

TEST REPORT

Report Number : 16064952-E19V4

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

Model : A3447 (Parent)
A3719, A3720, A3721 (Variants)

FCC ID : BCG-E9188A (Parent)
BCG-E9198A, BCG-E9203A, BCG-E9204A
(Variants)

IC : 579C-E9188A (Parent)
579C-E9198A, 579C-E9203A, 579C-E9204A
(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:

2026/08/06

Prepared by:

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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	07/08/26	Initial Issue	---
V2	07/10/26	Updated Sections	John Bautista
V3	07/20/26	Updated OBW table, section10.4, 13	Tri Pham
V4	08/06/26	Added RX power to 6.2	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	A3447 (Parent) A3719, A3720, A3721 (Variants)
Brand	APPLE
FCC ID	BCG-E9188A (Parent) BCG-E9198A, BCG-E9203A, BCG-E9204A (Variants)
IC	579C-E9188A (Parent) 579C-E9198A, 579C-E9203A, 579C-E9204A (Variants)
EUT Description	Smartphone
SERIAL NUMBER	GCLJ2G9LQN, Q9VCXGR9QJ, T7P1QC4H3C
SAMPLE RECEIPT DATE	2026/06/02
DATE TESTED	JUNE 3, 2026 TO JUNE 24, 2026
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

- ANSI C63.30-2021
- FCC 47 CFR Part 2
- FCC 47 CFR Part R15 Subpart C
- KDB 414788 D01 Radiated Test Site
- ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
- RSS-GEN Issue 5 + A1 + A2
- RSS-216 Issue 3

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 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. This device is not user-serviceable and requires special tools to disassemble.

The EUT is considered a "Foldable Smartphone" and can be operated in two unique operating states – phone "fully closed" (State A) and phone "fully open" (State B). The test results of both operating states are reported.

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	Rx Power (W)	E-field (300m distance) FCC (dB μ V/m)	H-field (3m distance) IC (dB μ A/m)
127.7	Load 1	0.83	-3.11	24.01
360		0.47	-12.55	16.84
127.7	Load 2	6.6	-24.57	3.63
360		8.1	-28.51	-2.16
--	Standby	--	-43.34	-8.01

6.3. WORST-CASE CONFIGURATION AND MODE

The EUT was evaluated in two states: State A (fully closed), State B (fully open), and in three orthogonal orientations: X (Flatbed), Y (Landscape), and Z (Portrait).

The EUT with Load#1 was investigated at its worst-case orientation on a plastic fixture with a Load set at the center and at its worst-case 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 worst-case orientation on a plastic fixture with a Load set at max offset from center of EUT.

1. The EUT was tested on standby and operation modes. During operational mode, EUT was tested with load.
2. The EUT was tested with the following worst-case configurations:

CONFIGURATION	MODE	State	Orientation	DESCRIPTION
1	Standby	State B	X (Flatbed)	EUT powered by AC/DC adapter via USB-C Connector
2	Operating w/Load#1 • EUT w/ 127.7 kHz Fundamental	State B	Y (Landscape)	EUT powered by AC/DC Adapter via USB-C connector with a Load at charging mode
3	Operating w/Load#1 • EUT w/ 360 kHz Fundamental	State B	Y (Landscape)	EUT powered by AC/DC Adapter via USB-C connector with a Load at charging mode
4	Operating w/Load#2 • EUT w/ 127.7 kHz Fundamental	State A	X (Flatbed)	EUT powered by AC/DC Adapter via USB-C connector with a Load at charging mode
5	Operating w/Load#2 • EUT w/ 360 kHz Fundamental	State B	X (Flatbed)	EUT powered by AC/DC Adapter via USB-C connector with a Load at charging mode

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 on both loads.

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.

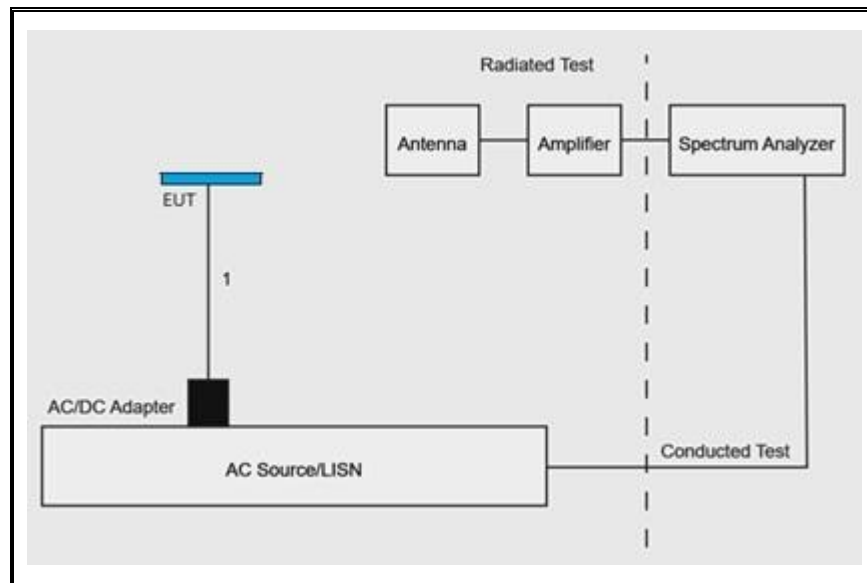
Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 300 m open area test site. Therefore, sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open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

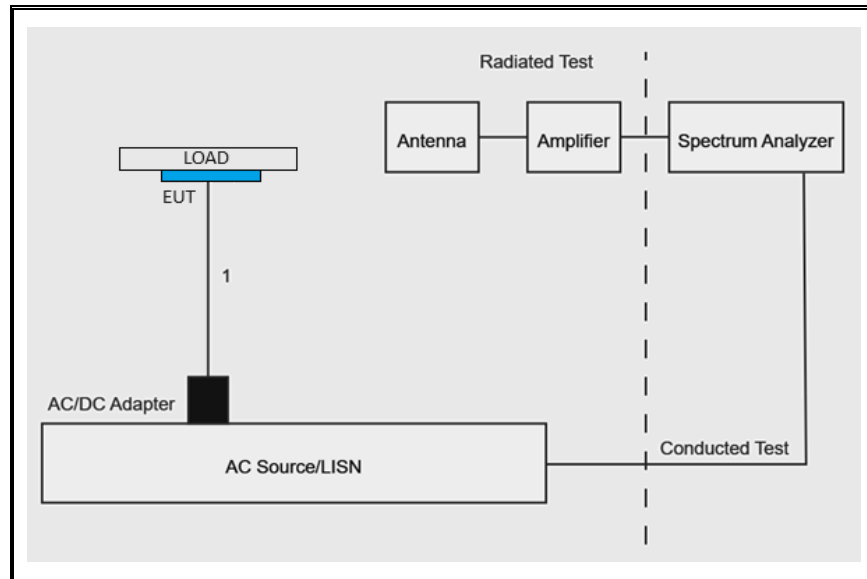
6.4. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT & PERIPHERALS LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
AC/DC adapter	Apple	N/A	C4H11451SQKPP4FCB	N/A
Charging Cable	Apple	N/A	FTLHLH0023V0001061	N/A
Load#1	Apple	N/A	H2X1W395MX H2NQ7N4MN6	N/A
Load#1 Accessory	Apple	N/A	HGVHST000990001GY1	N/A
Load#2	Apple	N/A	DND351202Y50NJM1S	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
Antenna, Passive Loop 30Hz to 1MHz	Electro-Metrics	EM-6871	170013	2026-09-30
Antenna, Passive Loop 100KHz to 30MHz	Electro-Metrics	EM-6872	170015	2026-09-30
Amplifier, 9kHz to 1GHz, 32dB	Sonoma Instrument	310N	79584	2026-12-31
Antenna, Broadband Hybrid, 30MHz to 2000MHz w/4dB	Sunol Sciences Corp.	JB3	202301	2027-02-28
Sniffer Probes	Electro Metrics	EM-6992	N/A	N/A
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc.	N9030A	125188	2027-01-31

AC Line Conducted				
Description	Manufacturer	Model	ID Num	Cal Due
EMI TEST RECEIVER 9kHz - 3.6GHz	Rohde & Schwarz	ESR	171646	2027-03-31
LISN for Conducted Emissions	Fischer Custom Communications, Inc	FCC-LISN-50/250-25-2-01-480V	175765	2027-01-31
Transient Limiter	TE	TBFL1	207996	2026-12-31
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.

RESULTS

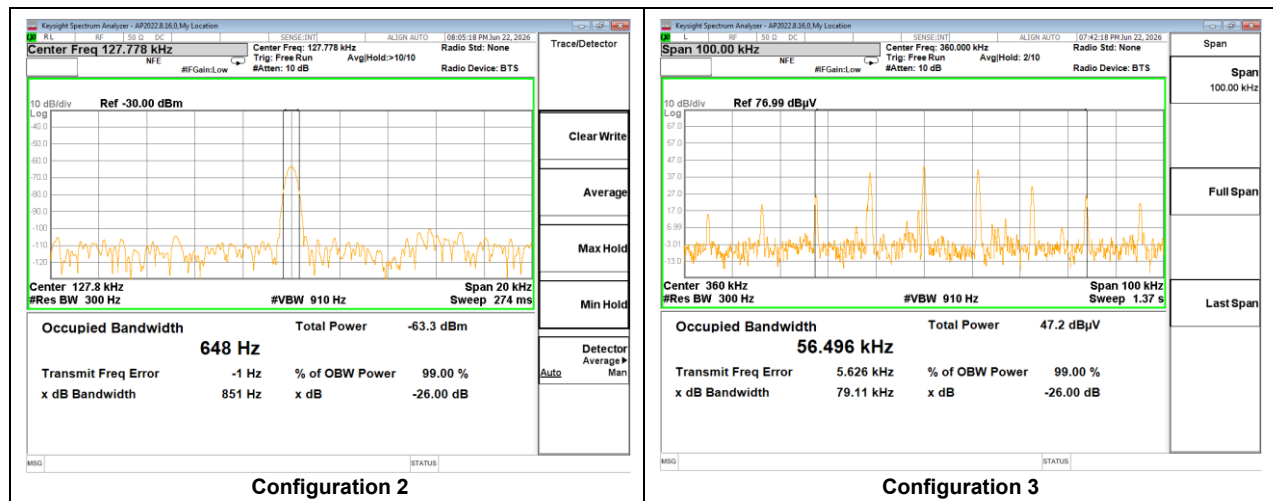
Configuration 2: EUT with Load#1 in operating mode, transmitting at 127.7 kHz

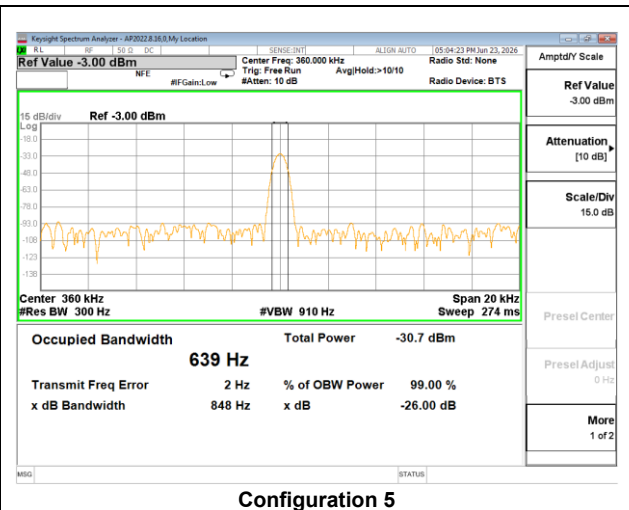
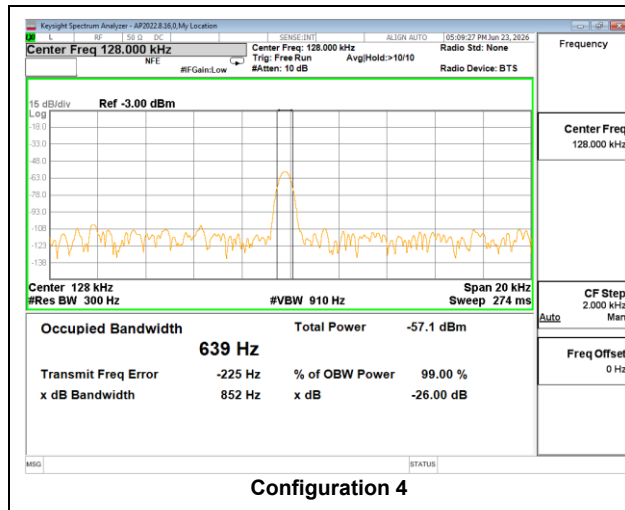
Configuration 3: EUT with Load#1 in operating mode, transmitting at 360 kHz

Configuration 4: EUT with Load#2 in operating mode, transmitting at 127.7 kHz

Configuration 5: EUT with Load#2 in operating mode, transmitting at 360 kHz

Configuration	Occupied Bandwidth (kHz)	
	127.7	360
2	0.648	-
3	-	56.496
4	0.64	-
5	-	0.64





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

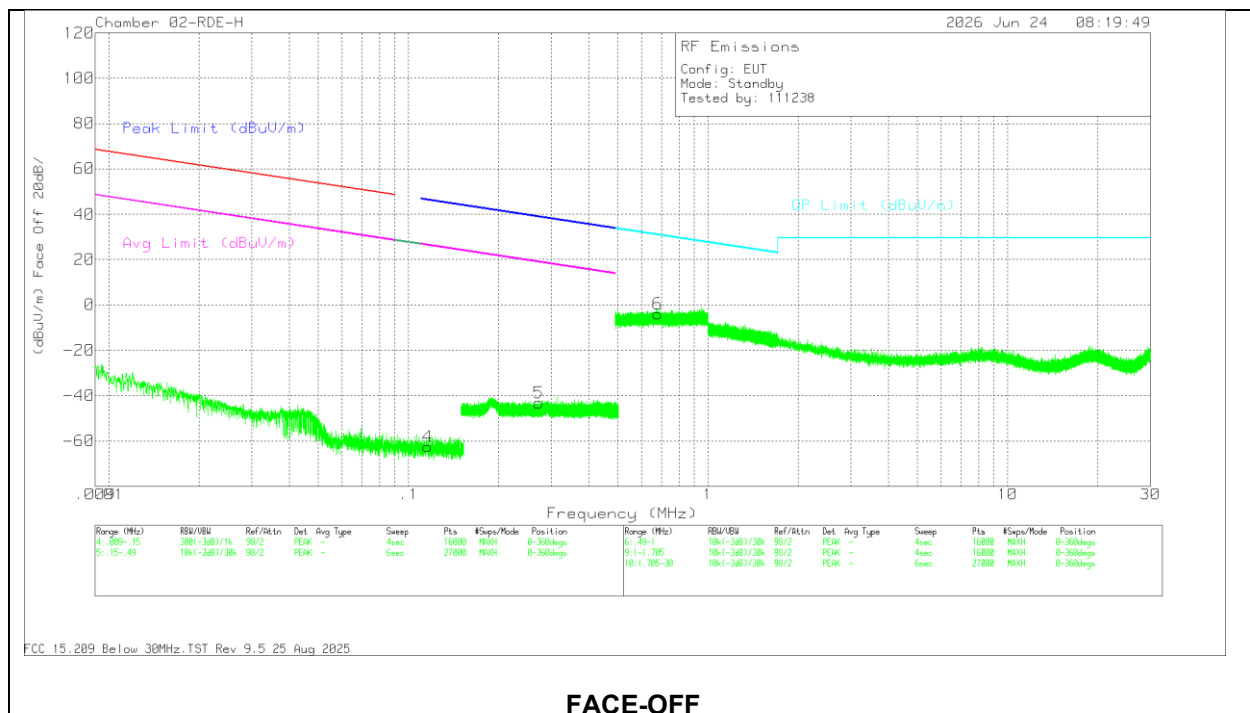
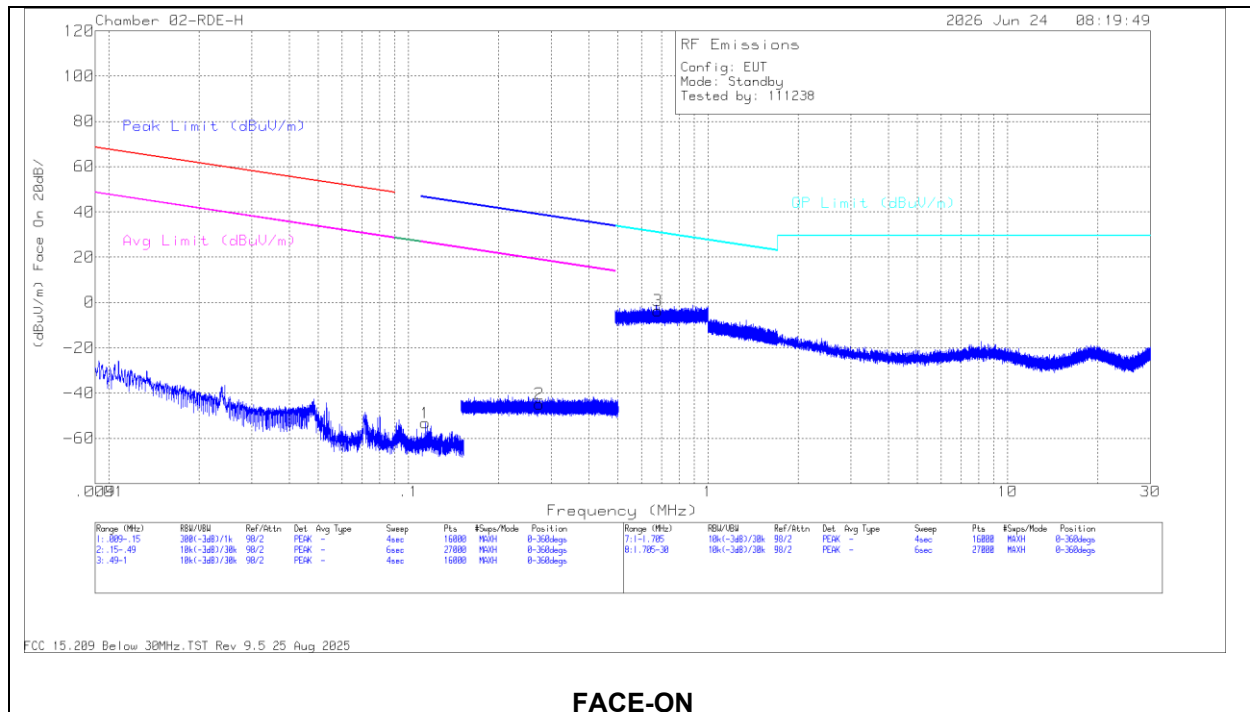
Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

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)



DATA

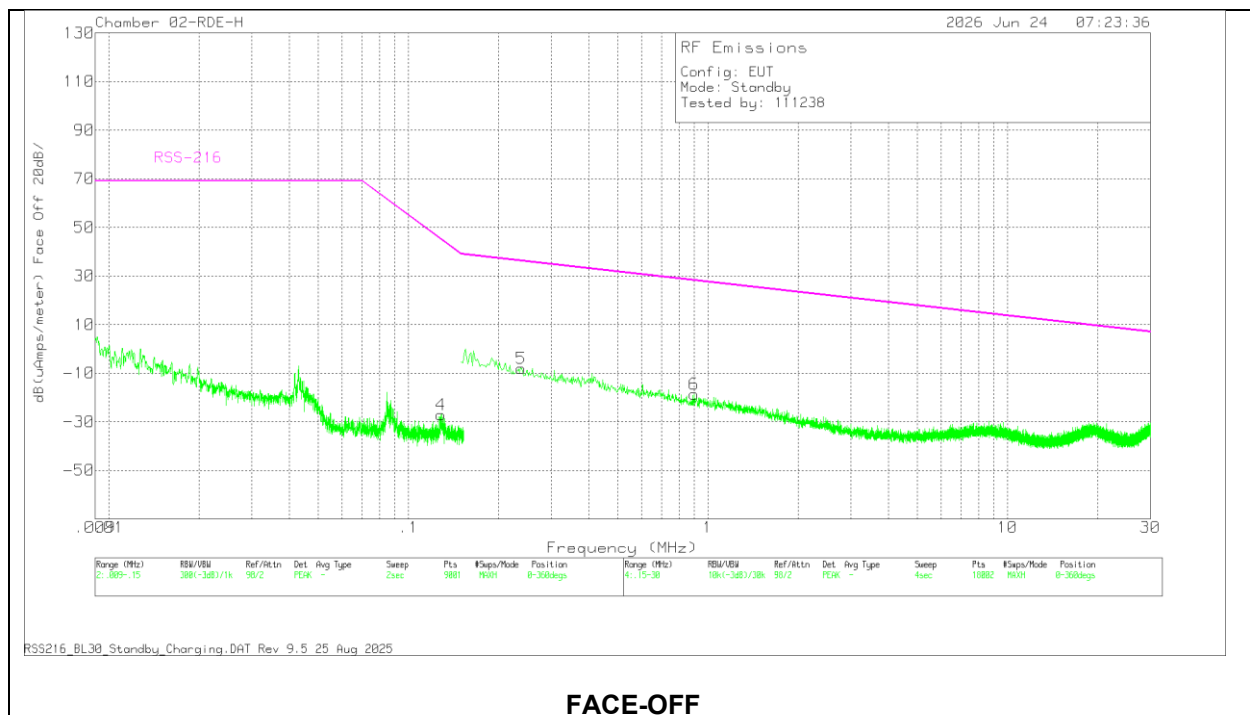
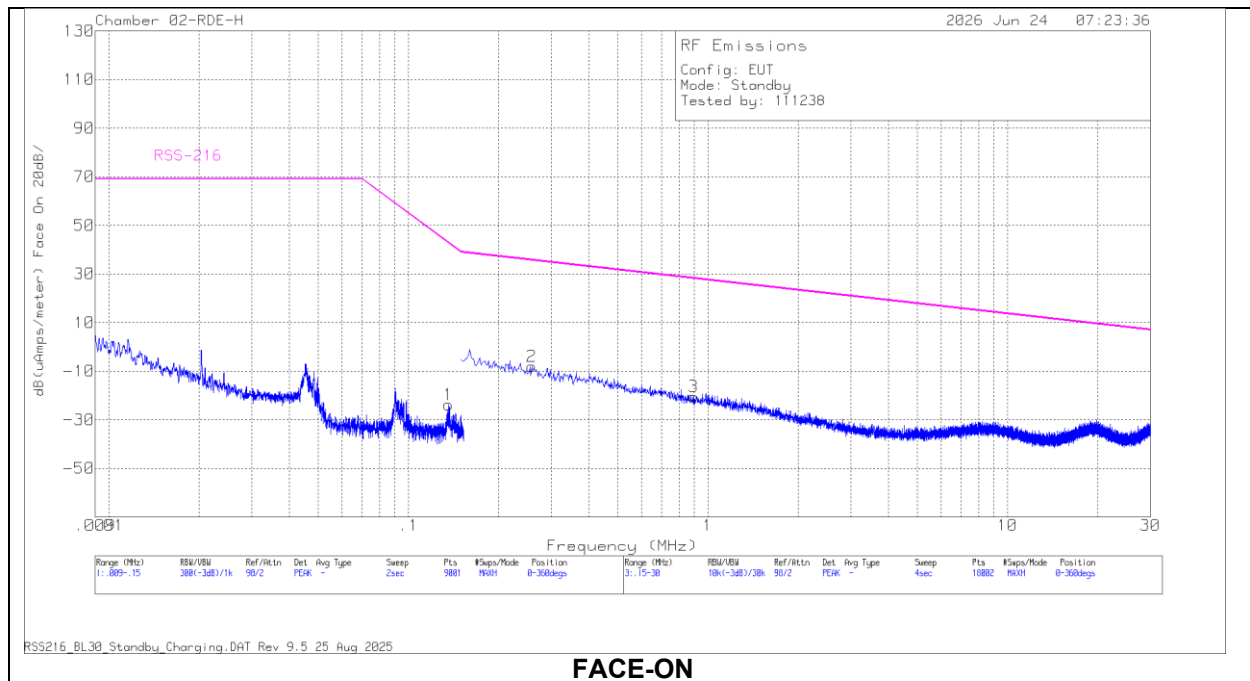
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dB/m)	Loop Path 30Hz-1MHz (dB)	Dist Corr 300m (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.1139	3.28	Pk	55.5	-32.1	-80	-53.32	46.5	-99.82	26.5	-79.82	0-360	Face-on
2	.2741	11.31	Pk	56	-32.1	-80	-44.79	38.86	-83.65	18.86	-63.65	0-360	Face-on
4	.1162	-5.69	Pk	55.5	-32.3	-80	-62.49	46.32	-108.81	26.32	-88.81	0-360	Face-off
5	.2726	12.76	Pk	56	-32.1	-80	-43.34	38.9	-82.24	18.9	-62.24	0-360	Face-off

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dB/m)	Loop Path 30Hz-1MHz (dB)	Dist Corr 30m (dB)	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
3	.68	12.25	Pk	56	-31.9	-40	-3.65	30.96	-34.61	0-360	Face-on
6	.6798	11.91	Pk	56	-31.9	-40	-3.99	30.96	-34.95	0-360	Face-off

Pk - Peak detector

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



DATA

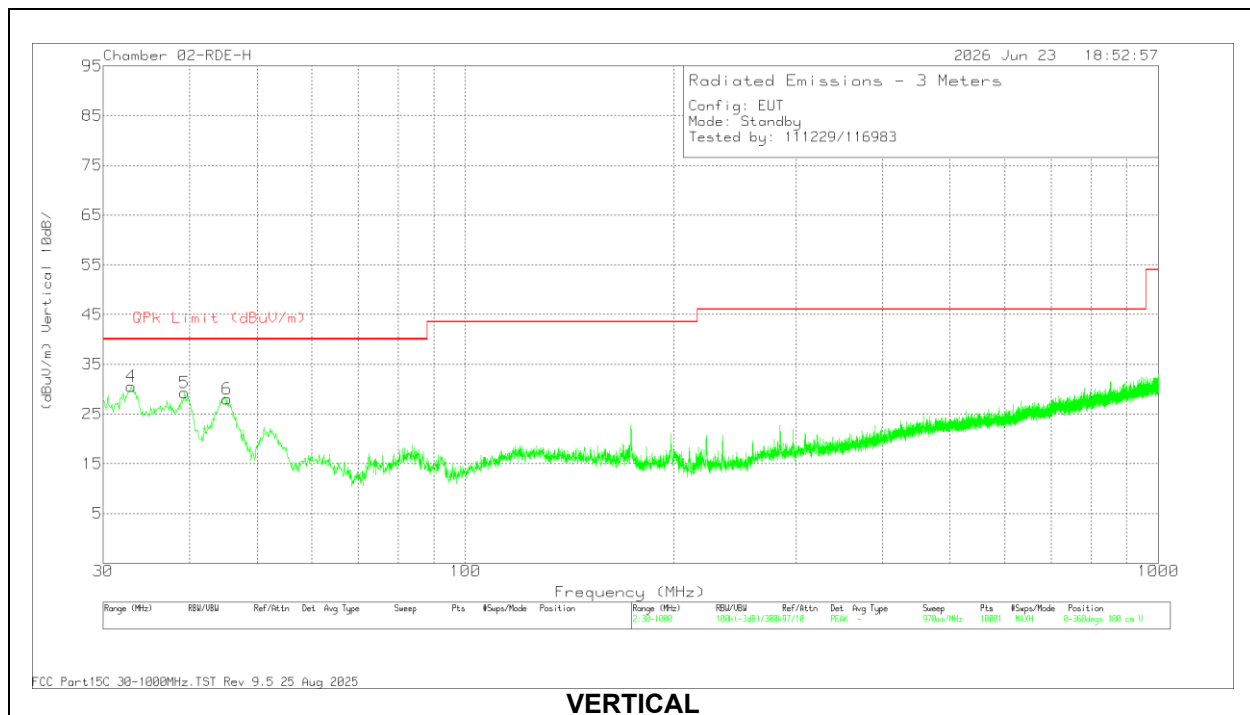
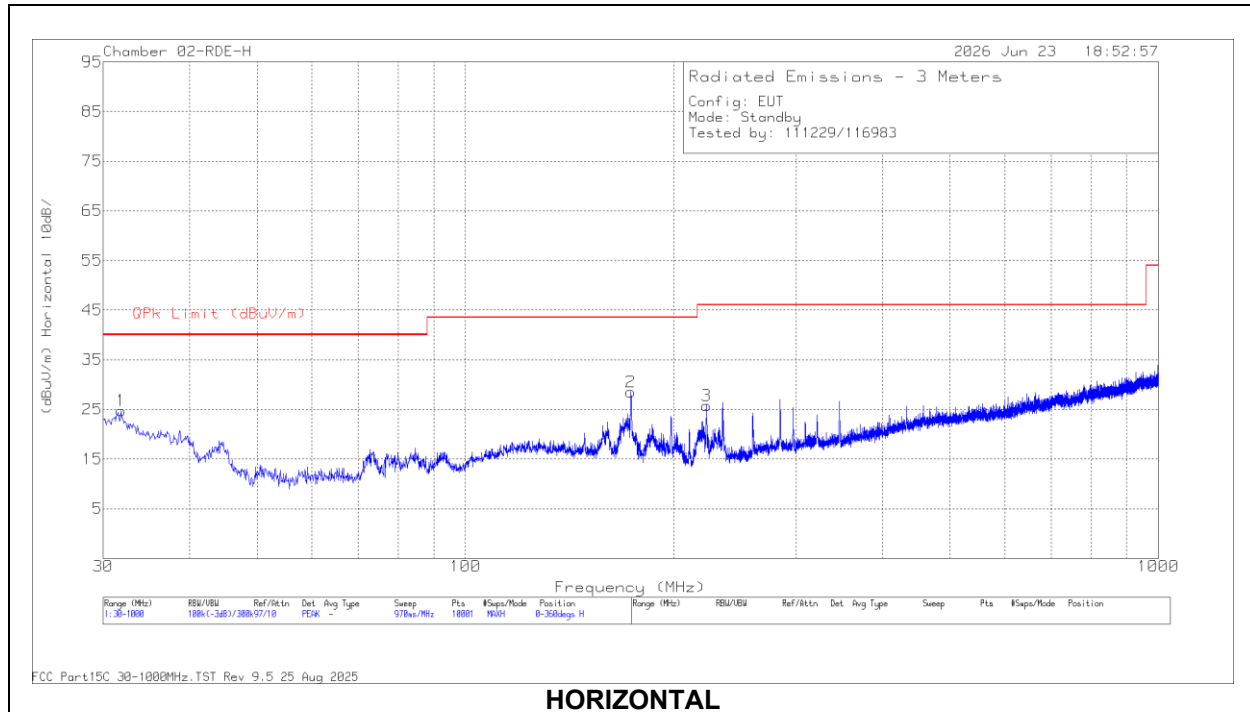
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna H (dB/m)	Loop Path 30Hz-1MHz (dB)	Corrected Reading dB(uAmps/meter)	RSS-216 Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.1358	4.56	Pk	4.1	-32.3	-23.64	42.9	-66.54	0-360	Face-on
4	.1286	1.11	Pk	4.1	-32.4	-27.19	45.07	-72.26	0-360	Face-off

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna H (dB/m)	Loop Path 100kHz-30MHz (dB)	Corrected Reading dB(uAmps/meter)	RSS-216 Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)	Polarity
2	.2578	17.22	Pk	6.7	-32	-8.08	35.73	-43.81	0-360	Face-on
3	.8944	15.67	Pk	-3.8	-32.2	-20.33	28.22	-48.55	0-360	Face-on
5	.2379	16.69	Pk	7.4	-32.1	-8.01	36.22	-44.23	0-360	Face-off
6	.8994	17.54	Pk	-3.9	-32.2	-18.56	28.18	-46.74	0-360	Face-off

Pk - Peak detector

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



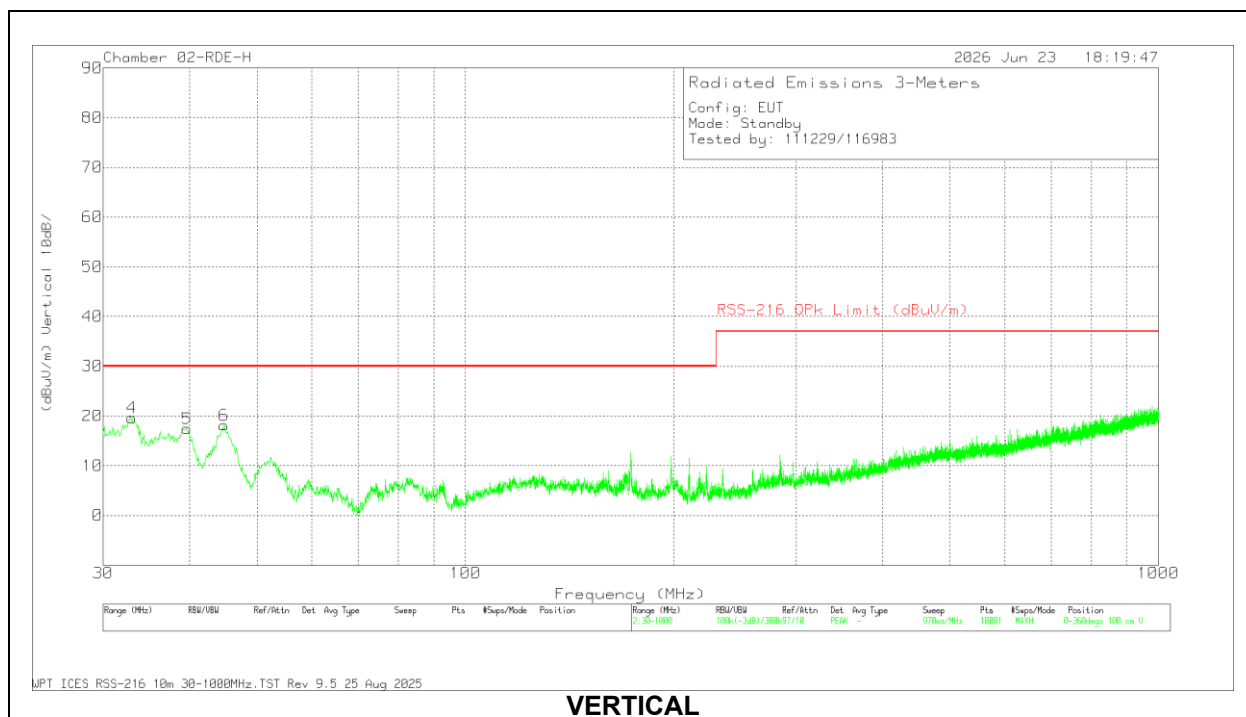
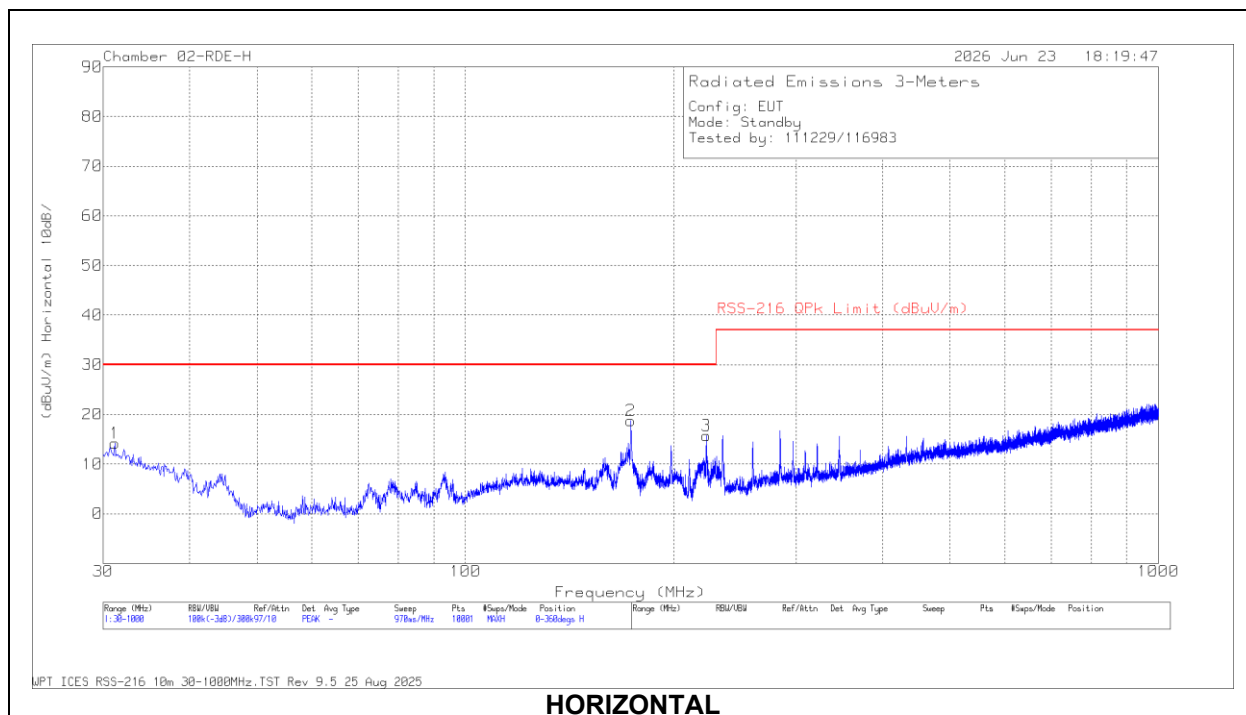
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	230635 ACF (dB/m)	Hybrid Path 30-1000MHz (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 173.12	40.65	Qp	17.5	-29.4	28.75	43.52	-14.77	216	159	H
1	32.104	22.62	Qp	24.9	-30.7	16.82	40	-23.18	160	175	H
4	33	31.21	Qp	24.5	-30.9	24.81	40	-15.19	77	111	V
5	39.6	34.09	Qp	19.9	-31.1	22.89	40	-17.11	139	102	V
6	44.795	38.85	Qp	16.1	-31	23.95	40	-16.05	224	100	V
3	222.717	36.08	Qp	16.6	-29.4	23.28	46.02	-22.74	275	188	H

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

Qp - Quasi-Peak detector

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



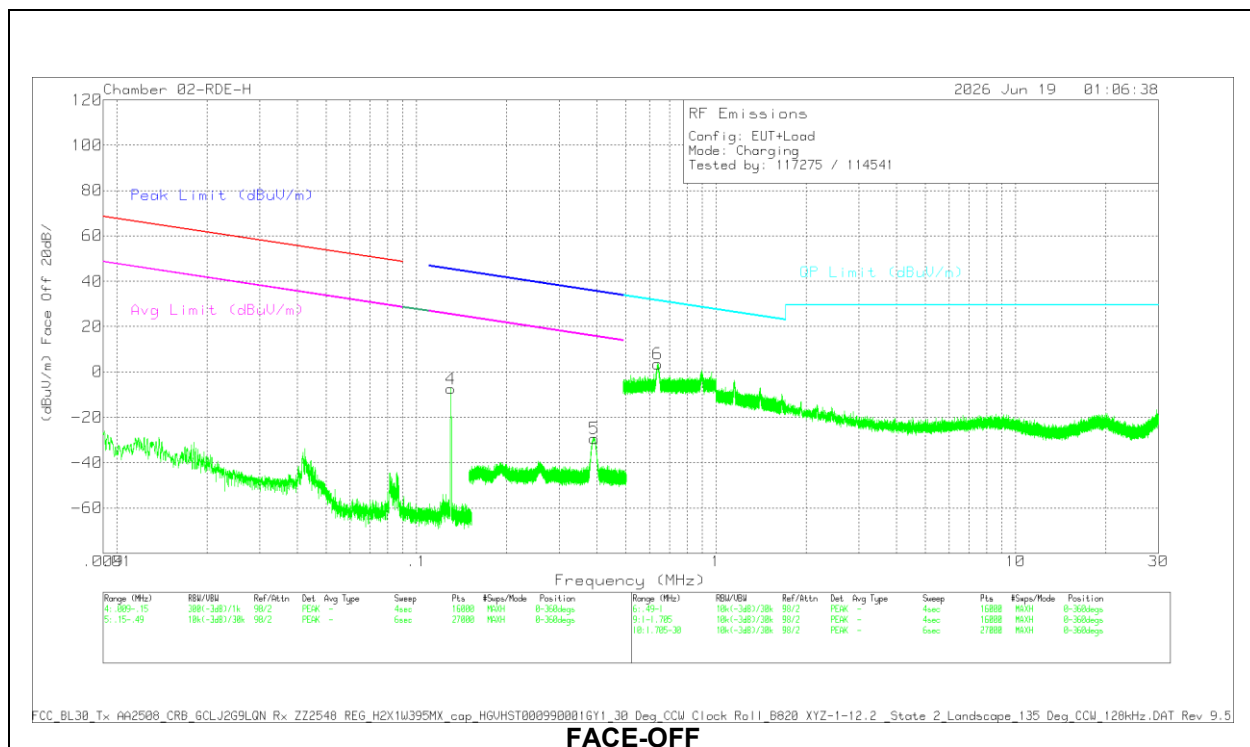
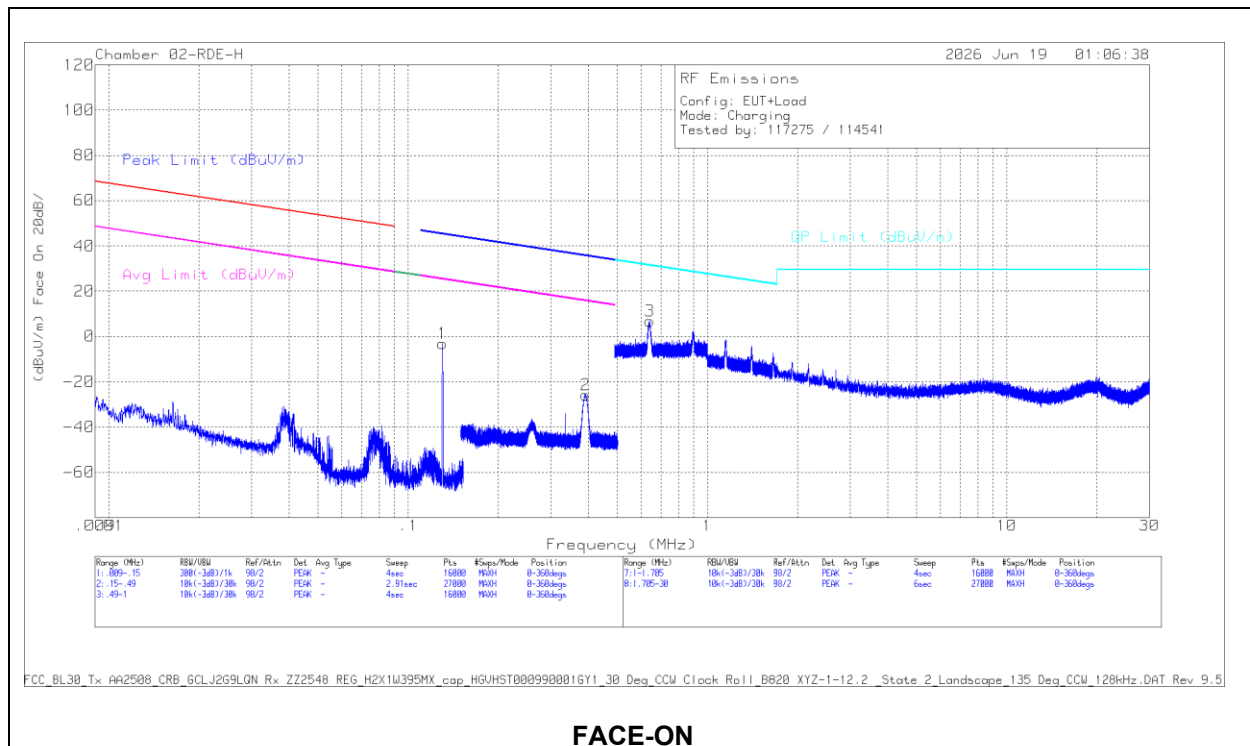
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	230635 ACF (dB/m)	Hybrid Path 30-1000MHz (dB)	Dist Corr 10m (dB)	Corrected Reading (dBuV/m)	RSS-216 QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	32.1564	23.09	Qp	24.9	-30.7	-10.5	6.79	30	-23.21	188	199	H
4	32.77	31.84	Qp	24.6	-30.9	-10.5	15.04	30	-14.96	97	109	V
5	39.131	36.21	Qp	20.3	-31.2	-10.5	14.81	30	-15.19	31	120	V
6	45.2062	37.91	Qp	15.8	-30.9	-10.5	12.31	30	-17.69	203	125	V
2	173.144	37.66	Qp	17.5	-29.4	-10.5	15.26	30	-14.74	205	271	H
3	222.678	37.98	Qp	16.6	-29.4	-10.5	14.68	30	-15.32	280	130	H

Qp - Quasi-Peak detector

9.2. CONFIGURATION 2: OPERATING MODE W/ LOAD#1 127.78kHz

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



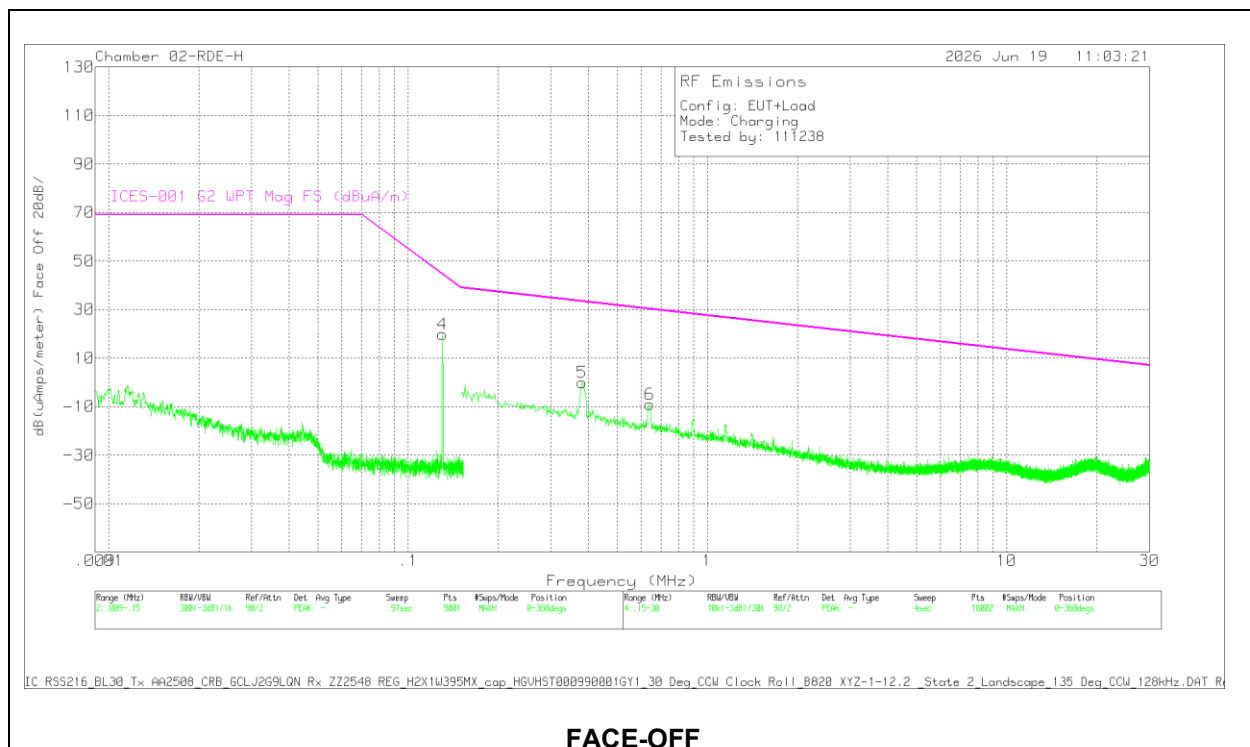
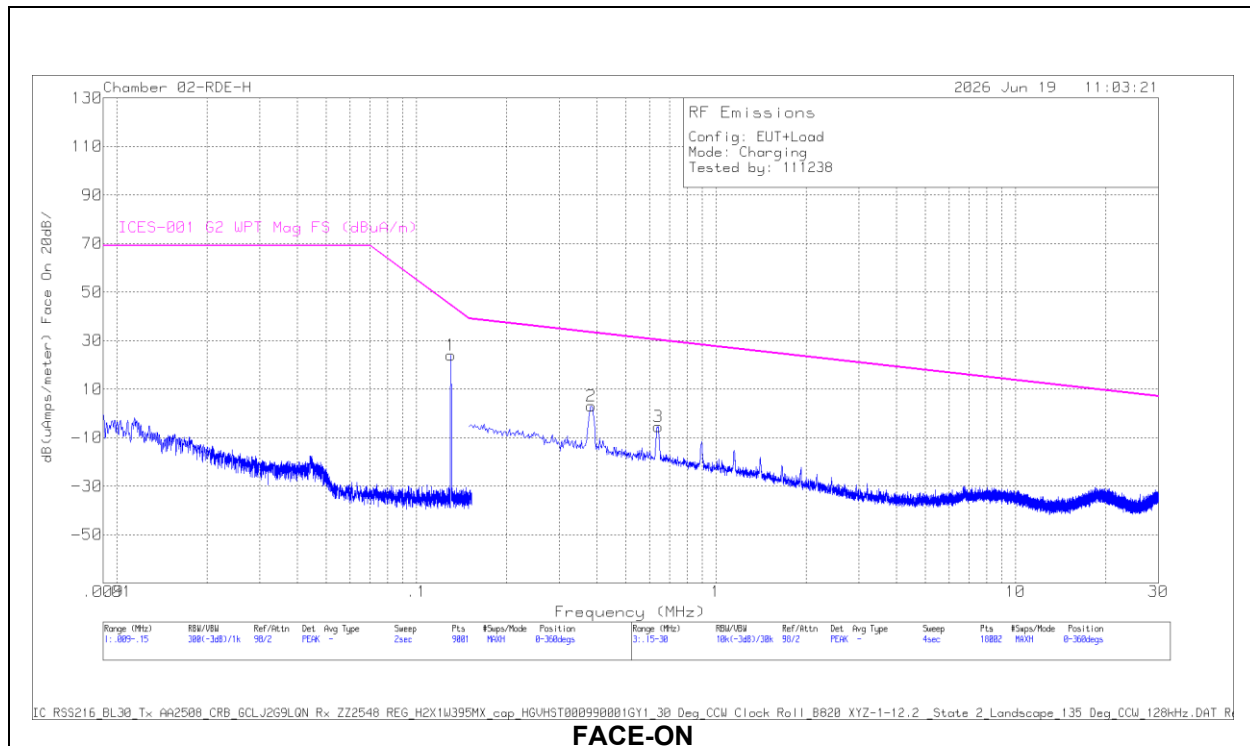
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (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	.1303	53.69	Pk	55.6	-32.4	-80	-3.11	45.33	-48.44	25.33	-28.44	0-360	Face-on
2	.3917	30.22	Pk	56	-32	-80	-25.78	35.75	-61.53	15.75	-41.53	0-360	Face-on
4	.1303	49.38	Pk	55.6	-32.4	-80	-7.42	45.33	-52.75	25.33	-32.75	0-360	Face-off
5	.3928	26.65	Pk	56	-32	-80	-29.35	35.72	-65.07	15.72	-45.07	0-360	Face-off

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dB/m)	Loop Path 30Hz-1MHz (dB)	Dist Corr 30m (dB)	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
3	.6408	22.74	Pk	56	-32	-40	6.74	31.48	-24.74	0-360	Face-on
6	.6401	19.62	Pk	56	-32	-40	3.62	31.49	-27.87	0-360	Face-off

Pk - Peak detector

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

DATA

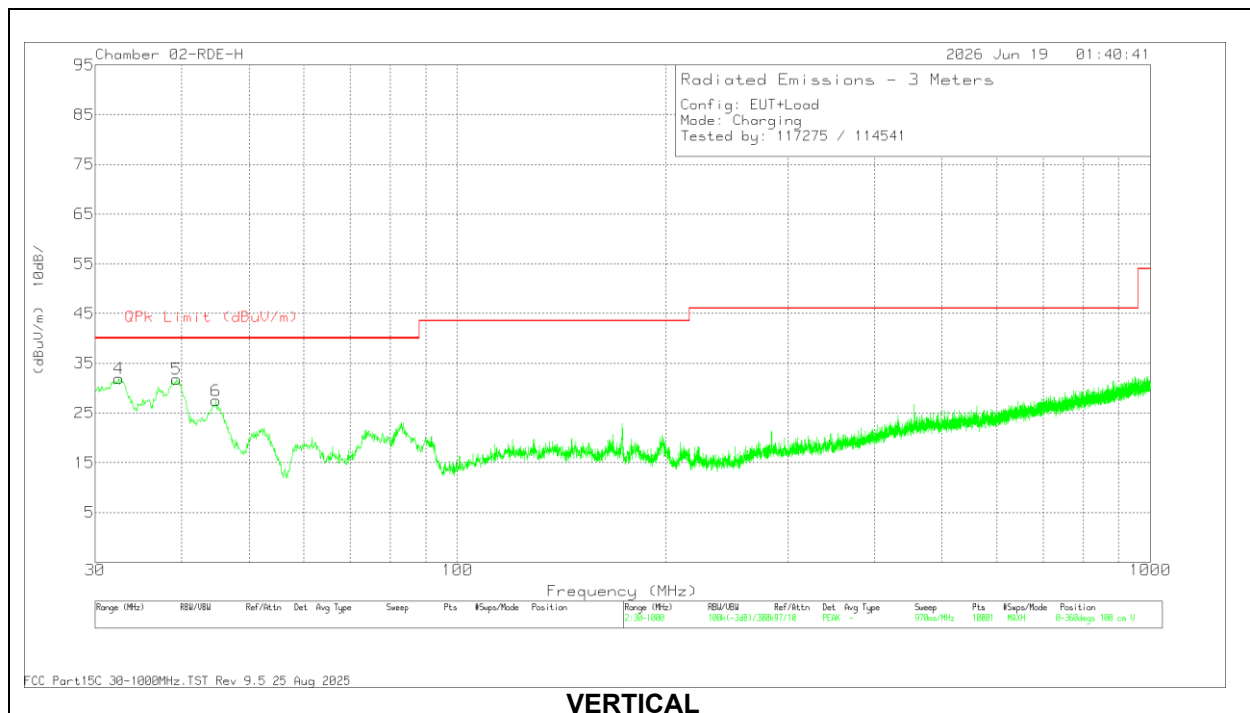
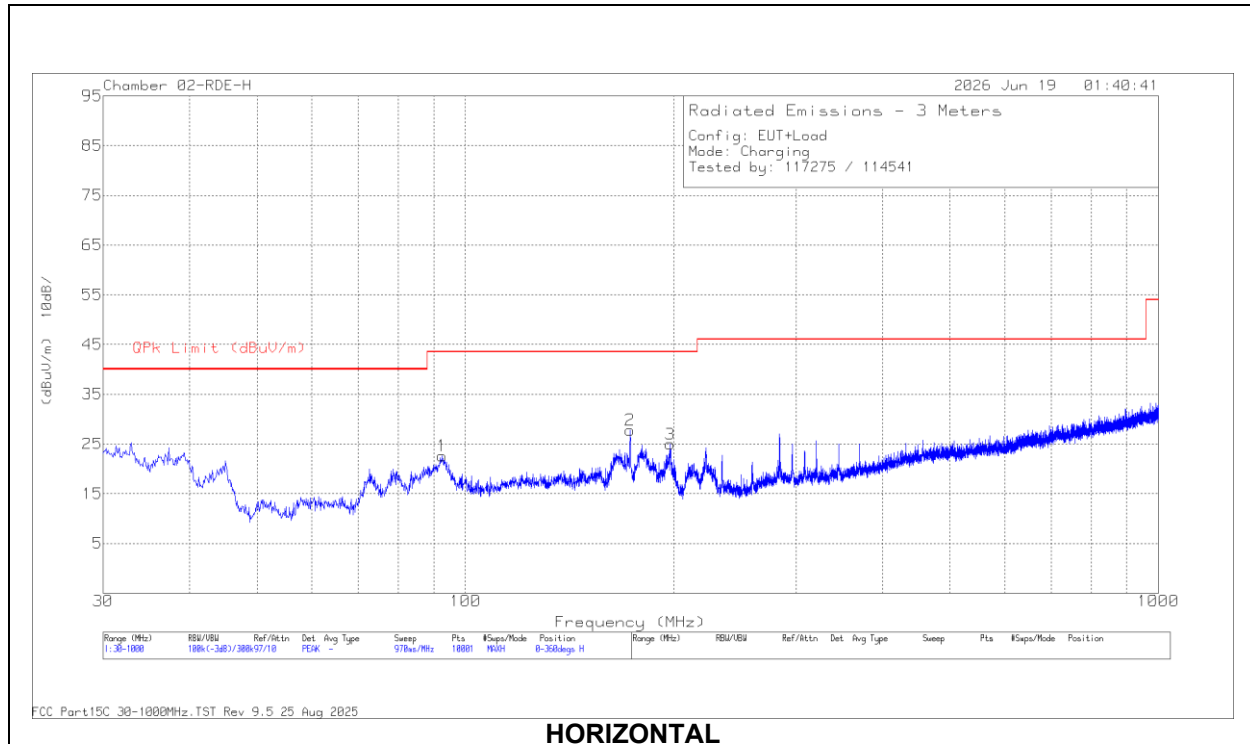
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna H (dB/m)	Loop Path 30Hz-1MHz (dB)	Corrected Reading dB(uAmps/meter)	RSS-216 Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.1303	52.31	Pk	4.1	-32.4	24.01	44.54	-20.53	0-360	Face-on
4	.1303	48.25	Pk	4.1	-32.4	19.95	44.54	-24.59	0-360	Face-off

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna H (dB/m)	Loop Path 100kHz-30MHz (dB)	Corrected Reading dB(uAmps/meter)	RSS-216 Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)	Polarity
2	.3838	32.2	Pk	3	-32.1	3.1	33.33	-30.23	0-360	Face-on
3	.6408	27.35	Pk	-1	-31.8	-5.45	30.23	-35.68	0-360	Face-on
5	.3821	28.9	Pk	3.1	-32.1	-1	33.35	-33.45	0-360	Face-off
6	.6408	23.75	Pk	-1	-31.8	-9.05	30.23	-39.28	0-360	Face-off

Pk - Peak detector

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

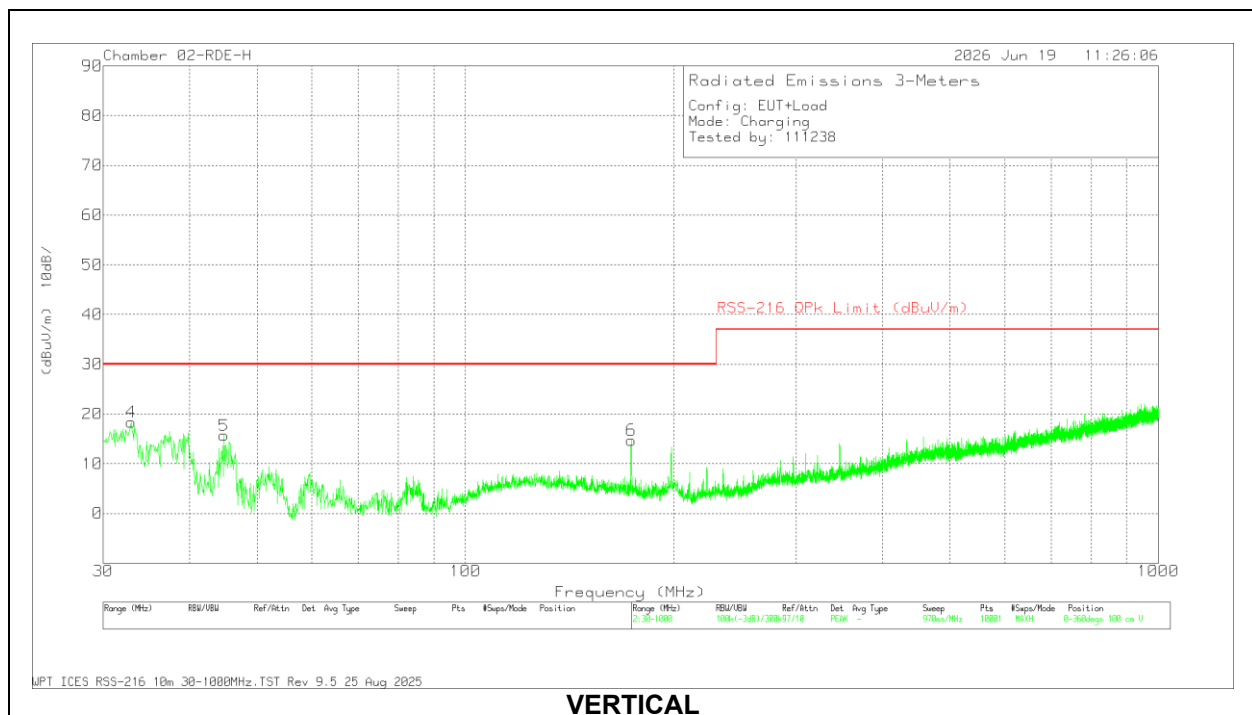
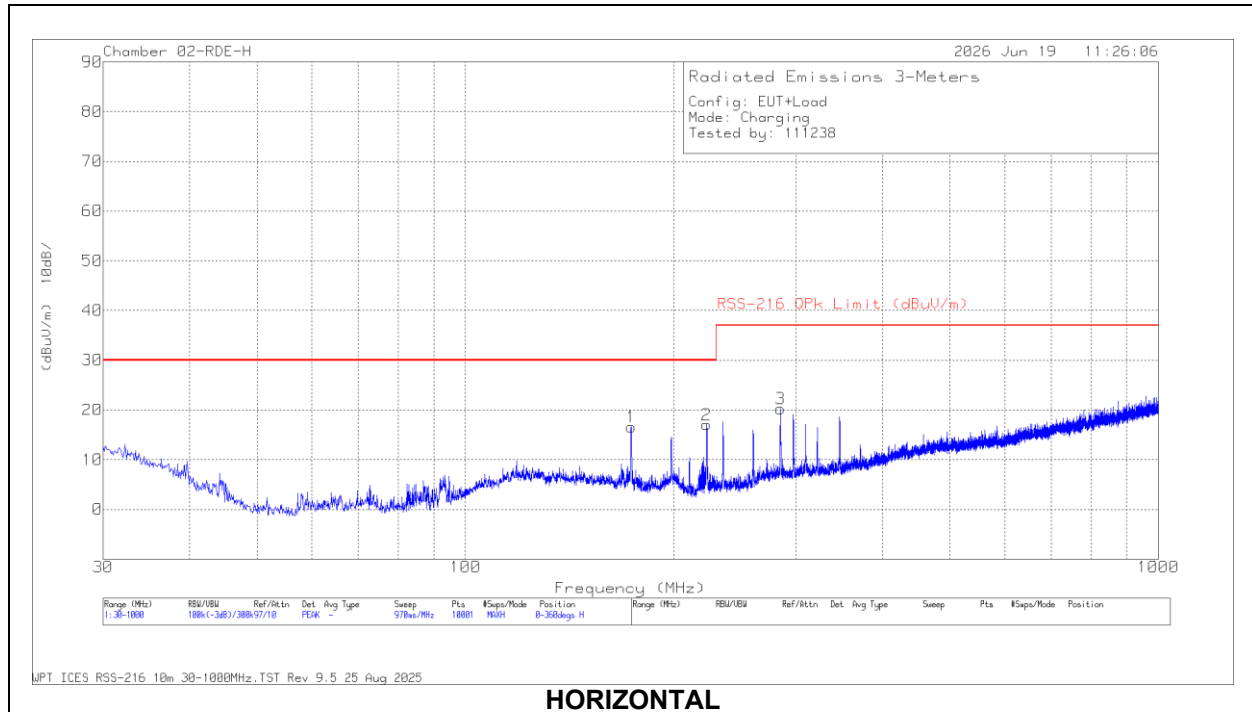


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	230635 ACF (dB/m)	Hybrid Path 30-1000MHz (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	92.502	29.63	Qp	14.3	-30.1	13.83	43.52	-29.69	150	103	H
2	* 172.898	39.93	Qp	17.5	-29.4	28.03	43.52	-15.49	216	144	H
3	197.531	35.13	Qp	18.4	-29.3	24.23	43.52	-19.29	214	103	H
4	32.77	33.22	Qp	24.6	-30.9	26.92	40	-13.08	332	115	V
5	39.088	38.1	Qp	20.3	-31.2	27.2	40	-12.8	104	103	V
6	44.841	38.25	Qp	16	-30.9	23.35	40	-16.65	221	111	V

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

Qp - Quasi-Peak detector

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

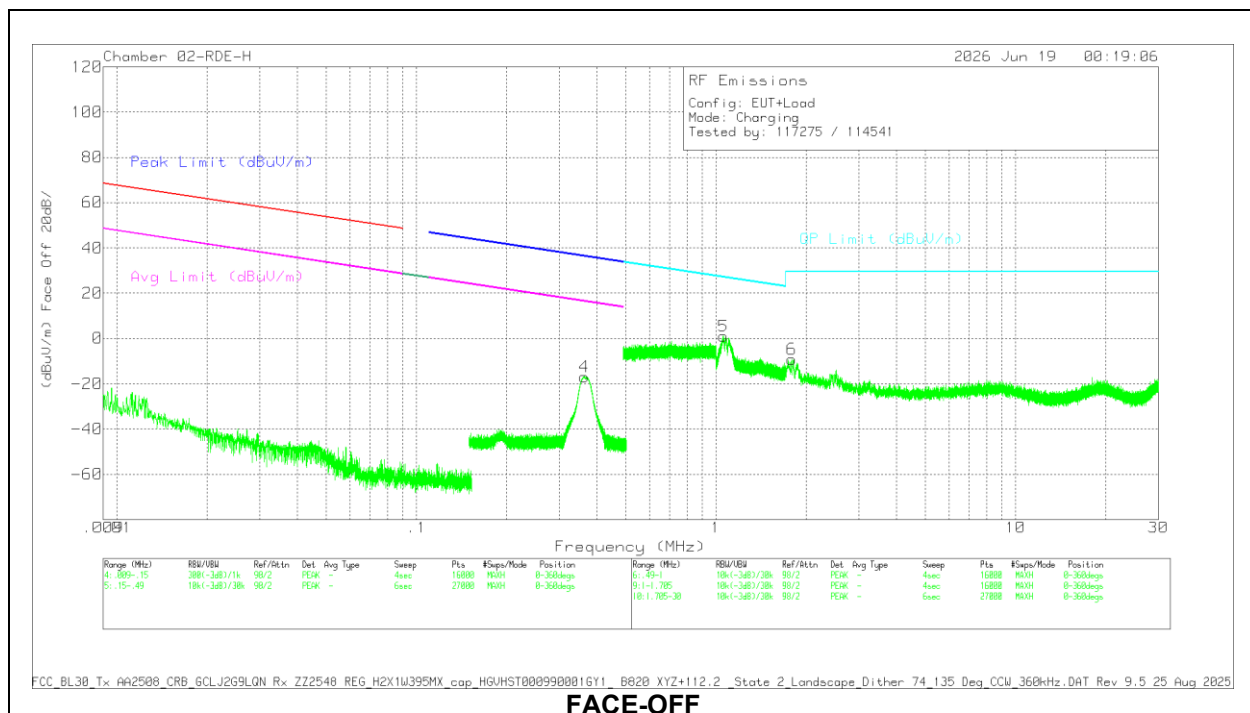
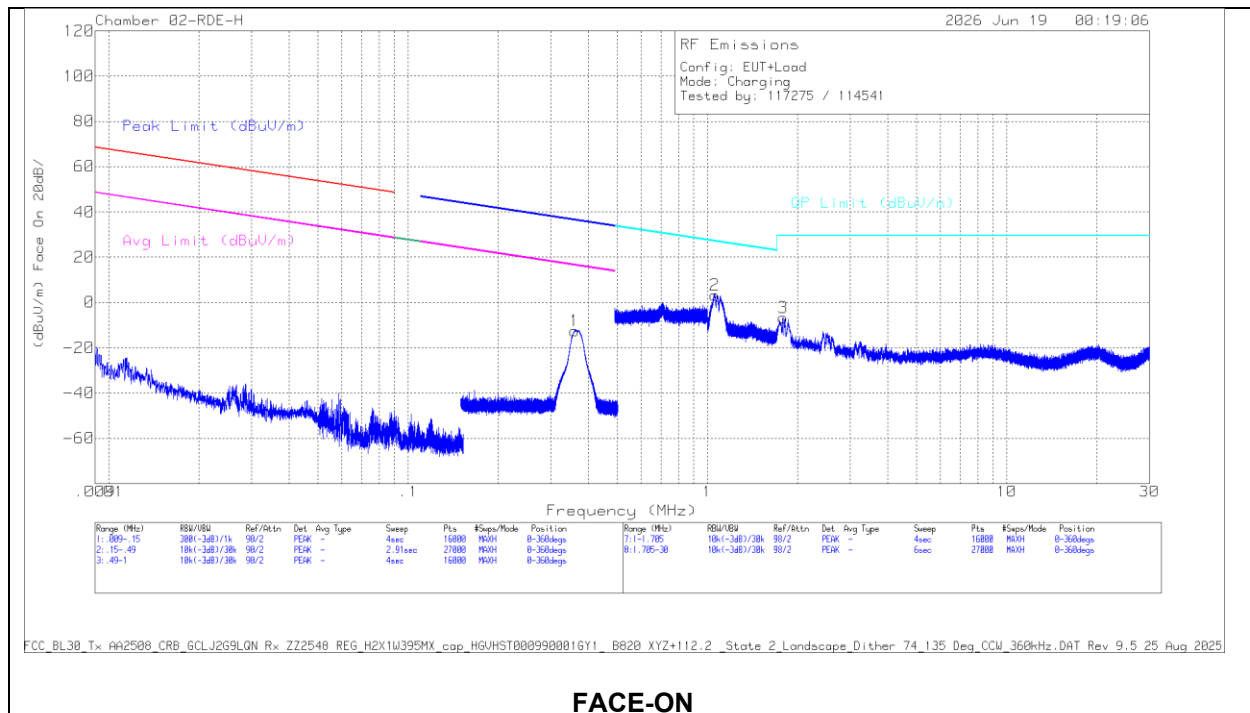
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	202301 ACF (dB/m)	Hybrid Path 30-1000MHz (dB)	Dist Corr 10m (dB)	Corrected Reading (dBuV/m)	RSS-216 QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	173.298	37.93	Qp	17.5	-29.4	-10.5	15.53	30	-14.47	19	146	H
2	222.889	39.14	Qp	16.6	-29.4	-10.5	15.84	30	-14.16	270	107	H
3	284.582	37.87	Qp	19.3	-29	-10.5	17.67	37	-19.33	309	102	H
4	32.318	26.65	Qp	24.8	-30.8	-10.5	10.15	30	-19.85	44	124	V
5	45.0817	34.08	Qp	15.9	-30.9	-10.5	8.58	30	-21.42	176	111	V
6	173.349	35.14	Qp	17.5	-29.4	-10.5	12.74	30	-17.26	243	224	V

Qp - Quasi-Peak detector

9.3. CONFIGURATION 3: OPERATING MODE W/ LOAD#1 360kHz

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



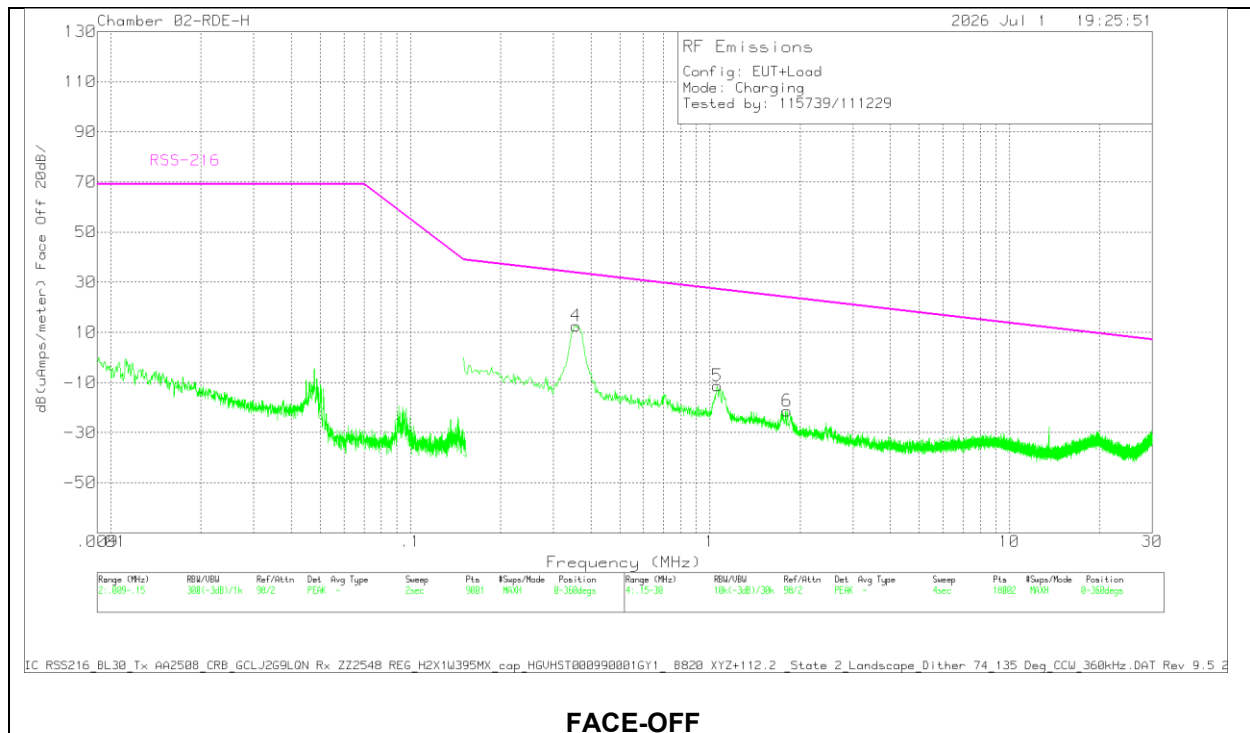
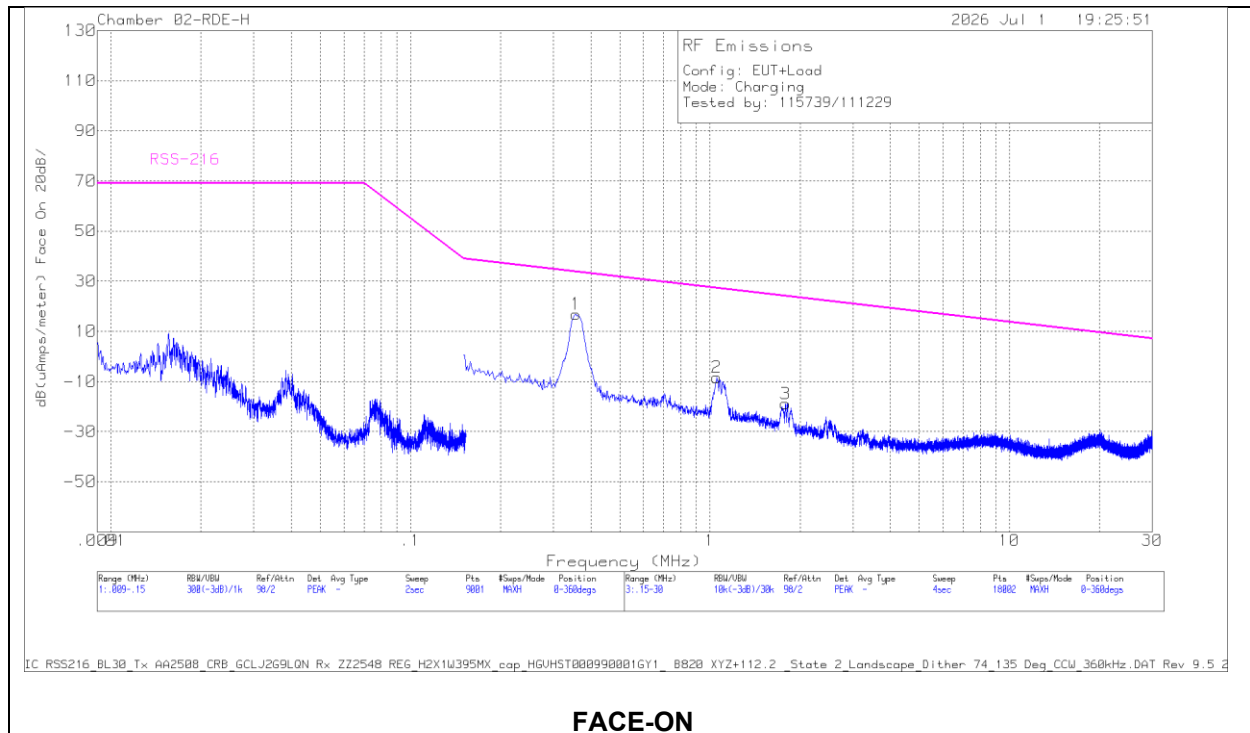
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (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	.3603	43.65	Pk	56	-32.2	-80	-12.55	36.48	-49.03	16.48	-29.03	0-360	Face-on
4	.3629	39.29	Pk	56	-32.2	-80	-16.91	36.41	-53.32	16.41	-33.32	0-360	Face-off

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dB/m)	Loop Path 100kHz-30MHz (dB)	Dist Corr 30m (dB)	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
2	1.0613	28.36	Pk	46.7	-31.8	-40	3.26	27.11	-23.85	0-360	Face-on
3	1.7878	22.65	Pk	42.8	-32.1	-40	-6.65	29.5	-36.15	0-360	Face-on
5	1.058	26.01	Pk	46.7	-31.8	-40	.91	27.13	-26.22	0-360	Face-off
6	1.7867	20.01	Pk	42.8	-32.1	-40	-9.29	29.5	-38.79	0-360	Face-off

Pk - Peak detector

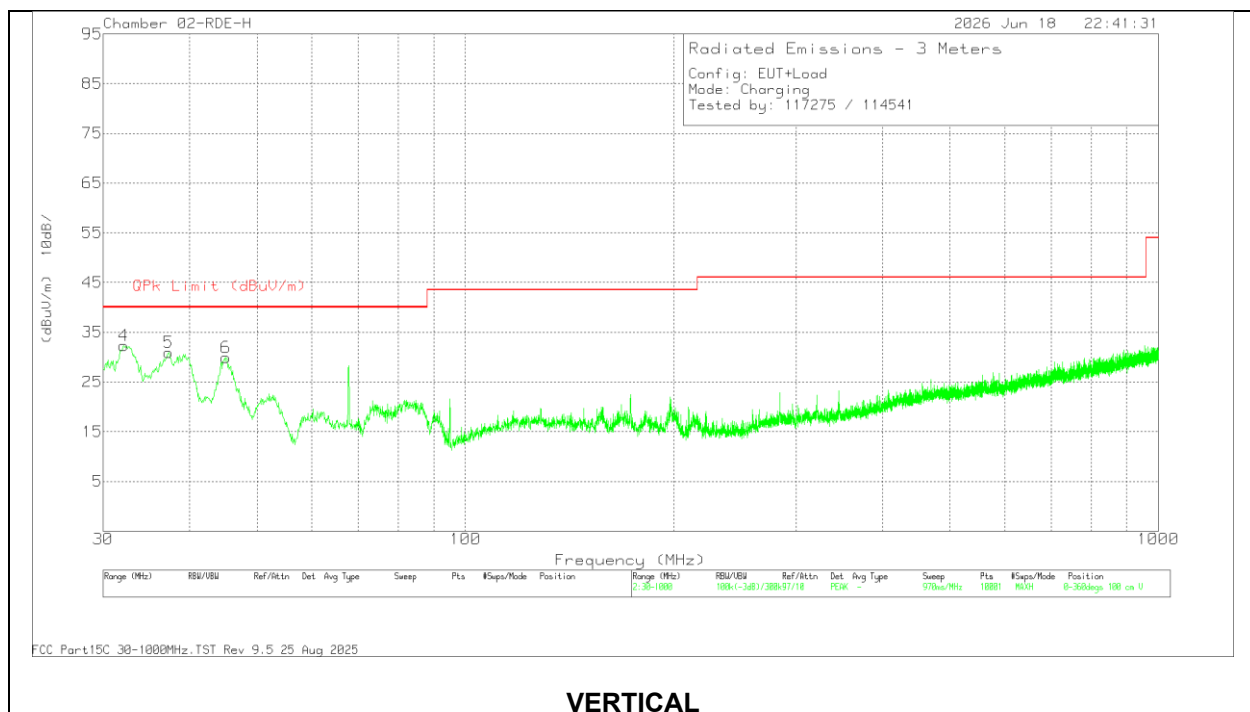
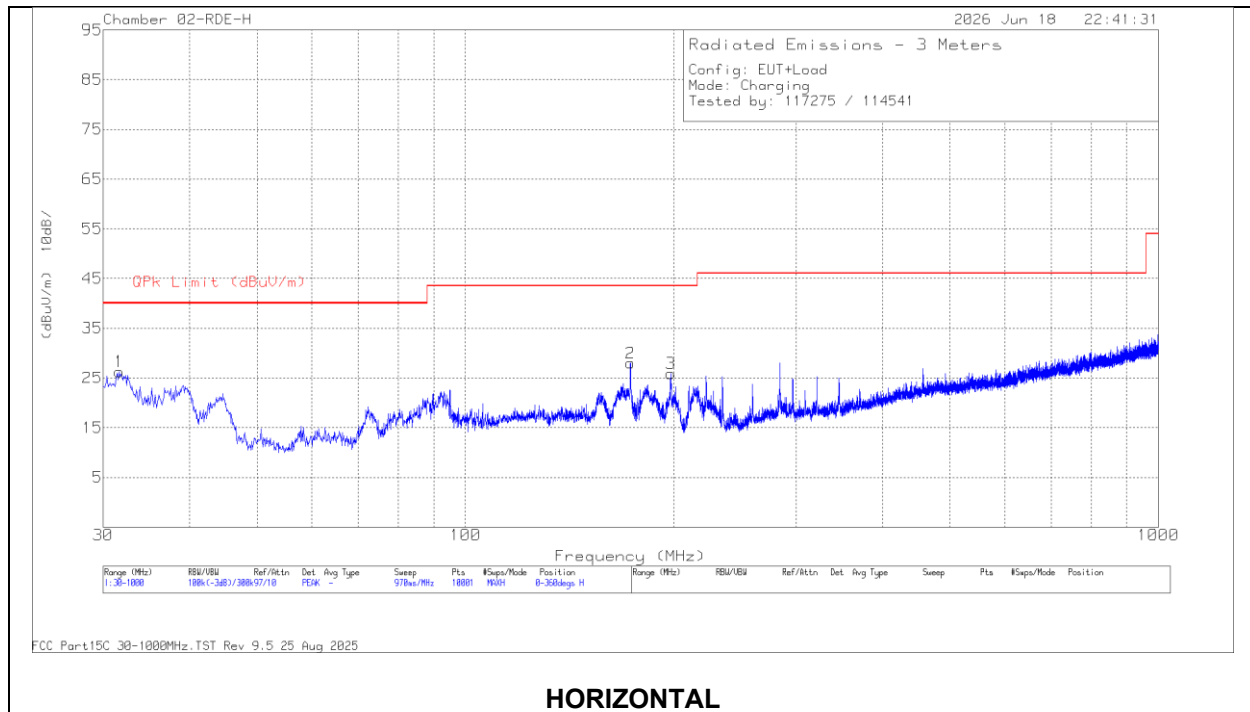
9.3.2. ISED TX FUNDAMENTAL & SPURIOUS EMISSIONS (9 kHz - 30 MHz)

DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna H (dB/m)	Loop Path 100kHz-30MHz (dB)	Corrected Reading dB(uAmps/meter)	RSS-216 Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.3573	45.34	Pk	3.7	-32.2	16.84	33.76	-16.92	0-360	Face-on
2	1.0536	28.22	Pk	-4.8	-31.8	-8.38	27.23	-35.61	0-360	Face-on
3	1.7881	21.9	Pk	-8.7	-32.1	-18.9	24.03	-42.93	0-360	Face-on
4	.3573	41.09	Pk	3.7	-32.2	12.59	33.76	-21.17	0-360	Face-off
5	1.0586	25.29	Pk	-4.8	-31.8	-11.31	27.2	-38.51	0-360	Face-off
6	1.813	19.46	Pk	-8.8	-32	-21.34	23.95	-45.29	0-360	Face-off

Pk - Peak detector

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

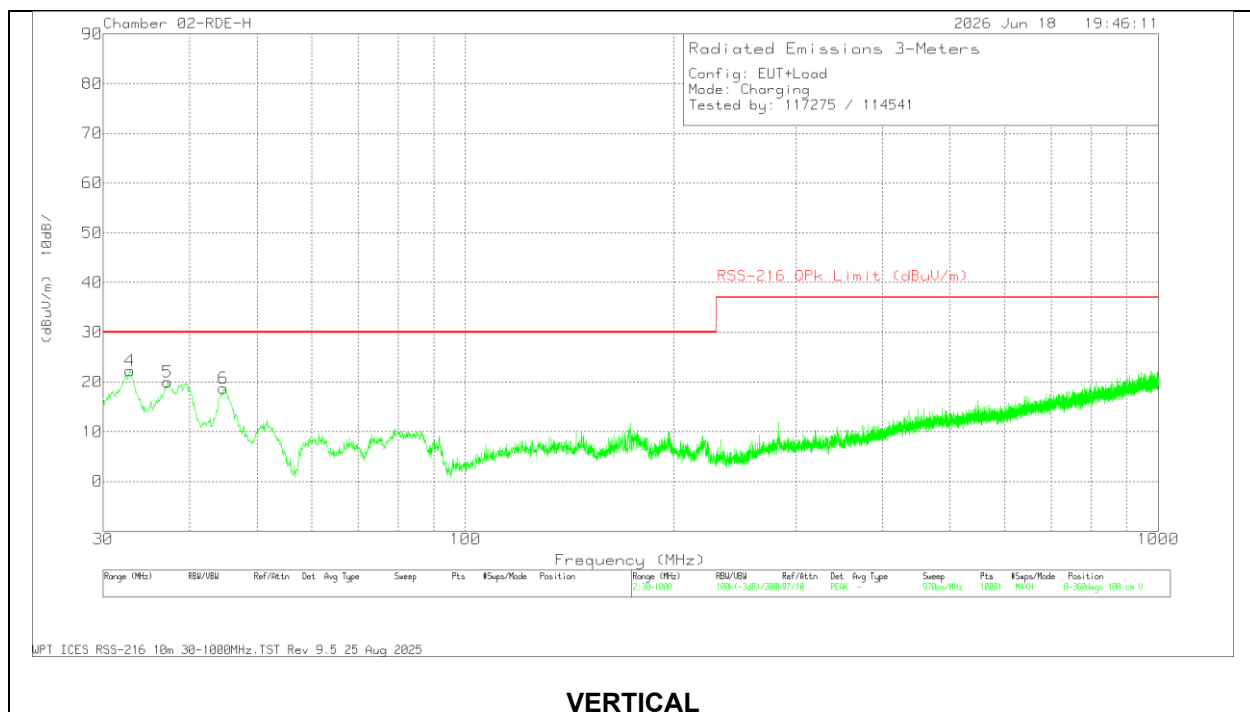
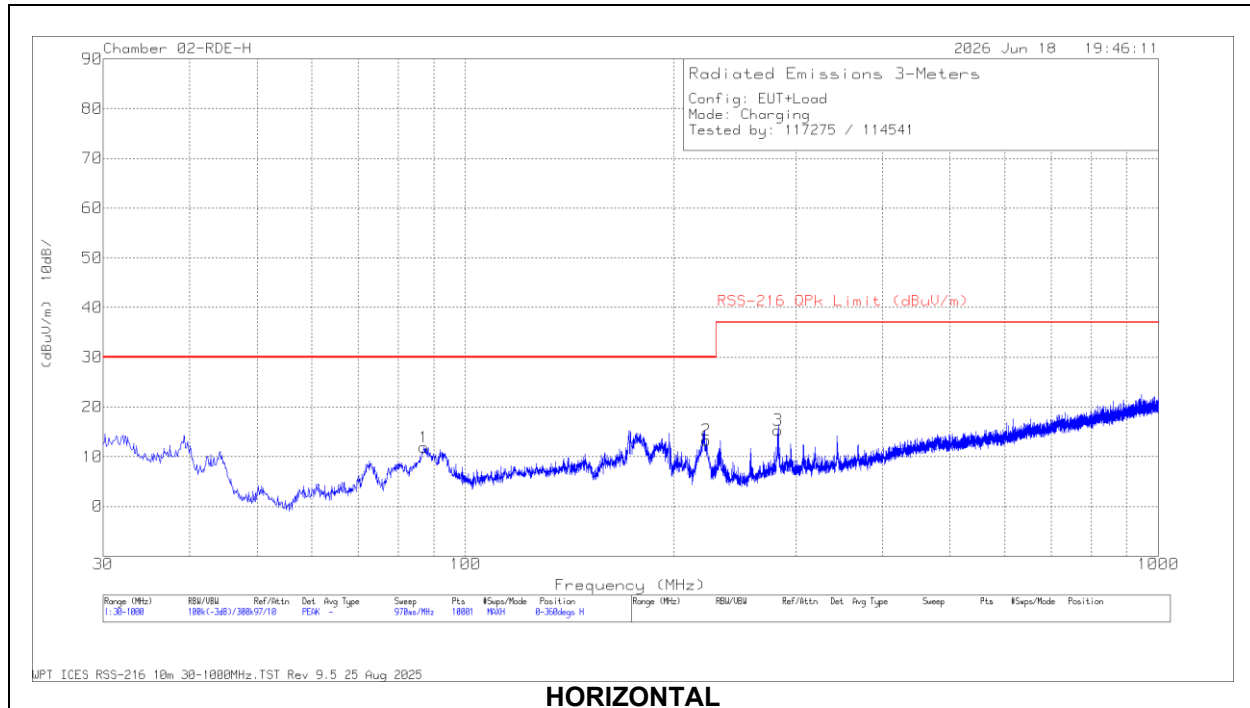


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	230635 ACF (dB/m)	Hybrid Path 30-1000MHz (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	32.27	26.28	Qp	24.9	-30.8	20.38	40	-19.62	136	236	H
2	* 173.029	38.98	Qp	17.5	-29.4	27.08	43.52	-16.44	210	139	H
3	197.653	35.23	Qp	18.4	-29.2	24.43	43.52	-19.09	221	143	H
4	32.854	33.55	Qp	24.6	-30.9	27.25	40	-12.75	79	108	V
5	40.727	36.56	Qp	18.9	-31.4	24.06	40	-15.94	59	104	V
6	45.087	40.64	Qp	15.9	-30.9	25.64	40	-14.36	159	108	V

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

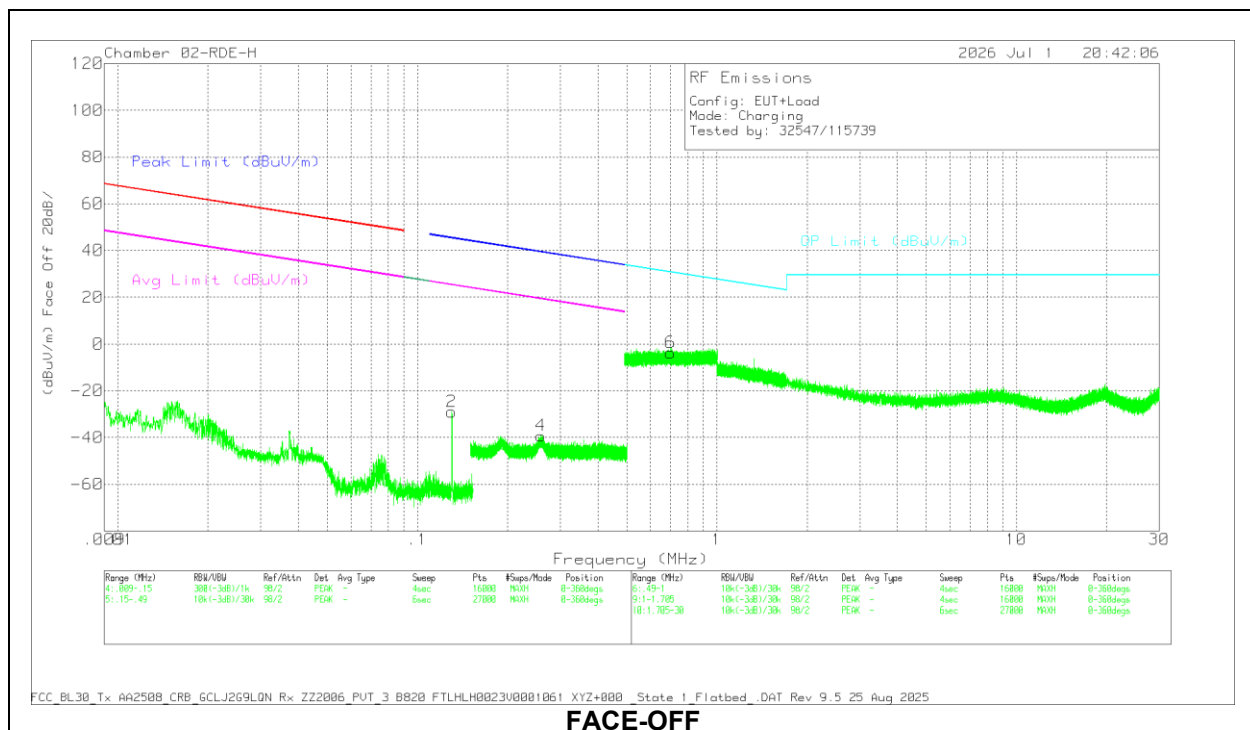
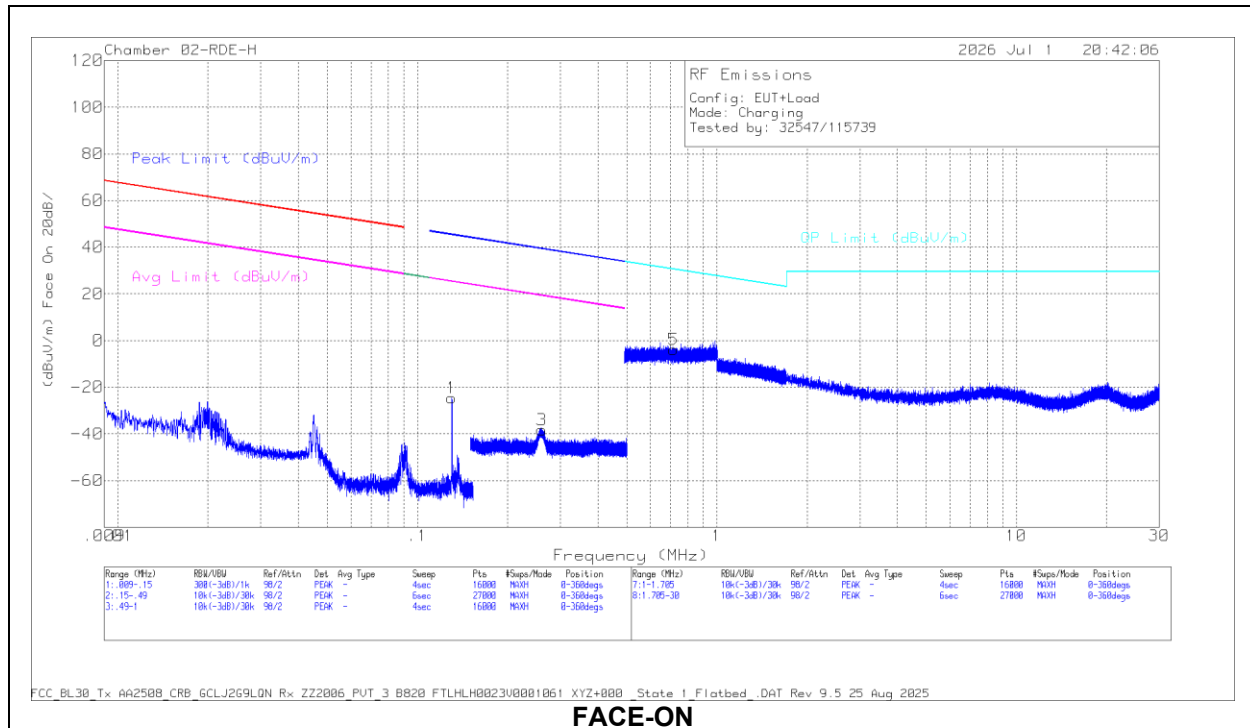
Qp - Quasi-Peak detector

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

DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	230635 ACF (dB/m)	Hybrid Path 30-1000MHz (dB)	Dist Corr 10m (dB)	Corrected Reading (dBuV/m)	RSS-216 QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	87.25	34.91	Qp	13.3	-30.4	-10.5	7.31	30	-22.69	154	245	H
2	221.929	37.35	Qp	16.5	-29.4	-10.5	13.95	30	-16.05	189	126	H
3	284.003	36.64	Qp	19.3	-28.9	-10.5	16.54	37	-20.46	163	105	H
4	32.864	34.79	Qp	24.6	-30.9	-10.5	17.99	30	-12.01	50	113	V
5	39.438	36.48	Qp	20	-31.1	-10.5	14.88	30	-15.12	3	108	V
6	45.034	40.55	Qp	15.9	-30.9	-10.5	15.05	30	-14.95	168	114	V

Qp - Quasi-Peak detector

9.4. CONFIGURATION 4: OPERATING MODE W/ LOAD#2 127.7kHz**9.4.1. FCC TX FUNDAMENTAL & SPURIOUS EMISSIONS (9 kHz - 30 MHz)**

DATA

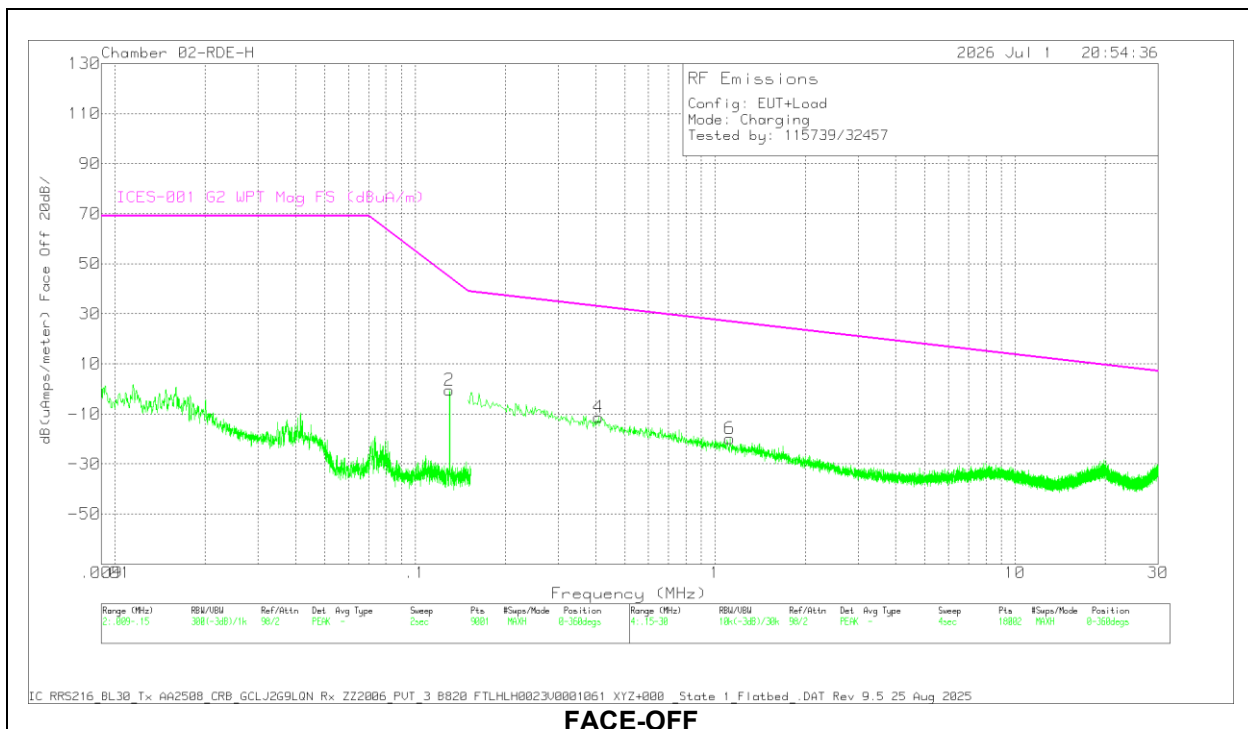
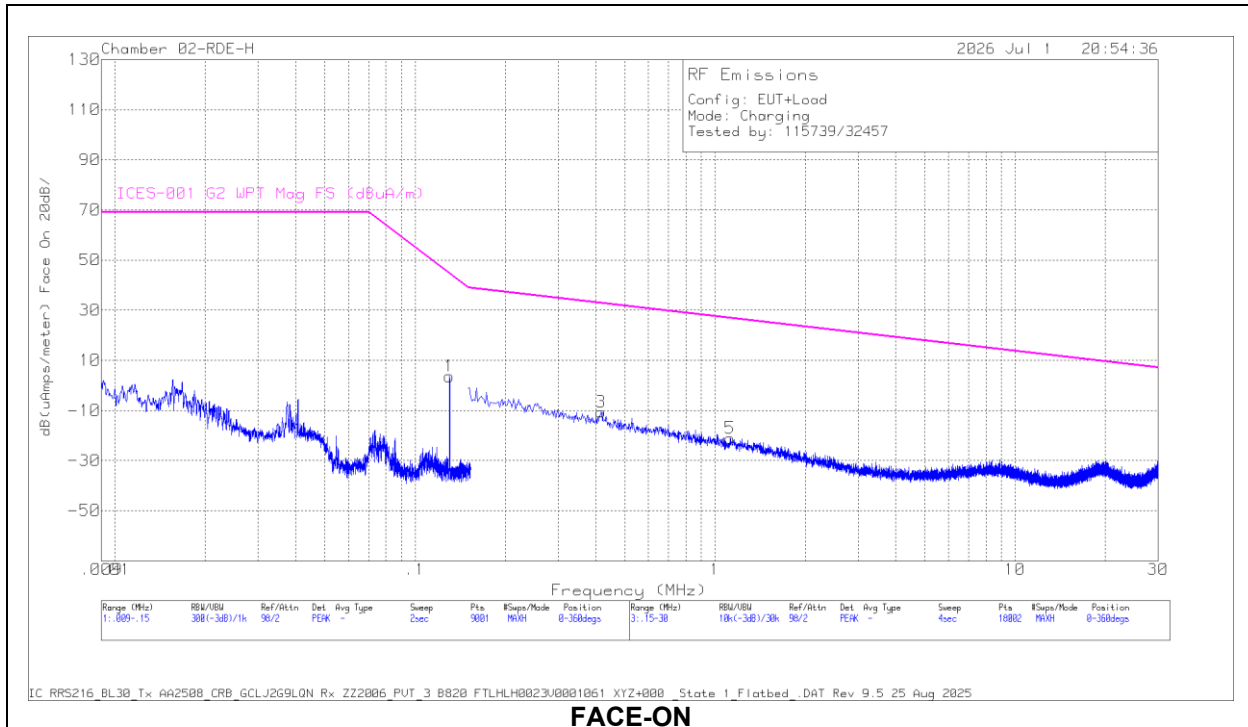
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dB/m)	Loop Path 30Hz-1MHz (dB)	Dist Corr 300m (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.1303	32.23	Pk	55.6	-32.4	-80	-24.57	45.33	-69.9	25.33	-49.9	0-360	Face-on
2	.1303	27.81	Pk	55.6	-32.4	-80	-28.99	45.33	-74.32	25.33	-54.32	0-360	Face-off
3	.2603	17.8	Pk	56	-32.1	-80	-38.3	39.3	-77.6	19.3	-57.6	0-360	Face-on
4	.2582	16.84	Pk	56	-32.1	-80	-39.26	39.37	-78.63	19.37	-58.63	0-360	Face-off

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (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	.717	12.14	Pk	56	-32	-40	-3.86	30.5	-34.36	0-360	Face-on
6	.7003	12.2	Pk	56	-31.9	-40	-3.7	30.71	-34.41	0-360	Face-off

Pk - Peak detector

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



DATA

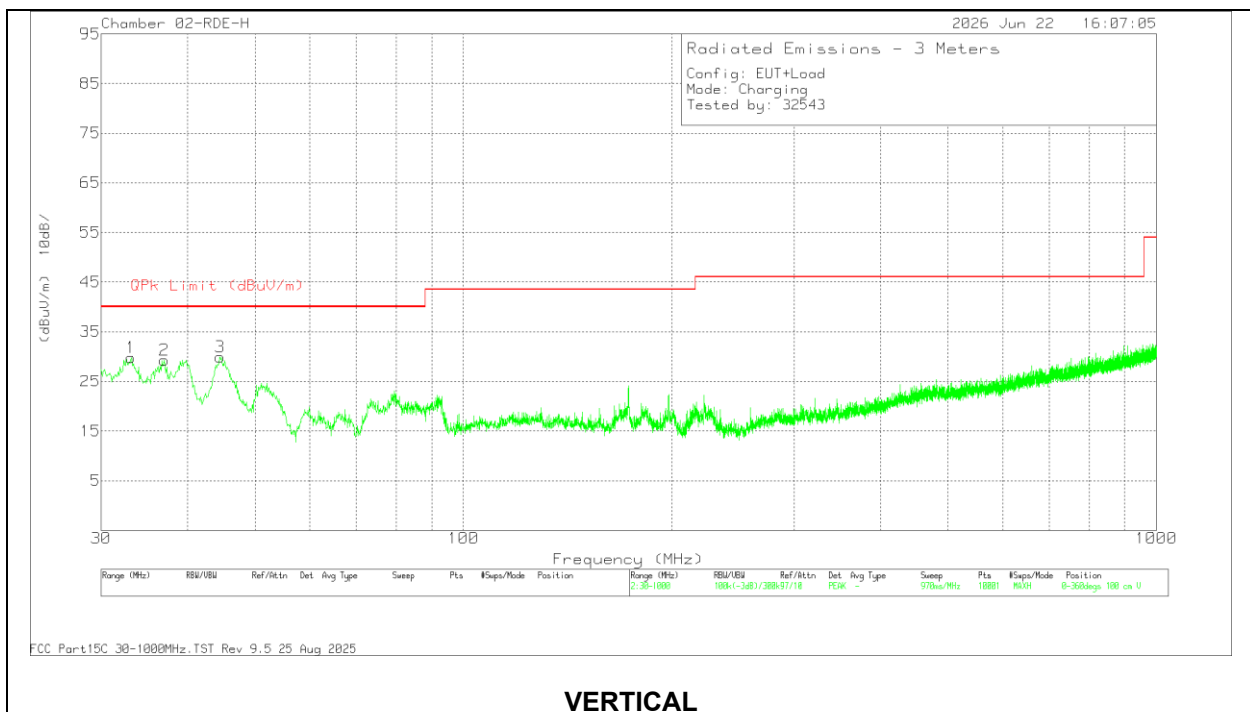
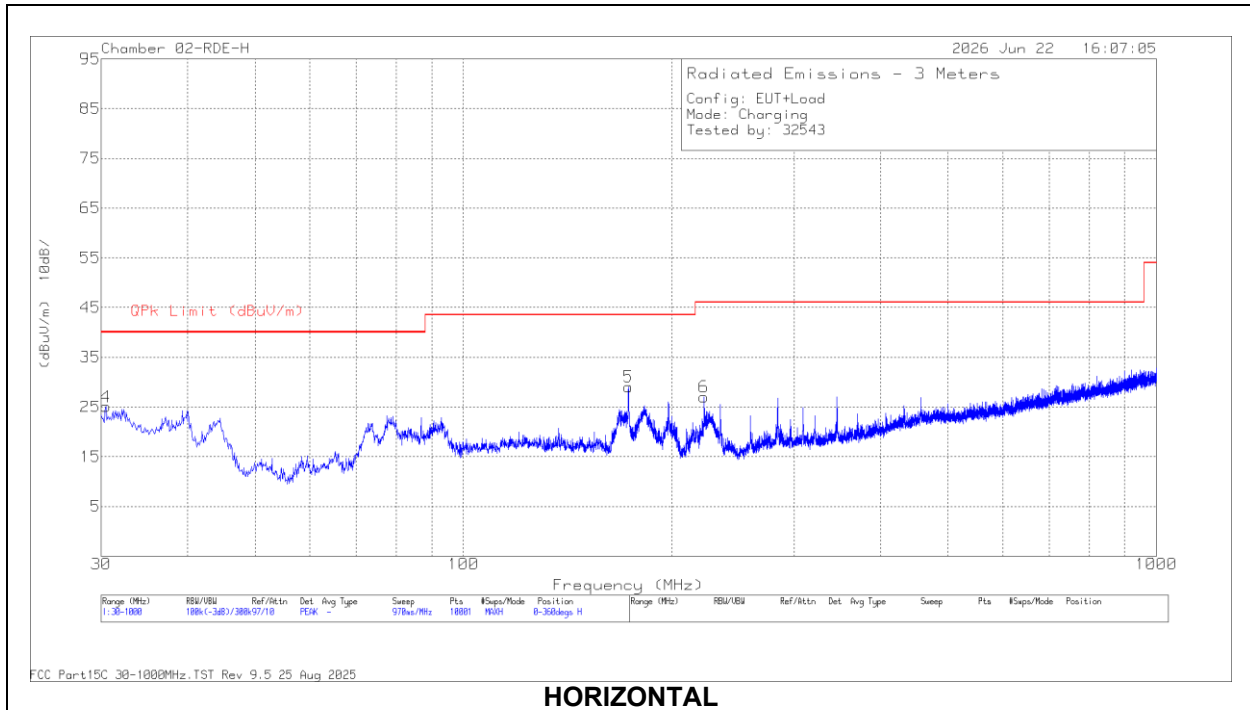
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna H (dB/m)	Loop Path 30Hz-1MHz (dB)	Corrected Reading dB(uAmps/meter)	RSS-216 Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.1303	31.93	Pk	4.1	-32.4	3.63	44.54	-40.91	0-360	Face-on
2	.1303	27.81	Pk	4.1	-32.4	-.49	44.55	-45.04	0-360	Face-off

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna H (dB/m)	Loop Path 100kHz-30MHz (dB)	Corrected Reading dB(uAmps/meter)	RSS-216 Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)	Polarity
3	.4169	19.17	Pk	2.3	-32.1	-10.63	32.83	-43.46	0-360	Face-on
4	.4087	18.24	Pk	2.5	-32	-11.26	32.95	-44.21	0-360	Face-off
5	1.1241	15.9	Pk	-5.1	-31.9	-21.1	26.84	-47.94	0-360	Face-on
6	1.1199	17.24	Pk	-5.1	-31.9	-19.76	26.86	-46.62	0-360	Face-off

Pk - Peak detector

9.4.3 FCC TX SPURIOUS EMISSION (30 - 1000 MHz)



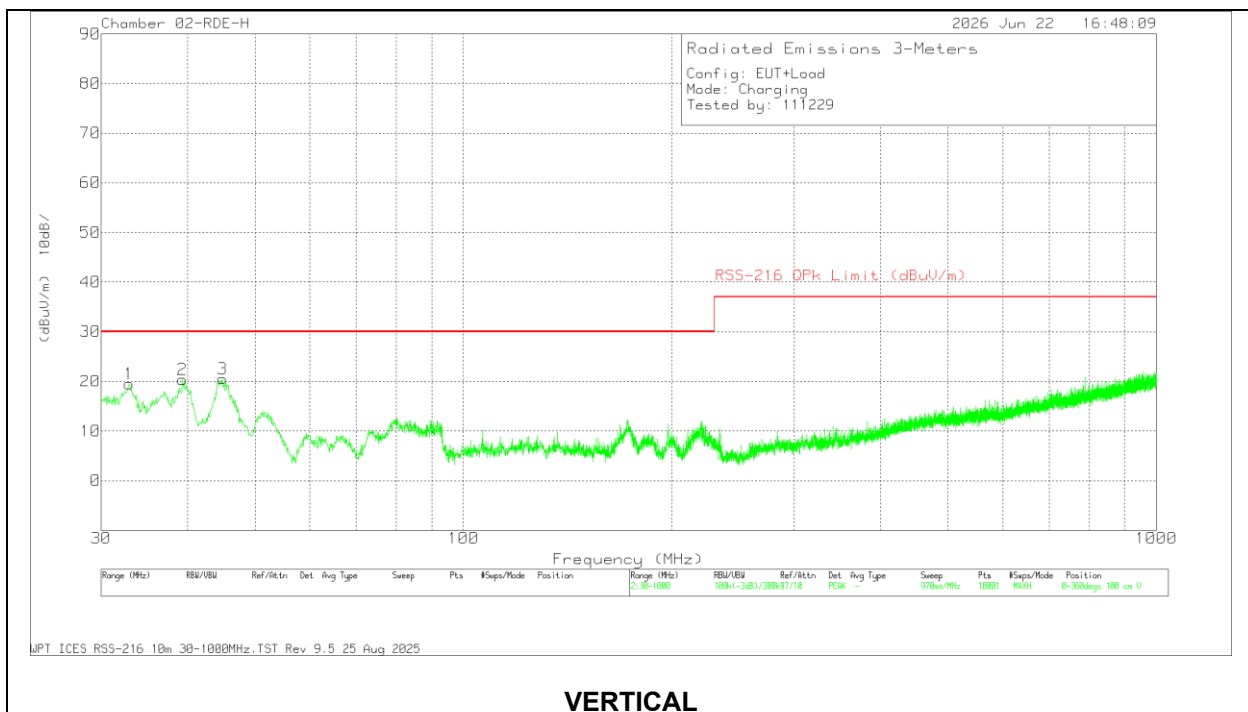
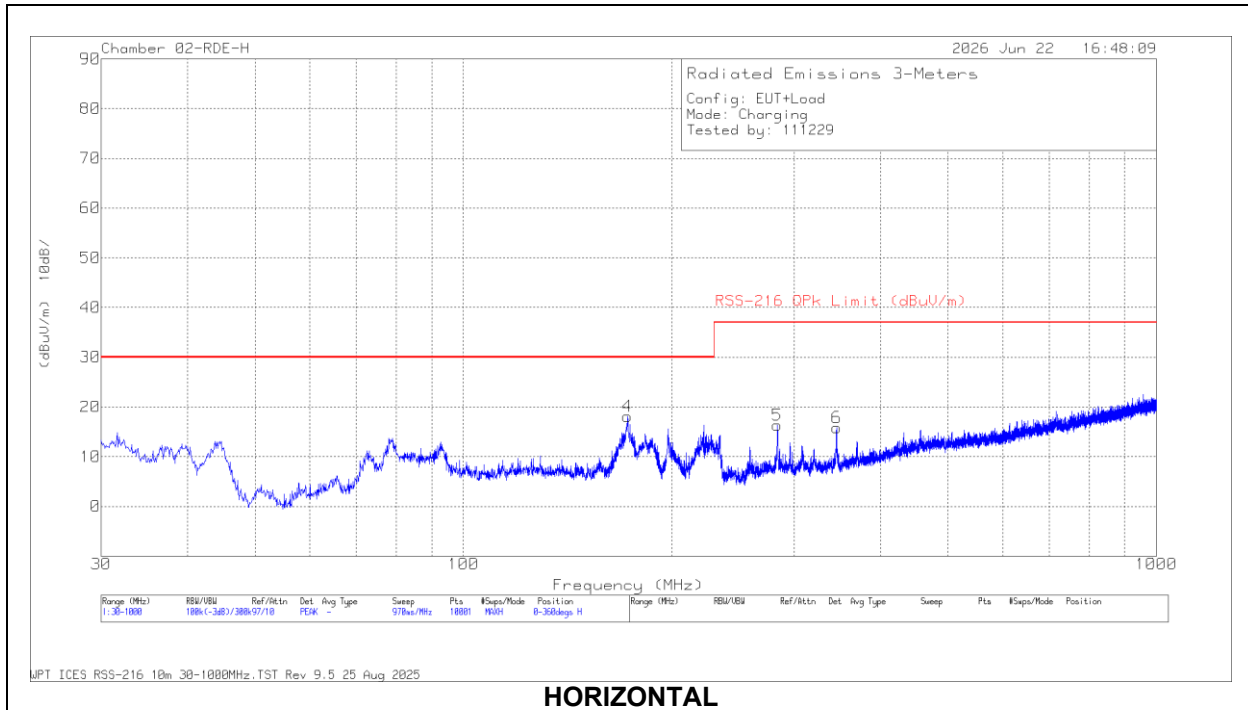
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	230635 ACF (dB/m)	Hybrid Path 30-1000MHz (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	32.6684	30.9	Qp	24.7	-30.8	24.8	40	-15.2	109	109	V
2	39.531	37.75	Qp	20	-31.1	26.65	40	-13.35	55	102	V
3	44.922	43.3	Qp	16	-30.9	28.4	40	-11.6	168	106	V
4	31.8599	24.74	Qp	25.1	-30.8	19.04	40	-20.96	164	271	H
5	* 173.03	39.99	Qp	17.5	-29.4	28.09	43.52	-15.43	189	202	H
6	222.351	38.05	Qp	16.5	-29.4	25.15	46.02	-20.87	190	132	H

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

Qp - Quasi-Peak detector

9.4.4 ISED TX SPURIOUS EMISSION (30 - 1000 MHz)



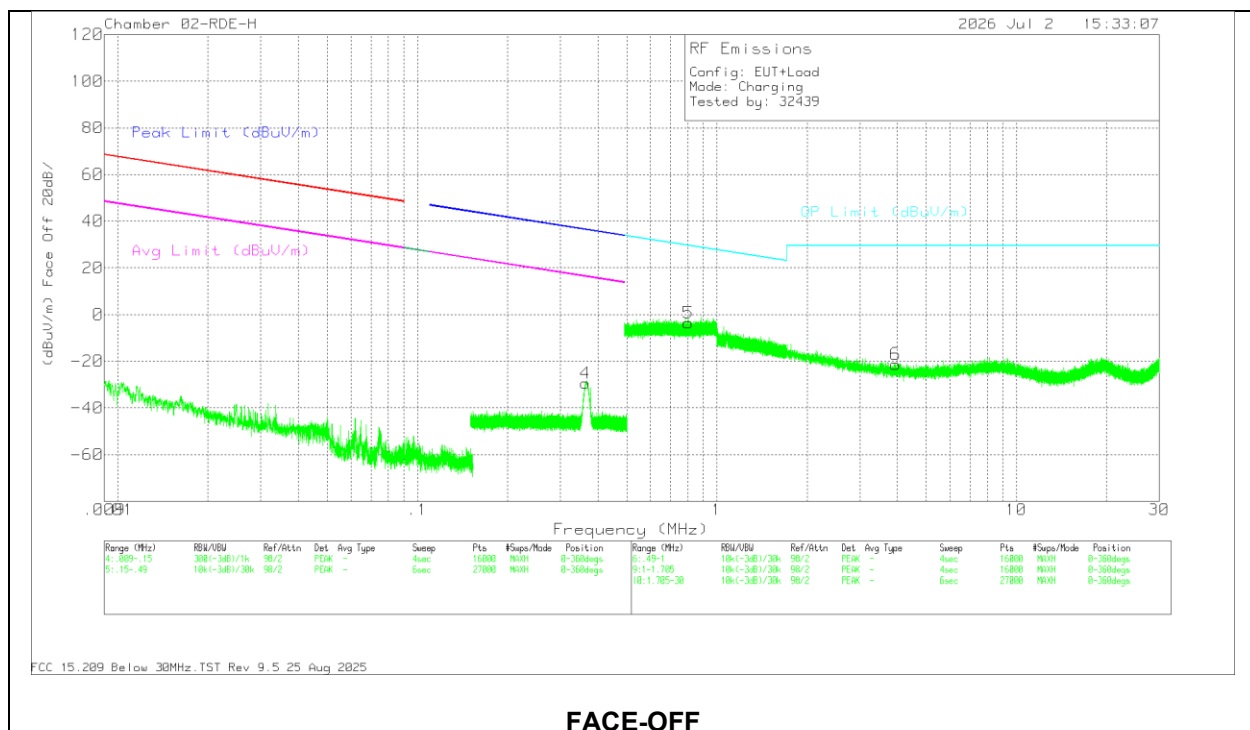
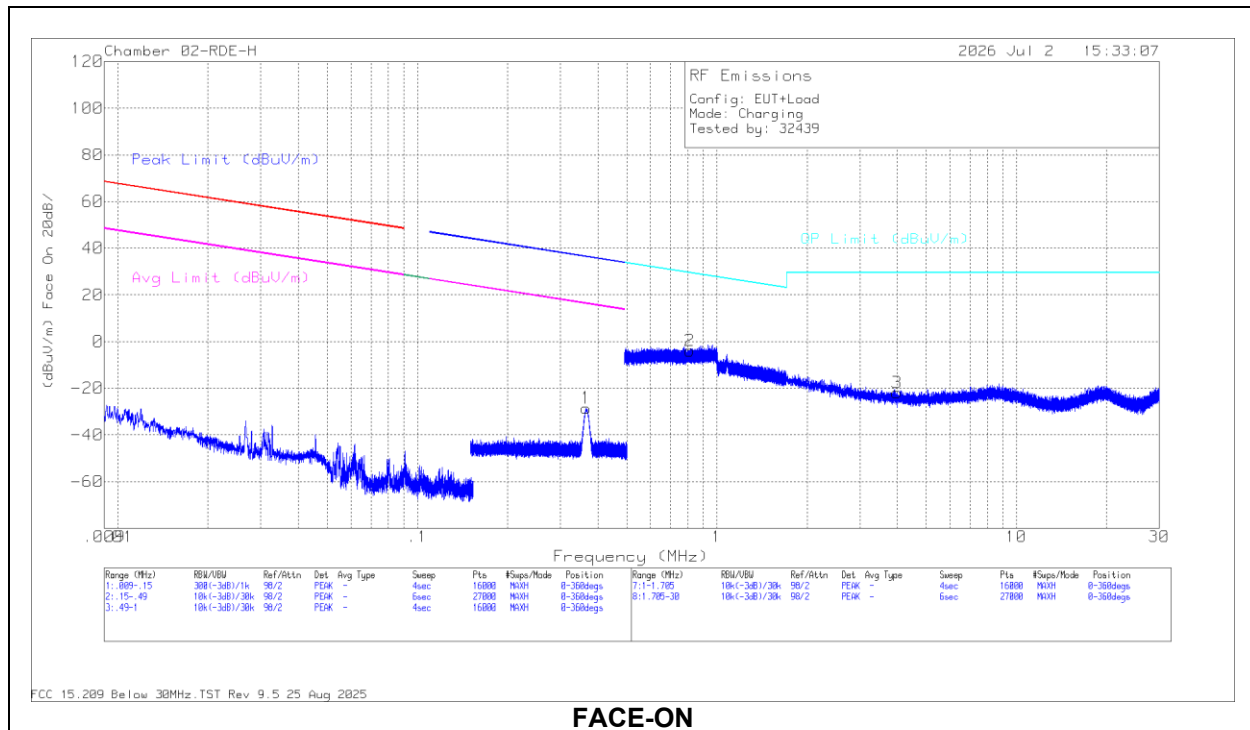
DATA

Markers	Frequency (MHz)	Meter Reading (dBuV)	Det	230635 ACF (dB/m)	Hybrid Path 30-1000MHz (dB)	Dist Corr 10m (dB)	Corrected Reading (dBuV/m)	RSS-216 QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	33.42	31.49	Qp	24.2	-30.9	-10.5	14.29	30	-15.71	52	101	V
2	39.536	37.36	Qp	20	-31.1	-10.5	15.76	30	-14.24	17	112	V
3	44.962	43.04	Qp	15.9	-30.9	-10.5	17.54	30	-12.46	190	102	V
4	172.557	38.42	Qp	17.5	-29.6	-10.5	15.82	30	-14.18	184	118	H
5	283.829	33.46	Qp	19.3	-28.9	-10.5	13.36	37	-23.64	224	108	H
6	345.517	32.22	Qp	20.1	-28.6	-10.5	13.22	37	-23.78	40	104	H

Qp - Quasi-Peak detector

9.5. CONFIGURATION 5: OPERATING MODE W/ LOAD#2 360kHz

9.5.1. FCC TX FUNDAMENTAL & SPURIOUS EMISSION (9kHz – 30MHz)



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (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	.366	27.69	Pk	56	-32.2	-80	-28.51	36.34	-64.85	16.34	-44.85	0-360	Face-on
4	.3641	26.75	Pk	56	-32.2	-80	-29.45	36.38	-65.83	16.38	-45.83	0-360	Face-off

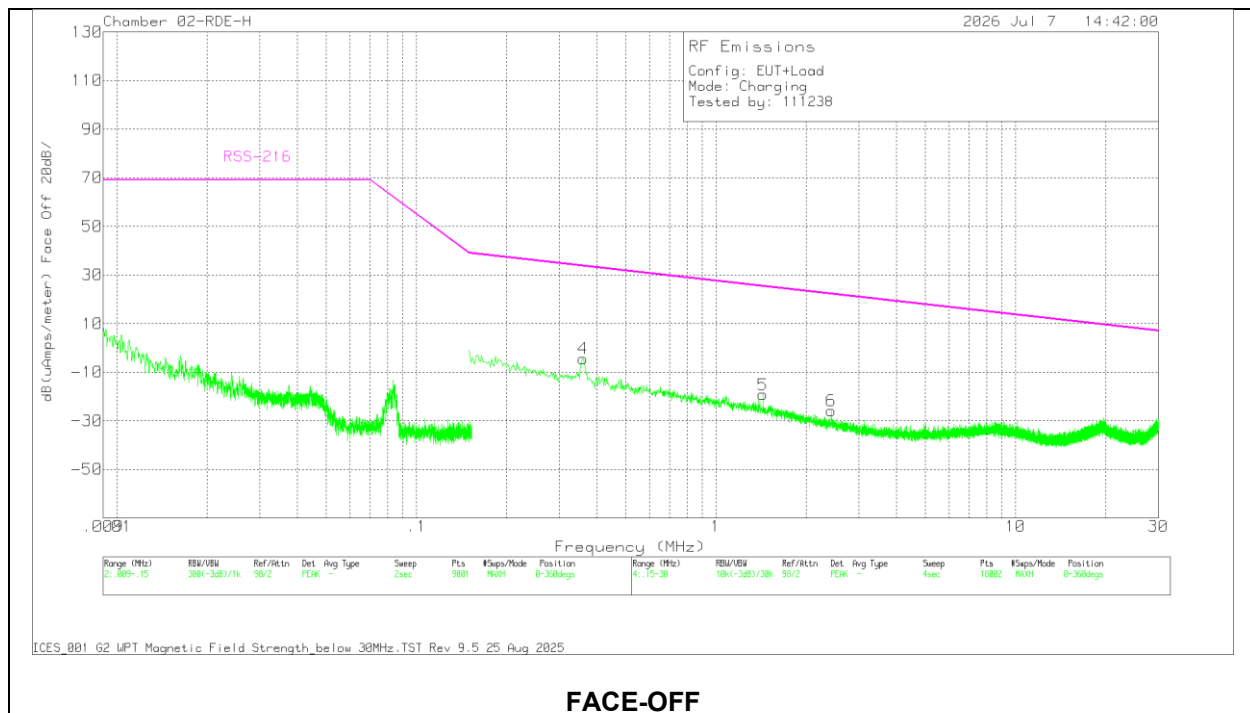
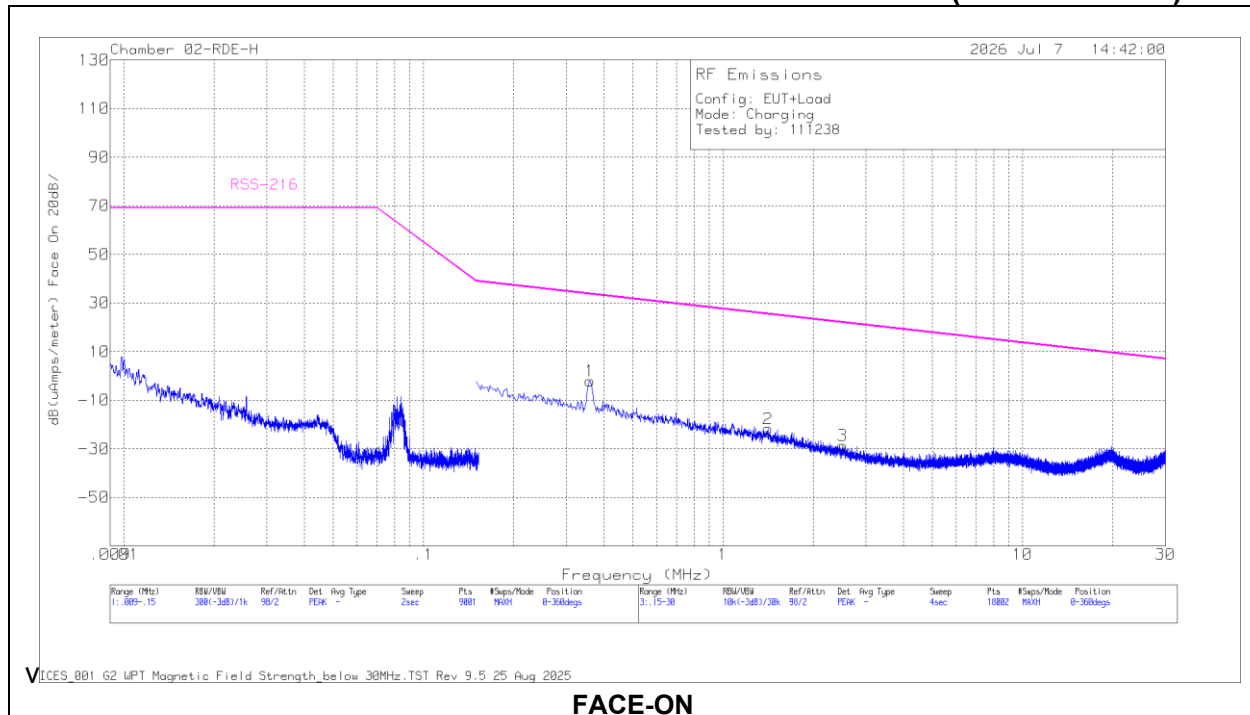
Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dB/m)	Loop Path 30Hz-1MHz (dB)	Dist Corr (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
2	.8116	12.28	Pk	56	-32.2	-40	-3.92	29.43	-33.35	0-360	Face-on
5	.8026	12.63	Pk	56	-32.2	-40	-3.57	29.53	-33.1	0-360	Face-off

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dB/m)	Loop Path 100kHz-30MHz (dB)	Dist Corr (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
3	3.9907	12.86	Pk	37.2	-32	-40	-21.94	29.5	-51.44	0-360	Face-on
6	3.9498	13	Pk	37.3	-31.6	-40	-21.3	29.5	-50.8	0-360	Face-off

Pk - Peak detector

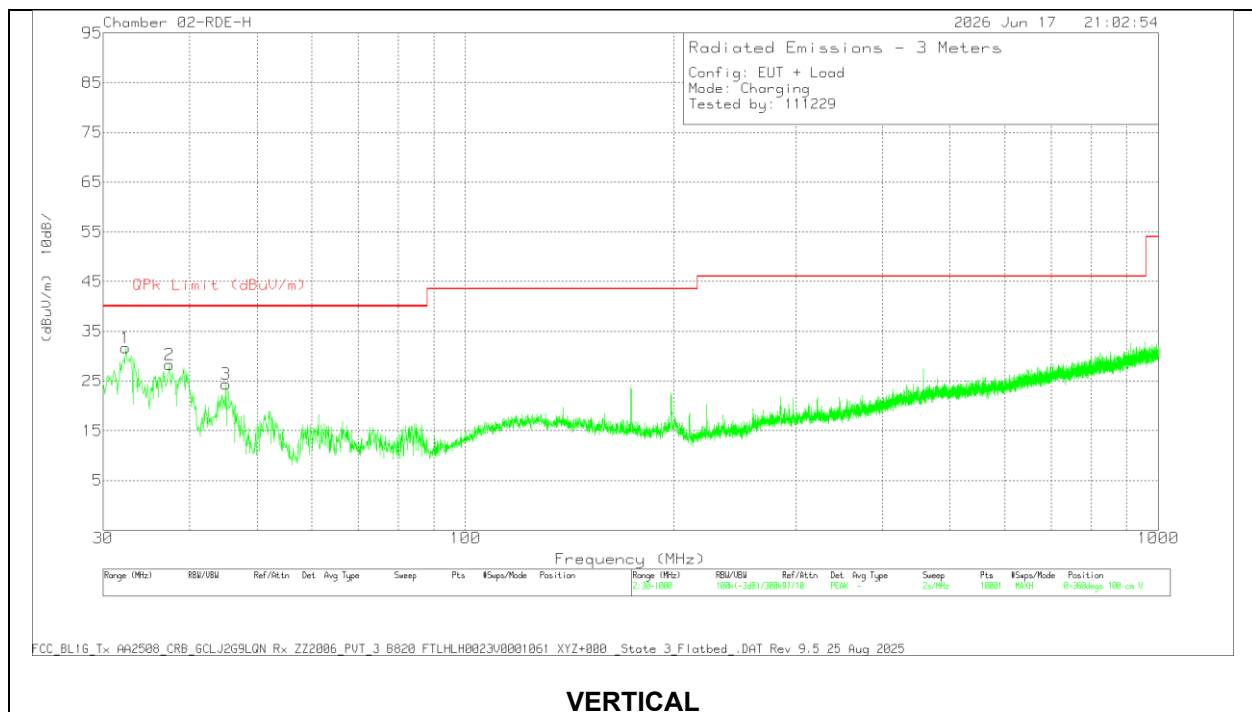
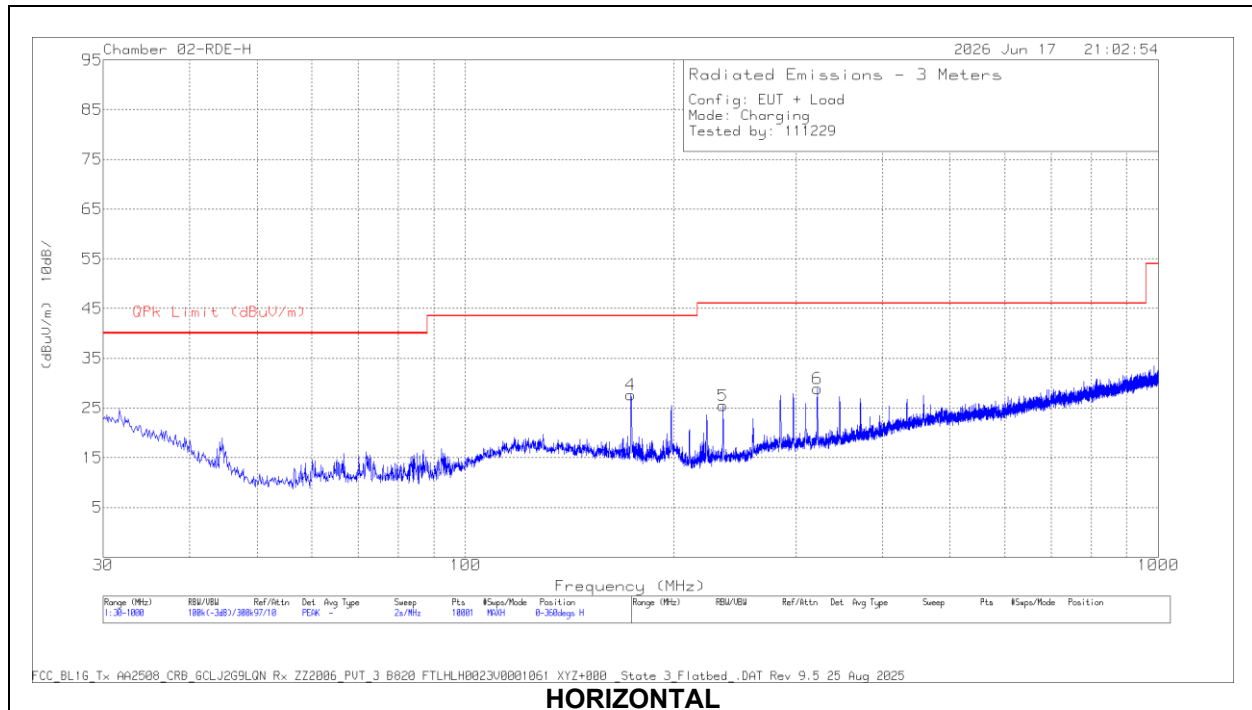
9.5.2. ISED TX FUNDAMENTAL & SPURIOUS EMISSION (9kHz – 30MHz)

DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna H (dB/m)	Loop Path 100kHz-30MHz (dB)	Corrected Reading dB(uAmps/meter)	ICES-001 G2 WPT Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.3597	26.34	Pk	3.7	-32.2	-2.16	33.72	-35.88	0-360	Face-on
2	1.4117	16.6	Pk	-6.7	-31.7	-21.8	25.46	-47.26	0-360	Face-off
3	2.5093	14.5	Pk	-11.3	-31.8	-28.6	21.99	-50.59	0-360	Face-on
4	.3606	24.24	Pk	3.6	-32.2	-4.36	33.7	-38.06	0-360	Face-on
5	1.4333	19.47	Pk	-6.8	-31.9	-19.23	25.37	-44.6	0-360	Face-off
6	2.4298	16.79	Pk	-11	-31.5	-25.71	22.18	-47.89	0-360	Face-off

Pk - Peak detector

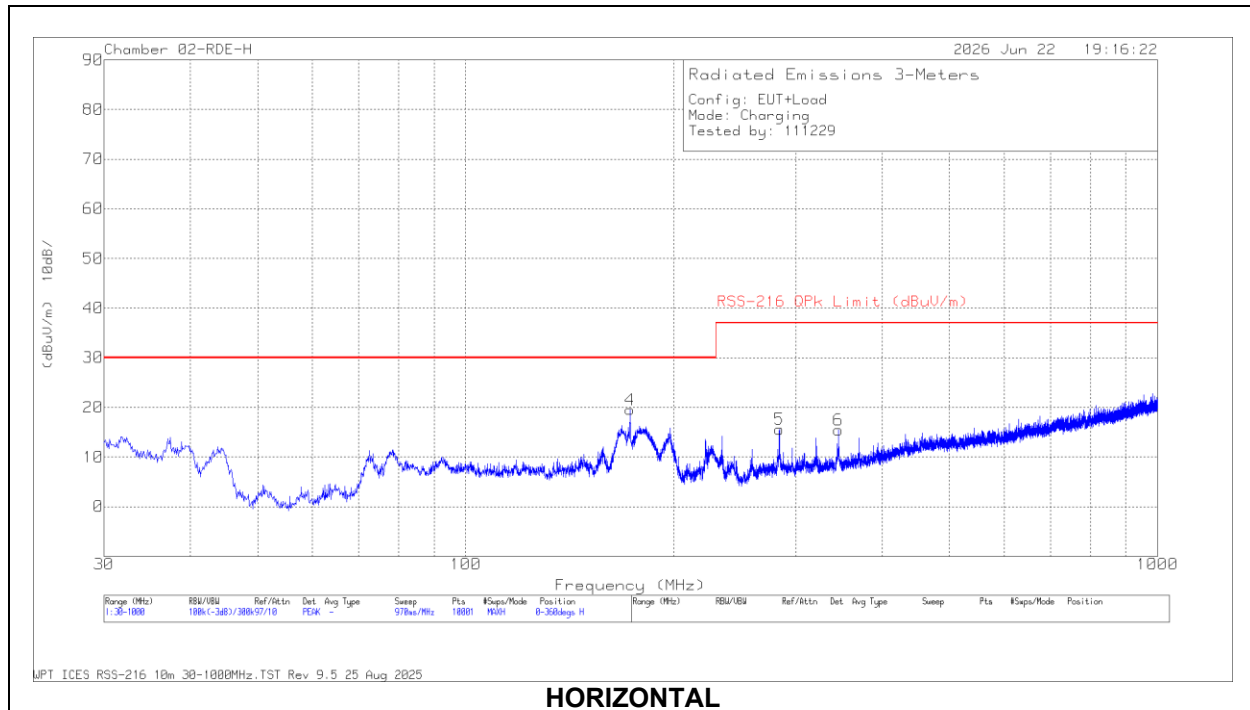
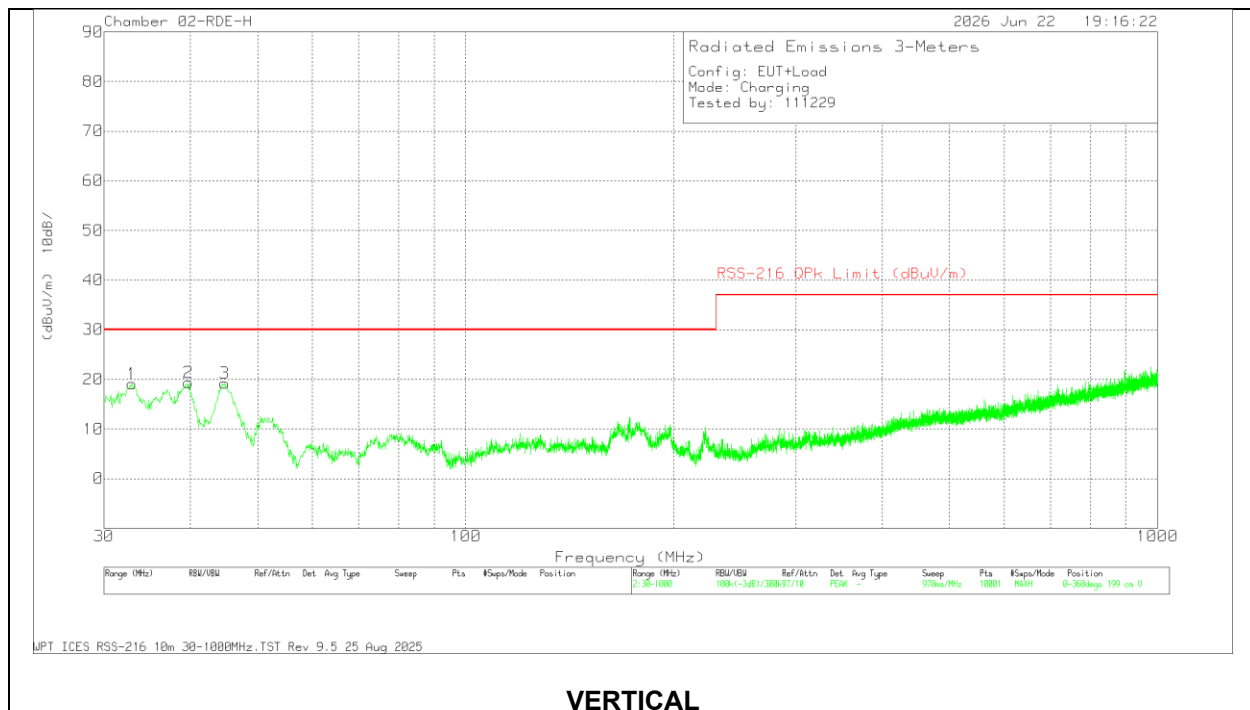
9.5.3. FCC TX SPURIOUS EMISSION (30 - 1000 MHz)



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	230635 ACF (dB/m)	Hybrid Path 30-1000MHz (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	32.448	30.49	Qp	24.8	-30.8	24.49	40	-15.51	32	110	V
2	39.046	31.3	Qp	20.4	-31.2	20.5	40	-19.5	12	123	V
3	45.188	31.83	Qp	15.8	-30.9	16.73	40	-23.27	169	102	V
4	173.281	39.99	Qp	17.5	-29.4	28.09	43.52	-15.43	191	119	H
5	235.174	35.24	Qp	17.2	-29.4	23.04	46.02	-22.98	168	103	H
6	321.806	35.62	Qp	19.9	-28.7	26.82	46.02	-19.2	2	110	H

Qp - Quasi-Peak detector

9.5.4. ISED TX SPURIOUS EMISSION (30 - 1000 MHz)**HORIZONTAL****VERTICAL**

DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	230635 ACF (dB/m)	Hybrid Path 30-1000MHz (dB)	Dist Corr 10m (dB)	Corrected Reading (dBuV/m)	RSS-216 QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	33.123	31.68	Qp	24.4	-30.9	-10.5	14.68	30	-15.32	115	104	V
2	39.236	37.24	Qp	20.2	-31.2	-10.5	15.74	30	-14.26	59	101	V
3	44.865	41.78	Qp	16	-30.9	-10.5	16.38	30	-13.62	173	106	V
4	172.735	39.6	Qp	17.5	-29.5	-10.5	17.1	30	-12.9	202	101	H
5	283.744	32.94	Qp	19.3	-29	-10.5	12.74	37	-24.26	169	102	H
6	345.623	32.92	Qp	20.1	-28.7	-10.5	13.82	37	-23.18	44	110	H

Qp - Quasi-Peak detector

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

Voltage = (85% - 115%); Low voltage, 3.23VDC, Normal, 3.8VDC and High voltage, 4.37VDC.

RESULTS

ID:	26857	Date:	6/17/2026
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10.1. CONFIGURATION 2: OPERATING MODE W/ LOAD #1 127.7kHz

Temperature (°C)	Voltage	Start Up		@ 2 mins		@ 5 mins		@ 10 mins		Signal Level (dBuA)	Correction Factor* (dB)	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	127.77278	25.937	127.7729	25.697	127.77298	25.657	127.773.009	26.314	26.3140	-2.3940	23.9200	44.540	Yes	Pass
+20°C (Normal)		127.772706	26.39	127.772638	26.40	127.772599	26.02	127.772561	26.05	26.4040	-2.3940	24.0100		Yes	Pass
-20°C		127.771917	25.79	127.771917	25.77	127.771917	25.60	127.771924	25.43	25.7930	-2.3940	23.3990		Yes	Pass
+20°C	85% (or manufacturer declared min)	127.772597	25.37	127.772577	25.38	127.772577	25.38	127.772552	25.57	25.5670	-2.3940	23.173	44.540	Yes	Pass
	115% (or manufacturer declared max)	127.772549	26.19	127.772537	26.19	127.772530	26.14	127.772518	26.02	26.1940	-2.3940	23.800		Yes	Pass

*Note: Field strength at 3m at nominal temperature of 20°C was H-Filed 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 #1 360kHz

Temperature (°C)	Voltage	Start Up		@ 2 mins		@ 5 mins		@ 10 mins		Signal Level (dBuA)	Correction Factor* (dB)	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	360.00191	31.088	360.00245	30.422	360.00256	30.68	360.00293	29.871	31.0880	-16.4380	14.6500	33.760	Yes	Pass
+20°C (Normal)		360.000746	33.28	360.000765	31.17	360.000731	32.04	360.000704	32.13	33.2780	-16.4380	16.8400		Yes	Pass
-20°C		359.998574	30.30	359.998547	29.90	359.998555	29.78	359.998566	29.32	30.3030	-16.4380	13.8650		Yes	Pass
+20°C	85% (or manufacturer declared min)	360.007960	31.01	360.008360	31.07	360.008040	31.00	360.007450	31.05	31.0720	-16.4380	14.634	33.760	Yes	Pass
	115% (or manufacturer declared max)	360.007020	32.09	360.000835	32.12	360.000691	32.14	360.000676	32.17	32.1720	-16.4380	15.734		Yes	Pass

*Note: Field strength at 3m at nominal temperature of 20°C was H-Filed 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.

10.3. CONFIGURATION 4: OPERATING MODE W/ LOAD #2 127.7kHz

Temperature (°C)	Voltage	Start Up		@ 2 mins		@ 5 mins		@ 10 mins		Signal Level (dBuA)	Correction Factor* (dB)	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	127.77273	38.836	127.77288	39.004	127.77297	39.029	127.77311	39.014	39.0290	-37.6590	1.3700	44.540	Yes	Pass
+20°C (Normal)		127.772526	41.29	127.772523	41.29	127.772523	41.28	127.772522	41.27	41.2890	-37.6590	3.6300		Yes	Pass
-20°C		127.771995	40.21	127.771953	39.87	127.771927	39.62	127.771915	39.54	40.2070	-37.6590	2.5480		Yes	Pass
+20°C	85% (or manufacturer declared min)	127.772762	38.59	127.772724	38.63	127.772692	38.62	127.772653	38.58	38.6310	-37.6590	0.972	44.540	Yes	Pass
	115% (or manufacturer declared max)	127.772526	41.26	127.772519	40.48	127.772536	40.50	127.772541	40.48	41.2640	-37.6590	3.605		Yes	Pass

*Note: Field strength at 3m at nominal temperature of 20°C was H-Filed 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.

10.4. CONFIGURATION 5: OPERATING MODE W/ LOAD #2 360kHz

Temperature (°C)	Voltage	Start Up		@ 2 mins		@ 5 mins		@ 10 mins		Signal Level (dBuA)	Correction Factor* (dB)	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	359.99947	26.019	359.99848	25.983	360.00036	25.914	360.0007	25.885	26.0190	-28.0010	-1.9820	33.720	Yes	Pass
+20°C (Normal)		359.990640	25.73	359.991560	25.71	359.990480	25.80	359.991130	25.84	25.8410	-28.0010	-2.1600		Yes	Pass
-20°C		359.997455	26.68	359.997379	26.83	359.997310	26.91	359.997442	26.86	26.9080	-28.0010	-1.0930		Yes	Pass
+20°C	85% (or manufacturer declared min)	359.999517	25.09	359.999377	24.88	359.999407	24.87	359.999183	24.88	25.0880	-28.0010	-2.913	33.720	Yes	Pass
	115% (or manufacturer declared max)	359.999157	25.85	359.999041	25.86	359.999087	25.86	359.999087	25.85	25.8560	-28.0010	-2.145		Yes	Pass

*Note: Field strength at 3m at nominal temperature of 20°C was H-Filed 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 HOT (L1) and NEUTRAL (L2) 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



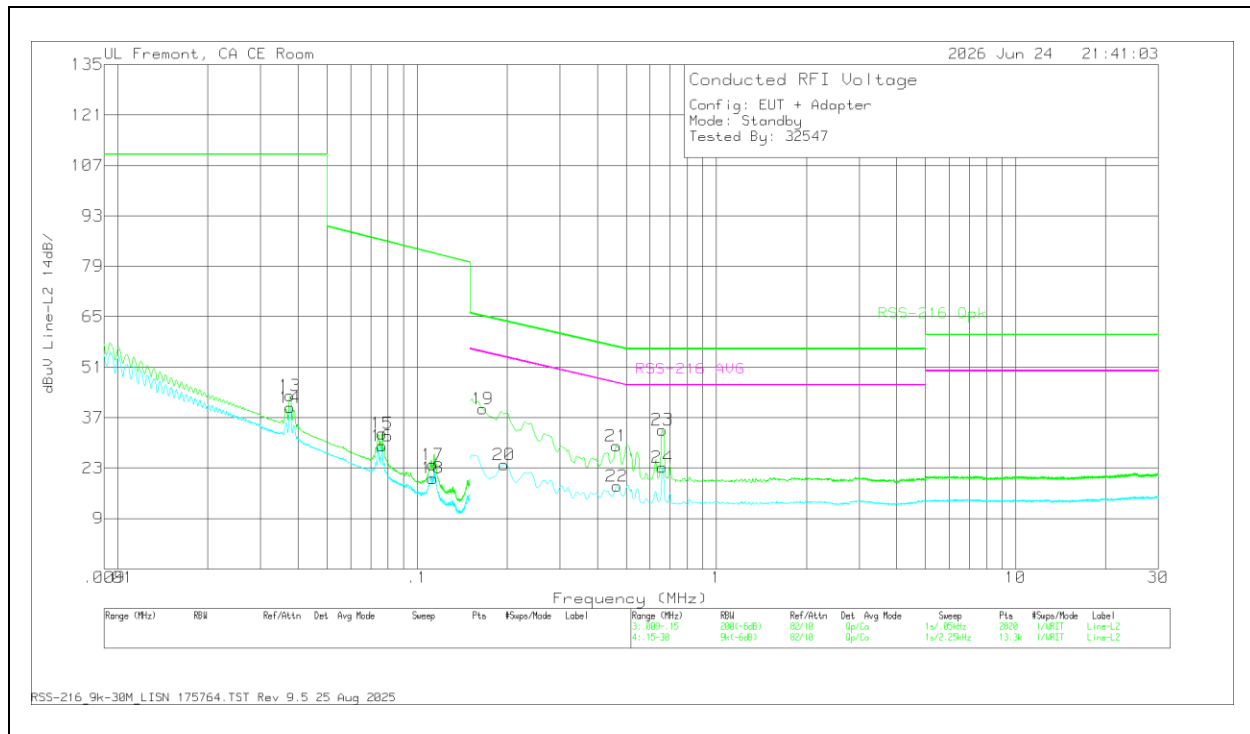
DATA

Range 1: Line-L2 .009 - .15MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)
2	.039	18.01	Ca	.5	0	10.3	10	38.81	-	-
4	.0797	6.05	Ca	.2	0	9.6	10	25.85	-	-
6	.1184	1.33	Ca	.1	0	9.5	10	20.93	-	-
1	.039	21.5	Qp	.5	0	10.3	10	42.3	110	-67.7
3	.0796	9.69	Qp	.2	0	9.6	10	29.49	85.77	-56.28
5	.1184	5.1	Qp	.1	0	9.5	10	24.7	82.16	-57.46

Range 2: Line-L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)	RSS-216 AVG (dBuV)	Margin (dB)
8	.1905	4.35	Ca	.1	0	9.4	10	23.85	-	-	54.01	-30.16
10	.4695	-1.69	Ca	0	0	9.3	10	17.61	-	-	46.52	-28.91
12	.6608	4.34	Ca	0	.1	9.3	10	23.74	-	-	46	-22.26
7	.1905	18.95	Qp	.1	0	9.4	10	38.45	64.01	-25.56	-	-
9	.4706	9.27	Qp	0	0	9.3	10	28.57	56.5	-27.93	-	-
11	.6608	13.95	Qp	0	.1	9.3	10	33.35	56	-22.65	-	-

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS**DATA**

Range 3: Line-L2 .009 - .15MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)
14	.0376	18.88	Ca	.6	0	10.3	10	39.78	-	-
16	.0764	9.21	Ca	.2	0	9.7	10	29.11	-	-
18	.1129	.58	Ca	.1	0	9.5	10	20.18	-	-
13	.0376	22.19	Qp	.6	0	10.3	10	43.09	110	-66.91
15	.0764	12.68	Qp	.2	0	9.7	10	32.58	86.15	-53.57
17	.1129	4.28	Qp	.1	0	9.5	10	23.88	82.59	-58.71

Range 4: Line-L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)	RSS-216 AVG (dBuV)	Margin (dB)
20	.195	4.41	Ca	.1	0	9.4	10	23.91	-	-	53.82	-29.91
22	.465	-1.52	Ca	0	.1	9.4	10	17.98	-	-	46.6	-28.62
24	.6608	3.83	Ca	0	.1	9.3	10	23.23	-	-	46	-22.77
19	.1658	19.92	Qp	.1	0	9.4	10	39.42	65.17	-25.75	-	-
21	.4628	9.84	Qp	0	0	9.3	10	29.14	56.64	-27.5	-	-
23	.6608	14.18	Qp	0	.1	9.3	10	33.58	56	-22.42	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

11.2. CONFIGURATION 2: OPERATING MODE W/ LOAD #1 127.7kHz

LINE 1 RESULTS

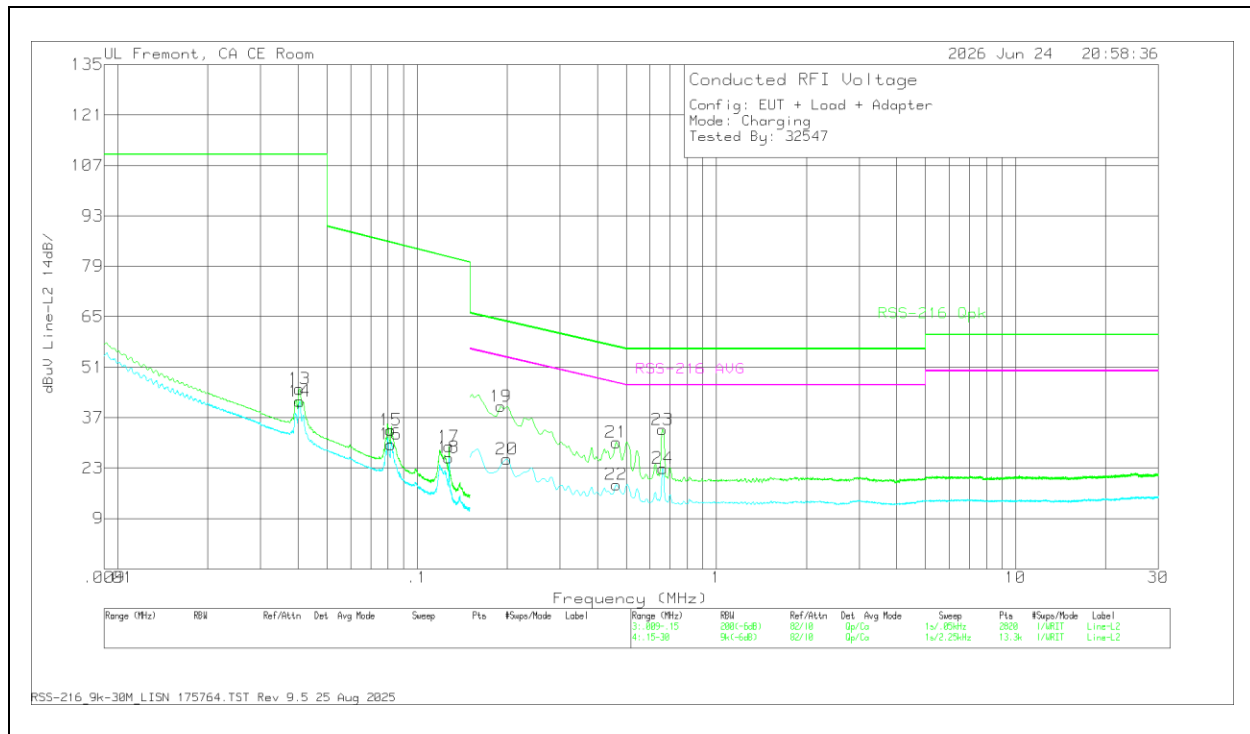


DATA

Range 1: Line-L2 .009 - .15MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)
2	.0392	19.4	Ca	.5	0	10.3	10	40.2	-	-
4	.0801	7.61	Ca	.2	0	9.6	10	27.41	-	-
6	.1278	7.2	Ca	.1	0	9.5	10	26.8	-	-
1	.0392	22.81	Qp	.5	0	10.3	10	43.61	110	-66.39
3	.08	11.35	Qp	.2	0	9.6	10	31.15	85.72	-54.57
5	.1278	9.62	Qp	.1	0	9.5	10	29.22	81.46	-52.24

Range 2: Line-L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)	RSS-216 AVG (dBuV)	Margin (dB)
8	.1916	5.04	Ca	.1	0	9.4	10	24.54	-	-	53.97	-29.43
10	.474	-1.87	Ca	0	0	9.3	10	17.43	-	-	46.44	-29.01
12	.663	4.28	Ca	0	.1	9.4	10	23.78	-	-	46	-22.22
7	.1905	20.1	Qp	.1	0	9.4	10	39.6	64.01	-24.41	-	-
9	.474	9.55	Qp	0	0	9.3	10	28.85	56.44	-27.59	-	-
11	.663	13.93	Qp	0	.1	9.4	10	33.43	56	-22.57	-	-

Qp - Quasi-Peak detector
 Ca - CISPR average detection

LINE 2 RESULTS**DATA**

Range 3: Line-L2 .009 - .15MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)
14	.0405	20.85	Ca	.5	0	10.2	10	41.55	-	-
16	.0817	9.78	Ca	.2	0	9.6	10	29.58	-	-
18	.1277	6.31	Ca	.1	0	9.5	10	25.91	-	-
13	.0405	24.25	Qp	.5	0	10.2	10	44.95	110	-65.05
15	.0817	13.72	Qp	.2	0	9.6	10	33.52	85.54	-52.02
17	.1277	9.35	Qp	.1	0	9.5	10	28.95	81.47	-52.52

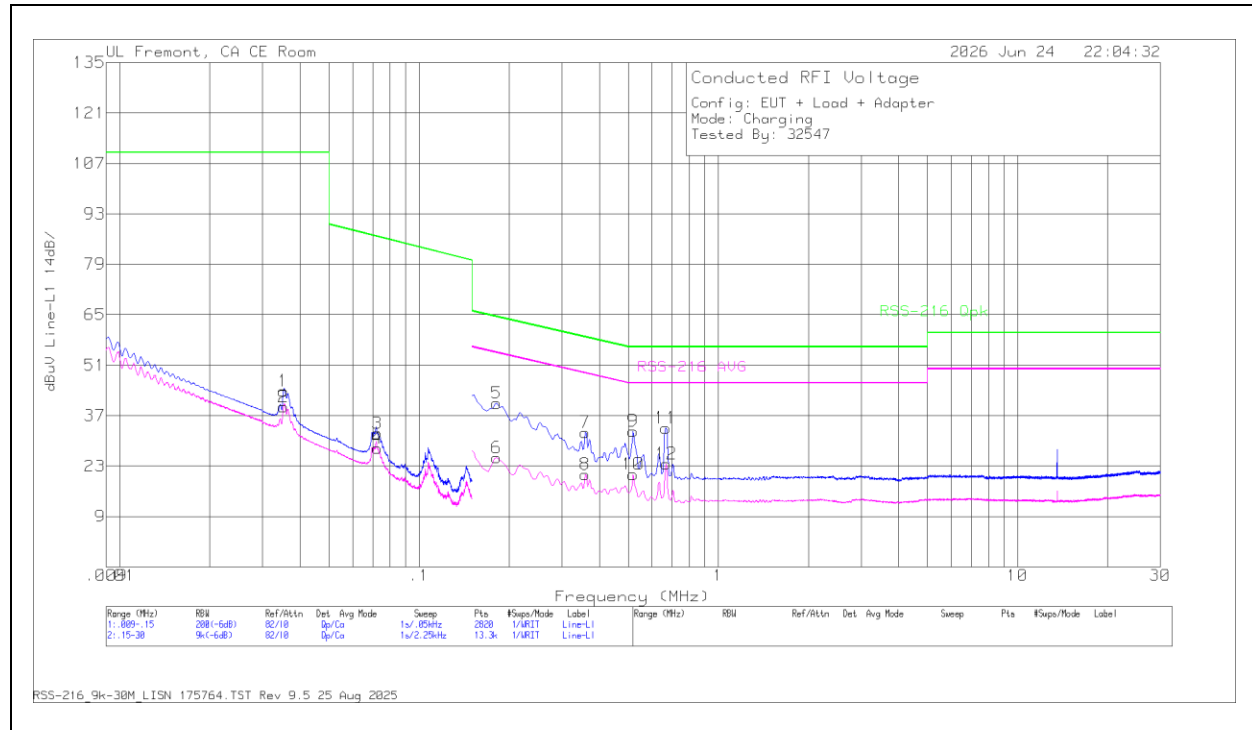
Range 4: Line-L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)	RSS-216 AVG (dBuV)	Margin (dB)
20	.1995	5.96	Ca	.1	0	9.4	10	25.46	-	-	53.63	-28.17
22	.4628	-88	Ca	0	0	9.3	10	18.42	-	-	46.64	-28.22
24	.663	3.42	Ca	0	.1	9.4	10	22.92	-	-	46	-23.08
19	.1905	20.62	Qp	.1	0	9.4	10	40.12	64.01	-23.89	-	-
21	.4628	10.83	Qp	0	0	9.3	10	30.13	56.64	-26.51	-	-
23	.6608	14.28	Qp	0	.1	9.3	10	33.68	56	-22.32	-	-

Qp - Quasi-Peak detector

Ca - CISPR average detection

11.3. CONFIGURATION 3: OPERATING MODE W/ LOAD #1 360kHz

LINE 1 RESULTS

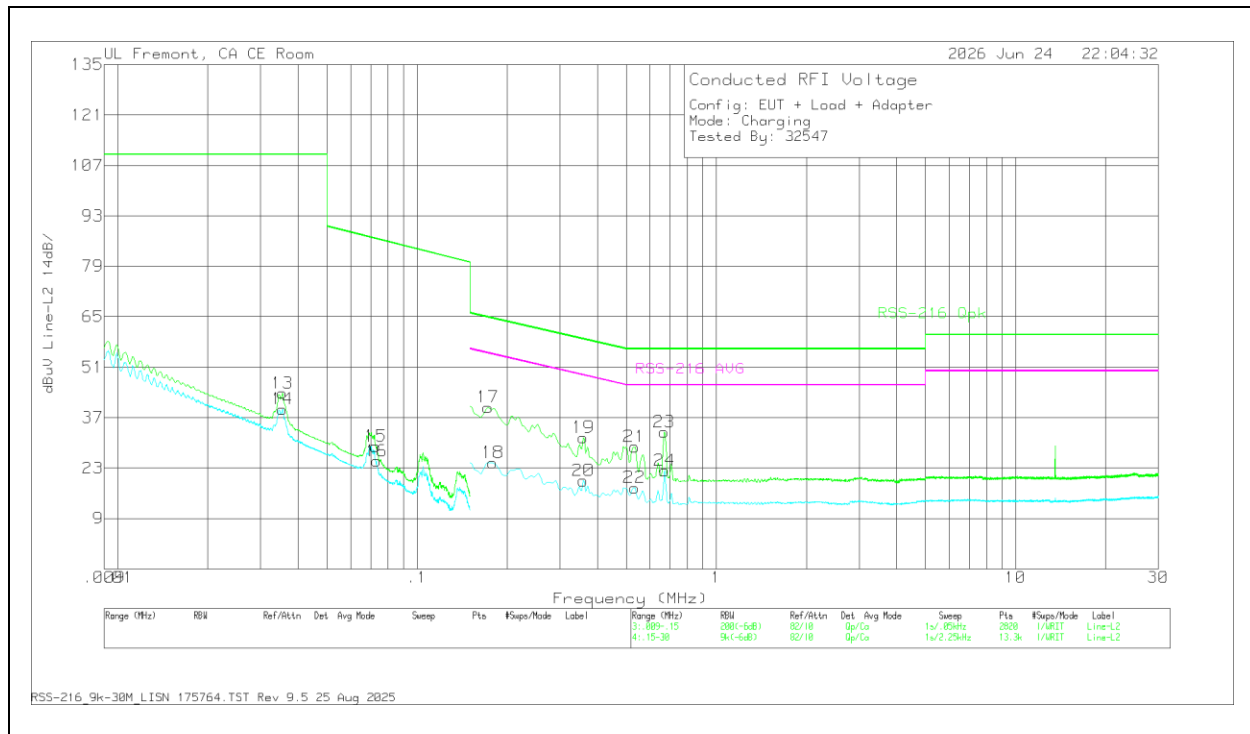


DATA

Range 1: Line-L1 .009 - .15MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)
2	.0352	18.34	Ca	.7	0	10.4	10	39.44	-	-
4	.0726	8.08	Ca	.2	0	9.7	10	27.98	-	-
1	.0352	22.71	Qp	.7	0	10.4	10	43.81	110	-66.19
3	.0726	12.17	Qp	.2	0	9.7	10	32.07	86.61	-54.54

Range 2: Line-L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)	RSS-216 AVG (dBuV)	Margin (dB)
6	.1815	5.8	Ca	.1	0	9.4	10	25.3	-	-	54.42	-29.12
8	.3593	1.38	Ca	0	0	9.3	10	20.68	-	-	48.75	-28.07
10	.519	1.41	Ca	0	0	9.3	10	20.71	-	-	46	-25.29
12	.6698	4.09	Ca	0	.1	9.4	10	23.59	-	-	46	-22.41
5	.1815	20.93	Qp	.1	0	9.4	10	40.43	64.42	-23.99	-	-
7	.3593	13.03	Qp	0	0	9.3	10	32.33	58.75	-26.42	-	-
9	.519	13.4	Qp	0	0	9.3	10	32.7	56	-23.3	-	-
11	.6675	14.04	Qp	0	.1	9.4	10	33.54	56	-22.46	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS**DATA**

Range 3: Line-L2 .009 - .15MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)
14	.0355	18.24	Ca	.7	0	10.4	10	39.34	-	-
16	.0732	5.05	Ca	.2	0	9.7	10	24.95	-	-
13	.0355	22.68	Qp	.7	0	10.4	10	43.78	110	-66.22
15	.0727	9.14	Qp	.2	0	9.7	10	29.04	86.59	-57.55

Range 4: Line-L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)	RSS-216 AVG (dBuV)	Margin (dB)
18	.1793	5	Ca	.1	0	9.4	10	24.5	-	-	54.52	-30.02
20	.3593	.22	Ca	0	0	9.3	10	19.52	-	-	48.75	-29.23
22	.5325	-1.84	Ca	0	.1	9.3	10	17.56	-	-	46	-28.44
24	.672	2.79	Ca	0	.1	9.4	10	22.29	-	-	46	-23.71
17	.1725	20.37	Qp	.1	0	9.4	10	39.87	64.84	-24.97	-	-
19	.3593	12.15	Qp	0	0	9.3	10	31.45	58.75	-27.3	-	-
21	.5325	9.5	Qp	0	.1	9.3	10	28.9	56	-27.1	-	-
23	.6698	13.5	Qp	0	.1	9.4	10	33	56	-23	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

11.4 CONFIGURATION 4: OPERATING MODE W/ LOAD #2 127.7kHz

LINE 1 RESULTS

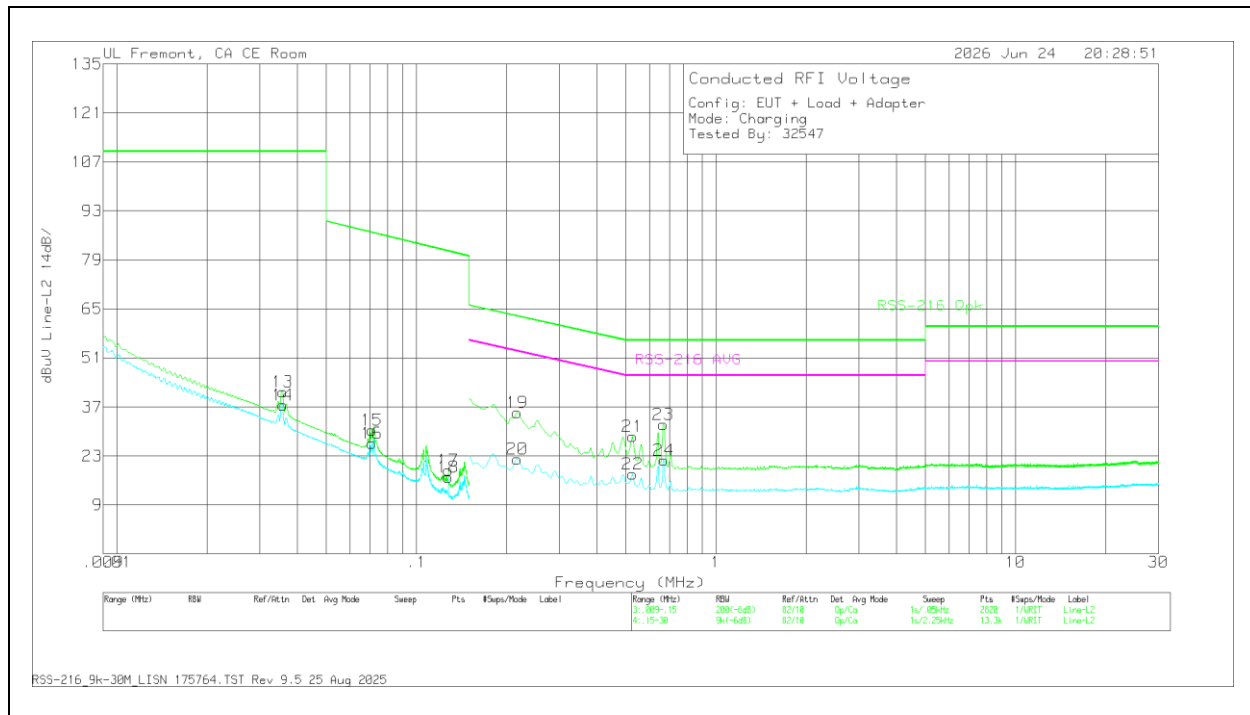


DATA

Range 1: Line-L1 .009 - .15MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)	
2	.0358	15.74	Ca	.6	0	10.4	10	36.74	-	-	
4	.0721	7.86	Ca	.2	0	9.7	10	27.76	-	-	
6	.1278	-2.9	Ca	.1	0	9.5	10	16.7	-	-	
1	.0358	19.75	Qp	.6	0	10.4	10	40.75	110	-69.25	
3	.0721	11.75	Qp	.2	0	9.7	10	31.65	86.67	-55.02	
5	.1278	-5.1	Qp	.1	0	9.5	10	19.09	81.46	-62.37	

Range 2: Line-L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)	RSS-216 AVG (dBuV)	Margin (dB)
8	.2175	2.54	Ca	0	0	9.4	10	21.94	-	-	52.91	-30.97
10	.5235	-1.79	Ca	0	0	9.3	10	17.51	-	-	46	-28.49
12	.6698	3.26	Ca	0	.1	9.4	10	22.76	-	-	46	-23.24
7	.2175	15.9	Qp	0	0	9.4	10	35.3	62.91	-27.61	-	-
9	.5235	8.35	Qp	0	0	9.3	10	27.65	56	-28.35	-	-
11	.6675	12.58	Qp	0	.1	9.4	10	32.08	56	-23.92	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS**DATA**

Range 3: Line-L2 .009 - .15MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)
14	.0358	16.42	Ca	.7	0	10.4	10	37.52	-	-
16	.0711	6.68	Ca	.2	0	9.7	10	26.58	-	-
18	.1278	-2.65	Ca	.1	0	9.5	10	16.95	-	-
13	.0358	20.18	Qp	.7	0	10.4	10	41.28	110	-68.72
15	.0712	10.47	Qp	.2	0	9.7	10	30.37	86.79	-56.42
17	.1278	-6.7	Qp	.1	0	9.5	10	18.93	81.46	-62.53

Range 4: Line-L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)	RSS-216 AVG (dBuV)	Margin (dB)
20	.2175	2.64	Ca	.1	0	9.4	10	22.14	-	-	52.91	-30.77
22	.5258	-1.52	Ca	0	.1	9.3	10	17.88	-	-	46	-28.12
24	.6698	2.26	Ca	0	.1	9.4	10	21.76	-	-	46	-24.24
19	.2175	15.95	Qp	.1	0	9.4	10	35.45	62.91	-27.46	-	-
21	.5258	9.16	Qp	0	.1	9.3	10	28.56	56	-27.44	-	-
23	.6675	12.46	Qp	0	.1	9.4	10	31.96	56	-24.04	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

11.5 CONFIGURATION 5: OPERATING MODE W/ LOAD #2 360kHz

LINE 1 RESULTS

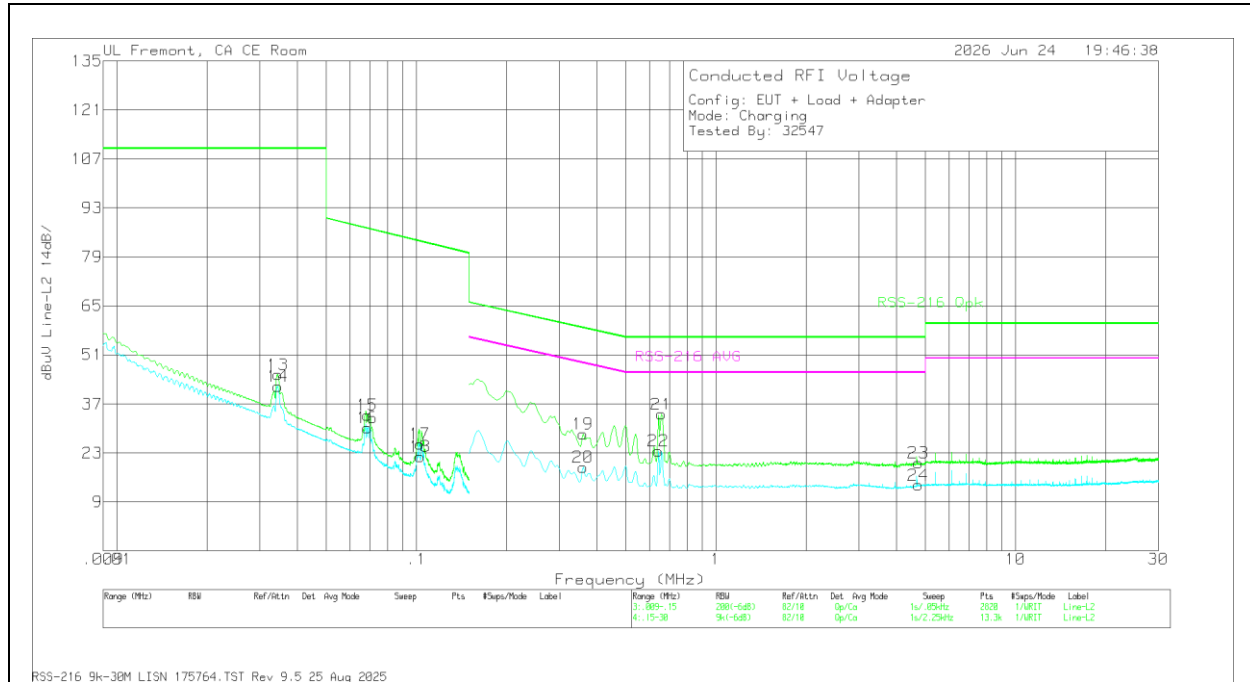


DATA

Range 1: Line-L1 .009 - .15MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)
2	.0391	18.94	Ca	.5	0	10.3	10	39.74	-	-
4	.0772	10.16	Ca	.2	0	9.6	10	29.96	-	-
6	.1198	3.98	Ca	.1	0	9.5	10	23.58	-	-
1	.0391	23.43	Qp	.5	0	10.3	10	44.23	110	-65.77
3	.0772	14.05	Qp	.2	0	9.6	10	33.85	86.05	-52.2
5	.1198	8.1	Qp	.1	0	9.5	10	27.7	82.05	-54.35

Range 2: Line-L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)	RSS-216 AVG (dBuV)	Margin (dB)
8	.3593	0	Ca	0	0	9.3	10	19.3	-	-	48.75	-29.45
10	.6608	4.36	Ca	0	.1	9.3	10	23.76	-	-	46	-22.24
12	4.7265	-5.98	Ca	0	.2	9.4	10	13.62	-	-	46	-32.38
7	.3593	8.29	Qp	0	0	9.3	10	27.59	58.75	-31.16	-	-
9	.6608	13.79	Qp	0	.1	9.3	10	33.19	56	-22.81	-	-
11	4.731	.3	Qp	0	.2	9.4	10	19.9	56	-36.1	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS**DATA**

Range 3: Line-L2 .009 - .15MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)
14	.0345	20.86	Ca	.7	0	10.4	10	41.96	-	-
16	.0685	10.3	Ca	.2	0	9.7	10	30.2	-	-
18	.1031	2.33	Ca	.1	0	9.5	10	21.93	-	-
13	.0344	24.25	Qp	.7	0	10.4	10	45.35	110	-64.65
15	.0685	13.95	Qp	.2	0	9.7	10	33.85	87.13	-53.28
17	.1027	6	Qp	.1	0	9.5	10	25.6	83.45	-57.85

Range 4: Line-L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)	RSS-216 AVG (dBuV)	Margin (dB)
20	.3593	-32	Ca	0	0	9.3	10	18.98	-	-	48.75	-29.77
22	.6428	4.01	Ca	0	.1	9.4	10	23.51	-	-	46	-22.49
24	4.7333	-5.9	Ca	.1	.2	9.4	10	13.8	-	-	46	-32.2
19	.3593	9.06	Qp	0	0	9.3	10	28.36	58.75	-30.39	-	-
21	.6585	14.66	Qp	0	.1	9.3	10	34.06	56	-21.94	-	-
23	4.7355	.48	Qp	.1	.2	9.4	10	20.18	56	-35.82	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

12. SETUP PHOTOS

Please refer to 16064952-EP1 for setup photos.

13. APPENDIX A - SPOT CHECK EVALUATION

13.1. MODEL DIFFERENCES

The manufacturer hereby declares the following for models A3447, A3719, A3720 and A3721. These models are very similar, with only the following differences.

Model	FCC ID	IC ID	Feature Difference	Sim Support	Reference Model
A3447	BCG-E9188A	579C-E9188A	-With FR2 -No B11, B21	eSIM	-
A3719	BCG-E9198A	579C-E9198A	-Without FR2 -Added B11, B21		A3447
A3720	BCG-E9203A	579C-E9203A	-Without FR2 -No LTE/5GNR B14, B29, B71, B11, B21		
A3721	BCG-E9204A	579C-E9204A	-Without FR2 -No LTE/5GNR B14, B29, B71, B11, B21, B53 -No MSS		

Note:

- All Models use the same System, Cellular and Connectivity radio electrical schematics.
- Removal of LTE/ 5GNR bands on models either done by software or de-population of related components. Please refer to data reuse test plan for details.
- All Models use the same Applications Processor and PMU.
- All Models use the same UICC hardware/software interface.
- All Models run the same Baseband firmware and iOS software.

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

13.2. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3719**13.2.1. 127.7kHz**

A3719 SPOT CHECK RESULTS										
Equipment Class / Technology	Worst Mode	Configuration	Test Item		Measured Frequency (MHz)	Original Model: A3447	Sub Model: A3719	Delta (dB or MHz)	Margin	Remarks
						FCC ID : BCG-E9188A IC : 579C-E9188A	FCC ID: BCG-E9198A IC : 579C-E9198A			
DCD / WPT (FCC)	Operating Load 1	2	E-field (300m distance) FCC (dBµV/m)	Peak Face On	0.1277	-3.11	-6.46	-3.35	-28.44	Note 1
	Operating Load 2	4	Out-Of-Band Emissions (dBuV/m)	QP Vertical 30M - 1G	44.922	28.40	27.30	-1.10	-11.60	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: Full test performed as the delta between reference and variant models exceeds those allowed for data referencing.

Equipment Class / Technology	Worst Mode	Configuration	Test Item		Measured Frequency (MHz)	Original Model: A3447	Sub Model: A3719	Delta (dB or MHz)	Margin	Remarks
						FCC ID : BCG-E9188A IC : 579C-E9188A	FCC ID: BCG-E9198A IC : 579C-E9198A			
DCD / WPT (IC)	Operating Load 1	2	H-field (3m distance) IC (dBµA/m)	Peak Face On	0.1277	24.01	20.42	-3.59	-20.53	Note 1
	Operating Load 2	4	Out-Of-Band Emissions (dBuV/m)	QP Vertical 30M - 1G	44.962	17.54	16.33	-1.21	-12.46	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: Full test performed as the delta between reference and variant models exceeds those allowed for data referencing.

13.2.2. 360kHz

Equipment Class / Technology	Worst Mode	Configuration	Test Item		Measured Frequency (MHz)	Original Model: A3447	Sub Model: A3719	Delta (dB or MHz)	Margin	Remarks
						FCC ID : BCG-E9188A IC : 579C-E9188A	FCC ID: BCG-E9198A IC : 579C-E9198A			
DCD / WPT (FCC)	Operating Load 1	3	E-field (300m distance) FCC (dBµV/m)	Peak Face On	0.360	-12.55	-11.89	0.66	-29.03	Note 1
	Operating Load 1	3	Out-Of-Band Emissions (dBuV/m)	QP Vertical 30M - 1G	173.281	28.09	27.68	-0.41	-11.91	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: Full test performed as the delta between reference and variant models exceeds those allowed for data referencing.

A3719 SPOT CHECK RESULTS										
Equipment Class / Technology	Worst Mode	Configuration	Test Item		Measured Frequency (MHz)	Original Model: A3447	Sub Model: A3719	Delta (dB or MHz)	Margin	Remarks
						FCC ID : BCG-E9188A IC : 579C-E9188A	FCC ID: BCG-E9198A IC : 579C-E9198A			
DCD / WPT (IC)	Operating Load 1	3	H-field (3m distance) IC (dBµA/m)	Peak Face On	0.360	16.84	16.68	-0.16	-16.92	Note 1
	Operating Load 1	3	Out-Of-Band Emissions (dBuV/m)	QP Vertical 30M - 1G	32.864	17.99	18.45	0.46	-12.01	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: Full test performed as the delta between reference and variant models exceeds those allowed for data referencing.

13.3. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3720

13.3.1. 127.7kHz

A3720 SPOT CHECK RESULTS										
Equipment Class / Technology	Worst Mode	Configuration	Test Item		Measured Frequency (MHz)	Original Model: A3447	Sub Model: A3720	Delta (dB or MHz)	Margin	Remarks
						FCC ID : BCG-E9188A IC : 579C-E9188A	FCC ID: BCG-E9203A IC : 579C-E9203A			
DCD / WPT (FCC)	Operating Load 1	2	E-field (300m distance) FCC (dBμV/m)	Peak Face On	0.1277	-3.11	-5.74	-2.63	-28.44	Note 1
	Operating Load 2	4	Out-Of-Band Emissions (dBuV/m)	QP Vertical 30M - 1G	44.922	28.40	29.11	0.71	-11.60	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: Full test performed as the delta between reference and variant models exceeds those allowed for data referencing.

A3720 SPOT CHECK RESULTS										
Equipment Class / Technology	Worst Mode	Configuration	Test Item		Measured Frequency (MHz)	Original Model: A3447	Sub Model: A3720	Delta (dB or MHz)	Margin	Remarks
						FCC ID : BCG-E9188A IC : 579C-E9188A	FCC ID: BCG-E9203A IC : 579C-E9203A			
DCD / WPT (IC)	Operating Load 1	2	H-field (3m distance) IC (dBμA/m)	Peak Face On	0.1277	24.01	21.17	-2.84	-20.53	Note 1
	Operating Load 2	4	Out-Of-Band Emissions (dBuV/m)	QP Vertical 30M - 1G	44.962	17.54	17.10	-0.44	-12.46	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: Full test performed as the delta between reference and variant models exceeds those allowed for data referencing.

13.3.2. 360kHz

A3720 SPOT CHECK RESULTS										
Equipment Class / Technology	Worst Mode	Configuration	Test Item		Measured Frequency (MHz)	Original Model: A3447	Sub Model: A3720	Delta (dB or MHz)	Margin	Remarks
						FCC ID : BCG-E9188A IC : 579C-E9188A	FCC ID: BCG-E9203A IC : 579C-E9203A			
DCD / WPT (FCC)	Operating Load 1	3	E-field (300m distance) FCC (dBμV/m)	Peak Face On	0.360	-12.55	-12.41	0.14	-29.03	Note 1
	Operating Load 1	3	Out-Of-Band Emissions (dBuV/m)	QP Vertical 30M - 1G	173.281	28.09	27.18	-0.91	-11.91	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: Full test performed as the delta between reference and variant models exceeds those allowed for data referencing.

A3720 SPOT CHECK RESULTS										
Equipment Class / Technology	Worst Mode	Configuration	Test Item		Measured Frequency (MHz)	Original Model: A3447	Sub Model: A3720	Delta (dB or MHz)	Margin	Remarks
						FCC ID : BCG-E9188A IC : 579C-E9188A	FCC ID: BCG-E9203A IC : 579C-E9203A			
DCD / WPT (IC)	Operating Load 1	3	H-field (3m distance) IC (dBμA/m)	Peak Face On	0.360	16.84	17.99	1.15	-16.92	Note 1
	Operating Load 1	3	Out-Of-Band Emissions (dBuV/m)	QP Vertical 30M - 1G	32.864	17.99	17.15	-0.84	-12.01	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: Full test performed as the delta between reference and variant models exceeds those allowed for data referencing.

13.4. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3721

13.4.1. 127.7kHz

A3721 SPOT CHECK RESULTS										
Equipment Class / Technology	Worst Mode	Configuration	Test Item		Measured Frequency (MHz)	Original Model: A3447	Sub Model: A3721	Delta (dB or MHz)	Margin	Remarks
						FCC ID : BCG-E9188A IC : 579C-E9188A	FCC ID: BCG-E9204A IC : 579C-E9204A			
DCD / WPT (FCC)	Operating Load 1	2	E-field (300m distance) FCC (dB μ V/m)	Peak Face On	0.1277	-3.11	-5.71	-2.60	-28.44	Note 1
	Operating Load 2	4	Out-Of-Band Emissions (dBuV/m)	QP Vertical 30M - 1G	44.922	28.40	26.02	-2.38	-11.60	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: Full test performed as the delta between reference and variant models exceeds those allowed for data referencing.

A3721 SPOT CHECK RESULTS										
Equipment Class / Technology	Worst Mode	Configuration	Test Item		Measured Frequency (MHz)	Original Model: A3447	Sub Model: A3721	Delta (dB or MHz)	Margin	Remarks
						FCC ID : BCG-E9188A IC : 579C-E9188A	FCC ID: BCG-E9204A IC : 579C-E9204A			
DCD / WPT (IC)	Operating Load 1	2	H-field (3m distance) IC (dB μ A/m)	Peak Face On	0.1277	24.01	21.57	-2.44	-20.53	Note 1
	Operating Load 2	4	Out-Of-Band Emissions (dBuV/m)	QP Vertical 30M - 1G	44.962	17.54	15.97	-1.57	-12.46	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: Full test performed as the delta between reference and variant models exceeds those allowed for data referencing.

13.4.2. 360kHz

A3721 SPOT CHECK RESULTS										
Equipment Class / Technology	Worst Mode	Configuration	Test Item		Measured Frequency (MHz)	Original Model: A3447	Sub Model: A3721	Delta (dB or MHz)	Margin	Remarks
						FCC ID : BCG-E9188A IC : 579C-E9188A	FCC ID: BCG-E9204A IC : 579C-E9204A			
DCD / WPT (FCC)	Operating Load 1	3	E-field (300m distance) FCC (dB μ V/m)	Peak Face On	0.360	-12.55	-12.10	0.45	-29.03	Note 1
	Operating Load 1	3	Out-Of-Band Emissions (dBuV/m)	QP Vertical 30M - 1G	173.281	28.09	25.09	-3.00	-11.91	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: Full test performed as the delta between reference and variant models exceeds those allowed for data referencing.

A3721 SPOT CHECK RESULTS										
Equipment Class / Technology	Worst Mode	Configuration	Test Item		Measured Frequency (MHz)	Original Model: A3447	Sub Model: A3721	Delta (dB or MHz)	Margin	Remarks
						FCC ID : BCG-E9188A IC : 579C-E9188A	FCC ID: BCG-E9204A IC : 579C-E9204A			
DCD / WPT (IC)	Operating Load 1	3	H-field (3m distance) IC (dB μ A/m)	Peak Face On	0.360	16.84	16.70	-0.14	-16.92	Note 1
	Operating Load 1	3	Out-Of-Band Emissions (dBuV/m)	QP Vertical 30M - 1G	32.864	17.99	18.97	0.98	-12.01	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: Full test performed as the delta between reference and variant models exceeds those allowed for data referencing.