

TEST REPORT

Report Number : 15881589-E1V2

Applicant : APPLE, INC.
1 APPLE PARK WAY
CUPERTINO, CA 95014, U.S.A.

Model : A3503

FCC ID : BCGA3503

IC : 579C-A3503

EUT Description : WIRELESS CHARGER

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C
ISED RSS-216 ISSUE 3
ISED RSS-GEN ISSUE 5 + A1 + A2

Date Of Issue:
2025/07/22

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REPORT REVISION HISTORY

Rev.		Issue Date		Revisions		Revised By
V1		2025/07/15		Initial Issue		John Allen Bautista
V2		2025/07/22		Updated section 9 ISED, updated page spacing		Tri Pham

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1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE, INC. 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A.		
Model	A3503		
Brand	APPLE		
EUT Description	Wireless Charger		
SERIAL NUMBER	FR7V1FY457		
SAMPLE RECEIPT DATE	2025/04/25		
DATE TESTED	MAY 23, 2025 TO JUNE 19, 2025		
Applicable Standards	FCC 47 CFR PART 15 SUBPART C ISED RSS-216 ISSUE 3 ISED RSS-GEN Issue 5 + A1 + A2		
Test Results	COMPLIES		
UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document.			
Approved & Released By:		Prepared By:	
			
Thu Chan Staff Engineer UL Verification Services Inc.		John Allen Bautista Laboratory Engineer UL Verification Services Inc.	

2. TEST SUMMARY

FCC Clause	ISED Clause	Requirement	Result	Comment
See Comment	RSS-GEN 6.7	99% OBW	Reporting purposes only	ANSI C63.10 Section 6.9.3
15.209 (a)	RSS-216 (5.3.3.1, 5.3.3.2), RSS-GEN (8.9, 8.10)	Radiated Emissions	Complies	None.
-	RSS-216 (5.5)	Frequency Stability	Complies	None.
15.207 (a)	RSS-216 (5.3.2)	AC Mains Conducted Emissions	Complies	None.

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with:

- *ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
- ANSI C63.30-2021
- FCC 47 CFR Part 2
- FCC 47 CFR Part 15 Subpart C
- KDB 414788 D01 Radiated Test Site
- RSS-GEN Issue 5 + A1 + A2
- RSS-216 Issue 3

*Note: The use of ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 does not deviate from the testing procedures of ANSI C63.10-2020.

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☐	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
☒	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
☐	Building 3: 843 Auburn Court, Fremont, CA 94538 USA			
☒	Building 4: 47658 Kato Rd, Fremont, CA 94538 USA			
☐	Building 5: 47670 Kato Rd, Fremont, CA 94538 USA			

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement).

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U _{Lab}
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	2.75%
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz (E-field)	2.84 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz (H-field)	2.87 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Time Domain Measurements	3.39%
Temperature	0.57°C
Relative Humidity	3.39%

Uncertainty figures are valid to a confidence level of 95%.

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

The EUT is a magnetic charger which inductively charge other wireless charging devices. The charging function operates at 127.7kHz and 360kHz. The charger supports passive NFC tag operation

6.2. MAXIMUM E-FIELD and H-FIELD

The transmitter has maximum peak radiated electric and magnetic field strength as follows:

Fundamental Frequency (kHz)	Mode	E-field (300m distance) FCC (dBμV/m)	H-field (3m distance) IC (dBμA/m)
127.7	Operating	-21.99	10.94
360		-17.22	14.42
--	Standby	-60.77	-31.29

6.3. WORST-CASE CONFIGURATION AND MODE

The EUT was investigated at its natural orientation on a plastic fixture with a Load set at the center and at its natural orientation on a plastic fixture with a Load set at max offset from center. It was determined that the worst case configuration was EUT at its natural orientation on a plastic fixture with a Load set at max offset from center of EUT.

The EUT was tested on standby and operation modes. During operational mode, EUT was tested with Load. The EUT was tested with the following configurations:

CONFIGURATION	MODE	DESCRIPTION
1	Standby	EUT powered by AC/DC adapter via USB-C Connector
2	Operating (LOAD #1) • EUT w/ 127.7 kHz Fundamental	EUT powered by AC/DC Adapter via USB-C connector with a Load at charging mode
3	Operating (LOAD #2) • EUT w/ 360 kHz Fundamental	EUT powered by AC/DC Adapter via USB-C connector with a Load at charging mode

For below 30MHz & 1GHz tests, the EUT was connected to AC power adapter as the worst case. For AC line conducted emission, test was investigated with AC power adapter.

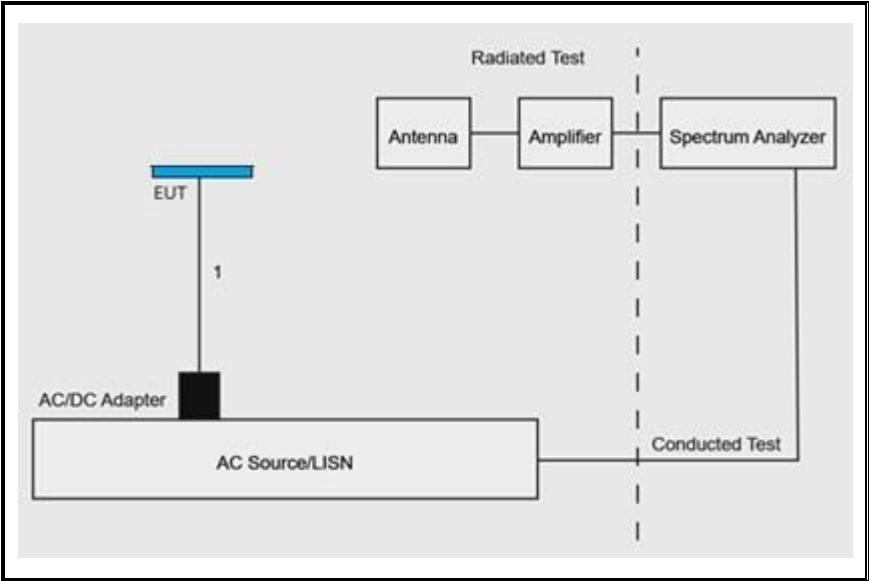
For below 30MHz testing, investigation was done on three antenna orientations: RX antenna Face-On, Face-Off and Horizontal (parallel to ground). The measurement distance is set at 3m from Antenna to Equipment under test for both FCC part 15 and ISSED RSS-216. The worst-case configurations were determined on RX antenna Face-On and Face-Off; therefore, all final tests were performed using these two orientations.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 300 m open area test site. Therefore, sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788 D01.

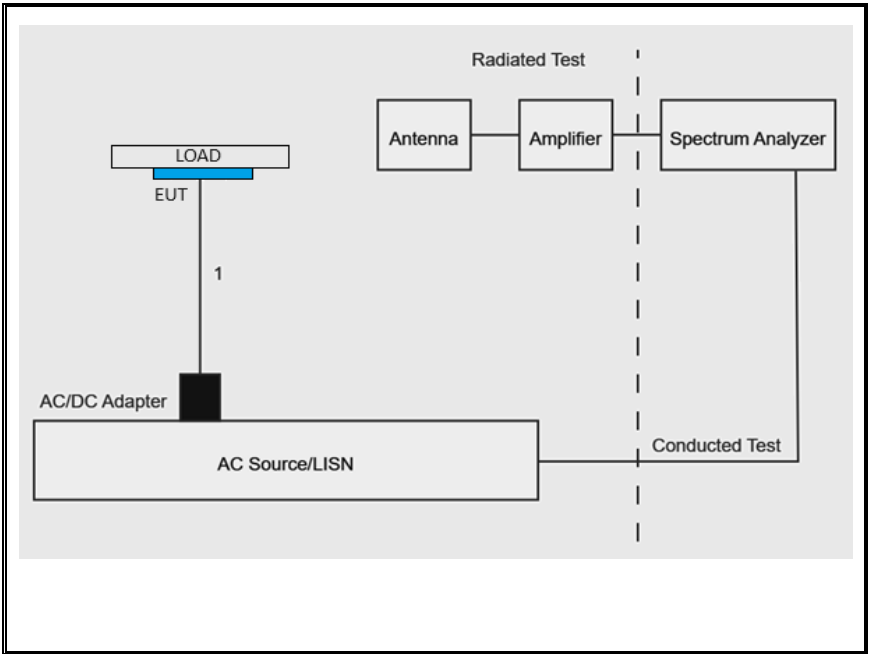
6.4. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT & PERIPHERALS LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
AC/DC adapter	Apple	N/A	C4H95140856L4YQAN	N/A
Load #1	Apple	N/A	Y96KLV7MXR	N/A
Load #2	Apple	N/A	PXKVXWV24P	N/A

STANDBY MODE SETUP



OPERATING MODE SETUP



7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment were utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	ID Num	Cal Due
Antenna, Passive Loop 30Hz to 1MHz	Electro-Metrics	EM-6871	170013	2025/09/30
Antenna, Passive Loop 100KHz to 30MHz	Electro-Metrics	EM-6872	170015	2025/09/30
Amplifier, 9kHz to 1GHz, 32dB	Sonoma Instrument	310N	222362	2026/06/30
Antenna, Broadband Hybrid, 30MHz to 2000MHz w/4dB	Sunol Sciences Corp.	JB3	173997	2026/03/31
Sniffer Probes	Electro Metrics	EM-6992	N/A	N/A
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A-544	85213	2026/01/31

AC Line Conducted				
Description	Manufacturer	Model	ID Num	Cal Due
EMI TEST RECEIVER 9kHz - 3.6GHz	Rohde & Schwarz	ESR	171646	2026-02-28
LISN for Conducted Emissions	Fischer Custom Communications, Inc	FCC-LISN-50/250-25-2-01-480V	175765	2026-01-31
Transient Limiter	TE	TBFL1	207996	2025-09-30
UL AUTOMATION SOFTWARE				
Radiated Software	UL	UL EMC	Ver 9.5, 21 May 2024	
Conducted Software	UL	UL EMC	2024.2.23	
AC Line Conducted Software	UL	UL EMC	Ver 9.5, 03 Mar 2023	

8. OCCUPIED BANDWIDTH

TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The RBW is set to 300Hz. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

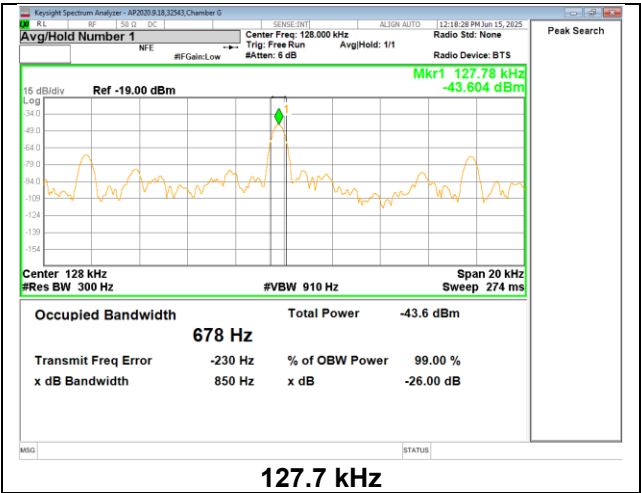
Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

RESULTS

Configuration 1: Charger with Load #1 in operating mode, transmitting at 127.7 kHz

Configuration 2: Charger with Load #2 in operating mode, transmitting at 360 kHz

CONFIGURATION 1



CONFIGURATION 2



9. RADIATED EMISSION TEST RESULTS

LIMIT

FCC §15.209 (a)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (m)
0.009–0.490	2400/F(kHz)	300
0.490–1.705	24000/F(kHz)	30
1.705–30.0	30	30
30–88	100	3
88 to 216	150	3
216 to 960	200	3
Above 960 MHz	500	3
Note: The lower limit shall apply at the transition frequency.		

ISED RSS-216 Section 5.3.3.1 and 5.3.3.2 and ISED RSS-GEN Sections 8.9 and 8.10.

ISED RSS-216 Table 3 and Table 5

Table 3: Magnetic field strength limits at 3 m distance (9 kHz to 30 MHz)	
Frequency (MHz)	Quasi-peak (dBμA/m)
0.009 – 0.07	69
0.07 – 0.15	69 to 39 *
0.15 – 30	39 to 7 *
* In the 0.07 MHz to 0.15 MHz and 0.15 MHz to 30 MHz frequency ranges the limit level in dBμA/m decreases linearly with the logarithm of frequency.	

Table 5: Electric field strength limits at 10 m distance (30 MHz to 1000 MHz)	
Frequency range (MHz)	Quasi-peak (dBμV/m)
30 – 230	30
230 – 1000	37
Note: The more stringent limit applies at the transition frequency.	

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 30MHz, the resolution bandwidth 9kHz to 150kHz is set to 300Hz, video bandwidth is set to 1kHz. 150kHz to 30MHz, the resolution bandwidth is set to 10kHz, video bandwidth is set to 30kHz.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only. Blue color trace on plots: Parallel orientation (face on). Green color trace on plots: Perpendicular orientation (face off).

KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification

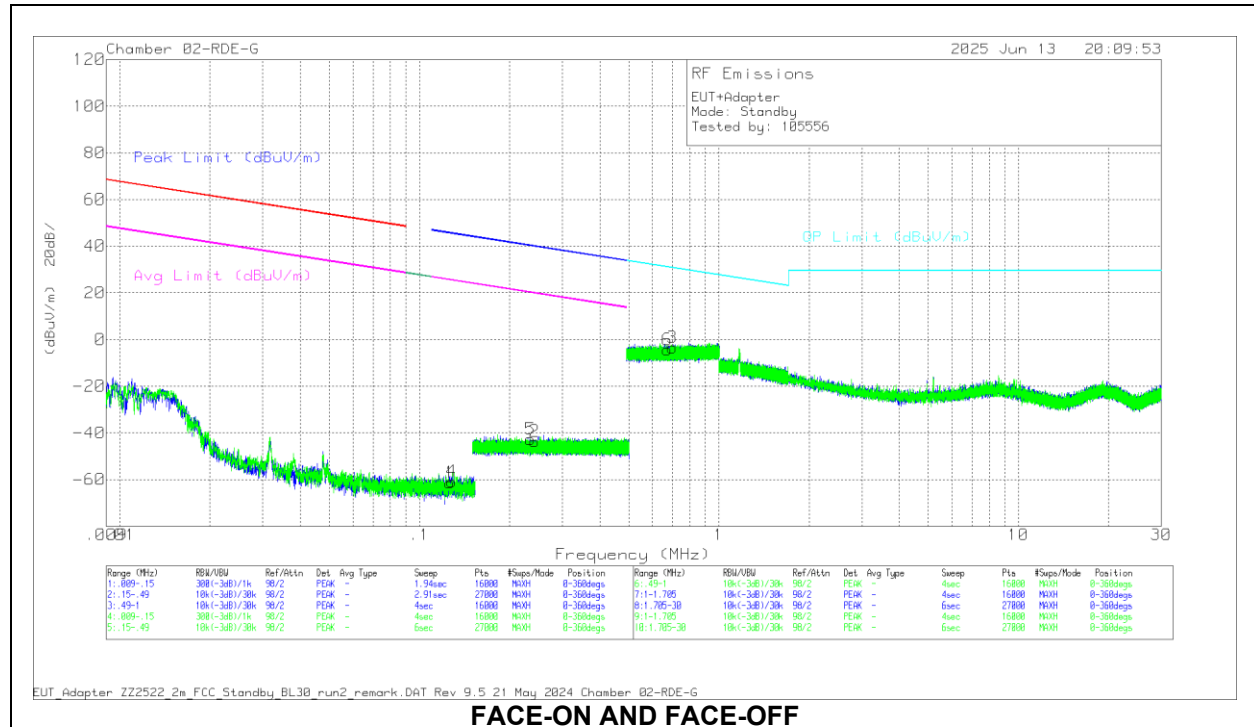
Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

OFS and chamber correlation testing had been performed and the chamber measured test result is the worst-case test result.

RESULTS

9.1. CONFIGURATION 1: STANDBY MODE

9.1.1. FCC TX FUNDAMENTAL & SPURIOUS EMISSIONS (9 kHz - 30 MHz)



FACE-ON AND FACE-OFF

DATA

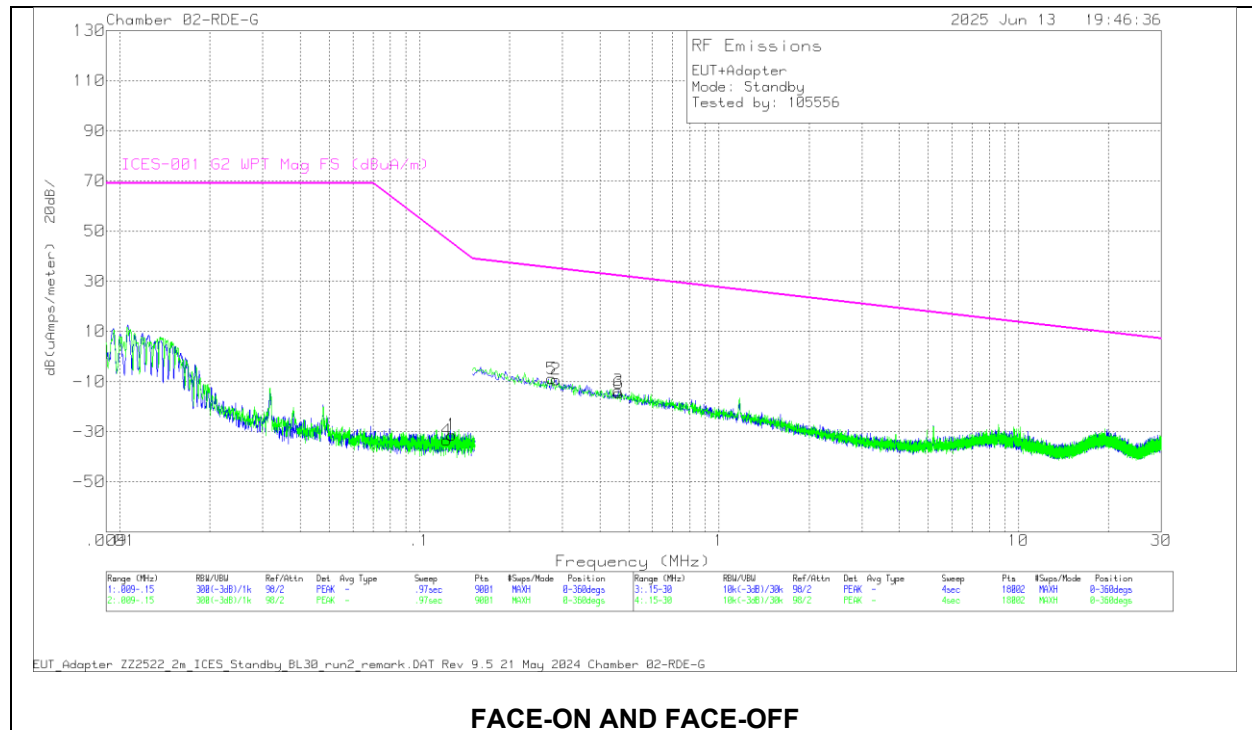
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(ACF) (dB/m)	Loop Path 30Hz-1MHz (dB)	Dist Corr 300m (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.1265	-5.23	Pk	55.9	-32	-80	-61.33	45.58	-106.91	25.58	-86.91	0-360	Face-on
4	.1283	-4.57	Pk	55.9	-32.1	-80	-60.77	45.46	-106.23	25.46	-86.23	0-360	Face-off
5	.2348	12.91	Pk	56.4	-32	-80	-42.69	40.2	-82.89	20.2	-62.89	0-360	Face-off
2	.2425	12.04	Pk	56.3	-32	-80	-43.66	39.92	-83.58	19.92	-63.58	0-360	Face-on

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(ACF) (dB/m)	Loop Path 30Hz-1MHz (dB)	Dist Corr 30m (dB)	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Marker	Polarity
6	.6729	11.27	Pk	56.3	-31.9	-40	-4.33	31.05	-35.38	6	Face-off
3	.699	12.19	Pk	56.3	-31.9	-40	-3.41	30.72	-34.13	3	Face-on

Pk - Peak detector

9.1.2. ISED TX FUNDAMENTAL & SPURIOUS EMISSIONS (9 kHz – 30 MHz)



DATA

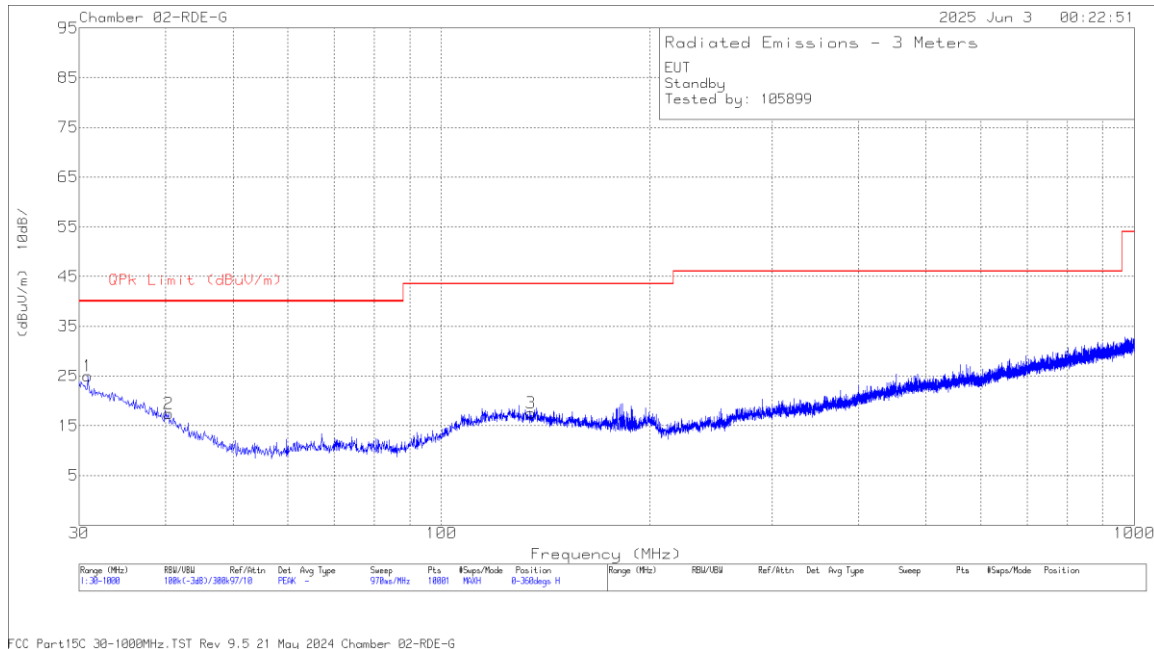
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna H(ACF) (dB/m)	Loop Path 30Hz-1MHz (dB)	Corrected Reading dB(uAmps/meter)	RSS-216 G2 WPT Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)	Polarity
4	.1233	-5.82	Pk	4.4	-32	-33.42	46.72	-80.14	0-360	Face-off
1	.1282	-3.69	Pk	4.4	-32	-31.29	45.19	-76.48	0-360	Face-on

Pk - Peak detector

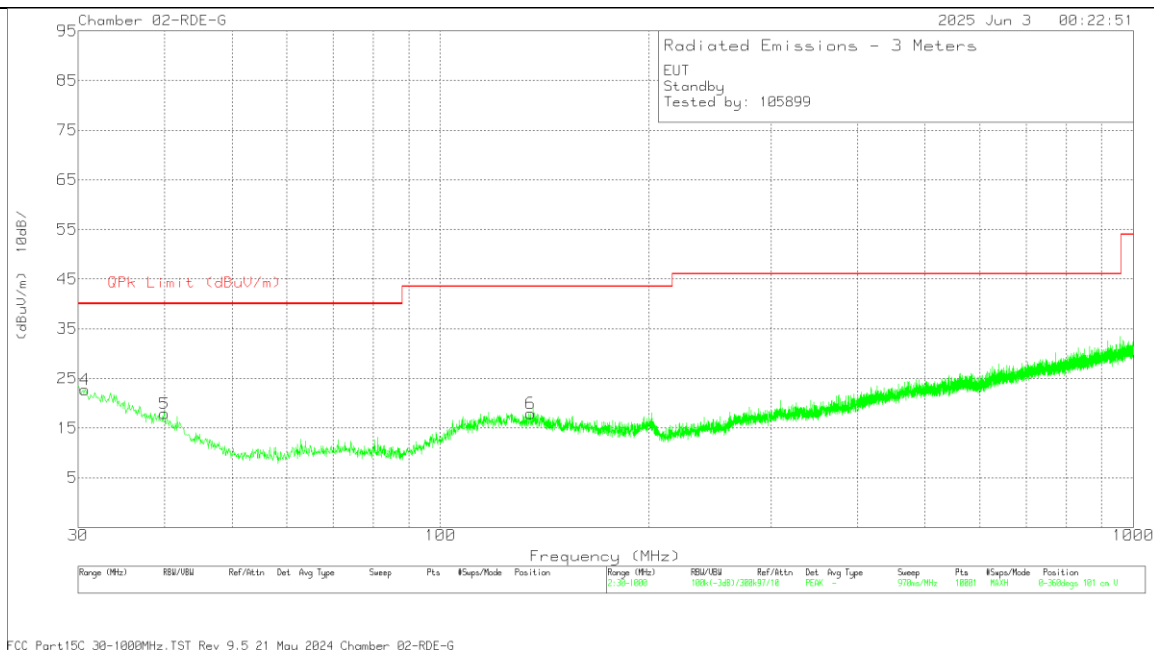
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna H(ACF) (dB/m)	Loop Path 100kHz-30MHz (dB)	Corrected Reading dB(uAmps/meter)	RSS-216 G2 WPT Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)	Polarity
5	.276	17.43	Pk	5.8	-32.1	-8.87	35.32	-44.19	0-360	Face-off
2	.286	17.5	Pk	5.4	-32.1	-9.2	35.1	-44.3	0-360	Face-on
3	.4617	17.03	Pk	1.4	-32.1	-13.67	32.21	-45.88	0-360	Face-on
6	.4634	16.15	Pk	1.3	-32.1	-14.65	32.19	-46.84	0-360	Face-off

Pk - Peak detector

9.1.3. FCC TX SPURIOUS EMISSION (30 - 1000 MHz)



HORIZONTAL



VERTICAL

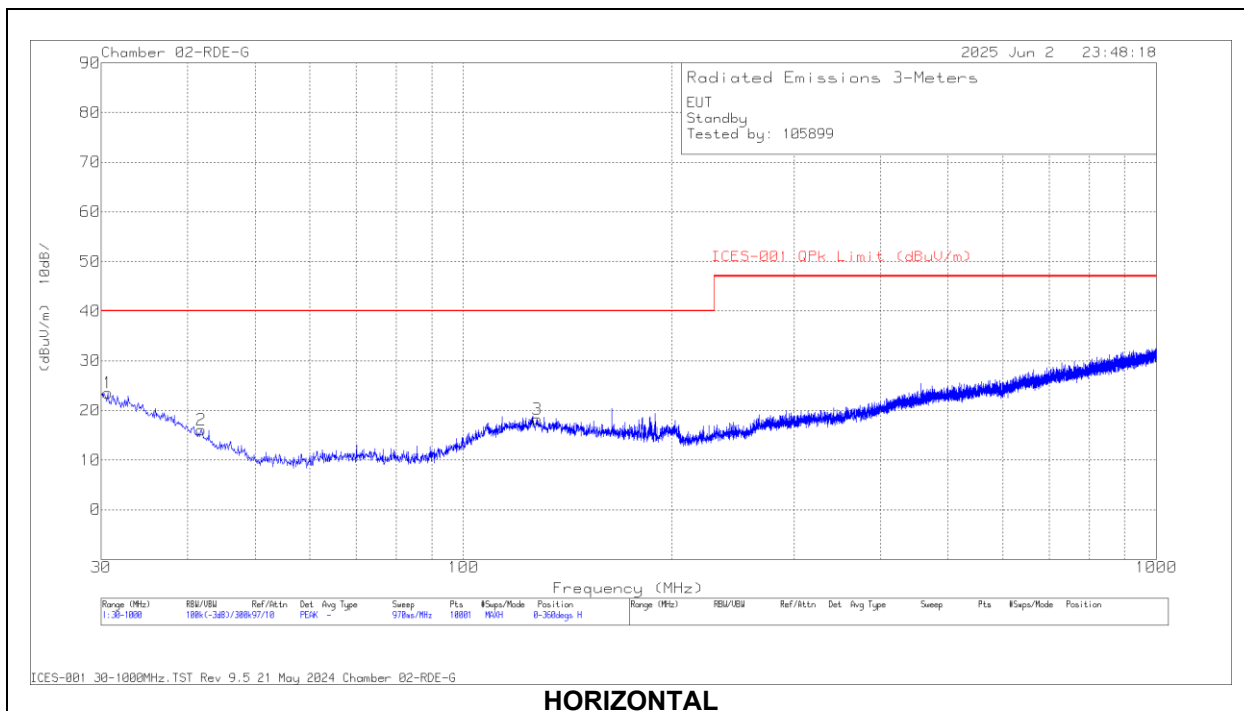
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	173997 ACF (dB/m)	CBL (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 133.443	20.72	Qp	19.4	-29.8	10.32	43.52	-33.2	12	397	H
6	* 136.71	21.12	Qp	19.2	-29.6	10.72	43.52	-32.8	356	102	V
4	30.0281	21.4	Qp	26.8	-31.1	17.1	40	-22.9	76	267	V
1	31.2589	21.09	Qp	25.8	-31.1	15.79	40	-24.21	224	260	H
2	37.435	21.67	Qp	21.5	-31	12.17	40	-27.83	173	367	H
5	40.787	21.65	Qp	19.1	-30.6	10.15	40	-29.85	121	205	V

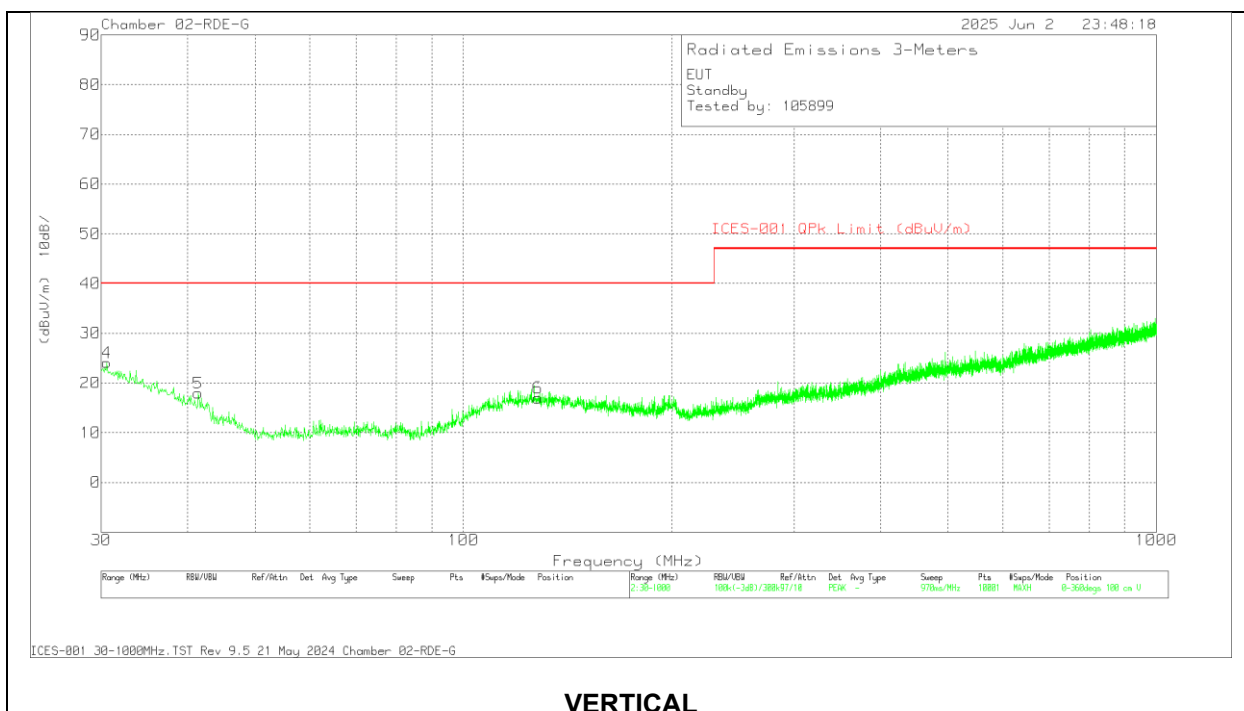
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Qp - Quasi-Peak detector

9.1.4. ISED TX SPURIOUS EMISSION (30 - 1000 MHz)



HORIZONTAL



VERTICAL

DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	173997 ACF (dB/m)	CBL (dB)	Corrected Reading (dBuV/m)	RSS-216 QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.0461	21.44	Qp	26.8	-31.1	17.14	40	-22.86	354	321	H
2	44.838	21.51	Qp	16.1	-30.9	6.71	40	-33.29	228	274	H
3	129.291	21.02	Qp	19.6	-30.1	10.52	40	-29.48	326	175	H
4	31.0724	21.15	Qp	26	-31.2	15.95	40	-24.05	67	141	V
5	40.454	21.39	Qp	19.3	-30.5	10.19	40	-29.81	151	264	V
6	125.73	21.07	Qp	19.7	-29.5	11.27	40	-28.73	206	388	V

Qp - Quasi-Peak detector

Note: The original data collected based on the old limit at 3m distance

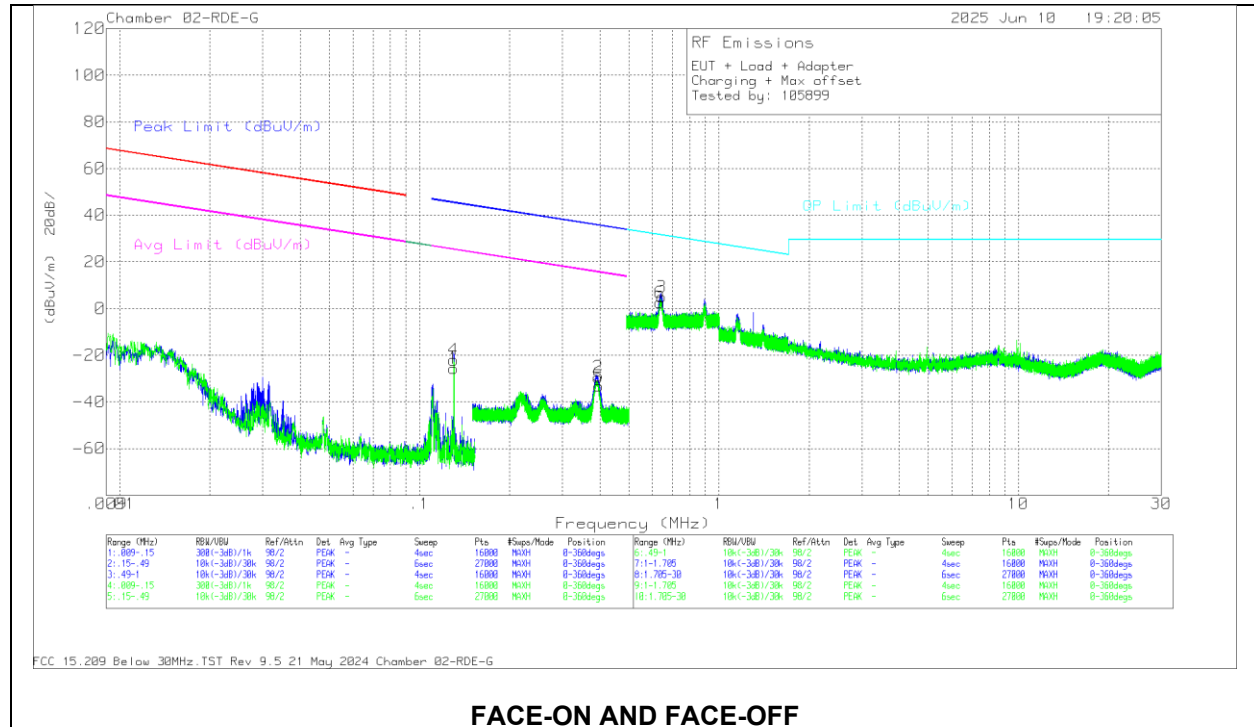
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	173997 ACF (dB/m)	Hybrid Path 30MHz-1000MHz (dB)	Dist Corr 10m (dB)	Corrected Reading (dBuV/m)	RSS-216 QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Antenna Polarity
1	30.0461	21.44	Qp	26.8	-31.1	-10.46	6.68	30	-23.32	354	321	H
2	44.838	21.51	Qp	16.1	-30.9	-10.46	-3.75	30	-33.75	228	274	H
3	129.291	21.02	Qp	19.6	-30.1	-10.46	0.06	30	-29.94	326	175	H
4	31.0724	21.15	Qp	26	-31.2	-10.46	5.49	30	-24.51	67	141	V
5	40.454	21.39	Qp	19.3	-30.5	-10.46	-0.27	30	-30.27	151	264	V
6	125.73	21.07	Qp	19.7	-29.5	-10.46	0.81	30	-29.19	206	388	V

Qp - Quasi-Peak detector

Note: The original data collected at 3m converted at 10m distance.

9.2. CONFIGURATION 2: OPERATING MODE W/ LOAD #1

9.2.1. FCC TX FUNDAMENTAL & SPURIOUS EMISSIONS (9 kHz - 30 MHz)



DATA

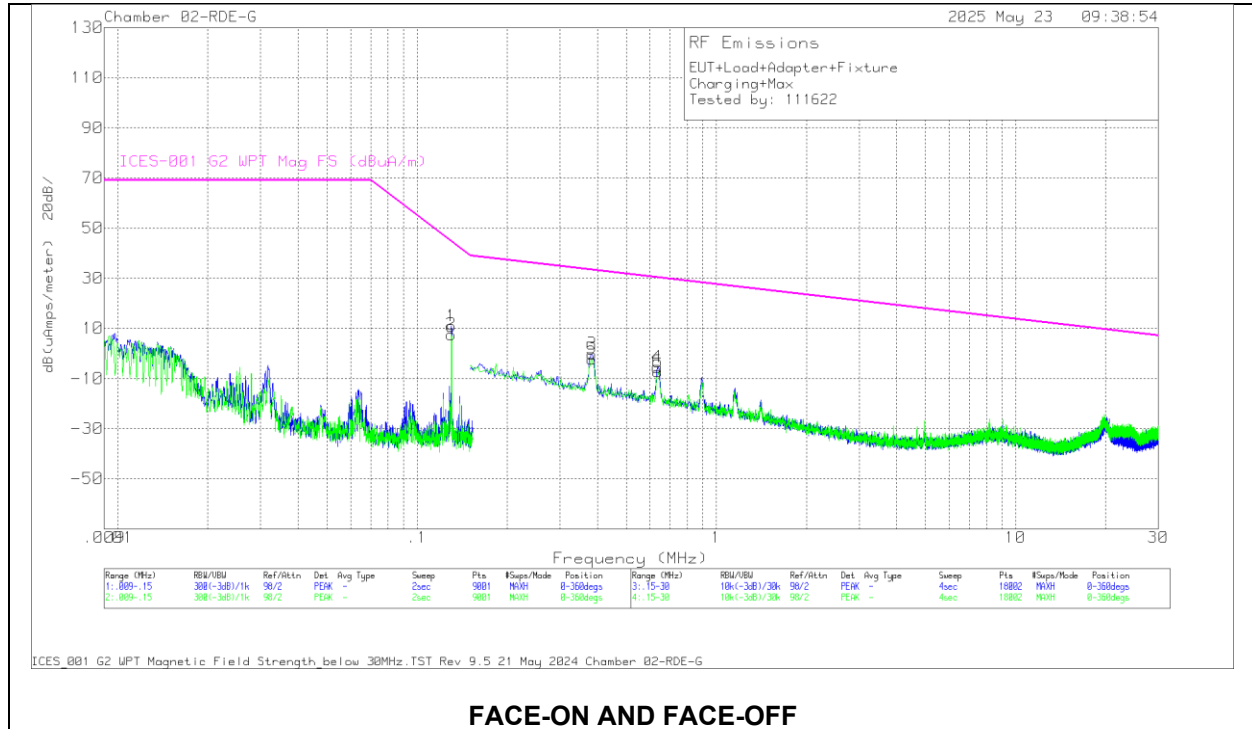
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(ACF) (dB/m)	Loop Path 30Hz-1MHz (dB)	Dist Corr 300m (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.1301	30.54	Pk	55.9	-32	-80	-25.56	45.34	-70.9	25.34	-50.9	0-360	Face-on
4	.1303	34.11	Pk	55.9	-32	-80	-21.99	45.33	-67.32	25.33	-47.32	0-360	Face-off
2	.3953	26.3	Pk	56.3	-32	-80	-29.4	35.67	-65.07	15.67	-45.07	0-360	Face-on
5	.3967	22.5	Pk	56.3	-32	-80	-33.2	35.64	-68.84	15.64	-48.84	0-360	Face-off

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(ACF) (dB/m)	Loop Path 30Hz-1MHz (dB)	Dist Corr 30m (dB)	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Marker	Polarity
6	.6345	18.19	Pk	56.3	-31.9	-40	2.59	31.56	-28.97	0-360	Face-off
3	.6442	20.57	Pk	56.3	-31.9	-40	4.97	31.43	-26.46	0-360	Face-on

Pk - Peak detector

9.2.2. ISED TX FUNDAMENTAL & SPURIOUS EMISSIONS (9 kHz - 30 MHz)



DATA

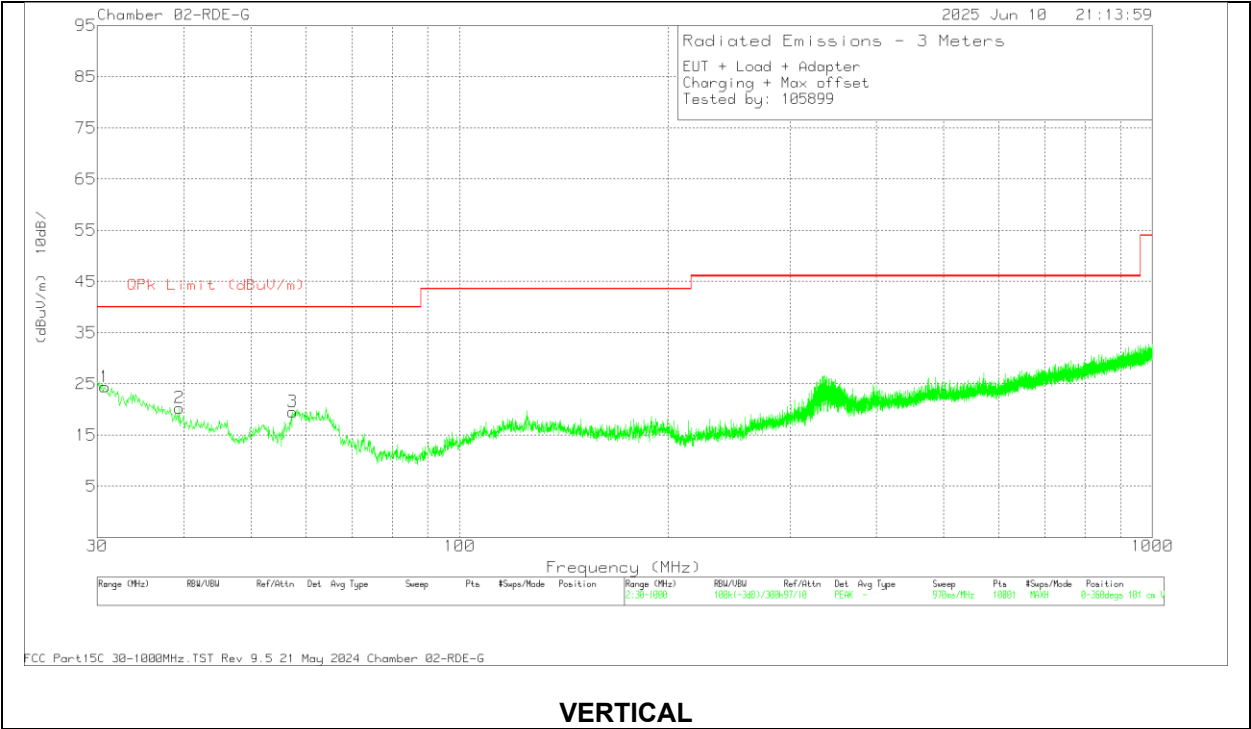
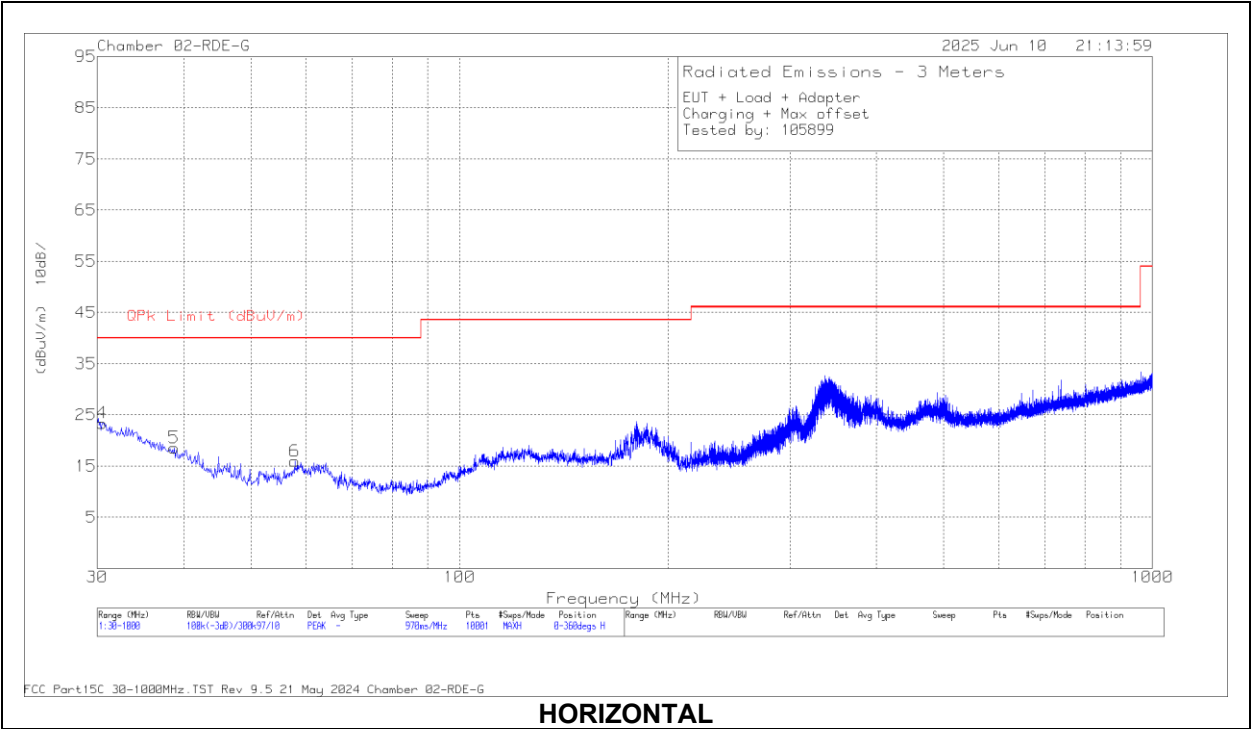
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna H(ACF) (dB/m)	Loop Path 30Hz-1MHz (dB)	Corrected Reading dB(uAmps/meter)	RSS-216 G2 WPT Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.1303	38.54	Pk	4.4	-32	10.94	44.54	-33.6	0-360	Face-on
2	.1303	35.2	Pk	4.4	-32	7.6	44.54	-36.94	0-360	Face-off

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna H(ACF) (dB/m)	Loop Path 100kHz-30MHz (dB)	Corrected Reading dB(uAmps/meter)	RSS-216 G2 WPT Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)	Polarity
3	.3838	29.06	Pk	2.8	-32.1	-2.4	33.33	-33.57	0-360	Face-on
5	.3838	27.11	Pk	2.8	-32.1	-2.19	33.33	-35.52	0-360	Face-off
4	.6358	27.92	Pk	-1.2	-32.1	-5.38	30.28	-35.66	0-360	Face-on
6	.6375	26.05	Pk	-1.2	-32.1	-7.25	30.26	-37.51	0-360	Face-off

Pk - Peak detector

9.2.3. FCC TX SPURIOUS EMISSION (30 - 1000 MHz)

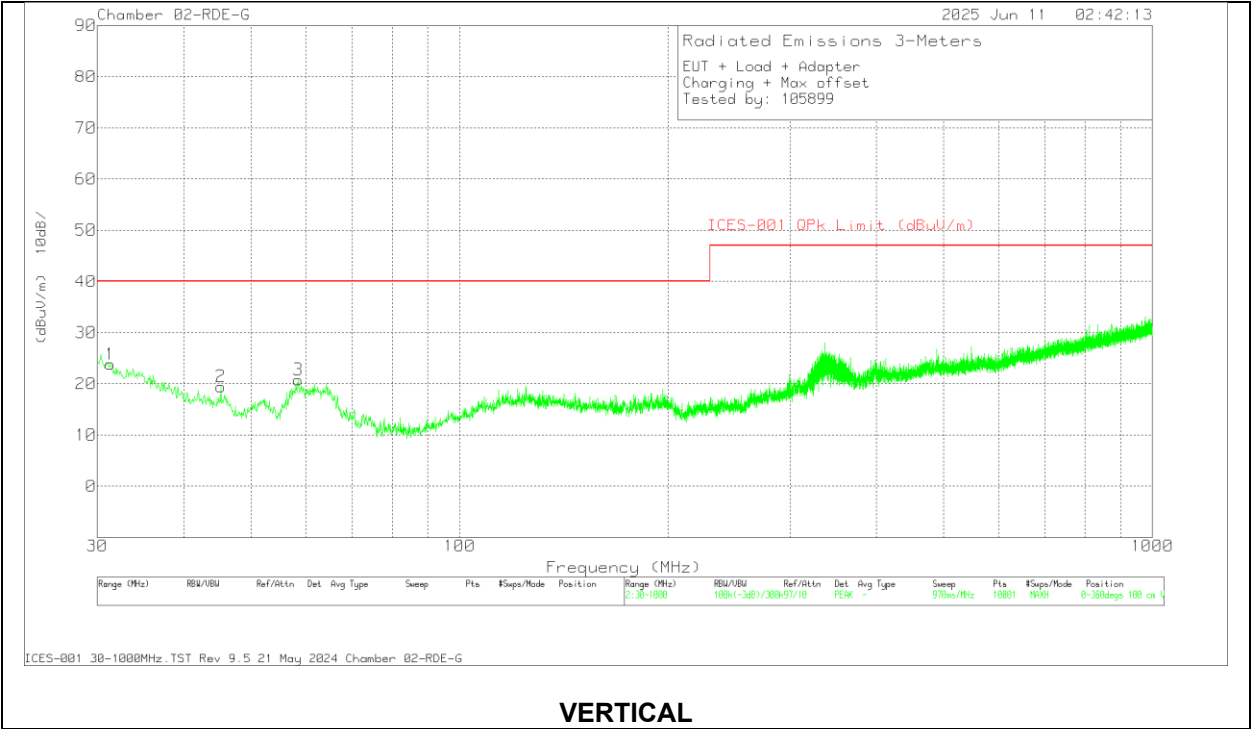
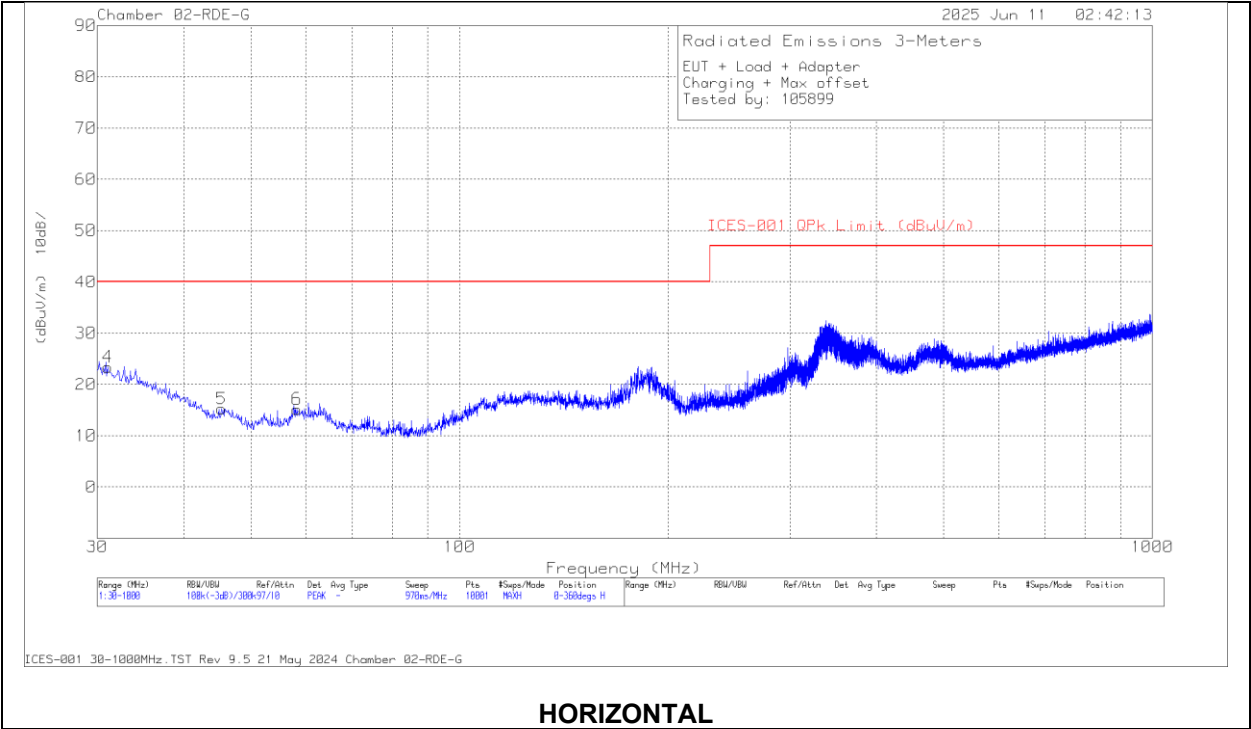


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	173997 ACF (dB/m)	CBL (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degr)	Height (cm)	Polarity
4	30.0775	22.17	Qp	26.7	-31.1	17.77	40	-22.23	39	177	H
5	38.9806	22.13	Qp	20.4	-30.9	11.63	40	-28.37	50	321	H
6	57.9508	28.95	Qp	13.2	-30.6	11.55	40	-28.45	340	372	H
1	30.7083	23.83	Qp	26.2	-31.2	18.83	40	-21.17	178	109	V
2	39.3005	23.41	Qp	20.2	-30.8	12.81	40	-27.19	13	144	V
3	57.6176	33.84	Qp	13.2	-30.8	16.24	40	-23.76	85	113	V

Qp - Quasi-Peak detector

9.2.4. ISED TX SPURIOUS EMISSION (30 - 1000 MHz)



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	173997 ACF (dB/m)	CBL (dB)	Corrected Reading (dBuV/m)	RSS-216 QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	30.8659	21.27	Qp	26.1	-31.2	16.17	40	-23.83	329	119	H
5	45.5497	24.69	Qp	15.8	-30.7	9.79	40	-30.21	245	342	H
6	57.9956	29.48	Qp	13.2	-30.6	12.08	40	-27.92	8	363	H
1	31.1247	24.41	Qp	25.9	-31.2	19.11	40	-20.89	4	108	V
2	45.6312	23.01	Qp	15.7	-30.7	8.01	40	-31.99	115	331	V
3	58.7422	33.61	Qp	13.3	-30.8	16.11	40	-23.89	82	128	V

Qp - Quasi-Peak detector

Note: The original data collected based on the old limit at 3m distance

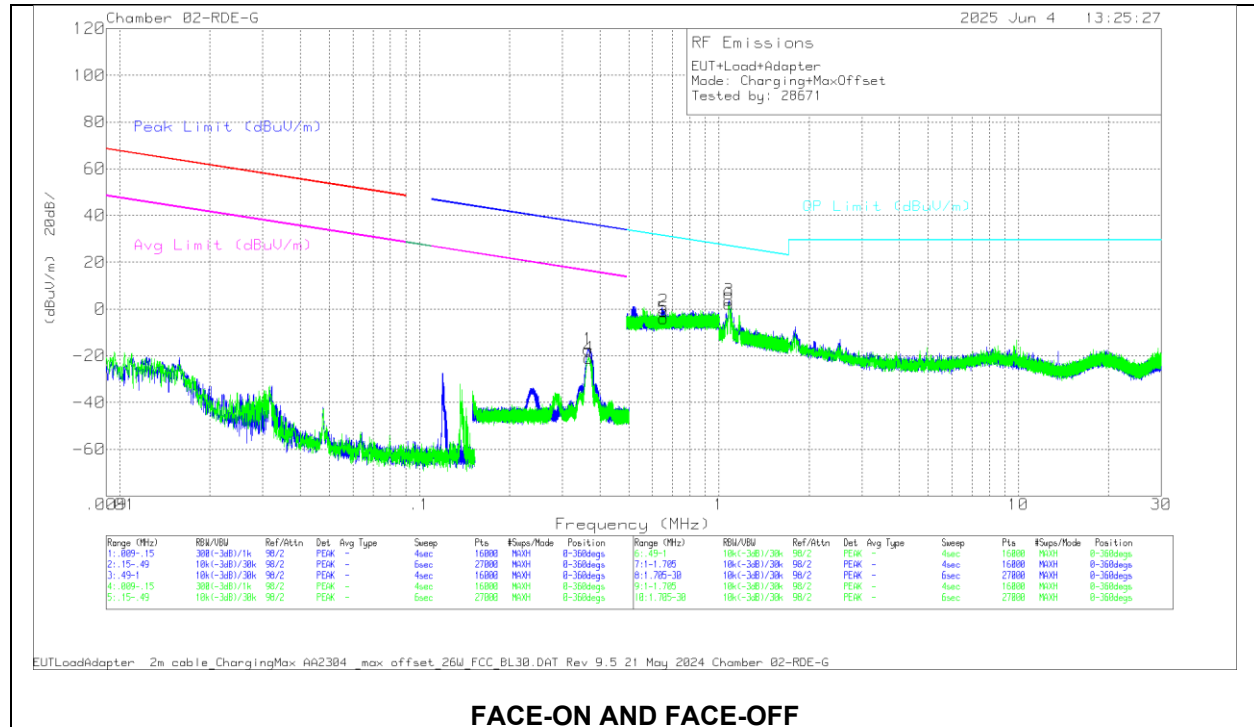
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	173997 ACF (dB/m)	Hybrid Path 30MHz-1000MHz (dB)	Dist Corr 10m (dB)	Corrected Reading (dBuV/m)	RSS-216 QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Antenna Polarity
4	30.8659	21.27	Qp	26.1	-31.2	-10.46	5.71	30	-24.29	329	119	H
5	45.5497	24.69	Qp	15.8	-30.7	-10.46	-0.67	30	-30.67	245	342	H
6	57.9956	29.48	Qp	13.2	-30.6	-10.46	1.62	30	-28.38	8	363	H
1	31.1247	24.41	Qp	25.9	-31.2	-10.46	8.65	30	-21.35	4	108	V
2	45.6312	23.01	Qp	15.7	-30.7	-10.46	-2.45	30	-32.45	115	331	V
3	58.7422	33.61	Qp	13.3	-30.8	-10.46	5.65	30	-24.35	82	128	V

Qp - Quasi-Peak detector

Note: The original data collected at 3m converted at 10m distance.

9.3. CONFIGURATION 3: OPERATING MODE W/ LOAD #2

9.3.1. FCC TX FUNDAMENTAL & SPURIOUS EMISSIONS (9 kHz - 30 MHz)



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(ACF) (dB/m)	Loop Path 30Hz-1MHz (dB)	Dist Corr 300m (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.3659	38.48	Pk	56.3	-32	-80	-17.22	36.34	-53.56	16.34	-33.56	0-360	Face-on
4	.3673	34.78	Pk	56.3	-32	-80	-20.92	36.31	-57.23	16.31	-37.23	0-360	Face-off

Pk - Peak detector

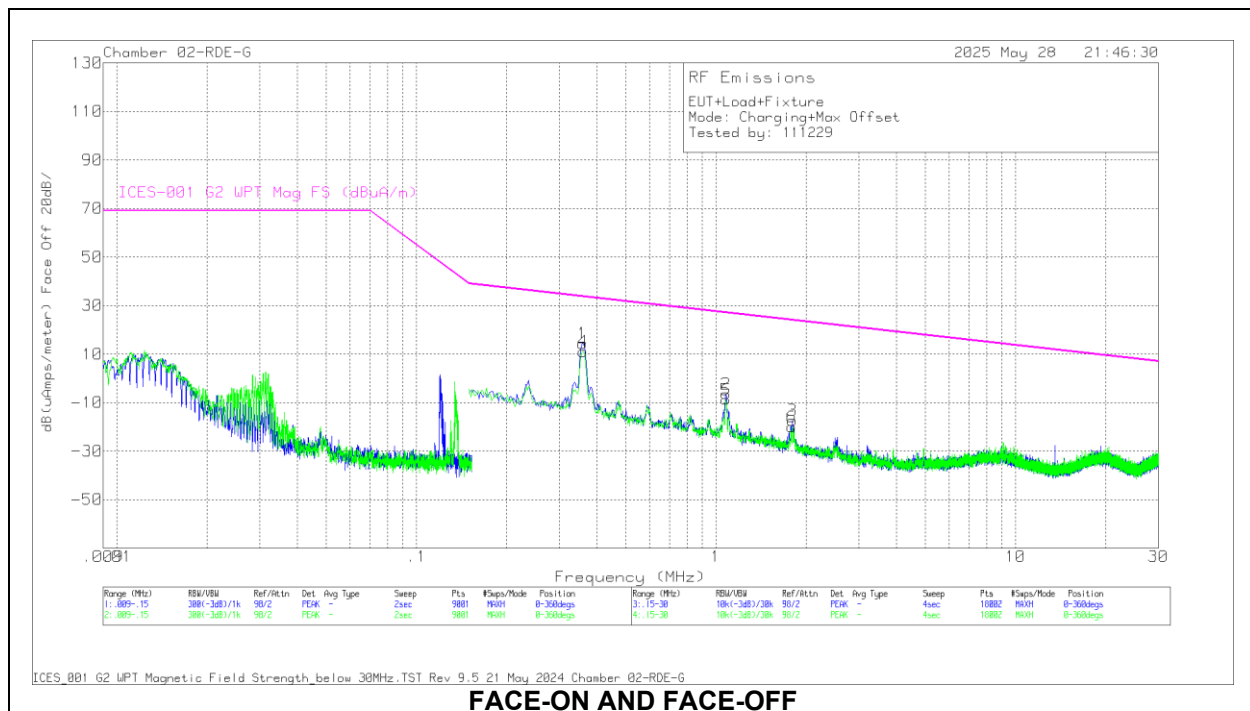
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(ACF) (dB/m)	Loop Path 30Hz-1MHz (dB)	Dist Corr 30m (dB)	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
5	.6528	11.68	Pk	56.3	-31.9	-40	-3.92	31.32	-35.24	0-360	Face-off
2	.6532	14.76	Pk	56.3	-31.9	-40	-.84	31.31	-32.15	0-360	Face-on

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(ACF) (dB/m)	Loop Path 100kHz-30MHz (dB)	Dist Corr 30m (dB)	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
6	1.0792	27.7	Pk	46.4	-32	-40	2.1	26.96	-24.86	0-360	Face-off
3	1.0793	29.39	Pk	46.4	-32	-40	3.79	26.96	-23.17	0-360	Face-on

Pk - Peak detector

9.3.2. ISED TX FUNDAMENTAL & SPURIOUS EMISSIONS (9 kHz - 30 MHz)



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna H(ACF) (dB/m)	Loop Path 100kHz-30MHz (dB)	Corrected Reading dB(uAmps/meter)	RSS-216 G2 WPT Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.3589	43.13	Pk	3.4	-32.1	14.43	33.73	-19.3	0-360	Face-on
4	.3606	39.79	Pk	3.4	-32.1	11.09	33.7	-22.61	0-360	Face-off
5	1.0785	28.44	Pk	-5.1	-32	-8.66	27.09	-35.75	0-360	Face-off
2	1.0801	30.76	Pk	-5.1	-32	-6.34	27.08	-33.42	0-360	Face-on
6	1.7947	20.82	Pk	-8.9	-31.9	-19.98	24.01	-43.99	0-360	Face-off
3	1.8014	23.48	Pk	-8.9	-31.9	-17.32	23.99	-41.31	0-360	Face-on

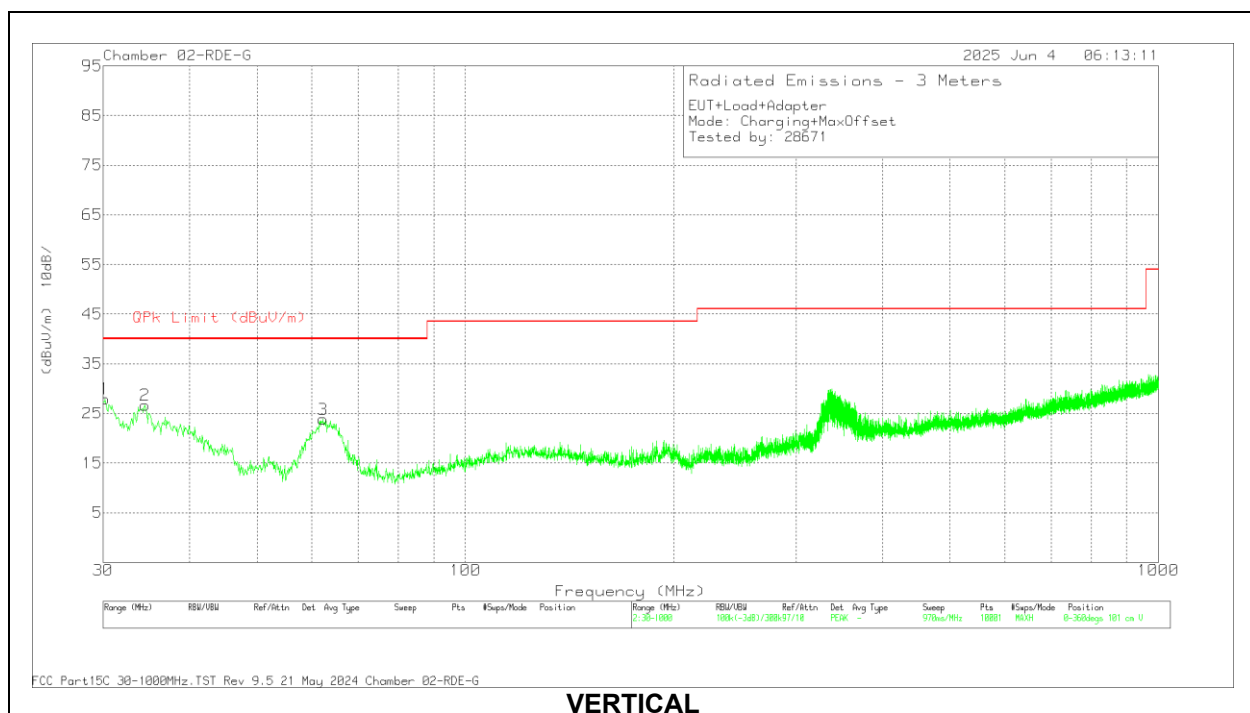
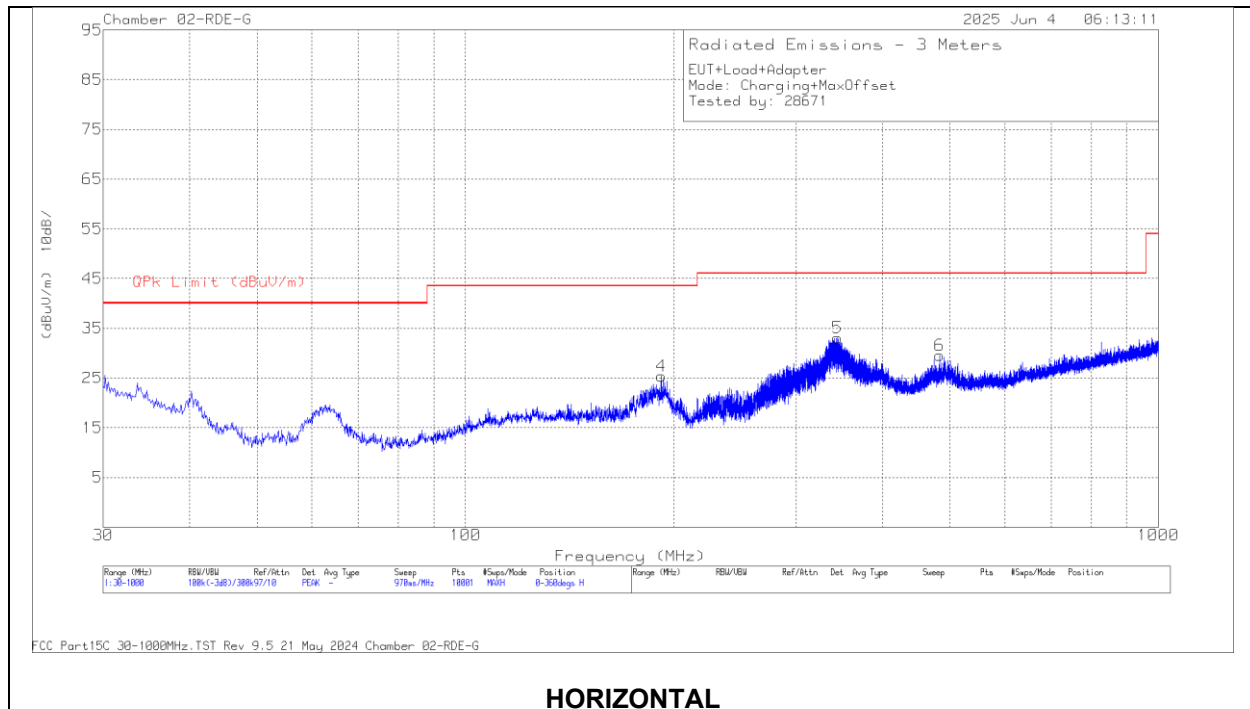
Pk - Peak detector

Radiated Emissions

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna H(ACF) (dB/m)	Loop Path 100kHz-30MHz (dB)	Corrected Reading dB(uAmps/meter)	RSS-216 G2 WPT Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.3601	43.12	Qp	3.4	-32.1	14.42	33.71	-19.29	216	Face-on

Qp - Quasi-Peak detector

9.3.3. FCC TX SPURIOUS EMISSION (30 - 1000 MHz)

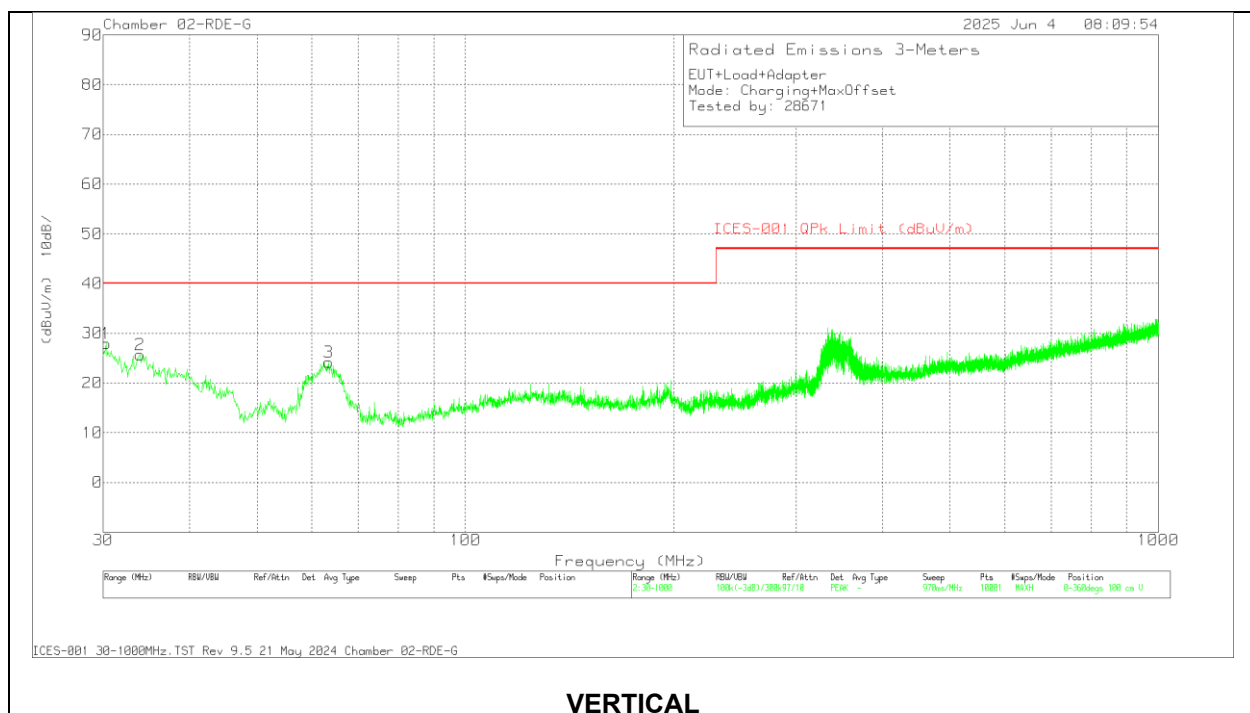
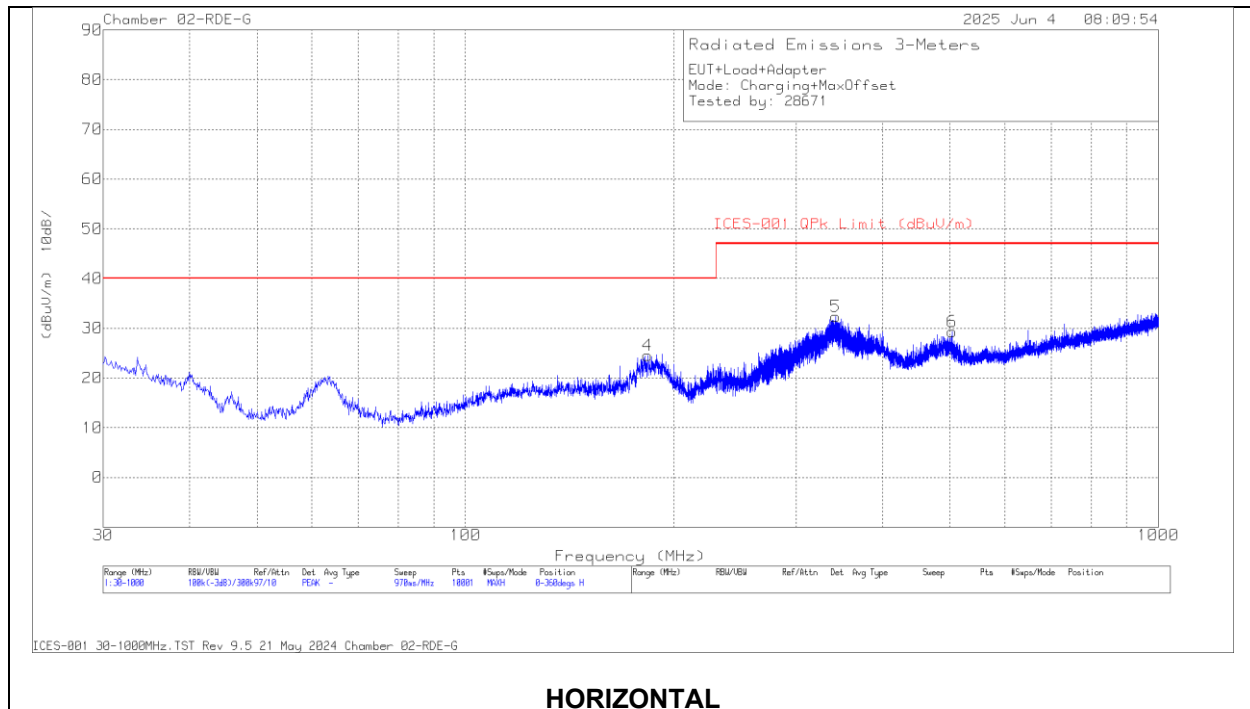


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	173997 ACF (dB/m)	CBL (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.1112	27.12	Qp	26.7	-31.1	22.72	40	-17.28	19	103	V
2	34.327	27.13	Qp	23.9	-30.7	20.33	40	-19.67	314	115	V
3	61.875	32.08	Qp	13.6	-30.5	15.18	40	-24.82	131	104	V
4	188.6	31.98	Qp	17.1	-29	20.08	43.52	-23.44	136	136	H
5	341.157	37.81	Qp	19.9	-28.3	29.41	46.02	-16.61	352	114	H
6	493.653	26.51	Qp	23.6	-27.8	22.31	46.02	-23.71	312	194	H

Qp - Quasi-Peak detector

9.3.4. ISED TX SPURIOUS EMISSION (30 - 1000 MHz)



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	173997 ACF (dB/m)	CBL (dB)	Corrected Reading (dBuV/m)	RSS-216 QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.0586	26.45	Qp	26.8	-31.1	22.15	40	-17.85	347	125	V
2	33.838	26.15	Qp	24.2	-30.6	19.75	40	-20.25	347	100	V
3	58.803	34.4	Qp	13.3	-30.8	16.9	40	-23.1	98	109	V
4	188.894	32.57	Qp	17.1	-28.9	20.77	40	-19.23	135	102	H
5	335.803	35.53	Qp	19.9	-28.3	27.13	47	-19.87	99	103	H
6	496.327	26.24	Qp	23.6	-27.5	22.34	47	-24.66	307	178	H

Qp - Quasi-Peak detector

Note: The original data collected based on the old limit at 3m distance

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	173997 ACF (dB/m)	Hybrid Path 30MHz-1000MHz (dB)	Dist Corr 10m (dB)	Corrected Reading (dBuV/m)	RSS-216 QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Antenna Polarity
1	30.0586	26.45	Qp	26.8	-31.1	-10.46	11.69	30	-18.31	347	125	V
2	33.838	26.15	Qp	24.2	-30.6	-10.46	9.29	30	-20.71	347	100	V
3	58.803	34.4	Qp	13.3	-30.8	-10.46	6.44	30	-23.56	98	109	V
4	188.894	32.57	Qp	17.1	-28.9	-10.46	10.31	30	-19.69	135	102	H
5	335.803	35.53	Qp	19.9	-28.3	-10.46	16.67	37	-20.33	99	103	H
6	496.327	26.24	Qp	23.6	-27.5	-10.46	11.88	37	-25.12	307	178	H

Qp - Quasi-Peak detector

Note: The original data collected at 3m converted at 10m distance.

10. FREQUENCY STABILITY

LIMIT

RSS-216 §The frequency stability requirements with respect to ambient temperature specified in subclause 10.4.2 of ANSI C63.30-2021 shall apply only for WPT source devices intended for outdoor operation. This test shall be performed at the rated power supply voltage and for three ambient temperatures: -20°C, +20°C and +50°C.

The frequency stability with respect to power supply voltage shall apply to all WPT source devices.

TEST PROCEDURE

ANSI C63.30-2021 Clause 10.4.2

RESULTS

No non-compliance noted.

ID:	32547	Date:	06/1/2025
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10.1. CONFIGURATION 2: OPERATING MODE W/ LOAD #1

Temperature (°C)	Voltage	Start Up		@ 2 mins		@ 5 mins		@ 10 mins		Signal Level (dBuA)	Correction Factor*	Corrected Signal Level (dBuA/m)	Limit (dBuA/m)	Within Authorized Frequency Band (based on 99% BW) (Yes or No)	Result (Pass / Fail)
		Freq. Reading (kHz)	Signal Level (dBuA)	Freq. Reading (kHz)	Signal Level (dBuA)	Freq. Reading (kHz)	Signal Level (dBuA)	Freq. Reading (kHz)	Signal Level (dBuA)						
+50°C	Normal	127.77241	38.36	127.77204	38.86	127.77214	37.27	127.77202	35.31	38.8600	-27.2000	11.6600	44.540	Yes	Pass
+20°C (Normal)		127.772427	38.07	127.772436	38.09	127.772467	38.14	127.772467	38.14	38.1400	-27.2000	10.9400		Yes	Pass
-20°C		127.772832	36.42	127.773036	34.94	127.773188	33.28	127.772574	35.04	36.4200	-27.2000	9.2200		Yes	Pass
+20°C	85% (or manufacturer declared min)	127.772605	34.61	127.772595	35.79	127.772549	36.26	127.772506	37.00	37.0000	-27.2000	9.800	44.540	Yes	Pass
	115% (or manufacturer declared max)	127.772662	34.89	127.772649	34.84	127.772635	34.61	127.772614	34.81	34.8900	-27.2000	7.690		Yes	Pass

*Note: Field strength at 3m at nominal temperature of 20°C was 10.94 dBuA/m. Correction factor is the difference between the signal level measured in the environment chamber using the small loop antenna at nominal temperature and the field strength, H-dBuA/m, measured at 3m.

10.2. CONFIGURATION 3: OPERATING MODE W/ LOAD #2

Temperature (°C)	Voltage	Start Up		@ 2 mins		@ 5 mins		@ 10 mins		Signal Level (dBuA)	Correction Factor*	Corrected Signal Level (dBuA/m)	Limit (dBuA/m)	Within Authorized Frequency Band (based on 99% BW) (Yes or No)	Result (Pass / Fail)
		Freq. Reading (kHz)	Signal Level (dBuA)	Freq. Reading (kHz)	Signal Level (dBuA)	Freq. Reading (kHz)	Signal Level (dBuA)	Freq. Reading (kHz)	Signal Level (dBuA)						
+50°C	Normal	360003742	10.53	359.99872	10.99	360.00318	11.29	360.002772	11.11	11.2900	4.4000	15.6900	33.700	Yes	Pass
+20°C (Normal)		360.004218	9.86	359.999673	9.93	359.999773	9.96	359.999881	10.02	10.0200	4.4000	14.4200		Yes	Pass
-20°C		360.005540	11.96	360.001195	11.59	360.001393	11.48	360.001411	11.46	11.9600	4.4000	16.3600		Yes	Pass
+20°C	85% (or manufacturer declared min)	360.000060	14.89	360.000058	14.35	360.004725	14.35	360.004679	14.36	14.8900	4.4000	19.290	33.700	Yes	Pass
	115% (or manufacturer declared max)	360.004605	14.41	360.004631	14.47	359.999992	14.39	360.000049	14.38	14.4700	4.4000	18.870		Yes	Pass

*Note: Field strength at 3m at nominal temperature of 20°C was 14.42 dBuA/m. Correction factor is the difference between the signal level measured in the environment chamber using the small loop antenna at nominal temperature and the field strength, H-dBuA/m, measured at 3m.

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

Frequency of Emission (MHz)	Conducted Limit (dBµV)	
	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.

ISED RSS-216 Section 5.3.2

ISED RSS-216 Table 2

Table 2: Conducted emission limits (AC mains terminals)		
Frequency range (MHz)	Quasi-peak (dBµV)	Average (dBµV)
0.009 – 0.05	110	—
0.05 – 0.15	90 to 80 *	—
0.15 – 0.5	66 to 56 *	56 to 46 *
0.5 – 5	56	46
5 – 30	60	50

Note: The more stringent limit applies at transition frequencies.
* In the 0.05 MHz to 0.15 MHz and 0.15 MHz to 0.5 MHz frequency ranges the limit level in dBµV decreases linearly with the logarithm of frequency

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

The receiver is set to a resolution bandwidth of 200Hz for below 150kHz, 9kHz for 150kHz to 30MHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

Testing ranges from 9kHz to 30MHz using ISED RSS-216 Table 2 limit to cover both FCC and ISED frequency range.

11.1. CONFIGURATION 1: STANDBY MODE

LINE 1 RESULTS

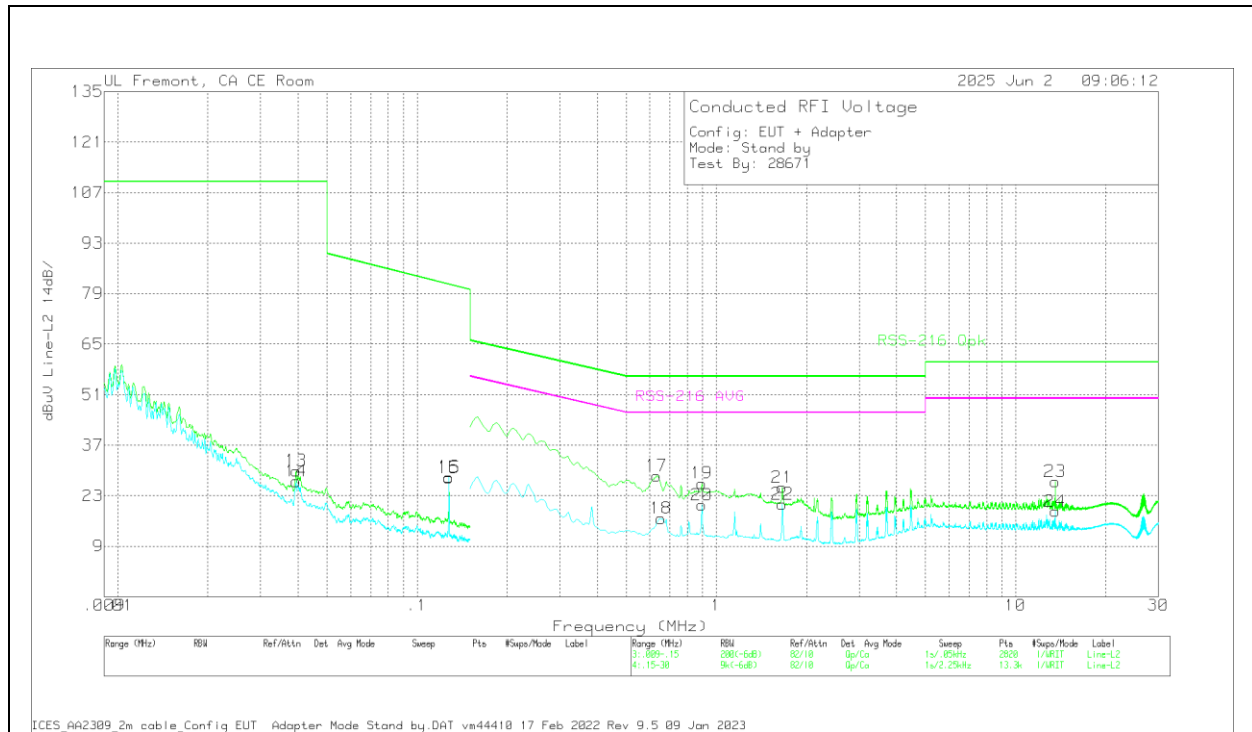


DATA

Range 1: Line-L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Line 1 C3_C1_Limiter no Pad_UL (dB)	Trns Limiter (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)	
2	.0277	24.6	Ca	1	10.8	10.7	47.1	-	-	
4	.0556	15.39	Ca	.3	9.9	9.9	35.49	-	-	
1	.0277	27.53	Qp	1	10.8	10.7	50.03	110	-59.97	
3	.0556	18.98	Qp	.3	9.9	9.9	39.08	89.04	-49.96	

Range 2: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Line 1 C3_C1_Limiter no Pad_UL (dB)	Trns Limiter (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)	RSS-216 AVG (dBuV)	Margin (dB)
6	.384	2.41	Ca	0	9.4	9.4	21.21	-	-	48.19	-26.98
8	.8948	3.37	Ca	0	9.4	9.4	22.17	-	-	46	-23.83
10	1.662	3.25	Ca	0	9.4	9.4	22.05	-	-	46	-23.95
12	13.56	1.31	Ca	.1	9.5	9.5	20.41	-	-	50	-29.59
5	.384	13.49	Qp	0	9.4	9.4	32.29	58.19	-25.9	-	-
7	.8948	9.08	Qp	0	9.4	9.4	27.88	56	-28.12	-	-
9	1.662	7.11	Qp	0	9.4	9.4	25.91	56	-30.09	-	-
11	13.56	10.09	Qp	.1	9.5	9.5	29.19	60	-30.81	-	-

LINE 2 RESULTS



DATA

Range 3: Line-L2 .15 - 30MHz									
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Line 2 C3_C2_Limiter no Pad_UL (dB)	Trns Limiter (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)
14	.0394	6.01	Ca	.5	10.2	10.3	27.01	-	-
16	.1278	9.16	Ca	.1	9.4	9.5	28.16	-	-
13	.0394	8.89	Qp	.5	10.2	10.3	29.89	110	-80.11
15	.1278	8.97	Qp	.1	9.4	9.5	27.97	81.46	-53.49

Range 4: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Line 2 C3_C2_Limiter no Pad_UL (dB)	Trns Limiter (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)	RSS-216 AVG (dBuV)	Margin (dB)
18	.6529	-2	Ca	0	9.3	9.4	16.7	-	-	46	-29.3
20	.8948	1.73	Ca	0	9.3	9.4	20.43	-	-	46	-25.57
22	1.662	1.84	Ca	0	9.4	9.4	20.64	-	-	46	-25.36
24	13.56	-4.5	Ca	.1	9.5	9.5	18.65	-	-	50	-31.35
17	.6315	9.8	Qp	0	9.3	9.4	28.5	56	-27.5	-	-
19	.8948	7.75	Qp	0	9.3	9.4	26.45	56	-29.55	-	-
21	1.662	6.5	Qp	0	9.4	9.4	25.3	56	-30.7	-	-
23	13.56	7.81	Qp	.1	9.5	9.5	26.91	60	-33.09	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

11.2. CONFIGURATION 2: OPERATING MODE W/ LOAD #1

LINE 1 RESULTS

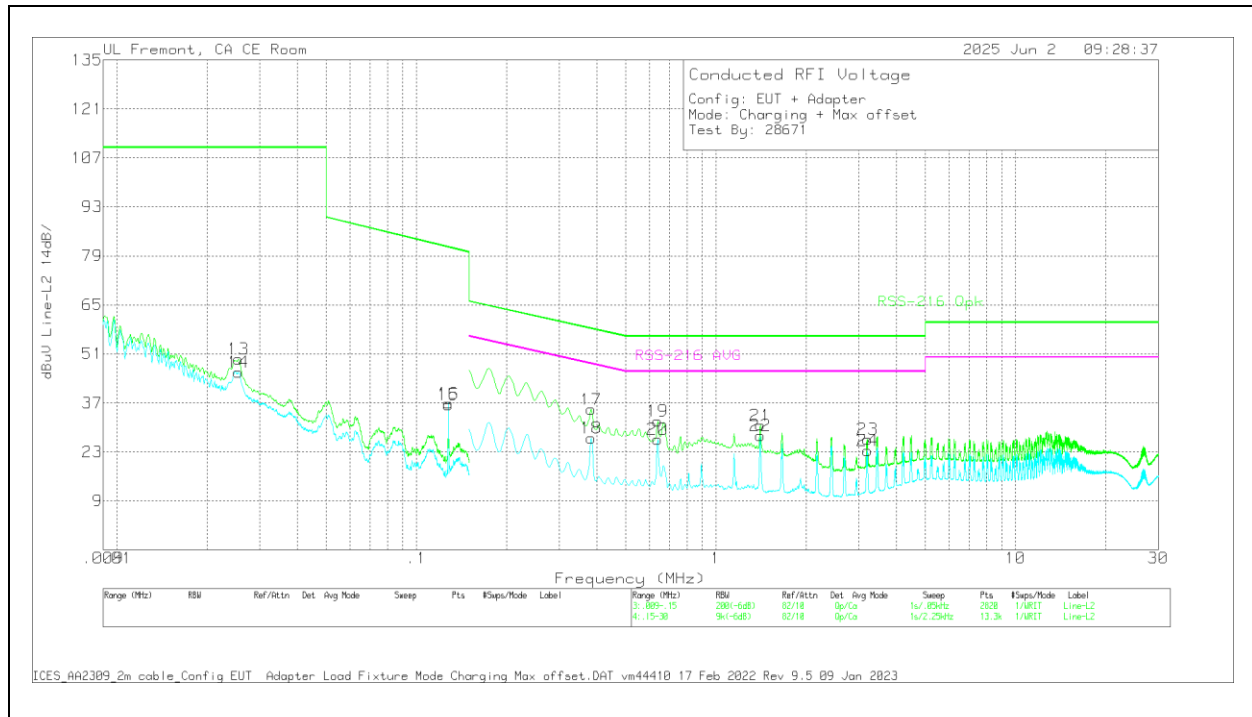


DATA

Range 1: Line-L1 .15 - 30MHz									
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Line 1 C3_C1_Limiter no Pad_UL (dB)	Trns Limiter (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)
2	.0252	23.12	Ca	1.2	10.9	10.8	46.02	-	-
4	.1278	17.55	Ca	.1	9.4	9.5	36.55	-	-
1	.0254	26.71	Qp	1.1	10.9	10.8	49.51	110	-60.49
3	.1278	17.18	Qp	.1	9.4	9.5	36.18	81.46	-45.28

Range 2: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Line 1 C3_C1_Limiter no Pad_UL (dB)	Trns Limiter (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)	RSS-216 AVG (dBuV)	Margin (dB)
6	.384	7.99	Ca	0	9.4	9.4	26.79	-	-	48.19	-21.4
8	.6383	6.35	Ca	0	9.4	9.4	25.15	-	-	46	-20.85
10	1.4055	10.96	Ca	0	9.4	9.4	29.76	-	-	46	-16.24
12	3.1853	8.23	Ca	0	9.4	9.4	27.03	-	-	46	-18.97
5	.384	15.3	Qp	0	9.4	9.4	34.1	58.19	-24.09	-	-
7	.6383	14.76	Qp	0	9.4	9.4	33.56	56	-22.44	-	-
9	1.4055	13.28	Qp	0	9.4	9.4	32.08	56	-23.92	-	-
11	3.1853	10.53	Qp	0	9.4	9.4	29.33	56	-26.67	-	-

LINE 2 RESULTS



DATA

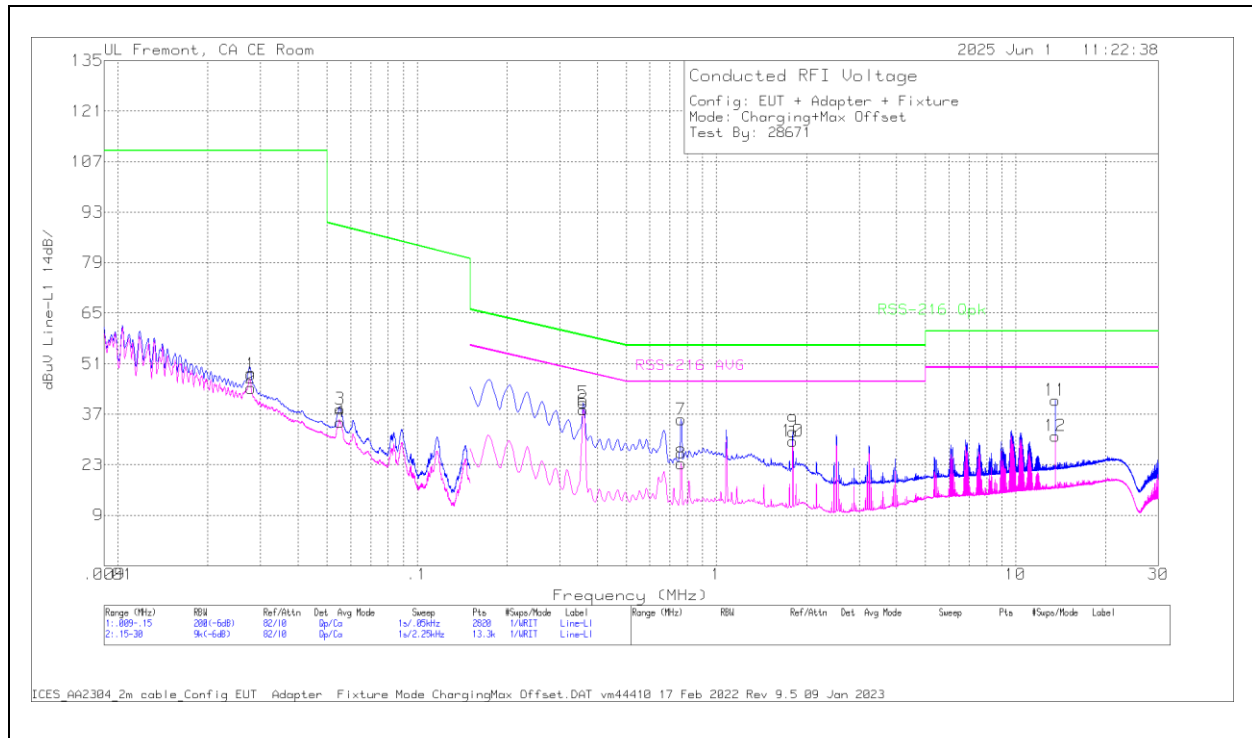
Range 3: Line-L2 .15 - 30MHz									
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Line 2 C3_C2_Limiter no Pad_UL (dB)	Trns Limiter (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)
14	.0255	22.99	Ca	1.1	10.9	10.8	45.79	-	-
16	.1278	17.91	Ca	.1	9.4	9.5	36.91	-	-
13	.0255	26.71	Qp	1.1	10.9	10.8	49.51	110	-60.49
15	.1278	17.51	Qp	.1	9.4	9.5	36.51	81.46	-44.95

Range 4: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Line 2 C3_C2_Limiter no Pad_UL (dB)	Trns Limiter (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)	RSS-216 AVG (dBuV)	Margin (dB)
18	.384	8.21	Ca	0	9.3	9.4	26.91	-	-	48.19	-21.28
20	.6383	7.93	Ca	0	9.3	9.4	26.63	-	-	46	-19.37
22	1.4055	8.9	Ca	0	9.4	9.4	27.7	-	-	46	-18.3
24	3.2033	4.58	Ca	0	9.4	9.4	23.38	-	-	46	-22.62
17	.384	16.43	Qp	0	9.3	9.4	35.13	58.19	-23.06	-	-
19	.6383	13.11	Qp	0	9.3	9.4	31.81	56	-24.19	-	-
21	1.4055	11.84	Qp	0	9.4	9.4	30.64	56	-25.36	-	-
23	3.2033	7.87	Qp	0	9.4	9.4	26.67	56	-29.33	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

11.3. CONFIGURATION 3: OPERATING MODE W/ LOAD #2

LINE 1 RESULTS

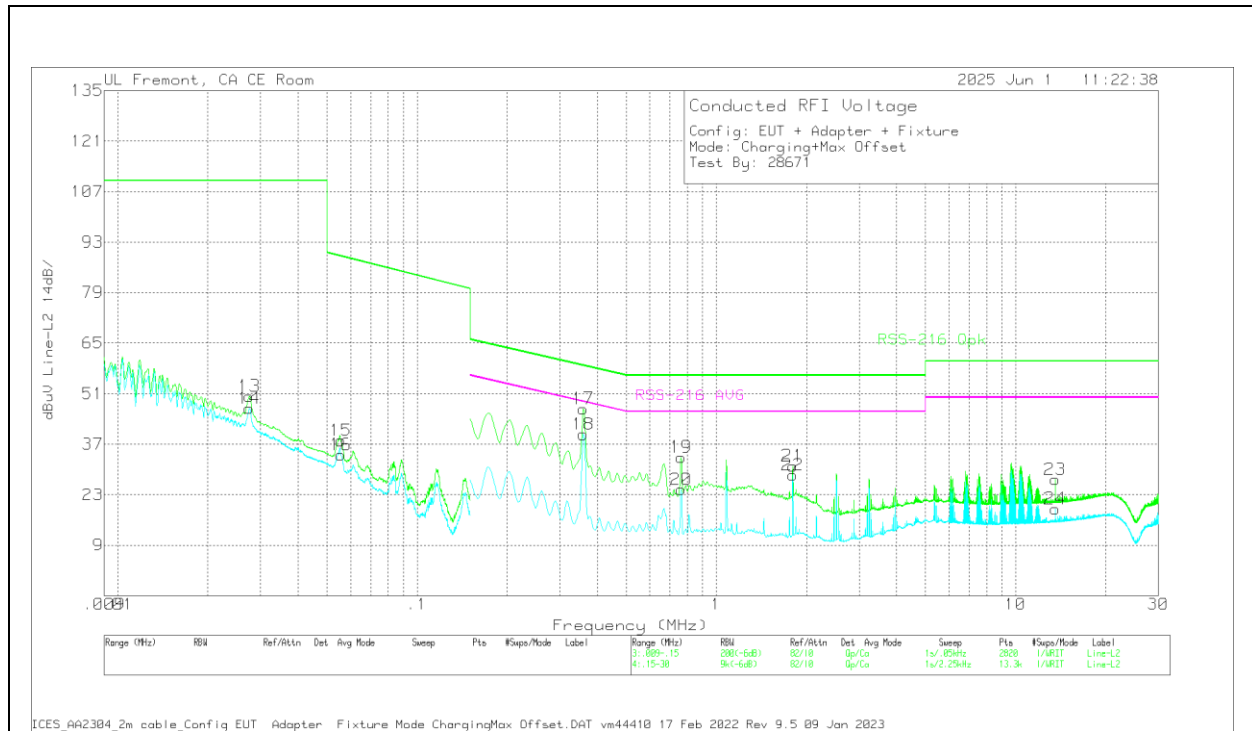


DATA

Range 1: Line-L1 .15 - 30MHz									
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Line 1 C3_C1_Limiter no Pad_UL (dB)	Trns Limiter (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)
2	.0279	21.87	Ca	1	10.7	10.7	44.27	-	-
4	.0554	14.72	Ca	.3	9.9	9.9	34.82	-	-
1	.0279	25.69	Qp	1	10.7	10.7	48.09	110	-61.91
3	.0554	18.33	Qp	.3	9.9	9.9	38.43	89.07	-50.64

Range 2: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Line 1 C3_C1_Limiter no Pad_UL (dB)	Trns Limiter (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)	RSS-216 AVG (dBuV)	Margin (dB)
6	.3593	19.38	Ca	0	9.4	9.4	38.18	-	-	48.75	-10.57
8	.762	4.53	Ca	0	9.4	9.4	23.33	-	-	46	-22.67
10	1.7993	10.77	Ca	0	9.4	9.4	29.57	-	-	46	-16.43
12	13.56	11.88	Ca	.1	9.5	9.5	30.98	-	-	50	-19.02
5	.3593	21.38	Qp	0	9.4	9.4	40.18	58.75	-18.57	-	-
7	.762	16.76	Qp	0	9.4	9.4	35.56	56	-20.44	-	-
9	1.7993	13.39	Qp	0	9.4	9.4	32.19	56	-23.81	-	-
11	13.56	21.76	Qp	.1	9.5	9.5	40.86	60	-19.14	-	-

LINE 2 RESULTS



DATA

Range 3: Line-L2 .15 - 30MHz									
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Line 2 C3_C2_Limiter no Pad_UL (dB)	Trns Limiter (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)
14	.0275	24.32	Ca	1	10.8	10.8	46.92	-	-
16	.0556	13.96	Ca	.3	9.9	9.9	34.06	-	-
13	.0275	27.67	Qp	1	10.8	10.8	50.27	110	-59.73
15	.0556	17.89	Qp	.3	9.9	9.9	37.99	89.03	-51.04

Range 4: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Line 2 C3_C2_Limiter no Pad_UL (dB)	Trns Limiter (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)	RSS-216 AVG (dBuV)	Margin (dB)
18	.3593	21.04	Ca	0	9.3	9.4	39.74	-	-	48.75	-9.01
20	.762	5.71	Ca	0	9.3	9.4	24.41	-	-	46	-21.59
22	1.7993	9.62	Ca	0	9.4	9.4	28.42	-	-	46	-17.58
24	13.56	-.02	Ca	.1	9.5	9.5	19.08	-	-	50	-30.92
17	.3593	28.08	Qp	0	9.3	9.4	46.78	58.75	-11.97	-	-
19	.762	14.66	Qp	0	9.3	9.4	33.36	56	-22.64	-	-
21	1.7993	12.13	Qp	0	9.4	9.4	30.93	56	-25.07	-	-
23	13.56	8.11	Qp	.1	9.5	9.5	27.21	60	-32.79	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

12. SETUP PHOTOS

Please refer to 15881589-EP1V1 for setup photos.

END OF TEST REPORT