DEKRA Testing and Certification (Suzhou) Co., Ltd.
No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006, Jiangsu, China
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Test report No:
24A319R-RF-US-P06V01

FCC TEST REPORT

Product Name	POS Terminal
Trademark	
Model and /or type reference	MF960
FCC ID	2AQRE-MF960
Applicant´s name / address	Fujian Morefun Electronic Technology Co., Ltd. 4th Floor, #15 Building, Standard plant, Fuwan, Jinshan Industry Center Area, #869 Panyu Rd, Gaishan Town, Cangshan Area, Fuzhou, Fujian, China
Test method requested, standard	47 CFR FCC Part 15 (Section 15.247) ANSI C63.10: 2013
Verdict Summary	IN COMPLIANCE
Tested by (name / position & signature)	Tim Cao / Project Manager
Approved by (name / position & signature)	Jack Zhang / Manager
Date of issue	2024-12-08
Report Version	V1.0
Report template No	Template_FCC Part 15C-RF-V1.0

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COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.
In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

GENERAL CONDITIONS

Test Location A	No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China
Test Location B	No. 8213, Fanhua Avenue, Baohe District, Hefei City, Anhui Province, China
Date(receive sample)	Oct. 14, 2024
Date (start test)	Oct. 20, 2024
Date (finish test)	Oct. 30, 2024

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
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4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not measured	N/M

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT : Equipment Under Test
QP : Quasi-Peak
CAV : CISPR Average
AV : Average
CDN : Coupling Decoupling Network
SAC : Semi-Anechoic Chamber
OATS : Open Area Test Site
BW : Bandwidth
AM : Amplitude Modulation
PM : Pulse Modulation
HCP : Horizontal Coupling Plane
VCP : Vertical Coupling Plane
U_N : Nominal voltage
*T*x : Transmitter
*R*x : Receiver
N/A : Not Applicable
N/M : Not Measured

DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
24A0319R-RF-US-P06V01	V1.0	Initial issue of report.	2024-12-08

REMARKS AND COMMENTS

1. The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).
2. This report is a limited report on the installation of a test module in a POS Terminal, and the customer declares that the RF parameters of the module installed in the host computer are exactly the same as those of the certified module. We verified the RF output power and radiated emissions of the equipment. For other test data, please refer to FCC ID: 2A9FT-Z400-H.These test results on a sample of the device are for the purpose of demonstrating Compliance with 47 CFR FCC Part 15 (Section 15.247).
3. The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to account the uncertainty associated with the measurement result.
4. The test results presented in this report relate only to the object tested.
5. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd.
6. This report will not be used for social proof function in China market.
7. DEKRA declines any responsibility with the following test data provided by customer that may affect the validity of result:
   - Chapter 1.1 General Description of the Item(s);
   - Chapter 1.2 Antenna Information;
   - Chapter 1.3 Data Rate;
   - Chapter 1.4 Channel List;

USED EQUIPMENT

Test Location A: Conducted Test/ TR8

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Versiom	Software version
Wireless Connectivity Tester	R&S	CMW 270	102593	2024.05.15	2025.05.14	V 4.0.60	N/A
Coaxial Cable	N/A	N/A	2477	2024.06.11	2025.06.10	N/A	N/A
Coaxial Cable	N/A	N/A	2478	2024.06.11	2025.06.10	N/A	N/A
High and low temperature and fast temperature change test box	ASTUOD	ASTD-FBT-225K	N/A	2024.04.21	2025.04.20	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-1909	THM-032	2024.05.17	2025.05.16	N/A	N/A
Test system							
Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Versiom	Software version
MAX Signal Analyzer	Keysight	N9010A	MY48030494	2023.11.08	2024.11.07	A.14.03	N/A
RF Control Unit	Tonscend	JS0806-2	22G8060594	2024.01.31	2025.01.30	N/A	N/A
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY61252529	2024.05.12	2025.05.11	B.01.96	N/A
Frequency extender for EXG or MXG	Keysight	N5182BX07	MY59362500	2024.05.12	2025.05.11	N/A	N/A
EXG-B MW Analog Signal Generator	Keysight	N5173B	MY61252566	2024.07.06	2025.07.05	B.01.95	N/A
Test Software	Tonscend	TS1120	JS1120-3	N/A	N/A	N/A	V3.0.22

Test Location A: AC Power Line Conducted Emission / TR1

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
EMI Test Receiver	R&S	ESCI	100726	2024.07.06	2025.07.05	4.42 SP1	N/A
Two-Line V-Network	R&S	ENV 216	101044	2023.11.08	2024.11.07	N/A	N/A
Two-Line V-Network	R&S	ENV 216	101189	2024.07.06	2025.07.05	N/A	N/A
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2024.07.06	2025.07.05	N/A	N/A
Coaxial Cable	Huber+Suhner	RG 223	TR1-C1	2024.07.06	2025.07.05	N/A	N/A
Impedance Stabilization Network	Teseq GmbH	ISN T800	57318	2024.01.20	2025.01.19	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-1909	THM-011	2024.05.17	2025.05.16	N/A	N/A
Dekra test software	Dekra	N/A	N/A	N/A	N/A	N/A	N/A

Test Location A: Radiated Emission (9KHz-1GHz) / AC2

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Versiom	Software version
EMI Test Receiver	R&S	ESCI	100573	2024.02.06	2025.02.05	4.42 SP3	N/A
Loop Antenna	R&S	HFH2-Z2E	101149	2024.03.27	2025.03.26	N/A	N/A
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2024.03.20	2025.03.19	N/A	N/A
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2024.04.27	2025.04.26	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-1909	THM-021	2024.05.17	2025.05.16	N/A	N/A
Dekra test software	Dekra	N/A	N/A	N/A	N/A	N/A	3

Test Location B: Radiated Emission (1GHz-40GHz) / AC103

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Versiom	Software version
Signal analyzer	keysight	N9020B	MY63490118	2024.07.26	2025.07.25	A 08.54	N/A
Bilog Antenna	TESEQ	CBL6112D	64164	2023.11.03	2024.11.02	N/A	N/A
Horn Antenna	RF SPIN	DRH18-E	KV2D11A18ES	2023.11.07	2024.11.06	N/A	N/A
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	01312	2023.11.07	2024.11.06	N/A	N/A
Amplifier	ESE	LNA0118	LNA23100009	2023.10.30	2024.10.29	N/A	N/A
Amplifier	Tonscend	TAP01018048S	AP23J8060307	2023.11.10	2024.11.09	N/A	N/A
EXG-B MW Analog Signal Generator	Keysight	N5173B	MY61252566	2023.11.08	2024.11.07	N/A	N/A
Band Reject Filter Group	Tonscend	JS0806-F	23G806F0701	2023.11.20	2024.11.19	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	026	2024.09.04	2025.09.03	N/A	N/A
Test Software	Tonscend	JS36	N/A	N/A	N/A	N/A	5.0.0

UNCERTAINTY

Uncertainties have been calculated according to the DEKRA internal document.The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.The Uncertainties is complice with standard required as below.

Test item Test Location A	Uncertainty
AC Power Line Conducted Emission	9kHz~150kHz: 2.80dB 150kHz~30MHz: 2.40dB
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~200MHz: 3.50 dB 300MHz~1GHz: 3.60 dB Vertical: 30MHz~200MHz: 3.60 dB 300MHz~1GHz: 3.50 dB
Radiated Emission(1GHz~26.5GHz)	Horizontal: 1GHz~18GHz: 5.00 dB Vertical: 1GHz~18GHz: 4.80 dB Horizontal: 18GHz~26.5GHz: 5.30 dB Vertical: 18GHz~26.5GHz: 4.90 dB
20dB Bandwidth	± 1 kHz
Carrier Frequency Separation	± 1 kHz
Number of Hopping Frequencies	± 1 kHz
Time of Occupancy (Dwell Time)	± 0.1 us
Peak OutputPower	± 1.27 dB
Emissions in non-restricted frequency bands	± 1.0 dB
Radiated Emission Band Edge	± 3.9 dB

Test item Test Location B	Uncertainty
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~200MHz: 4.86 dB 300MHz~1GHz: 4.86 dB Vertical: 30MHz~200MHz: 4.92 dB 300MHz~1GHz: 4.92 dB
Radiated Emission(1GHz~26.5GHz)	Horizontal: 1GHz~18GHz: 5.99 dB Vertical: 1GHz~18GHz: 5.76 dB Horizontal: 18GHz~26.5GHz: 5.99 dB Vertical: 18GHz~26.5GHz: 5.76 dB
Radiated Emission Band Edge	± 5.99 dB

1 GENERAL INFORMATION

1.1 General Description of the Item(s)

Product Name..... :	POS Terminal
Model No. ..... :	MF960
Trademark. ..... :	
FCC ID ..... :	2AQRE-MF960
Hardware Version ..... :	B30
Software Version..... :	V13.0.1
Manufacturer..... :	Fujian Morefun Electronic Technology Co., Ltd.
Manufacturer Address..... :	4th Floor, #15 Building, Standard plant, Fuwan, Jinshan Industry Center Area, #869 Panyu Rd, Gaishan Town, Cangshan Area, Fuzhou, Fujian, China
Factory ..... :	Fujian Morefun Electronic Technology Co., Ltd.
Factory address ..... :	4th Floor, #15 Building, Standard plant, Fuwan, Jinshan Industry Center Area, #869 Panyu Rd, Gaishan Town, Cangshan Area, Fuzhou, Fujian, China
Operating temperature ..... :	-20 ~ +60 ℃

Wireless Card ..... :	Z400-H	
Wireless specifiction..... :	802.11b/g/n	
Operating frequency range(s)..... :	2412~2462MHz	
Number of channel..... :	802.11b/g/n(20MHz) : 11 802.11n(40MHz) : 07	
Type of Modulation & Data Rate.... :	Refer to Clause 1.3	
Device category ..... :	☐	Fixed point-to-point
	☐	Emit multiple directional beams, simultaneously or sequentially
	☒	Other cases

Rated power supply .....:	Voltage and Frequency	
	☐	AC: 220 - 240 V, 50/60 Hz
	☐	AC: 100 - 240 V, 50/60 Hz
	☒	DC: 5 Vdc
	☒	Battery: 7.20 Vdc, 2600 mAh, 18.72 Wh
	☒	Adapter:
Adapter Model .....:	DGL0502000LUS	
	Input: 100-240V ~ 50/60Hz,0.3A Max Output: 5.0V / 2000 mA	
Mounting position.....:	☐	Tabletop equipment
	☐	Wall/Ceiling mounted equipment
	☐	Floor standing equipment
	☒	Hand-held/Portable equipment
	☐	Other:

1.2 Antenna Information

Antenna model / type number..... :	MF960B30 Z400			
Antenna Delivery ..... :	☒	1TX + 1RX		
	☐	2TX + 2RX		
	☐	Others: ……		
Antenna technology..... :	☒	SISO		
	☐	MIMO	☐	CDD
			☐	Beam-forming
Antenna Type..... :	☐	External	☐	Dipole
			☐	Sectorized
	☒	Internal	☐	Ceramic Chip
			☐	PIFA
			☒	FPC
			☐	Others……..
Antenna Gain..... :	1.17 dBi			

1.3 Data Rate

IEEE 802.11b

Modulation	Data Rate(Mb/s)
DSSS	1
DSSS	2
CCK	5.5
CCK	11

IEEE 802.11g

Modulation	R	Data Rate(Mb/s)
BPSK	1/2	6
BPSK	3/4	9
QPSK	1/2	12
QPSK	3/4	18
16-QAM	1/2	24
16-QAM	3/4	36
64-QAM	2/3	48
64-QAM	3/4	54

IEEE 802.11n

Spatial streames	MCS Index	Modulation	R	Data Rate(Mb/s)			
				800ns GI		400ns GI	
				20MHz	40MHz	20MHz	40MHz
1	0	BPSK	1/2	6.5	13.5	7.2	15.0
1	1	QPSK	1/2	13.0	27.0	14.4	30.0
1	2	QPSK	3/4	19.5	40.5	21.7	45.0
1	3	16-QAM	1/2	26.0	54.0	28.9	60.0
1	4	16-QAM	3/4	39.0	81.0	43.3	90.0
1	5	64-QAM	2/3	52.0	108.0	57.8	120.0
1	6	64-QAM	3/4	58.5	121.5	65.0	135.0
1	7	64-QAM	5/6	65.0	135.0	72.2	150.0
2	8	BPSK	1/2	13	27	14.4	30
2	9	QPSK	1/2	26	54	28.8	60
2	10	QPSK	3/4	39	81	43.4	90
2	11	16-QAM	1/2	52	108	57.8	120
2	12	16-QAM	3/4	78	162	86.6	180
2	13	64-QAM	2/3	104	216	115.6	240
2	14	64-QAM	3/4	117	243	130	270
2	15	64-QAM	5/6	130	270	144.4	300

Symbol	Explanation
R	Code rate
GI	guard interval

Note: We have evaluated low/mid/high data rate, the blue font is the highest power data rate.

1.4 Channel List

IEEE 802.11b/g & IEEE 802.11n (20MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412 MHz	2	2417 MHz	3	2422 MHz	4	2427 MHz
5	2432 MHz	6	2437 MHz	7	2442 MHz	8	2447 MHz
9	2452 MHz	10	2457 MHz	11	2462 MHz	-	-

IEEE 802.11n(40MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422 MHz	4	2427 MHz	5	2432 MHz	6	2437 MHz
7	2442 MHz	8	2447 MHz	9	2452 MHz	-	-

Note: The General Description of the Item, antenna information,Test Data Rate and Channel List in clause 1 are provided and confirmed by the client.

2 DESCRIPTION OF TEST SETUP

2.1 Operating mode(s) used for tests

During the tests the following operating mode(s) has(have) been used.

Test Mode For Bluetooth	Mode 1: Transmit by 802.11b
	Mode 2: Transmit by 802.11g
	Mode 3: Transmit by 802.11n(20MHz)
	Mode 4: Transmit by 802.11n(40MHz)

Note 1: Regards to the frequency band operation: the lowest, middle and highest frequency channel were selected to perform the test, then shown on this report.

Note 2: For portable device, radiated tests was verified over X, Y, Z axis, and shown the worst case on this report.

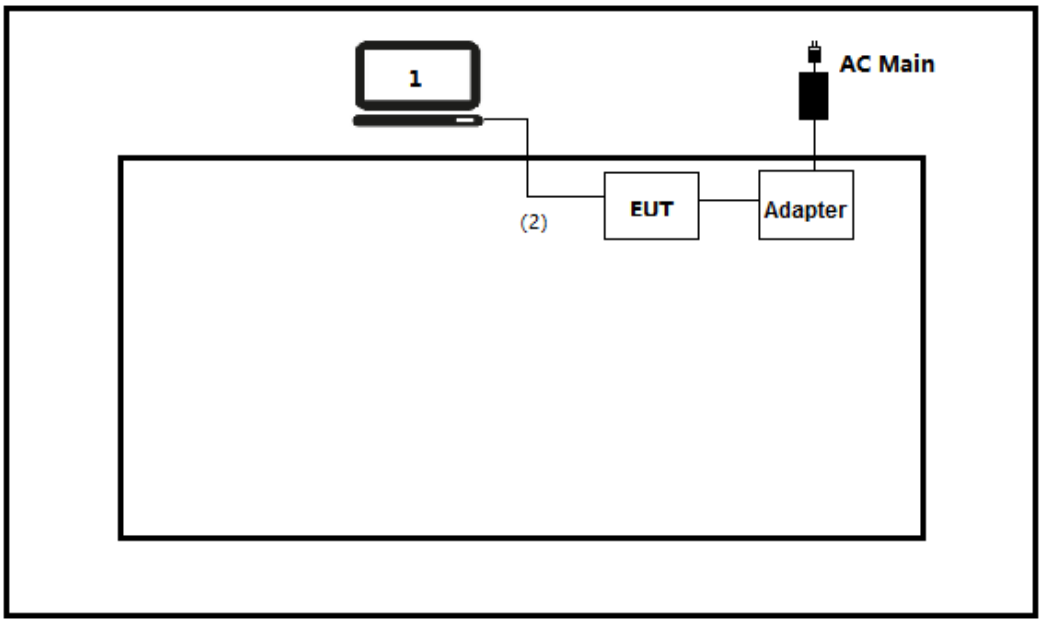
2.2 Auxiliary equipment /Accessories/Test software for the EUT

Auxiliary equipment	Type / Version	Manufacturer	Supplied by
(1) USB Control Cable	N/A	N/A	N/A
(2) USB Control Cable	N/A	N/A	N/A
software	Type / Version	Manufacturer	Supplied by
N/A	N/A	N/A	N/A

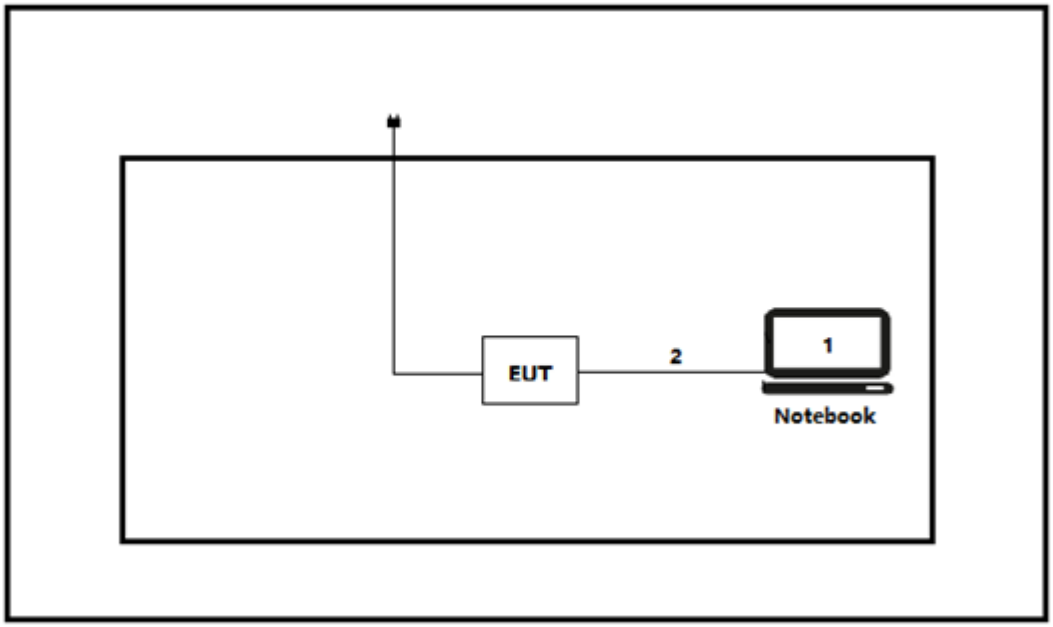
Accessories Information	Cable		
	Length used during test [m]	Attached during test	Shielded
(2)USB Control Cable	1	☒	☒
(3)USB Control Cable	8	☒	☒

2.3 Test Configuration / Block diagram used for tests

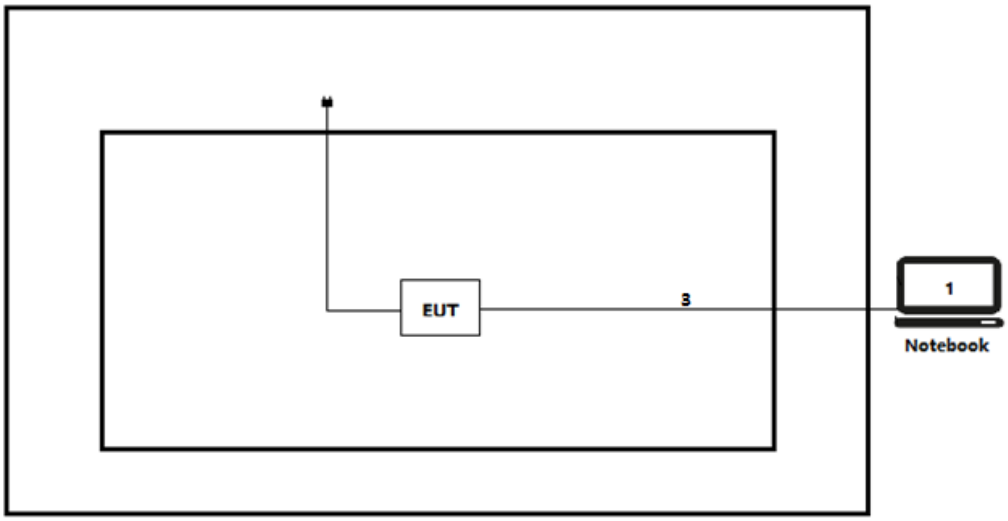
Test setup Diagram- AC Line Conducted Emission Test



Test setup Diagram- Conducted test



Test setup Diagram- Radiated Emission



2.4 Testing process

1	Setup the EUT as shown in Section 2.3.
2	Enter launch execution on the dial screen.
3	Configure the test mode, the test channel, and the data rate.
4	Verify that the EUT works properly.

3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

Standard	Year	Description
CFR 47, FCC Part 15 C	2024	Operation within the bands902–928 MHz, 2400–2483.5 MHz, and5725–5850 MHz.
ANSI C63.10	2013	American National Standard ofProcedures for Compliance Testing ofUnlicensed Wireless Devices

3.2 Deviation(s) from the Standard(s) / Test Specification(s)

The following deviation(s) was / were made from the published requirements of the listed standards: N/A.

(Please define the deviations from the standard(s) if applicable)

3.3 Overview of results

Test Item	FCC Rule No.	Test Method	Result
Antenna Requirement	15.203/15.247(b)	--	**See Remark**
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	**PASS**
Duty Cycle	--	--	**See Remark**
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section11.9.2.3	**PASS**
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	**See Remark**
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	**See Remark**
Band-Edge	15.247(d)	ANSI C63.10 2013 Section 11.11	**PASS**
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	**See Remark**
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	**PASS**
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	**See Remark**

Remark:
Only the Effective (Isotropic) Radiated Power Output Data and Radiated Spurious Emission were fully tested. These items please refer to the Wi-Fi2.4G Module report S23033100205003.
The FCC ID is 2A9FT-Z400-H has been certified, and the test report issued by Shenzhen NTEK Testing Technology Co., Ltd. on 03/05/2023.

Requirement – Test Item of FCC	Standard(s)	Verdict	Tset Location	Remark
Maximum Conducted Output Power	FCC 15.247(b)(1)	PASS	**A**	Test data please refer to **Appendix A**
Emissions in Restricted Bands	FCC 15.247(b)(3)	PASS	**B**	Test data please refer to **Appendix B**
Band edge measurements	FCC 15.247(d)	PASS	**B**	Test data please refer to **Appendix C**
AC Power Line Conducted Emission	FCC 15.207	PASS	**A**	Test data please refer to **Appendix D**

3.4 Power setting in test

Mode	Channel	Frequency (MHz)	Power Setting
Mode 1	1	2412	22.00
	6	2437	22.00
	11	2462	22.00
Mode 2	1	2412	19.00
	6	2437	19.00
	11	2462	19.00
Mode 3	1	2412	18.00
	6	2437	18.00
	11	2462	18.00
Mode 4	3	2422	18.00
	6	2437	18.00
	9	2452	18.00

3.5 Test Matrix

Test item	Model : POS Terminal	
	SN: 82240521970040	SN: 82240521970039
Maximum Conducted Output Power	☒	☐
Emissions in Restricted Bands	☐	☒
Band edge measurements	☐	☒
AC Power Line Conducted Emission	☐	☒
Note1: The only difference between sample #1 and sample #2 is whether to keep the original antenna, sample #1 is a conduction test product that removes the original antenna and is equipped with SMA wires, and sample #2 is a complete product that retains the original antenna.		

3.6 Test Facility

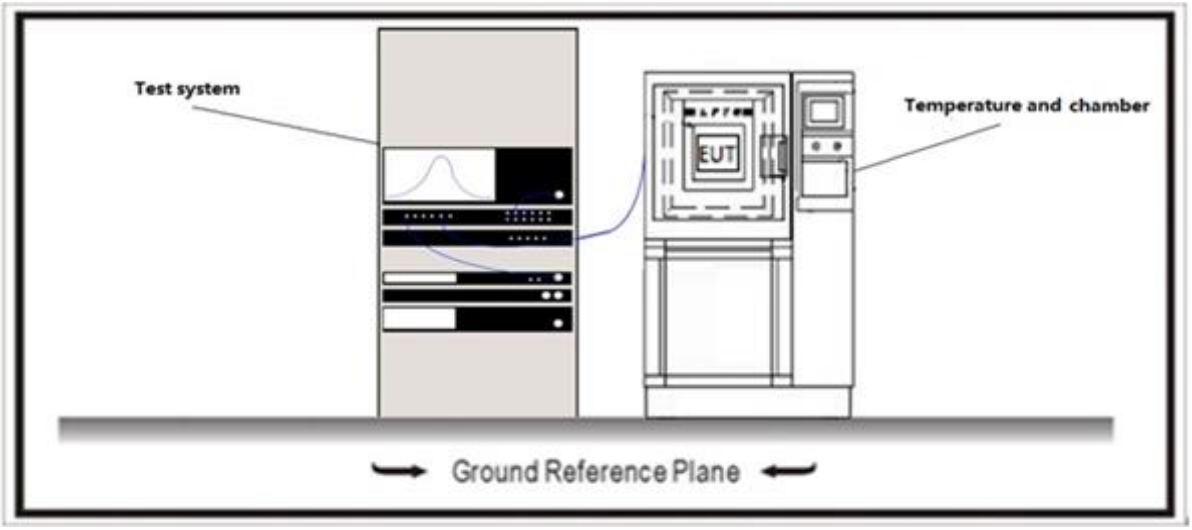
Tset Location A	**:**	**FCC Designation Number: CN1199**
Tset Location B	**:**	**FCC Designation Number: CN1321**

4 TEST ITEMS OF LIMIT/SETUP/PROCEDURE

4.1 Maximum Conducted Output Power	VERDICT: PASS

4.1.1 Limit			
Standard		FCC Part 15 Subpart C Paragraph 15.247(b)	
☒	GTX ＜6dBi		Pout≤30dBm
☐	GTX ＞6dBi		
	☐	Non-Fix point-point	Pout≤30-(GTX -6)
	☐	Fix point-point	Pout≤30-[(GTX-6)]/3
	☐	Point-to-multipoint	Pout≤30-(GTX-6)
	☐	Overlap Beams	Pout≤30-[(GTX-6)]/3
	☐	Aggregate power transmitted simultaneously on all beams	Pout≤30-[(GTX-6)]/3
	☐	single directional beam	Pout≤30-[(GTX-6)]/3+8dB
Note 1 : GTX directional gain of transmitting antennas. Note 2 : Pout is maximum peak conducted output power .			

4.1.2 Test Setup



4.1.3 Test Procedure

	References Rule		Chapter	Description
☒	ANSI C63.10		7.8	Evaluation of frequency-hopping device parameters
	☒	ANSI C63.10	7.8.5	Output power test procedure for frequency-hopping spread-spectrum (FHSS) devices

4.2 Emissions in Restricted Bands — VERDICT: PASS

4.2.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.205

Restricted Bands of operation

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 –16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8
12.51975–12.52025	240 – 285	3345.8 – 3358	36.43 – 36.5
12.57675–12.57725	322 – 335.4	3600 – 4400	
13.36 – 13.41			

Restricted Band Emissions Limit

FCC Part 15 Subpart C Paragraph 15.209

Frequency (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30(Note 1)
1.705 - 30	30	29.5	30(Note 1)
30 - 88	100	40	3(Note 2)
88 - 216	150	43.5	3(Note 2)
216 - 960	200	46	3(Note 2)
Above 960	500	54	3(Note 2)

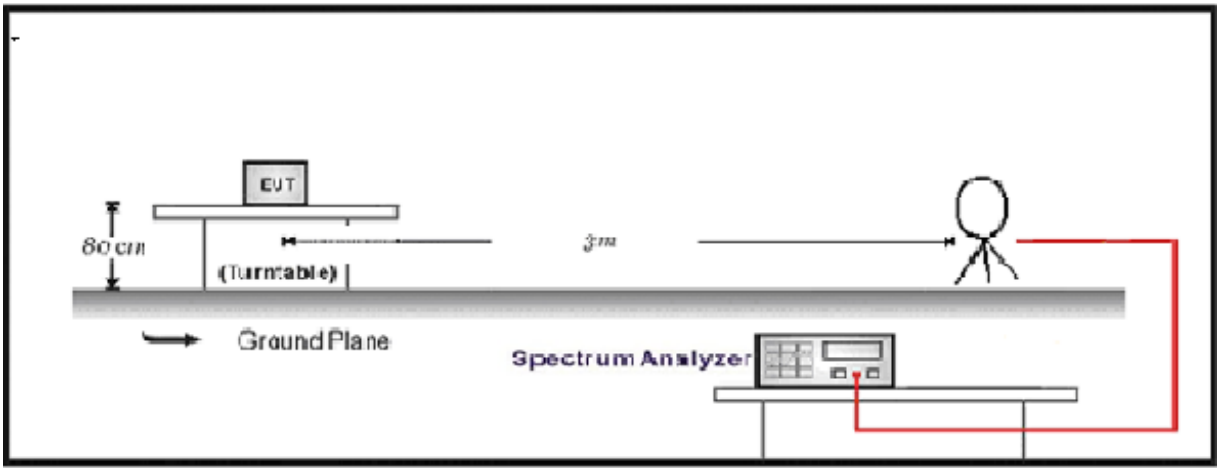
Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results

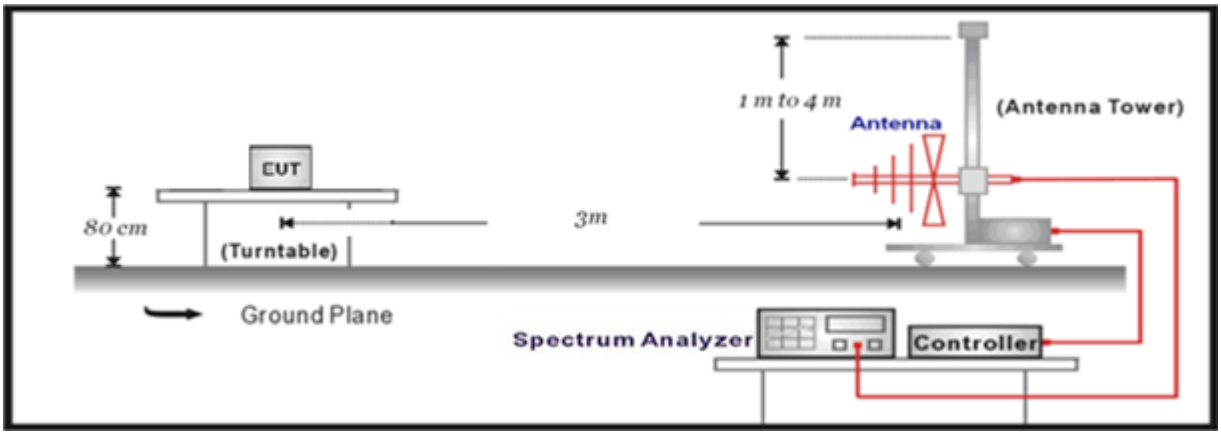
shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

4.2.2 Test Setup

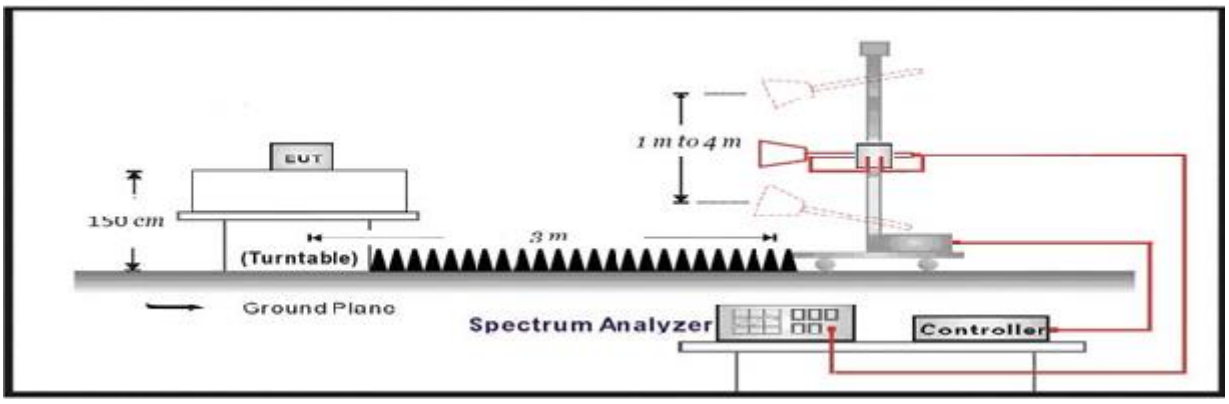
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



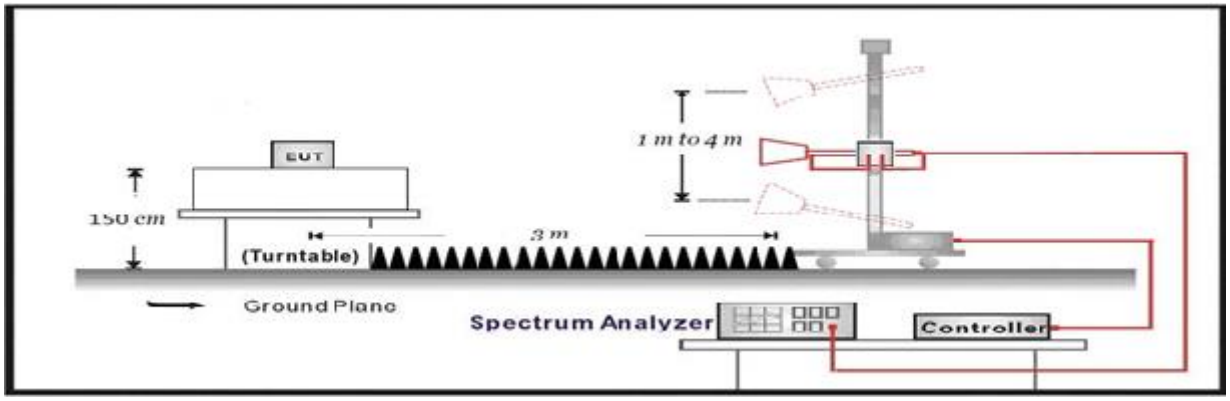
4.2.3 Test Procedure					
	References Rule			Chapter	Description
☒	ANSI C63.10			11.12	Emissions in restricted frequency bands
	☒	ANSI C63.10		11.12.1	Radiated emission measurements
	☒	ANSI C63.10		11.12.2.7	Radiated spurious emission test
		☒	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
		☒	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
		☒	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

4.3 Band edge measurements	VERDICT: PASS

4.3.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.247(d) ,15.209			
Frequency bands (MHz)	Detector	Limit (dB μV/m)	RBW (MHz)	Distance (m)
2310-2390 2483.5-2500	PK	74	1	3
	AV	54	1	3
Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.				

4.3.2 Test Setup



4.3.3 Test Procedure

Test Method

	References Rule		Chapter	Description
☐	DA 00-705		N/A	duty cycle correction factor
☒	ANSI C63.10		6.10	Band-edge testing
	☒	ANSI C63.10	6.10.5	Restricted-band band-edge measurements
	☐	ANSI C63.10	6.10.6	Marker-delta method
☐	ANSI C63.10		6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
☐	ANSI C63.10		6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
☐	ANSI C63.10		6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

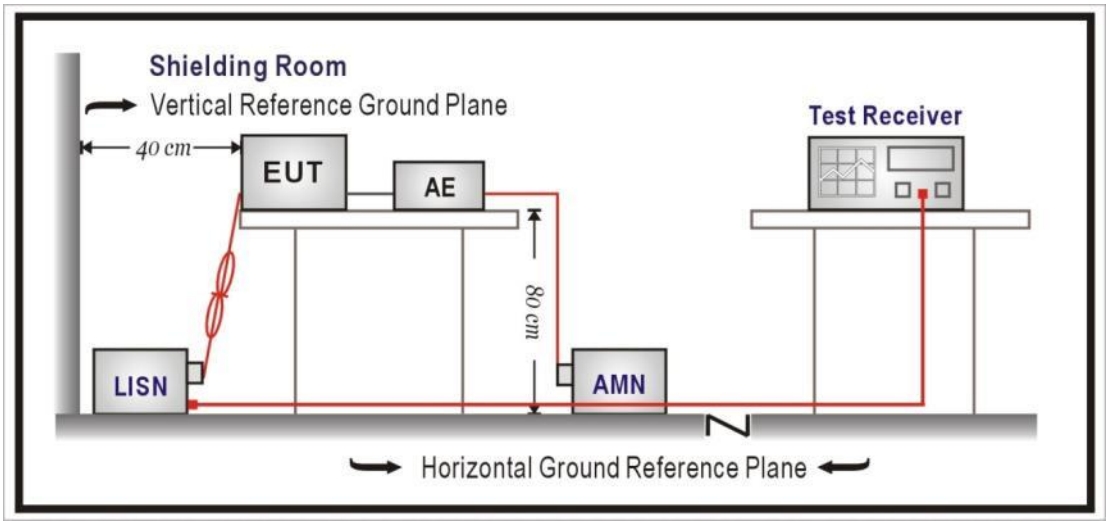
4.4 AC Power Line Conducted Emission	VERDICT: PASS

4.4.1Limit

Standard	FCC Part 15 Subpart C Paragraph 15.207	
Frequency range [MHz]	Limit: QP [dB(μV)[1)]]	Limit: AV [dB(μV) [1)]]
0,15 - 0,50	66 – 56 [2)]	56 - 46 [2)]
0,50 - 5,0	56	46
5,0 - 30	60	50

[1)] At the transition frequency, the lower limit applies.
[2)] The limit decreases linearly with the logarithm of the frequency.
NOTE 1: The exclusion band for transmitters shall be considered for transmitters operating at frequencies below 30 MHz.
NOTE 2: Where the AC output port is directly connected (or via a circuit breaker) to the AC power input port of the EUT the AC power output port need not to be tested.

4.4.2 Test Setup



4.4.3 Test Procedure

	References Rule	Chapter	Item
☒	ANSI C63.10-2013	6.2	Standard test method for ac power-line conducted emissions from unlicensedwireless devices

5 TEST SETUP PHOTO AND EUT PHOTO

Remark: The test setup photo and EUT Photo please see appendix.

6 TEST RESULT

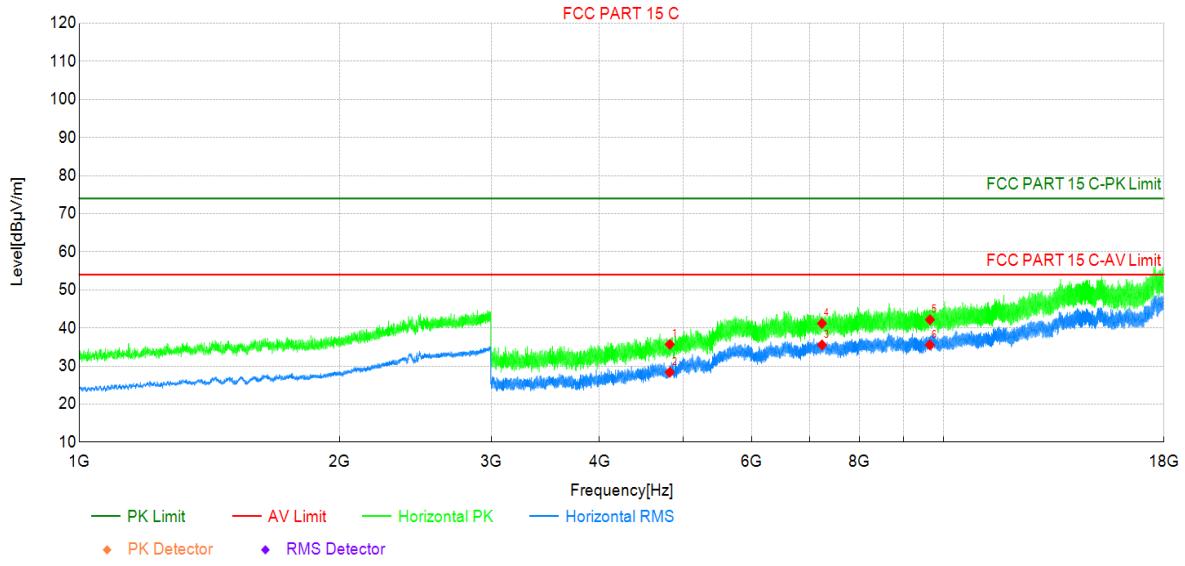
Appendix A: Maximum Conducted Output Power

Mode	Channel	Test Frequency (MHz)	Conducted Power (dBm)	EIRP (dBm)	Conducted Power Limit (dBm)	EIRP Limit (dBm)	Result
Mode 1	1	2412	17.89	19.06	≤30	≤36	PASS
	6	2437	17.93	19.10	≤30	≤36	PASS
	11	2462	18.07	19.24	≤30	≤36	PASS
Mode 2	1	2412	15.23	16.40	≤30	≤36	PASS
	6	2437	15.32	16.49	≤30	≤36	PASS
	11	2462	15.61	16.78	≤30	≤36	PASS
Mode 3	1	2412	14.56	15.73	≤30	≤36	PASS
	6	2437	14.3	15.47	≤30	≤36	PASS
	11	2462	14.35	15.52	≤30	≤36	PASS
Mode 4	3	2422	14.44	15.61	≤30	≤36	PASS
	6	2437	14.31	15.48	≤30	≤36	PASS
	9	2452	14.29	15.46	≤30	≤36	PASS
Note 1: EIRP Power = Conducted Power + Antenna gain Note 2: The Antenna gain please refer to clause 1.2							

Appendix B: Emissions in Restricted Band

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 1: Transmit at 2412MHz by 802.11b	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph

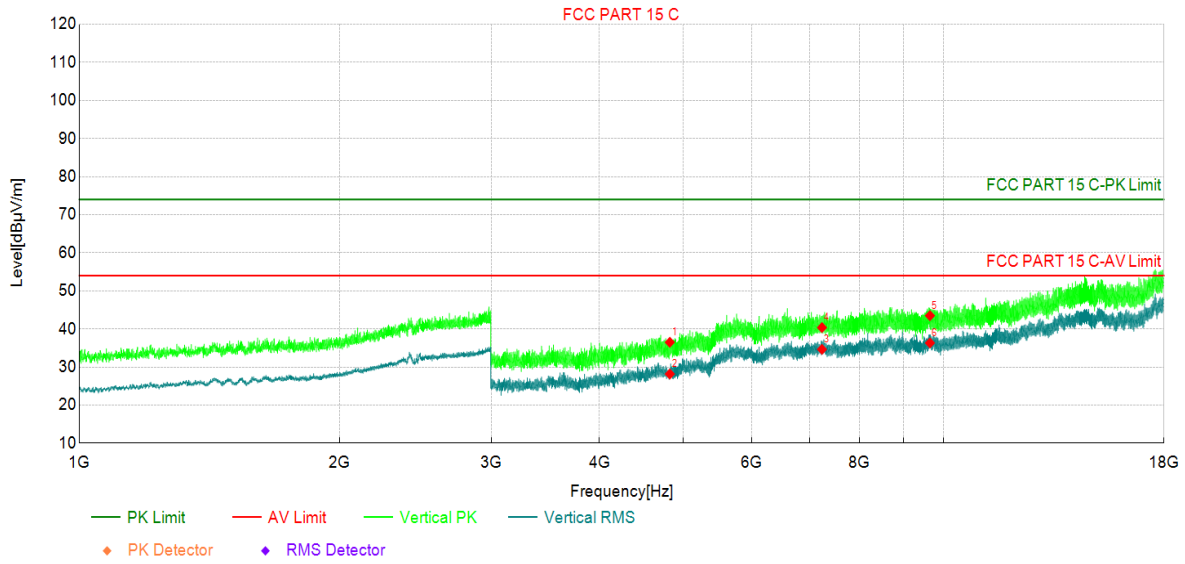


Suspected Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4824	41.78	35.69	-6.09	74.00	38.31	PK	Horizo	PASS
2	4824	34.44	28.35	-6.09	54.00	25.65	RMS	Horizo	PASS
3	7236	32.72	35.54	2.82	54.00	18.46	RMS	Horizo	PASS
4	7236	38.38	41.20	2.82	74.00	32.80	PK	Horizo	PASS
5	9648	36.41	42.16	5.75	74.00	31.84	PK	Horizo	PASS
6	9648	29.79	35.54	5.75	54.00	18.46	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 1: Transmit at 2412MHz by 802.11b	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



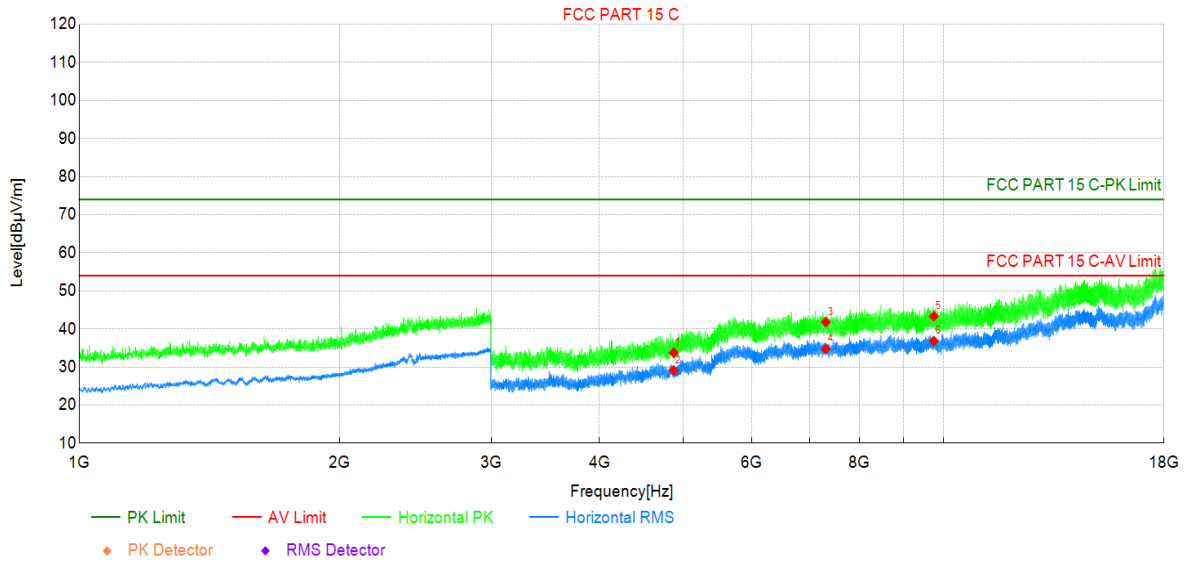
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4824	42.59	36.50	-6.09	74.00	37.50	PK	Vertic	PASS
2	4824	34.26	28.17	-6.09	54.00	25.83	RMS	Vertic	PASS
3	7236	31.82	34.64	2.82	54.00	19.36	RMS	Vertic	PASS
4	7236	37.54	40.36	2.82	74.00	33.64	PK	Vertic	PASS
5	9648	37.74	43.49	5.75	74.00	30.51	PK	Vertic	PASS
6	9648	30.56	36.31	5.75	54.00	17.69	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 1: Transmit at 2437MHz by 802.11b	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



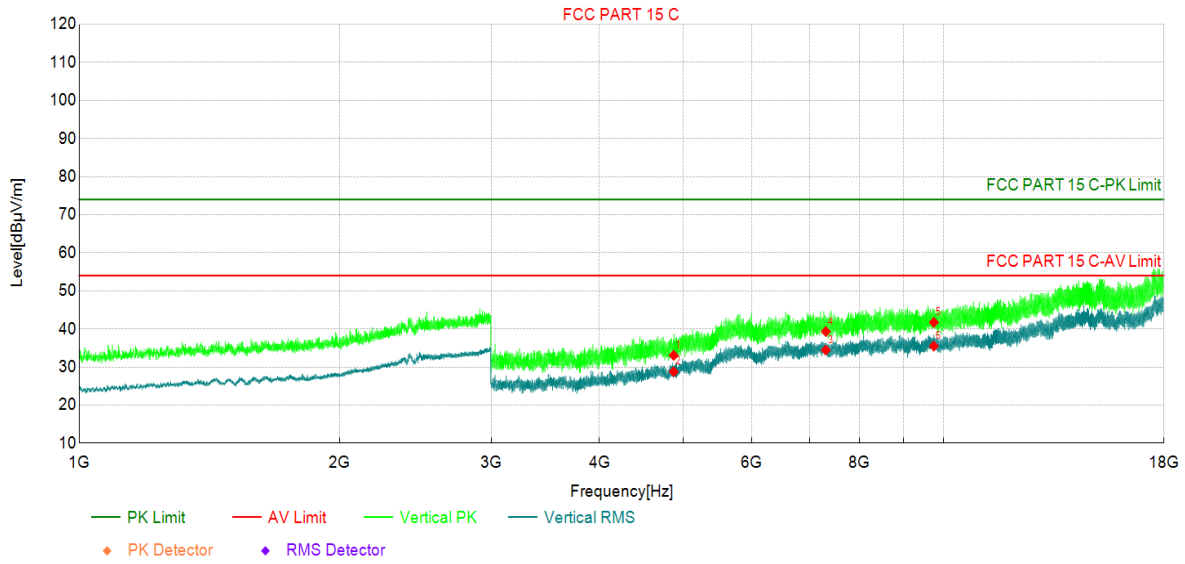
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4874	39.87	33.75	-6.12	74.00	40.25	PK	Horizo	PASS
2	4874	35.18	29.06	-6.12	54.00	24.94	RMS	Horizo	PASS
3	7311	39.10	41.82	2.72	74.00	32.18	PK	Horizo	PASS
4	7311	32.02	34.74	2.72	54.00	19.26	RMS	Horizo	PASS
5	9748	37.48	43.31	5.83	74.00	30.69	PK	Horizo	PASS
6	9748	30.99	36.82	5.83	54.00	17.18	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 1: Transmit at 2437MHz by 802.11b	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



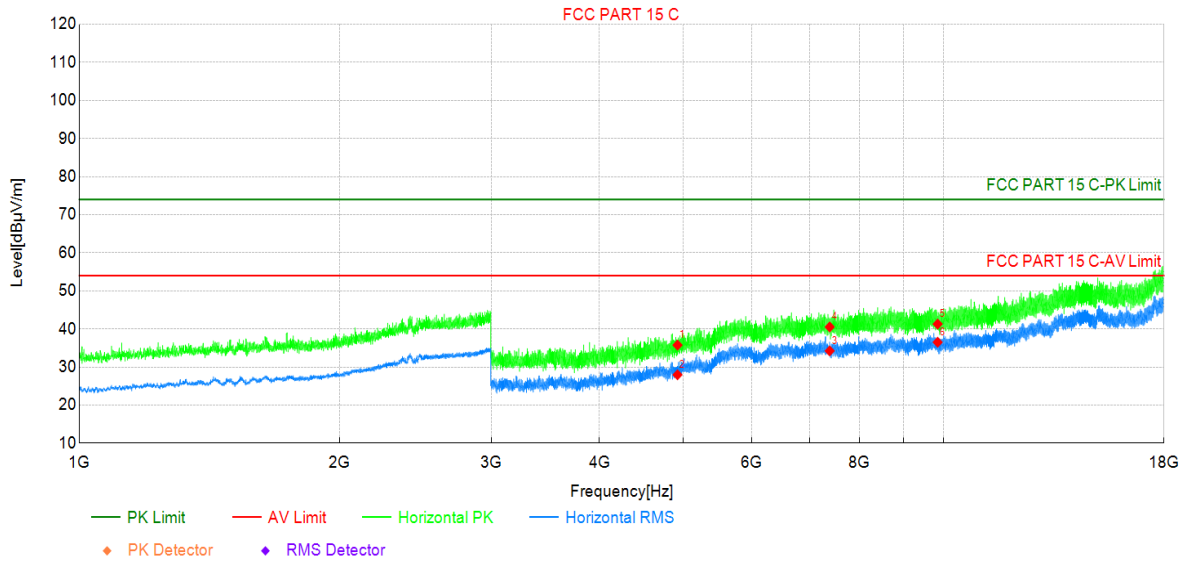
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4874	39.19	33.07	-6.12	74.00	40.93	PK	Vertic	PASS
2	4874	34.89	28.77	-6.12	54.00	25.23	RMS	Vertic	PASS
3	7311	31.71	34.43	2.72	54.00	19.57	RMS	Vertic	PASS
4	7311	36.61	39.33	2.72	74.00	34.67	PK	Vertic	PASS
5	9748	35.89	41.72	5.83	74.00	32.28	PK	Vertic	PASS
6	9748	29.66	35.49	5.83	54.00	18.51	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 1: Transmit at 2462MHz by 802.11b	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



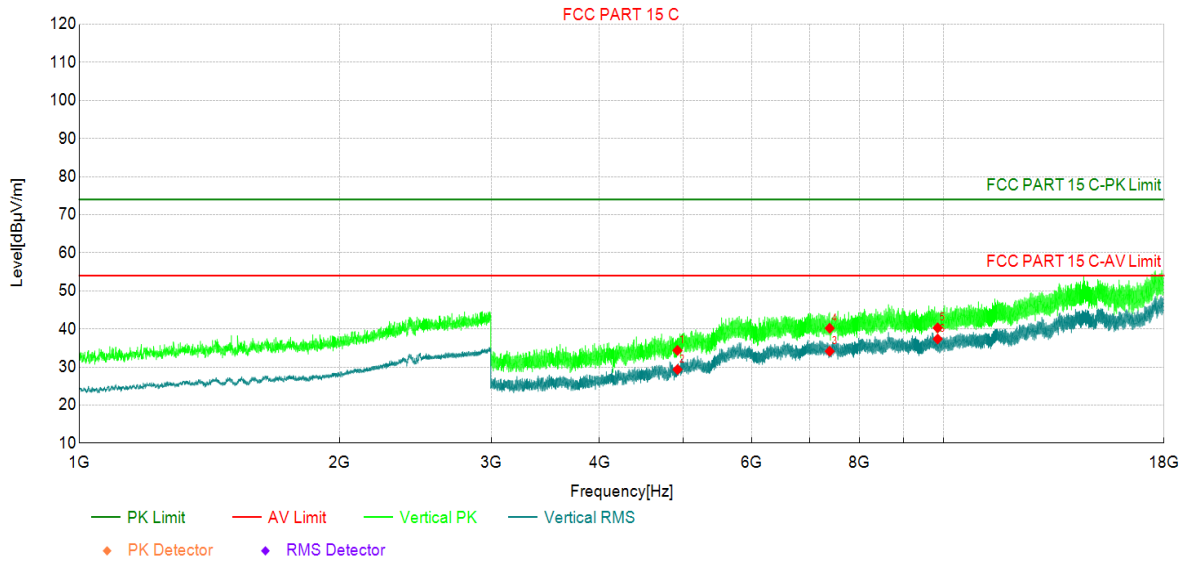
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4924	41.57	35.76	-5.81	74.00	38.24	PK	Horizo	PASS
2	4924	33.77	27.96	-5.81	54.00	26.04	RMS	Horizo	PASS
3	7386	32.10	34.24	2.14	54.00	19.76	RMS	Horizo	PASS
4	7386	38.38	40.52	2.14	74.00	33.48	PK	Horizo	PASS
5	9848	35.79	41.28	5.49	74.00	32.72	PK	Horizo	PASS
6	9848	31.02	36.51	5.49	54.00	17.49	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 1: Transmit at 2462MHz by 802.11b	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



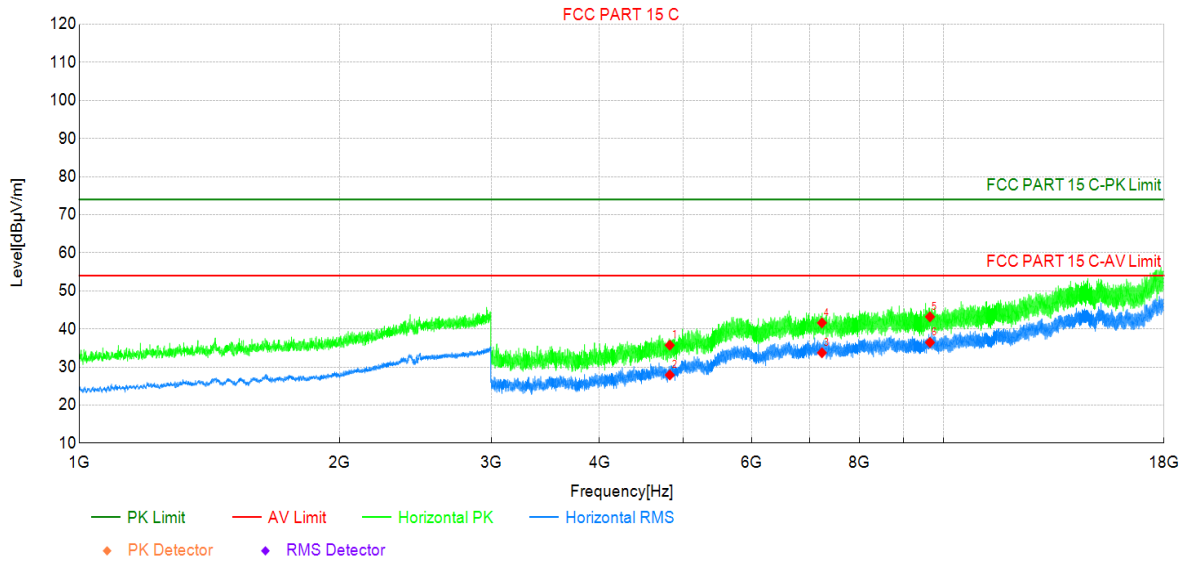
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4924	40.17	34.36	-5.81	74.00	39.64	PK	Vertic	PASS
2	4924	35.15	29.34	-5.81	54.00	24.66	RMS	Vertic	PASS
3	7386	32.00	34.14	2.14	54.00	19.86	RMS	Vertic	PASS
4	7386	38.05	40.19	2.14	74.00	33.81	PK	Vertic	PASS
5	9848	34.79	40.28	5.49	74.00	33.72	PK	Vertic	PASS
6	9848	31.87	37.36	5.49	54.00	16.64	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 2: Transmit at 2412MHz by 802.11g	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



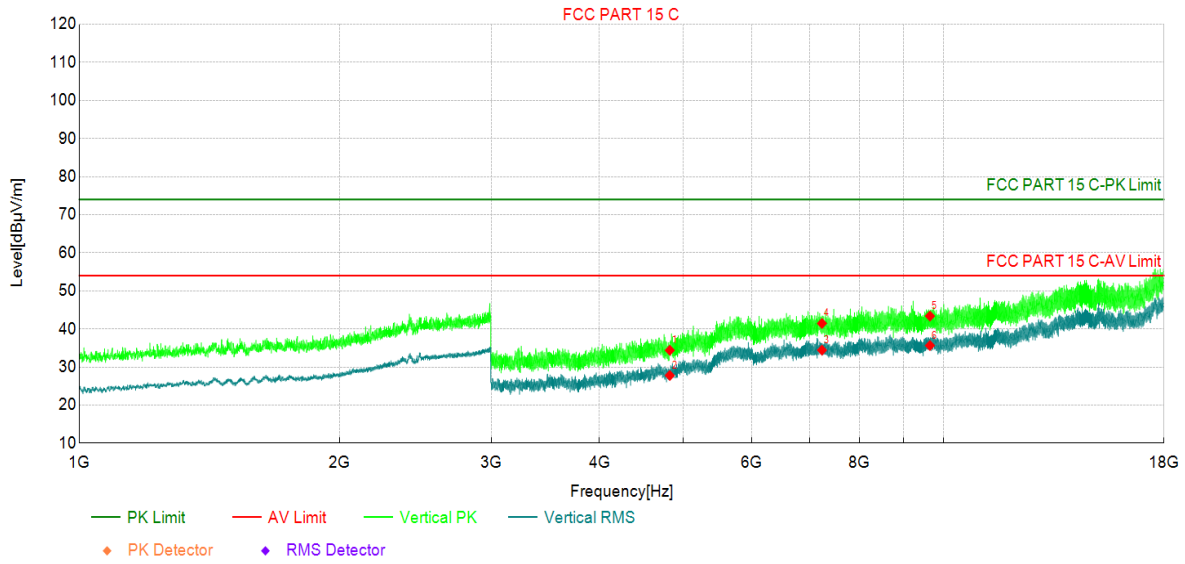
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4824	41.82	35.73	-6.09	74.00	38.27	PK	Horizo	PASS
2	4824	34.00	27.91	-6.09	54.00	26.09	RMS	Horizo	PASS
3	7236	30.92	33.74	2.82	54.00	20.26	RMS	Horizo	PASS
4	7236	38.78	41.60	2.82	74.00	32.40	PK	Horizo	PASS
5	9648	37.44	43.19	5.75	74.00	30.81	PK	Horizo	PASS
6	9648	30.70	36.45	5.75	54.00	17.55	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 2: Transmit at 2412MHz by 802.11g	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



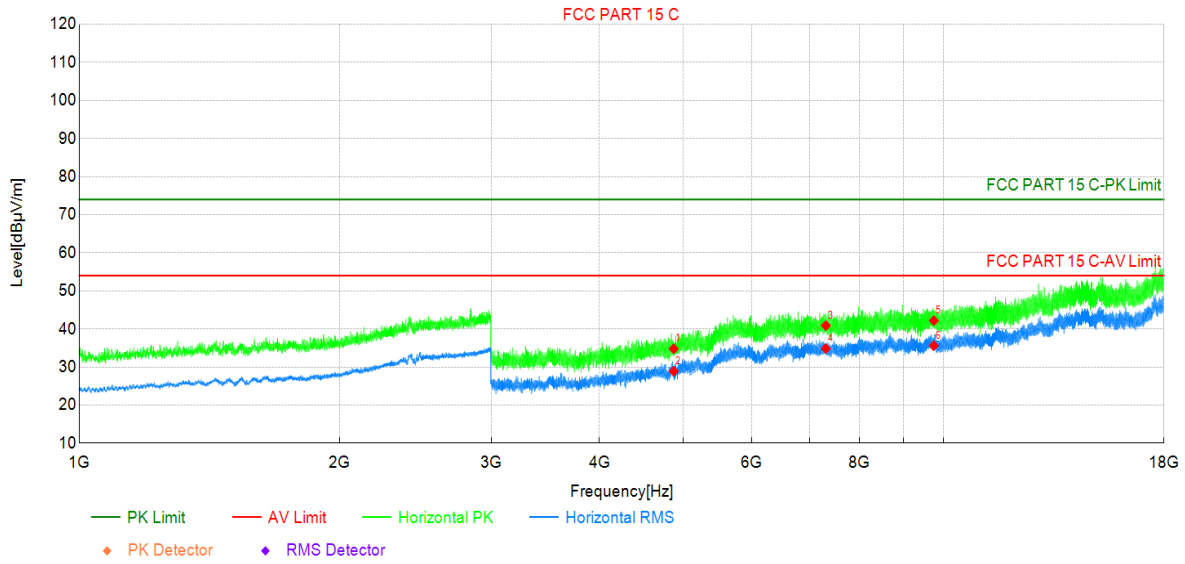
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4824	40.49	34.40	-6.09	74.00	39.60	PK	Vertic	PASS
2	4824	33.87	27.78	-6.09	54.00	26.22	RMS	Vertic	PASS
3	7236	31.62	34.44	2.82	54.00	19.56	RMS	Vertic	PASS
4	7236	38.63	41.45	2.82	74.00	32.55	PK	Vertic	PASS
5	9648	37.64	43.39	5.75	74.00	30.61	PK	Vertic	PASS
6	9648	29.90	35.65	5.75	54.00	18.35	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 2: Transmit at 2437MHz by 802.11g	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



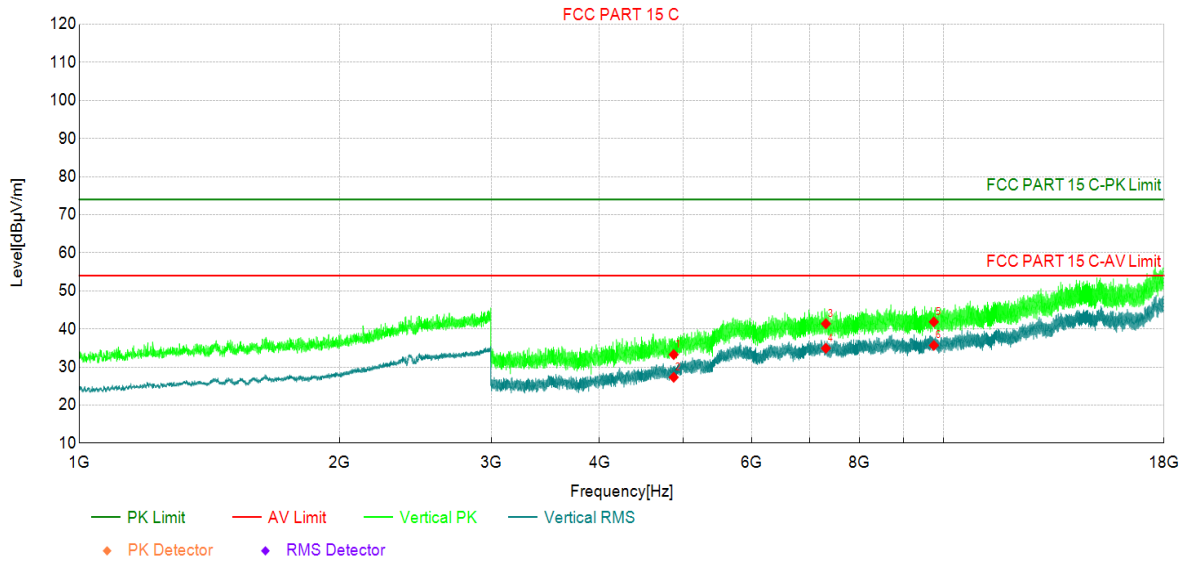
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4874	40.90	34.78	-6.12	74.00	39.22	PK	Horizo	PASS
2	4874	35.02	28.90	-6.12	54.00	25.10	RMS	Horizo	PASS
3	7311	38.16	40.88	2.72	74.00	33.12	PK	Horizo	PASS
4	7311	32.14	34.86	2.72	54.00	19.14	RMS	Horizo	PASS
5	9748	36.36	42.19	5.83	74.00	31.81	PK	Horizo	PASS
6	9748	29.77	35.60	5.83	54.00	18.40	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 2: Transmit at 2437MHz by 802.11g	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



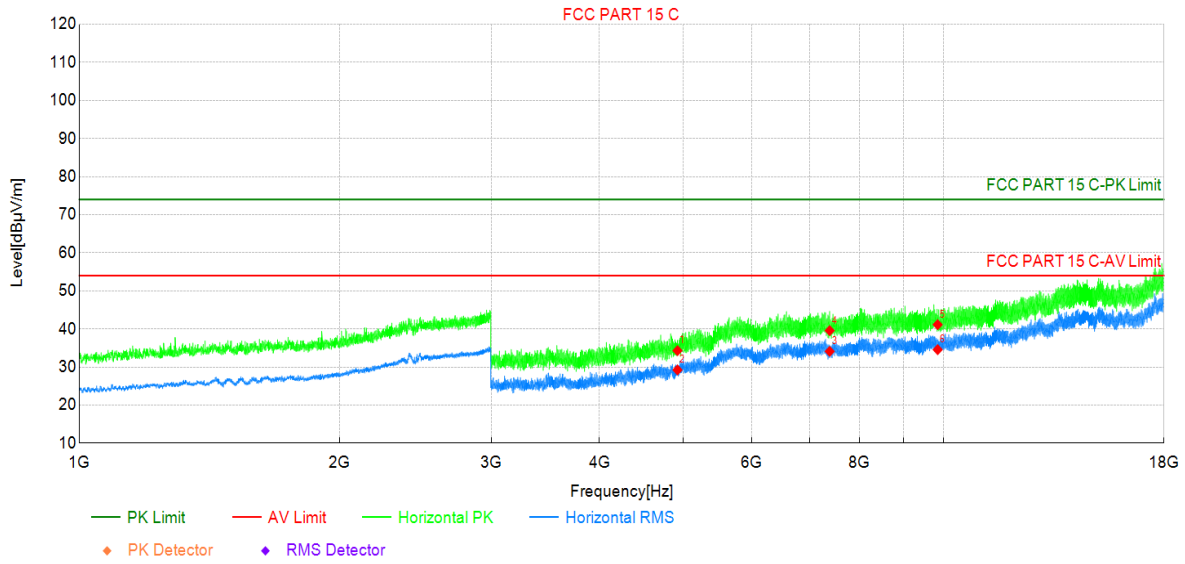
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4874	39.38	33.26	-6.12	74.00	40.74	PK	Vertic	PASS
2	4874	33.42	27.30	-6.12	54.00	26.70	RMS	Vertic	PASS
3	7311	38.64	41.36	2.72	74.00	32.64	PK	Vertic	PASS
4	7311	32.19	34.91	2.72	54.00	19.09	RMS	Vertic	PASS
5	9748	36.02	41.85	5.83	74.00	32.15	PK	Vertic	PASS
6	9748	29.85	35.68	5.83	54.00	18.32	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 2: Transmit at 2462MHz by 802.11g	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



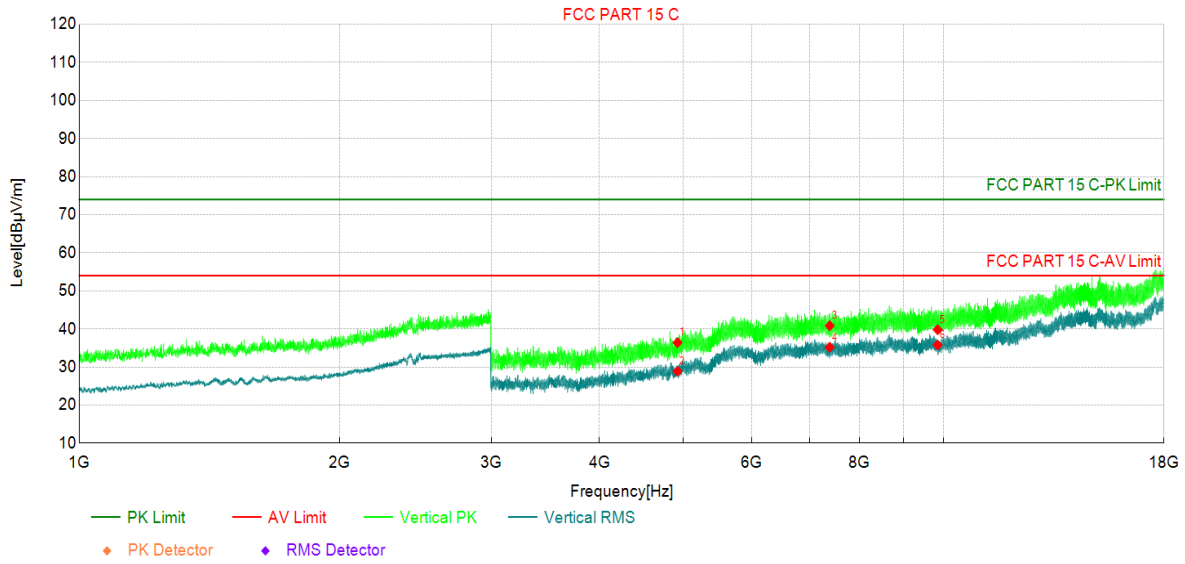
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4924	40.11	34.30	-5.81	74.00	39.70	PK	Horizo	PASS
2	4924	35.04	29.23	-5.81	54.00	24.77	RMS	Horizo	PASS
3	7386	31.97	34.11	2.14	54.00	19.89	RMS	Horizo	PASS
4	7386	37.43	39.57	2.14	74.00	34.43	PK	Horizo	PASS
5	9848	35.63	41.12	5.49	74.00	32.88	PK	Horizo	PASS
6	9848	29.07	34.56	5.49	54.00	19.44	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 2: Transmit at 2462MHz by 802.11g	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



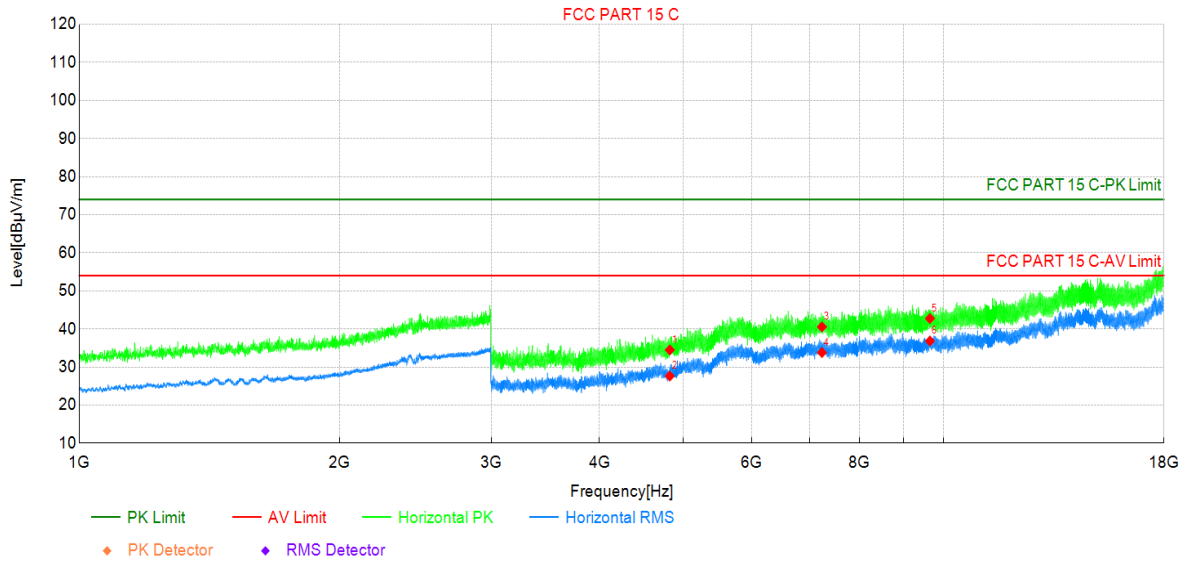
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4924	42.21	36.40	-5.81	74.00	37.60	PK	Vertic	PASS
2	4924	34.69	28.88	-5.81	54.00	25.12	RMS	Vertic	PASS
3	7386	38.70	40.84	2.14	74.00	33.16	PK	Vertic	PASS
4	7386	33.05	35.19	2.14	54.00	18.81	RMS	Vertic	PASS
5	9848	34.32	39.81	5.49	74.00	34.19	PK	Vertic	PASS
6	9848	30.29	35.78	5.49	54.00	18.22	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 3: Transmit at 2412MHz by 802.11n(20MHz)	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



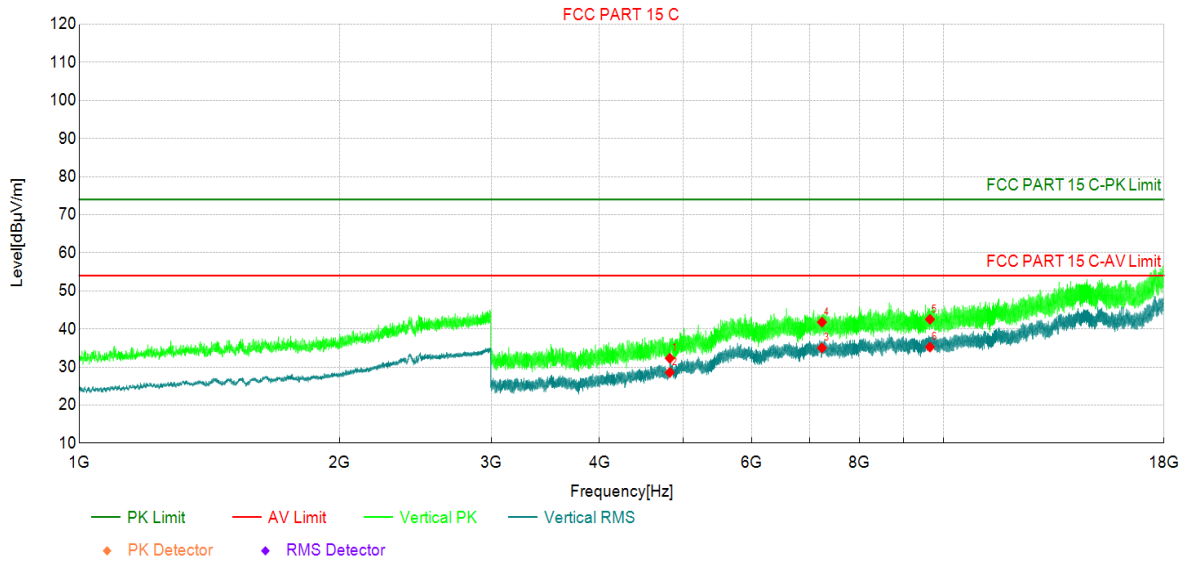
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4824	40.57	34.48	-6.09	74.00	39.52	PK	Horizo	PASS
2	4824	33.72	27.63	-6.09	54.00	26.37	RMS	Horizo	PASS
3	7236	37.72	40.54	2.82	74.00	33.46	PK	Horizo	PASS
4	7236	30.99	33.81	2.82	54.00	20.19	RMS	Horizo	PASS
5	9648	36.99	42.74	5.75	74.00	31.26	PK	Horizo	PASS
6	9648	31.08	36.83	5.75	54.00	17.17	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 3: Transmit at 2412MHz by 802.11n(20MHz)	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



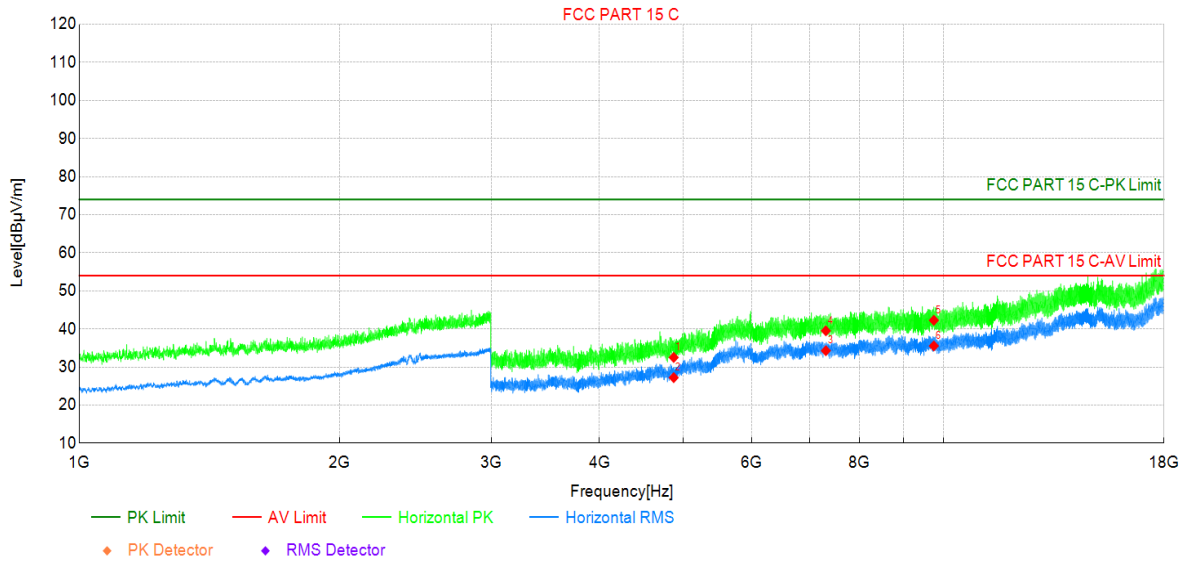
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4824	38.38	32.29	-6.09	74.00	41.71	PK	Vertic	PASS
2	4824	34.67	28.58	-6.09	54.00	25.42	RMS	Vertic	PASS
3	7236	32.19	35.01	2.82	54.00	18.99	RMS	Vertic	PASS
4	7236	38.96	41.78	2.82	74.00	32.22	PK	Vertic	PASS
5	9648	36.77	42.52	5.75	74.00	31.48	PK	Vertic	PASS
6	9648	29.49	35.24	5.75	54.00	18.76	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 3: Transmit at 2437MHz by 802.11n(20MHz)	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



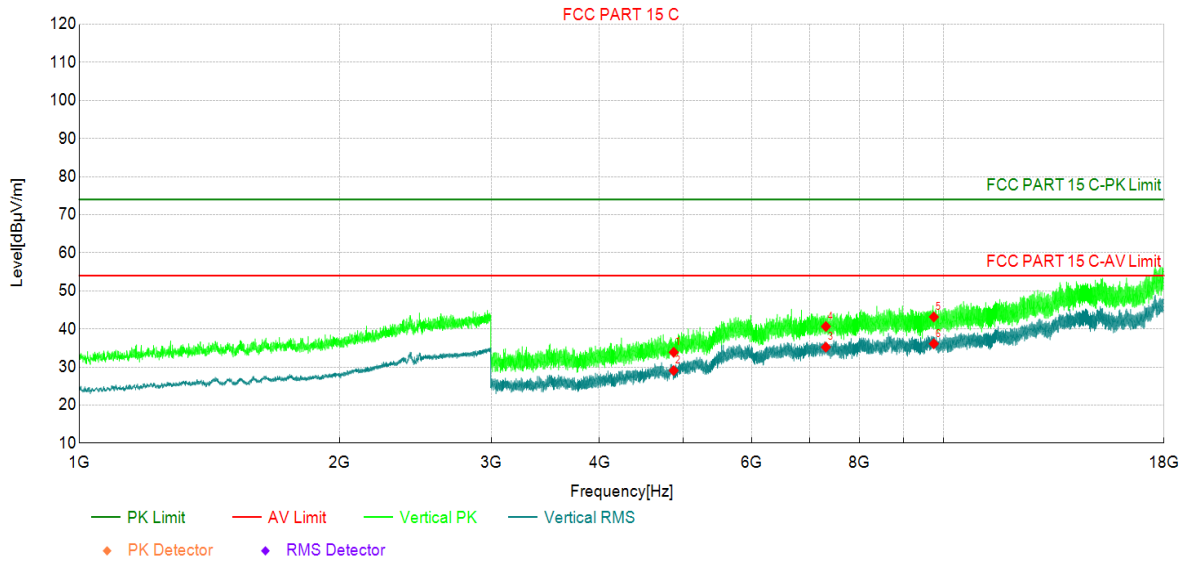
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4874	38.63	32.51	-6.12	74.00	41.49	PK	Horizo	PASS
2	4874	33.33	27.21	-6.12	54.00	26.79	RMS	Horizo	PASS
3	7311	31.56	34.28	2.72	54.00	19.72	RMS	Horizo	PASS
4	7311	36.79	39.51	2.72	74.00	34.49	PK	Horizo	PASS
5	9748	36.44	42.27	5.83	74.00	31.73	PK	Horizo	PASS
6	9748	29.70	35.53	5.83	54.00	18.47	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 3: Transmit at 2437MHz by 802.11n(20MHz)	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



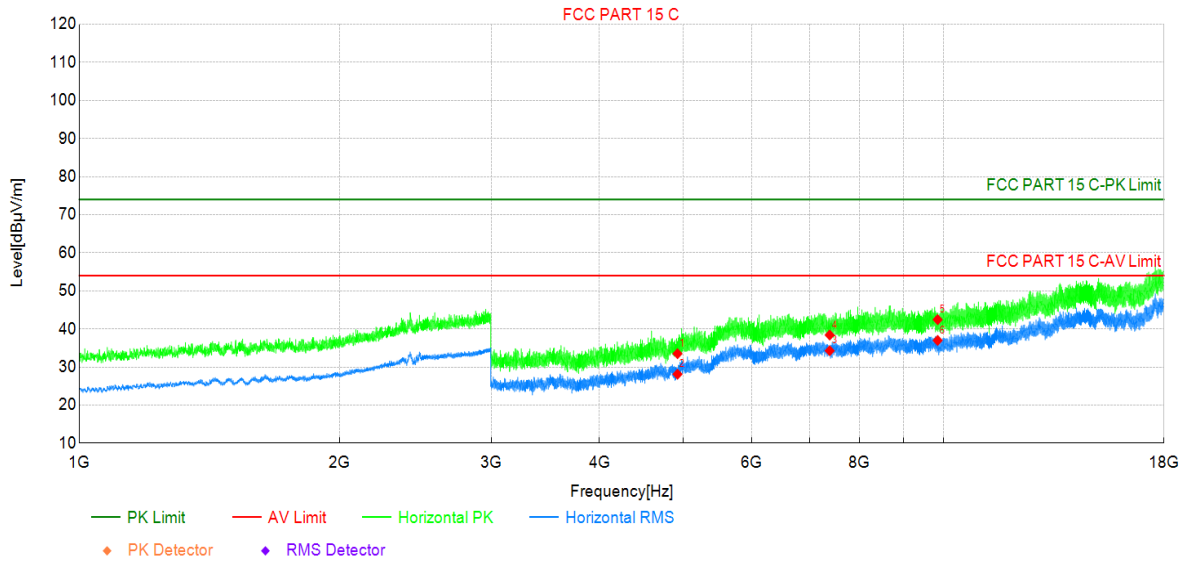
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4874	39.99	33.87	-6.12	74.00	40.13	PK	Vertic	PASS
2	4874	35.19	29.07	-6.12	54.00	24.93	RMS	Vertic	PASS
3	7311	32.51	35.23	2.72	54.00	18.77	RMS	Vertic	PASS
4	7311	37.92	40.64	2.72	74.00	33.36	PK	Vertic	PASS
5	9748	37.33	43.16	5.83	74.00	30.84	PK	Vertic	PASS
6	9748	30.28	36.11	5.83	54.00	17.89	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 3: Transmit at 2462MHz by 802.11n(20MHz)	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



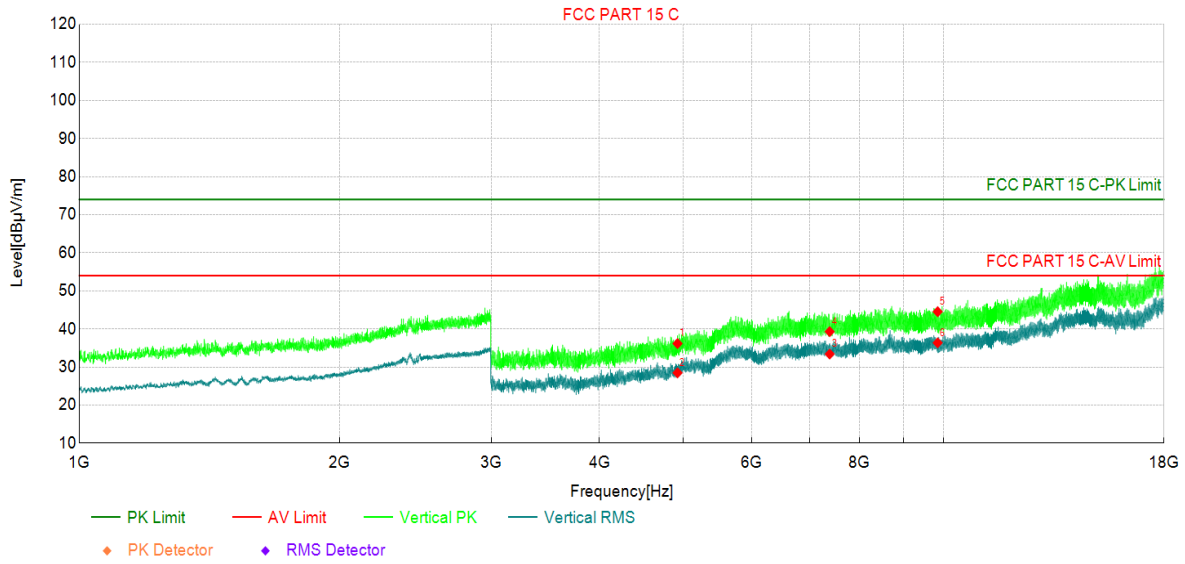
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4924	39.31	33.50	-5.81	74.00	40.50	PK	Horizo	PASS
2	4924	33.92	28.11	-5.81	54.00	25.89	RMS	Horizo	PASS
3	7386	32.14	34.28	2.14	54.00	19.72	RMS	Horizo	PASS
4	7386	36.26	38.40	2.14	74.00	35.60	PK	Horizo	PASS
5	9848	36.96	42.45	5.49	74.00	31.55	PK	Horizo	PASS
6	9848	31.50	36.99	5.49	54.00	17.01	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 3: Transmit at 2462MHz by 802.11n(20MHz)	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



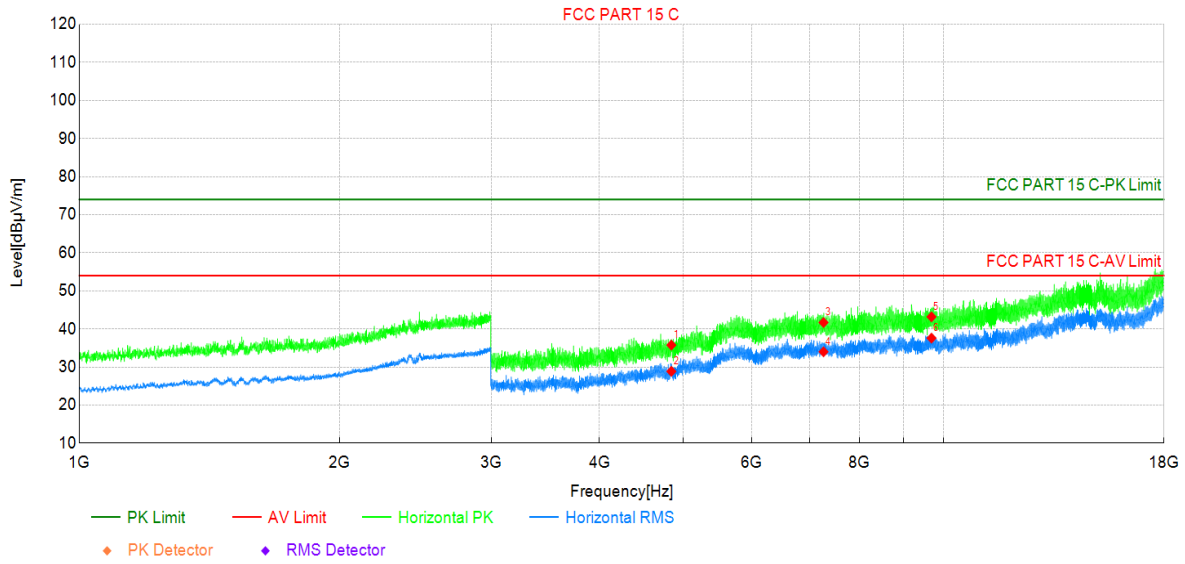
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4924	41.97	36.16	-5.81	74.00	37.84	PK	Vertic	PASS
2	4924	34.28	28.47	-5.81	54.00	25.53	RMS	Vertic	PASS
3	7386	31.26	33.40	2.14	54.00	20.60	RMS	Vertic	PASS
4	7386	37.15	39.29	2.14	74.00	34.71	PK	Vertic	PASS
5	9848	39.04	44.53	5.49	74.00	29.47	PK	Vertic	PASS
6	9848	30.86	36.35	5.49	54.00	17.65	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 4: Transmit at 2422MHz by 802.11n(40MHz)	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



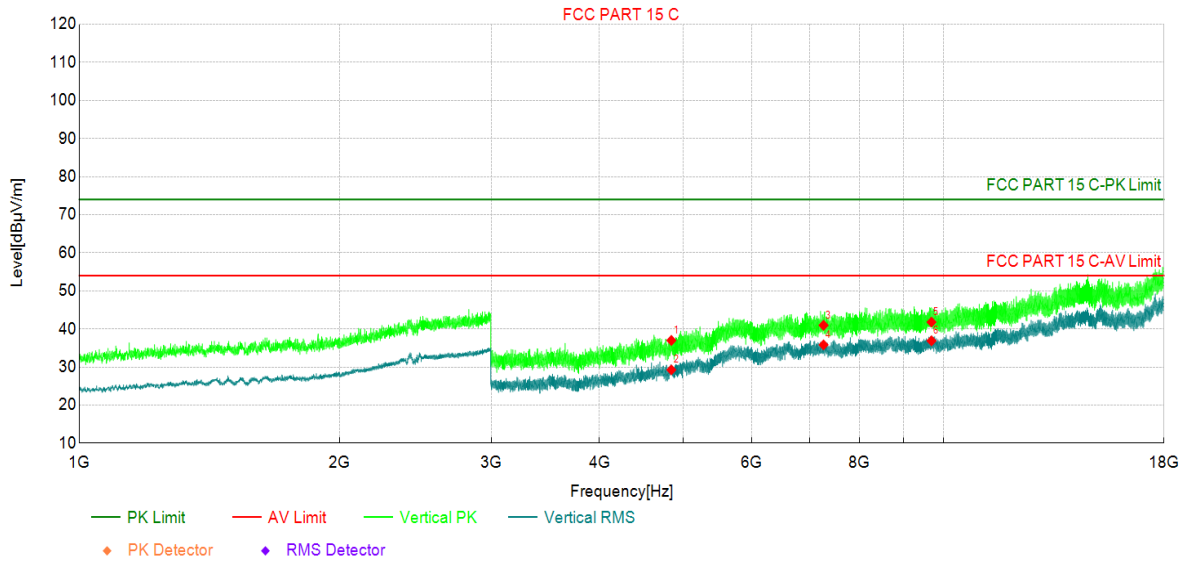
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4844	41.85	35.75	-6.10	74.00	38.25	PK	Horizo	PASS
2	4844	34.95	28.85	-6.10	54.00	25.15	RMS	Horizo	PASS
3	7266	38.87	41.69	2.82	74.00	32.31	PK	Horizo	PASS
4	7266	31.18	34.00	2.82	54.00	20.00	RMS	Horizo	PASS
5	9688	37.28	43.17	5.89	74.00	30.83	PK	Horizo	PASS
6	9688	31.69	37.58	5.89	54.00	16.42	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 4: Transmit at 2422MHz by 802.11n(40MHz)	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



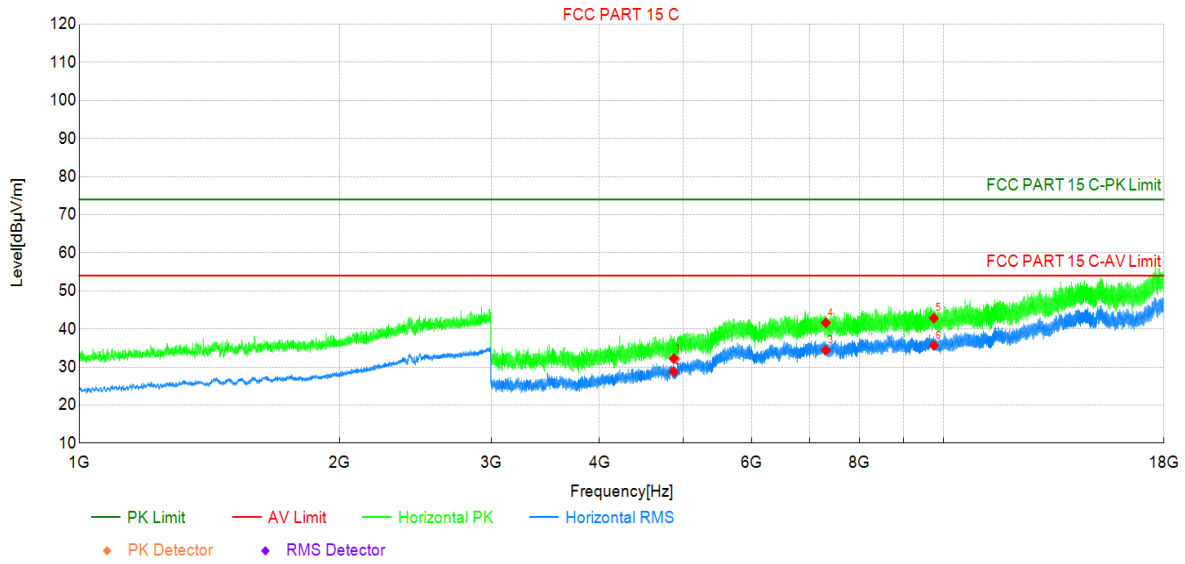
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4844	43.08	36.98	-6.10	74.00	37.02	PK	Vertic	PASS
2	4844	35.35	29.25	-6.10	54.00	24.75	RMS	Vertic	PASS
3	7266	38.14	40.96	2.82	74.00	33.04	PK	Vertic	PASS
4	7266	32.99	35.81	2.82	54.00	18.19	RMS	Vertic	PASS
5	9688	35.91	41.80	5.89	74.00	32.20	PK	Vertic	PASS
6	9688	30.99	36.88	5.89	54.00	17.12	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 4: Transmit at 2437MHz by 802.11n(40MHz)	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



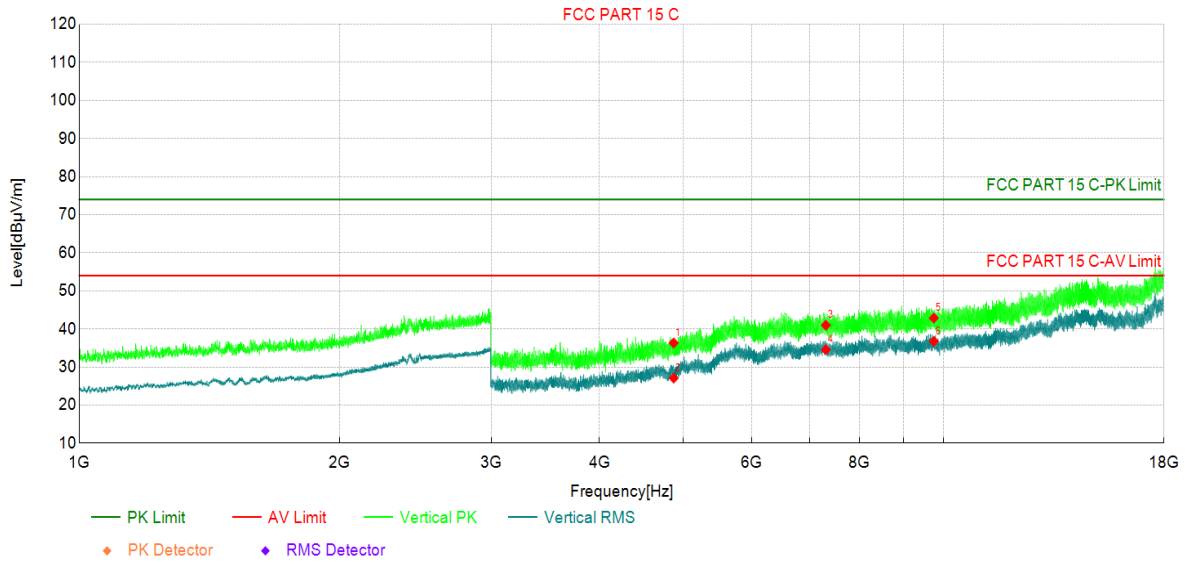
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4874	38.32	32.20	-6.12	74.00	41.80	PK	Horizo	PASS
2	4874	34.88	28.76	-6.12	54.00	25.24	RMS	Horizo	PASS
3	7311	31.67	34.39	2.72	54.00	19.61	RMS	Horizo	PASS
4	7311	38.90	41.62	2.72	74.00	32.38	PK	Horizo	PASS
5	9748	36.98	42.81	5.83	74.00	31.19	PK	Horizo	PASS
6	9748	29.83	35.66	5.83	54.00	18.34	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 4: Transmit at 2437MHz by 802.11n(40MHz)	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



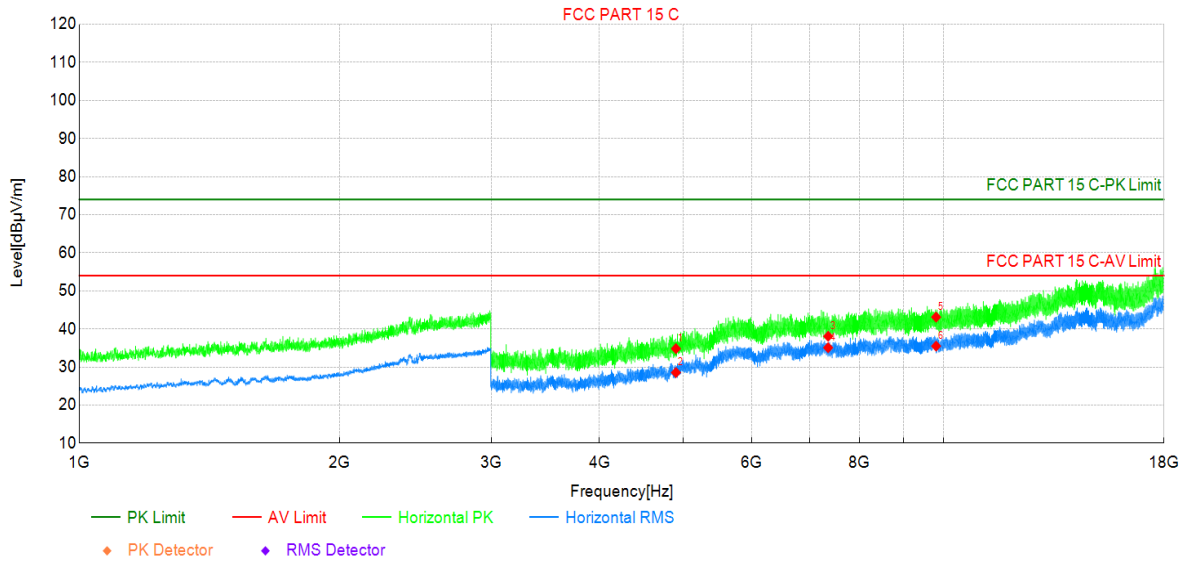
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4874	42.44	36.32	-6.12	74.00	37.68	PK	Vertic	PASS
2	4874	33.22	27.10	-6.12	54.00	26.90	RMS	Vertic	PASS
3	7311	38.26	40.98	2.72	74.00	33.02	PK	Vertic	PASS
4	7311	31.83	34.55	2.72	54.00	19.45	RMS	Vertic	PASS
5	9748	37.02	42.85	5.83	74.00	31.15	PK	Vertic	PASS
6	9748	30.91	36.74	5.83	54.00	17.26	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 4: Transmit at 2452MHz by 802.11n(40MHz)	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



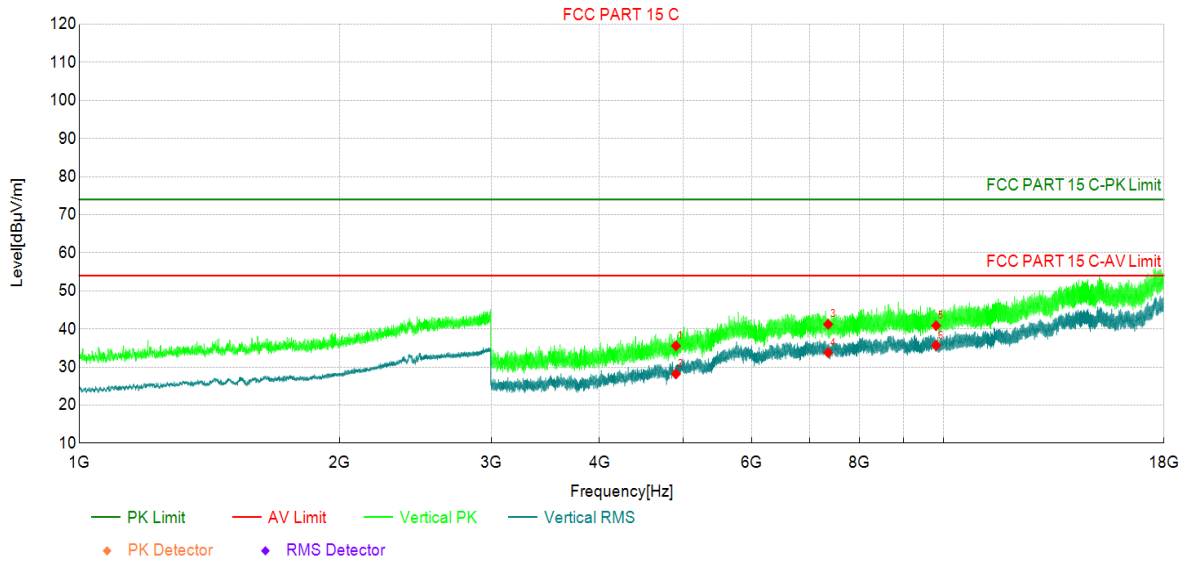
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4904	40.90	34.82	-6.08	74.00	39.18	PK	Horizo	PASS
2	4904	34.62	28.54	-6.08	54.00	25.46	RMS	Horizo	PASS
3	7356	35.69	38.07	2.38	74.00	35.93	PK	Horizo	PASS
4	7356	32.70	35.08	2.38	54.00	18.92	RMS	Horizo	PASS
5	9808	37.43	43.11	5.68	74.00	30.89	PK	Horizo	PASS
6	9808	29.81	35.49	5.68	54.00	18.51	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 4: Transmit at 2452MHz by 802.11n(40MHz)	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



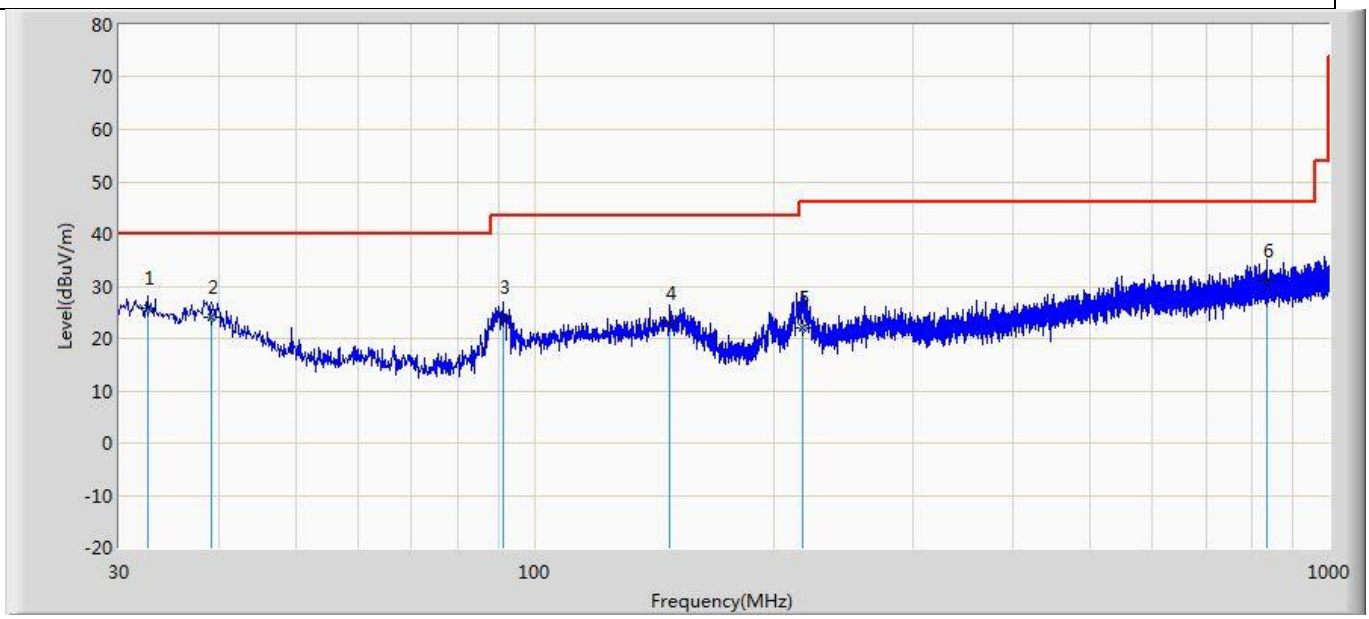
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4904	41.63	35.55	-6.08	74.00	38.45	PK	Vertic	PASS
2	4904	34.28	28.20	-6.08	54.00	25.80	RMS	Vertic	PASS
3	7356	38.84	41.22	2.38	74.00	32.78	PK	Vertic	PASS
4	7356	31.41	33.79	2.38	54.00	20.21	RMS	Vertic	PASS
5	9808	35.18	40.86	5.68	74.00	33.14	PK	Vertic	PASS
6	9808	29.98	35.66	5.68	54.00	18.34	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

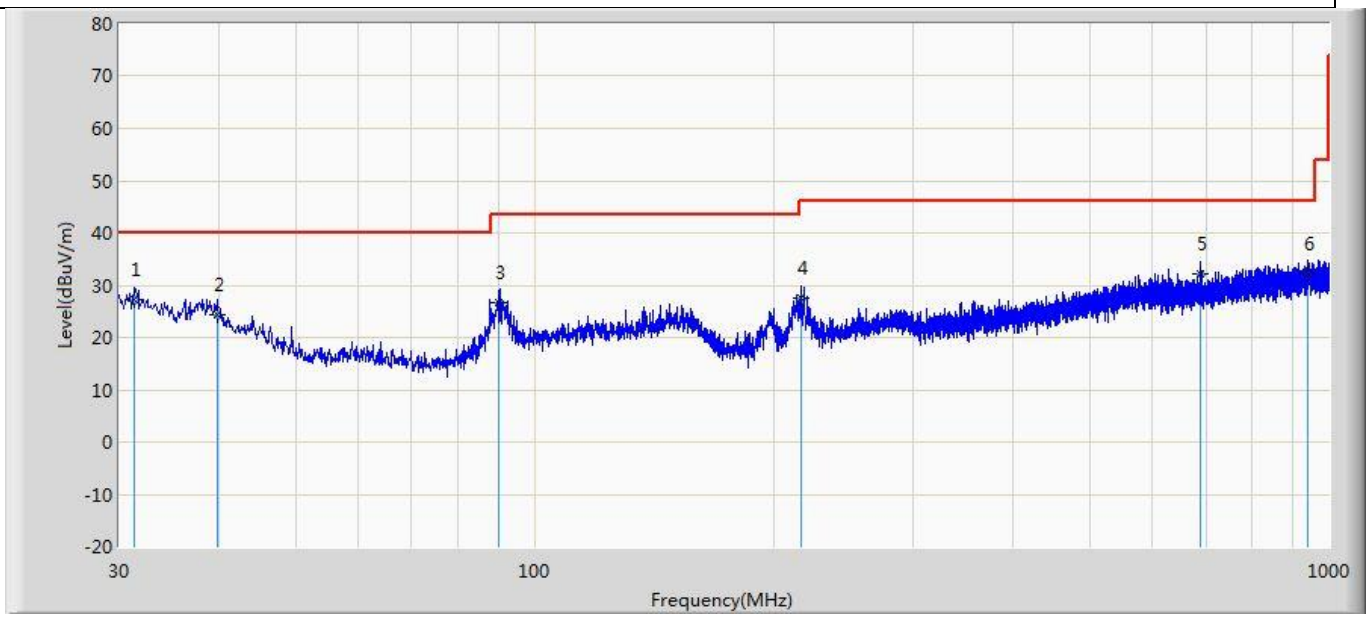
The worst case of Radiated Emission below 1GHz：

Profile: 24A0319R	Page No.: 5
Engineer: Yu Liu	
Site: AC2	Time: 2024/10/25 - 21:19
Limit: FCC_Part 15.109_RE (3m)_Class B	Margin: 0
Probe: CBL6112D_27613(30-1000MHz)	Polarity: Vertical
EUT: POS Terminal	Power: Battery Powered
Note: Mode 1: Transmit at 2412MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	32.546	25.825	2.112	-14.175	40.000	23.713	QP
2		39.215	24.032	4.036	-15.968	40.000	19.996	QP
3		91.231	24.180	8.011	-19.320	43.500	16.169	QP
4		148.219	23.017	5.446	-20.483	43.500	17.571	QP
5		217.331	21.950	5.463	-24.050	46.000	16.486	QP
6		834.857	31.035	1.698	-14.965	46.000	29.336	QP

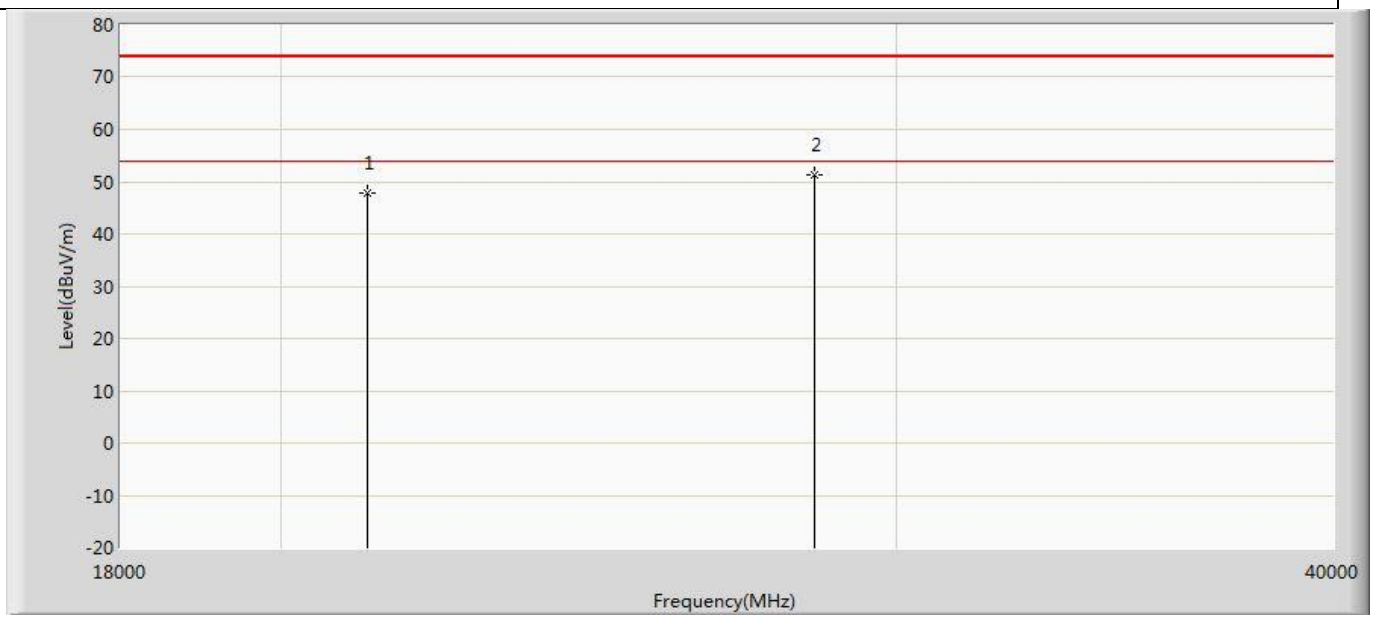
Profile: 24A0319R	Page No.: 6
Engineer: Yu Liu	
Site: AC2	Time: 2024/10/25 - 21:20
Limit: FCC_Part 15.109_RE (3m)_Class B	Margin: 0
Probe: CBL6112D_27613(30-1000MHz)	Polarity: Horizontal
EUT: POS Terminal	Power: Battery Powered
Note: Mode 1: Transmit at 2412MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	31.334	27.142	2.891	-12.858	40.000	24.251	QP
2		39.821	24.354	4.682	-15.646	40.000	19.672	QP
3		90.019	26.581	10.687	-16.919	43.500	15.893	QP
4		216.482	27.541	11.065	-18.459	46.000	16.476	QP
5		689.357	32.126	4.441	-13.874	46.000	27.685	QP
6		939.375	32.145	1.689	-13.855	46.000	30.455	QP

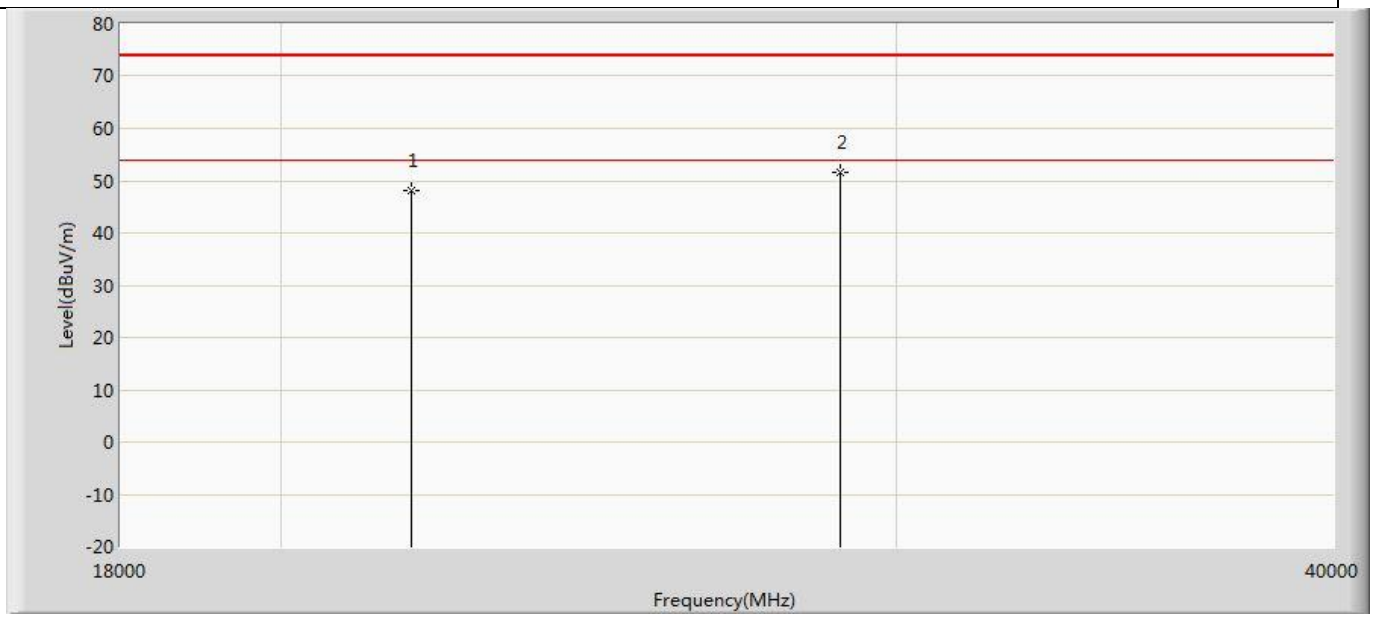
The worst case of Radiated Emission above 18GHz：

Profile: 24A0319R	Page No.: 77
Engineer: Yuliu	
Site: AC5	Time: 2024/10/25 - 22:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9170_294(18-40GHz)	Polarity: Horizontal
EUT: POS Terminal	Power: Battery Powered
Note: Mode 1: Transmit at 2412MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		21190.000	47.928	48.887	-26.072	74.000	-0.959	PK
2	*	28428.000	51.395	48.828	-22.605	74.000	2.567	PK

Profile: 24A0319R	Page No.: 78
Engineer: Yuliu	
Site: AC5	Time: 2024/10/25 - 22:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9170_294(18-40GHz)	Polarity: Vertical
EUT: POS Terminal	Power: Battery Powered
Note: Mode 1: Transmit at 2412MHz by 802.11b	

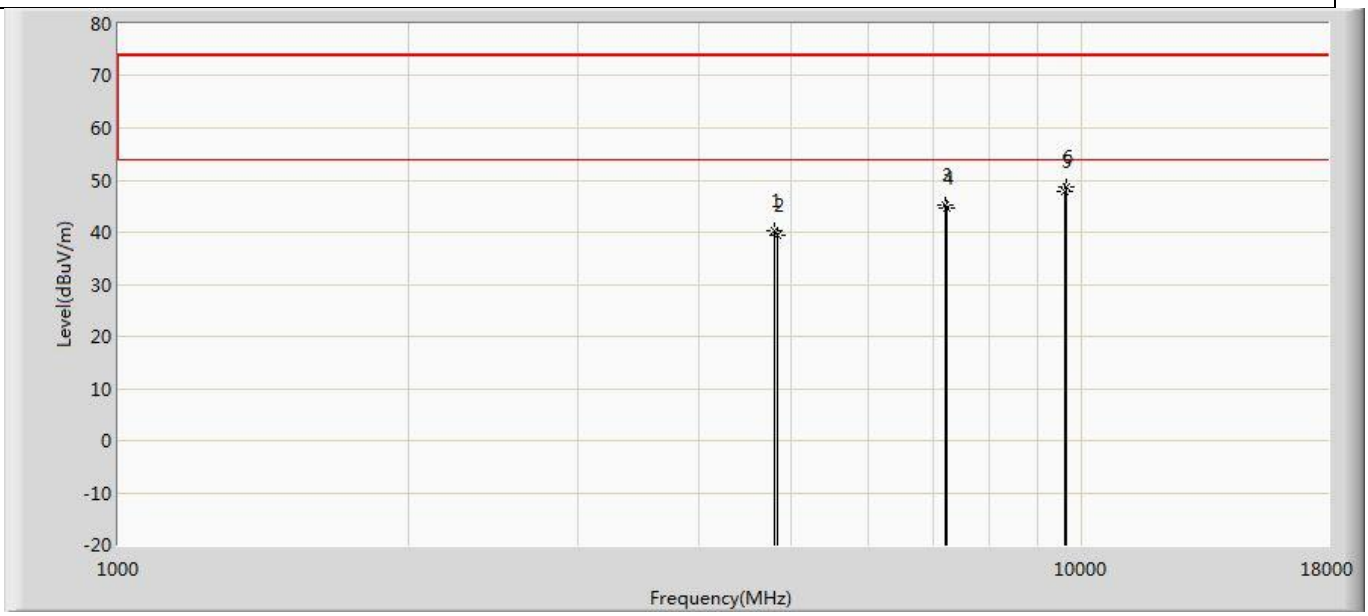


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		21806.000	48.172	48.577	-25.828	74.000	-0.405	PK
2	*	28912.000	51.546	49.366	-22.454	74.000	2.180	PK

Note:
1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp)
3. The test frequency range, 9kHz~30MHz, worst case are at least 20dB below the limits, therefore no data appear in the report.
4. If the test result on peak is lower than average limit, then average measurement needn't be performed.

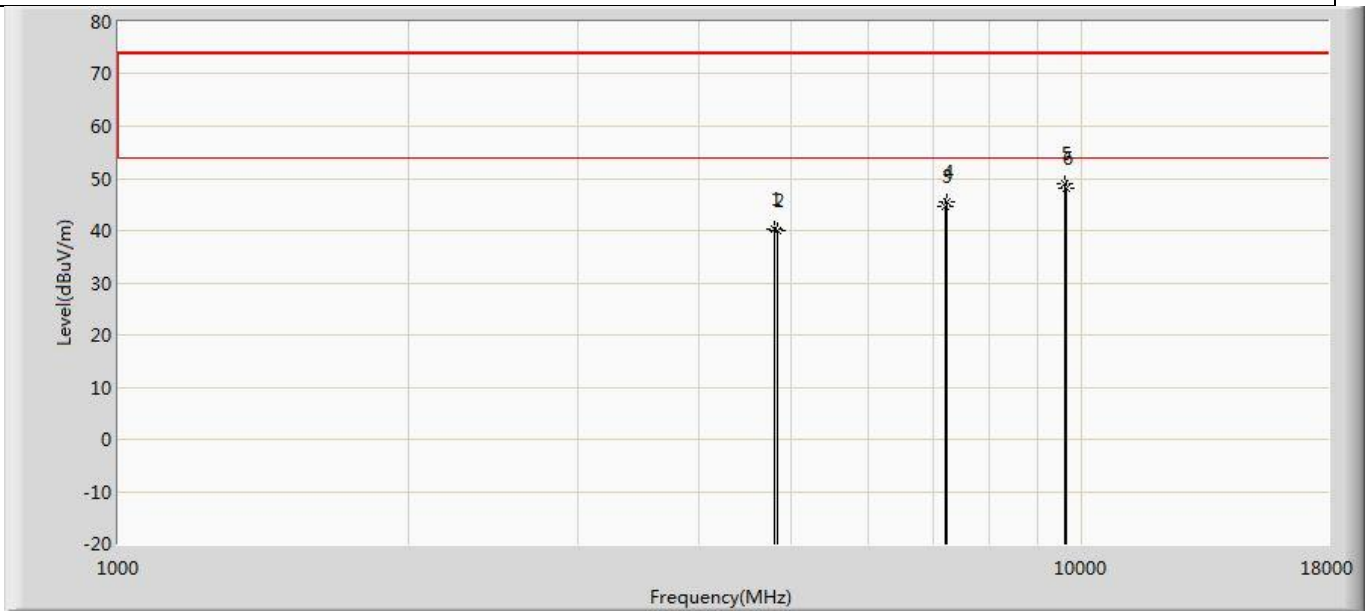
The worst case of Simultaneous Radiated Emission:

Profile: 24A0319R	Page No.: 5
Engineer: Yu Liu	
Site: AC5	Time: 2024/10/25 - 09:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00123988(1-18GHz)	Polarity: Horizontal
EUT: POS Terminal	Power: Battery Powered
Note: Mode 1：Transmit at WWAN worst case & Transmit at 2402MHz by DH5 & 2412MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	40.325	54.576	-33.675	74.000	-14.251	PK
2		4824.000	39.506	53.746	-34.494	74.000	-14.240	PK
3		7206.000	45.322	53.712	-28.678	74.000	-8.390	PK
4		7236.000	44.505	52.968	-29.495	74.000	-8.463	PK
5		9608.000	47.823	51.386	-26.177	74.000	-3.563	PK
6	*	9648.000	48.724	52.250	-25.276	74.000	-3.527	PK

Profile: 24A0319R	Page No.: 6
Engineer: Yu Liu	
Site: AC5	Time: 2024/10/25 - 09:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00123988(1-18GHz)	Polarity: Vertical
EUT: POS Terminal	Power: Battery Powered
Note: Mode 1：Transmit at WWAN worst case & Transmit at 2402MHz by DH5 & 2412MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	40.380	54.631	-33.620	74.000	-14.251	PK
2		4824.000	39.990	54.230	-34.010	74.000	-14.240	PK
3		7206.000	44.689	53.079	-29.311	74.000	-8.390	PK
4		7236.000	45.504	53.967	-28.496	74.000	-8.463	PK
5	*	9608.000	48.994	52.557	-25.006	74.000	-3.563	PK
6		9648.000	48.077	51.603	-25.923	74.000	-3.527	PK

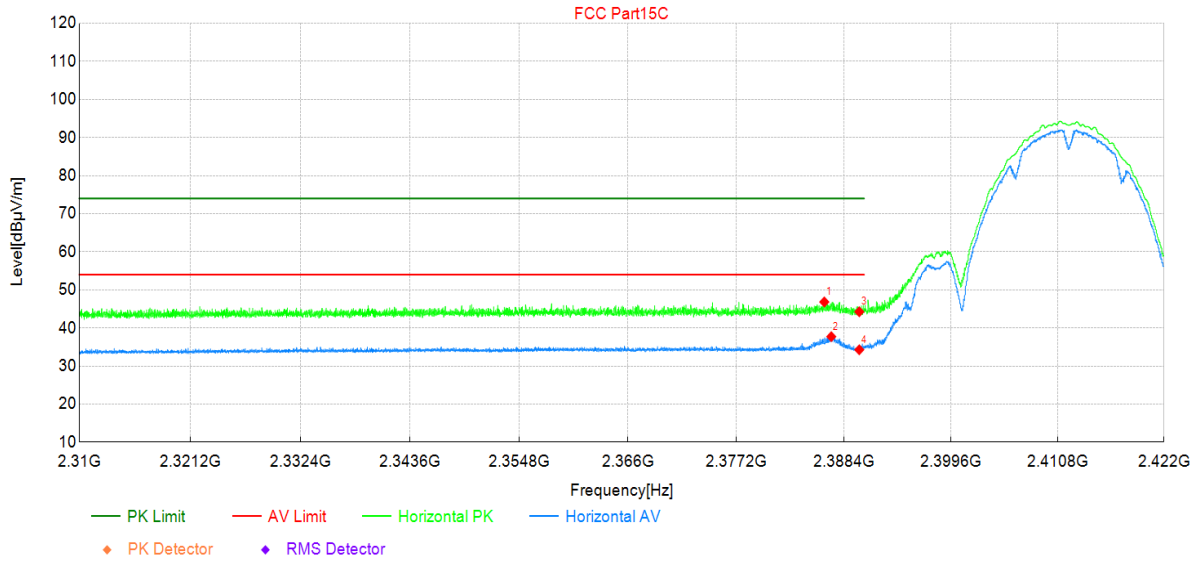
Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Appendix C: Band edge measurements

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 1: Transmit at 2412MHz by 802.11b	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph

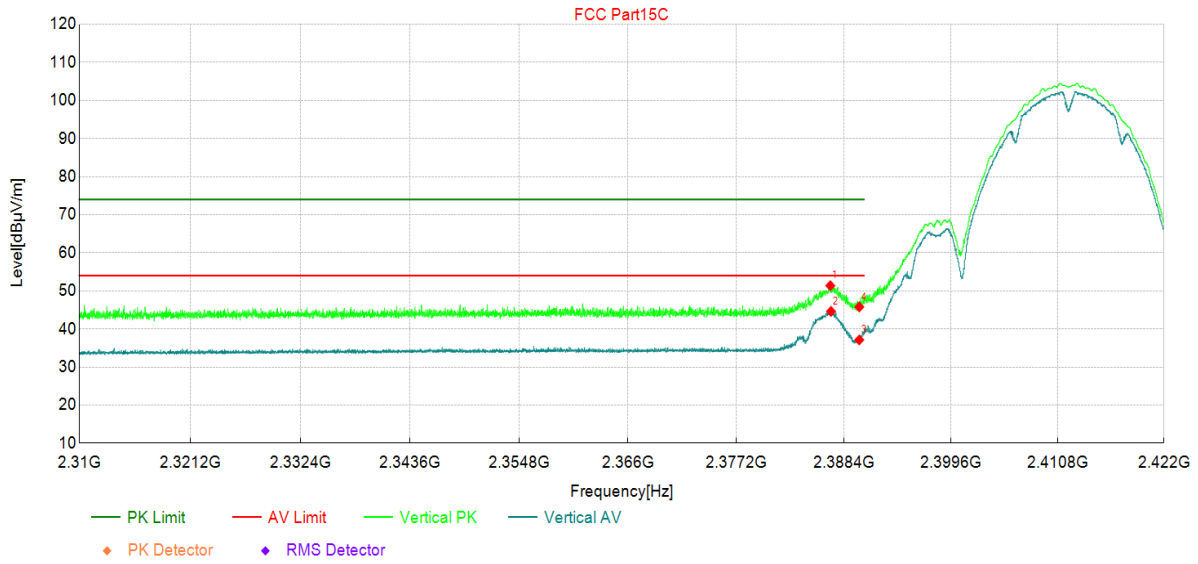


Suspected Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2386	43.15	46.82	3.67	74.00	27.18	PK	Horizo	PASS
2	2387	34.03	37.71	3.68	54.00	16.29	AV	Horizo	PASS
3	2390	40.55	44.25	3.70	74.00	29.75	PK	Horizo	PASS
4	2390	30.57	34.27	3.70	54.00	19.73	AV	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 1: Transmit at 2412MHz by 802.11b	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



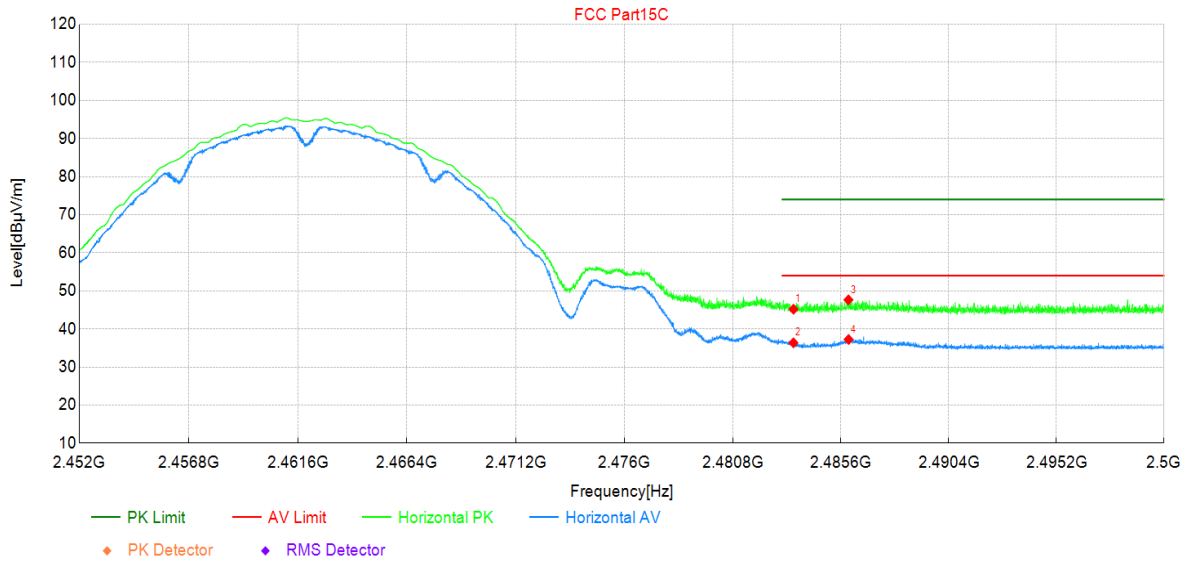
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2387	47.67	51.35	3.68	74.00	22.65	PK	Vertic	PASS
2	2387	40.92	44.60	3.68	54.00	9.40	AV	Vertic	PASS
3	2390	33.42	37.12	3.70	54.00	16.88	AV	Vertic	PASS
4	2390	42.09	45.79	3.70	74.00	28.21	PK	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 1: Transmit at 2462MHz by 802.11b	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



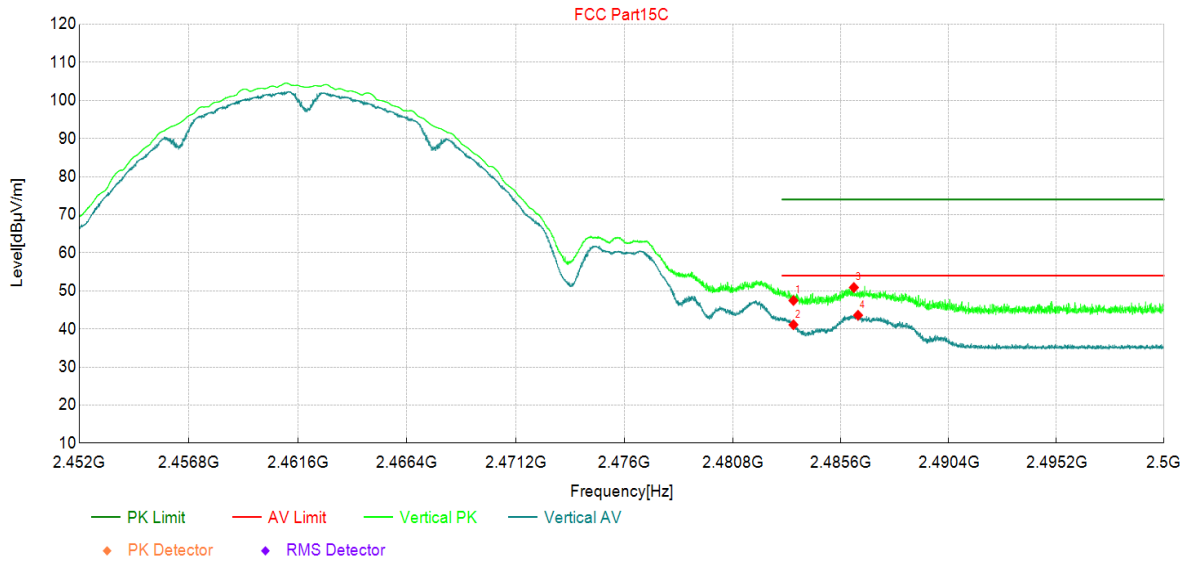
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2484	41.03	45.18	4.15	74.00	28.82	PK	Horizo	PASS
2	2484	32.21	36.36	4.15	54.00	17.64	AV	Horizo	PASS
3	2486	43.47	47.64	4.17	74.00	26.36	PK	Horizo	PASS
4	2486	33.06	37.23	4.17	54.00	16.77	AV	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 1: Transmit at 2462MHz by 802.11b	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph

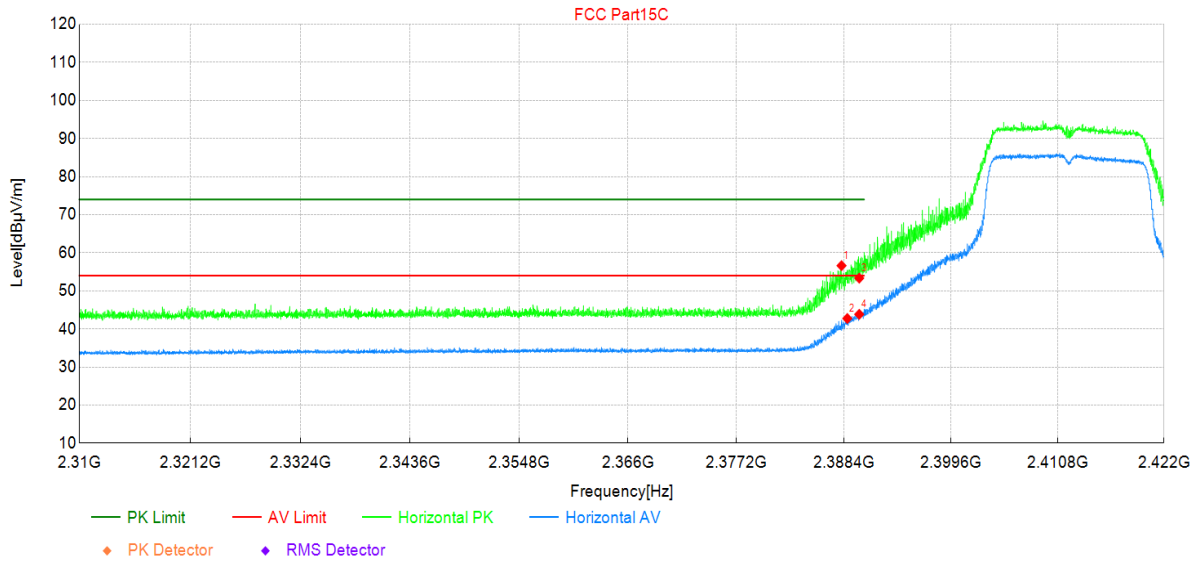


Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2484	43.31	47.46	4.15	74.00	26.54	PK	Vertic	PASS
2	2484	36.94	41.09	4.15	54.00	12.91	AV	Vertic	PASS
3	2486	46.71	50.88	4.17	74.00	23.12	PK	Vertic	PASS
4	2486	39.42	43.59	4.17	54.00	10.41	AV	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 2: Transmit at 2412MHz by 802.11g	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



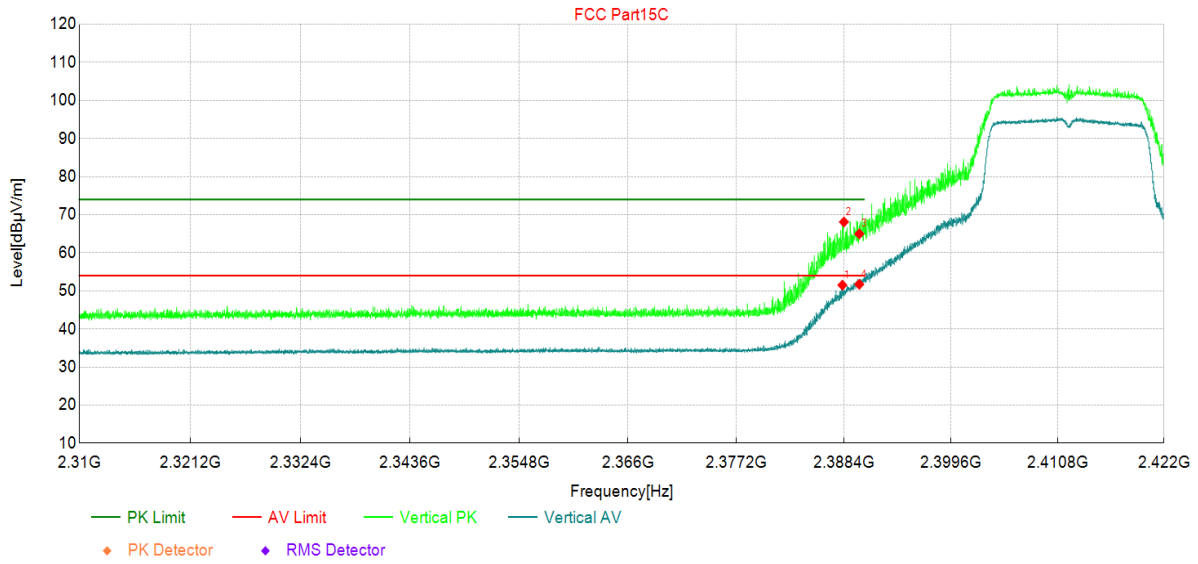
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2388	52.94	56.62	3.68	74.00	17.38	PK	Horizo	PASS
2	2389	39.06	42.74	3.68	54.00	11.26	AV	Horizo	PASS
3	2390	49.65	53.35	3.70	74.00	20.65	PK	Horizo	PASS
4	2390	40.14	43.84	3.70	54.00	10.16	AV	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 2: Transmit at 2412MHz by 802.11g	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



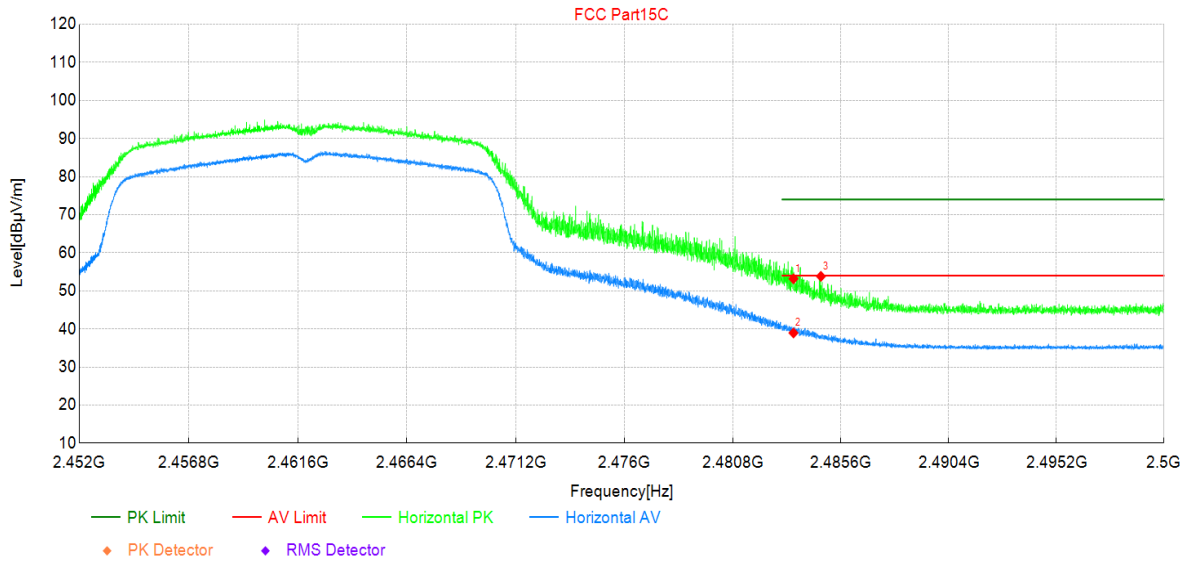
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2388	47.83	51.51	3.68	54.00	2.49	AV	Vertic	PASS
2	2388	64.42	68.10	3.68	74.00	5.90	PK	Vertic	PASS
3	2390	61.28	64.98	3.70	74.00	9.02	PK	Vertic	PASS
4	2390	48.02	51.72	3.70	54.00	2.28	AV	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 2: Transmit at 2462MHz by 802.11g	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



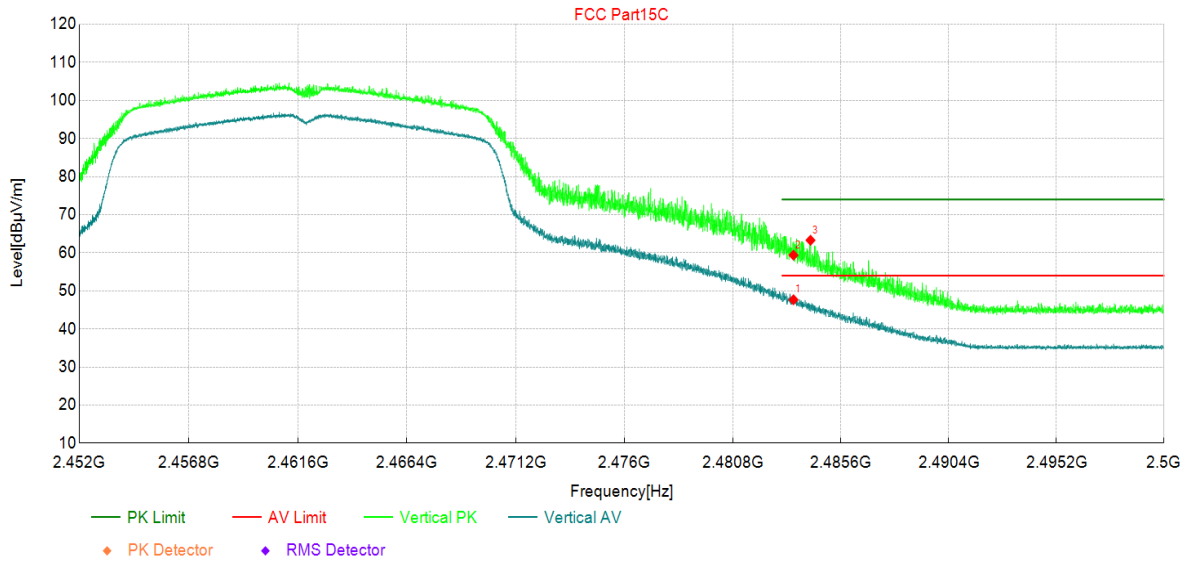
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2484	49.02	53.17	4.15	74.00	20.83	PK	Horizo	PASS
2	2484	34.80	38.95	4.15	54.00	15.05	AV	Horizo	PASS
3	2485	49.65	53.82	4.17	74.00	20.18	PK	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 2: Transmit at 2462MHz by 802.11g	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



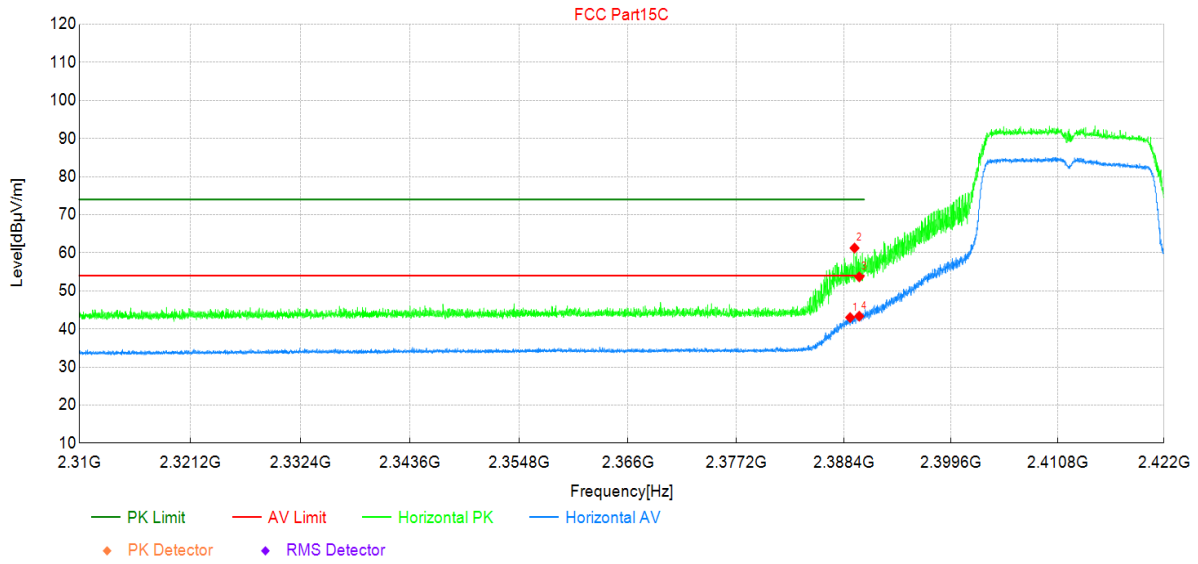
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2484	43.51	47.66	4.15	54.00	6.34	AV	Vertic	PASS
2	2484	55.23	59.38	4.15	74.00	14.62	PK	Vertic	PASS
3	2484	59.13	63.30	4.17	74.00	10.70	PK	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 3: Transmit at 2412MHz by 802.11n(20MHz)	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



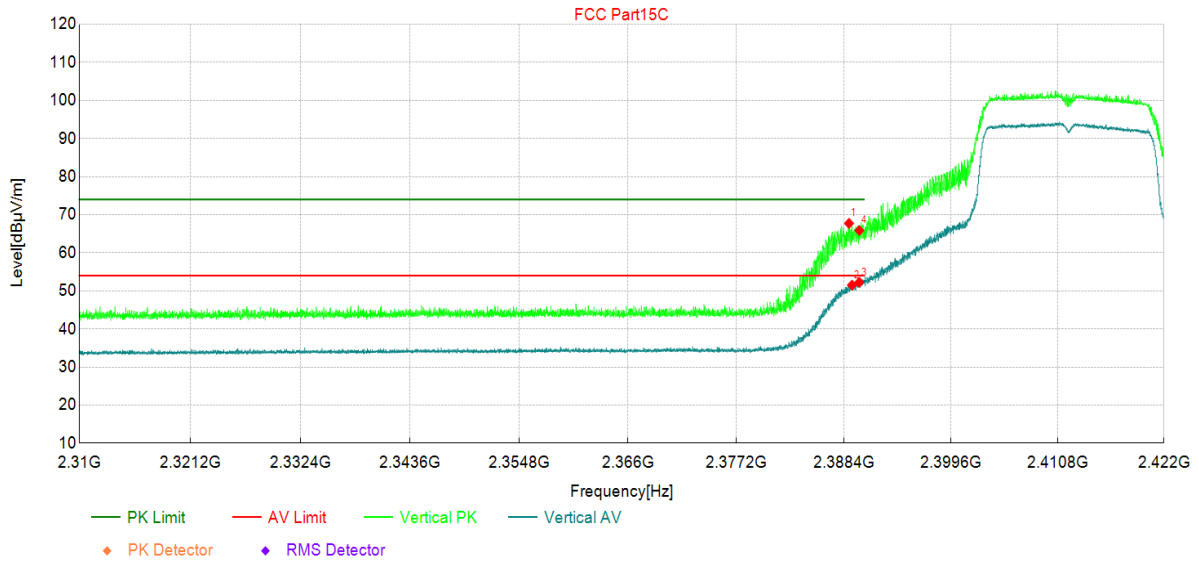
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2389	39.33	43.01	3.68	54.00	10.99	AV	Horizo	PASS
2	2390	57.56	61.25	3.69	74.00	12.75	PK	Horizo	PASS
3	2390	49.97	53.67	3.70	74.00	20.33	PK	Horizo	PASS
4	2390	39.65	43.35	3.70	54.00	10.65	AV	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 3: Transmit at 2412MHz by 802.11n(20MHz)	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



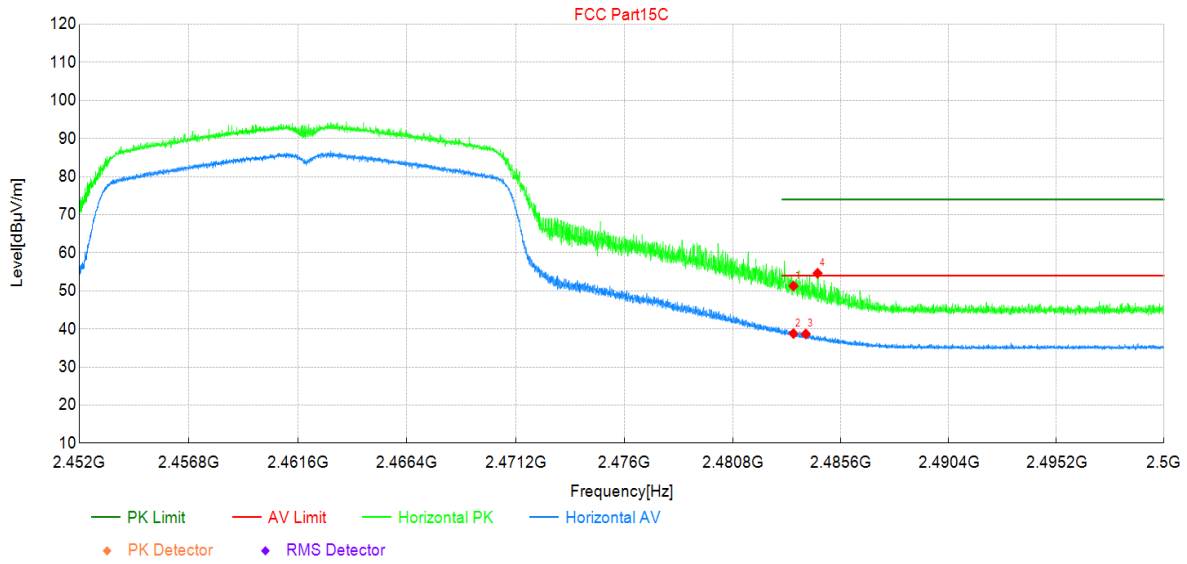
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2389	64.05	67.73	3.68	74.00	6.27	PK	Vertic	PASS
2	2389	47.82	51.50	3.68	54.00	2.50	AV	Vertic	PASS
3	2390	48.54	52.24	3.70	54.00	1.76	AV	Vertic	PASS
4	2390	62.16	65.86	3.70	74.00	8.14	PK	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 3: Transmit at 2462MHz by 802.11n(20MHz)	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



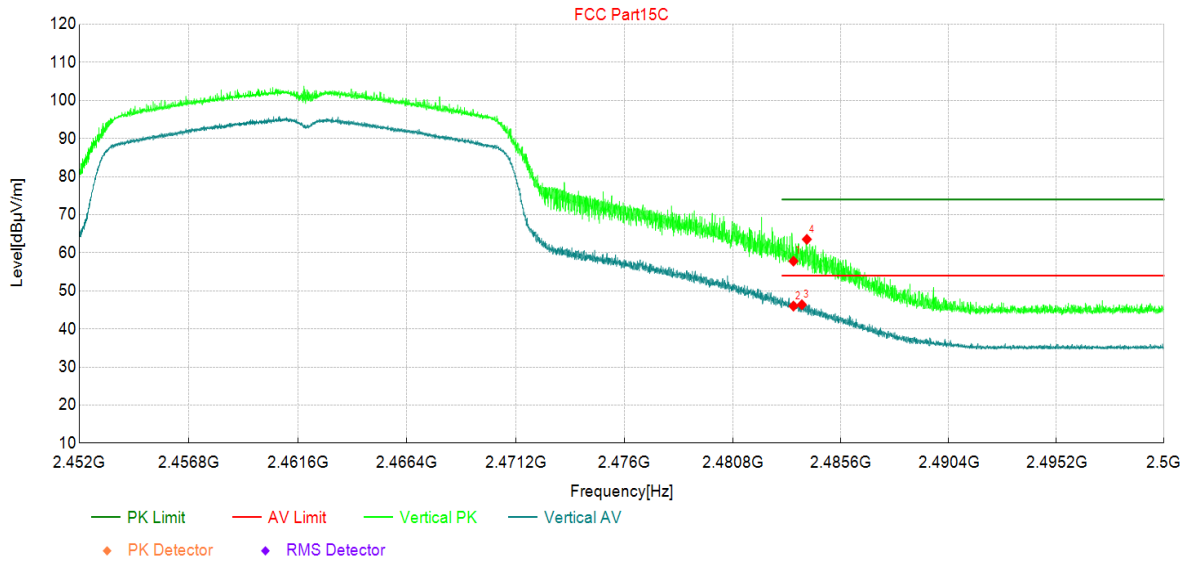
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2484	47.13	51.28	4.15	74.00	22.72	PK	Horizo	PASS
2	2484	34.63	38.78	4.15	54.00	15.22	AV	Horizo	PASS
3	2484	34.52	38.68	4.16	54.00	15.32	AV	Horizo	PASS
4	2485	50.46	54.63	4.17	74.00	19.37	PK	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 3: Transmit at 2462MHz by 802.11n(20MHz)	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



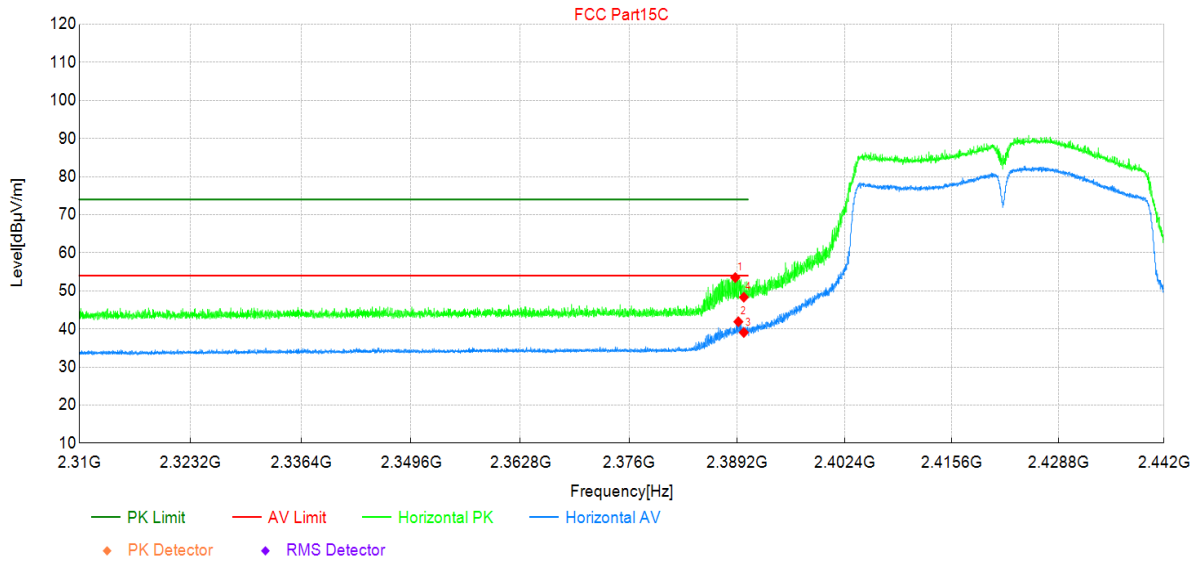
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2484	53.66	57.81	4.15	74.00	16.19	PK	Vertic	PASS
2	2484	41.85	46.00	4.15	54.00	8.00	AV	Vertic	PASS
3	2484	42.21	46.36	4.15	54.00	7.64	AV	Vertic	PASS
4	2484	59.36	63.53	4.17	74.00	10.47	PK	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 4: Transmit at 2422MHz by 802.11n(40MHz)	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



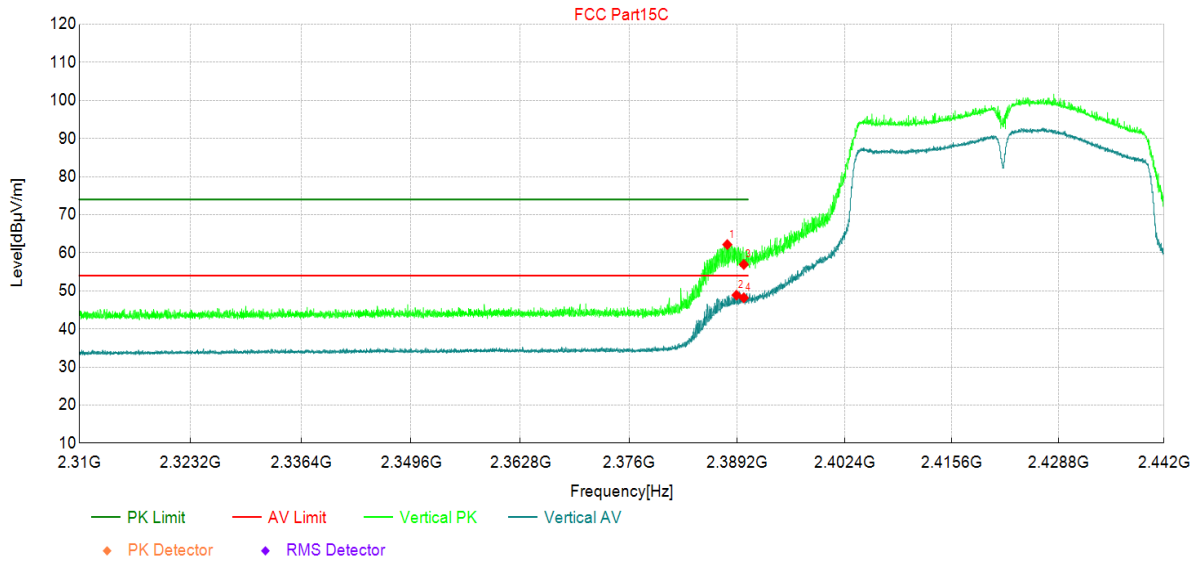
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2389	49.81	53.49	3.68	74.00	20.51	PK	Horizo	PASS
2	2389	38.20	41.89	3.69	54.00	12.11	AV	Horizo	PASS
3	2390	35.37	39.07	3.70	54.00	14.93	AV	Horizo	PASS
4	2390	44.64	48.34	3.70	74.00	25.66	PK	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 4: Transmit at 2422MHz by 802.11n(40MHz)	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



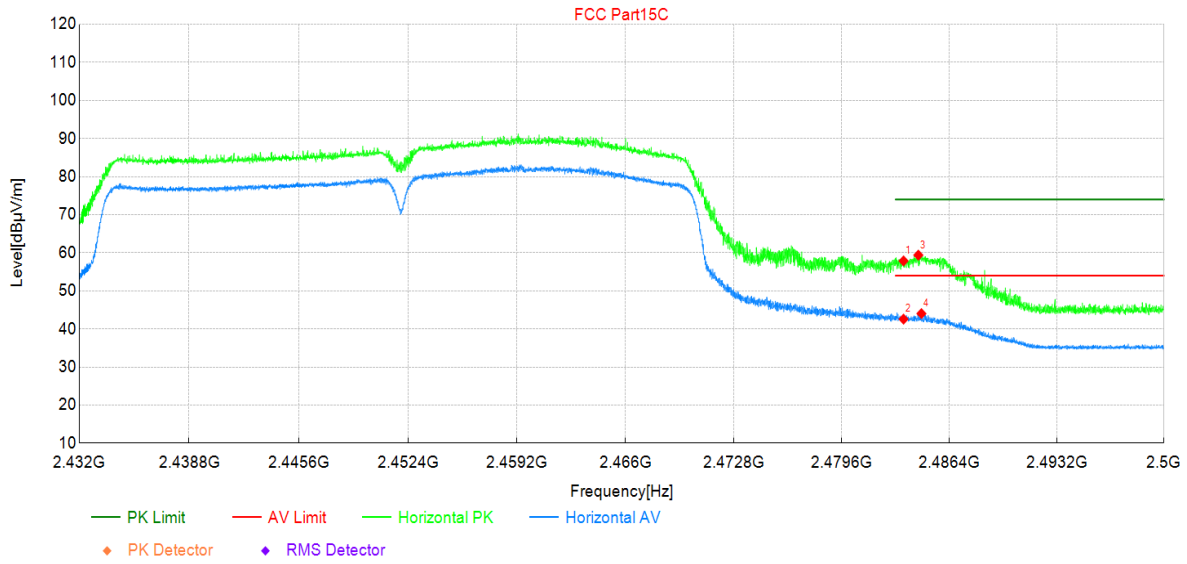
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2388	58.48	62.16	3.68	74.00	11.84	PK	Vertic	PASS
2	2389	45.20	48.88	3.68	54.00	5.12	AV	Vertic	PASS
3	2390	53.24	56.94	3.70	74.00	17.06	PK	Vertic	PASS
4	2390	44.47	48.17	3.70	54.00	5.83	AV	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 4: Transmit at 2452MHz by 802.11n(40MHz)	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



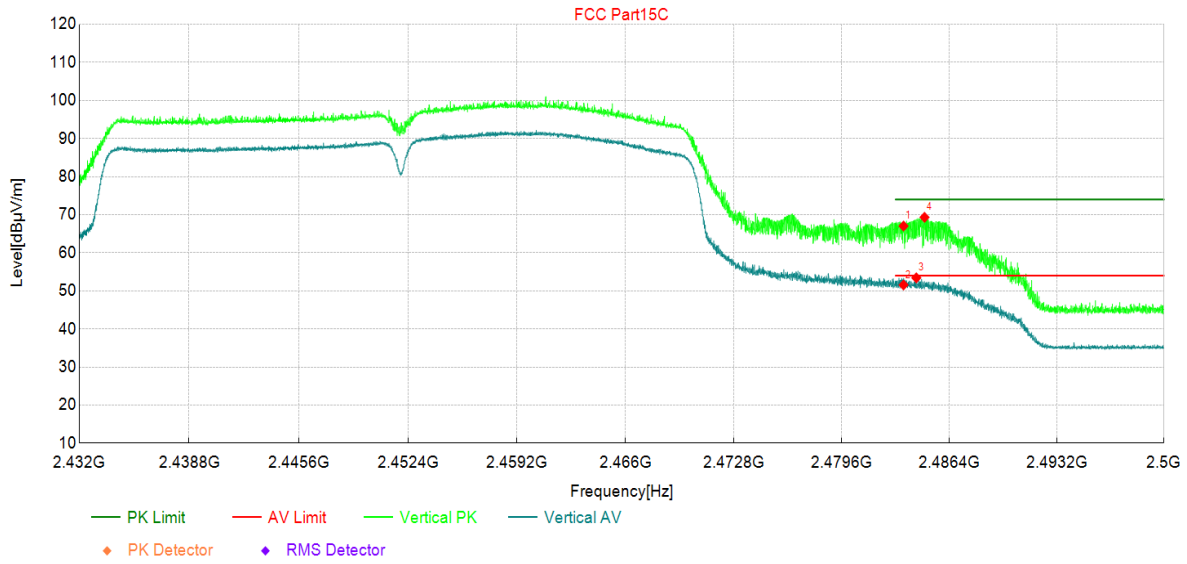
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2484	53.71	57.86	4.15	74.00	16.14	PK	Horizo	PASS
2	2484	38.43	42.58	4.15	54.00	11.42	AV	Horizo	PASS
3	2484	55.22	59.39	4.17	74.00	14.61	PK	Horizo	PASS
4	2485	39.86	44.03	4.17	54.00	9.97	AV	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Project Information			
Profile:	24A0319R	EUT:	POS Terminal
Mode:	Mode 4: Transmit at 2452MHz by 802.11n(40MHz)	Voltage:	Battery Powered
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



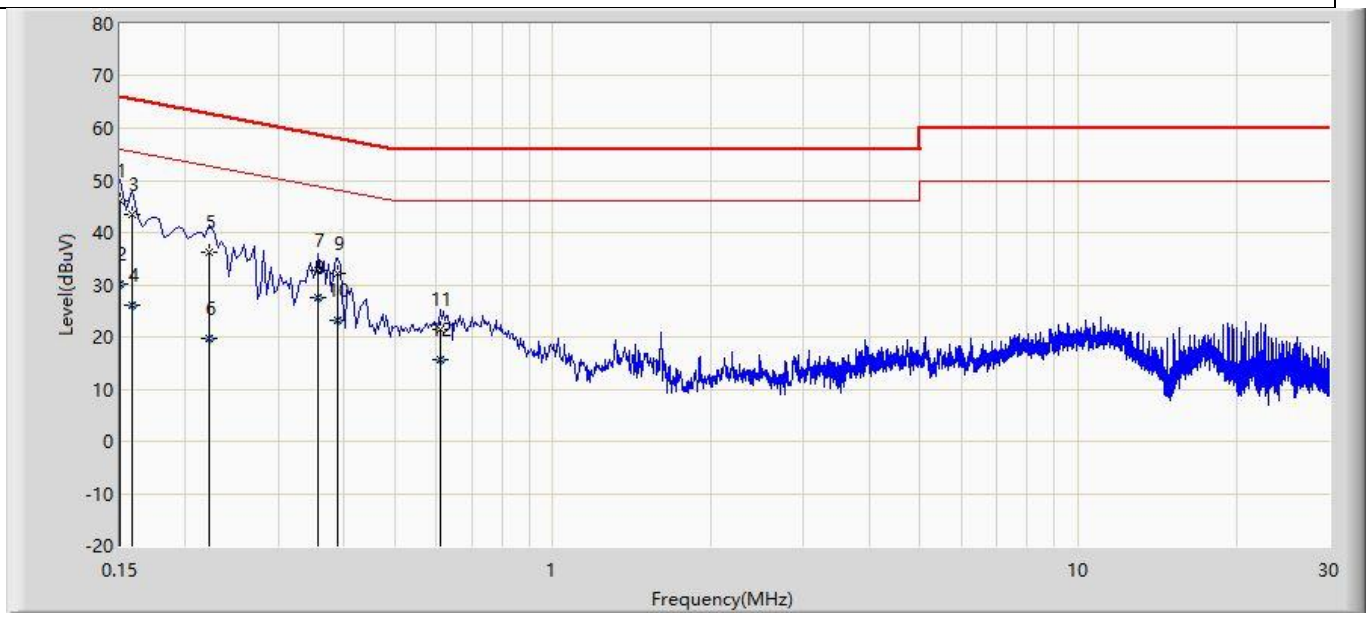
Suspected Data List

NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2484	62.88	67.03	4.15	74.00	6.97	PK	Vertic	PASS
2	2484	47.41	51.56	4.15	54.00	2.44	AV	Vertic	PASS
3	2484	49.25	53.42	4.17	54.00	0.58	AV	Vertic	PASS
4	2485	65.15	69.32	4.17	74.00	4.68	PK	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Appendix D: AC Power Line Conducted Emission

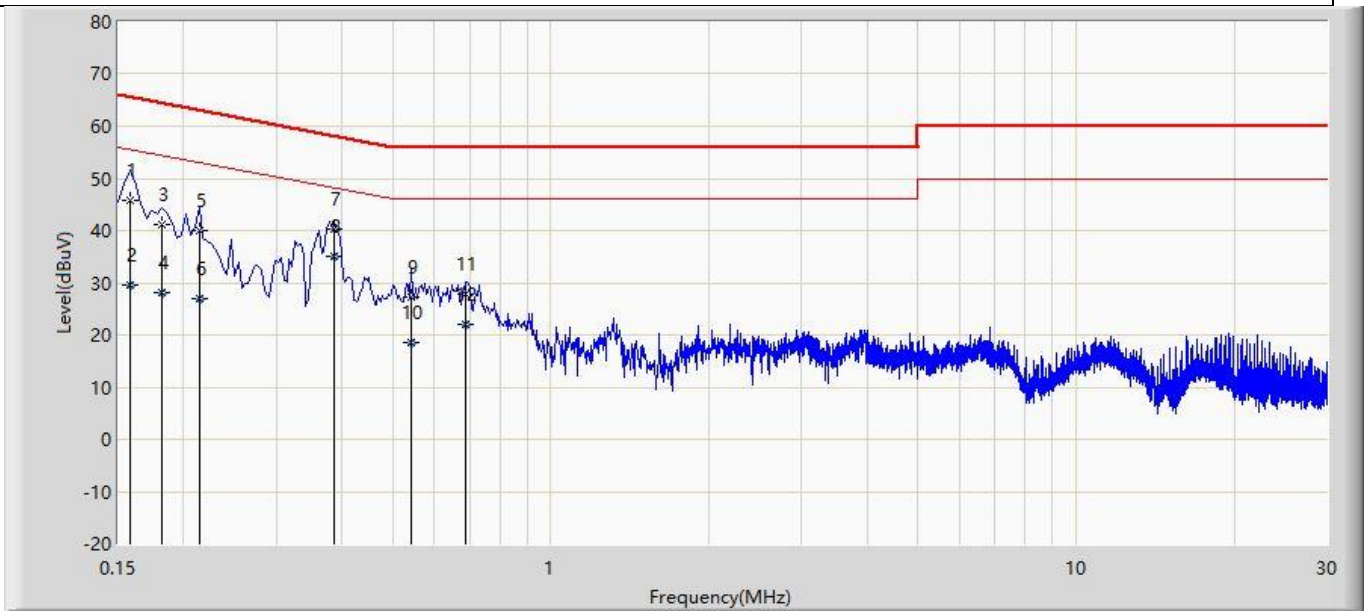
Profile: 24A0319R	Page No.: 31
Engineer: Yu Liu	
Site: TR1	Time: 2024/10/22 - 16:46
Limit: FCC_Part 15.207	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Neutral
EUT: POS Terminal	Power: 120 Vac / 60 Hz
Note: Mode: L-Line	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1	*	0.150	46.043	36.477	-19.957	66.000	9.539	0.028	0.000	QP
2		0.150	30.255	20.689	-25.745	56.000	9.539	0.028	0.000	AV
3		0.158	43.466	33.897	-22.102	65.568	9.542	0.028	0.000	QP
4		0.158	26.053	16.483	-29.516	55.568	9.542	0.028	0.000	AV
5		0.222	36.224	26.643	-26.520	62.744	9.552	0.028	0.000	QP
6		0.222	19.709	10.128	-33.035	52.744	9.552	0.028	0.000	AV
7		0.358	32.797	23.206	-25.978	58.775	9.566	0.025	0.000	QP
8		0.358	27.599	18.007	-21.176	48.775	9.566	0.025	0.000	AV
9		0.390	32.291	22.682	-25.772	58.064	9.569	0.040	0.000	QP
10		0.390	23.216	13.607	-24.847	48.064	9.569	0.040	0.000	AV
11		0.610	21.378	11.749	-34.622	56.000	9.580	0.049	0.000	QP
12		0.610	15.562	5.933	-30.438	46.000	9.580	0.049	0.000	AV

Note:
1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 24A0319R	Page No.: 32
Engineer: Yu Liu	
Site: TR1	Time: 2024/10/22 - 16:49
Limit: FCC_Part 15.207	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Neutral
EUT: POS Terminal	Power: 120 Vac / 60 Hz
Note: Mode：Neutral	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.158	45.771	36.191	-19.797	65.568	9.552	0.028	0.000	QP
2		0.158	29.470	19.890	-26.099	55.568	9.552	0.028	0.000	AV
3		0.182	41.144	31.558	-23.250	64.394	9.557	0.030	0.000	QP
4		0.182	28.222	18.635	-26.172	54.394	9.557	0.030	0.000	AV
5		0.214	40.098	30.510	-22.951	63.049	9.561	0.027	0.000	QP
6		0.214	27.083	17.496	-25.965	53.049	9.561	0.027	0.000	AV
7		0.386	40.190	30.579	-17.960	58.149	9.572	0.038	0.000	QP
8	*	0.386	34.949	25.339	-13.200	48.149	9.572	0.038	0.000	AV
9		0.542	27.176	17.550	-28.824	56.000	9.582	0.043	0.000	QP
10		0.542	18.685	9.060	-27.315	46.000	9.582	0.043	0.000	AV
11		0.690	27.839	18.195	-28.161	56.000	9.589	0.055	0.000	QP
12		0.690	21.893	12.249	-24.107	46.000	9.589	0.055	0.000	AV

Note:
1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

The End