FCC PART 15.247

TEST REPORT

For

Xiamen Milesight IoT Co., Ltd.

Building C09, Software Park Phase III, Xiamen 361024, Fujian, China

FCC ID: 2AYHY-VS125P

Report Type:	**Product Name:**
Original Report	AI Stereo Vision People Counter

Report Number:	2407T78483E-RF-01
Report Date:	2024-08-31
Reviewed By:	Stein Peng
Approved By:	Miles Chen
Prepared By:	Bay Area Compliance Laboratories Corp. (Xiamen) Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone XiaMen Tel: +86-592-3200111 www.baclcorp.com.cn

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2407T78483E-RF-01	R1V1	2024-08-31	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product Name:		AI Stereo Vision People Counter
Tested Model:		VS125-P
Multiple Model(s):		NF125-P, VS125, NF125
Power Supply:		DC 12V from Adapter or DC 48V from PoE
Adapter Information	Model:	FJ-SW126K1201000DU
	Input:	AC 100-240V, 50/60Hz, 0.4A Max
	Output:	DC 12V, 1A
Maximum Conducted Output Power:		15.13dBm
Frequency Range:		2412-2462MHz
Modulation Technique:		802.11b: DSSS-DBPSK, DQPSK, CCK 802.11g/n: OFDM-BPSK, QPSK, 16QAM, 64QAM
Antenna Type:		PCB
★Maximum Antenna Gain:		0.07dBi
EUT Received Status:		Good

Note:
1. The Maximum Antenna Gain was declared by manufacturer.
2. The model difference please refer to declaration letter.
3. All measurement and test data in this report was gathered from production sample serial number: 2M5Q-1 (Assigned by the BACL(Xiamen). The EUT supplied by the applicant was received on 2024-05-22)

Objective

This report is prepared on behalf of *Xiamen Milesight IoT Co., Ltd.* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

And KDB 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Xiamen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Xiamen) to collect test data is located on the Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone XiaMen.

Bay Area Compliance Laboratories Corp. (Xiamen) Lab is accredited to ISO/IEC 17025 by A2LA (Certificate Number: 7134.01) and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No. : CN1384.

Measurement Uncertainty

Item		U_{lab}
Conducted Emission	150kHz-30MHz	2.33 dB
Radiated Emission	9kHz-30MHz	2.59 dB
	30MHz~200MHz	4.38 dB
	200MHz~1GHz	4.50 dB
	1GHz~6GHz	4.58 dB
	6GHz-18GHz	5.43 dB
	18GHz~26.5GHz	5.47 dB
Occupied Channel Bandwidth		0.10MHz
Transmitter Conducted Power(Conducted RF power)		0.624 dB
Power Spectral Density		0.61dB
Duty Cycle		1%
Temperature		1℃
Humidity		5%
Supply voltages		0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

SYSTEM TEST CONFIGURATION

Test Mode and Voltage

The system was configured for testing in a typical mode (as normally used by a typical user).	
Test mode:	Transmitting
Test voltage:	AC 120V/60Hz
Remark:	During all emission tests, the EUT was configured to measure its highest possible emission level and the worst case's test data was presented in this test report.

Description of Test Configuration

For 802.11b, 802.11g, 802.11n-ht20, 802.11n-ht40 mode, 11 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	/	/
6	2437	/	/
7	2442	/	/

For 802.11b, 802.11g, 802.11n-ht20 mode, EUT was tested with Channel 1, 6 and 11.
For 802.11n-ht40 mode, EUT was tested with Channel 3, 6 and 9.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

Wi-Fi test in the engineer mode.

RF Test Tool: putty.exe

The device was tested with the worst case was performed as below:

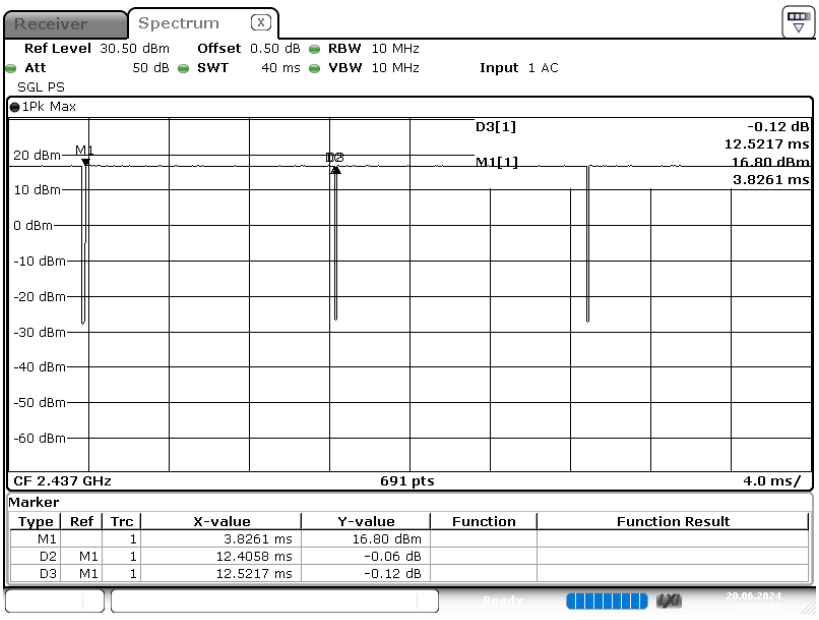
Mode	Data rate	Power level		
		Low channel	Middle channel	High channel
802.11b	1 Mbps	60	60	60
802.11g	6 Mbps	60	60	60
802.11n-ht20	MCS0	60	60	60
802.11n-ht40	MCS0	60	60	60

Pre-scan with all the data rates, the above data rate is the worst case for Wi-Fi test.

Duty cycle

Modes	Ton (ms)	Ton + off (ms)	Duty cycle (%)	1/T (Hz)	Duty Factor (dB)	VBW Setting (kHz)
802.11b	12.4058	12.5217	99.07	81	0	0.01
802.11g	2.0899	2.2058	94.75	478	0.23	0.50
802.11nHT20	1.9507	2.0319	96.00	513	0.18	1.00
802.11nHT40	0.9536	1.0579	90.14	1049	0.45	2.00

802.11b Middle Channel



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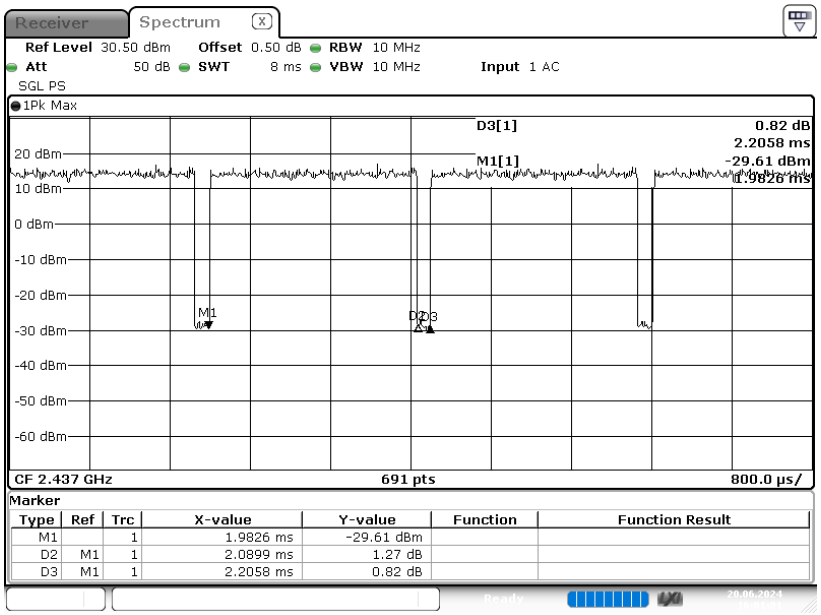
802.11g Middle Channel



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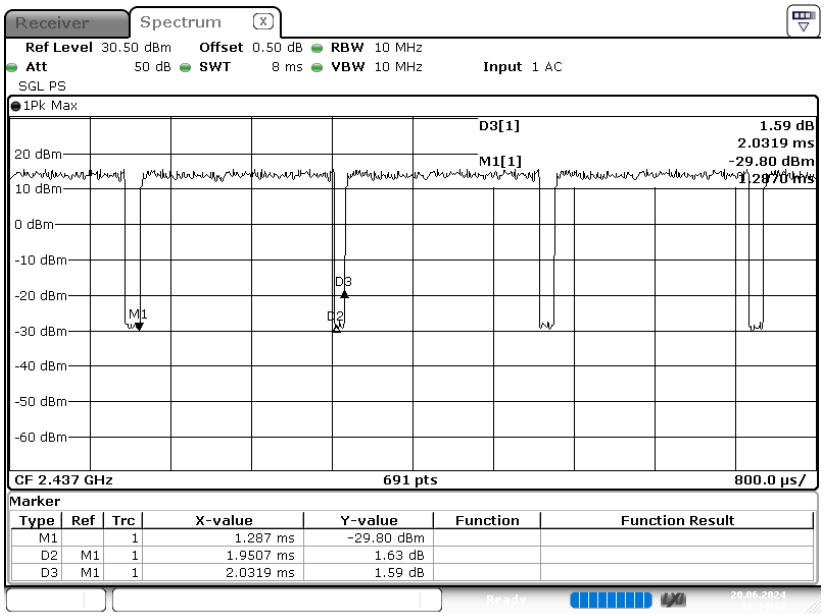
802.11nHT20 Middle Channel



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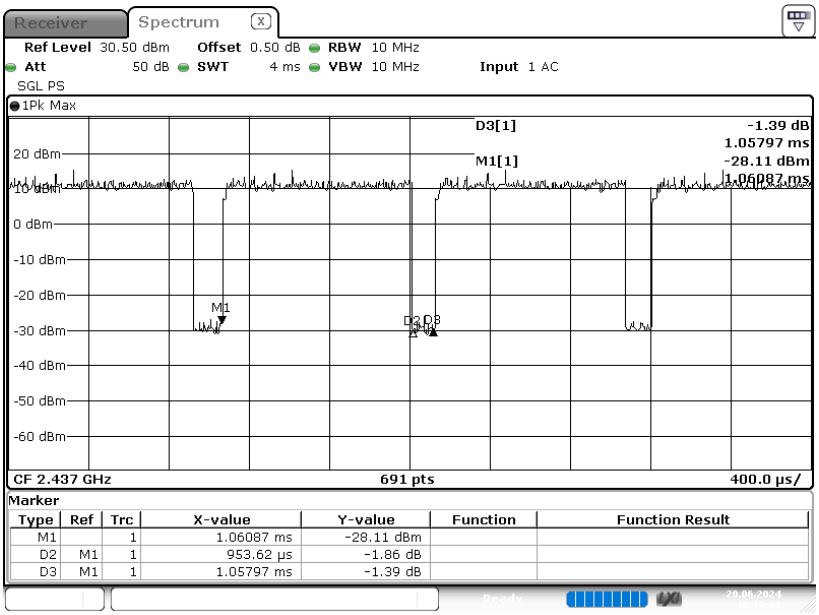
802.11nHT40 Middle Channel



Project No. :2407T78483E-RF Tester: Stein Peng

Date: 20.JUN.2024 16:17:01

Support Equipment List and Details

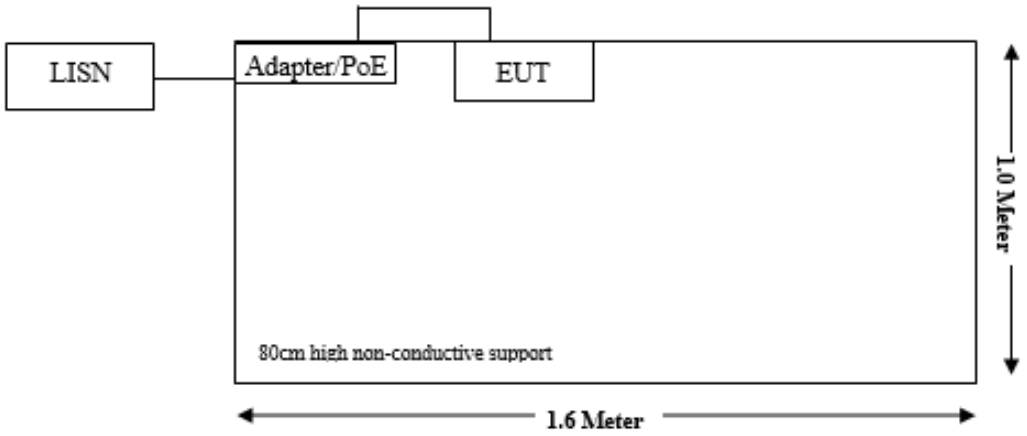
Manufacturer	Description	Model	Serial Number
SHENZHEN FUJIA APPLIANCE CO., LTD.	SWITCHING ADAPTOR	FJ-SW126K 1201000DU	N/A
RUIJIE NETWORKS CO.,LTD	Single-port PoE Power Adapter	RG-E-130(GE)	G1QT7S400747A

External I/O Cable

Cable Description	Length (m)	From Port	To
Power Cable	1.5	Adapter	EUT
Network cable	1	EUT	POE

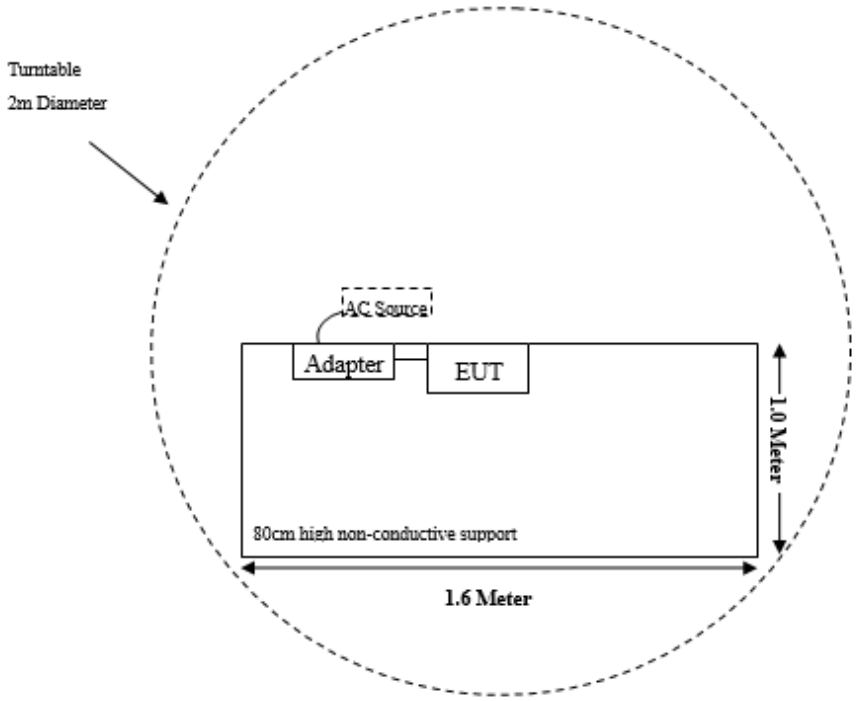
Block Diagram of Test Setup

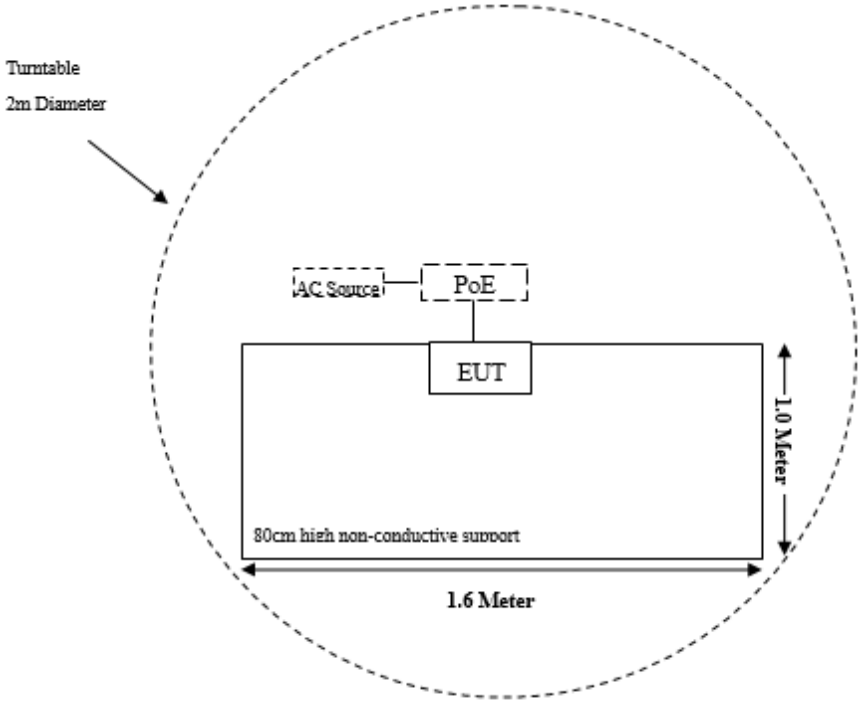
Conducted Emission:



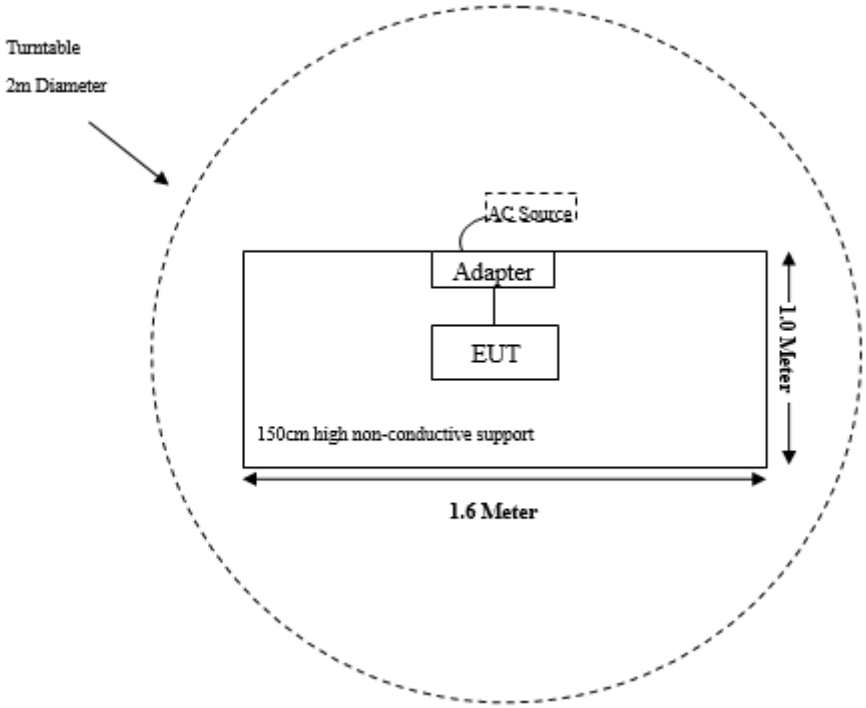
Radiated Emission:

Below 1GHz





Above 1GHz


Turntable
2m Diameter
AC Source
Adapter
EUT
1.0 Meter
150cm high non-conductive support
1.6 Meter

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance
§15.247(b)(3)	Maximum Conducted Output Power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

TEST EQUIPMENT LIST

Test Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions					
EMI Test Receiver	Rohde & Schwarz	ESR	103105	2024/03/29	2025/03/28
LISN	Rohde & Schwarz	ENV216	100129	2024/03/29	2025/03/28
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	0357.8810.54	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC001	2024/03/29	2025/03/28
Test Software	Audix	E3	18621a	N/A	N/A
Radiated Emissions Below 1GHz					
EMI Test Receiver	Rohde & Schwarz	ESR	103103	2024/03/29	2025/03/28
Loop Antenna	Rohde & Schwarz	HFH2-Z2	830749/001	2023/07/27	2026/07/26
Antenna	Sunol Sciences	JB6	A122022-5	2023/07/27	2026/07/26
Amplifier	Sonoma	310B	120903	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC002	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH460B-N-2M	CC006	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH460B-N-12M	CC007	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	HFH2-CC	335.3609	2024/03/29	2025/03/28
Test Software	Audix	E3	18621a	N/A	N/A
Radiated Emissions Above 1 GHz					
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102051	2024/03/29	2025/03/28
Filter Switch Unit	Decentest	DT7220FSU	DS79904	2024/02/23	2025/02/22
Multiplex Switch Test Control Set	Decentest	DT7220SCU	DS79901	2024/02/23	2025/02/22
Double Ridge Guide Horn Antenna	A.H.Systems	SAS-571	1980	2023/07/28	2026/07/27
Preamplifier	A.H.Systems	PAM-0118P	489	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH800A-N-6M	CC003	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH800A-N-1M	CC005	2024/03/29	2025/03/28
Horn Antenna	EMCO	3116	9407-2232	2023/07/31	2026/07/30
Preamplifier	A.H.Systems	PAM-1840	200	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH360A-2.92-3M	CC008	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH360A-2.92-1M	CC009	2024/03/29	2025/03/28
Test Software	Audix	E3	18621a	N/A	N/A
RF Conducted Test					
EMI Test Receiver	Rohde & Schwarz	ESR	103103	2024/03/29	2025/03/28
Spectrum Analyzer	Rohde & Schwarz	FSU	100405	2024/03/29	2025/03/28
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102051	2024/03/29	2025/03/28
Coaxial Cable	N/A	N/A	N/A	Each time	N/A
Power Sensor	HP	8481A	PS20240325	2024/03/29	2025/03/28

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Xiamen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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 provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

a. Antenna must be permanently attached to the unit.
b. Antenna must use a unique type of connector to attach to the EUT.
c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has one PCB antenna arrangement for WIFI, which was permanently attached and the antenna gain is 0.07 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

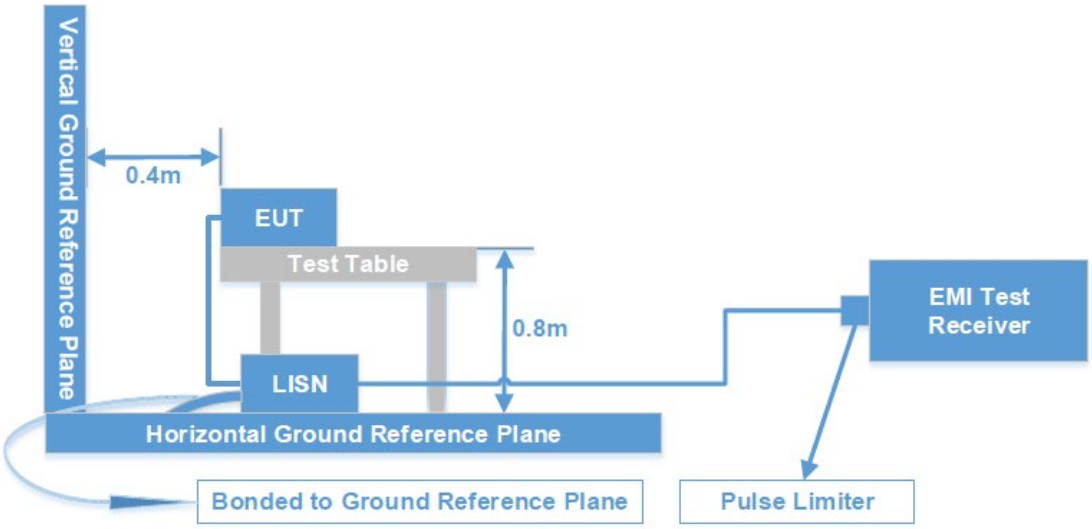
Result: Compliance

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

EUT Setup



The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	VBW	Detector
150 kHz – 30 MHz	9 kHz	30 kHz	QP/AV

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Level &Margin Calculation

The Level is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation from the Meter Reading. The basic equation is as follows:

Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
Level (dBμV) = Reading (dBμV) + Factor (dB)

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin (dB) = Limit (dBμV) – Level (dBμV)

Test Data

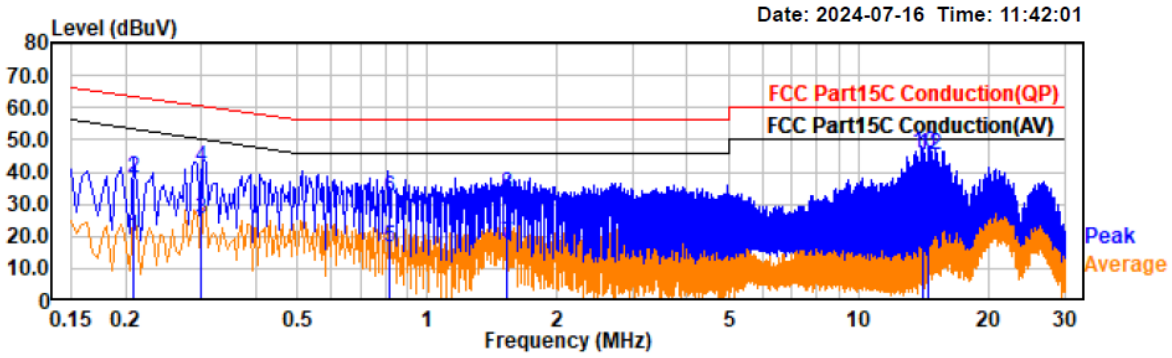
Temperature:	24.8℃~25.8℃
Relative Humidity:	57 %~59 %
ATM Pressure:	100.1kPa~101kPa
Test Date:	2024-07-16~2024-08-29
Test Engineer:	Ash Lin

EUT operation mode: Transmitting in Wifi 802.11b low channel (worst case)

For adapter power supply:

Project No.: 2407T78483E-RF
Test Mode: WiFi 11b 2412
EUT Model: VS125-P

Temp/Humi: 25.8℃/59%
Tested by: Ash Lin
Power Source: AC120V/60Hz

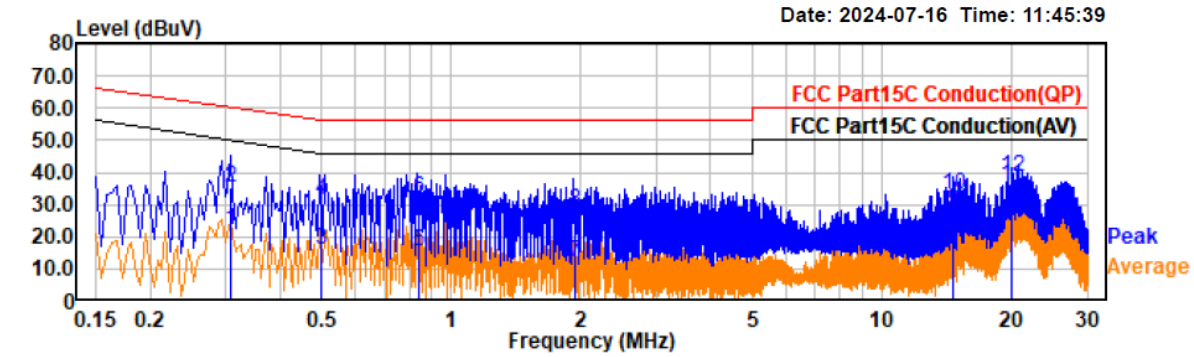


Trace: 1

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.21	0.23	19.52	19.75	53.24	33.49	Line	Average
0.21	18.63	19.52	38.15	63.24	25.09	Line	QP
0.30	5.61	19.56	25.17	50.24	25.07	Line	Average
0.30	21.58	19.56	41.14	60.24	19.10	Line	QP
0.81	-3.19	19.61	16.42	46.00	29.58	Line	Average
0.81	12.31	19.61	31.92	56.00	24.08	Line	QP
1.54	-2.24	19.65	17.41	46.00	28.59	Line	Average
1.54	13.59	19.65	33.24	56.00	22.76	Line	QP
14.08	13.09	19.97	33.06	50.00	16.94	Line	Average
14.08	25.88	19.97	45.85	60.00	14.15	Line	QP
14.48	12.67	19.97	32.64	50.00	17.36	Line	Average
14.48	25.16	19.97	45.13	60.00	14.87	Line	QP

Project No.: 2407T78483E-RF
Test Mode: WiFi 11b 2412
EUT Model: VS125-P

Temp/Humi: 25.8℃/59%
Tested by: Ash Lin
Power Source: AC120V/60Hz



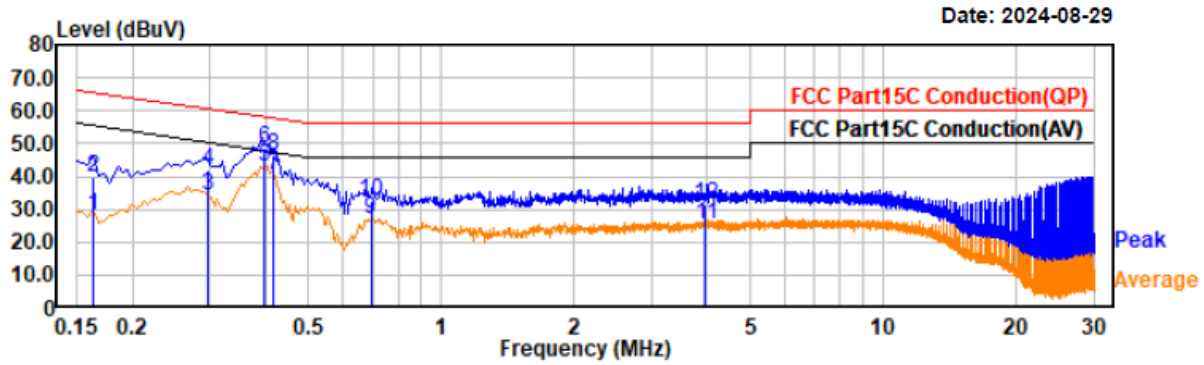
Trace: 1

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.31	2.37	19.56	21.93	50.02	28.09	Neutral	Average
0.31	15.68	19.56	35.24	60.02	24.78	Neutral	QP
0.50	-3.42	19.63	16.21	46.00	29.79	Neutral	Average
0.50	11.62	19.63	31.25	56.00	24.75	Neutral	QP
0.84	-4.27	19.61	15.34	46.00	30.66	Neutral	Average
0.84	12.59	19.61	32.20	56.00	23.80	Neutral	QP
1.94	-7.57	19.69	12.12	46.00	33.88	Neutral	Average
1.94	8.39	19.69	28.08	56.00	27.92	Neutral	QP
14.60	7.96	19.95	27.91	50.00	22.09	Neutral	Average
14.60	13.12	19.95	33.07	60.00	26.93	Neutral	QP
20.00	15.98	19.87	35.85	50.00	14.15	Neutral	Average
20.00	18.92	19.87	38.79	60.00	21.21	Neutral	QP

For PoE power supply:

Project No.: 2407T78483E-RF
Test Mode: WiFi 11b 2412
EUT Model: VS125-P

Temp/Humi/ATM: 24.8℃/57%/100.1kPa
Tested by: Ash Lin
Power Source: DC 48V from PoE

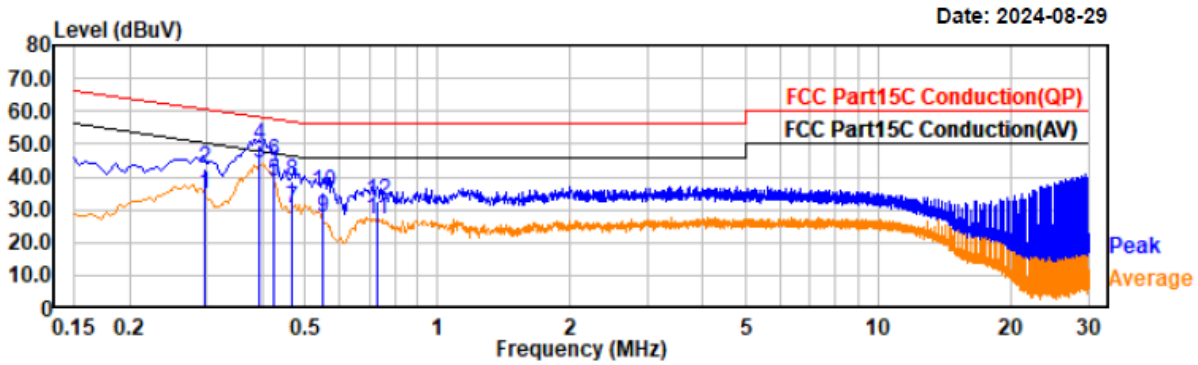


Trace: 1

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.16	6.91	21.11	28.02	55.33	27.31	Line	Average
0.16	18.77	21.11	39.88	65.33	25.45	Line	QP
0.30	13.42	20.85	34.27	50.35	16.08	Line	Average
0.30	21.03	20.85	41.88	60.35	18.47	Line	QP
0.40	22.53	20.54	43.07	47.93	4.86	Line	Average
0.40	28.18	20.54	48.72	57.93	9.21	Line	QP
0.42	19.92	20.49	40.41	47.50	7.09	Line	Average
0.42	25.70	20.49	46.19	57.50	11.31	Line	QP
0.69	6.20	20.60	26.80	46.00	19.20	Line	Average
0.69	11.91	20.60	32.51	56.00	23.49	Line	QP
3.95	4.36	20.96	25.32	46.00	20.68	Line	Average
3.95	10.40	20.96	31.36	56.00	24.64	Line	QP

Project No.: 2407T78483E-RF
Test Mode: WiFi 11b 2412
EUT Model: VS125-P

Temp/Humi/ATM: 24.8℃/57%/100.1kPa
Tested by: Ash Lin
Power Source: DC 48V from PoE



Trace: 1

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.30	14.14	20.74	34.88	50.33	15.45	Neutral	Average
0.30	21.96	20.74	42.70	60.33	17.63	Neutral	QP
0.40	23.45	20.50	43.95	47.96	4.01	Neutral	Average
0.40	29.27	20.50	49.77	57.96	8.19	Neutral	QP
0.43	18.08	20.43	38.51	47.34	8.83	Neutral	Average
0.43	24.13	20.43	44.56	57.34	12.78	Neutral	QP
0.47	9.86	20.34	30.20	46.52	16.32	Neutral	Average
0.47	18.08	20.34	38.42	56.52	18.10	Neutral	QP
0.55	7.28	20.32	27.60	46.00	18.40	Neutral	Average
0.55	15.26	20.32	35.58	56.00	20.42	Neutral	QP
0.73	6.54	20.44	26.98	46.00	19.02	Neutral	Average
0.73	12.27	20.44	32.71	56.00	23.29	Neutral	QP

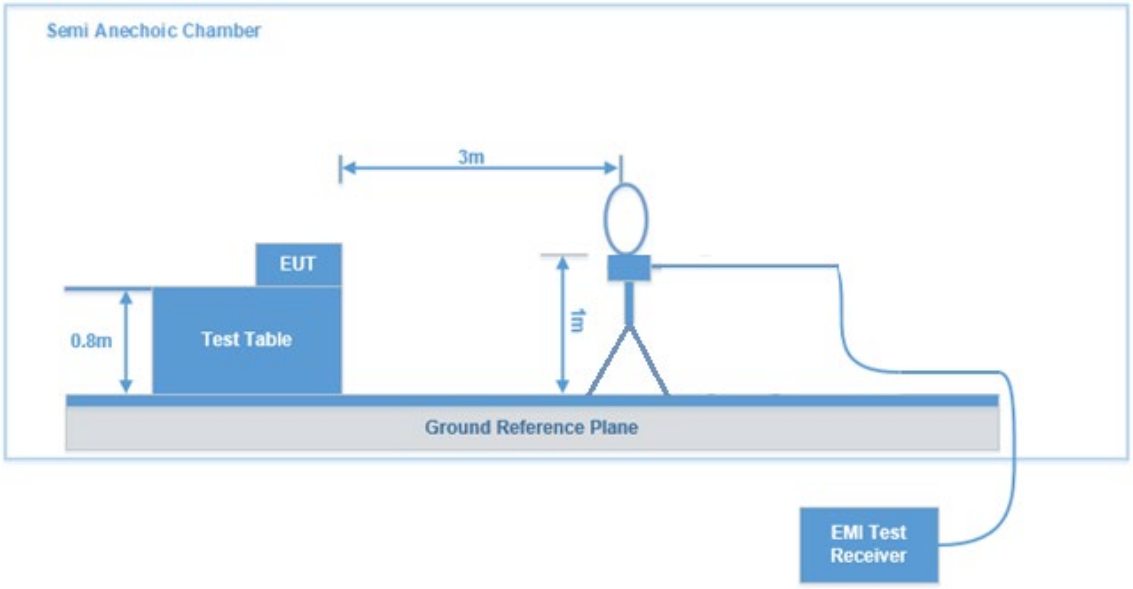
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

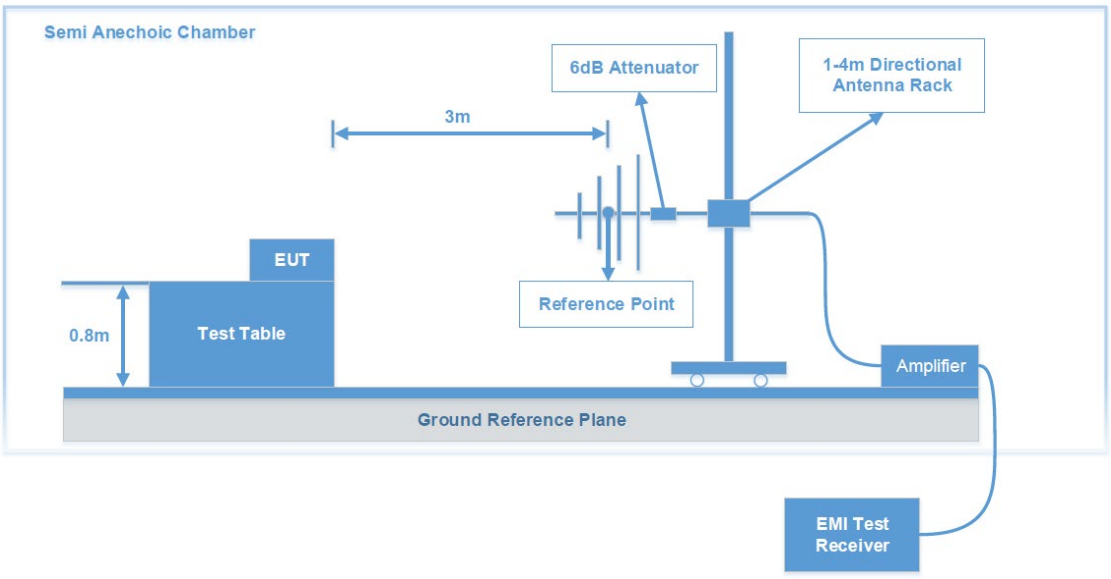
FCC §15.247 (d); §15.209; §15.205;

EUT Setup

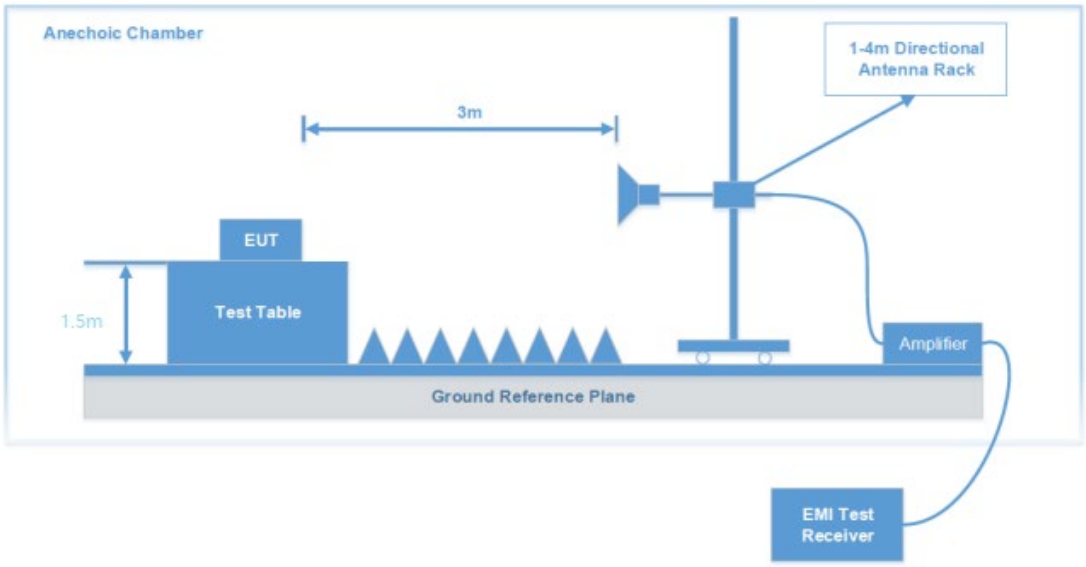
9 kHz-30MHz:



30MHz -1 GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Below 1GHz:

Frequency Range	RBW	VBW	IF B/W	Measurement
9 kHz – 150 kHz	200Hz	1 kHz	/	PK
	/	/	200Hz	QP
150 kHz – 30 MHz	10 kHz	30 kHz	/	PK
	/	/	9kHz	QP
30 MHz – 1000 MHz	100 kHz	300 kHz	/	PK
	/	/	120kHz	QP

Above 1GHz:

Duty Cycle	RBW	VBW	Measurement
Any	1MHz	3MHz	PK
＞98%	1MHz	10Hz	AV
＜98%	1MHz	≥1/T	AV

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

For each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable. The report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground parallel) unless the margin is greater than 20 dB, then the following statement shall be made: "all emissions were greater than 20 dB below the limit."

Level &Margin Calculation

The Level is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Factor (dB/m) =Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)
Level (dBμV/m) = Reading (dBμV) + Factor (dB/m)

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin (dB) = Limit (dBμV/m) –Level (dBμV/m)

Test Data

Please refer to the below table and plots.
After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

Frequency Range:	Below 1 GHz	Above 1 GHz
Temperature:	23.1℃	23.1℃
Relative Humidity:	55 %	55%
ATM Pressure:	101kPa	101kPa
Test Date:	2024-07-16	2024-07-13~2024-07-19
Test Engineer:	Ash Lin	Ash Lin

1) 9 kHz~30MHz

EUT operation mode: Transmitting in Wifi 802.11b low channel (worst case)

Pre-scan in parallel, ground-parallel and perpendicular of orientation of loop antenna, the amplitude of spurious emissions attenuated is more than 20 dB below the permissible value, which is not required to be report.

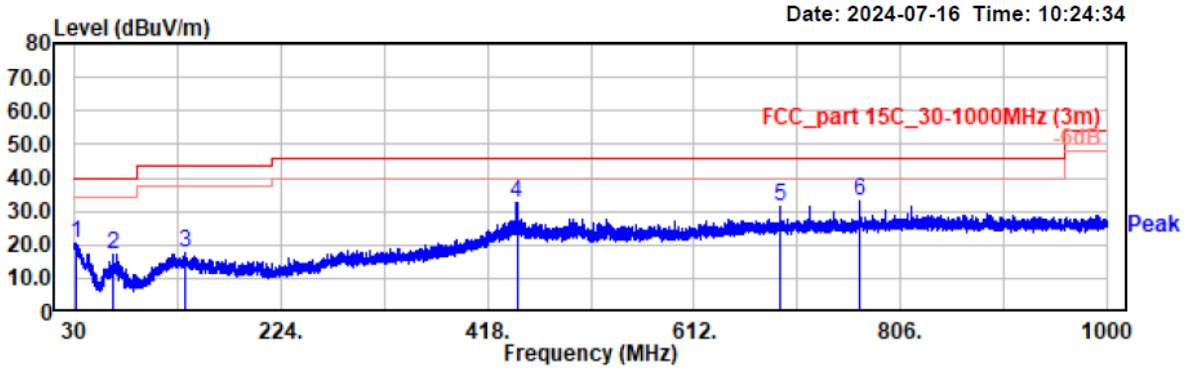
2) 30 MHz-1GHz

EUT operation mode: Transmitting in Wifi 802.11b low channel Z-axis of orientation (worst case)

For adapter power supply:

Project No.: 2407T78483E-RF
Test Mode: WiFi 11b 2412
EUT Model: VS125-P
Test distance: 3m

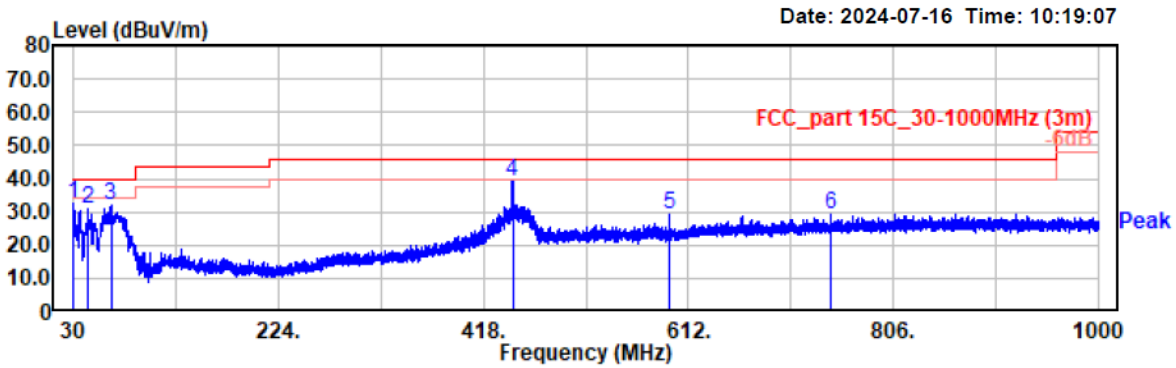
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
30.87	26.22	-5.82	20.40	40.00	19.60	Horizontal	Peak
66.38	34.40	-17.25	17.15	40.00	22.85	Horizontal	Peak
133.98	28.03	-10.25	17.78	43.50	25.72	Horizontal	Peak
445.55	37.47	-4.94	32.53	46.00	13.47	Horizontal	Peak
693.09	32.03	-0.44	31.59	46.00	14.41	Horizontal	Peak
768.07	32.50	0.78	33.28	46.00	12.72	Horizontal	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11b 2412
EUT Model: VS125-P
Test distance: 3m

Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz

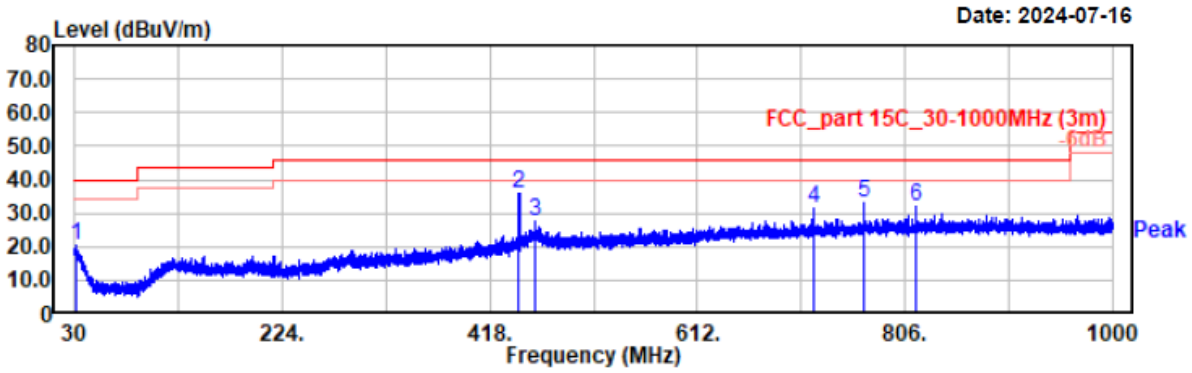


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
30.39	38.52	-5.70	32.82	40.00	7.18	Vertical	Peak
43.00	44.58	-13.90	30.68	40.00	9.32	Vertical	Peak
65.31	49.43	-17.28	32.15	40.00	7.85	Vertical	Peak
445.55	43.91	-4.94	38.97	46.00	7.03	Vertical	Peak
594.06	31.61	-2.44	29.17	46.00	16.83	Vertical	Peak
746.73	28.78	0.47	29.25	46.00	16.75	Vertical	Peak

For PoE power supply:

Project No.: 2407T78483E-RF
Test Mode: WiFi 11b 2412
EUT Model: VS125-P
Test distance: 3m

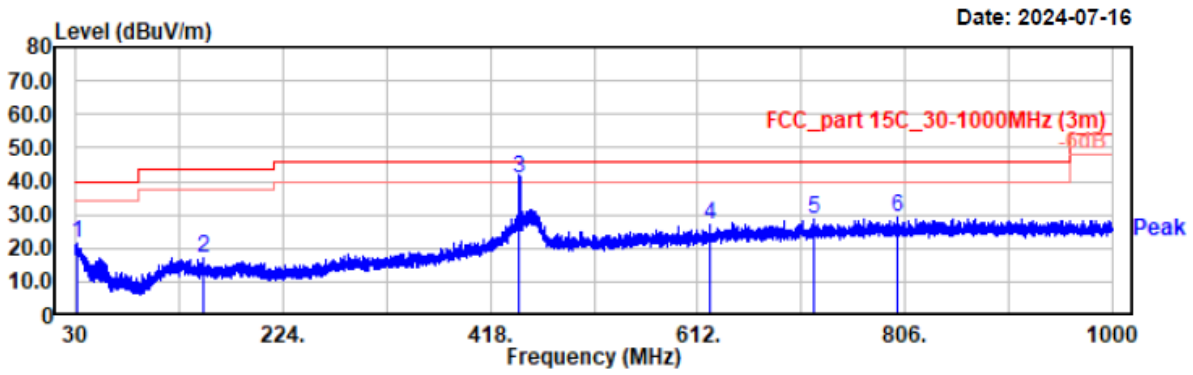
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: DC 48V from PoE



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
31.26	26.14	-6.00	20.14	40.00	19.86	Horizontal	Peak
445.45	40.80	-4.94	35.86	46.00	10.14	Horizontal	Peak
460.29	32.39	-4.64	27.75	46.00	18.25	Horizontal	Peak
720.06	31.46	0.05	31.51	46.00	14.49	Horizontal	Peak
768.07	32.36	0.78	33.14	46.00	12.86	Horizontal	Peak
816.09	30.52	1.45	31.97	46.00	14.03	Horizontal	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11b 2412
EUT Model: VS125-P
Test distance: 3m

Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: DC 48V from PoE



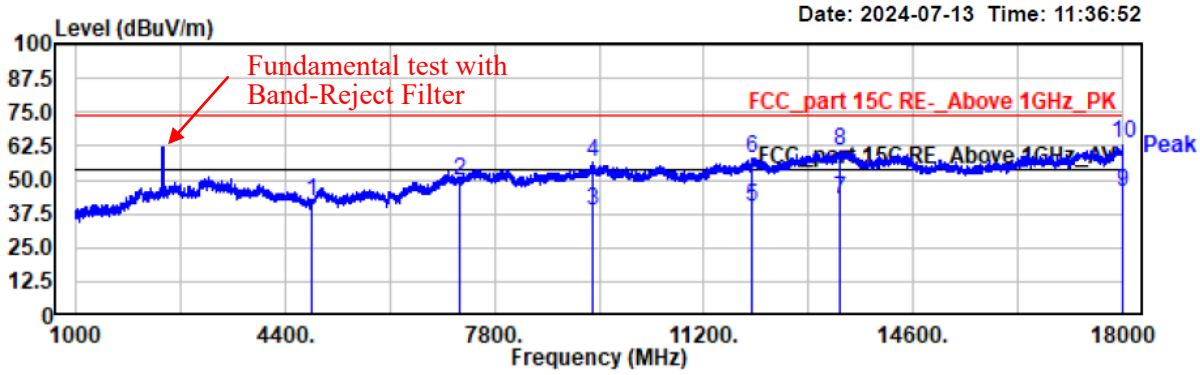
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
31.36	27.60	-6.04	21.56	40.00	18.44	Vertical	Peak
149.12	28.32	-11.24	17.08	43.50	26.42	Vertical	Peak
445.50	45.94	-4.94	41.00	46.00	5.00	Vertical	QP
624.03	28.69	-1.44	27.25	46.00	18.75	Vertical	Peak
720.06	28.67	0.05	28.72	46.00	17.28	Vertical	Peak
798.34	27.77	1.24	29.01	46.00	16.99	Vertical	Peak

3) 1GHz~18GHz

EUT operation mode: Transmitting in Wifi 802.11b low channel

Project No.: 2407T78483E-RF
Test Mode: WiFi 11b 2412
EUT Model: VS125-P
Test distance: 3m

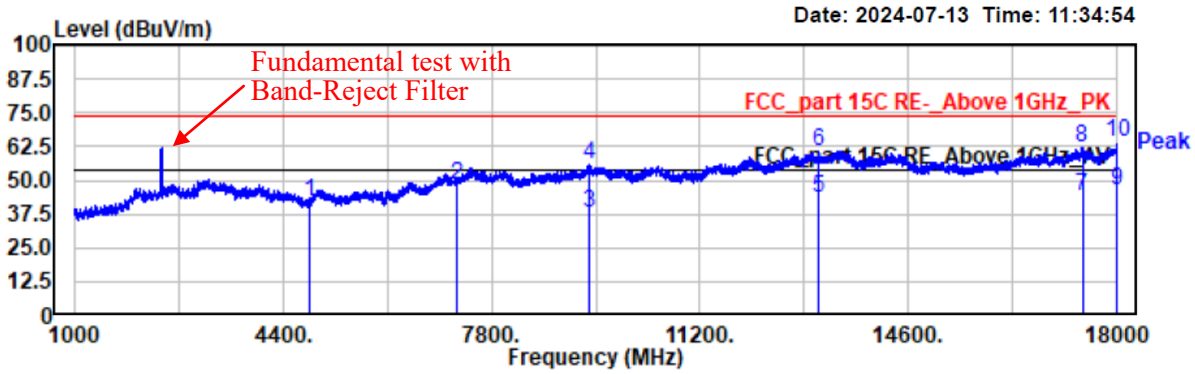
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4823.30	38.53	3.25	41.78	74.00	32.22	horizontal	Peak
7236.00	38.12	11.70	49.82	74.00	24.18	horizontal	Peak
9403.10	23.49	14.93	38.42	54.00	15.58	horizontal	Average
9403.10	41.54	14.93	56.47	74.00	17.53	horizontal	Peak
11985.40	23.09	17.06	40.15	54.00	13.85	horizontal	Average
11985.40	41.01	17.06	58.07	74.00	15.93	horizontal	Peak
13404.90	23.17	19.46	42.63	54.00	11.37	horizontal	Average
13404.90	41.23	19.46	60.69	74.00	13.31	horizontal	Peak
17998.30	24.56	21.15	45.71	54.00	8.29	horizontal	Average
17998.30	42.26	21.15	63.41	74.00	10.59	horizontal	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11b 2412
EUT Model: VS125-P
Test distance: 3m

Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz

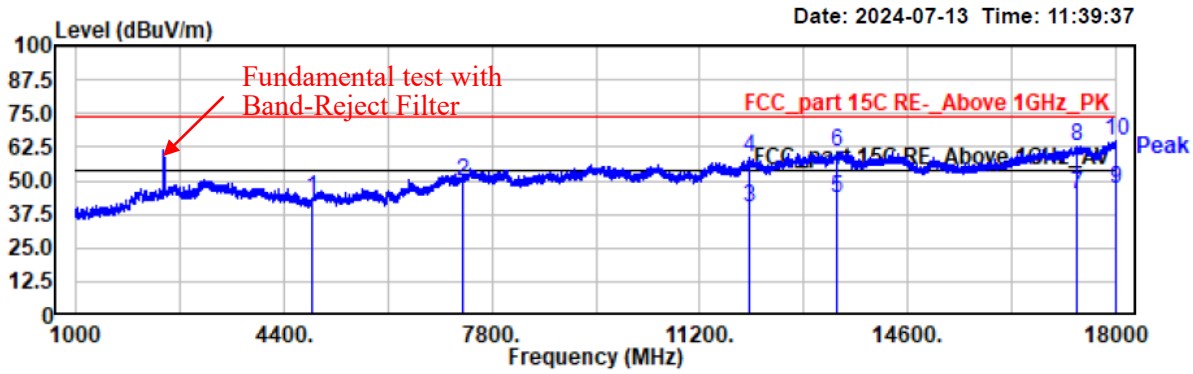


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4823.30	38.93	3.25	42.18	74.00	31.82	vertical	Peak
7236.00	36.76	11.70	48.46	74.00	25.54	vertical	Peak
9401.40	22.69	14.95	37.64	54.00	16.36	vertical	Average
9401.40	40.67	14.95	55.62	74.00	18.38	vertical	Peak
13151.60	23.97	19.34	43.31	54.00	10.69	vertical	Average
13151.60	41.39	19.34	60.73	74.00	13.27	vertical	Peak
17442.40	24.62	19.51	44.13	54.00	9.87	vertical	Average
17442.40	42.56	19.51	62.07	74.00	11.93	vertical	Peak
18000.00	25.10	21.16	46.26	54.00	7.74	vertical	Average
18000.00	43.11	21.16	64.27	74.00	9.73	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11b middle channel

Project No.: 2407T78483E-RF
Test Mode: WiFi 11b 2437
EUT Model: VS125-P
Test distance: 3m

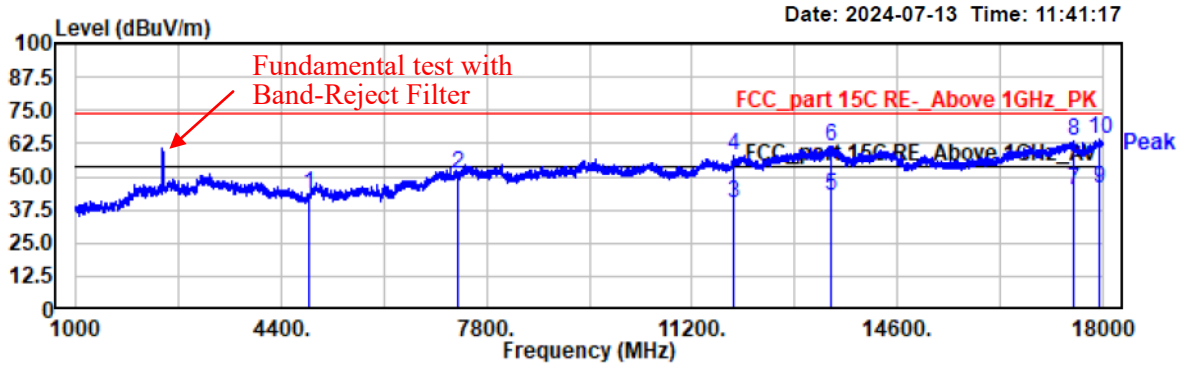
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4874.30	39.30	3.96	43.26	74.00	30.74	horizontal	Peak
7311.00	37.57	12.30	49.87	74.00	24.13	horizontal	Peak
12012.60	23.13	17.11	40.24	54.00	13.76	horizontal	Average
12012.60	41.82	17.11	58.93	74.00	15.07	horizontal	Peak
13452.50	23.66	19.48	43.14	54.00	10.86	horizontal	Average
13452.50	41.46	19.48	60.94	74.00	13.06	horizontal	Peak
17371.00	25.22	19.45	44.67	54.00	9.33	horizontal	Average
17371.00	43.55	19.45	63.00	74.00	11.00	horizontal	Peak
17996.60	25.61	21.15	46.76	54.00	7.24	horizontal	Average
17996.60	43.46	21.15	64.61	74.00	9.39	horizontal	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11b 2437
EUT Model: VS125-P
Test distance: 3m

Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz

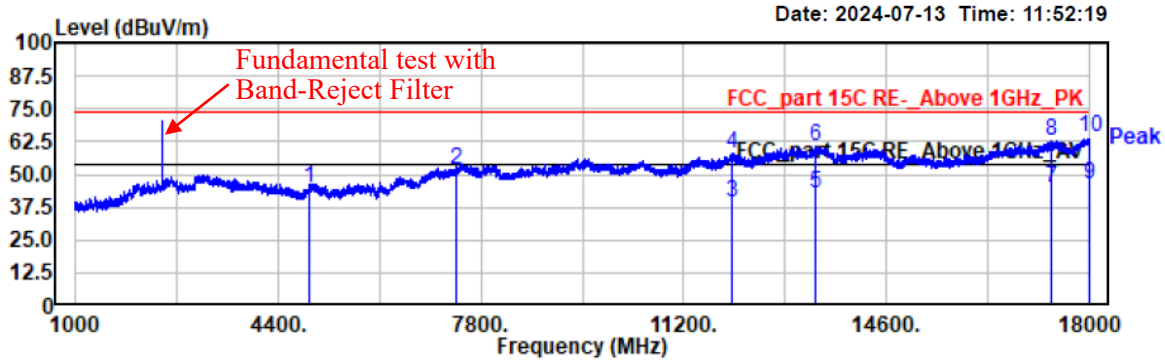


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4874.30	39.69	3.96	43.65	74.00	30.35	vertical	Peak
7311.00	38.87	12.30	51.17	74.00	22.83	vertical	Peak
11885.10	23.56	16.64	40.20	54.00	13.80	vertical	Average
11885.10	41.16	16.64	57.80	74.00	16.20	vertical	Peak
13500.10	23.02	19.48	42.50	54.00	11.50	vertical	Average
13500.10	41.91	19.48	61.39	74.00	12.61	vertical	Peak
17520.60	25.59	19.32	44.91	54.00	9.09	vertical	Average
17520.60	43.95	19.32	63.27	74.00	10.73	vertical	Peak
17935.40	24.62	21.04	45.66	54.00	8.34	vertical	Average
17935.40	42.96	21.04	64.00	74.00	10.00	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11b high channel

Project No.: 2407T78483E-RF
Test Mode: WiFi 11b 2462
EUT Model: VS125-P
Test distance: 3m

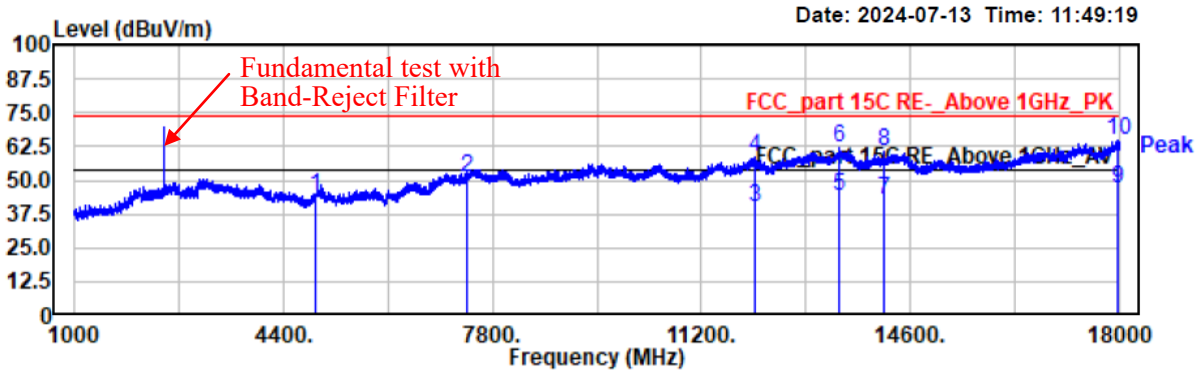
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4923.60	40.23	4.77	45.00	74.00	29.00	horizontal	Peak
7386.00	39.10	12.51	51.61	74.00	22.39	horizontal	Peak
12022.80	22.18	17.11	39.29	54.00	14.71	horizontal	Average
12022.80	40.81	17.11	57.92	74.00	16.08	horizontal	Peak
13413.40	23.33	19.47	42.80	54.00	11.20	horizontal	Average
13413.40	41.03	19.47	60.50	74.00	13.50	horizontal	Peak
17357.40	25.22	19.43	44.65	54.00	9.35	horizontal	Average
17357.40	43.40	19.43	62.83	74.00	11.17	horizontal	Peak
18000.00	25.24	21.16	46.40	54.00	7.60	horizontal	Average
18000.00	43.12	21.16	64.28	74.00	9.72	horizontal	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11b 2462
EUT Model: VS125-P
Test distance: 3m

Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz

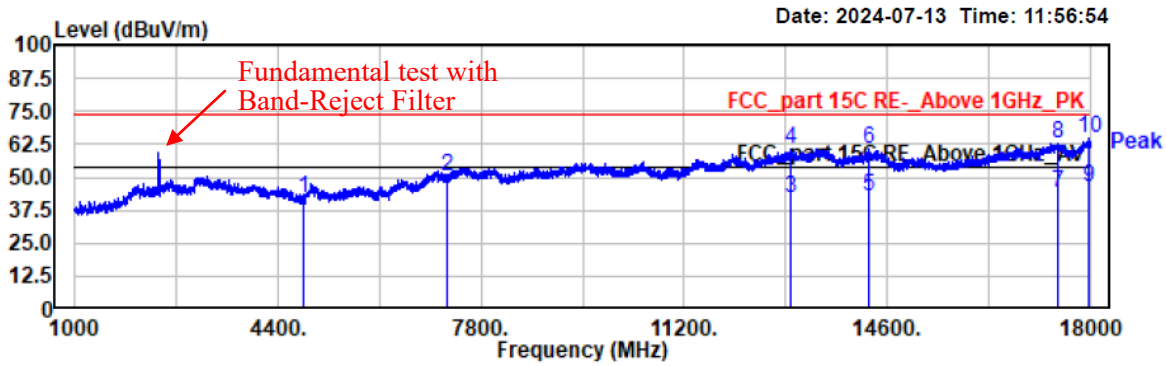


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4923.60	39.17	4.77	43.94	74.00	30.06	vertical	Peak
7386.00	38.83	12.51	51.34	74.00	22.66	vertical	Peak
12067.00	23.12	17.04	40.16	54.00	13.84	vertical	Average
12067.00	41.52	17.04	58.56	74.00	15.44	vertical	Peak
13450.80	24.62	19.48	44.10	54.00	9.90	vertical	Average
13450.80	42.26	19.48	61.74	74.00	12.26	vertical	Peak
14164.80	24.72	17.78	42.50	54.00	11.50	vertical	Average
14164.80	42.98	17.78	60.76	74.00	13.24	vertical	Peak
17986.40	25.63	21.12	46.75	54.00	7.25	vertical	Average
17986.40	43.67	21.12	64.79	74.00	9.21	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11g low channel

Project No.: 2407T78483E-RF
Test Mode: WiFi 11g 2412
EUT Model: VS125-P
Test distance: 3m

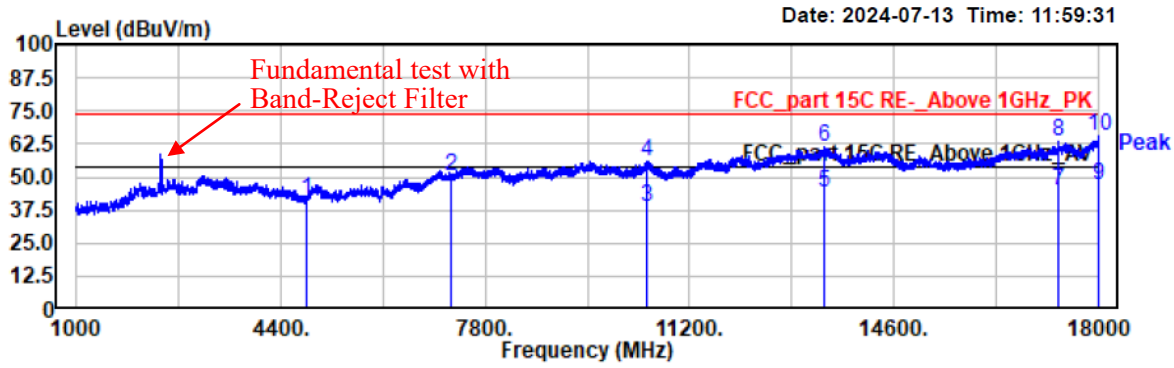
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4823.30	38.80	3.25	42.05	74.00	31.95	horizontal	Peak
7236.00	38.42	11.70	50.12	74.00	23.88	horizontal	Peak
12996.90	22.54	19.69	42.23	54.00	11.77	horizontal	Average
12996.90	40.90	19.69	60.59	74.00	13.41	horizontal	Peak
14294.00	24.01	18.60	42.61	54.00	11.39	horizontal	Average
14294.00	42.31	18.60	60.91	74.00	13.09	horizontal	Peak
17450.90	24.93	19.51	44.44	54.00	9.56	horizontal	Average
17450.90	43.49	19.51	63.00	74.00	11.00	horizontal	Peak
17977.90	24.93	21.12	46.05	54.00	7.95	horizontal	Average
17977.90	43.60	21.12	64.72	74.00	9.28	horizontal	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11g 2412
EUT Model: VS125-P
Test distance: 3m

Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz

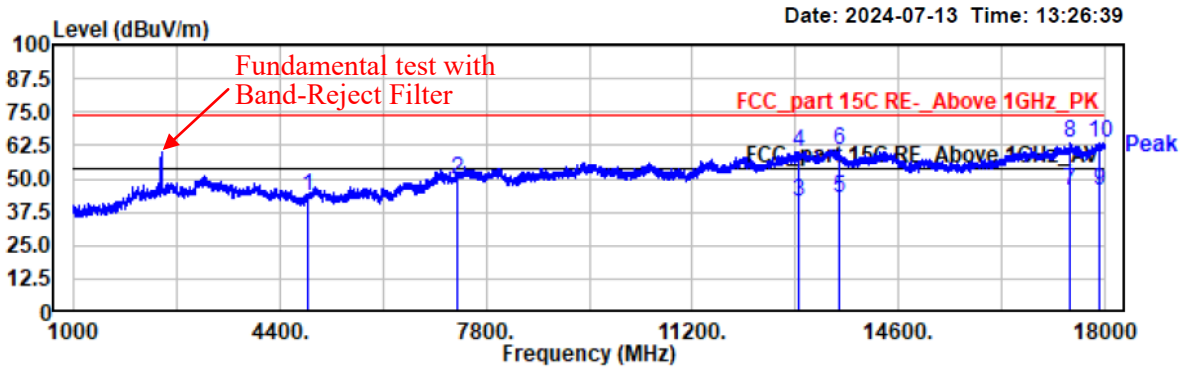


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4823.30	38.40	3.25	41.65	74.00	32.35	vertical	Peak
7236.00	38.52	11.70	50.22	74.00	23.78	vertical	Peak
10482.60	23.86	14.69	38.55	54.00	15.45	vertical	Average
10482.60	41.38	14.69	56.07	74.00	17.93	vertical	Peak
13427.00	24.37	19.48	43.85	54.00	10.15	vertical	Average
13427.00	42.23	19.48	61.71	74.00	12.29	vertical	Peak
17338.70	25.23	19.41	44.64	54.00	9.36	vertical	Average
17338.70	43.82	19.41	63.23	74.00	10.77	vertical	Peak
17996.60	25.73	21.15	46.88	54.00	7.12	vertical	Average
17996.60	44.03	21.15	65.18	74.00	8.82	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11g middle channel

Project No.: 2407T78483E-RF
Test Mode: WiFi 11g 2437
EUT Model: VS125-P
Test distance: 3m

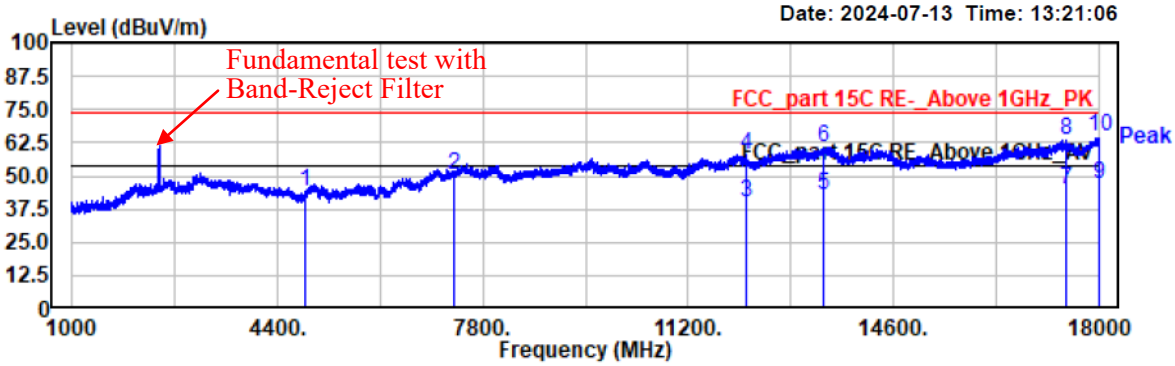
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4874.30	39.51	3.96	43.47	74.00	30.53	horizontal	Peak
7311.00	37.66	12.30	49.96	74.00	24.04	horizontal	Peak
12947.60	22.29	19.35	41.64	54.00	12.36	horizontal	Average
12947.60	40.83	19.35	60.18	74.00	13.82	horizontal	Peak
13617.40	24.03	18.81	42.84	54.00	11.16	horizontal	Average
13617.40	42.03	18.81	60.84	74.00	13.16	horizontal	Peak
17418.60	25.69	19.49	45.18	54.00	8.82	horizontal	Average
17418.60	43.68	19.49	63.17	74.00	10.83	horizontal	Peak
17918.40	24.43	21.01	45.44	54.00	8.56	horizontal	Average
17918.40	42.74	21.01	63.75	74.00	10.25	horizontal	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11g 2437
EUT Model: VS125-P
Test distance: 3m

Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz

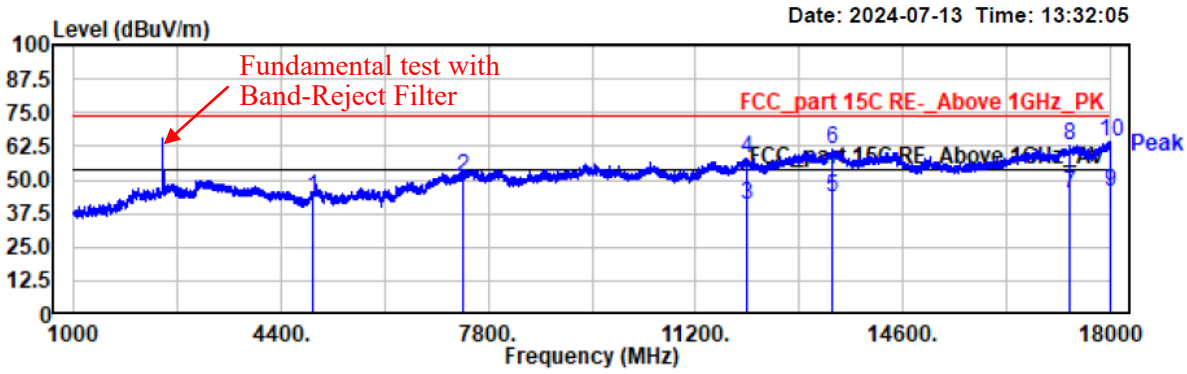


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4874.30	39.97	3.96	43.93	74.00	30.07	vertical	Peak
7311.00	38.19	12.30	50.49	74.00	23.51	vertical	Peak
12153.70	23.20	16.94	40.14	54.00	13.86	vertical	Average
12153.70	41.02	16.94	57.96	74.00	16.04	vertical	Peak
13454.20	23.27	19.47	42.74	54.00	11.26	vertical	Average
13454.20	41.53	19.47	61.00	74.00	13.00	vertical	Peak
17447.50	25.16	19.50	44.66	54.00	9.34	vertical	Average
17447.50	43.82	19.50	63.32	74.00	10.68	vertical	Peak
18000.00	25.41	21.16	46.57	54.00	7.43	vertical	Average
18000.00	43.74	21.16	64.90	74.00	9.10	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11g high channel

Project No.: 2407T78483E-RF
Test Mode: WiFi 11g 2462
EUT Model: VS125-P
Test distance: 3m

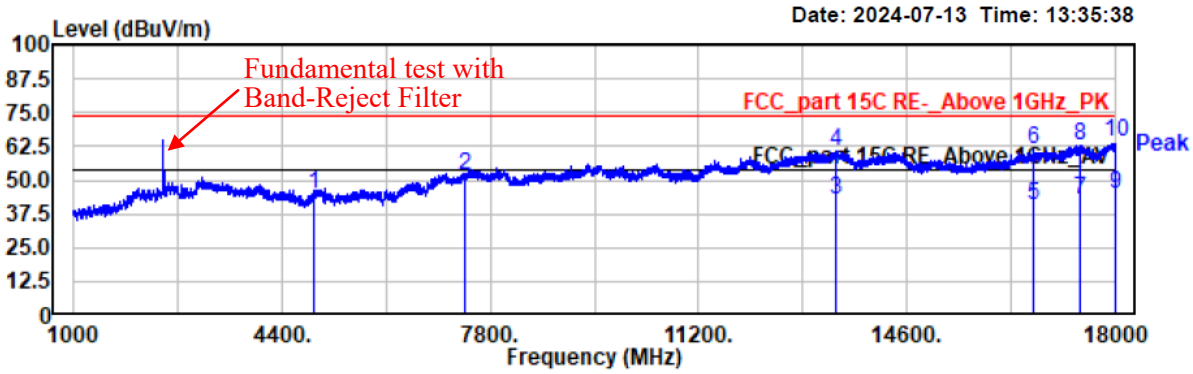
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4923.60	39.00	4.77	43.77	74.00	30.23	horizontal	Peak
7386.00	38.83	12.51	51.34	74.00	22.66	horizontal	Peak
12055.10	23.38	17.07	40.45	54.00	13.55	horizontal	Average
12055.10	41.03	17.07	58.10	74.00	15.90	horizontal	Peak
13428.70	23.82	19.47	43.29	54.00	10.71	horizontal	Average
13428.70	41.89	19.47	61.36	74.00	12.64	horizontal	Peak
17350.60	25.74	19.43	45.17	54.00	8.83	horizontal	Average
17350.60	43.67	19.43	63.10	74.00	10.90	horizontal	Peak
17998.30	24.51	21.15	45.66	54.00	8.34	horizontal	Average
17998.30	42.95	21.15	64.10	74.00	9.90	horizontal	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11g 2462
EUT Model: VS125-P
Test distance: 3m

Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz

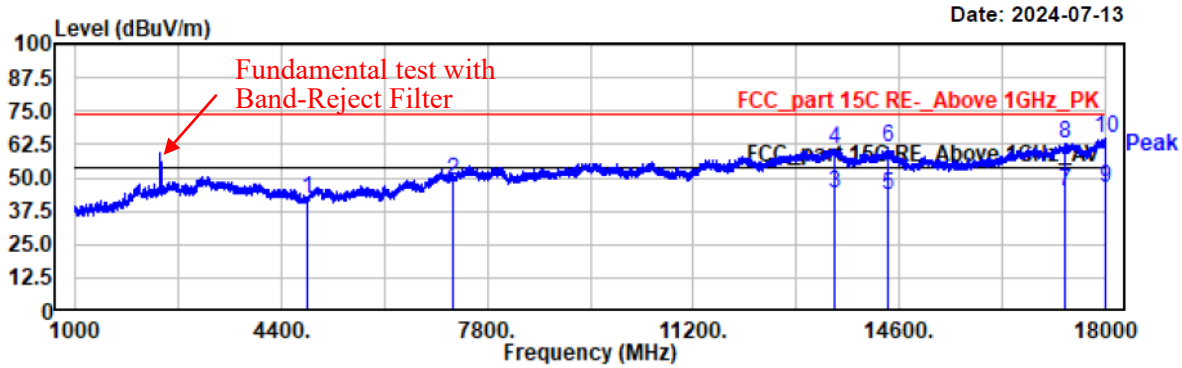


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4923.60	40.18	4.77	44.95	74.00	29.05	vertical	Peak
7386.00	39.07	12.51	51.58	74.00	22.42	vertical	Peak
13449.10	23.51	19.48	42.99	54.00	11.01	vertical	Average
13449.10	41.35	19.48	60.83	74.00	13.17	vertical	Peak
16665.50	23.33	17.33	40.66	54.00	13.34	vertical	Average
16665.50	44.24	17.33	61.57	74.00	12.43	vertical	Peak
17427.10	23.18	19.51	42.69	54.00	11.31	vertical	Average
17427.10	43.41	19.51	62.92	74.00	11.08	vertical	Peak
18000.00	23.82	21.16	44.98	54.00	9.02	vertical	Average
18000.00	42.68	21.16	63.84	74.00	10.16	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11n ht20 low channel

Project No.: 2407T78483E-RF
Test Mode: WiFi 11N20 2412
EUT Model: VS125-P

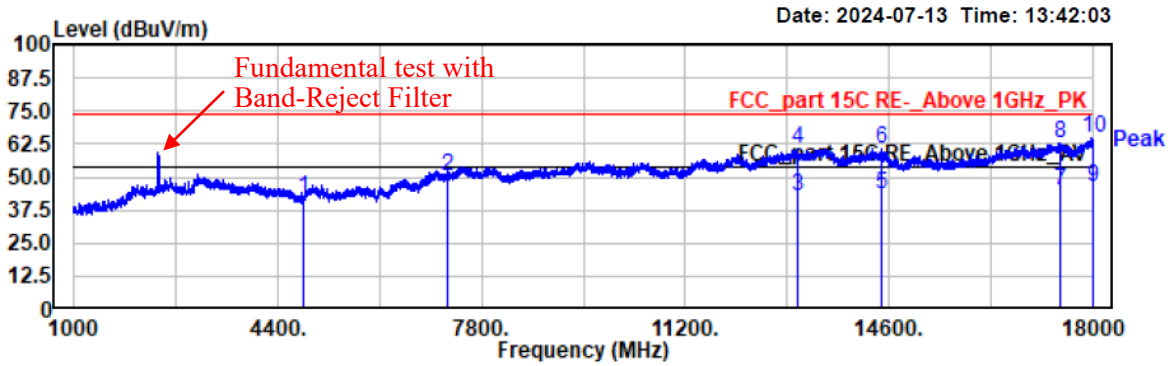
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
4823.30	38.72	3.25	41.97	74.00	32.03	horizontal	Peak
7236.00	37.45	11.70	49.15	74.00	24.85	horizontal	Peak
13535.80	24.94	19.30	44.24	54.00	9.76	horizontal	Average
13535.80	41.49	19.30	60.79	74.00	13.21	horizontal	Peak
14414.70	25.72	17.94	43.66	54.00	10.34	horizontal	Average
14414.70	43.17	17.94	61.11	74.00	12.89	horizontal	Peak
17330.20	25.42	19.40	44.82	54.00	9.18	horizontal	Average
17330.20	43.34	19.40	62.74	74.00	11.26	horizontal	Peak
17996.60	25.12	21.15	46.27	54.00	7.73	horizontal	Average
17996.60	43.82	21.15	64.97	74.00	9.03	horizontal	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11N20 2412
EUT Model: VS125-P
Test distance: 3m

Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz

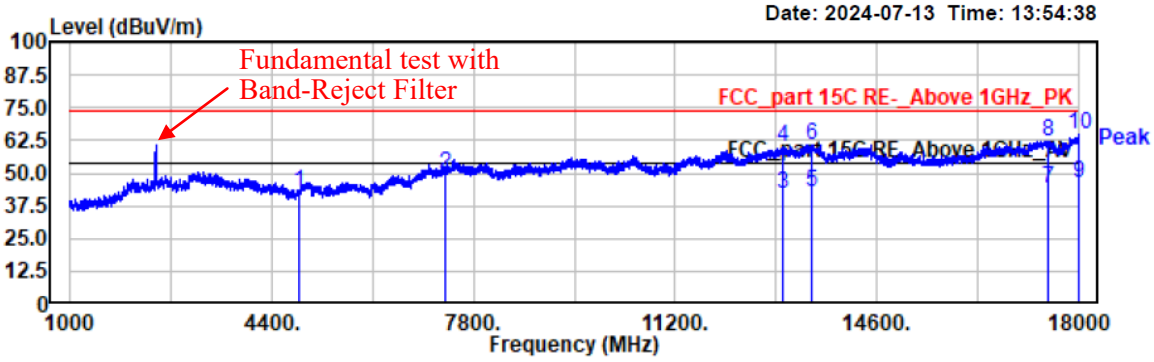


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4823.30	39.02	3.25	42.27	74.00	31.73	vertical	Peak
7236.00	38.58	11.70	50.28	74.00	23.72	vertical	Peak
13071.70	23.63	19.36	42.99	54.00	11.01	vertical	Average
13071.70	41.57	19.36	60.93	74.00	13.07	vertical	Peak
14472.50	25.36	17.83	43.19	54.00	10.81	vertical	Average
14472.50	43.14	17.83	60.97	74.00	13.03	vertical	Peak
17449.20	25.38	19.51	44.89	54.00	9.11	vertical	Average
17449.20	43.24	19.51	62.75	74.00	11.25	vertical	Peak
18000.00	25.33	21.16	46.49	54.00	7.51	vertical	Average
18000.00	43.53	21.16	64.69	74.00	9.31	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11n ht20 middle channel

Project No.: 2407T78483E-RF
Test Mode: WiFi 11N20 2437
EUT Model: VS125-P
Test distance: 3m

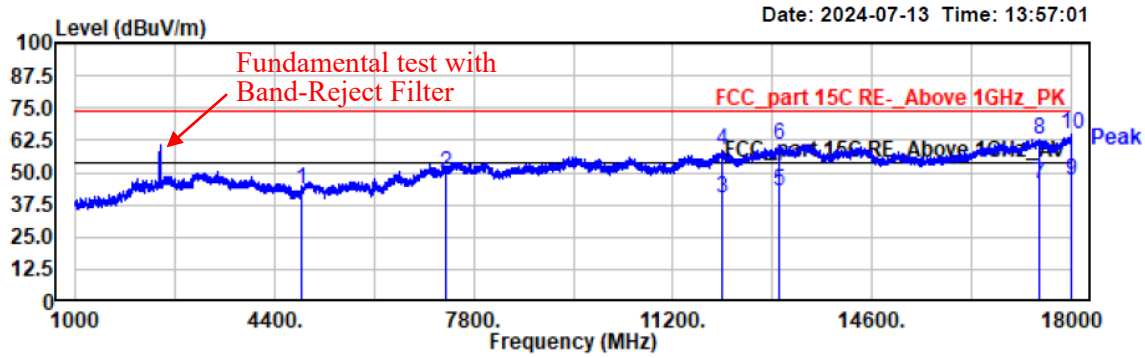
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4874.30	38.84	3.96	42.80	74.00	31.20	horizontal	Peak
7311.00	37.44	12.30	49.74	74.00	24.26	horizontal	Peak
13019.00	22.17	19.62	41.79	54.00	12.21	horizontal	Average
13019.00	40.22	19.62	59.84	74.00	14.16	horizontal	Peak
13510.30	23.39	19.43	42.82	54.00	11.18	horizontal	Average
13510.30	41.54	19.43	60.97	74.00	13.03	horizontal	Peak
17476.40	24.49	19.51	44.00	54.00	10.00	horizontal	Average
17476.40	42.75	19.51	62.26	74.00	11.74	horizontal	Peak
17998.30	25.05	21.15	46.20	54.00	7.80	horizontal	Average
17998.30	43.91	21.15	65.06	74.00	8.94	horizontal	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11N20 2437
EUT Model: VS125-P
Test distance: 3m

Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz

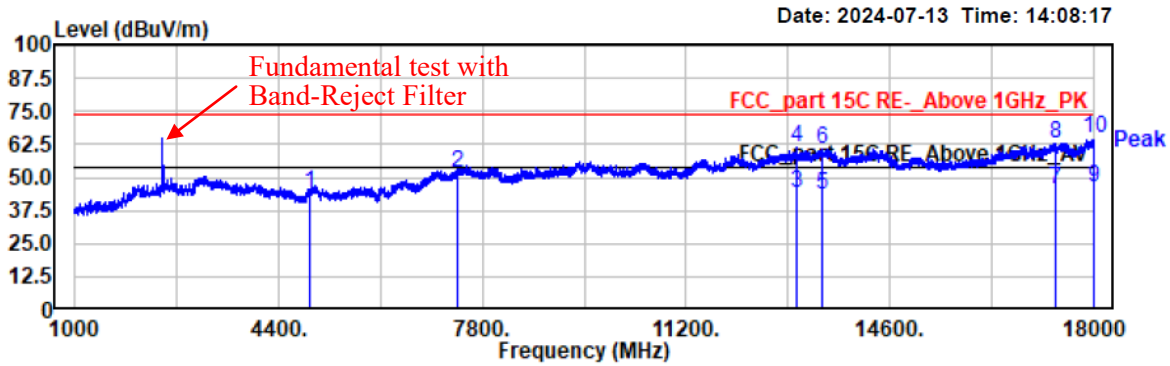


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4874.30	39.18	3.96	43.14	74.00	30.86	vertical	Peak
7311.00	37.51	12.30	49.81	74.00	24.19	vertical	Peak
12053.40	23.21	17.06	40.27	54.00	13.73	vertical	Average
12053.40	41.22	17.06	58.28	74.00	15.72	vertical	Peak
13008.80	23.10	19.66	42.76	54.00	11.24	vertical	Average
13008.80	41.21	19.66	60.87	74.00	13.13	vertical	Peak
17444.10	25.83	19.51	45.34	54.00	8.66	vertical	Average
17444.10	43.18	19.51	62.69	74.00	11.31	vertical	Peak
17998.30	25.57	21.15	46.72	54.00	7.28	vertical	Average
17998.30	43.36	21.15	64.51	74.00	9.49	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11n ht20 high channel

Project No.: 2407T78483E-RF
Test Mode: WiFi 11N20 2462
EUT Model: VS125-P
Test distance: 3m

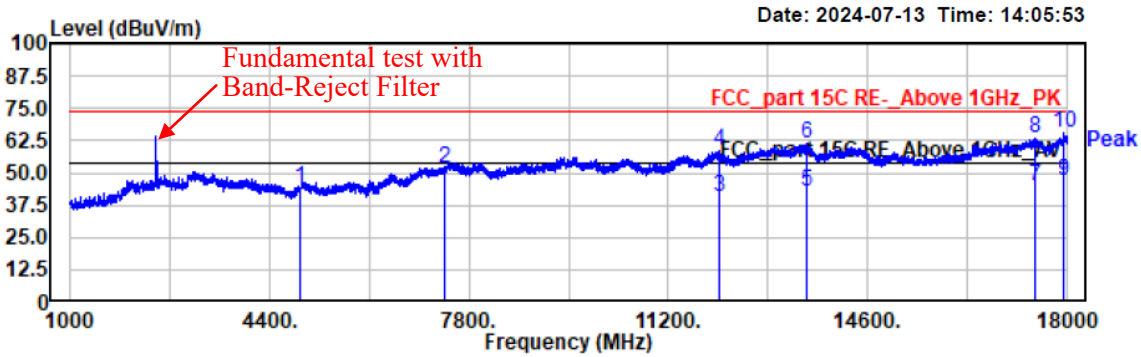
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4923.60	39.59	4.77	44.36	74.00	29.64	horizontal	Peak
7386.00	39.23	12.51	51.74	74.00	22.26	horizontal	Peak
13049.60	24.38	19.47	43.85	54.00	10.15	horizontal	Average
13049.60	42.04	19.47	61.51	74.00	12.49	horizontal	Peak
13467.80	23.73	19.48	43.21	54.00	10.79	horizontal	Average
13467.80	41.37	19.48	60.85	74.00	13.15	horizontal	Peak
17360.80	25.91	19.43	45.34	54.00	8.66	horizontal	Average
17360.80	43.50	19.43	62.93	74.00	11.07	horizontal	Peak
18000.00	25.36	21.16	46.52	54.00	7.48	horizontal	Average
18000.00	43.33	21.16	64.49	74.00	9.51	horizontal	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11N20 2462
EUT Model: VS125-P
Test distance: 3m

Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz

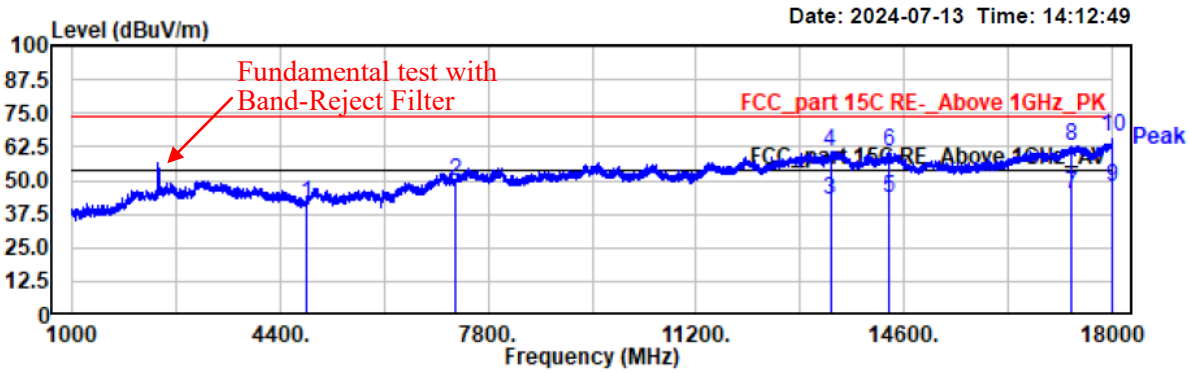


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4923.60	39.04	4.77	43.81	74.00	30.19	vertical	Peak
7386.00	39.02	12.51	51.53	74.00	22.47	vertical	Peak
12072.10	23.69	17.03	40.72	54.00	13.28	vertical	Average
12072.10	41.78	17.03	58.81	74.00	15.19	vertical	Peak
13556.20	23.66	19.19	42.85	54.00	11.15	vertical	Average
13556.20	41.87	19.19	61.06	74.00	12.94	vertical	Peak
17456.00	25.24	19.51	44.75	54.00	9.25	vertical	Average
17456.00	43.92	19.51	63.43	74.00	10.57	vertical	Peak
17949.00	25.60	21.06	46.66	54.00	7.34	vertical	Average
17949.00	44.66	21.06	65.72	74.00	8.28	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11 n ht40 low channel

Project No.: 2407T78483E-RF
Test Mode: WiFi 11N40 2422
EUT Model: VS125-P
Test distance: 3m

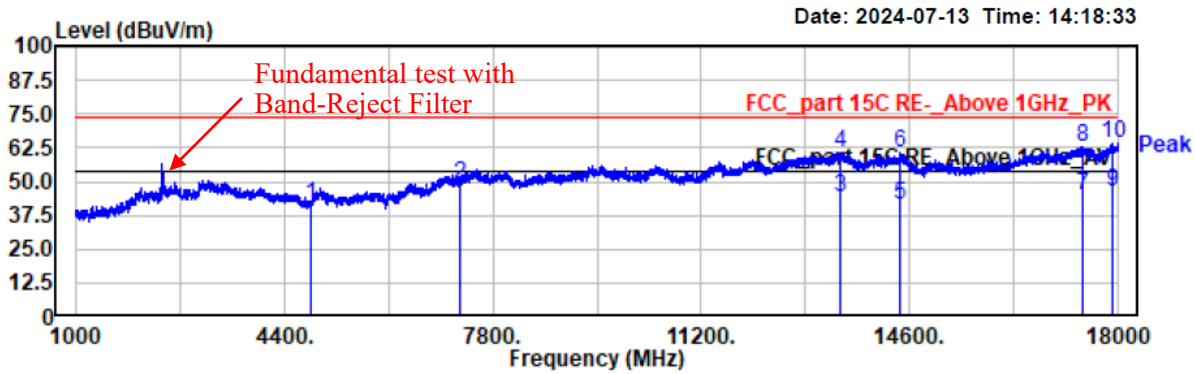
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4843.70	37.89	3.32	41.21	74.00	32.79	horizontal	Peak
7266.00	37.49	11.93	49.42	74.00	24.58	horizontal	Peak
13396.40	23.03	19.45	42.48	54.00	11.52	horizontal	Average
13396.40	41.50	19.45	60.95	74.00	13.05	horizontal	Peak
14339.90	24.92	18.38	43.30	54.00	10.70	horizontal	Average
14339.90	42.10	18.38	60.48	74.00	13.52	horizontal	Peak
17343.80	25.46	19.42	44.88	54.00	9.12	horizontal	Average
17343.80	43.44	19.42	62.86	74.00	11.14	horizontal	Peak
18000.00	26.11	21.16	47.27	54.00	6.73	horizontal	Average
18000.00	45.22	21.16	66.38	74.00	7.62	horizontal	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11N40 2422
EUT Model: VS125-P
Test distance: 3m

Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz

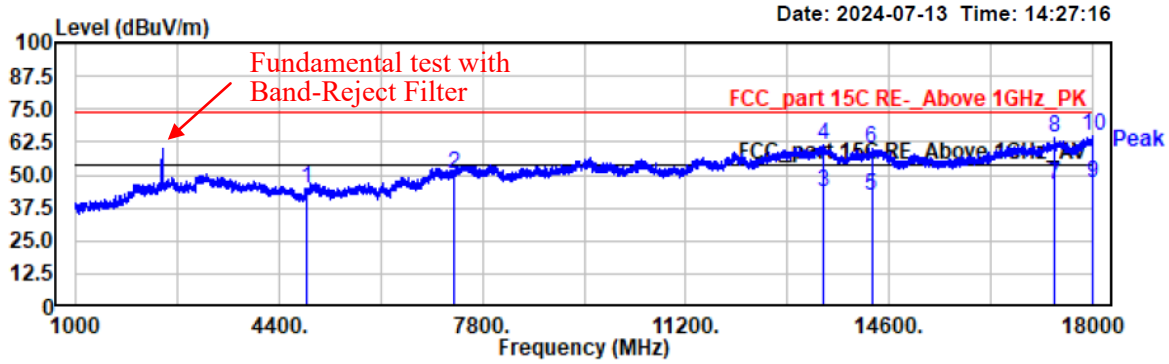


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4843.70	38.23	3.32	41.55	74.00	32.45	vertical	Peak
7266.00	37.00	11.93	48.93	74.00	25.07	vertical	Peak
13462.70	24.83	19.48	44.31	54.00	9.69	vertical	Average
13462.70	41.31	19.48	60.79	74.00	13.21	vertical	Peak
14438.50	23.56	17.90	41.46	54.00	12.54	vertical	Average
14438.50	42.55	17.90	60.45	74.00	13.55	vertical	Peak
17418.60	25.03	19.49	44.52	54.00	9.48	vertical	Average
17418.60	43.04	19.49	62.53	74.00	11.47	vertical	Peak
17911.60	24.99	20.99	45.98	54.00	8.02	vertical	Average
17911.60	43.25	20.99	64.24	74.00	9.76	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11 n ht40 middle channel

Project No.: 2407T78483E-RF
Test Mode: WiFi 11N40 2437
EUT Model: VS125-P
Test distance: 3m

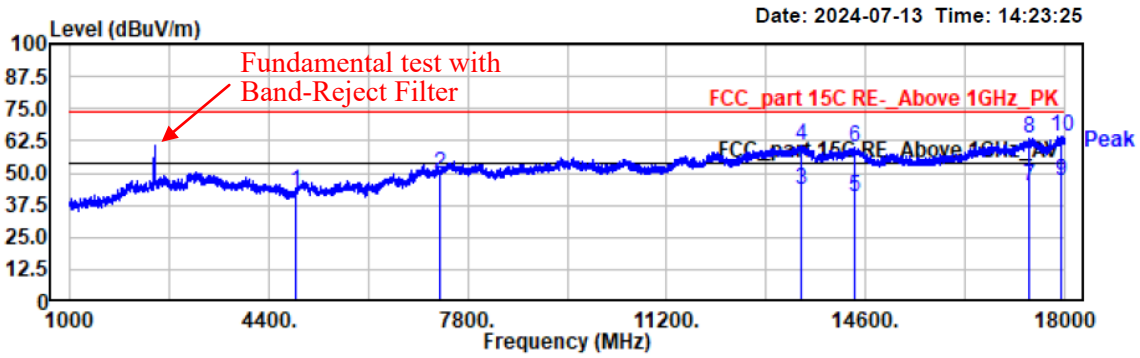
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4874.30	41.03	3.96	44.99	74.00	29.01	horizontal	Peak
7311.00	37.75	12.30	50.05	74.00	23.95	horizontal	Peak
13506.90	23.79	19.44	43.23	54.00	10.77	horizontal	Average
13506.90	41.99	19.44	61.43	74.00	12.57	horizontal	Peak
14309.30	23.18	18.59	41.77	54.00	12.23	horizontal	Average
14309.30	41.22	18.59	59.81	74.00	14.19	horizontal	Peak
17357.40	26.49	19.43	45.92	54.00	8.08	horizontal	Average
17357.40	44.49	19.43	63.92	74.00	10.08	horizontal	Peak
17996.60	25.58	21.15	46.73	54.00	7.27	horizontal	Average
17996.60	43.36	21.15	64.51	74.00	9.49	horizontal	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11N40 2437
EUT Model: VS125-P
Test distance: 3m

Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz

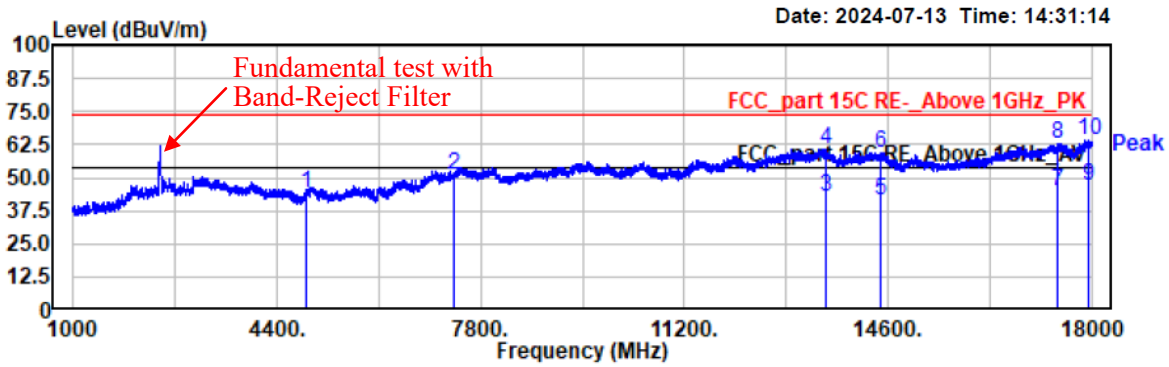


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4874.30	38.63	3.96	42.59	74.00	31.41	vertical	Peak
7311.00	37.21	12.30	49.51	74.00	24.49	vertical	Peak
13510.30	23.84	19.43	43.27	54.00	10.73	vertical	Average
13510.30	41.19	19.43	60.62	74.00	13.38	vertical	Peak
14428.30	23.02	17.92	40.94	54.00	13.06	vertical	Average
14428.30	41.90	17.92	59.82	74.00	14.18	vertical	Peak
17405.00	25.09	19.50	44.59	54.00	9.41	vertical	Average
17405.00	43.70	19.50	63.20	74.00	10.80	vertical	Peak
17932.00	25.74	21.02	46.76	54.00	7.24	vertical	Average
17932.00	43.08	21.02	64.10	74.00	9.90	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11 n ht40 high channel

Project No.: 2407T78483E-RF
Test Mode: WiFi 11N40 2452
EUT Model: VS125-P
Test distance: 3m

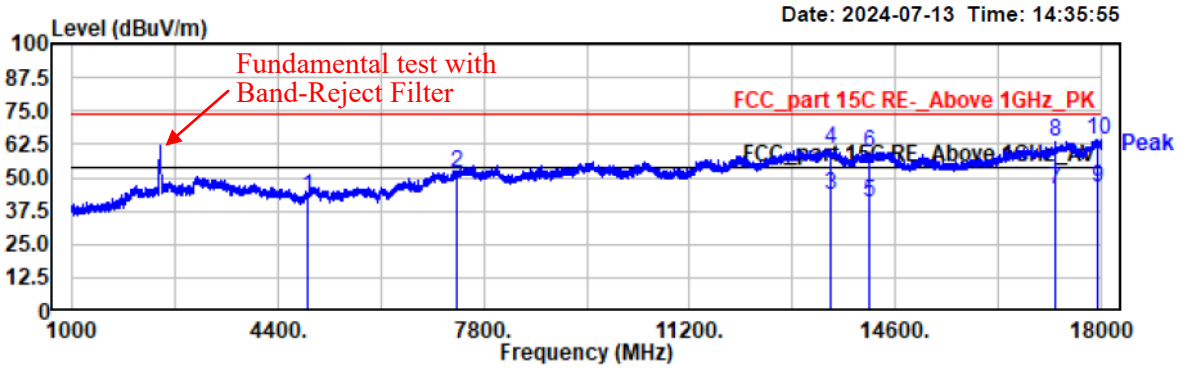
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
4903.20	39.68	4.64	44.32	74.00	29.68	horizontal	Peak
7356.00	38.60	12.23	50.83	74.00	23.17	horizontal	Peak
13556.20	23.58	19.19	42.77	54.00	11.23	horizontal	Average
13556.20	41.67	19.19	60.86	74.00	13.14	horizontal	Peak
14474.20	23.87	17.83	41.70	54.00	12.30	horizontal	Average
14474.20	41.69	17.83	59.52	74.00	14.48	horizontal	Peak
17430.50	25.09	19.50	44.59	54.00	9.41	horizontal	Average
17430.50	43.41	19.50	62.91	74.00	11.09	horizontal	Peak
17940.50	25.83	21.04	46.87	54.00	7.13	horizontal	Average
17940.50	43.19	21.04	64.23	74.00	9.77	horizontal	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11N40 2452
EUT Model: VS125-P
Test distance: 3m

Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



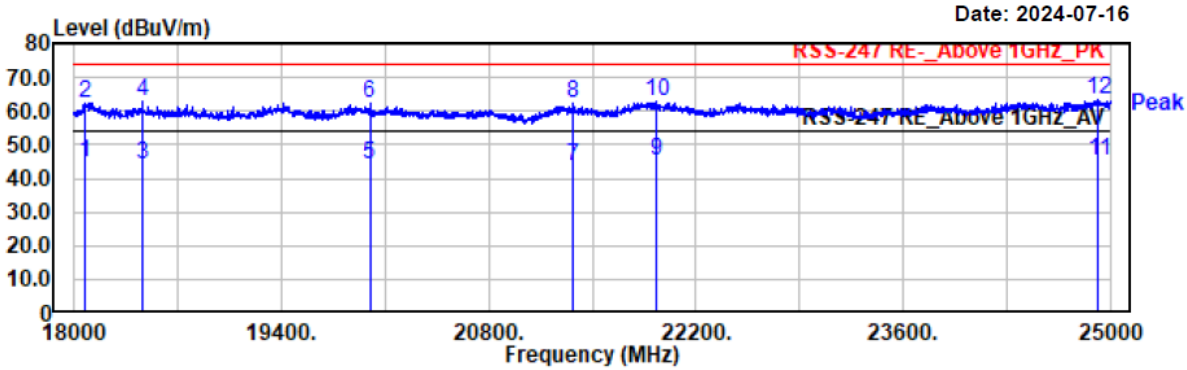
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4903.20	38.45	4.64	43.09	74.00	30.91	vertical	Peak
7356.00	39.19	12.23	51.42	74.00	22.58	vertical	Peak
13529.00	23.98	19.34	43.32	54.00	10.68	vertical	Average
13529.00	41.10	19.34	60.44	74.00	13.56	vertical	Peak
14158.00	23.05	17.79	40.84	54.00	13.16	vertical	Average
14158.00	41.81	17.79	59.60	74.00	14.40	vertical	Peak
17258.80	26.62	19.19	45.81	54.00	8.19	vertical	Average
17258.80	44.05	19.19	63.24	74.00	10.76	vertical	Peak
17954.10	25.34	21.07	46.41	54.00	7.59	vertical	Average
17954.10	43.13	21.07	64.20	74.00	9.80	vertical	Peak

4) 18GHz~25GHz

EUT operation mode: Transmitting in Wifi 802.11b low channel (Worst Case)

Project No.: 2407T78483E-RF
Test Mode: WiFi 11b 2412
EUT Model: VS125-P
Test distance: 3m

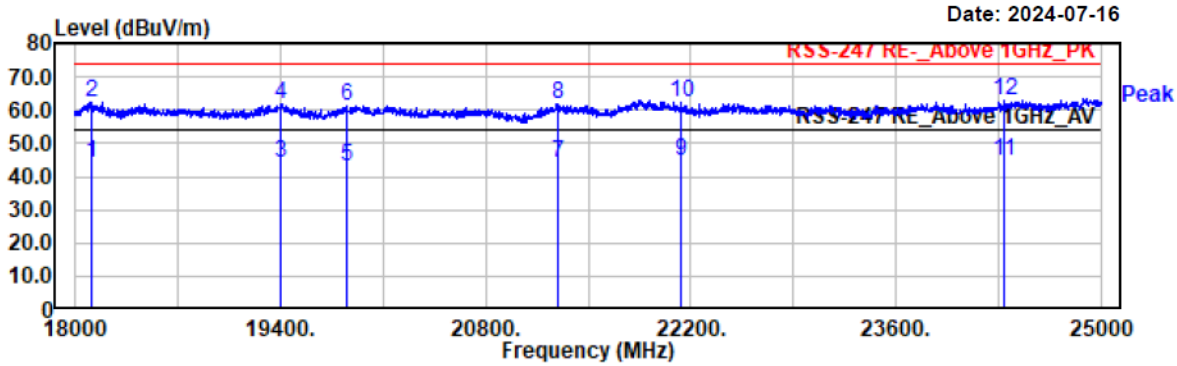
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
18079.20	20.34	24.11	44.45	54.00	9.55	horizontal	Average
18079.20	38.23	24.11	62.34	74.00	11.66	horizontal	Peak
18458.40	19.98	24.34	44.32	54.00	9.68	horizontal	Average
18458.40	38.70	24.34	63.04	74.00	10.96	horizontal	Peak
19996.80	19.31	24.66	43.97	54.00	10.03	horizontal	Average
19996.80	37.73	24.66	62.39	74.00	11.61	horizontal	Peak
21367.20	18.11	25.61	43.72	54.00	10.28	horizontal	Average
21367.20	36.61	25.61	62.22	74.00	11.78	horizontal	Peak
21928.80	19.15	26.07	45.22	54.00	8.78	horizontal	Average
21928.80	37.02	26.07	63.09	74.00	10.91	horizontal	Peak
24916.80	17.04	28.41	45.45	54.00	8.55	horizontal	Average
24916.80	34.80	28.41	63.21	74.00	10.79	horizontal	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11b 2412
EUT Model: VS125-P
Test distance: 3m

Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
18112.80	19.90	24.12	44.02	54.00	9.98	vertical	Average
18112.80	38.19	24.12	62.31	74.00	11.69	vertical	Peak
19404.00	19.80	24.59	44.39	54.00	9.61	vertical	Average
19404.00	37.38	24.59	61.97	74.00	12.03	vertical	Peak
19850.40	18.53	24.64	43.17	54.00	10.83	vertical	Average
19850.40	36.86	24.64	61.50	74.00	12.50	vertical	Peak
21292.80	18.35	25.62	43.97	54.00	10.03	vertical	Average
21292.80	36.23	25.62	61.85	74.00	12.15	vertical	Peak
22128.00	18.64	25.86	44.50	54.00	9.50	vertical	Average
22128.00	36.47	25.86	62.33	74.00	11.67	vertical	Peak
24333.60	16.20	28.25	44.45	54.00	9.55	vertical	Average
24333.60	34.53	28.25	62.78	74.00	11.22	vertical	Peak

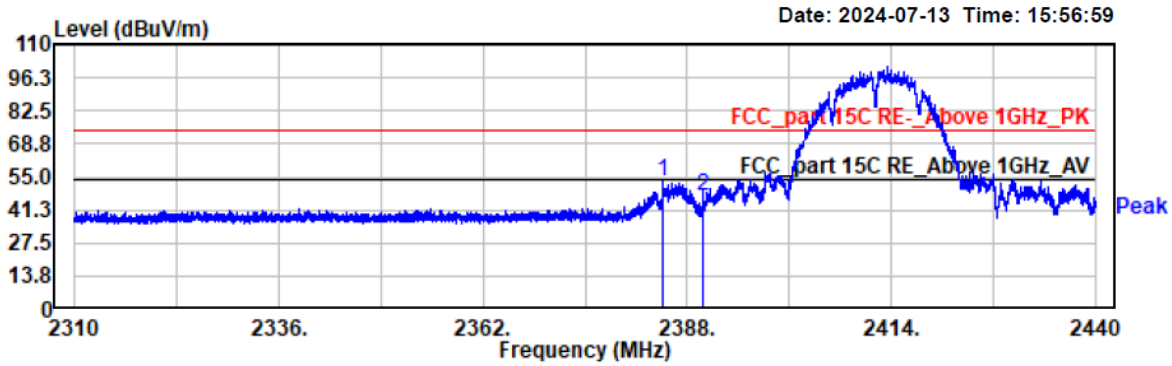
Restricted Bands Emissions:

*Pre-Scan with Wi-Fi 802.11b, 802.11g, 802.11n, 802.11nHT20, 802.11nHT40 modes, the worst case **Z-axis of orientation** is recorded.*

Note:
Factor (dB/m) =Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)
Level (dBμV/m) = Reading (dBμV) + Factor (dB/m)
Margin (dB) = Limit (dBμV/m) –Level (dBμV/m)

Project No.: 2407T78483E-RF
Test Mode: WiFi 11B 2412
EUT Model: VS125-P
Test distance: 3m

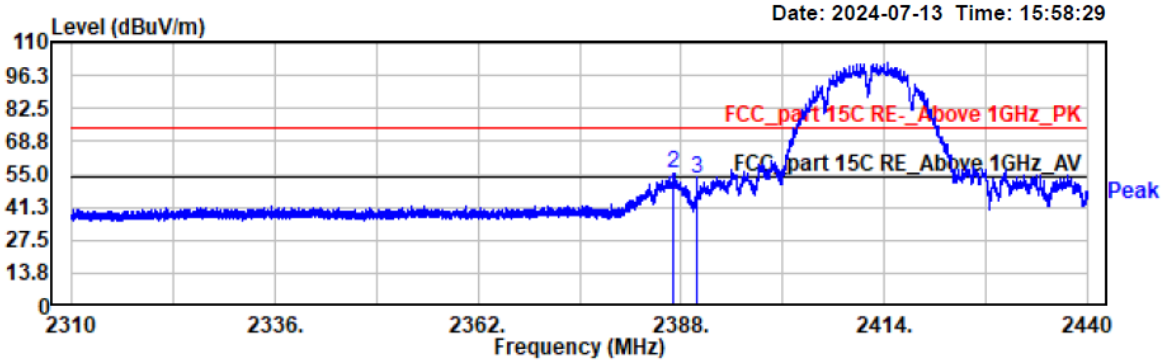
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
2384.98	48.52	4.23	52.75	74.00	21.25	horizontal	Peak
2390.00	42.74	4.28	47.02	74.00	26.98	horizontal	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11B 2412
EUT Model: VS125-P
Test distance: 3m

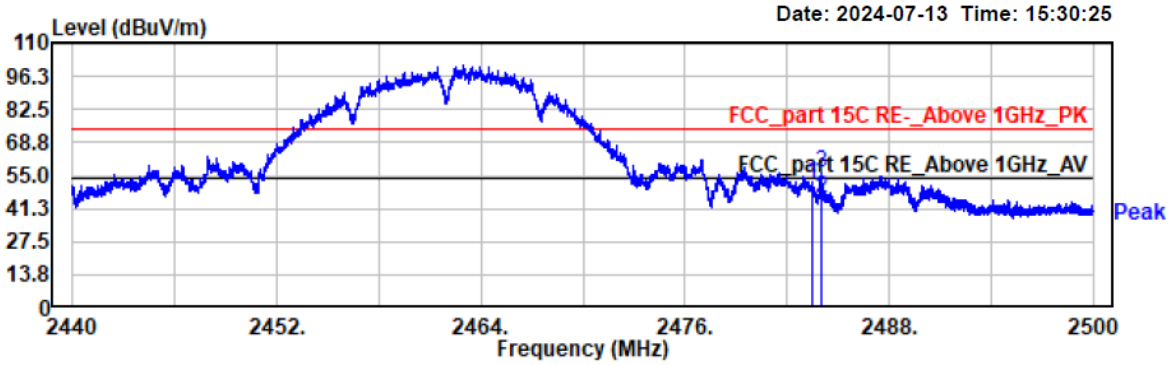
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
2386.96	41.78	4.26	46.04	54.00	7.96	vertical	Average
2386.96	51.00	4.26	55.26	74.00	18.74	vertical	Peak
2390.00	49.07	4.28	53.35	74.00	20.65	vertical	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11B 2462
EUT Model: VS125-P
Test distance: 3m

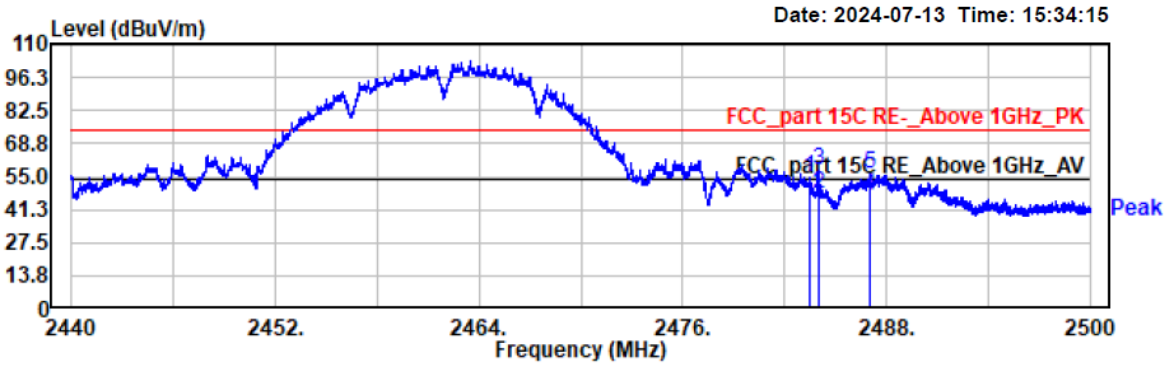
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	46.85	5.03	51.88	74.00	22.12	horizontal	Peak
2484.02	40.63	5.04	45.67	54.00	8.33	horizontal	Average
2484.02	51.09	5.04	56.13	74.00	17.87	horizontal	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11B 2462
EUT Model: VS125-P
Test distance: 3m

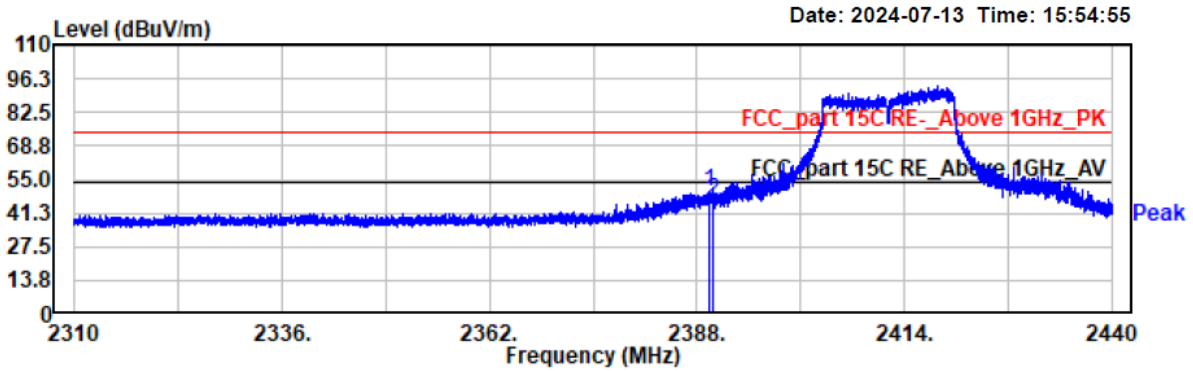
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	49.26	5.03	54.29	74.00	19.71	vertical	Peak
2483.99	43.09	5.04	48.13	54.00	5.87	vertical	Average
2483.99	52.34	5.04	57.38	74.00	16.62	vertical	Peak
2487.01	42.16	5.08	47.24	54.00	6.76	vertical	Average
2487.01	50.82	5.08	55.90	74.00	18.10	vertical	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11G 2412
EUT Model: VS125-P
Test distance: 3m

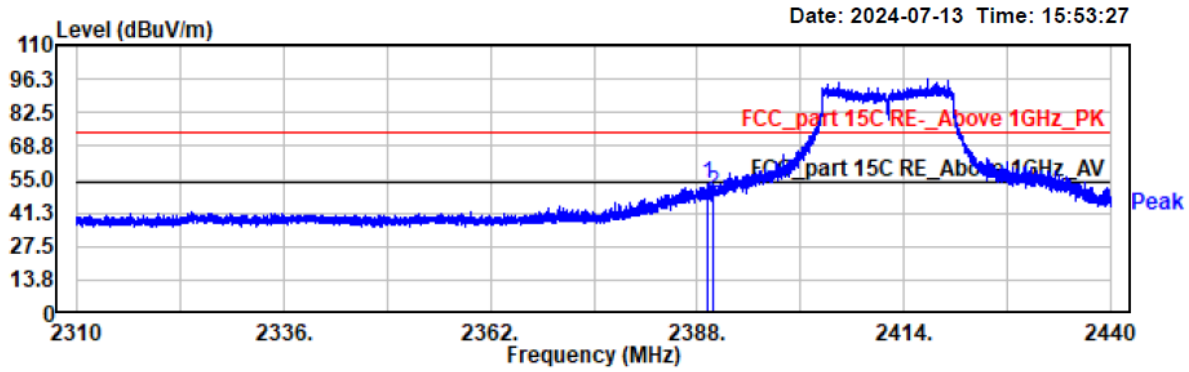
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
2389.59	45.46	4.27	49.73	74.00	24.27	horizontal	Peak
2390.00	41.65	4.28	45.93	74.00	28.07	horizontal	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11G 2412
EUT Model: VS125-P
Test distance: 3m

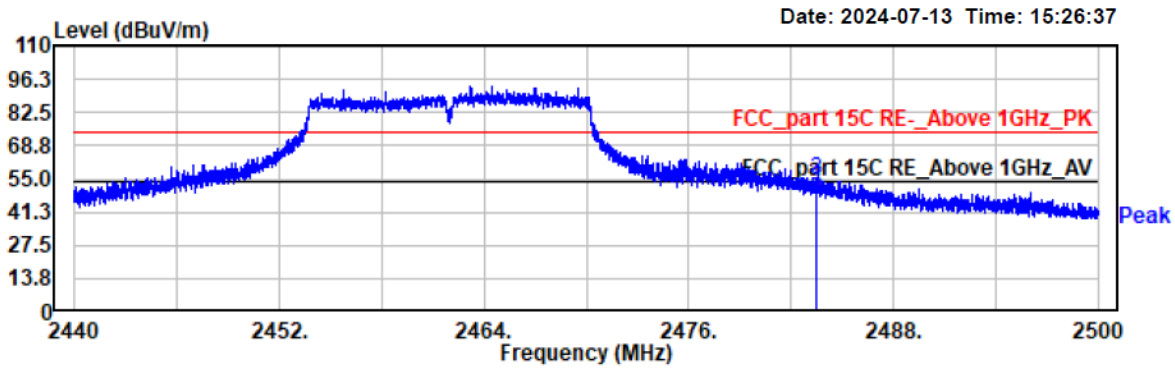
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2389.21	48.58	4.27	52.85	74.00	21.15	vertical	Peak
2390.00	45.08	4.28	49.36	74.00	24.64	vertical	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11G 2462
EUT Model: VS125-P
Test distance: 3m

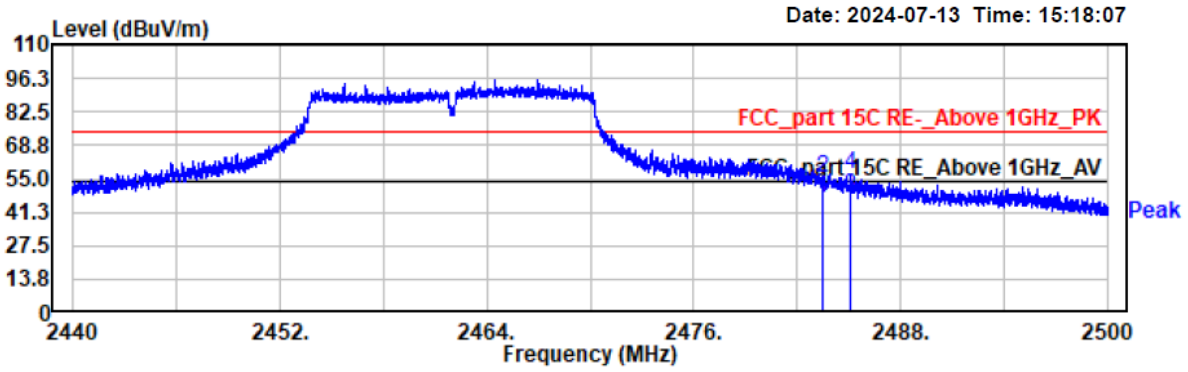
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	46.85	5.03	51.88	74.00	22.12	horizontal	Peak
2483.51	41.05	5.03	46.08	54.00	7.92	horizontal	Average
2483.51	49.42	5.03	54.45	74.00	19.55	horizontal	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11G 2462
EUT Model: VS125-P
Test distance: 3m

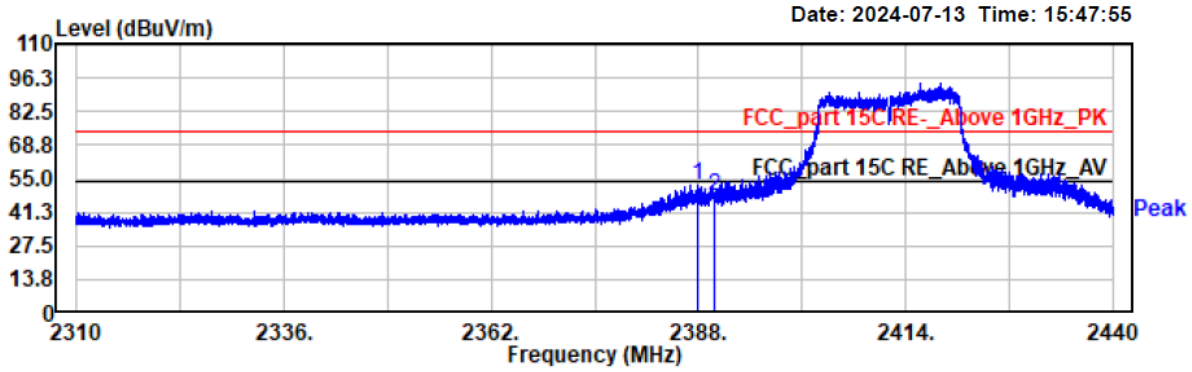
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	41.98	5.03	47.01	54.00	6.99	vertical	Average
2483.50	50.18	5.03	55.21	74.00	18.79	vertical	Peak
2485.13	42.79	5.05	47.84	54.00	6.16	vertical	Average
2485.13	51.75	5.05	56.80	74.00	17.20	vertical	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11N20 2412
EUT Model: VS125-P
Test distance: 3m

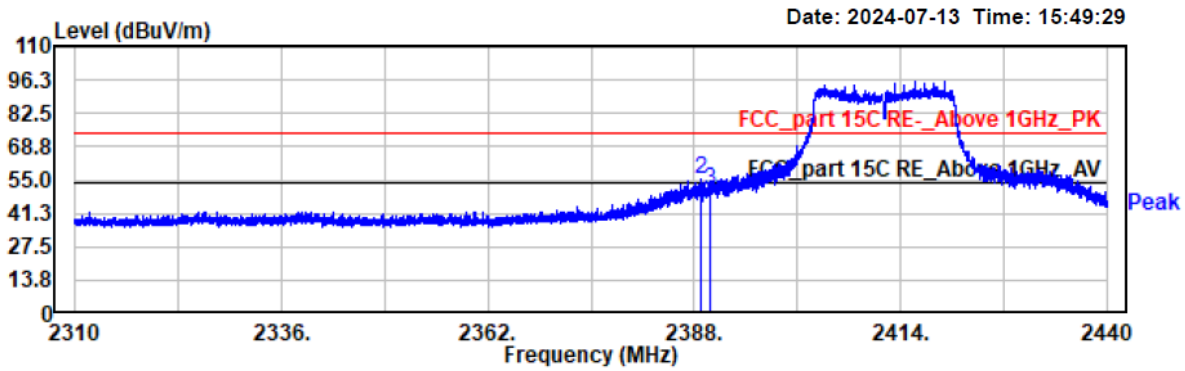
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
2387.95	48.39	4.26	52.65	74.00	21.35	horizontal	Peak
2390.00	43.32	4.28	47.60	74.00	26.40	horizontal	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11N20 2412
EUT Model: VS125-P
Test distance: 3m

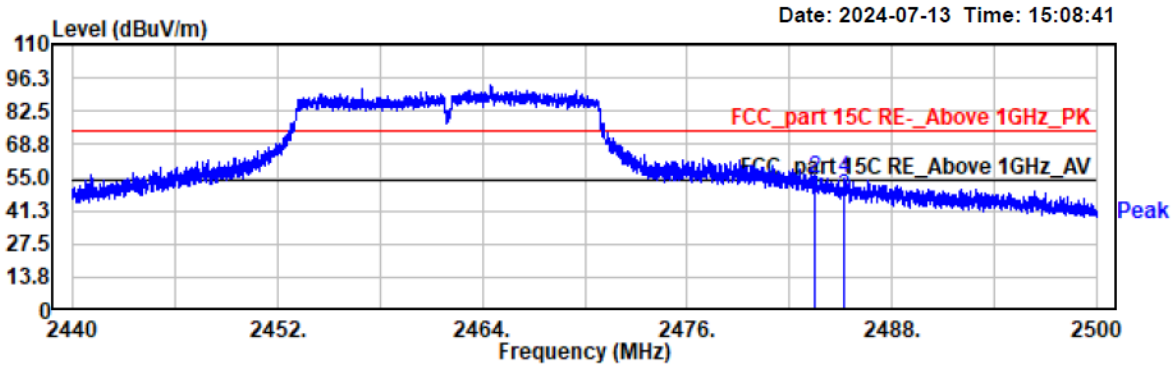
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2388.85	40.68	4.27	44.95	54.00	9.05	vertical	Average
2388.85	50.97	4.27	55.24	74.00	18.76	vertical	Peak
2390.00	46.56	4.28	50.84	74.00	23.16	vertical	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11N20 2462
EUT Model: VS125-P
Test distance: 3m

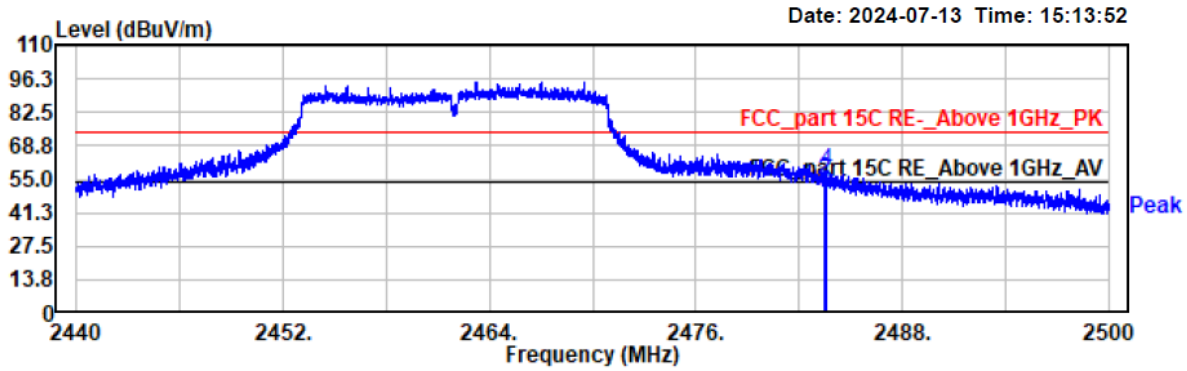
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	41.35	5.03	46.38	54.00	7.62	horizontal	Average
2483.50	49.32	5.03	54.35	74.00	19.65	horizontal	Peak
2485.17	42.27	5.05	47.32	54.00	6.68	horizontal	Average
2485.17	49.49	5.05	54.54	74.00	19.46	horizontal	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11N20 2462
EUT Model: VS125-P
Test distance: 3m

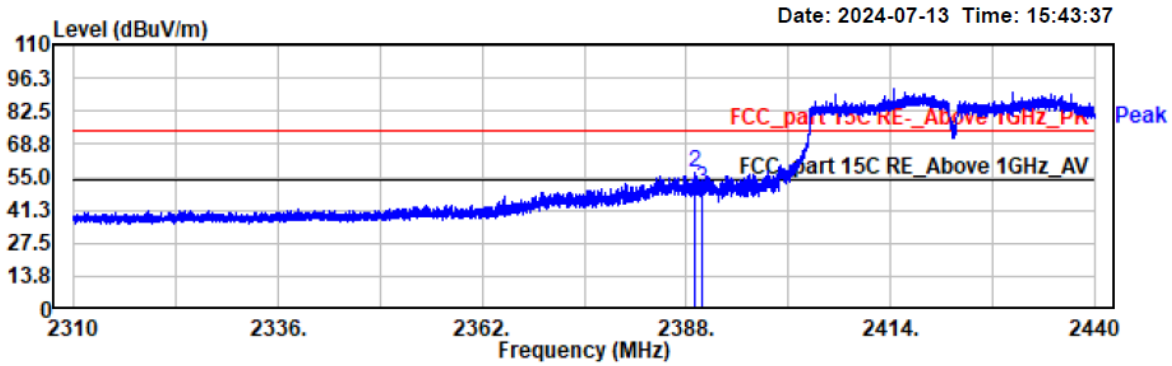
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	43.17	5.03	48.20	54.00	5.80	vertical	Average
2483.50	49.35	5.03	54.38	74.00	19.62	vertical	Peak
2483.57	44.40	5.03	49.43	54.00	4.57	vertical	Average
2483.57	53.50	5.03	58.53	74.00	15.47	vertical	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11N40 2422
EUT Model: VS125-P
Test distance: 3m

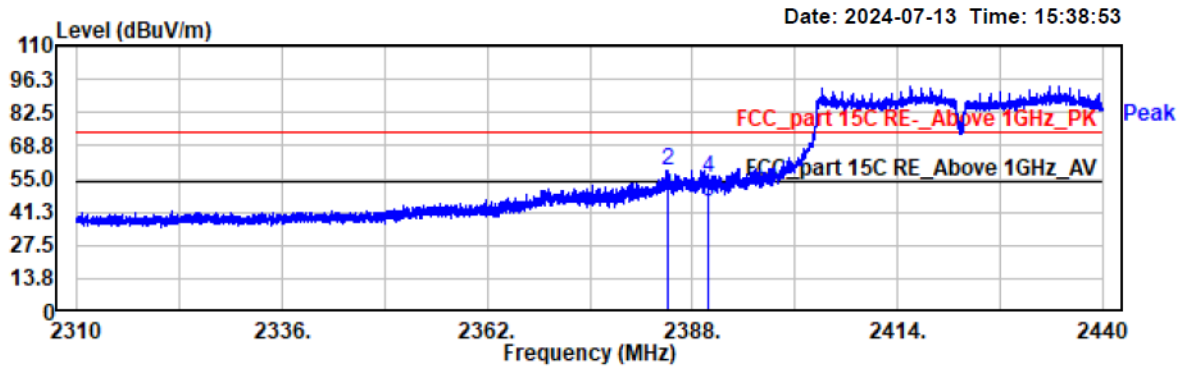
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
2389.18	42.32	4.27	46.59	54.00	7.41	horizontal	Average
2389.18	52.54	4.27	56.81	74.00	17.19	horizontal	Peak
2390.00	45.66	4.28	49.94	74.00	24.06	horizontal	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11N40 2422
EUT Model: VS125-P
Test distance: 3m

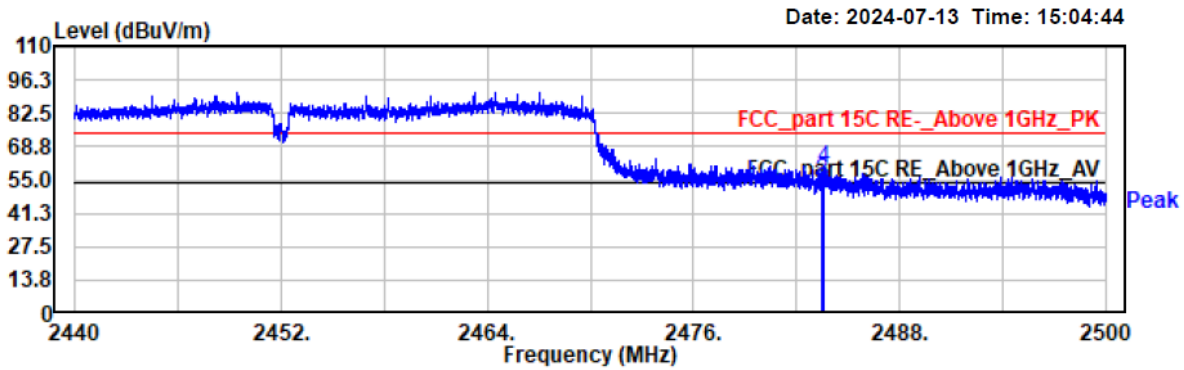
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2384.83	43.70	4.23	47.93	54.00	6.07	vertical	Average
2384.83	54.36	4.23	58.59	74.00	15.41	vertical	Peak
2390.00	41.37	4.28	45.65	54.00	8.35	vertical	Average
2390.00	50.73	4.28	55.01	74.00	18.99	vertical	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11N40 2452
EUT Model: VS125-P
Test distance: 3m

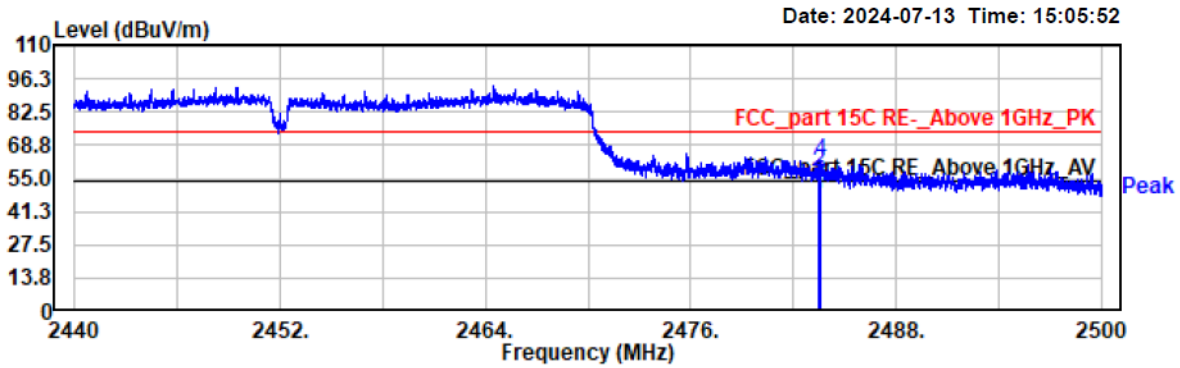
Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	43.52	5.03	48.55	54.00	5.45	horizontal	Average
2483.50	49.32	5.03	54.35	74.00	19.65	horizontal	Peak
2483.60	45.64	5.03	50.67	54.00	3.33	horizontal	Average
2483.60	55.26	5.03	60.29	74.00	13.71	horizontal	Peak

Project No.: 2407T78483E-RF
Test Mode: WiFi 11N40 2452
EUT Model: VS125-P
Test distance: 3m

Temp/Humi: 23.1℃/55%
Tested by: Ash Lin
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	43.65	5.03	48.68	54.00	5.32	vertical	Average
2483.50	52.44	5.03	57.47	74.00	16.53	vertical	Peak
2483.63	47.98	5.03	53.01	54.00	0.99	vertical	Average
2483.63	56.91	5.03	61.94	74.00	12.06	vertical	Peak