

TEST REPORT

Report Number : 15496224-E19V3

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

Model : A3256 (Parent)
A3522, A3523, A3524 (Variants)

FCC ID : BCG-E8949A (Parent)
BCG-E8957A, BCG-E8958A, BCG-E8959A (Variants)

IC : 579C-E8949A (Parent)
579C-E8957A, 579C-E8958A, 579C-E8959A (Variants)

EUT Description : SMARTPHONE

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:
2025-08-13

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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	2025-07-03	Initial Issue	--
V2	2025-07-11	Updated Units in Section 11	Tri Pham
V3	2025-08-13	Updated Section 6.3	Thu Chan

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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	A3256 (Parent) A3522, A3523, A3524 (Variants)
Brand	Apple
FCC ID	BCG-E8949A (Parent) BCG-E8957A, BCG-E8958A, BCG-E8959A (Variants)
IC	579C-E8949A (Parent) 579C-E8957A, 579C-E8958A, 579C-E8959A (Variants)
EUT Description	Smartphone
Serial Number	M2Q9JD6470, FQXN7VTY6W
Sample Receipt Date	May 13, 2025
Date Tested	May 13, 2025 – June 02, 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
<p>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.</p> <p>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.</p> <p>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.</p>	
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
<input checked="" type="checkbox"/>	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
<input checked="" type="checkbox"/>	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
<input type="checkbox"/>	Building 3: 843 Auburn Court, Fremont, CA 94538, USA			
<input checked="" type="checkbox"/>	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			
<input type="checkbox"/>	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 Apple iPhone is a smartphone with cellular GSM, GPRS, EGPRS, WCDMA, LTE, 5G NR1, 5G NR2, IEEE 802.11a/b/g/n/ac/ax/be, Bluetooth (BT), Ultra-Wideband (UWB), Global Positioning System (GPS), Near-Field Communication (NFC), Narrow-Band (NB) UNII, 802.15.4, 802.15.4ab-Narrow Band (NB), Wireless Power Transfer (WPT) and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible.

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 (dB μ V/m)	H-field (3m distance) ISED (dB μ A/m)
360	Operating	-23.17	5.77
--	Standby	-44.18	-12.22

6.3. WORST-CASE CONFIGURATION AND MODE

The EUT is a smartphone which is connected to the AC/DC adapter via USB-C cable and the inductive charging coil to charge WPT accessories (Load). For the entire radiated emissions test, the EUT was investigated on the following configurations:

1. At its natural orientation with EUT on a plastic fixture set at center location on Load
2. At its natural orientation with EUT on a plastic fixture with offset from center location on Load

The worst case was natural orientation with EUT on the fixture with offset from center location on Load.

MODE	DESCRIPTION
Standby	EUT with USB-C to USB-C cable powered by AC/DC Adapter
Operating	EUT with USB-C to USB-C cable powered by AC/DC Adapter & Wireless Charging to the Load (360 kHz)

Three different load levels were investigated: ~10% charged, ~50% charged, and ~90% charged, and it was determined that the ~10% charged configuration was the worst-case scenario set for final test.

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

For below 30MHz testing, investigation was done on three antenna orientations: RX antenna Face-On, Face-Off and Horizontal (parallel to ground). The worst-case configurations were determined on RX antenna Face-On and Face-Off; therefore, all final tests were performed using these two orientations.

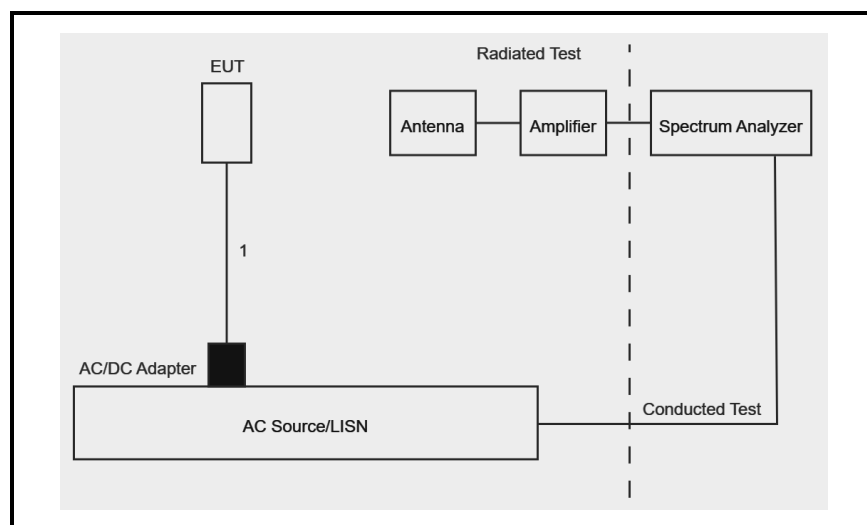
Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 300 m open area test site. Therefore, sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open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

6.4. DESCRIPTION OF TEST SETUP

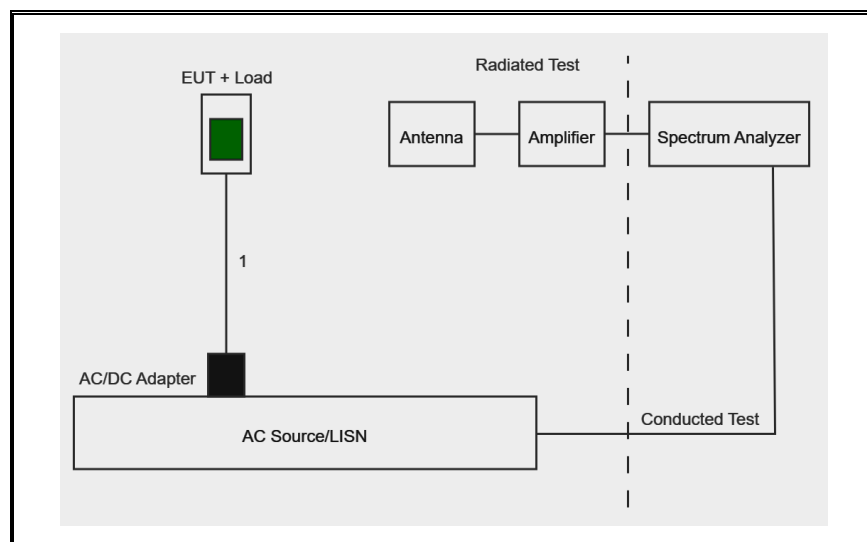
SUPPORT EQUIPMENT & PERIPHERALS LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
AC/DC adapter	Apple	N/A	C4H0313063ZPF4FAZ	N/A
Charging Cable	Apple	N/A	FTLHDB000MV0001061	N/A
WPT Accessory (Load)	Apple	N/A	DND351202Y50NJM1A	N/A

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC	1	USB-C	Un-Shielded	1	None

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
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc.	N9030A	85213	2026-01-31
Antenna, Broadband Hybrid, 30MHz to 3GHz	Sunol Sciences Corp.	JB3	204044	2026-03-31
Antenna, Passive Loop 30Hz – 1MHz	Electro-Metrics	EM-6871	170013	2025-09-30
Antenna, Passive Loop 100kHz – 30MHz	Electro-Metrics	EM-6872	170015	2025-09-30
Link File, @3m, 9kHz-1000MHz Hybrid Path Loss	UL-FR1	Port 0 Factors	232001	2025-06-30
Chamber, Environmental	Cincinnati Sub Zero	ZPHS-8-3.5-SCT/WC	82472	2026-01-31
Sniffer Probe	Electro Metrics	EM-6992	N/A	N/A

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	

Note: For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.

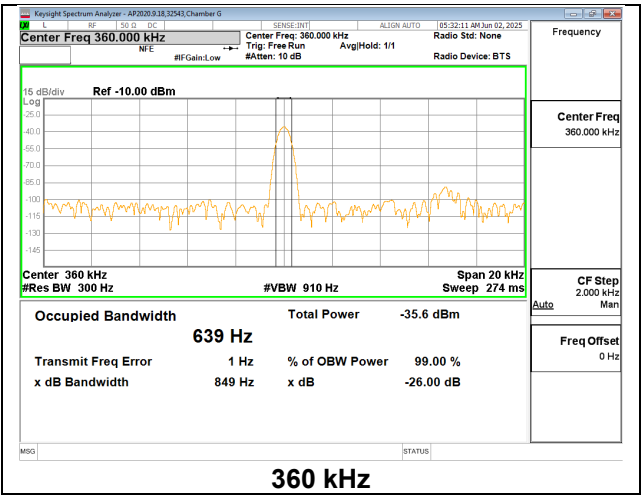
8. OCCUPIED BANDWIDTH

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



9. RADIATED EMISSION TEST RESULTS

9.1. LIMITS AND PROCEDURE

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

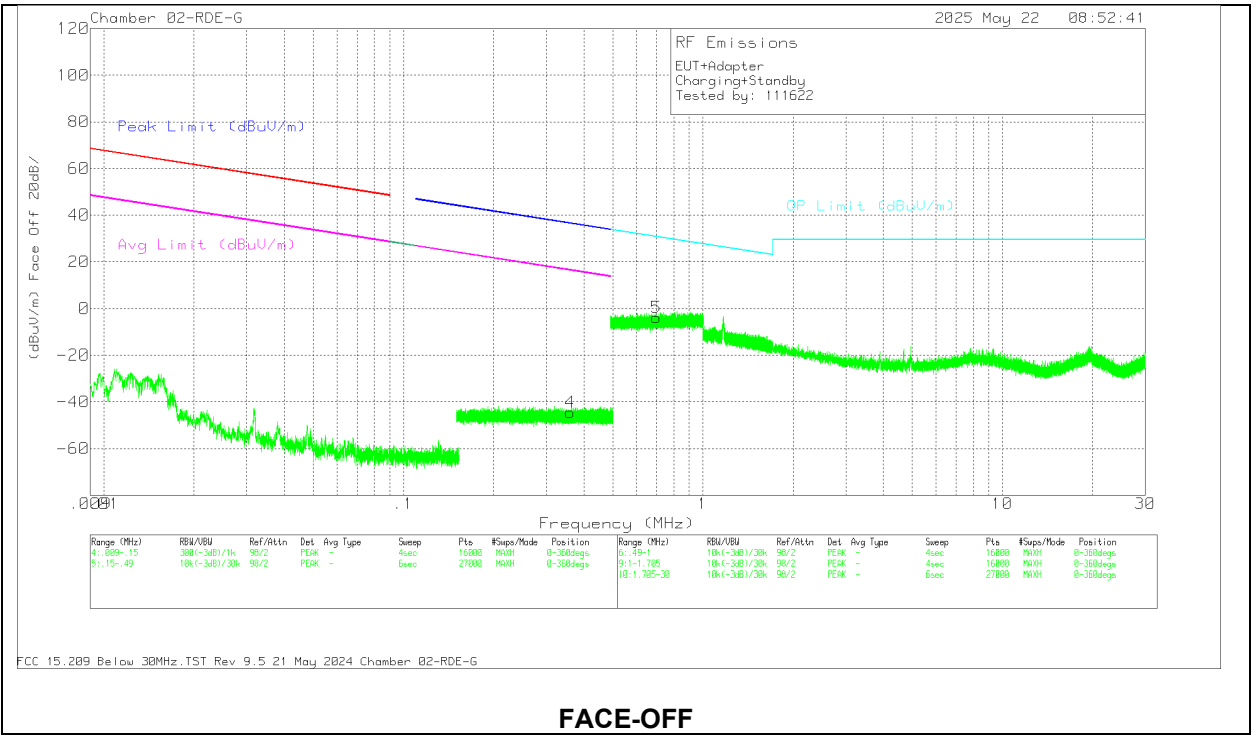
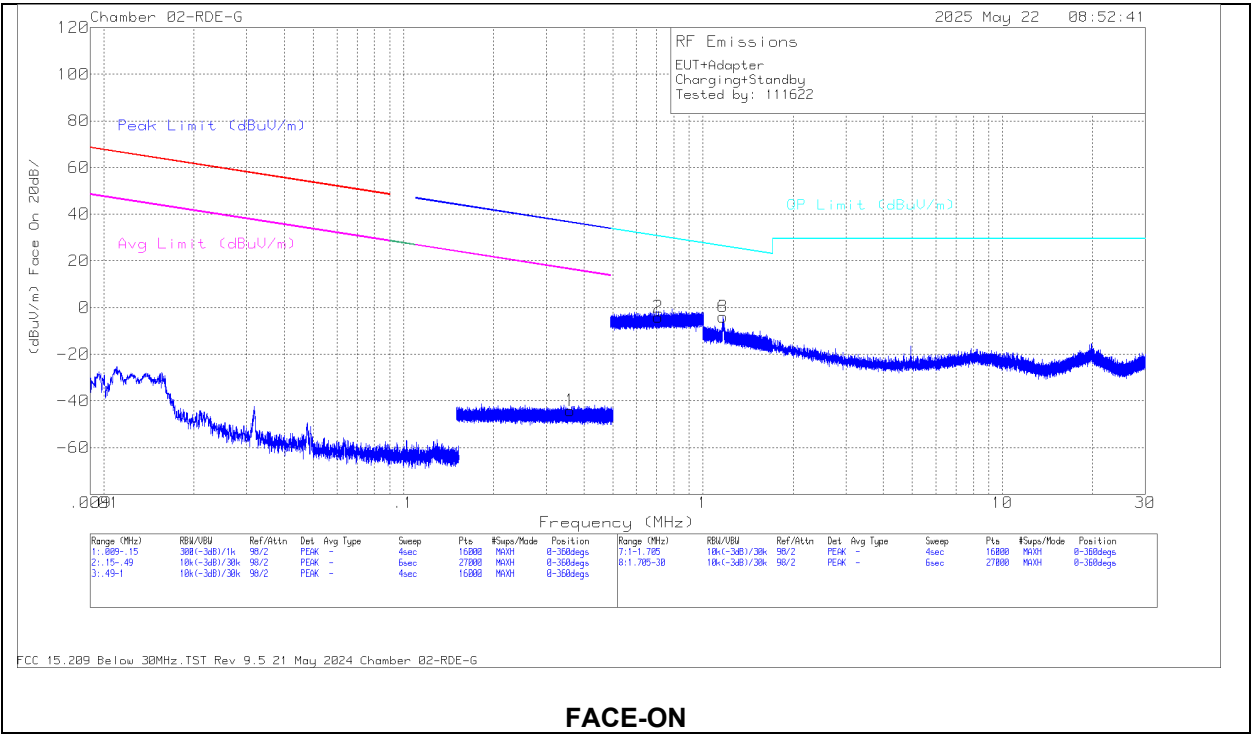
Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

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

RESULTS

9.2. STANDBY MODE

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



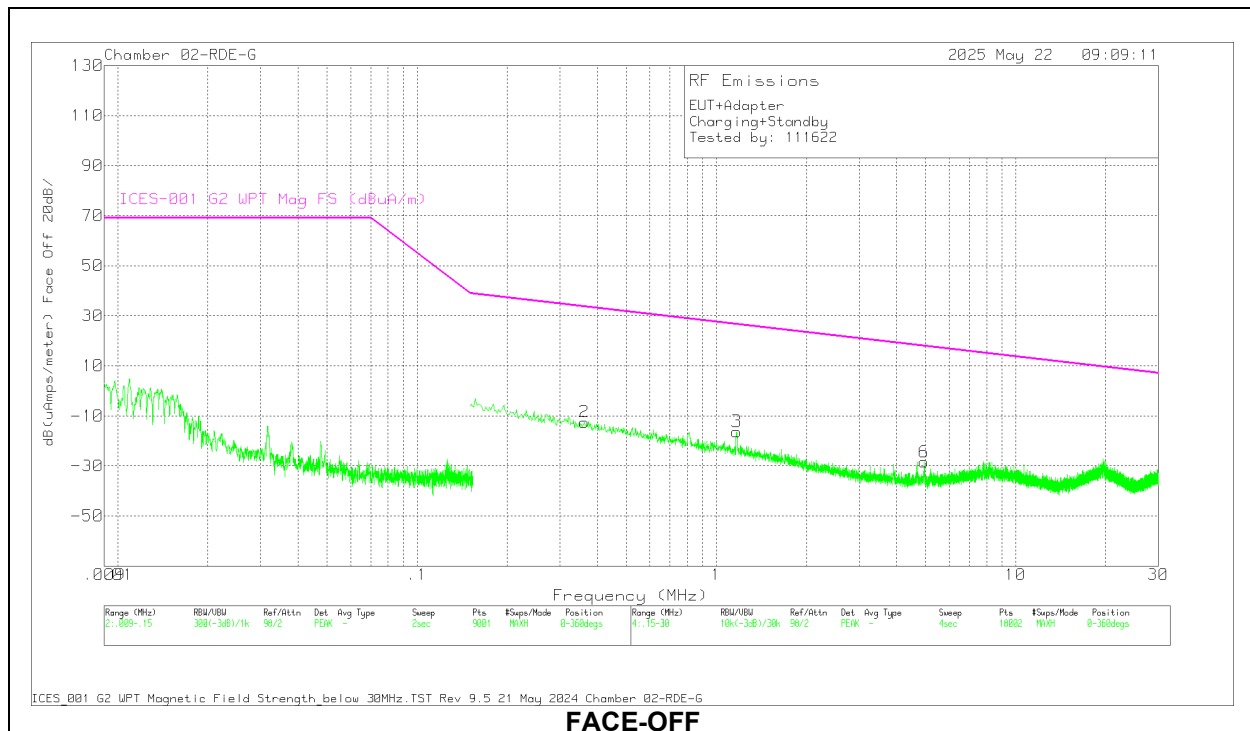
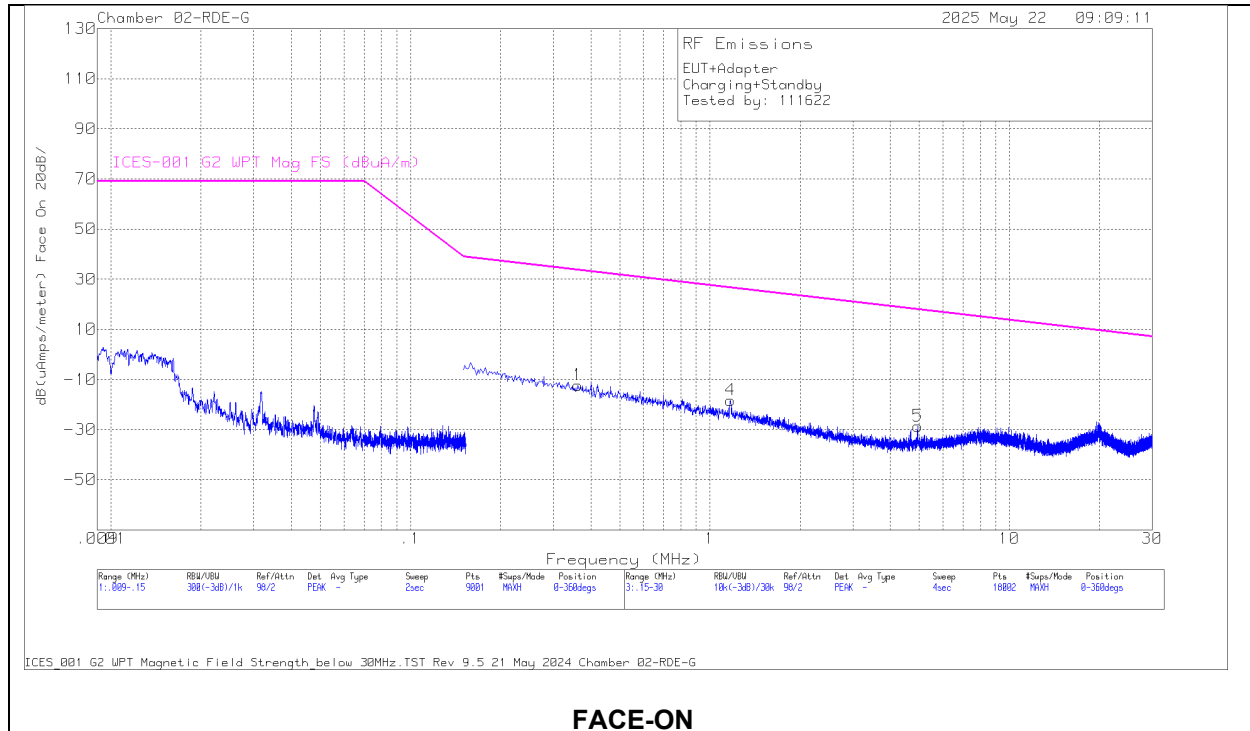
DATA

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)	Antenna Polarity
4	.3601	11.32	Pk	56.2	-32	-80	-44.48	36.48	-80.96	16.48	-60.96	0-360	Face off
1	.3607	11.62	Pk	56.2	-32	-80	-44.18	36.47	-80.65	16.47	-60.65	0-360	Face on

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)	Antenna Polarity
5	.6994	11.64	Pk	56.4	-31.9	-40	-3.86	30.72	-34.58	0-360	Face off
2	.7095	11.42	Pk	56.4	-31.9	-40	-4.08	30.59	-34.67	0-360	Face on

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)	Antenna Polarity
3	1.1683	22.28	Pk	45.8	-32	-40	-3.92	26.27	-30.19	0-360	Face on
6	1.1683	22.28	Pk	45.8	-32	-40	-3.92	26.27	-30.19	0-360	Face off

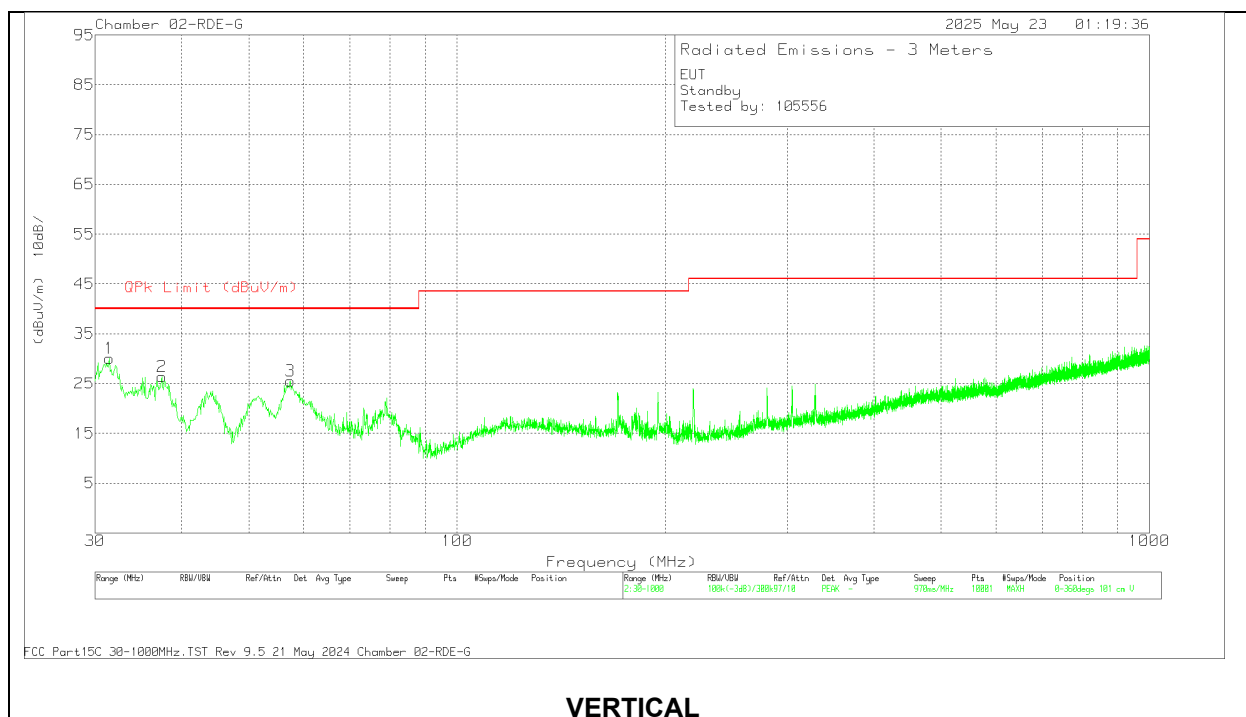
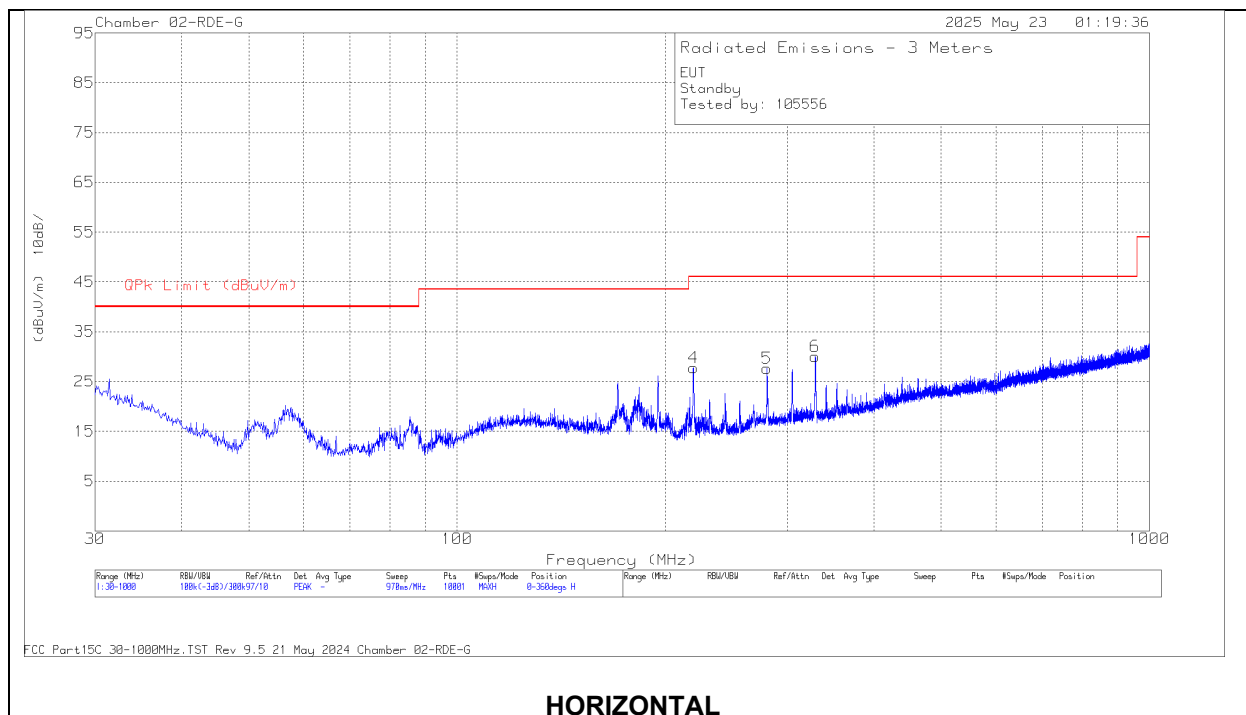
Pk - Peak detector

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 100kHz-30MHz (dB)	Corrected Reading dB(uAmps /meter)	RSS-216 Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)	Antenna Polarity
1	.3622	16.58	Pk	3.3	-32.1	-12.22	33.68	-45.9	0-360	Face on
2	.3622	16.33	Pk	3.3	-32.1	-12.47	33.68	-46.15	0-360	Face on
3	1.1697	21.33	Pk	-5.6	-32	-16.27	26.6	-42.87	0-360	Face on
4	1.1713	19.36	Pk	-5.6	-32	-18.24	26.59	-44.83	0-360	Face off
5	4.94	18.54	Pk	-15.4	-31.7	-28.56	17.89	-46.45	0-360	Face off
6	4.9416	18.71	Pk	-15.4	-31.7	-28.39	17.89	-46.28	0-360	Face off

PK - Peak

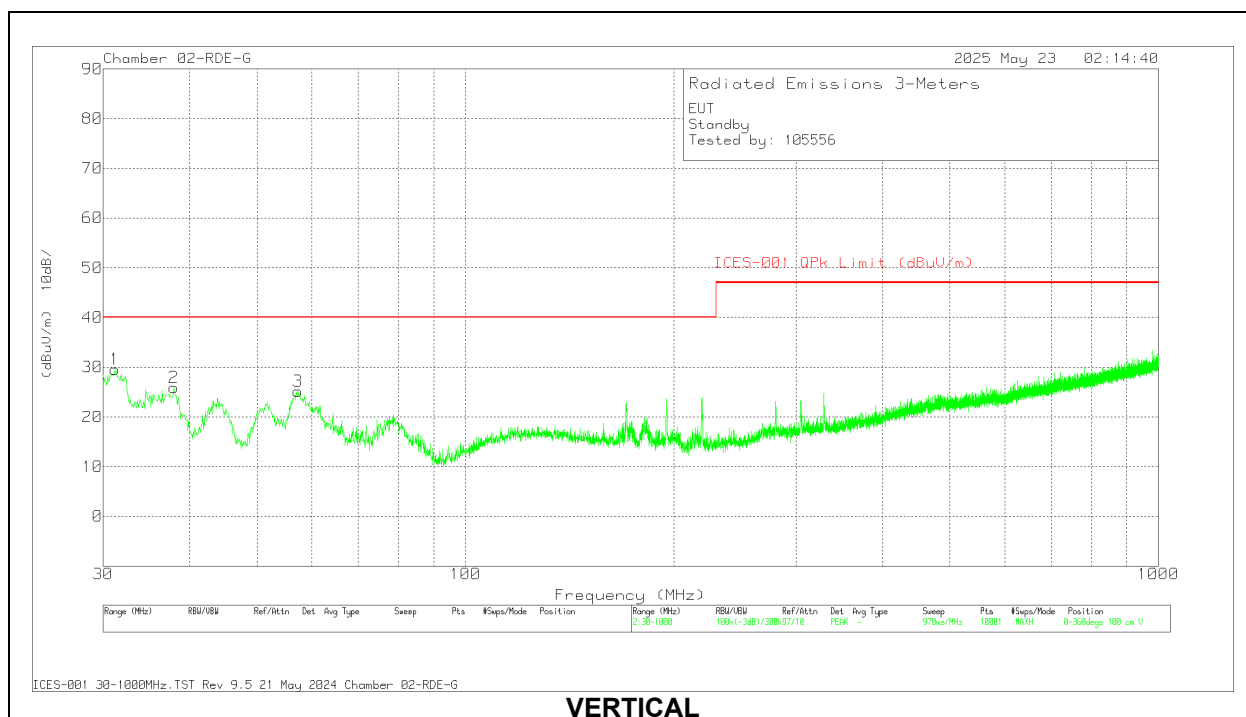
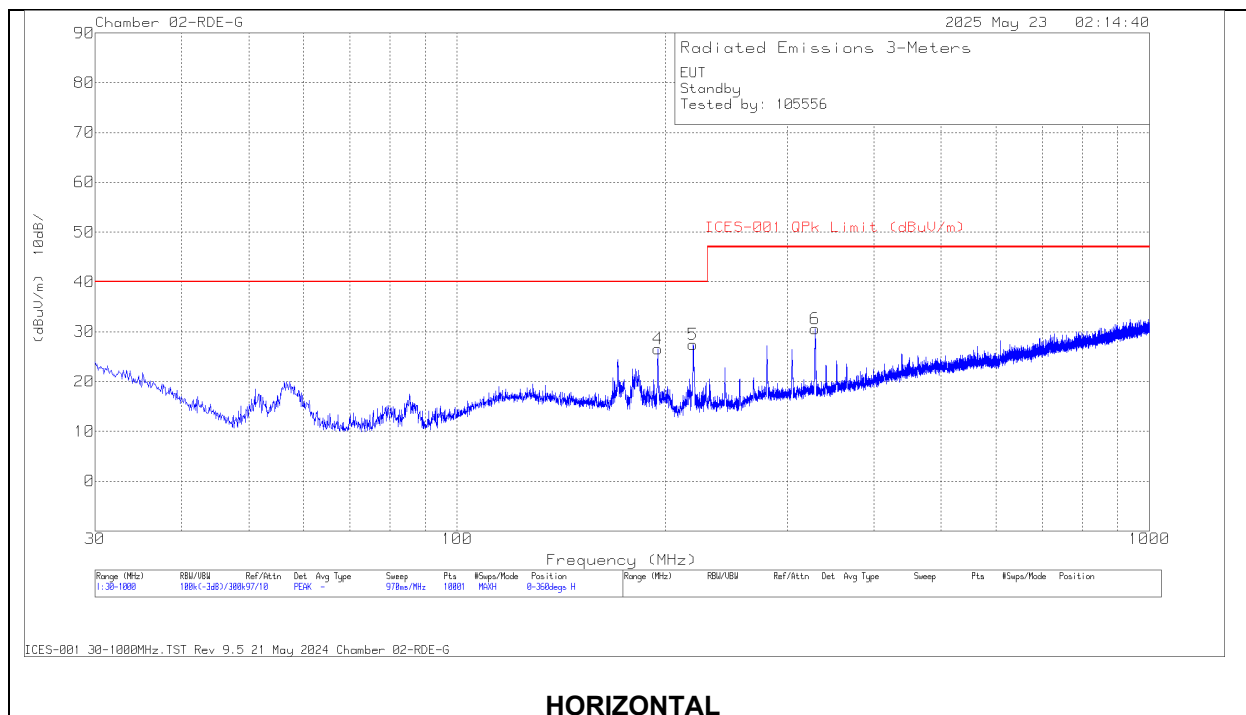
9.2.3. FCC TX SPURIOUS EMISSION (30 - 1000 MHz)

DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	173997 ACF (dB/m)	Hybrid Path 30MHz-1000MHz (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Antenna Polarity
5	* 280.16	34.47	Qp	19.2	-28.7	24.97	46.02	-21.05	183	101	H
6	* 328.801	36.19	Qp	19.9	-28.4	27.69	46.02	-18.33	334	104	H
1	* 37.577	31.7	Qp	21.4	-30.9	22.2	40	-17.8	89	119	V
2	31.3547	28.71	Qp	25.8	-31	23.51	40	-16.49	21	115	V
3	57.5364	37.61	Qp	13.2	-30.7	20.11	40	-19.89	47	119	V
4	219.435	39.96	Qp	16.5	-29.2	27.26	46.02	-18.76	120	132	H

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

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)	Hybrid Path 30MHz-1000MHz (dB)	Corrected Reading (dBuV/m)	ICES-001 QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Antenna Polarity
1	31.2773	28.77	Qp	25.8	-31.0	23.57	40	-16.43	30	106	V
2	37.7452	29.18	Qp	21.3	-30.9	19.58	40	-20.42	255	112	V
3	57.3228	38.27	Qp	13.2	-30.7	20.77	40	-19.23	215	116	V
4	194.975	37.11	Qp	17.6	-29.3	25.41	40	-14.59	136	129	H
5	219.162	39.23	Qp	16.5	-29.2	26.53	40	-13.47	131	146	H
6	328.939	35.26	Qp	19.9	-28.4	26.76	47	-20.24	329	142	H

Qp - Quasi-Peak detector

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

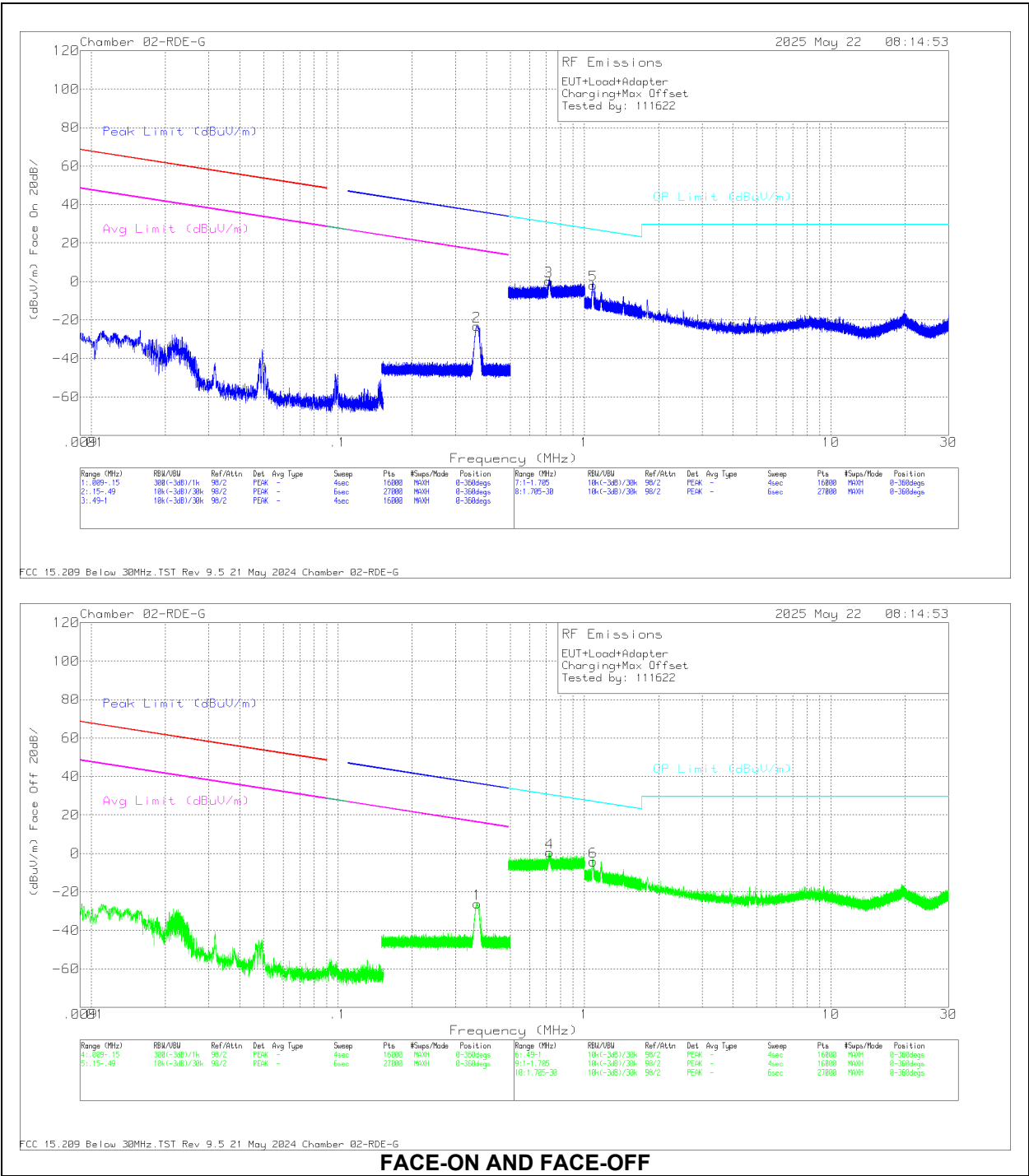
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	173997 ACF (dB/m)	Hybrid Path 30MHz-1000MHz (dB)	Dist Corr 10m (dB)	Corrected Reading (dBuV/m)	RSS-216 QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Antenna Polarity
1	31.2773	28.77	Qp	25.8	-31.0	-10.46	13.11	30	-16.89	312	108	V
2	37.7452	29.18	Qp	21.3	-30.9	-10.46	9.12	30	-20.88	10	101	V
3	57.3228	38.27	Qp	13.2	-30.7	-10.46	10.31	30	-19.69	61	103	V
4	194.975	37.11	Qp	17.6	-29.3	-10.46	14.95	30	-15.05	141	141	H
5	219.162	39.23	Qp	16.5	-29.2	-10.46	16.07	30	-13.93	116	125	H
6	328.939	35.26	Qp	19.9	-28.4	-10.46	16.30	37	-20.70	314	101	H

Qp - Quasi-Peak detector

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

9.3. OPERATING MODE

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



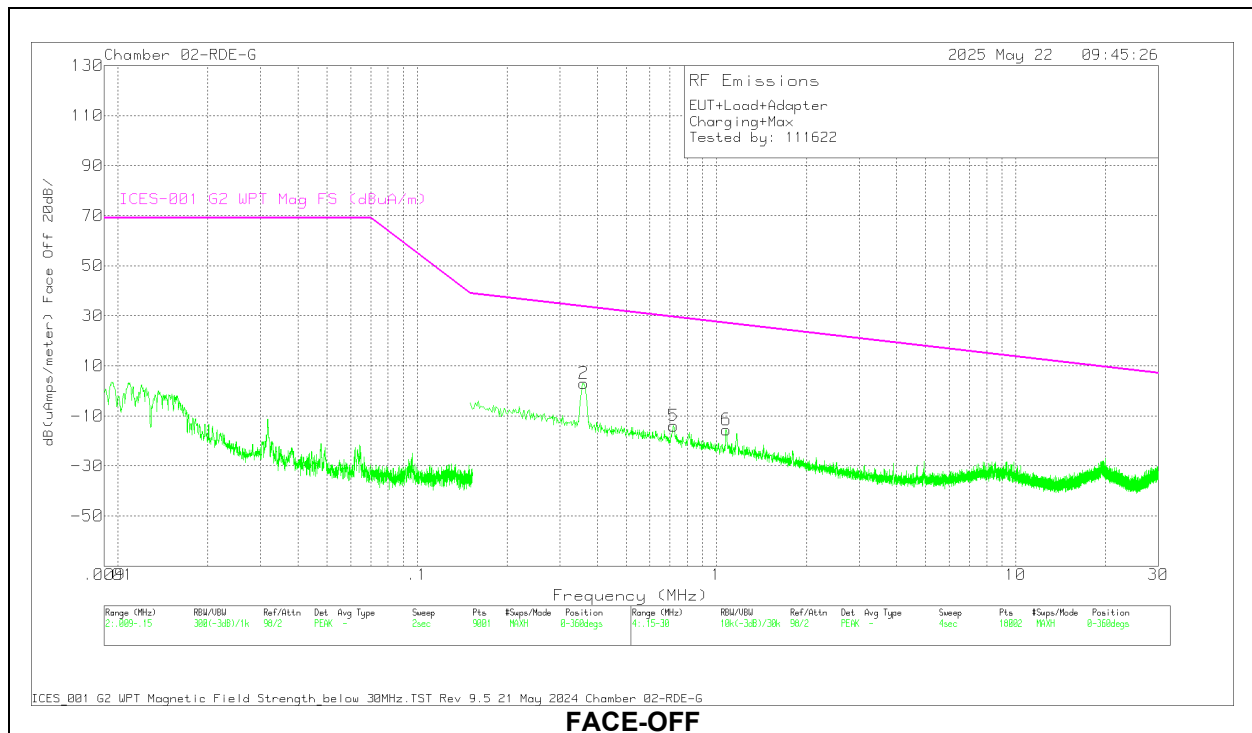
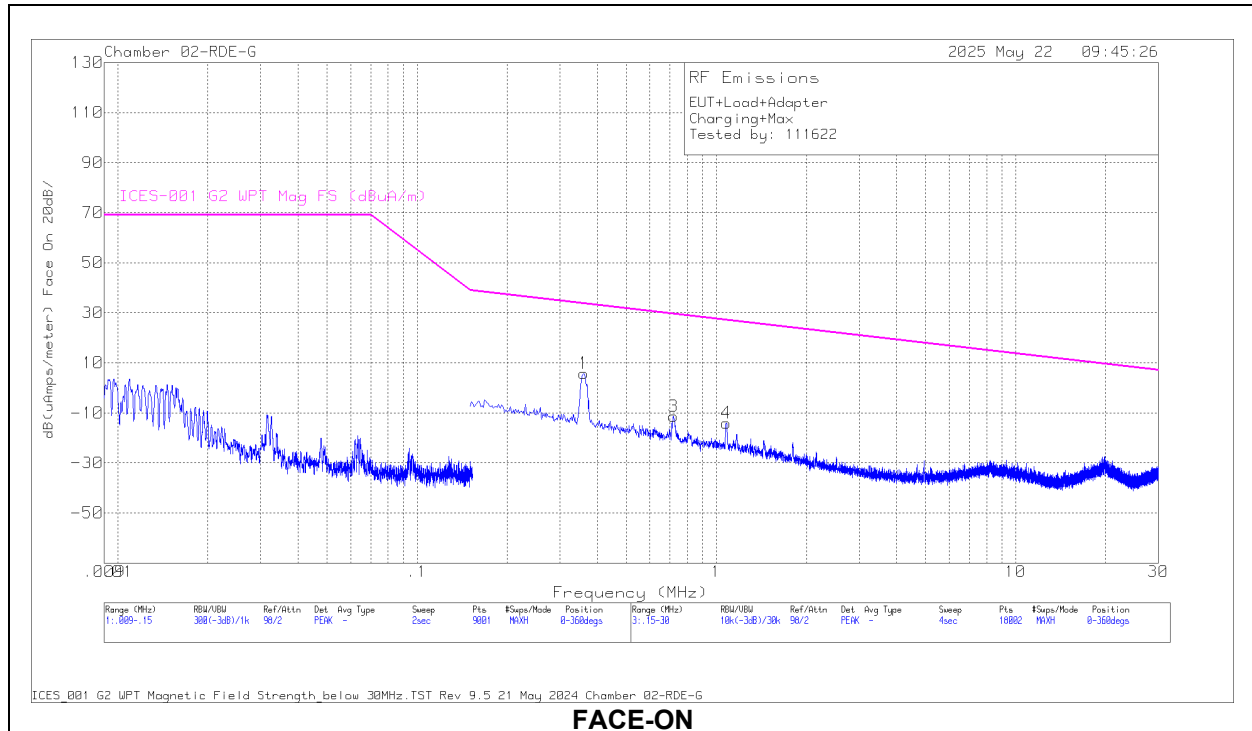
DATA

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)	Antenna Polarity
2	.3663	32.63	Pk	56.2	-32	-80	-23.17	36.33	-59.5	16.33	-39.5	0-360	Face on
1	.3682	29.65	Pk	56.2	-32	-80	-26.15	36.29	-62.44	16.29	-42.44	0-360	Face off

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)	Antenna Polarity
3	.7163	15.71	Pk	56.4	-31.9	-40	.21	30.51	-30.3	0-360	Face on
4	.7235	15.95	Pk	56.4	-31.9	-40	.45	30.43	-29.98	0-360	Face off

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)	Antenna Polarity
6	1.0841	21.51	Pk	46.3	-32	-40	-4.19	26.92	-31.11	0-360	Face off
5	1.0843	23.85	Pk	46.3	-32	-40	-1.85	26.92	-28.77	0-360	Face on

Pk - Peak detector

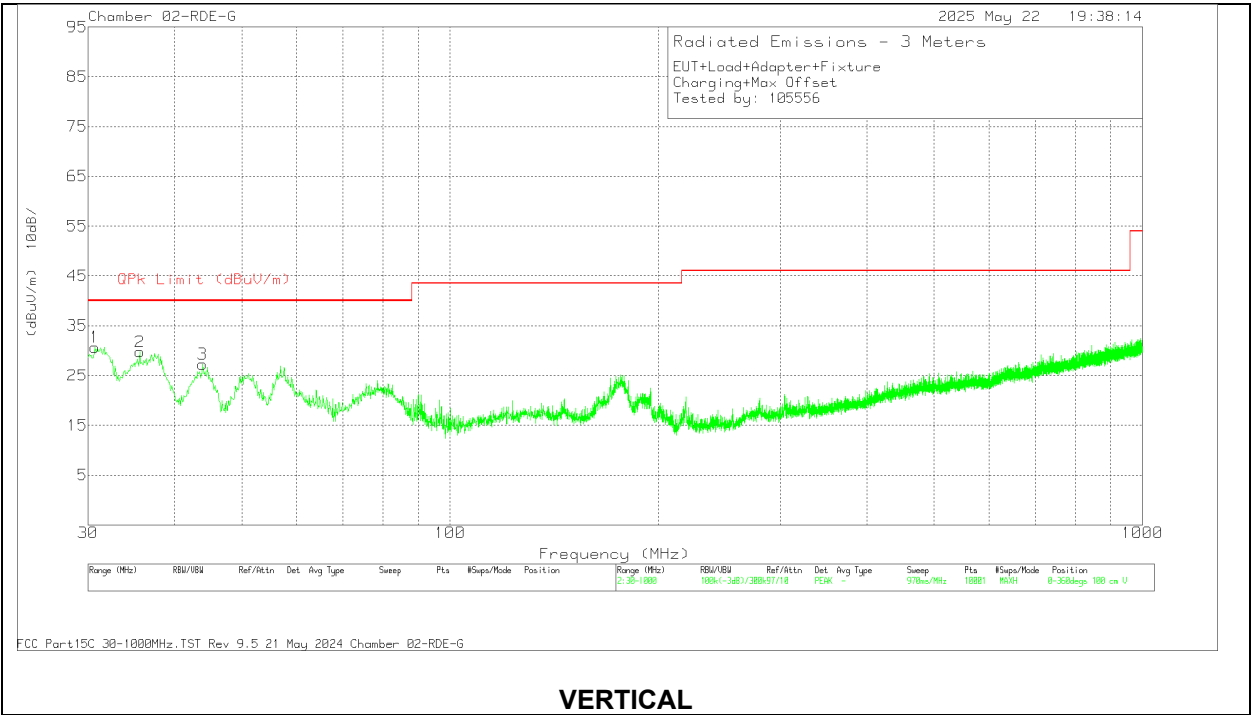
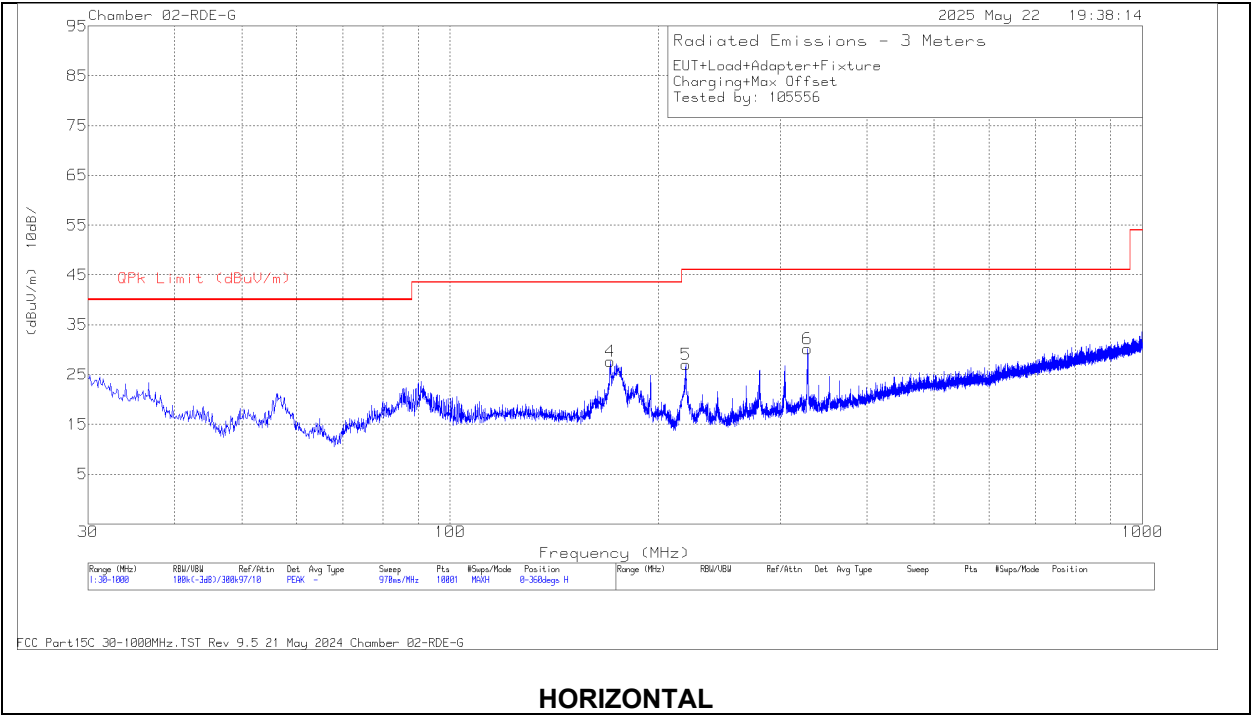
9.3.2. ISED TX FUNDAMENTAL & SPURIOUS EMISSIONS (9 kHz - 30 MHz)

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 Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)	Antenna Polarity
1	.3606	34.47	Pk	3.4	-32.1	5.77	33.7	-27.93	0-360	Face on
2	.3606	31.77	Pk	3.4	-32.1	3.07	33.7	-30.63	0-360	Face off
3	.7187	22.83	Pk	-2.2	-32	-11.37	29.54	-40.91	0-360	Face on
5	.7204	20.27	Pk	-2.2	-32	-13.93	29.52	-43.45	0-360	Face off
4	1.0785	23.03	Pk	-5.1	-32	-14.07	27.09	-41.16	0-360	Face on
6	1.0785	21.58	Pk	-5.1	-32	-15.52	27.09	-42.61	0-360	Face off

Pk - Peak detector

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

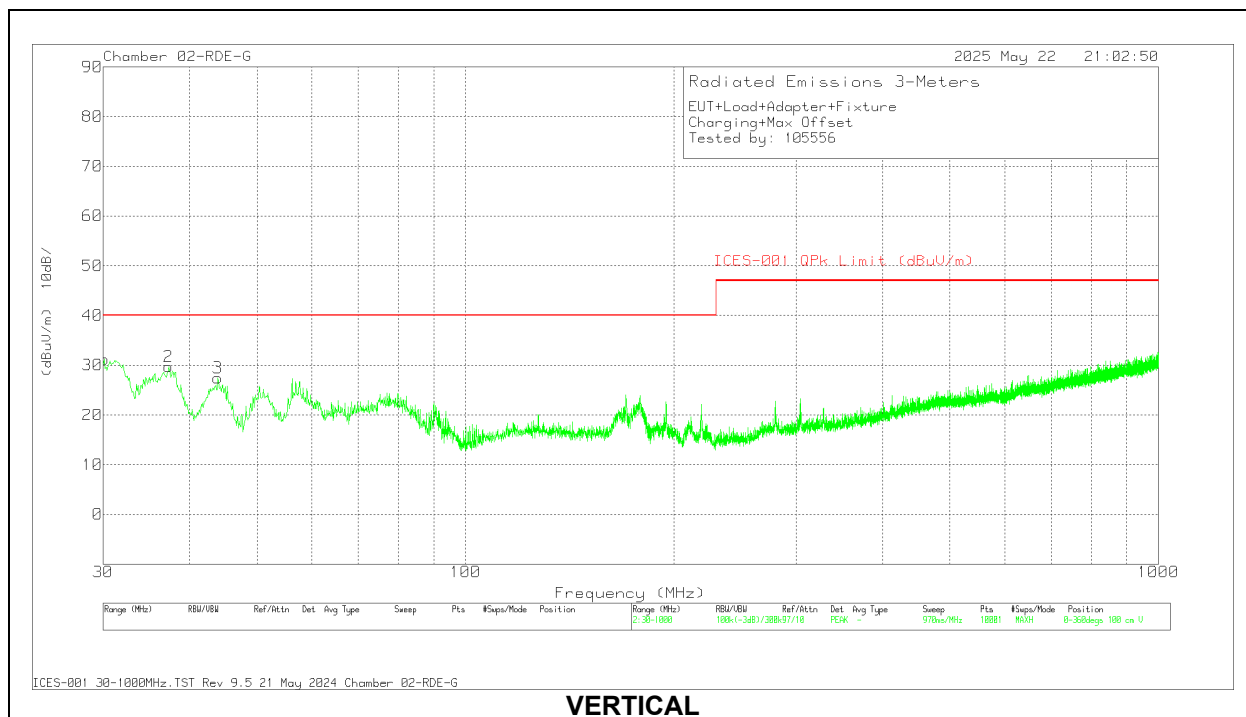
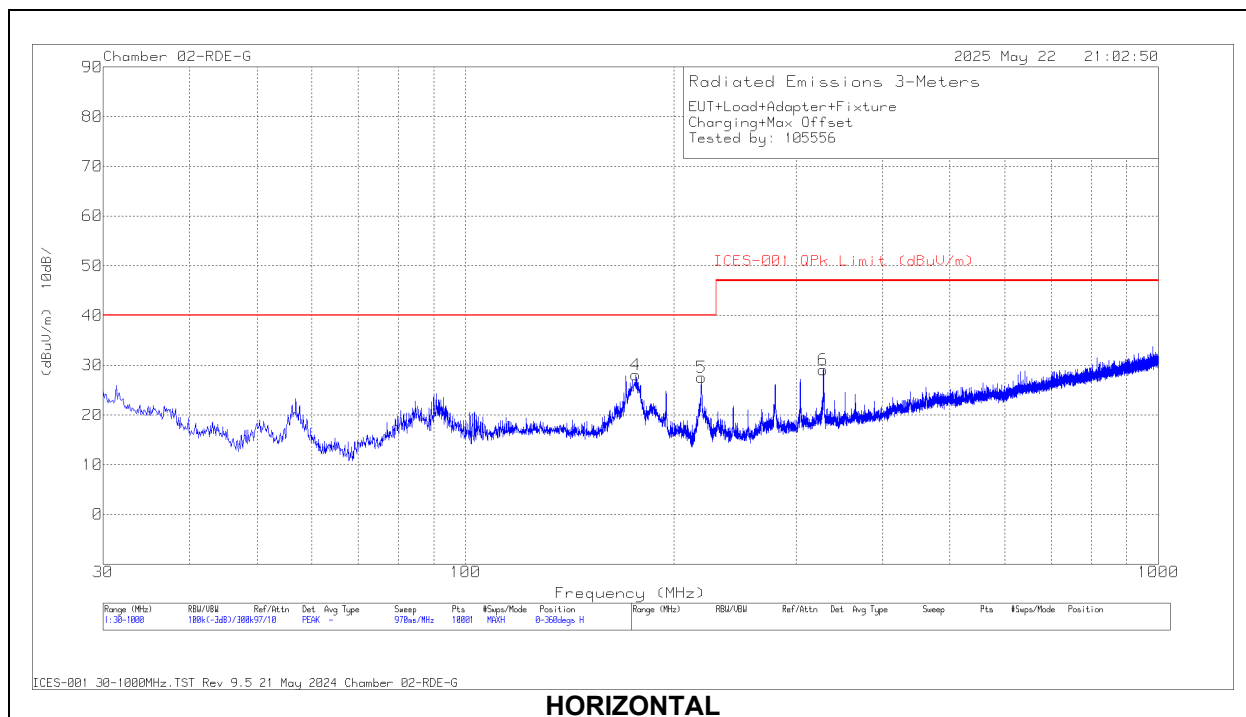


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	173997 ACF (dB/m)	Hybrid Path 30MHz-1000MHz (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Antenna Polarity
4	* 170.457	37.38	Qp	17.6	-29.5	25.48	43.52	-18.04	144	120	H
6	* 328.467	37.07	Qp	19.9	-28.4	28.57	46.02	-17.45	317	106	H
1	30.7342	30.82	Qp	26.2	-31	26.02	40	-13.98	317	101	V
2	35.8564	29.9	Qp	22.8	-31	21.7	40	-18.3	358	126	V
3	43.931	38.24	Qp	16.8	-30.8	24.24	40	-15.76	106	108	V
5	218.895	37.7	Qp	16.5	-29.2	25	46.02	-21.02	127	103	H

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

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)	Hybrid Path 30MHz-1000MHz (dB)	Corrected Reading (dBuV/m)	ICES-001 QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Antenna Polarity
1	30.0553	29.59	Qp	26.8	-31	25.39	40	-14.61	312	108	V
2	37.4368	35.72	Qp	21.5	-30.9	26.32	40	-13.68	10	101	V
3	43.9108	38.2	Qp	16.9	-30.8	24.3	40	-15.7	61	103	V
4	176.093	36.52	Qp	17.3	-29.5	24.32	40	-15.68	141	141	H
5	219.034	39.58	Qp	16.5	-29.2	26.88	40	-13.12	116	125	H
6	328.372	37.07	Qp	19.9	-28.4	28.57	47	-18.43	314	101	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	30.0553	29.59	Qp	26.8	-31	-10.46	14.93	30	-15.07	312	108	V
2	37.4368	35.72	Qp	21.5	-30.9	-10.46	15.86	30	-14.14	10	101	V
3	43.9108	38.2	Qp	16.9	-30.8	-10.46	13.84	30	-16.16	61	103	V
4	176.093	36.52	Qp	17.3	-29.5	-10.46	13.86	30	-16.14	141	141	H
5	219.034	39.58	Qp	16.5	-29.2	-10.46	16.42	30	-13.58	116	125	H
6	328.372	37.07	Qp	19.9	-28.4	-10.46	18.11	37	-18.89	314	101	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:	27700	Date:	2025-05-28
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	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)						
Outdoor	+50°C	3.8Vdc (normal)	359.99953	21.850	359.99177	21.580	360.00840	21.450	360.00828	22.080	22.080	-16.480	5.600	33.7	Yes	Pass
	+20°C (Normal)		360.00938	22.250	360.00004	22.200	360.00946	22.140	360.00012	22.110	22.250	-16.480	5.770		Yes	Pass
	-20°C		360.00034	23.900	360.00067	23.850	360.00096	23.920	360.00120	22.230	23.920	-16.480	7.440		Yes	Pass
Outdoor/ Indoor	+20°C	3.23Vdc (85%)	359.99973	21.370	359.99998	21.360	360.00003	21.350	360.00008	21.340	21.370	-16.480	4.890	33.7	Yes	Pass
		4.37Vdc (115%)	360.00118	24.440	360.00109	24.470	360.00094	24.590	360.00076	24.710	24.710	-16.480	8.230		Yes	Pass

*Note: Field strength at 3m at nominal temperature of 20°C was 5.77dBuA/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.

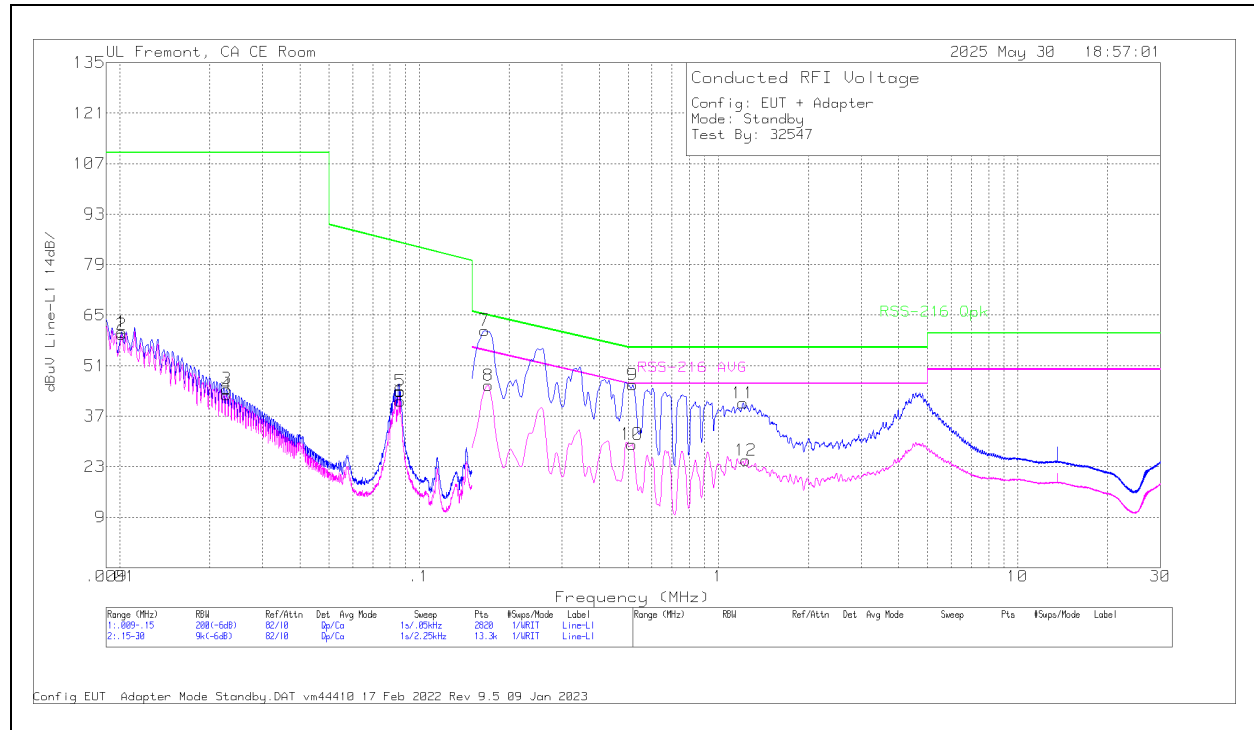
Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

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

11.1. STANDBY MODE

LINE 1 RESULTS

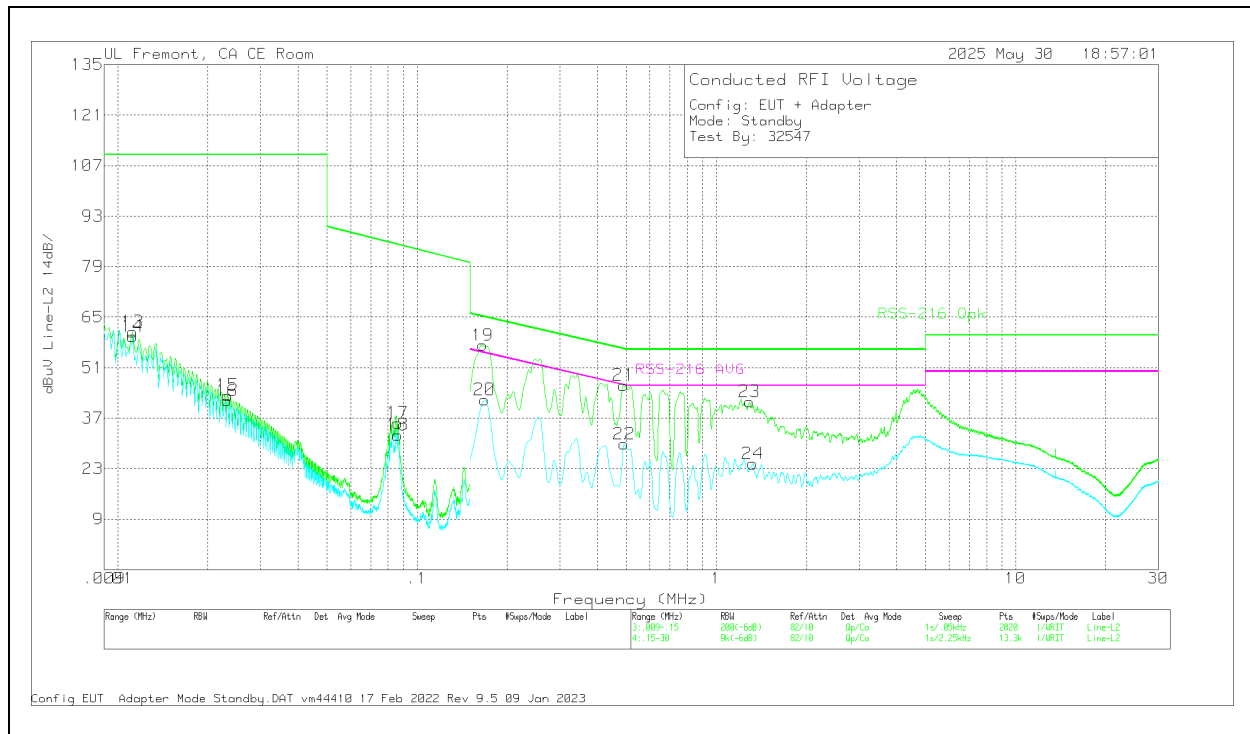


DATA

Trace Markers

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	.0102	30.65	Ca	4.5	12	12.5	59.65	-	-
4	.0228	19.7	Ca	1.4	11	10.8	42.9	-	-
6	.0865	21.78	Ca	.2	9.6	9.6	41.18	-	-
1	.0102	31.29	Qp	4.5	12	12.5	60.29	110	-49.71
3	.0227	21.37	Qp	1.4	11	10.8	44.57	110	-65.43
5	.0865	24.49	Qp	.2	9.6	9.6	43.89	85.01	-41.12

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)
8	.1703	26.51	Ca	.1	9.4	9.5	45.51	-	-	54.95	-9.44
10	.5145	10.62	Ca	0	9.3	9.3	29.22	-	-	46	-16.78
12	1.2345	5.96	Ca	0	9.4	9.4	24.76	-	-	46	-21.24
7	.1658	41.73	Qp	.1	9.4	9.5	60.73	65.17	-4.44	-	-
9	.5168	27.12	Qp	0	9.3	9.3	45.72	56	-10.28	-	-
11	1.2098	21.83	Qp	0	9.4	9.4	40.63	56	-15.37	-	-

LINE 2 RESULTS**DATA**

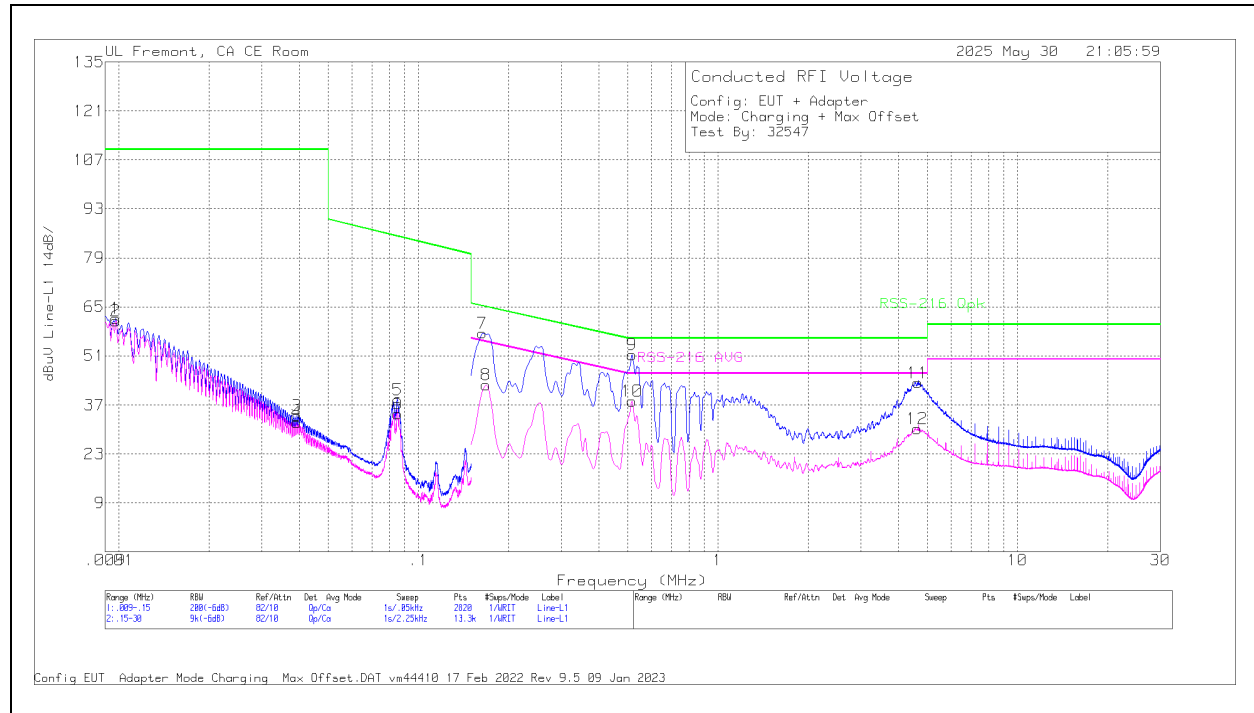
Range 3: Line-L2 .15 - 30MHz									
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Line 2 C3_C2_Limiter no Pad_UL (dB)	Trns Limiter (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)
14	.0112	32.5	Ca	4.1	10.8	12.3	59.7	-	-
16	.0232	18.84	Ca	1.3	10.9	10.8	41.84	-	-
18	.0861	13.04	Ca	.1	9.6	9.6	32.34	-	-
13	.0112	33.7	Qp	4.1	10.8	12.3	60.9	110	-49.1
15	.0233	20.34	Qp	1.3	10.9	10.8	43.34	110	-66.66
17	.0862	16.34	Qp	.1	9.6	9.6	35.64	85.05	-49.41

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)
20	.168	23.09	Ca	.1	9.4	9.5	42.09	-	-	55.06	-12.97
22	.492	11.24	Ca	0	9.3	9.3	29.84	-	-	46.13	-16.29
24	1.3245	5.6	Ca	0	9.4	9.4	24.4	-	-	46	-21.6
19	.1658	38.18	Qp	.1	9.4	9.5	57.18	65.17	-7.99	-	-
21	.4898	27.51	Qp	0	9.3	9.3	46.11	56.17	-10.06	-	-
23	1.2908	22.76	Qp	0	9.4	9.4	41.56	56	-14.44	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

11.2. OPERATING MODE

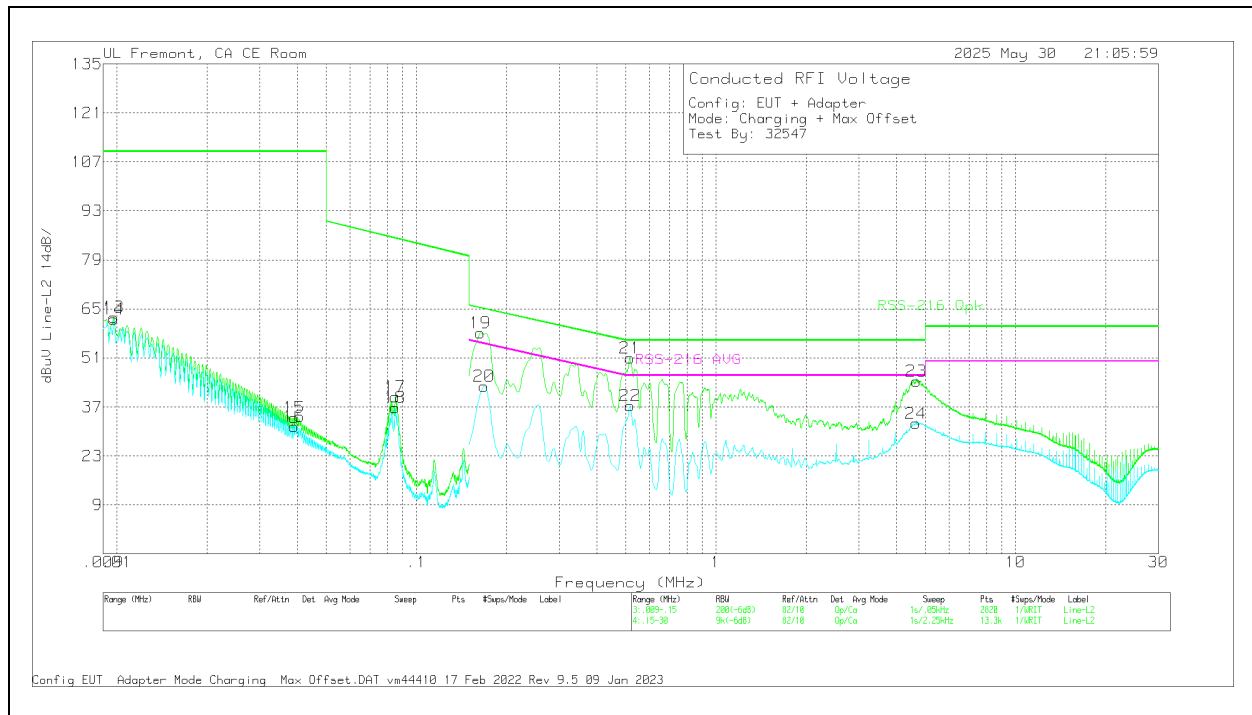
LINE 1 RESULTS



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	.0098	30.05	Ca	4.7	12.9	13.4	61.05	-	-
4	.0393	10.75	Ca	.6	10.3	10.3	31.95	-	-
6	.0852	15.09	Ca	.2	9.6	9.6	34.49	-	-
1	.0098	30.69	Qp	4.7	12.9	13.4	61.69	110	-48.31
3	.0393	12.83	Qp	.6	10.3	10.3	34.03	110	-75.97
5	.0852	18.99	Qp	.2	9.6	9.6	38.39	85.15	-46.76

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)
8	.168	23.74	Ca	.1	9.4	9.5	42.74	-	-	55.06	-12.32
10	.5168	19.47	Ca	0	9.3	9.3	38.07	-	-	46	-7.93
12	4.6343	11.42	Ca	0	9.4	9.4	30.22	-	-	46	-15.78
7	.1635	38.51	Qp	.1	9.4	9.5	57.51	65.28	-7.77	-	-
9	.5168	32.67	Qp	0	9.3	9.3	51.27	56	-4.73	-	-
11	4.6388	24.56	Qp	0	9.4	9.4	43.36	56	-12.64	-	-

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	.0098	31.16	Ca	4.7	12.8	13.4	62.06	-	-	
16	.039	10.38	Ca	.5	10.3	10.3	31.48	-	-	
18	.085	17.43	Ca	.2	9.6	9.6	36.83	-	-	
13	.0098	31.78	Qp	4.7	12.8	13.4	62.68	110	-47.32	
15	.039	12.79	Qp	.5	10.3	10.3	33.89	110	-76.11	
17	.085	20.47	Qp	.2	9.6	9.6	39.87	85.17	-45.3	

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)
20	.168	23.93	Ca	.1	9.4	9.5	42.93	-	-	55.06	-12.13
22	.5168	18.79	Ca	0	9.3	9.3	37.39	-	-	46	-8.61
24	4.6399	13.46	Ca	0	9.4	9.4	32.26	-	-	46	-13.74
19	.1635	39.14	Qp	.1	9.4	9.5	58.14	65.28	-7.14	-	-
21	.5168	32.35	Qp	0	9.3	9.3	50.95	56	-5.05	-	-
23	4.6658	25.56	Qp	0	9.4	9.4	44.36	56	-11.64	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

12. SETUP PHOTOS

Please refer to 15496224-EP1V1 for setup photos.

APPENDIX A – SPOT CHECK EVALUATION

1. SPOT CHECK EVALUATION

1.1. MODEL DIFFERENCES

The manufacturer hereby declares the following for models A3256, A3522, A3523 and A3524.

These models have the same PCB layout, design, common components, antennas, antenna locations and housing cases, except for FR2 is removed from variants and disabled/enabled cellular bands via software as shown below.

Model	FCC ID	IC ID	Feature Difference	Sim Support	Reference Model
A3256	BCG-E8949A	579C-E8949A	-With FR2/LTE/5GNR B14/29/71 -No B11/21 -With UL MIMO (n41/48/77)	eSIM	-
A3522	BCG-E8957A	579C-E8957A	-Without FR2 -Added B11/21 -No UL MIMO	eSIM	A3256
A3523	BCG-E8958A	579C-E8958A	-Without FR2 -No LTE/5GNR B14/29/71 -No LTE B11/21 -No UL MIMO	eSIM+pSIM	
A3524	BCG-E8959A	579C-E8959A	-Without FR2 -No LTE/5GNR B14/29/71 -No LTE B11/21 -With UL MIMO (n41/78/79) -No MSS / 5GNR B53	pSIM+pSIM	

Note:

The spot check plan allows for data reuse from the reference model where the variant model data meets the limits and has not changed by more than the criteria from KDB 484596 D01 v03 equation (4).

$$d_{dBmax}(M_{dB}) = \begin{cases} (3 + M_{dB}/20) \text{ dB} & , \text{ for } 0 \leq M_{dB} \leq 60 \text{ dB} \\ 6 \text{ dB} & , \text{ for } M_{dB} > 60 \text{ dB} \end{cases} \quad (4)$$

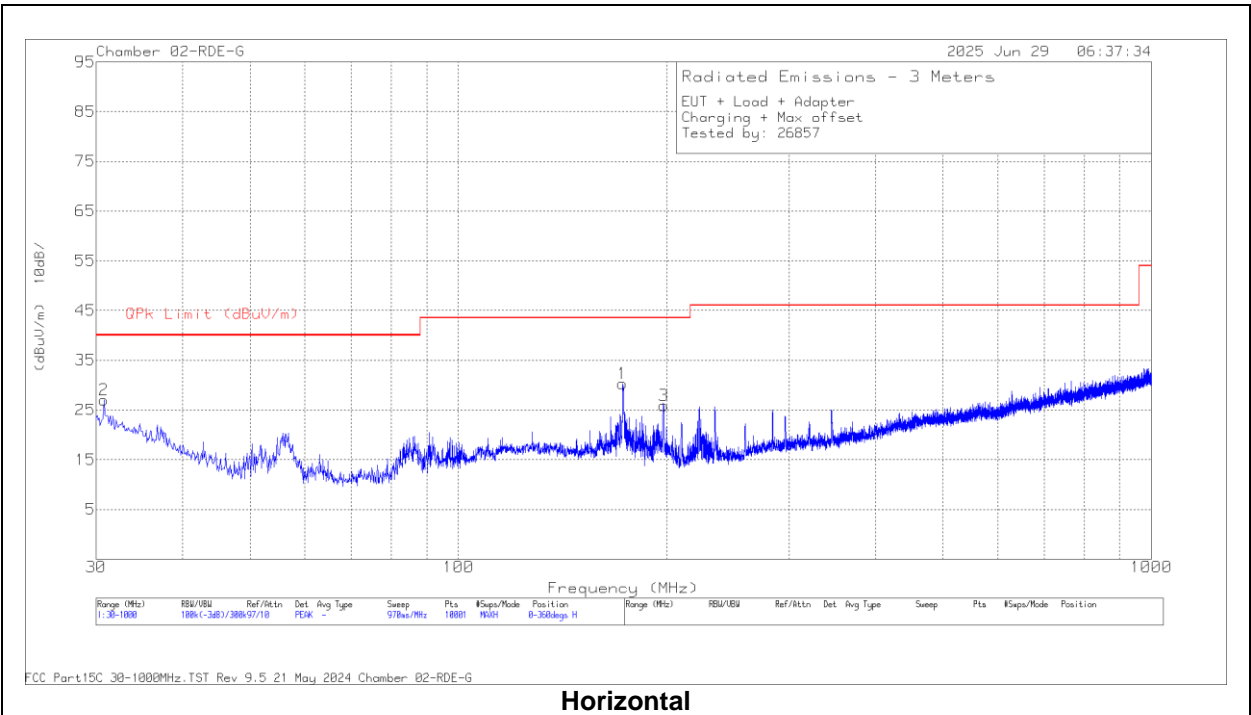
Where: d_{dB} deviation from Reference data, V_{dB} variant spot check level, and R_{dB} measurement level

1.2. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3522

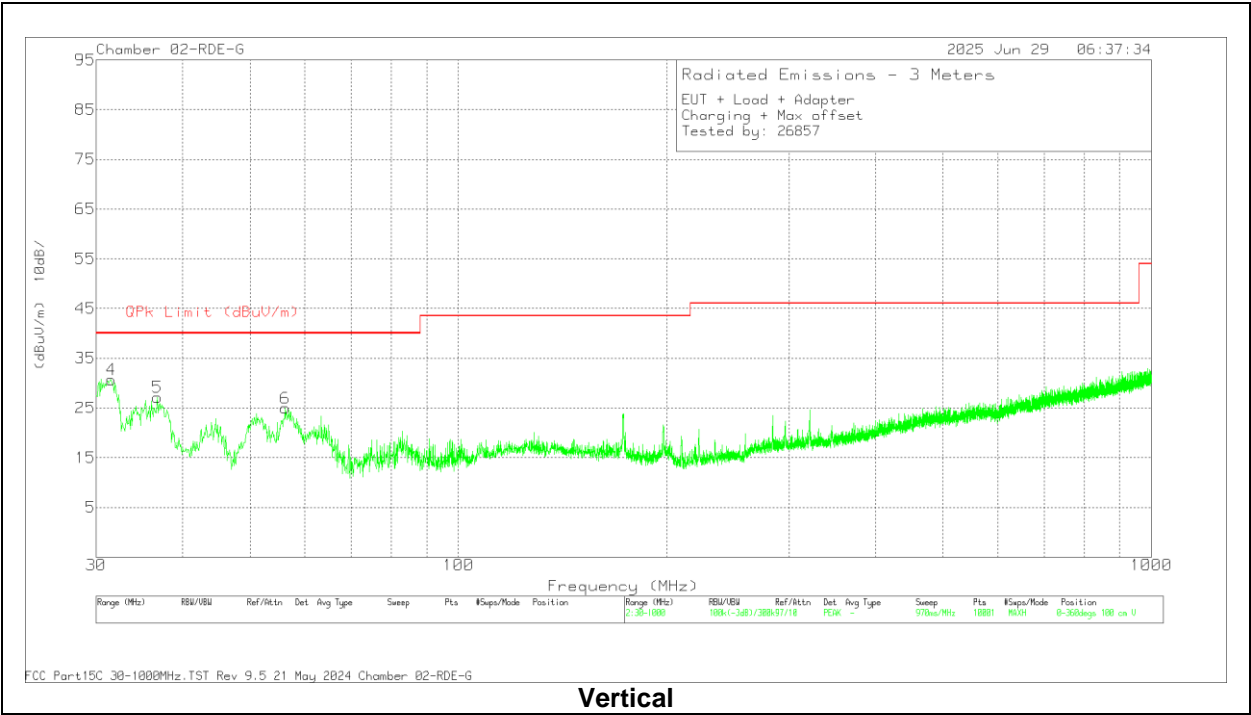
A3522 SPOT CHECK RESULTS								
Equipment Class / Technology	Worst Mode	Test Item	Measured Frequency (MHz)	Original Model: A3256	Sub Model: A3522	Delta (dB or MHz)	Margin	Remarks
				FCC ID : BCG-E8949A IC : 579C-E8949A	FCC ID: BCG-E8957A IC : 579C-E8957A			
DCD / WPT (FCC)	Operating	E-field (300m distance) FCC (dBµV/m)	0.36	-23.17	-27.60	-4.43	-63.93	Note 1
		Out-Of-Band Emissions (dBµV/m)	30 - 1000	26.02	30.80	4.78	-9.20	Note 2

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Full test performed as the delta between reference and variant models exceeds those allowed for data referencing. Please see below for test data.



Horizontal



DATA

Markers	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	* 172.925	42.7	Qp	17.4	-29.3	30.8	43.52	-12.72	140	127	H
2	30.9627	24.1	Qp	26	-31.2	18.9	40	-21.1	71	223	H
4	31.4279	30.84	Qp	25.7	-31.1	25.44	40	-14.56	310	100	V
5	37.471	29.75	Qp	21.5	-31	20.25	40	-19.75	17	104	V
6	56.2	37.17	Qp	13.1	-30.7	19.57	40	-20.43	214	145	V
3	197.303	35.61	Qp	18.1	-29.2	24.51	43.52	-19.01	148	152	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Qp - Quasi-Peak detector

A3522 SPOT CHECK RESULTS								
Equipment Class / Technology	Worst Mode	Test Item	Measured Frequency (MHz)	Original Model: A3256	Sub Model: A3522	Delta (dB or MHz)	Margin	Remarks
				FCC ID : BCG-E8949A IC : 579C-E8949A	FCC ID: BCG-E8957A IC : 579C-E8957A			
DCD / WPT (IC)	Operating	H-field (3m distance) IC (dB μ A/m)	0.36	5.77	2.48	-3.29	-31.22	Note 1
		Out-Of-Band Emissions (dBuV/m)	30 - 1000	26.88	29.46	2.58	-10.54	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

1.3. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3523

A3523 SPOT CHECK RESULTS								
Equipment Class / Technology	Worst Mode	Test Item	Measured Frequency (MHz)	Original Model: A3256	Sub Model: A3523	Delta (dB or MHz)	Margin	Remarks
				FCC ID : BCG-E8949A IC : 579C-E8949A	FCC ID: BCG-E8958A IC : 579C-E8958A			
DCD / WPT (FCC)	Operating	E-field (300m distance) FCC (dB μ V/m)	0.36	-23.17	-29.59	-6.42	-65.92	Note 2
		Out-Of-Band Emissions (dBuV/m)	30 - 1000	26.02	27.41	1.39	-12.59	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596.

The value for the variant model is the maximized signal level across all three device orientations.

A3523 SPOT CHECK RESULTS								
Equipment Class / Technology	Worst Mode	Test Item	Measured Frequency (MHz)	Original Model: A3256	Sub Model: A3523	Delta (dB or MHz)	Margin	Remarks
				FCC ID : BCG-E8949A IC : 579C-E8949A	FCC ID: BCG-E8958A IC : 579C-E8958A			
DCD / WPT (IC)	Operating	H-field (3m distance) IC (dB μ A/m)	0.36	5.77	0.38	-5.39	-33.32	Note 2
		Out-Of-Band Emissions (dBuV/m)	30 - 1000	26.88	27.18	0.30	-12.82	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596.

The value for the variant model is the maximized signal level across all three device orientations.

1.4. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3524

A3524 SPOT CHECK RESULTS								
Equipment Class / Technology	Worst Mode	Test Item	Measured Frequency (MHz)	Original Model: A3256	Sub Model: A3524	Delta (dB or MHz)	Margin	Remarks
				FCC ID : BCG-E8949A IC : 579C-E8949A	FCC ID: BCG-E8959A IC : 579C-E8959A			
DCD / WPT (FCC)	Operating	E-field (300m distance) FCC (dB μ V/m)	0.36	-23.17	-25.41	-2.24	-61.74	Note 1
		Out-Of-Band Emissions (dBuV/m)	30 - 1000	26.02	27.19	1.17	-12.81	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

A3523 SPOT CHECK RESULTS								
Equipment Class / Technology	Worst Mode	Test Item	Measured Frequency (MHz)	Original Model: A3256	Sub Model: A3523	Delta (dB or MHz)	Margin	Remarks
				FCC ID : BCG-E8949A IC : 579C-E8949A	FCC ID: BCG-E8958A IC : 579C-E8958A			
DCD / WPT (IC)	Operating	H-field (3m distance) IC (dB μ A/m)	0.36	5.77	4.14	-1.63	-29.56	Note 1
		Out-Of-Band Emissions (dBuV/m)	30 - 1000	26.88	27.70	0.82	-12.30	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.