

TEST REPORT

Applicant: ETi Solid State Lighting, Inc

Address: 720 Northgate, Parkway Wheeling, IL 60090, Illinois, United States

Product Name: FLUSH MOUNT CEILING LIGHT WITH MOTION SENSOR

FCC ID: XZH-C012632026

Standard(s): 47 CFR Part 15, Subpart C(15.249)
ANSI C63.10-2020

Report Number: 2602S22967E-RF-00A

Report Date: 2026/5/23

The above device has been tested and found compliant with the requirement of the relevant standards by Bay Area Compliance Laboratories Corp. (Dongguan).

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2602S22967E-RF-00A	Original Report	2026/5/23

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	FLUSH MOUNT CEILING LIGHT WITH MOTION SENSOR
EUT Model:	C01263301A, C01264301A, C01265301A
Multiple Model(s):	C01263@##A, C01264@##A, C01265@##A
Frequency Range:	24 -24.25GHz
Modulation Type:	FMCW
Chirp Time[▲]:	38μs
Rated Input Voltage:	AC 120V
Serial Number:	3JE0-1(Model: C01263301A) 3JE1-1(Model: C01264301A) 3JE2-1(Model: C01265301A)
EUT Received Date:	2026/4/3
EUT Received Status:	Good
Note: Please refer to the declaration letter for more detail, which was provided by manufacturer.	

1.2 Accessory Information

Accessory Description	Manufacturer	Model	Parameters
/	/	/	/

1.3 Antenna Information Detail[▲]:

Antenna Type	Frequency Range	Antenna Gain
Patch	24.00~24.25GHz	9dBi
The design of compliance with §15.203:		
☒ Unit uses a permanently attached antenna.		
☐ Unit uses a unique coupling to the intentional radiator.		
☐ Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.		

1.4 Equipment Modifications

No modifications are made to the EUT during all test items.

2. SUMMARY OF TEST RESULTS

Standard(s)/Rule(s)	Description of Test	Result
§ 15.203	Antenna Requirement	Compliant
§ 15.207(a)	AC Line Conducted Emission	Compliant
15.205, § 15.209, § 15.249	Radiated Emissions	Compliant
§ 15.215 (c)	20 dB Bandwidth	Compliant

3. DESCRIPTION OF TEST CONFIGURATION

3.1 EUT Operation Condition

The device employs FMCW modulation in the frequency range: 24-24.25GHz.

According to C63.10-2020, for FMCW modulation, measurements should use swept active.

3.2 EUT Exercise Software

The system was configured for testing in Engineering Mode, which was provided by the manufacturer.

3.3 Support Equipment List and Details

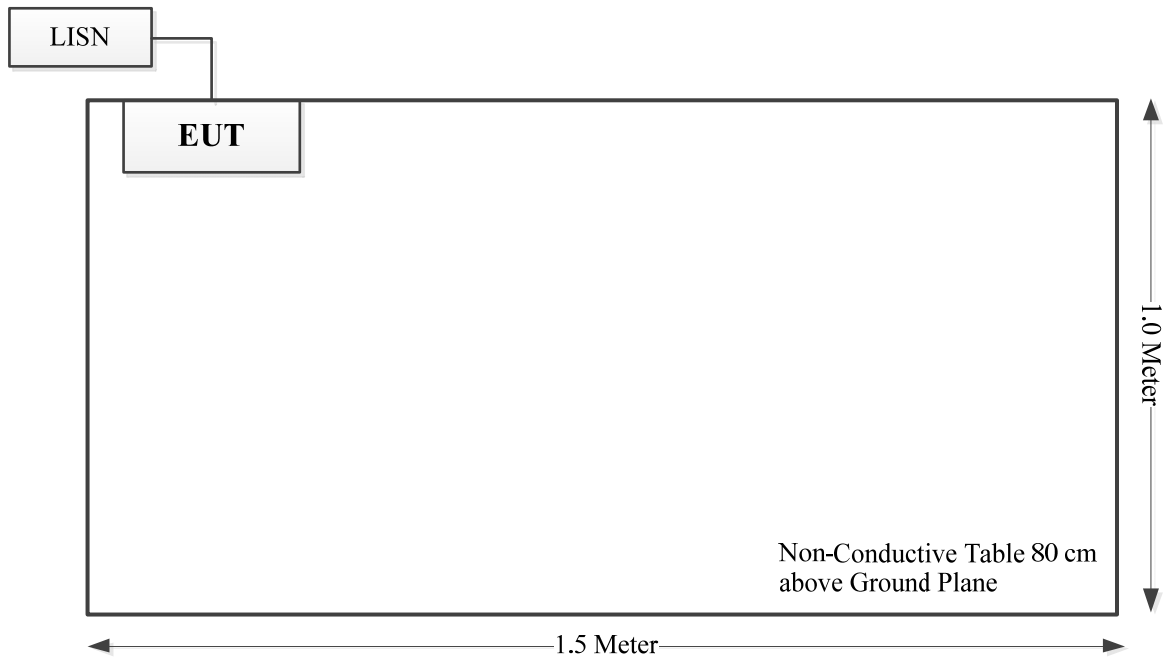
Manufacturer	Description	Model	Serial Number
/	/	/	/

3.4 Support Cable List and Details

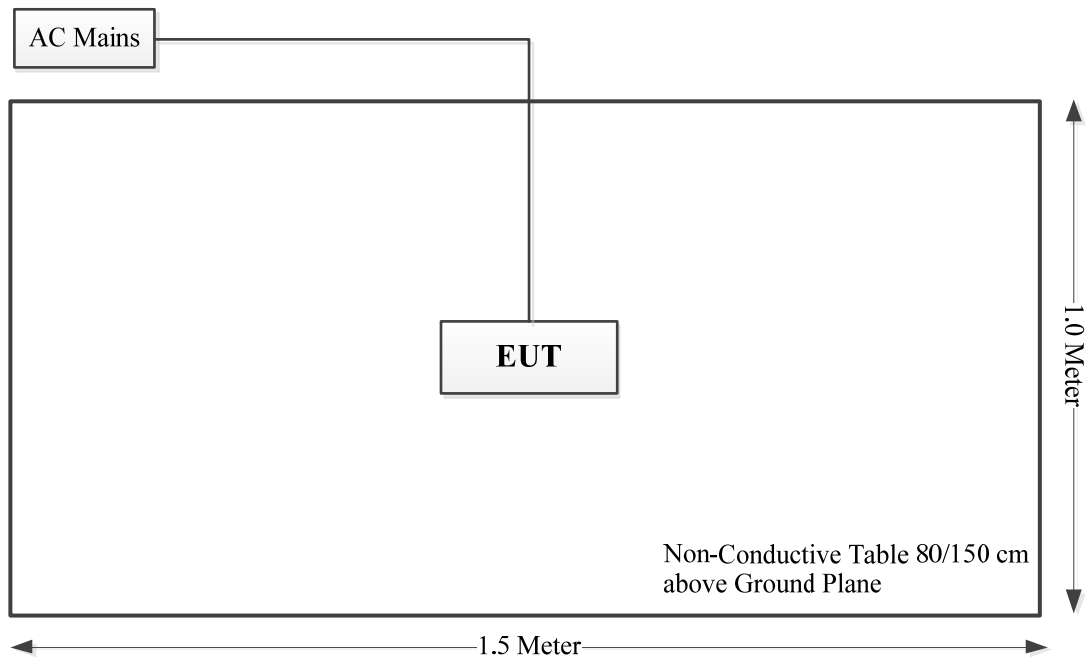
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
AC power Cable	No	No	1	AC Mains/LISN	EUT

3.5 Block Diagram of Test Setup

AC Line Conducted emissions:



Radiated Spurious emissions:



3.6 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, 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. : 829273, the FCC Designation No. : CN5044.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

3.7 Measurement Uncertainty

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

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	$\pm 5\%$
Unwanted Emissions, radiated	9kHz~30MHz: 3.06dB, 30MHz~1GHz: 6.13 dB, 1GHz~6GHz: 4.79 dB, 6GHz~18GHz: 4.63 dB, 18GHz~26.5GHz: 4.79 dB, 26.5GHz~40GHz: 4.63 dB, 40~60G: 5.65dB, 60G~90G: 5.62dB, 90G-140G: 5.62dB, 140G-220G: 5.62dB, 220G-325G: 5.62dB
Temperature	$\pm 1^{\circ}\text{C}$
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 0.4\%$
AC Power Lines Conducted Emission	2.83 dB (150 kHz to 30 MHz)

4. REQUIREMENTS AND TEST RESULTS

4.1 AC Line Conducted Emissions

4.1.1 Applicable Standard

FCC§15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).

Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

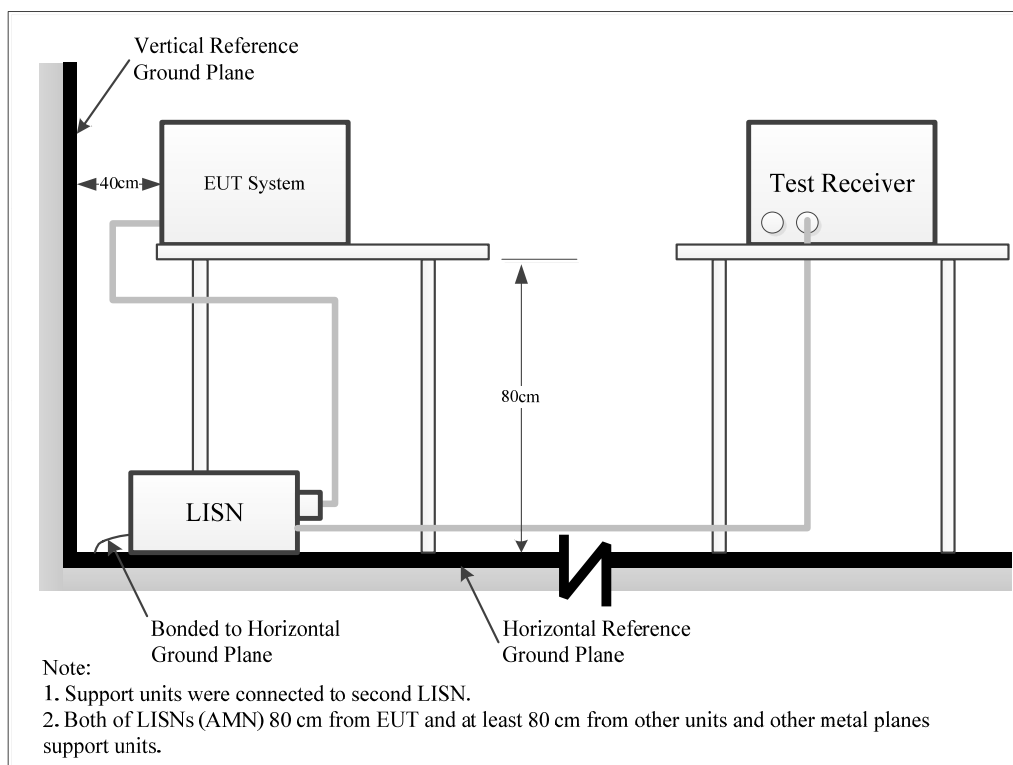
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ H/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

4.1.2 EUT Setup



The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

4.1.3 EMI Test Receiver Setup

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

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

4.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase ("hot") line(s) and (if used) on the neutral line(s), but not on the ground[protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

4.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor=attenuation caused by cable loss + voltage division factor of AMN

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

4.1.6 Test Result

Serial Number:	3JE2-1, 3JE0-1, 3JE1-1	Test Date:	2026/04/10
Test Site:	CE	Test Mode:	Transmitting
Tester:	Yolo Fan	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26	Relative Humidity: (%)	68	ATM Pressure: (kPa)	100.3
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101614	2025/6/25	2026/6/24
Unknown	Coaxial Cable	RG 142	C-0200-05	2025/5/6	2026/5/5
Audix	Test Software	E3	191218 V9	N/A	N/A
R&S	EMI Test Receiver	ESCI	100224	2025/6/25	2026/6/24

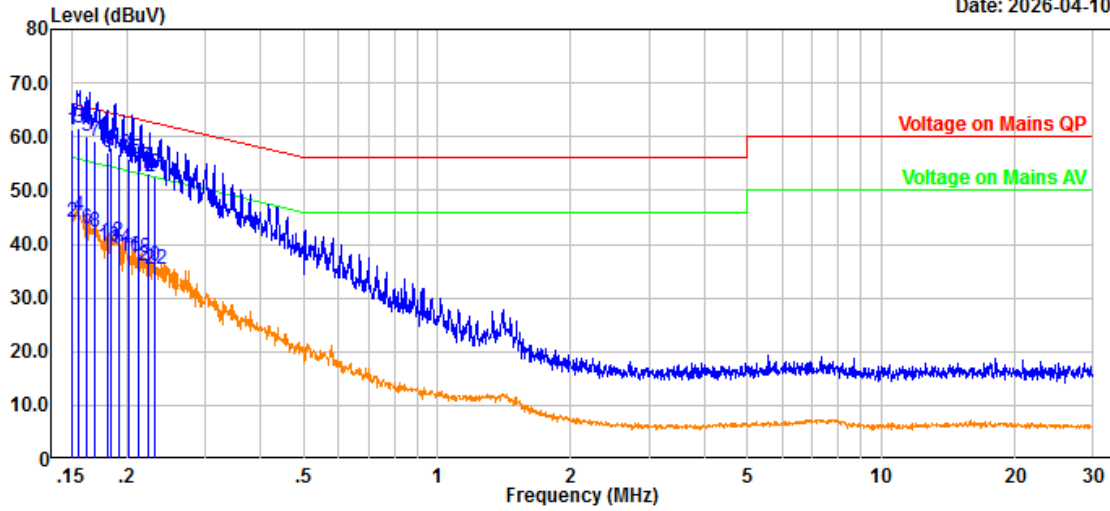
** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test data:

Project No.: 2602S22967E-RF
Port: Line
Test Mode: Transmitting
IF B/W 9kHz PK/AV

Serial No.: 3JE0-1
Tester: Yolo Fan
Note: Part 15.249

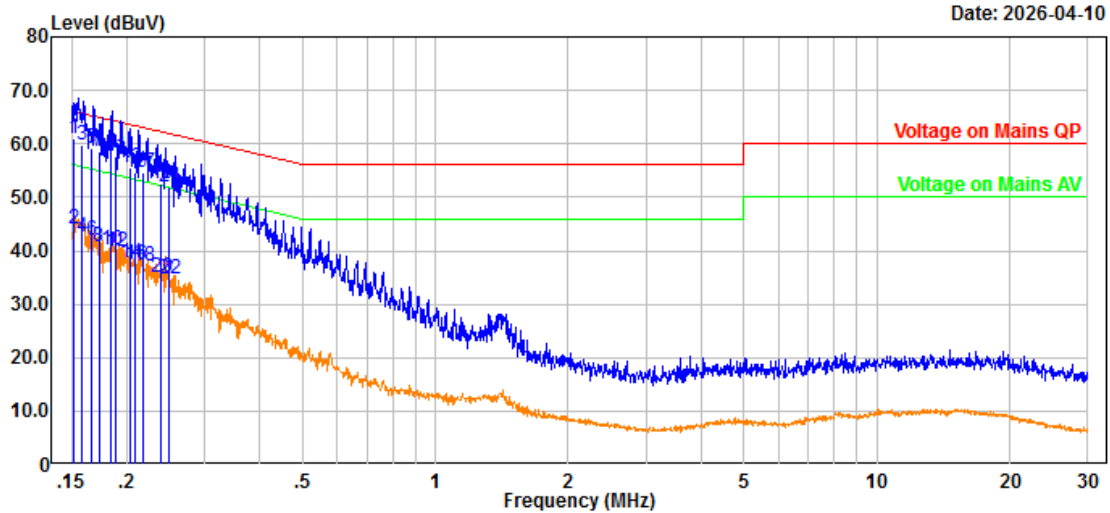
Date: 2026-04-10



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Measurement
1	0.151	50.21	11.19	61.40	65.94	4.54	QP
2	0.151	33.00	11.19	44.19	55.94	11.75	Average
3	0.156	50.57	11.15	61.72	65.68	3.96	QP
4	0.156	34.24	11.15	45.39	55.68	10.29	Average
5	0.163	48.99	11.10	60.09	65.33	5.24	QP
6	0.163	31.66	11.10	42.76	55.33	12.57	Average
7	0.170	48.22	11.04	59.26	64.96	5.70	QP
8	0.170	31.26	11.04	42.30	54.96	12.66	Average
9	0.181	46.13	10.96	57.09	64.46	7.37	QP
10	0.181	28.47	10.96	39.43	54.46	15.03	Average
11	0.184	46.95	10.93	57.88	64.29	6.41	QP
12	0.184	29.39	10.93	40.32	54.29	13.97	Average
13	0.192	45.76	10.87	56.63	63.96	7.33	QP
14	0.192	28.31	10.87	39.18	53.96	14.78	Average
15	0.203	44.90	10.80	55.70	63.50	7.80	QP
16	0.203	26.99	10.80	37.79	53.50	15.71	Average
17	0.212	43.60	10.79	54.39	63.11	8.72	QP
18	0.212	26.72	10.79	37.51	53.11	15.60	Average
19	0.224	42.29	10.78	53.07	62.66	9.59	QP
20	0.224	25.30	10.78	36.08	52.66	16.58	Average
21	0.232	41.70	10.78	52.48	62.39	9.91	QP
22	0.232	24.63	10.78	35.41	52.39	16.98	Average

Project No.: 2602S22967E-RF
 Port: neutral
 Test Mode: Transmitting
 IF B/W 9kHz PK/AV

Serial No.: 3JE0-1
 Tester: Yolo Fan
 Note: Part 15.249

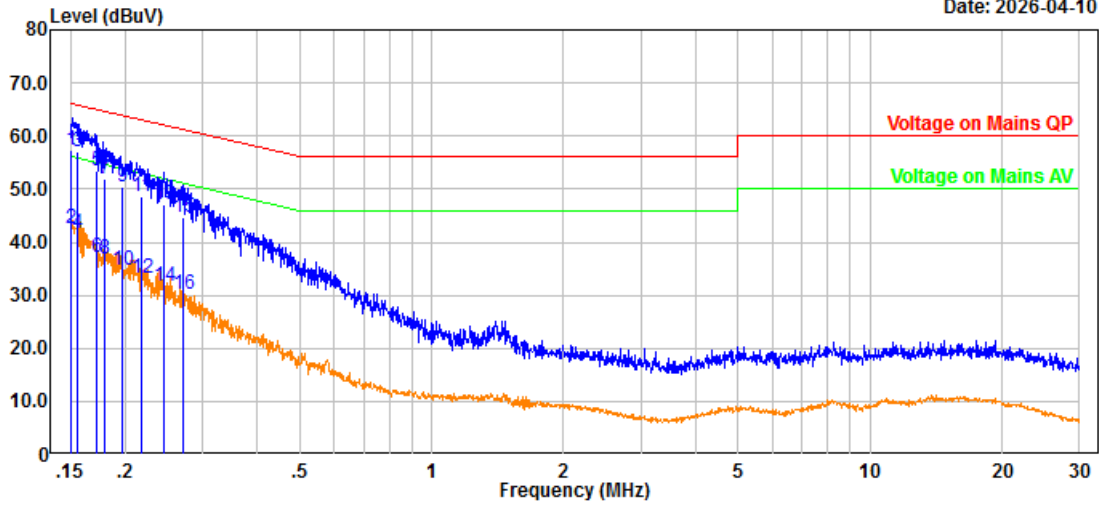


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Measurement
1	0.152	50.25	10.71	60.96	65.87	4.91	QP
2	0.152	33.34	10.71	44.05	55.87	11.82	Average
3	0.159	48.97	10.74	59.71	65.53	5.82	QP
4	0.159	31.95	10.74	42.69	55.53	12.84	Average
5	0.166	48.48	10.76	59.24	65.16	5.92	QP
6	0.166	31.19	10.76	41.95	55.16	13.21	Average
7	0.173	47.75	10.79	58.54	64.82	6.28	QP
8	0.173	30.04	10.79	40.83	54.82	13.99	Average
9	0.184	47.24	10.84	58.08	64.28	6.20	QP
10	0.184	29.17	10.84	40.01	54.28	14.27	Average
11	0.189	46.94	10.86	57.80	64.08	6.28	QP
12	0.189	29.01	10.86	39.87	54.08	14.21	Average
13	0.203	44.70	10.90	55.60	63.48	7.88	QP
14	0.203	26.71	10.90	37.61	53.48	15.87	Average
15	0.209	43.86	10.89	54.75	63.25	8.50	QP
16	0.209	26.42	10.89	37.31	53.25	15.94	Average
17	0.218	43.67	10.88	54.55	62.91	8.36	QP
18	0.218	26.24	10.88	37.12	52.91	15.79	Average
19	0.240	41.77	10.85	52.62	62.10	9.48	QP
20	0.240	24.23	10.85	35.08	52.10	17.02	Average
21	0.250	41.23	10.83	52.06	61.77	9.71	QP
22	0.250	23.84	10.83	34.67	51.77	17.10	Average

Project No.: 2602S22967E-RF
 Port: Line
 Test Mode: Transmitting
 IF B/W 9kHz PK/AV

Serial No.: 3JE1-1
 Tester: Yolo Fan
 Note: Part 15.249

Date: 2026-04-10

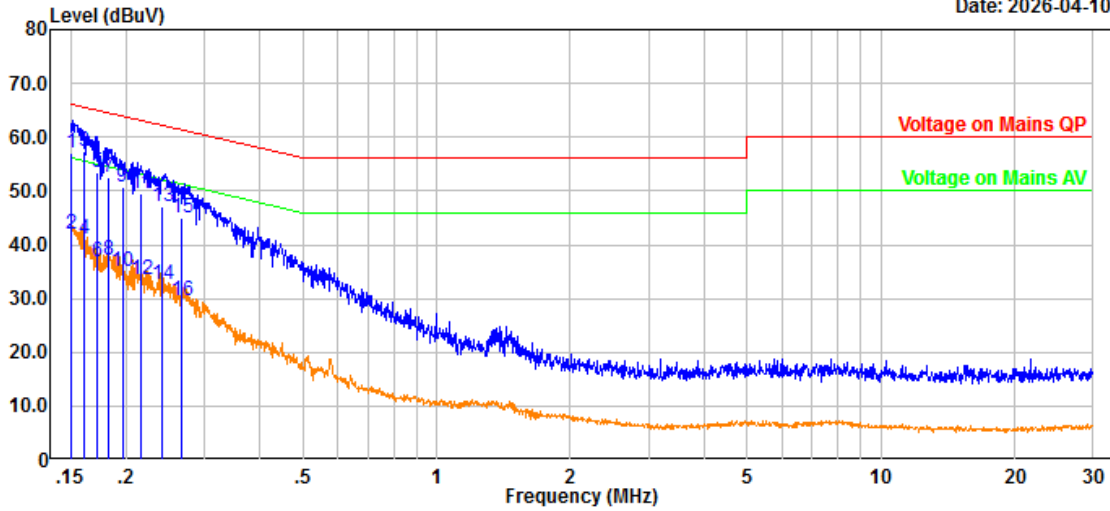


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Measurement
1	0.150	46.24	11.20	57.44	65.99	8.55	QP
2	0.150	31.50	11.20	42.70	55.99	13.29	Average
3	0.156	45.80	11.15	56.95	65.69	8.74	QP
4	0.156	30.51	11.15	41.66	55.69	14.03	Average
5	0.172	42.49	11.02	53.51	64.87	11.36	QP
6	0.172	26.08	11.02	37.10	54.87	17.77	Average
7	0.180	40.95	10.96	51.91	64.48	12.57	QP
8	0.180	25.96	10.96	36.92	54.48	17.56	Average
9	0.196	39.46	10.83	50.29	63.76	13.47	QP
10	0.196	23.88	10.83	34.71	53.76	19.05	Average
11	0.217	37.94	10.79	48.73	62.92	14.19	QP
12	0.217	22.37	10.79	33.16	52.92	19.76	Average
13	0.245	36.27	10.77	47.04	61.92	14.88	QP
14	0.245	20.79	10.77	31.56	51.92	20.36	Average
15	0.272	33.92	10.75	44.67	61.07	16.40	QP
16	0.272	19.41	10.75	30.16	51.07	20.91	Average

Project No.: 2602S22967E-RF
 Port: neutral
 Test Mode: Transmitting
 IF B/W 9kHz PK/AV

Serial No.: 3JE1-1
 Tester: Yolo Fan
 Note: Part 15.249

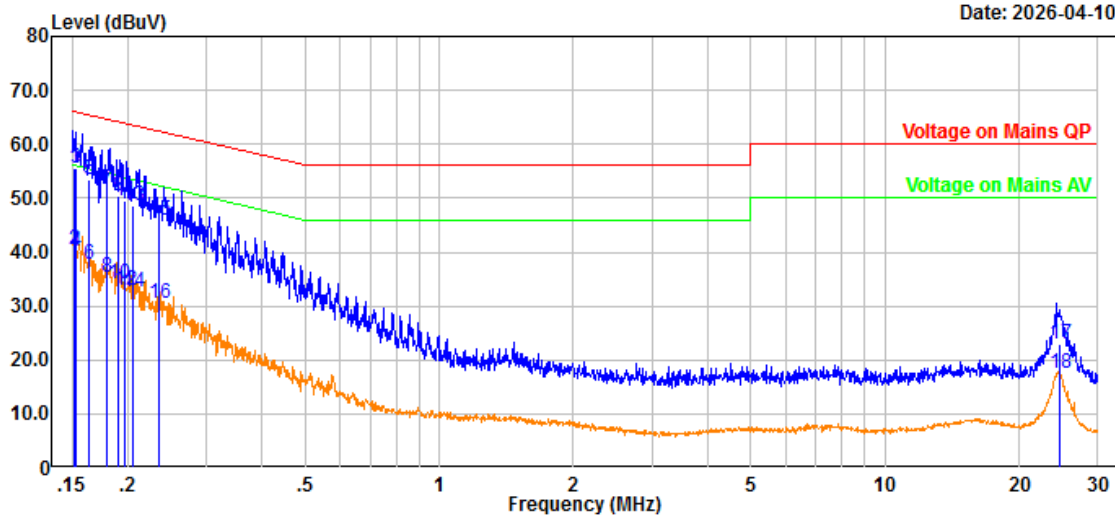
Date: 2026-04-10



No.	Frequency (MHz)	Reading (dBUV)	Factor (dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Measurement
1	0.150	46.38	10.70	57.08	65.99	8.91	QP
2	0.150	31.39	10.70	42.09	55.99	13.90	Average
3	0.162	46.59	10.75	57.34	65.38	8.04	QP
4	0.162	30.35	10.75	41.10	55.38	14.28	Average
5	0.172	42.52	10.79	53.31	64.85	11.54	QP
6	0.172	25.99	10.79	36.78	54.85	18.07	Average
7	0.183	41.60	10.83	52.43	64.36	11.93	QP
8	0.183	26.29	10.83	37.12	54.36	17.24	Average
9	0.196	39.83	10.88	50.71	63.77	13.06	QP
10	0.196	24.06	10.88	34.94	53.77	18.83	Average
11	0.216	38.71	10.88	49.59	62.97	13.38	QP
12	0.216	22.74	10.88	33.62	52.97	19.35	Average
13	0.242	36.31	10.84	47.15	62.04	14.89	QP
14	0.242	21.71	10.84	32.55	52.04	19.49	Average
15	0.266	34.20	10.81	45.01	61.23	16.22	QP
16	0.266	18.67	10.81	29.48	51.23	21.75	Average

Project No.: 2602S22967E-RF
Port: Line
Test Mode: Transmitting
IF B/W 9kHz PK/AV

Serial No.: 3JE2-1
Tester: Yolo Fan
Note: Part 15.249

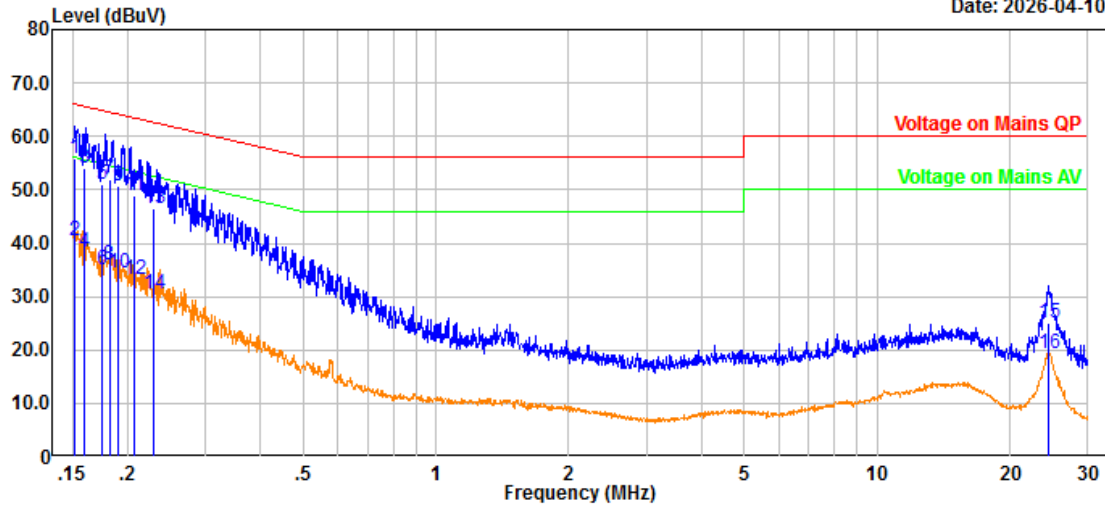


No.	Frequency (MHz)	Reading (dBUV)	Factor (dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Measurement
1	0.152	44.49	11.18	55.67	65.88	10.21	QP
2	0.152	29.18	11.18	40.36	55.88	15.52	Average
3	0.153	44.23	11.17	55.40	65.82	10.42	QP
4	0.153	28.97	11.17	40.14	55.82	15.68	Average
5	0.164	42.31	11.09	53.40	65.27	11.87	QP
6	0.164	26.56	11.09	37.65	55.27	17.62	Average
7	0.179	40.54	10.97	51.51	64.52	13.01	QP
8	0.179	24.47	10.97	35.44	54.52	19.08	Average
9	0.191	39.64	10.87	50.51	64.00	13.49	QP
10	0.191	23.20	10.87	34.07	54.00	19.93	Average
11	0.196	38.65	10.83	49.48	63.76	14.28	QP
12	0.196	22.13	10.83	32.96	53.76	20.80	Average
13	0.206	37.75	10.80	48.55	63.36	14.81	QP
14	0.206	21.78	10.80	32.58	53.36	20.78	Average
15	0.235	35.19	10.78	45.97	62.29	16.32	QP
16	0.235	19.79	10.78	30.57	52.29	21.72	Average
17	24.594	11.93	11.12	23.05	60.00	36.95	QP
18	24.594	6.42	11.12	17.54	50.00	32.46	Average

Project No.: 2602S22967E-RF
Port: neutral
Test Mode: Transmitting
IF B/W 9kHz PK/AV

Serial No.: 3JE2-1
Tester: Yolo Fan
Note: Part 15.249

Date: 2026-04-10



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Measurement
1	0.152	45.14	10.71	55.85	65.87	10.02	QP
2	0.152	29.81	10.71	40.52	55.87	15.35	Average
3	0.159	43.29	10.74	54.03	65.50	11.47	QP
4	0.159	27.54	10.74	38.28	55.50	17.22	Average
5	0.175	40.27	10.80	51.07	64.71	13.64	QP
6	0.175	24.24	10.80	35.04	54.71	19.67	Average
7	0.182	41.14	10.83	51.97	64.40	12.43	QP
8	0.182	25.13	10.83	35.96	54.40	18.44	Average
9	0.191	39.98	10.87	50.85	63.98	13.13	QP
10	0.191	23.58	10.87	34.45	53.98	19.53	Average
11	0.207	38.09	10.89	48.98	63.31	14.33	QP
12	0.207	22.34	10.89	33.23	53.31	20.08	Average
13	0.229	35.78	10.86	46.64	62.50	15.86	QP
14	0.229	19.67	10.86	30.53	52.50	21.97	Average
15	24.459	13.88	11.06	24.94	60.00	35.06	QP
16	24.459	8.25	11.06	19.31	50.00	30.69	Average

4.2 Radiated Emissions

4.2.1 Applicable Standard

As per FCC§15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

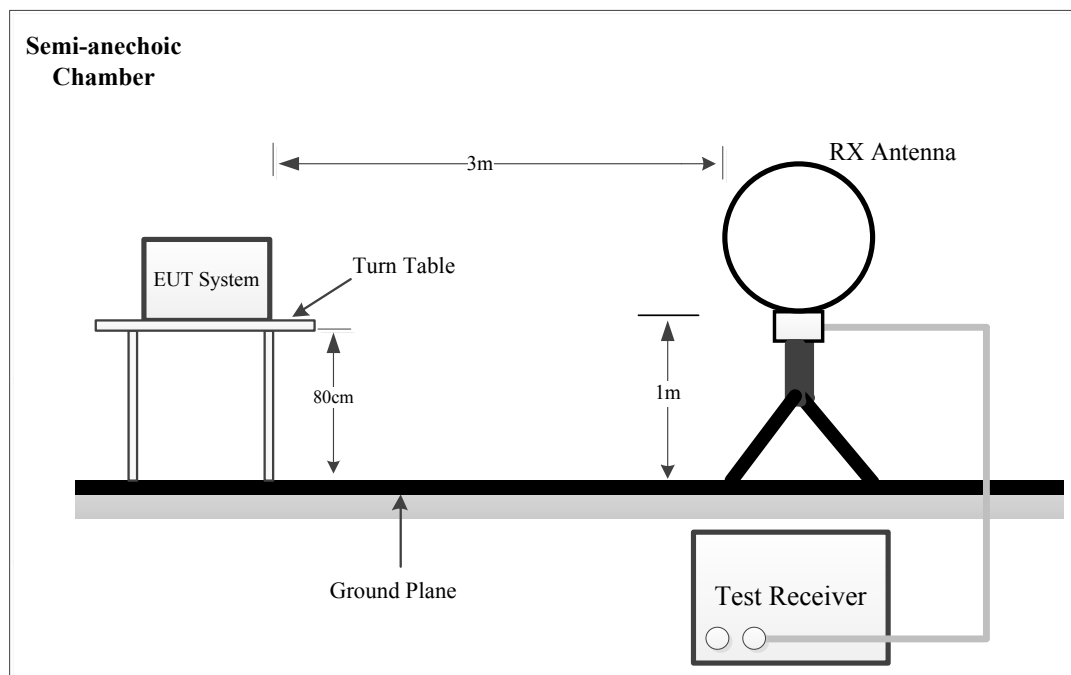
Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

As per FCC§15.249 (c), Field strength limits are specified at a distance of 3 meters.

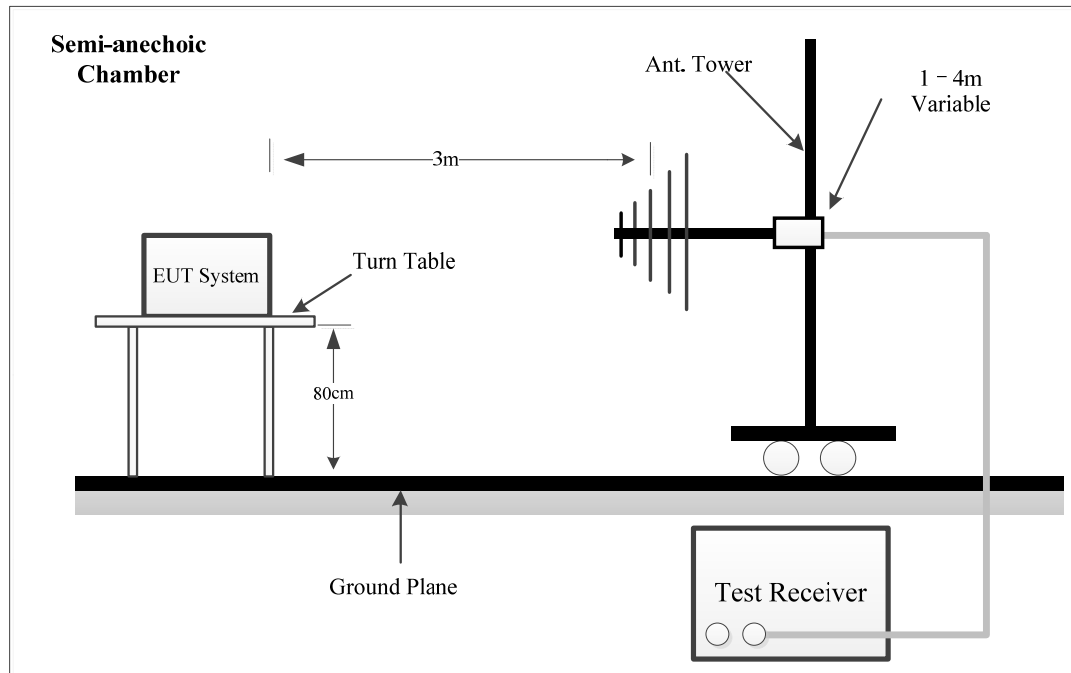
(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

4.2.2 EUT Setup

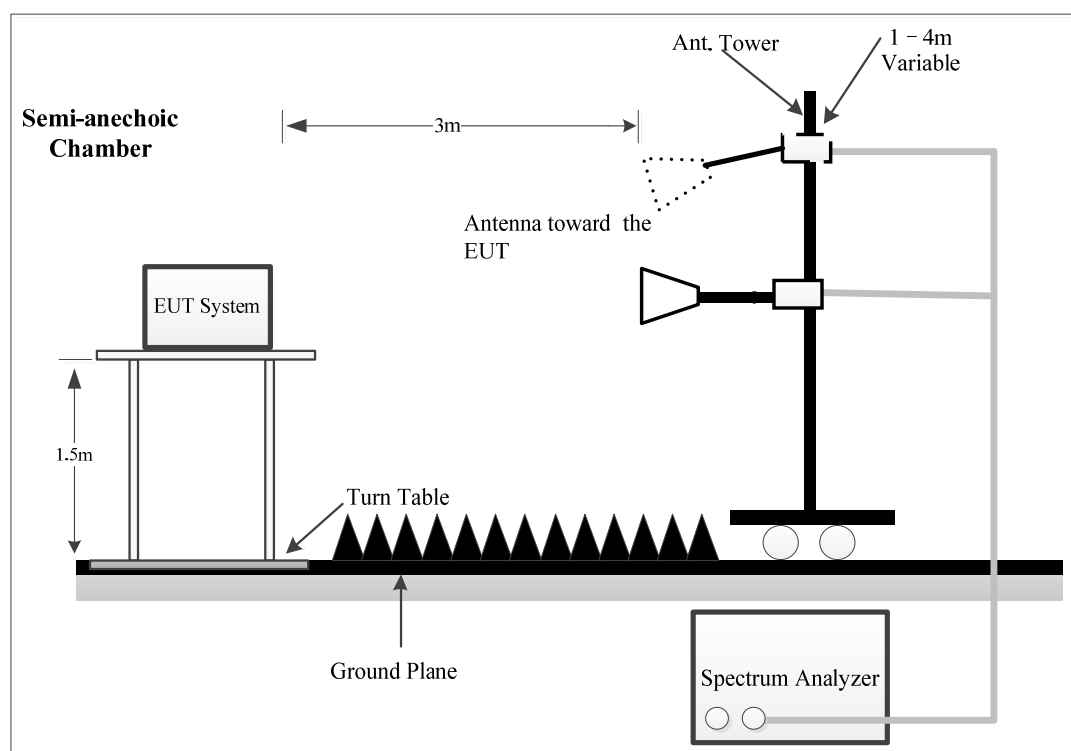
9kHz~30MHz:



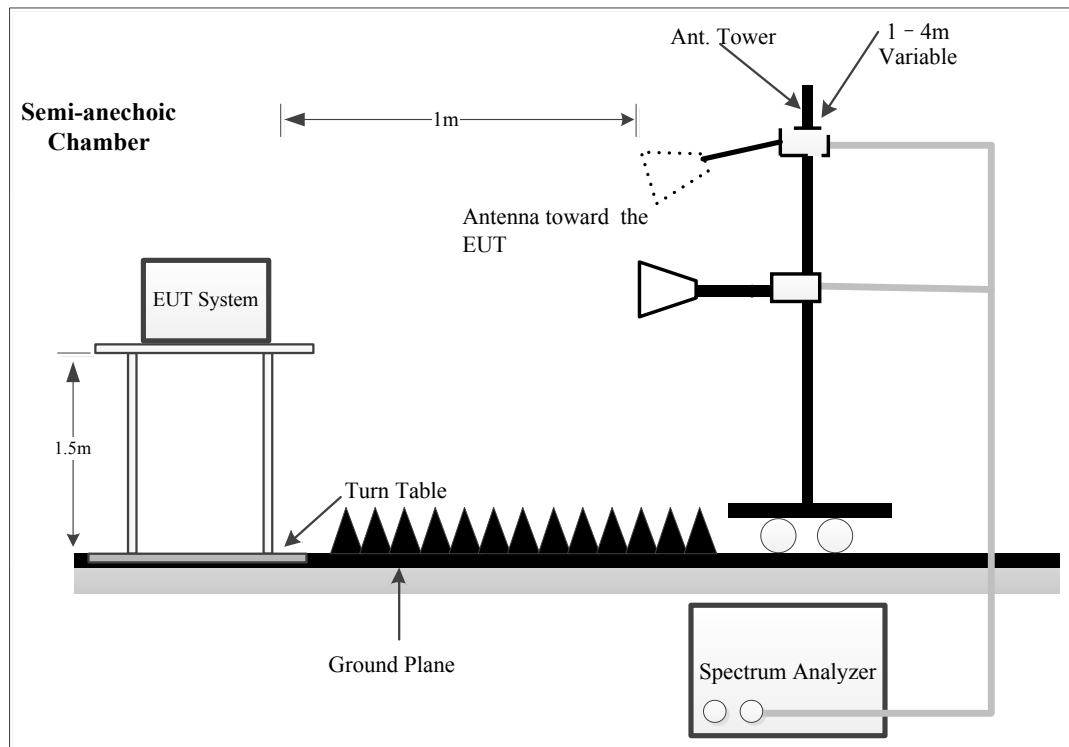
30MHz-1GHz:



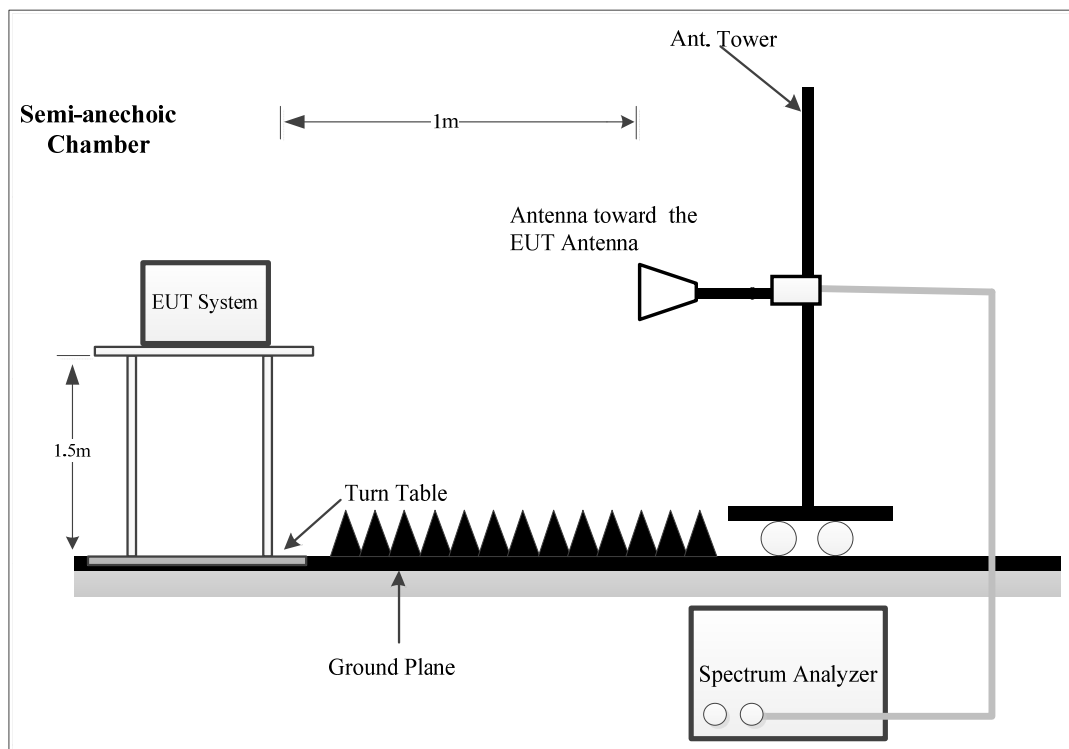
1GHz-26.5 GHz:



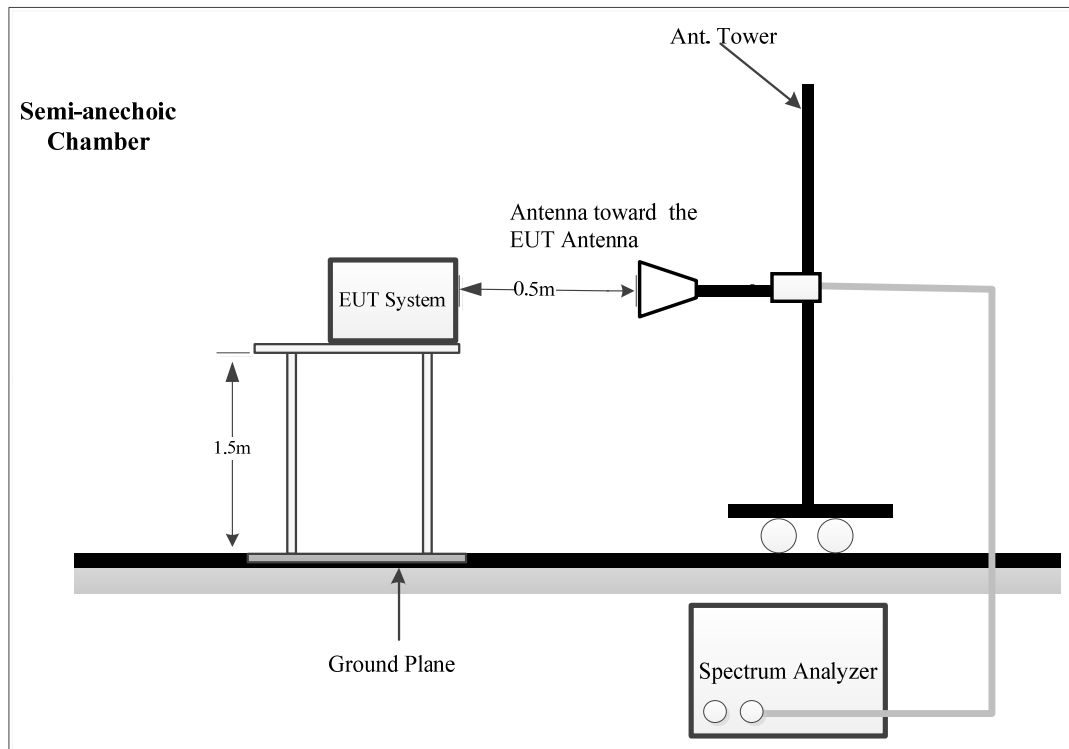
26.5-40GHz:



40~90 GHz:



90~100 GHz:



For 9kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

For above 40GHz: The antenna is scanned around the entire perimeter surface of the EUT, in both horizontal and vertical polarizations, at the distance of 1.0 m from 40 GHz to 90 GHz, and 0.5 m from 90 GHz to 100 GHz.

The radiated emission test was performed in the 3 meters chamber, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209/15.205,FCC 15.249 limits.

4.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 100 GHz.

9kHz-1000MHz:

Frequency Range	Measurement	RBW	Video B/W	IF B/W	Detector
9 kHz-150 kHz	QP/AV	200 Hz	1 kHz	200 Hz	QP/AV
150 kHz-30 MHz	QP/AV	9 kHz	30 kHz	9 kHz	QP/AV
30 MHz-1000 MHz	Peak	120 kHz	500 kHz	/	PK
	QP	/	/	120 kHz	QP

Above 1GHz:

Pre-scan:

Frequency Range	Measurement	RBW	Video B/W	Detector
Above 1 GHz	Peak	1MHz	3 MHz	PK
	AV	1MHz	5kHz	PK

Final measurement for emission identified during the pre-scan:

Frequency Range	Measurement	RBW	Video B/W	Detector
Above 1 GHz	Peak	1MHz	3 MHz	PK
	AV	1MHz	10 Hz	PK

Above 40GHz:

Frequency Range	Measurement	RBW	Video B/W	Detector
Above 40GHz	AV	1MHz	3MHz	AV

4.2.4 Test Procedure

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

Data was required in Quasi-peak measurement for frequency range of 9 kHz-1 GHz except 9-90 kHz, 110-490 kHz, employing an average measurement, peak and Average measurement for frequencies above 1 GHz.

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

For Radiated 26.5-90GHz test:

Which was performed at 1.0 m distance, according to C63.10, the test result shall be extrapolated to the specified distance using an extrapolation Factor of 20dB/decade from 3m to 1m

Distance extrapolation Factor = $20 \log (\text{specific distance [3m]}/\text{test distance [1m]})$ dB=9.54 dB

For 90-100GHz:

Test result shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade from 3m to 0.5m.

Distance extrapolation factor = $20 \log (\text{specific distance [3m]}/\text{test distance [0.5m]})$ dB=15.56 dB.

External harmonic mixers are utilized. The antenna is scanned around the entire perimeter surface of the EUT, in both horizontal and vertical polarizations. The Mixers and it's RF cables is compose a system for calibration, the conversion factor was added into the test Spectrum Analyzer in testing.

The far-field boundary is given in ANSI C63.10-2020:

$$R_m = 2D^2 / \lambda$$

Where:

D is the largest dimension of the antenna aperture in m and

λ is the free-space wavelength in m at the frequency of measurement.

The minimum test distance for the frequency range 40GHz-140GHz determine as below:

Model	Frequency Range (GHz)	Largest Dimension of the Horn Antenna (mm)	Minimum Test Distance R_m (m)
M19RH	40-60	46.3	0.86
M12RH	60-90	30.02	0.55
M08RH	90-140	19.7	0.39

Note: the test distances used were 1.0 m from 40 GHz to 90 GHz, and 0.5 m from 90 GHz to 100GHz, it can be seen that the EUT was always in the Far-field of the Receive Antenna during all Radiated Emissions Tests.

4.2.5 Corrected Amplitude & Margin Calculation

The basic equation except 26.5-100GHz test is as follows:

Factor = Antenna Factor + Cable Loss - Amplifier Gain

For Radiated 26.5-100GHz test:

Factor = Antenna Factor + Cable Loss - Amplifier Gain - Distance extrapolation Factor

Result = Reading + Factor

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

4.2.6 Test Result

Serial Number:	Below 1G: 3JE0-1, 3JE1-1, 3JE2-1 Above 1G: 3JE2-1	Test Date:	2026/4/14~2026/4/22
Test Site:	Chamber 10m, Chamber B	Test Mode:	Transmitting
Tester:	Brian Yang, Alan Xie	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	25~25.9	Relative Humidity: (%)	42~51	ATM Pressure: (kPa)	100.2~101.1

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Spurious Emissions Below 1G					
Sunol Sciences	Hybrid Antenna	JB3	A060611-1	2025/6/23	2028/6/22
Narda	Coaxial Attenuator	779-6dB	04269	2025/6/23	2028/6/22
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	2025/7/1	2026/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-04	2025/7/1	2026/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0530-01	2025/7/1	2026/6/30
Sonoma	Amplifier	310N	185914	2025/8/25	2026/8/24
R&S	EMI Test Receiver	ESR3	102453	2025/6/25	2026/6/24
Audix	Test Software	E3	191218 V9	N/A	N/A
EMCO	Passive Loop Antenna	6512	9706-1206	2023/10/25	2026/10/24
Spurious Emissions Above 1G					
ETS-Lindgren	Horn Antenna	3115	000 527 35	2023/9/7	2026/9/6
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2026/2/21	2029/2/20
Ducommun Technologies	Horn Antenna	ARH-2823-02	1007726-01 1302	2026/2/6	2029/2/5
Xinhang Macrowave	Coaxial Cable	XH750A-N/J-SMA/J-10M	20231117004 #0001	2025/11/14	2026/11/13
Xinhang Macrowave	Coaxial Cable	XH360A-2.92/J-2.92/J-6M-A	20231208001 #0001	2025/11/14	2026/11/13
AH	Preamplifier	PAM-0118P	469	2026/4/10	2027/4/10
AH	Preamplifier	PAM-1840VH	191	2025/7/31	2026/7/30
R&S	Spectrum Analyzer	FSV40	101944	2025/8/8	2026/8/7
Audix	Test Software	E3	191218 V9	N/A	N/A
Decentest	Multiplex Switch Test Control Set & Filter Switch Unit	DT7220SCU & DT7220FSU	DS79902 & DS79905	2025/8/25	2026/8/24
OML	Waveguide Mixer	WR19/M19HWD	U60313-1	2023/9/11	2026/9/10
OML	Horn Antenna	M19RH	11648-01	2026/2/26	2029/2/25
OML	Waveguide Mixer	WR12/M12HWD	E60120-1	2026/2/15	2029/2/14
OML	Horn Antenna	M12RH	E60120-2	2026/2/26	2029/2/25
OML	Waveguide Mixer	WR08/M08HWD	F60313-1	2026/2/15	2029/2/14
OML	Horn Antenna	M08RH	F60313-2	2026/2/26	2029/2/25
Talent Microwave	U-Band Low Noise Amplifier	TMLA-040060-4550-19-N	24060296	2025/9/30	2028/9/29
Talent Microwave	Low Noise Amplifier	TMLA-060090-3840-12	24060299	2025/9/30	2028/9/29
Talent Microwave	Low Noise Amplifier	TMLA-090140-4045-	24060353	2025/9/30	2028/9/29

		08			
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** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

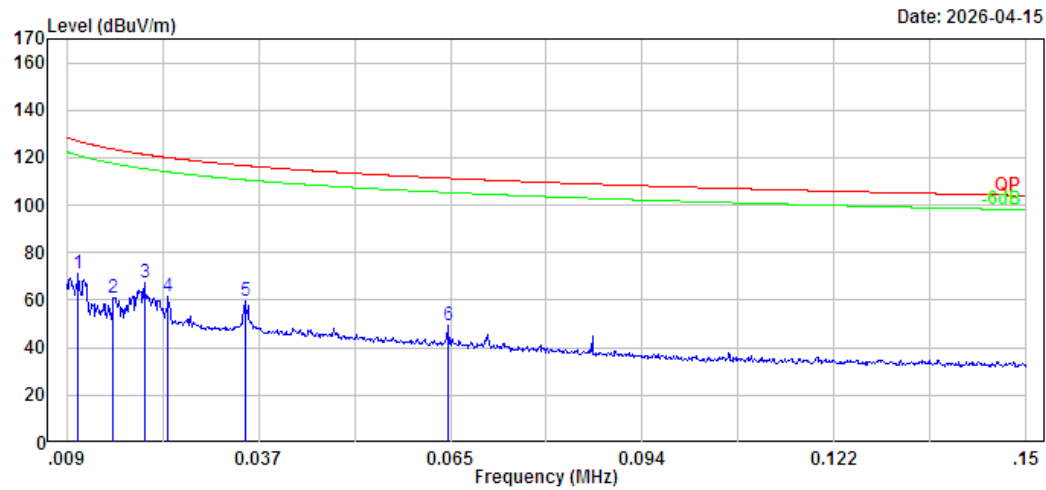
Please refer to the below table and plots.

1) 9kHz~30MHz

Three antenna orientations (parallel, perpendicular, and ground-parallel) was measured, the worst orientations was below:

Project No.: 2602S22967E-RF
Polarization: Parallel
Test Mode: Transmitting
Note: RBW:200Hz,VBW:1kHz
:

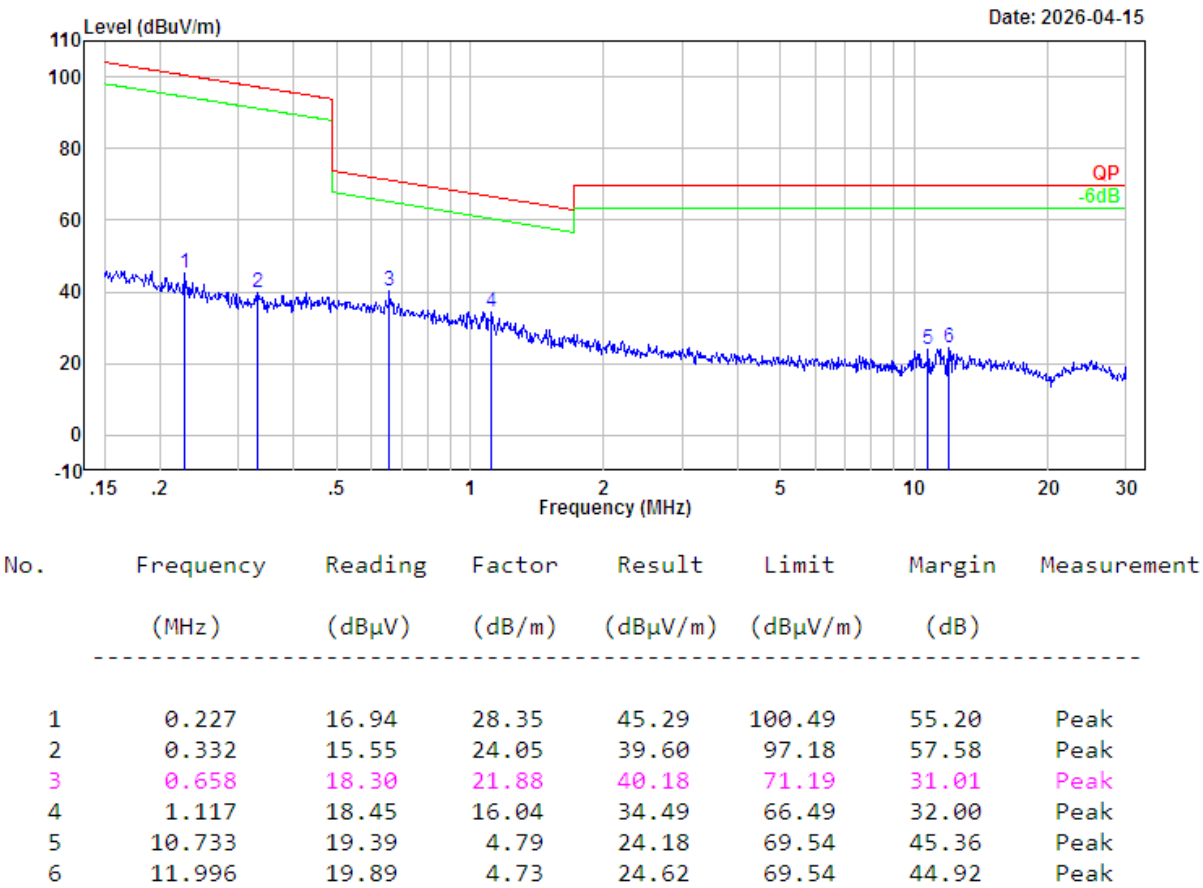
Serial No.: 3JE0-1
Tester: Brian Yang



No.	Frequency	Reading	Factor	Result	Limit	Margin	Measurement
	(MHz)	(dBμV)	(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	
1	0.011	18.27	52.66	70.93	127.03	56.10	Peak
2	0.016	9.91	51.18	61.09	123.57	62.48	Peak
3	0.020	17.66	49.93	67.59	121.40	53.81	Peak
4	0.024	12.35	49.05	61.40	120.02	58.62	Peak
5	0.035	12.94	46.62	59.56	116.67	57.11	Peak
6	0.065	7.63	41.47	49.10	111.35	62.25	Peak

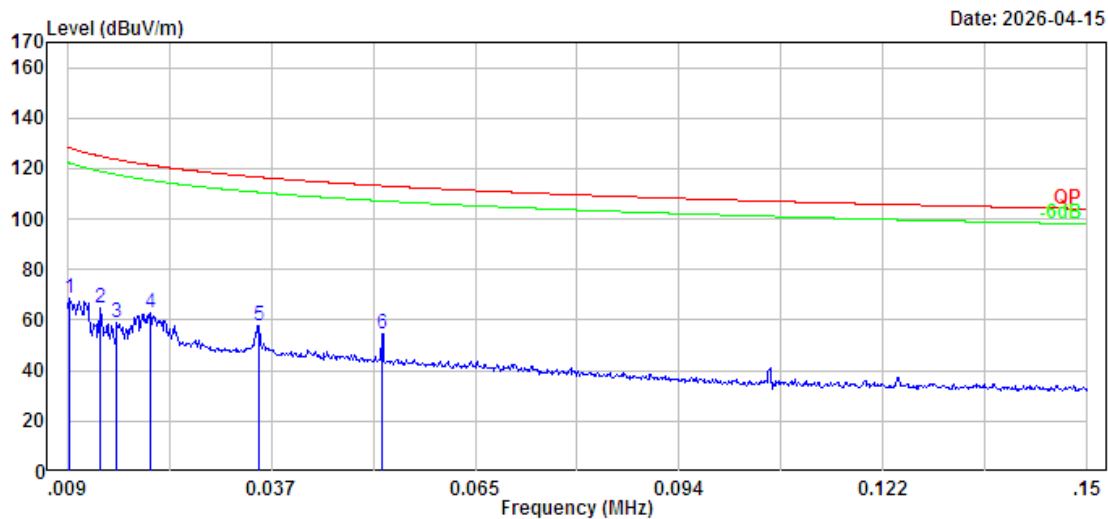
Project No.: 2602S22967E-RF
Polarization: Parallel
Test Mode: Transmitting
Note: RBW:9kHz,VBW:30kHz
:

Serial No.: 3JE0-1
Tester: Brian Yang



Project No.: 2602S22967E-RF
Polarization: Parallel
Test Mode: Transmitting
Note: RBW:200Hz,VBW:1kHz
:

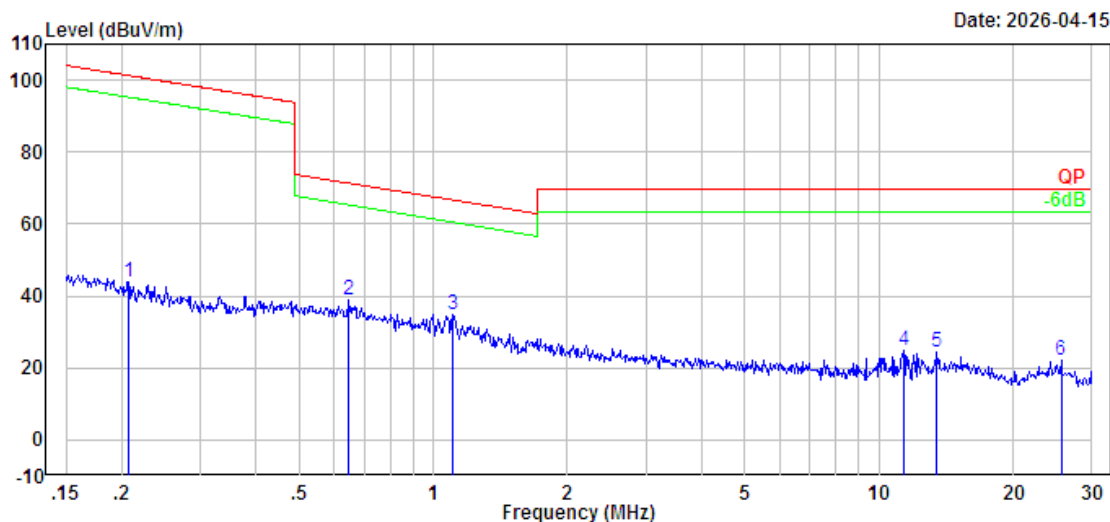
Serial No.: 3JE1-1
Tester: Brian Yang



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	0.009	15.55	53.08	68.63	128.12	59.49	Peak
2	0.014	12.91	51.83	64.74	124.90	60.16	Peak
3	0.016	7.91	51.18	59.09	123.57	64.48	Peak
4	0.020	12.66	49.93	62.59	121.40	58.81	Peak
5	0.036	11.13	46.57	57.70	116.60	58.90	Peak
6	0.053	10.67	43.61	54.28	113.19	58.91	Peak

Project No.: 2602S22967E-RF
Polarization: Parallel
Test Mode: Transmitting
Note: RBW:9kHz,VBW:30kHz
:

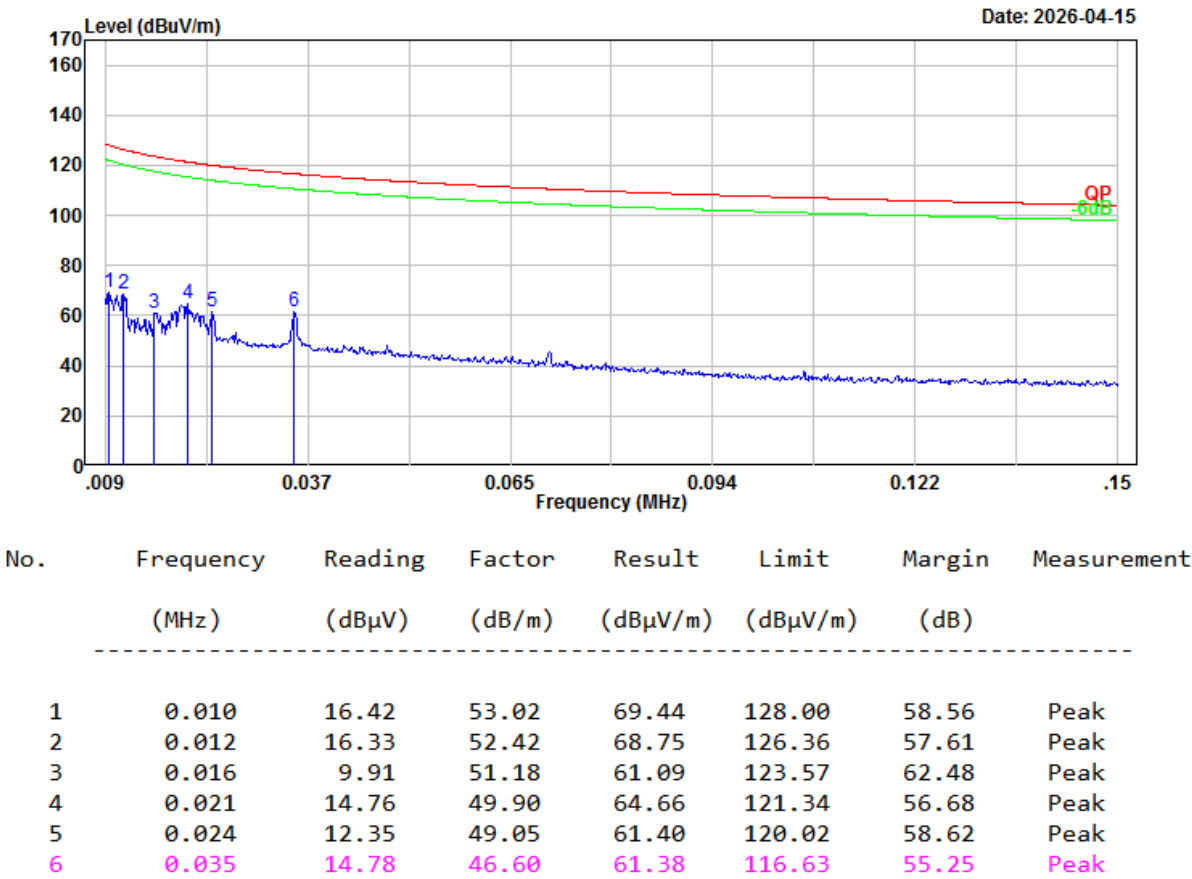
Serial No.: 3JE1-1
Tester: Brian Yang



No.	Frequency	Reading	Factor	Result	Limit	Margin	Measurement
	(MHz)	(dBμV)	(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	
1	0.207	14.34	29.47	43.81	101.28	57.47	Peak
2	0.647	16.74	22.00	38.74	71.33	32.59	Peak
3	1.106	18.90	16.10	35.00	66.58	31.58	Peak
4	11.377	20.21	4.76	24.97	69.54	44.57	Peak
5	13.479	19.70	4.55	24.25	69.54	45.29	Peak
6	25.591	17.93	4.19	22.12	69.54	47.42	Peak

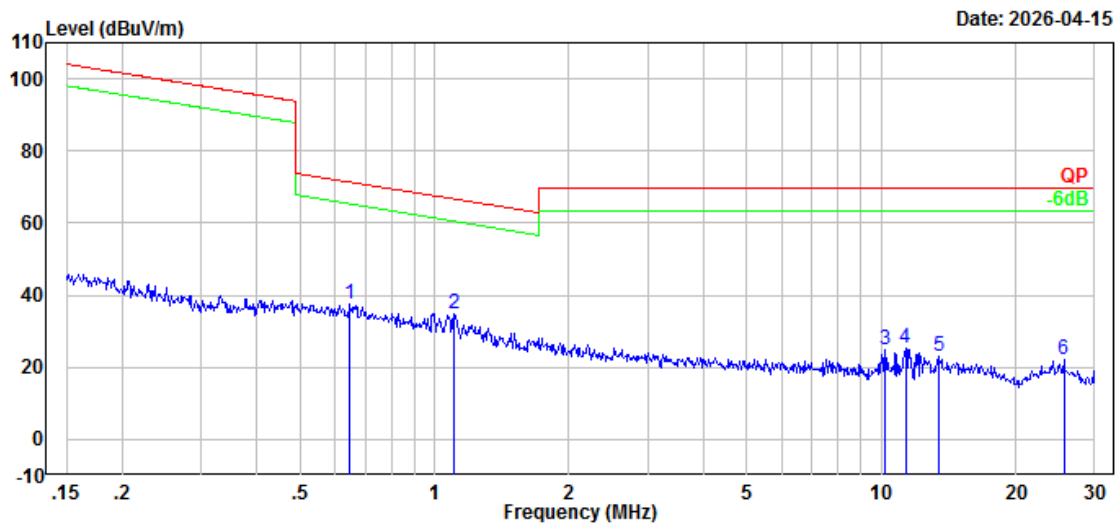
Project No.: 2602S22967E-RF
Polarization: Parallel
Test Mode: Transmitting
Note: RBW:200Hz,VBW:1kHz
:

Serial No.: 3JE2-1
Tester: Brian Yang



Project No.: 2602S22967E-RF
Polarization: Parallel
Test Mode: Transmitting
Note: RBW:9kHz,VBW:30kHz
:

Serial No.: 3JE2-1
Tester: Brian Yang



No.	Frequency	Reading	Factor	Result	Limit	Margin	Measurement
	(MHz)	(dBμV)	(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	
1	0.647	15.74	22.00	37.74	71.33	33.59	Peak
2	1.106	18.91	16.09	35.00	66.58	31.58	Peak
3	10.179	19.85	4.80	24.65	69.54	44.89	Peak
4	11.317	20.73	4.78	25.51	69.54	44.03	Peak
5	13.479	18.70	4.55	23.25	69.54	46.29	Peak
6	25.591	17.93	4.19	22.12	69.54	47.42	Peak

2) 30MHz-1GHz

Project No.: 2602S22967E-RF

Serial No.: 3JE0-1

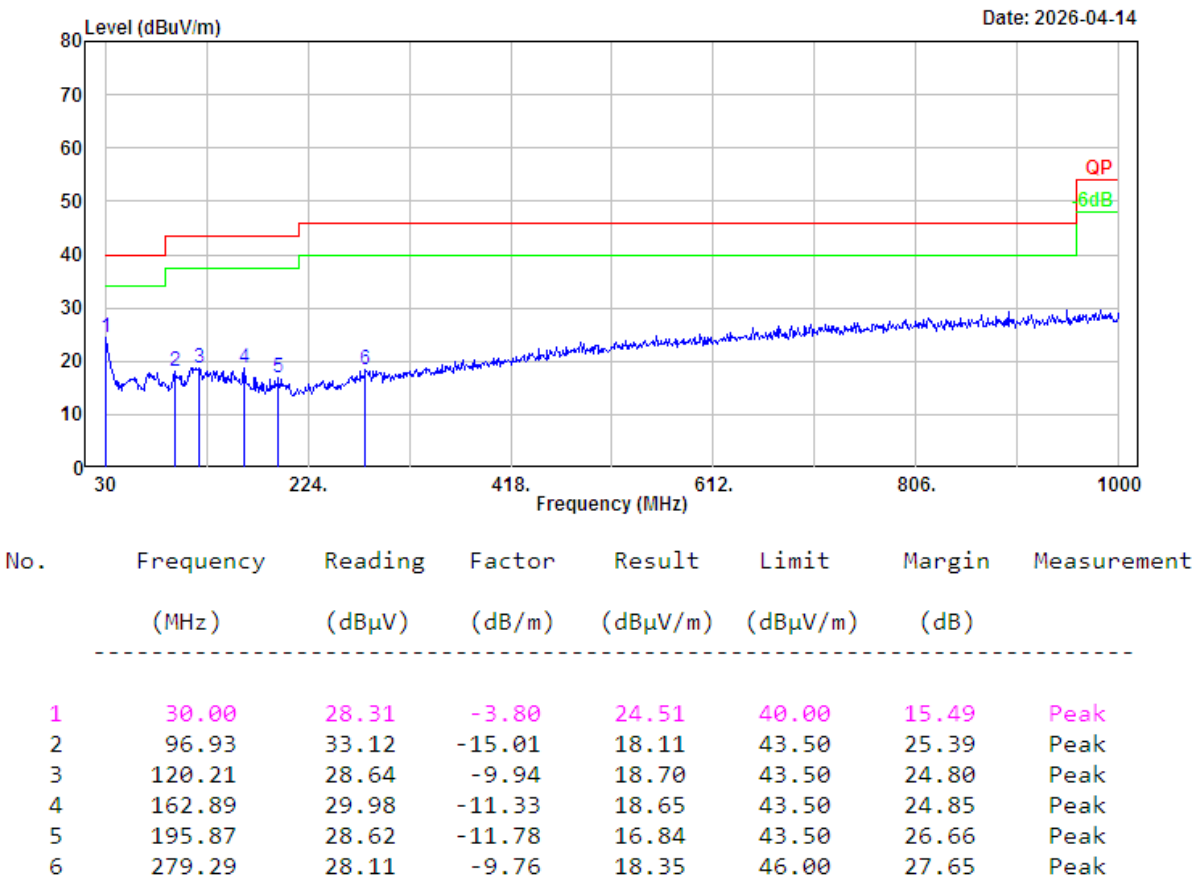
Polarization: Horizontal

Tester: Brian Yang

Test Mode: Transmitting

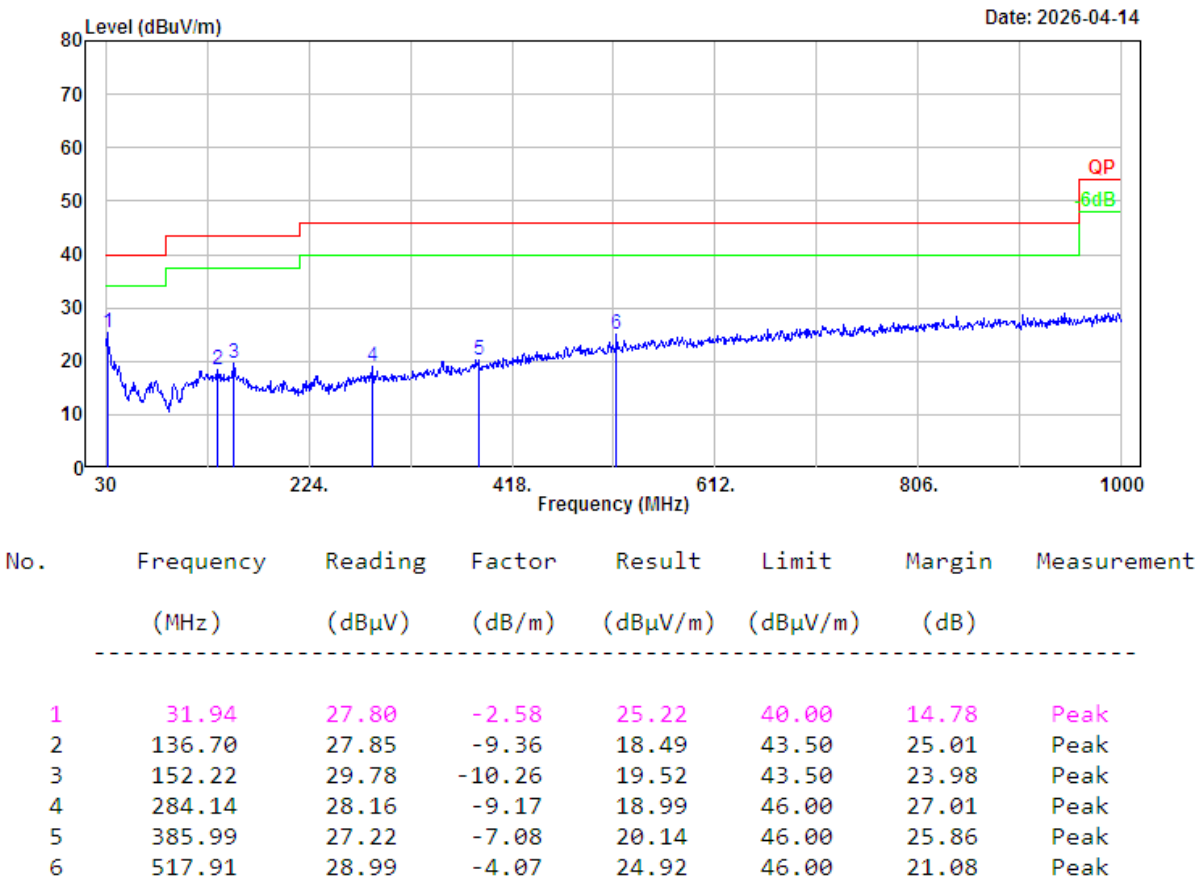
Note: RBW:120kHz,VBW:500kHz

:



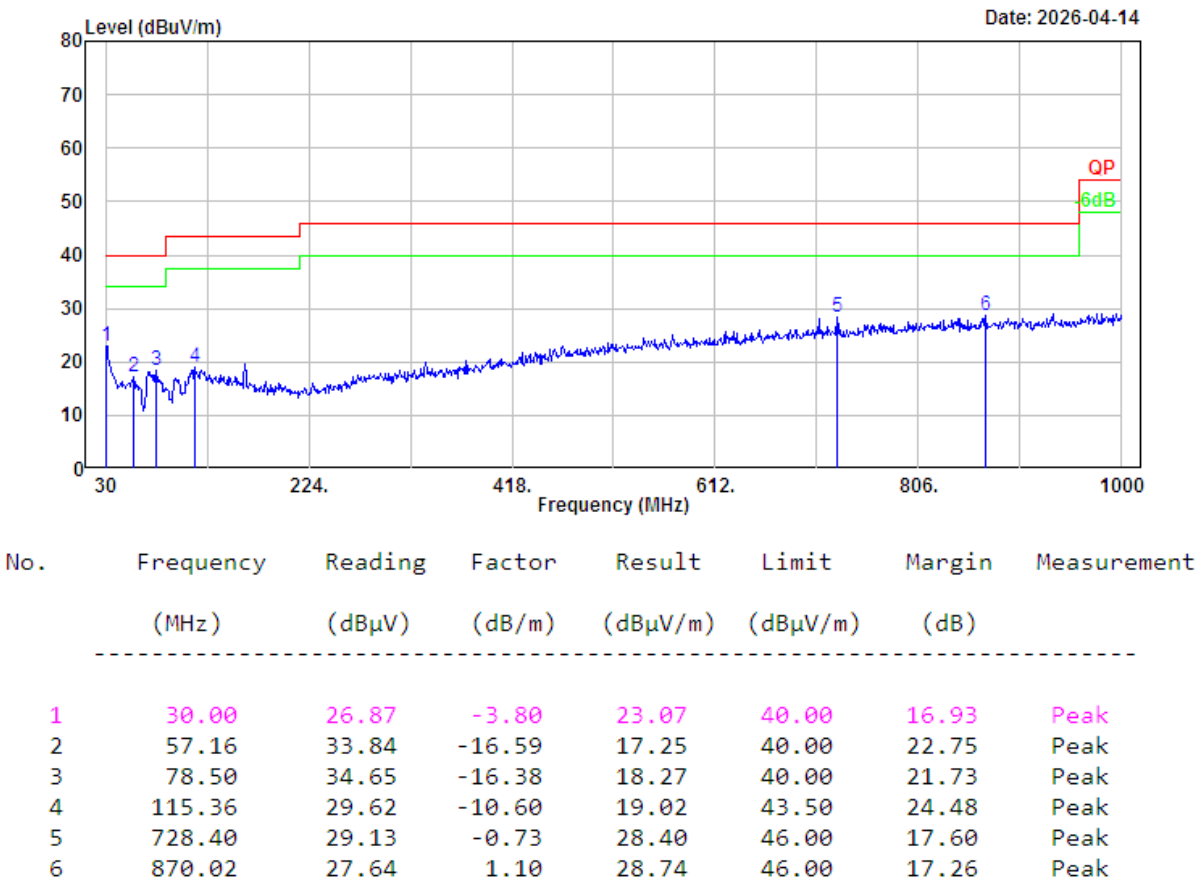
Project No.: 2602S22967E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: RBW:120kHz,VBW:500kHz
:

Serial No.: 3JE0-1
Tester: Brian Yang



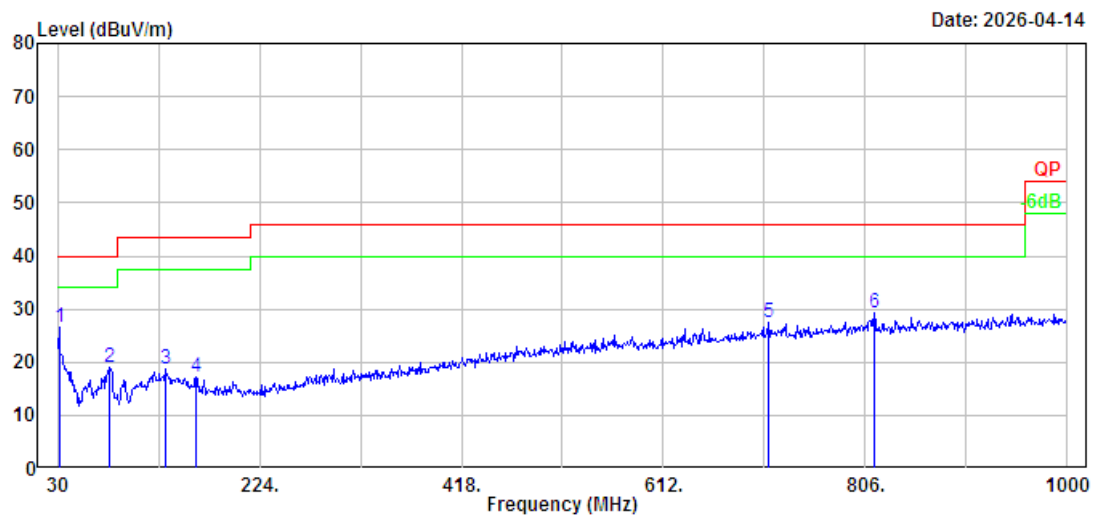
Project No.: 2602S22967E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: RBW:120kHz,VBW:500kHz
:

Serial No.: 3JE1-1
Tester: Brian Yang



Project No.: 2602S22967E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: RBW:120kHz,VBW:500kHz
:

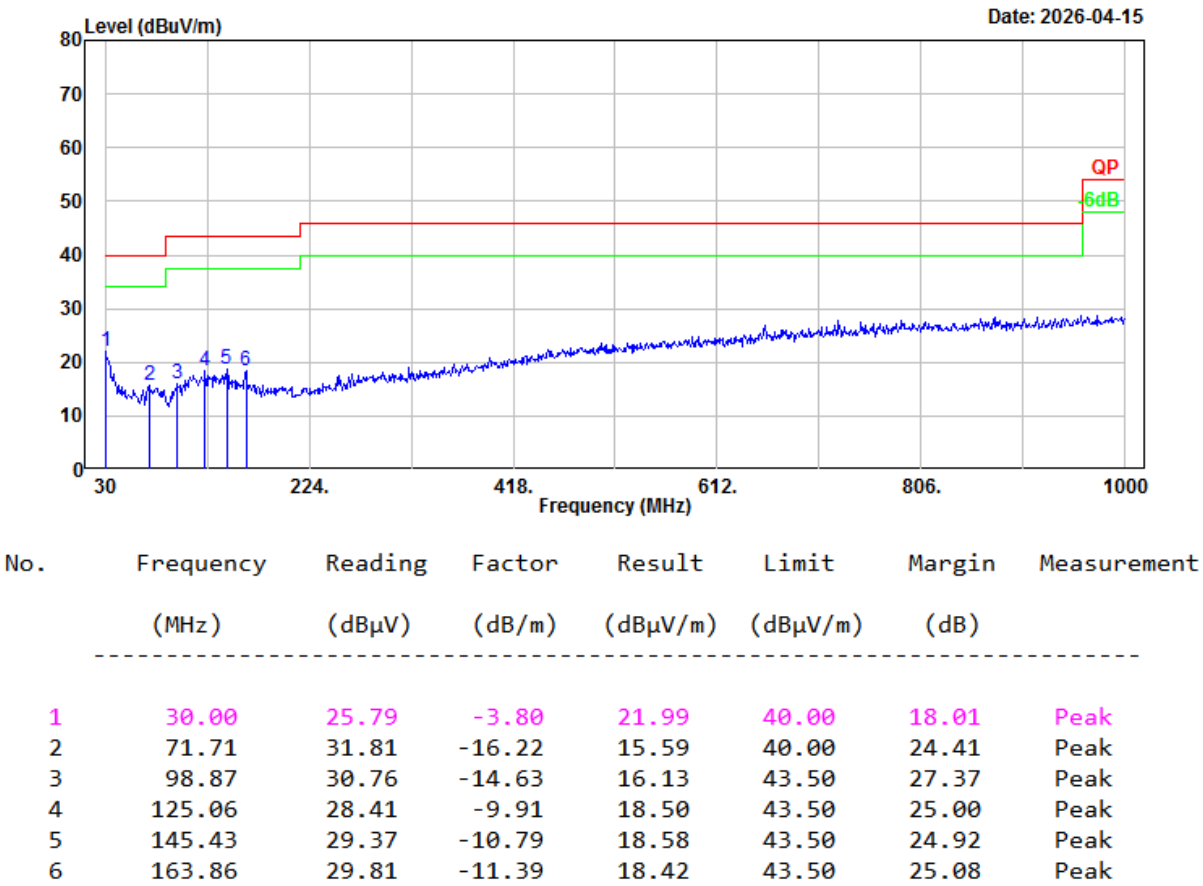
Serial No.: 33E1-1
Tester: Brian Yang



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	31.94	29.01	-2.58	26.43	40.00	13.57	Peak
2	79.47	33.41	-14.51	18.90	40.00	21.10	Peak
3	133.79	27.92	-9.13	18.79	43.50	24.71	Peak
4	162.89	27.83	-10.55	17.28	43.50	26.22	Peak
5	712.88	28.24	-0.77	27.47	46.00	18.53	Peak
6	814.73	28.12	1.12	29.24	46.00	16.76	Peak

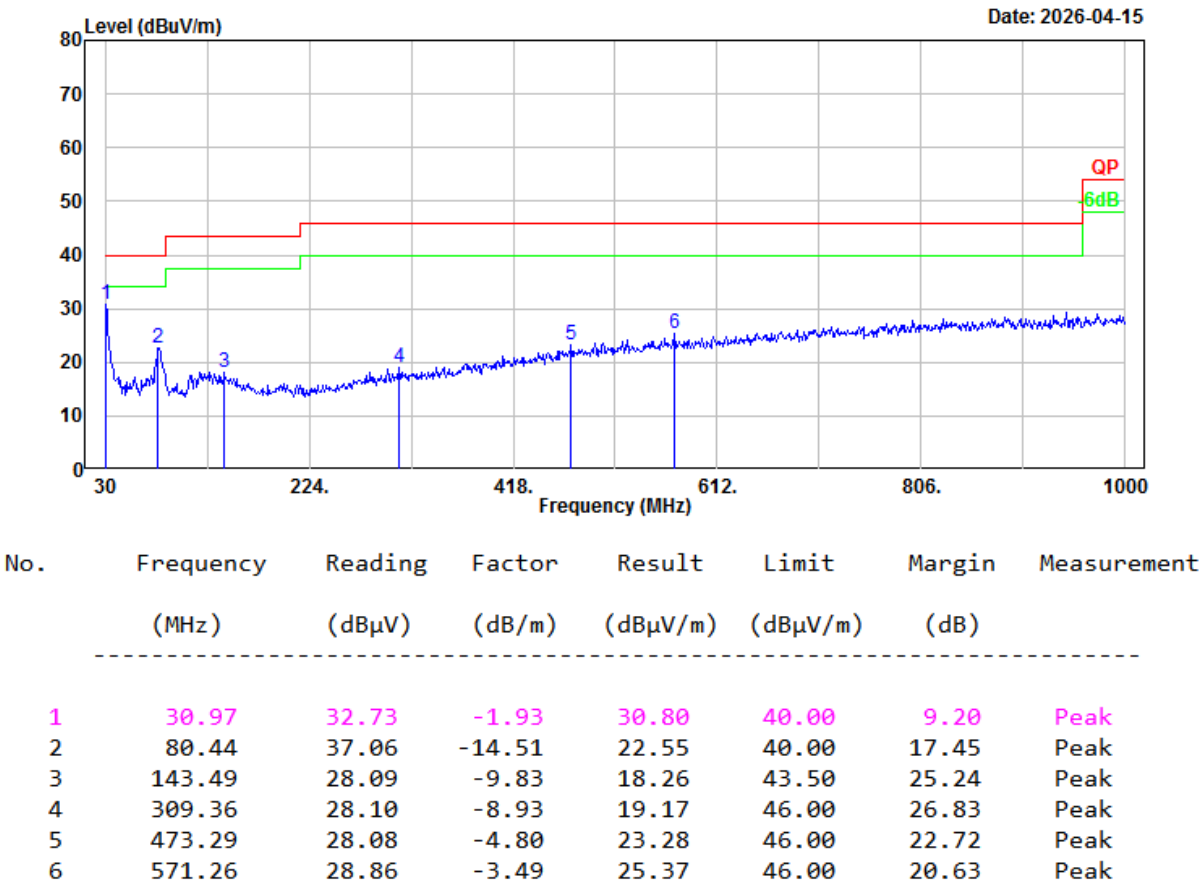
Project No.: 2602S22967E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: RBW:120kHz,VBW:500kHz
:

Serial No.: 3JE2-1
Tester: Brian Yang



Project No.: 2602S22967E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: RBW:120kHz,VBW:500kHz
:

Serial No.: 3JE2-1
Tester: Brian Yang



3) 1-40GHz:

Horizontal

Project No.: 2602522967E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 24G Radar
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 3JE2-1
Tester: Alan Xie

Level (dBuV/m)

90
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10

1000 4400 7800 11200 14600 18000

Frequency (MHz)

Date: 2026-04-22

PK

AV

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	17779.00	50.20	5.44	55.64	74.00	18.36	Peak
2	17779.00	38.25	5.44	43.69	54.00	10.31	Average

Vertical

Project No.: 2602522967E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 24G Radar
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 3JE2-1
Tester: Alan Xie

Level (dBuV/m)

90
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10

1000 4400 7800 11200 14600 18000

Frequency (MHz)

Date: 2026-04-22

PK

AV

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	17830.00	49.89	5.79	55.68	74.00	18.32	Peak
2	17830.00	37.67	5.79	43.46	54.00	10.54	Average

Project No.: 2602522967E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 24G Radar
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 3JE2-1
Tester: Alan Xie

Level (dBuV/m)

100
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20

18000 19700 21400 23100 24800 26500

Frequency (MHz)

Date: 2026-04-22

Fundamental

PK

AV

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	25840.40	46.13	9.66	55.79	74.00	18.21	Peak
2	25840.40	34.52	9.66	44.18	54.00	9.82	Average

Project No.: 2602522967E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 24G Radar
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 3JE2-1
Tester: Alan Xie

Level (dBuV/m)

100
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20

18000 19700 21400 23100 24800 26500

Frequency (MHz)

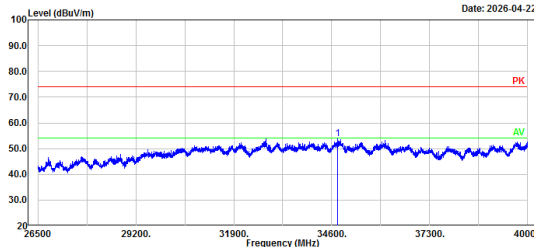
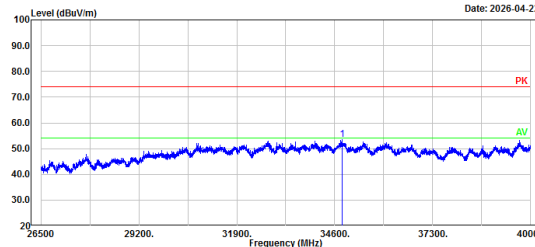
Date: 2026-04-22

Fundamental

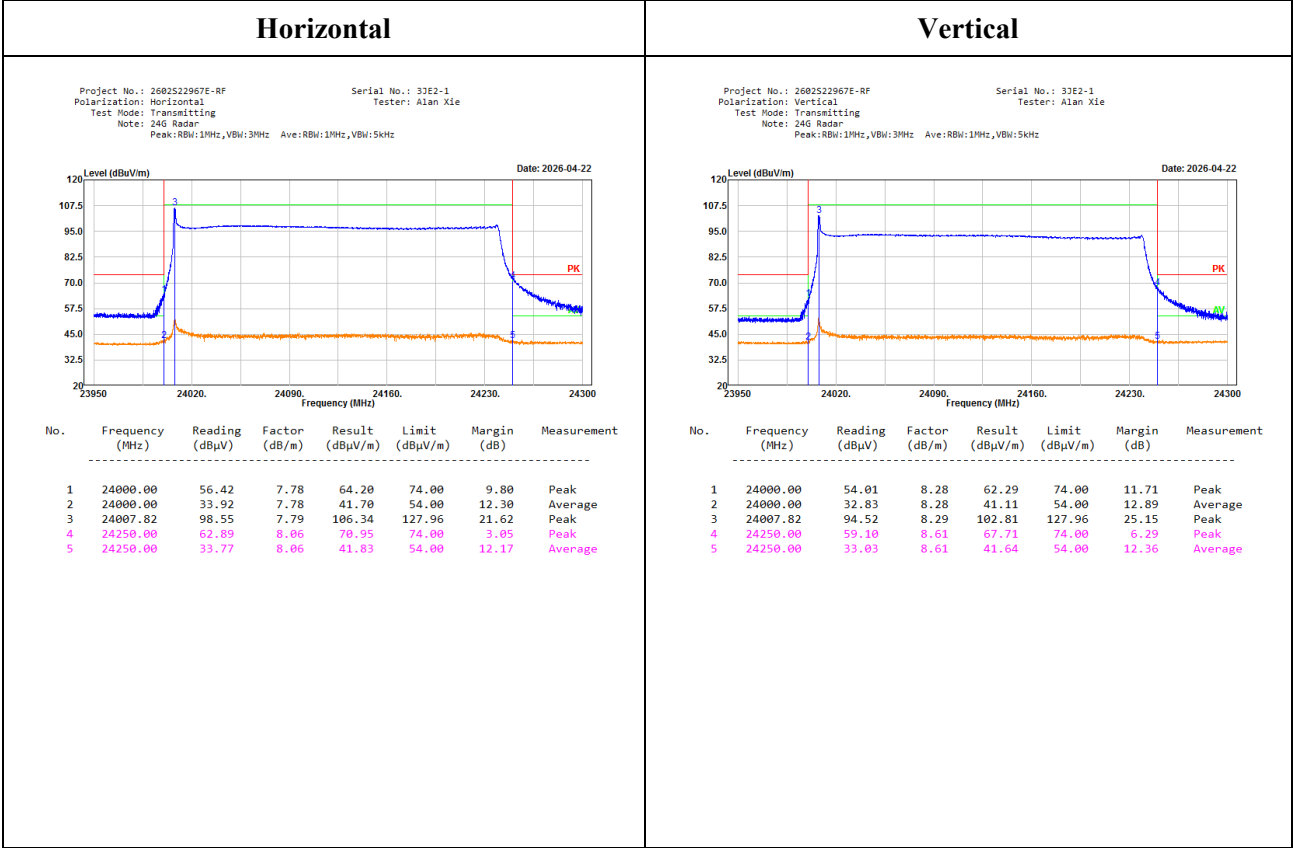
PK

AV

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	25189.30	45.03	9.64	54.67	74.00	19.33	Peak
2	25189.30	33.28	9.64	42.92	54.00	11.08	Average

Horizontal	Vertical																																
Project No.: 2602522967E-RF Serial No.: 33E2-1 Polarization: Horizontal Tester: Alan Xie Test Mode: Transmitting Note: 24G Radar Peak:RBW:1MHz,VBW:3MHz Level (dBuV/m) Date: 2026-04-22  <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>34753.90</td><td>49.86</td><td>3.97</td><td>53.83</td><td>74.00</td><td>20.17</td><td>Peak</td></tr></table>	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement	1	34753.90	49.86	3.97	53.83	74.00	20.17	Peak	Project No.: 2602522967E-RF Serial No.: 33E2-1 Polarization: Vertical Tester: Alan Xie Test Mode: Transmitting Note: 24G Radar Peak:RBW:1MHz,VBW:3MHz Level (dBuV/m) Date: 2026-04-22  <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>34802.50</td><td>49.54</td><td>3.96</td><td>53.50</td><td>74.00</td><td>20.50</td><td>Peak</td></tr></table>	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement	1	34802.50	49.54	3.96	53.50	74.00	20.50	Peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement																										
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1	34802.50	49.54	3.96	53.50	74.00	20.50	Peak																										

Fundamental strength and Bandedge:



For Radiated 24 -24.25GHz:
Chirps Correction Factor

Chirps Time (μs)	BW _{chirp} (MHz)	RBW (MHz)	Chirps Correction Factor (dB)
38	245.300	1	4.8

Refer to ANSI C63.10-2020/cor 1-2023 Annex L.1. The chirps correction factor was calculated using the formula:

$$\alpha = \frac{1}{\left(1 + \left[\left(\frac{2 \times \ln(2)}{\pi}\right)^2 \times \left(\frac{BW_{\text{Chirp}}}{T_{\text{Chirp}} \times RBW^2}\right)^2\right]\right)^{0.25}}$$

where

α is the reduction in amplitude
BW_{Chirp} is the FMCW Chirp Bandwidth
T_{Chirp} is the FMCW Chirp Time

Maximum Fundamental strength (dBμV/m)	Chirps Correction Factor (dB)	Final Fundamental strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
106.34	4.8	111.14	127.96	16.82

4)40-140GHz:

Frequency (GHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
48.250	45.74	PK	H	40.08	76.28	87.96	11.68
48.250	33.25	AV	H	40.08	63.79	67.96	4.17
48.250	45.68	PK	V	40.08	76.22	87.96	11.74
48.250	33.19	AV	V	40.08	63.73	67.96	4.23
72.375	42.52	PK	H	43.84	76.82	87.96	11.14
72.375	30.21	AV	H	43.84	64.51	67.96	3.45
72.375	42.70	PK	V	43.84	77.00	87.96	10.96
72.375	30.26	AV	V	43.84	64.56	67.96	3.40

Result = Reading + Factor- Distance extrapolation Factor

For 40-90GHz:

Distance extrapolation Factor =20 log (specific distance [3m]/test distance [1m]) dB= 9.54 dB

For 90-140GHz:

Distance extrapolation Factor =20 log (specific distance [3m]/test distance [0.5m]) dB= 15.56 dB

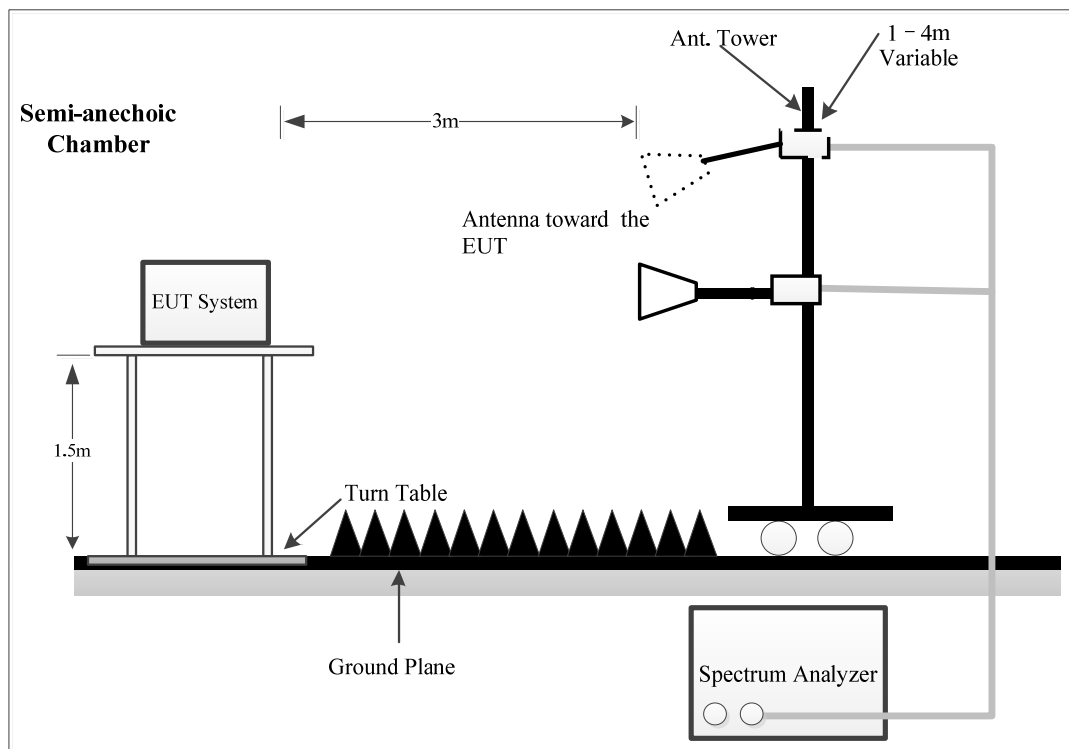
4.3 20 dB Emission Bandwidth

4.3.1 Applicable Standard

FCC §15.215

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

4.3.2 EUT Setup



4.3.3 Test Procedure

According to ANSI C63.10-2020 Section 6.9.2

- The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, unless otherwise specified by the applicable requirement.
- Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

4.3.4 Test Result

Serial No.:	3JE2-1	Test Date:	2026/4/22
Test Site:	Chamber B	Test Mode:	Transmitting
Tester:	Alan Xie	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.9	Relative Humidity: (%)	51	ATM Pressure: (kPa)	100.2
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2026/2/21	2029/2/20
AH	Preamplifier	PAM-1840VH	191	2025/7/31	2026/7/30
Xinhang Macrowave	Coaxial Cable	XH360A-2.92/J-2.92/J-6M-A	20231208001 #0001	2025/11/14	2026/11/13
R&S	Spectrum Analyzer	FSV40	101944	2025/8/8	2026/8/7

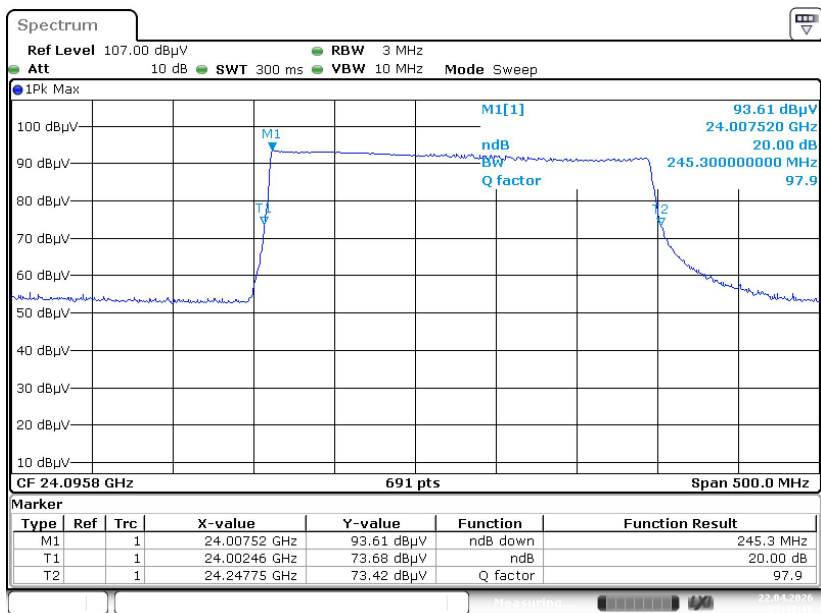
* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Test Mode	20 dB Bandwidth (MHz)	Result
Sweep Mode	245.300	Pass

Note: the 20 dB bandwidth of the emission is contained within the operation frequency band. Please refer to the below plots.

20 dB Bandwidth



Project No.: 2602S22967E-RF Tester: Alan Xie
Date: 22 APR 2026 23:40:16

4.4 Antenna Requirement

4.4.1 Applicable Standard

FCC §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 use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

4.4.2 Judgment

Compliant. Please refer to the Antenna Information detail in Section 1.3.

EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2602S22967E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and
2602S22967E-RF-INP EUT INTERNAL PHOTOGRAPHS

EXHIBIT B - TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2602S22967E-RF-00A-TSP TEST SETUP PHOTOGRAPHS.

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