

TEST REPORT

Applicant Name: Grandstream Networks, Inc.
Address: 126 Brookline Ave., 3rd Floor Boston, MA 02215, USA
Report Number: 2501R23076E-EM-00
FCC ID: YZZGCC6020

Test Standard (s)

FCC Part 15, Subpart B (Class A)

Sample Description

Product Type: Multi-Port UC/Network Convergence Gateway
Model No.: GCC6020
Multiple Model(s) No.: N/A
Trade Mark: GRANDSTREAM
Date Received: 2025/03/14
Issue Date: 2025/05/14

Test Result:	Pass [▲]
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▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Carl Lu

Carl Lu
EMC Engineer

Approved By:

Moon Liu

Moon Liu
EMC Supervisor

Note: The information marked # is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2501R23076E-EM-00	Original Report	2025/05/14

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Multi-Port UC/Network Convergence Gateway
Tested Model	GCC6020
Multiple Model(s)	N/A
Voltage Range	AC 100-240 50/60Hz or DC 54V from DC port
Highest operating frequency [#]	1800MHz (Provided by the applicant)
Equipment Class	Class A
Sample number	Sample1(UES150-540280SPA3-OP):2ZRW-2 Sample2(G1707-150W):2ZRW-3 Sample3(BOF-150S54E):2ZRW-1 (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	N/A

Objective

This test report is in accordance with Part 2-Subpart J, Part 15B Subparts A and B of the Federal Communication Commissions rules.

The objective of the manufacturer is to determine the compliance of the EUT with FCC Part 15B.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters. Each test item follows test standards and with no deviation.

Measurement Uncertainty

Item	Frequency Range		Expanded Measurement uncertainty
Conducted Emissions	AC Mains	150 kHz ~30MHz	3.66dB(k=2, 95% level of confidence)
Radiated Disturbance	30MHz~200MHz	Horizontal	5.32dB(k=2, 95% level of confidence)
	30MHz~200MHz	Vertical	5.43dB(k=2, 95% level of confidence)
	200MHz~1000MHz	Horizontal	5.77dB(k=2, 95% level of confidence)
	200MHz~1000MHz	Vertical	5.73dB(k=2, 95% level of confidence)
	1GHz~6GHz	/	5.34dB(k=2, 95% level of confidence)
	6GHz~18GHz	/	5.40dB(k=2, 95% level of confidence)
	18GHz~40GHz	/	5.64dB(k=2, 95% level of confidence)

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.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 715558, the FCC Designation No. : CN5045.

Each test item follows test standards and with no deviation.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in worst case condition.

Test Mode1: Data transmitting+ Full load +Sample1

Test Mode2: Data transmitting+ Full load +Sample2

Test Mode3: Data transmitting+ Full load +Sample3

Test Mode4: Data transmitting+ Full load +Sample1+Adapter

Note: Sample1: Power by UES150-540280SPA3-OP

Sample2: Power by G1707-150W

Sample3: Power by BOF-150S54E

EUT exercise software

No exercise software was used.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
TP-Link	POE Load	PRL-12 1.0	NA
TP-Link	Interface Board (For POE Load)	WLS031339	NA
DELL	PC1	Latitude E6520	DL0ZCS1
DELL	PC2	Latitude E5570	GNDLKC2
POTRON	Optical to electric module	10GBASE-T	N/A
aigo	U disk	U268	YSAU003305X

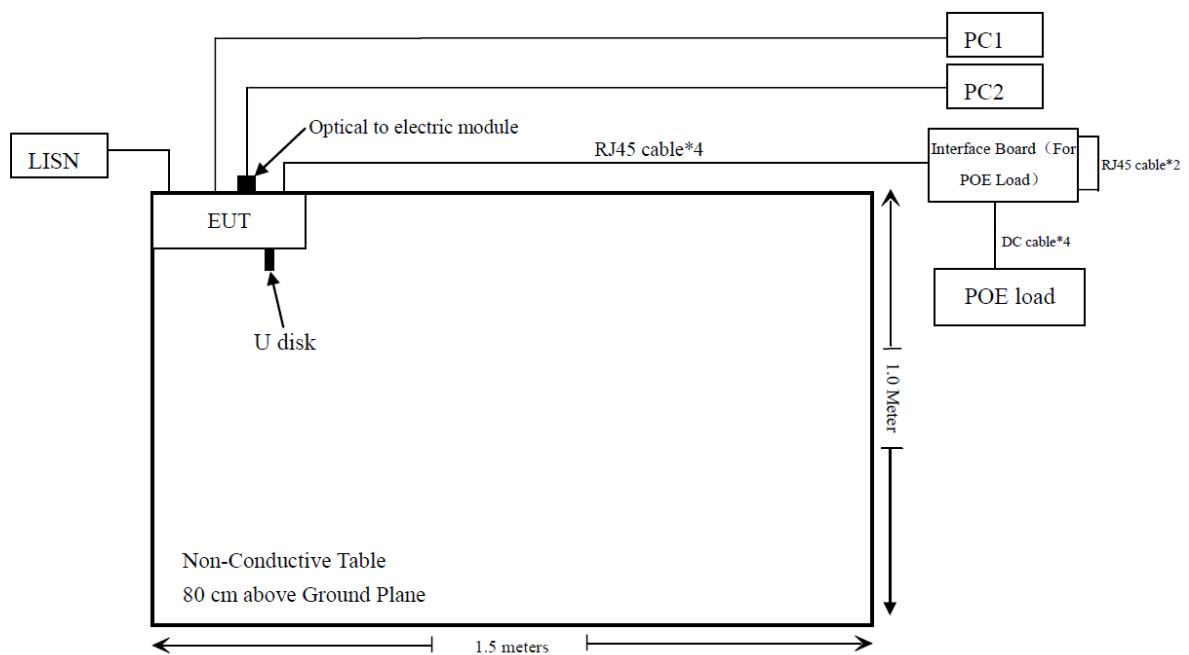
External I/O Cable

Cable Description	Length (m)	From/Port	To
Unshielded detachable AC cable	1.2	EUT	Mains/LISN
Unshielded detachable AC cable	1.2	Mains/LISN	Adapter
Unshielded detachable AC cable	1.5	EUT	Adapter
Unshielded detachable RJ45 cable*4	1.5	EUT	Interface Board (For POE Load)
Unshielded detachable RJ45 cable	10.0	EUT	PC1
Unshielded detachable RJ45 cable	10.0	Optical to electric module	PC2

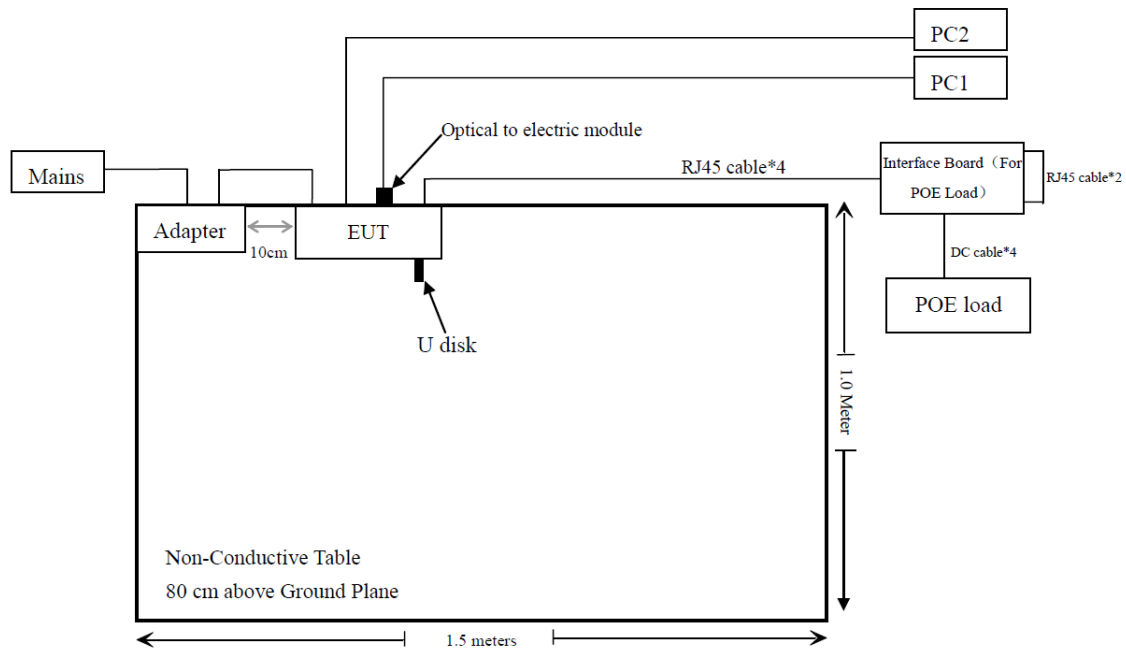
Block Diagram of Test Setup

For Conducted Emission:

Test model 1&2&3:

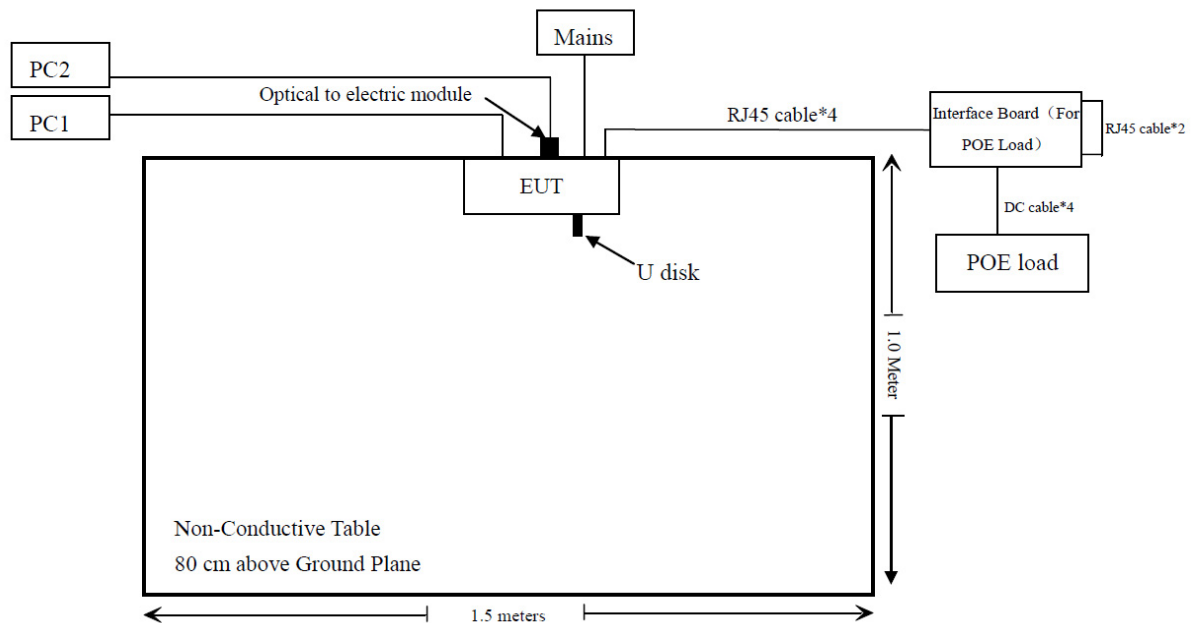


Test Mode 4

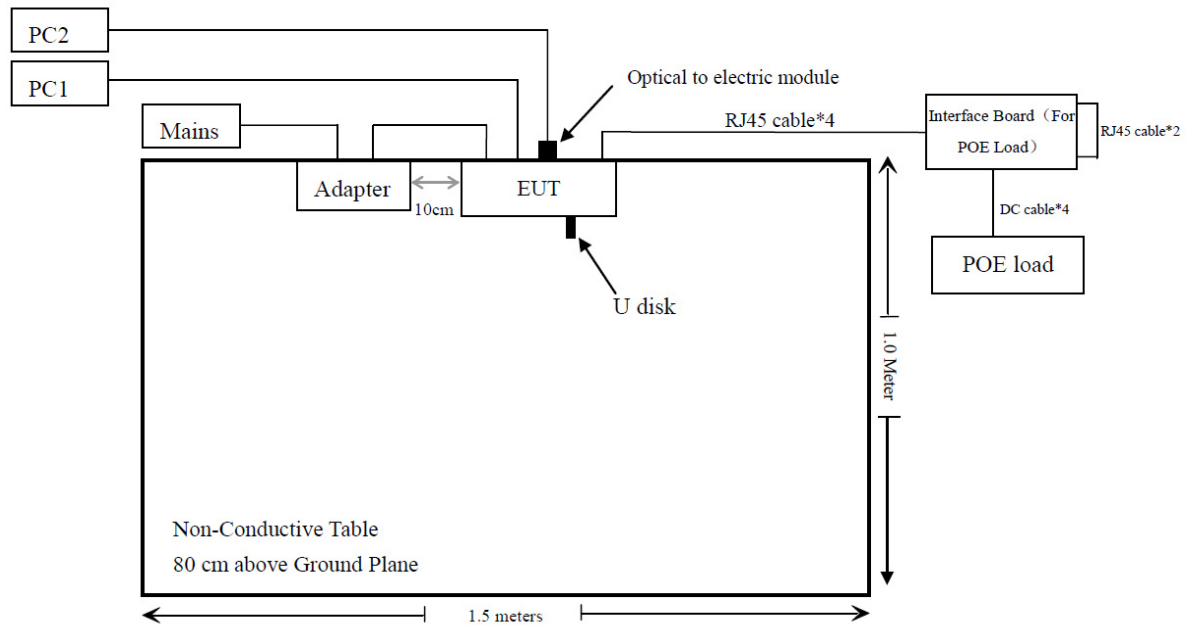


For Radiated Emission:

Test Mode 1&2&3:



Test Mode 4



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§15.107	AC Line Conducted Emissions	Compliant
§15.109	Radiated Emissions	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
AC Line Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2024/12/04	2025/12/03
Rohde & Schwarz	LISN	ENV216	101613	2024/12/04	2025/12/03
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2024/05/21	2025/05/20
Unknown	CE Cable	Unknown	UF A210B-1-0720-504504	2024/05/21	2025/05/20
Audix	EMI Test software	E3	191218(V9)	NCR	NCR
Radiated Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2024/12/04	2025/12/03
Sonoma instrument	Pre-amplifier	310 N	186238	2024/05/21	2025/05/20
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19
Unknown	Cable	Chamber A Cable 1	N/A	2024/06/18	2025/06/17
Unknown	Cable	XH500C	J-10M-A	2024/06/18	2025/06/17
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2025/03/26	2026/03/25
A.H.System	Preamplifier	PAM-0118P	489	2024/11/15	2025/11/14
Schwarzbeck	Horn Antenna	BBHA9120D (1201)	1143	2023/07/26	2026/07/25
Unknown	RF Cable	KMSE	735	2024/12/06	2025/12/05
Unknown	RF Cable	UFA147	219661	2024/12/06	2025/12/05
Audix	EMI Test software	E3	191218(V9)	NCR	NCR

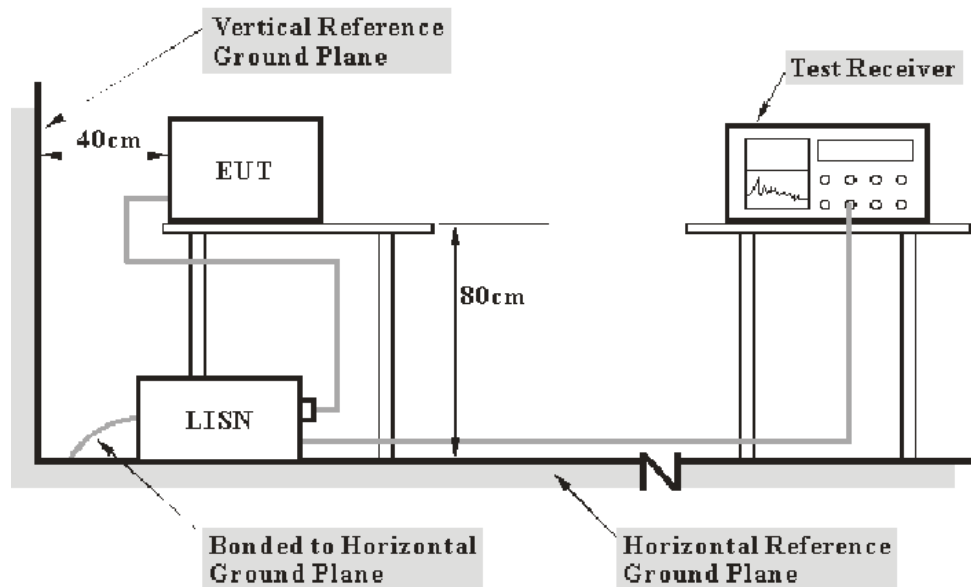
* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.107 - AC LINE CONDUCTED EMISSIONS

Applicable Standard

According to FCC§15.107

EUT Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with ANSI C63.4-2014. The related limit was specified in FCC Part 15.107.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

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
150 kHz – 30 MHz	9 kHz

Test Procedure

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 & Over Limit Calculation

The Level is calculated by adding the LISN Factor, Cable Loss and the Read Level. The basic equation is as follows:

$$\text{Level (dBuV)} = \text{Read Level (dBuV)} + \text{LISN Factor} + \text{Cable Loss}$$

The “**Over limit**” column of the following data tables indicates the degree of compliance with the applicable limit.

$$\text{Over Limit (dB)} = \text{Level (dBuV)} - \text{Limit Line (dBuV)}$$

Note: The term "cable loss" refers to the combination of a cable and a 10dB transient limiter (attenuator).

Test Data

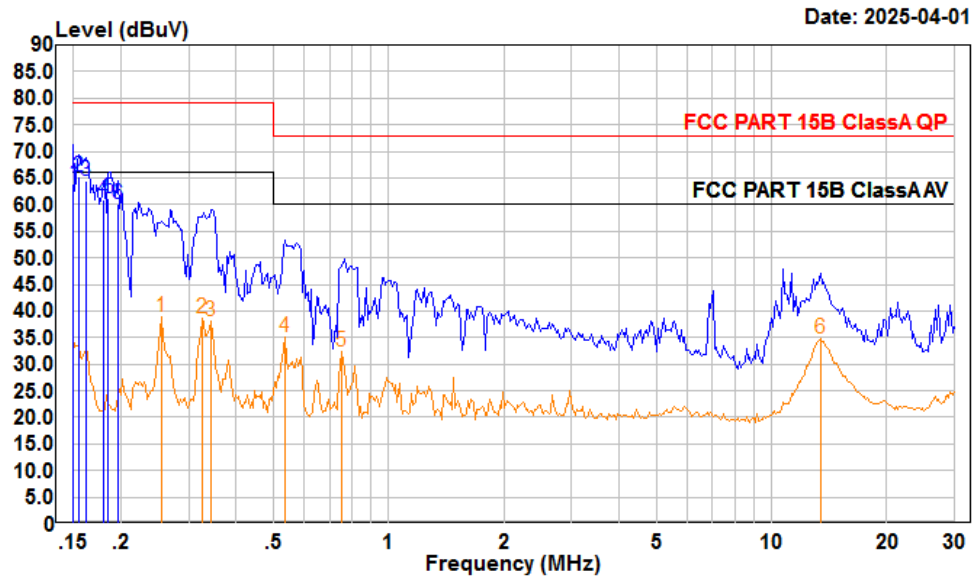
Environmental Conditions

Temperature:	21.4°C
Relative Humidity:	46 %
ATM Pressure:	101.2 kPa

The testing was performed by Macy Shi on 2025-04-01.

Test Mode 1

AC 120V/60 Hz, Line



Condition: Line

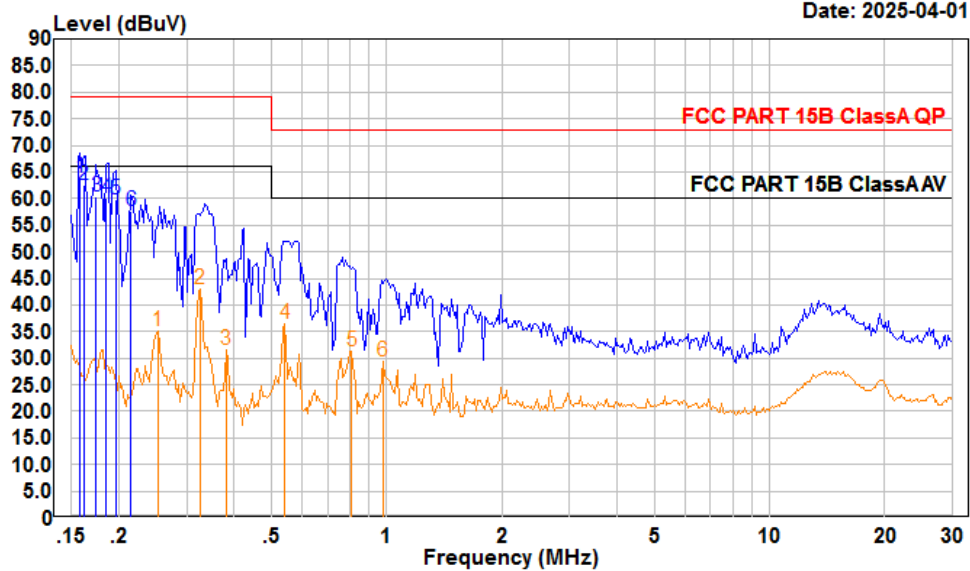
Project : 2501R23076E-EM

test Mode: Model1

tester : Macy.shi Setting:RBW:9kHz

	Freq	Read Level	LISN Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.150	43.40	63.93	10.40	10.13	79.00	-15.07	QP
2	0.155	44.81	65.36	10.43	10.12	79.00	-13.64	QP
3	0.162	43.80	64.39	10.48	10.11	79.00	-14.61	QP
4	0.180	40.09	60.78	10.59	10.10	79.00	-18.22	QP
5	0.185	40.41	61.12	10.62	10.09	79.00	-17.88	QP
6	0.195	39.20	59.97	10.68	10.09	79.00	-19.03	QP
	Freq	Read Level	LISN Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.255	18.14	38.87	10.65	10.08	66.00	-27.13	Average
2	0.325	17.80	38.51	10.59	10.12	66.00	-27.49	Average
3	0.343	17.49	38.19	10.58	10.12	66.00	-27.81	Average
4	0.535	14.32	35.03	10.58	10.13	60.00	-24.97	Average
5	0.751	11.52	32.49	10.84	10.13	60.00	-27.51	Average
6	13.408	14.29	34.81	10.30	10.22	60.00	-25.19	Average

AC 120V/60 Hz, Neutral



Trace: 1

Condition: Neutral

Project : 2501R23076E-EM

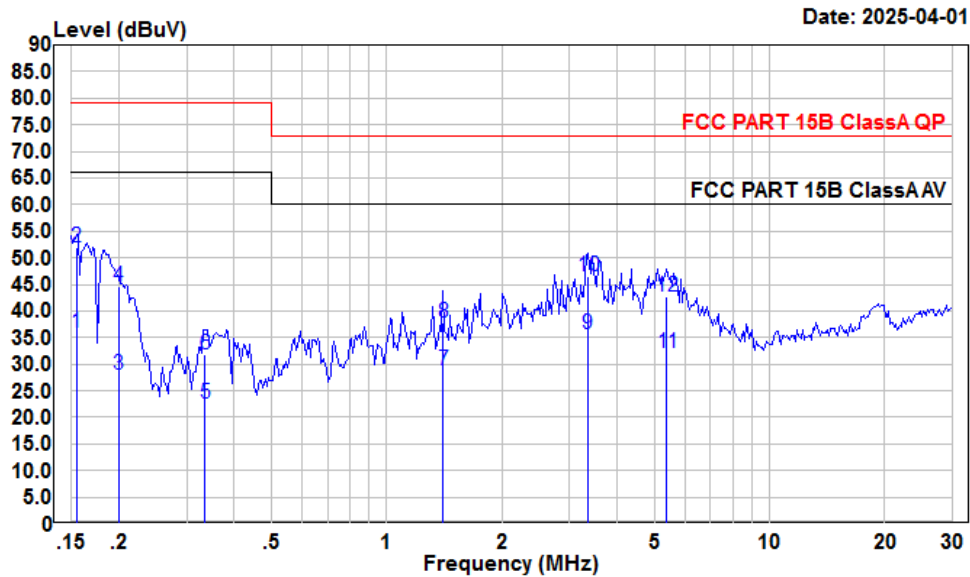
test Mode: Model

tester : Macy.shi Setting: RBW: 9kHz

	Freq	Read Level	LISN Level	Cable Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.158	43.40	63.99	10.47	10.12	79.00	-15.01	QP
2	0.162	42.01	62.62	10.50	10.11	79.00	-16.38	QP
3	0.174	39.69	60.40	10.61	10.10	79.00	-18.60	QP
4	0.185	39.31	60.09	10.69	10.09	79.00	-18.91	QP
5	0.195	39.10	59.96	10.77	10.09	79.00	-19.04	QP
6	0.215	36.69	57.56	10.78	10.09	79.00	-21.44	QP
	Freq	Read Level	LISN Level	Cable Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.252	14.42	35.22	10.72	10.08	66.00	-30.78	Average
2	0.325	22.20	42.96	10.64	10.12	66.00	-23.04	Average
3	0.381	10.75	31.45	10.59	10.11	66.00	-34.55	Average
4	0.541	15.87	36.52	10.52	10.13	60.00	-23.48	Average
5	0.809	10.60	31.40	10.68	10.12	60.00	-28.60	Average
6	0.979	8.57	29.47	10.79	10.11	60.00	-30.53	Average

Test Mode 2

AC 120V/60 Hz, Line



Condition: Line

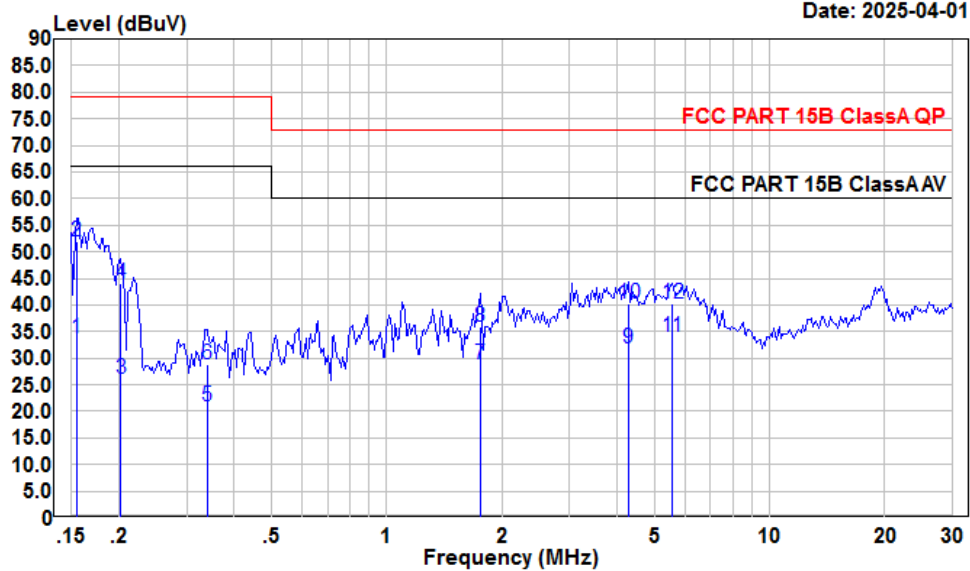
Project : 2501R23076E-EM

test Mode: Mode2

tester : Macy.shi Setting:RBW:9kHz

	Freq	Read Level	LISN Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.155	15.26	35.81	10.43	10.12	66.00	-30.19	Average
2	0.155	31.30	51.85	10.43	10.12	79.00	-27.15	QP
3	0.200	7.35	28.14	10.70	10.09	66.00	-37.86	Average
4	0.200	23.82	44.61	10.70	10.09	79.00	-34.39	QP
5	0.336	1.79	22.50	10.59	10.12	66.00	-43.50	Average
6	0.336	11.03	31.74	10.59	10.12	79.00	-47.26	QP
7	1.403	7.97	28.96	10.84	10.15	60.00	-31.04	Average
8	1.403	16.76	37.75	10.84	10.15	73.00	-35.25	QP
9	3.346	14.57	35.71	10.95	10.19	60.00	-24.29	Average
10	3.346	25.25	46.39	10.95	10.19	73.00	-26.61	QP
11	5.390	11.24	32.16	10.74	10.18	60.00	-27.84	Average
12	5.390	21.91	42.83	10.74	10.18	73.00	-30.17	QP

AC 120V/60 Hz, Neutral



Condition: Neutral

Project : 2501R23076E-EM

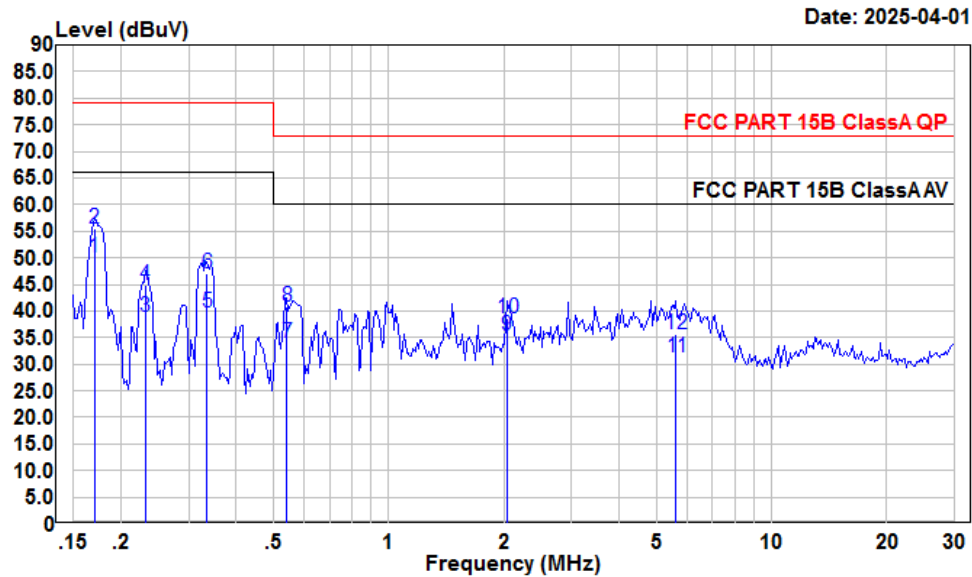
test Mode: Mode2

tester : Macy.shi Setting:RBW:9kHz

	Freq	Read Level	LISN Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.155	13.13	33.69	10.44	10.12	66.00	-32.31	Average
2	0.155	31.39	51.95	10.44	10.12	79.00	-27.05	QP
3	0.202	5.18	26.07	10.80	10.09	66.00	-39.93	Average
4	0.202	23.05	43.94	10.80	10.09	79.00	-35.06	QP
5	0.339	0.24	20.99	10.63	10.12	66.00	-45.01	Average
6	0.339	7.96	28.71	10.63	10.12	79.00	-50.29	QP
7	1.753	7.88	28.78	10.72	10.18	60.00	-31.22	Average
8	1.753	14.91	35.81	10.72	10.18	73.00	-37.19	QP
9	4.269	10.58	31.73	10.95	10.20	60.00	-28.27	Average
10	4.269	19.01	40.16	10.95	10.20	73.00	-32.84	QP
11	5.564	12.96	33.90	10.76	10.18	60.00	-26.10	Average
12	5.564	19.30	40.24	10.76	10.18	73.00	-32.76	QP

Test Mode 3

AC 120V/60 Hz, Line



Condition: Line

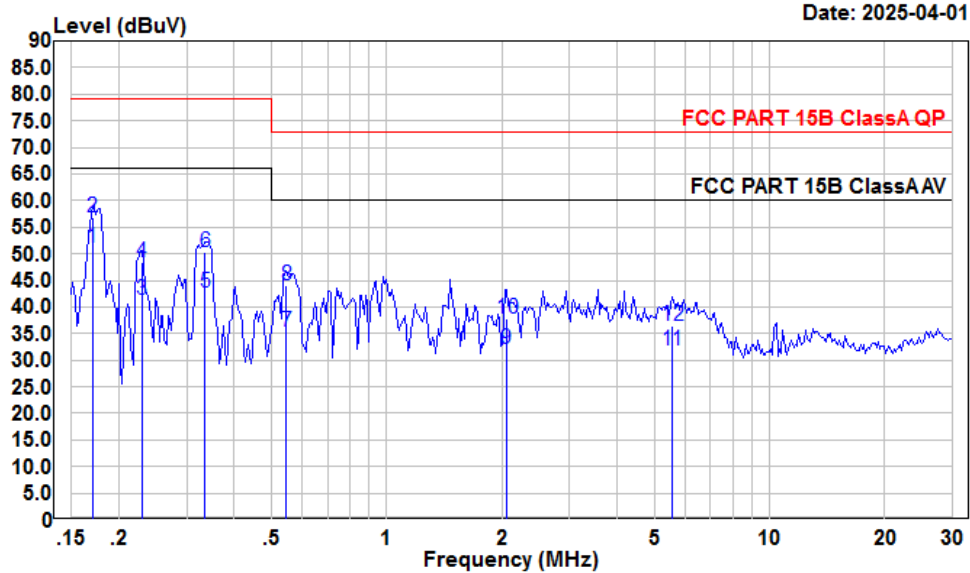
Project : 2501R23076E-EM

test Mode: Mode3

tester : Macy.shi Setting:RBW:9kHz

	Freq	Read Level	LISN Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.170	29.49	50.12	10.53	10.10	66.00	-15.88	Average
2	0.170	34.93	55.56	10.53	10.10	79.00	-23.44	QP
3	0.232	18.15	38.90	10.67	10.08	66.00	-27.10	Average
4	0.232	24.09	44.84	10.67	10.08	79.00	-34.16	QP
5	0.336	19.12	39.83	10.59	10.12	66.00	-26.17	Average
6	0.336	26.36	47.07	10.59	10.12	79.00	-31.93	QP
7	0.541	13.19	33.91	10.59	10.13	60.00	-26.09	Average
8	0.541	19.98	40.70	10.59	10.13	73.00	-32.30	QP
9	2.033	14.05	35.34	11.10	10.19	60.00	-24.66	Average
10	2.033	17.30	38.59	11.10	10.19	73.00	-34.41	QP
11	5.623	10.44	31.34	10.72	10.18	60.00	-28.66	Average
12	5.623	14.80	35.70	10.72	10.18	73.00	-37.30	QP

AC 120V/60 Hz, Neutral



Condition: Neutral

Project : 2501R23076E-EM

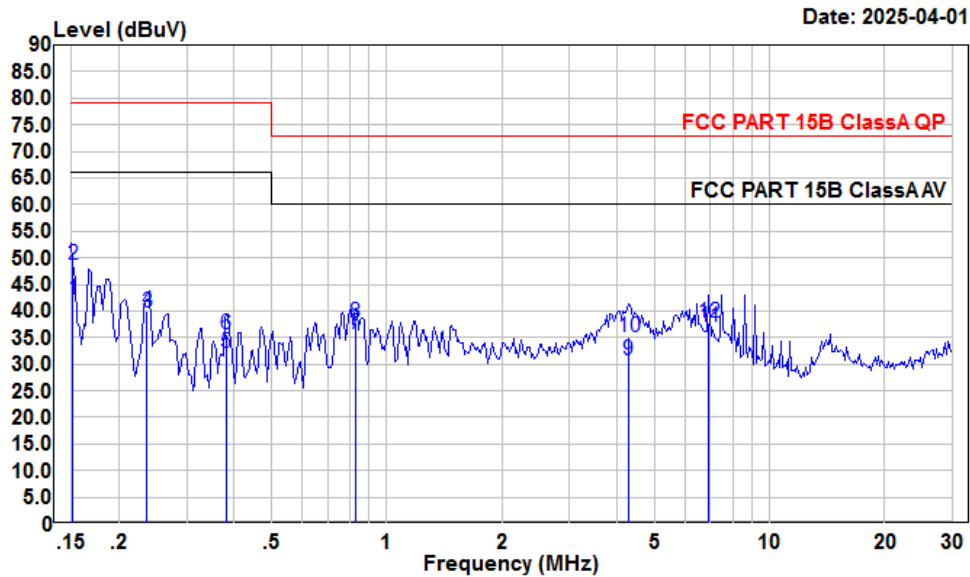
test Mode: Mode3

tester : Macy.shi Setting:RBW:9kHz

	Freq	Read Level	LISN Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.170	30.45	51.13	10.58	10.10	66.00	-14.87	Average
2	0.170	36.25	56.93	10.58	10.10	79.00	-22.07	QP
3	0.229	20.42	41.26	10.76	10.08	66.00	-24.74	Average
4	0.229	27.50	48.34	10.76	10.08	79.00	-30.66	QP
5	0.336	21.97	42.72	10.63	10.12	66.00	-23.28	Average
6	0.336	29.60	50.35	10.63	10.12	79.00	-28.65	QP
7	0.546	14.62	35.28	10.53	10.13	60.00	-24.72	Average
8	0.546	23.33	43.99	10.53	10.13	73.00	-29.01	QP
9	2.055	11.18	32.08	10.71	10.19	60.00	-27.92	Average
10	2.055	16.84	37.74	10.71	10.19	73.00	-35.26	QP
11	5.564	10.86	31.80	10.76	10.18	60.00	-28.20	Average
12	5.564	15.46	36.40	10.76	10.18	73.00	-36.60	QP

Test Mode 4

AC 120V/60 Hz, Line



Condition: Line

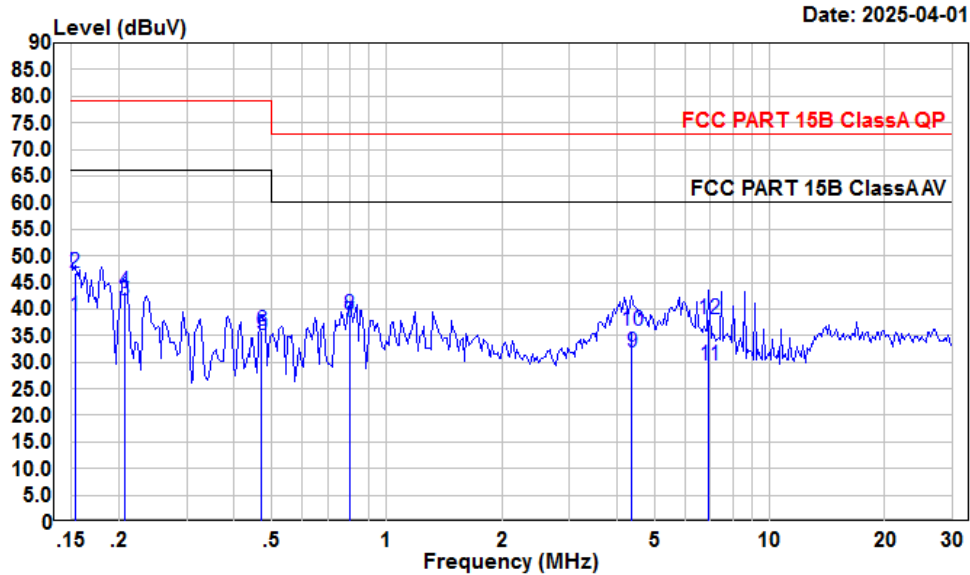
Project : 2501R23076E-EM

test Mode: Mode4

tester : Macy.shi Setting:RBW:9kHz

	Freq	Read Level	LISN Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.152	21.53	42.07	10.41	10.13	66.00	-23.93	Average
2	0.152	28.03	48.57	10.41	10.13	79.00	-30.43	QP
3	0.237	18.98	39.72	10.66	10.08	66.00	-26.28	Average
4	0.237	19.36	40.10	10.66	10.08	79.00	-38.90	QP
5	0.381	11.40	32.07	10.56	10.11	66.00	-33.93	Average
6	0.381	15.00	35.67	10.56	10.11	79.00	-43.33	QP
7	0.826	14.87	35.74	10.76	10.11	60.00	-24.26	Average
8	0.826	16.87	37.74	10.76	10.11	73.00	-35.26	QP
9	4.269	9.79	30.86	10.87	10.20	60.00	-29.14	Average
10	4.269	13.93	35.00	10.87	10.20	73.00	-38.00	QP
11	6.951	16.15	36.94	10.60	10.19	60.00	-23.06	Average
12	6.951	16.93	37.72	10.60	10.19	73.00	-35.28	QP

AC 120V/60 Hz, Neutral



Condition: Neutral

Project : 2501R23076E-EM

test Mode: Mode4

tester : Macy.shi Setting:RBW:9kHz

	Freq	Read Level	LISN Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.153	18.19	38.75	10.43	10.13	66.00	-27.25	Average
2	0.153	26.35	46.91	10.43	10.13	79.00	-32.09	QP
3	0.206	20.71	41.59	10.79	10.09	66.00	-24.41	Average
4	0.206	22.36	43.24	10.79	10.09	79.00	-35.76	QP
5	0.471	14.41	35.06	10.52	10.13	66.00	-30.94	Average
6	0.471	15.36	36.01	10.52	10.13	79.00	-42.99	QP
7	0.800	16.69	37.49	10.68	10.12	60.00	-22.51	Average
8	0.800	18.22	39.02	10.68	10.12	73.00	-33.98	QP
9	4.361	10.55	31.69	10.94	10.20	60.00	-28.31	Average
10	4.361	14.88	36.02	10.94	10.20	73.00	-36.98	QP
11	6.951	8.59	29.39	10.61	10.19	60.00	-30.61	Average
12	6.951	17.20	38.00	10.61	10.19	73.00	-35.00	QP

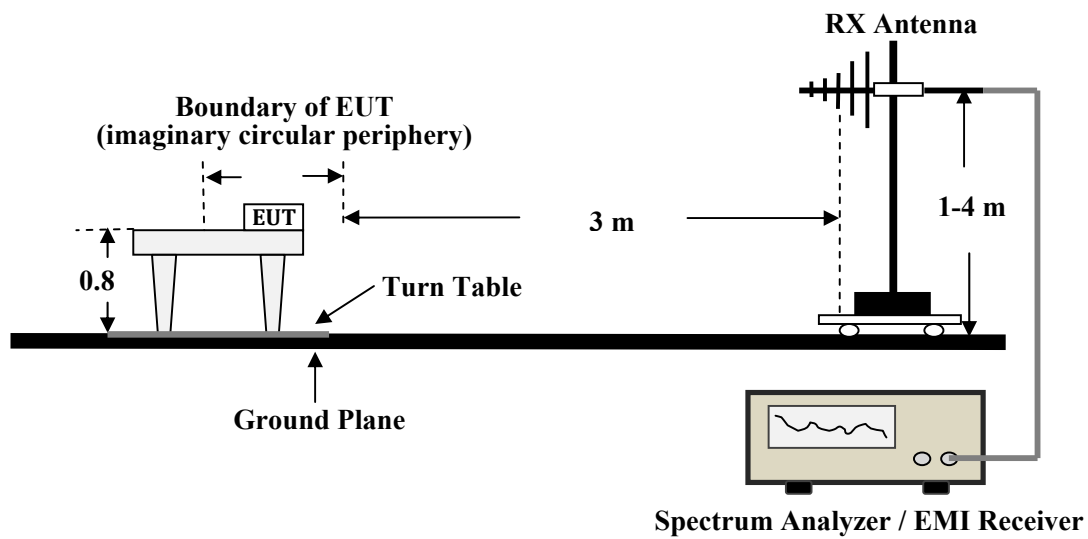
FCC §15.109 - RADIATED EMISSIONS

Applicable Standard

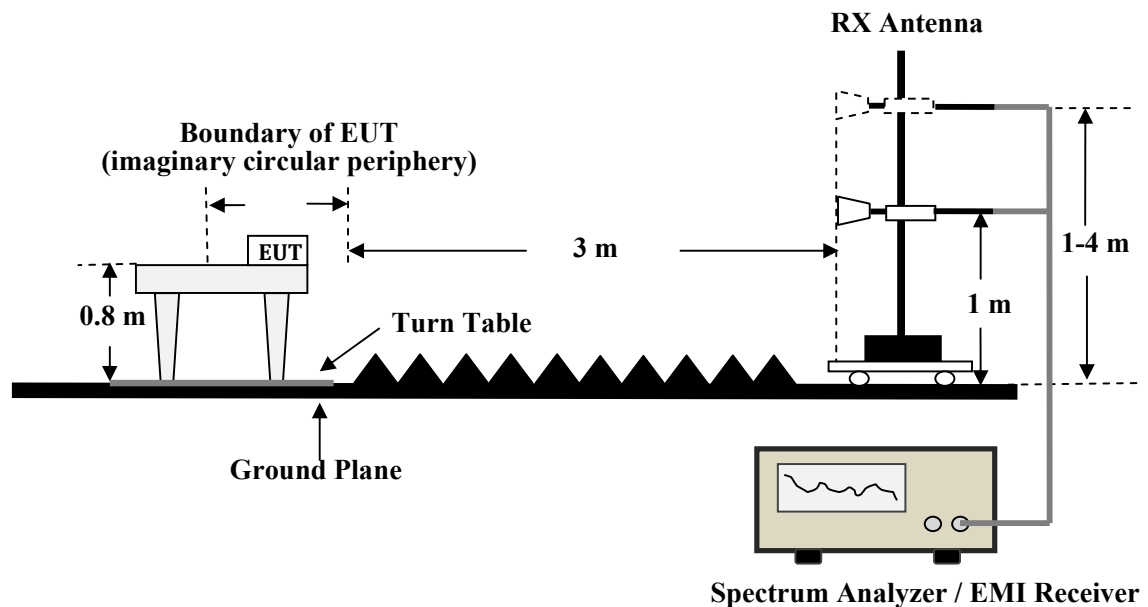
FCC §15.109

EUT Setup

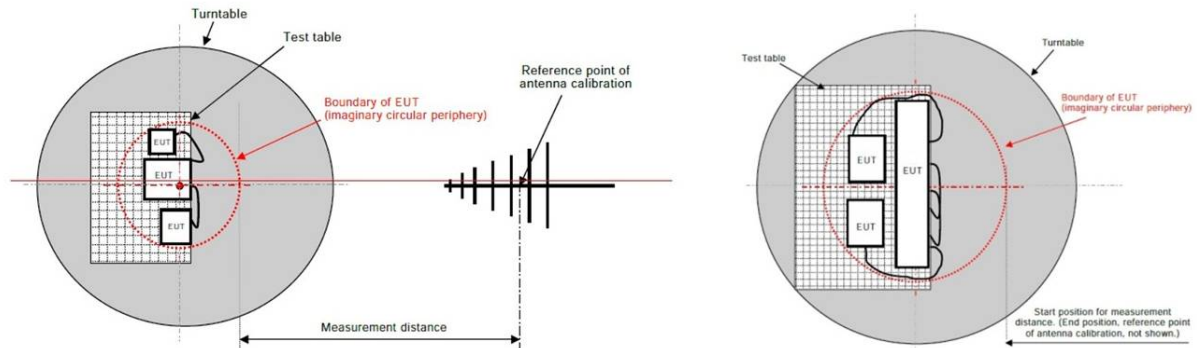
Below 1GHz for Radiated Emissions



Above 1GHz for Radiated Emissions



Radiated Emissions Setup Configuration



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The related limit was specified in FCC Part 15B.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver and Spectrum analyzer Setup

During the radiated emission test, the EMI test receiver and spectrum analyzer setup was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	PK

Test Procedure

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

If emission level of the EUT in Peak measurement mode is 20dB lower than peak limit line (that means the emission level in Peak measurement mode complies with both Peak and average limit lines) then only Peak measurement result is reported .Otherwise, Emission in average measurement mode shall be measured, and reported for frequency range above 1GHz.

Level & Over Limit Calculation

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

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

$$\text{Level} = \text{Read Level} + \text{Factor}$$

The “Over limit” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -6 dB means the emission is 6dB below the limit for Class A. The equation for Over Limit calculation is as follows:

$$\text{Over limit} = \text{Level} - \text{Limit}$$

Test Data

Environmental Conditions

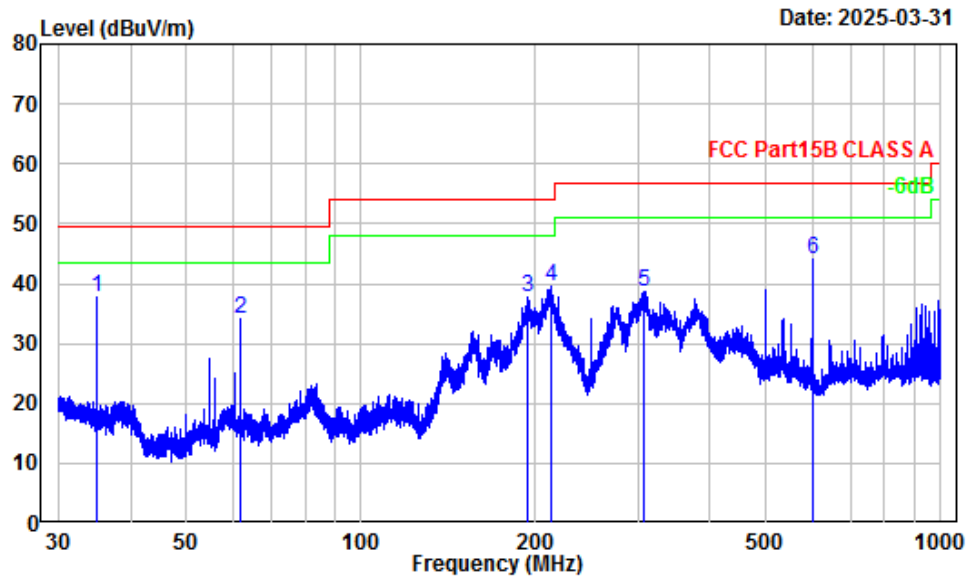
Temperature:	23.2~23.8 °C
Relative Humidity:	45~56%
ATM Pressure:	101.2~101.5 kPa

The testing was performed by Anson Su on 2025-03-31 for below 1GHz and Wing K Ji on 2025-04-27 for above 1GHz.

Test Mode 1

30 MHz~1 GHz

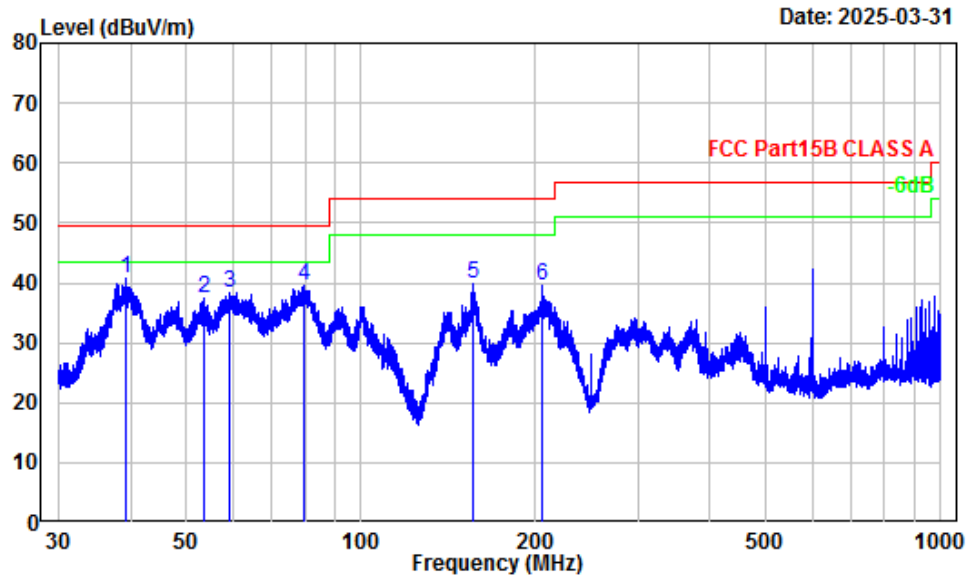
Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501R23076E-EM
Test Mode : Mode 1
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

	Freq Factor		Read	Limit	Over	Remark
	MHz	dB/m	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	34.94	-8.86	46.55	37.69	49.54	-11.85 Peak
2	61.72	-18.11	52.18	34.07	49.54	-15.47 Peak
3	194.37	-13.74	51.48	37.74	53.98	-16.24 Peak
4	212.46	-14.12	53.55	39.43	53.98	-14.55 Peak
5	308.51	-11.06	49.71	38.65	56.90	-18.25 Peak
6	600.11	-5.28	49.47	44.19	56.90	-12.71 Peak

Vertical

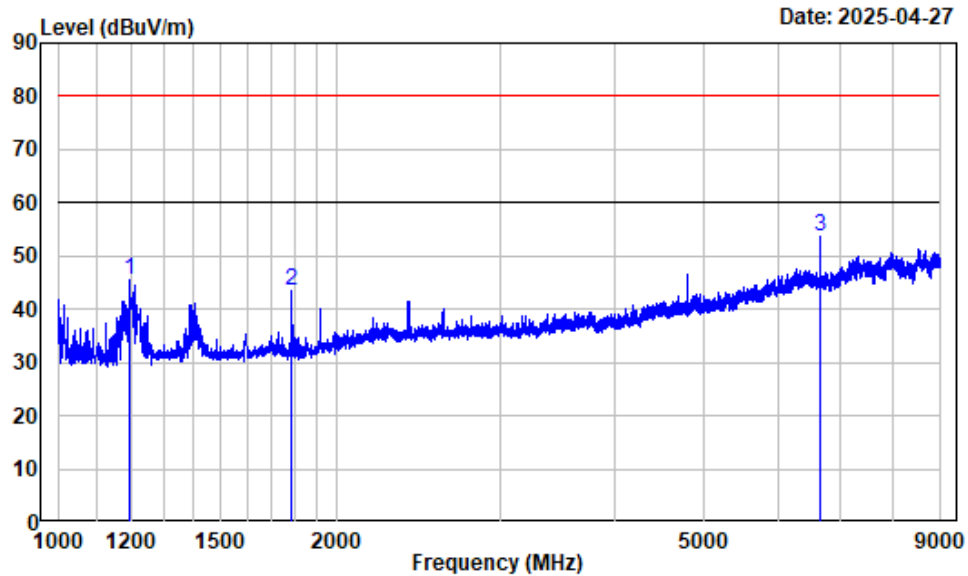


Site : Chamber A
Condition : 3m Vertical
Project Number : 2501R23076E-EM
Test Mode : Mode 1
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

	Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	39.14	-11.77	52.56	40.79	49.54	-8.75	Peak
2	53.48	-18.32	55.71	37.39	49.54	-12.15	Peak
3	59.36	-18.18	56.38	38.20	49.54	-11.34	Peak
4	79.45	-17.90	57.44	39.54	49.54	-10.00	Peak
5	156.32	-12.64	52.37	39.73	53.98	-14.25	Peak
6	205.22	-13.47	52.88	39.41	53.98	-14.57	Peak

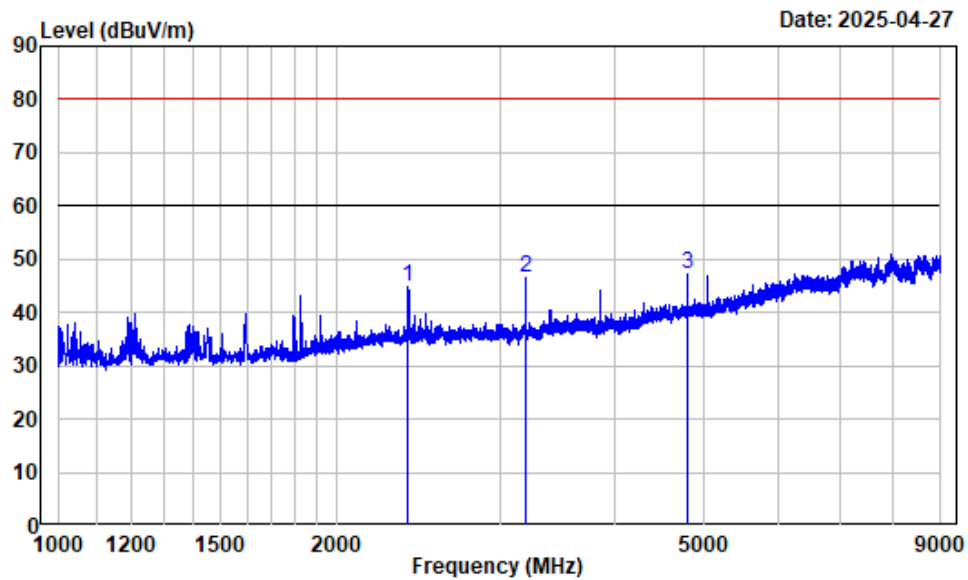
1 ~ 9 GHz

Horizontal



Site : chamber B
Condition : Horizontal
Project Number : 2501R23076E-EM
Test mode : mode1
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1194.024	-15.15	60.79	45.64	80.00	-34.36	Peak
2	1790.099	-14.02	57.36	43.34	80.00	-36.66	Peak
3	6670.709	-3.11	56.67	53.56	80.00	-26.44	Peak

Vertical

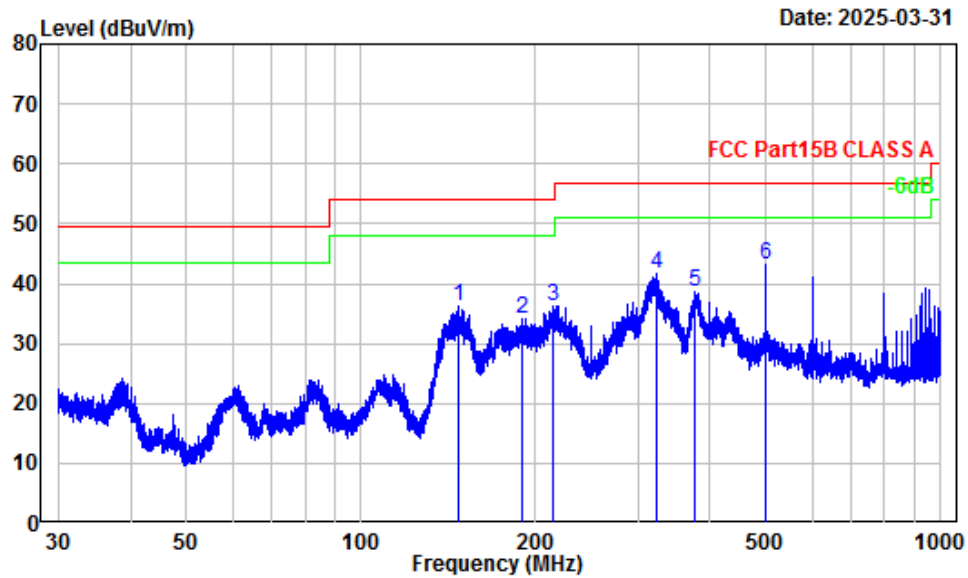
Site : chamber B
Condition : Vertical
Project Number : 2501R23076E-EM
Test mode : mode1
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2391.174	-10.98	55.88	44.90	80.00	-35.10	Peak
2	3198.275	-10.59	56.99	46.40	80.00	-33.60	Peak
3	4797.475	-7.79	55.05	47.26	80.00	-32.74	Peak

Test Mode 2

30 MHz~1 GHz

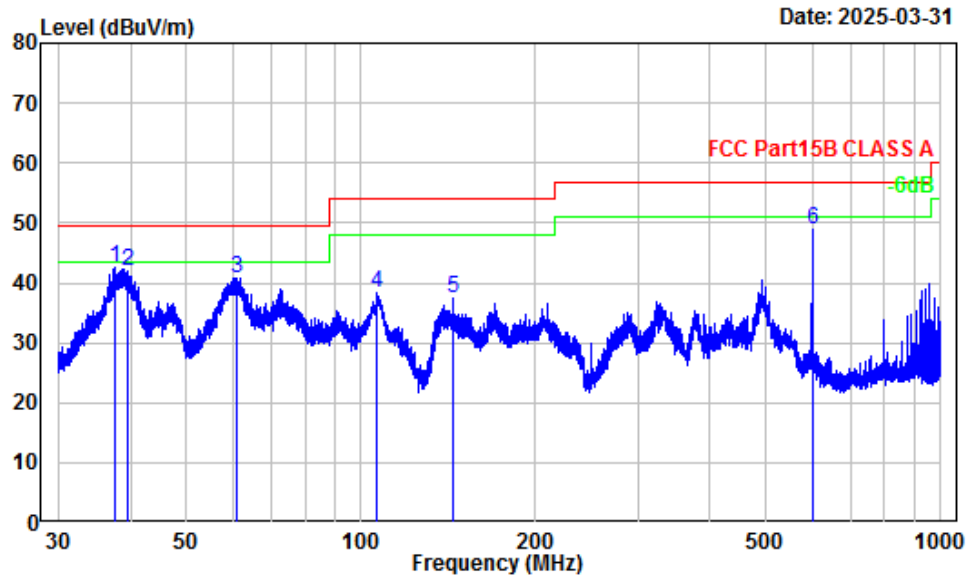
Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501R23076E-EM
Test Mode : Mode 2
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	147.15	-12.28	48.43	36.15	53.98	-17.83	Peak
2	190.07	-14.22	48.46	34.24	53.98	-19.74	Peak
3	214.33	-14.18	50.53	36.35	53.98	-17.63	Peak
4	323.32	-10.72	52.35	41.63	56.90	-15.27	Peak
5	376.93	-9.24	47.82	38.58	56.90	-18.32	Peak
6	500.08	-5.76	48.89	43.13	56.90	-13.77	Peak

Vertical

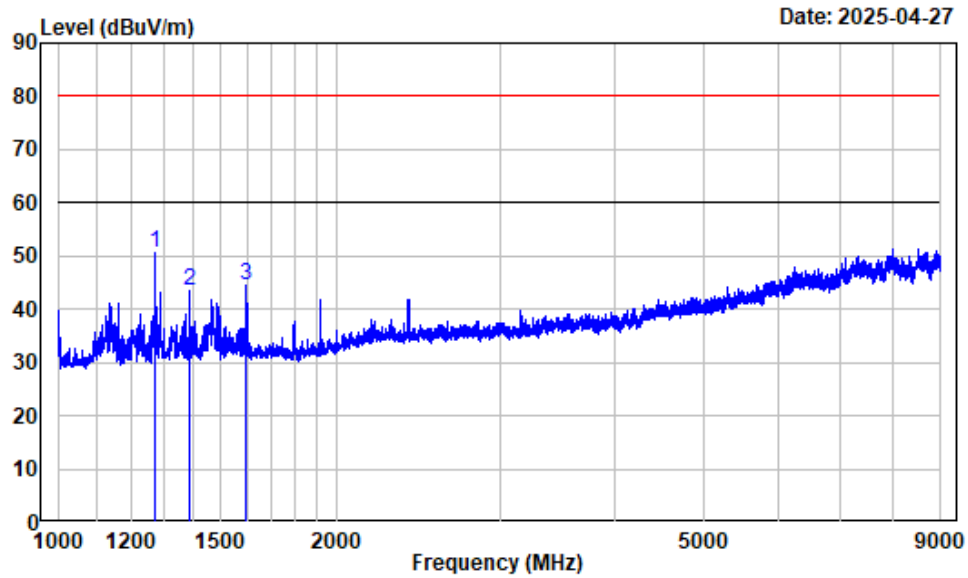


Site : Chamber A
Condition : 3m Vertical
Project Number : 2501R23076E-EM
Test Mode : Mode 2
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

	Freq Factor		Read Level	Limit Level	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	37.68	-10.76	53.36	42.60	49.54	-6.94 Peak
2	39.70	-12.16	54.05	41.89	49.54	-7.65 Peak
3	61.13	-18.12	58.88	40.76	49.54	-8.78 Peak
4	106.71	-13.92	52.15	38.23	53.98	-15.75 Peak
5	144.40	-12.18	49.65	37.47	53.98	-16.51 Peak
6	600.11	-5.28	54.28	49.00	56.90	-7.90 Peak

1 ~ 9 GHz

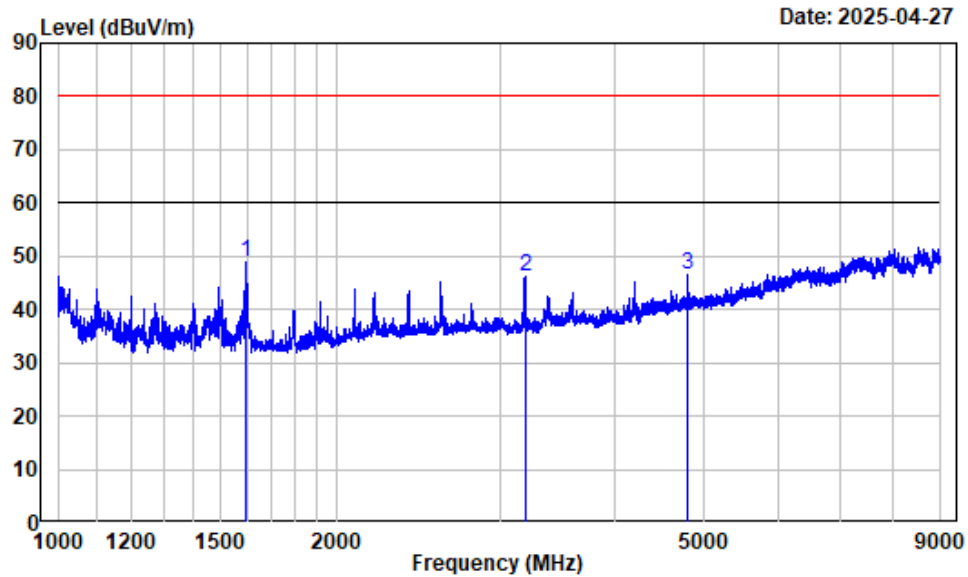
Horizontal



Site : chamber B
 Condition : Horizontal
 Project Number : 2501R23076E-EM
 Test mode : mode2
 Tester : Wing K Ji
 Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

	Freq Factor		Read	Limit	Over	Remark
	MHz	dB/m	Level	Level	Line	
			dBuV	dBuV/m	dBuV/m	
1	1272.034	-14.53	65.13	50.60	80.00	-29.40 Peak
2	1386.048	-14.10	57.53	43.43	80.00	-36.57 Peak
3	1599.075	-14.33	58.85	44.52	80.00	-35.48 Peak

Vertical



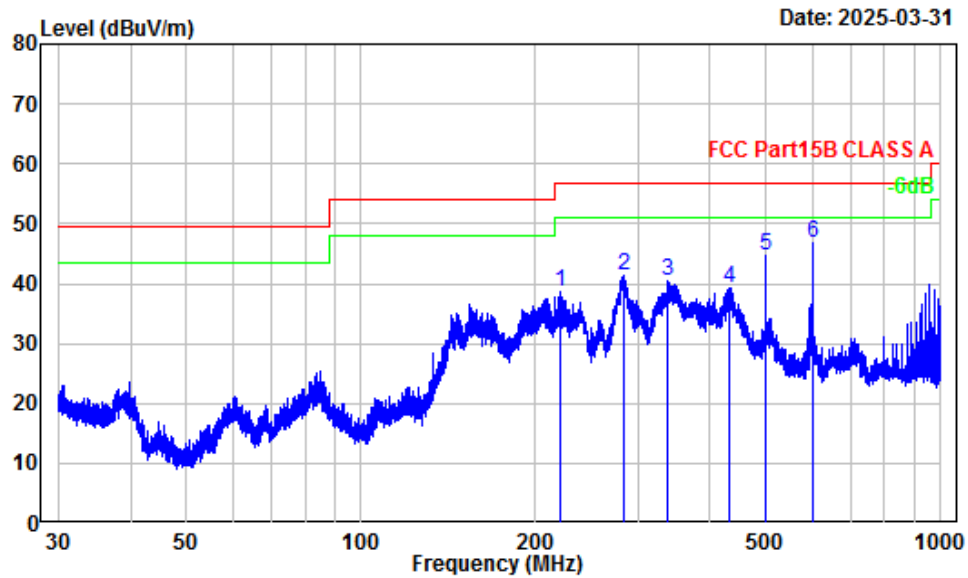
Site : chamber B
Condition : Vertical
Project Number : 2501R23076E-EM
Test mode : mode2
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1596.074	-14.32	63.36	49.04	80.00	-30.96	Peak
2	3202.275	-10.59	56.90	46.31	80.00	-33.69	Peak
3	4796.475	-7.79	54.24	46.45	80.00	-33.55	Peak

Test Mode 3

30 MHz~1 GHz

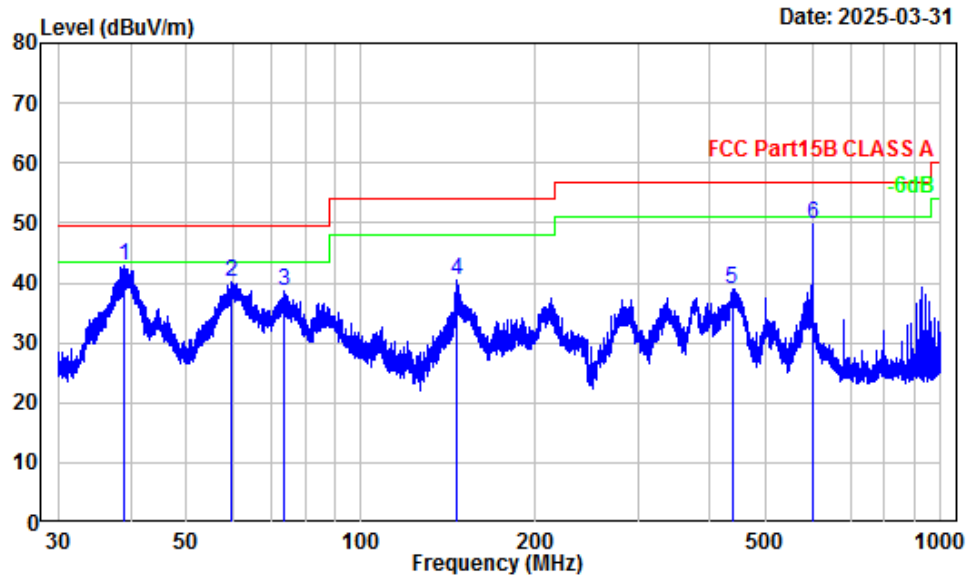
Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501R23076E-EM
Test Mode : Mode 3
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	220.13	-14.20	52.81	38.61	56.90	-18.29	Peak
2	283.48	-11.23	52.51	41.28	56.90	-15.62	Peak
3	337.22	-10.48	50.85	40.37	56.90	-16.53	Peak
4	430.84	-7.80	47.06	39.26	56.90	-17.64	Peak
5	500.08	-5.76	50.56	44.80	56.90	-12.10	Peak
6	600.11	-5.28	52.08	46.80	56.90	-10.10	Peak

Vertical

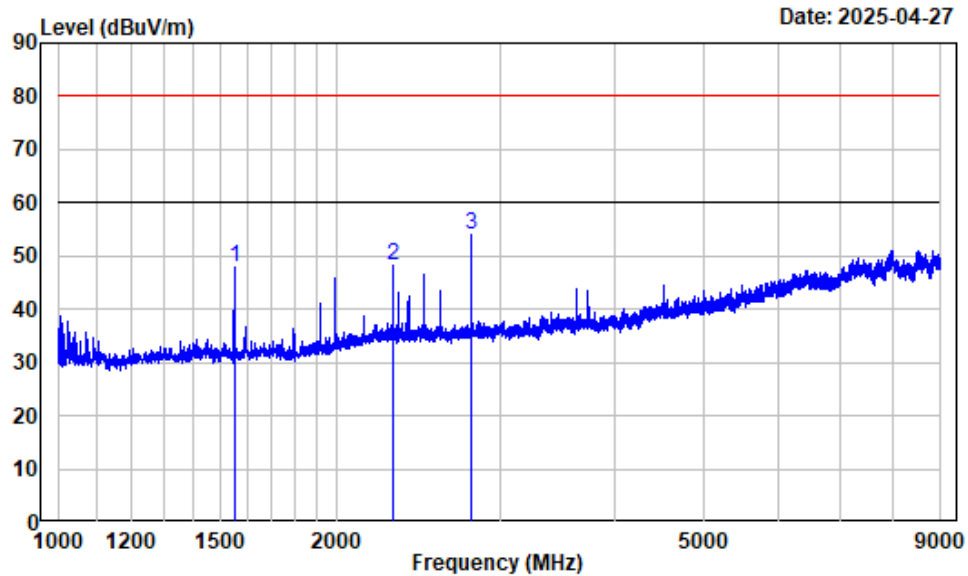


Site : Chamber A
Condition : 3m Vertical
Project Number : 2501R23076E-EM
Test Mode : Mode 3
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

	Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	38.87	-11.59	54.59	43.00	49.54	-6.54	Peak
2	59.62	-18.16	58.28	40.12	49.54	-9.42	Peak
3	73.62	-17.85	56.57	38.72	49.54	-10.82	Peak
4	146.05	-12.27	52.65	40.38	53.98	-13.60	Peak
5	436.55	-7.73	46.65	38.92	56.90	-17.98	Peak
6	600.11	-5.28	55.06	49.78	56.90	-7.12	Peak

1 ~ 9 GHz

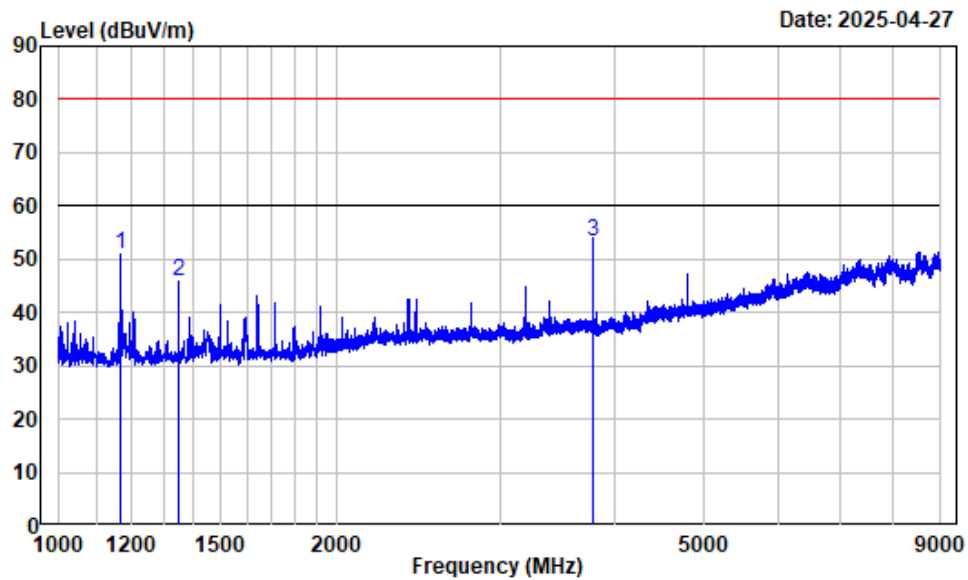
Horizontal



Site : chamber B
Condition : Horizontal
Project Number : 2501R23076E-EM
Test mode : mode3
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1550.069	-14.09	62.01	47.92	80.00	-32.08	Peak
2	2304.163	-10.78	59.05	48.27	80.00	-31.73	Peak
3	2799.225	-10.59	64.49	53.90	80.00	-26.10	Peak

Vertical



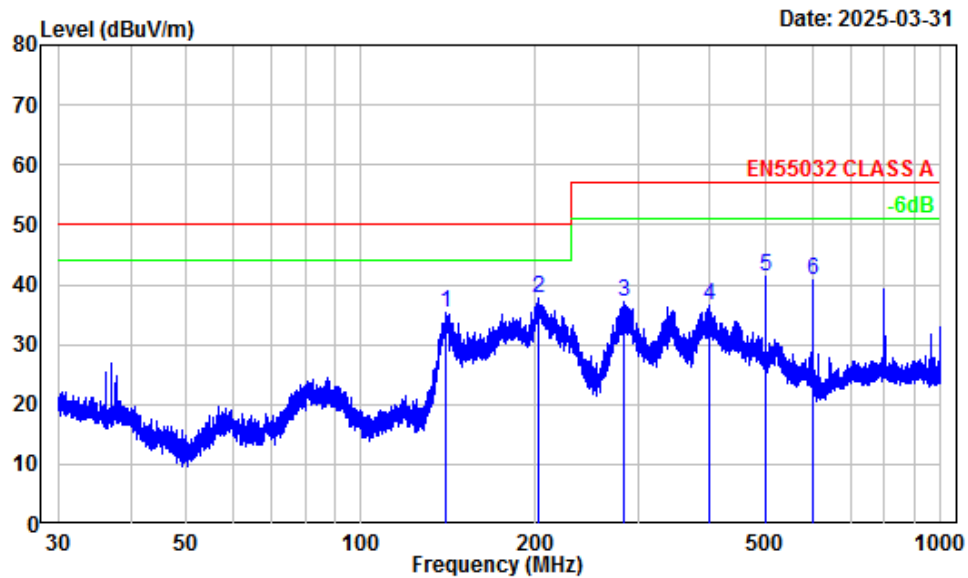
Site : chamber B
Condition : Vertical
Project Number : 2501R23076E-EM
Test mode : mode3
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1168.021	-15.24	66.10	50.86	80.00	-29.14	Peak
2	1349.044	-14.28	60.19	45.91	80.00	-34.09	Peak
3	3788.349	-9.76	62.91	53.15	80.00	-26.85	Peak

Test Mode 4

30 MHz~1 GHz

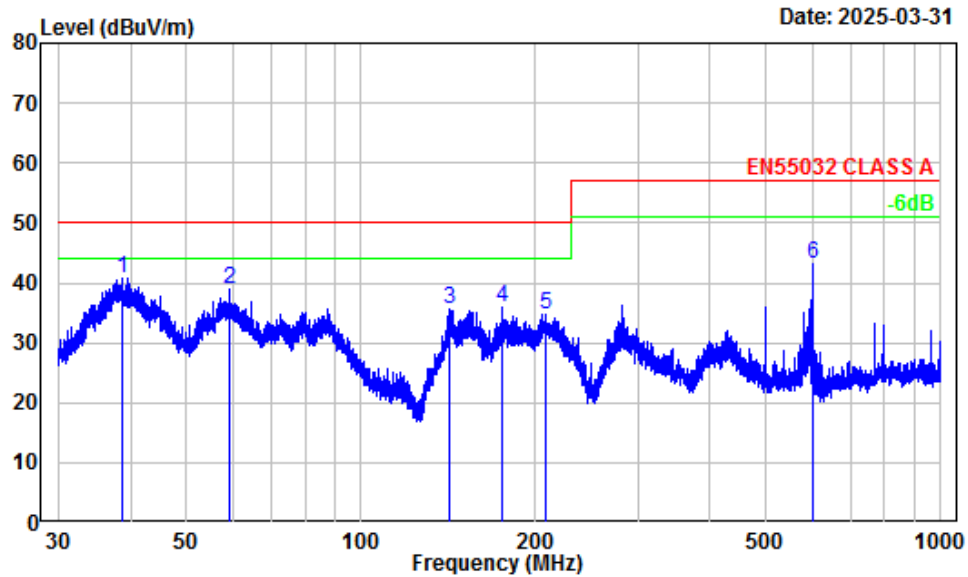
Horizontal



Site : Chamber A
 Condition : 3m Horizontal
 Project Number : 2501R23076E-EM
 Test Mode : Mode 4
 Detector: Peak RBW/VBW: 100/300kHz
 Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	140.10	-11.89	47.28	35.39	50.00	-14.61	Peak
2	201.75	-13.19	51.01	37.82	50.00	-12.18	Peak
3	283.98	-11.23	48.37	37.14	57.00	-19.86	Peak
4	399.38	-8.43	44.86	36.43	57.00	-20.57	Peak
5	500.08	-5.76	47.07	41.31	57.00	-15.69	Peak
6	600.11	-5.28	46.06	40.78	57.00	-16.22	Peak

Vertical

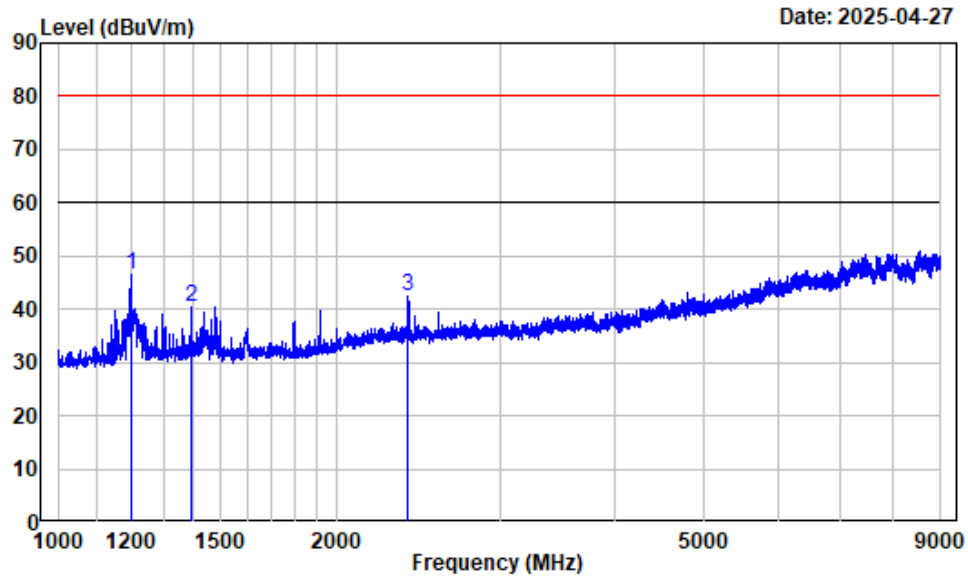


Site : Chamber A
Condition : 3m Vertical
Project Number : 2501R23076E-EM
Test Mode : Mode 4
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

	Freq Factor		Read	Limit	Over	Remark
	MHz	dB/m	Level	Level	Line	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	38.79	-11.53	52.42	40.89	50.00	-9.11 Peak
2	59.41	-18.18	57.09	38.91	50.00	-11.09 Peak
3	142.51	-12.03	47.67	35.64	50.00	-14.36 Peak
4	175.11	-13.38	49.44	36.06	50.00	-13.94 Peak
5	207.67	-13.76	48.52	34.76	50.00	-15.24 Peak
6	600.11	-5.28	48.37	43.09	57.00	-13.91 Peak

1 ~ 9 GHz

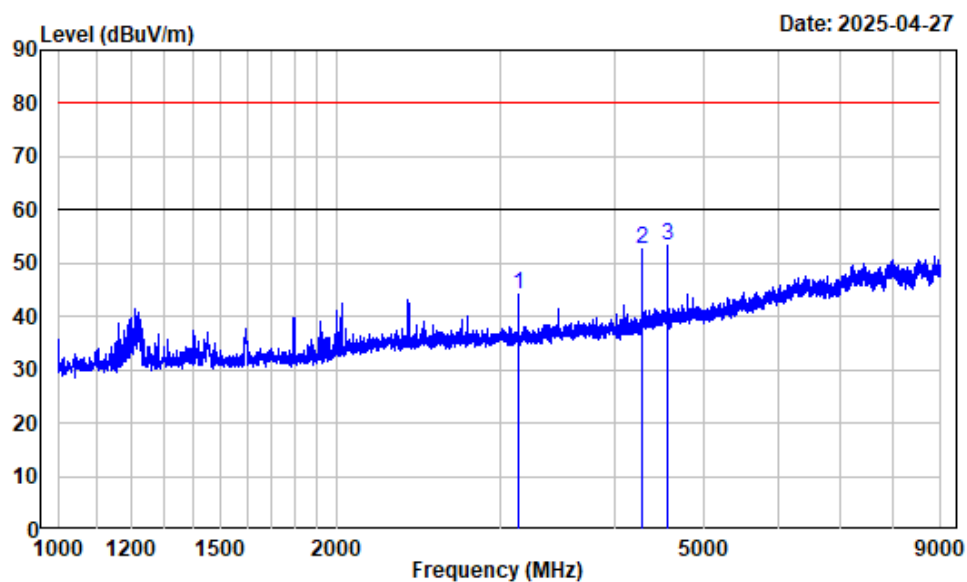
Horizontal



Site : chamber B
Condition : Horizontal
Project Number : 2501R23076E-EM
Test mode : mode4
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1198.025	-15.13	61.65	46.52	80.00	-33.48	Peak
2	1395.049	-14.05	54.39	40.34	80.00	-39.66	Peak
3	2391.174	-10.98	53.35	42.37	80.00	-37.63	Peak

Vertical



Site : chamber B
Condition : Vertical
Project Number : 2501R23076E-EM
Test mode : mode4
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	3143.268	-10.52	54.63	44.11	80.00	-35.89	Peak
2	4273.409	-8.99	61.63	52.64	80.00	-27.36	Peak
3	4562.445	-8.15	61.50	53.35	80.00	-26.65	Peak

EUT PHOTOGRAPHS

Please refer to the attachment 2501R23076E-EM External photo and 2501R23076E-EM Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2501R23076E-EM Test Setup photo.

******* END OF REPORT *******