



TEST REPORT

Applicant Name: Grandstream Networks, Inc.
Address: 126 Brookline Ave., 3rd Floor Boston, MA 02215, USA
Report Number: 2504Y33060E-EM-00A
FCC ID: YZZGWN7803R

Test Standard (s)

FCC Rules and Regulations Part 15 Subpart B Class A

Sample Description

Product Name: Enterprise Layer 2++ Managed Switch
Model No.: GWN7803 Pro
Trade Mark: GRANDSTREAM
Date Received: 2025-10-14
Report Date: 2025-11-18

Test Result:	The EUT complied with the standards above.
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Prepared and Checked By:

Ronour Huang

Ronour Huang
EMC Engineer

Approved By:

Bob. Liao

Bob.Liao
EMC Engineer

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
Rev.00	2504Y33060E-EM-00A	Original Report	2025-11-18

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product Name	Enterprise Layer 2++ Managed Switch
Tested Model	GWN7803 Pro
Highest Operating Frequency	The EUT's highest operating frequency is 1000 MHz [#] , the radiated emission measurement shall be made up to 5 GHz.
Voltage Range [#]	AC 100-240V 50/60Hz (with ground)/DC12V from adapter
Sample Serial Number	3B9X-1 (RISUNIC Built-in power supply model: R0001B(RB030W05-1302300)) 3B9X-2 (UE built-in power supply model:UES30-130230SPA-OP1) (CE&RE) (Assigned by ATC, Shenzhen)
Sample/EUT Status	Good condition
Note: The device comes with an AC cable(1.2 m), a hanging strap, a yellow ground wire, plastic pads and screws.	

Objective

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

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

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.

Unless otherwise stated there are no any additions to, deviations, or exclusions from the method.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Accredited by American Association for Laboratory Accreditation (A2LA).The Certificate Number is 4297.01.

Measurement Uncertainty

Parameter		Uncertainty
AC Power Lines Conducted Emissions		2.7 dB(k=2, 95% level of confidence)
Radiated emission	30MHz-1GHz	4.3 dB(k=2, 95% level of confidence)
	1GHz-18GHz	4.9 dB(k=2, 95% level of confidence)
Temperature		1 °C
Humidity		7 %
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

Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user).

Test Mode 1: Powered by AC power supply + Full load + data transmitting

Test Mode 2: Powered by DC power supply + Full load + data transmitting

Test Voltage: AC 120V 60Hz

EUT Exercise Software

Use the software LanTest20 to monitor the network interface rate.

Special Accessories

No special accessory was used.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Dell	Laptop①	XXJL-2	FKLWV32
Lenovo	Laptop②	X240	PB5TXP5
MASS POWER	Adapter# Input: 100-240V~ 50/60Hz 1.5A Output: 12.0V ---5.0A 60.0W	NBS65A120500 M3	Unknown

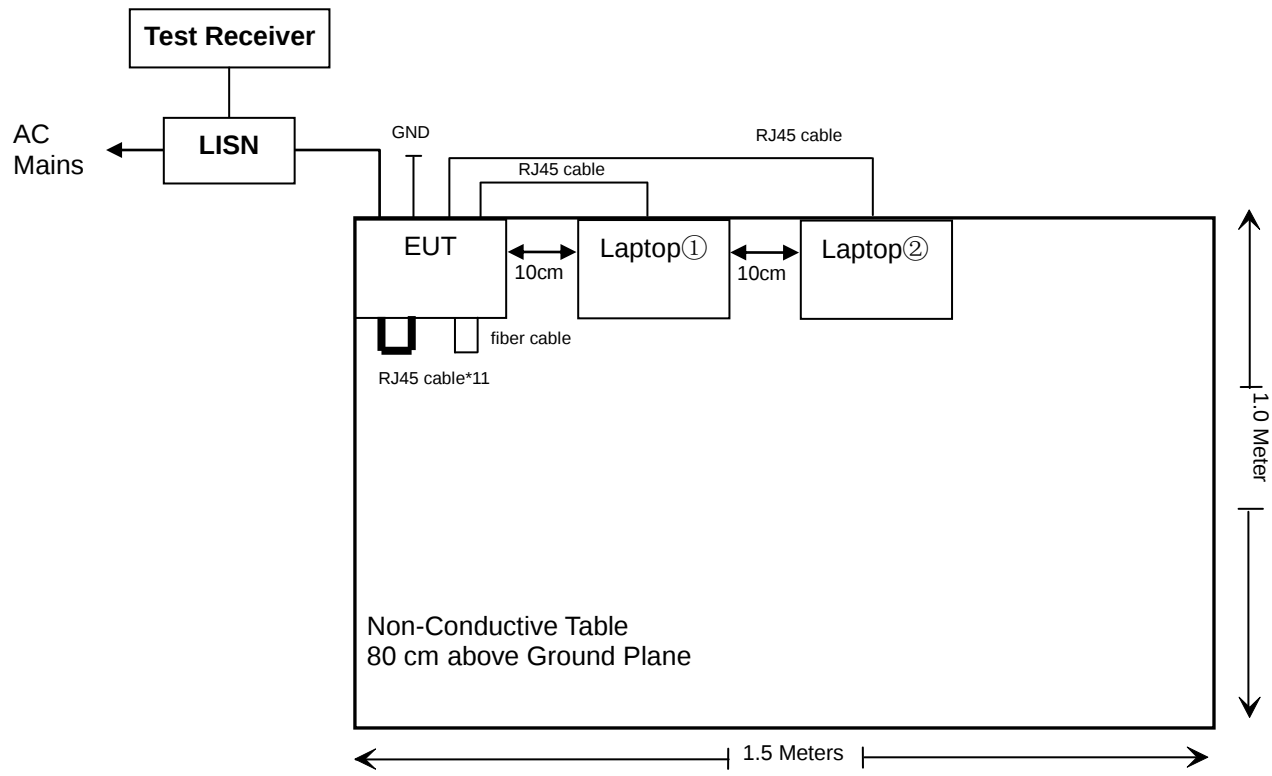
External I/O Cable

Cable Description	Length (m)	From Port	To
Unshielded Detachable AC Cable	1.2	AC Mains	EUT
Unshielded Detachable AC Cable	1.2	AC Mains	Adapter
Unshielded Detachable DC Cable	1.0	Adapter	EUT
Unshielded Detachable RJ45 Cable*11	1.1	EUT	EUT
Unshielded Detachable Fiber Cable	3.0	EUT	EUT
Unshielded Detachable GND Cable	1.0	EUT	GND
Unshielded Detachable RJ45 Cable	1.5	EUT	Laptop①
Unshielded Detachable RJ45 Cable	1.5	EUT	Laptop②

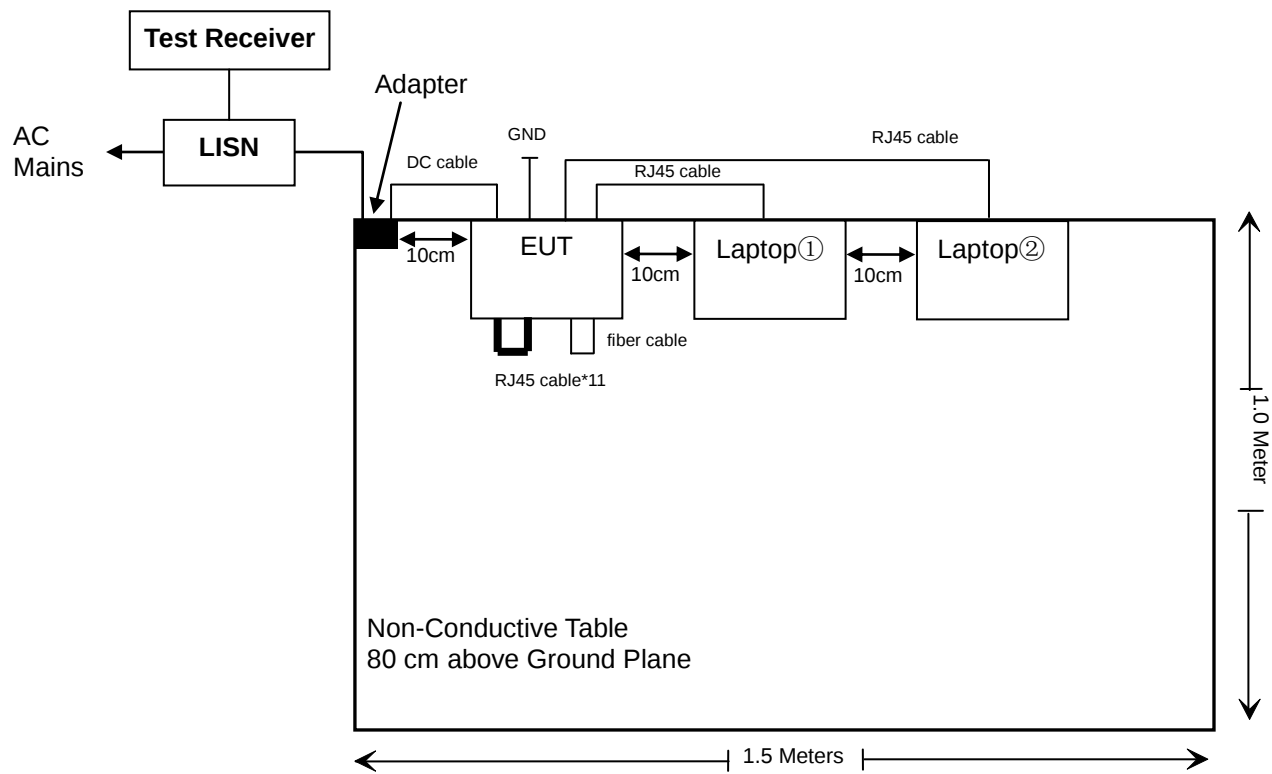
Block Diagram of Test Setup

For Conducted Emission:

Test Mode 1

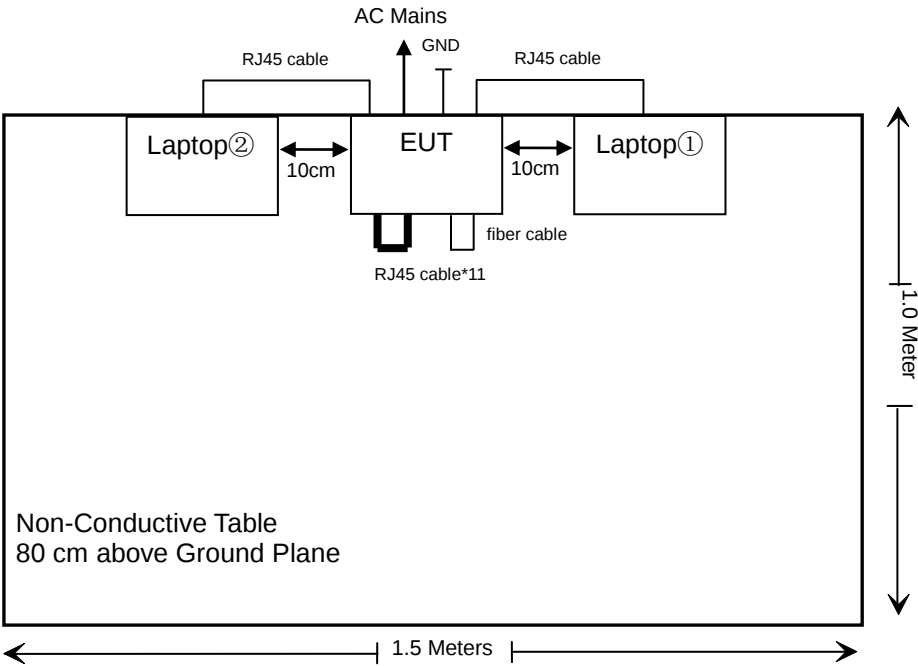


Test Mode 2

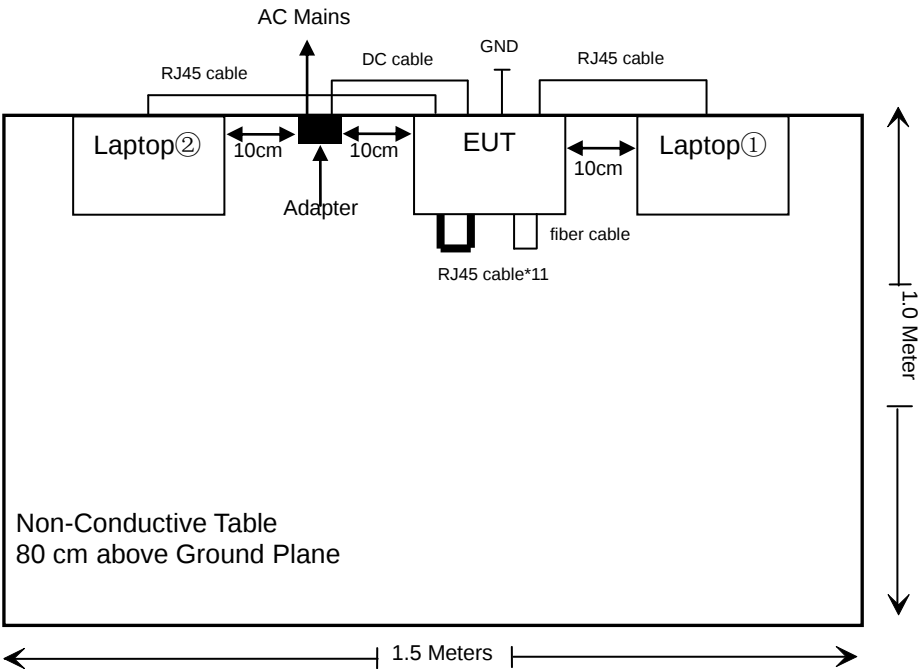


For Radiated Emission:

Test Mode 1



Test Mode 2



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§15.107	Conducted Emissions	Compliance
§15.109	Radiated Emissions	Compliance

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	100784	2025/09/17	2026/09/16
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2025/09/17	2026/09/16
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2025/09/18	2026/09/17
Rohde & Schwarz	Pulse Limiter	ESH3-Z2	100312	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.17	N0350	2025/05/30	2026/05/29
Test Software: e3 191218 (V9)					
Radiated Emission Test (Below 1GHz)					
Rohde& Schwarz	Test Receiver	ESR	102725	2025/09/18	2026/09/17
SONOMA INSTRUMENT	Amplifier	310N	186131	2025/03/26	2026/03/25
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2024/08/08	2027/08/07
Unknown	RF Coaxial Cable	No.12	N040	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.13	N300	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.14	N800	2025/05/30	2026/05/29
Test Software: e3 191218 (V9)					
Radiated Emission Test (Above 1GHz)					
Rohde & Schwarz	Spectrum Analyzer	FSV40	101949	2025/09/17	2026/09/16
Decentest	Filter Switch Unit	DT7220FSU	DQ77927	2025/09/18	2026/09/17
Decentest	Multiplex Switch Test Control Set	DT7220CSU	DQ77924	2025/09/18	2026/09/17
A.H. Systems, inc.	Preamplifier	PAM-0118	226	2025/03/20	2026/03/19
Schwarzbeck	Horn Antenna	BBHA9120D	837	2023/02/22	2026/02/21
Unknown	RF Coaxial Cable	No.10	N050	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.11	N1000	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.19	N500	2025/05/30	2026/05/29
Test Software: e3 191218 (V9)					

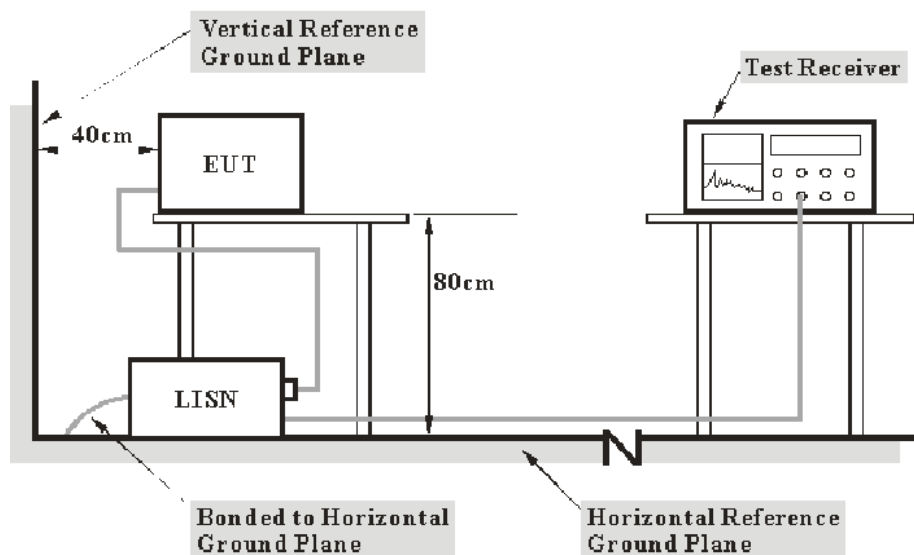
*** Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.107-CONDUCTED EMISSIONS

Applicable Standard

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 Class A.

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	IF B/W
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.

Calculation

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

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss} + 10\text{dB Attenuation(Limiter)}$$

The “**Over limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

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

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

Test Data

Environmental Conditions

Temperature:	25.7 °C
Relative Humidity:	47 %
ATM Pressure:	100.7 kPa

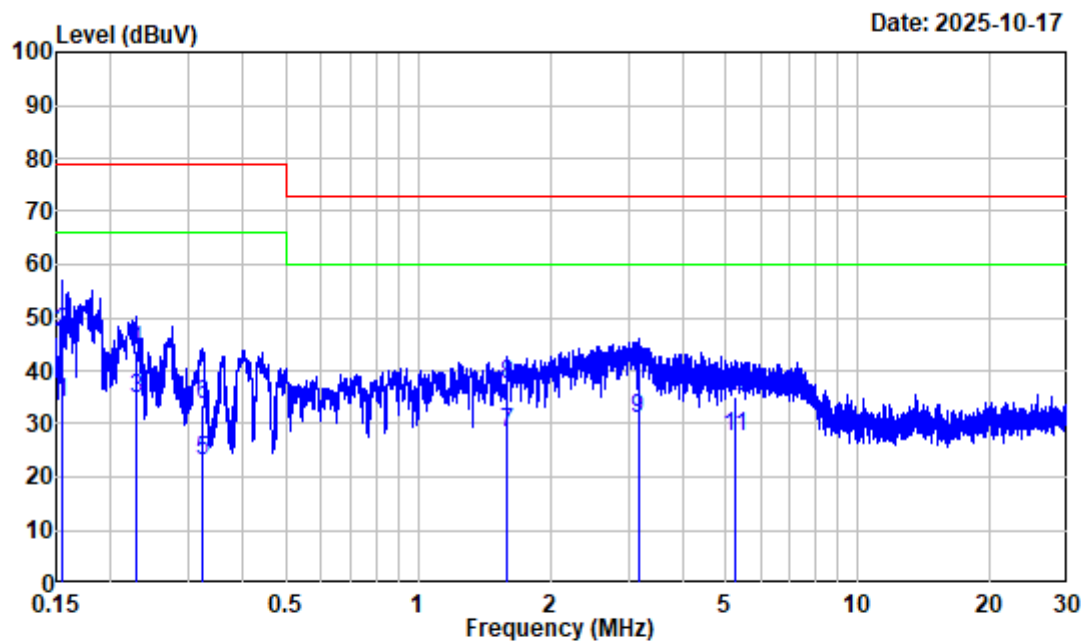
The testing was performed by Jason Fan on 2025-10-17.

The frequency range from 150kHz to 30MHz is investigated.

EUT operation mode: Test mode 1&2

Test Result: Compliance, please refer to the following data.

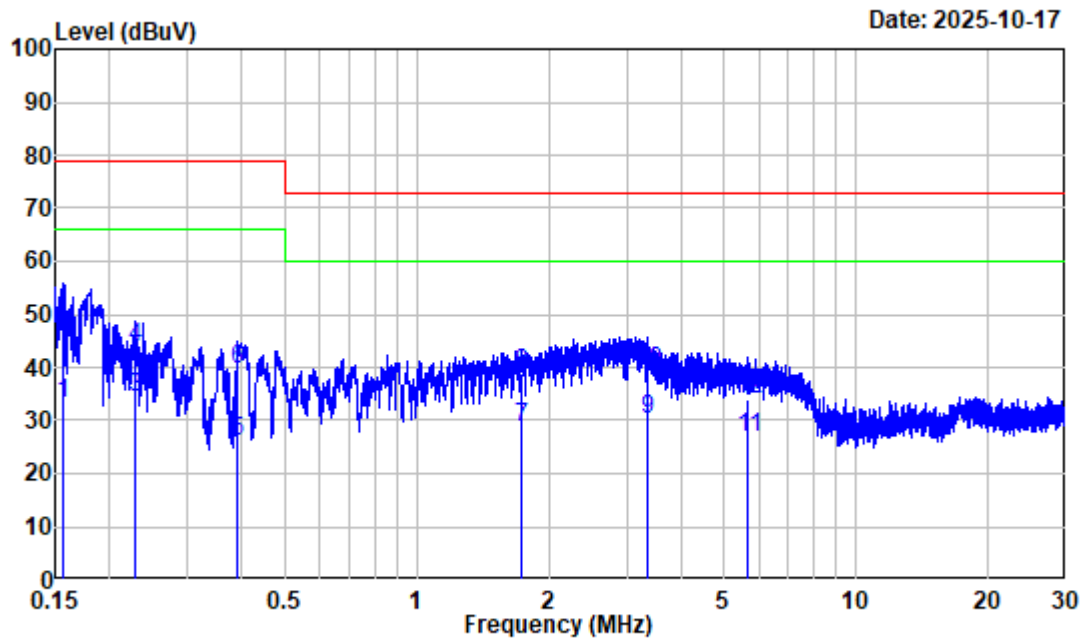
Sample Serial Number: 3B9X-1
Test Mode 1
AC 120V 60Hz, Line:



Site : Shielding Room
Condition : Line
Project No. : 2504Y33060E-EM
Tester : Jason Fan
Test Mode : Test Mode 1
Receiver Setting: IF B/W 9kHz PK/AV

	Freq	Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB
1	0.155	19.95	14.10	34.05	66.00	-31.95 Average
2	0.155	19.95	27.26	47.21	79.00	-31.79 QP
3	0.228	19.97	14.82	34.79	66.00	-31.21 Average
4	0.228	19.97	23.97	43.94	79.00	-35.06 QP
5	0.324	20.00	2.97	22.97	66.00	-43.03 Average
6	0.324	20.00	13.51	33.51	79.00	-45.49 QP
7	1.595	20.45	7.83	28.28	60.00	-31.72 Average
8	1.595	20.45	16.75	37.20	73.00	-35.80 QP
9	3.161	21.16	9.85	31.01	60.00	-28.99 Average
10	3.161	21.16	18.41	39.57	73.00	-33.43 QP
11	5.249	21.75	5.71	27.46	60.00	-32.54 Average
12	5.249	21.75	13.17	34.92	73.00	-38.08 QP

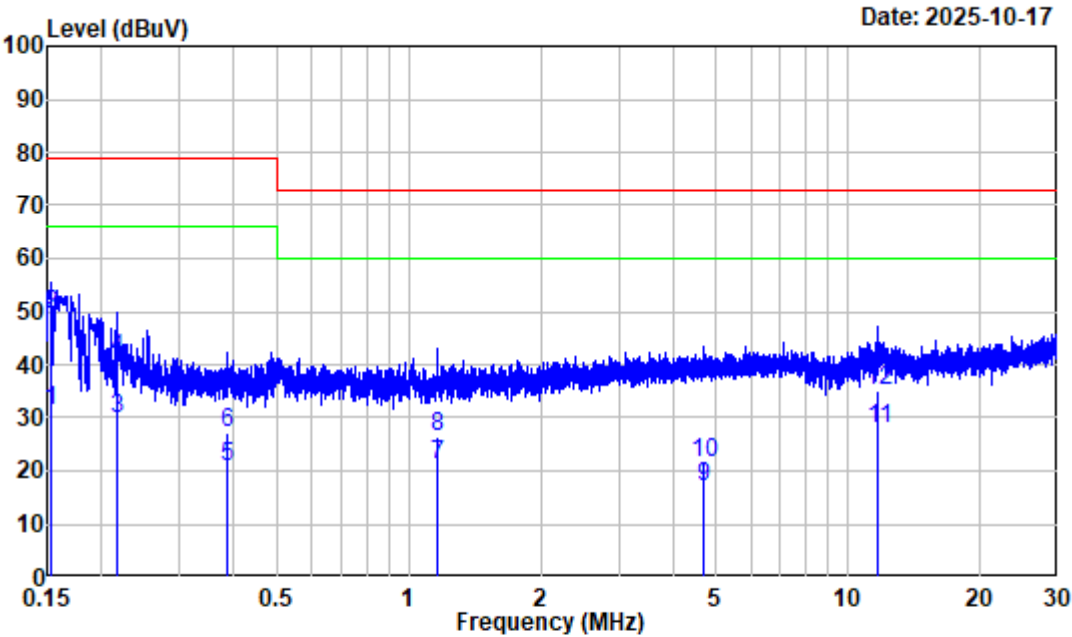
AC 120V 60Hz, Neutral:



Site : Shielding Room
Condition : Neutral
Project No. : 2504Y33060E-EM
Tester : Jason Fan
Test Mode : Test Mode 1
Receiver Setting: IF B/W 9kHz PK/AV

	Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.157	19.85	13.40	33.25	66.00	-32.75	Average
2	0.157	19.85	25.73	45.58	79.00	-33.42	QP
3	0.229	19.93	14.28	34.21	66.00	-31.79	Average
4	0.229	19.93	23.69	43.62	79.00	-35.38	QP
5	0.389	19.96	6.05	26.01	66.00	-39.99	Average
6	0.389	19.96	19.77	39.73	79.00	-39.27	QP
7	1.734	20.82	7.79	28.61	60.00	-31.39	Average
8	1.734	20.82	17.95	38.77	73.00	-34.23	QP
9	3.344	21.24	8.87	30.11	60.00	-29.89	Average
10	3.344	21.24	17.86	39.10	73.00	-33.90	QP
11	5.676	21.90	5.07	26.97	60.00	-33.03	Average
12	5.676	21.90	12.16	34.06	73.00	-38.94	QP

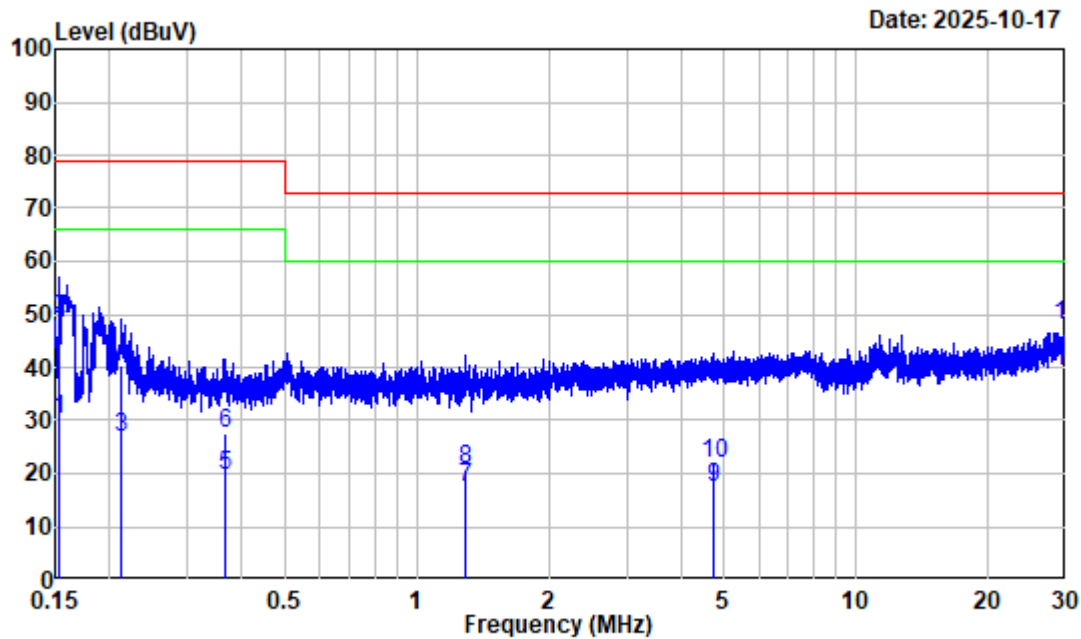
Test Mode 2
AC 120V 60Hz, Line:



Site : Shielding Room
Condition : Line
Project No. : 2504Y33060E-EM
Tester : Jason Fan
Test Mode : Test Mode 2
Receiver Setting: IF B/W 9kHz PK/AV

	Freq Factor		Read	Limit	Over	Remark
	MHz	dB	Level	Line	Limit	
	MHz	dB	dBuV	dBuV	dBuV	dB
1	0.153	19.96	11.25	31.21	66.00	-34.79 Average
2	0.153	19.96	29.54	49.50	79.00	-29.50 QP
3	0.216	19.98	9.82	29.80	66.00	-36.20 Average
4	0.216	19.98	21.28	41.26	79.00	-37.74 QP
5	0.387	20.03	0.60	20.63	66.00	-45.37 Average
6	0.387	20.03	7.23	27.26	79.00	-51.74 QP
7	1.165	20.38	0.74	21.12	60.00	-38.88 Average
8	1.165	20.38	5.86	26.24	73.00	-46.76 QP
9	4.690	21.64	-4.61	17.03	60.00	-42.97 Average
10	4.690	21.64	0.01	21.65	73.00	-51.35 QP
11	11.698	23.05	4.93	27.98	60.00	-32.02 Average
12	11.698	23.05	12.13	35.18	73.00	-37.82 QP

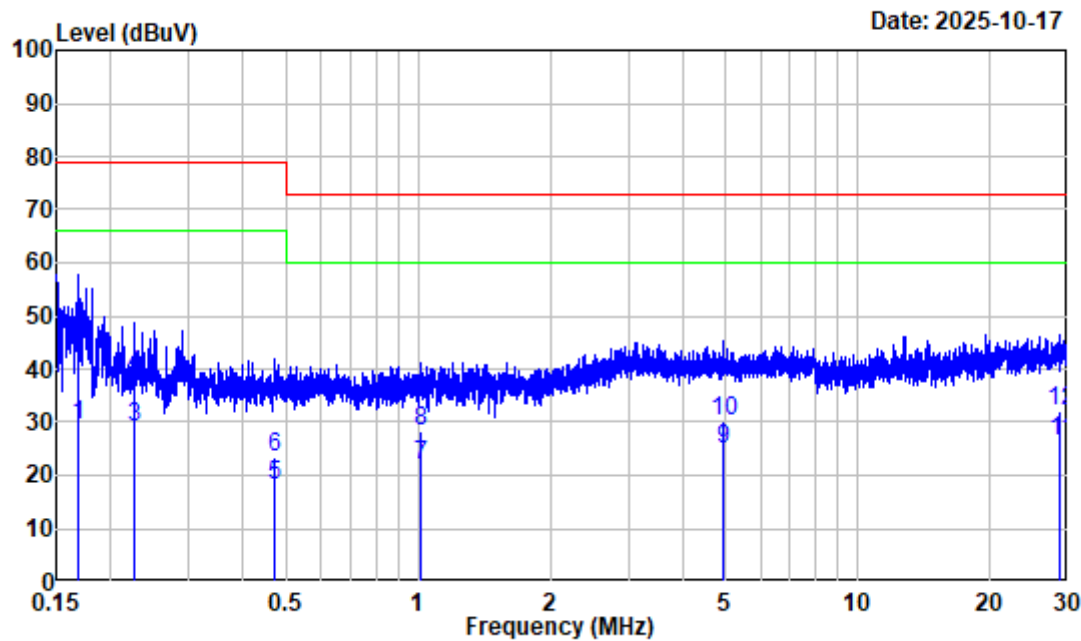
AC 120V 60Hz, Neutral:



Site : Shielding Room
Condition : Neutral
Project No. : 2504Y33060E-EM
Tester : Jason Fan
Test Mode : Test Mode 2
Receiver Setting: IF B/W 9kHz PK/AV

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.153	19.87	10.50	30.37	66.00	-35.63	Average
2	0.153	19.87	29.07	48.94	79.00	-30.06	QP
3	0.212	19.92	6.80	26.72	66.00	-39.28	Average
4	0.212	19.92	20.43	40.35	79.00	-38.65	QP
5	0.365	19.92	-0.28	19.64	66.00	-46.36	Average
6	0.365	19.92	7.63	27.55	79.00	-51.45	QP
7	1.295	20.63	-3.35	17.28	60.00	-42.72	Average
8	1.295	20.63	0.17	20.80	73.00	-52.20	QP
9	4.750	21.61	-4.30	17.31	60.00	-42.69	Average
10	4.750	21.61	0.29	21.90	73.00	-51.10	QP
11	30.000	25.07	14.36	39.43	60.00	-20.57	Average
12	30.000	25.07	22.67	47.74	73.00	-25.26	QP

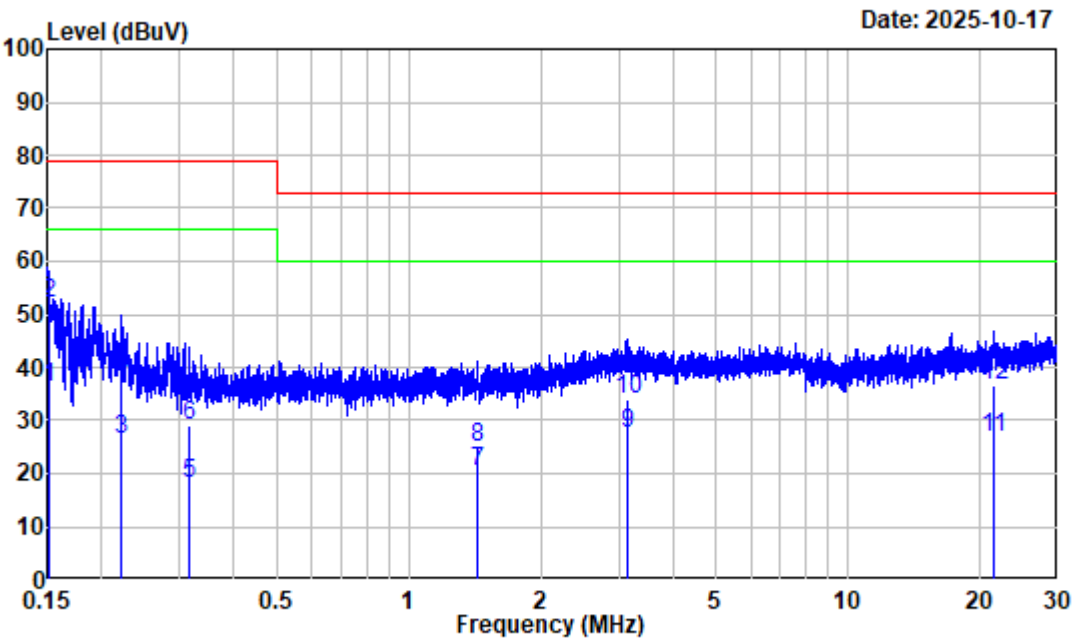
Sample Serial Number: 3B9X-2
Test Mode 1
AC 120V 60Hz, Line:



Site : Shielding Room
Condition : Line
Project No. : 2504Y33060E-EM
Tester : Jason Fan
Test Mode : Test Mode 1
Receiver Setting: IF B/W 9kHz PK/AV

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.168	19.84	9.74	29.58	66.00	-36.42	Average
2	0.168	19.84	25.41	45.25	79.00	-33.75	QP
3	0.225	19.97	9.28	29.25	66.00	-36.75	Average
4	0.225	19.97	18.90	38.87	79.00	-40.13	QP
5	0.471	20.00	-2.05	17.95	66.00	-48.05	Average
6	0.471	20.00	3.25	23.25	79.00	-55.75	QP
7	1.016	20.35	1.39	21.74	60.00	-38.26	Average
8	1.016	20.35	7.81	28.16	73.00	-44.84	QP
9	4.926	21.69	3.03	24.72	60.00	-35.28	Average
10	4.926	21.69	8.60	30.29	73.00	-42.71	QP
11	28.869	24.84	1.69	26.53	60.00	-33.47	Average
12	28.869	24.84	7.29	32.13	73.00	-40.87	QP

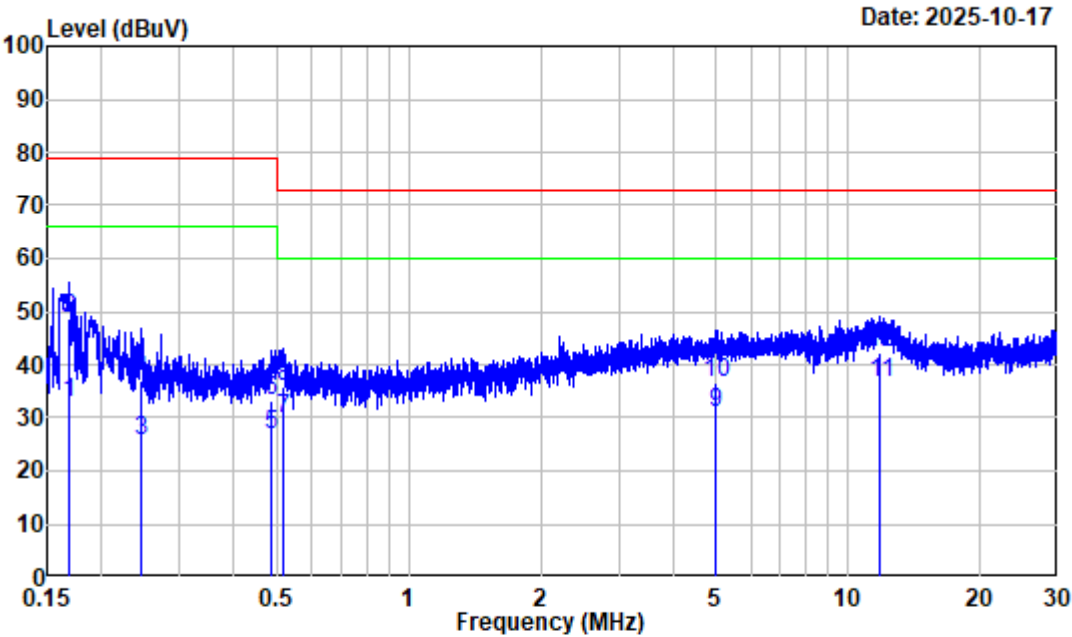
AC 120V 60Hz, Neutral:



Site : Shielding Room
Condition : Neutral
Project No. : 2504Y33060E-EM
Tester : Jason Fan
Test Mode : Test Mode 1
Receiver Setting: IF B/W 9kHz PK/AV

	Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.152	19.87	16.27	36.14	66.00	-29.86	Average
2	0.152	19.87	32.25	52.12	79.00	-26.88	QP
3	0.222	19.92	6.31	26.23	66.00	-39.77	Average
4	0.222	19.92	18.13	38.05	79.00	-40.95	QP
5	0.316	19.96	-2.01	17.95	66.00	-48.05	Average
6	0.316	19.96	9.02	28.98	79.00	-50.02	QP
7	1.436	20.69	-0.21	20.48	60.00	-39.52	Average
8	1.436	20.69	4.39	25.08	73.00	-47.92	QP
9	3.136	21.20	6.47	27.67	60.00	-32.33	Average
10	3.136	21.20	12.93	34.13	73.00	-38.87	QP
11	21.429	24.18	2.78	26.96	60.00	-33.04	Average
12	21.429	24.18	12.28	36.46	73.00	-36.54	QP

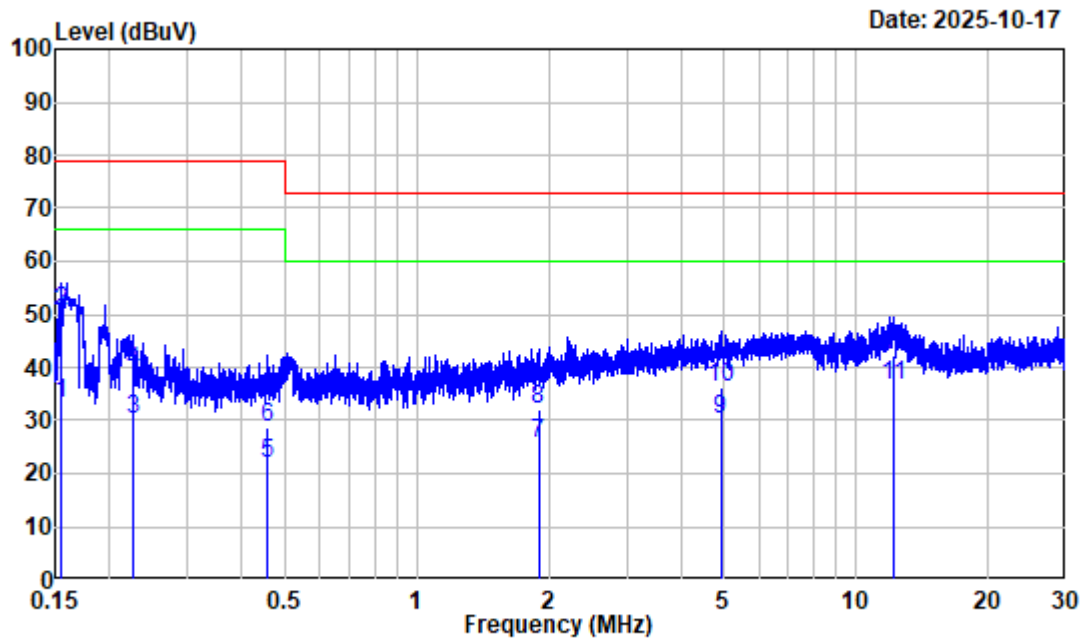
Test Mode 2
AC 120V 60Hz, Line:



Site : Shielding Room
Condition : Line
Project No. : 2504Y33060E-EM
Tester : Jason Fan
Test Mode : Test Mode 2
Receiver Setting: IF B/W 9kHz PK/AV

	Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.168	19.85	13.12	32.97	66.00	-33.03	Average
2	0.168	19.85	28.92	48.77	79.00	-30.23	QP
3	0.247	19.95	5.58	25.53	66.00	-40.47	Average
4	0.247	19.95	17.05	37.00	79.00	-42.00	QP
5	0.484	19.99	6.82	26.81	66.00	-39.19	Average
6	0.484	19.99	13.19	33.18	79.00	-45.82	QP
7	0.519	20.01	9.78	29.79	60.00	-30.21	Average
8	0.519	20.01	15.79	35.80	73.00	-37.20	QP
9	4.995	21.71	9.15	30.86	60.00	-29.14	Average
10	4.995	21.71	14.90	36.61	73.00	-36.39	QP
11	11.815	23.06	13.53	36.59	60.00	-23.41	Average
12	11.815	23.06	19.16	42.22	73.00	-30.78	QP

AC 120V 60Hz, Neutral:



Site : Shielding Room
Condition : Neutral
Project No. : 2504Y33060E-EM
Tester : Jason Fan
Test Mode : Test Mode 2
Receiver Setting: IF B/W 9kHz PK/AV

	Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.154	19.86	13.21	33.07	66.00	-32.93	Average
2	0.154	19.86	30.73	50.59	79.00	-28.41	QP
3	0.225	19.93	10.11	30.04	66.00	-35.96	Average
4	0.225	19.93	19.23	39.16	79.00	-39.84	QP
5	0.455	20.01	1.69	21.70	66.00	-44.30	Average
6	0.455	20.01	8.56	28.57	79.00	-50.43	QP
7	1.890	20.88	4.70	25.58	60.00	-34.42	Average
8	1.890	20.88	11.07	31.95	73.00	-41.05	QP
9	4.913	21.67	8.56	30.23	60.00	-29.77	Average
10	4.913	21.67	14.65	36.32	73.00	-36.68	QP
11	12.124	23.21	13.38	36.59	60.00	-23.41	Average
12	12.124	23.21	18.95	42.16	73.00	-30.84	QP

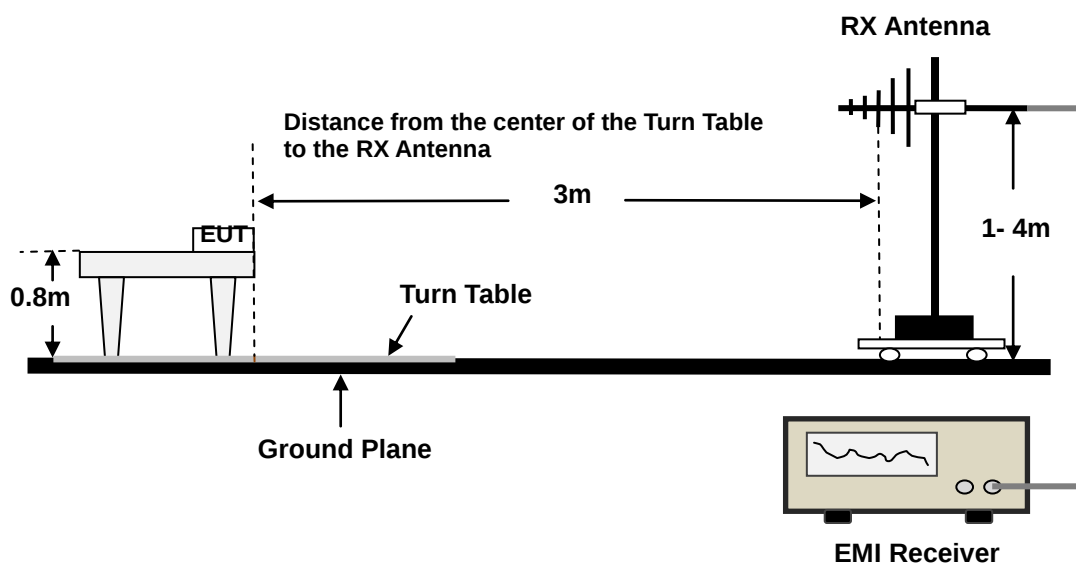
FCC §15.109-RADIATED EMISSIONS

Applicable Standard

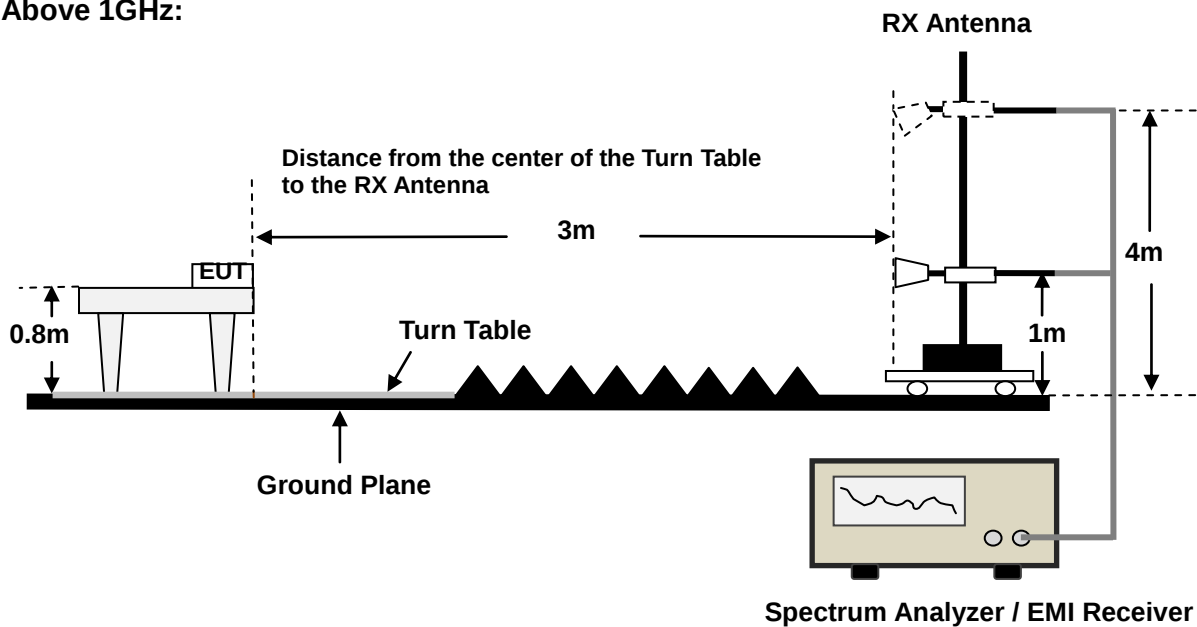
FCC §15.109

EUT Setup

30MHz - 1GHz:



Above 1GHz:



Boundary of the EUT, local AE and associated cabling and measurement distance for radiated emissions measurements:

The central point of the arrangement shall be positioned at the centre of the turntable. The measurement distance is the shortest horizontal distance between an imaginary circular periphery just encompassing this arrangement and the calibration point of the antenna. See as below Figure C.1 and C.2.

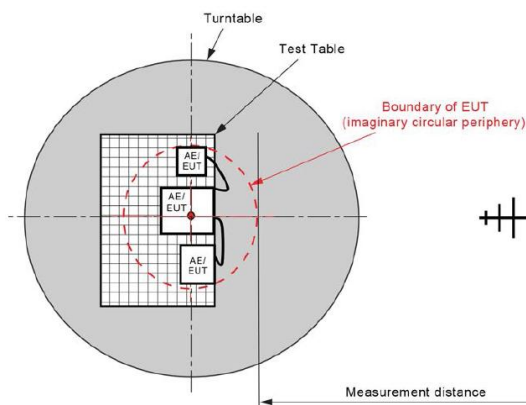


Figure C.1 – Measurement distance

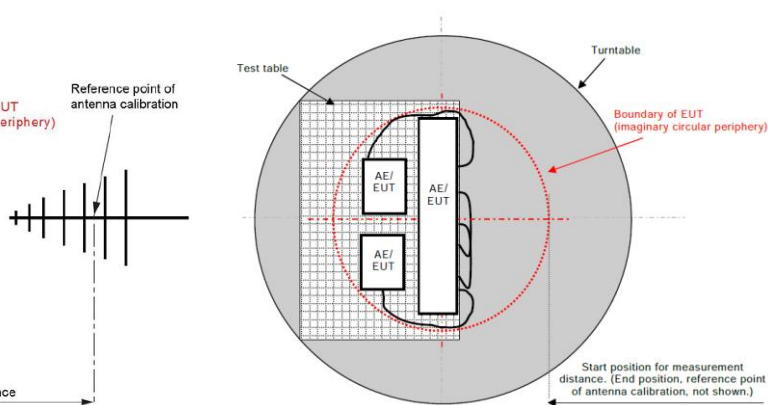


Figure C.2 – Boundary of EUT, Local AE and associated cabling

The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15.109 Class A limits.

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 & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 5 GHz.

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

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

Note 1: For below 1GHz testing, if the maximized peak measured value complies with the limit, then it is unnecessary to perform QP measurement.

Note 2: For above 1GHz testing, the peak value is low than AV limit, then the result is unnecessary to perform Peak/AV measurement.

Note 3: Other emissions which were more than 20dB below to the limit or on noise floor level was not recorded.

Required highest measurement frequency for radiated emissions:

Highest frequency generated or used in the device or on which the device operates or tunes(MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 40GHz, whichever is lower

Test Procedure

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

Calculation

The Factor 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:

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

The “**Over Limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over limit of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

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

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

Test Data

Environmental Conditions

Temperature:	24.7-25.3 °C
Relative Humidity:	54-58 %
ATM Pressure:	101.1 kPa

The Below 1GHz testing was performed by Colin Lin on 2025-11-06.

The Above 1GHz testing was performed by Angel Chen on 2025-11-17.

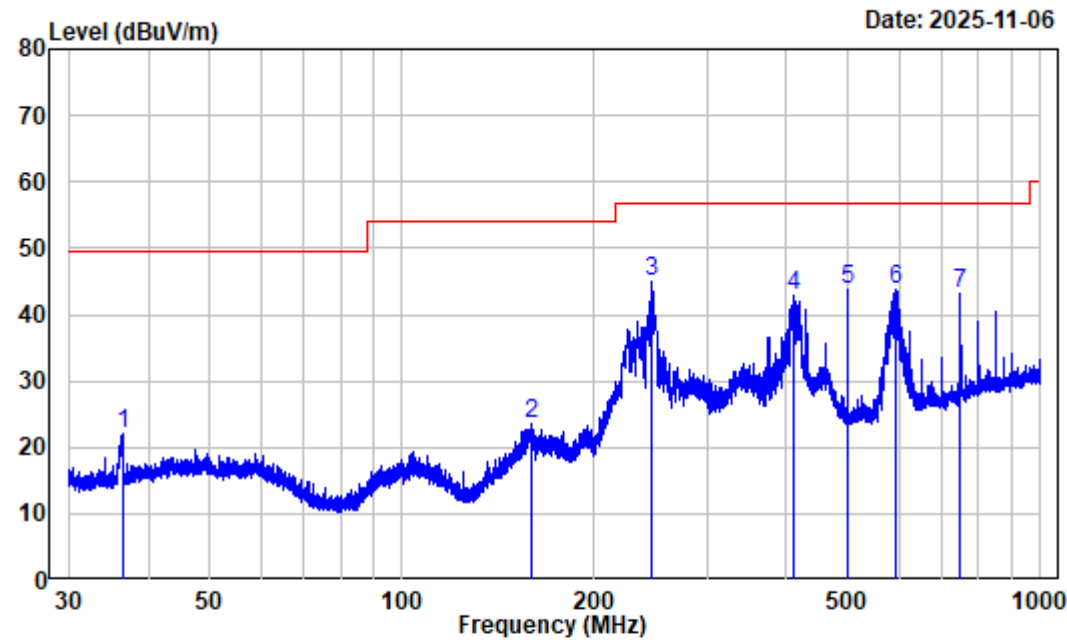
EUT operation mode: Test mode 1&2

Test Result: Compliance, please refer to the following data.

Note: Pre-scan in the X, Y and Z axes of orientation, the worst case X-axis of orientation was recorded.

Sample Serial Number: 3B9X-1
Test Mode 1
Below 1GHz

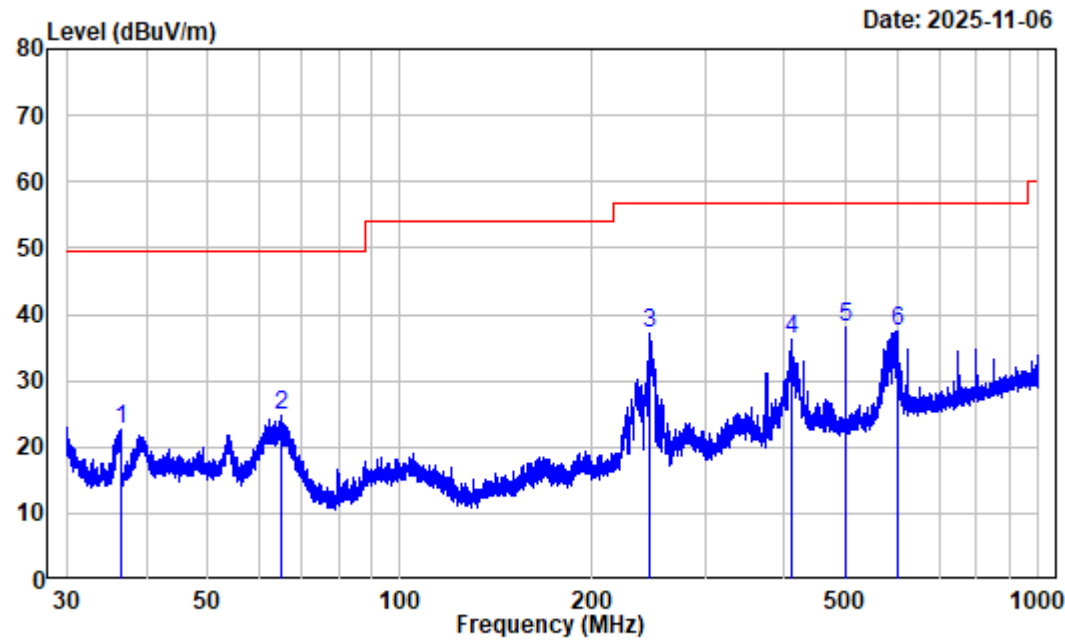
Horizontal



Site : Chamber
Condition : 3m HORIZONTAL
Job No. : 2504Y33060E-EM Tester: Colin Lin
Test Mode : Test Mode 1
Receiver Setting: RBW:100kHz VBW:300kHz

	Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	36.461	-11.36	33.29	21.93	49.54	-27.61	Peak
2	159.155	-14.10	37.77	23.67	53.98	-30.31	Peak
3	246.167	-10.03	55.13	45.10	56.90	-11.80	Peak
4	410.923	-5.54	48.34	42.80	56.90	-14.10	Peak
5	500.082	-3.79	47.50	43.71	56.90	-13.19	Peak
6	595.394	-2.20	46.12	43.92	56.90	-12.98	Peak
7	750.108	-0.02	43.05	43.03	56.90	-13.87	Peak

Vertical

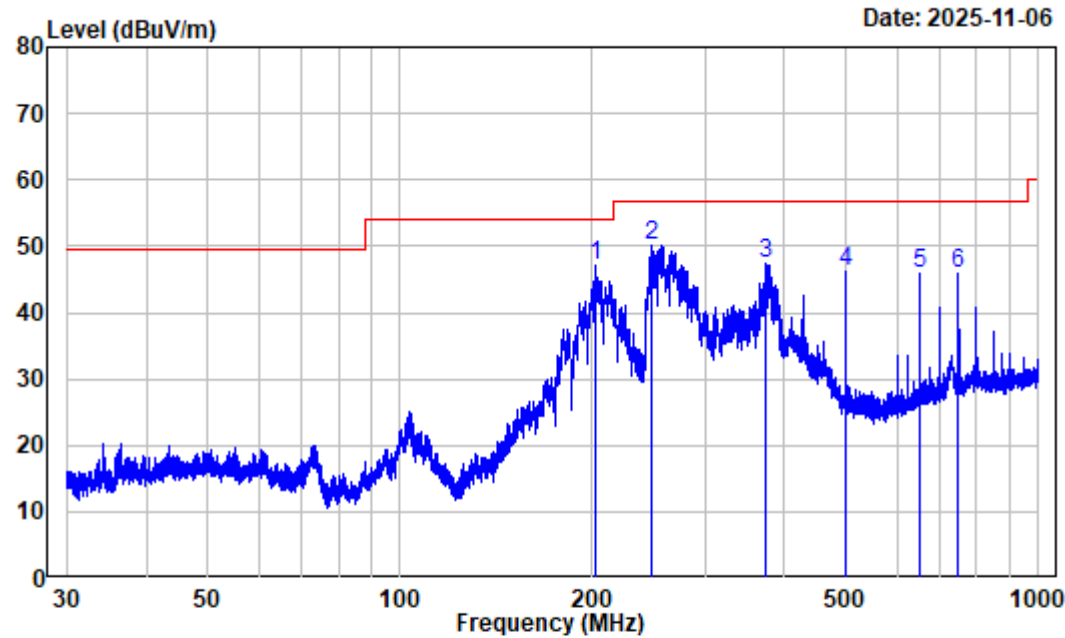


Site : Chamber
Condition : 3m VERTICAL
Job No. : 2504Y33060E-EM Tester: Colin Lin
Test Mode : Test Mode 1
Receiver Setting: RBW:100kHz VBW:300kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	36.429	-11.36	33.97	22.61	49.54	-26.93	Peak
2	65.172	-12.46	37.24	24.78	49.54	-24.76	Peak
3	246.059	-10.03	47.06	37.03	56.90	-19.87	Peak
4	410.562	-5.56	41.64	36.08	56.90	-20.82	Peak
5	500.082	-3.79	41.90	38.11	56.90	-18.79	Peak
6	600.110	-1.99	39.40	37.41	56.90	-19.49	Peak

Test Mode 2
Below 1GHz

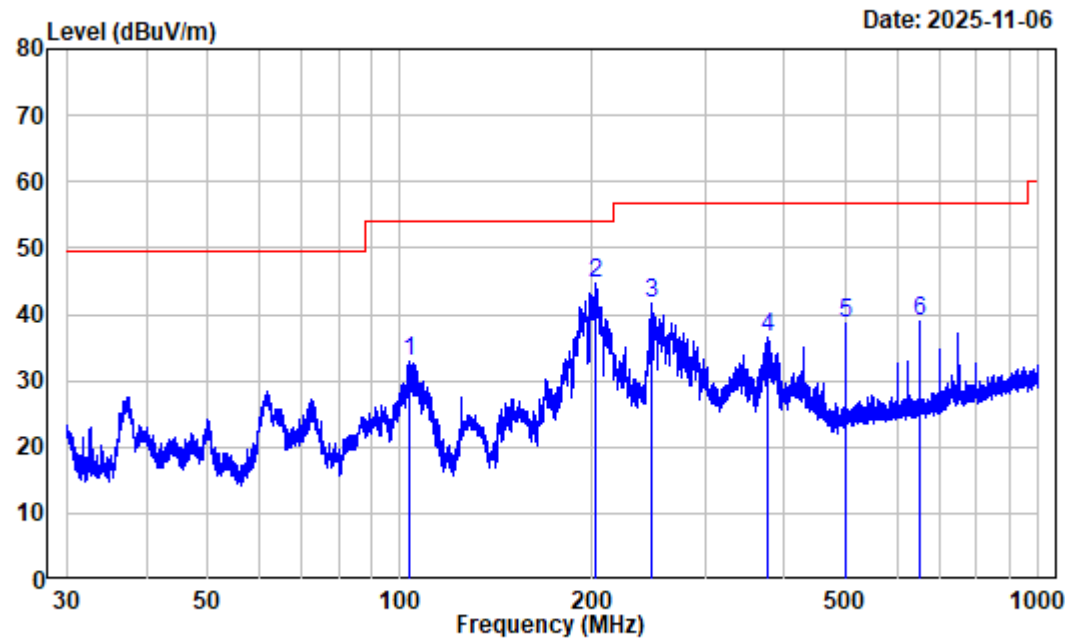
Horizontal



Site : Chamber
Condition : 3m HORIZONTAL
Job No. : 2504Y33060E-EM Tester: Colin Lin
Test Mode : Test Mode 2
Receiver Setting: RBW:100kHz VBW:300kHz

	Freq Factor		Read Level	Level	Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	201.923	-10.66	57.71	47.05	53.98	-6.93	Peak
2	247.248	-10.04	60.21	50.17	56.90	-6.73	Peak
3	374.951	-6.78	54.24	47.46	56.90	-9.44	Peak
4	500.082	-3.79	49.98	46.19	56.90	-10.71	Peak
5	650.229	-1.32	47.08	45.76	56.90	-11.14	Peak
6	750.108	-0.02	45.97	45.95	56.90	-10.95	Peak

Vertical

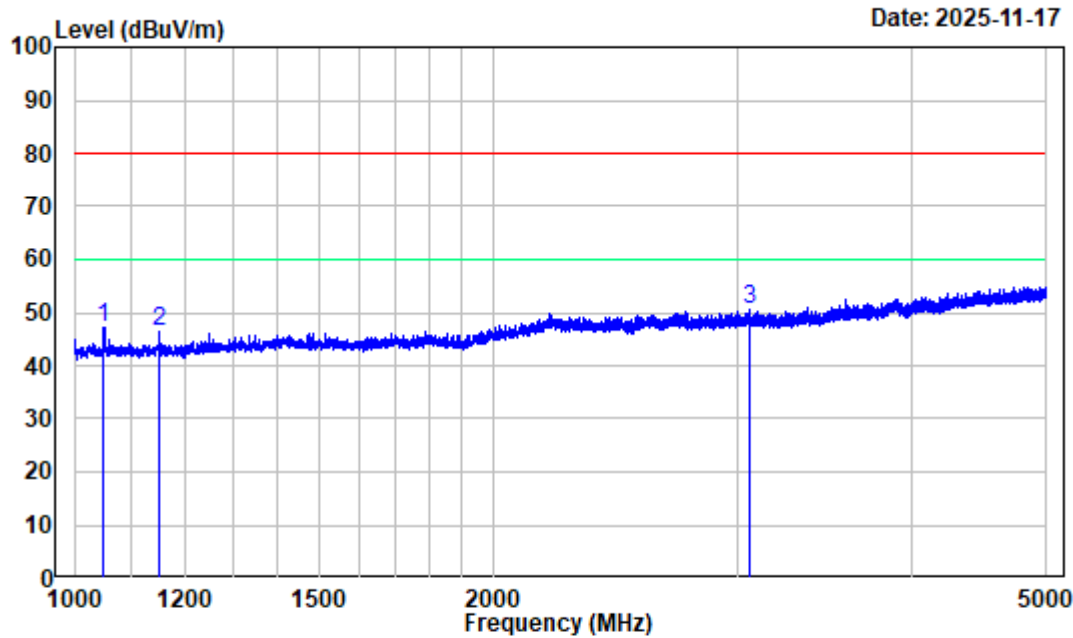


Site : Chamber
Condition : 3m VERTICAL
Job No. : 2504Y33060E-EM Tester: Colin Lin
Test Mode : Test Mode 2
Receiver Setting: RBW:100kHz VBW:300kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	103.669	-11.17	44.10	32.93	53.98	-21.05	Peak
2	201.923	-10.66	55.49	44.83	53.98	-9.15	Peak
3	247.899	-10.05	51.61	41.56	56.90	-15.34	Peak
4	377.259	-6.69	43.21	36.52	56.90	-20.38	Peak
5	500.082	-3.79	42.43	38.64	56.90	-18.26	Peak
6	650.229	-1.32	40.41	39.09	56.90	-17.81	Peak

Test Mode 1
Above 1GHz

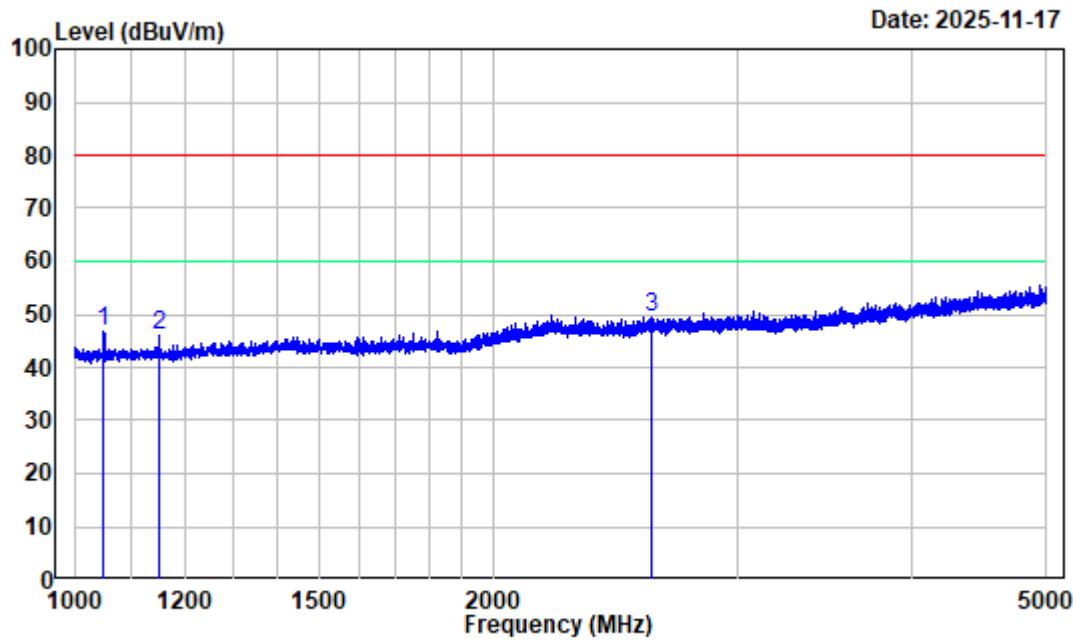
Horizontal



Site : chamber
Condition : 3m HORIZONTAL
Job No. : 2504Y33060E-EM
Test Mode : Test Mode 1
Tester : Angel Chen
Receiver Setting: Peak:RBW:1MHz VBW:3MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1050.000	-14.34	61.48	47.14	80.00	-32.86	Peak
2	1150.000	-14.18	60.46	46.28	80.00	-33.72	Peak
3	3057.500	-9.58	60.07	50.49	80.00	-29.51	Peak

Vertical

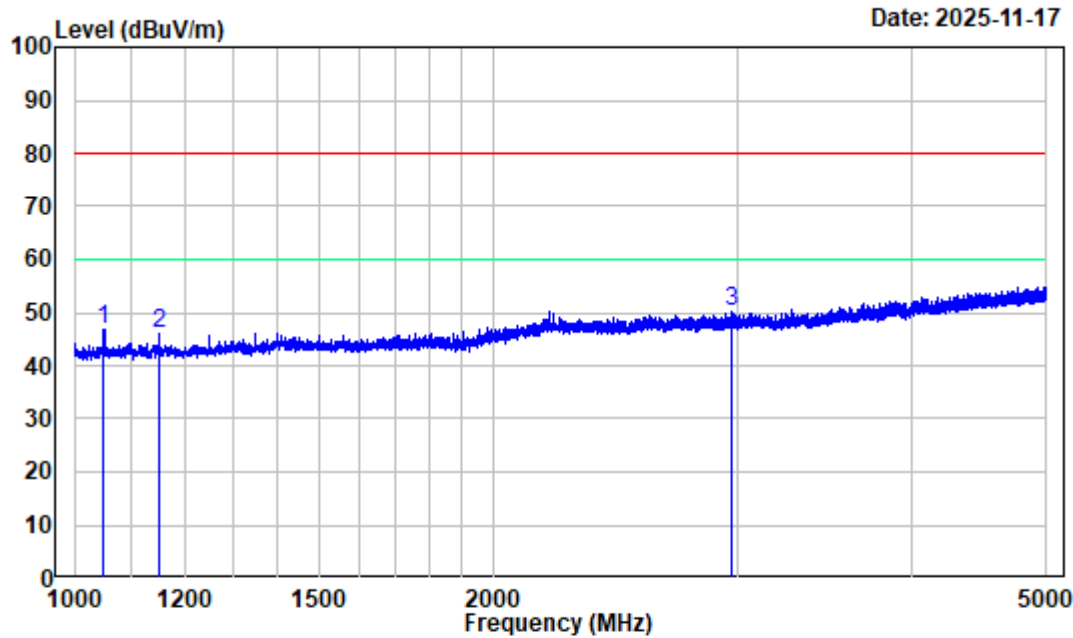


Site : chamber
Condition : 3m VERTICAL
Job No. : 2504Y33060E-EM
Test Mode : Test Mode 1
Tester : Angel Chen
Receiver Setting: Peak:RBW:1MHz VBW:3MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1049.500	-14.34	61.14	46.80	80.00	-33.20	Peak
2	1149.500	-14.18	60.27	46.09	80.00	-33.91	Peak
3	2598.000	-9.70	58.98	49.28	80.00	-30.72	Peak

Test Mode 2
Above 1GHz

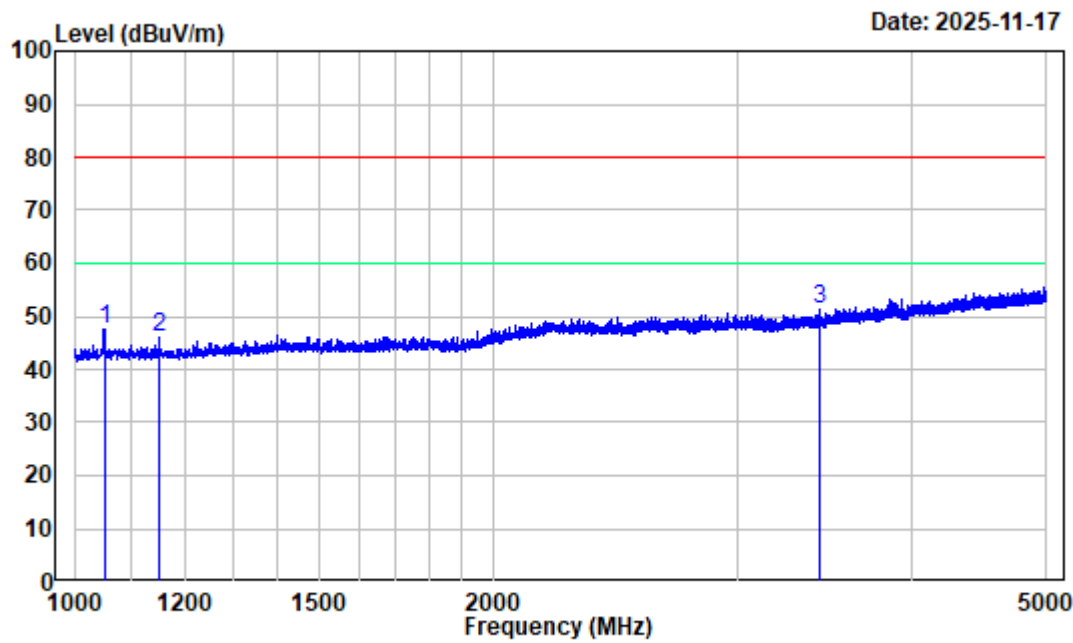
Horizontal



Site : chamber
Condition : 3m HORIZONTAL
Job No. : 2504Y33060E-EM
Test Mode : Test Mode 2
Tester : Angel Chen
Receiver Setting: Peak:RBW:1MHz VBW:3MHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1050.000	-14.34	61.29	46.95	80.00	-33.05 Peak
2	1150.000	-14.18	60.36	46.18	80.00	-33.82 Peak
3	2968.000	-9.68	60.02	50.34	80.00	-29.66 Peak

Vertical

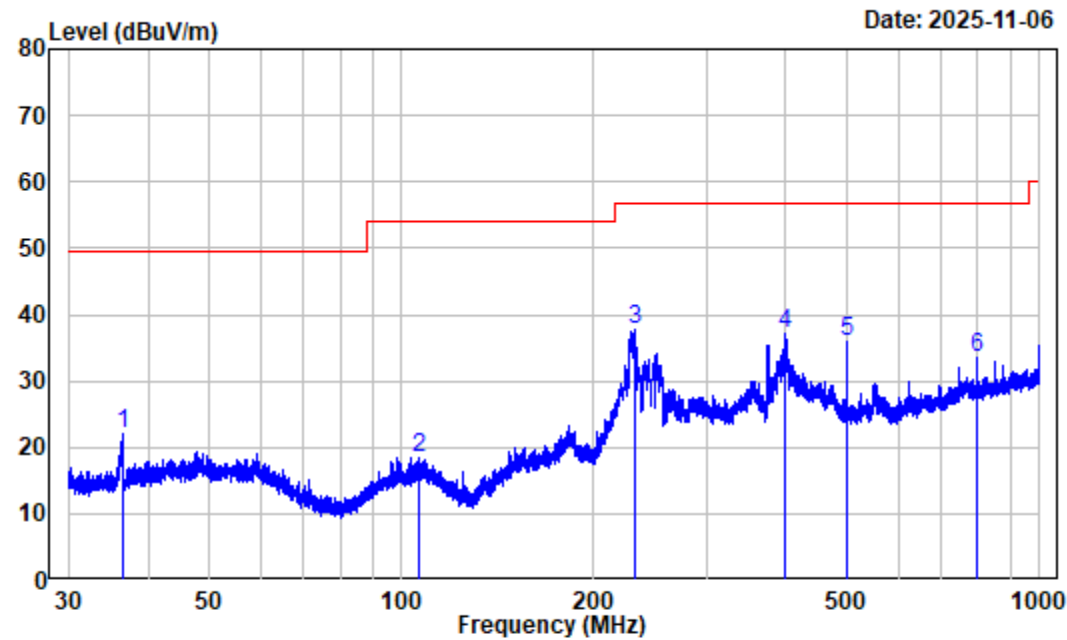


Site : chamber
Condition : 3m VERTICAL
Job No. : 2504Y33060E-EM
Test Mode : Test Mode 2
Tester : Angel Chen
Receiver Setting: Peak:RBW:1MHz VBW:3MHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1050.500	-14.34	61.97	47.63	80.00	-32.37 Peak
2	1150.000	-14.18	60.20	46.02	80.00	-33.98 Peak
3	3438.000	-9.86	61.20	51.34	80.00	-28.66 Peak

Sample Serial Number: 3B9X-2
Test Mode 1
Below 1GHz

Horizontal



Site : Chamber

Condition : 3m HORIZONTAL

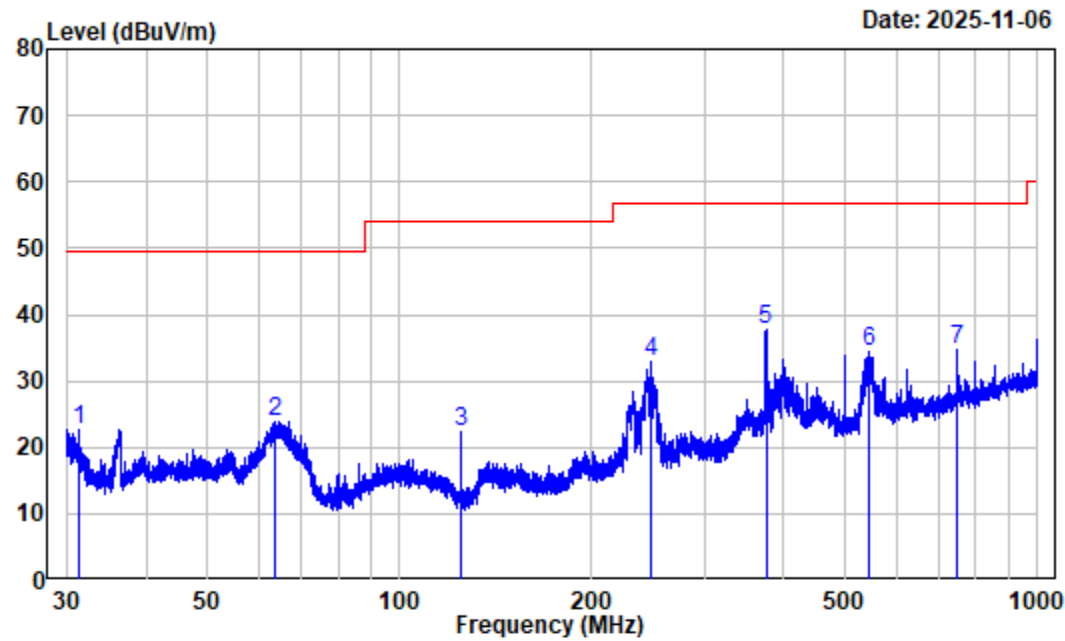
Job No. : 2504Y33060E-EM Tester: Colin Lin

Test Mode : Test Mode 1

Receiver Setting: RBW:100kHz VBW:300kHz

	Freq Factor		Read Level	Limit Level	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	36.461	-11.36	33.28	21.92	49.54	-27.62 Peak
2	106.432	-11.13	29.69	18.56	53.98	-35.42 Peak
3	232.226	-10.46	48.20	37.74	56.90	-19.16 Peak
4	400.081	-6.05	43.05	37.00	56.90	-19.90 Peak
5	500.082	-3.79	39.74	35.95	56.90	-20.95 Peak
6	800.031	0.21	33.41	33.62	56.90	-23.28 Peak

Vertical

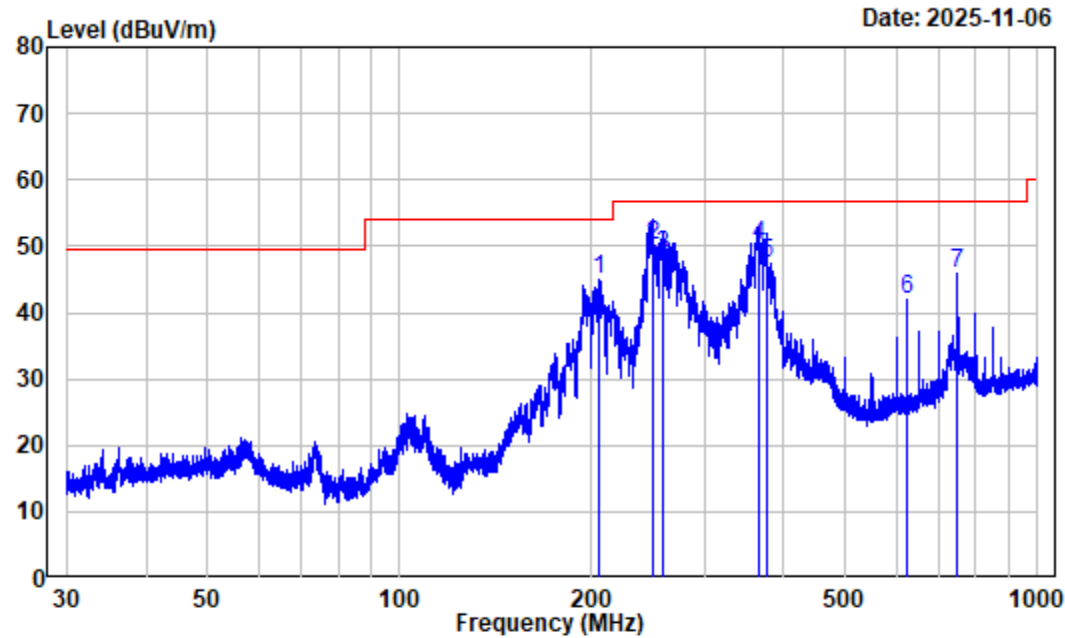


Site : Chamber
Condition : 3m VERTICAL
Job No. : 2504Y33060E-EM Tester: Colin Lin
Test Mode : Test Mode 1
Receiver Setting: RBW:100kHz VBW:300kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	31.496	-11.97	34.70	22.73	49.54	-26.81	Peak
2	63.899	-12.06	35.97	23.91	49.54	-25.63	Peak
3	125.007	-14.22	36.47	22.25	53.98	-31.73	Peak
4	247.573	-10.05	42.88	32.83	56.90	-24.07	Peak
5	375.116	-6.76	44.43	37.67	56.90	-19.23	Peak
6	542.798	-3.46	37.95	34.49	56.90	-22.41	Peak
7	750.108	-0.02	34.71	34.69	56.90	-22.21	Peak

Test Mode 2
Below 1GHz

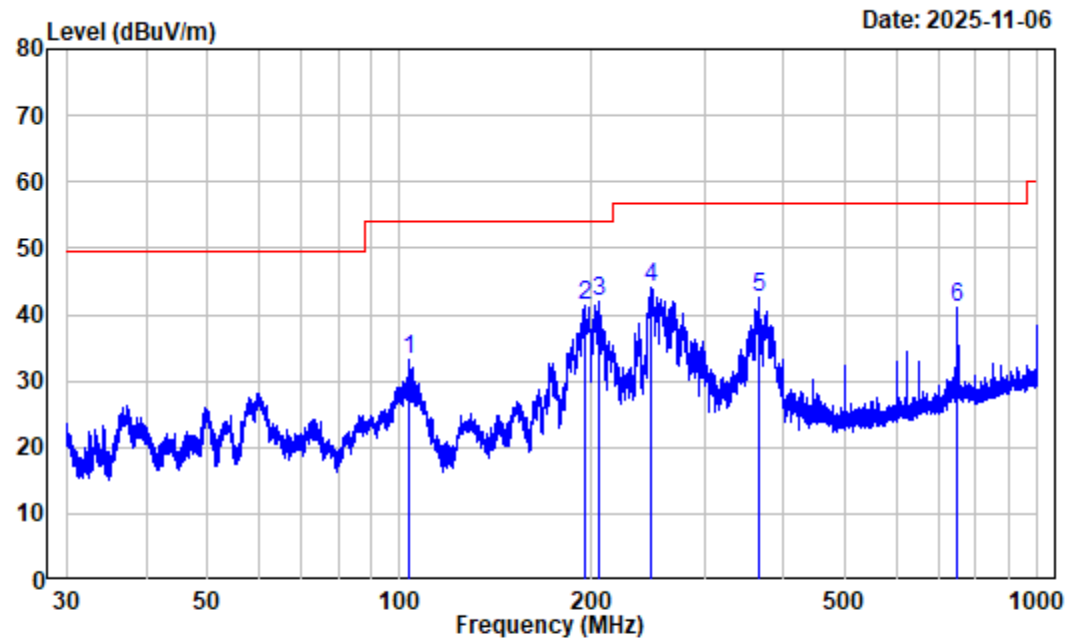
Horizontal



Site : Chamber
Condition : 3m HORIZONTAL
Job No. : 2504Y33060E-EM Tester: Colin Lin
Test Mode : Test Mode 2
Receiver Setting: RBW:100kHz VBW:300kHz

	Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	204.955	-10.70	55.59	44.89	53.98	-9.09	Peak
2	248.988	-10.06	60.20	50.14	56.90	-6.76	QP
3	259.348	-10.10	58.81	48.71	56.90	-8.19	QP
4	364.739	-7.07	57.20	50.13	56.90	-6.77	QP
5	375.280	-6.75	54.19	47.44	56.90	-9.46	QP
6	625.078	-1.72	43.73	42.01	56.90	-14.89	Peak
7	750.108	-0.02	46.04	46.02	56.90	-10.88	Peak

Vertical

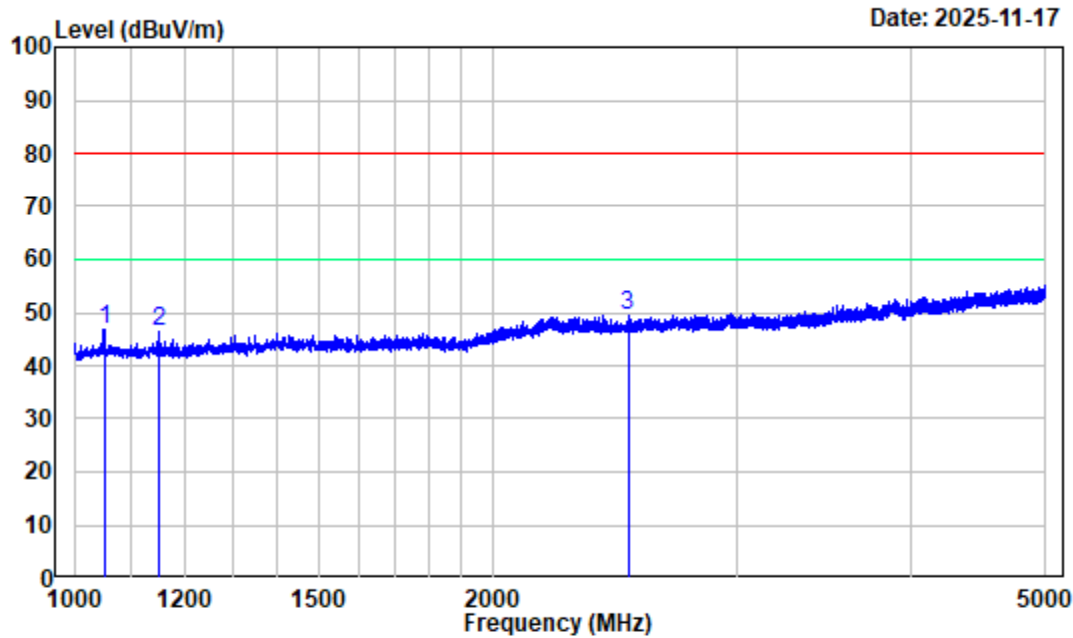


Site : Chamber
Condition : 3m VERTICAL
Job No. : 2504Y33060E-EM Tester: Colin Lin
Test Mode : Test Mode 2
Receiver Setting: RBW:100kHz VBW:300kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	103.624	-11.18	44.27	33.09	53.98	-20.89	Peak
2	194.966	-9.86	51.22	41.36	53.98	-12.62	Peak
3	205.585	-10.69	52.67	41.98	53.98	-12.00	Peak
4	248.443	-10.06	54.15	44.09	56.90	-12.81	Peak
5	366.181	-7.03	49.55	42.52	56.90	-14.38	Peak
6	750.108	-0.02	41.23	41.21	56.90	-15.69	Peak

Test Mode 1
Above 1GHz

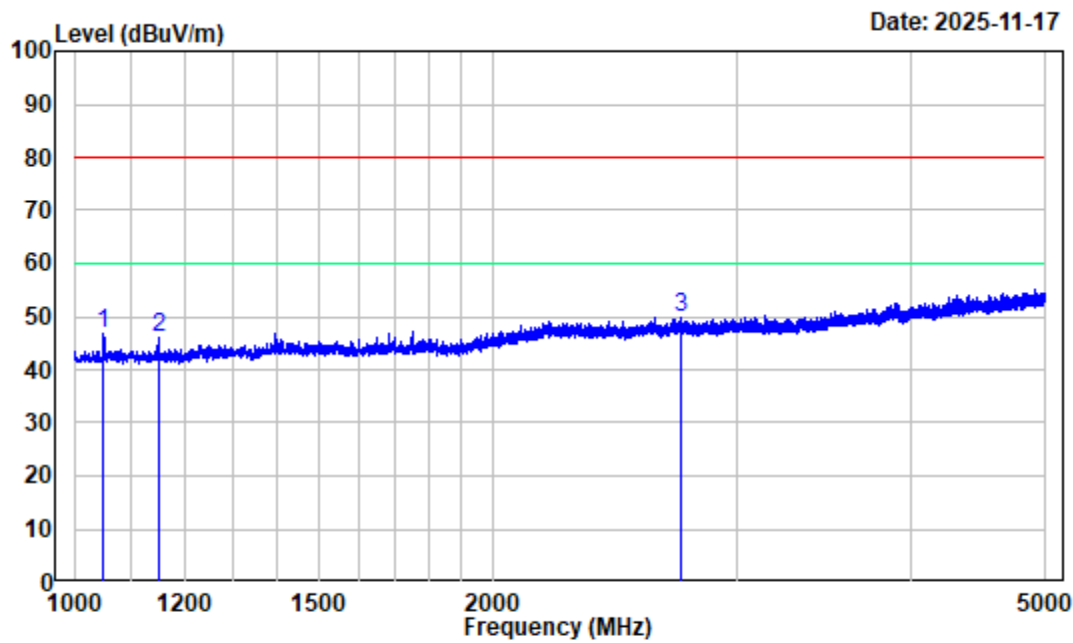
Horizontal



Site : chamber
Condition : 3m HORIZONTAL
Job No. : 2504Y33060E-EM
Test Mode : Test Mode 1
Tester : Angel Chen
Receiver Setting: Peak:RBW:1MHz VBW:3MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1050.500	-14.34	61.24	46.90	80.00	-33.10	Peak
2	1150.000	-14.18	60.53	46.35	80.00	-33.65	Peak
3	2503.000	-10.26	59.77	49.51	80.00	-30.49	Peak

Vertical

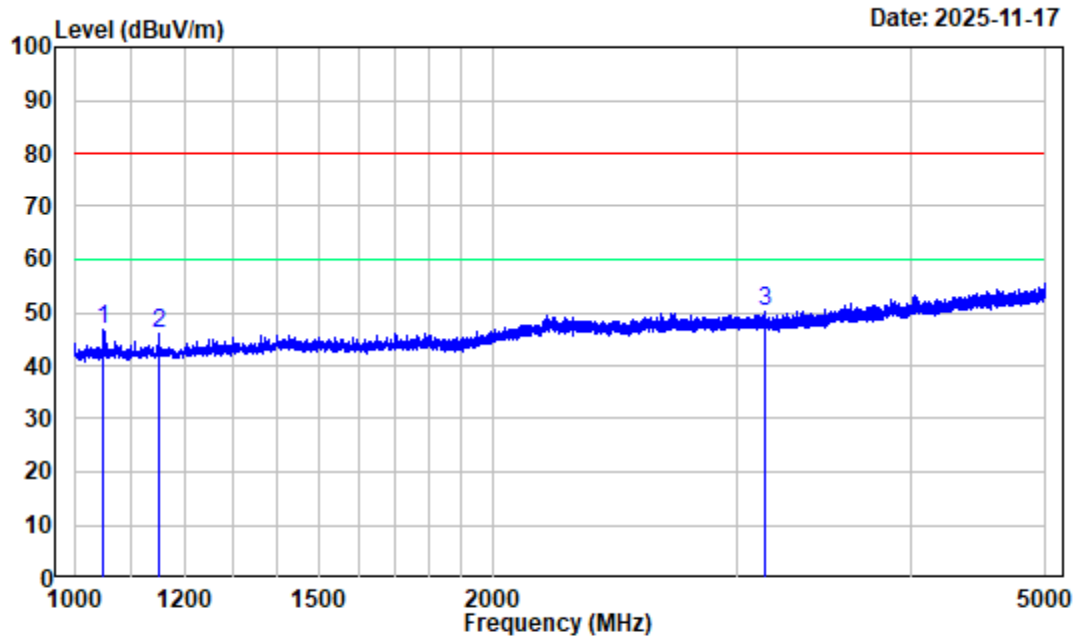


Site : chamber
Condition : 3m VERTICAL
Job No. : 2504Y33060E-EM
Test Mode : Test Mode 1
Tester : Angel Chen
Receiver Setting: Peak:RBW:1MHz VBW:3MHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1050.000	-14.34	61.09	46.75	80.00	-33.25 Peak
2	1150.000	-14.18	60.24	46.06	80.00	-33.94 Peak
3	2729.000	-9.86	59.83	49.97	80.00	-30.03 Peak

Test Mode 2
Above 1GHz

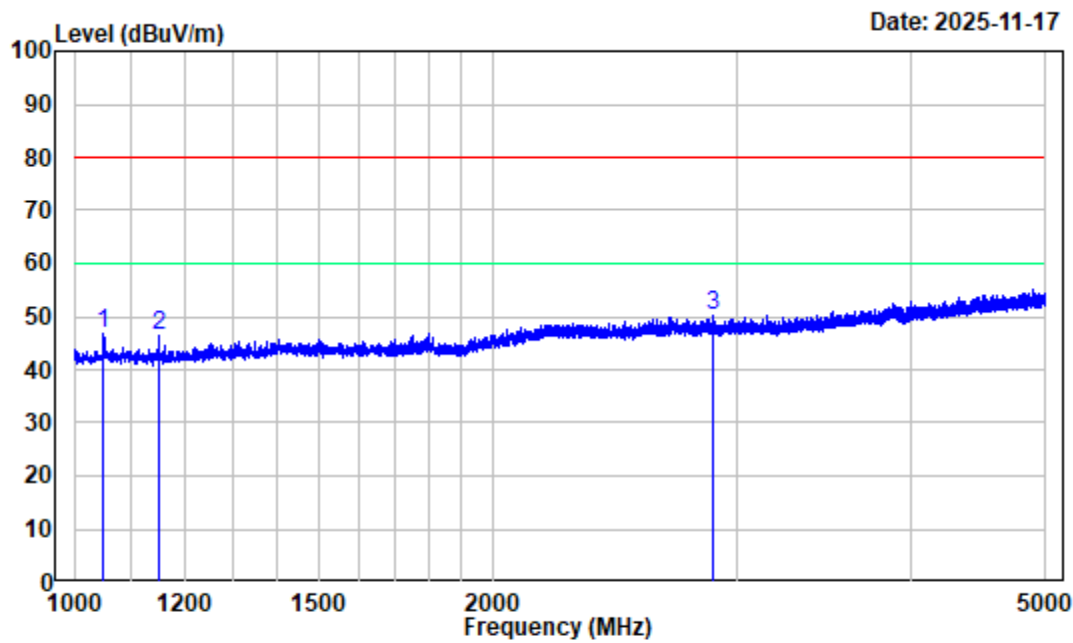
Horizontal



Site : chamber
Condition : 3m HORIZONTAL
Job No. : 2504Y33060E-EM
Test Mode : Test Mode 2
Tester : Angel Chen
Receiver Setting: Peak:RBW:1MHz VBW:3MHz

Freq Factor		Read Level	Level	Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1050.000	-14.34	61.22	46.88	80.00	-33.12 Peak
2	1150.000	-14.18	60.36	46.18	80.00	-33.82 Peak
3	3141.000	-9.76	59.78	50.02	80.00	-29.98 Peak

Vertical



Site : chamber
Condition : 3m VERTICAL
Job No. : 2504Y33060E-EM
Test Mode : Test Mode 2
Tester : Angel Chen
Receiver Setting: Peak:RBW:1MHz VBW:3MHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1050.000	-14.34	61.28	46.94	80.00	-33.06 Peak
2	1149.500	-14.18	60.54	46.36	80.00	-33.64 Peak
3	2883.000	-9.87	60.20	50.33	80.00	-29.67 Peak

EXHIBIT A-EUT PHOTOGRAPHS

Please refer to the Attachment No.1 2504Y33060E-EM EUT External Photos and Attachment No.2 2504Y33060E-EM EUT Internal Photos.

EXHIBIT B-TEST SETUP PHOTOGRAPHS

Please refer to the Attachment No.3 2504Y33060E-EM Test Photos.

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