

TEST REPORT

Report Number. : R15799203-E5

Applicant : Resideo
2 Corporate Center Drive
Melville, NY, 11747

Model : THX1200W5

FCC ID : HS9-THX1200WF01

IC : 573R-THX1200WF01

EUT Description : Wireless Thermostat

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C
ISED RSS-247 ISSUE 3
ISED RSS-GEN ISSUE 5 + A1 + A2

Date Of Issue:
2025-06-22

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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
1	2025-06-11	Initial Issue	B. Kiewra
2	2025-06-18	Added Duty Cycle section 9 and note regarding power spot checked to section 6.2 Added statement regarding AC mains also being tested to section 6.1 and section 2. Added note re: fundamental to sections 10.1 and 10.2	B. Kiewra
3	2025-06-22	Misc. editorial updates	M. Antola

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1. ATTESTATION OF TEST RESULTS

APPLICANT: Resideo
2 Corporate Center Drive
Melville, NY, 11747 USA

EUT DESCRIPTION: Wireless Thermostat

MODEL: THX1200W5

SERIAL NUMBER: 52591160000146

SAMPLE RECEIPT DATE: 2025-05-08

DATE TESTED: 2025-05-23 to 2025-06-17

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	See Section 2
ISED RSS-247 Issue 3	See Section 2
ISED RSS-GEN Issue 5 + A1 + A2	See Section 2

UL LLC 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.

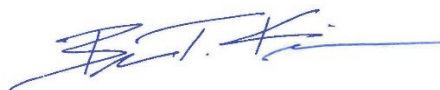
This document may not be altered or revised in any way unless done so by UL LLC and all revisions are noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document.

Approved & Released
For UL LLC By:

Prepared By:



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Consumer, Medical and IT Segment
UL LLC



Brian Kiewra
Project Engineer
Consumer, Medical and IT Segment
UL LLC

2. TEST RESULTS SUMMARY

This report contains data provided by the applicant which can impact the validity of results. UL LLC is only responsible for the validity of results after the integration of the data provided by the customer.

Below is a list of the data/information provided by the customer:

1.) Antenna gain and type (see section 6.3)

FCC Clause	ISED Clause	Requirement	Result	Comment
See Comment		Duty Cycle	Not Performed	All testing with the exception of AC mains conducted and radiated emissions to be performed by manufacturer.
15.245(b)	RSS-GEN 6.7	99% OBW		
15.247 (a) (2)	RSS-247 5.2 (a)	6dB BW		
15.247 (b) (3)	RSS-247 5.4 (d)	Output Power		
See Comment		Average power		
15.247 (e)	RSS-247 5.2 (b)	PSD		
15.247 (d)	RSS-247 5.5	Conducted Spurious Emissions	Compliant	None
15.207	RSS-Gen 8.8	AC Mains Conducted Emissions		
15.209, 15.205	RSS-GEN 8.9, 8.10	Radiated Emissions	Compliant	None

3. TEST METHODOLOGY

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

- FCC CFR 47 Part 2,
- FCC CFR 47 Part 15,
- ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024,
- KDB 558074 D01 15.247 Meas Guidance v05r02,
- KDB 414788 D01 Radiated Test Site v01r01,
- RSS-GEN Issue 5 + A1 + A2, and
- RSS-247 Issue 3.

4. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, Certificate Number 0751.06, 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: 2800 Perimeter Park Dr. Suite B Morrisville, NC 27560, U.S.A	US0067	27265	825374
☐	Building: 12 Laboratory Dr RTP, NC 27709, U.S.A.		2180C	

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}
Worst Case Radiated Disturbance, 9kHz to 40 GHz	±6.01 dB
Unwanted Emissions, Conducted	±1.94 dB

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

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)
 $36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.
 $36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$

6. EQUIPMENT UNDER TEST

6.1. EUT DESCRIPTION

The EUT is a Wireless Thermostat. This report covers the full radiated and AC mains testing of the 900MHz FHSS radio. All other testing can be found in reports to be provided by the manufacturer.

6.2. MAXIMUM FIELD STRENGTH

This test report covers the radiated and AC mains assessment of the 900MHz radio. It is the responsibility of the product manufacturer to provide the reports to show full compliance with the FCC and ISSED requirements. However, power was spot-checked to ensure that power was set correctly for testing covered in this report.

6.3. DESCRIPTION OF AVAILABLE ANTENNAS

The EUT supports 2 antennas for diversity with the following antenna gains:

Antenna	Frequency Range (MHz)	Maximum 3D Gain (dBi)
1	902-928MHz	1.3
2	902-928MHz	0.1

6.4. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was 01.3024.0.

6.5. WORST-CASE CONFIGURATION AND MODE

The EUT is intended to operate in only one orientation. Therefore, all radiated testing was performed with the EUT in its intended orientation of operation.

Radiated spurious performed from 30MHz to 10GHz on each antenna on low, middle, and high channels. Worst-case channel was tested on each antenna for 9kHz-30MHz.

Testing run at power setting 11.

6.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adaptor	Triad	WAU24-1000	N/A	N/A

I/O CABLES

I/O Cable List						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	4 Pin PWR	1	AC In	Unshielded	<3m	Connects EUT to AC Lines

TEST SETUP

The EUT was set to transmit continuously throughout the test.

SETUP DIAGRAM

Please refer to R15799203-EP1 for setup diagrams

7. MEASUREMENT METHOD

Duty Cycle: ANSI C63.10 Subclause -11.6

Radiated emissions restricted frequency bands: ANSI C63.10 Subclause -11.12.1, 6.10.5

General Radiated Emissions: ANSI C63.10-2020 Subclause 6.3 - 6.6

AC Power Line Conducted Emissions: ANSI C63.10-2020, Section 6.2

8. TEST AND MEASUREMENT EQUIPMENT

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

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 2)

Equipment ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
30-1000 MHz					
159203	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2024-03-05	2026-03-05
1-18 GHz					
86408	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2023-06-19	2025-06-19
Gain-Loss Chains					
91978	Gain-loss string: 25-1000MHz	Various	Various	2024-05-10	2025-05-31
91977	Gain-loss string: 1-18GHz	Various	Various	2024-07-17	2025-07-31
Receiver & Software					
197955	Spectrum Analyzer	Rohde & Schwarz	ESW44	2025-05-12	2026-05-12
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
Additional Equipment used					
200540	Environmental Meter	Fisher Scientific	15-077-963	2023-07-19	2025-07-19
167153 (BRF007)	902-928MHz notch filter, 2W, Fhigh =1.5GHz	Micro-Tronics	BRC17691	2025-03-13	2026-03-13
198917	1GHz high-pass filter, 2W, Fhigh =18GHz	Micro-Tronics	HPM18129-02	2025-03-13	2026-03-13

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 4)

Equipment ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
0.009-30MHz					
135144	Active Loop Antenna	ETS-Lindgren	6502	2024-10-02	2025-10-02
Gain-Loss Chains					
207638	Gain-loss string: 0.009-30MHz	Various	Various	2024-05-22	2025-06-06
Receiver & Software					
197954	Spectrum Analyzer	Rohde & Schwarz	ESW44	2025-04-21	2026-04-21
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
Additional Equipment used					
241204	Environmental Meter	Fisher Scientific	15-077-963	2023-09-05	2025-09-05

Test Equipment Used - Line-Conducted Emissions – Voltage (Morrisville – Conducted 1)

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
70374	EMI Test Receiver	ROHDE & SCHWARZ	ESCI7	2024-07-30	2025-07-30
CBL087	Coax cable, RG223, N-male to BNC-male, 20-ft.	Pasternack	PE3W06143-240	2025-04-17	2026-04-17
179892	Environmental Meter	Fisher Scientific	15-077-963	2024-08-12	2025-08-12
80391	LISN, 50-ohm/50-uH, 250uH 2-conductor, 25A	Fischer Custom Com.	FCC-LISN-50/250-25- 2-01	2024-08-01	2025-08-01
52859	Transient Limiter, 0.009-100MHz	Electro-Metrics	EM-7600	2025-04-17	2026-04-17
236852	CW-AC Power Source	Ametek	CW2501	NA	NA
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		

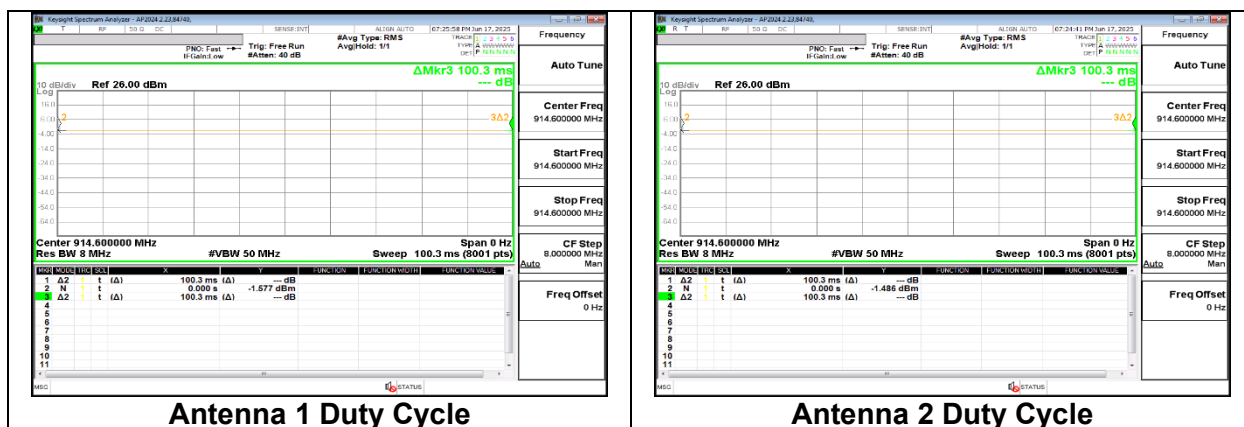
9. DUTY CYCLE

Limits

None. For reporting purposes only

Procedure

ANSI C63.10 Subclause -11.6



Duty cycle for both antennas is 100%.

10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209
RSS-GEN, Section 8.9 and 8.10

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54
Frequency Range (kHz)	Field Strength Limit (uA/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	6.37/F(kHz) @ 300 m	-
0.490-1.705	63.7/F(kHz) @ 30 m	-
1.705 - 30	0.08 @ 30m	-
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 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 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements in the 30-1000MHz range, 9kHz for peak and/or quasi-peak detection measurements in the 0.15-30MHz range and 200Hz for peak and/or quasi-peak detection measurements in the 9 to 150kHz range. Peak detection is used unless otherwise noted as quasi-peak or average (9-90kHz and 110-490kHz).

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3MHz for peak measurements. For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements. RMS average detector was used for final measurements. The EUT was operating at 100% duty throughout all testing.

The spectrum from 30 MHz to 10 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band, per antenna. Below 30 MHz, the channel with the highest output power was tested, per antenna.

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.

3D antenna use - For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel).

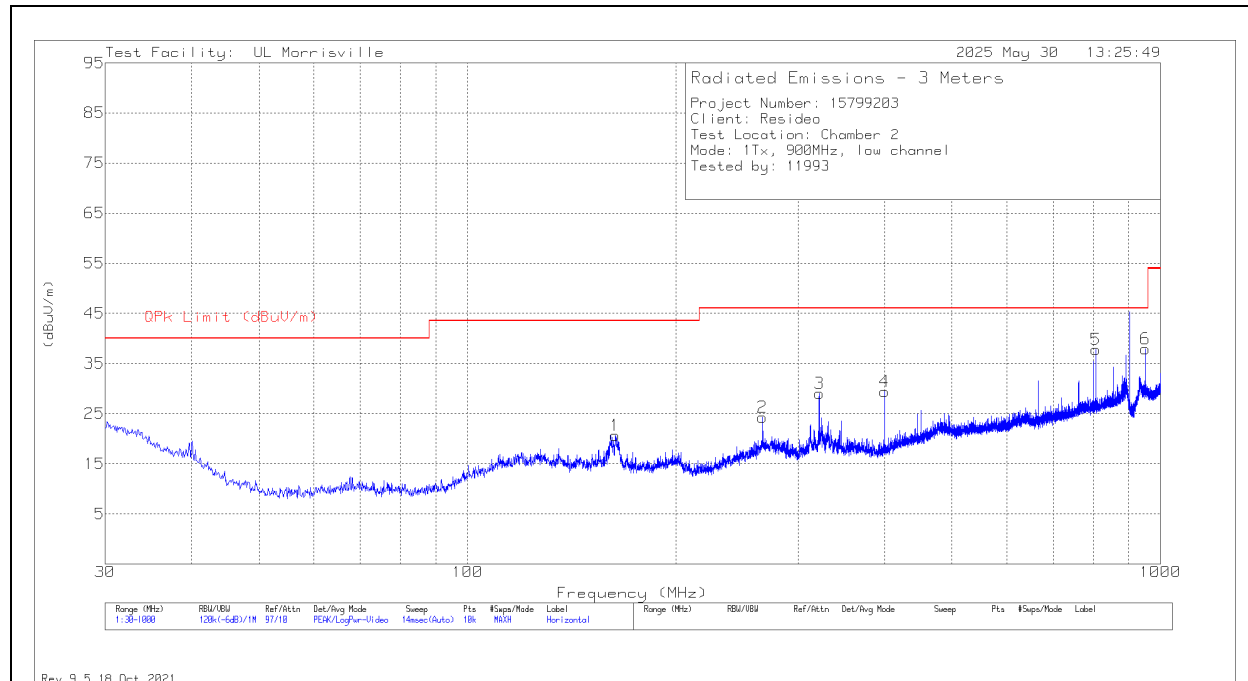
Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

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

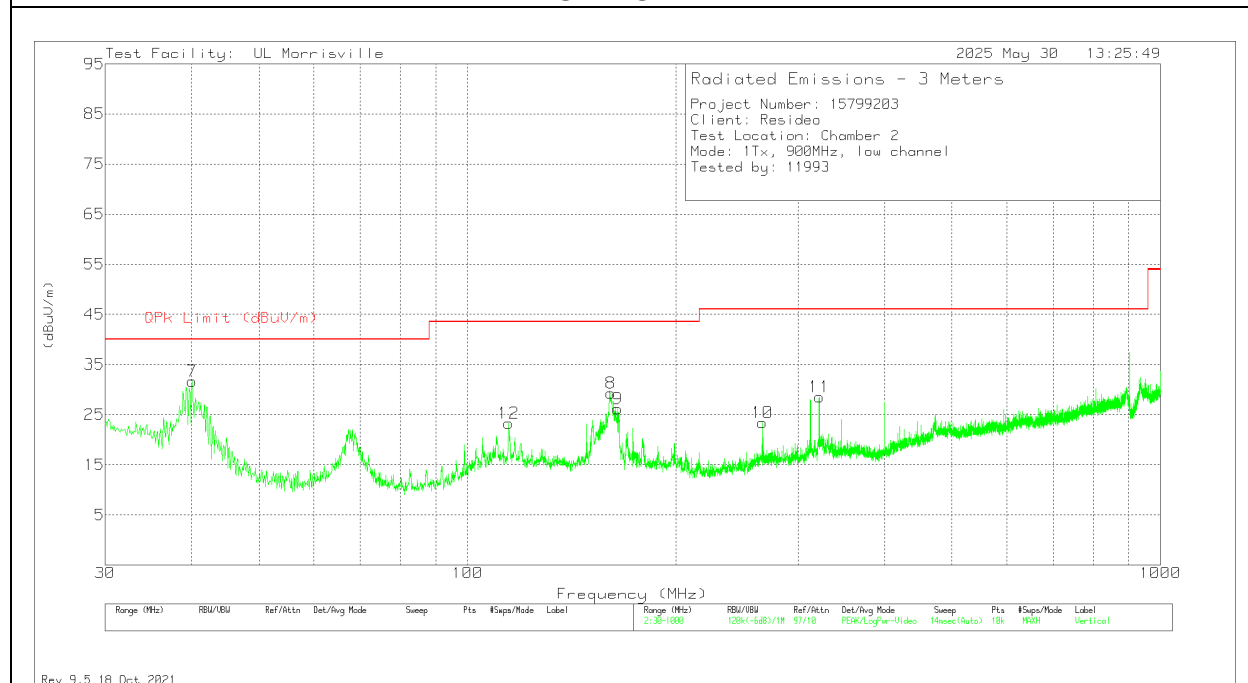
OFS and chamber correlation testing had been performed and chamber measured test result is the worst-case test result.

10.1. TRANSMITTER 30-1000MHz (ANTENNA 1)

LOW CHANNEL RESULTS



HORIZONTAL



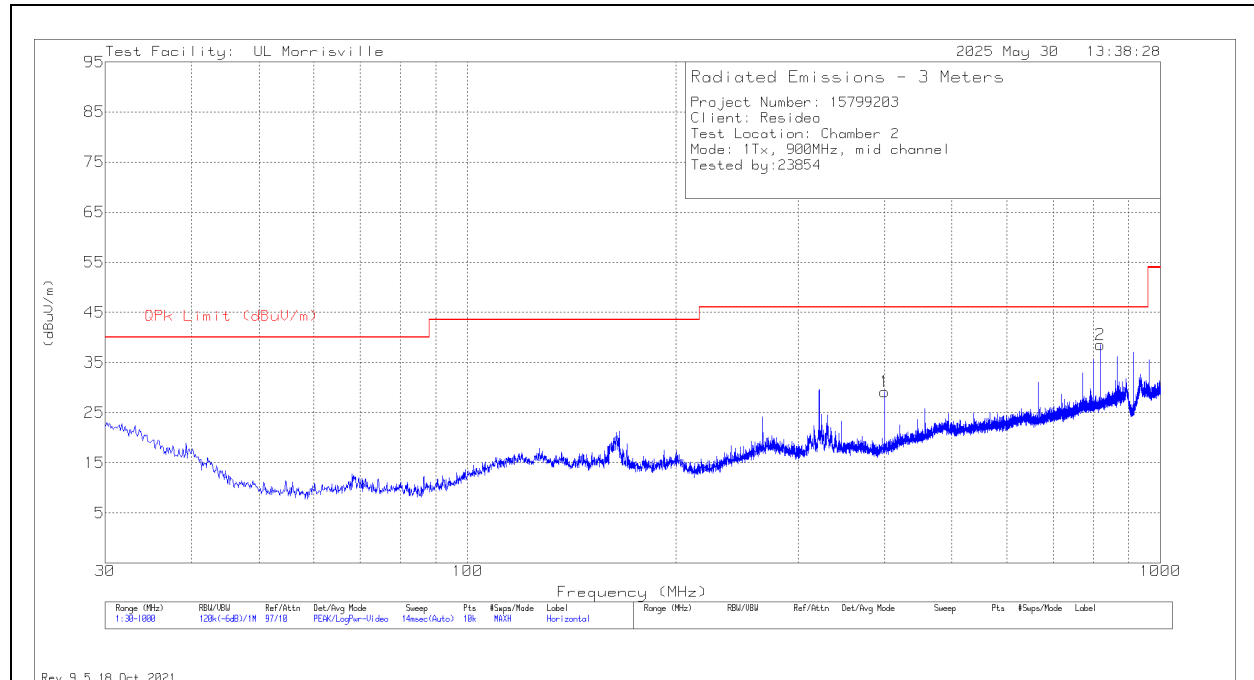
VERTICAL

RADIATED EMISSIONS

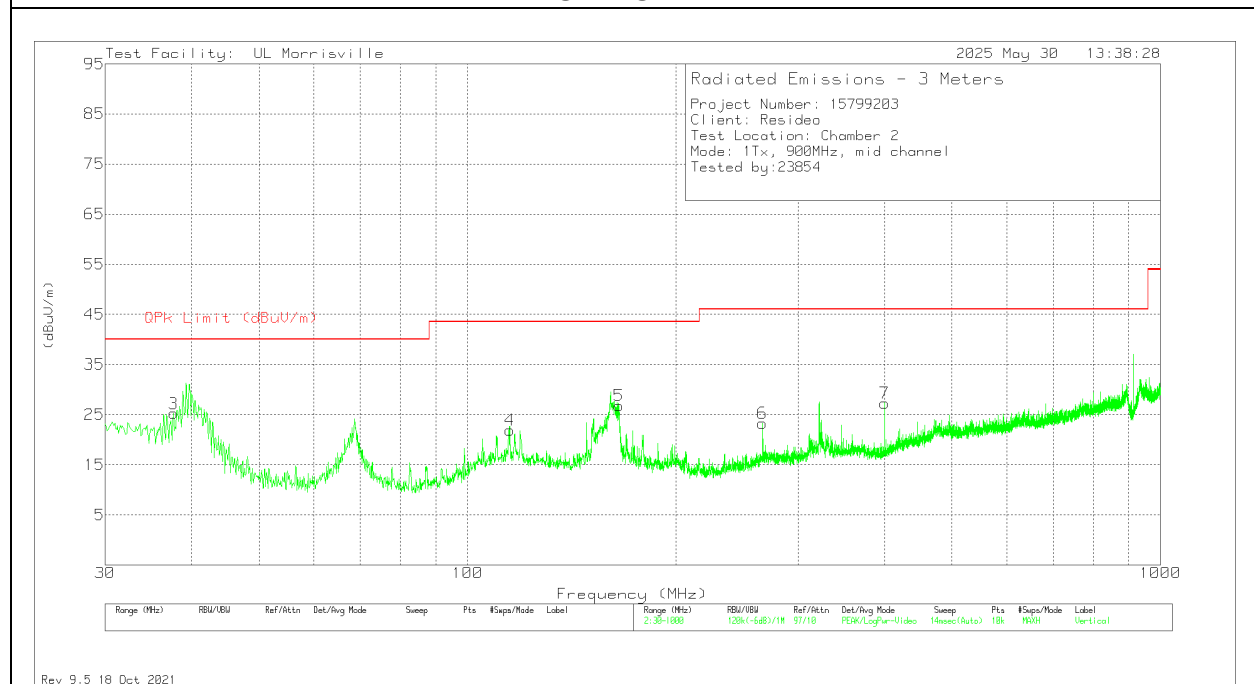
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	159203 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 163.375	32.04	Pk	18.6	-30.2	.2	20.64	43.52	-22.88	0-360	199	H
2	* 266.68	33.96	Pk	19.5	-29.5	.3	24.26	46.02	-21.76	0-360	100	H
4	* 399.958	35.47	Pk	22.1	-28.7	.5	29.37	46.02	-16.65	0-360	100	H
9	* 164.83	37.62	Pk	18.5	-30.3	.3	26.12	43.52	-17.4	0-360	101	V
10	* 266.68	33.08	Pk	19.5	-29.5	.3	23.38	46.02	-22.64	0-360	199	V
12	* 114.681	33.98	Pk	19.8	-30.7	.2	23.28	43.52	-20.24	0-360	101	V
7	40.088	42.82	Pk	20.2	-31.5	.1	31.62	-	-	0-360	101	V
8	161.047	40.74	Pk	18.7	-30.3	.2	29.34	-	-	0-360	101	V
3	321.776	37.49	Pk	20.4	-29.3	.4	28.99	-	-	0-360	100	H
11	321.776	37.03	Pk	20.4	-29.3	.4	28.53	-	-	0-360	101	V
5	806.97	35.96	Pk	28.1	-27	.7	37.76	-	-	0-360	100	H
6	951.015	33.05	Pk	29.5	-25.6	1	37.95	-	-	0-360	100	H

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

MID CHANNEL RESULTS



HORIZONTAL



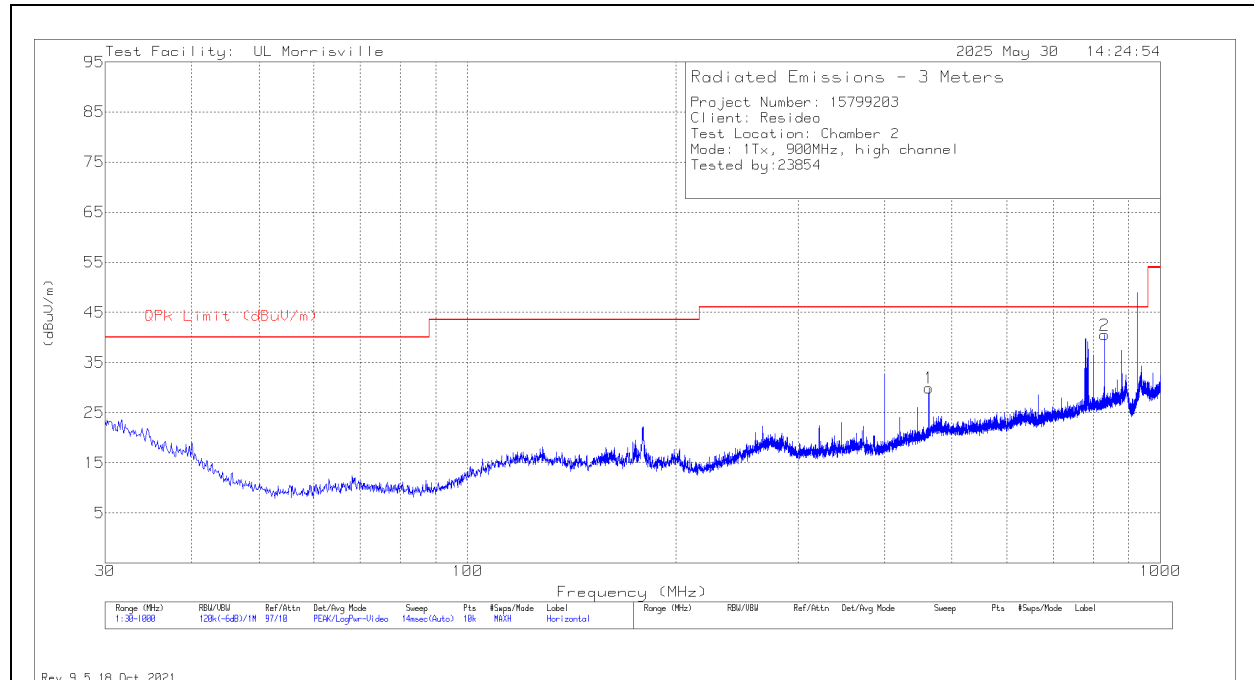
VERTICAL

RADIATED EMISSIONS

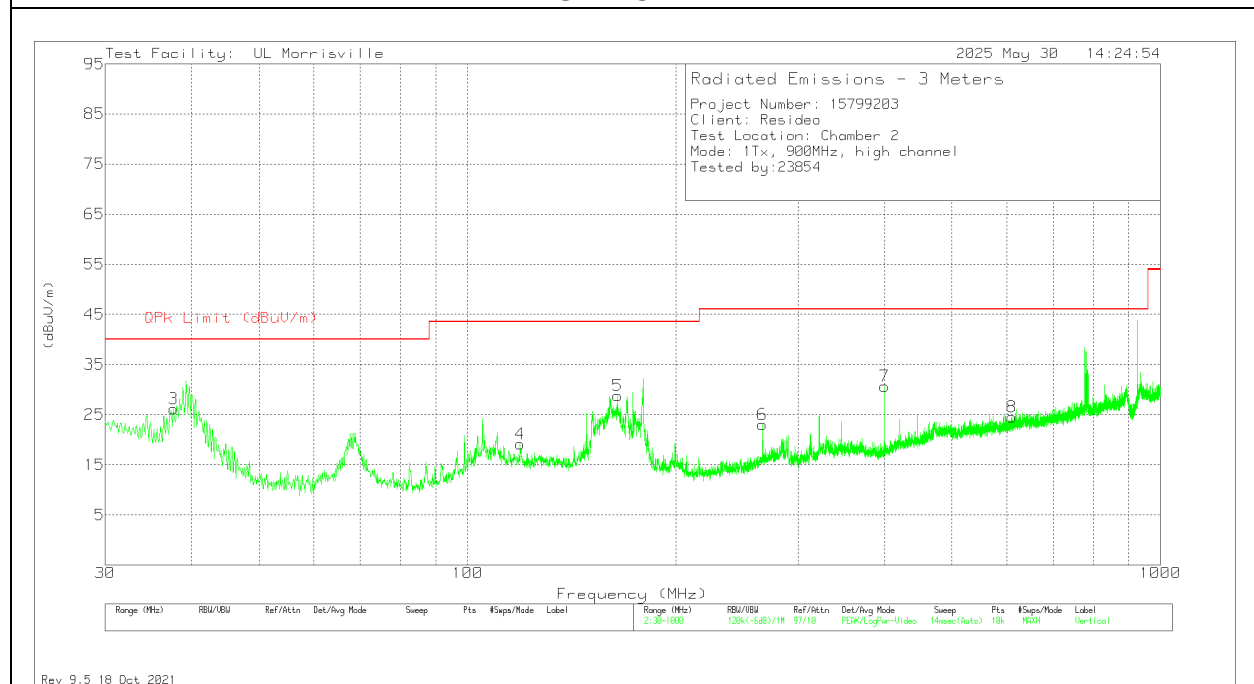
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	159203 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degr)	Height (cm)	Polarity
1	* 399.958	35.28	Pk	22.1	-28.7	.5	29.18	46.02	-16.84	0-360	101	H
3	* 37.663	34.72	Pk	22	-31.6	.1	25.22	40	-14.78	0-360	101	V
4	* 115.166	32.58	Pk	19.8	-30.7	.2	21.88	43.52	-21.64	0-360	101	V
5	* 165.412	38.33	Pk	18.5	-30.3	.3	26.83	43.52	-16.69	0-360	101	V
6	* 266.68	32.99	Pk	19.5	-29.5	.3	23.29	46.02	-22.73	0-360	199	V
7	* 400.055	33.37	Pk	22.1	-28.7	.5	27.27	46.02	-18.75	0-360	101	V
2	818.61	36.66	Pk	28.3	-27	.6	38.56	-	-	0-360	101	H

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

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

Note: signal at ~900MHz is the fundamental.

RADIATED EMISSIONS

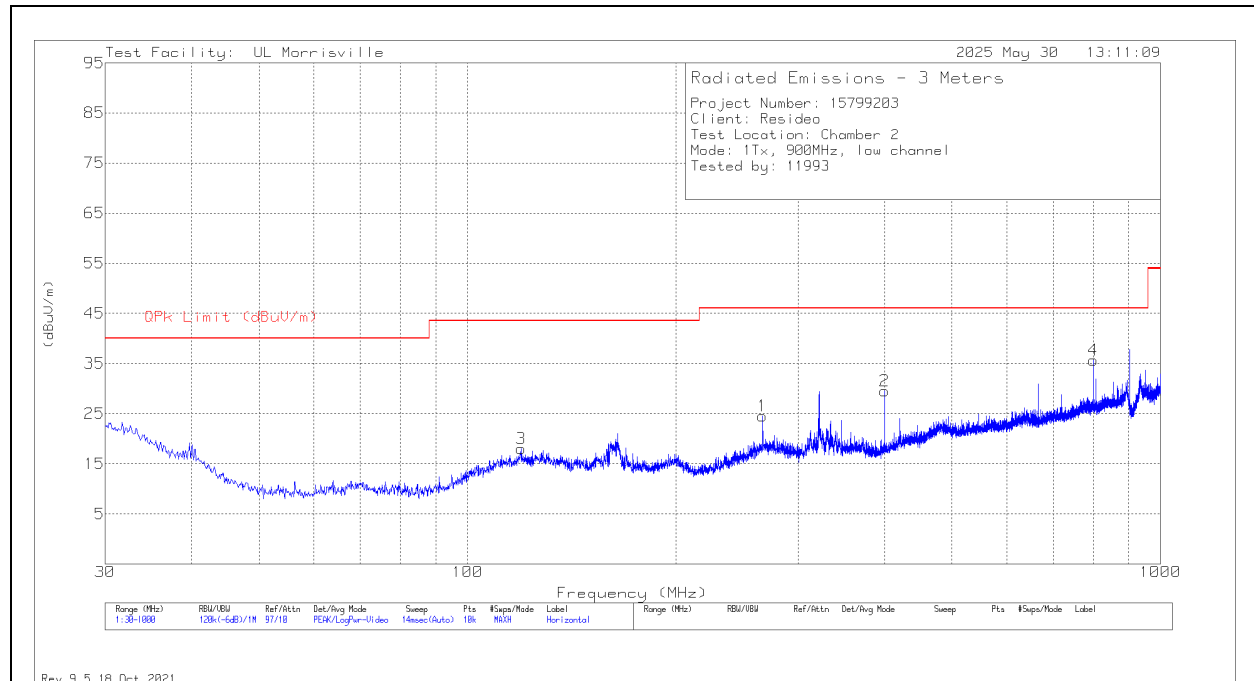
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	159203 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 37.663	35.64	Pk	22	-31.6	.1	26.14	40	-13.86	0-360	101	V
4	* 119.143	29.35	Pk	20.1	-30.7	.4	19.15	43.52	-24.37	0-360	101	V
5	* 164.733	40.41	Pk	18.5	-30.3	.2	28.81	43.52	-14.71	0-360	101	V
6	* 266.68	32.73	Pk	19.5	-29.5	.3	23.03	46.02	-22.99	0-360	101	V
7	* 399.958	36.81	Pk	22.1	-28.7	.5	30.71	46.02	-15.31	0-360	101	V
8	* 610.448	26.76	Pk	25.4	-28.1	.5	24.56	46.02	-21.46	0-360	199	V
1	463.202	34.22	Pk	23.8	-28.5	.4	29.92	-	-	0-360	101	H
2	830.444	38.19	Pk	28.5	-26.9	.7	40.49	-	-	0-360	101	H

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

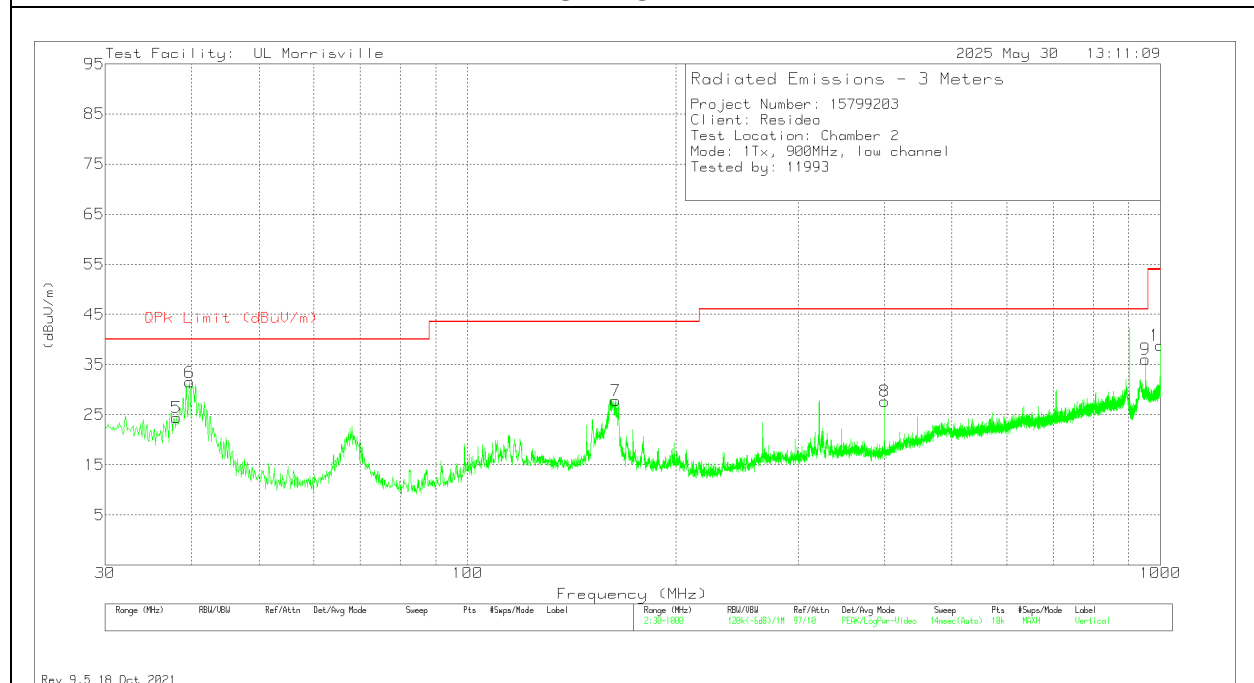
Pk - Peak detector

10.2. TRANSMITTER 30-1000MHz (ANTENNA 2)

LOW CHANNEL RESULTS



HORIZONTAL



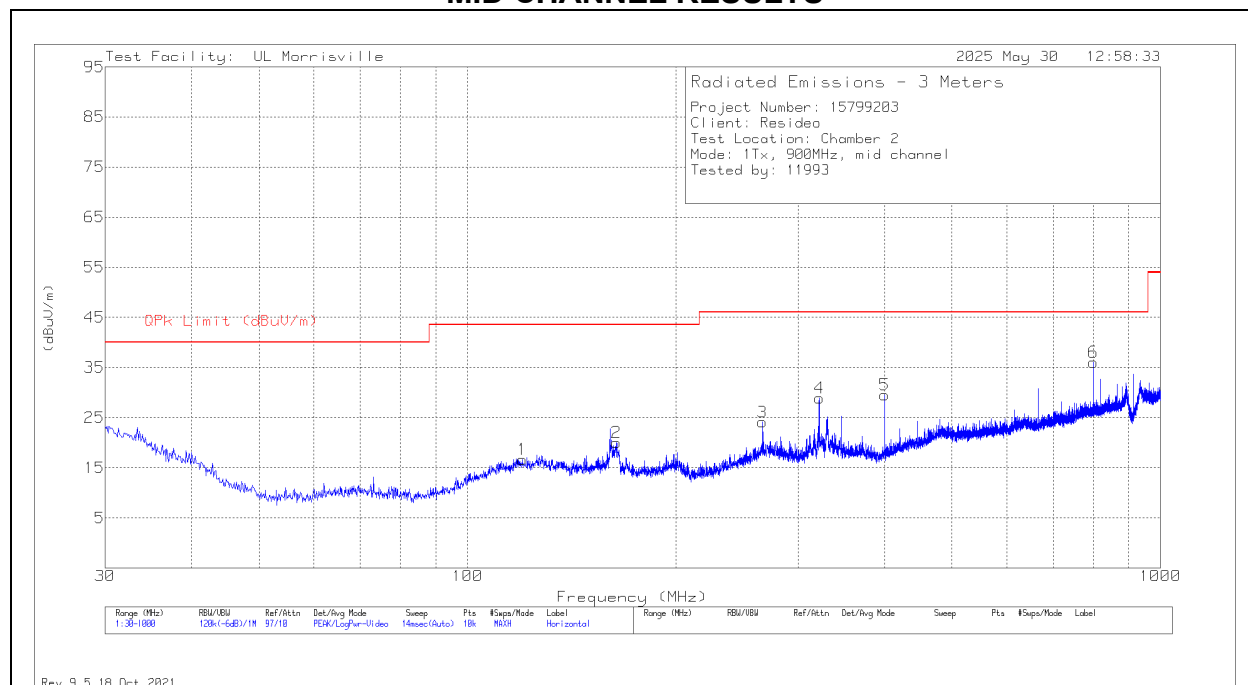
VERTICAL

RADIATED EMISSIONS

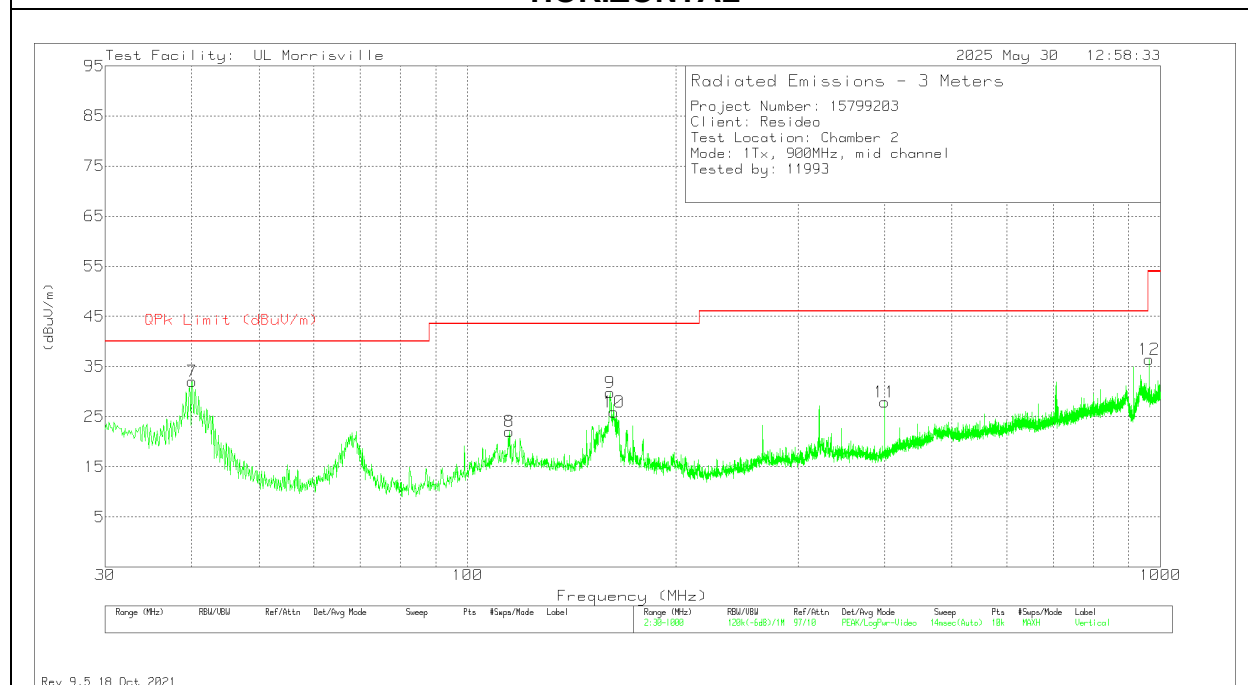
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	159203 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degr)	Height (cm)	Polarity
1	* 266.68	34.22	Pk	19.5	-29.5	.3	24.52	46.02	-21.5	0-360	101	H
2	* 399.958	35.61	Pk	22.1	-28.7	.5	29.51	46.02	-16.51	0-360	101	H
3	* 119.628	28.18	Pk	20.2	-30.7	.3	17.98	43.52	-25.54	0-360	199	H
5	* 38.051	34.1	Pk	21.8	-31.6	.1	24.4	40	-15.6	0-360	101	V
7	* 163.763	39.17	Pk	18.6	-30.2	.2	27.77	43.52	-15.75	0-360	101	V
8	* 399.958	33.76	Pk	22.1	-28.7	.5	27.66	46.02	-18.36	0-360	101	V
10	* 999.03	32.92	Pk	30.1	-25	.8	38.82	53.97	-15.15	0-360	101	V
6	39.7	42.28	Pk	20.5	-31.5	.2	31.48	-	-	0-360	101	V
4	799.986	34.17	Pk	28	-27.2	.7	35.67	-	-	0-360	101	H
9	951.015	31.2	Pk	29.5	-25.6	1	36.1	-	-	0-360	101	V

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

MID CHANNEL RESULTS



HORIZONTAL



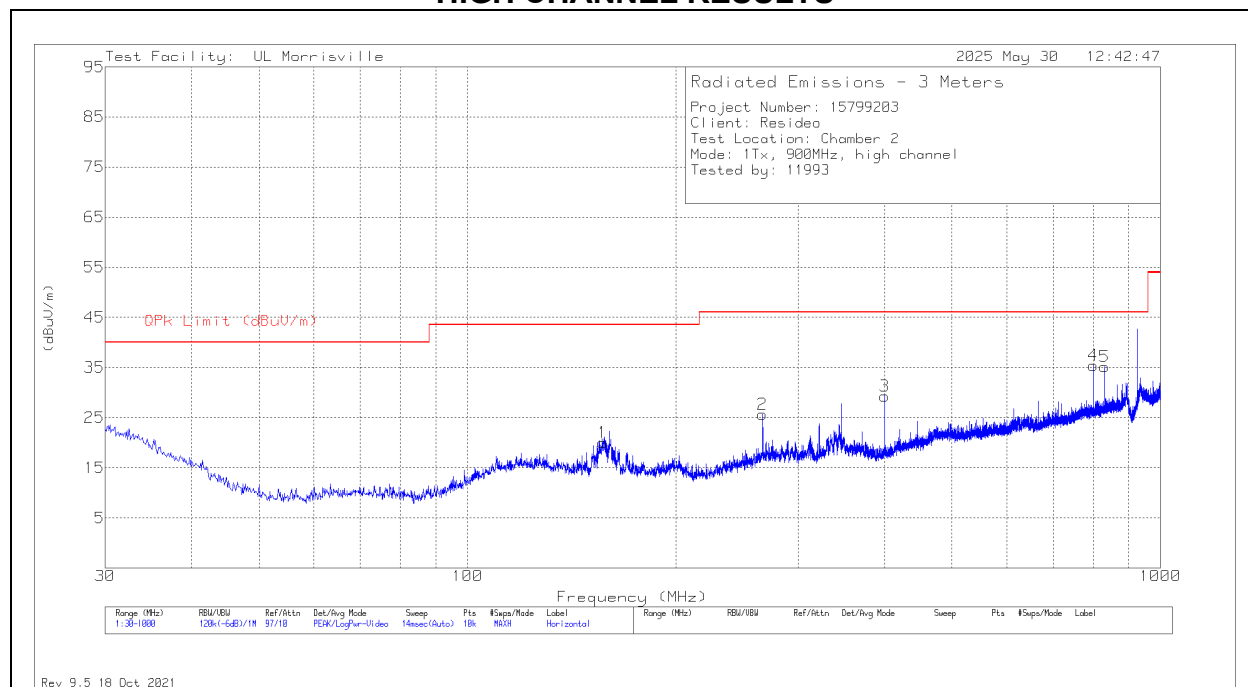
VERTICAL

RADIATED EMISSIONS

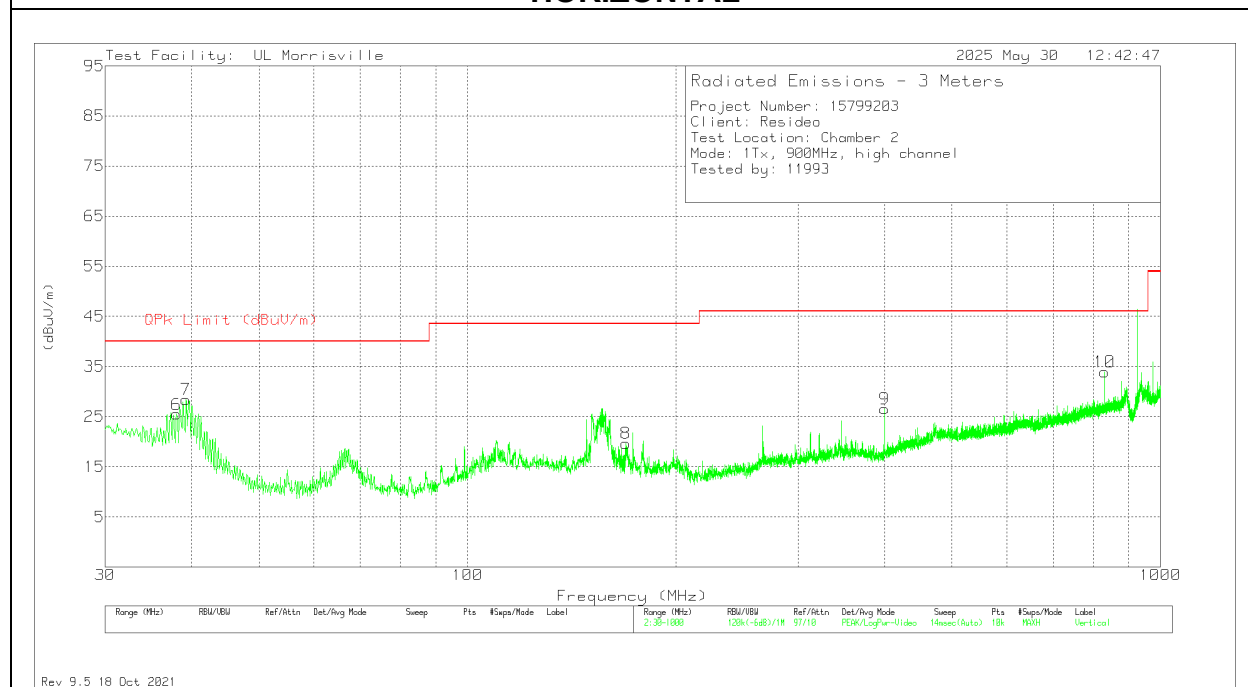
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	159203 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 120.016	26.92	Pk	20.2	-30.7	.2	16.62	43.52	-26.9	0-360	199	H
2	* 163.957	31.43	Pk	18.6	-30.2	.2	20.03	43.52	-23.49	0-360	299	H
3	* 266.68	33.8	Pk	19.5	-29.5	.3	24.1	46.02	-21.92	0-360	101	H
5	* 399.958	35.65	Pk	22.1	-28.7	.5	29.55	46.02	-16.47	0-360	199	H
8	* 114.972	32.75	Pk	19.8	-30.7	.2	22.05	43.52	-21.47	0-360	101	V
10	* 162.793	37.44	Pk	18.6	-30.2	.1	25.94	43.52	-17.58	0-360	101	V
11	* 399.958	34.05	Pk	22.1	-28.7	.5	27.95	46.02	-18.07	0-360	101	V
12	* 962.655	31.41	Pk	29.7	-25.5	.8	36.41	53.97	-17.56	0-360	101	V
7	40.088	43.23	Pk	20.2	-31.5	.1	32.03	-	-	0-360	101	V
9	160.756	41.15	Pk	18.7	-30.3	.2	29.75	-	-	0-360	101	V
4	321.776	37.4	Pk	20.4	-29.3	.4	28.9	-	-	0-360	101	H
6	799.986	34.59	Pk	28	-27.2	.7	36.09	-	-	0-360	101	H

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

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

Note: signal at ~900MHz is the fundamental.

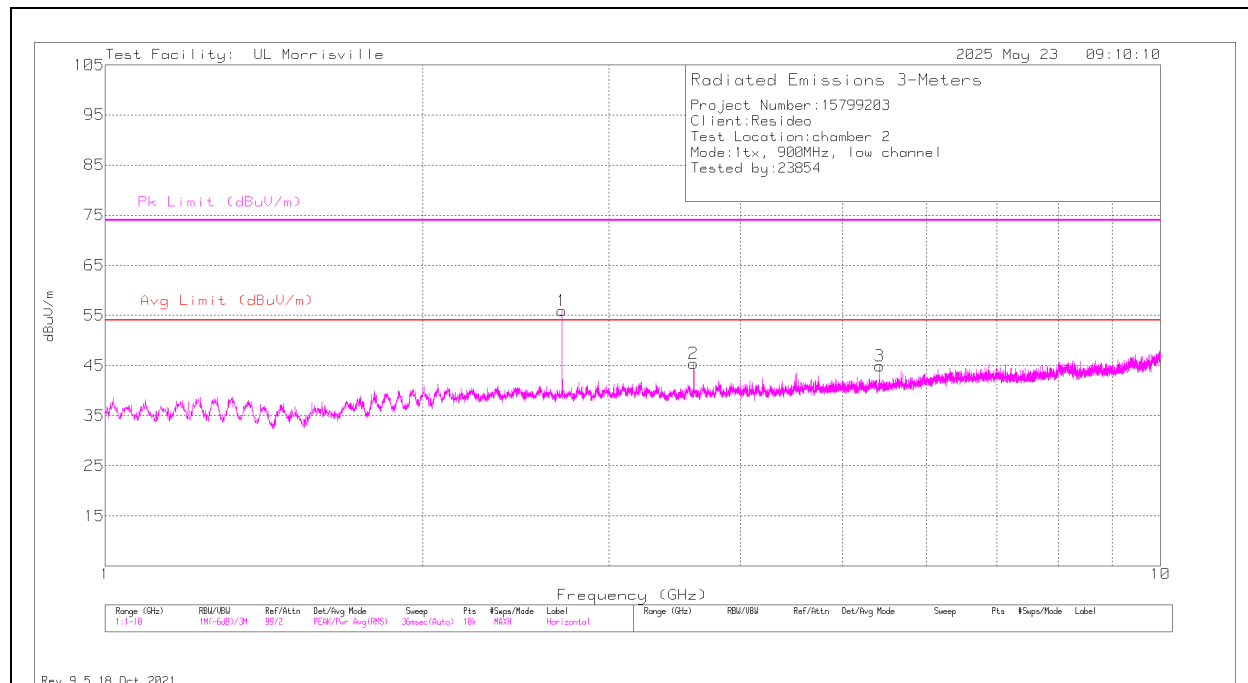
RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	159203 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 156.779	31.44	Pk	18.8	-30.4	.2	20.04	43.52	-23.48	0-360	299	H
2	* 266.68	35.33	Pk	19.5	-29.5	.3	25.63	46.02	-20.39	0-360	99	H
3	* 400.055	35.37	Pk	22.1	-28.7	.5	29.27	46.02	-16.75	0-360	199	H
6	* 38.051	35.17	Pk	21.8	-31.6	.1	25.47	40	-14.53	0-360	101	V
8	* 169.389	31.32	Pk	18.3	-30.3	.3	19.62	43.52	-23.9	0-360	101	V
9	* 399.958	32.69	Pk	22.1	-28.7	.5	26.59	46.02	-19.43	0-360	101	V
7	39.215	38.93	Pk	20.8	-31.5	.2	28.43	-	-	0-360	101	V
4	799.986	33.97	Pk	28	-27.2	.7	35.47	-	-	0-360	99	H
5	830.444	32.92	Pk	28.5	-26.9	.7	35.22	-	-	0-360	99	H
10	830.444	31.66	Pk	28.5	-26.9	.7	33.96	-	-	0-360	199	V

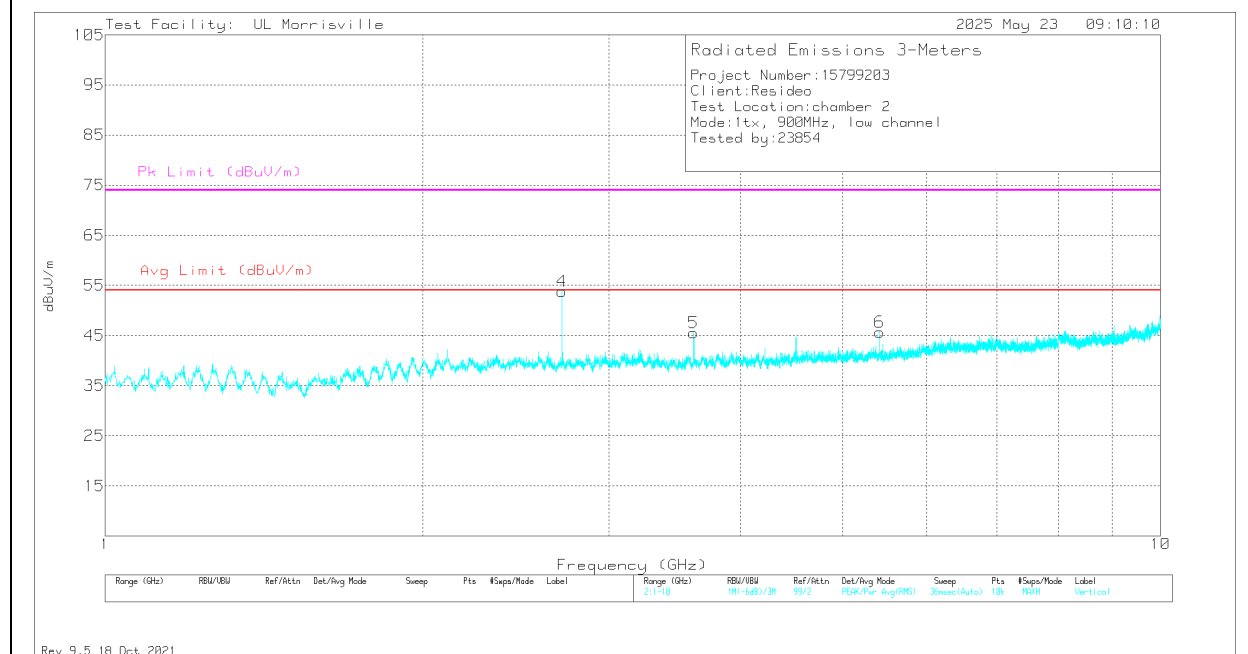
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

10.3. TRANSMITTER 1-10GHz (ANTENNA 1)

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

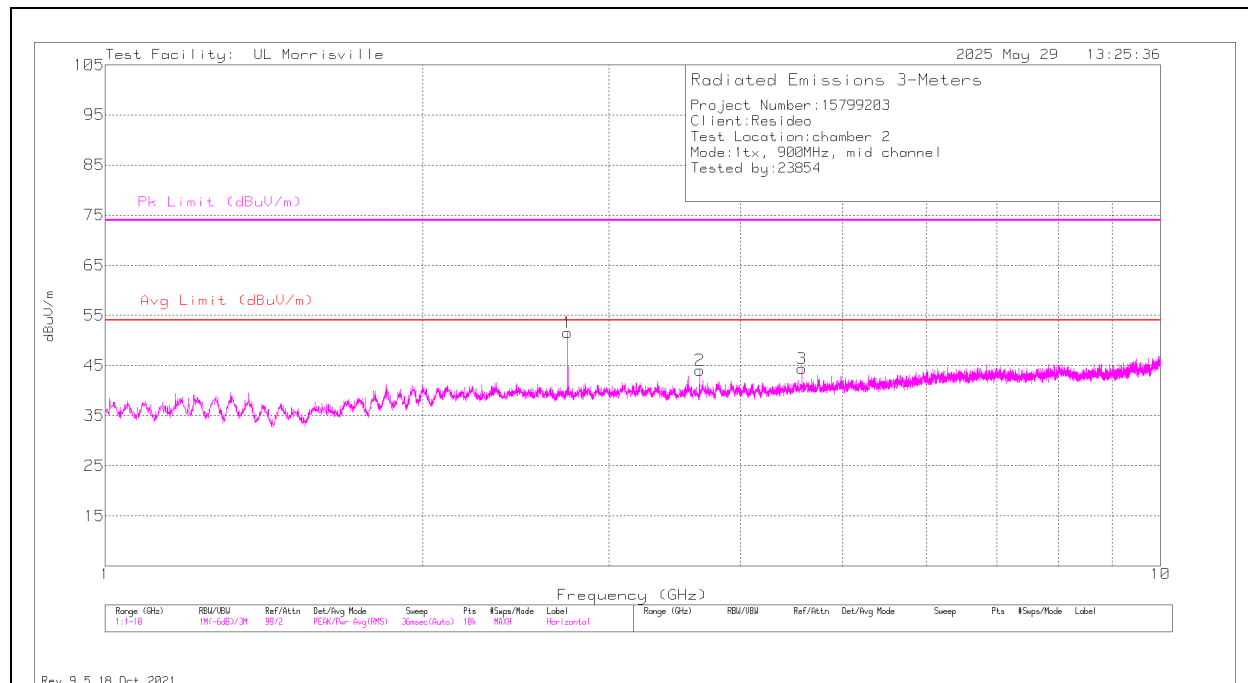
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading dBuV/m	Avg Limit (dBuV/m)	Margin (dB)	Pk Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.70905	68.09	Pk	32.2	-45.9	.4	54.79	-	-	74	-19.21	216	194	H
	* 2.70905	67.07	RMS	32.2	-45.9	.4	53.77	54	-.23	-	-	216	194	H
2	* 3.6118	57.03	Pk	33	-44.8	.2	45.43	54	-8.57	74	-28.57	0-360	400	H
3	* 5.4181	54.04	Pk	34.4	-43.8	.3	44.94	54	-9.06	74	-29.06	0-360	199	H
4	* 2.7091	67.74	Pk	32.2	-45.9	.4	54.44	-	-	74	-19.56	70	106	V
	* 2.7091	66.48	RMS	32.2	-45.9	.4	53.18	54	-.82	-	-	70	106	V
5	* 3.6118	57.15	Pk	33	-44.8	.2	45.55	54	-8.45	74	-28.45	0-360	400	V
6	* 5.4181	54.73	Pk	34.4	-43.8	.3	45.63	54	-8.37	74	-28.37	0-360	200	V

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

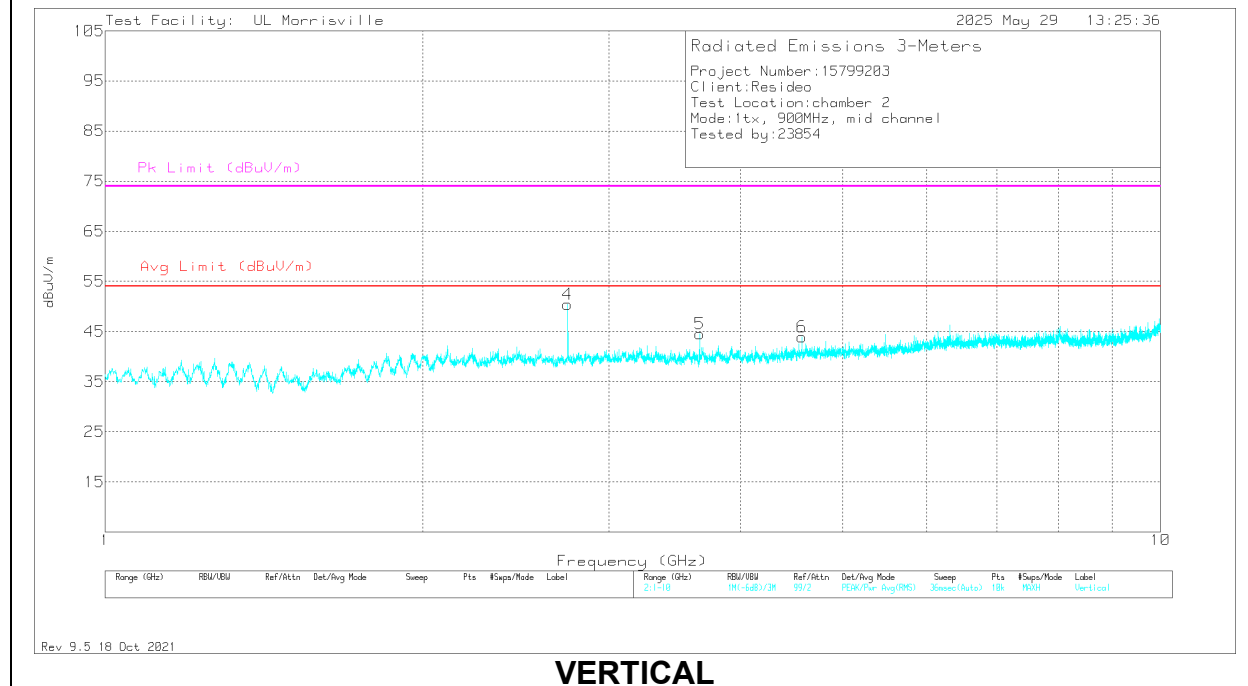
Pk - Peak detector

RMS - RMS detection

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

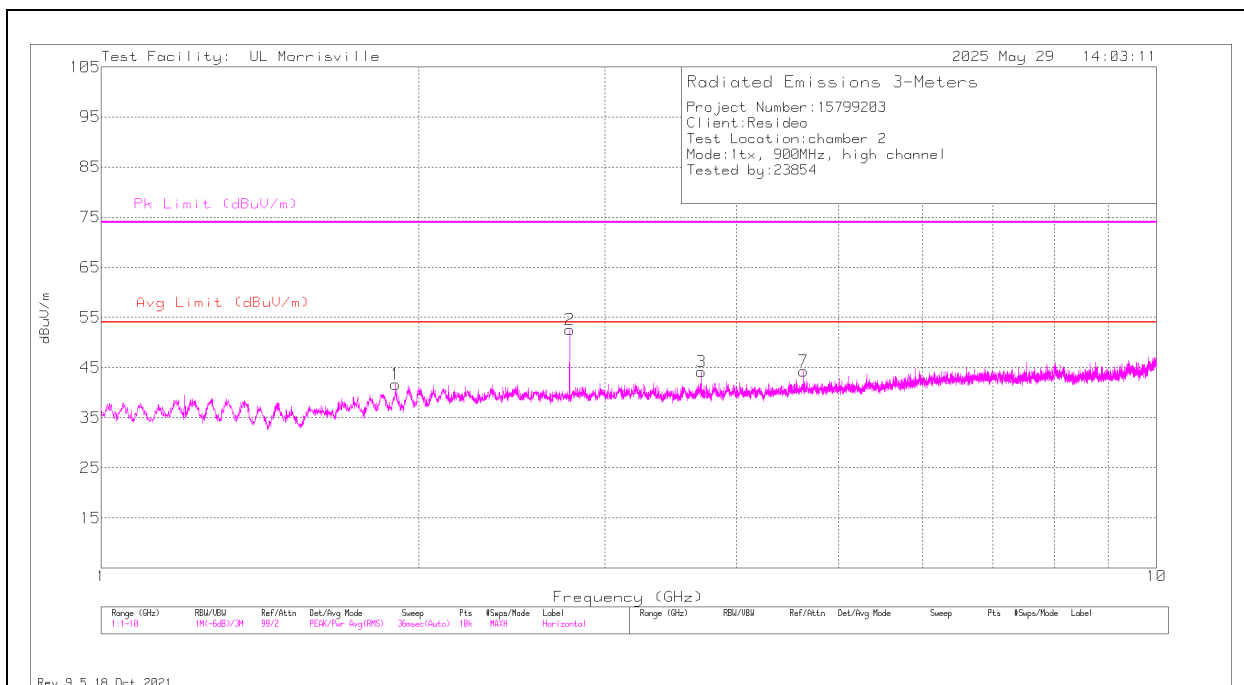
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading dBuV/m	Avg Limit (dBuV/m)	Margin (dB)	Pk Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.74382	64.85	Pk	32.3	-45.8	.4	51.75	-	-	74	-22.25	221	127	H
	* 2.74382	63.52	RMS	32.3	-45.8	.4	50.42	54	-3.58	-	-	221	127	H
2	* 3.6577	55.61	Pk	33.1	-45.1	.4	44.01	54	-9.99	74	-29.99	0-360	300	H
3	* 4.573	54.77	Pk	34	-44.7	.3	44.37	54	-9.63	74	-29.63	0-360	199	H
4	* 2.7438	64.04	Pk	32.3	-45.8	.4	50.94	-	-	74	-23.06	73	104	V
	* 2.7438	62.46	RMS	32.3	-45.8	.4	49.36	54	-4.64	-	-	73	104	V
5	* 3.6586	56.18	Pk	33.1	-45.1	.4	44.58	54	-9.42	74	-29.42	0-360	101	V
6	* 4.5721	54.33	Pk	34	-44.7	.3	43.93	54	-10.07	74	-30.07	0-360	400	V

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

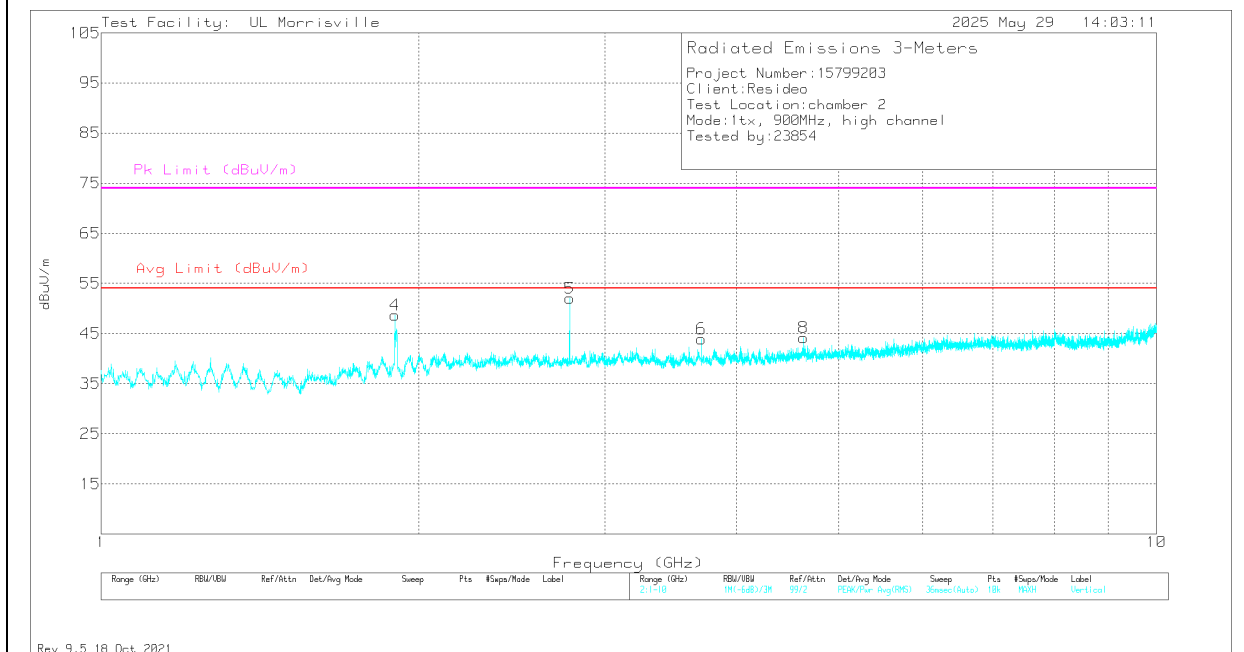
Pk - Peak detector

RMS - RMS detection

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading dBuV/m	Avg Limit (dBuV/m)	Margin (dB)	Pk Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.77922	64.97	Pk	32.4	-45.1	.5	52.77	-	-	74	-21.23	218	101	H
	* 2.77922	63.81	RMS	32.4	-45.1	.5	51.61	54	-2.39	-	-	218	101	H
3	* 3.7054	55.89	Pk	33.1	-45.1	.3	44.19	54	-9.81	74	-29.81	0-360	299	H
7	* 4.6324	54.66	Pk	34.1	-44.8	.3	44.26	54	-9.74	74	-29.74	0-360	200	H
5	* 2.77918	64.86	Pk	32.4	-45.1	.5	52.66	-	-	74	-21.34	71	101	V
	* 2.77918	63.58	RMS	32.4	-45.1	.5	51.38	54	-2.62	-	-	71	101	V
6	* 3.7054	55.59	Pk	33.1	-45.1	.3	43.89	54	-10.11	74	-30.11	0-360	300	V
8	* 4.6315	54.59	Pk	34.1	-44.8	.3	44.19	54	-9.81	74	-29.81	0-360	101	V
4	1.8991	65.18	Pk	31	-47.9	.4	48.68	-	-	-	-	0-360	400	V
1	1.9009	58.22	Pk	31	-48	.4	41.62	-	-	-	-	0-360	299	H

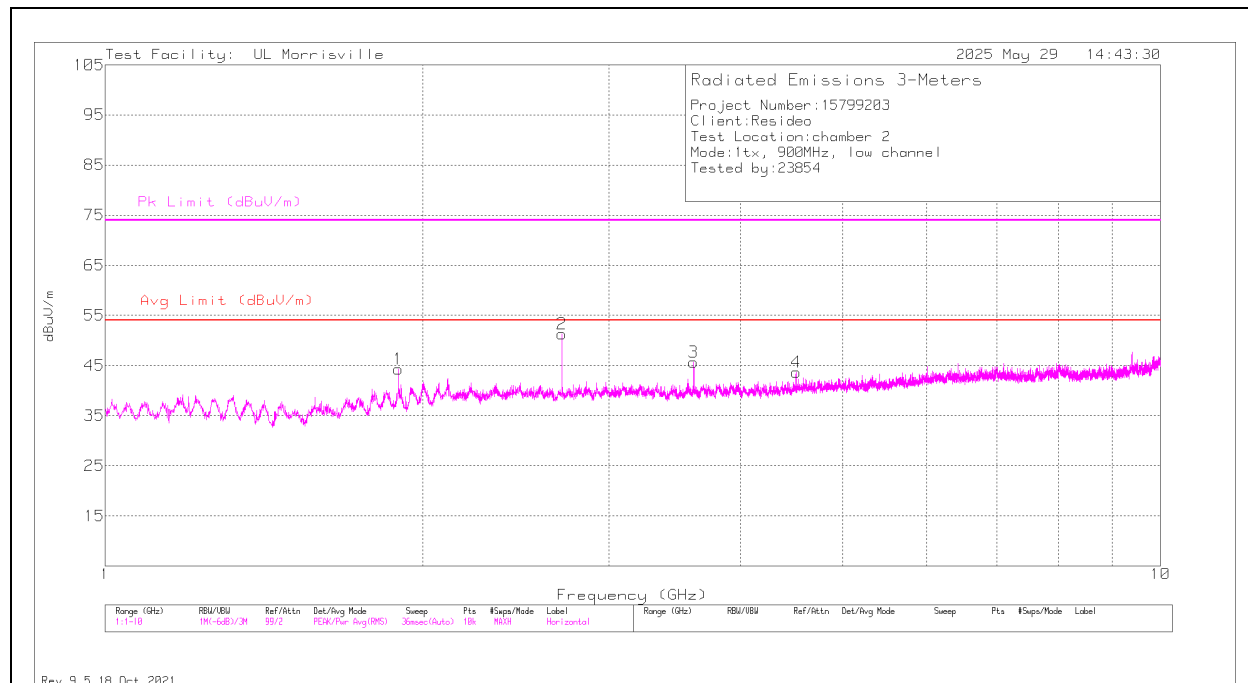
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

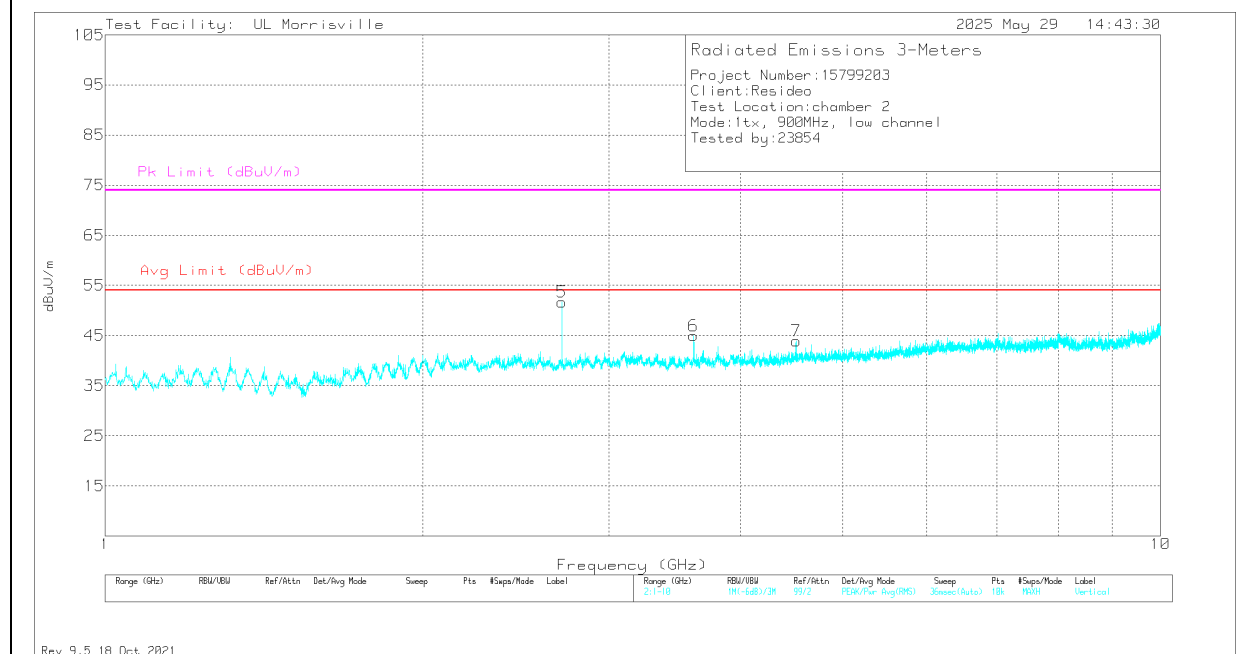
RMS - RMS detection

10.4. TRANSMITTER 1-10GHz (ANTENNA 2)

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

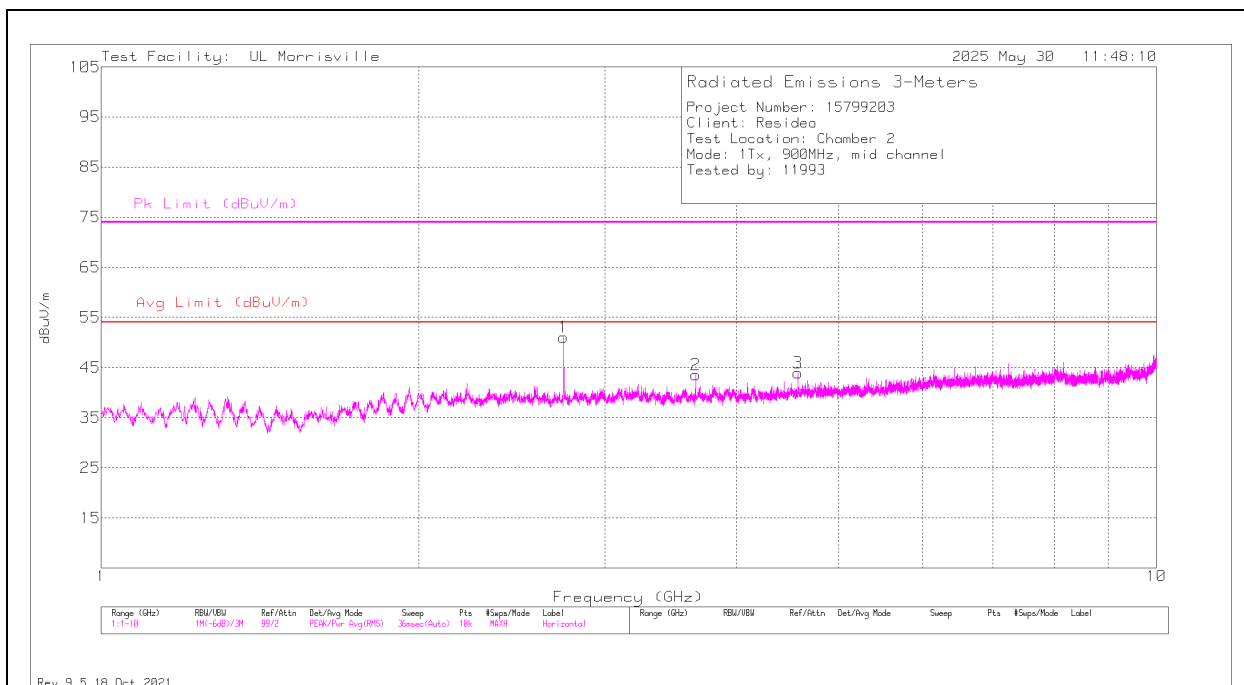
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading dBuV/m	Avg Limit (dBuV/m)	Margin (dB)	Pk Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degr)	Height (cm)	Polarity
2	* 2.70905	65.11	Pk	32.2	-45.9	.4	51.81	-	-	74	-22.19	215	105	H
	* 2.70905	64.1	RMS	32.2	-45.9	.4	50.8	54	-3.2	-	-	215	105	H
3	* 3.6118	57.31	Pk	33	-44.8	.2	45.71	54	-8.29	74	-28.29	0-360	199	H
4	* 4.5154	54.29	Pk	33.9	-44.8	.3	43.69	54	-10.31	74	-30.31	0-360	299	H
5	* 2.7089	64.92	Pk	32.2	-45.9	.4	51.62	-	-	74	-22.38	76	105	V
	* 2.7089	63.62	RMS	32.2	-45.9	.4	50.32	54	-3.68	-	-	76	105	V
6	* 3.6118	56.58	Pk	33	-44.8	.2	44.98	54	-9.02	74	-29.02	0-360	101	V
7	* 4.5154	54.54	Pk	33.9	-44.8	.3	43.94	54	-10.06	74	-30.06	0-360	101	V
1	1.8955	60.78	Pk	31	-47.9	.4	44.28	-	-	-	-	0-360	101	H

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

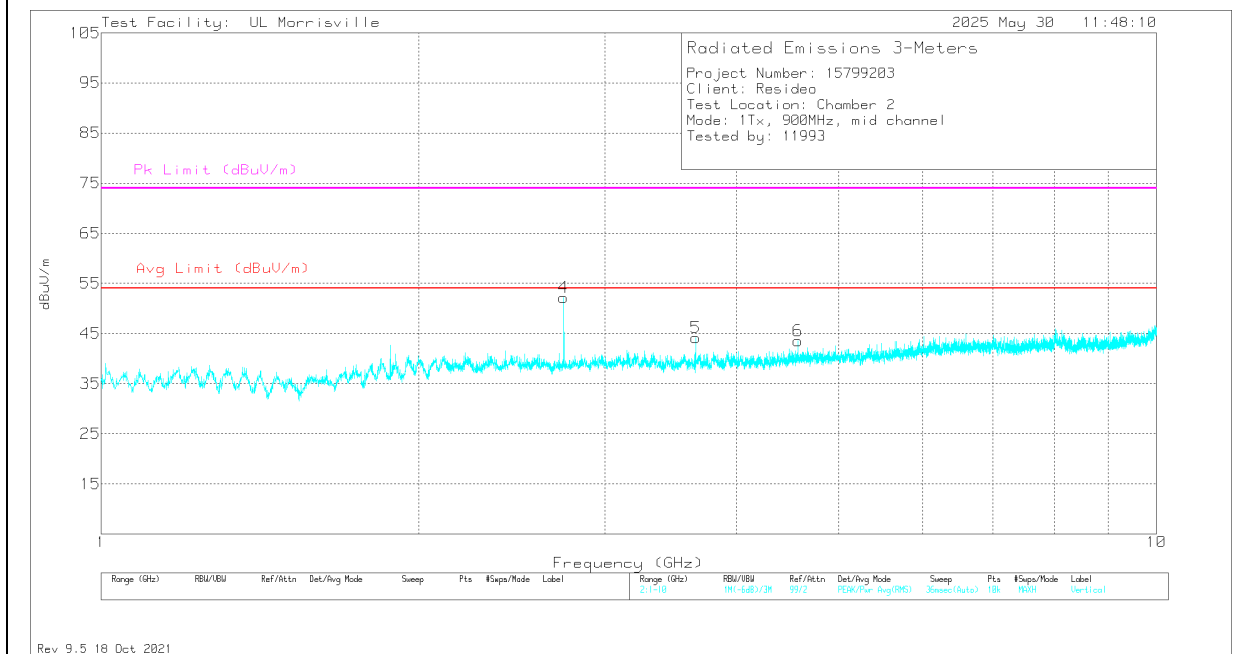
Pk - Peak detector

RMS - RMS detection

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

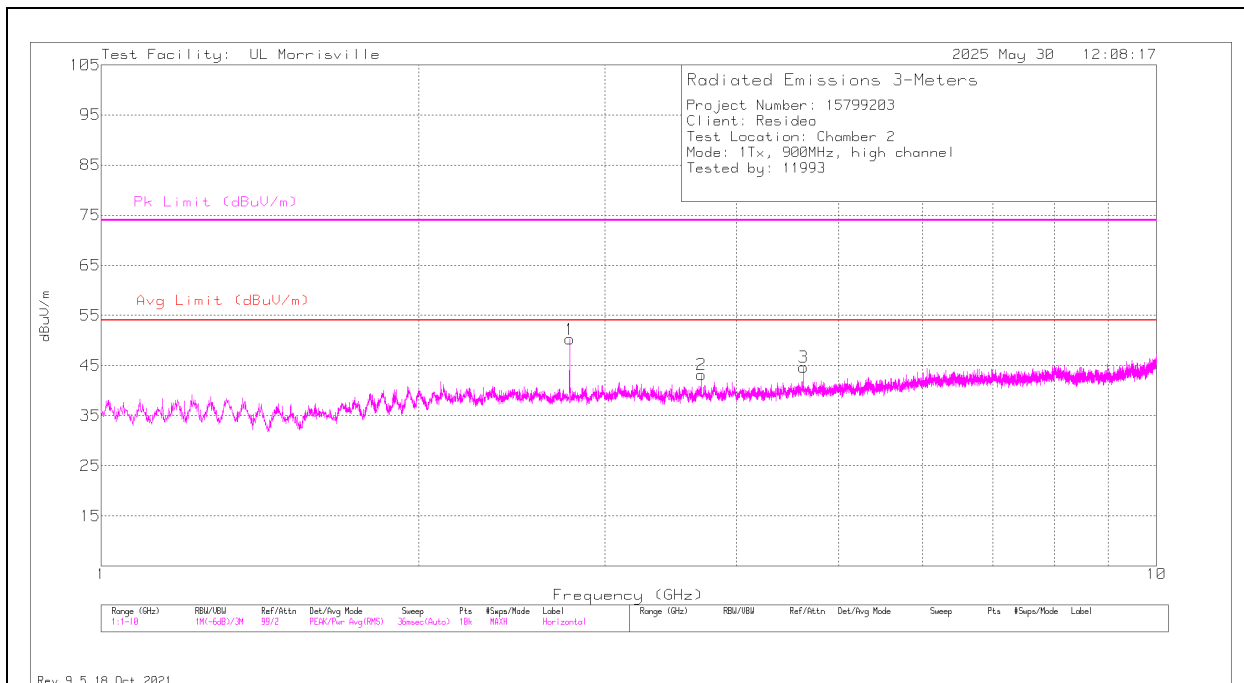
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading dBuV/m	Avg Limit (dBuV/m)	Margin (dB)	Pk Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.74369	65.61	Pk	32.3	-45.8	.4	52.51	-	-	74	-21.49	217	118	H
	* 2.74369	62.58	RMS	32.3	-45.8	.4	49.48	54	-4.52	-	-	217	118	H
2	* 3.6577	55.18	Pk	33.1	-45.1	.4	43.58	54	-10.42	74	-30.42	0-360	101	H
3	* 4.573	54.41	Pk	34	-44.7	.2	43.91	54	-10.09	74	-30.09	0-360	399	H
4	* 2.74378	66.3	Pk	32.3	-45.8	.4	53.2	-	-	74	-20.8	77	101	V
	* 2.74378	63.95	RMS	32.3	-45.8	.4	50.85	54	-3.15	-	-	77	101	V
5	* 3.6577	55.78	Pk	33.1	-45.1	.4	44.18	54	-9.82	74	-29.82	0-360	300	V
6	* 4.573	54.07	Pk	34	-44.7	.2	43.57	54	-10.43	74	-30.43	0-360	200	V

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

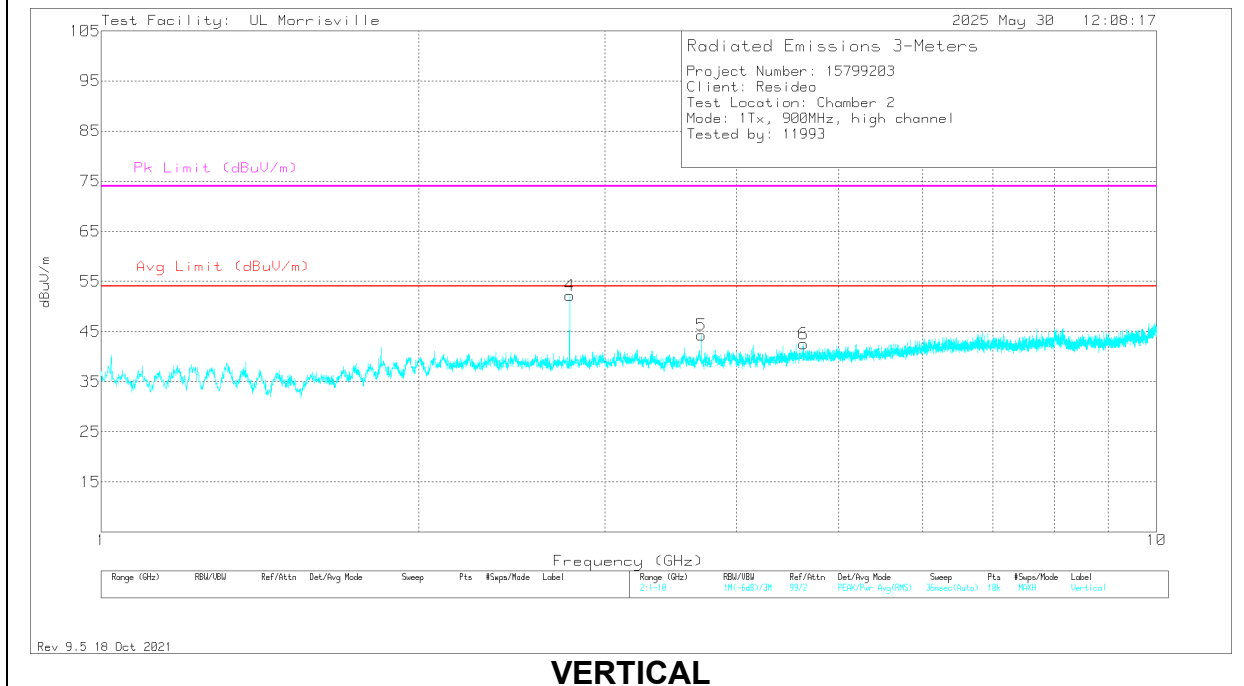
Pk - Peak detector

RMS - RMS detection

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

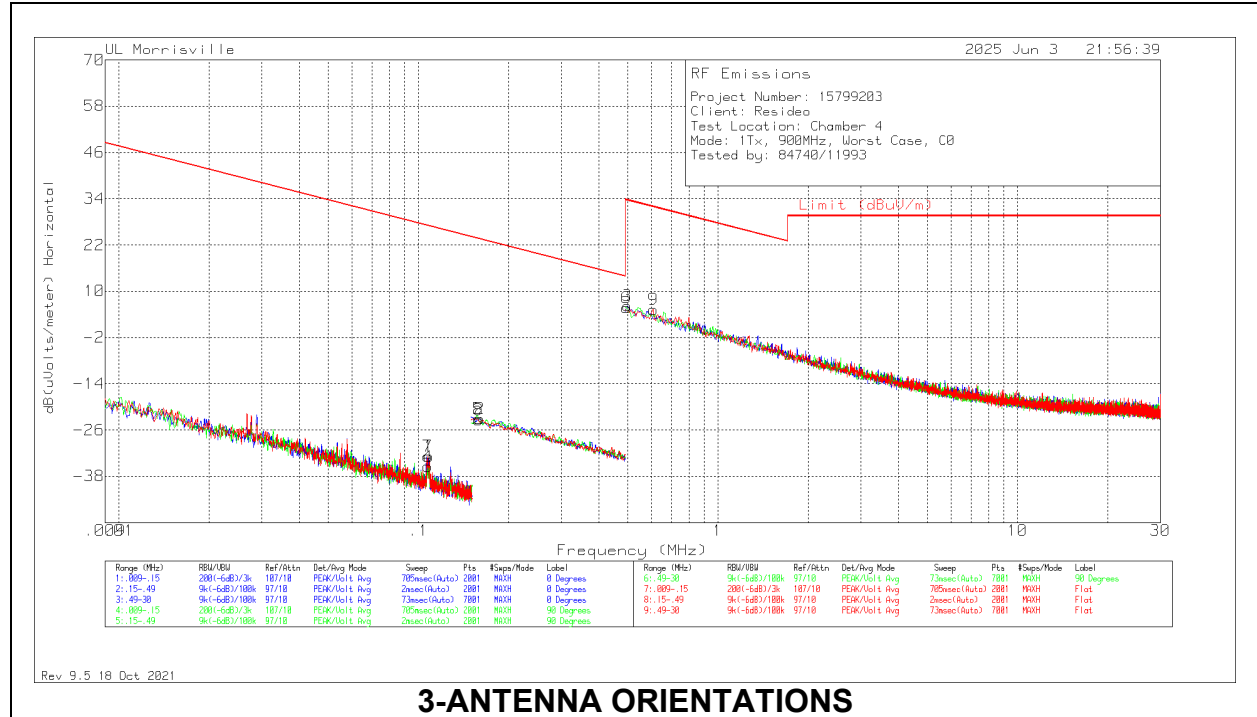
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading dBuV/m	Avg Limit (dBuV/m)	Margin (dB)	Pk Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.77912	64.7	Pk	32.4	-45.1	.4	52.4	-	-	74	-21.6	216	116	H
	* 2.77912	62.11	RMS	32.4	-45.1	.4	49.81	54	-4.19	-	-	216	116	H
2	* 3.7054	54.9	Pk	33.1	-45.1	.3	43.2	54	-10.8	74	-30.8	0-360	300	H
3	* 4.6324	55.04	Pk	34.1	-44.8	.3	44.64	54	-9.36	74	-29.36	0-360	200	H
4	* 2.77917	65.89	Pk	32.4	-45.1	.4	53.59	-	-	74	-20.41	70	104	V
	* 2.77917	63.72	RMS	32.4	-45.1	.4	51.42	54	-2.58	-	-	70	104	V
5	* 3.7054	55.98	Pk	33.1	-45.1	.3	44.28	54	-9.72	74	-29.72	0-360	300	V
6	* 4.6315	52.93	Pk	34.1	-44.8	.3	42.53	54	-11.47	74	-31.47	0-360	399	V

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

Pk - Peak detector

RMS - RMS detection

10.5. WORST-CASE CONFIGURATION 9kHz - 30MHz (ANTENNA 1)

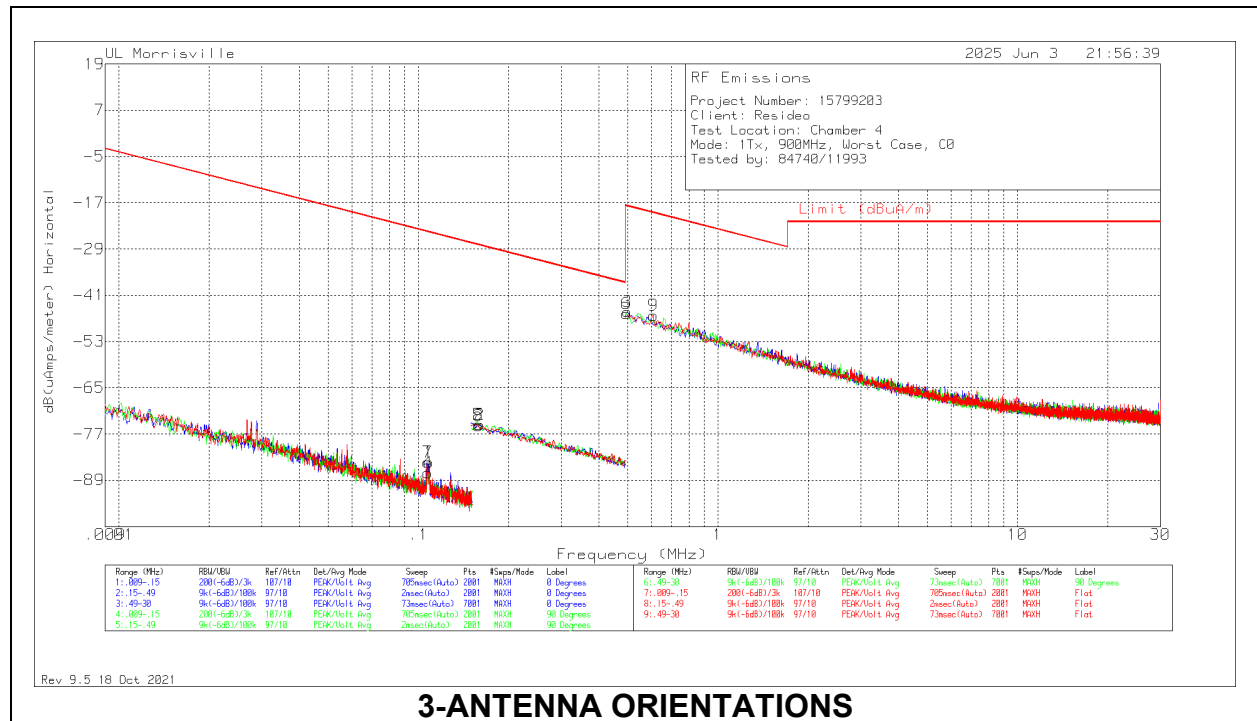


3-ANTENNA ORIENTATIONS

E-FIELD RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ANT (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	QP/AV Limit (dBuV/m)	PK Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
7	.10726	36.06	Pk	11.1	.1	-80	-32.74	27	-	-59.74	0-360	Flat
4	.10734	33.31	Pk	11.1	.1	-80	-35.49	26.99	-	-62.48	0-360	90 degs
1	.1084	35.95	Pk	11.1	.1	-80	-32.85	26.9	-	-59.75	0-360	0 degs
5	.1585	45.81	Pk	11	.1	-80	-23.09	23.6	43.6	-46.69	0-360	90 degs
8	.1585	45.51	Pk	11	.1	-80	-23.39	23.6	43.6	-46.99	0-360	Flat
2	.16012	45.8	Pk	11	.1	-80	-23.1	23.52	43.52	-46.62	0-360	0 degs
6	.49422	34.64	Pk	11	.1	-40	5.74	33.73	-	-27.99	0-360	90 degs
3	.49843	35.14	Pk	11	.1	-40	6.24	33.65	-	-27.41	0-360	0 degs
9	.60805	34.17	Pk	11	.1	-40	5.27	31.93	-	-26.66	0-360	Flat

Pk - Peak detector



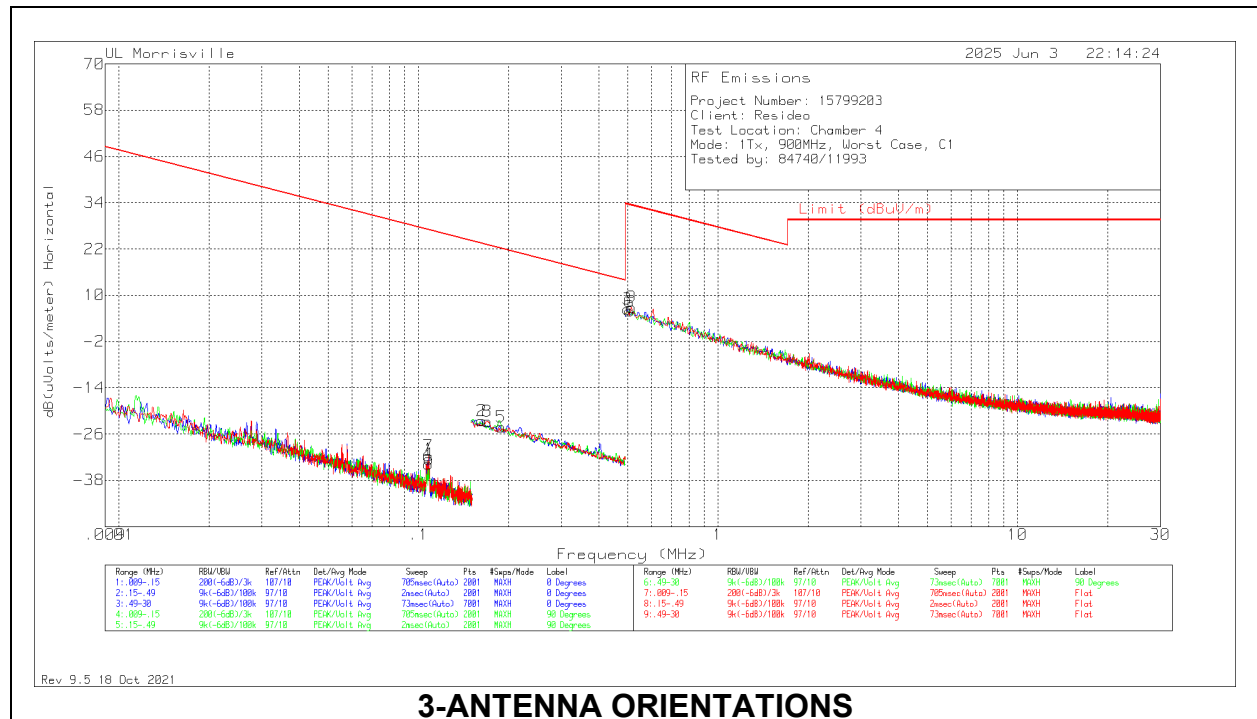
3-ANTENNA ORIENTATIONS

H-FIELD RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ANT (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uAmps/meter)	QP/AV Limit (dBuA/m)	PK Limit (dBuA/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
7	.10726	36.06	Pk	-40.4	.1	-80	-84.24	-24.5	-	-59.74	0-360	Flat
4	.10734	33.31	Pk	-40.4	.1	-80	-86.99	-24.51	-	-62.48	0-360	90 degs
1	.1084	35.95	Pk	-40.4	.1	-80	-84.35	-24.6	-	-59.75	0-360	0 degs
5	.1585	45.81	Pk	-40.5	.1	-80	-74.59	-27.9	-7.9	-46.69	0-360	90 degs
8	.1585	45.51	Pk	-40.5	.1	-80	-74.89	-27.9	-7.9	-46.99	0-360	Flat
2	.16012	45.8	Pk	-40.5	.1	-80	-74.6	-27.98	-7.98	-46.62	0-360	0 degs
6	.49422	34.64	Pk	-40.5	.1	-40	-45.76	-17.77	-	-27.99	0-360	90 degs
3	.49843	35.14	Pk	-40.5	.1	-40	-45.26	-17.85	-	-27.41	0-360	0 degs
9	.60805	34.17	Pk	-40.5	.1	-40	-46.23	-19.57	-	-26.66	0-360	Flat

Pk - Peak detector

10.6. WORST-CASE CONFIGURATION 9kHz - 30MHz (ANTENNA 2)

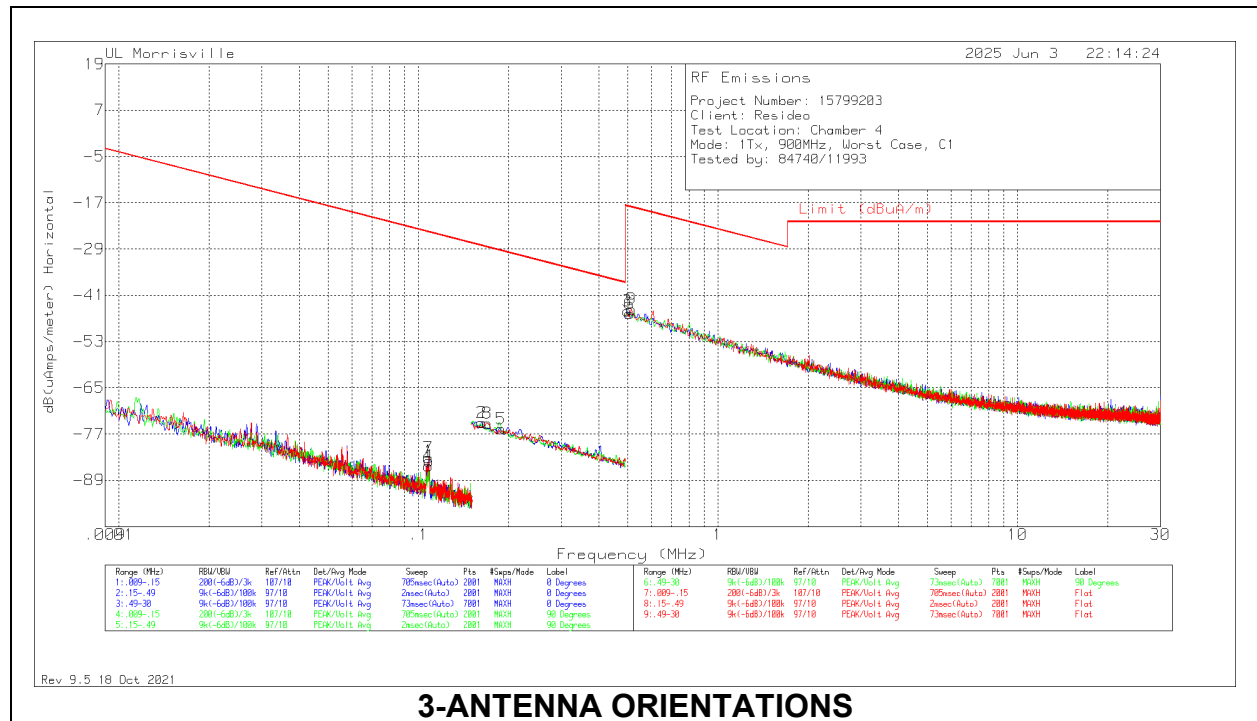


3-ANTENNA ORIENTATIONS

E-FIELD RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ANT (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	QP/AV Limit (dBuV/m)	PK Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
4	.10797	34.98	Pk	11.1	.1	-80	-33.82	26.94	-	-60.76	0-360	90 degs
7	.10812	37.11	Pk	11.1	.1	-80	-31.69	26.93	-	-58.62	0-360	Flat
1	.1084	36.34	Pk	11.1	.1	-80	-32.46	26.9	-	-59.36	0-360	0 degs
2	.16267	46.37	Pk	11	.1	-80	-22.53	23.38	43.38	-45.91	0-360	0 degs
8	.16998	46.15	Pk	11	.1	-80	-22.75	23	43	-45.75	0-360	Flat
5	.1891	44.76	Pk	11	.1	-80	-24.14	22.07	42.07	-46.21	0-360	90 degs
3	.49843	35.25	Pk	11	.1	-40	6.35	33.65	-	-27.3	0-360	0 degs
6	.50686	34.73	Pk	11	.1	-40	5.83	33.51	-	-27.68	0-360	90 degs
9	.5153	35.77	Pk	11	.1	-40	6.87	33.36	-	-26.49	0-360	Flat

Pk - Peak detector



3-ANTENNA ORIENTATIONS

E-FIELD RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ANT (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uAmps/meter)	QP/AV Limit (dBuA/m)	PK Limit (dBuA/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
4	.10797	34.98	Pk	-40.4	.1	-80	-85.32	-24.56	-	-60.76	0-360	90 degs
7	.10812	37.11	Pk	-40.4	.1	-80	-83.19	-24.57	-	-58.62	0-360	Flat
1	.1084	36.34	Pk	-40.4	.1	-80	-83.96	-24.6	-	-59.36	0-360	0 degs
2	.16267	46.37	Pk	-40.5	.1	-80	-74.03	-28.12	-28.12	-45.91	0-360	0 degs
8	.16998	46.15	Pk	-40.5	.1	-80	-74.25	-28.5	-28.5	-45.75	0-360	Flat
5	.1891	44.76	Pk	-40.5	.1	-80	-75.64	-29.43	-29.43	-46.21	0-360	90 degs
3	.49843	35.25	Pk	-40.5	.1	-40	-45.15	-17.85	-	-27.3	0-360	0 degs
6	.50686	34.73	Pk	-40.5	.1	-40	-45.67	-17.99	-	-27.68	0-360	90 degs
9	.5153	35.77	Pk	-40.5	.1	-40	-44.63	-18.14	-	-26.49	0-360	Flat

Pk - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)
RSS-Gen 8.8

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

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.

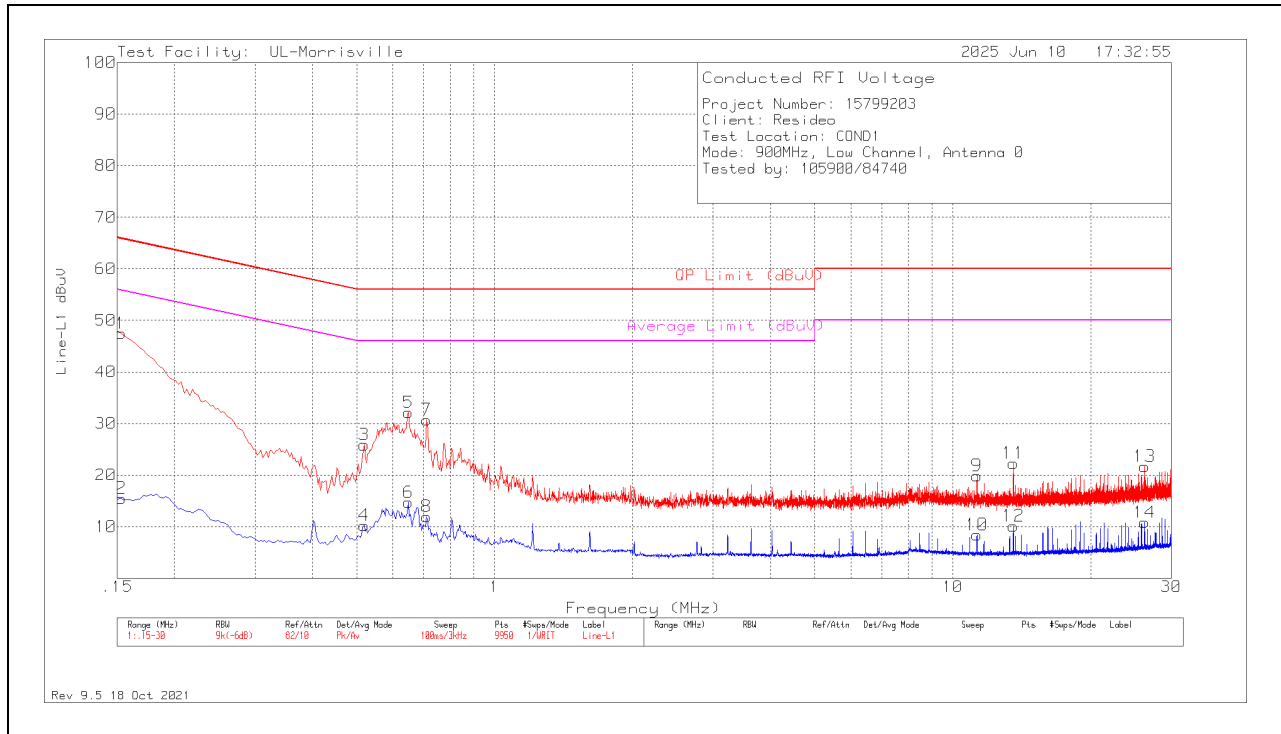
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both lines.

RESULTS

11.1. AC POWER LINE ANTENNA 1

LINE 1 RESULTS

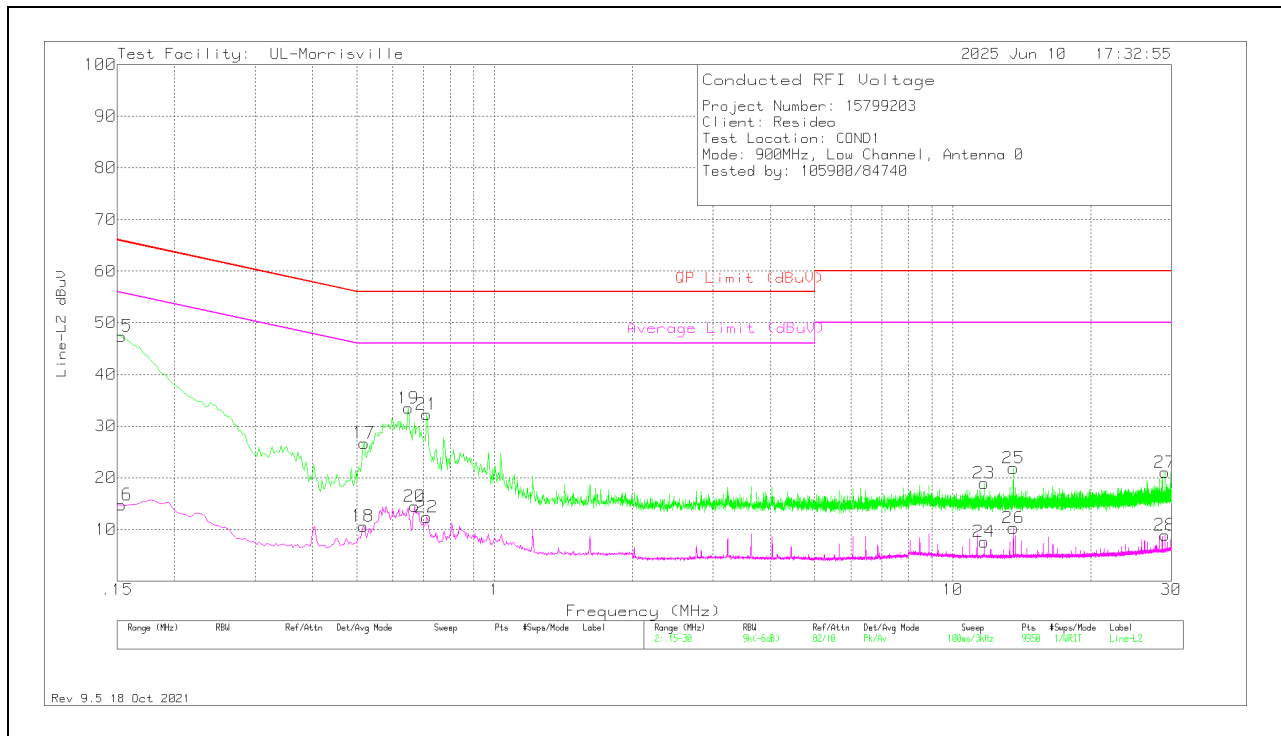


Range 1: Line-L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
1	.153	37.57	Pk	.2	9.7	47.47	65.84	-18.37	-	-
2	.153	5.58	Av	.2	9.7	15.48	-	-	55.84	-40.36
3	.519	16.18	Pk	0	9.7	25.88	56	-30.12	-	-
4	.519	.54	Av	0	9.7	10.24	-	-	46	-35.76
5	.648	22.42	Pk	0	9.7	32.12	56	-23.88	-	-
6	.648	5	Av	0	9.7	14.7	-	-	46	-31.3
7	.711	21	Pk	0	9.7	30.7	56	-25.3	-	-
8	.711	2.24	Av	0	9.7	11.94	-	-	46	-34.06
9	11.292	10.08	Pk	.1	9.7	19.88	60	-40.12	-	-
10	11.292	-1.4	Av	.1	9.7	8.4	-	-	50	-41.6
11	13.56	12.5	Pk	.1	9.7	22.3	60	-37.7	-	-
12	13.56	.34	Av	.1	9.7	10.14	-	-	50	-39.86
13	26.22	11.47	Pk	.4	9.8	21.67	60	-38.33	-	-
14	26.217	.62	Av	.4	9.8	10.82	-	-	50	-39.18

Pk - Peak detector

Av - Average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz

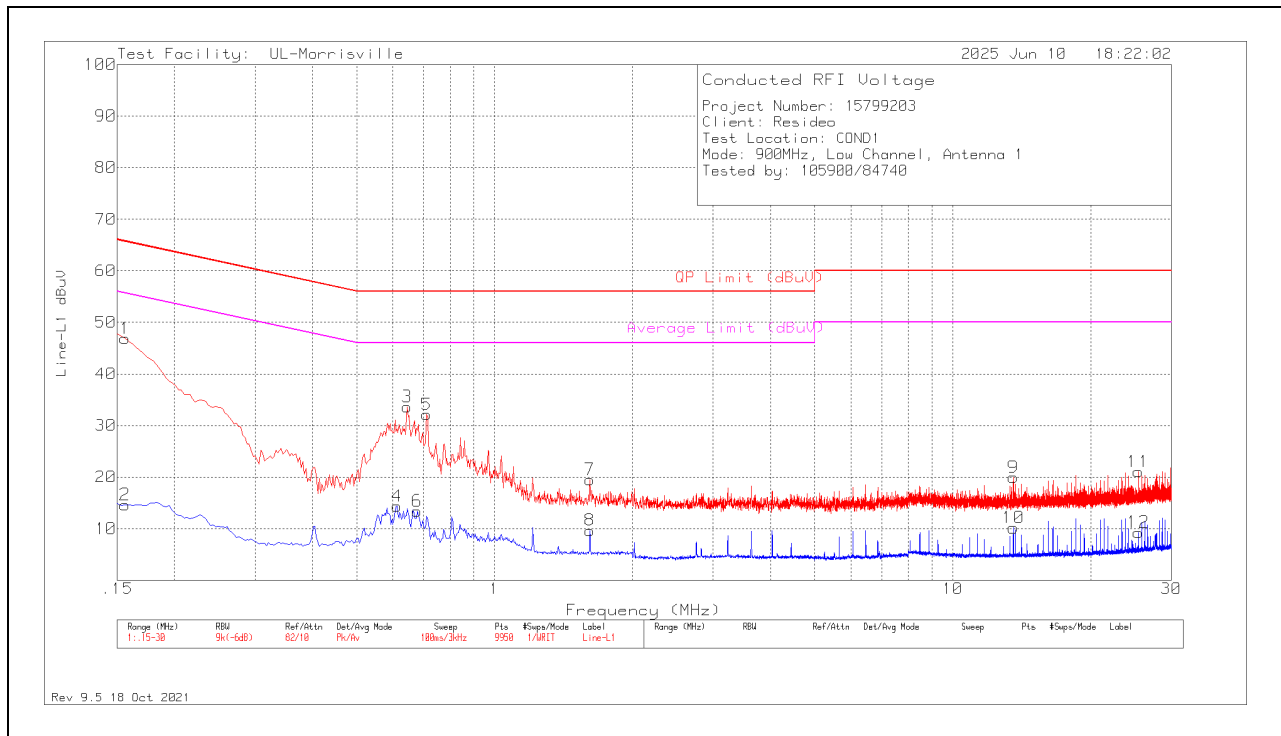
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
15	.153	37.51	Pk	.2	9.7	47.41	65.84	-18.43	-	-
16	.153	4.87	Av	.2	9.7	14.77	-	-	55.84	-41.07
17	.519	16.99	Pk	0	9.7	26.69	56	-29.31	-	-
18	.516	.92	Av	0	9.7	10.62	-	-	46	-35.38
19	.648	23.76	Pk	0	9.7	33.46	56	-22.54	-	-
20	.669	4.76	Av	0	9.7	14.46	-	-	46	-31.54
21	.711	22.57	Pk	0	9.7	32.27	56	-23.73	-	-
22	.711	2.66	Av	0	9.7	12.36	-	-	46	-33.64
23	11.697	9.13	Pk	.1	9.7	18.93	60	-41.07	-	-
24	11.7	-2.2	Av	.1	9.7	7.6	-	-	50	-42.4
25	13.56	12.06	Pk	.1	9.7	21.86	60	-38.14	-	-
26	13.563	.49	Av	.1	9.7	10.29	-	-	50	-39.71
27	29.052	10.73	Pk	.5	9.8	21.03	60	-38.97	-	-
28	29.049	-1.42	Av	.5	9.8	8.88	-	-	50	-41.12

Pk - Peak detector

Av - Average detection

11.2. AC POWER LINE ANTENNA 2

LINE 1 RESULTS

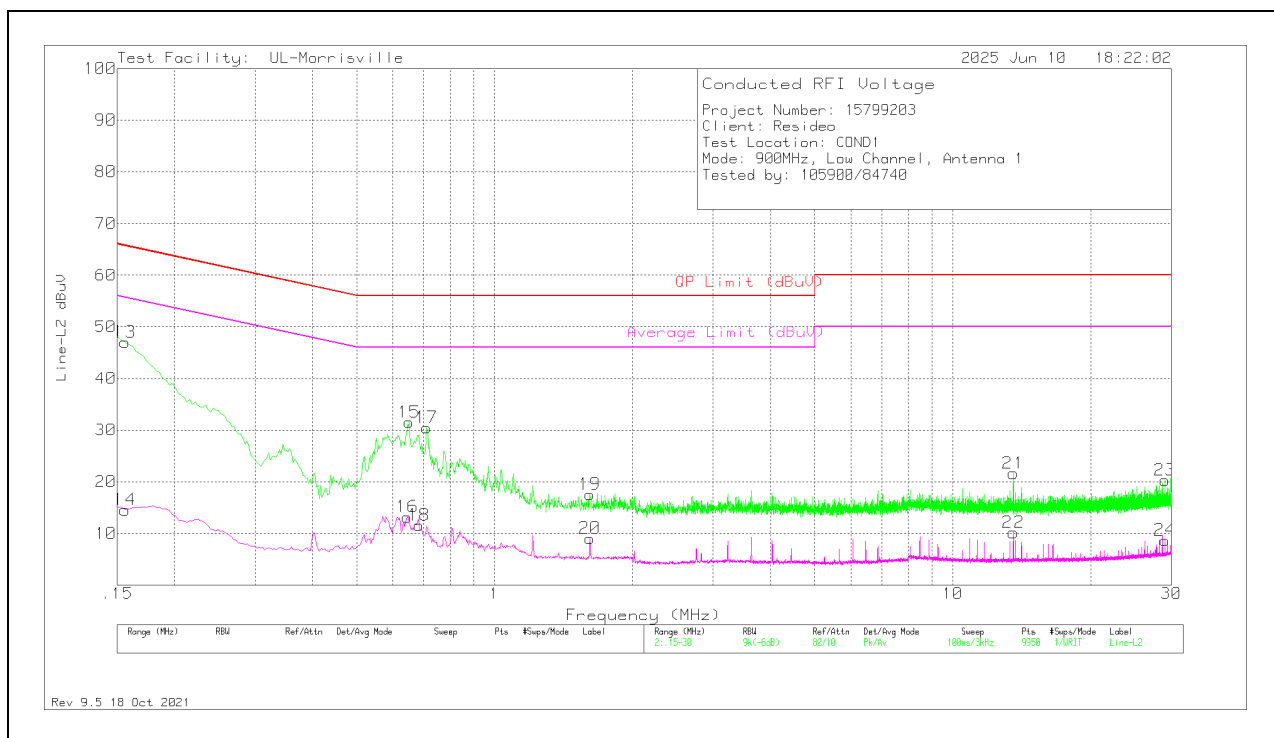


Range 1: Line-L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
1	.156	36.96	Pk	.2	9.7	46.86	65.67	-18.81	-	-
2	.156	4.72	Av	.2	9.7	14.62	-	-	55.67	-41.05
3	.645	23.92	Pk	0	9.7	33.62	56	-22.38	-	-
4	.612	4.65	Av	0	9.7	14.35	-	-	46	-31.65
5	.711	22.42	Pk	0	9.7	32.12	56	-23.88	-	-
6	.678	3.7	Av	0	9.7	13.4	-	-	46	-32.6
7	1.614	9.79	Pk	0	9.7	19.49	56	-36.51	-	-
8	1.614	-.03	Av	0	9.7	9.67	-	-	46	-36.33
9	13.563	10.15	Pk	.1	9.7	19.95	60	-40.05	-	-
10	13.56	.38	Av	.1	9.7	10.18	-	-	50	-39.82
11	25.422	10.83	Pk	.4	9.8	21.03	60	-38.97	-	-
12	25.422	-.94	Av	.4	9.8	9.26	-	-	50	-40.74

Pk - Peak detector

Av - Average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
13	.156	37.12	Pk	.2	9.7	47.02	65.67	-18.65	-	-
14	.156	4.66	Av	.2	9.7	14.56	-	-	55.67	-41.11
15	.651	21.82	Pk	0	9.7	31.52	56	-24.48	-	-
16	.645	3.49	Av	0	9.7	13.19	-	-	46	-32.81
17	.711	20.75	Pk	0	9.7	30.45	56	-25.55	-	-
18	.684	1.87	Av	0	9.7	11.57	-	-	46	-34.43
19	1.614	7.87	Pk	0	9.7	17.57	56	-38.43	-	-
20	1.614	-.69	Av	0	9.7	9.01	-	-	46	-36.99
21	13.56	11.83	Pk	.1	9.7	21.63	60	-38.37	-	-
22	13.563	.37	Av	.1	9.7	10.17	-	-	50	-39.83
23	29.058	9.98	Pk	.5	9.8	20.28	60	-39.72	-	-
24	29.055	-1.63	Av	.5	9.8	8.67	-	-	50	-41.33

Pk - Peak detector

Av - Average detection

12. SETUP PHOTOS

Please refer to R15799203-EP1 for setup photos

END OF TEST REPORT