



FCC PART 15.247

TEST REPORT

For

Fujian Wazan Technology Co., Ltd.

601, Building 1, Huajian mansion, No. 12 Science and Technology East Road, High-tech Zone,
Fuzhou, Fujian, China

FCC ID: 2BGEKU0301

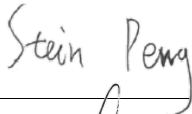
Report Type: Original Report	Product Name: Unattended Payment Terminal Su3
Report Number:	2407S72267E-RF-02
Report Date:	2024-07-15
Reviewed By:	Stein Peng 
Approved By:	Miles Chen 
Prepared By:	Bay Area Compliance Laboratories Corp. (Xiamen) Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, 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	2407S72267E-RF-02	R1V1	2024-07-15	Initial Release

GENERAL INFORMATION**Product Description for Equipment under Test (EUT)**

Product Name:	Unattended Payment Terminal Su3
Tested Model:	Su3
Power Supply:	DC 12V
Maximum Conducted Output Power:	BLE: 4.28dBm WIFI:18.45dBm
Frequency Range:	BLE: 2402-2480MHz Wi-Fi: 2412-2462MHz
Modulation Technique:	BLE: GFSK WIFI: DSSS, OFDM
Antenna Type:	FPC Antenna
★Maximum Antenna Gain:	-3.35dBi
EUT Received Status:	Good
<i>Note:</i> 1. The Maximum Antenna Gain was declared by manufacturer. 2. All measurement and test data in this report was gathered from production sample serial number: 2MA2-1 (Assigned by the BACL(Xiamen). The EUT supplied by the applicant was received on 2024-04-24)	

Objective

This report is prepared on behalf of Fujian Wazan Technology 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
	9kHz-30MHz	2.59 dB
Radiated Emission	30MHz~1GHz	4.79 dB
	1GHz~6GHz	4.6 dB
	6GHz-18GHz	5.42 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°C
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:	Test mode 1: Transmitting
Test voltage:	Test mode 1: DC 12V from adapter (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 BLE mode, 40 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404	21	2444
2	2406	22	2446
3	2408	23	2448
4	2410	24	2450
5	2412	25	2452
6	2414	26	2454
7	2416	27	2456
8	2418	28	2458
9	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

EUT was tested with Channel 0, 19 and 39.

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

BLE & Wi-Fi test in the engineer mode.

RF Test Tool: cmd.exe

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

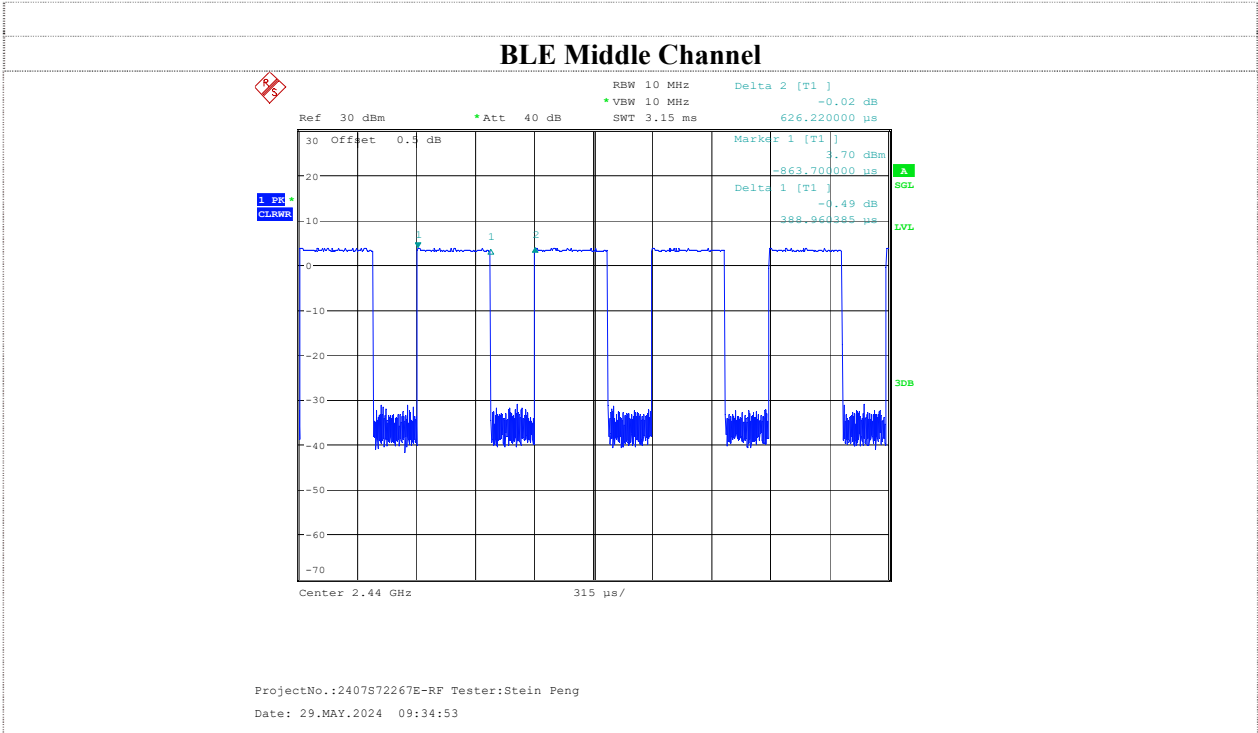
Mode	Data rate	Power level		
		Low channel	Middle channel	High channel
802.11b	1 Mbps	42	42	42
802.11g	6 Mbps	48	48	48
802.11n-HT20	MCS0	45	45	45
802.11n-HT40	MCS0	45	45	45
BLE	1 Mbps	0x20	0x20	0x20

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

Duty cycle

For BLE:

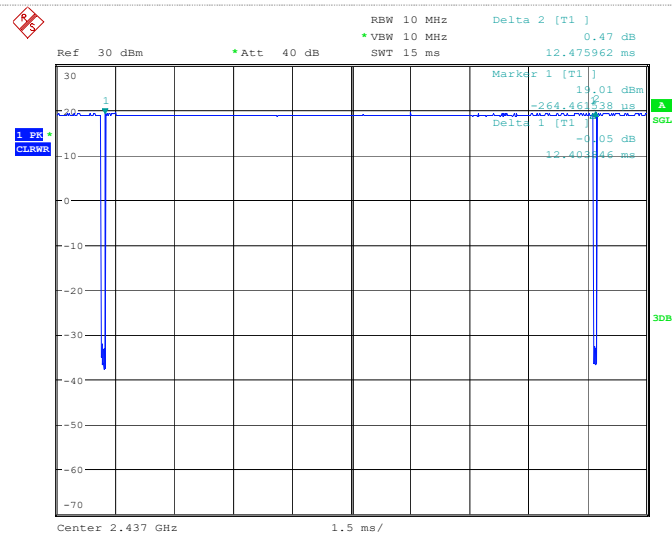
Mode	Test Frequency (MHz)	Ton (ms)	Ton+off (ms)	Duty cycle (%)	1/T (Hz)	VBW Setting (kHz)
BLE	2440	0.389	0.626	62.14	2571	3



For WIFI:

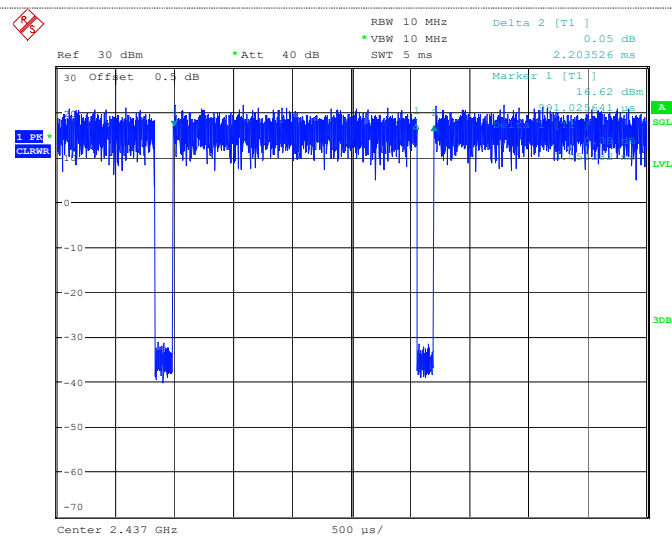
Modes	Ton (ms)	Ton+off (ms)	Duty cycle (%)	1/T (Hz)	Duty Factor (dB)	VBW Setting (kHz)
802.11b	12.404	12.476	99.42	81	/	0.1
802.11g	2.051	2.204	93.06	488	0.31	0.5
802.11n ht20	1.915	1.987	96.38	522	0.16	1
802.11n ht40	0.937	1.082	86.60	1067	0.62	2

802.11b Middle Channel



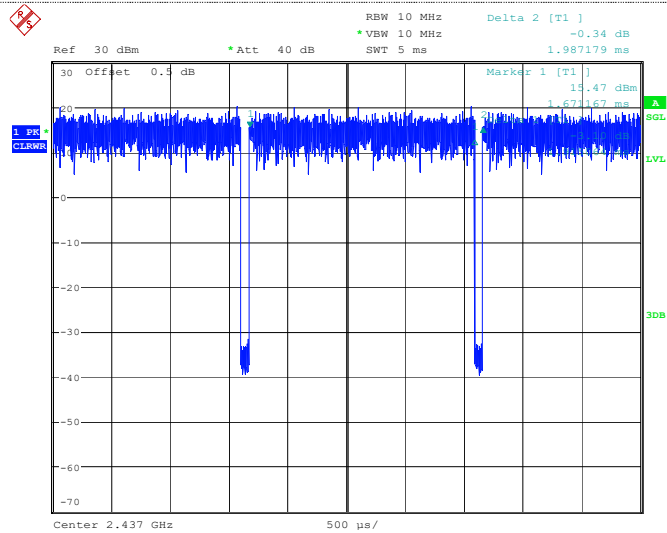
ProjectNo.:2407S72267E-RF Tester:Stein Peng
Date: 29.MAY.2024 11:23:33

802.11g Middle Channel



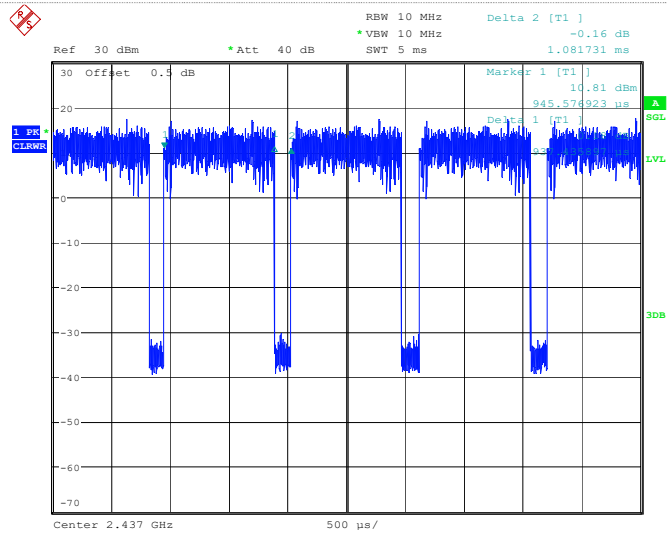
ProjectNo.:2407S72267E-RF Tester:Stein Peng
Date: 27.MAY.2024 18:26:18

802.11n ht20 Middle Channel



ProjectNo.:2407S72267E-RF Tester:Stein Peng
Date: 27.MAY.2024 18:28:09

802.11n ht40 Middle Channel



ProjectNo.:2407S72267E-RF Tester:Stein Peng
Date: 27.MAY.2024 18:30:39

Support Equipment List and Details

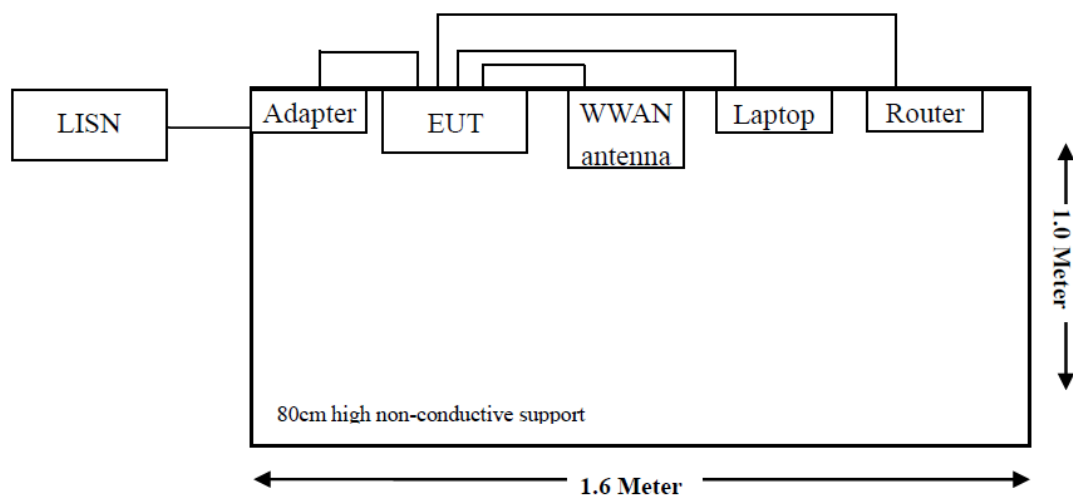
Manufacturer	Description	Model	Serial Number
Lenovo	Laptop	T480	PF1P5K4F
Honor	Router	WS831	W6E7S15B09001200
Shanghai Jiesoncom Communication Engineering Co., Ltd	WWAN antenna	9Z067M	N/A
MNC	Adapter	MACS- 1201501801	MACS-120150190004

External I/O Cable

Cable Description	Length (m)	From Port	To
Power Line	1.8	EUT	Adapter
USB Line	1	EUT	Laptop
Network cable	10	EUT	Router

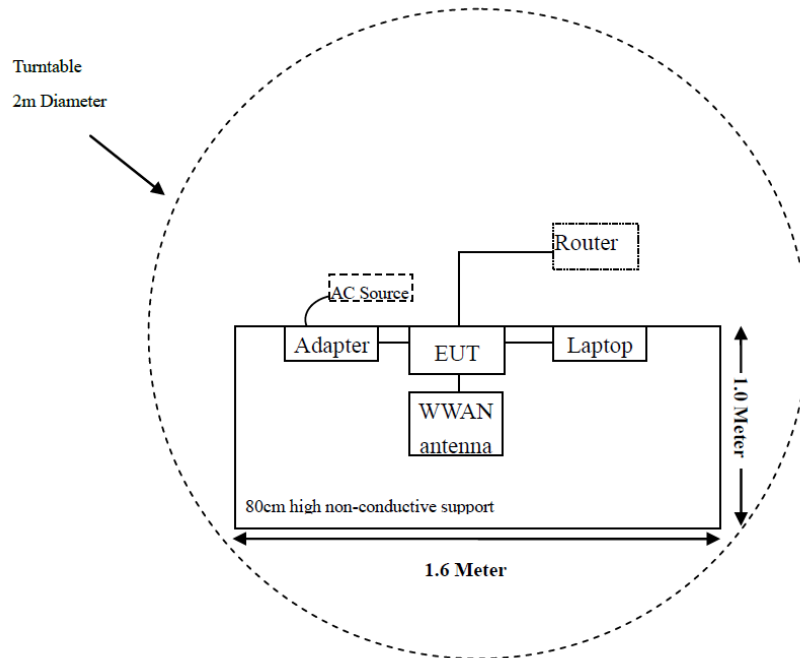
Block Diagram of Test Setup

Conducted Emission:

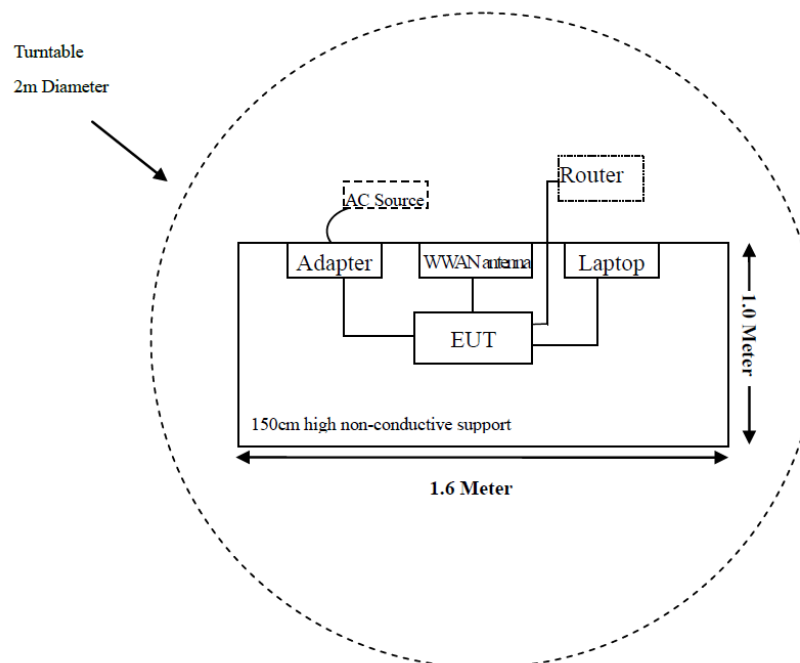


Radiated Emission:

Below 1GHz



Above 1GHz



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€	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	2023/09/12	2024/09/11
LISN	Rohde & Schwarz	ENV216	100129	2023/09/12	2024/09/11
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	0357.8810.54	2023/09/12	2024/09/11
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC001	2023/08/29	2024/08/28
Test Software	Audix	E3	18621a	N/A	N/A
Radiated Emissions Below 1GHz					
EMI Test Receiver	Rohde & Schwarz	ESR	103103	2023/09/12	2024/09/11
Loop Antenna	Rohde & Schwarz	HFH2-Z2	830749/001	2023/07/27	2026/07/26
Band-Reject Filter	Oulitong	OBSF-2400	0E01601524	2024/03/29	2025/03/28
Antenna	Sunol Sciences	JB6	A122022-5	2023/07/27	2026/07/26
Amplifier	Sonoma	310B	120903	2023/09/12	2024/09/11
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC002	2023/08/29	2024/08/28
Coaxial Cable	XINHANGWEIBO	XH460B-N-2M	CC006	2023/08/29	2024/08/28
Coaxial Cable	XINHANGWEIBO	XH460B-N-12M	CC007	2023/08/29	2024/08/28
Coaxial Cable	XINHANGWEIBO	HFH2-CC	335.3609	2023.9.20	2024/09/19
Test Software	Audix	E3	18621a	N/A	N/A
Radiated Emissions Above 1 GHz					
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102051	2023/09/12	2024/09/11
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
Horn Antenna	EMCO	3116	9407-2232	2023/07/31	2026/07/30
Preamplifier	A.H.Systems	PAM-0118P	489	2023/09/12	2024/09/11
Preamplifier	A.H.Systems	PAM-1840	200	2023/09/12	2024/09/11
Coaxial Cable	XINHANGWEIBO	XH800A-N-6M	CC004	2023/08/29	2024/08/28
Coaxial Cable	XINHANGWEIBO	XH800A-N-1M	CC005	2023/08/29	2024/08/28
Test Software	Audix	E3	18621a	N/A	N/A
RF Conducted Test					
Spectrum Analyzer	Rohde & Schwarz	FSU	100405	2023-09-12	2024/09/11
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 FPC antenna arrangement for Bluetooth & WIFI, which was permanently attached and the antenna gain is -3.35 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

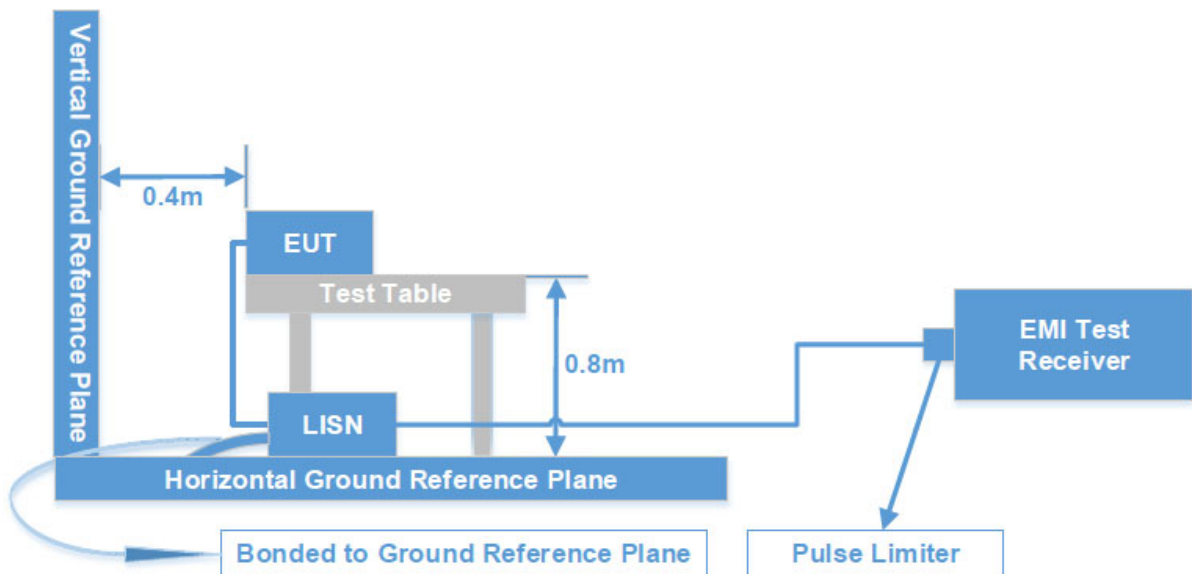
Result: Compliance

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:

$$\begin{aligned}\text{Factor (dB)} &= \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)} \\ \text{Level (dB}\mu\text{V)} &= \text{Reading (dB}\mu\text{V)} + \text{Factor (dB)}\end{aligned}$$

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:

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V)} - \text{Level (dB}\mu\text{V)}$$

Test Data

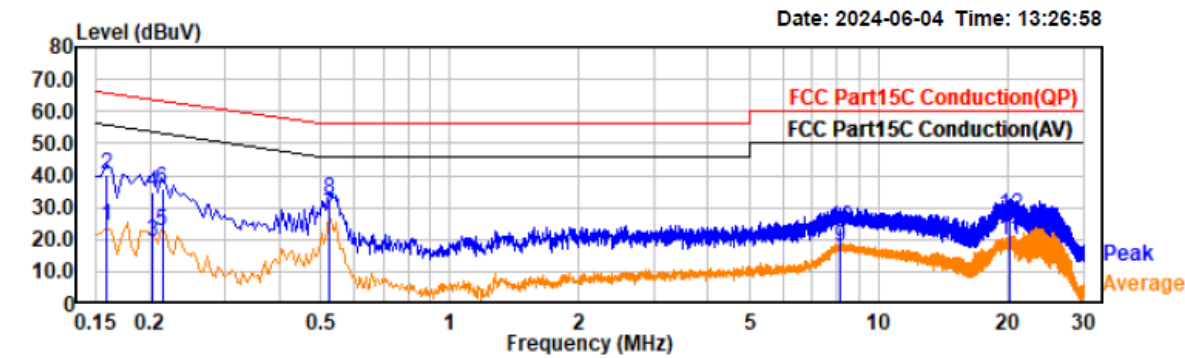
Temperature:	21°C
Relative Humidity:	54 %
ATM Pressure:	101kPa
Test Date:	2024-06-04
Test Engineer:	Toby Chen

For Wifi

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

Project No.: 2407S72267E-RF
Test Mode: WiFi 11b 2412
EUT Model: Su3

Temp/Humi: 21.4°C/54%
Tested by: Toby Chen
Power Source: AC 120V/60Hz

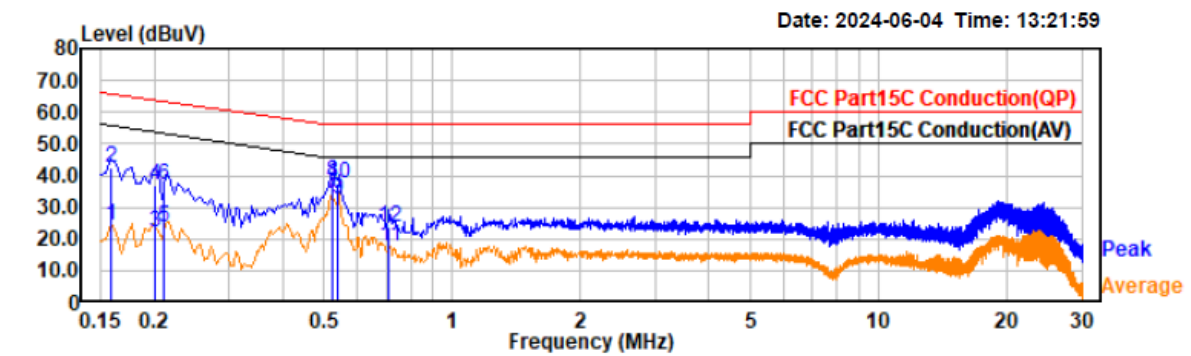


Trace: 1

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.16	4.52	19.51	24.03	55.52	31.49	Line	Average
0.16	20.82	19.51	40.33	65.52	25.19	Line	QP
0.20	-0.28	19.52	19.24	53.52	34.28	Line	Average
0.20	15.28	19.52	34.80	63.52	28.72	Line	QP
0.21	3.23	19.53	22.76	53.06	30.30	Line	Average
0.21	16.16	19.53	35.69	63.06	27.37	Line	QP
0.52	7.97	19.60	27.57	46.00	18.43	Line	Average
0.52	13.07	19.60	32.67	56.00	23.33	Line	QP
8.14	-2.07	19.86	17.79	50.00	32.21	Line	Average
8.14	3.95	19.86	23.81	60.00	36.19	Line	QP
20.14	-0.10	19.89	19.79	50.00	30.21	Line	Average
20.14	7.43	19.89	27.32	60.00	32.68	Line	QP

Project No.: 2407S72267E-RF
Test Mode: WiFi 11b 2412
EUT Model: Su3

Temp/Humi: 21.4°C/54%
Tested by: Toby Chen
Power Source: AC 120V/60Hz



Trace: 1

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.16	4.62	19.48	24.10	55.53	31.43	Neutral	Average
0.16	22.73	19.48	42.21	65.53	23.32	Neutral	QP
0.20	2.58	19.49	22.07	53.58	31.51	Neutral	Average
0.20	17.55	19.49	37.04	63.58	26.54	Neutral	QP
0.21	4.28	19.50	23.78	53.15	29.37	Neutral	Average
0.21	17.37	19.50	36.87	63.15	26.28	Neutral	QP
0.52	14.52	19.62	34.14	46.00	11.86	Neutral	Average
0.52	18.60	19.62	38.22	56.00	17.78	Neutral	QP
0.54	13.01	19.61	32.62	46.00	13.38	Neutral	Average
0.54	17.96	19.61	37.57	56.00	18.43	Neutral	QP
0.71	-1.71	19.56	17.85	46.00	28.15	Neutral	Average
0.71	3.93	19.56	23.49	56.00	32.51	Neutral	QP

For BLE:

EUT operation mode: Transmitting in BLE high channel (worst case)

Project No.: 2407S72267E-RF

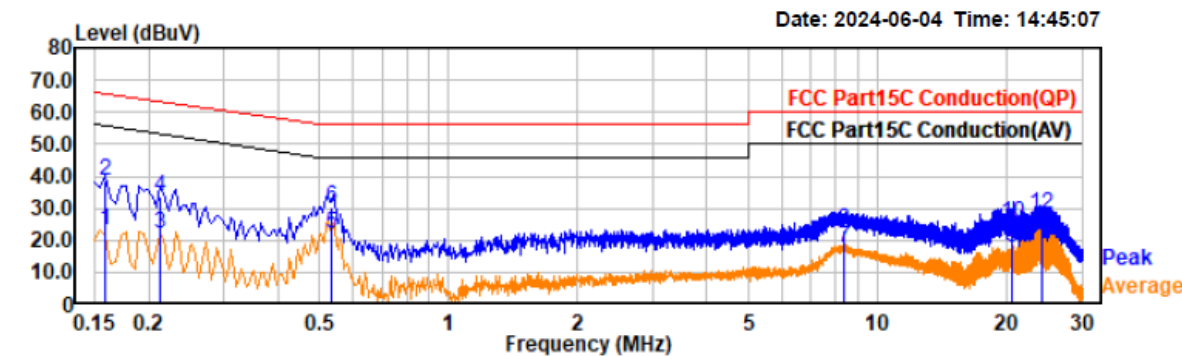
Test Mode: BLE 2480

EUT Model: Su3

Temp/Humi: 21.4°C/54%

Tested by: Toby Chen

Power Source: AC 120V/60Hz

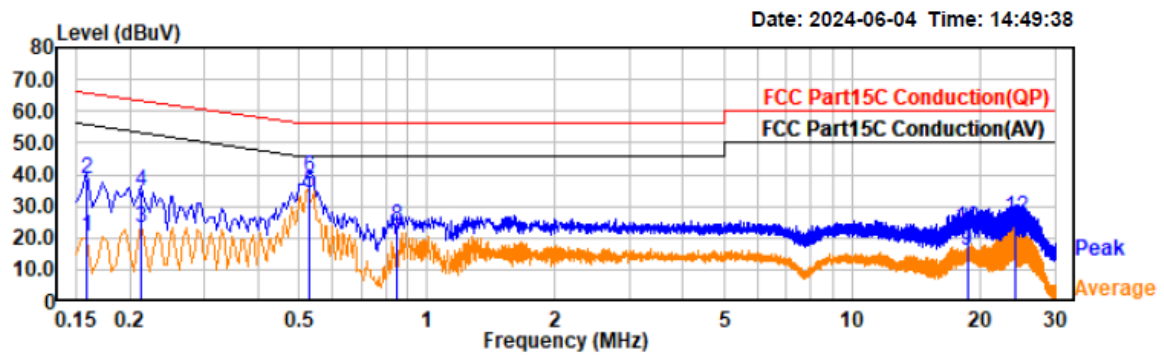


Trace: 1

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.16	3.58	19.51	23.09	55.55	32.46	Line	Average
0.16	19.12	19.51	38.63	65.55	26.92	Line	QP
0.21	2.79	19.52	22.31	53.09	30.78	Line	Average
0.21	14.19	19.52	33.71	63.09	29.38	Line	QP
0.53	2.46	19.60	22.06	46.00	23.94	Line	Average
0.53	10.67	19.60	30.27	56.00	25.73	Line	QP
8.34	-2.45	19.86	17.41	50.00	32.59	Line	Average
8.34	3.25	19.86	23.11	60.00	36.89	Line	QP
20.62	-2.24	19.89	17.65	50.00	32.35	Line	Average
20.62	5.54	19.89	25.43	60.00	34.57	Line	QP
24.05	3.65	20.18	23.83	50.00	26.17	Line	Average
24.05	8.19	20.18	28.37	60.00	31.63	Line	QP

Project No.: 2407S72267E-RF
Test Mode: BLE 2480
EUT Model: Su3

Temp/Humi: 21.4°C/54%
Tested by: Toby Chen
Power Source: AC 120V/60Hz

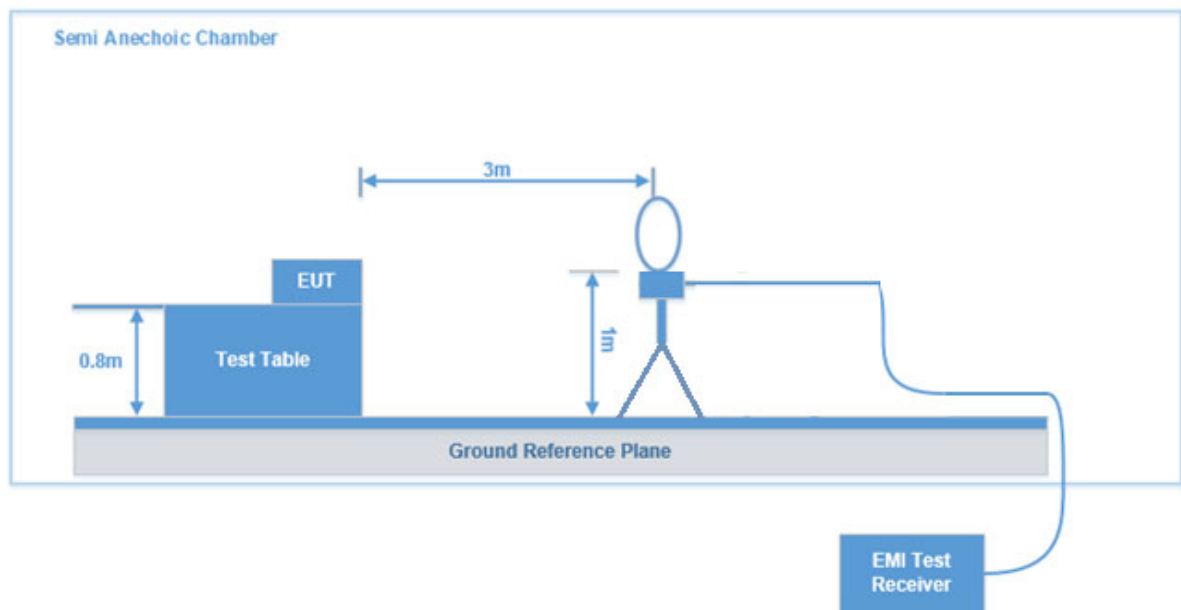
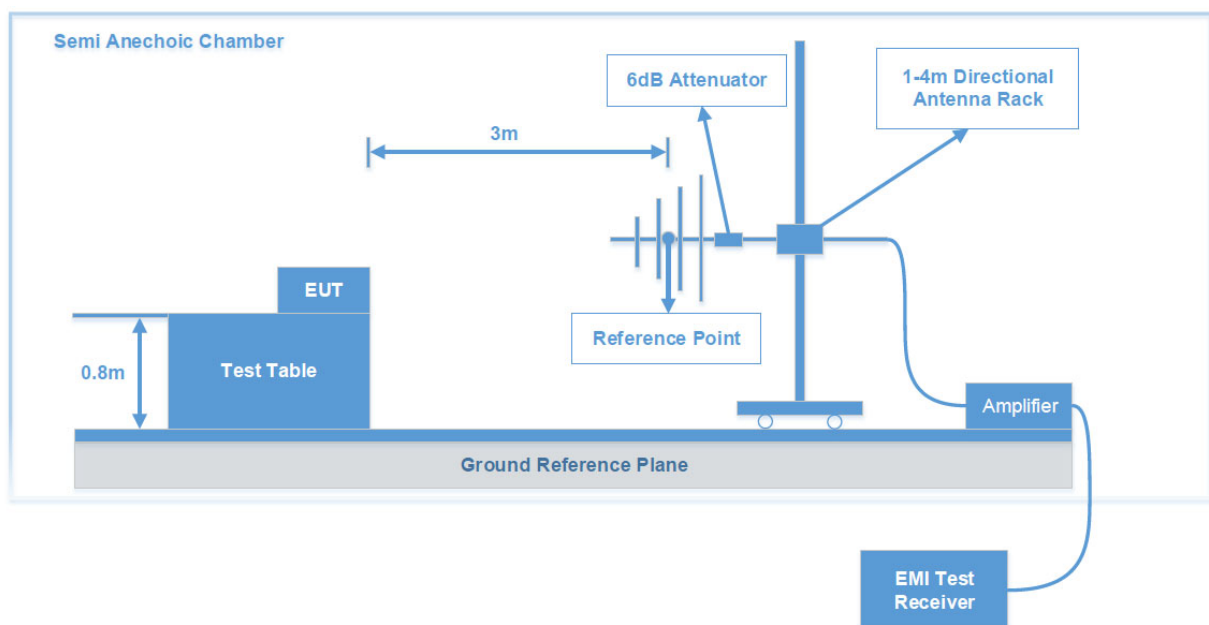


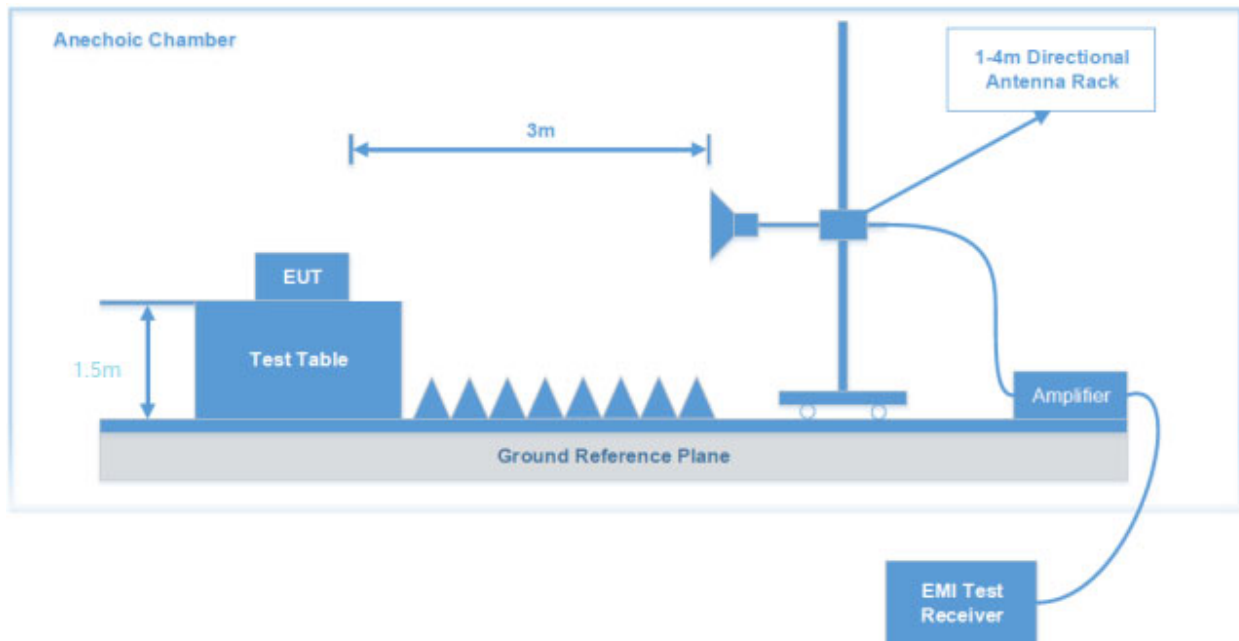
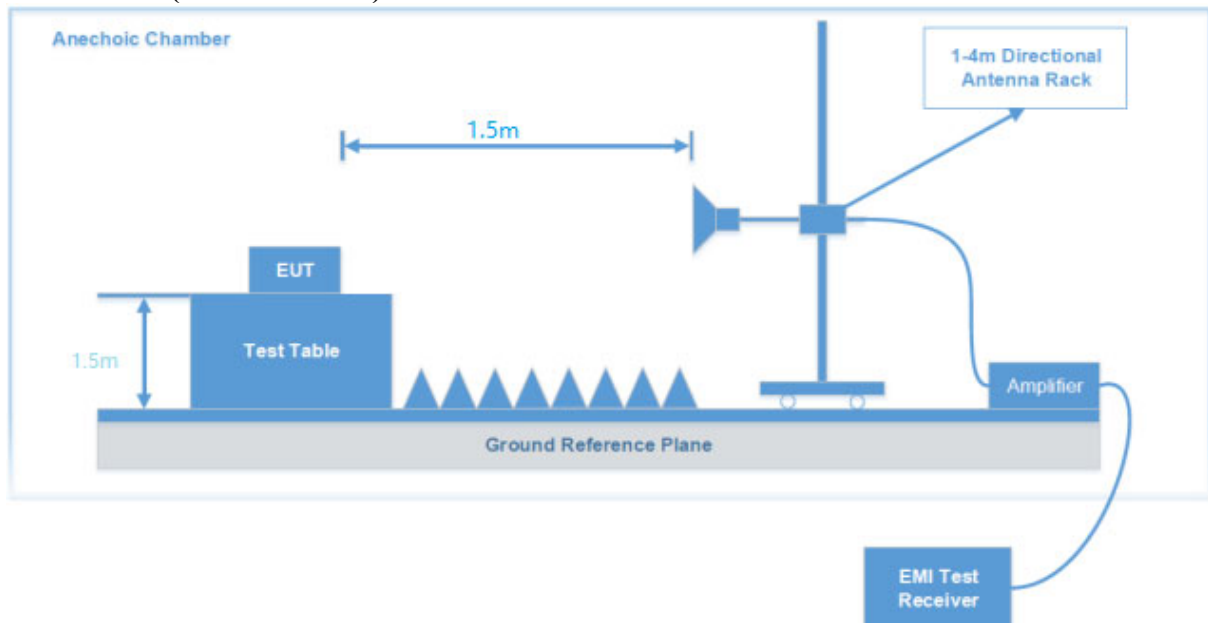
Trace: 1

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.16	0.86	19.48	20.34	55.57	35.23	Neutral	Average
0.16	18.90	19.48	38.38	65.57	27.19	Neutral	QP
0.21	3.82	19.50	23.32	53.13	29.81	Neutral	Average
0.21	15.32	19.50	34.82	63.13	28.31	Neutral	QP
0.53	14.60	19.62	34.22	46.00	11.78	Neutral	Average
0.53	19.63	19.62	39.25	56.00	16.75	Neutral	QP
0.85	-0.06	19.61	19.55	46.00	26.45	Neutral	Average
0.85	4.01	19.61	23.62	56.00	32.38	Neutral	QP
18.62	-3.64	19.88	16.24	50.00	33.76	Neutral	Average
18.62	3.16	19.88	23.04	60.00	36.96	Neutral	QP
24.14	1.92	20.19	22.11	50.00	27.89	Neutral	Average
24.14	6.48	20.19	26.67	60.00	33.33	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 (1 GHz~18 GHz)**Above 1GHz (18 GHz~40GHz)**

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/AV
150 kHz – 30 MHz	10 kHz	30 kHz	/	PK
	/	/	9kHz	QP/AV
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:	22.3°C	22.5°C~23.5°C
Relative Humidity:	55 %	54%~58%
ATM Pressure:	101kPa	100.8kPa~101.0kPa
Test Date:	2024-06-04	2024-07-01~2024-07-15
Test Engineer:	Stein Peng	Stein Peng, 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.

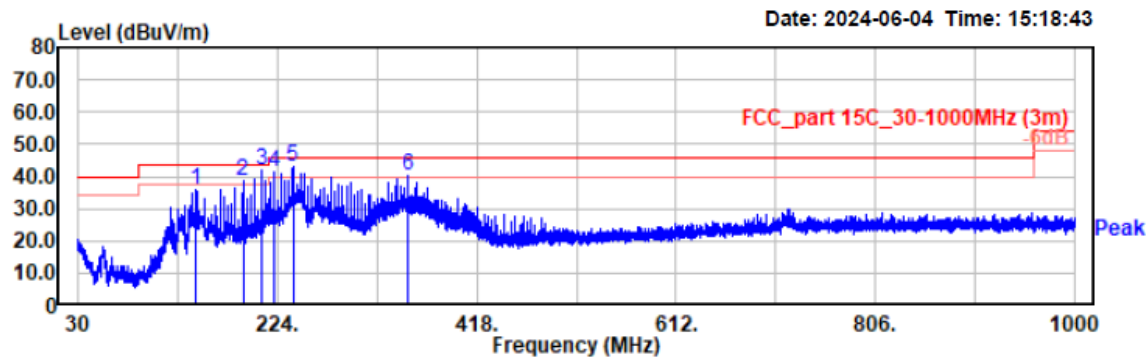
2) 30 MHz-1GHz

For Wifi

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

Project No.: 2407S72267E-RF
Test Mode: Wifi 802.11b 2412
EUT Model: Su3
Test distance: 3m

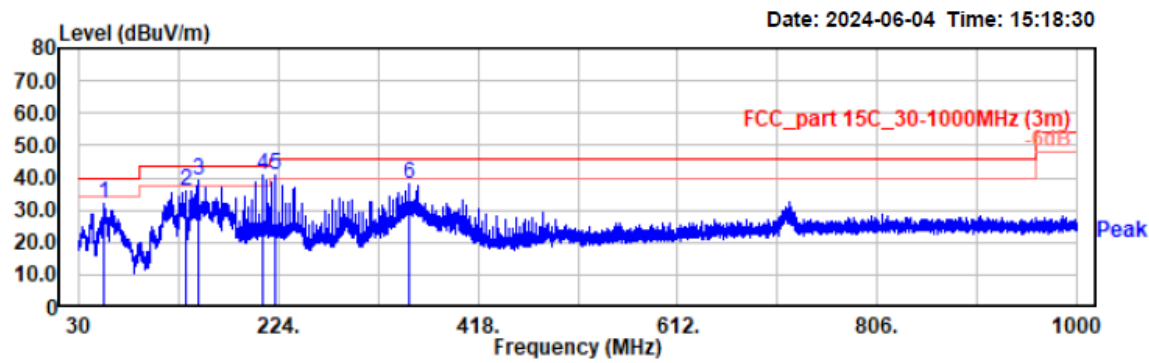
Temp/Humi: 22.3°C/55%
Tested by: Stein Peng
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
143.98	47.08	-10.98	36.10	43.50	7.40	Horizontal	QP
190.34	50.80	-12.25	38.55	43.50	4.95	Horizontal	QP
209.06	54.29	-12.52	41.77	43.50	1.73	Horizontal	QP
220.22	53.78	-12.64	41.14	46.00	4.86	Horizontal	QP
238.94	54.56	-11.76	42.80	46.00	3.20	Horizontal	QP
350.88	48.13	-8.00	40.13	46.00	5.87	Horizontal	QP

Project No.: 2407S72267E-RF
Test Mode: Wifi 802.11b 2412
EUT Model: Su3
Test distance: 3m

Temp/Humi: 22.3°C/55%
Tested by: Stein Peng
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
54.15	49.84	-17.81	32.03	40.00	7.97	Vertical	QP
134.37	46.36	-10.28	36.08	43.50	7.42	Vertical	QP
145.53	50.17	-10.97	39.20	43.50	4.30	Vertical	QP
209.06	53.61	-12.52	41.09	43.50	2.41	Vertical	QP
220.22	53.38	-12.64	40.74	46.00	5.26	Vertical	QP
350.88	46.17	-8.00	38.17	46.00	7.83	Vertical	QP

For BLE

EUT operation mode: Transmitting in BLE high channel in Z-axis of orientation (worst case)

Project No.: 2407S72267E-RF

Test Mode: BLE 2480

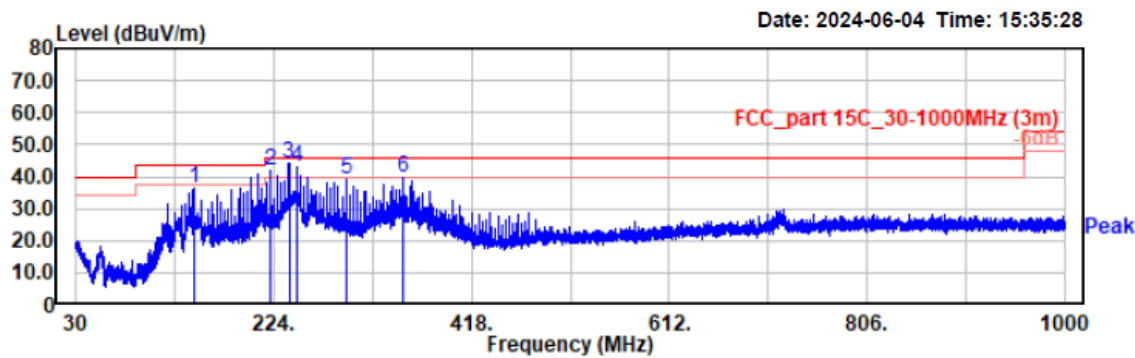
EUT Model: Su3

Test distance: 3m

Temp/Humi: 22.3℃/55%

Tested by: Stein Peng

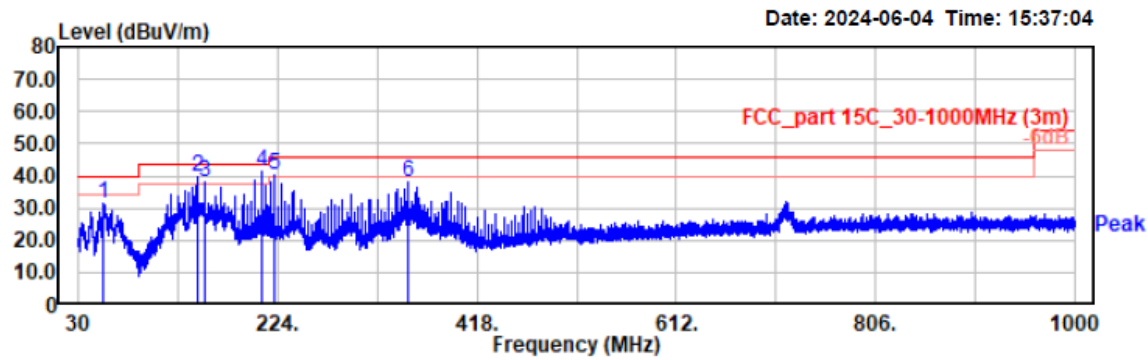
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
145.53	47.61	-10.97	36.64	43.50	6.86	Horizontal	QP
220.22	54.41	-12.64	41.77	46.00	4.23	Horizontal	QP
238.94	55.99	-11.76	44.23	46.00	1.77	Horizontal	QP
246.41	54.60	-11.44	43.16	46.00	2.84	Horizontal	QP
294.91	48.74	-9.31	39.43	46.00	6.57	Horizontal	QP
350.88	47.81	-8.00	39.81	46.00	6.19	Horizontal	QP

Project No.: 2407S72267E-RF
Test Mode: BLE 2480
EUT Model: Su3
Test distance: 3m

Temp/Humi: 22.3°C/55%
Tested by: Stein Peng
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
54.44	49.31	-17.81	31.50	40.00	8.50	Vertical	QP
145.53	50.51	-10.97	39.54	43.50	3.96	Vertical	QP
153.00	49.52	-11.32	38.20	43.50	5.30	Vertical	QP
209.06	53.81	-12.52	41.29	43.50	2.21	Vertical	QP
220.22	52.97	-12.64	40.33	46.00	5.67	Vertical	QP
350.88	46.14	-8.00	38.14	46.00	7.86	Vertical	QP

3) 1GHz~18GHz

For WIFI:

EUT operation mode: Transmitting in Wifi 802.11b low channel

Project No.: 2407S72267E-RF

Test Mode: 802.11b 2412

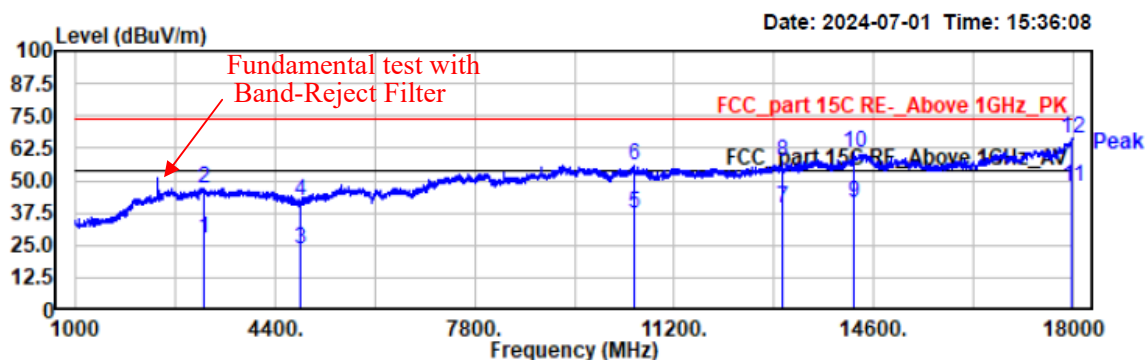
EUT Model: Su3

Test distance: 3m

Temp/Humi: 23.5°C/54%

Tested by: Ash Lin

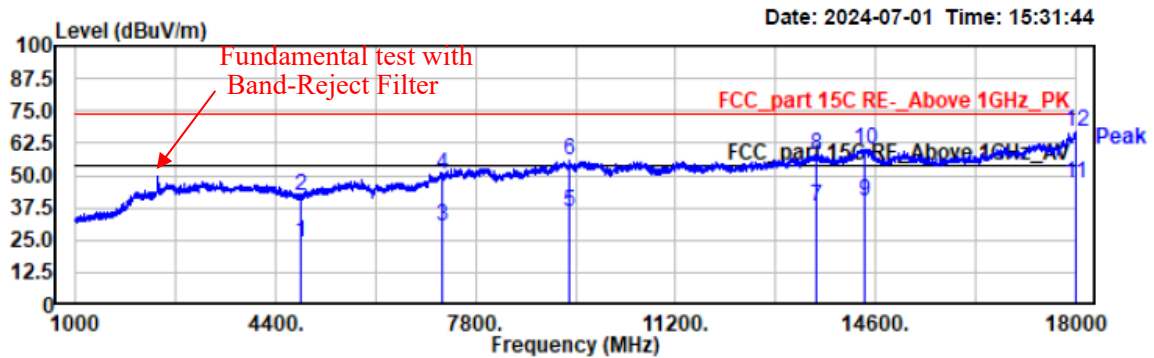
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
3199.80	25.61	2.14	27.75	54.00	26.25	horizontal	Average
3199.80	44.79	2.14	46.93	74.00	27.07	horizontal	Peak
4825.00	25.17	-1.48	23.69	54.00	30.31	horizontal	Average
4825.00	43.82	-1.48	42.34	74.00	31.66	horizontal	Peak
10516.60	27.65	9.44	37.09	54.00	16.91	horizontal	Average
10516.60	46.68	9.44	56.12	74.00	17.88	horizontal	Peak
13056.40	28.45	10.78	39.23	54.00	14.77	horizontal	Average
13056.40	46.13	10.78	56.91	74.00	17.09	horizontal	Peak
14256.60	28.14	13.09	41.23	54.00	12.77	horizontal	Average
14256.60	47.34	13.09	60.43	74.00	13.57	horizontal	Peak
17989.80	28.85	18.94	47.79	54.00	6.21	horizontal	Average
17989.80	47.28	18.94	66.22	74.00	7.78	horizontal	Peak

Project No.: 2407S72267E-RF
Test Mode: 802.11b 2412
EUT Model: Su3
Test distance: 3m

Temp/Humi: 23.5°C/54%
Tested by: Ash Lin
Power Source: AC 120V/60Hz

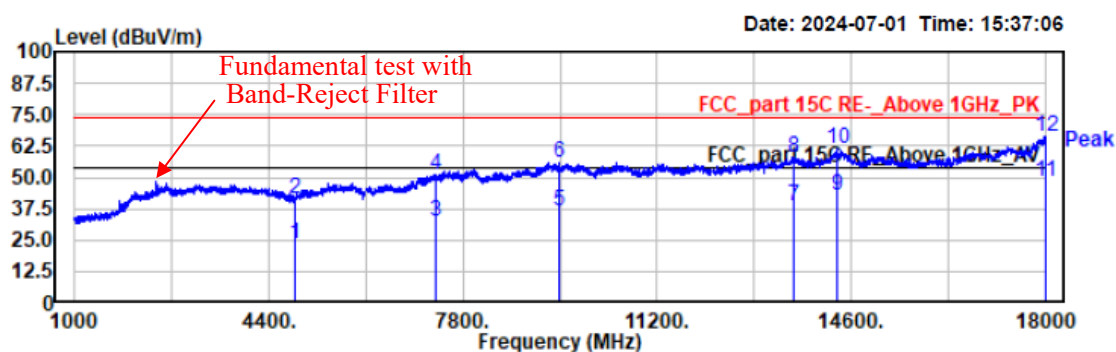


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4824.00	25.32	-1.48	23.84	54.00	30.16	vertical	Average
4824.00	43.51	-1.48	42.03	74.00	31.97	vertical	Peak
7236.00	25.65	4.58	30.23	54.00	23.77	vertical	Average
7236.00	45.67	4.58	50.25	74.00	23.75	vertical	Peak
9404.80	26.56	8.98	35.54	54.00	18.46	vertical	Average
9404.80	46.76	8.98	55.74	74.00	18.26	vertical	Peak
13583.40	26.61	11.62	38.23	54.00	15.77	vertical	Average
13583.40	46.36	11.62	57.98	74.00	16.02	vertical	Peak
14413.00	26.89	13.16	40.05	54.00	13.95	vertical	Average
14413.00	46.99	13.16	60.15	74.00	13.85	vertical	Peak
17996.60	28.16	19.00	47.16	54.00	6.84	vertical	Average
17996.60	47.59	19.00	66.59	74.00	7.41	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11b middle channel

Project No.: 2407S72267E-RF
Test Mode: 802.11b 2437
EUT Model: Su3
Test distance: 3m

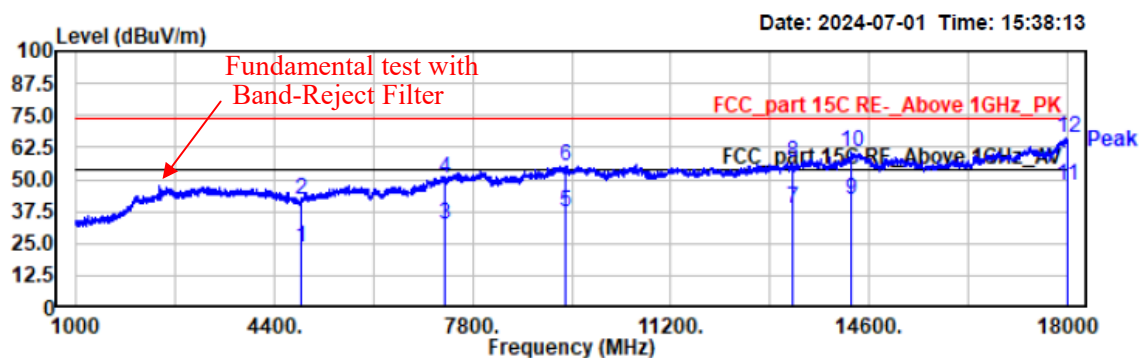
Temp/Humi: 23.5°C/54%
Tested by: Ash Lin
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4872.60	24.65	-0.89	23.76	74.00	50.24	horizontal	Average
4872.60	42.36	-0.89	41.47	74.00	32.53	horizontal	Peak
7311.00	27.63	5.07	32.70	74.00	41.30	horizontal	Average
7311.00	45.71	5.07	50.78	74.00	23.22	horizontal	Peak
9493.20	28.55	8.22	36.77	74.00	37.23	horizontal	Average
9493.20	47.84	8.22	56.06	74.00	17.94	horizontal	Peak
13580.00	27.15	11.62	38.77	74.00	35.23	horizontal	Average
13580.00	46.63	11.62	58.25	74.00	15.75	horizontal	Peak
14368.80	29.15	13.30	42.45	74.00	31.55	horizontal	Average
14368.80	48.08	13.30	61.38	74.00	12.62	horizontal	Peak
17996.60	28.96	19.00	47.96	54.00	6.04	horizontal	Average
17996.60	47.39	19.00	66.39	74.00	7.61	horizontal	Peak

Project No.: 2407S72267E-RF
Test Mode: 802.11b 2437
EUT Model: Su3
Test distance: 3m

Temp/Humi: 23.5°C/54%
Tested by: Ash Lin
Power Source: AC 120V/60Hz

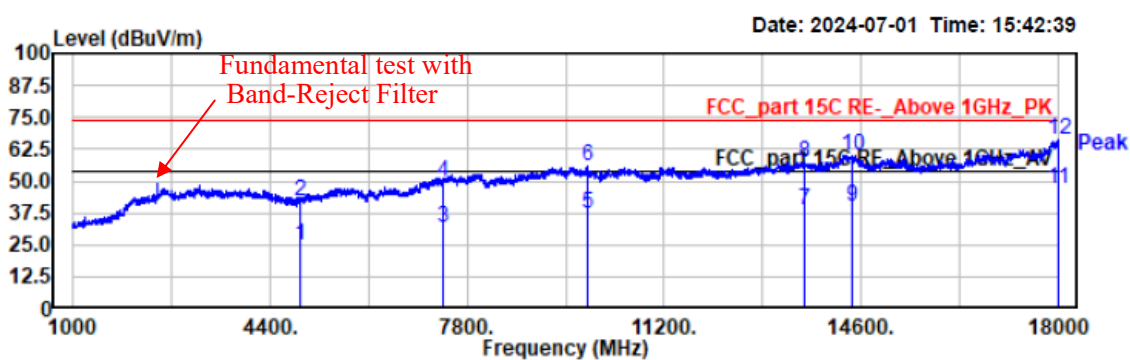


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4872.60	24.15	-0.89	23.26	74.00	50.74	vertical	Average
4872.60	43.12	-0.89	42.23	74.00	31.77	vertical	Peak
7311.00	27.13	5.07	32.20	74.00	41.80	vertical	Average
7311.00	45.11	5.07	50.18	74.00	23.82	vertical	Peak
9394.60	28.54	9.00	37.54	74.00	36.46	vertical	Average
9394.60	46.50	9.00	55.50	74.00	18.50	vertical	Peak
13277.40	27.85	10.77	38.62	74.00	35.38	vertical	Average
13277.40	45.57	10.77	56.34	74.00	17.66	vertical	Peak
14297.40	28.79	13.56	42.35	74.00	31.65	vertical	Average
14297.40	47.28	13.56	60.84	74.00	13.16	vertical	Peak
18000.00	28.53	19.02	47.55	54.00	6.45	vertical	Average
18000.00	47.01	19.02	66.03	74.00	7.97	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11b high channel

Project No.: 2407S72267E-RF
Test Mode: 802.11b 2462
EUT Model: Su3
Test distance: 3m

Temp/Humi: 23.5°C/54%
Tested by: Ash Lin
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4923.60	24.88	-0.16	24.72	54.00	29.28	horizontal	Average
4923.60	42.30	-0.16	42.14	74.00	31.86	horizontal	Peak
7386.00	26.85	5.18	32.03	54.00	21.97	horizontal	Average
7386.00	44.67	5.18	49.85	74.00	24.15	horizontal	Peak
9874.00	28.98	8.30	37.28	54.00	16.72	horizontal	Average
9874.00	47.40	8.30	55.70	74.00	18.30	horizontal	Peak
13631.00	27.31	11.44	38.75	54.00	15.25	horizontal	Average
13631.00	46.10	11.45	57.55	74.00	16.45	horizontal	Peak
14436.80	27.13	13.17	40.30	54.00	13.70	horizontal	Average
14436.80	46.82	13.17	59.99	74.00	14.01	horizontal	Peak
17993.20	28.04	18.96	47.00	54.00	7.00	horizontal	Average
17993.20	47.11	18.96	66.07	74.00	7.93	horizontal	Peak

Project No.: 2407S72267E-RF

Test Mode: 802.11b 2462

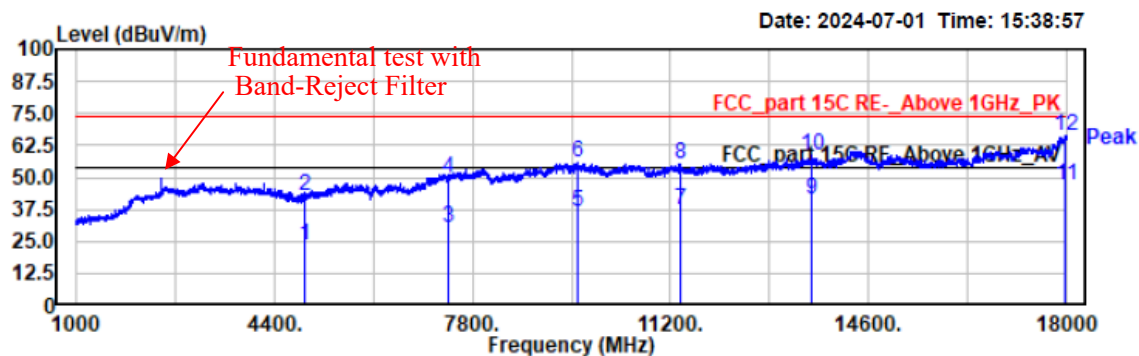
EUT Model: Su3

Test distance: 3m

Temp/Humi: 23.5°C /54%

Tested by: Ash Lin

Power Source: AC 120V/60Hz

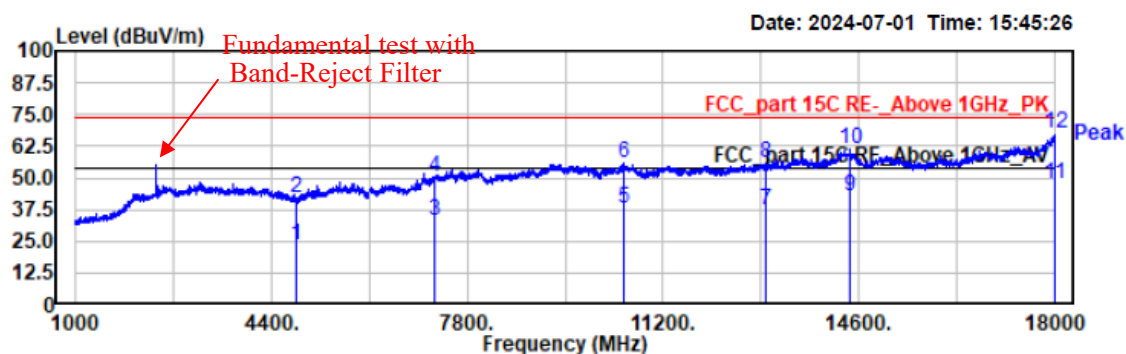


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4923.60	23.74	-0.16	23.58	54.00	30.42	vertical	Average
4923.60	42.78	-0.16	42.62	74.00	31.38	vertical	Peak
7386.00	25.19	5.18	30.37	54.00	23.63	vertical	Average
7386.00	44.71	5.18	49.89	74.00	24.11	vertical	Peak
9615.60	27.46	9.04	36.50	54.00	17.50	vertical	Average
9615.60	46.75	9.04	55.79	74.00	18.21	vertical	Peak
11383.60	27.96	9.60	37.56	54.00	16.44	vertical	Average
11383.60	45.59	9.60	55.19	74.00	18.81	vertical	Peak
13620.80	29.60	11.49	41.09	54.00	12.91	vertical	Average
13620.80	47.16	11.49	58.65	74.00	15.35	vertical	Peak
17986.40	28.11	18.91	47.02	54.00	6.98	vertical	Average
17986.40	47.31	18.91	66.22	74.00	7.78	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11g low channel

Project No.: 2407S72267E-RF
Test Mode: 802.11g 2412
EUT Model: Su3
Test distance: 3m

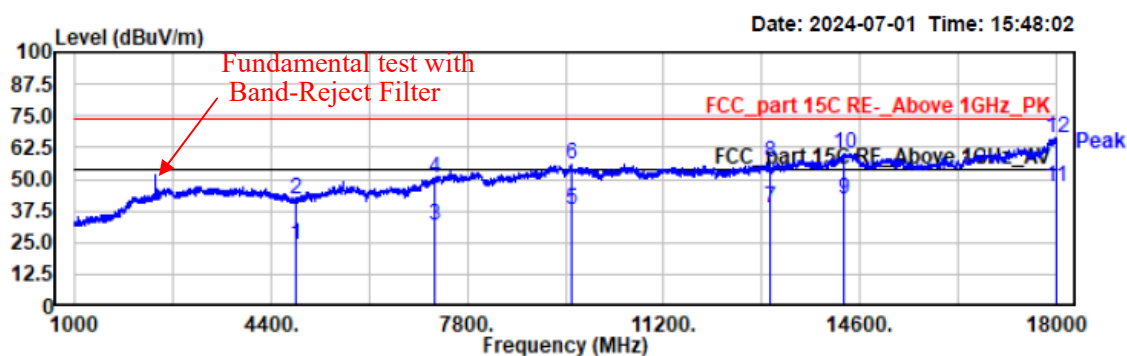
Temp/Humi: 23.5°C/54%
Tested by: Ash Lin
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4825.00	24.78	-1.48	23.30	54.00	30.70	horizontal	Average
4825.00	43.48	-1.48	42.00	74.00	32.00	horizontal	Peak
7236.00	28.28	4.58	32.86	54.00	21.14	horizontal	Average
7236.00	46.03	4.58	50.61	74.00	23.39	horizontal	Peak
10516.60	28.24	9.44	37.68	54.00	16.32	horizontal	Average
10516.60	46.21	9.44	55.65	74.00	18.35	horizontal	Peak
12985.00	26.55	10.89	37.44	54.00	16.56	horizontal	Average
12985.00	44.66	10.89	55.55	74.00	18.45	horizontal	Peak
14440.20	29.43	13.18	42.61	54.00	11.39	horizontal	Average
14440.20	48.04	13.18	61.22	74.00	12.78	horizontal	Peak
18000.00	28.56	19.02	47.58	54.00	6.42	horizontal	Average
18000.00	48.59	19.02	67.61	74.00	6.39	horizontal	Peak

Project No.: 2407S72267E-RF
Test Mode: 802.11g 2412
EUT Model: Su3
Test distance: 3m

Temp/Humi: 23.5°C/54%
Tested by: Ash Lin
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4825.00	25.88	-1.48	24.40	54.00	29.60	vertical	Average
4825.00	43.59	-1.48	42.11	74.00	31.89	vertical	Peak
7236.00	27.07	4.58	31.65	54.00	22.35	vertical	Average
7236.00	45.61	4.58	50.19	74.00	23.81	vertical	Peak
9608.80	28.53	9.14	37.67	54.00	16.33	vertical	Average
9608.80	46.45	9.14	55.59	74.00	18.41	vertical	Peak
13053.00	27.83	10.80	38.63	54.00	15.37	vertical	Average
13053.00	45.68	10.80	56.48	74.00	17.52	vertical	Peak
14334.80	28.49	13.44	41.93	54.00	12.07	vertical	Average
14334.80	46.65	13.44	60.09	74.00	13.91	vertical	Peak
17996.60	28.04	19.00	47.04	54.00	6.96	vertical	Average
17996.60	47.40	19.00	66.40	74.00	7.60	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11g middle channel

Project No.: 2407S72267E-RF

Test Mode: 802.11g 2437

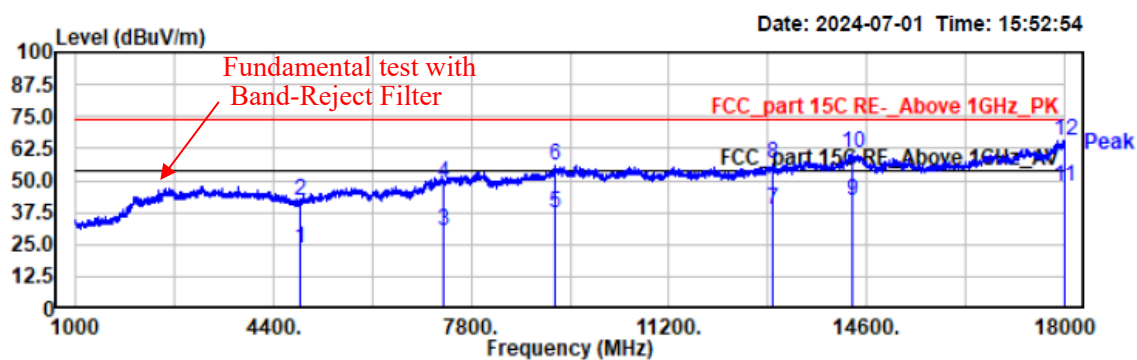
EUT Model: Su3

Test distance: 3m

Temp/Humi: 23.5°C/54%

Tested by: Ash Lin

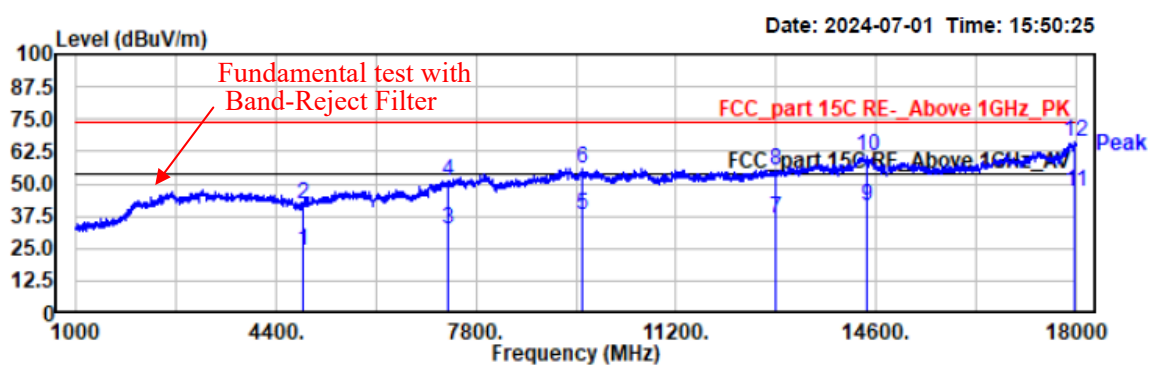
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4872.60	24.52	-0.89	23.63	54.00	30.37	horizontal	Average
4872.60	42.75	-0.89	41.86	74.00	32.14	horizontal	Peak
7311.00	25.10	5.07	30.17	54.00	23.83	horizontal	Average
7311.00	44.20	5.07	49.27	74.00	24.73	horizontal	Peak
9238.20	29.16	7.75	36.91	54.00	17.09	horizontal	Average
9238.20	48.41	7.75	56.16	74.00	17.84	horizontal	Peak
12995.20	27.93	10.93	38.86	54.00	15.14	horizontal	Average
12995.20	45.90	10.93	56.83	74.00	17.17	horizontal	Peak
14341.60	28.57	13.41	41.98	54.00	12.02	horizontal	Average
14341.60	46.96	13.41	60.37	74.00	13.63	horizontal	Peak
17993.20	28.83	18.96	47.79	54.00	6.21	horizontal	Average
17993.20	46.59	18.96	65.55	74.00	8.45	horizontal	Peak

Project No.: 2407S72267E-RF
Test Mode: 802.11g 2437
EUT Model: Su3
Test distance: 3m

Temp/Humi: 23.5°C/54%
Tested by: Ash Lin
Power Source: AC 120V/60Hz

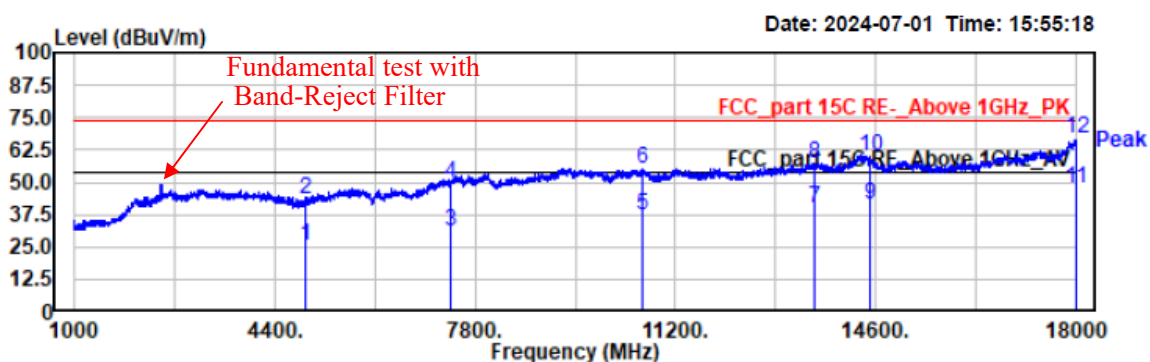


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4872.60	24.83	-0.89	23.94	54.00	30.06	vertical	Average
4872.60	42.78	-0.89	41.89	74.00	32.11	vertical	Peak
7311.00	27.14	5.07	32.21	54.00	21.79	vertical	Average
7311.00	45.71	5.07	50.78	74.00	23.22	vertical	Peak
9605.40	28.47	9.18	37.65	54.00	16.35	vertical	Average
9605.40	46.95	9.18	56.13	74.00	17.87	vertical	Peak
12900.00	26.12	10.56	36.68	54.00	17.32	vertical	Average
12900.00	44.88	10.56	55.44	74.00	18.56	vertical	Peak
14436.80	28.34	13.17	41.51	54.00	12.49	vertical	Average
14436.80	47.43	13.17	60.60	74.00	13.40	vertical	Peak
17986.40	28.33	18.91	47.24	54.00	6.76	vertical	Average
17986.40	47.13	18.91	66.04	74.00	7.96	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11g high channel

Project No.: 2407S72267E-RF
Test Mode: 802.11g 2462
EUT Model: Su3
Test distance: 3m

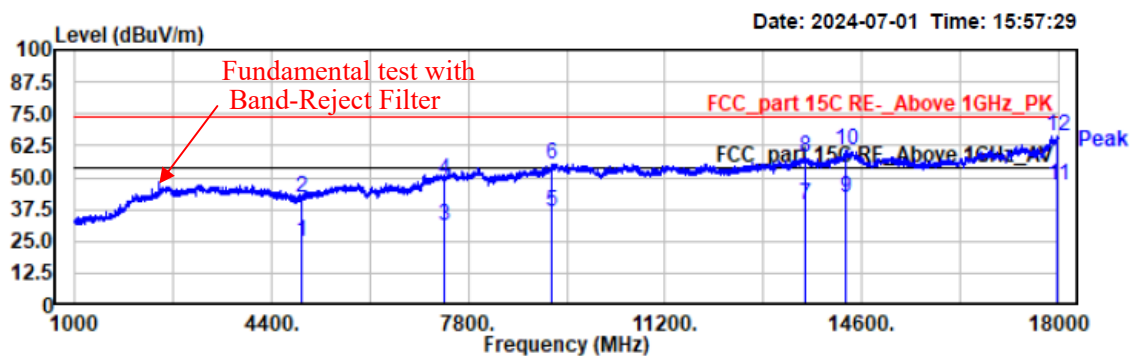
Temp/Humi: 23.5°C/54%
Tested by: Ash Lin
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4923.60	25.90	-0.16	25.74	54.00	28.26	horizontal	Average
4923.60	43.30	-0.16	43.14	74.00	30.86	horizontal	Peak
7386.00	26.03	5.18	31.21	54.00	22.79	horizontal	Average
7386.00	44.19	5.18	49.37	74.00	24.63	horizontal	Peak
10632.20	28.11	9.10	37.21	54.00	16.79	horizontal	Average
10632.20	46.01	9.10	55.11	74.00	18.89	horizontal	Peak
13549.40	28.34	11.65	39.99	54.00	14.01	horizontal	Average
13549.40	45.84	11.65	57.49	74.00	16.51	horizontal	Peak
14504.80	28.46	13.16	41.62	54.00	12.38	horizontal	Average
14504.80	46.64	13.16	59.80	74.00	14.20	horizontal	Peak
18000.00	28.32	19.02	47.34	54.00	6.66	horizontal	Average
18000.00	47.83	19.02	66.85	74.00	7.15	horizontal	Peak

Project No.: 2407S72267E-RF
Test Mode: 802.11g 2462
EUT Model: Su3
Test distance: 3m

Temp/Humi: 23.5°C/54%
Tested by: Ash Lin
Power Source: AC 120V/60Hz

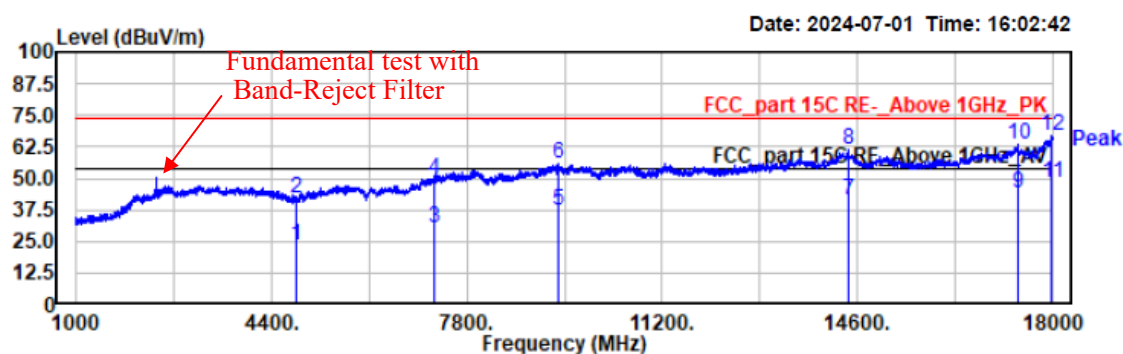


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4923.60	24.65	-0.16	24.49	54.00	29.51	vertical	Average
4923.60	42.17	-0.16	42.01	74.00	31.99	vertical	Peak
7386.00	26.06	5.18	31.24	54.00	22.76	vertical	Average
7386.00	44.10	5.18	49.28	74.00	24.72	vertical	Peak
9248.40	28.90	7.74	36.64	54.00	17.36	vertical	Average
9248.40	47.69	7.74	55.43	74.00	18.57	vertical	Peak
13620.80	28.05	11.49	39.54	54.00	14.46	vertical	Average
13620.80	46.20	11.49	57.69	74.00	16.31	vertical	Peak
14338.20	28.88	13.43	42.31	54.00	11.69	vertical	Average
14338.20	47.18	13.43	60.61	74.00	13.39	vertical	Peak
17989.80	28.26	18.94	47.20	54.00	6.80	vertical	Average
17989.80	47.30	18.94	66.24	74.00	7.76	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11n HT20 low channel

Project No.: 2407S72267E-RF
Test Mode: 802.11n-HT20 2412
EUT Model: Su3
Test distance: 3m

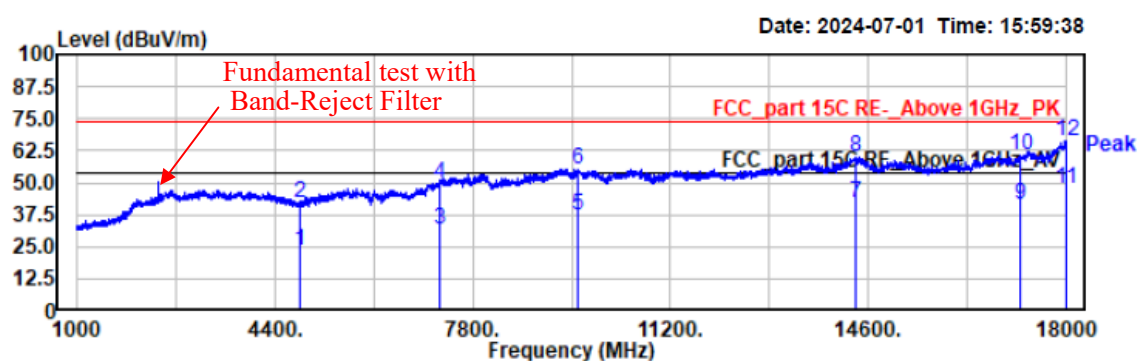
Temp/Humi: 23.5°C/54%
Tested by: Ash Lin
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4825.00	25.16	-1.48	23.68	54.00	30.32	horizontal	Average
4825.00	43.42	-1.48	41.94	74.00	32.06	horizontal	Peak
7236.00	26.03	4.58	30.61	54.00	23.39	horizontal	Average
7236.00	44.81	4.58	49.39	74.00	24.61	horizontal	Peak
9394.60	28.36	9.00	37.36	54.00	16.64	horizontal	Average
9394.60	46.54	9.00	55.54	74.00	18.46	horizontal	Peak
14440.20	28.33	13.18	41.51	54.00	12.49	horizontal	Average
14440.20	47.88	13.18	61.06	74.00	12.94	horizontal	Peak
17384.60	29.56	14.30	43.86	54.00	10.14	horizontal	Average
17384.60	48.95	14.30	63.25	74.00	10.75	horizontal	Peak
17986.40	29.05	18.91	47.96	54.00	6.04	horizontal	Average
17986.40	48.07	18.91	66.98	74.00	7.02	horizontal	Peak

Project No.: 2407S72267E-RF
Test Mode: 802.11n-HT20 2412
EUT Model: Su3
Test distance: 3m

Temp/Humi: 23.5°C/54%
Tested by: Ash Lin
Power Source: AC 120V/60Hz

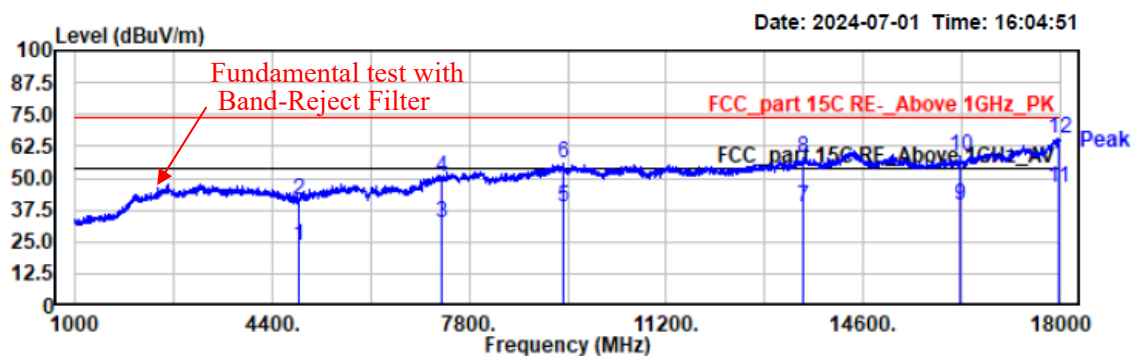


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4825.00	25.23	-1.48	23.75	54.00	30.25	vertical	Average
4825.00	43.42	-1.48	41.94	74.00	32.06	vertical	Peak
7236.00	27.08	4.58	31.66	54.00	22.34	vertical	Average
7236.00	45.34	4.58	49.92	74.00	24.08	vertical	Peak
9608.80	28.27	9.14	37.41	54.00	16.59	vertical	Average
9608.80	46.33	9.14	55.47	74.00	18.53	vertical	Peak
14375.60	28.51	13.26	41.77	54.00	12.23	vertical	Average
14375.60	46.85	13.26	60.11	74.00	13.89	vertical	Peak
17214.60	27.67	13.86	41.53	54.00	12.47	vertical	Average
17214.60	47.00	13.86	60.86	74.00	13.14	vertical	Peak
17993.20	28.57	18.96	47.53	54.00	6.47	vertical	Average
17993.20	47.36	18.96	66.32	74.00	7.68	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11n HT20 middle channel

Project No.: 2407S72267E-RF
Test Mode: 802.11n-HT20 2437
EUT Model: Su3
Test distance: 3m

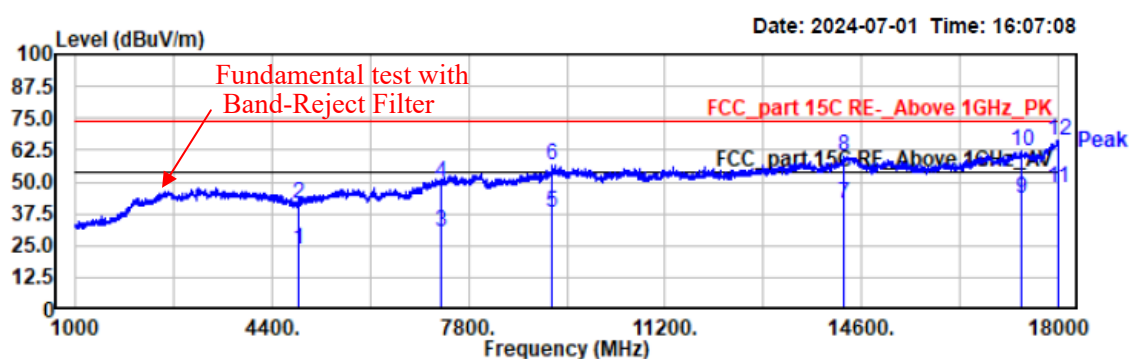
Temp/Humi: 23.5°C/54%
Tested by: Ash Lin
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4872.60	24.34	-0.89	23.45	54.00	30.55	horizontal	Average
4872.60	42.50	-0.89	41.61	74.00	32.39	horizontal	Peak
7311.00	27.03	5.07	32.10	54.00	21.90	horizontal	Average
7311.00	45.09	5.07	50.16	74.00	23.84	horizontal	Peak
9411.60	29.91	8.89	38.80	54.00	15.20	horizontal	Average
9411.60	47.29	8.89	56.18	74.00	17.82	horizontal	Peak
13576.60	27.17	11.62	38.79	54.00	15.21	horizontal	Average
13576.60	46.52	11.62	58.14	74.00	15.86	horizontal	Peak
16259.20	28.96	10.58	39.54	54.00	14.46	horizontal	Average
16259.20	47.90	10.58	58.48	74.00	15.52	horizontal	Peak
17962.60	27.22	18.72	45.94	54.00	8.06	horizontal	Average
17962.60	46.92	18.72	65.64	74.00	8.36	horizontal	Peak

Project No.: 2407S72267E-RF
Test Mode: 802.11n-HT20 2437
EUT Model: Su3
Test distance: 3m

Temp/Humi: 23.5°C/54%
Tested by: Ash Lin
Power Source: AC 120V/60Hz

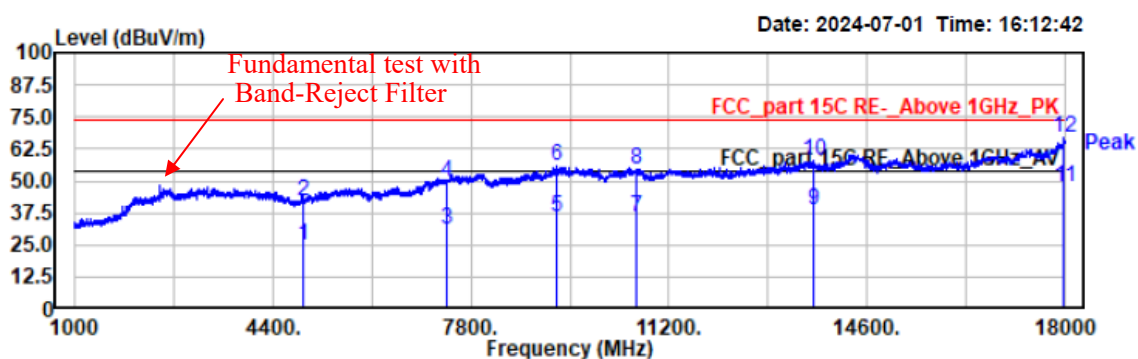


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4872.60	24.37	-0.89	23.48	54.00	30.52	vertical	Average
4872.60	42.03	-0.89	41.14	74.00	32.86	vertical	Peak
7310.40	25.13	5.07	30.20	54.00	23.80	vertical	Average
7310.40	44.30	5.07	49.37	74.00	24.63	vertical	Peak
9238.20	29.94	7.75	37.69	54.00	16.31	vertical	Average
9238.20	48.59	7.75	56.34	74.00	17.66	vertical	Peak
14294.00	28.18	13.52	41.70	54.00	12.30	vertical	Average
14294.00	46.72	13.52	60.24	74.00	13.76	vertical	Peak
17354.00	28.86	14.25	43.11	54.00	10.89	vertical	Average
17354.00	47.79	14.25	62.04	74.00	11.96	vertical	Peak
18000.00	28.32	19.02	47.34	54.00	6.66	vertical	Average
18000.00	47.43	19.02	66.45	74.00	7.55	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11n HT20 high channel

Project No.: 2407S72267E-RF
Test Mode: 802.11n-HT20 2462
EUT Model: Su3
Test distance: 3m

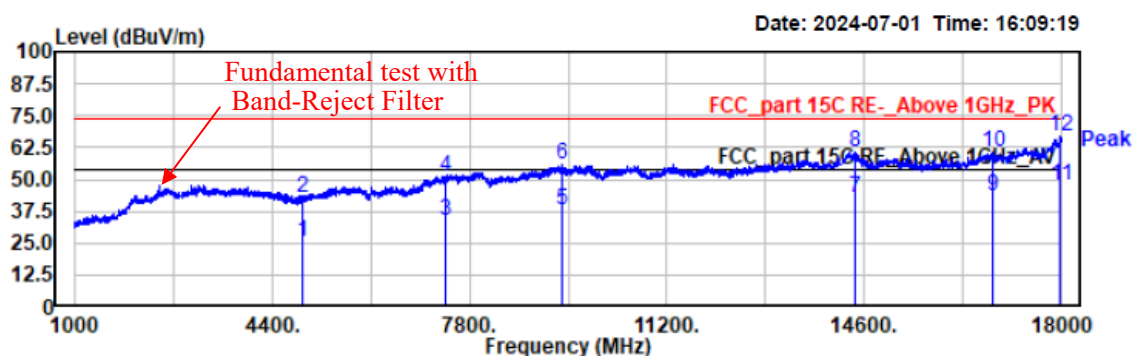
Temp/Humi: 23.5°C/54%
Tested by: Ash Lin
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4923.60	24.96	-0.16	24.80	54.00	29.20	horizontal	Average
4923.60	41.91	-0.16	41.75	74.00	32.25	horizontal	Peak
7386.00	26.14	5.18	31.32	54.00	22.68	horizontal	Average
7386.00	44.20	5.18	49.38	74.00	24.62	horizontal	Peak
9268.80	28.04	7.92	35.96	54.00	18.04	horizontal	Average
9268.80	47.70	7.92	55.62	74.00	18.38	horizontal	Peak
10642.40	26.92	9.12	36.04	54.00	17.96	horizontal	Average
10642.40	45.09	9.12	54.21	74.00	19.79	horizontal	Peak
13699.00	27.84	11.08	38.92	54.00	15.08	horizontal	Average
13699.00	46.55	11.09	57.64	74.00	16.36	horizontal	Peak
17989.80	28.63	18.94	47.57	54.00	6.43	horizontal	Average
17989.80	47.66	18.94	66.60	74.00	7.40	horizontal	Peak

Project No.: 2407S72267E-RF
Test Mode: 802.11n-HT20 2462
EUT Model: Su3
Test distance: 3m

Temp/Humi: 23.5°C/54%
Tested by: Ash Lin
Power Source: AC 120V/60Hz

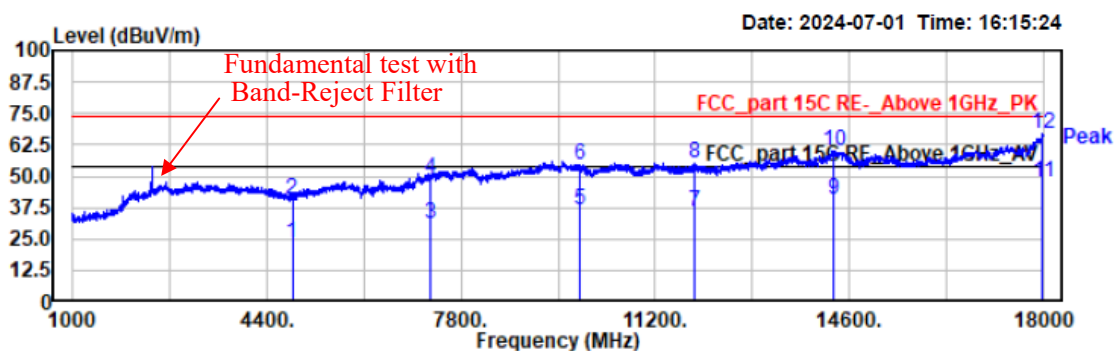


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4923.60	25.47	-0.16	25.31	54.00	28.69	vertical	Average
4923.60	43.06	-0.16	42.90	74.00	31.10	vertical	Peak
7386.00	28.51	5.18	33.69	54.00	20.31	vertical	Average
7386.00	45.64	5.18	50.82	74.00	23.18	vertical	Peak
9384.40	29.18	8.88	38.06	54.00	15.94	vertical	Average
9384.40	47.02	8.88	55.90	74.00	18.10	vertical	Peak
14436.80	29.51	13.17	42.68	54.00	11.32	vertical	Average
14436.80	47.35	13.17	60.52	74.00	13.48	vertical	Peak
16806.60	29.83	13.60	43.43	54.00	10.57	vertical	Average
16806.60	47.02	13.60	60.62	74.00	13.38	vertical	Peak
17983.00	29.01	18.89	47.90	54.00	6.10	vertical	Average
17983.00	48.35	18.89	67.24	74.00	6.76	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11 n HT40 low channel

Project No.: 2407S72267E-RF
Test Mode: 802.11n-HT40 2422
EUT Model: Su3
Test distance: 3m

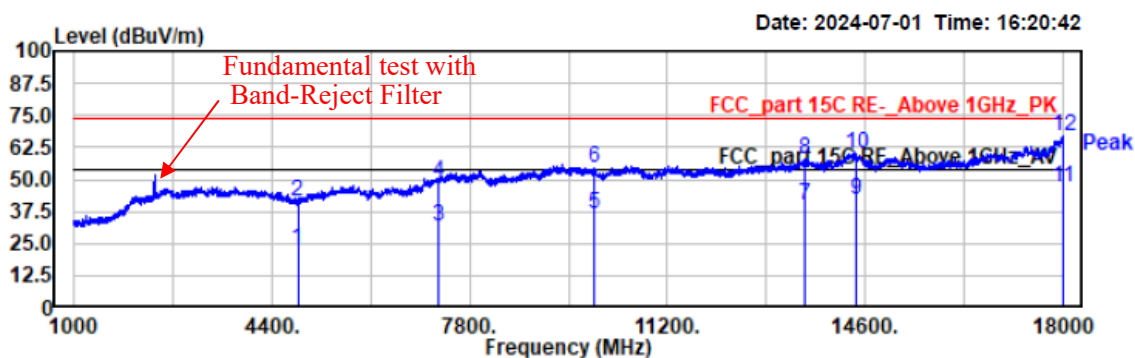
Temp/Humi: 23.5°C/54%
Tested by: Ash Lin
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4845.40	24.73	-1.44	23.29	54.00	30.71	horizontal	Average
4845.40	41.87	-1.44	40.43	74.00	33.57	horizontal	Peak
7266.00	26.04	4.77	30.81	54.00	23.19	horizontal	Average
7266.00	44.40	4.77	49.17	74.00	24.83	horizontal	Peak
9870.60	28.16	8.33	36.49	54.00	17.51	horizontal	Average
9870.60	46.21	8.33	54.54	74.00	19.46	horizontal	Peak
11886.80	26.80	9.19	35.99	54.00	18.01	horizontal	Average
11886.80	45.98	9.19	55.17	74.00	18.83	horizontal	Peak
14328.00	27.50	13.47	40.97	54.00	13.03	horizontal	Average
14328.00	46.35	13.47	59.82	74.00	14.18	horizontal	Peak
17986.40	28.76	18.91	47.67	54.00	6.33	horizontal	Average
17986.40	47.98	18.91	66.89	74.00	7.11	horizontal	Peak

Project No.: 2407S72267E-RF
Test Mode: 802.11n-HT40 2422
EUT Model: Su3
Test distance: 3m

Temp/Humi: 23.5°C/54%
Tested by: Ash Lin
Power Source: AC 120V/60Hz

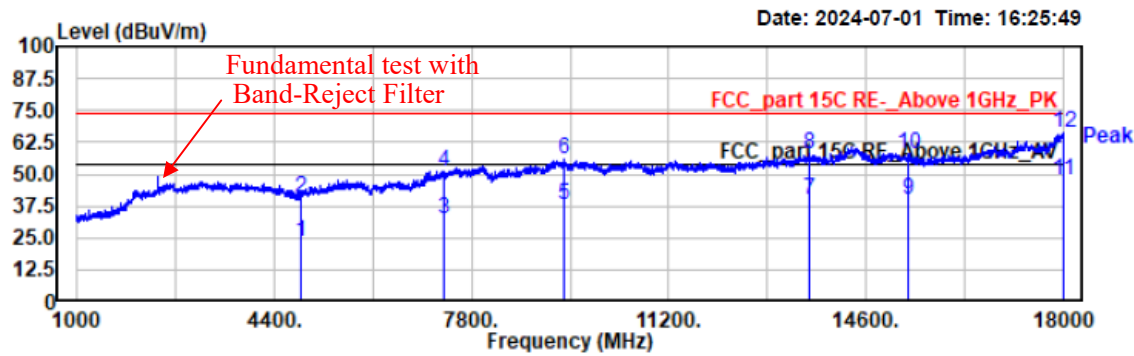


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4845.40	24.32	-1.44	22.88	54.00	31.12	vertical	Average
4845.40	42.53	-1.44	41.09	74.00	32.91	vertical	Peak
7266.00	26.69	4.77	31.46	54.00	22.54	vertical	Average
7266.00	44.27	4.77	49.04	74.00	24.96	vertical	Peak
9931.80	28.59	7.87	36.46	54.00	17.54	vertical	Average
9931.80	46.85	7.87	54.72	74.00	19.28	vertical	Peak
13549.40	28.13	11.65	39.78	54.00	14.22	vertical	Average
13549.40	46.22	11.65	57.87	74.00	16.13	vertical	Peak
14440.20	28.91	13.18	42.09	54.00	11.91	vertical	Average
14440.20	46.88	13.18	60.06	74.00	13.94	vertical	Peak
17996.60	28.02	19.00	47.02	54.00	6.98	vertical	Average
17996.60	47.80	19.00	66.80	74.00	7.20	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11 n HT40 middle channel

Project No.: 2407S72267E-RF
Test Mode: 802.11n-HT40 2437
EUT Model: Su3
Test distance: 3m

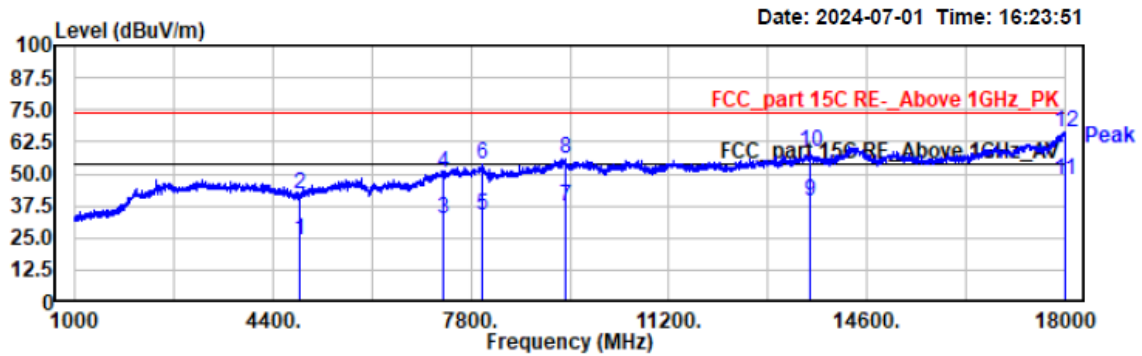
Temp/Humi: 23.5°C/54%
Tested by: Ash Lin
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4872.60	24.65	-0.89	23.76	54.00	30.24	horizontal	Average
4872.60	41.86	-0.89	40.97	74.00	33.03	horizontal	Peak
7311.00	27.39	5.07	32.46	54.00	21.54	horizontal	Average
7311.00	45.83	5.07	50.90	74.00	23.10	horizontal	Peak
9381.00	28.84	8.84	37.68	54.00	16.32	horizontal	Average
9381.00	46.69	8.84	55.53	74.00	18.47	horizontal	Peak
13627.60	28.72	11.46	40.18	54.00	13.82	horizontal	Average
13627.60	46.56	11.46	58.02	74.00	15.98	horizontal	Peak
15331.00	29.72	10.08	39.80	54.00	14.20	horizontal	Average
15331.00	48.17	10.08	58.25	74.00	15.75	horizontal	Peak
17993.20	28.96	18.96	47.92	54.00	6.08	horizontal	Average
17993.20	47.20	18.96	66.16	74.00	7.84	horizontal	Peak

Project No.: 2407S72267E-RF
Test Mode: 802.11n-HT40 2437
EUT Model: Su3
Test distance: 3m

Temp/Humi: 23.5°C/54%
Tested by: Ash Lin
Power Source: AC 120V/60Hz

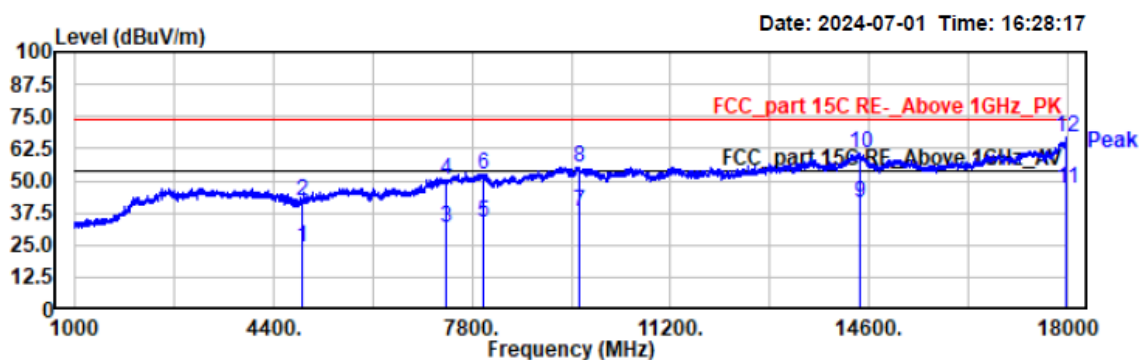


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4872.60	25.37	-0.89	24.48	54.00	29.52	vertical	Average
4872.60	43.03	-0.89	42.14	74.00	31.86	vertical	Peak
7311.00	27.53	5.07	32.60	54.00	21.40	vertical	Average
7311.00	45.44	5.07	50.51	74.00	23.49	vertical	Peak
7983.60	28.09	5.87	33.96	54.00	20.04	vertical	Average
7983.60	47.61	5.87	53.48	74.00	20.52	vertical	Peak
9411.60	28.02	8.89	36.91	54.00	17.09	vertical	Average
9411.60	46.90	8.89	55.79	74.00	18.21	vertical	Peak
13624.20	27.50	11.48	38.98	54.00	15.02	vertical	Average
13624.20	46.94	11.48	58.42	74.00	15.58	vertical	Peak
17993.20	28.44	18.96	47.40	54.00	6.60	vertical	Average
17993.20	47.15	18.96	66.11	74.00	7.89	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11 n HT40 high channel

Project No.: 2407S72267E-RF
Test Mode: 802.11n-HT40 2452
EUT Model: Su3
Test distance: 3m

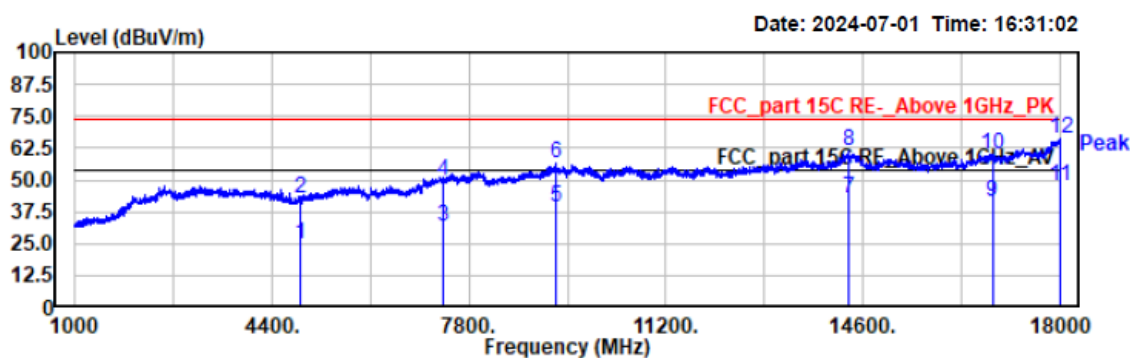
Temp/Humi: 23.5°C/54%
Tested by: Ash Lin
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4903.20	24.16	-0.23	23.93	54.00	30.07	horizontal	Average
4903.20	42.52	-0.23	42.29	74.00	31.71	horizontal	Peak
7356.00	27.02	4.94	31.96	54.00	22.04	horizontal	Average
7356.00	45.10	4.94	50.04	74.00	23.96	horizontal	Peak
7987.00	28.07	5.86	33.93	54.00	20.07	horizontal	Average
7987.00	46.60	5.86	52.46	74.00	21.54	horizontal	Peak
9632.60	28.96	8.82	37.78	54.00	16.22	horizontal	Average
9632.60	46.53	8.82	55.35	74.00	18.65	horizontal	Peak
14443.60	28.08	13.18	41.26	54.00	12.74	horizontal	Average
14443.60	47.40	13.18	60.58	74.00	13.42	horizontal	Peak
17979.60	28.32	18.86	47.18	54.00	6.82	horizontal	Average
17979.60	47.83	18.86	66.69	74.00	7.31	horizontal	Peak

Project No.: 2407S72267E-RF
Test Mode: 802.11n-HT40 2452
EUT Model: Su3
Test distance: 3m

Temp/Humi: 23.5°C/54%
Tested by: Ash Lin
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4903.20	25.12	-0.23	24.89	54.00	29.11	vertical	Average
4903.20	43.01	-0.23	42.78	74.00	31.22	vertical	Peak
7356.00	26.54	4.94	31.48	54.00	22.52	vertical	Average
7356.00	44.75	4.94	49.69	74.00	24.31	vertical	Peak
9313.00	30.78	8.29	39.07	54.00	14.93	vertical	Average
9313.00	48.07	8.29	56.36	74.00	17.64	vertical	Peak
14341.60	29.33	13.41	42.74	54.00	11.26	vertical	Average
14341.60	47.93	13.41	61.34	74.00	12.66	vertical	Peak
16833.80	27.96	13.38	41.34	54.00	12.66	vertical	Average
16833.80	46.50	13.38	59.88	74.00	14.12	vertical	Peak
17993.20	28.67	18.96	47.63	54.00	6.37	vertical	Average
17993.20	47.27	18.96	66.23	74.00	7.77	vertical	Peak

For BLE*EUT operation mode: Transmitting in BLE low channel*

Project No.: 2407S72267E-RF

Test Mode: BLE 2402

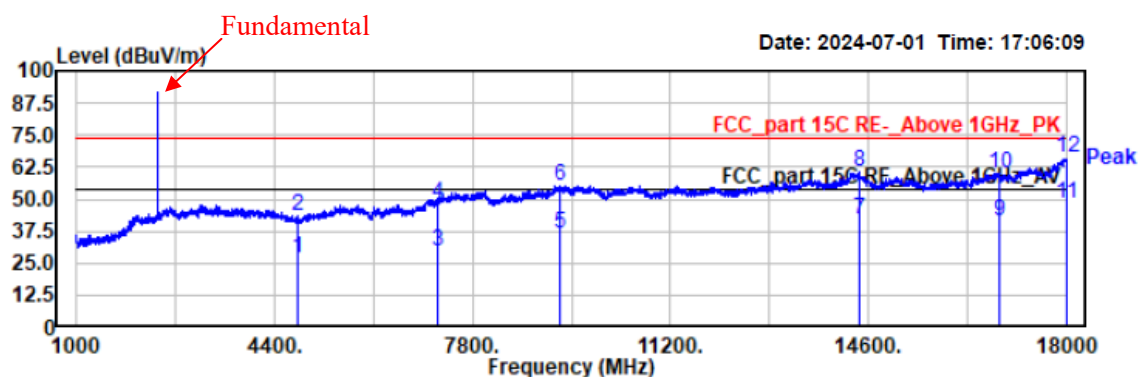
EUT Model: Su3

Test distance: 3m

Temp/Humi: 23.5°C/54%

Tested by: Ash Lin

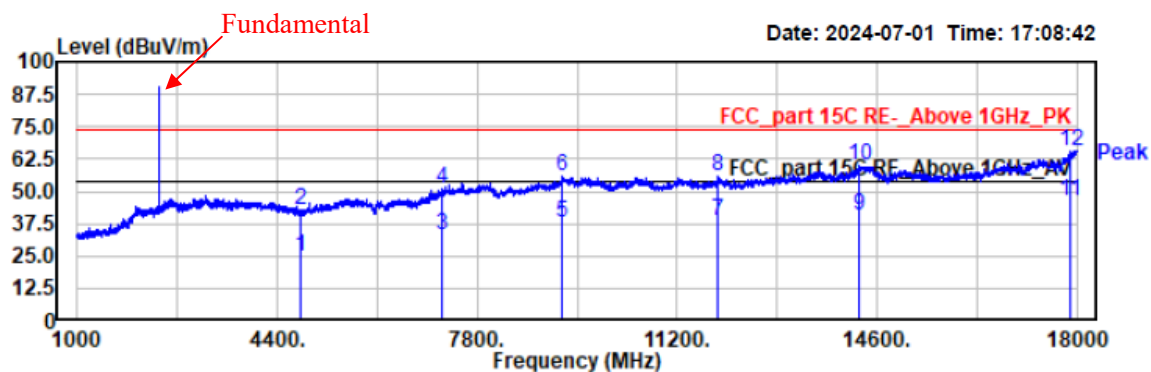
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.60	28.55	-1.51	27.04	54.00	26.96	horizontal	Average
4804.60	44.65	-1.51	43.14	74.00	30.86	horizontal	Peak
7206.00	25.18	4.53	29.71	54.00	24.29	horizontal	Average
7206.00	43.62	4.53	48.15	74.00	25.85	horizontal	Peak
9316.40	28.35	8.30	36.65	54.00	17.35	horizontal	Average
9316.40	46.89	8.30	55.19	74.00	18.81	horizontal	Peak
14447.00	29.18	13.18	42.36	54.00	11.64	horizontal	Average
14447.00	47.62	13.18	60.80	74.00	13.20	horizontal	Peak
16837.20	28.18	13.36	41.54	54.00	12.46	horizontal	Average
16837.20	46.71	13.36	60.07	74.00	13.93	horizontal	Peak
18000.00	28.94	19.02	47.96	54.00	6.04	horizontal	Average
18000.00	47.29	19.02	66.31	74.00	7.69	horizontal	Peak

Project No.: 2407S72267E-RF
Test Mode: BLE 2402
EUT Model: Su3
Test distance: 3m

Temp/Humi: 23.5°C/54%
Tested by: Ash Lin
Power Source: AC 120V/60Hz

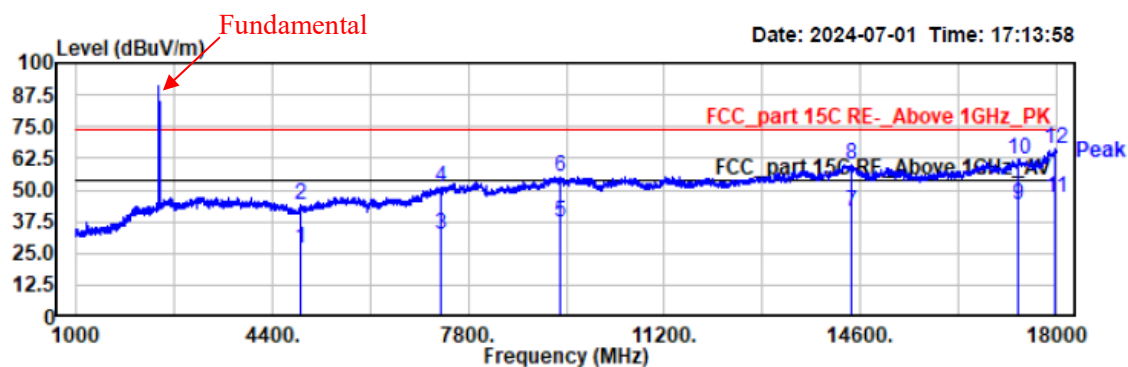


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.60	26.02	-1.51	24.51	54.00	29.49	vertical	Average
4804.60	44.50	-1.51	42.99	74.00	31.01	vertical	Peak
7206.00	28.41	4.53	32.94	54.00	21.06	vertical	Average
7206.00	46.34	4.53	50.87	74.00	23.13	vertical	Peak
9241.60	29.88	7.75	37.63	54.00	16.37	vertical	Average
9241.60	47.78	7.75	55.53	74.00	18.47	vertical	Peak
11890.20	29.14	9.19	38.33	54.00	15.67	vertical	Average
11890.20	47.01	9.19	56.20	74.00	17.80	vertical	Peak
14307.60	27.27	13.56	40.83	54.00	13.17	vertical	Average
14307.60	46.11	13.56	59.67	74.00	14.33	vertical	Peak
17874.20	28.34	17.78	46.12	54.00	7.88	vertical	Average
17874.20	47.83	17.78	65.61	74.00	8.39	vertical	Peak

EUT operation mode: Transmitting in BLE middle channel

Project No.: 2407S72267E-RF
Test Mode: BLE 2440
EUT Model: Su3
Test distance: 3m

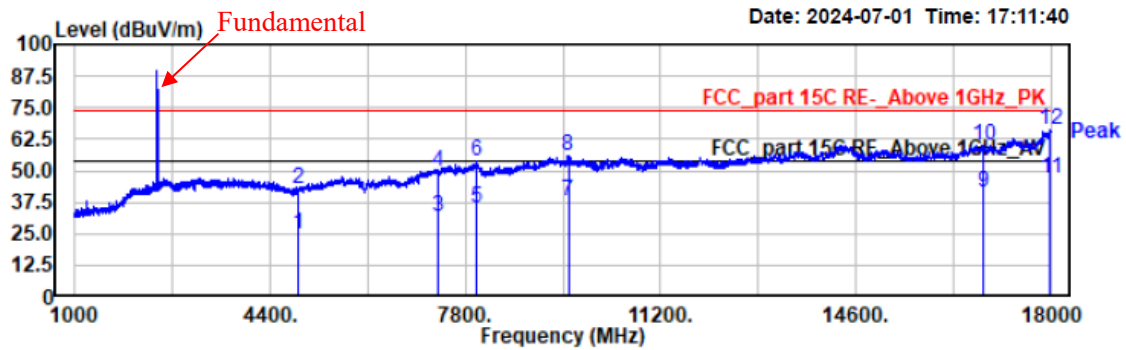
Temp/Humi: 23.5°C/54%
Tested by: Ash Lin
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4879.40	27.63	-0.72	26.91	54.00	27.09	horizontal	Average
4879.40	45.05	-0.72	44.33	74.00	29.67	horizontal	Peak
7320.00	27.36	5.02	32.38	54.00	21.62	horizontal	Average
7320.00	45.77	5.02	50.79	74.00	23.21	horizontal	Peak
9404.80	28.02	8.98	37.00	54.00	17.00	horizontal	Average
9404.80	46.51	8.98	55.49	74.00	18.51	horizontal	Peak
14453.80	28.43	13.18	41.61	54.00	12.39	horizontal	Average
14453.80	47.12	13.18	60.30	74.00	13.70	horizontal	Peak
17347.20	29.59	14.25	43.84	54.00	10.16	horizontal	Average
17347.20	47.76	14.25	62.01	74.00	11.99	horizontal	Peak
17979.60	28.10	18.86	46.96	54.00	7.04	horizontal	Average
17979.60	47.51	18.86	66.37	74.00	7.63	horizontal	Peak

Project No.: 2407S72267E-RF
Test Mode: BLE 2440
EUT Model: Su3
Test distance: 3m

Temp/Humi: 23.5°C/54%
Tested by: Ash Lin
Power Source: AC 120V/60Hz

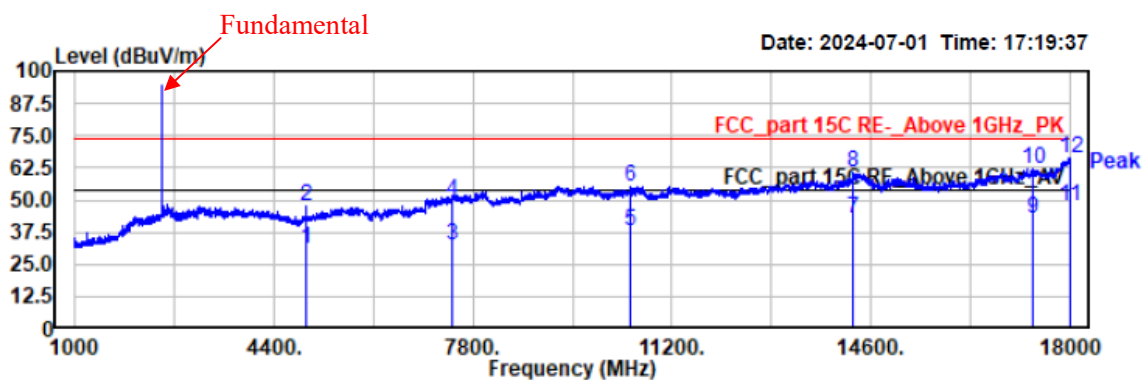


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4879.40	25.36	-0.72	24.64	54.00	29.36	vertical	Average
4879.40	43.43	-0.72	42.71	74.00	31.29	vertical	Peak
7320.00	26.90	5.02	31.92	54.00	22.08	vertical	Average
7320.00	44.49	5.02	49.51	74.00	24.49	vertical	Peak
8000.60	29.55	5.77	35.32	54.00	18.68	vertical	Average
8000.60	47.96	5.77	53.73	74.00	20.27	vertical	Peak
9591.80	28.92	9.12	38.04	54.00	15.96	vertical	Average
9591.80	46.69	9.12	55.81	74.00	18.19	vertical	Peak
16820.20	28.11	13.50	41.61	54.00	12.39	vertical	Average
16820.20	46.81	13.50	60.31	74.00	13.69	vertical	Peak
17989.80	28.25	18.94	47.19	54.00	6.81	vertical	Average
17989.80	47.12	18.94	66.06	74.00	7.94	vertical	Peak

EUT operation mode: Transmitting in BLE high channel

Project No.: 2407S72267E-RF
Test Mode: BLE 2480
EUT Model: Su3
Test distance: 3m

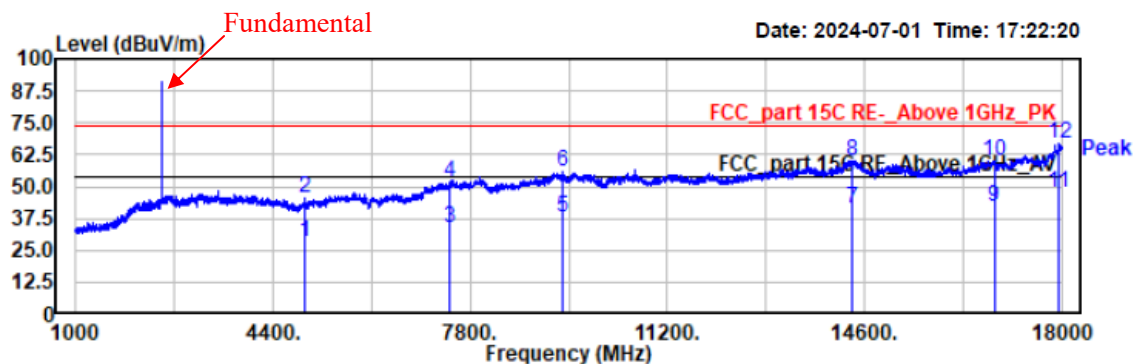
Temp/Humi: 23.5°C/54%
Tested by: Ash Lin
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4957.60	30.99	-0.03	30.96	54.00	23.04	horizontal	Average
4957.60	47.90	-0.03	47.87	74.00	26.13	horizontal	Peak
7440.00	26.33	5.90	32.23	54.00	21.77	horizontal	Average
7440.00	44.04	5.90	49.94	74.00	24.06	horizontal	Peak
10479.20	28.60	9.34	37.94	54.00	16.06	horizontal	Average
10479.20	46.12	9.34	55.46	74.00	18.54	horizontal	Peak
14304.20	29.43	13.58	43.01	54.00	10.99	horizontal	Average
14304.20	47.14	13.58	60.72	74.00	13.28	horizontal	Peak
17367.60	28.50	14.28	42.78	54.00	11.22	horizontal	Average
17367.60	47.75	14.28	62.03	74.00	11.97	horizontal	Peak
17993.20	28.69	18.96	47.65	54.00	6.35	horizontal	Average
17993.20	47.56	18.96	66.52	74.00	7.48	horizontal	Peak

Project No.: 2407S72267E-RF
Test Mode: BLE 2480
EUT Model: Su3
Test distance: 3m

Temp/Humi: 23.5°C/54%
Tested by: Ash Lin
Power Source: AC 120V/60Hz

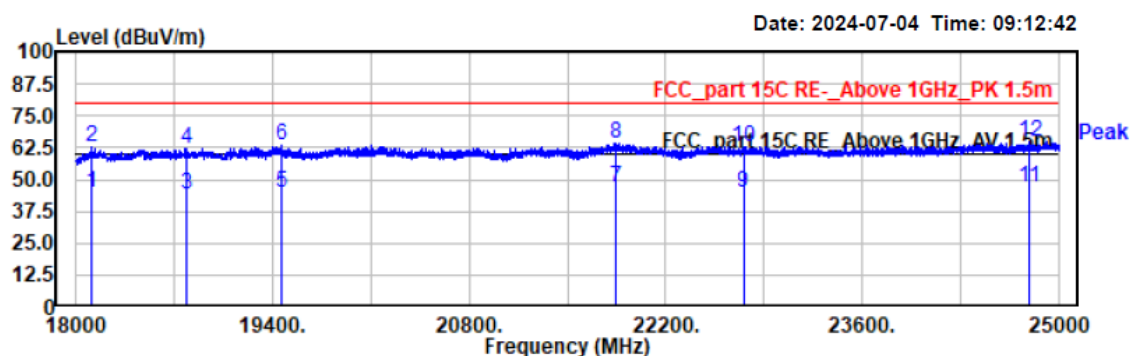


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4957.60	28.20	-0.03	28.17	54.00	25.83	vertical	Average
4957.60	45.82	-0.03	45.79	74.00	28.21	vertical	Peak
7440.00	27.56	5.90	33.46	54.00	20.54	vertical	Average
7440.00	45.67	5.90	51.57	74.00	22.43	vertical	Peak
9394.60	28.96	9.00	37.96	54.00	16.04	vertical	Average
9394.60	47.10	9.00	56.10	74.00	17.90	vertical	Peak
14389.20	28.04	13.20	41.24	54.00	12.76	vertical	Average
14389.20	46.90	13.20	60.10	74.00	13.90	vertical	Peak
16833.80	28.65	13.38	42.03	54.00	11.97	vertical	Average
16833.80	46.47	13.38	59.85	74.00	14.15	vertical	Peak
17935.40	29.35	18.51	47.86	54.00	6.14	vertical	Average
17935.40	48.23	18.51	66.74	74.00	7.26	vertical	Peak

4) 18GHz~25GHz**For BLE:***EUT operation mode: Transmitting in BLE high channel (Worst Case)*

Project No.: 2407S72267E-RF
Test Mode: BLE 2480
EUT Model: Su3
Test distance: 1.5m

Temp/Humi: 22.5°C/58%
Tested by: Ash Lin
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
18108.90	20.68	24.12	44.80	60.00	15.20	horizontal	Average
18108.90	38.57	24.12	62.69	80.00	17.31	horizontal	Peak
18786.50	19.67	24.48	44.15	60.00	15.85	horizontal	Average
18786.50	37.76	24.48	62.24	80.00	17.76	horizontal	Peak
19463.00	20.17	24.60	44.77	60.00	15.23	horizontal	Average
19463.00	38.72	24.60	63.32	80.00	16.68	horizontal	Peak
21850.00	20.82	25.90	46.72	60.00	13.28	horizontal	Average
21850.00	38.08	25.90	63.98	80.00	16.02	horizontal	Peak
22753.10	18.43	26.21	44.64	60.00	15.36	horizontal	Average
22753.10	36.75	26.21	62.96	80.00	17.04	horizontal	Peak
24784.80	18.66	28.46	47.12	60.00	12.88	horizontal	Average
24784.80	36.07	28.46	64.53	80.00	15.47	horizontal	Peak