

FCC Test Report

Product	Personal Computer
Machine Type / Model No.	IdeaCentre A540-24ICB
FCC ID.	A5MA540-24ICBWC

Applicant	Lenovo (Beijing) Ltd.
Address	201-H2-6, Floor 2, Building 2, No.6 Shangdi West Road, Haidian District, Beijing, China 100085

Date of Receipt	May. 08, 2019
Issued Date	Jun. 20, 2019
Report No.	1950111R-RFUSP20V00
Report Version	V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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Test Report

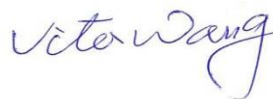
Issued Date: Jun. 20, 2019

Report No.: 1950111R-RFUSP20V00



Product	Personal Computer
Applicant	Lenovo (Beijing) Ltd.
Address	201-H2-6, Floor 2, Building 2, No.6 Shangdi West Road, Haidian District, Beijing, China 100085
Manufacturer	1.Asia Vital Components (Dongguan) Co., Ltd. 2.Lenovo Centro Tecnologico S DE RL DE CV
Machine Type / Model No.	IdeaCentre A540-24ICB
FCC ID.	A5MA540-24ICBWC
EUT Rated Voltage	AC 110-240V, 50-60Hz
EUT Test Voltage	AC 110V, 50Hz
Trade Name	Lenovo
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2018 ANSI C63.4: 2014, ANSI C63.10: 2013
Test Result	Complied

Documented By :



(Adm. Specialist / Vita wang)

Tested By :



(Engineer / Anson lu)

Approved By :



(Director / Vincent Lin)

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1. GENERAL INFORMATION

1.1. EUT Description

Product	Personal Computer
Trade Name	Lenovo
Machine Type / Model No.	IdeaCentre A540-24ICB
FCC ID.	A5MA540-24ICBWC
Frequency Range	110~145kHz
Type of Modulation	ASK Modulation
Type of antenna	Coil Antenna
Mouse	MFR: Lenovo, M/N: MORFL1L
Keyboard	MFR: Lenovo, M/N: KBRF5C71
ODD	MFR: Lenovo, M/N: PL DA -8AESH
USB Cable	Non-Shielded, 0.45m
Power Adapter	MFR: Lenovo, M/N: ADP-120TH B Input: AC 100-240V, 50-60Hz, 2A Output: 20V $\overline{=}$ 6A Cable In: Non-shielded, 1.05m. Cable Out: Non-shielded, 1.90m.

Frequency of Channel:

Channel	Frequency
Channel 1:	126.3kHz

Note:

1. The EUT is a Personal Computer with a built-in 110~145kHz transceiver.
2. These tests were radiated on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.209
3. Only the higher Fundamental Radiated Emission channel was tested and recorded in this report.

Test Mode	Mode 1: Transmit 5V Mode 2: Transmit 12V
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1.3. Test System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

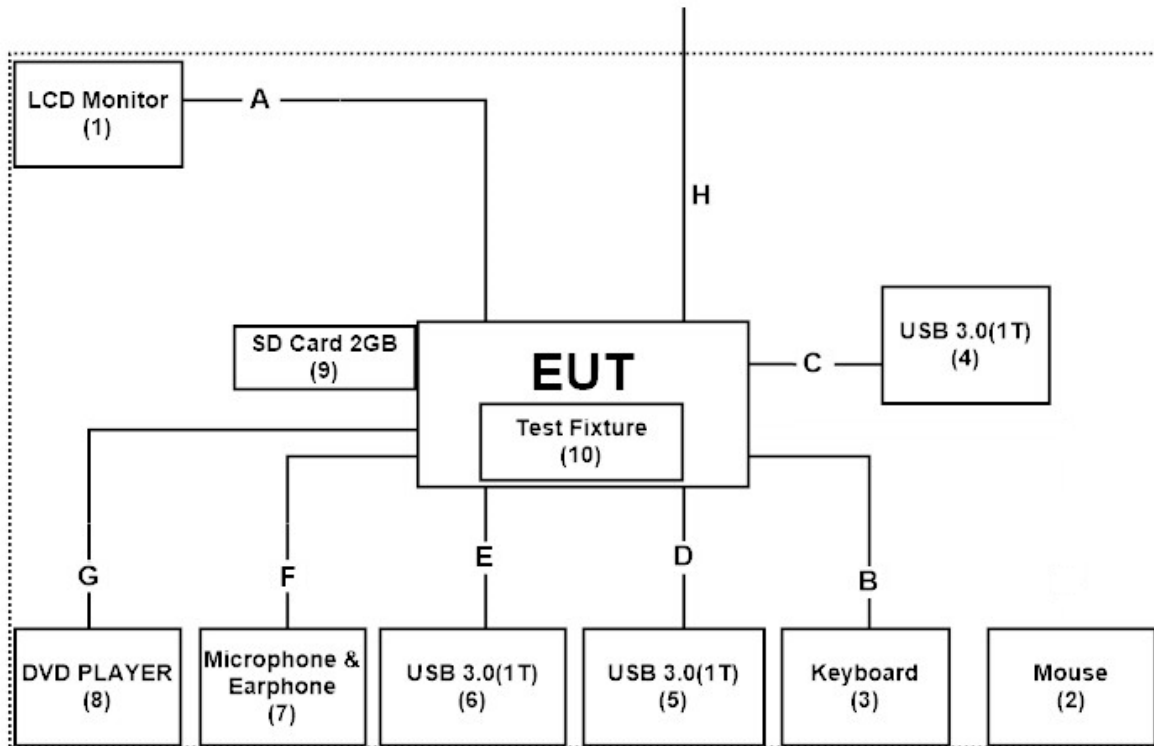
Product	Manufacturer	Model No.	Serial No.	Power Cord
1 LCD Monitor	ASUS	VS229HA	F4LMQS135395	Non-Shielded, 1.8m
2 Mouse	Lenovo	MORFL1L	N/A	N/A
3 Keyboard	Lenovo	KBRF5C71	N/A	N/A
4 USB 3.0(1T)	Transcend	TS1TSJ25M3	C13890-3746	N/A
5 USB 3.0(1T)	Transcend	TS1TSJ25M3	C13890-3746	N/A
6 USB 3.0(1T)	Transcend	TS1TSJ25M3	C13890-3746	N/A
7 Microphone & Earphone	Ergotech	ET-E201	N/A	N/A
8 DVD PLAYER	Pioneer	DV-600AV	GJKD006378LS	N/A
9 SD Card 2GB	Transcend	BE1014314401G	3430631 8398	N/A
10 Test Fixture	ASUS	N/A	N/A	N/A

Note:

1. The Test Fixture is a cement resistor(30W5Ω).

Signal Cable Type	Signal cable Description
A HDMI Cable	Non-shielded, 1.8m
B USB Cable	Non-shielded, 1.2m
C USB Cable	Non-shielded, 0.4m
D USB Cable	Non-shielded, 0.4m
E USB Cable	Non-shielded, 0.4m
F Signal Cable	Non-shielded, 1.65m
G HDMI Cable	Non-shielded, 1.8m
H Network Cable	Non-shielded, 1.65m

1.4. Configuration of Test System



1.5. EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.4
- (2) Turn on the power of all equipment.
- (3) Start the continuous transmitter.
- (4) Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

The related certificate for our laboratories about the test site and management system can be downloaded from DEKRA Testing and Certification Co., Ltd. Web Site:

<http://www.dekra.com.tw/english/about/certificates.aspx?bval=5>

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site: http://www.dekra.com.tw/index_en

Site Description: Accredited by TAF
 Accredited Number: 3023

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FCC Accreditation Number: TW3023

1.7. List of Test Equipment

For Conducted measurements /CB3/SR8

	Equipment	Manufacturer	Model No.	Serial No.	Cali. Date	Due. Date
	Temperature Chamber	WIT GROUP	TH-1S-B	EQ-201-00146	2019/02/12	2020/02/11
X	Spectrum Analyzer	Agilent	N9010A	MY48030495	2018/10/13	2019/10/12
	Peak Power Analyzer	Keysight	8990B	MY51000410	2018/08/01	2019/07/31
	Wideband Power Sensor	Keysight	N1923A	MY56080003	2018/07/25	2019/07/24
	Wideband Power Sensor	Keysight	N1923A	MY56080004	2018/07/25	2019/07/24
X	EMI Test Receiver	R&S	ESCS 30	100369	2018/11/07	2019/11/06
X	LISN	R&S	ESH3-Z5	836679/017	2019/02/09	2020/02/08
X	LISN	R&S	ENV216	100097	2019/02/09	2020/02/08
X	Coaxial Cable	DEKRA	RG 400	LC018-RG	2018/06/21	2019/06/20

For Radiated measurements /Site3/CB8

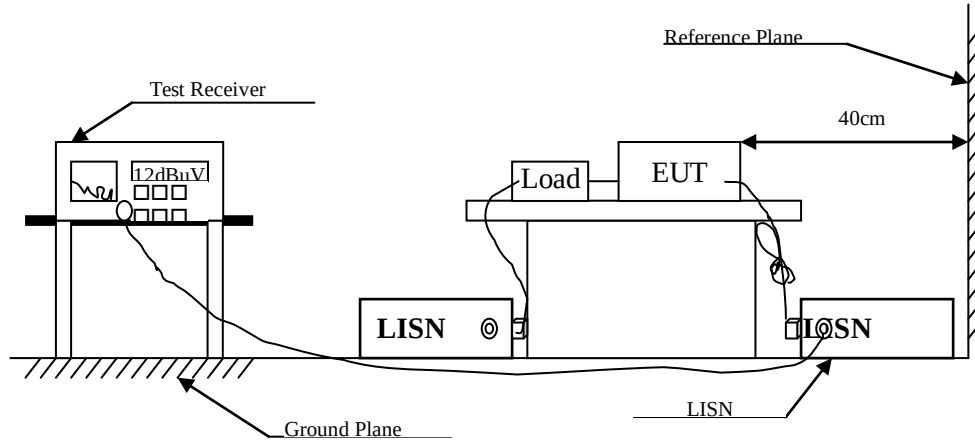
	Equipment	Manufacturer	Model No.	Serial No.	Cali. Date	Due. Date
X	Spectrum Analyzer	R&S	FSP40	100170	2019/03/12	2020/03/11
X	Loop Antenna	Teseq	HLA6121	37133	2017/10/13	2019/10/12
X	Bilog Antenna	Schaffner Chase	CBL6112B	2707	2018/06/24	2019/06/23
X	Coaxial Cable	DEKRA	RG 214	LC003-RG	2019/06/14	2020/06/13
X	Pre-Amplifier	Jet-Power	JPA-10M1G33	170101000330010	2019/06/14	2020/06/13
	Horn Antenna	ETS-Lindgren	3117	00135205	2019/05/03	2020/05/02
	Horn Antenna	SCHWARZBECK	9120D	576	2018/11/30	2019/11/29
	Pre-Amplifier	EMCI	EMC012630SE	980210	2019/04/10	2020/04/09
	Horn Antenna	Com-Power	AH-840	101043	2019/01/09	2020/01/08
	Amplifier + Cable	EMCI	EMC184045SE	980370	2019/03/21	2020/03/20
	Filter	MICRO-TRONICS	BRM50702	G270	2018/08/06	2019/08/05
	Filter	MICRO-TRONICS	BRM50716	G196	2018/08/06	2019/08/05

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked with "X" are used to measure the final test results.
3. Test Software version :QuiTek EMI 2.0 V2.1.113.

2. Conducted Emission

2.1. Test Setup



2.2. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit		
Frequency MHz	Limits	
	QP	AV
0.15 - 0.50	66-56 _(註)	56-46 _(註)
0.50-5.0	56	46
5.0 - 30	60	50

2.3. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.4. Uncertainty

± 2.26 dB

2.5. Test Result of Conducted Emission

Product : Personal Computer
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 1: Transmit 5V
 Test Date : 2019/06/18

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
LINE 1					
Quasi-Peak					
0.154	9.656	35.140	44.796	-21.090	65.886
0.326	9.663	33.720	43.383	-17.588	60.971
0.744	9.680	32.200	41.880	-14.120	56.000
1.826	9.734	31.600	41.334	-14.666	56.000
11.990	10.013	27.180	37.193	-22.807	60.000
14.701	10.067	20.000	30.067	-29.933	60.000
Average					
0.154	9.656	15.930	25.586	-30.300	55.886
0.326	9.663	17.720	27.383	-23.588	50.971
0.744	9.680	22.180	31.860	-14.140	46.000
1.826	9.734	18.350	28.084	-17.916	46.000
11.990	10.013	14.110	24.123	-25.877	50.000
14.701	10.067	10.300	20.367	-29.633	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Personal Computer
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 1: Transmit 5V
 Test Date : 2019/06/18

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV	dB	dBuV
LINE 2					
Quasi-Peak					
0.314	9.692	34.840	44.532	-16.782	61.314
0.416	9.697	23.500	33.197	-25.203	58.400
0.865	9.725	23.160	32.885	-23.115	56.000
1.986	9.781	25.720	35.501	-20.499	56.000
10.908	10.078	27.820	37.898	-22.102	60.000
16.545	10.238	20.460	30.699	-29.301	60.000
Average					
0.314	9.692	25.570	35.262	-16.052	51.314
0.416	9.697	8.700	18.397	-30.003	48.400
0.865	9.725	4.010	13.735	-32.265	46.000
1.986	9.781	7.950	17.731	-28.269	46.000
10.908	10.078	15.930	26.008	-23.992	50.000
16.545	10.238	12.150	22.389	-27.611	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Personal Computer
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 2: Transmit 12V
 Test Date : 2019/06/18

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV	dB	dBuV
LINE 1					
Quasi-Peak					
0.166	9.656	32.680	42.336	-23.207	65.543
0.306	9.662	33.380	43.042	-18.501	61.543
0.533	9.671	32.640	42.311	-13.689	56.000
1.162	9.697	32.200	41.897	-14.103	56.000
2.275	9.752	25.840	35.592	-20.408	56.000
11.029	10.000	27.760	37.760	-22.240	60.000
Average					
0.166	9.656	17.820	27.476	-28.067	55.543
0.306	9.662	16.640	26.302	-25.241	51.543
0.533	9.671	30.470	40.141	-5.859	46.000
1.162	9.697	20.340	30.037	-15.963	46.000
2.275	9.752	13.070	22.822	-23.178	46.000
11.029	10.000	19.090	29.090	-20.910	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Personal Computer
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 2: Transmit 12V
 Test Date : 2019/06/18

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV	dB	dBuV
LINE 2					
Quasi-Peak					
0.197	9.688	30.240	39.928	-24.729	64.657
0.267	9.691	34.940	44.631	-18.026	62.657
0.541	9.702	24.060	33.762	-22.238	56.000
0.748	9.720	26.420	36.140	-19.860	56.000
1.599	9.765	26.720	36.485	-19.515	56.000
11.482	10.096	29.180	39.276	-20.724	60.000
Average					
0.197	9.688	1.410	11.098	-43.559	54.657
0.267	9.691	29.580	39.271	-13.386	52.657
0.541	9.702	9.740	19.442	-26.558	46.000
0.748	9.720	21.550	31.270	-14.730	46.000
1.599	9.765	15.650	25.415	-20.585	46.000
11.482	10.096	17.720	27.816	-22.184	50.000

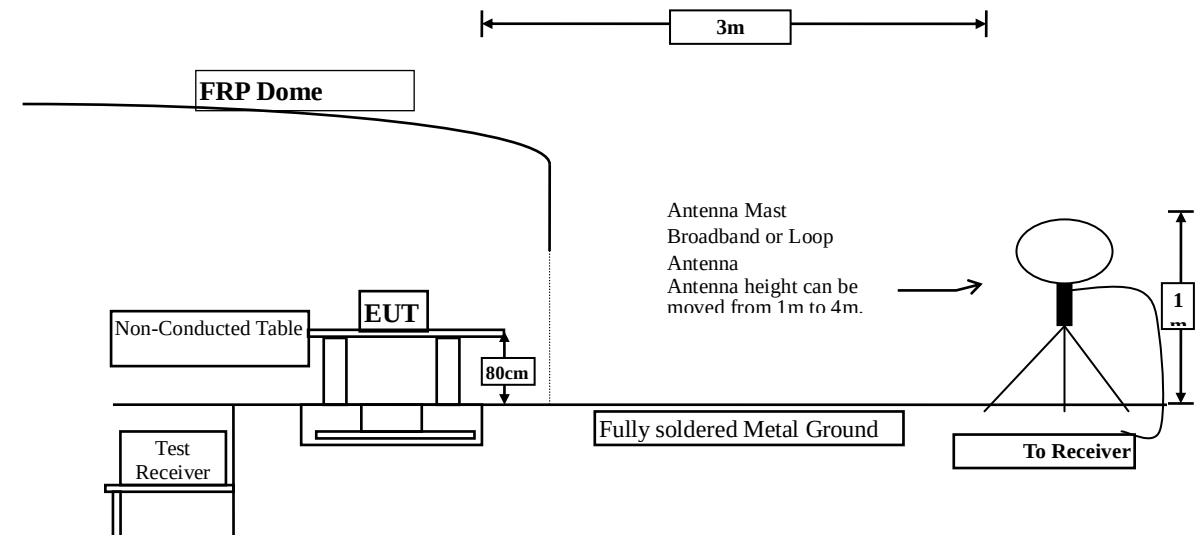
Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

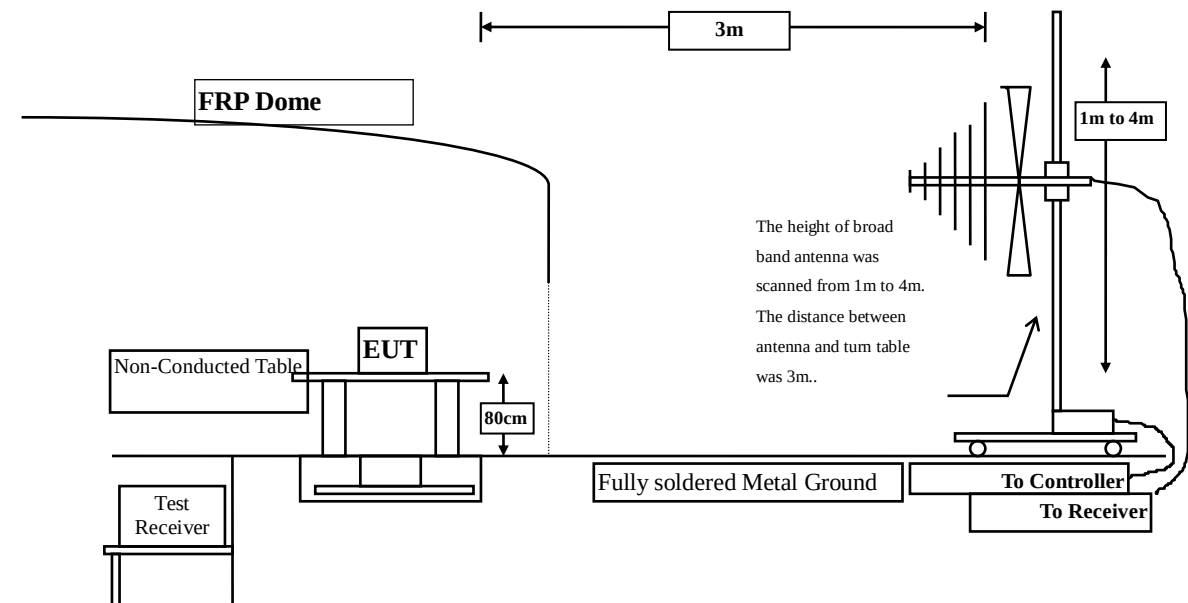
3. Radiated Emission

3.1. Test Setup

Under 30MHz Test Setup



Radiated Emission Below 1GHz



3.2. Limits

FCC Part 15 Subpart B Paragraph 15.209 Limits		
Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 - 0.490	2,400/F(kHz)	300
0.490– 1.705	24,000/F(kHz)	30
1.705 – 30	30	30
30 – 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Remarks :

1. RF Voltage (dBuV) = $20 \log$ RF Voltage (uV)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3.3. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested compliance to FCC 47CFR 15.209 requirements.

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

The resolution bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz. Radiated emission measurements below 1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna.

The worst radiated emission is measured on the Final Measurement.

The measurement frequency range from 9kHz - 10th Harmonic of fundamental was investigated.

3.4. Uncertainty

± 4.08 dB above 1GHz

± 4.22 dB below 1GHz

3.5. Test Result of Radiated Emission

Product : Personal Computer
Test Item : Fundamental Radiated Emission
Test Site : No.3 OATS
Test date : 2019/05/30
Test Mode : Mode 1: Transmit 5V

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
0.1263	19.992	63.600	83.592	-21.984	105.576
Vertical					
0.1263	19.992	61.600	81.592	-23.984	105.576

Note:

1. Limit=25.576 dBuV/300m + 40*Log (300(m)/3(m))= 105.576dBuV/3m (Average).
2. Measurement Level = Reading Level + Correct Factor.

Product : Personal Computer
Test Item : Fundamental Radiated Emission
Test Site : No.3 OATS
Test date : 2019/05/30
Test Mode : Mode 2: Transmit 12V

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
0.1263	19.992	63.600	83.592	-21.984	105.576
Vertical					
0.1263	19.992	61.700	81.692	-23.884	105.576

Note:

1. Limit=25.576 dBuV/300m + 40*Log (300(m)/3(m))= 105.576dBuV/3m (Average).
2. Measurement Level = Reading Level + Correct Factor.

Product : Personal Computer
 Test Item : Fundamental Radiated Emission
 Test Site : No.3 OATS
 Test date : 2019/06/14
 Test Mode : Mode 1: Transmit 5V (9k-30M)

9kHz~30MHz

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Quasi-Peak					
Horizontal					
0.253	19.927	18.800	38.727	-72.180	110.907
0.379	19.900	37.500	57.400	-44.412	101.812
0.505	19.900	4.900	24.800	-48.867	73.667
0.632	19.900	27.600	47.500	-25.039	72.539
0.758	19.900	2.100	22.000	-49.421	71.421
0.884	19.900	20.600	40.500	-29.802	70.302
1.010	19.896	1.200	21.096	-48.088	69.184
1.137	19.864	14.800	34.664	-19.336	54.000
1.263	19.832	1.500	21.332	-32.668	54.000
Vertical					
0.253	19.927	17.500	37.427	-73.480	110.907
0.379	19.900	35.600	55.500	-46.312	101.812
0.505	19.900	3.700	23.600	-50.067	73.667
0.632	19.900	25.500	45.400	-27.139	72.539
0.758	19.900	1.800	21.700	-49.721	71.421
0.884	19.900	18.600	38.500	-31.802	70.302
1.010	19.896	1.100	20.996	-48.188	69.184
1.137	19.864	12.900	32.764	-35.293	68.057
1.263	19.832	0.900	20.732	-46.206	66.938

Note:

1. All Readings below 1GHz are Quasi-Peak.
2. Measurement Level = Reading Level + Correct Factor.
3. " " means the worst emission level.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Personal Computer
 Test Item : Fundamental Radiated Emission
 Test Site : No.3 OATS
 Test date : 2019/06/03
 Test Mode : Mode 1: Transmit 5V (30M-1G)

30MHz ~1GHz

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Quasi-Peak					
Horizontal					
210.420	-1.927	36.581	34.654	-8.846	43.500
299.660	1.630	36.908	38.538	-7.462	46.000
445.160	5.686	34.138	39.824	-6.176	46.000
497.540	6.660	30.766	37.426	-8.574	46.000
741.980	10.075	20.300	30.375	-15.625	46.000
897.180	12.088	29.883	41.971	-4.029	46.000
Vertical					
214.300	-1.942	33.512	31.570	-11.930	43.500
299.660	1.630	36.150	37.780	-8.220	46.000
394.720	4.808	30.870	35.678	-10.322	46.000
497.540	6.660	34.010	40.670	-5.330	46.000
741.980	10.075	19.700	29.775	-16.225	46.000
891.360	12.048	26.285	38.333	-7.667	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak.
2. Measurement Level = Reading Level + Correct Factor.
3. "■" means the worst emission level.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Personal Computer
 Test Item : Fundamental Radiated Emission
 Test Site : No.3 OATS
 Test date : 2019/06/14
 Test Mode : Mode 2: Transmit 12V (9k-30M)

9kHz~30MHz

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Quasi-Peak					
Horizontal					
0.253	19.927	18.800	38.727	-72.180	110.907
0.379	19.900	37.500	57.400	-44.412	101.812
0.505	19.900	4.900	24.800	-48.867	73.667
0.632	19.900	27.600	47.500	-25.039	72.539
0.758	19.900	2.100	22.000	-49.421	71.421
0.884	19.900	20.600	40.500	-29.802	70.302
1.010	19.896	1.200	21.096	-48.088	69.184
1.137	19.864	14.800	34.664	-33.393	68.057
1.263	19.832	1.500	21.332	-45.606	66.938
Vertical					
0.253	19.927	17.500	37.427	-73.480	110.907
0.379	19.900	35.600	55.500	-46.312	101.812
0.505	19.900	3.800	23.700	-49.967	73.667
0.632	19.900	25.500	45.400	-27.139	72.539
0.758	19.900	1.900	21.800	-49.621	71.421
0.884	19.900	18.600	38.500	-31.802	70.302
1.010	19.896	0.900	20.796	-48.388	69.184
1.137	19.864	12.900	32.764	-35.293	68.057
1.263	19.832	0.800	20.632	-46.306	66.938

Note:

1. All Readings below 1GHz are Quasi-Peak.
2. Measurement Level = Reading Level + Correct Factor.
3. "■" means the worst emission level.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Personal Computer
 Test Item : Fundamental Radiated Emission
 Test Site : No.3 OATS
 Test date : 2019/06/03
 Test Mode : Mode 2: Transmit 12V (30M-1G)

30MHz ~1GHz

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Quasi-Peak					
Horizontal					
214.300	-1.942	35.611	33.669	-9.831	43.500
299.660	1.630	36.735	38.365	-7.635	46.000
445.160	5.686	31.708	37.394	-8.606	46.000
594.540	8.272	28.543	36.815	-9.185	46.000
741.980	10.075	31.172	41.247	-4.753	46.000
897.180	12.088	29.797	41.885	-4.115	46.000
Vertical					
214.300	-1.942	33.115	31.173	-12.327	43.500
299.660	1.630	36.240	37.870	-8.130	46.000
375.320	4.216	32.079	36.295	-9.705	46.000
499.480	6.683	33.357	40.040	-5.960	46.000
741.980	10.075	19.900	29.975	-16.025	46.000
901.060	12.124	27.680	39.804	-6.196	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak.
2. Measurement Level = Reading Level + Correct Factor.
3. “ ” means the worst emission level.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. EMI Reduction Method During Compliance Testing

No modification was made during testing.