

FCC Test Report

Report No: WD-RF-R-190342-P0

Product Name : Time Clock
Model Name : NT8000X-XX(X can be 0~9 or a~z or A~Z or blank)
Series Model Name : NT8000Y-YY(Y can be 0~9 or a~z or A~Z or blank)
FCC ID : 2ASPA NOVATIME-EM
Applicant : NOVAtime Technology, Inc.
Received Date : Feb. 18, 2019
Tested Date : May. 09, 2019 ~ Jun. 26, 2019
Applicable Standard : 47 CFR FCC Part 15, Subpart C (Section 15.31)
47 CFR FCC Part 2, Subpart J (Section 2.947(f))
ANSI C63.10 : 2013



Wendell Industrial Co., Ltd
Wendell Electrical Testing Lab.

Caution:

This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment.

Please note that the measurement uncertainty are provided for informational purpose only and are not used in determining the Pass/Fail results.

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Test Report

Issued Date: June 26, 2019

Project No.: 19Q021808

Product Name	Time Clock
Trade Name	NOVAtime Technology, Inc.
Model Name	NT8000X-XX(X can be 0~9 or a~z or A~Z or blank)
Series Model Name	NT8000Y-YY(Y can be 0~9 or a~z or A~Z or blank)
FCC ID	2ASPANOVATIME-EM
Applicant	NOVAtime Technology, Inc.
Manufacturer	unitech electronics co., ltd.
EUT Rated Voltage	AC 100 ~ 240V / 50 or 60Hz 、PoE
EUT Test Voltage	AC 120V / 60Hz
EUT Supports Radios Application	WLAN 802.11a/b/g WLAN 802.11n (HT20/HT40) Bluetooth BR/EDR/LE RFID
Applicable Standard	47 CFR FCC Part 15, Subpart C (Section 15.31) 47 CFR FCC Part 2, Subpart J (Section 2.947(f)) ANSI C63.10 : 2013
Test Result	Complied

Documented :



(Specialist / Emma Lu)

Technical Engineer :



(Deputy Section Manager / Jack Chang)

Approved :



(Project Manager / Gary Wu)

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Document Revision History

Report No.	Issue date	Description
WD-RF-R-190342-P0	June 26, 2019	Initial report

Summary of Test Result

Ref. Std. Clause	Test Items	Result
15.247(d)	Radiated Spurious Emission	Pass
15.207	AC Conducted Emission	Pass

1 Generation Information

1.1 Applicant

NOVAtime Technology, Inc.
9680 Haven Avenue, Suite #200, Rancho Cucamonga, CA 91730

1.2 Manufacturer

unitech electronics co., ltd.
5Fl., No.136, Lane 235, Pao-Chiao Rd., Hsin-Tien Dist, New Taipei City, Taiwan 231, R.O.C.

1.3 Description of Equipment under Test

Product Name	Time Clock
Model No.	NT8000X-XX(X can be 0~9 or a~z or A~Z or blank)
Series Model No.	NT8000Y-YY(Y can be 0~9 or a~z or A~Z or blank)
FCC ID	2ASPA NOVATIME-EM
Frequency Range	802.11b/g/n-20MHz: 2412~2462MHz 802.11n-40MHz: 2422~2452MHz 802.11a/n-20MHz: 5180-5320MHz, 5500-5700MHz, 5745-5825MHz 802.11n-40MHz: 5190-5310, 5510-5670MHz, 5755-5795MHz Bluetooth: 2402-2480MHz RFID: 125kHz
Antenna Information	Refer to the table "Antenna List"
EUT Supports Radios Application	WLAN 802.11a/b/g WLAN 802.11n (HT20/HT40) Bluetooth BR/EDR/LE RFID
EUT Rated Voltage	AC 100 ~ 240V / 50 or 60Hz 、PoE
EUT Test Voltage	AC 120V / 60Hz

The EUT uses following adapter.

Trade Name	ENG Electric co., Ltd.
Model No.	6A-601DB12
Input Power	AC 100 ~ 240V / 50 or 60Hz 、PoE
Output Power	DC 12V/5.0A
Power Line	Non-shielded, 1 Core, 1.5m

Antenna List

No.	Manufacturer	Model No.	Antenna Type	Peak Gain
1	JOYMAX	TBF-UT01MPXX-752	Dipole	5 dBi for 2.4~2.5 GHz 6 dBi for 5.15 ~ 5.25 GHz 6 dBi for 5.25 ~ 5.35 GHz 6 dBi for 5.47 ~ 5.725 GHz 6 dBi for 5.725 ~ 5.85 GHz
2	Microprogram	3DAT-8000-LL001	Coil Antenna	--

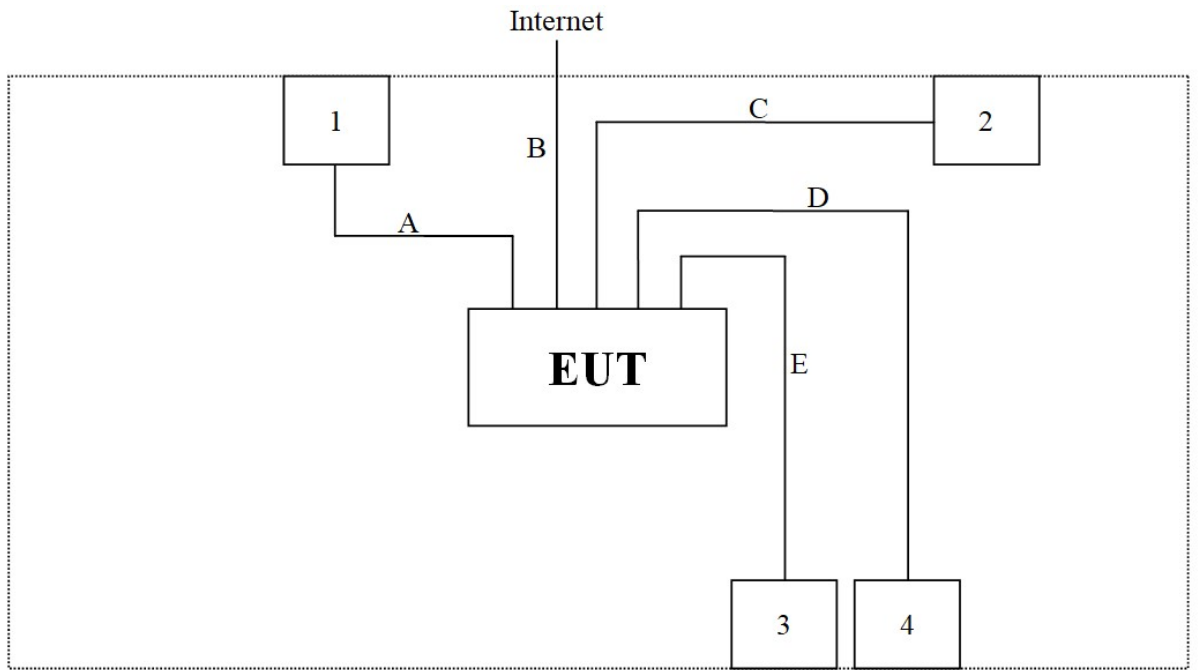
1.4 Test Mode Applicability

1. These tests were performed on equipment samples to demonstrate compliance with the 15.31(k) chapter simultaneous launch requirements.
2. Select the combination of the highest power transmission mode, only the worst case is shown in the report.
3. The worst case was found when positioned on X axis for radiated emission. Following test modes were selected for the final test, and the final worst case is marked in boldface and recorded in the report.

Test Mode

Mode 1: Bluetooth LE + WIFI 5GHz + 125KHz

1.5 Configuration of Tested System



Test Table

1.6 EUT Exercise Software

1. Setup the EUT as shown in Section 1.6
2. Configure the test mode, the test channel, and the data rate.
3. Press “OK” to start the continuous transmit.
4. Verify that the EUT works properly.

1.7 Tested System Details

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

No.	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Adapter	ENG Electric co., Ltd.	6A-601DB12	N/A	Non-shielded, 1 Core, 1.5m
2	Notebook PC	acer	N16Q1	NXVF4TA023742254147600	Non-shielded, 1 Core, 0.8m
3	USB Keyboard	Lemel	5105U	G6450015686	Non-shielded, Non-Core, 1.5m
4	USB Mouse	Lemel	M83	201707K31002387	Non-shielded, Non-Core, 1.5m

No.	Signal Cable Type	Signal cable Description
A	Power Cable	Non-shielded, 1 Core, 1.5m
B	LAN Cable	Non-shielded, Non-Core, 10m
C	USB Cable	Shielded, Non-Core, 1m
D	USB Mouse	Non-shielded, Non-Core, 1.5m
E	USB Keyboard	Non-shielded, Non-Core, 1.5m

1.8 Test Facility

Items	Required (IEC 60068-1)	Actual
Temperature (°C)	15-35	25
Humidity (% RH)	25-75	65
Barometric pressure (mbar)	860-1060	1001

Description: Accredited by TAF

Accredited Number: 2965

Issued by: Wendell Industrial Co., Ltd

Lab Address: 6F/6F-1, No.188, Baoqiao Rd., Xindian Dist.,
New Taipei City 23145, Taiwan R.O.C

Test Lab: Wendell Electrical Testing Lab.

Test Location: No.67-9, Shimen Rd., Tucheng Dist.,
New Taipei City 236, Taiwan R.O.C

FCC Accreditation Number: TW2965

FCC Designation Number: TW1118

1.9 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence (level based on a coverage factor K=2)

Measurement Project	Measuring Range	Expended Uncertainty
AC Conducted Emission	0.150 ~ 30 MHz	2.9 dB
Radiated Emission	0.009 ~ 30 MHz	3.8 dB
	30 ~ 1000 MHz	3.5 dB
	1000 ~ 18000 MHz	3.7 dB
	18000 ~ 40000 MHz	3.8 dB
Unwanted Emission Strength Measurement	1000 ~ 6000 MHz	2.5 dB
RF Power, Conducted	1000 ~ 6000 MHz	1.3 dB
Occupied Bandwidth	1000 ~ 6000 MHz	3 %
Power Density	1000 ~ 6000 MHz	1.4 dB
Duty Cycle	1000 ~ 6000 MHz	2.4 %
DC Power Supply	0.5 ~ 30 V	1.7 %
Temperature	15 ~ 30 °C	0.8 °C
Humidity	40 ~ 80 %	3.8 %

Note: Please note that the measurement uncertainty are provided for informational purpose only and are not used in determining the Pass/Fail results.

1.10 List of Test Equipment

For AC Conduction measurements / Conducted Room

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
✓	EMI Test Receiver	R&S	ESR3	102309	2019/5/16	2020/5/15
✓	2-Line V-Network LISN	R&S	ENV216	101185	2019/5/20	2020/5/19
✓	LISN	SCHWARZBECK	NSLK 8127RC	05028	2019/5/20	2020/5/19
✓	Transient Limiter	EM Electronics Corporation	EM-7600	857	2019/5/16	2020/5/15
✓	50ohm Cable	EMCI	EMCCFD300-BM-BM-5000	170613	2019/5/16	2020/5/15
✓	50 ohm terminal impedance	HUBER+SUHNER	50 ohm terminal impedance	CT-1-109-1	2019/5/13	2020/5/12

Remark:

1. All equipments are calibrated every one year.
2. The test instruments marked with “✓” are used to measure the final test results.
3. Test Software version: FARAD EZ-EMC Ver.EMC-CON 3A1

For Radiated measurements / 9x6x6 Semi Anechoic Room

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
✓ Spectrum Analyzer	Keysight	N9010A	MY52220228	2019/4/25	2020/4/24
✓ EMI Receiver	Keysight	N9038A	MY51210173	2018/12/5	2019/12/4
✓ Pre-Amplifier	EMEC	EMC330	060668	2018/10/16	2019/10/15
✓ Pre-Amplifier	EMCI	EMC051845SE	980525	2018/10/11	2019/10/10
✓ Pre-Amplifier	EMCI	EMC184045SE	980515	2018/10/10	2019/10/9
✓ Pre-Amplifier	EMEC	EM01G18G	060648	2018/10/11	2019/10/10
✓ Cable	EMEC	EM-CB400	105060103	2018/10/18	2019/10/17
✓ Cable	EMEC	EM-CB400	105060102	2018/10/18	2019/10/17
✓ Cable	EMEC	EM-CB400	105060101	2018/10/18	2019/10/17
✓ Cable	EMCI	EMC102-KM-KM-600	170637	2018/10/10	2019/10/9
✓ Cable	HUBER+SUHNER	SF102	MY2751/2	2018/10/10	2019/10/9
✓ Cable	EMCI	EMC102-KM-KM-3000	170635	2018/10/10	2019/10/9
✓ Loop Antenna	EMCI	LPA600	277	2018/4/19	2020/4/18
✓ TRILOG super broad Antenna	Schwarzbeck	VULB 9168	VULB 9168-700 & 1421	2018/10/19	2019/10/18
✓ Horn Antenna	Schwarzbeck	BBHA 9120D	01557	2018/10/9	2019/10/8
✓ Horn Antenna	Schwarzbeck	BBHA 9170	703	2018/10/11	2019/10/10
✓ RF Filter	EMEC	BRF-2400-2500	002	2018/10/10	2019/10/9
RF Filter	EMEC	BRF-5150-5350	104	2018/10/10	2019/10/9
RF Filter	EMEC	BRF-5470-5725	092	2018/10/10	2019/10/9
RF Filter	EMEC	BRF-5725-5875	091	2018/10/10	2019/10/9
✓ RF Filter	EMEC	HPF-2800	002	2018/10/10	2019/10/9
RF Filter	EMEC	HPF-5850	059	2018/10/10	2019/10/9

Remark:

1. The test instruments marked with “✓” are used to measure the final test results.
2. Test Software version: FARAD EZ-EMC Ver.WD-03A1-1

2 Test Result

2.1 Spurious Emission Measurement

2.1.1 Limit

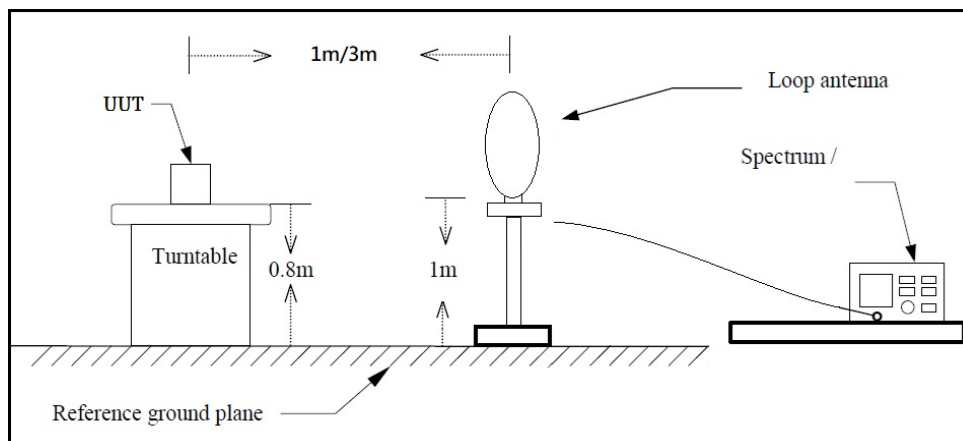
Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 – 0.490	$2400/F(\text{kHz})$	300
0.490 – 1.705	$24000/F(\text{kHz})$	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Remarks:

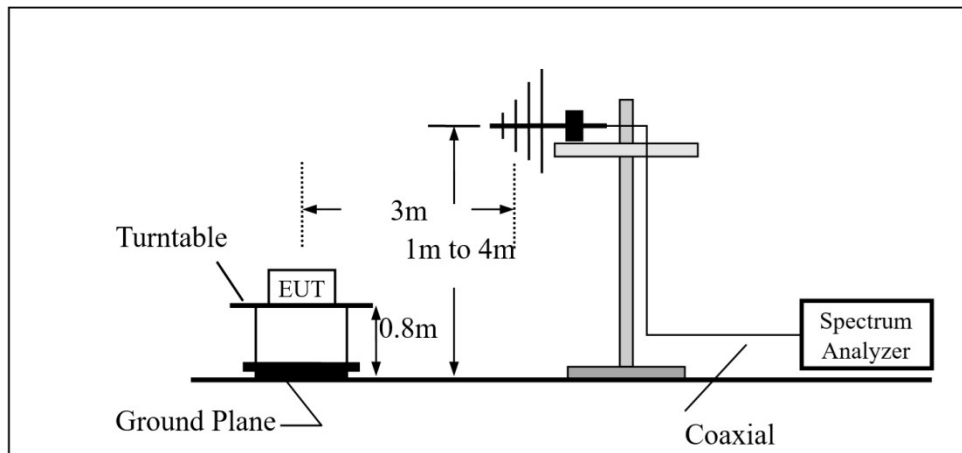
1. RF Voltage (dBuV) = $20 \log \text{RF Voltage}(\mu\text{V})$
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

2.1.2 Test Setup

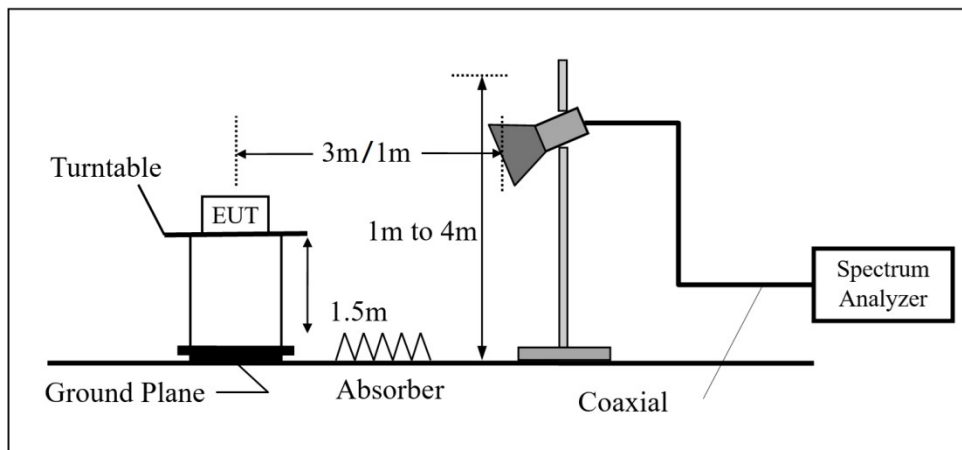
Below 30MHz



30MHz~1GHz



Above 1GHz



2.1.3 Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested according test procedure of KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

For Radiated emission below 30MHz

- (1) The EUT was placed on the top of a rotating table 0.8 meters above the ground in a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- (2) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- (3) Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- (4) For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- (5) The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

For Radiated emission Above 30MHz

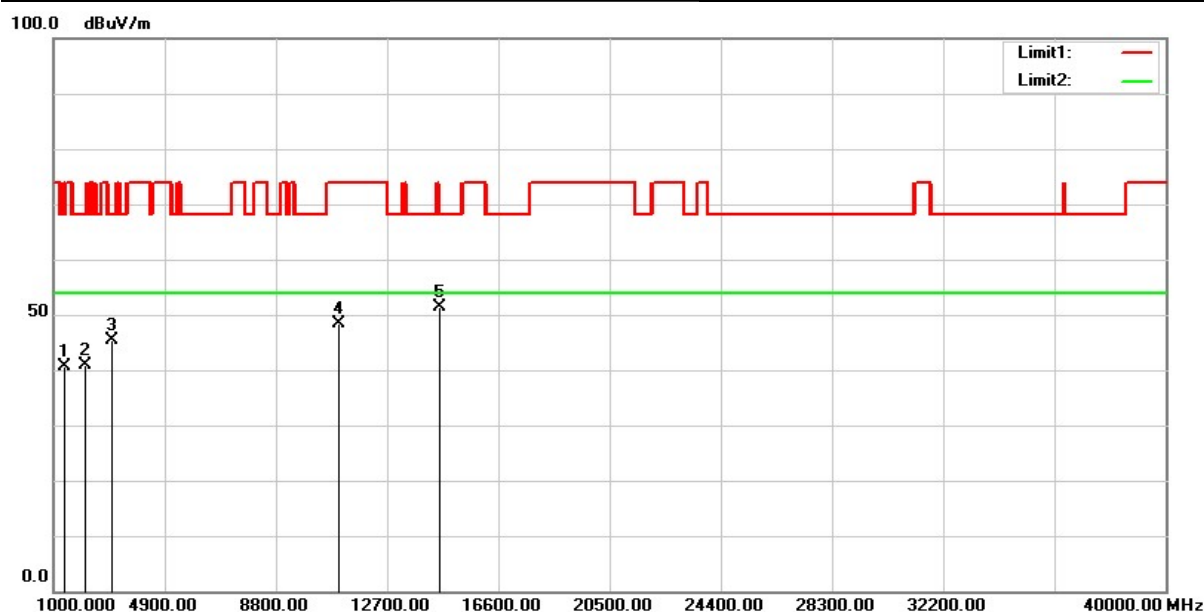
- (1) The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for the test. The table was rotated 360 degrees to determine the position of the highest radiation.
- (2) The EUT was set 3 meters away from the interference-receiving antenna, the height of the antenna is varied from 1 meter to 4 meters above the ground to determine the maximum value of the field strength.
- (3) Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- (4) For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- (5) The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- (6) The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets the average limit, measurement with the average detector is unnecessary.

2.1.4 Test Result of Radiated Spurious Emission Measurement

- (1) The radiation measurement frequency is 9kHz ~ 30MHz. The interference value of this frequency range is less than the limit value of 20 dB. It is considered that the background noise value is not recorded.
- (2) The following table shows the radiation measurement frequency from 30MHz to 40GHz, pre-scanning in the X, Y and Z axes. The worst case (X-axis) is documented in this report.

Above 1GHz Data

Test Mode :	Mode 1: Bluetooth LE + WIFI 5GHz + 125KHz	Test Date :	2019/06/24
Test Voltage :	AC 120V/60Hz	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %

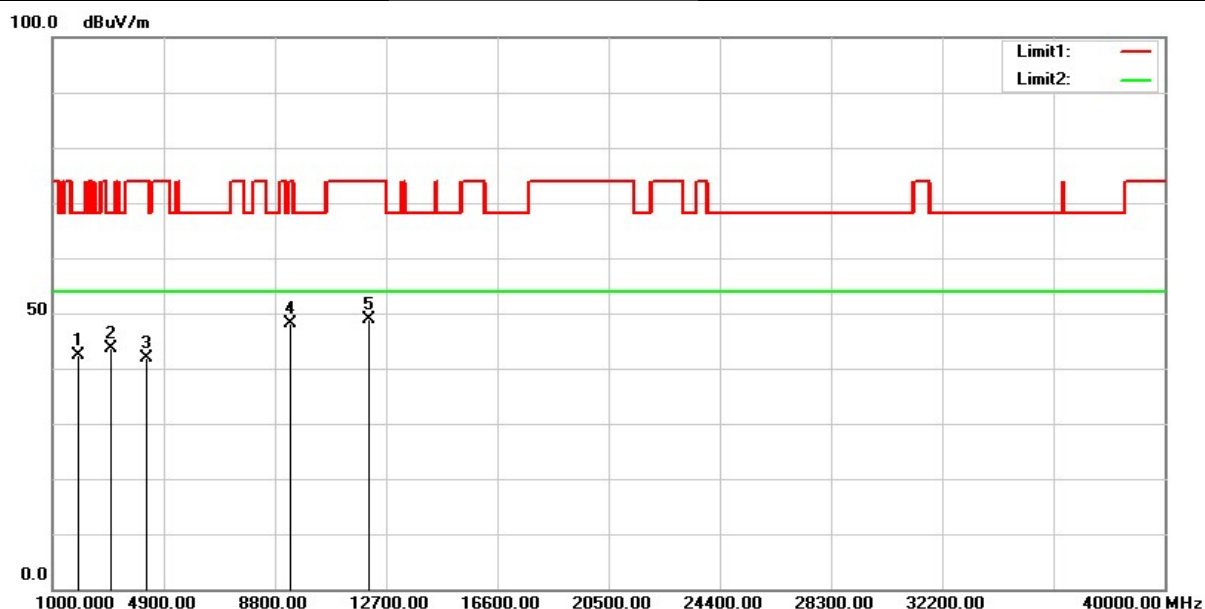


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1360.000	59.66	-18.99	40.67	74.00	-33.33	peak
2	2125.000	57.38	-16.56	40.82	68.20	-27.38	peak
3	2990.000	60.01	-14.57	45.44	68.20	-22.76	peak
4	11004.000	45.38	3.11	48.49	74.00	-25.51	peak
5	14496.000	42.73	8.64	51.37	74.00	-22.63	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 1: Bluetooth LE + WIFI 5GHz + 125KHz	Test Date :	2019/06/24
Test Voltage :	AC 120V/60Hz	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1895.000	61.35	-18.85	42.50	68.20	-25.70	peak
2	3000.000	58.15	-14.56	43.59	68.20	-24.61	peak
3	4250.000	53.69	-11.78	41.91	74.00	-32.09	peak
4	9336.000	47.87	0.36	48.23	74.00	-25.77	peak
5	12072.000	45.47	3.45	48.92	74.00	-25.08	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Below 1GHz Data

Test Mode :	Mode 1: Bluetooth LE + WIFI 5GHz + 125KHz	Test Date :	2019/06/20
Test Voltage :	AC 120V/60Hz	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	71.7100	50.30	-12.52	37.78	40.00	-2.22	QP
2	84.3200	52.66	-15.33	37.33	40.00	-2.67	QP
3	167.7400	46.43	-9.93	36.50	43.50	-7.00	QP
4	238.5500	50.94	-11.06	39.88	46.00	-6.12	QP
5	361.7400	49.54	-7.56	41.98	46.00	-4.02	QP
6	900.0900	41.66	2.11	43.77	46.00	-2.23	QP

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 1: Bluetooth LE + WIFI 5GHz + 125KHz	Test Date :	2019/06/20
Test Voltage :	AC 120V/60Hz	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	71.7100	51.32	-12.52	38.80	40.00	-1.20	QP
2	84.3200	52.98	-15.33	37.65	40.00	-2.35	QP
3	167.7400	45.58	-9.93	35.65	43.50	-7.85	QP
4	551.8600	42.54	-3.32	39.22	46.00	-6.78	QP
5	600.3600	43.00	-2.02	40.98	46.00	-5.02	QP
6	900.0900	41.49	2.11	43.60	46.00	-2.40	QP

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

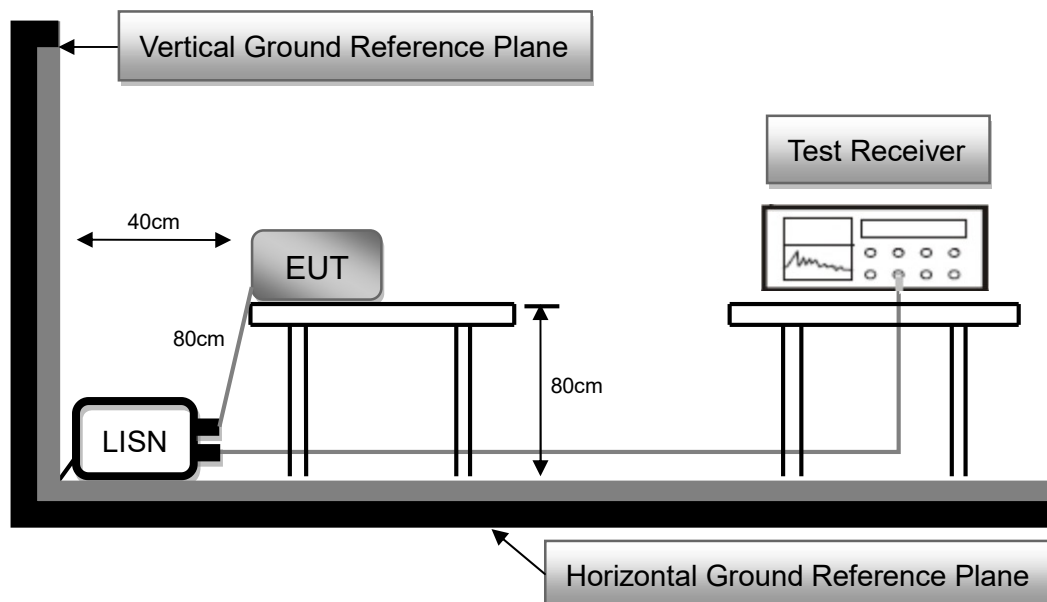
2.2 AC Conducted Emissions Measurement

2.2.1 Limit

Frequency (MHz)	FCC Part 15 Subpart C Paragraph 15.207 (dBμV) Limit	
	Quasi-peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.50 to 5.0	56	46
5.0 to 30.0	60	50

*Decreases with the logarithm of the frequency

2.2.2 Test Setup

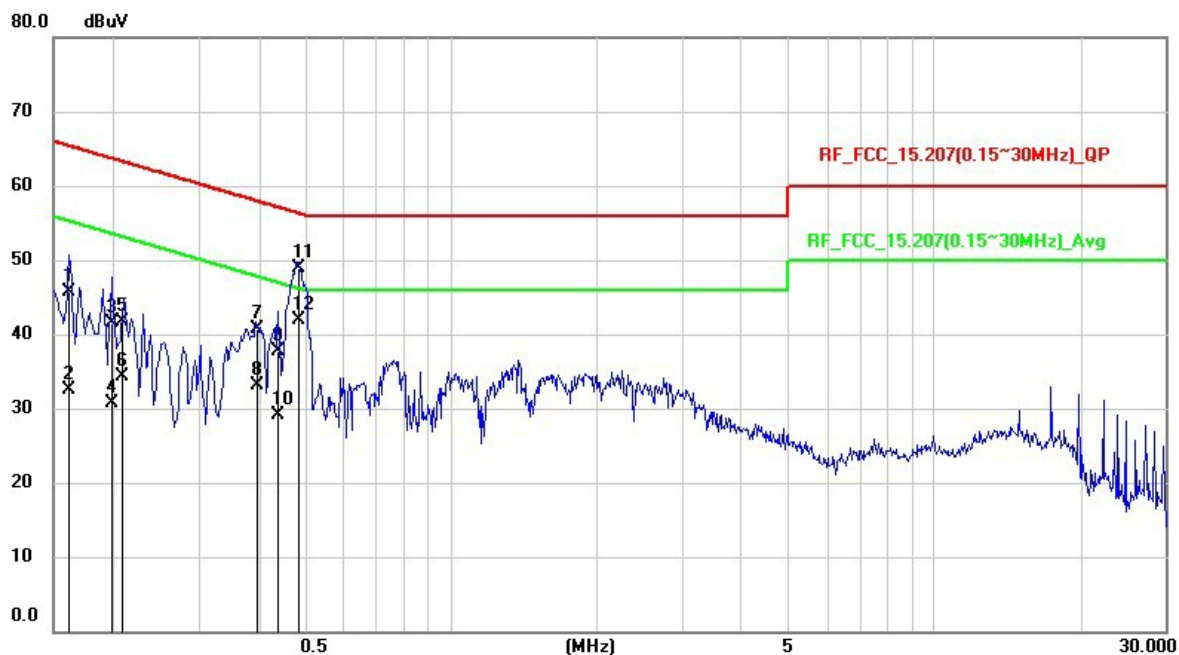


2.2.3 Test Procedure

1. The EUT was placed 0.8 meter height wooden table from the horizontal ground plane with EUT being connected to power source through a line impedance stabilization network (LISN). The LISN at least be 80 cm from nearest chassis of EUT.
2. The line impedance stabilization network (LISN) provides 50 ohm/50uH of coupling impedance for the measuring instrument. All other support equipments powered from additional LISN(s).
3. Interrelating cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle. All I/O cables were positioned to simulate typical usage.
4. All I/O cables that are not connected to a peripheral shall be bundle in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
5. The EMI test receiver connected to LISN powering the EUT. The actual test configuration, please refer to EUT test photos.
6. The receiver scanned from 150kHz to 30MHz for emissions in each of test modes. A scan was taken on both power lines, Line and Neutral, recording at least six highest emissions.
7. The EUT and cable configuration of the above highest emission levels were recorded. The test data of the worst case was recorded.

2.2.4 Test Result

Test Voltage :	120Vac, 60Hz	Frequency Range:	0.15-30 MHz
Test Mode :	Mode 1: Bluetooth LE + WIFI 5GHz + 125KHz	6dB Bandwidth :	9 kHz
Test Date :	2019/06/05	Phase :	L
Temperature :	25°C	Humidity :	65 %

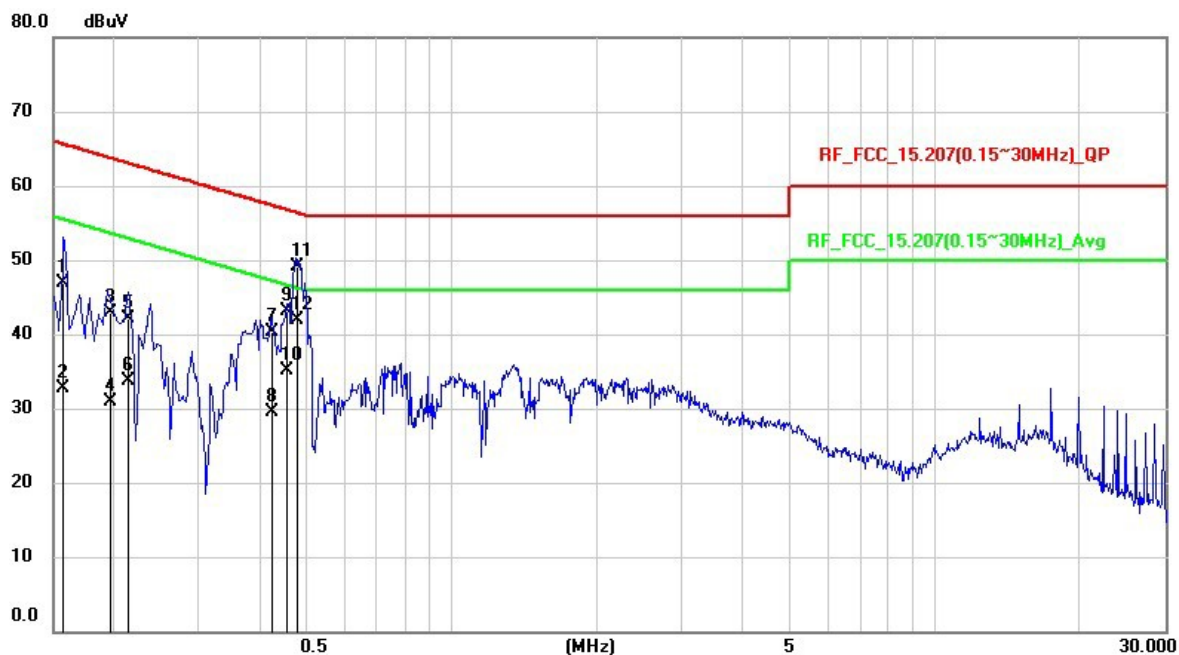


No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1617	35.91	9.84	45.75	65.38	-19.63	QP
2	0.1617	22.76	9.84	32.6	55.38	-22.78	AVG
3	0.199	31.69	9.83	41.52	63.65	-22.13	QP
4	0.199	20.94	9.83	30.77	53.65	-22.88	AVG
5	0.2078	31.9	9.83	41.73	63.29	-21.56	QP
6	0.2078	24.46	9.83	34.29	53.29	-19	AVG
7	0.397	30.84	9.84	40.68	57.92	-17.24	QP
8	0.397	23.25	9.84	33.09	47.92	-14.83	AVG
9	0.437	27.85	9.84	37.69	57.12	-19.43	QP
10	0.437	19.19	9.84	29.03	47.12	-18.09	AVG
11	0.4811	39.05	9.84	48.89	56.32	-7.43	QP
12	0.4811	31.97	9.84	41.81	46.32	-4.51	AVG

Remark:

1. QP = Quasi Peak, AVG = Average
2. Correction Factor = Insertion loss of LISN + Cable loss
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value – Limit Value

Test Voltage :	120Vac, 60Hz	Frequency Range:	0.15-30 MHz
Test Mode :	Mode 1: Bluetooth LE + WIFI 5GHz + 125KHz	6dB Bandwidth :	9 kHz
Test Date :	2019/06/05	Phase :	N
Temperature :	25°C	Humidity :	65 %



No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1572	37.04	9.83	46.87	65.61	-18.74	QP
2	0.1572	22.78	9.83	32.61	55.61	-23	AVG
3	0.1971	33.05	9.82	42.87	63.73	-20.86	QP
4	0.1971	21.18	9.82	31	53.73	-22.73	AVG
5	0.2137	32.37	9.82	42.19	63.06	-20.87	QP
6	0.2137	23.97	9.82	33.79	53.06	-19.27	AVG
7	0.4257	30.38	9.84	40.22	57.34	-17.12	QP
8	0.4257	19.67	9.84	29.51	47.34	-17.83	AVG
9	0.4569	33.31	9.84	43.15	56.75	-13.6	QP
10	0.4569	25.23	9.84	35.07	46.75	-11.68	AVG
11	0.4801	39.27	9.84	49.11	56.34	-7.23	QP
12	0.4801	32.11	9.84	41.95	46.34	-4.39	AVG

Remark:

1. QP = Quasi Peak, AVG = Average
2. Correction Factor = Insertion loss of LISN + Cable loss
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value – Limit Value

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