FCC RADIO TEST REPORT

FCC ID	:	**2ADEFAT-CD1**
Equipment	:	**Airtame Radio Module**
Brand Name	:	**Airtame**
Model Name	:	**AT-CD1**
Applicant	:	**Airtame ApS Danneskiold Samsoes Alle 24, 1sal TV, Copenhagen K 1434, Denmark**
Manufacturer	:	**Airtame ApS Danneskiold Samsoes Alle 24, 1sal TV, Copenhagen K 1434, Denmark**
Standard	:	**FCC Part 15 Subpart C §15.247**

The product was received on Mar. 28, 2022 and testing was performed from May 20, 2022 to Jul. 11, 2022. We, Sporton International (USA) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval from Sporton International (USA) Inc., the test report shall not be reproduced except in full.

Neil Kao

Approved by: Neil Kao

Sporton International (USA) Inc.

1175 Montague Expressway, Milpitas, CA 95035

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History of this test report

Report No.	Version	Description	Issue Date
FR210727003C	01	Initial issue of report	Jul. 19, 2022
FR210727003C	02	1. Revise section 3.2.8 and 3.3.3 2. Revise Appendix C and Appendix D	Jul. 29, 2022

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(b)	Power Output Measurement	Pass	-
3.2	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	0.14 dB under the limit at 2390.000 MHz
3.3	15.207	AC Conducted Emission	Pass	1.14 dB under the limit at 12.588 MHz
3.4	15.203 & 15.247(b)	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. Please refer to the section ”Uncertainty Evaluation” for measurement uncertainty.

Comments and Explanations:

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

1 General Description

1.1 Product Feature of Equipment Under Test

Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n/ac.

Product Feature	
Antenna Type	WLAN: <Ant. 1>: PCB Dipole Antenna <Ant. 2>: PCB Dipole Antenna Bluetooth: PCB Dipole Antenna

Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	<Ant. 1>: 2.8 <Ant. 2>: 3.0

Remark: The EUT's information above is declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International (USA) Inc.
Test Site Location	1175 Montague Expressway, Milpitas, CA 95035 TEL : 408 9043300
Test Site No.	**Sporton Site No.**
	03CH02-CA, TH01-CA, CO01-CA

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: US1250

1.4 Applicable Standards

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

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v05r02
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find X plane as worst plane.

b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437		

2.2 Test Mode

The final test modes consider the modulation and the worst data rates as shown in the table below.

Single Antenna

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps

MIMO Antenna

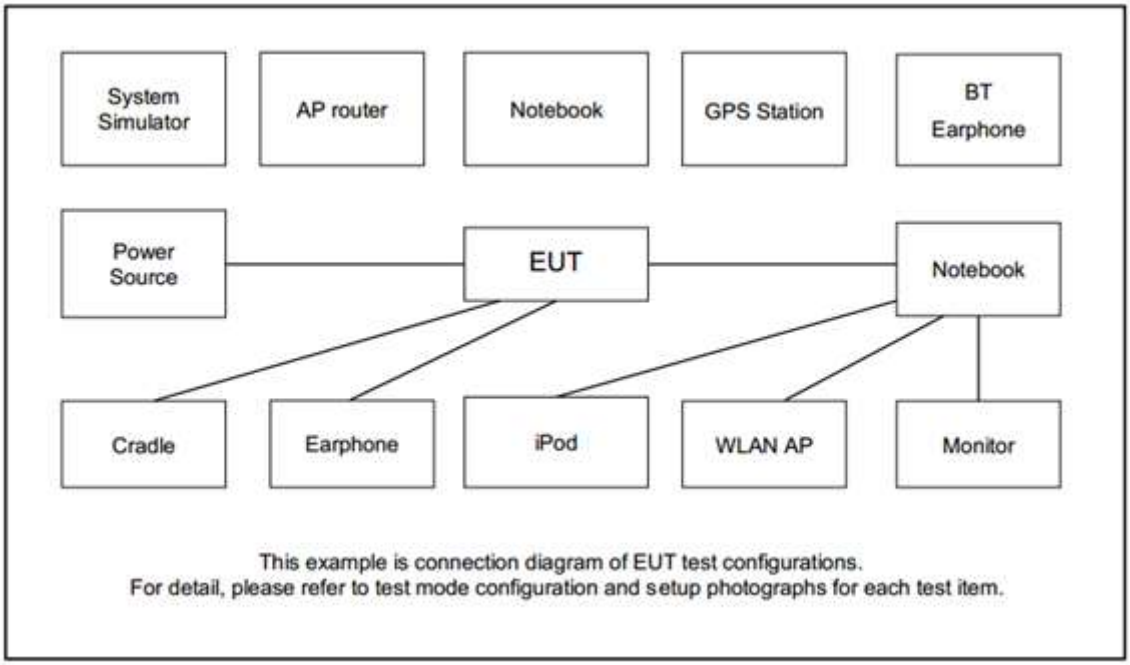
Modulation	Data Rate
802.11n HT20	MCS0

Test Cases	
AC Conducted Emission	Mode 1 :WLAN (2.4GHz) Link + Bluetooth Link + RJ45 Link (Charging from Adapter) + Play video with USB-C HDD + HDMI*2 connect to TV (TV Resolution: 1080p) + USB-A 3.0 Link to mouse + USB-A 3.0 connect to keyboard + USB-C 3.0 Link to HDD Mode 2 :WLAN (2.4GHz) Link + Bluetooth Link + RJ45 Link (Charging from PoE Adapter) + Play video with USB-C HDD + HDMI*2 connect to TV (TV Resolution: 4K 30Hz) + USB-A 3.0 Link to mouse + USB-A 3.0 connect to speaker + USB-C 3.0 Link to HDD
Remark: 1. The worst case of Conducted Emission is mode 2; only the test data of it was reported. 2. HDMI Cable means media application transferred between EUT and external display.	

Ch. #	2400-2483.5 MHz		
	802.11b	802.11g	802.11n HT20
Low	01	01	01
Middle	06	06	06
High	11	11	11

Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	NETGEAR	R7800	PY315100319	N/A	Unshielded 1.2m
2.	PoE adapter	TYCON	TP-POE-HP-48G-RC	FCC DoC	N/A	Unshielded, 1m
3.	HDD	WD	WDBYNN0010BBL-0B	FCC DoC	N/A	Shielded, 0.5m
4.	Notebook	Acer	Altos PS548-G1	FCC DoC	N/A	AC I/P: Unshielded, 1.0m DC O/P: Shielded, 1.8m
5.	Monitor	Samsung	U28R552UQR	FCC DoC	Shielded, 1.2 m	Unshielded, 1.8 m
6.	Bluetooth Speaker	JBL	GO2J	CCAH18LP0030E4	N/A	N/A
7.	Keyboard	Lenovo	SK-8827	FCC DoC	N/A	Unshielded, 1.0m
8.	Mouse	HP	N910U	FCC DoC	N/A	Unshielded, 1.2m
9.	Speaker	Logitech	S150	FCC DoC	N/A	Unshielded, 1.0m

2.5 EUT Operation Test Setup

The RF test items, utility “script_ wifi_Airtame.sh” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

3 Test Result

3.1 Output Power Measurement

3.1.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5 MHz, the limit for output power is 30 dBm. If transmitting antenna with directional gain greater than 6 dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

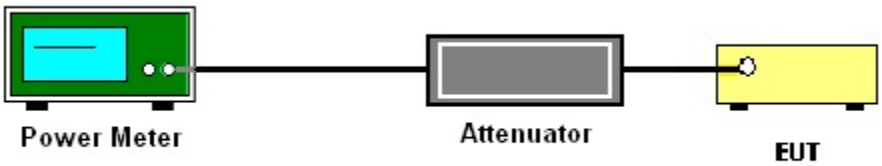
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. For Peak Power, the testing follows ANSI C63.10 Section 11.9.1.3 PKPM1
2. The RF output of EUT is connected to the power meter by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Measure the conducted output power and record the results in the test report.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.1.4 Test Setup



3.1.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.2 Radiated Band Edges and Spurious Emission Measurement

3.2.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device is measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2 Measuring Instruments

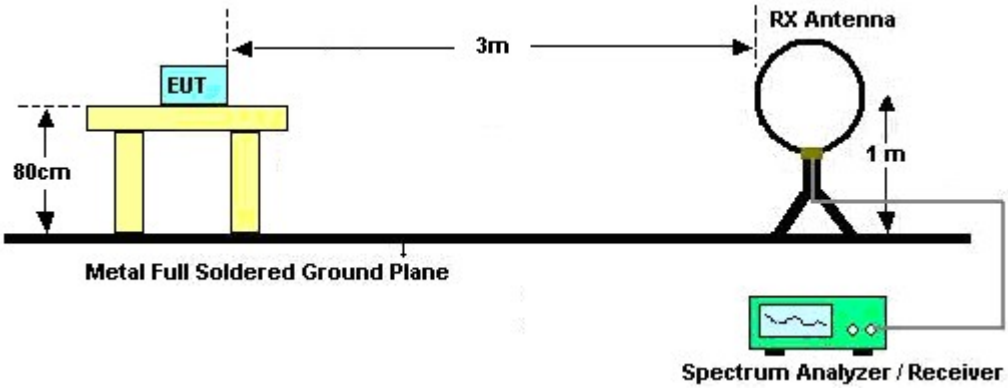
Please refer to the measuring equipment list in this test report.

3.2.3 Test Procedures

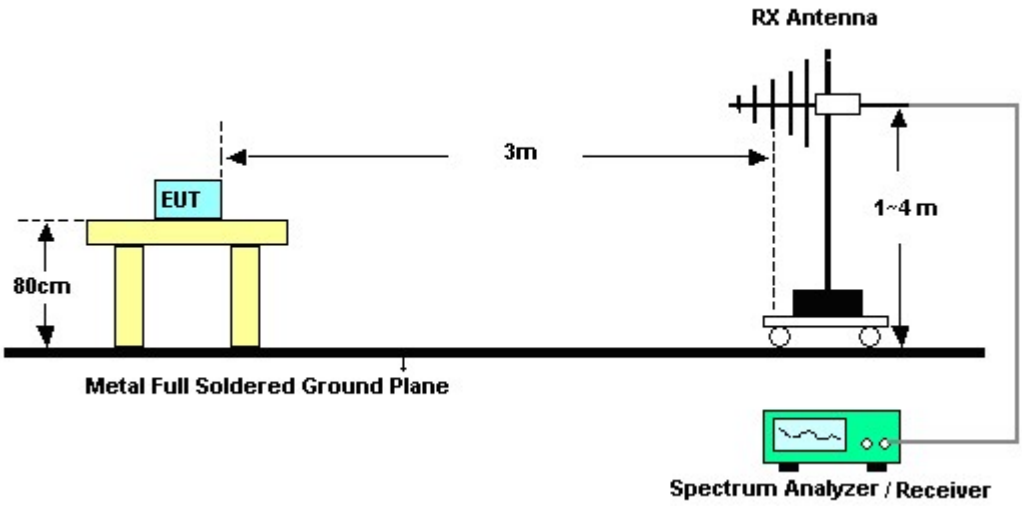
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as "-".
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as "-".
8. Use the following spectrum analyzer settings:
   (1) Span shall wide enough to fully capture the emission being measured;
   (2) Set RBW = 100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
   (3) Set RBW = 1 MHz, VBW= 3 MHz for f ≥ 1 GHz for peak measurement.
   For average measurement:
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.2.4 Test Setup

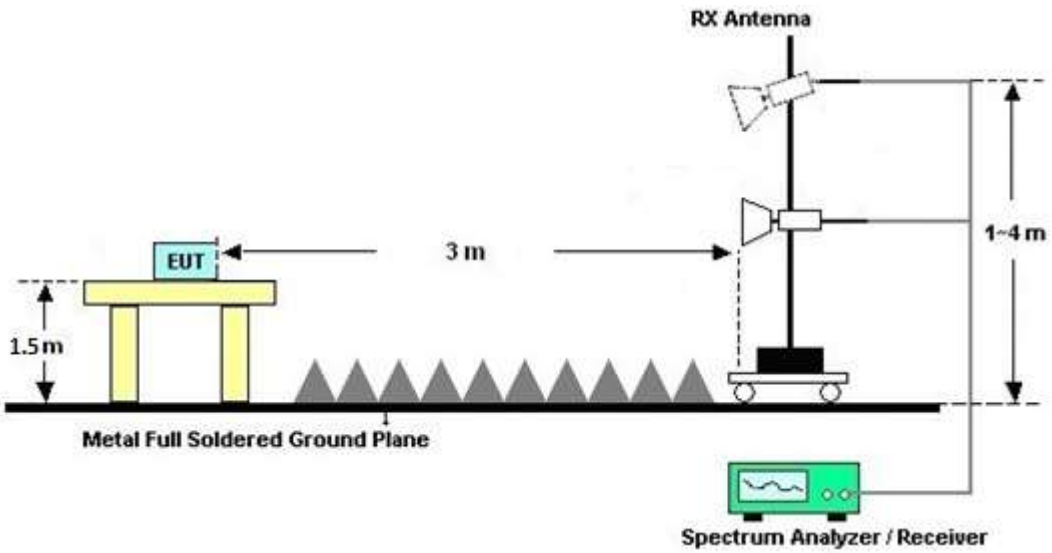
For radiated emissions below 30MHz



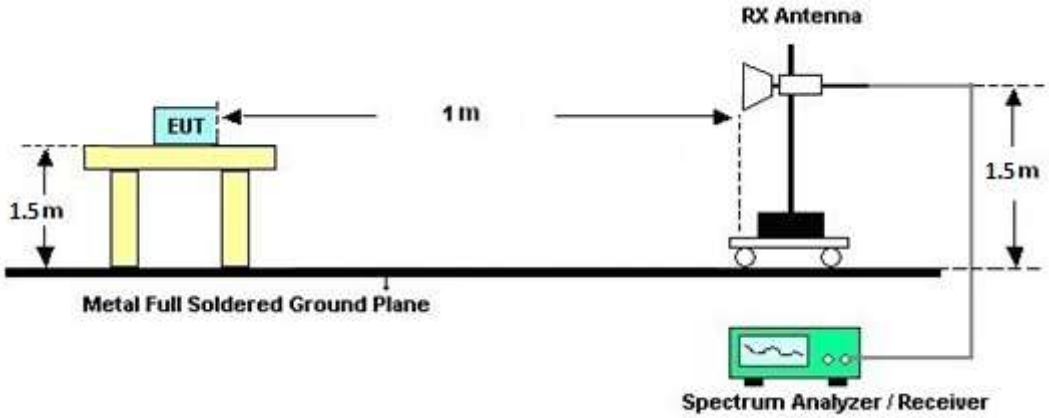
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.2.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result comes out very similar.

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.2.7 Duty Cycle

Please refer to Appendix E.

3.2.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

Note: When the scan with peak detector exceeds the limit associated with the average detector, additional scan with average detection was performed to show compliance with the average limit. The additional scan plot of the low channel is provided for justification.

3.3 AC Conducted Emission Measurement

3.3.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dBµV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

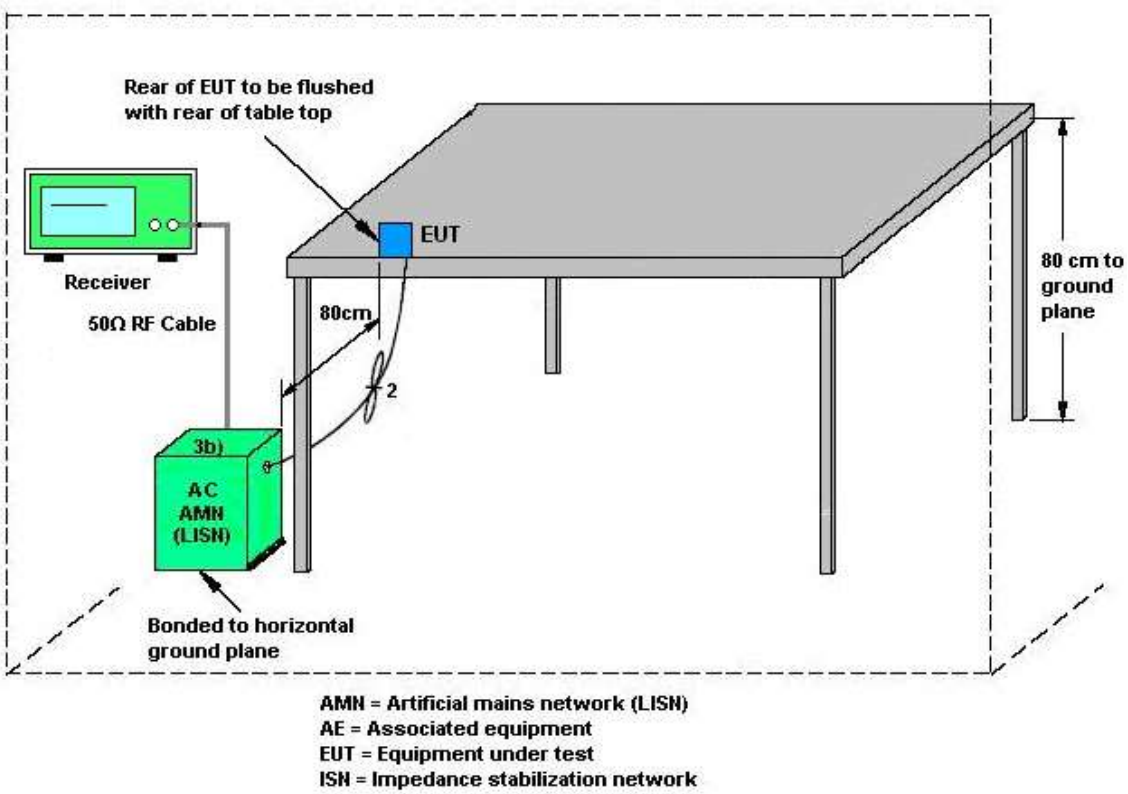
3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.3.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9 kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.3.4 Test Setup



3.3.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.4 Antenna Requirements

3.4.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.4.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.4.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	45142595	N/A	Aug. 30, 2021	Jun. 21, 2022~ Jul. 11, 2022	Aug. 29, 2022	Conducted (TH01-CA)
Power Sensor	EM Electronics Corporation	RPR3006W	RPR6W-1901 026	10MHz-6GHz	May 10, 2022	Jun. 21, 2022~ Jul. 11, 2022	May 09, 2023	Conducted (TH01-CA)
Switch Box & RF Cable	EM Electronics	EMSW26	1090304	N/A	Mar. 30, 2022	Jun. 21, 2022~ Jul. 11, 2022	Mar. 29, 2023	Conducted (TH01-CA)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101089	10Hz-40GHz	Jun. 01, 2022	Jun. 21, 2022~ Jul. 11, 2022	May 31, 2023	Conducted (TH01-CA)
LISN	TESEQ	NNB51	47415	N/A	May 10, 2022	May 20, 2022~ Jun. 20, 2022	May 09, 2023	Conduction (CO01-CA)
LISN	TESEQ	NNB51	47407	N/A	May 10, 2022	May 20, 2022~ Jun. 20, 2022	May 09, 2023	Conduction (CO01-CA)
Pulse limiter with 10dB attenuation	SCHWARZBE CK	VTSD 9561-F N	9561-F-N00412	N/A	Jul. 06, 2021	May 20, 2022~ Jun. 20, 2022	Jul. 05, 2022	Conduction (CO01-CA)
EMI Test Receiver	R&S	ESR7	102177	7GHz	Jun. 02, 2021	May 20, 2022~ May 31, 2022	Jun. 01, 2022	Conduction (CO01-CA)
EMI Test Receiver	R&S	ESR7	102177	7GHz	May 31, 2022	Jun. 01, 2022~ Jun. 20, 2022	May 30, 2023	Conduction (CO01-CA)
Software	R&S	EMC32	N/A	Version 10.30.00	N/A	May 20, 2022~ Jun. 20, 2022	N/A	Conduction (CO01-CA)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9kHz~30MHz	Jan. 07, 2022	May 24, 2022~ Jul. 05, 2022	Jan. 06, 2023	Radiation (03CH02-CA)
Bilog Antenna	TESEQ	6111D	54683	30MHz~1GHz	Oct. 15, 2021	May 24, 2022~ Jul. 05, 2022	Oct. 14, 2022	Radiation (03CH02-CA)
Horn Antenna	SCHWARZBE CK	BBHA 9120D	01895	1GHz~18GHz	Aug. 25, 2021	May 24, 2022~ Jul. 05, 2022	Aug. 24, 2022	Radiation (03CH02-CA)
Horn Antenna	SCHWARZBE CK	BBHA 9170D	00842	18GHz~40GHz	Jul. 20, 2021	May 24, 2022~ Jul. 05, 2022	Jul. 19, 2022	Radiation (03CH02-CA)
Amplifier	SONOMA	310N	372240	N/A	May 10, 2022	May 24, 2022~ Jul. 05, 2022	May 09, 2023	Radiation (03CH02-CA)
Preamplifier	Keysight	83017A	MY53270323	1GHz~26.5GHz	May 11, 2022	May 24, 2022~ Jul. 05, 2022	May 10, 2023	Radiation (03CH02-CA)
Preamplifier	E-instrument	ERA-100M-18G-56-01-A70	EC1900251	1GHz~18GHz	May 10, 2022	May 24, 2022~ Jul. 05, 2022	May 09, 2023	Radiation (03CH02-CA)
Preamplifier	EMEC	EMC18G40G	060725	18GHz-40GHz	May 10, 2022	May 24, 2022~ Jul. 05, 2022	May 09, 2023	Radiation (03CH02-CA)
RF Cable	HUBER+SUH NER	SUCOFLEX 102	8024032/2, 8024062/2, 802856/2	N/A	Jun. 23, 2021	May 24, 2022~ Jun. 21, 2022	Jun. 22, 2022	Radiation (03CH02-CA)
RF Cable	HUBER+SUH NER	SUCOFLEX 102	8024032/2, 802406/2, 802875/2	N/A	Jun. 22, 2022	Jun. 22, 2022~ Jul. 05, 2022	Jun. 21, 2023	Radiation (03CH02-CA)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	Keysight	N9010A	MY57420221	10Hz~44GHz	Sep. 22, 2021	May 24, 2022~ Jul. 05, 2022	Sep. 21, 2022	Radiation (03CH02-CA)
Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN10	3GHz High Pass Filter	Jul. 22, 2021	May 24, 2022~ Jul. 05, 2022	Jul. 21, 2022	Radiation (03CH02-CA)
Filter	Wainwright	WLK12-1200-1272-11000-40SS	SN1	1.2GHz Low Pass Filter	Jul. 22, 2021	May 24, 2022~ Jul. 05, 2022	Jul. 21, 2022	Radiation (03CH02-CA)
Hygrometer	TESEO	608-H1	45142602	N/A	Aug. 04, 2021	May 24, 2022~ Jul. 05, 2022	Aug. 03, 2022	Radiation (03CH02-CA)
Controller	ChainTek	EM-1000	060876	NA	N/A	May 24, 2022~ Jul. 05, 2022	N/A	Radiation (03CH02-CA)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	May 24, 2022~ Jul. 05, 2022	N/A	Radiation (03CH02-CA)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	May 24, 2022~ Jul. 05, 2022	N/A	Radiation (03CH02-CA)
Software	Audix	E3	N/A	N/A	N/A	May 24, 2022~ Jul. 05, 2022	N/A	Radiation (03CH02-CA)

5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.0 dB

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.7 dB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.2 dB

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.4 dB

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Venkata Kondepudi/Liliana Gonzalez	Temperature:	21~25	°C
Test Date:	2022/6/21~2022/7/11	Relative Humidity:	48~52	%

Report Number : FR210727003C

TEST RESULTS DATA
Peak Output Power

2.4GHz Band Single Antenna																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	1	1	2412	20.18	-	-	30.00	-	2.80	3.00	22.98	-	36.00	-	Pass
11b	1Mbps	1	6	2437	20.65	-	-	30.00	-	2.80	3.00	23.45	-	36.00	-	Pass
11b	1Mbps	1	11	2462	18.16	-	-	30.00	-	2.80	3.00	20.96	-	36.00	-	Pass
11g	6Mbps	1	1	2412	24.55	-	-	30.00	-	2.80	3.00	27.35	-	36.00	-	Pass
11g	6Mbps	1	6	2437	24.80	-	-	30.00	-	2.80	3.00	27.60	-	36.00	-	Pass
11g	6Mbps	1	11	2462	23.55	-	-	30.00	-	2.80	3.00	26.35	-	36.00	-	Pass

2.4GHz Band MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
HT20	MCS0	2	1	2412	20.64	20.48	23.57	30.00		3.00		26.57		36.00		Pass
HT20	MCS0	2	6	2437	24.56	24.58	27.58	30.00		3.00		30.58		36.00		Pass
HT20	MCS0	2	11	2462	22.48	22.55	25.53	30.00		3.00		28.53		36.00		Pass

Note: Measured power (dBm) has offset with cable loss.

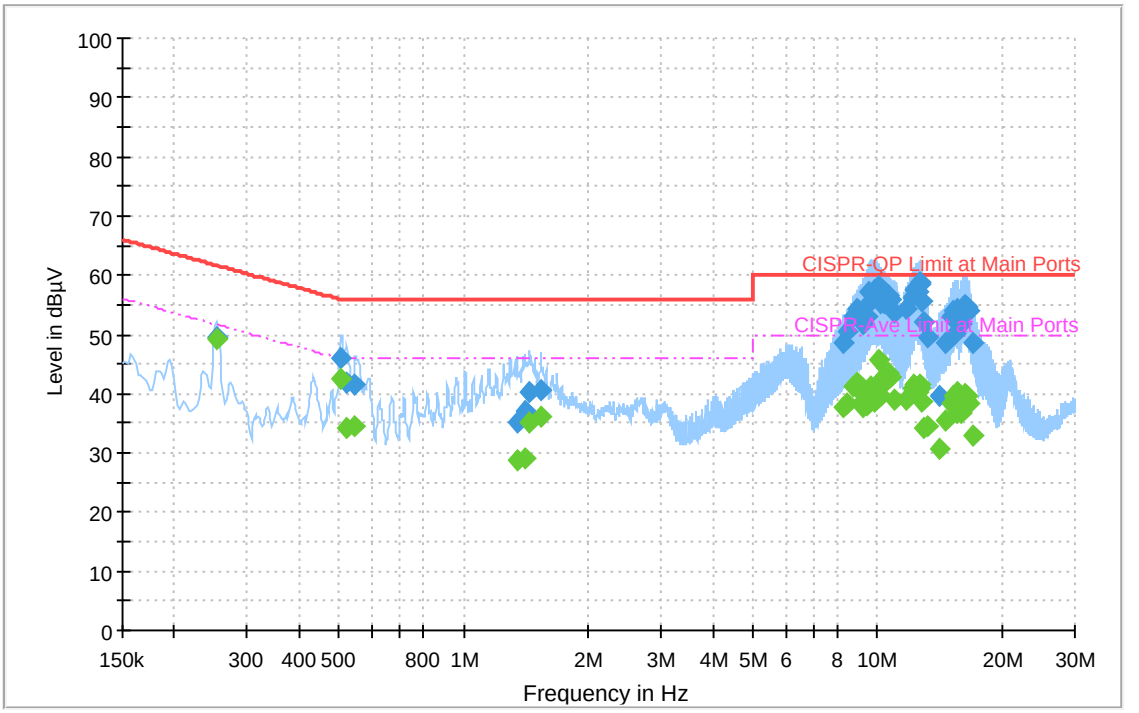
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Yuan Lee	**Temperature :**	19~25℃
		Relative Humidity :	37~44%

EUT Information

Site:	CO01-CA
Power:	120Vac/60Hz
Project	210727003
Mode	2

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.252168	---	49.08	51.69	2.61	L1	OFF	20.3
0.252168	49.60	---	61.69	12.09	L1	OFF	20.3
0.505941	---	42.50	46.00	3.50	L1	OFF	20.3
0.505941	45.87	---	56.00	10.13	L1	OFF	20.3
0.520962	---	34.09	46.00	11.91	L1	OFF	20.3
0.520962	41.88	---	56.00	14.12	L1	OFF	20.3
0.546567	---	34.58	46.00	11.42	L1	OFF	20.3
0.546567	41.68	---	56.00	14.32	L1	OFF	20.3
1.340970	---	28.77	46.00	17.23	L1	OFF	20.3
1.340970	35.14	---	56.00	20.86	L1	OFF	20.3
1.408479	---	29.11	46.00	16.89	L1	OFF	20.3
1.408479	37.18	---	56.00	18.82	L1	OFF	20.3
1.436937	---	35.00	46.00	11.00	L1	OFF	20.3
1.436937	40.12	---	56.00	15.88	L1	OFF	20.3
1.536738	---	36.24	46.00	9.76	L1	OFF	20.3
1.536738	40.63	---	56.00	15.37	L1	OFF	20.3
8.302722	---	37.80	50.00	12.20	L1	OFF	20.4
8.302722	48.71	---	60.00	11.29	L1	OFF	20.4
8.435661	---	38.31	50.00	11.69	L1	OFF	20.4
8.435661	50.42	---	60.00	9.58	L1	OFF	20.4
8.688804	---	41.10	50.00	8.90	L1	OFF	20.4

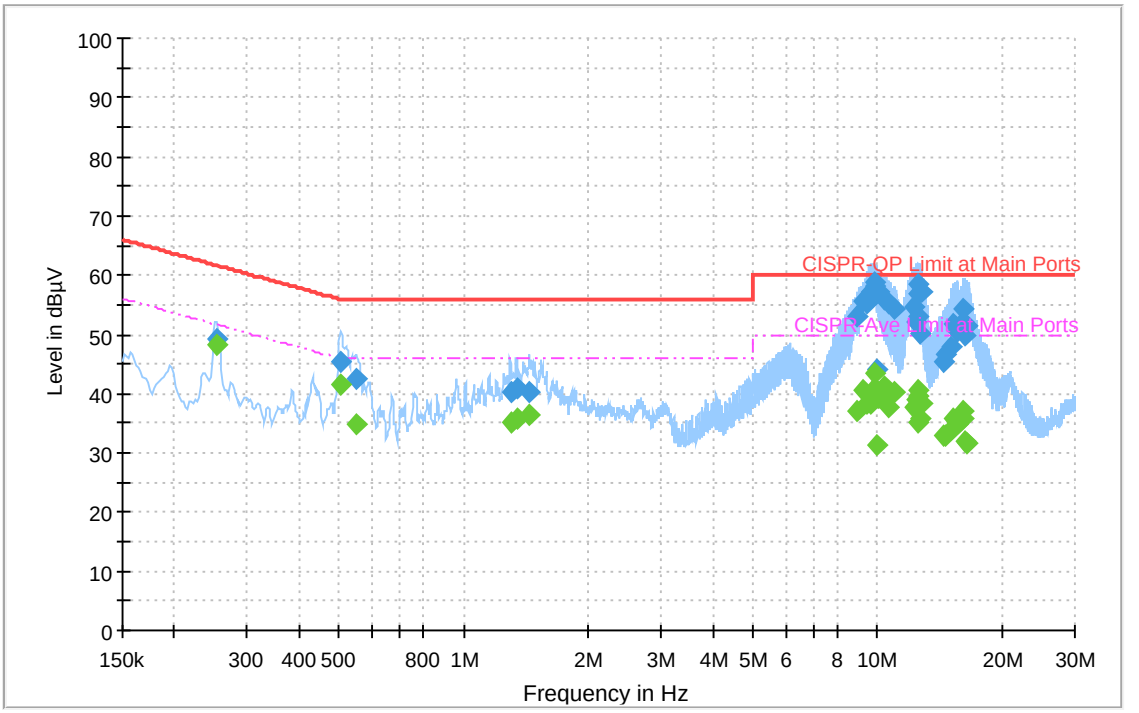
Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
8.688804	53.01	---	60.00	6.99	L1	OFF	20.4
8.880558	---	41.98	50.00	8.02	L1	OFF	20.4
8.880558	54.31	---	60.00	5.69	L1	OFF	20.4
9.009186	---	40.59	50.00	9.41	L1	OFF	20.4
9.009186	54.06	---	60.00	5.94	L1	OFF	20.4
9.140487	---	38.49	50.00	11.51	L1	OFF	20.4
9.140487	52.24	---	60.00	7.76	L1	OFF	20.4
9.257460	---	37.61	50.00	12.39	L1	OFF	20.4
9.257460	51.89	---	60.00	8.11	L1	OFF	20.4
9.385233	---	37.91	50.00	12.09	L1	OFF	20.4
9.385233	53.04	---	60.00	6.96	L1	OFF	20.4
9.513258	---	40.49	50.00	9.51	L1	OFF	20.4
9.513258	57.08	---	60.00	2.92	L1	OFF	20.4
9.643326	---	41.12	50.00	8.88	L1	OFF	20.5
9.643326	55.58	---	60.00	4.42	L1	OFF	20.5
9.831966	---	38.55	50.00	11.45	L1	OFF	20.5
9.831966	57.52	---	60.00	2.48	L1	OFF	20.5
9.962088	---	41.54	50.00	8.46	L1	OFF	20.5
9.962088	57.12	---	60.00	2.88	L1	OFF	20.5
10.094388	---	45.64	50.00	4.36	L1	OFF	20.5
10.094388	58.30	---	60.00	1.70	L1	OFF	20.5
10.215996	---	39.70	50.00	10.30	L1	OFF	20.5
10.215996	55.37	---	60.00	4.63	L1	OFF	20.5
10.347189	---	41.74	50.00	8.26	L1	OFF	20.5
10.347189	55.30	---	60.00	4.70	L1	OFF	20.5
10.478742	---	43.37	50.00	6.63	L1	OFF	20.5
10.478742	56.30	---	60.00	3.70	L1	OFF	20.5
10.604544	---	43.55	50.00	6.45	L1	OFF	20.5
10.604544	56.45	---	60.00	3.55	L1	OFF	20.5
10.735215	---	42.81	50.00	7.19	L1	OFF	20.5
10.735215	55.77	---	60.00	4.23	L1	OFF	20.5
10.925457	---	38.94	50.00	11.06	L1	OFF	20.5
10.925457	53.59	---	60.00	6.41	L1	OFF	20.5
11.757327	---	39.08	50.00	10.92	L1	OFF	20.5
11.757327	54.46	---	60.00	5.54	L1	OFF	20.5
12.076512	---	40.76	50.00	9.24	L1	OFF	20.5
12.076512	56.20	---	60.00	3.80	L1	OFF	20.5
12.202467	---	41.42	50.00	8.58	L1	OFF	20.5
12.202467	57.63	---	60.00	2.37	L1	OFF	20.5
12.330249	---	40.33	50.00	9.67	L1	OFF	20.5
12.330249	56.76	---	60.00	3.24	L1	OFF	20.5
12.460146	---	40.19	50.00	9.81	L1	OFF	20.5
12.460146	57.23	---	60.00	2.77	L1	OFF	20.5
12.588018	---	41.57	50.00	8.43	L1	OFF	20.5
12.588018	58.86	---	60.00	1.14	L1	OFF	20.5
12.713964	---	41.05	50.00	8.95	L1	OFF	20.5
12.713964	58.47	---	60.00	1.53	L1	OFF	20.5
12.842673	---	38.53	50.00	11.47	L1	OFF	20.5
12.842673	55.61	---	60.00	4.39	L1	OFF	20.5
12.972660	---	34.11	50.00	15.89	L1	OFF	20.5
12.972660	52.19	---	60.00	7.81	L1	OFF	20.5
13.159545	---	34.62	50.00	15.38	L1	OFF	20.5
13.159545	49.67	---	60.00	10.33	L1	OFF	20.5
14.170533	---	30.52	50.00	19.48	L1	OFF	20.5
14.170533	39.59	---	60.00	20.41	L1	OFF	20.5
14.631153	---	35.54	50.00	14.46	L1	OFF	20.5
14.631153	48.51	---	60.00	11.49	L1	OFF	20.5
15.134748	---	38.48	50.00	11.52	L1	OFF	20.5
15.134748	53.09	---	60.00	6.91	L1	OFF	20.5
15.265356	---	39.65	50.00	10.35	L1	OFF	20.5
15.265356	54.05	---	60.00	5.95	L1	OFF	20.5
15.389745	---	37.70	50.00	12.30	L1	OFF	20.5
15.389745	50.23	---	60.00	9.77	L1	OFF	20.5

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
15.515439	---	36.76	50.00	13.24	L1	OFF	20.5
15.515439	53.49	---	60.00	6.51	L1	OFF	20.5
15.644922	---	40.28	50.00	9.72	L1	OFF	20.5
15.644922	54.33	---	60.00	5.67	L1	OFF	20.5
15.975078	---	36.86	50.00	13.14	L1	OFF	20.5
15.975078	51.62	---	60.00	8.38	L1	OFF	20.5
16.100493	---	39.15	50.00	10.85	L1	OFF	20.5
16.100493	54.58	---	60.00	5.42	L1	OFF	20.5
16.230003	---	39.04	50.00	10.96	L1	OFF	20.5
16.230003	54.66	---	60.00	5.34	L1	OFF	20.5
16.355562	---	39.94	50.00	10.06	L1	OFF	20.5
16.355562	54.95	---	60.00	5.05	L1	OFF	20.5
16.482138	---	39.64	50.00	10.36	L1	OFF	20.5
16.482138	54.61	---	60.00	5.39	L1	OFF	20.5
16.610973	---	38.24	50.00	11.76	L1	OFF	20.5
16.610973	54.10	---	60.00	5.90	L1	OFF	20.5
17.060010	---	32.99	50.00	17.01	L1	OFF	20.5
17.060010	48.59	---	60.00	11.41	L1	OFF	20.5

EUT Information

Site:	CO01-CA
Power:	120Vac/60Hz
Project	210727003
Mode	2

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.253329	---	48.39	51.65	3.26	N	OFF	20.3
0.253329	49.32	---	61.65	12.33	N	OFF	20.3
0.506409	---	41.54	46.00	4.46	N	OFF	20.3
0.506409	45.45	---	56.00	10.55	N	OFF	20.3
0.548565	---	34.86	46.00	11.14	N	OFF	20.3
0.548565	42.54	---	56.00	13.46	N	OFF	20.3
1.298085	---	35.29	46.00	10.71	N	OFF	20.3
1.298085	40.21	---	56.00	15.79	N	OFF	20.3
1.341951	---	35.85	46.00	10.15	N	OFF	20.3
1.341951	40.81	---	56.00	15.19	N	OFF	20.3
1.439997	---	36.44	46.00	9.56	N	OFF	20.3
1.439997	40.36	---	56.00	15.64	N	OFF	20.3
8.944080	---	37.03	50.00	12.97	N	OFF	20.4
8.944080	53.11	---	60.00	6.89	N	OFF	20.4
9.198969	---	40.51	50.00	9.49	N	OFF	20.4
9.198969	55.47	---	60.00	4.53	N	OFF	20.4
9.446181	---	38.47	50.00	11.53	N	OFF	20.4
9.446181	55.17	---	60.00	4.83	N	OFF	20.4
9.635109	---	38.42	50.00	11.58	N	OFF	20.4
9.635109	57.25	---	60.00	2.75	N	OFF	20.4
9.764367	---	39.40	50.00	10.60	N	OFF	20.4

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
9.764367	57.04	---	60.00	2.96	N	OFF	20.4
9.834126	---	43.32	50.00	6.68	N	OFF	20.4
9.834126	58.71	---	60.00	1.29	N	OFF	20.4
9.890898	---	40.93	50.00	9.07	N	OFF	20.4
9.890898	58.28	---	60.00	1.72	N	OFF	20.4
9.952026	---	31.24	50.00	18.76	N	OFF	20.4
9.952026	44.06	---	60.00	15.94	N	OFF	20.4
10.093776	---	39.40	50.00	10.60	N	OFF	20.5
10.093776	57.06	---	60.00	2.94	N	OFF	20.5
10.415238	---	41.36	50.00	8.64	N	OFF	20.5
10.415238	55.97	---	60.00	4.03	N	OFF	20.5
10.671594	---	37.80	50.00	12.20	N	OFF	20.5
10.671594	55.36	---	60.00	4.64	N	OFF	20.5
10.988844	---	40.17	50.00	9.83	N	OFF	20.5
10.988844	54.30	---	60.00	5.70	N	OFF	20.5
12.203457	---	37.68	50.00	12.32	N	OFF	20.5
12.203457	54.63	---	60.00	5.37	N	OFF	20.5
12.391179	---	39.05	50.00	10.95	N	OFF	20.5
12.391179	52.22	---	60.00	7.78	N	OFF	20.5
12.459867	---	35.29	50.00	14.71	N	OFF	20.5
12.459867	52.98	---	60.00	7.02	N	OFF	20.5
12.522813	---	40.57	50.00	9.43	N	OFF	20.5
12.522813	58.31	---	60.00	1.69	N	OFF	20.5
12.584679	---	39.56	50.00	10.44	N	OFF	20.5
12.584679	56.99	---	60.00	3.01	N	OFF	20.5
12.652035	---	35.68	50.00	14.32	N	OFF	20.5
12.652035	50.24	---	60.00	9.76	N	OFF	20.5
12.777594	---	38.49	50.00	11.51	N	OFF	20.5
12.777594	57.27	---	60.00	2.73	N	OFF	20.5
14.424414	---	32.85	50.00	17.15	N	OFF	20.5
14.424414	45.51	---	60.00	14.49	N	OFF	20.5
14.544141	---	32.76	50.00	17.24	N	OFF	20.5
14.544141	46.75	---	60.00	13.25	N	OFF	20.5
15.125820	---	33.78	50.00	16.22	N	OFF	20.5
15.125820	47.86	---	60.00	12.14	N	OFF	20.5
15.254988	---	35.78	50.00	14.22	N	OFF	20.5
15.254988	51.81	---	60.00	8.19	N	OFF	20.5
15.514413	---	34.85	50.00	15.15	N	OFF	20.5
15.514413	50.54	---	60.00	9.46	N	OFF	20.5
16.035909	---	35.74	50.00	14.26	N	OFF	20.5
16.035909	51.96	---	60.00	8.04	N	OFF	20.5
16.164987	---	37.06	50.00	12.94	N	OFF	20.5
16.164987	54.43	---	60.00	5.57	N	OFF	20.5
16.356714	---	32.05	50.00	17.95	N	OFF	20.5
16.356714	49.72	---	60.00	10.28	N	OFF	20.5
16.479564	---	31.70	50.00	18.30	N	OFF	20.5
16.479564	51.31	---	60.00	8.69	N	OFF	20.5

Appendix C. Radiated Spurious Emission

Test Engineer :	Michael Bui, Yuan Lee, Fu Chen	Temperature :	20~24°C
		Relative Humidity :	42~48%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2387.175	58.64	-15.36	74	44.8	27.69	17.43	31.28	140	168	P	H
		2387.49	50.84	-3.16	54	37	27.69	17.43	31.28	140	168	A	H
	*	2412	108.59	-	-	94.73	27.66	17.47	31.27	140	168	P	H
	*	2412	106.09	-	-	92.23	27.66	17.47	31.27	140	168	A	H
													H
													H
		2385.705	56.32	-17.68	74	42.37	27.8	17.43	31.28	375	73	P	V
		2387.385	46.51	-7.49	54	32.57	27.79	17.43	31.28	375	73	A	V
	*	2412	103.81	-	-	89.91	27.7	17.47	31.27	375	73	P	V
	*	2412	101.3	-	-	87.4	27.7	17.47	31.27	375	73	A	V
													V
													V
802.11b CH 06 2437MHz		2315.28	55.35	-18.65	74	41.42	27.95	17.3	31.32	136	136	P	H
		2389.68	44.59	-9.41	54	30.76	27.68	17.43	31.28	136	136	A	H
	*	2437	109.99	-	-	96.09	27.66	17.5	31.26	136	136	P	H
	*	2437	107.44	-	-	93.54	27.66	17.5	31.26	136	136	A	H
		2490.88	55.18	-18.82	74	41.2	27.62	17.59	31.23	136	136	P	H
		2483.52	44.55	-9.45	54	30.59	27.62	17.58	31.24	136	136	A	H
		2336.88	55.88	-18.12	74	41.94	27.92	17.33	31.31	359	242	P	V
		2346	44.38	-9.62	54	30.43	27.91	17.35	31.31	359	242	A	V
	*	2437	104.33	-	-	90.49	27.6	17.5	31.26	359	242	P	V
	*	2437	101.83	-	-	87.99	27.6	17.5	31.26	359	242	A	V
		2497.6	55.53	-18.47	74	41.67	27.49	17.6	31.23	359	242	P	V
		2497.92	44.24	-9.76	54	30.38	27.49	17.6	31.23	359	242	A	V

802.11b CH 11 2462MHz	*	2462	108.16	-	-	94.21	27.65	17.55	31.25	139	192	P	H
	*	2462	105.64	-	-	91.69	27.65	17.55	31.25	139	192	A	H
		2486.2	56.88	-17.12	74	42.92	27.62	17.58	31.24	139	192	P	H
		2483.52	48.58	-5.42	54	34.62	27.62	17.58	31.24	139	192	A	H
													H
													H
	*	2462	103.61	-	-	89.77	27.54	17.55	31.25	395	118	P	V
	*	2462	101.02	-	-	87.18	27.54	17.55	31.25	395	118	A	V
		2486.28	55.8	-18.2	74	41.96	27.5	17.58	31.24	395	118	P	V
		2483.52	45.68	-8.32	54	31.83	27.51	17.58	31.24	395	118	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		4824	53.7	-20.3	74	78.64	31.49	11.45	67.88	295	175	P	H
		4824	50.81	-3.19	54	75.75	31.49	11.45	67.88	295	175	A	H
		10935	49.96	-24.04	74	61.01	40.18	17.22	68.45	-	-	P	H
		10935	38.4	-15.6	54	49.45	40.18	17.22	68.45	-	-	A	H
		14490	51.15	-22.85	74	56.99	41.94	20.2	67.98	-	-	P	H
		14490	41.81	-12.19	54	47.65	41.94	20.2	67.98	-	-	A	H
		17985	58.41	-15.59	74	57.98	48.43	21.9	69.9	-	-	P	H
		17985	48.67	-5.33	54	48.24	48.43	21.9	69.9	-	-	A	H
													H
													H
													H
													H
		4824	46.44	-27.56	74	71.33	31.54	11.45	67.88	399	228	P	V
		4824	42.94	-11.06	54	67.83	31.54	11.45	67.88	399	228	A	V
		10905	49.03	-24.97	74	60.35	40.04	17.2	68.56	-	-	P	V
		10905	38.33	-15.67	54	49.65	40.04	17.2	68.56	-	-	A	V
		14490	50.54	-23.46	74	56.38	41.94	20.2	67.98	-	-	P	V
		14490	41.85	-12.15	54	47.69	41.94	20.2	67.98	-	-	A	V
		18000	58.58	-15.42	74	57.35	49.04	21.91	69.72	-	-	P	V
		18000	49.49	-4.51	54	48.26	49.04	21.91	69.72	-	-	A	V
													V
													V
													V
													V

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 06 2437MHz		4874	51.39	-22.61	74	76.37	31.45	11.48	67.91	327	181	P	H
		4874	49.07	-4.93	54	74.05	31.45	11.48	67.91	327	181	A	H
		7311	48.05	-25.95	74	64.8	36.33	13.91	66.99	100	144	P	H
		7311	41.5	-12.5	54	58.25	36.33	13.91	66.99	100	144	A	H
		11595	50.19	-23.81	74	59.91	40	17.86	67.58	-	-	P	H
		11595	39.81	-14.19	54	49.53	40	17.86	67.58	-	-	A	H
		14490	51.06	-22.94	74	56.9	41.94	20.2	67.98	-	-	P	H
		14490	41.77	-12.23	54	47.61	41.94	20.2	67.98	-	-	A	H
		18000	58.11	-15.89	74	57.1	48.82	21.91	69.72	-	-	P	H
		18000	49.17	-4.83	54	48.16	48.82	21.91	69.72	-	-	A	H
													H
													H
		4874	45.26	-28.74	74	70.28	31.41	11.48	67.91	392	220	P	V
		4874	41.7	-12.3	54	66.72	31.41	11.48	67.91	392	220	A	V
		7311	48.57	-25.43	74	65.28	36.37	13.91	66.99	342	252	P	V
		7311	42.67	-11.33	54	59.38	36.37	13.91	66.99	342	252	A	V
		11325	49.65	-24.35	74	60.56	39.76	17.59	68.26	-	-	P	V
		11325	38.68	-15.32	54	49.59	39.76	17.59	68.26	-	-	A	V
		14490	50.64	-23.36	74	56.48	41.94	20.2	67.98	-	-	P	V
		14490	41.85	-12.15	54	47.69	41.94	20.2	67.98	-	-	A	V
		17985	58.57	-15.43	74	57.87	48.7	21.9	69.9	-	-	P	V
		17985	48.88	-5.12	54	48.18	48.7	21.9	69.9	-	-	A	V
													V
													V

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 11 2462MHz		4924	48.05	-25.95	74	73.1	31.45	11.49	67.99	319	180	P	H
		4924	44.86	-9.14	54	69.91	31.45	11.49	67.99	319	180	A	H
		7386	44.79	-29.21	74	61.77	36.4	14	67.38	-	-	P	H
		11655	49.84	-24.16	74	59.82	39.71	17.91	67.6	-	-	P	H
		11655	39.34	-14.66	54	49.32	39.71	17.91	67.6	-	-	A	H
		14490	50.98	-23.02	74	56.82	41.94	20.2	67.98	-	-	P	H
		14490	41.8	-12.2	54	47.64	41.94	20.2	67.98	-	-	A	H
		18000	58.08	-15.92	74	57.07	48.82	21.91	69.72	-	-	P	H
		18000	49.2	-4.8	54	48.19	48.82	21.91	69.72	-	-	A	H
													H
													H
													H
		4924	42.86	-31.14	74	68.03	31.33	11.49	67.99	399	220	P	V
		4924	36.78	-17.22	54	61.95	31.33	11.49	67.99	399	220	A	V
		7386	44.7	-29.3	74	61.59	36.49	14	67.38	-	-	P	V
		11685	49.76	-24.24	74	59.9	39.55	17.94	67.63	-	-	P	V
		11685	39.17	-14.83	54	49.31	39.55	17.94	67.63	-	-	A	V
		14490	50.88	-23.12	74	56.72	41.94	20.2	67.98	-	-	P	V
		14490	41.83	-12.17	54	47.67	41.94	20.2	67.98	-	-	A	V
		18000	58.32	-15.68	74	57.09	49.04	21.91	69.72	-	-	P	V
		18000	49.36	-4.64	54	48.13	49.04	21.91	69.72	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz		2389.905	65.65	-8.35	74	51.82	27.68	17.43	31.28	250	150	P	H
		2390	48.23	-5.77	54	34.4	27.68	17.43	31.28	250	150	A	H
	*	2412	108.7	-	-	94.84	27.66	17.47	31.27	250	150	P	H
	*	2412	101.44	-	-	87.58	27.66	17.47	31.27	250	150	A	H
													H
													H
		2389.065	59.1	-14.9	74	45.17	27.78	17.43	31.28	375	67	P	V
		2390	45.6	-8.4	54	31.67	27.78	17.43	31.28	375	67	A	V
	*	2412	103.27	-	-	89.37	27.7	17.47	31.27	375	67	P	V
	*	2412	96.11	-	-	82.21	27.7	17.47	31.27	375	67	A	V
													V
													V
802.11g CH 06 2437MHz		2389.36	65.07	-8.93	74	51.24	27.68	17.43	31.28	254	154	P	H
		2390	53.86	-0.14	54	40.03	27.68	17.43	31.28	254	154	A	H
	*	2437	112.32	-	-	98.42	27.66	17.5	31.26	254	154	P	H
	*	2437	105.16	-	-	91.26	27.66	17.5	31.26	254	154	A	H
		2483.92	61.42	-12.58	74	47.46	27.62	17.58	31.24	254	154	P	H
		2483.52	50.2	-3.8	54	36.24	27.62	17.58	31.24	254	154	A	H
		2389.04	58.66	-15.34	74	44.73	27.78	17.43	31.28	400	244	P	V
		2389.36	46.64	-7.36	54	32.71	27.78	17.43	31.28	400	244	A	V
	*	2437	109.05	-	-	95.21	27.6	17.5	31.26	400	244	P	V
	*	2437	101.63	-	-	87.79	27.6	17.5	31.26	400	244	A	V
		2485.28	58.1	-15.9	74	44.25	27.51	17.58	31.24	400	244	P	V
		2483.52	46.8	-7.2	54	32.95	27.51	17.58	31.24	400	244	A	V

802.11g CH 11 2462MHz	*	2462	109.03	-	-	95.08	27.65	17.55	31.25	136	194	P	H
	*	2462	102.03	-	-	88.08	27.65	17.55	31.25	136	194	A	H
		2483.52	68.08	-5.92	74	54.12	27.62	17.58	31.24	136	194	P	H
		2483.52	52.28	-1.72	54	38.32	27.62	17.58	31.24	136	194	A	H
													H
													H
	*	2462	104.65	-	-	90.81	27.54	17.55	31.25	395	114	P	V
	*	2462	97.44	-	-	83.6	27.54	17.55	31.25	395	114	A	V
		2483.72	62.12	-11.88	74	48.27	27.51	17.58	31.24	395	114	P	V
		2483.52	48.02	-5.98	54	34.17	27.51	17.58	31.24	395	114	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz		4824	47.39	-26.61	74	72.33	31.49	11.45	67.88	313	178	P	H
		4824	36.95	-17.05	54	61.89	31.49	11.45	67.88	313	178	A	H
		11370	49.76	-24.24	74	60.35	39.94	17.63	68.16	-	-	P	H
		11370	38.73	-15.27	54	49.32	39.94	17.63	68.16	-	-	A	H
		14490	52.11	-21.89	74	57.95	41.94	20.2	67.98	-	-	P	H
		14490	41.8	-12.2	54	47.64	41.94	20.2	67.98	-	-	A	H
		17985	59.25	-14.75	74	58.82	48.43	21.9	69.9	-	-	P	H
		17985	48.56	-5.44	54	48.13	48.43	21.9	69.9	-	-	A	H
													H
													H
													H
													H
		4824	41.23	-32.77	74	66.12	31.54	11.45	67.88	-	-	P	V
		11355	49.65	-24.35	74	60.39	39.84	17.62	68.2	-	-	P	V
		11355	38.69	-15.31	54	49.43	39.84	17.62	68.2	-	-	A	V
		14490	51.37	-22.63	74	57.21	41.94	20.2	67.98	-	-	P	V
		14490	41.82	-12.18	54	47.66	41.94	20.2	67.98	-	-	A	V
		18000	59.14	-14.86	74	57.91	49.04	21.91	69.72	-	-	P	V
		18000	49.36	-4.64	54	48.13	49.04	21.91	69.72	-	-	A	V
													V
													V
													V
													V
													V

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 06 2437MHz		4874	50.09	-23.91	74	75.07	31.45	11.48	67.91	327	187	P	H
		4874	40.29	-13.71	54	65.27	31.45	11.48	67.91	327	187	A	H
		7311	52.1	-21.9	74	68.85	36.33	13.91	66.99	371	201	P	H
		7311	41.06	-12.94	54	57.81	36.33	13.91	66.99	371	201	A	H
		12060	50.34	-23.66	74	60.22	39.28	18.3	67.46	-	-	P	H
		12060	39.43	-14.57	54	49.31	39.28	18.3	67.46	-	-	A	H
		14490	50.68	-23.32	74	56.52	41.94	20.2	67.98	-	-	P	H
		14490	41.78	-12.22	54	47.62	41.94	20.2	67.98	-	-	A	H
		18000	58.17	-15.83	74	57.16	48.82	21.91	69.72	-	-	P	H
		18000	49.14	-4.86	54	48.13	48.82	21.91	69.72	-	-	A	H
													H
													H
		4874	43.71	-30.29	74	68.73	31.41	11.48	67.91	393	221	P	V
		4874	33.68	-20.32	54	58.7	31.41	11.48	67.91	393	221	A	V
		7311	51.96	-22.04	74	68.67	36.37	13.91	66.99	305	255	P	V
		7311	40.62	-13.38	54	57.33	36.37	13.91	66.99	305	255	A	V
		11610	49.69	-24.31	74	59.47	39.92	17.87	67.57	-	-	P	V
		11610	39.42	-14.58	54	49.2	39.92	17.87	67.57	-	-	A	V
		14490	51.43	-22.57	74	57.27	41.94	20.2	67.98	-	-	P	V
		14490	41.79	-12.21	54	47.63	41.94	20.2	67.98	-	-	A	V
		17985	58.04	-15.96	74	57.34	48.7	21.9	69.9	-	-	P	V
		17985	48.87	-5.13	54	48.17	48.7	21.9	69.9	-	-	A	V
													V
													V

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 11 2462MHz		4924	42.26	-31.74	74	67.31	31.45	11.49	67.99	-	-	P	H
		7386	45.24	-28.76	74	62.22	36.4	14	67.38	-	-	P	H
		11055	49.86	-24.14	74	60.58	40.08	17.34	68.14	-	-	P	H
		11055	38.39	-15.61	54	49.11	40.08	17.34	68.14	-	-	A	H
		14490	51.19	-22.81	74	57.03	41.94	20.2	67.98	-	-	P	H
		14490	41.78	-12.22	54	47.62	41.94	20.2	67.98	-	-	A	H
		17985	58.1	-15.9	74	57.67	48.43	21.9	69.9	-	-	P	H
		17985	48.63	-5.37	54	48.2	48.43	21.9	69.9	-	-	A	H
													H
													H
													H
													H
		4924	39.06	-34.94	74	64.23	31.33	11.49	67.99	-	-	P	V
		7386	44.91	-29.09	74	61.8	36.49	14	67.38	-	-	P	V
		10950	50.8	-23.2	74	61.83	40.13	17.24	68.4	-	-	P	V
		10950	38.39	-15.61	54	49.42	40.13	17.24	68.4	-	-	A	V
		14490	51.62	-22.38	74	57.46	41.94	20.2	67.98	-	-	P	V
		14490	41.81	-12.19	54	47.65	41.94	20.2	67.98	-	-	A	V
		18000	58.68	-15.32	74	57.45	49.04	21.91	69.72	-	-	P	V
		18000	49.46	-4.54	54	48.23	49.04	21.91	69.72	-	-	A	V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Emission above 18GHz

2.4GHz WIFI 802.11g (SHF)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11g SHF		22298	37.88	-36.12	74	37.6	38.45	14.07	52.24	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		22347	37.76	-36.24	74	37.54	38.33	14.11	52.22	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only												

Emission below 1GHz

2.4GHz WIFI 802.11g (LF)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11g LF		78.5	31.05	-8.95	40	48.48	13.55	1.44	32.42	-	-	P	H
		152.22	23.09	-20.41	43.5	36.31	17.18	2	32.4	-	-	P	H
		357.86	41.39	-4.61	46	49.91	20.91	3.05	32.48	100	94	Q	H
		742.95	39.36	-6.64	46	39.28	28.06	4.44	32.42	-	-	P	H
		891.36	38.46	-7.54	46	36.07	29.23	4.85	31.69	-	-	P	H
		950.53	36.27	-9.73	46	31.26	31.22	5.01	31.22	-	-	P	H
													H
													H
													H
													H
													H
													H
		79.47	27.06	-12.94	40	44.38	13.65	1.45	32.42	-	-	P	V
		155.13	21.72	-21.78	43.5	35.11	16.99	2.02	32.4	-	-	P	V
		358.83	36.63	-9.37	46	45.11	20.95	3.05	32.48	133	360	Q	V
		742.95	34.52	-11.48	46	34.44	28.06	4.44	32.42	-	-	P	V
		891.36	34.55	-11.45	46	32.16	29.23	4.85	31.69	-	-	P	V
		950.53	35.43	-10.57	46	30.42	31.22	5.01	31.22	-	-	P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.												

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		2387.385	58.86	-15.14	74	45.02	27.69	17.43	31.28	162	173	P	H
		2389.905	47.73	-6.27	54	33.9	27.68	17.43	31.28	162	173	A	H
	*	2412	107.88	-	-	94.02	27.66	17.47	31.27	162	173	P	H
	*	2412	101.01	-	-	87.15	27.66	17.47	31.27	162	173	A	H
													H
													H
		2376.99	56.21	-17.79	74	42.27	27.82	17.41	31.29	362	235	P	V
		2389.8	45.2	-8.8	54	31.27	27.78	17.43	31.28	362	235	A	V
	*	2412	101.29	-	-	87.39	27.7	17.47	31.27	362	235	P	V
	*	2412	94.76	-	-	80.86	27.7	17.47	31.27	362	235	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2387.76	60.23	-13.77	74	46.39	27.69	17.43	31.28	329	156	P	H
		2390	49.15	-4.85	54	35.32	27.68	17.43	31.28	329	156	A	H
	*	2437	112.19	-	-	98.29	27.66	17.5	31.26	329	156	P	H
	*	2437	105.62	-	-	91.72	27.66	17.5	31.26	329	156	A	H
		2484.16	57.77	-16.23	74	43.81	27.62	17.58	31.24	329	156	P	H
		2483.52	46.97	-7.03	54	33.01	27.62	17.58	31.24	329	156	A	H
		2386.8	56.1	-17.9	74	42.16	27.79	17.43	31.28	357	246	P	V
		2390	45.56	-8.44	54	31.63	27.78	17.43	31.28	357	246	A	V
	*	2437	109.87	-	-	96.03	27.6	17.5	31.26	357	246	P	V
	*	2437	103.31	-	-	89.47	27.6	17.5	31.26	357	246	A	V
		2490.48	55.52	-18.48	74	41.66	27.5	17.59	31.23	357	246	P	V
		2483.52	44.85	-9.15	54	31	27.51	17.58	31.24	357	246	A	V

802.11n HT20 CH 11 2462MHz	*	2462	111.39	-	-	97.44	27.65	17.55	31.25	208	184	P	H
	*	2462	104.77	-	-	90.82	27.65	17.55	31.25	208	184	A	H
		2483.68	65.11	-8.89	74	51.15	27.62	17.58	31.24	208	184	P	H
		2483.68	49.57	-4.43	54	35.61	27.62	17.58	31.24	208	184	A	H
													H
													H
	*	2462	106.88	-	-	93.04	27.54	17.55	31.25	394	245	P	V
	*	2462	99.6	-	-	85.76	27.54	17.55	31.25	394	245	A	V
		2484.76	58.87	-15.13	74	45.02	27.51	17.58	31.24	394	245	P	V
		2483.6	46.38	-7.62	54	32.53	27.51	17.58	31.24	394	245	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		4824	41.1	-32.9	74	66.04	31.49	11.45	67.88	-	-	P	H
		11430	49.65	-24.35	74	59.83	40.07	17.7	67.95	-	-	P	H
		11430	38.74	-15.26	54	48.92	40.07	17.7	67.95	-	-	A	H
		14490	50.68	-23.32	74	56.52	41.94	20.2	67.98	-	-	P	H
		14490	41.79	-12.21	54	47.63	41.94	20.2	67.98	-	-	A	H
		17985	58.4	-15.6	74	57.97	48.43	21.9	69.9	-	-	P	H
		17985	48.56	-5.44	54	48.13	48.43	21.9	69.9	-	-	A	H
													H
													H
													H
802.11n													H
HT20													H
CH 01		4824	40.37	-33.63	74	65.26	31.54	11.45	67.88	-	-	P	V
2412MHz		10755	50.1	-23.9	74	61.94	39.7	17.04	68.58	-	-	P	V
		10755	37.69	-16.31	54	49.53	39.7	17.04	68.58	-	-	A	V
		14490	51.45	-22.55	74	57.29	41.94	20.2	67.98	-	-	P	V
		14490	41.79	-12.21	54	47.63	41.94	20.2	67.98	-	-	A	V
		18000	58	-16	74	56.77	49.04	21.91	69.72	-	-	P	V
		18000	49.36	-4.64	54	48.13	49.04	21.91	69.72	-	-	A	V
													V
													V
													V
													V
													V

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		4874	47.61	-26.39	74	72.59	31.45	11.48	67.91	291	188	P	H
		4874	36.23	-17.77	54	61.21	31.45	11.48	67.91	291	188	P	H
		7311	44.73	-29.27	74	61.48	36.33	13.91	66.99	-	-	P	P
		11325	49.7	-24.3	74	60.54	39.83	17.59	68.26	-	-	P	P
		11325	38.22	-15.78	54	49.06	39.83	17.59	68.26	-	-	A	H
		14490	50.87	-23.13	74	56.71	41.94	20.2	67.98	-	-	P	H
		14490	41.78	-12.22	54	47.62	41.94	20.2	67.98	-	-	A	H
		17985	57.98	-16.02	74	57.55	48.43	21.9	69.9	-	-	P	H
		17985	48.65	-5.35	54	48.22	48.43	21.9	69.9	-	-	A	H
													H
802.11n													H
HT20													H
CH 06		4874	39	-35	74	64.02	31.41	11.48	67.91	-	-	P	V
2437MHz		7311	45.03	-28.97	74	61.74	36.37	13.91	66.99	-	-	P	V
		12165	49.87	-24.13	74	59.23	39.28	18.39	67.03	-	-	P	V
		12165	38.41	-15.59	54	47.77	39.28	18.39	67.03	-	-	A	V
		14490	51	-23	74	56.84	41.94	20.2	67.98	-	-	P	V
		14490	41.77	-12.23	54	47.61	41.94	20.2	67.98	-	-	A	V
		17985	58.22	-15.78	74	57.52	48.7	21.9	69.9	-	-	P	V
		17985	48.92	-5.08	54	48.22	48.7	21.9	69.9	-	-	A	V
													V
													V
													V
													V

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		4924	41	-33	74	66.05	31.45	11.49	67.99	-	-	P	H
		7386	44.15	-29.85	74	61.13	36.4	14	67.38	-	-	P	H
		11415	49.46	-24.54	74	59.74	40.04	17.68	68	-	-	P	H
		11415	38.71	-15.29	54	48.99	40.04	17.68	68	-	-	A	H
		14490	51.38	-22.62	74	57.22	41.94	20.2	67.98	-	-	P	H
		14490	41.77	-12.23	54	47.61	41.94	20.2	67.98	-	-	A	H
		18000	57.52	-16.48	74	56.51	48.82	21.91	69.72	-	-	P	H
		18000	49.1	-4.9	54	48.09	48.82	21.91	69.72	-	-	A	H
													H
													H
802.11n													H
HT20													H
CH 11		4924	39.31	-34.69	74	64.48	31.33	11.49	67.99	-	-	P	V
2462MHz		7386	45.01	-28.99	74	61.9	36.49	14	67.38	-	-	P	V
		12135	49.39	-24.61	74	58.86	39.26	18.36	67.09	-	-	P	V
		12135	38.43	-15.57	54	47.9	39.26	18.36	67.09	-	-	A	V
		14490	50.62	-23.38	74	56.46	41.94	20.2	67.98	-	-	P	V
		14490	41.78	-12.22	54	47.62	41.94	20.2	67.98	-	-	A	V
		18000	58.22	-15.78	74	56.99	49.04	21.91	69.72	-	-	P	V
		18000	49.35	-4.65	54	48.12	49.04	21.91	69.72	-	-	A	V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Note symbol

*	**Fundamental Frequency** which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is **over limit** line.
P/A	**P**eak or **A**verage
H/V	**H**orizontal or **V**ertical

A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =

Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.

Appendix D. Radiated Spurious Emission Plots

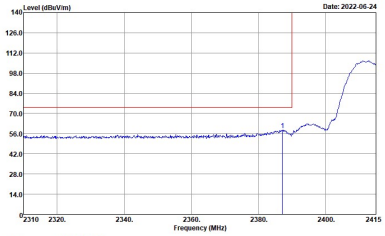
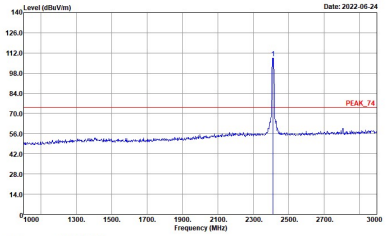
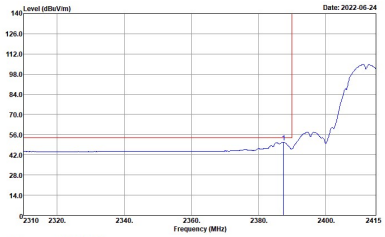
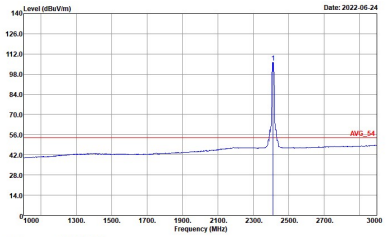
Test Engineer:	Michael Bui, Yuan Lee, Fu Chen	**Temperature :**	20~24°C
		Relative Humidity :	42~48%

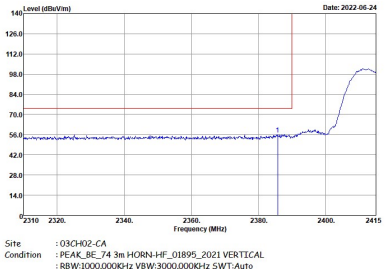
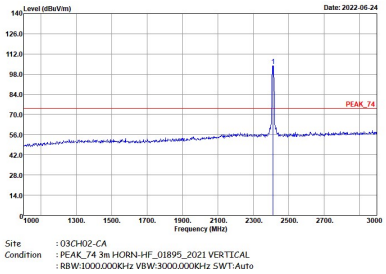
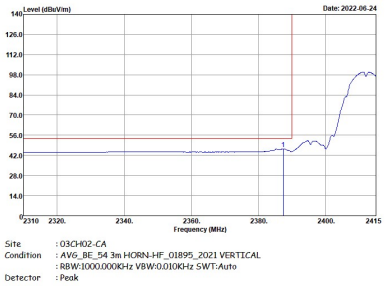
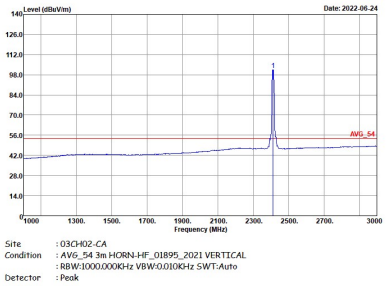
Note symbol

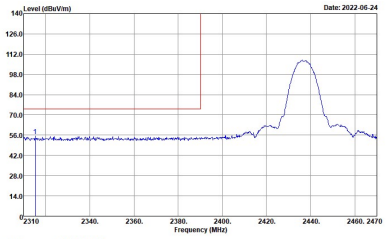
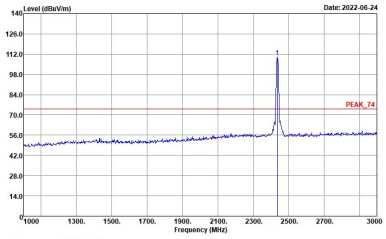
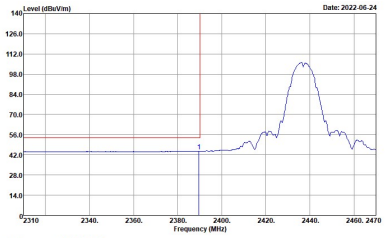
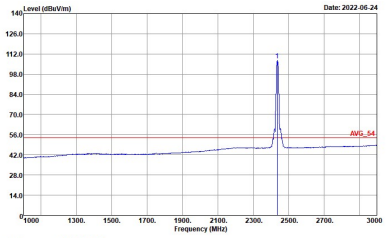
-L	**Low channel location**
-R	**High channel location**

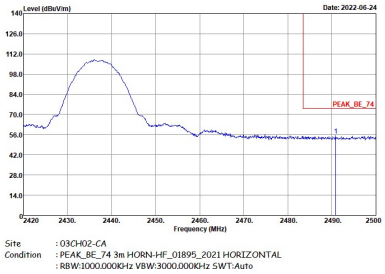
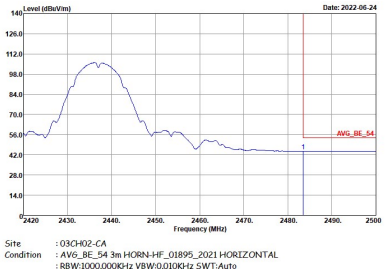
2.4GHz 2400~2483.5MHz

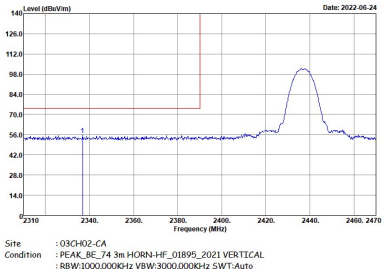
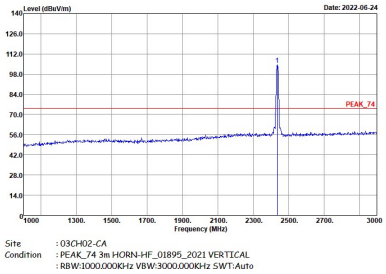
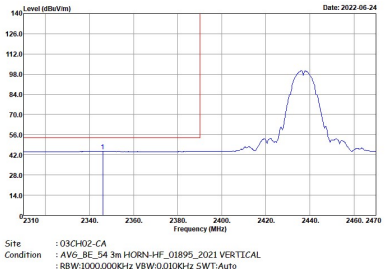
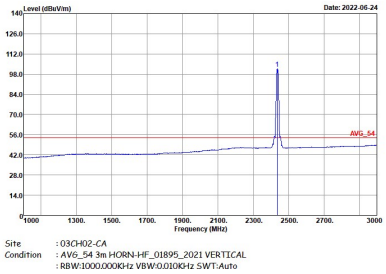
WIFI 802.11b (Band Edge @ 3m)

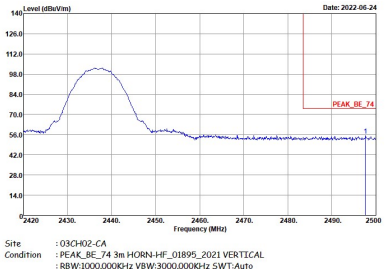
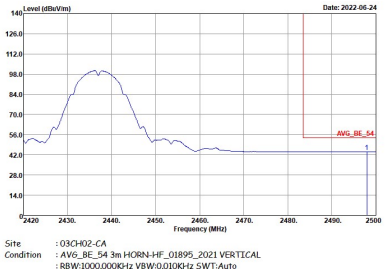
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak		
Avg.		

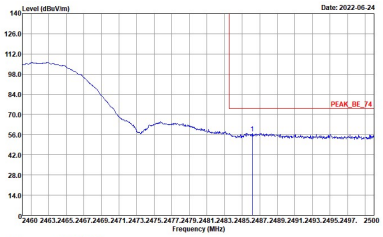
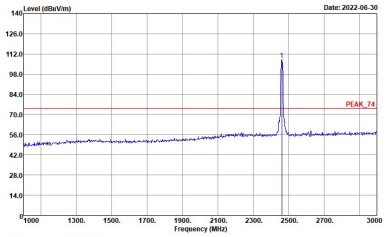
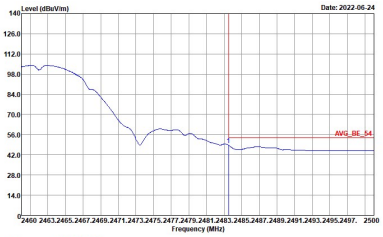
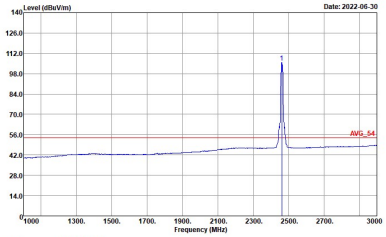
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak		
Avg.		

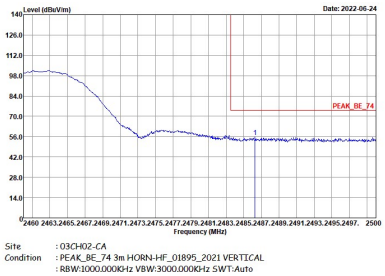
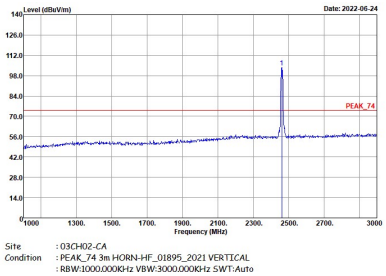
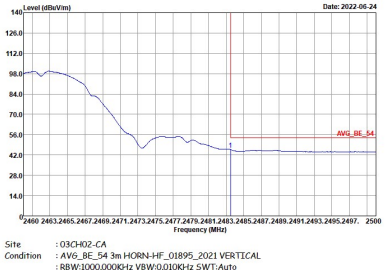
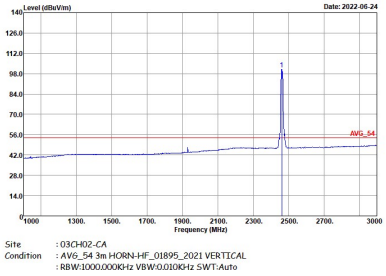
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak		
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak		
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