ISED Test Report

Equipment	:	**Bluetooth 5.2 BLE + 802.15.4 + NFC Module**
Model No.	:	**BL5340PA Series**
Brand Name	:	**Laird Connectivity**
Applicant	:	**Laird Connectivity LLC**
Address	:	**W66N220 Commerce Court, Cedarburg, WI 53012 United States Of America**
Standard	:	**ICES-003 Issue 7, Class B**
Received Date	:	**Oct. 04, 2021**
Tested Date	:	**Nov. 03 ~ Nov. 09, 2021**

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by: **Approved by:**

Peter Lin / Supervisor **Kent Chen / Assistant Manager**

Testing Laboratory 2732

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Release Record

Report No.	Version	Description	Issued Date
CI1O0405	Rev. 01	Initial issue	Mar. 13, 2023

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Summary of Test Results

ICES-003 Emission Tests				
Ref. Std. Clause	**Test Standard**	**Test Items**	**Measured**	**Result**
3.2.1	ICES-003 Issue 7, Class B	Conducted Emissions	Under limit 18.76dB @ 2.309MHz.	Pass
3.2.2	ICES-003 Issue 7, Class B	Radiated Emissions	Under limit 5.58dB @ 67.83MHz.	Pass

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

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1 General Description

1.1 Information

1.1.1 Feature of Equipment under Test (EUT)

Power Supply Type	3.3Vdc from host
Highest Frequency of the Internal Sources	2.4GHz

1.1.2 Accessories

N/A

1.1.3 Antenna Details

Ant. No.	Brand	Model	Type	Connector	2400-2500MHz	2400-2480MHz	Remarks
					Gain (dBi)		
1	Laird	NanoBlue	PCB Dipole	IPEX MHF4	2	---	External
2	Laird	FlexPIFA	PCB Dipole	IPEX MHF4	---	2	External
3	Mag.Layers	EDA-8709-2G4C1-B27-CY	Dipole	IPEX MHF4	2	---	External
4	Laird	mFlexPIFA	PIFA	IPEX MHF4	---	2	External
5	Laird	Laird NFC	spiral	---	---	---	Internal + External
6	Laird	BL5340 onboard printed PCB Trace antenna	Printed PCB	---	1.49	---	Internal
7	Laird	i-FlexPIFA	Inverted Ground Flexible Planar Inverted F Antenna	---	---	3.1	External

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1.2 Test Equipment and Calibration Data

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Test Date	Nov. 03, 2021				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101658	Feb. 08, 2021	Feb. 07, 2022
LISN	R&S	ENV216	101579	Mar. 17, 2021	Mar. 16, 2022
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Dec. 29, 2020	Dec. 28, 2021
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 19, 2021	Oct. 18, 2022
50 ohm terminal (Support Unit)	NA	50	04	May 25, 2021	May 24, 2022
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission below 1GHz				
Test Site	966 chamber 2 / (03CH02-WS)				
Test Date	Nov. 05, 2021				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101657	Mar. 12, 2021	Mar. 11, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-523	Dec. 29, 2020	Dec. 28, 2021
Preamplifier	EMC	EMC02325	980194	Sep. 01, 2021	Sep. 02, 2022
LF cable 1M	EMC	EMCCFD400-NM-NM-1000	160501	Oct. 15, 2021	Oct. 14, 2022
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-003	Oct. 15, 2021	Oct. 14, 2022
LF cable 10M	EMC	CFD400-E	CFD400-001	Oct. 15, 2021	Oct. 14, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

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Test Item	Radiated Emission above 1GHz				
Test Site	966 chamber 2 / (03CH02-WS)				
Test Date	Nov. 09, 2021				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101063	Apr. 19, 2021	Apr. 18, 2022
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1095	Sep. 27, 2021	Sep. 26, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Dec. 31, 2020	Dec. 30, 2021
Preamplifier	EMC	EMC12630SE	980322	Jul. 13, 2021	Jul. 12, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 2022
RF Cable	EMC	EMC105-SM-SM-8000	180512	Oct. 15, 2021	Oct. 14, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16018/4	Oct. 15, 2021	Oct. 14, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.3 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

ICES-003 Issue 7, Class B
ANSI C63.4-2014 amended as per ANSI C63.4a-2017

1.4 Deviation from Test Standard and Measurement Procedure

None

1.5 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Measurement Uncertainty		
Test Item	**Frequency**	**Uncertainty**
Conducted Emissions	150kHz ~ 30MHz	±2.92 dB
Radiated Emissions	30MHz ~ 1GHz	±4.32 dB
	Above 1GHz	±4.9 dB

Note: The results of measurements of emissions shall reference the measurement uncertainty considerations contained in CISPR 16-4-2.

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2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, 03CH02-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

2.2 The Worst Case Measurement Configuration

- The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-axis. The Z-axis results were found as the worst case and were shown in this report.

Radiation Pretest Mode	
Pretest Mode	**Operating Description**
1	EUT(External): Z-axis + Antenna: NanoBlue, 802.15.4 Tx, NFC passive, with notebook
2	EUT(External): Z-axis + Antenna: FlexPIFA, 802.15.4 Tx, NFC passive, with notebook
3	EUT(External): Z-axis + Antenna: EDA-8709-2G4C1-B27-CY, 802.15.4 Tx, NFC passive, with notebook
4	EUT(External): Z-axis + Antenna: mFlexPIFA, 802.15.4 Tx, NFC passive, with notebook
5	EUT(Internal): Z-axis, 802.15.4 Tx, NFC passive, with notebook
6	EUT(External): Z-axis + Antenna: EDA-8709-2G4C1-B27-CY, BT Tx, with notebook
7	EUT(External): Z-axis + Antenna: i-FlexPIFA, 802.15.4 Tx, NFC passive, with notebook
For **Pretest Mode 3** is the worst case and only its data was record in this test report.	

The Determined Worst Case Configurations	
Conducted Emissions	
Test Mode	**Operating Description**
1	EUT(External): X-axis + Antenna: EDA-8709-2G4C1-B27-CY, 802.15.4 Tx, NFC passive, with notebook
Radiated Emissions	
Test Mode ≤ 1GHz	**Operating Description**
1	EUT(External): Z-axis + Antenna: EDA-8709-2G4C1-B27-CY, 802.15.4 Tx, NFC passive, with notebook
Test Mode > 1GHz	**Operating Description**
1	EUT(External): Z-axis + Antenna: EDA-8709-2G4C1-B27-CY, 802.15.4 Tx, NFC passive, with notebook

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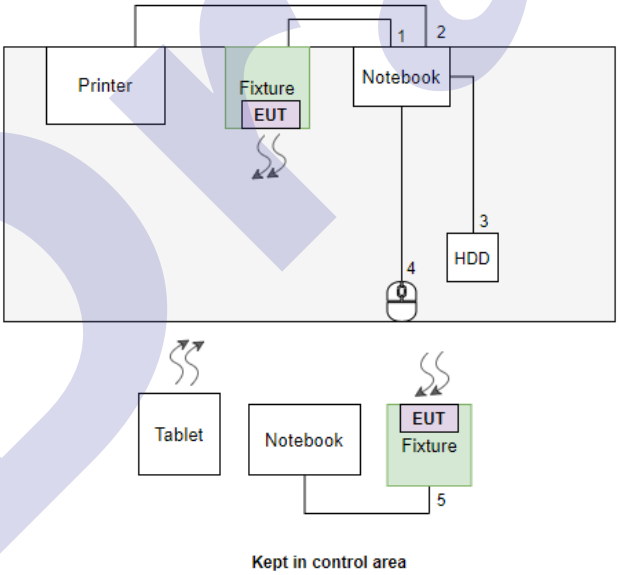
2.3 Local Support Equipment List

Support Equipment List					
No.	**Equipment**	**Brand**	**Model**	**S/N**	**Remarks**
1	Notebook	DELL	Latitude E6440	8VXMD12	---
2	Printer	EPSON	XP-30	QSDK002410	---
3	USB 3.0 HDD	WD	WDBKXH5000 ABK	WX31AB210213	---
4	Mouse	DELL	MS111-L	2C3-00MM	---
5	Tablet	SONY	SGP511TW/B	CB5126VXTX	---
6	Notebook	DELL	Latitude E6440	8VXMD12	---
7	EUT	Laird Connectivity	BL5340PA	---	Provided by applicant.
8	Fixture x2	---	---	---	Provided by applicant.

2.4 Test Setup Chart

Test Setup Diagram



No.	Signal cable / Length (m)
1	USB, 1m shielded.
2	USB, 1.8m shielded.
3	USB, 0.5m shielded.
4	USB, 1.8m shielded.
5	USB, 1m shielded.

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2.5 Test Software and Operating Condition

a. To enable all function of test system.
b. The support notebook executed “WinEMC.exe” to send “H” patterns to its monitor and the monitor displayed them.
c. The support notebook executed “WinEMC.exe” to send “H” patterns to the printer.
a. The support notebook executed putty command to link with 802.15.4 Tx.
b. The EUT linked to tablet by NFC.

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3 Emission Tests Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

Frequency Range (MHz)	Class A Quasi-Peak (dBuV)	Class A Average (dBuV)	Class B Quasi-Peak (dBuV)	Class B Average (dBuV)
0.15 – 0.5	79	66	66 to 56[i]	56 to 46[i]
0.5 – 5	73	60	56	46
5 – 30	73	60	60	50
Note: The more stringent limit applies at transition frequencies. i. The limit level in dBuV decreases linearly with the logarithm of frequency.				

3.1.2 Test Procedures

a. The EUT was placed on a table with a height of 0.8 meters from the metal ground plane and 0.4 meters from the conducting wall of the shielding room and it was kept at least 0.8 meters from any other grounded conducting surface.

b. The test equipment EUT installed received DC power through a Line Impedance Stabilization Network (LISN), which supplied power source and was grounded to the ground plane.

c. All the support units were connected to the other LISN.

d. The LISN provides 50 ohm coupling impedance for the measuring instrument.

e. The CISPR states that a 50 ohm, 50 microhenry LISN should be used.

f. Both sides of AC line were checked for maximum conducted interference.

g. The measurement frequency range extends from 150 kHz to 30 MHz.

h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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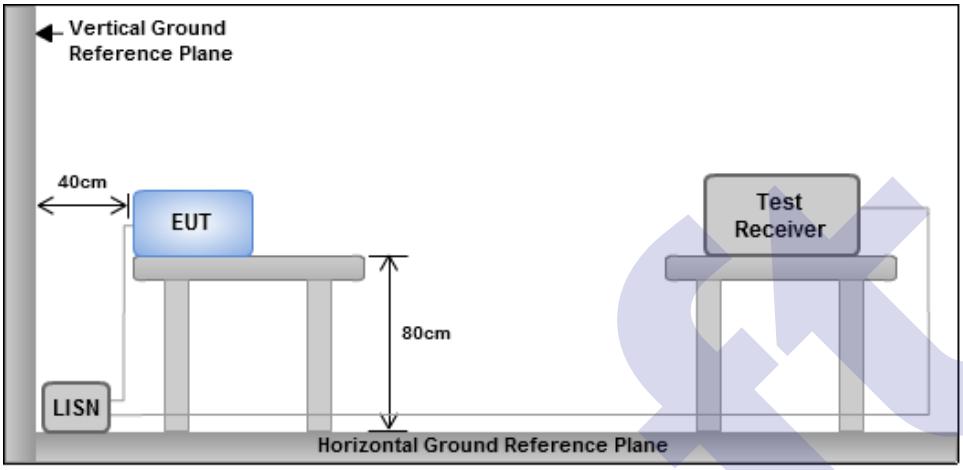
3.1.3 Test Setup



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

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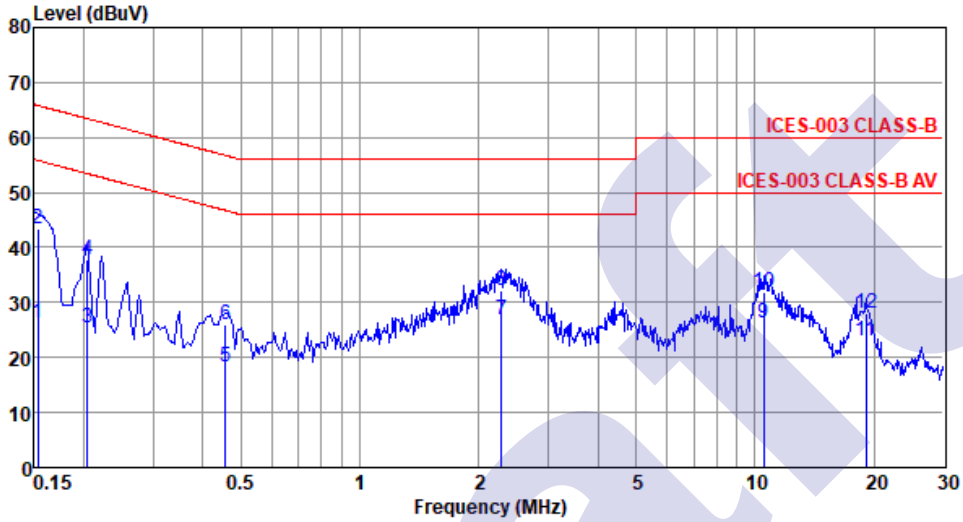
3.1.4 Test Result of Conducted Emissions

Power Phase	Line	Test Mode	1

Test by : Joe Liao Temperature: 22°C Humidity: 63%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.153	26.30	55.82	-29.52	16.56	9.66	0.08	0.00	Average
2	0.153	43.28	65.82	-22.54	33.54	9.66	0.08	0.00	QP
3	0.204	25.38	53.45	-28.07	15.65	9.65	0.08	0.00	Average
4	0.204	37.74	63.45	-25.71	28.01	9.65	0.08	0.00	QP
5	0.456	18.28	46.76	-28.48	8.55	9.64	0.09	0.00	Average
6	0.456	25.89	56.76	-30.87	16.16	9.64	0.09	0.00	QP
7*	2.285	26.81	46.00	-19.19	16.95	9.66	0.20	0.00	Average
8	2.285	32.14	56.00	-23.86	22.28	9.66	0.20	0.00	QP
9	10.508	26.19	50.00	-23.81	16.02	9.71	0.46	0.00	Average
10	10.508	31.84	60.00	-28.16	21.67	9.71	0.46	0.00	QP
11	19.122	23.02	50.00	-26.98	12.70	9.68	0.64	0.00	Average
12	19.122	27.92	60.00	-32.08	17.60	9.68	0.64	0.00	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

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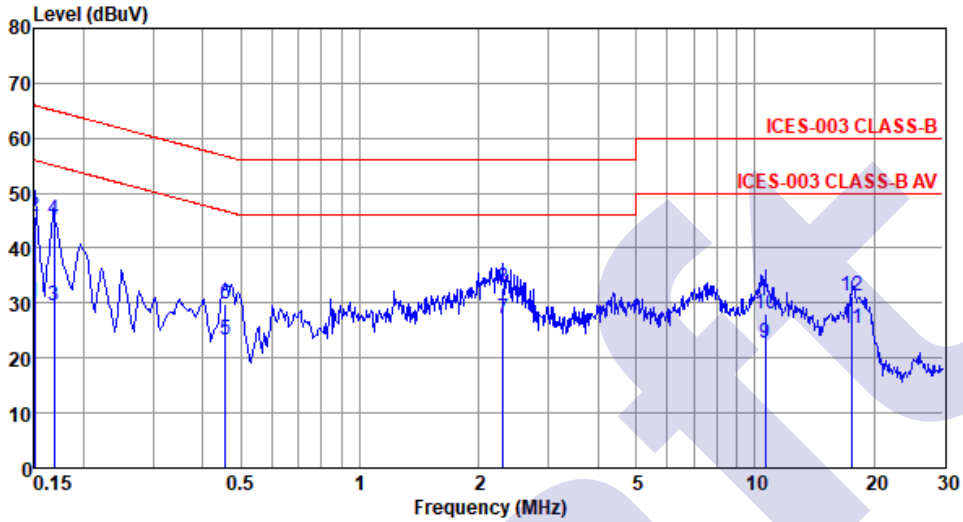
Power Phase	Neutral	Test Mode	1

Test by : Joe Liao Temperature: 22°C Humidity: 63%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.150	30.20	56.00	-25.80	20.43	9.69	0.08	0.00	Average
2	0.150	45.89	66.00	-20.11	36.12	9.69	0.08	0.00	QP
3	0.169	29.48	55.03	-25.55	19.71	9.69	0.08	0.00	Average
4	0.169	45.23	65.03	-19.80	35.46	9.69	0.08	0.00	QP
5	0.456	23.37	46.76	-23.39	13.61	9.67	0.09	0.00	Average
6	0.456	29.88	56.76	-26.88	20.12	9.67	0.09	0.00	QP
7*	2.309	27.24	46.00	-18.76	17.35	9.69	0.20	0.00	Average
8	2.309	32.67	56.00	-23.33	22.78	9.69	0.20	0.00	QP
9	10.620	22.80	50.00	-27.20	12.56	9.77	0.47	0.00	Average
10	10.620	28.17	60.00	-31.83	17.93	9.77	0.47	0.00	QP
11	17.661	25.39	50.00	-24.61	14.94	9.83	0.62	0.00	Average
12	17.661	31.42	60.00	-28.58	20.97	9.83	0.62	0.00	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

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3.2 Radiated Emissions

3.2.1 Limit of Radiated Emissions

Radiated emissions limits (30 MHz to 1 GHz) at 3 m distance

Frequency range (MHz)	Class A Quasi-peak (dBuV/m)	Class B Quasi-peak (dBuV/m)
30 – 88	50.0	40.0
88 – 216	54.0	43.5
216 – 230	56.9	46.0
230 – 960	57.0	47.0
960 – 1000	60.0	54.0
Note: The more stringent limit applies at transition frequencies.		

Required emission limits at 3 m distance (at and above 1 GHz)

Frequency range (GHz)[i]	Class A Average dB(µV/m)	Class A Peak dB(µV/m)	Class B Average dB(µV/m)	Class B Peak dB(µV/m)
1 – F_M	60	80	54	74
i. The highest measurement frequency, F_M in GHz, shall be determined as per table above.				

Required highest measurement frequency for radiated emissions:

Highest internal frequency (F_x)[i]	Highest measurement frequency (F_M)
$F_x \leq 108$ MHz	1 GHz
108 MHz < $F_x \leq 500$ MHz	2 GHz
500 MHz < $F_x \leq 1$ GHz	5 GHz
$F_x > 1$ GHz	5 x F_x up to maximum of 40GHz
i. F_x is the highest fundamental frequency generated and/or used in the ITE or digital apparatus under test.	

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3.2.2 Test Procedures

Measuring below 1 GHz:

a. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.

b. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.

c. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Measuring above 1 GHz:

a. Same test set up as below 1GHz radiated testing.

b. The EUT was set 3 meters from the interference-receiving antenna which was mounted on the top of a variable height antenna tower.

c. There should be absorber placed between the EUT and Antenna and its located size should let the test site meet CISPR16-1-4 requirement.

d. The table was rotated 360 degrees to determine the position of the highest radiation.

e. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

f. Set the Horn Antenna at 1m height, then run the turn table to get the maximum noise reading from Horizontal and Vertical polarity separately.

g. When EUT locating on the turn-table, the Horn Antenna must be raised up and descended down, then turning around the turn-table to get the maximum noise reading of the Horizontal and Vertical polarity separately. Note the maximum raise up height is same as the top of EUT.

h. If emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

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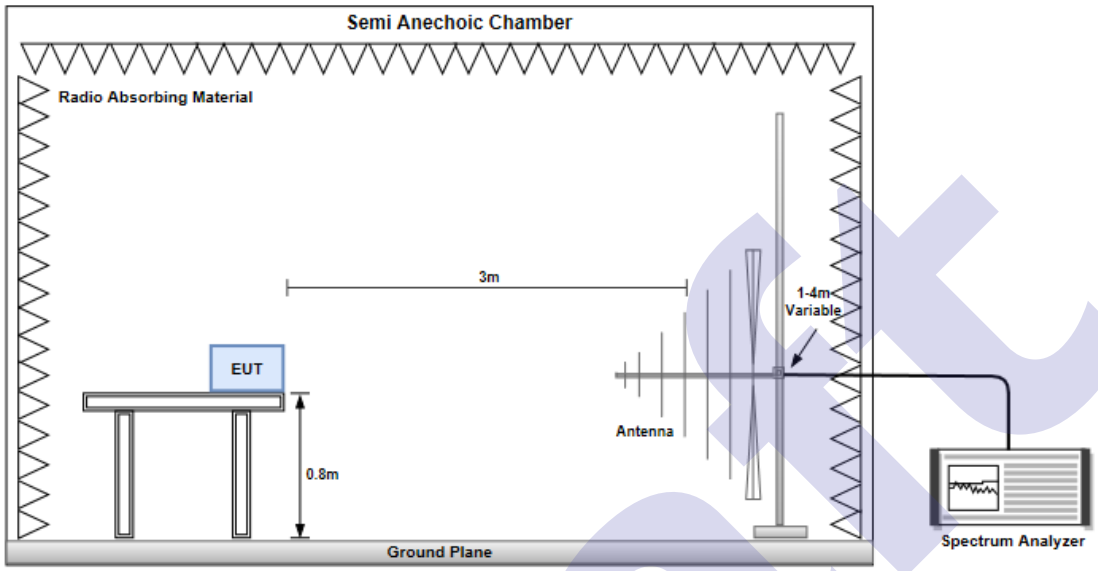
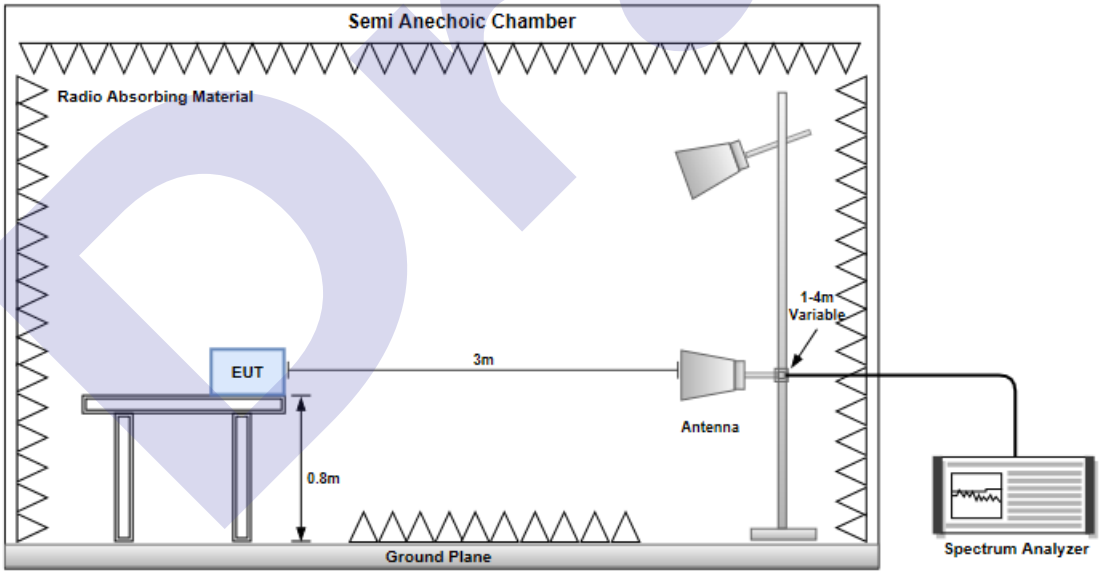
3.2.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



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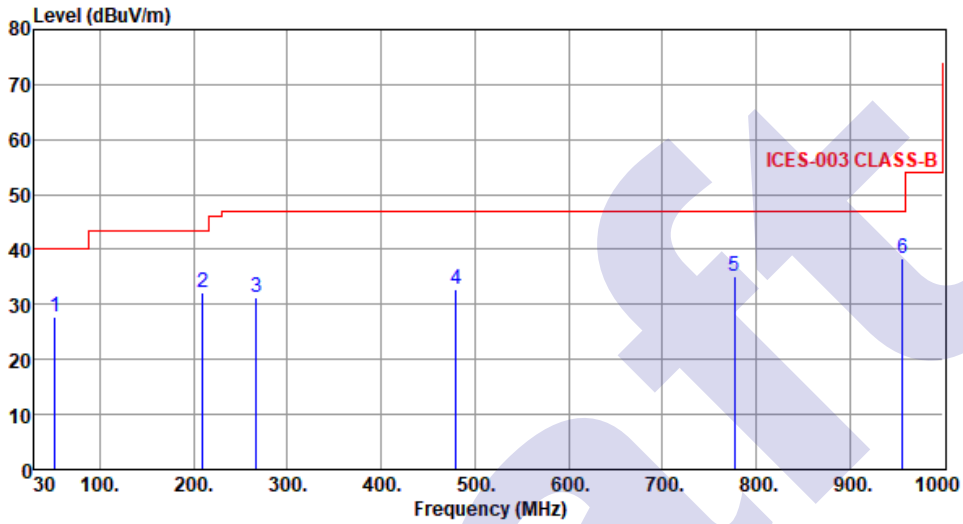
3.2.4 Radiated Emissions (Below 1GHz)

Polarization	Horizontal	Test Mode	1

Test By :Joe Liao Temperature(℃):22 Humidity(%):58



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	52.31	27.89	40.00	-12.11	36.41	-8.52	Peak	---	---
2	209.45	32.16	43.50	-11.34	43.88	-11.72	Peak	---	---
3	266.68	31.30	47.00	-15.70	40.55	-9.25	Peak	---	---
4	480.08	32.82	47.00	-14.18	36.51	-3.69	Peak	---	---
5	776.90	35.04	47.00	-11.96	32.04	3.00	Peak	---	---
6	956.35	38.36	47.00	-8.64	32.33	6.03	Peak	---	---

Note 1: Emission level (dBuV/m) = SA reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor, cable loss and amplifier gain
2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m)

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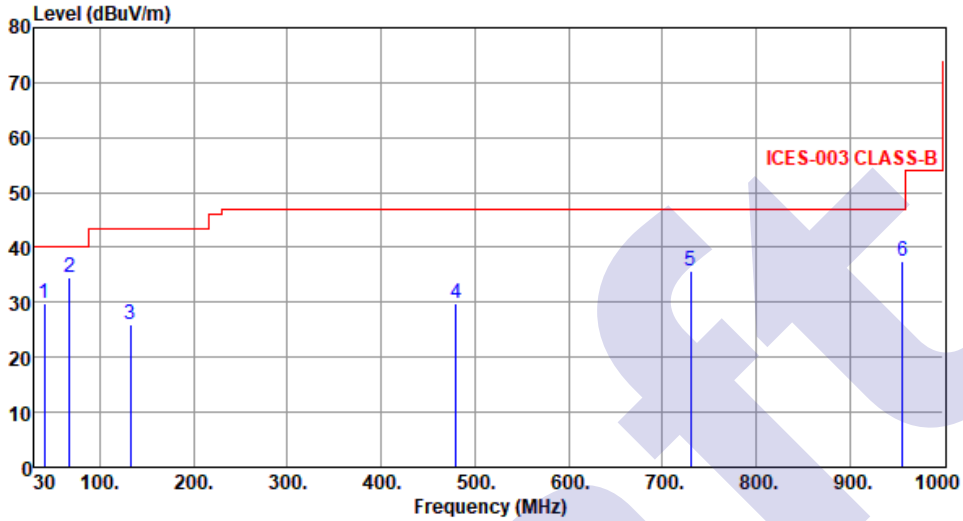
Polarization	Vertical	Test Mode	1

Test By :Joe Liao Temperature(℃):22 Humidity(%):58



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	40.67	29.89	40.00	-10.11	39.26	-9.37	Peak	---	---
2	67.83	34.42	40.00	-5.58	45.07	-10.65	Peak	---	---
3	132.82	25.97	43.50	-17.53	36.11	-10.14	Peak	---	---
4	480.08	29.71	47.00	-17.29	33.40	-3.69	Peak	---	---
5	730.34	35.85	47.00	-11.15	34.22	1.63	Peak	---	---
6	956.35	37.43	47.00	-9.57	31.40	6.03	Peak	---	---

Note 1: Emission level (dBuV/m) = SA reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor, cable loss and amplifier gain
2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m)

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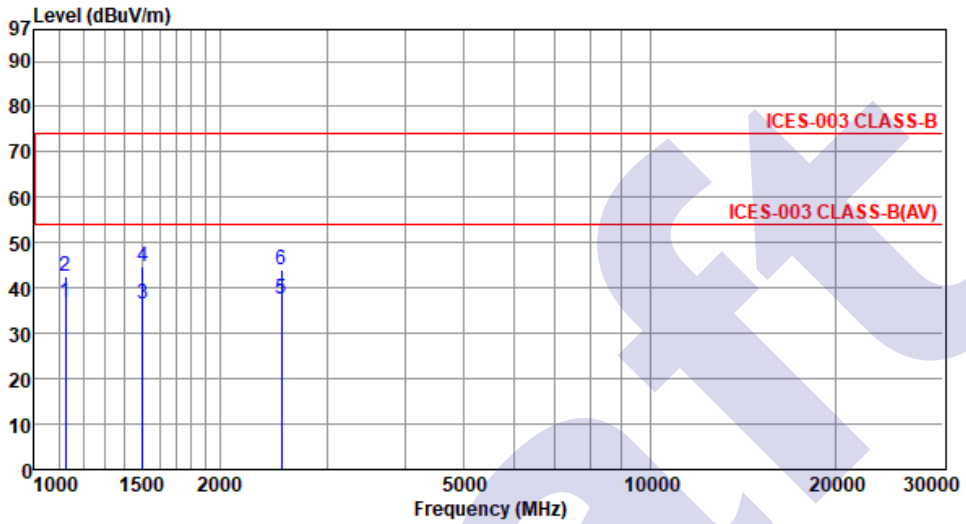
3.2.5 Radiated Emissions (Above 1GHz)

Polarization	Horizontal	Test Mode	1

Test By :Joe Liao Temperature(℃):23 Humidity(%):64



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	1124.10	36.74	54.00	-17.26	45.13	-8.39	Average	100	155
2	1124.10	42.77	74.00	-31.23	51.16	-8.39	Peak	100	155
3	1500.20	36.62	54.00	-17.38	43.92	-7.30	Average	142	234
4	1500.20	44.83	74.00	-29.17	52.13	-7.30	Peak	142	234
5	2522.10	37.46	54.00	-16.54	41.47	-4.01	Average	100	76
6	2522.10	44.15	74.00	-29.85	48.16	-4.01	Peak	100	76

Note 1: Emission level (dBuV/m) = SA reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor, cable loss and amplifier gain
2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m)

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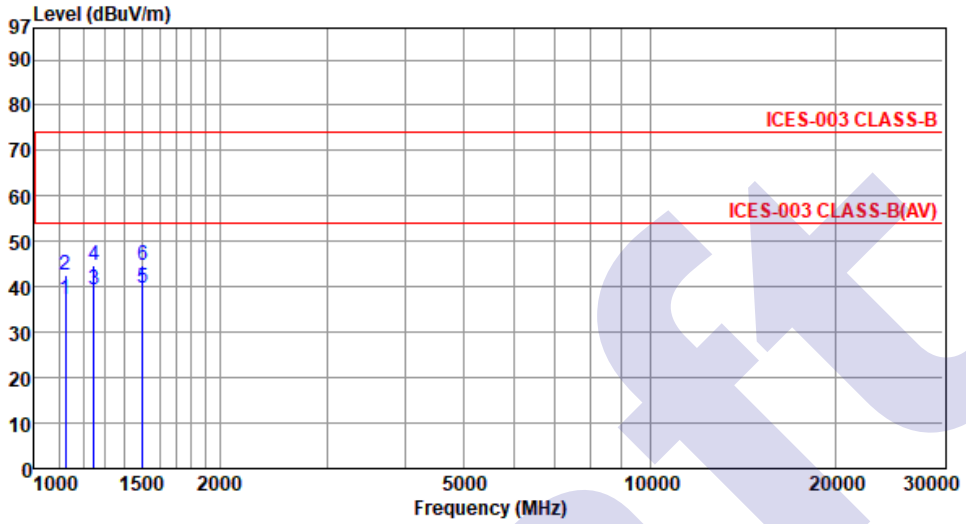
Polarization	Vertical	Test Mode	1

Test By :Joe Liao Temperature(℃):23 Humidity(%):64



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	1124.30	37.13	54.00	-16.87	45.52	-8.39	Average	100	266
2	1124.30	42.74	74.00	-31.26	51.13	-8.39	Peak	100	266
3	1250.10	39.55	54.00	-14.45	46.90	-7.35	Average	106	305
4	1250.10	44.81	74.00	-29.19	52.16	-7.35	Peak	106	305
5	1500.80	39.89	54.00	-14.11	47.19	-7.30	Average	100	144
6	1500.80	44.83	74.00	-29.17	52.13	-7.30	Peak	100	144

Note 1: Emission level (dBuV/m) = SA reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor, cable loss and amplifier gain
2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m)

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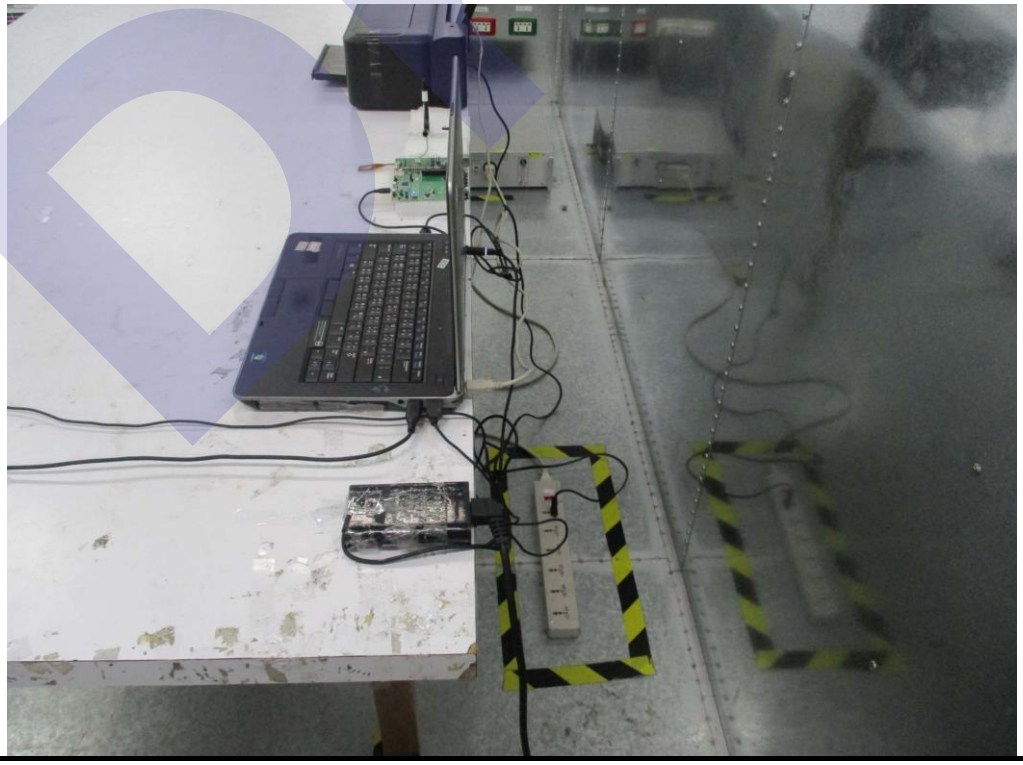
4 Photographs of the Test Configuration

Conducted Emission Test



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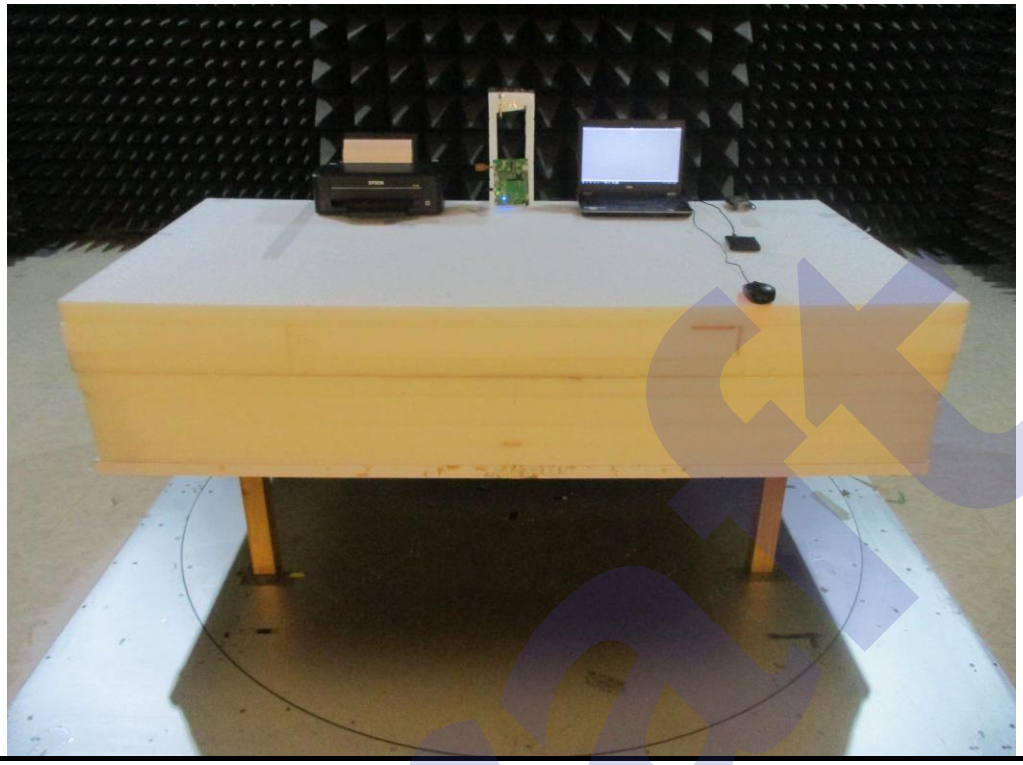
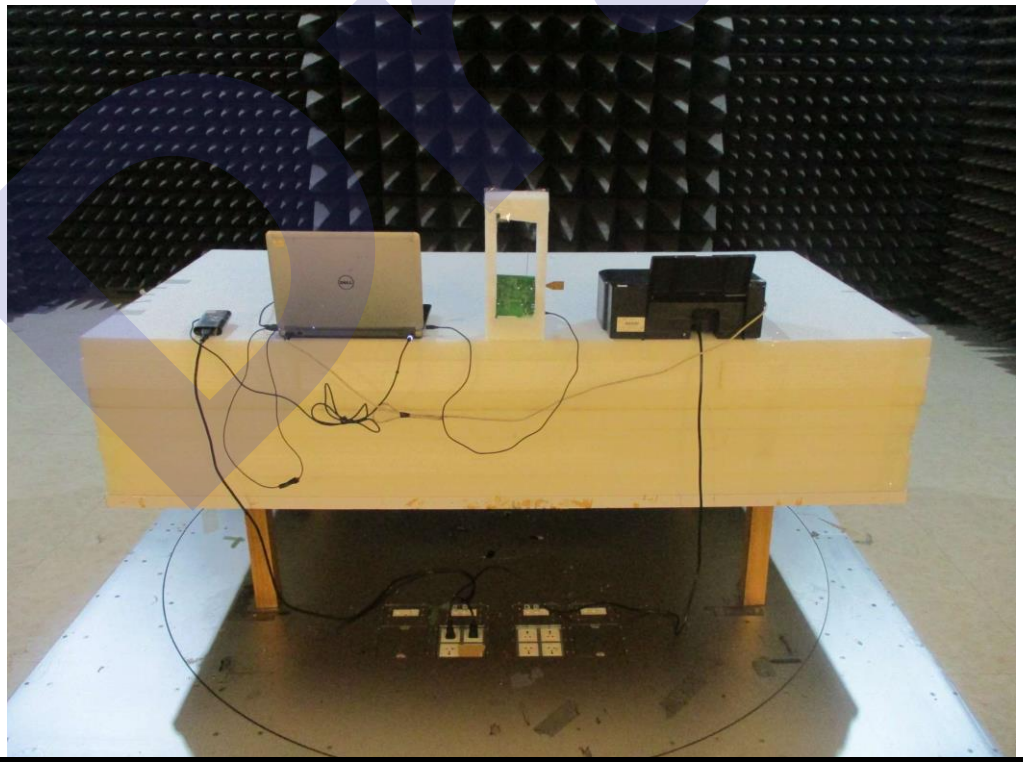
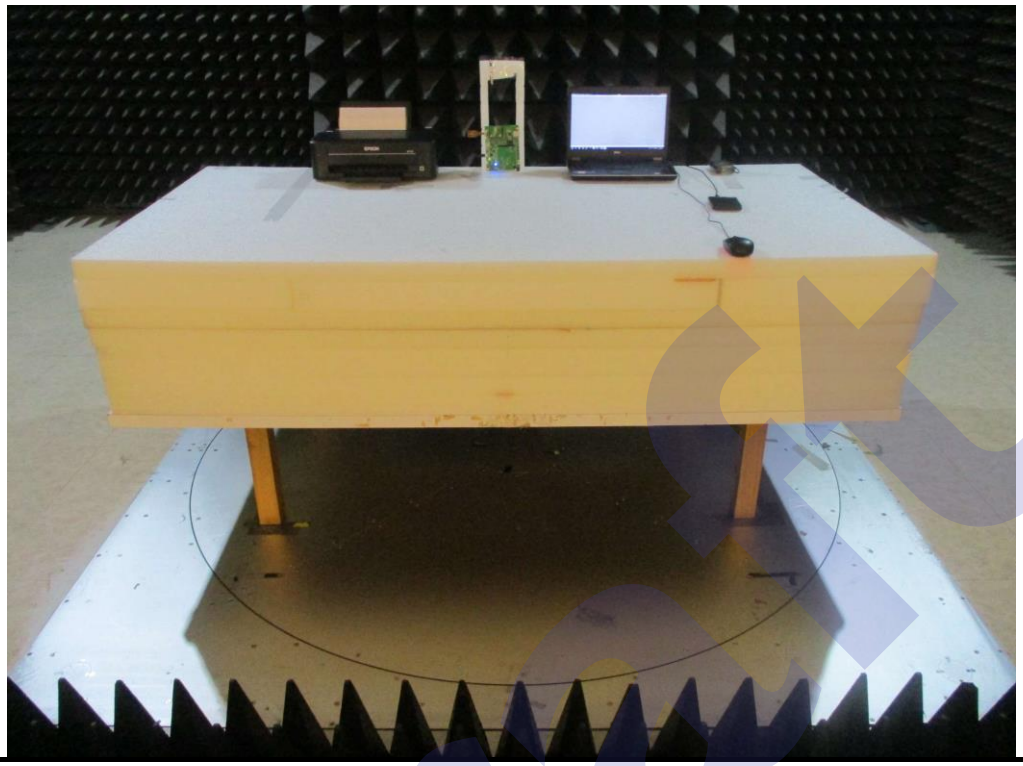
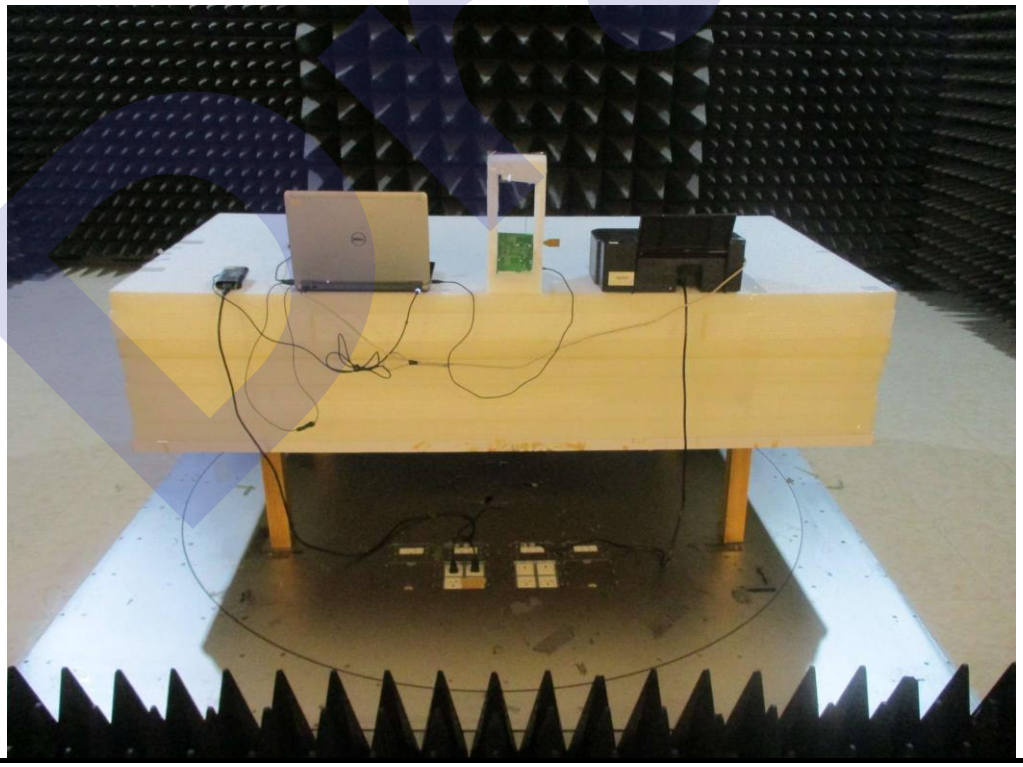
Radiated Emission Below 1GHz Test





Radiated Emission Above 1GHz Test





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5 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website http://www.icertifi.com.tw.

Linkou

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan (R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

No.2-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 333, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

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Email: ICC_Service@icertifi.com.tw

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