TEST REPORT

Applicant Name:	Shenzhen Creality 3D Technology Co., Ltd.
Address:	18F, JinXiuHongDu Building, Meilong Blvd., Longhua Dist., Shenzhen, China 518131
Report Number:	2601U16169E-RFB
FCC ID:	2AXH6K3
IC:	27656-K3

Test Standard (s)

FCC PART 15.225

RSS-GEN ISSUE 5, FEBRUARY 2021 AMENDMENT 2; RSS-210, ISSUE 11, JUNE 25, 2024

Sample Description

Product Type:	3D Printer
Model No.:	K3
Multiple Model(s) No.:	FCC: K3(A)
Trade Mark:	SPARKX Powered by Creality, CREALITY, CREALITY, CREALITY 创想三维
Date Received:	2026-07-28
Issue Date:	2026-10-13

Test Result:	Pass▲

▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Wills Yu
RF Engineer

Approved By:

Nancy Wang
RF 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	2601U16169E-RFB	Original Report	2026-10-13

GENERALINFORMATION

Product Description for Equipment under Test (EUT)

HVIN	CFS FLX, CFS nano unit
FVIN	4.0.2.76.1
Product	3D Printer
Tested Model	K3
Multiple Model(s) (for FCC only)	K3(A)
Frequency Range	13.56 MHz
E-field Strength	70.05dBuV/m@3m
Modulation Technique	ASK
Voltage Range	AC 100~127V, 200~240V, 50/60Hz
Sample serial number	3QRR-1 (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	N/A
Note: 1. The Multiple models are electrically identical with the test model except for model name and sales channels. Please refer to the declaration letter# for more detail, which was provided by manufacturer. 2. The device has two Auto Filament Loader/Unloader: CFS nano unit and CFS FLX, please refer to EUT Photo for details.	

Objective

This Type approval report is in accordance with Part 2- Subpart J, and Part 15-Subparts A and C of the Federal Communication Commissions rules, RSS-GEN Issue 5, February 2021 Amendment 2 and RSS-210, Issue 11, June 25, 2024 of the Innovation, Science and Economic Development Canada.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020+Cor.1-2023+C63.10a-2024 + Errata to C63.10a-2024▼, RSS-Gen and RSS-210.

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

Parameter		Uncertainty
Occupied Channel Bandwidth		52.29kHz(k=1.96, 95% level of confidence)
RF Frequency		81.235Hz(k=1.96, 95% level of confidence)
AC Power Lines Conducted Emissions	9kHz~150 kHz	3.46dB(k=2, 95% level of confidence)
	150 kHz ~30MHz	3.72dB(k=2, 95% level of confidence)
Radiated Emissions	0.009MHz~30MHz	3.66dB(k=2, 95% level of confidence)
	30MHz~1000MHz (Horizontal)	5.10dB(k=2, 95% level of confidence)
	30MHz~1000MHz (Vertical)	6.28dB(k=2, 95% level of confidence)
Temperature		±0.4℃
Humidity		±2%
Supply voltages		DC±0.4%;AC±1%

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, test firm registration No.: 715558, the FCC Designation No. : CN5045.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

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

Note:
1. The device has four antennas, which transmit alternately in sequence and shall not transmit simultaneously.
2. Per the Wi-Fi report test result, the worst case is “CFS FLX” for AC line conducted emissions test and “CFS nano unit” for radiated emissions test. Only the worst case was recorded in this report.

EUT Exercise Software

No Exercise Software was used.

Equipment Modifications

No modification on the EUT.

Support Equipment List and Details

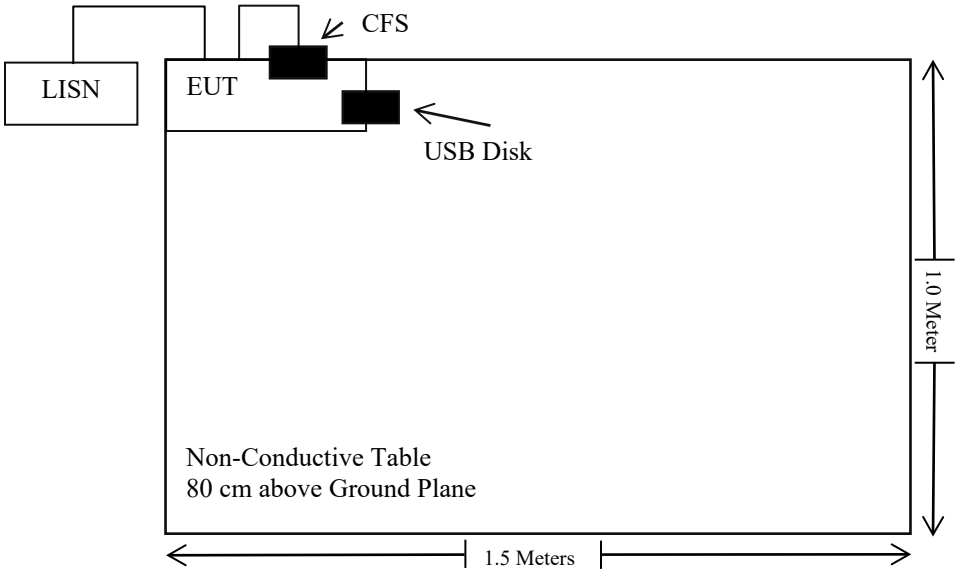
Manufacturer	Description	Model	Serial Number
Creality 3D	CFS	Unknown	Unknown
Kingston	USB Disk	Unknown	Unknown

External I/O Cable

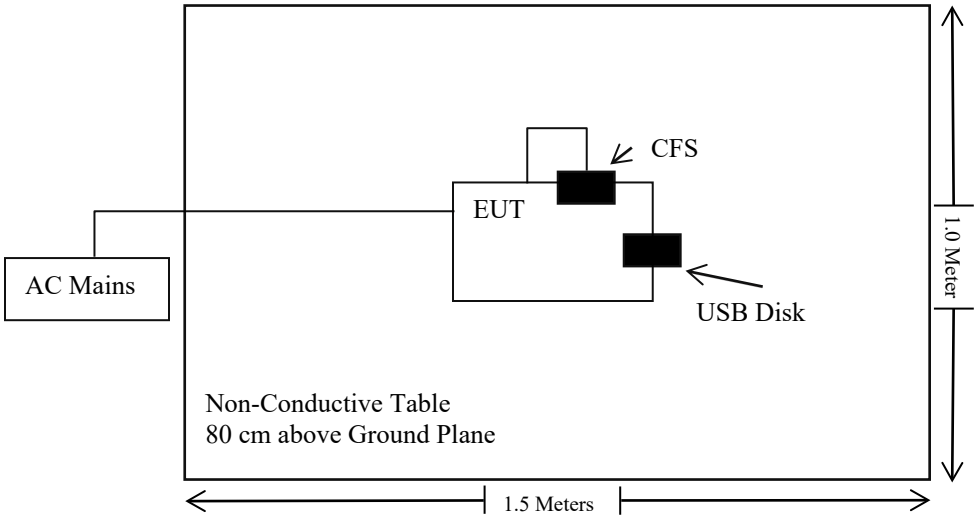
Cable Description	Length (m)	From Port	To
Unshielded detachable AC Cable	1.2	EUT	LISN/AC Mains/Socket
Unshielded detachable 485 Cable	0.5	EUT	CFS
Unshielded un-detachable AC Cable	1.2	Socket	AC Mains

Block Diagram of Test Setup

For AC Line Conducted Emissions:



For Radiated Emissions:



SUMMARY OF TEST RESULTS

FCC Rules	RSS Rules	Description of Test	Result
§15.203	RSS-Gen §6.8	Antenna Requirement	Compliant
§1.1310 & §2.1091	/	Maximum Permissible Exposure (MPE)	Compliant
/	RSS-102 § 6.6	Field reference level exposure exemption limits	Compliant
§15.207	RSS-Gen §8.8	AC Line Conducted Emission	Compliant
§15.225 §15.209§15.205	RSS-Gen §8.9& RSS-210 §B.6(a)	Radiated Emission Test	Compliant
§15.225(e)	RSS-210 §B.6(b)	Frequency Stability	Compliant
§15.215(c)	/	20dB Emission Bandwidth	Compliant
/	RSS-Gen §6.7	99% Occupied Bandwidth	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
AC Line Conducted Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2026/08/04	2027/08/03
Rohde & Schwarz	LISN	ENV216	101613	2025/09/18	2026/09/17
Rohde & Schwarz	LISN	ENV216	101613	2026/08/26	2027/08/25
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2025/09/18	2026/09/17
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2026/08/26	2027/08/25
Unknown	CE Cable	Unknown	UF A210B-1-0720-504504	2025/09/18	2026/09/17
Unknown	CE Cable	Unknown	UF A210B-1-0720-504504	2026/08/26	2027/08/25
Audix	EMI Test software	E3	191218 V9(c)	NCR	NCR
Radiated Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2026/08/04	2027/08/03
Sonoma instrument	Pre-amplifier	310 N	186238	2026/08/26	2027/08/25
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2026/06/26	2029/06/25
Unknown	Chamber A Cable	Cable A1	Cable A1	2026/08/26	2027/08/25
Unknown	Chamber A Cable	Cable A2	Cable A2	2026/08/26	2027/08/25
BACL	Active Loop Antenna	1313-1A	4031911	2024/05/14	2027/05/13
Unknown	Chamber A Cable	Cable A3	Cable A3	2026/08/26	2027/08/25
Unknown	Chamber A Cable	Cable A4	Cable A4	2026/08/26	2027/08/25
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR
TDK	Chamber	Chamber A	2#	2026/07/03	2029/07/02
Frequency Stability					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2026/08/04	2027/08/03
BACL	Active Loop Antenna	1313-1A	4031911	2024/05/14	2027/05/13
Unknown	Chamber A Cable	Cable A3	Cable A3	2026/08/26	2027/08/25
Unknown	Chamber A Cable	Cable A4	Cable A4	2026/08/26	2027/08/25
TDK	Chamber	Chamber A	2#	2026/07/03	2029/07/02
BACL	High Low TEMP Test Chamber	BTH-150-40	30144	2025/09/11	2026/09/10
HELLVIAO	Contact voltage regulator	TDGC2-5KVA	Unknown	NCR	NCR
Fluke	Digital Multimeter	287	19000011	2026/03/16	2027/03/15

*** 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§15.203& RSS-GEN CLAUSE 6.8 - ANTENNA REQUIREMENT

Applicable Standard

According to 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.

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.

According to RSS-Gen §6.8, The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list. For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below). When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.
The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.
For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

Antenna Connected Construction

The EUT has four internal antennas arrangement for RFID which were permanently attached; fulfill the requirement of this section. Please refer to the EUT photos.

Antenna	Type	input impedance (Ohm)	Frequency Range
	Coil	50	13.56MHz

Result: Compliant.

FCC§1.1310 & §2.1091- Maximum Permissible Exposure (MPE)

Applicable Standard

According to subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	**Electric Field Strength (V/m)**	**Magnetic Field Strength (A/m)**	**Power Density (mW/cm^2)**	**Averaging Time (minutes)**
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f^2)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Result

Calculation formula:

Prediction of power density at the distance of the applicable MPE limit
$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm^2);
P = power input to the antenna (in appropriate units, e.g., mW);
G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Calculated Data:

For worst case:

Mode	Frequency (MHz)	Antenna Gain#		Max Tune-up Power#		Evaluation Distance (cm)	Power Density (mW/cm^2)	MPE Limit (mW/cm^2)
		(dBi)	(numeric)	(dBm)	(mW)			
2.4G Wi-Fi	2412-2472	1.97	1.57	28.0	630.96	20	0.1971	1

Mode	Frequency (MHz)	Maximum E-Field (dBuV/m@3m)	Maximum EIRP		Evaluation Distance (cm)	Power Density (mW/cm^2)	MPE Limit (mW/cm^2)
			(dBm)	(mW)			
RFID	13.56	70.05	-25.15	0.0031	20	0.00000062	0.979

Note:
1) The tune up conducted power and antenna gain was declared by the applicant.
2) For RFID, EIRP = E-Field – 95.2 @3m
3) Four RFID antennas cannot transmit simultaneously.

Simultaneous transmitting consideration *(worst case)*:

The ratio= MPE_{RFID}/limit+ $MPE_{2.4G\ Wi\text{-}Fi}$/limit =0.00000062/0.979+0.1971/1=0.197<1.0,

so simultaneous exposure is compliant.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant

RSS-102 § 6.6 –Field reference level exposure exemption limits

Applicable Standard

According to RSS-102 Issue 6§6.6:

Field reference level (FRL) exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm (i.e. mobile devices), except when the device operates as follows:

• below 20 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 1 W (adjusted for tune-up tolerance)

• at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than $4.49/f^{0.5}$ W (adjusted for tune-up tolerance), where f is in MHz

• at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance)

• at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz

• at or above 6 GHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 5 W (adjusted for tune-up tolerance) In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the EIRP was derived.

Calculated Data:

Mode	Frequency (MHz)	Maximum tune-up conducted power# (dBm)	Antenna Gain#	Maximum tune-up EIRP		Evaluation Distance (m)	Limit (mW)
			(dBi)	(dBm)	(mW)		
2.4G Wi-Fi	2412-2472	28.0	1.97	29.97	993.12	0.2	2684

Mode	Frequency (MHz)	Maximum E-Field (dBuV/m@3m)	Maximum EIRP		Evaluation Distance (m)	EIRP Limit (mW)
			(dBm)	(mW)		
RFID	13.56	70.05	-25.15	0.003	0.2	1000

Note: 1. The tune up conducted power and antenna gain was declared by the applicant.
2. For RFID, EIRP = E-Field – 95.2 @3m
3. Four RFID antennas cannot transmit simultaneously.

Simultaneous transmitting consideration *(worst case)*:

The ratio= $EIRP_{RFID}$ /limit + $EIRP_{2.4G}$/limit = 0.003/1000+993.12/2684 =0.370<1.0

So simultaneous exposure is compliant.

Result: Compliant

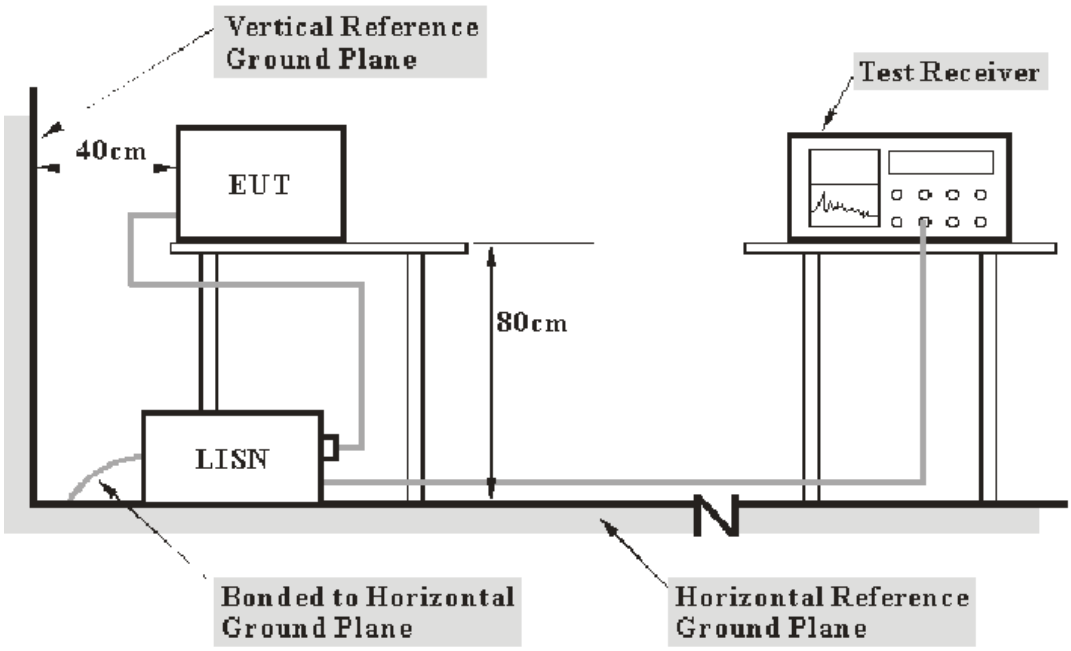
Note: To maintain compliance with the RF exposure guidelines, place the equipment at least 20cm from nearby persons.

FCC §15.207& RSS-GEN CLAUSE 8.8 - AC LINE CONDUCTED EMISSION

Applicable Standard

FCC§15.207 and RSS-Gen§8.8.

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 setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 and RSS-Gen 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 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	RBW
150 kHz – 30MHz	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.

Factor & Over Limit Calculation

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

Factor = LISN VDF + Cable Loss

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:

Over Limit = Level – Limit
Level = Read Level + Factor

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

Test Data

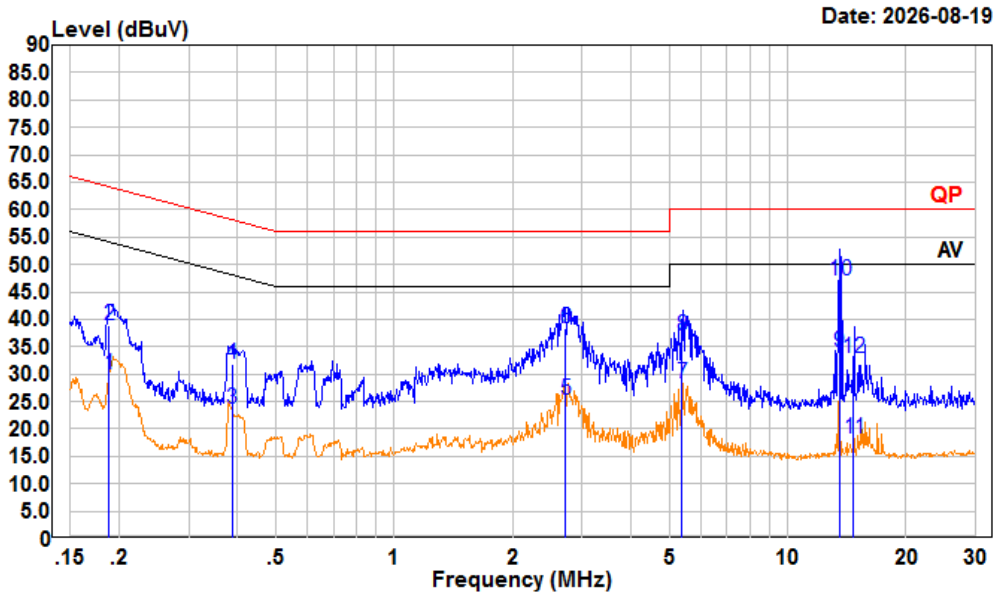
Environmental Conditions

Temperature:	24.8~25.2 ℃
Relative Humidity:	53~56 %
ATM Pressure:	99.7~101.1 kPa

The testing was performed by Macy Shi from 2026-08-19 to 2026-10-13.

Test mode: Transmitting

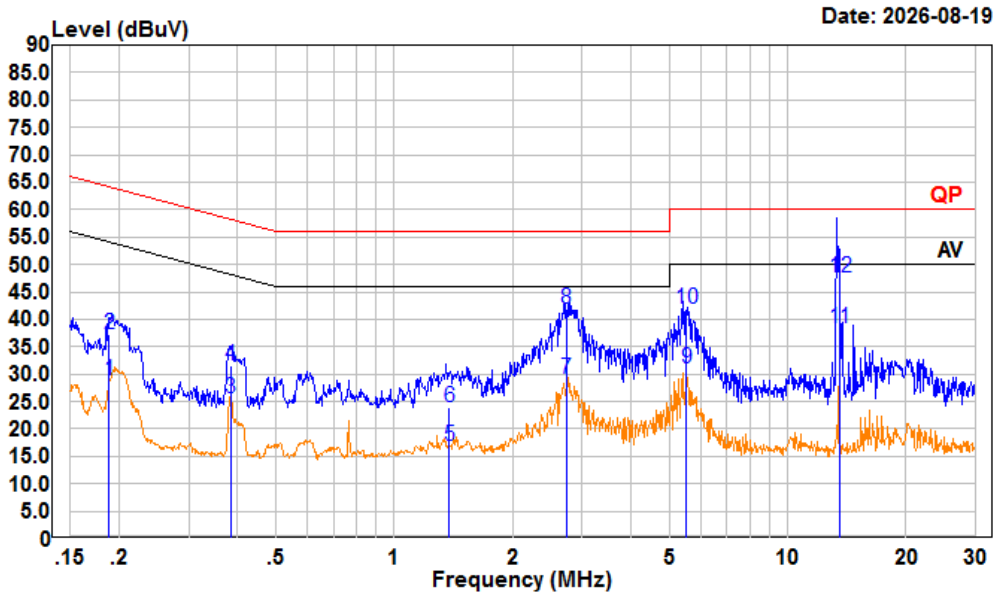
AC 120 V/60 Hz, Line



Condition: Line
Project : 2601U16169E-RF
tester : Macy.shi Note:Transmitting
Setting : RBW:9kHz

	Freq	Read Level	Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.188	10.35	29.98	9.60	10.03	54.13	-24.15	Average
2	0.188	19.40	39.03	9.60	10.03	64.13	-25.10	QP
3	0.387	3.98	23.61	9.60	10.03	48.13	-24.52	Average
4	0.387	12.20	31.83	9.60	10.03	58.13	-26.30	QP
5	2.727	5.60	25.40	9.60	10.20	46.00	-20.60	Average
6	2.727	18.50	38.30	9.60	10.20	56.00	-17.70	QP
7	5.386	8.53	28.42	9.65	10.24	50.00	-21.58	Average
8	5.386	17.21	37.10	9.65	10.24	60.00	-22.90	QP
9	13.514	13.79	33.86	9.70	10.37	50.00	-16.14	Average
10	13.514	27.10	47.17	9.70	10.37	60.00	-12.83	QP
11	14.714	-1.91	18.17	9.70	10.38	50.00	-31.83	Average
12	14.714	12.80	32.88	9.70	10.38	60.00	-27.12	QP

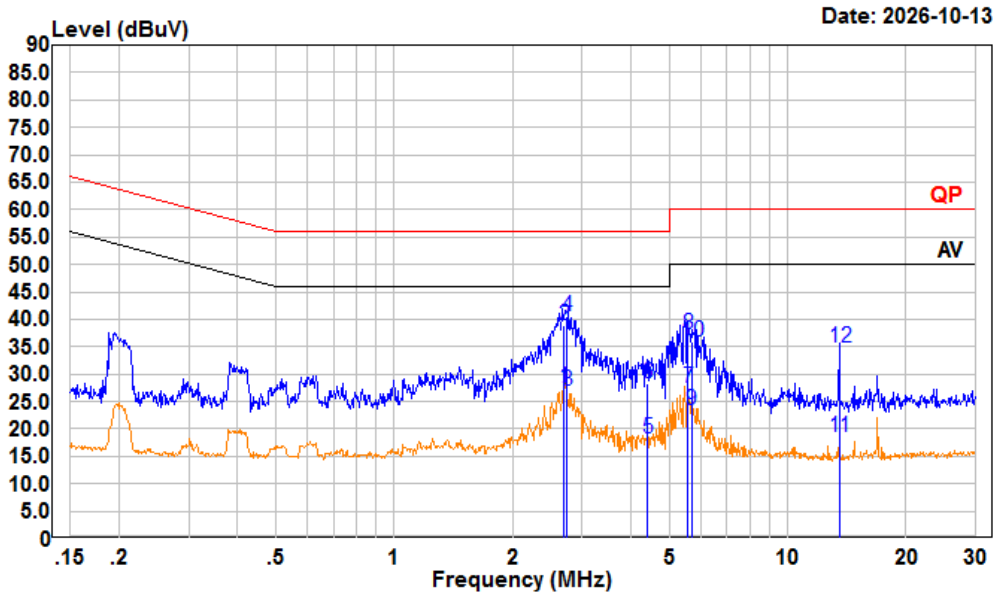
AC 120V/ 60 Hz, Neutral



Condition: neutral
Project : 2601U16169E-RF
tester : Macy.shi Note:Transmitting
Setting : RBW:9kHz

	Freq	Read Level	LISN Level	Cable Factor	Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.189	9.17	28.80	9.60	10.03	54.09	-25.29	Average
2	0.189	17.60	37.23	9.60	10.03	64.09	-26.86	QP
3	0.384	5.83	25.46	9.60	10.03	48.20	-22.74	Average
4	0.384	12.03	31.66	9.60	10.03	58.20	-26.54	QP
5	1.380	-3.03	16.78	9.60	10.21	46.00	-29.22	Average
6	1.380	4.15	23.96	9.60	10.21	56.00	-32.04	QP
7	2.742	9.29	29.09	9.60	10.20	46.00	-16.91	Average
8	2.742	22.11	41.91	9.60	10.20	56.00	-14.09	QP
9	5.518	11.13	31.04	9.66	10.25	50.00	-18.96	Average
10	5.518	22.03	41.94	9.66	10.25	60.00	-18.06	QP
11	13.514	18.27	38.34	9.70	10.37	50.00	-11.66	Average
12	13.514	27.50	47.57	9.70	10.37	60.00	-12.43	QP

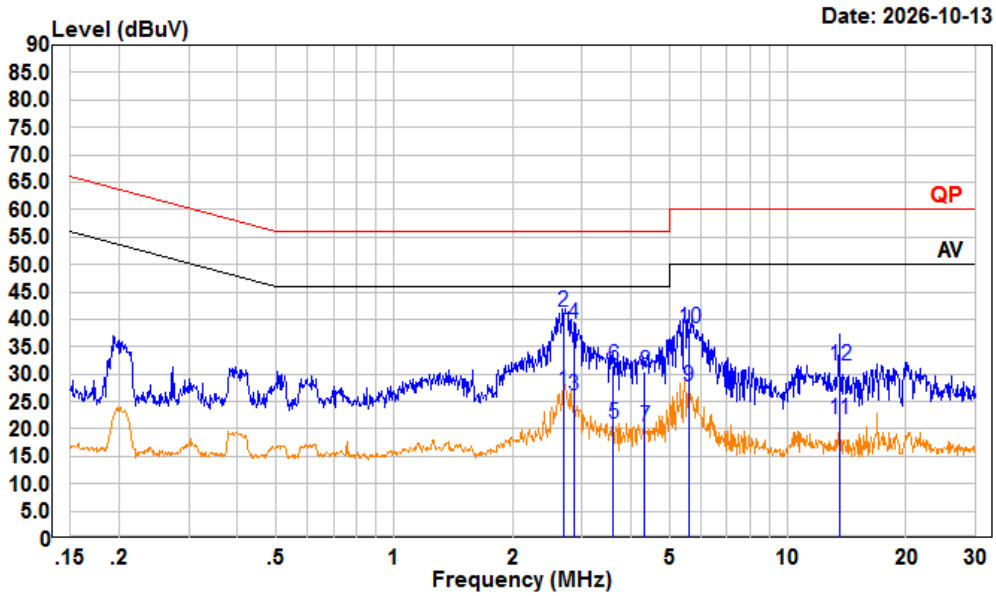
AC 240 V/60 Hz, Line



Condition: Line
Project : 2601U16169E-RF
tester : Macy.shi Note:Transmitting
Setting : RBW:9kHz

	Freq	Read Level	Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	2.704	7.61	27.41	9.60	10.20	46.00	-18.59	Average
2	2.704	19.03	38.83	9.60	10.20	56.00	-17.17	QP
3	2.751	7.10	26.90	9.60	10.20	46.00	-19.10	Average
4	2.751	20.66	40.46	9.60	10.20	56.00	-15.54	QP
5	4.406	-1.53	18.31	9.62	10.22	46.00	-27.69	Average
6	4.406	8.32	28.16	9.62	10.22	56.00	-27.84	QP
7	5.568	7.54	27.45	9.66	10.25	50.00	-22.55	Average
8	5.568	17.23	37.14	9.66	10.25	60.00	-22.86	QP
9	5.703	3.53	23.44	9.66	10.25	50.00	-26.56	Average
10	5.703	16.08	35.99	9.66	10.25	60.00	-24.01	QP
11	13.560	-1.46	18.61	9.70	10.37	50.00	-31.39	Average
12	13.560	14.63	34.70	9.70	10.37	60.00	-25.30	QP

AC 240V/ 60 Hz, Neutral



Condition: neutral
Project : 2601U16169E-RF
tester : Macy.shi Note:Transmitting
Setting : RBW:9kHz

	Freq	Read Level	LISN Level	Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	2.685	7.22	27.02	9.60	10.20	46.00	-18.98	Average
2	2.685	21.44	41.24	9.60	10.20	56.00	-14.76	QP
3	2.856	6.38	26.18	9.60	10.20	46.00	-19.82	Average
4	2.856	19.35	39.15	9.60	10.20	56.00	-16.85	QP
5	3.598	1.19	21.00	9.60	10.21	46.00	-25.00	Average
6	3.598	11.67	31.48	9.60	10.21	56.00	-24.52	QP
7	4.336	0.49	20.32	9.61	10.22	46.00	-25.68	Average
8	4.336	10.65	30.48	9.61	10.22	56.00	-25.52	QP
9	5.603	7.75	27.66	9.66	10.25	50.00	-22.34	Average
10	5.603	18.32	38.23	9.66	10.25	60.00	-21.77	QP
11	13.514	1.70	21.77	9.70	10.37	50.00	-28.23	Average
12	13.514	11.60	31.67	9.70	10.37	60.00	-28.33	QP

FCC§15.225, §15.205& §15.209& RSS-GEN§8.9 & RSS-210 ANNEX B.6(a) - RADIATED EMISSIONS TEST

Applicable Standard

As per FCC Part 15.225

(a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

(b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

(d) The field strength of any emissions appearing outside of the 13.110–14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

According to RSS-210 Annex B.6(a).

The field strength of any emission shall not exceed the following limits:

a. 15.848 mV/m (84dBµV/m) at 30 m, within the band 13.553-13.567 MHz;

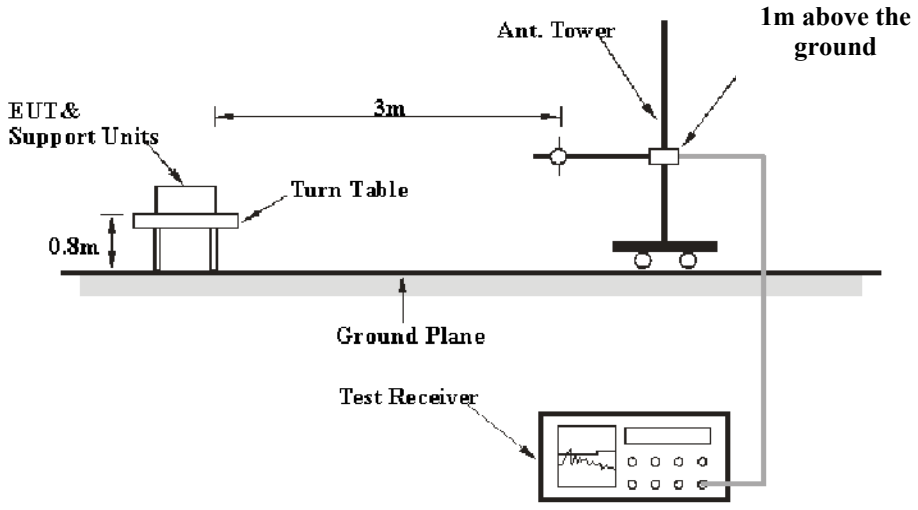
b. 334 µV/m (50.47dBµV/m) at 30 m, within the bands 13.410-13.553 MHz and 13.567-13.710 MHz;

c. 106 µV/m (40.51dBµV/m) at 30 m, within the bands 13.110-13.410 MHz and 13.710-14.010 MHz;

d. RSS-Gen general field strength limits for frequencies outside the band 13.110-14.010 MHz

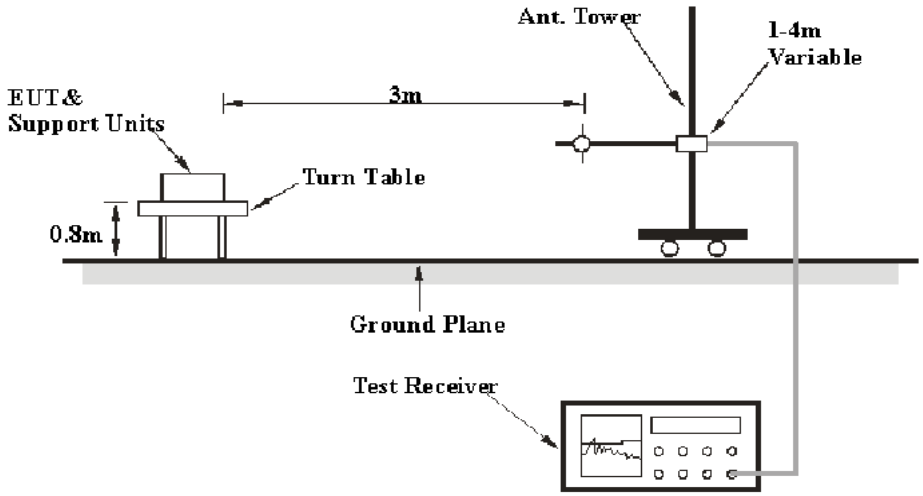
EUT Setup

9 kHz-30MHz:



Note: Antenna is set up at 1m during test for below 30MHz.

30MHz-1GHz:



The radiated emission tests were performed in the 3-meter chamber a test site, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC Part 15.225, 15.209, 15.205, RSS-210 and RSS-Gen limits.

EMI Test Receiver Setup

The EUT emissions were investigated up to 1000 MHz.

During the radiated emission test, the EMI test Receiver was set with the following configurations:

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

All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz.

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

Factor & Over Limit/Margin Calculation

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

Factor = Antenna Factor + Cable Loss- Amplifier Gain
Level= Read Level + Factor

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

Over Limit = Level – Limit

Test Data

Environmental Conditions

Temperature:	24.5 ℃
Relative Humidity:	51 %
ATM Pressure:	99.7 kPa

The testing was performed by Alex Yan and Anson Su on 2026-08-27.

Test mode: Transmitting

Note:
1. For the spurious emission below 30MHz, the unit of final result on the test plots are dBμV/m, so the limit should be added by 51,5 dB from dBμA/m to dBμV/m.

2. When the result of Peak below the limit of QP more than 6dB, just the peak value was record.

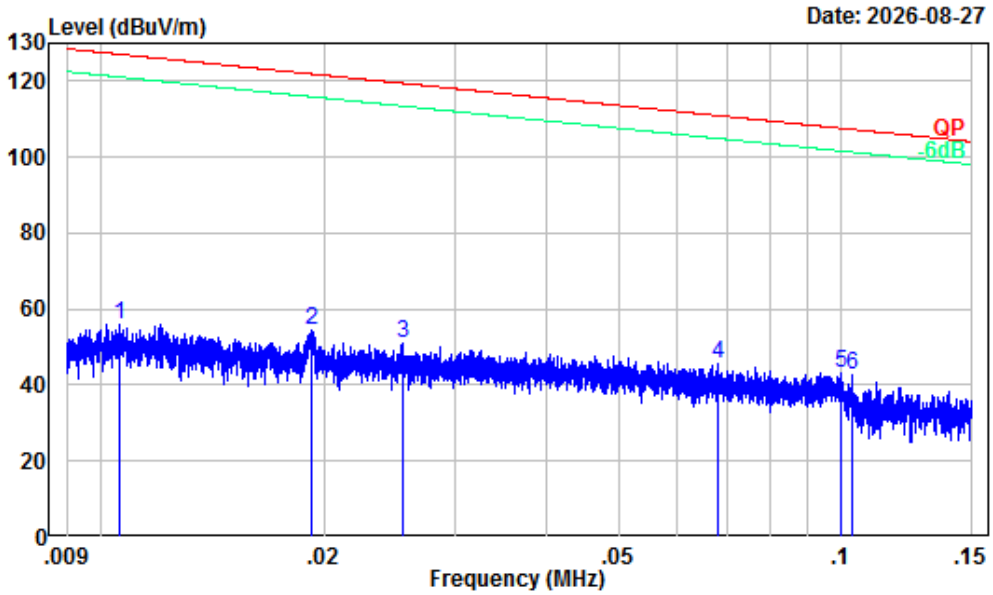
1) Spurious Emissions (9 kHz~30 MHz):

Part 15 Section 15.31(f)(2) and RSS-GEN Section 6.5,
Limit @ 3m=Limit @ 300m-40*log(3(m)/300(m))
Limit @ 3m=Limit @ 30m-40*log(3(m)/30(m))

ANT1

Ground-parallel

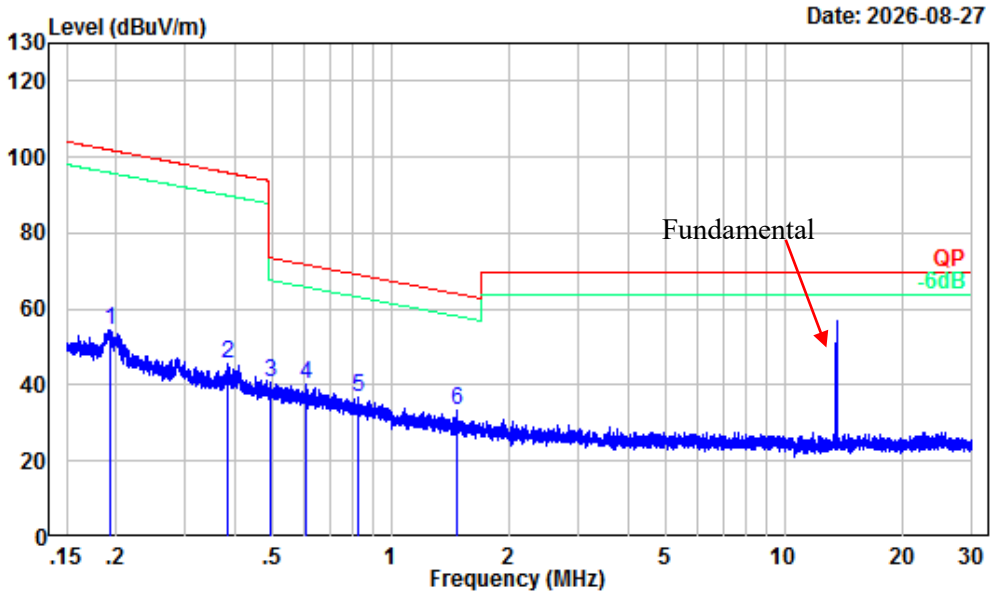
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : ground-parallel
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.011	32.18	23.78	55.96	127.08	-71.12	Peak
2	0.019	30.55	23.70	54.25	121.93	-67.68	Peak
3	0.026	29.35	21.72	51.07	119.46	-68.39	Peak
4	0.068	24.59	21.20	45.79	110.94	-65.15	Peak
5	0.100	22.02	20.98	43.00	107.63	-64.63	Peak
6	0.104	21.79	21.12	42.91	107.31	-64.40	Peak

150 kHz~30 MHz

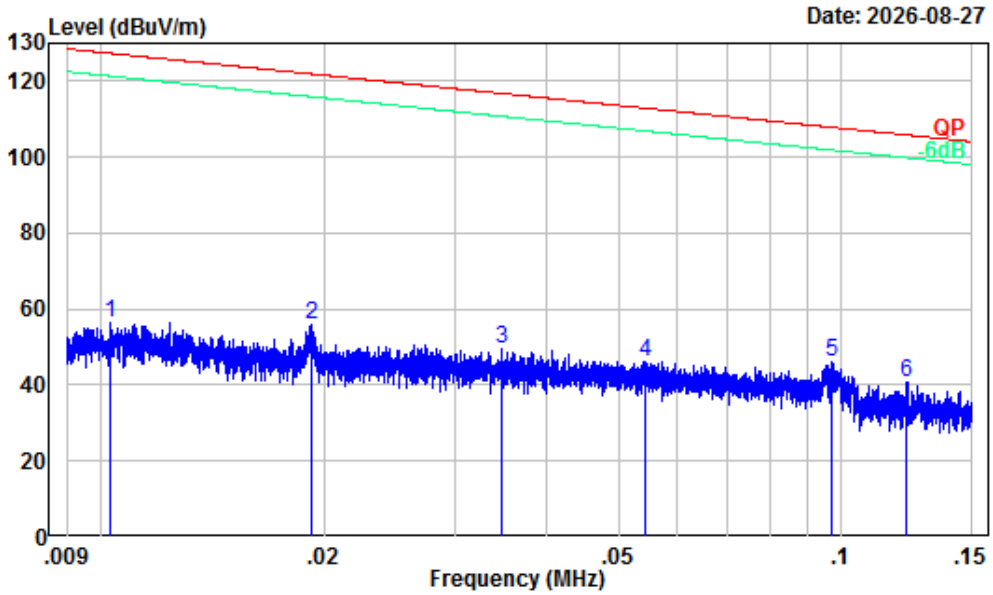


Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : ground-parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.193	16.51	38.07	54.58	101.89	-47.31	Peak
2	0.385	8.58	36.93	45.51	95.88	-50.37	Peak
3	0.495	6.49	34.13	40.62	73.71	-33.09	Peak
4	0.607	5.08	35.20	40.28	71.90	-31.62	Peak
5	0.824	2.52	34.13	36.65	69.18	-32.53	Peak
6	1.472	-0.12	33.33	33.21	64.04	-30.83	Peak

Perpendicular

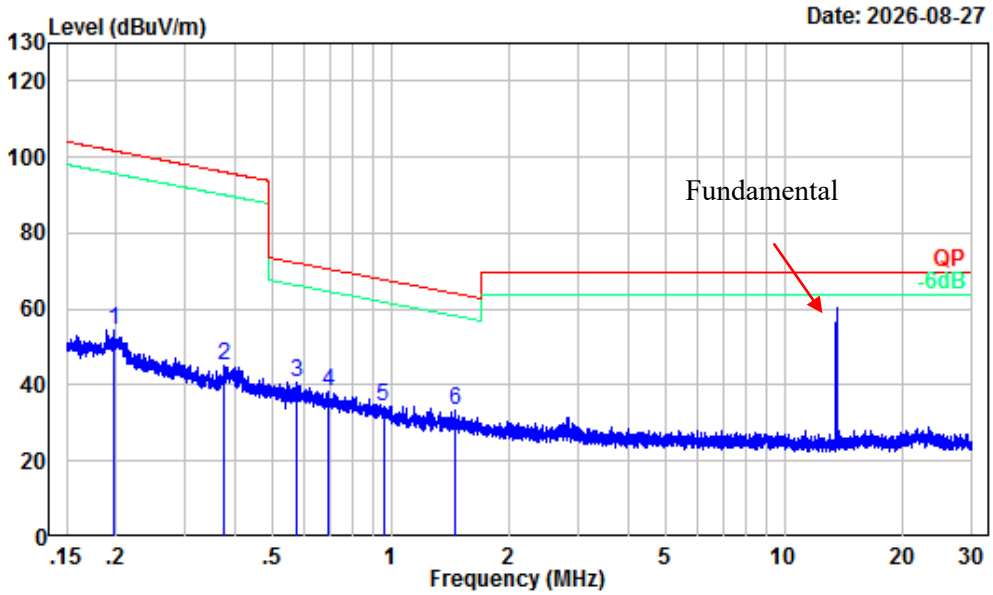
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : perpendicular
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.010	32.24	24.20	56.44	127.35	-70.91	Peak
2	0.019	30.55	25.25	55.80	121.93	-66.13	Peak
3	0.035	28.00	21.46	49.46	116.79	-67.33	Peak
4	0.054	25.97	20.26	46.23	112.91	-66.68	Peak
5	0.097	22.23	23.76	45.99	107.89	-61.90	Peak
6	0.123	20.67	20.04	40.71	105.84	-65.13	Peak

150 kHz~30 MHz

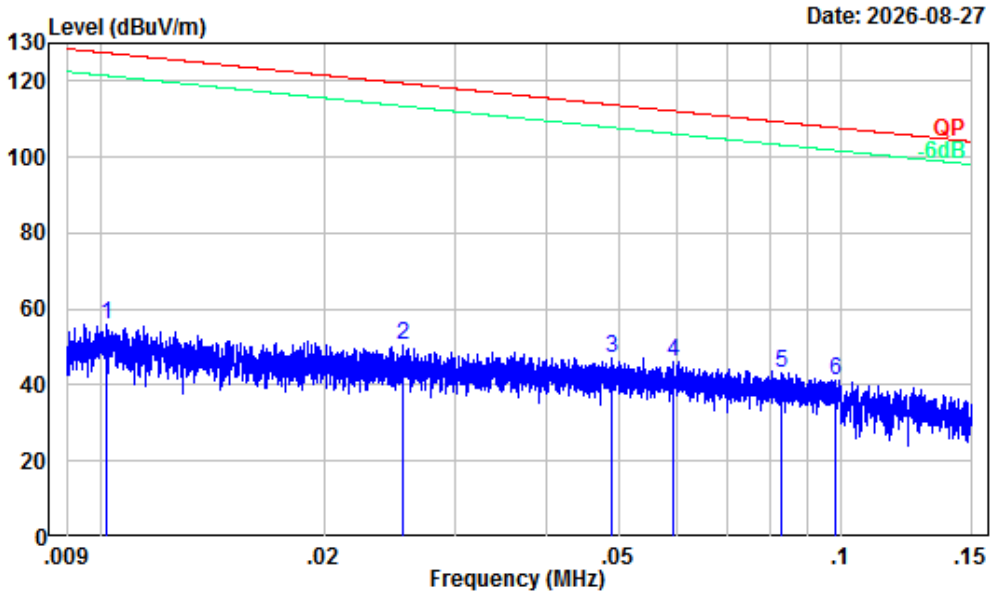


Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : perpendicular
Detector: Peak RBW/VBW: 10/30kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.198	16.22	38.13	54.35	101.67	-47.32	Peak
2	0.375	8.77	36.30	45.07	96.11	-51.04	Peak
3	0.575	5.47	35.14	40.61	72.38	-31.77	Peak
4	0.690	4.06	34.37	38.43	70.77	-32.34	Peak
5	0.957	1.52	33.04	34.56	67.86	-33.30	Peak
6	1.453	-0.07	33.67	33.60	64.16	-30.56	Peak

Parallel

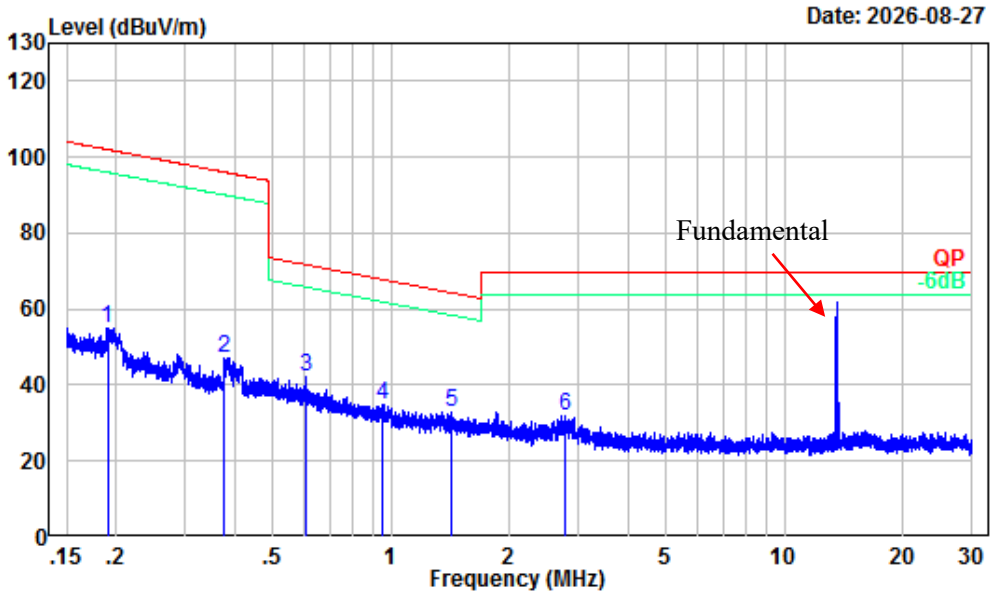
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : parallel
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.010	32.27	23.50	55.77	127.47	-71.70	Peak
2	0.026	29.33	21.04	50.37	119.44	-69.07	Peak
3	0.049	26.50	20.73	47.23	113.79	-66.56	Peak
4	0.059	25.46	20.75	46.21	112.13	-65.92	Peak
5	0.083	23.20	20.13	43.33	109.24	-65.91	Peak
6	0.098	22.15	19.24	41.39	107.79	-66.40	Peak

150 kHz~30 MHz

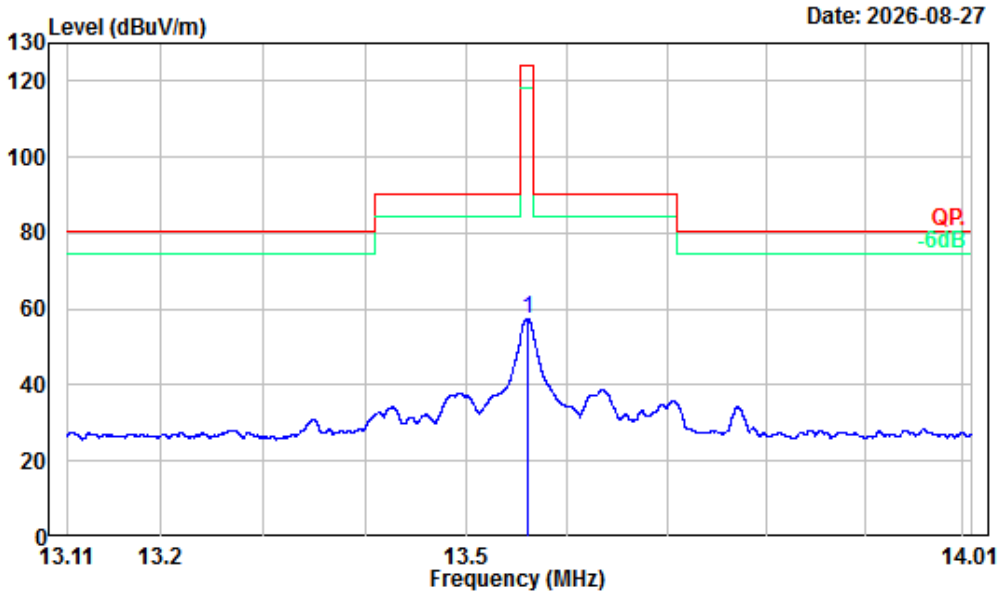


Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.190	16.67	38.33	55.00	102.02	-47.02	Peak
2	0.377	8.73	38.49	47.22	96.07	-48.85	Peak
3	0.606	5.10	36.90	42.00	71.92	-29.92	Peak
4	0.951	1.57	33.25	34.82	67.92	-33.10	Peak
5	1.423	0.02	33.04	33.06	64.34	-31.28	Peak
6	2.763	-2.02	33.79	31.77	69.54	-37.77	Peak

2) Emission Mask & Fundamental:

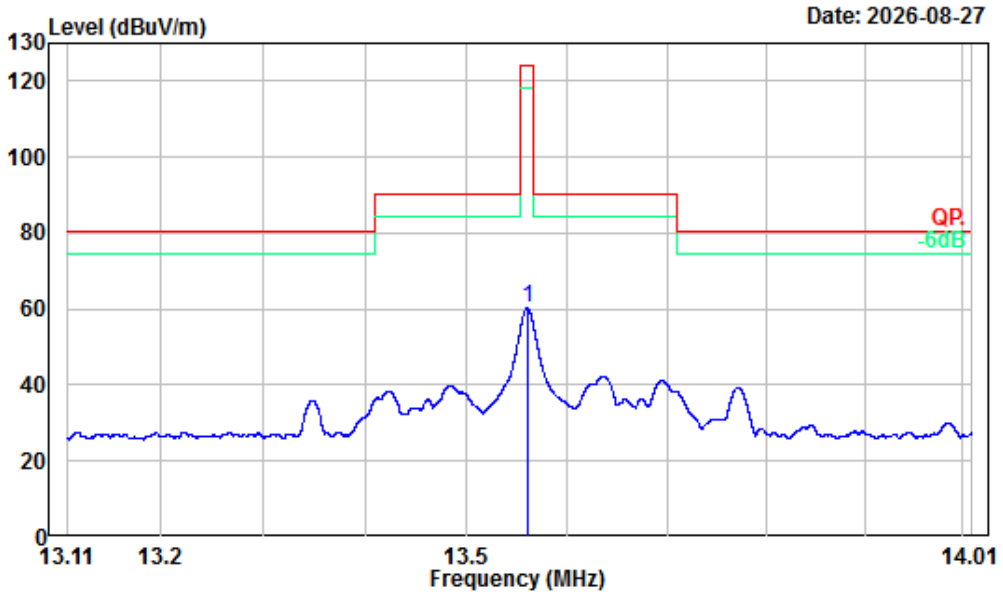
Ground-parallel



Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : ground-parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	13.560	-2.72	60.34	57.62	124.00	-66.38	Peak

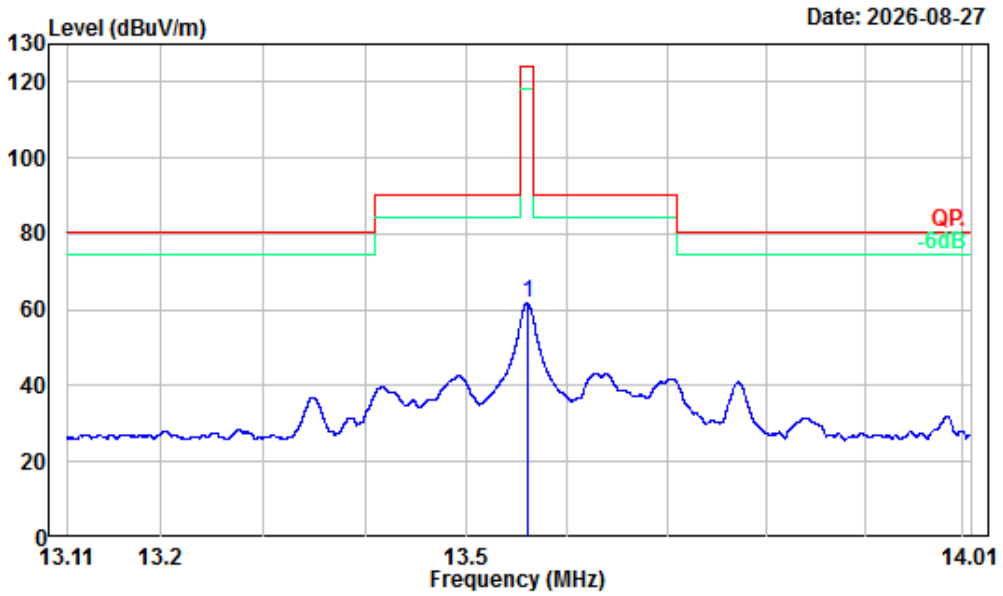
Perpendicular



Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : perpendicular
Detector: Peak RBW/VBW: 10/30kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	13.560	-2.72	62.87	60.15	124.00	-63.85	Peak

Parallel

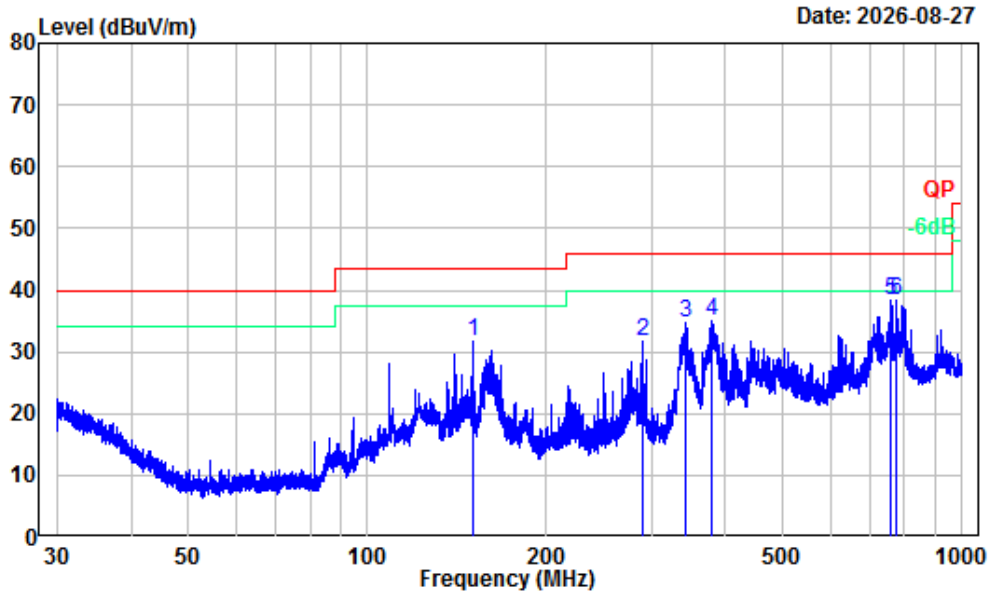


Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	13.560	-2.72	64.48	61.76	124.00	-62.24	Peak

3) Spurious Emissions (30 MHz~1GHz):

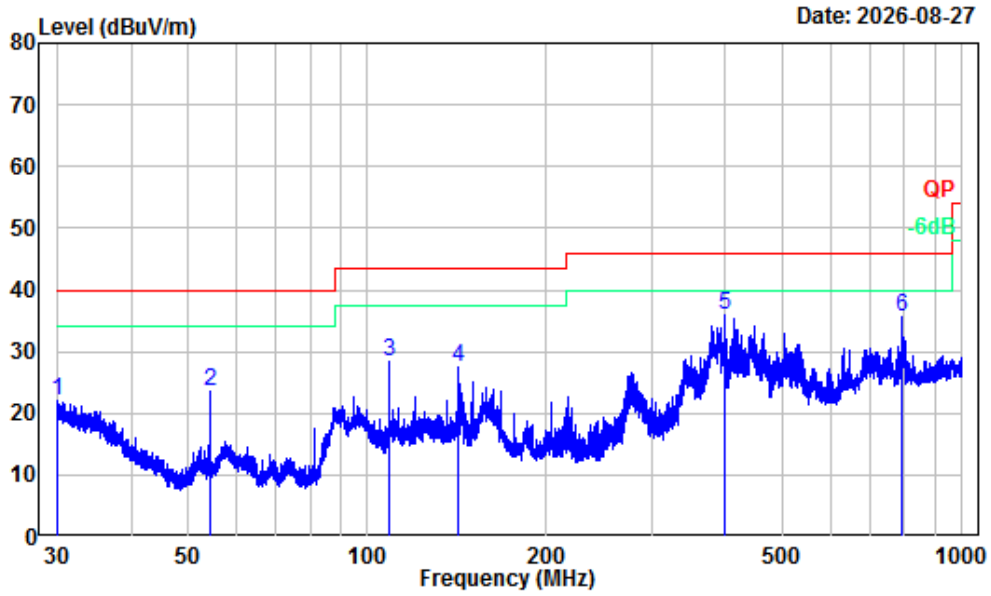
Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 120/500kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	150.011	-11.99	43.55	31.56	43.50	-11.94	Peak
2	291.164	-10.93	42.54	31.61	46.00	-14.39	Peak
3	343.331	-10.49	45.30	34.81	46.00	-11.19	Peak
4	379.748	-8.85	44.01	35.16	46.00	-10.84	Peak
5	760.370	-2.55	40.94	38.39	46.00	-7.61	Peak
6	773.141	-2.48	40.91	38.43	46.00	-7.57	Peak

Vertical



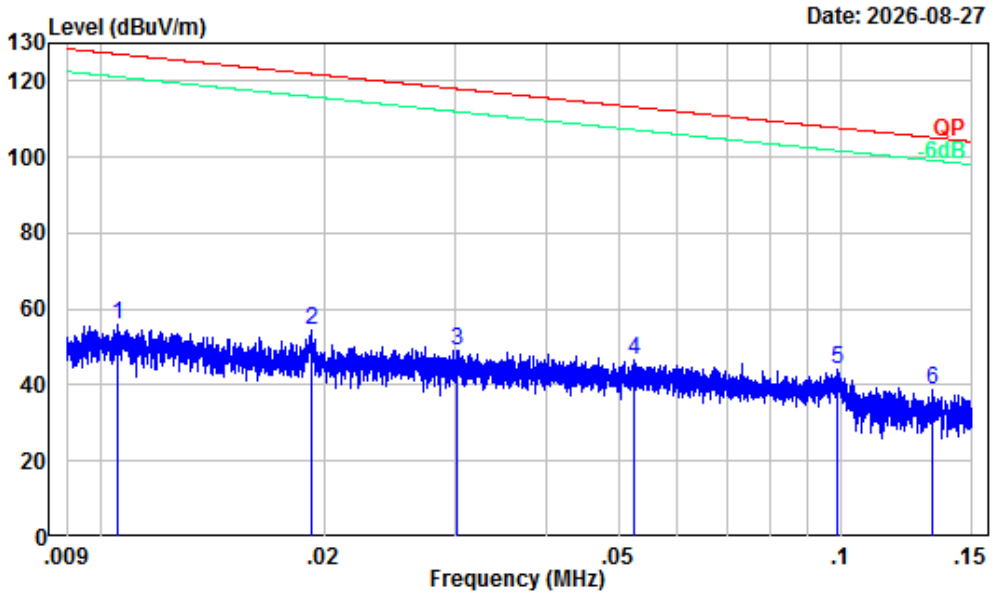
Site : Chamber A
Condition : 3m Vertical
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 120/500kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	30.053	-5.69	27.72	22.03	40.00	-17.97	Peak
2	54.237	-17.93	41.51	23.58	40.00	-16.42	Peak
3	108.457	-13.41	41.68	28.27	43.50	-15.23	Peak
4	142.262	-11.87	39.33	27.46	43.50	-16.04	Peak
5	400.081	-8.60	44.60	36.00	46.00	-10.00	Peak
6	794.440	-2.33	38.05	35.72	46.00	-10.28	Peak

ANT2

Ground-parallel

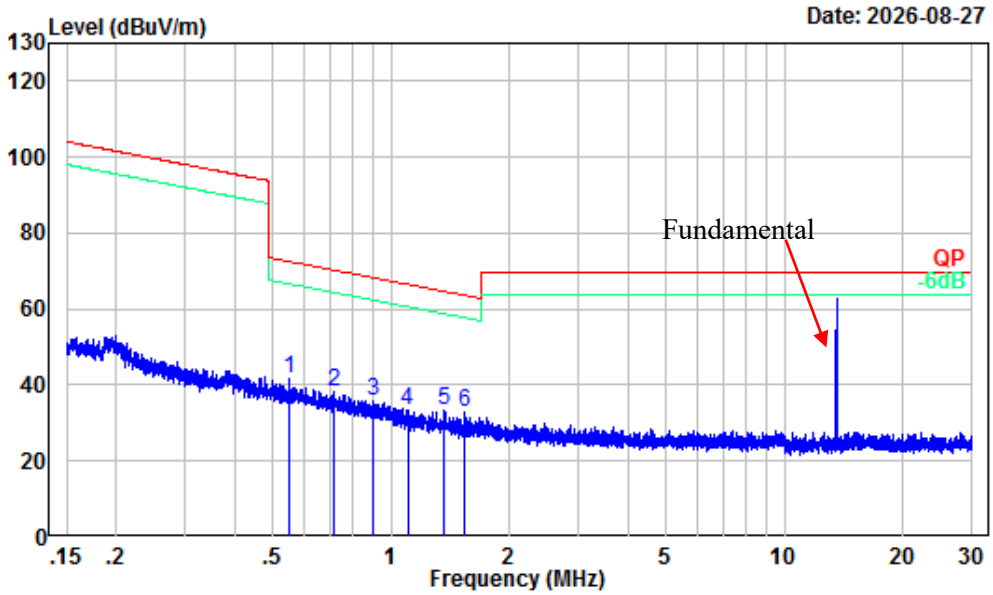
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : Ground-parallel
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.011	32.20	23.51	55.71	127.16	-71.45	Peak
2	0.019	30.53	23.94	54.47	121.90	-67.43	Peak
3	0.030	28.46	20.82	49.28	117.96	-68.68	Peak
4	0.053	26.15	20.43	46.58	113.20	-66.62	Peak
5	0.099	22.08	22.13	44.21	107.70	-63.49	Peak
6	0.133	20.07	18.65	38.72	105.15	-66.43	Peak

150 kHz~30 MHz

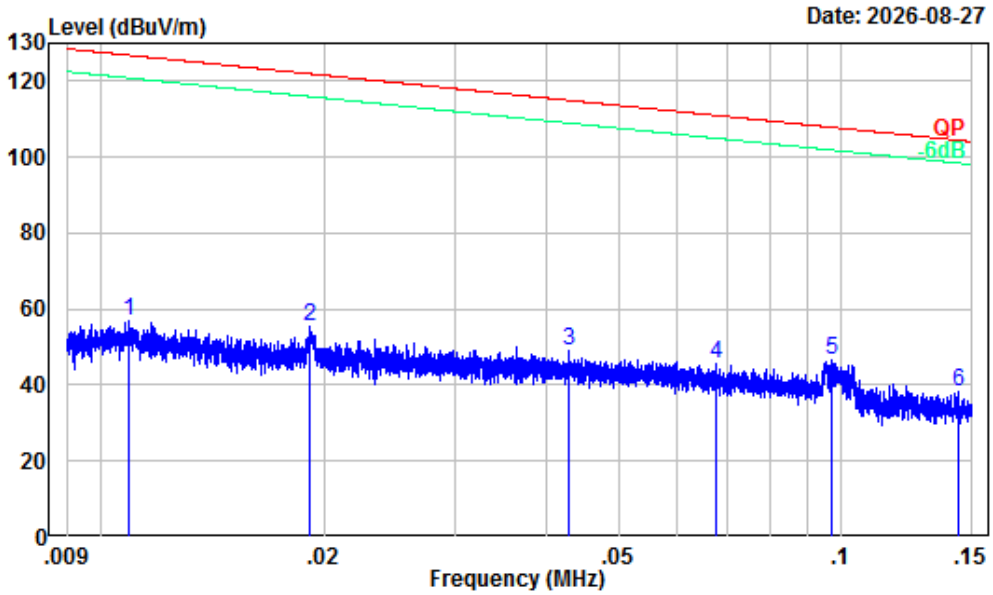


Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : Ground-parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.550	5.78	35.69	41.47	72.77	-31.30	Peak
2	0.720	3.69	34.39	38.08	70.39	-32.31	Peak
3	0.905	1.92	33.76	35.68	68.36	-32.68	Peak
4	1.103	0.91	32.61	33.52	66.61	-33.09	Peak
5	1.370	0.16	33.13	33.29	64.68	-31.39	Peak
6	1.530	-0.29	33.25	32.96	63.70	-30.74	Peak

Perpendicular

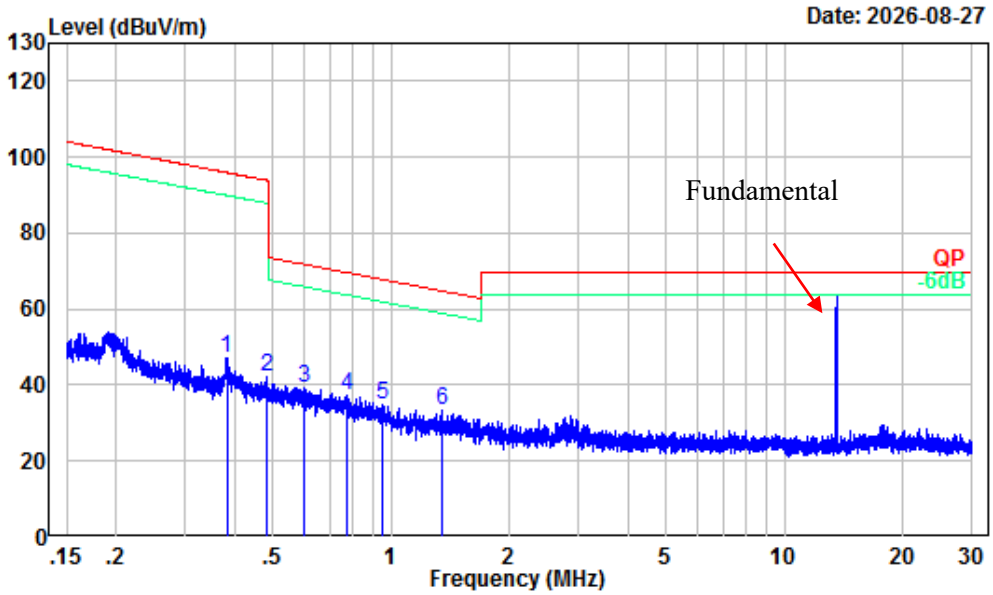
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : Perpendicular
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.011	32.12	24.72	56.84	126.84	-70.00	Peak
2	0.019	30.56	24.65	55.21	121.95	-66.74	Peak
3	0.043	27.16	21.99	49.15	114.98	-65.83	Peak
4	0.068	24.62	20.91	45.53	110.98	-65.45	Peak
5	0.097	22.21	24.28	46.49	107.87	-61.38	Peak
6	0.144	19.41	18.81	38.22	104.44	-66.22	Peak

150 kHz~30 MHz

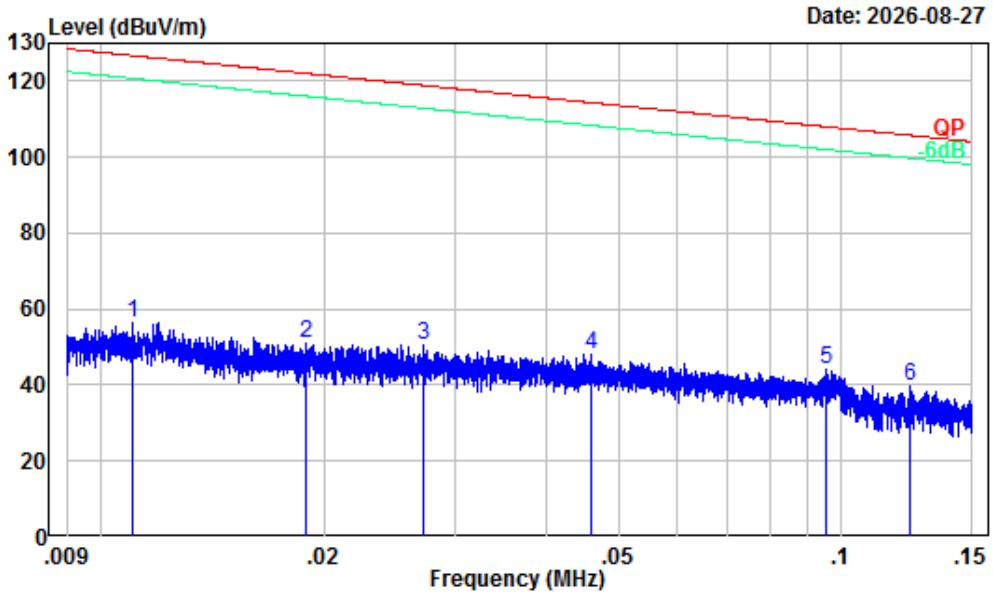


Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : Perpendicular
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.383	8.63	38.68	47.31	95.95	-48.64	Peak
2	0.482	6.74	35.68	42.42	93.94	-51.52	Peak
3	0.604	5.11	34.33	39.44	71.94	-32.50	Peak
4	0.770	3.08	34.21	37.29	69.80	-32.51	Peak
5	0.951	1.57	33.18	34.75	67.92	-33.17	Peak
6	1.344	0.24	33.01	33.25	64.85	-31.60	Peak

Parallel

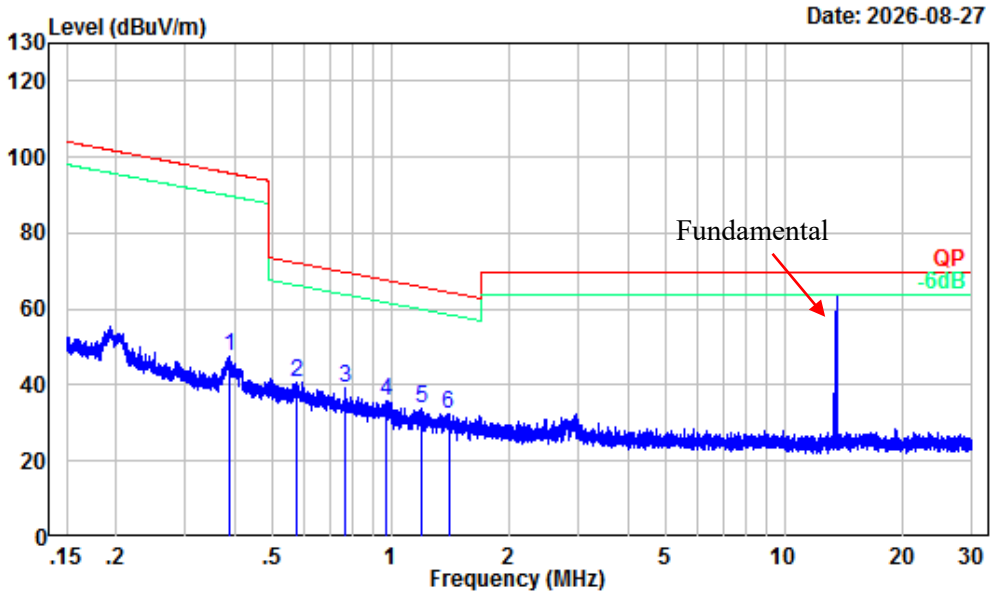
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : Parallel
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.011	32.10	24.19	56.29	126.73	-70.44	Peak
2	0.019	30.60	20.19	50.79	122.04	-71.25	Peak
3	0.027	29.02	21.39	50.41	118.89	-68.48	Peak
4	0.046	26.82	21.15	47.97	114.36	-66.39	Peak
5	0.095	22.35	21.68	44.03	108.04	-64.01	Peak
6	0.124	20.59	18.98	39.57	105.74	-66.17	Peak

150 kHz~30 MHz

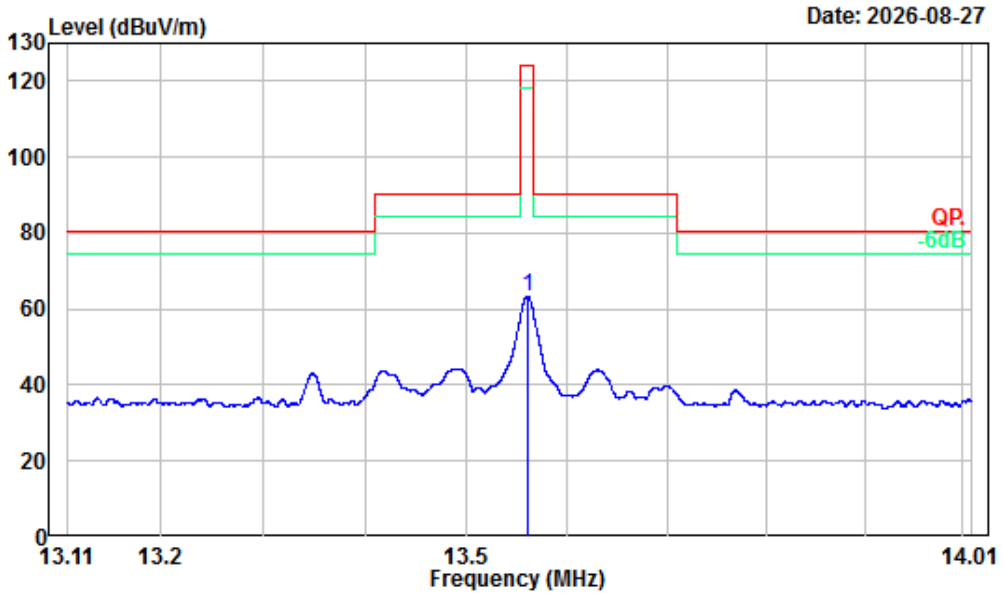


Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : Parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.387	8.55	39.19	47.74	95.85	-48.11	Peak
2	0.578	5.44	35.32	40.76	72.33	-31.57	Peak
3	0.762	3.17	35.97	39.14	69.88	-30.74	Peak
4	0.977	1.37	34.24	35.61	67.68	-32.07	Peak
5	1.198	0.65	33.05	33.70	65.87	-32.17	Peak
6	1.401	0.08	32.39	32.47	64.48	-32.01	Peak

2) Emission Mask & Fundamental:

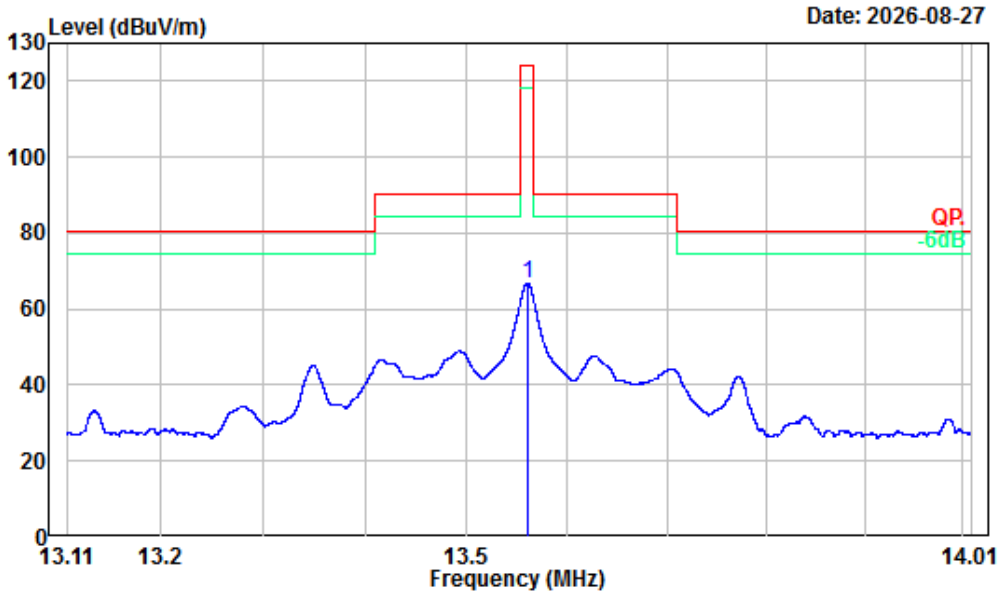
Ground-parallel



Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : Ground-parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	13.560	-2.72	66.07	63.35	124.00	-60.65	Peak

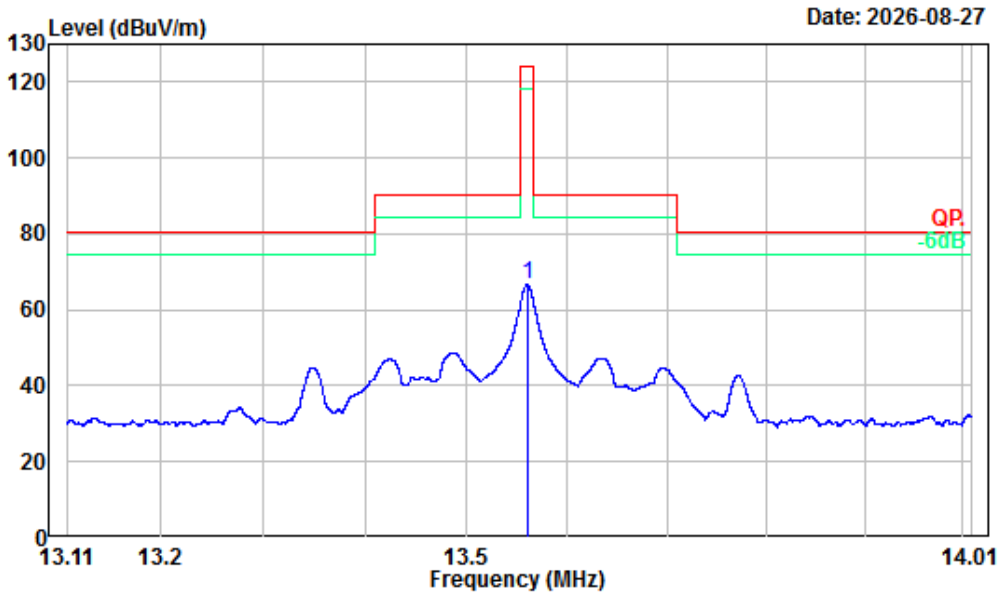
Perpendicular



Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : Perpendicular
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	13.560	-2.72	69.63	66.91	124.00	-57.09	Peak

Parallel

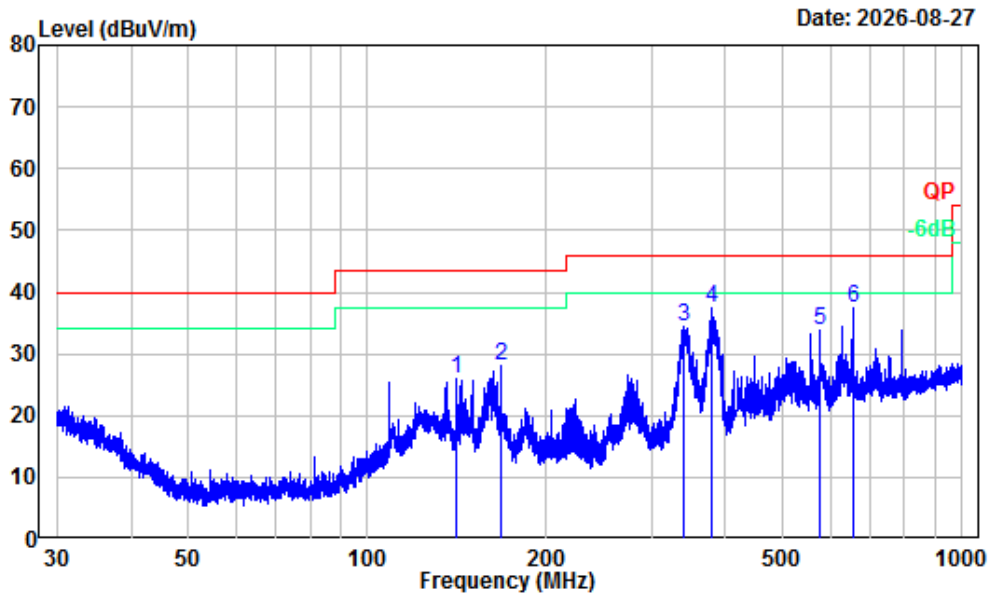


Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : Parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	13.560	-2.72	69.28	66.56	124.00	-57.44	Peak

3) Spurious Emissions (30 MHz~1GHz):

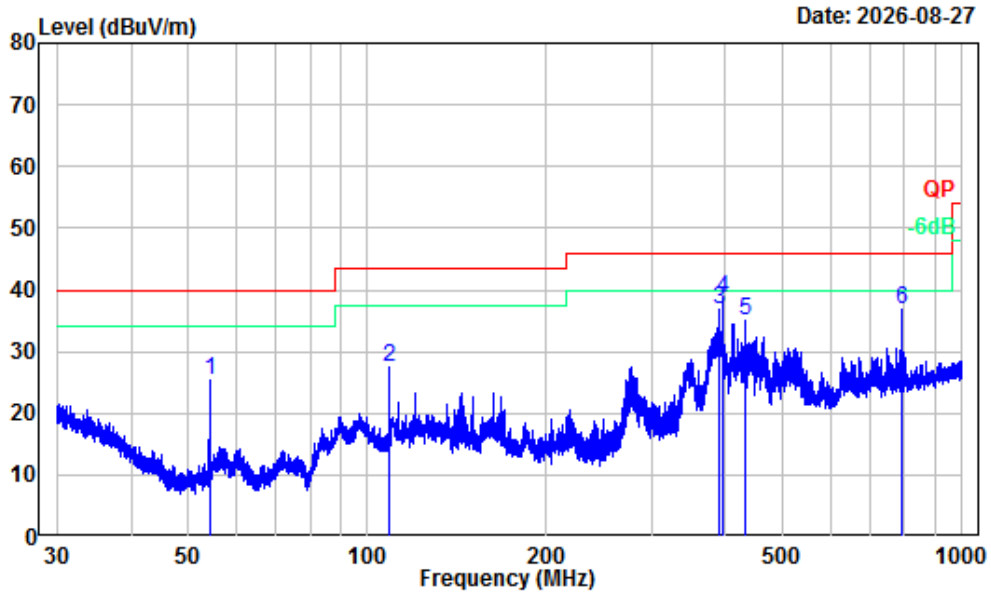
Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 120/500kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	141.39	-11.60	37.57	25.97	43.50	-17.53	Peak
2	167.97	-12.51	40.71	28.20	43.50	-15.30	Peak
3	339.89	-10.50	44.96	34.46	46.00	-11.54	Peak
4	379.75	-8.85	46.22	37.37	46.00	-8.63	Peak
5	576.39	-4.83	38.49	33.66	46.00	-12.34	Peak
6	657.68	-2.94	40.32	37.38	46.00	-8.62	Peak

Vertical



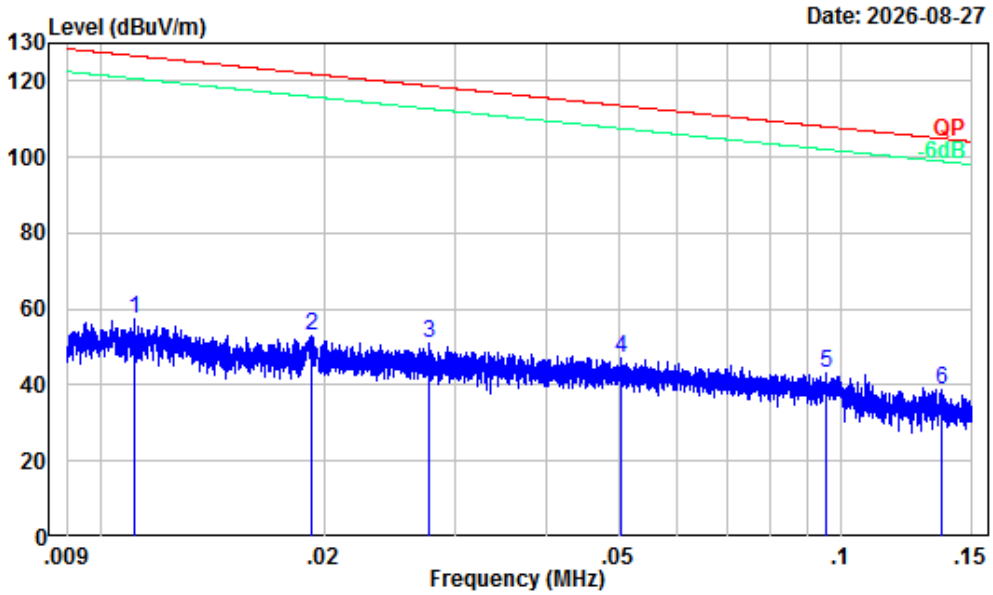
Site : Chamber A
Condition : 3m Vertical
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 120/500kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	54.24	-17.93	43.32	25.39	40.00	-14.61	Peak
2	108.50	-13.37	40.79	27.42	43.50	-16.08	Peak
3	390.21	-8.53	45.37	36.84	46.00	-9.16	Peak
4	396.07	-8.53	47.11	38.58	46.00	-7.42	Peak
5	430.47	-7.17	42.21	35.04	46.00	-10.96	Peak
6	792.01	-2.24	39.13	36.89	46.00	-9.11	Peak

ANT3

Ground-parallel

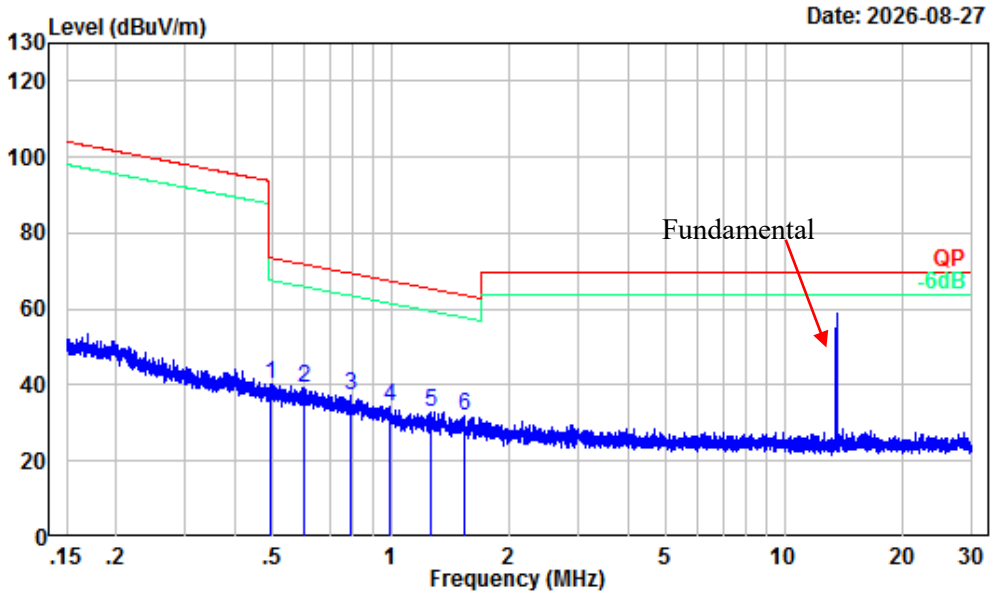
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : Ground-parallel
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.011	32.09	25.29	57.38	126.68	-69.30	Peak
2	0.019	30.53	22.52	53.05	121.90	-68.85	Peak
3	0.028	28.94	22.26	51.20	118.76	-67.56	Peak
4	0.051	26.35	20.96	47.31	113.54	-66.23	Peak
5	0.095	22.32	20.96	43.28	108.00	-64.72	Peak
6	0.136	19.86	18.88	38.74	104.91	-66.17	Peak

150 kHz~30 MHz

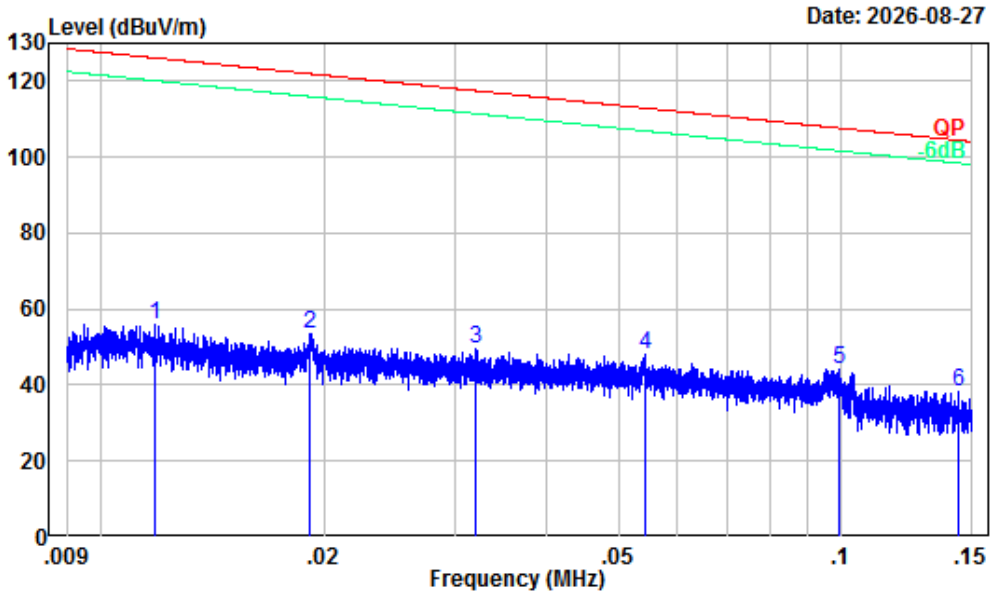


Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : Ground-parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.494	6.52	33.76	40.28	73.73	-33.45	Peak
2	0.605	5.11	34.34	39.45	71.93	-32.48	Peak
3	0.789	2.83	34.22	37.05	69.57	-32.52	Peak
4	0.994	1.25	33.00	34.25	67.53	-33.28	Peak
5	1.267	0.45	32.52	32.97	65.37	-32.40	Peak
6	1.534	-0.30	32.19	31.89	63.67	-31.78	Peak

Perpendicular

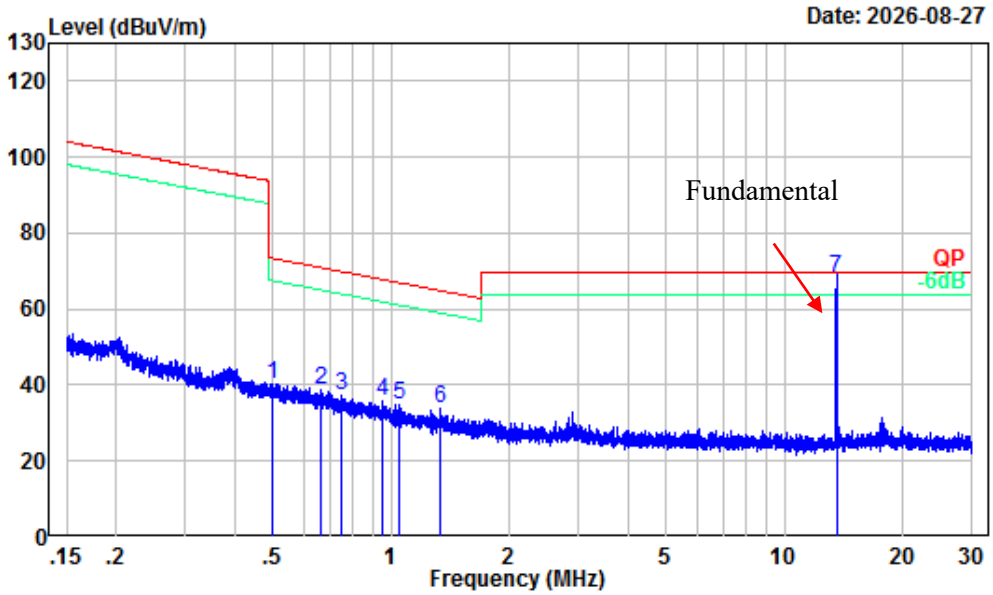
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : Perpendicular
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.012	31.96	24.19	56.15	126.16	-70.01	Peak
2	0.019	30.55	22.99	53.54	121.94	-68.40	Peak
3	0.032	28.29	21.35	49.64	117.50	-67.86	Peak
4	0.054	25.97	22.10	48.07	112.91	-64.84	Peak
5	0.099	22.05	22.20	44.25	107.67	-63.42	Peak
6	0.144	19.42	18.77	38.19	104.46	-66.27	Peak

150 kHz~30 MHz

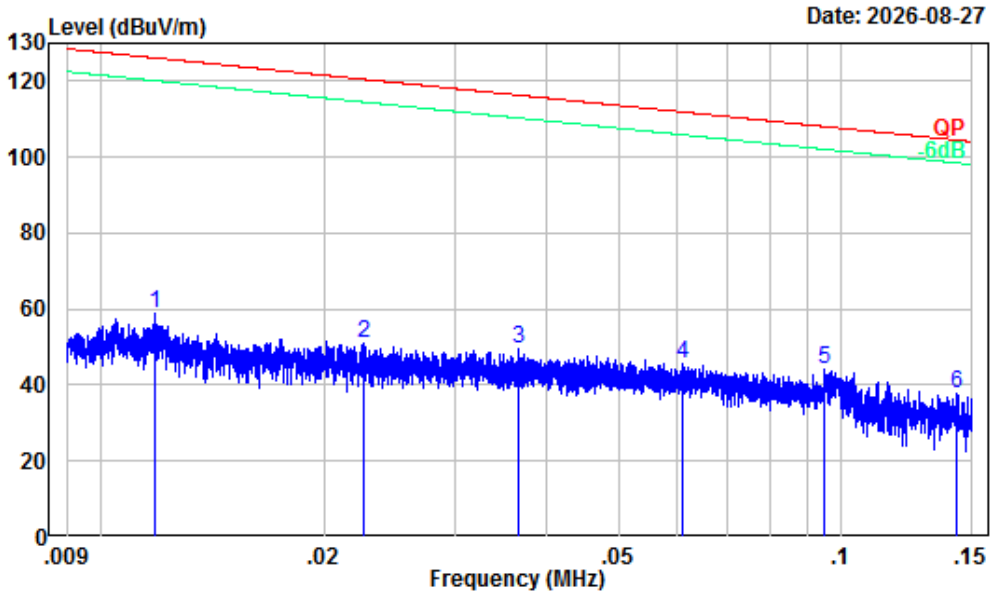


Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : Perpendicular
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.499	6.41	33.93	40.34	73.63	-33.29	Peak
2	0.666	4.35	34.19	38.54	71.08	-32.54	Peak
3	0.746	3.37	34.14	37.51	70.07	-32.56	Peak
4	0.950	1.58	34.44	36.02	67.93	-31.91	Peak
5	1.051	1.06	33.94	35.00	67.03	-32.03	Peak
6	1.338	0.25	33.52	33.77	64.89	-31.12	Peak
7	13.560	-2.72	71.02	68.30	69.54	-1.24	QP

Parallel

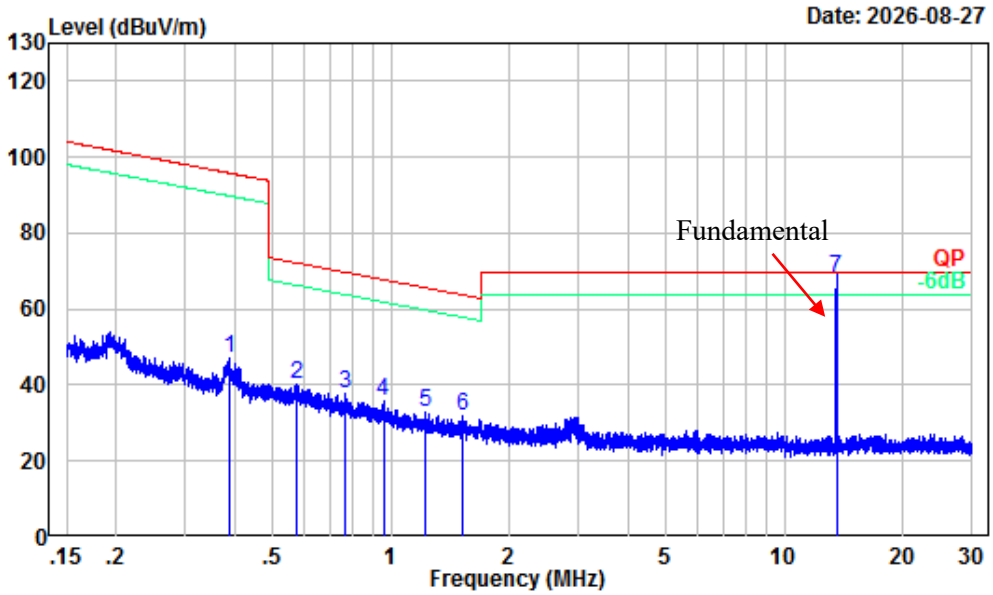
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : Parallel
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.012	31.95	26.97	58.92	126.13	-67.21	Peak
2	0.023	29.90	20.99	50.89	120.50	-69.61	Peak
3	0.037	27.81	21.55	49.36	116.34	-66.98	Peak
4	0.061	25.31	20.26	45.57	111.91	-66.34	Peak
5	0.095	22.36	21.85	44.21	108.07	-63.86	Peak
6	0.143	19.48	18.15	37.63	104.52	-66.89	Peak

150 kHz~30 MHz

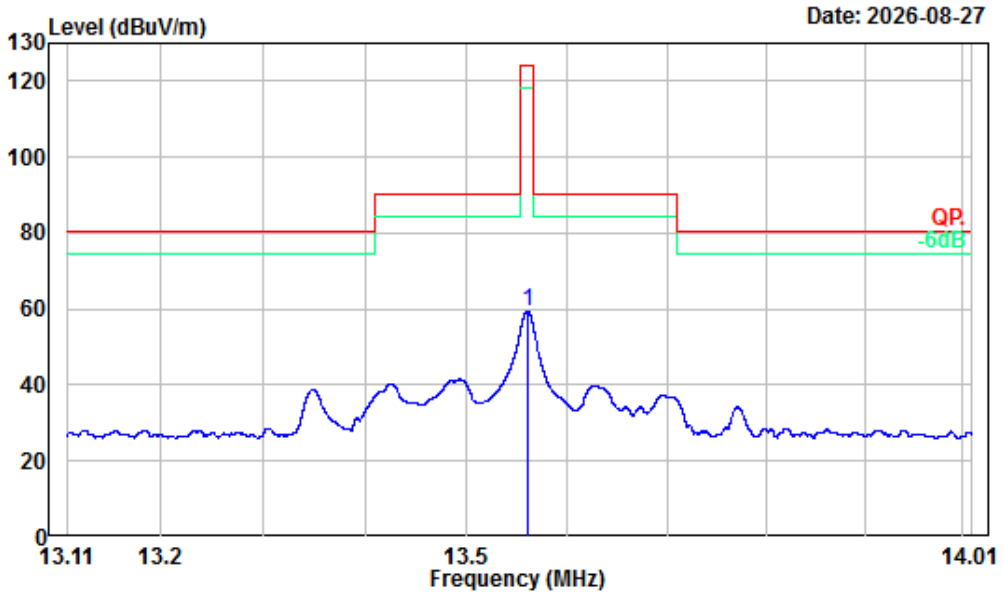


Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : Parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.389	8.51	38.64	47.15	95.80	-48.65	Peak
2	0.575	5.47	34.72	40.19	72.37	-32.18	Peak
3	0.768	3.10	34.86	37.96	69.82	-31.86	Peak
4	0.957	1.52	34.41	35.93	67.86	-31.93	Peak
5	1.228	0.56	32.18	32.74	65.65	-32.91	Peak
6	1.524	-0.27	32.35	32.08	63.73	-31.65	Peak
7	13.560	-2.72	70.80	68.08	69.54	-1.46	QP

2) Emission Mask & Fundamental:

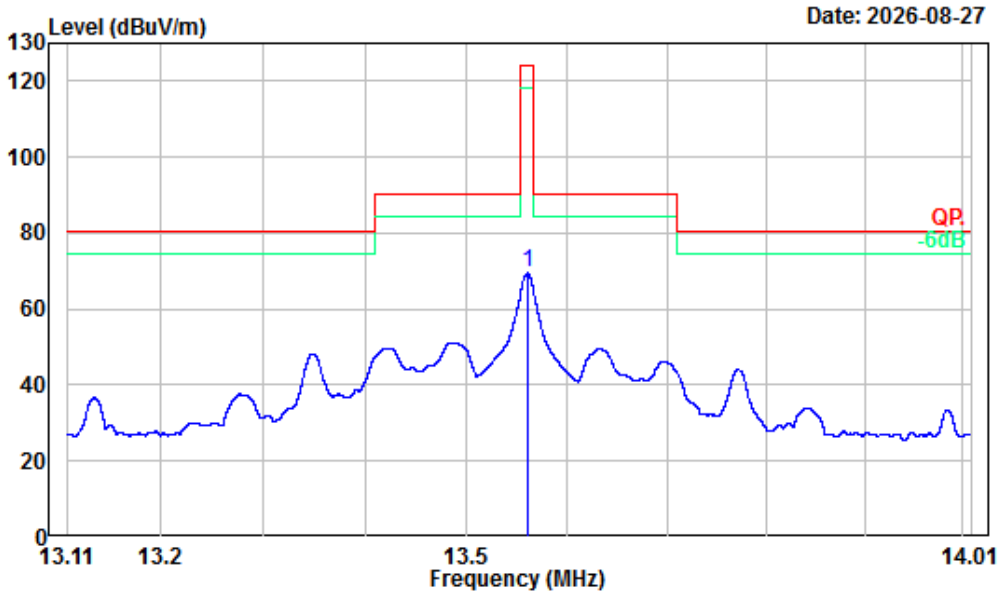
Ground-parallel



Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : Ground-parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	13.560	-2.72	62.32	59.60	124.00	-64.40	Peak

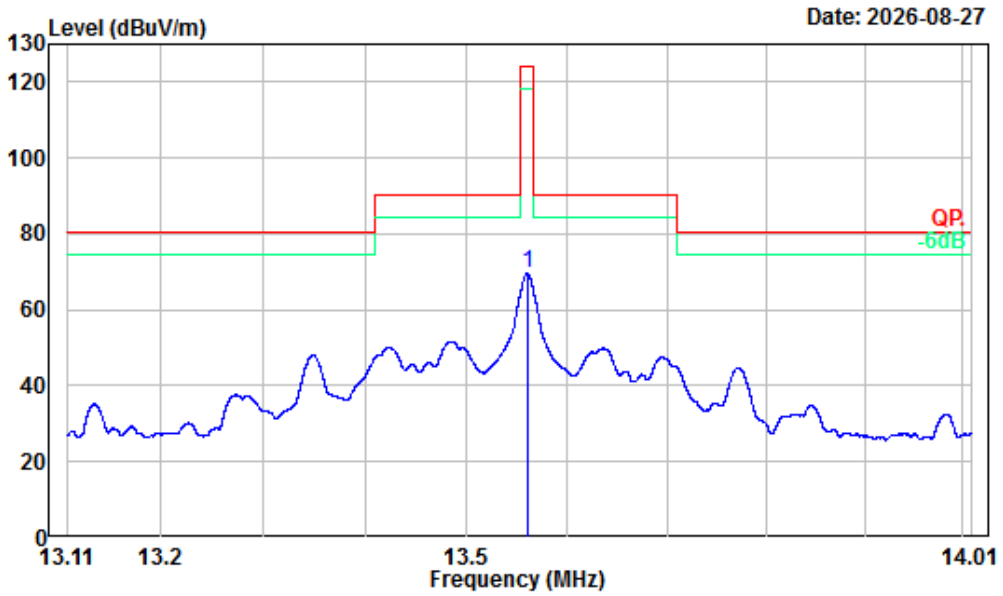
Perpendicular



Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : Perpendicular
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	13.560	-2.72	72.15	69.43	124.00	-54.57	Peak

Parallel

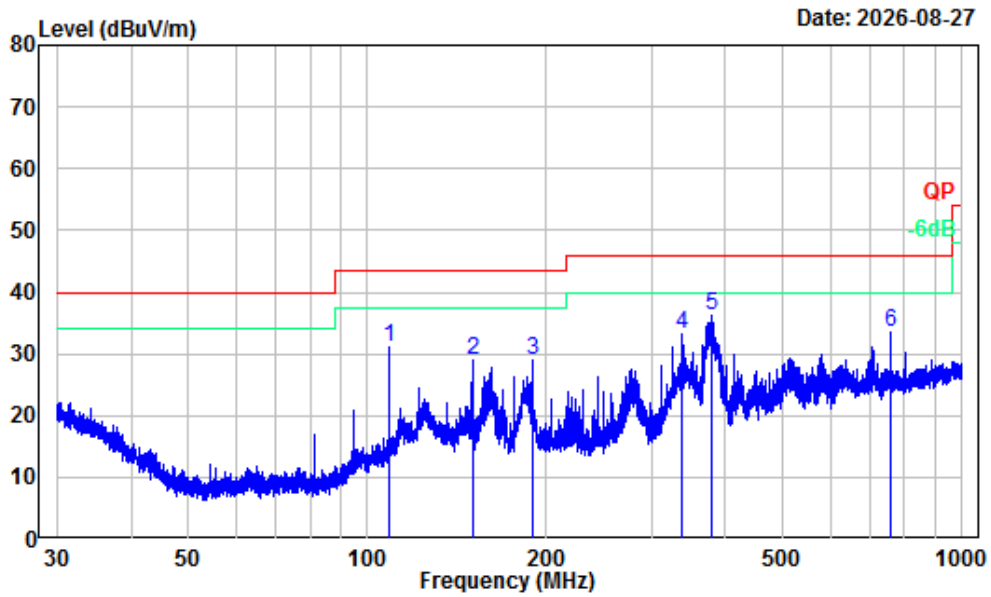


Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : Parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	13.560	-2.72	72.21	69.49	124.00	-54.51	Peak

3) Spurious Emissions (30 MHz~1GHz):

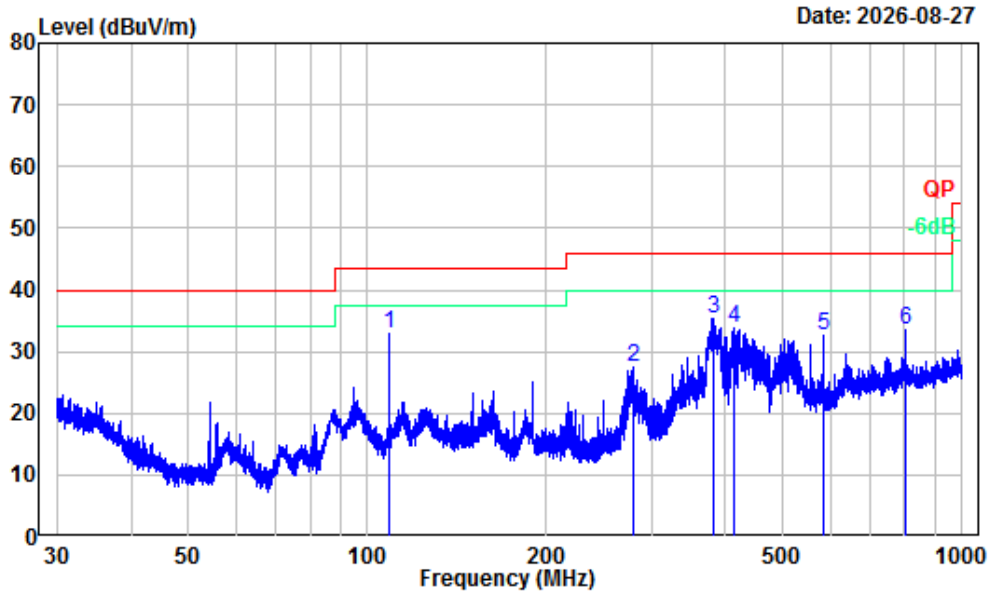
Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 120/500kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	108.50	-13.37	44.43	31.06	43.50	-12.44	Peak
2	150.01	-11.99	40.87	28.88	43.50	-14.62	Peak
3	189.82	-13.72	42.79	29.07	43.50	-14.43	Peak
4	338.99	-10.42	43.51	33.09	46.00	-12.91	Peak
5	378.09	-8.83	45.11	36.28	46.00	-9.72	Peak
6	760.37	-2.55	36.12	33.57	46.00	-12.43	Peak

Vertical



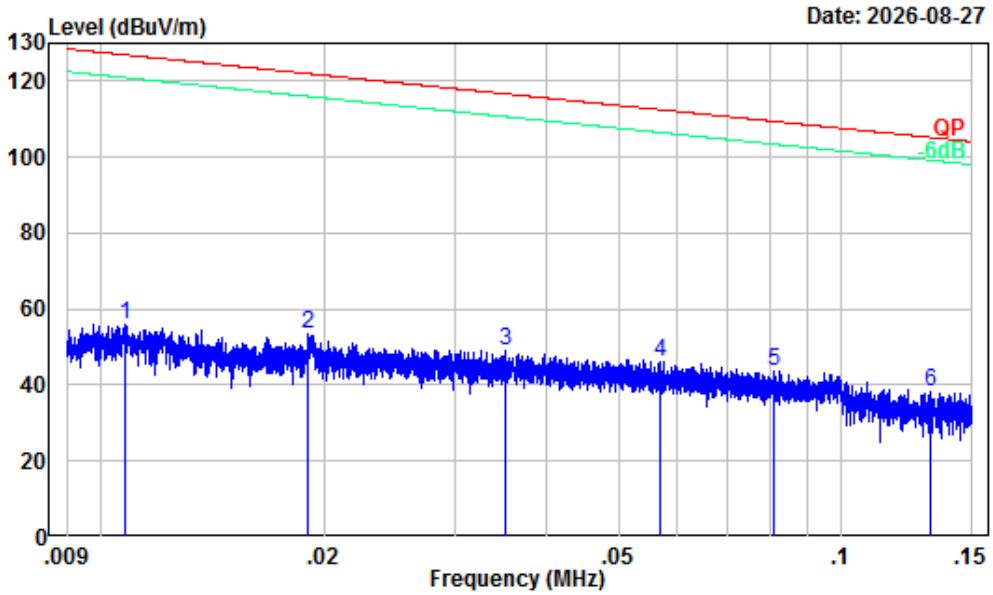
Site : Chamber A
Condition : 3m Vertical
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 120/500kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	108.46	-13.41	46.28	32.87	43.50	-10.63	Peak
2	280.64	-10.95	38.33	27.38	46.00	-18.62	Peak
3	382.92	-8.86	44.30	35.44	46.00	-10.56	Peak
4	412.37	-7.72	41.42	33.70	46.00	-12.30	Peak
5	583.25	-4.97	37.63	32.66	46.00	-13.34	Peak
6	801.43	-2.20	35.66	33.46	46.00	-12.54	Peak

ANT4

Ground-parallel

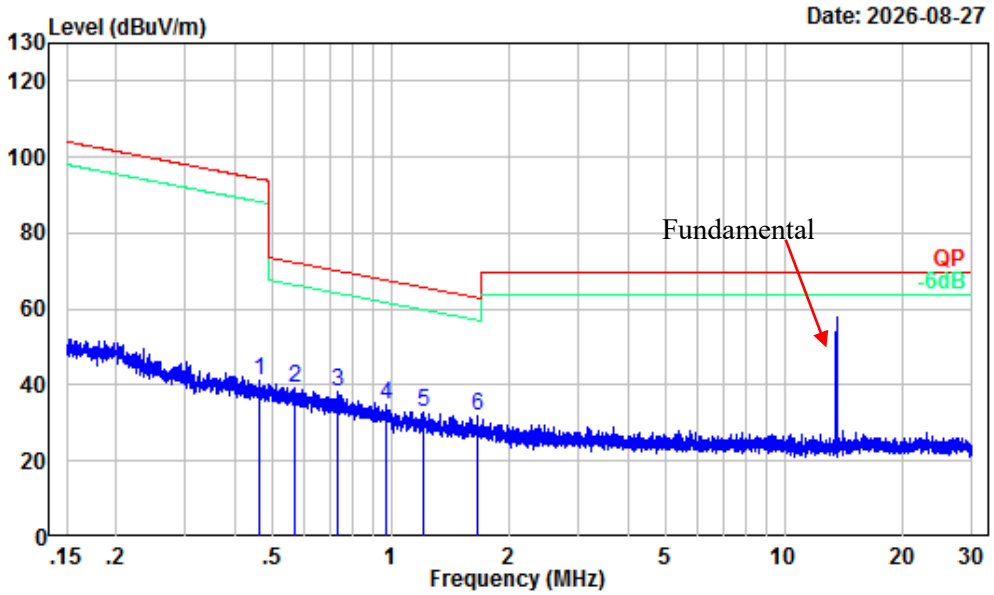
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : Ground-parallel
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.011	32.14	23.71	55.85	126.92	-71.07	Peak
2	0.019	30.59	23.01	53.60	122.03	-68.43	Peak
3	0.035	27.95	21.26	49.21	116.67	-67.46	Peak
4	0.057	25.72	20.31	46.03	112.52	-66.49	Peak
5	0.081	23.32	20.52	43.84	109.42	-65.58	Peak
6	0.132	20.12	18.04	38.16	105.20	-67.04	Peak

150 kHz~30 MHz

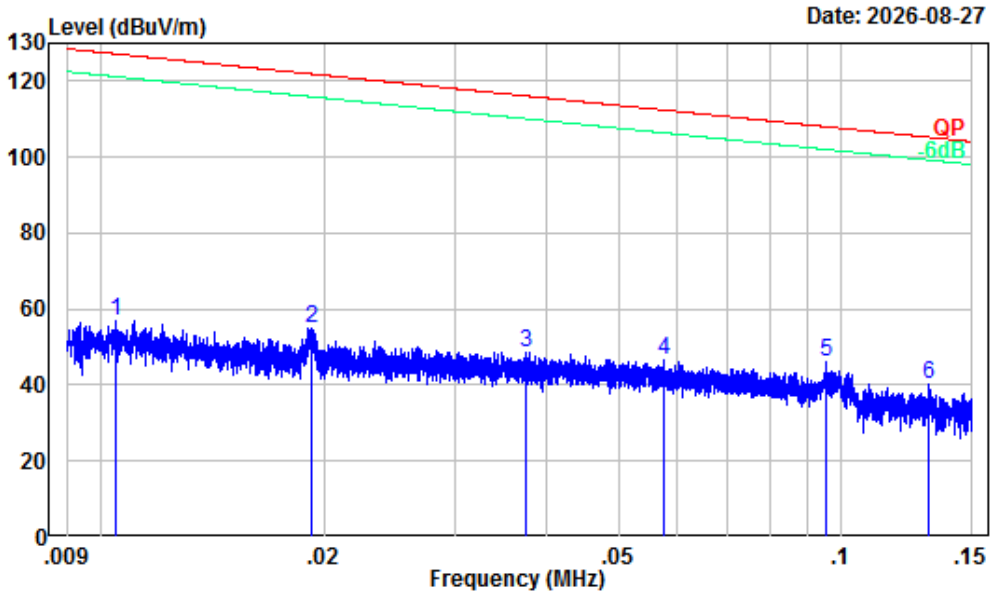


Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : Ground-parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.464	7.08	34.01	41.09	94.27	-53.18	Peak
2	0.568	5.56	33.79	39.35	72.49	-33.14	Peak
3	0.733	3.52	34.78	38.30	70.22	-31.92	Peak
4	0.976	1.38	33.22	34.60	67.69	-33.09	Peak
5	1.211	0.61	32.40	33.01	65.77	-32.76	Peak
6	1.665	-0.66	32.56	31.90	62.95	-31.05	Peak

Perpendicular

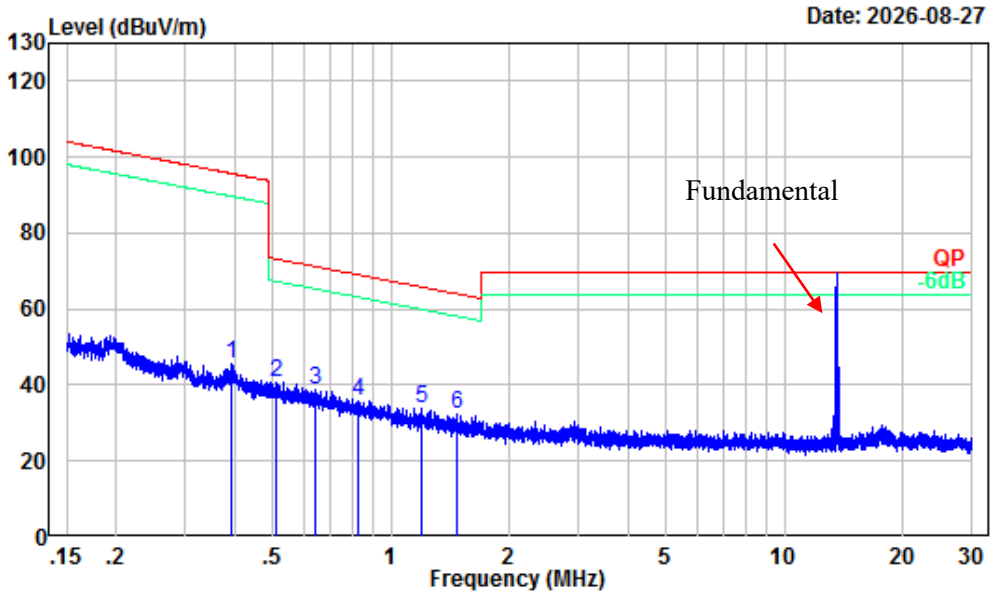
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : Perpendicular
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.010	32.21	24.78	56.99	127.19	-70.20	Peak
2	0.019	30.54	24.58	55.12	121.91	-66.79	Peak
3	0.037	27.72	20.96	48.68	116.13	-67.45	Peak
4	0.058	25.65	20.74	46.39	112.41	-66.02	Peak
5	0.095	22.33	23.79	46.12	108.03	-61.91	Peak
6	0.131	20.15	19.99	40.14	105.24	-65.10	Peak

150 kHz~30 MHz

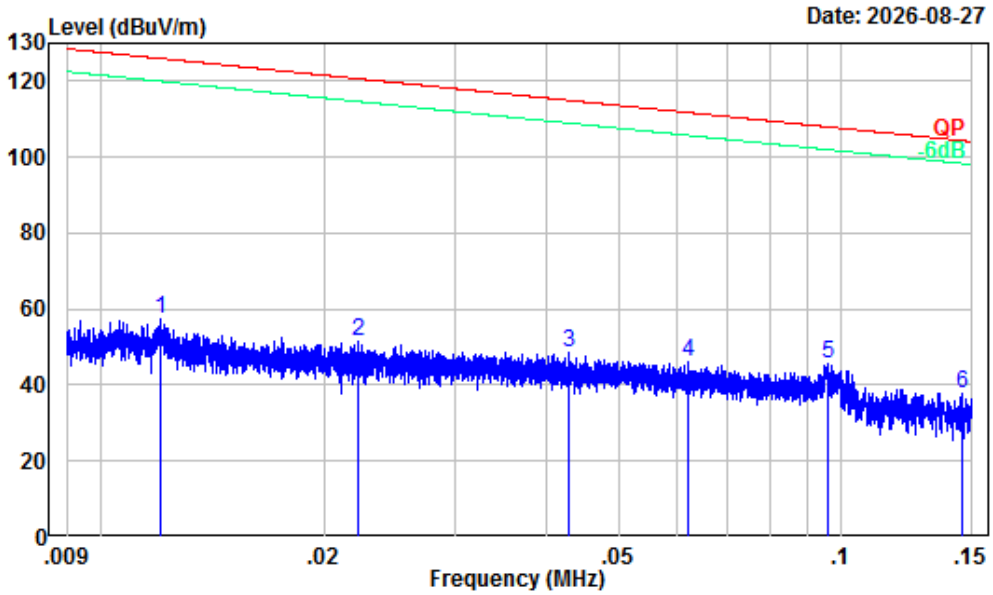


Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : Perpendicular
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.392	8.45	37.16	45.61	95.74	-50.13	Peak
2	0.510	6.27	34.64	40.91	73.44	-32.53	Peak
3	0.644	4.62	34.00	38.62	71.38	-32.76	Peak
4	0.826	2.50	33.44	35.94	69.17	-33.23	Peak
5	1.192	0.66	33.34	34.00	65.91	-31.91	Peak
6	1.470	-0.12	32.57	32.45	64.06	-31.61	Peak

Parallel

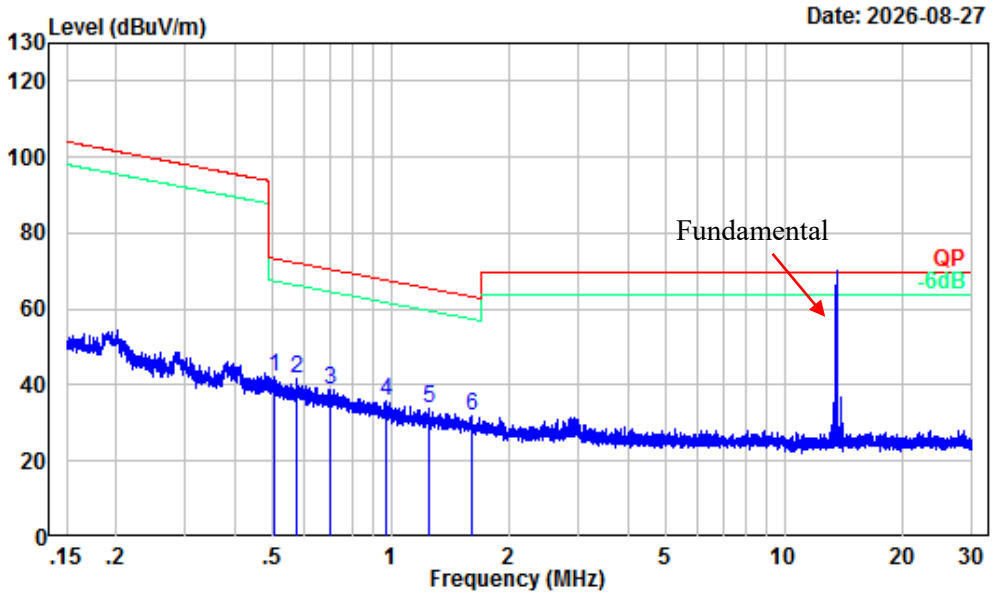
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : Parallel
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.012	31.92	25.58	57.50	126.01	-68.51	Peak
2	0.022	29.97	21.43	51.40	120.65	-69.25	Peak
3	0.043	27.14	21.48	48.62	114.95	-66.33	Peak
4	0.062	25.19	21.01	46.20	111.74	-65.54	Peak
5	0.096	22.30	23.51	45.81	107.99	-62.18	Peak
6	0.145	19.33	18.68	38.01	104.36	-66.35	Peak

150 kHz~30 MHz

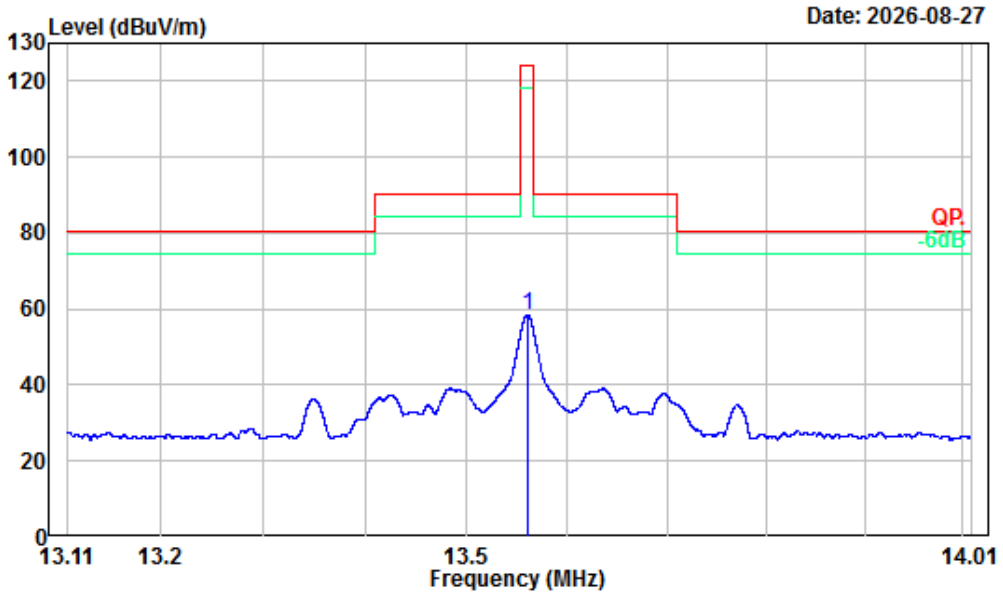


Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : Parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.505	6.33	35.76	42.09	73.53	-31.44	Peak
2	0.577	5.45	36.18	41.63	72.35	-30.72	Peak
3	0.698	3.96	34.93	38.89	70.67	-31.78	Peak
4	0.969	1.43	34.17	35.60	67.75	-32.15	Peak
5	1.249	0.50	33.45	33.95	65.50	-31.55	Peak
6	1.608	-0.50	32.33	31.83	63.26	-31.43	Peak

2) Emission Mask & Fundamental:

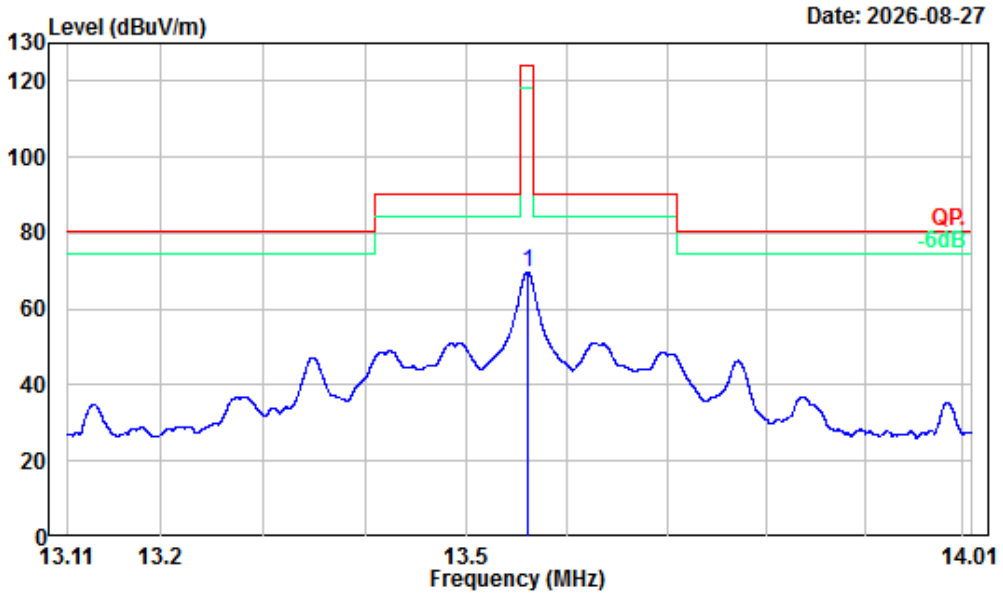
Ground-parallel



Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : Ground-parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	13.560	-2.72	61.31	58.59	124.00	-65.41	Peak

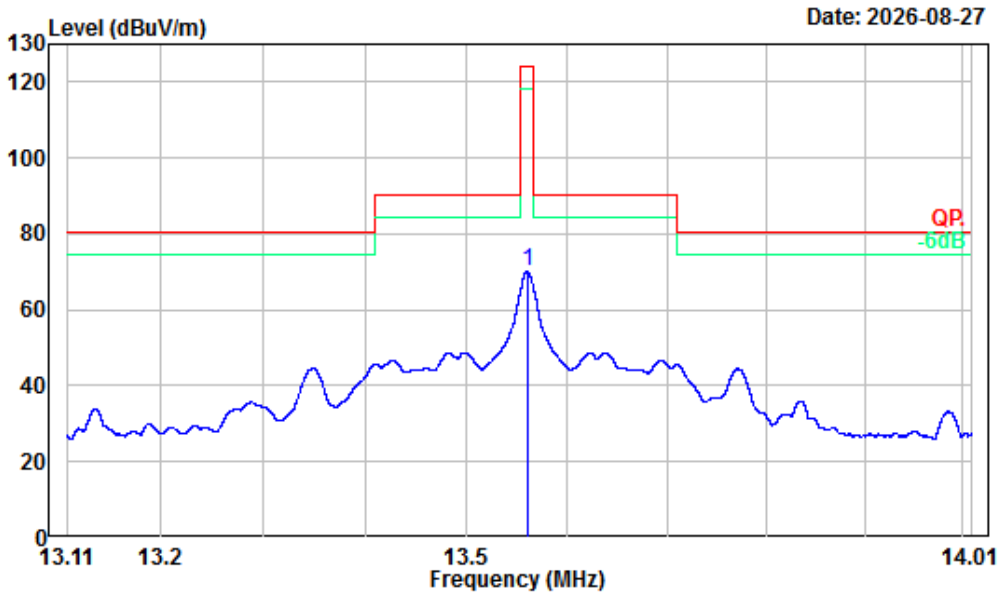
Perpendicular



Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : Perpendicular
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	13.560	-2.72	72.54	69.82	124.00	-54.18	Peak

Parallel

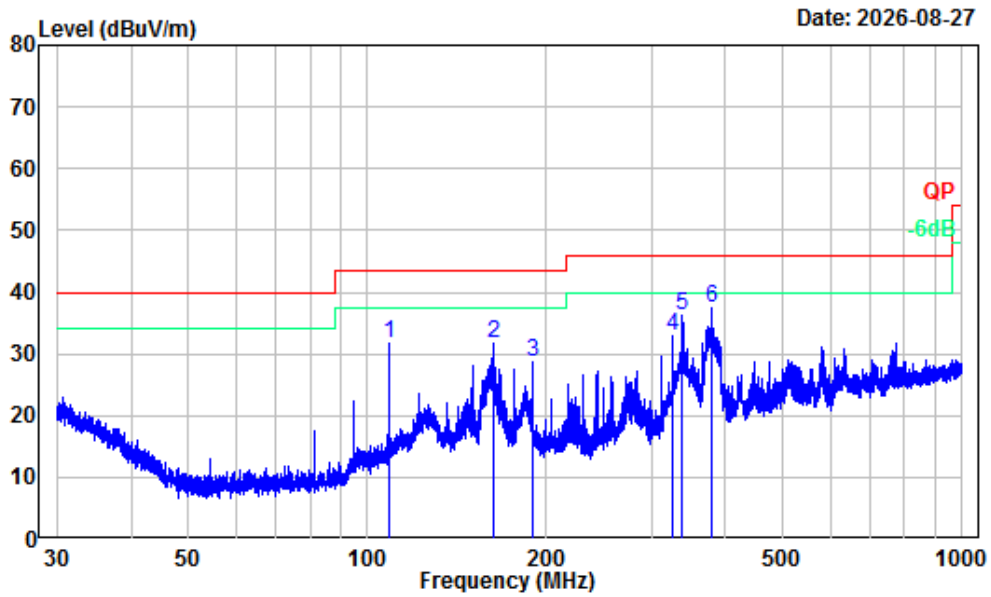


Site : Chamber A
Condition : 3m
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Note : Parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	13.560	-2.72	72.77	70.05	124.00	-53.95	Peak

3) Spurious Emissions (30 MHz~1GHz):

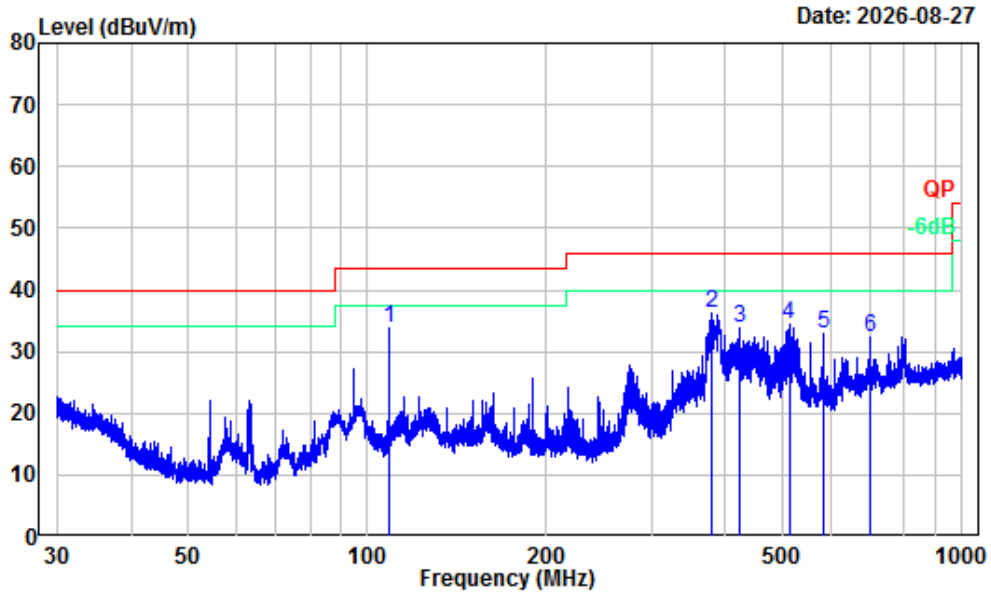
Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 120/500kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	108.50	-13.37	45.13	31.76	43.50	-11.74	Peak
2	162.40	-12.33	43.92	31.59	43.50	-11.91	Peak
3	189.82	-13.72	42.48	28.76	43.50	-14.74	Peak
4	325.45	-10.12	43.05	32.93	46.00	-13.07	Peak
5	338.99	-10.42	46.54	36.12	46.00	-9.88	Peak
6	379.75	-8.85	46.14	37.29	46.00	-8.71	Peak

Vertical



Site : Chamber A
Condition : 3m Vertical
Project Number : 2601U16169E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 120/500kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	108.46	-13.41	47.32	33.91	43.50	-9.59	Peak
2	379.75	-8.85	45.23	36.38	46.00	-9.62	Peak
3	422.98	-7.45	41.14	33.69	46.00	-12.31	Peak
4	511.84	-5.87	40.37	34.50	46.00	-11.50	Peak
5	583.25	-4.97	37.86	32.89	46.00	-13.11	Peak
6	698.69	-3.36	35.70	32.34	46.00	-13.66	Peak

FCC§15.225(e)& RSS-210 §B.6 (b) - FREQUENCY STABILITY

Applicable Standard

According to FCC§15.225(e), The frequency tolerance of the carrier signal shall be maintained within ±0.01% of the operating frequency over a temperature variation of −20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

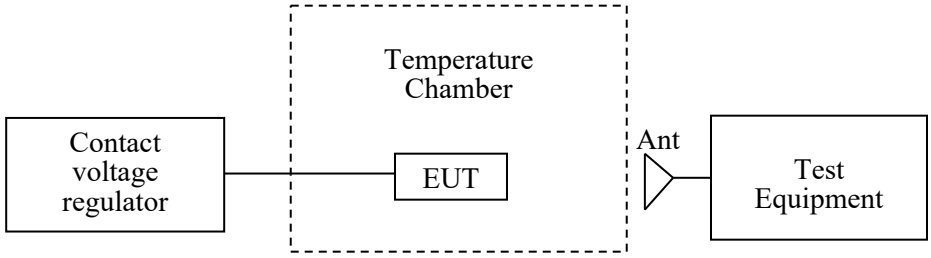
According to RSS-210, Issue 10 §B.6(b), The carrier frequency stability shall not exceed ±100 ppm.

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external AC power supply and inductive antenna was connected to a Spectrum Analyzer. The EUT was placed inside the temperature chamber.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the Spectrum Analyzer.

Frequency Stability vs. Voltage: An external AC power supply Source. The voltage was set to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the end point. The output frequency was recorded for each voltage.



Test Data

Environmental Conditions

Temperature:	24.5 ℃
Relative Humidity:	51 %
ATM Pressure:	99.7 kPa

The testing was performed by Alex Yan on 2026-08-27.

Test Mode: Transmitting

Test Result: Pass

Note: Only the worst case "AC 120 V/60 Hz" were recorded in the report.

ANT1

Test Item	Temperature (℃)	Voltage (V_{AC})	Measured frequency (MHz)	Frequency Error (%)	Limit (%)
Frequency Stability vs. Temperature	-20	120	13.56013	0.0010	±0.01
	-10	120	13.56019	0.0014	±0.01
	0	120	13.56025	0.0018	±0.01
	10	120	13.56031	0.0023	±0.01
	20	120	13.56033	0.0024	±0.01
	30	120	13.56042	0.0031	±0.01
	40	120	13.56056	0.0041	±0.01
	50	120	13.56061	0.0045	±0.01
Frequency Stability vs. Voltage	20	102	13.56052	0.0038	±0.01
	20	138	13.56054	0.0040	±0.01

ANT2

Test Item	Temperature (℃)	Voltage (V_{AC})	Measured frequency (MHz)	Frequency Error (%)	Limit (%)
Frequency Stability vs. Temperature	-20	120	13.56121	0.0089	±0.01
	-10	120	13.56118	0.0087	±0.01
	0	120	13.56103	0.0076	±0.01
	10	120	13.56124	0.0091	±0.01
	20	120	13.56121	0.0089	±0.01
	30	120	13.56111	0.0082	±0.01
	40	120	13.56109	0.0080	±0.01
	50	120	13.56114	0.0084	±0.01
Frequency Stability vs. Voltage	20	102	13.56102	0.0075	±0.01
	20	138	13.56038	0.0028	±0.01

ANT3

Test Item	Temperature (℃)	Voltage (V_{AC})	Measured frequency (MHz)	Frequency Error (%)	Limit (%)
Frequency Stability vs. Temperature	-20	120	13.56104	0.0077	±0.01
	-10	120	13.56121	0.0089	±0.01
	0	120	13.56119	0.0088	±0.01
	10	120	13.56122	0.0090	±0.01
	20	120	13.56115	0.0085	±0.01
	30	120	13.56113	0.0083	±0.01
	40	120	13.56105	0.0077	±0.01
	50	120	13.56112	0.0083	±0.01
Frequency Stability vs. Voltage	20	102	13.56106	0.0078	±0.01
	20	138	13.56131	0.0097	±0.01

ANT4

Test Item	Temperature (℃)	Voltage (V_{AC})	Measured frequency (MHz)	Frequency Error (%)	Limit (%)
Frequency Stability vs. Temperature	-20	120	13.56112	0.0083	±0.01
	-10	120	13.56123	0.0091	±0.01
	0	120	13.56108	0.0080	±0.01
	10	120	13.56116	0.0086	±0.01
	20	120	13.56125	0.0092	±0.01
	30	120	13.56133	0.0098	±0.01
	40	120	13.56109	0.0080	±0.01
	50	120	13.56119	0.0088	±0.01
Frequency Stability vs. Voltage	20	102	13.56124	0.0091	±0.01
	20	138	13.56103	0.0076	±0.01

Note: the extreme voltage was declared by the applicant.

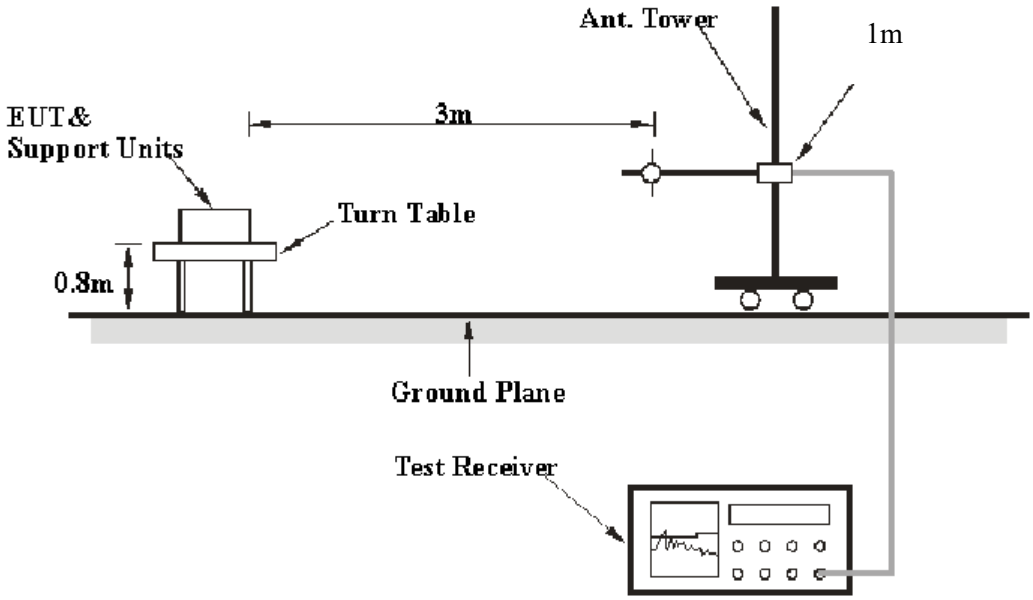
FCC§15.215(c) - 20dB EMISSION BANDWIDTH

Requirement

Per 15.215 (c) 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. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

Test Procedure

Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.



Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	55 %
ATM Pressure:	99.7 kPa

The testing was performed by Alex Yan on 2026-09-17.

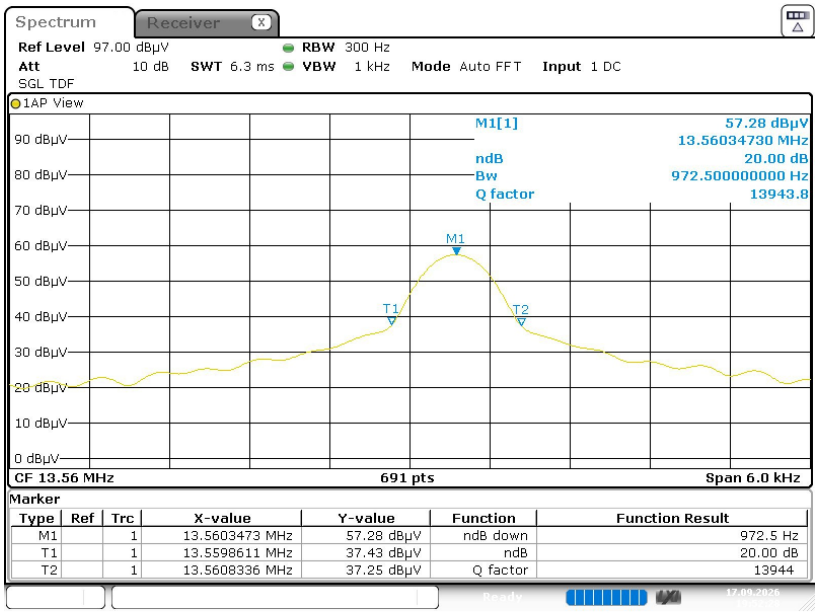
Test Mode: Transmitting

Test Result: Pass

Antenna	Test Frequency (MHz)	20dB Bandwidth (kHz)
ANT1	13.56	0.973
ANT2	13.56	0.938
ANT3	13.56	1.007
ANT4	13.56	0.955

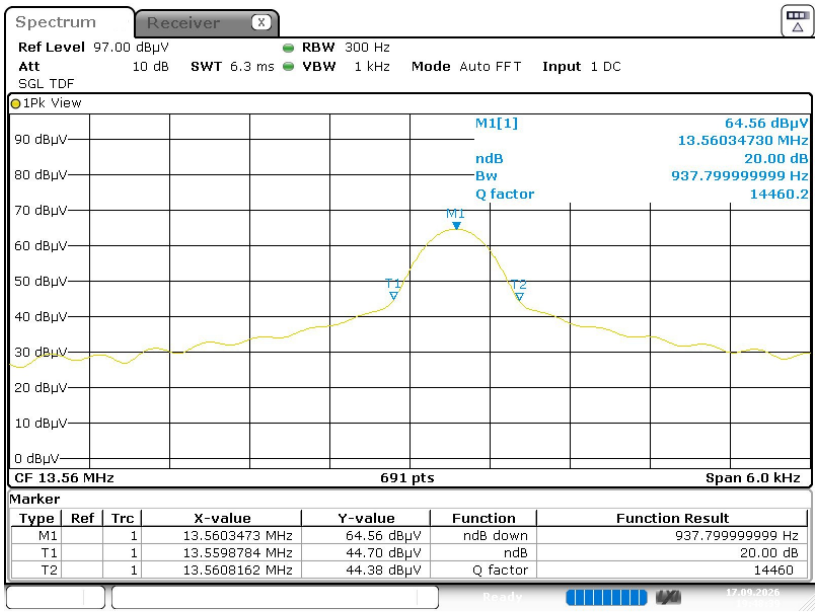
20 dB Emission Bandwidth

ANT1



ProjectNo.:2601U16169E-RF Tester:Alex Yan
Date: 17.SEP.2026 19:52:28

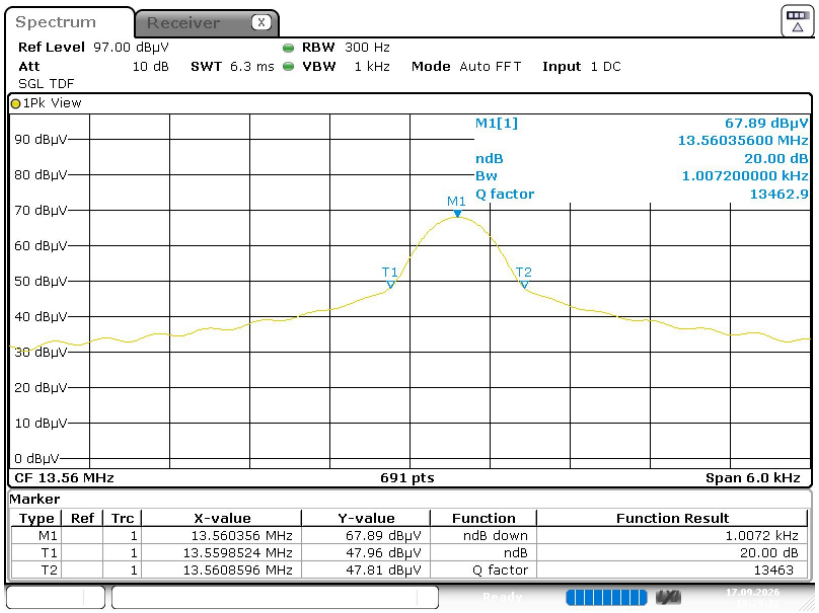
ANT2



ProjectNo.:2601U16169E-RF Tester:Alex Yan

Date: 17.SEP.2026 19:48:39

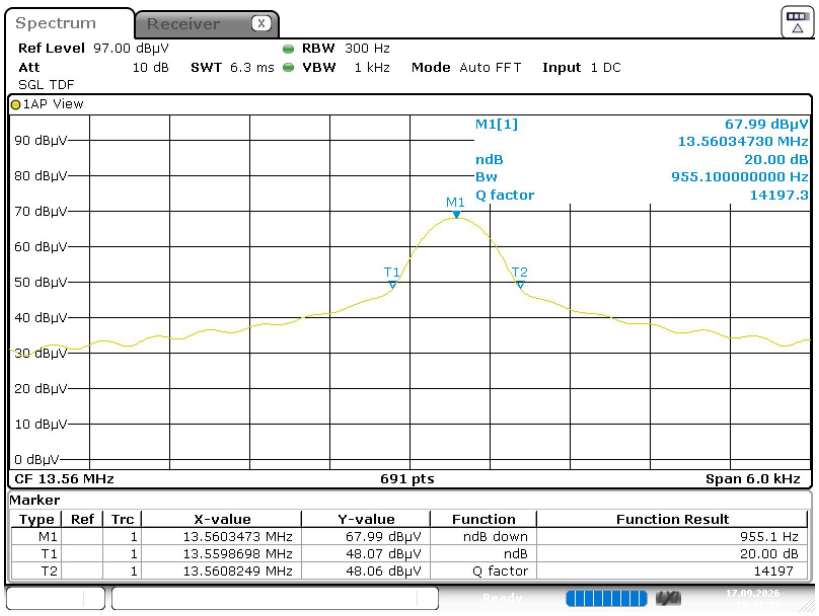
ANT3



ProjectNo.:2601U16169E-RF Tester:Alex Yan

Date: 17.SEP.2026 19:29:22

ANT4



ProjectNo.:2601U16169E-RF Tester:Alex Yan

Date: 17.SEP.2026 19:41:35

RSS-GEN CLAUSE 6.7 - 99% OCCUPIED BANDWIDTH

Applicable Standard

According to RSS-Gen §6.7

The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.
In some cases, the "x dB bandwidth" is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum in-band power level of the modulated signal, where the two points are on the outskirts of the in-band emission.
The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth:
The Microphone shall be operated at its maximum carrier power measured under normal test conditions.
The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
The detector of the spectrum analyzer shall be set to "Sample". However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or "Max Hold") may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.
The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.
For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth)

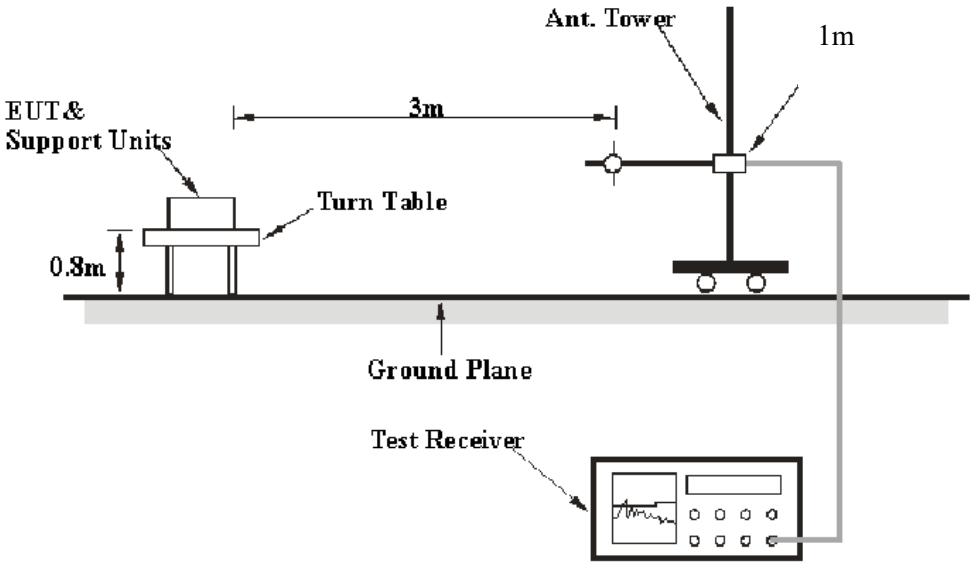
Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.

3. Use 99% OBW test function to test the 99% OBW bandwidth.

4. Repeat above procedures until all frequencies measured were complete.



Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	55 %
ATM Pressure:	99.7 kPa

The testing was performed by Alex Yan on 2026-09-17.

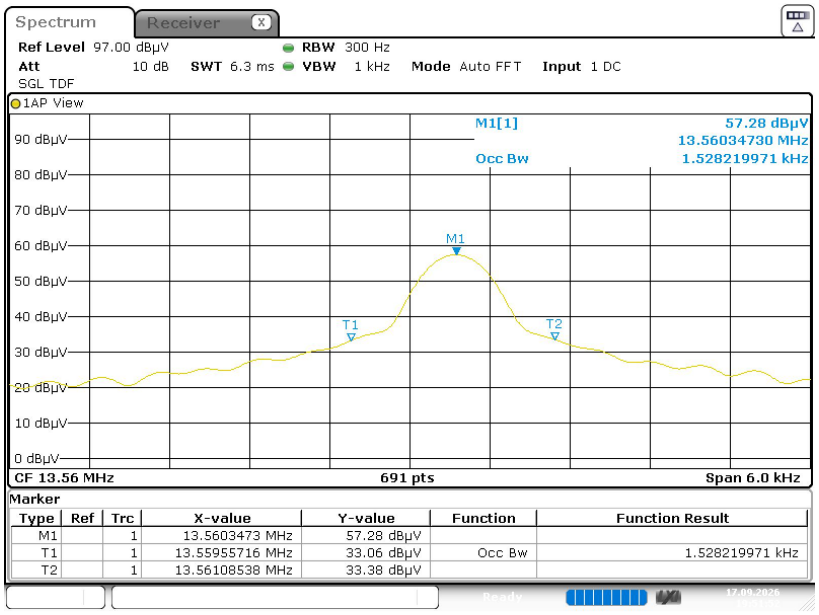
Test Mode: Transmitting

Test Result: Pass

Antenna	Test Frequency (MHz)	OBW (kHz)
ANT1	13.56	1.528
ANT2	13.56	1.381
ANT3	13.56	1.658
ANT4	13.56	1.485

Occupied Bandwidth

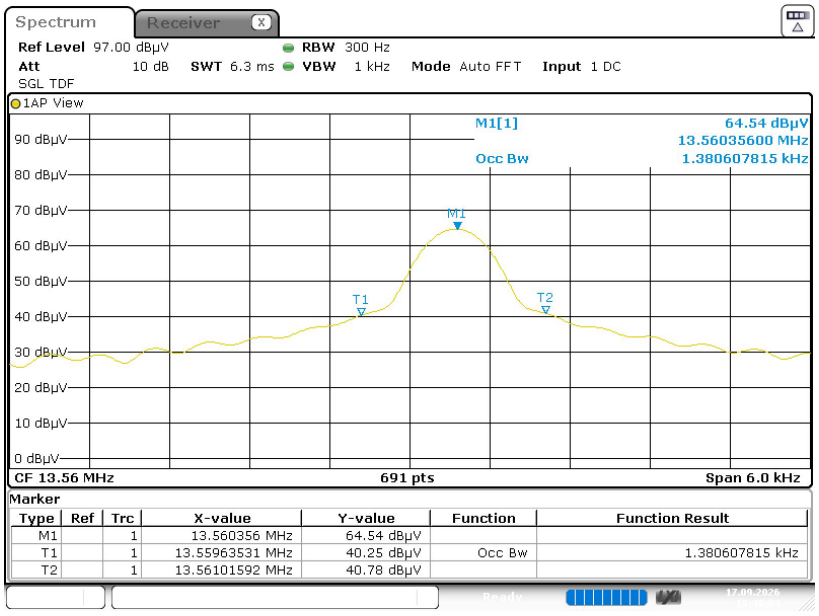
ANT1



ProjectNo.:2601U16169E-RF Tester:Alex Yan

Date: 17.SEP.2026 19:51:52

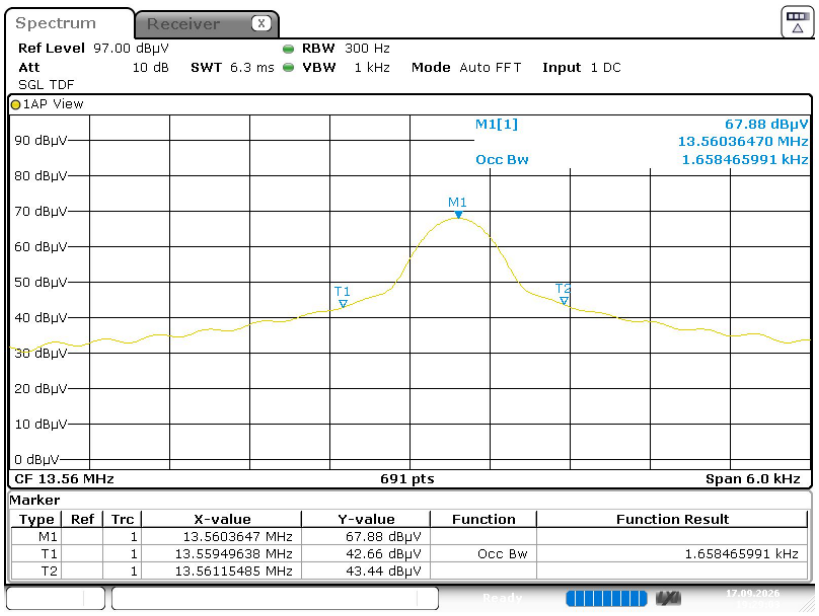
ANT2



ProjectNo.:2601U16169E-RF Tester:Alex Yan

Date: 17.SEP.2026 19:48:04

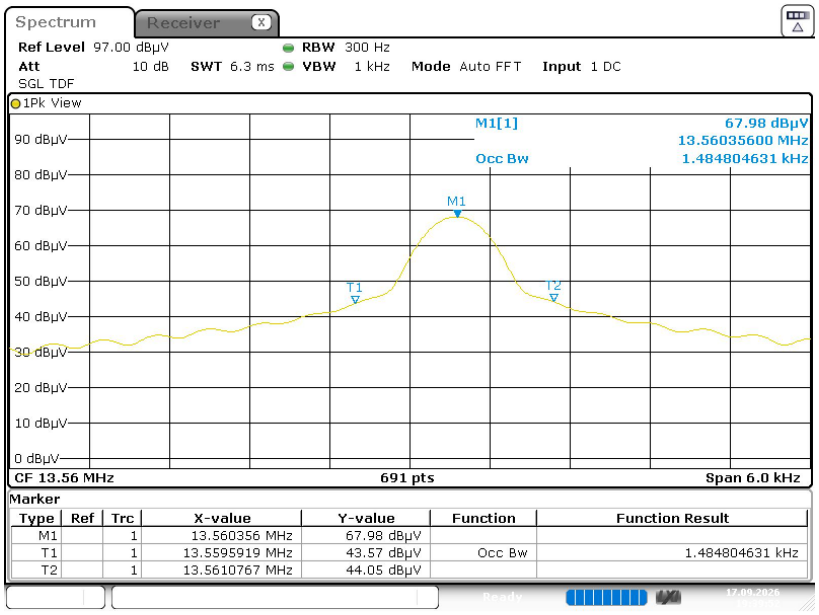
ANT3



ProjectNo.:2601U16169E-RF Tester:Alex Yan

Date: 17.SEP.2026 19:29:03

ANT4



ProjectNo.:2601U16169E-RF Tester:Alex Yan

Date: 17.SEP.2026 19:39:52

EUT PHOTOGRAPHS

Please refer to the attachment 2601U16169E-RF-EXP External photo and 2601U16169E-RF-INP Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2601U16169E-RF-TSPB Test Setup photo.

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