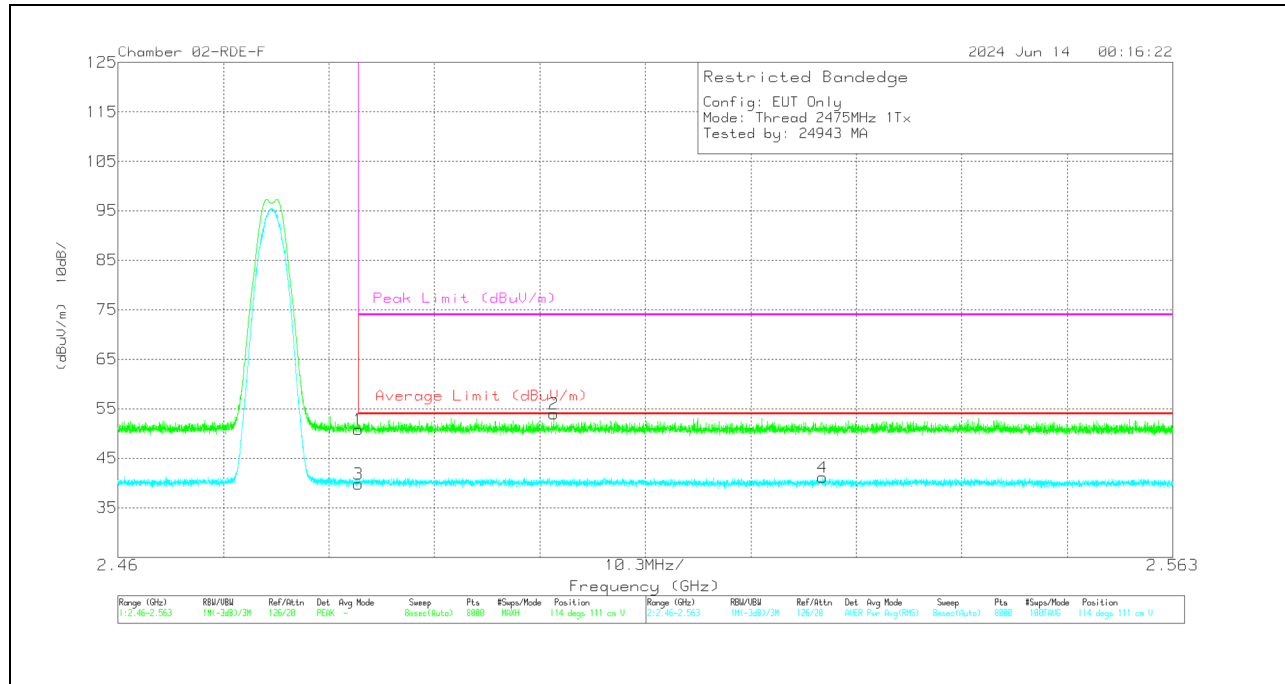


VERTICAL RESULT



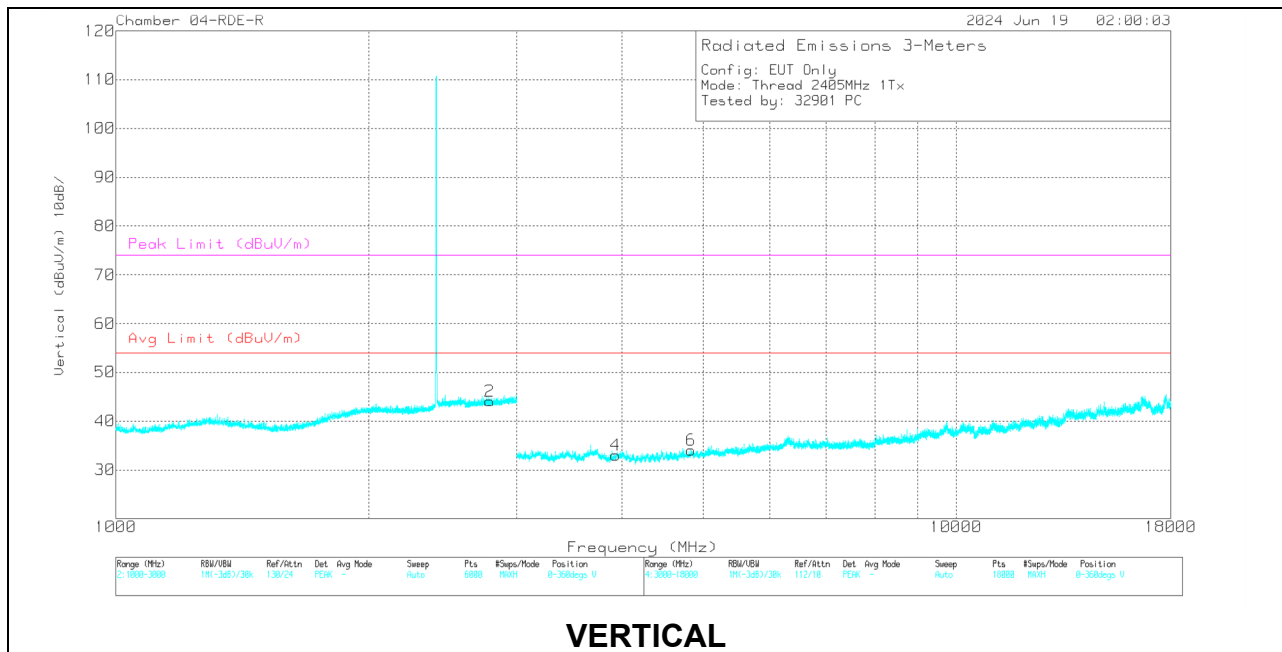
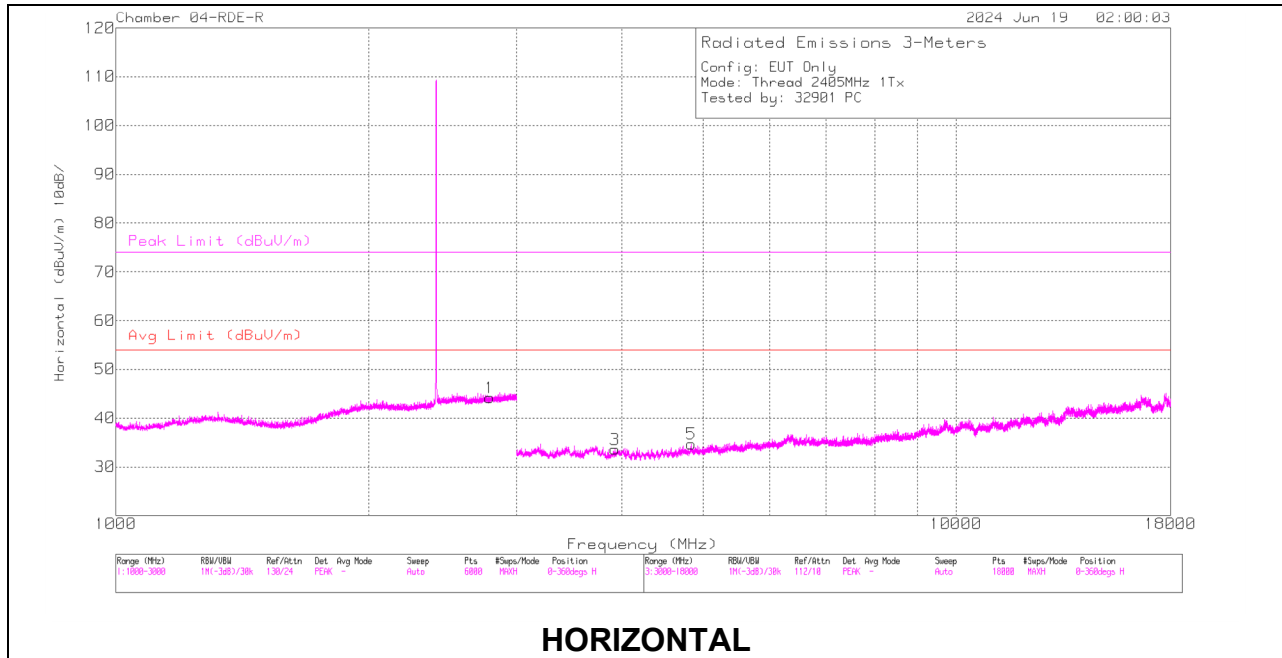
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206806 ACF (dB/m)	DCCF (dB)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	57.33	Pk	32.2	0	-38.7	50.83	-	-	74	-23.17	114	111	V
3	* 2.4835	46.33	RMS	32.2	0	-38.7	39.83	54	-14.17	-	-	114	111	V
2	2.502546	60.33	Pk	32.2	0	-38.6	53.93	-	-	74	-20.07	114	111	V
4	2.528789	47.52	RMS	32.2	0	-38.6	41.12	54	-12.88	-	-	114	111	V

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

10.1.7. ANT3, 802.15.4 HIGH POWER, HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



Radiated Emissions

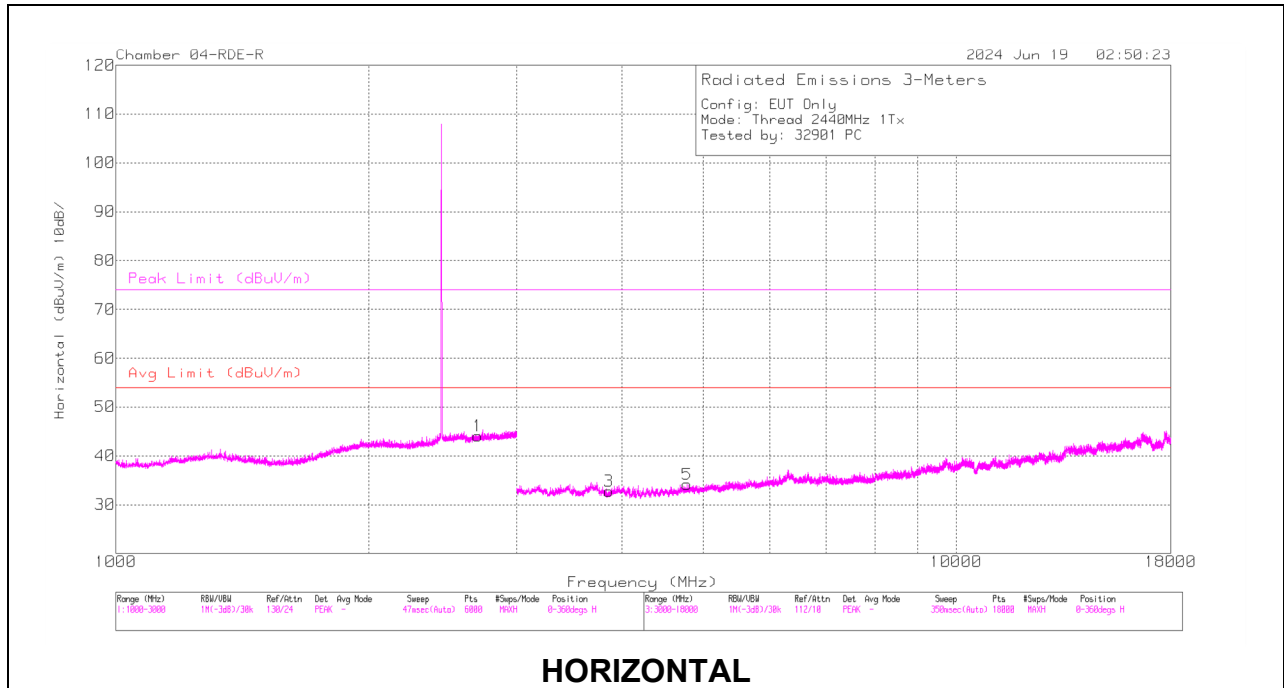
Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	60.43	PK2	32.4	-38.9	53.93	-	-	74	-20.07	217	125	H
1	48.88	MAv1	32.4	-38.9	42.38	54	-11.62	-	-	217	125	H
2	60.71	PK2	32.4	-38.92	54.19	-	-	74	-19.81	62	181	V
2	48.76	MAv1	32.4	-38.92	42.24	54	-11.76	-	-	62	181	V
3	57.42	PK2	33.3	-47.72	43	-	-	74	-31	212	212	H
3	45.92	MAv1	33.3	-47.69	31.53	54	-22.47	-	-	212	212	H
5	57.09	PK2	34.1	-47.29	43.9	-	-	74	-30.1	301	351	H
5	45.58	MAv1	34.1	-47.23	32.45	54	-21.55	-	-	301	351	H
4	58.44	PK2	33.3	-47.98	43.76	-	-	74	-30.24	102	102	V
4	46.33	MAv1	33.3	-47.99	31.64	54	-22.36	-	-	102	102	V
6	57.51	PK2	34.1	-47.26	44.35	-	-	74	-29.65	241	334	V
6	45.56	MAv1	34.1	-47.3	32.36	54	-21.64	-	-	241	334	V

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

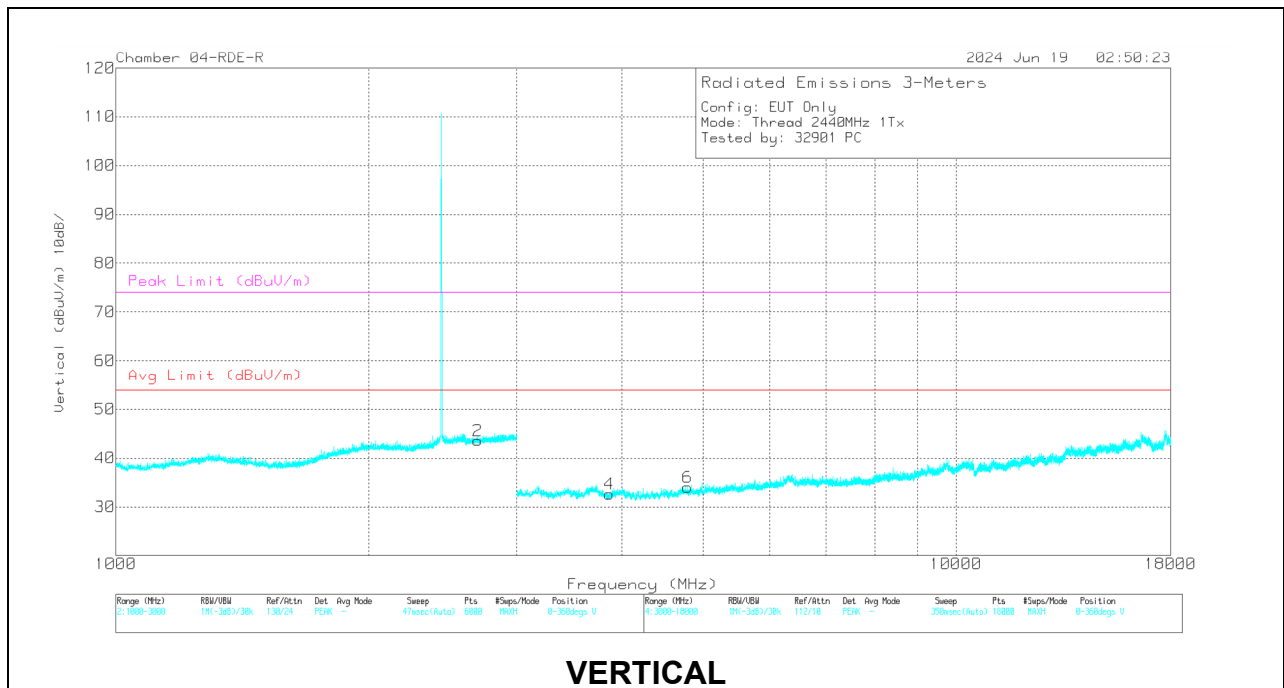
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

Radiated Emissions

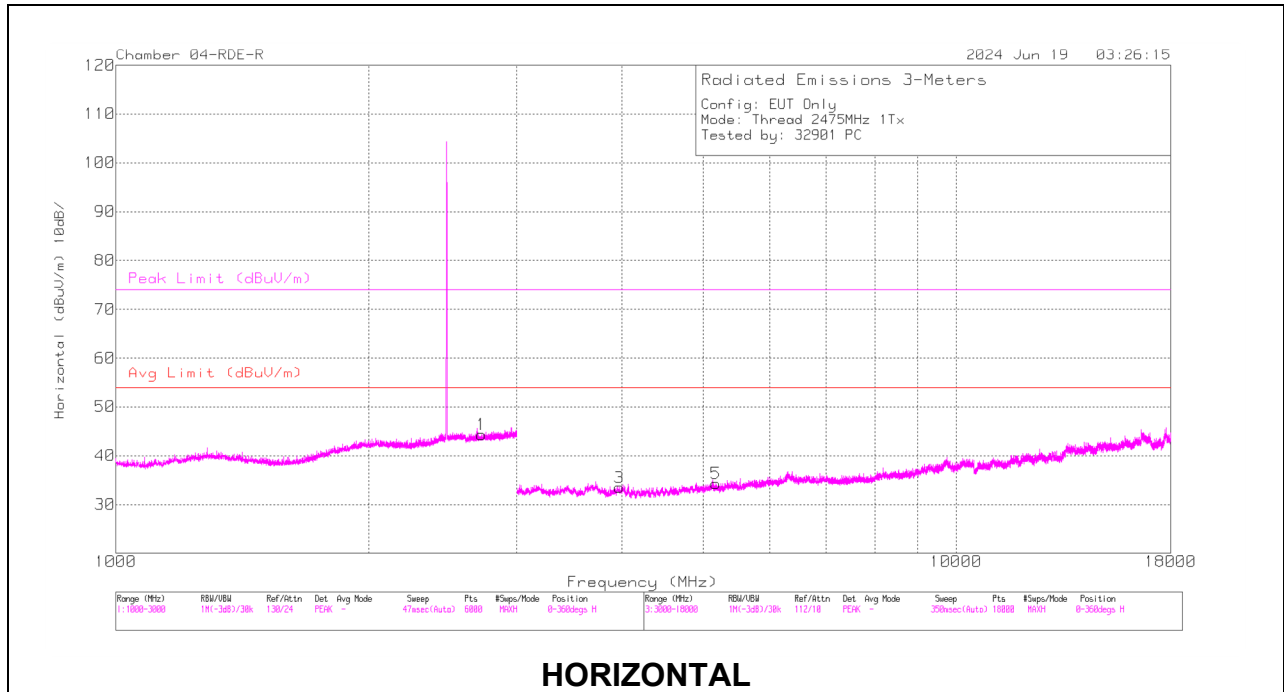
Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	60.78	PK2	32.3	-39.2	53.88	-	-	74	-20.12	271	394	H
1	49.13	MAv1	32.3	-39.2	42.23	54	-11.77	-	-	271	394	H
2	60.9	PK2	32.3	-39.17	54.03	-	-	74	-19.97	358	292	V
2	49	MAv1	32.3	-39.24	42.06	54	-11.94	-	-	358	292	V
3	56.59	PK2	33.3	-47.03	42.86	-	-	74	-31.14	227	193	H
3	44.84	MAv1	33.3	-47	31.14	54	-22.86	-	-	227	193	H
5	58.07	PK2	34.1	-47.7	44.47	-	-	74	-29.53	340	179	H
5	45.73	MAv1	34.1	-47.71	32.12	54	-21.88	-	-	340	179	H
4	56.37	PK2	33.3	-47	42.67	-	-	74	-31.33	358	136	V
4	44.93	MAv1	33.3	-47	31.23	54	-22.77	-	-	358	136	V
6	57.22	PK2	34.1	-47.81	43.51	-	-	74	-30.49	10	243	V
6	45.7	MAv1	34.1	-47.81	31.99	54	-22.01	-	-	10	243	V

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

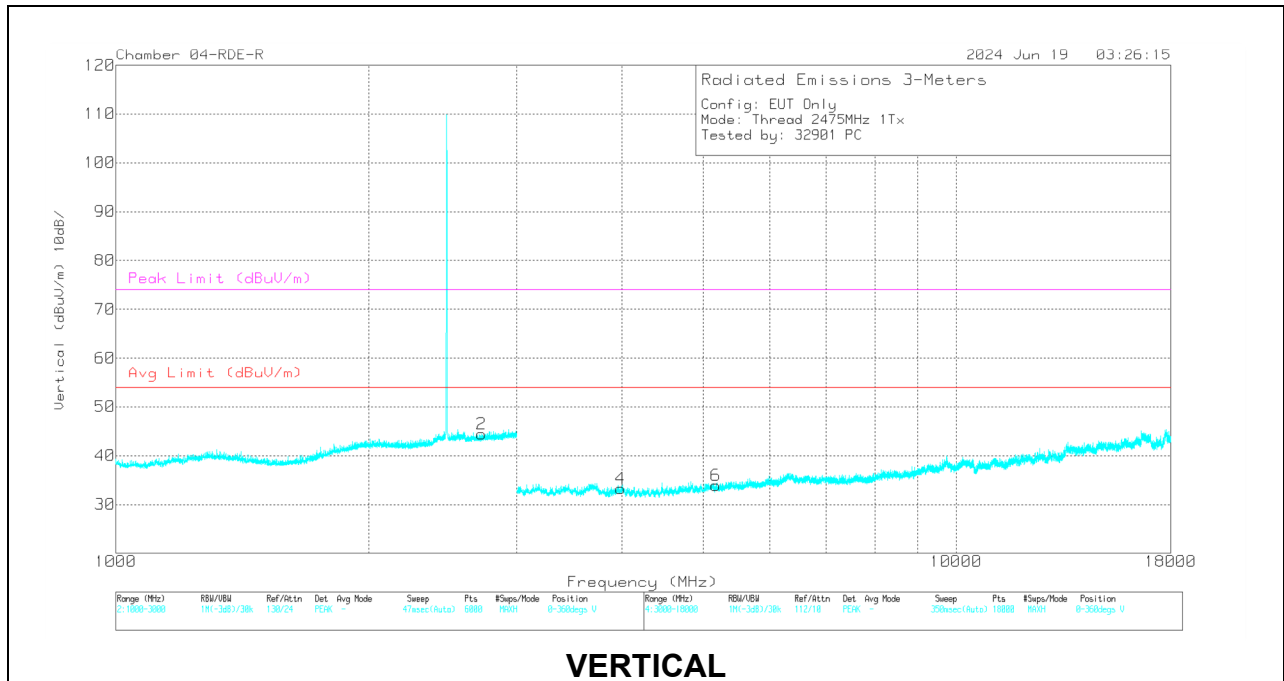
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	41112 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	60.69	PK2	32.3	-39.18	53.81	-	-	74	-20.19	137	397	H
1	49.04	MAv1	32.3	-39.18	42.16	54	-11.84	-	-	137	397	H
2	60.62	PK2	32.3	-39.18	53.74	-	-	74	-20.26	103	360	V
2	49.15	MAv1	32.3	-39.19	42.26	54	-11.74	-	-	103	360	V
3	58.6	PK2	33.3	-48.14	43.76	-	-	74	-30.24	255	116	H
3	46.6	MAv1	33.3	-48.14	31.76	54	-22.24	-	-	255	116	H
4	58.25	PK2	33.3	-48.07	43.48	-	-	74	-30.52	141	353	V
4	46.66	MAv1	33.3	-48.1	31.86	54	-22.14	-	-	141	353	V
6	44.59	MAv1	34.3	-46.47	32.42	-	-	-	-	2	244	V
6	56.64	PK2	34.3	-46.51	44.43	-	-	74	-29.57	2	244	V
5	44.87	MAv1	34.3	-46.54	32.63	-	-	-	-	303	293	H
5	56.41	PK2	34.3	-46.54	44.17	-	-	74	-29.83	303	293	H

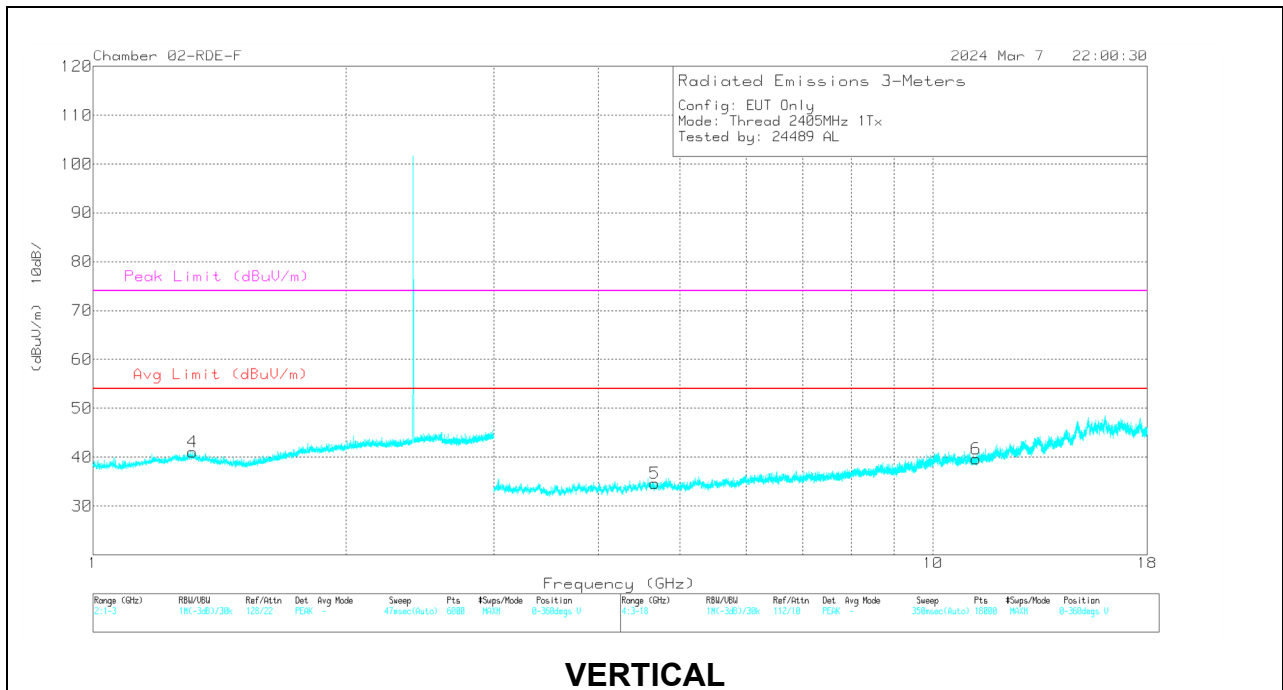
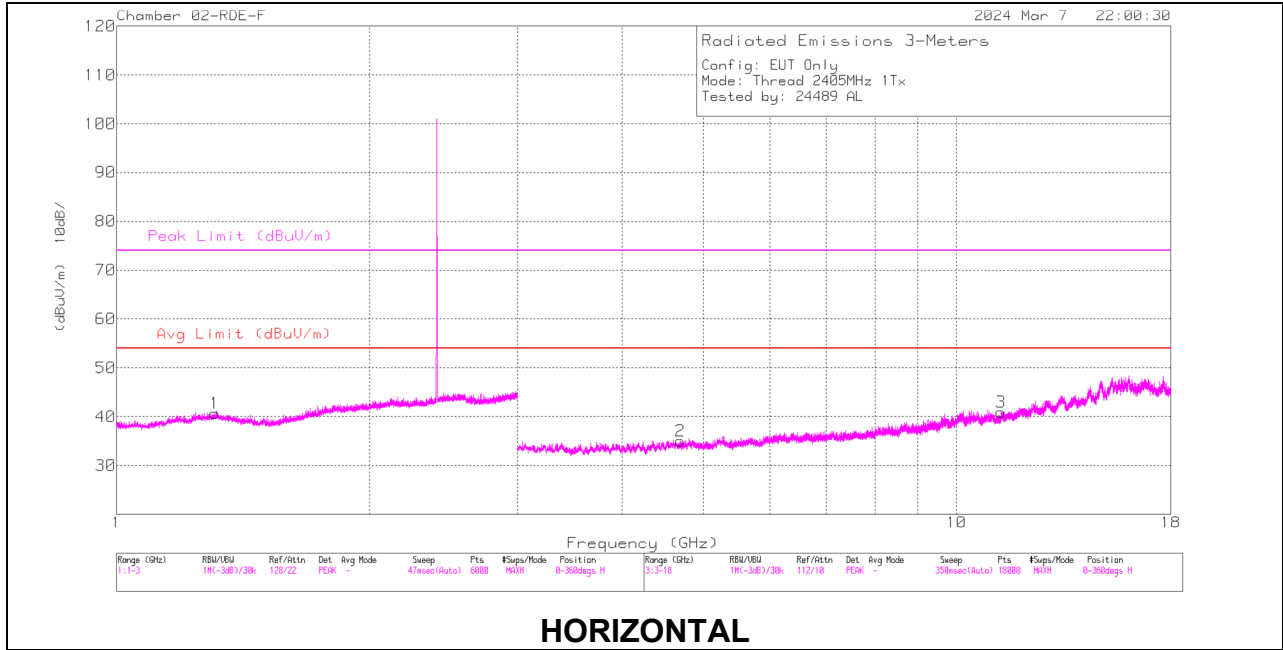
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

10.1.8. ANT3, 802.15.4 LOW POWER, HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS

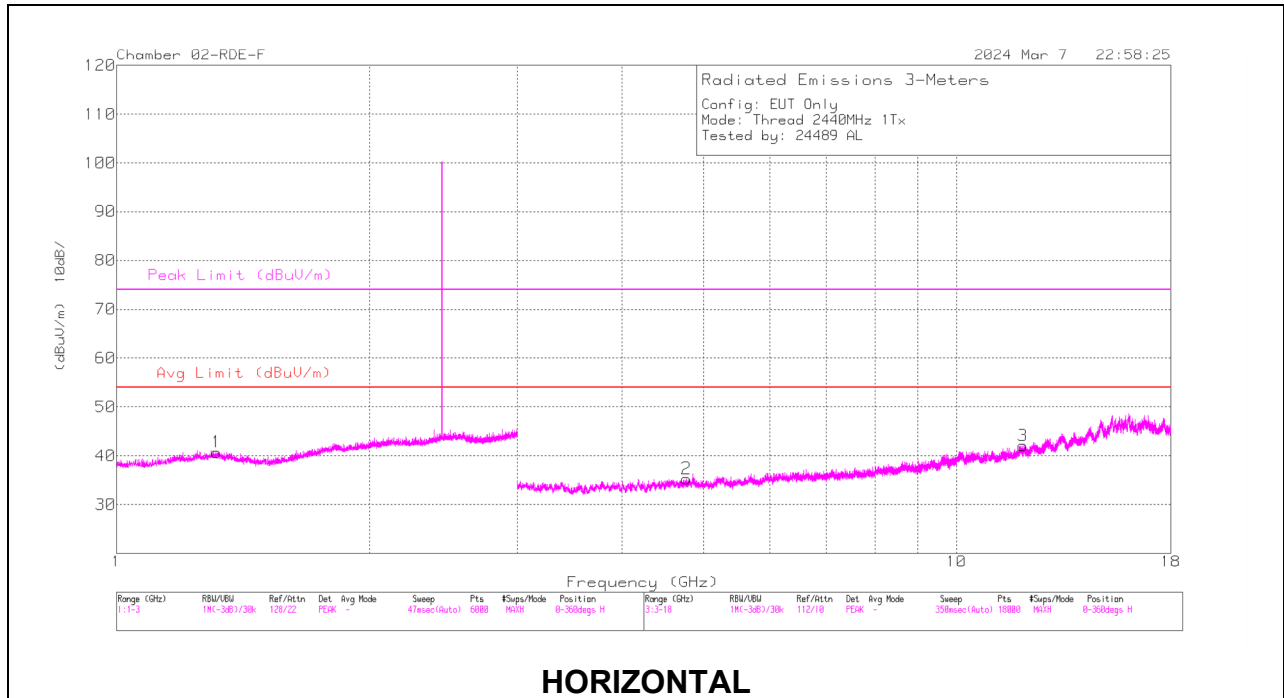


RADIATED EMISSIONS

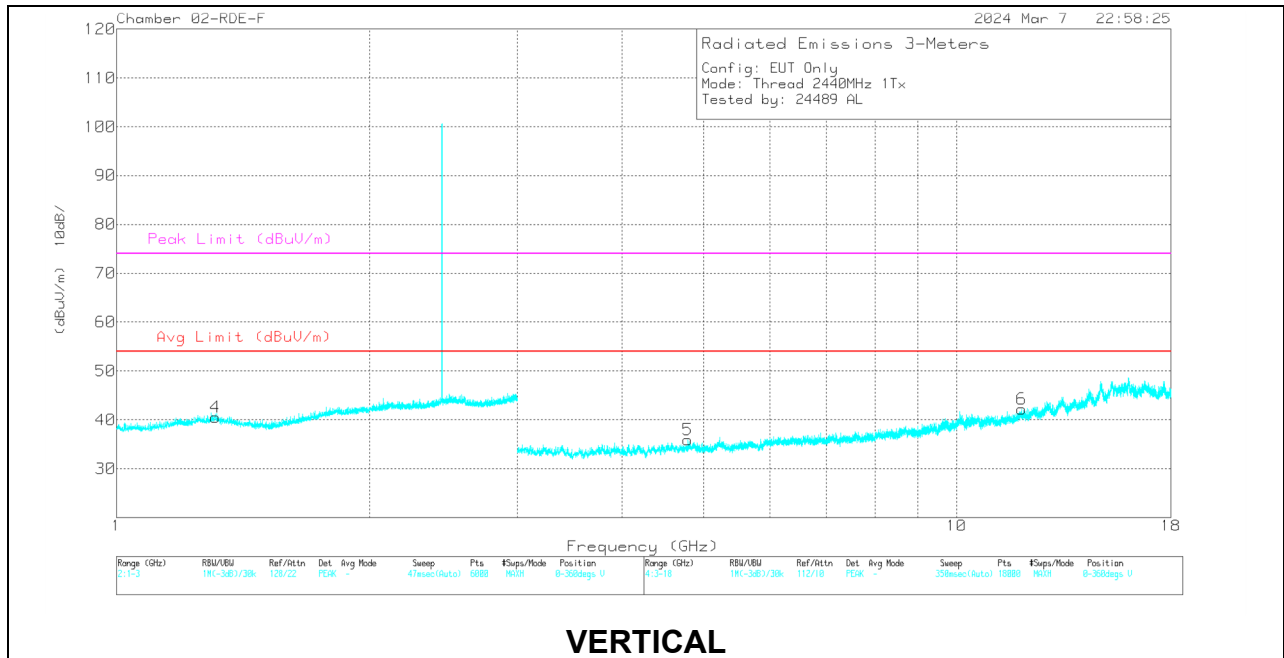
Frequency (GHz)	Meter Reading (dBuV)	Det	206808 ACF (dBm)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.307903	57.93	PKFH	28.9	-38.3	48.53	-	-	74	-25.47	111	265	H
* 1.309535	44.9	VA1T	28.9	-38.3	35.5	54	-18.5	-	-	111	265	H
* 1.312561	58.79	PKFH	28.9	-38.3	49.39	-	-	74	-24.61	187	174	V
* 1.311669	44.9	VA1T	28.9	-38.3	35.5	54	-18.5	-	-	187	174	V
* 4.692821	55.12	PKFH	34.1	-46.1	43.12	-	-	74	-30.88	315	321	H
* 4.692579	41.77	VA1T	34.1	-46.1	29.77	54	-24.23	-	-	315	321	H
* 11.309266	53.43	PKFH	37.8	-42.4	48.83	-	-	74	-25.17	286	245	H
* 11.306545	40.21	VA1T	37.8	-42.5	35.51	54	-18.49	-	-	286	245	H
* 4.663516	54.73	PKFH	34.1	-46.2	42.63	-	-	74	-31.37	277	176	V
* 4.661115	41.62	VA1T	34.1	-46.3	29.42	54	-24.58	-	-	277	176	V
* 11.253637	53.14	PKFH	37.8	-43.1	47.84	-	-	74	-26.16	355	222	V
* 11.251637	40.09	VA1T	37.8	-43.1	34.79	54	-19.21	-	-	355	222	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

MID CHANNEL RESULTS



HORIZONTAL



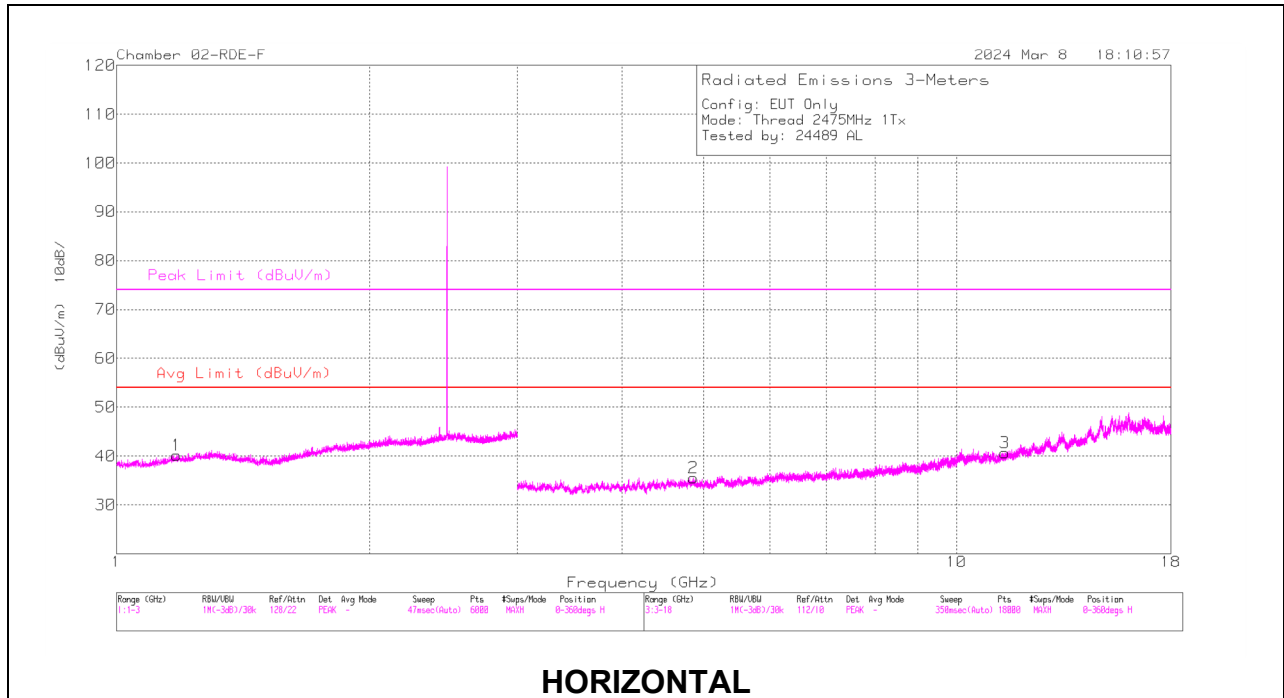
VERTICAL

RADIATED EMISSIONS

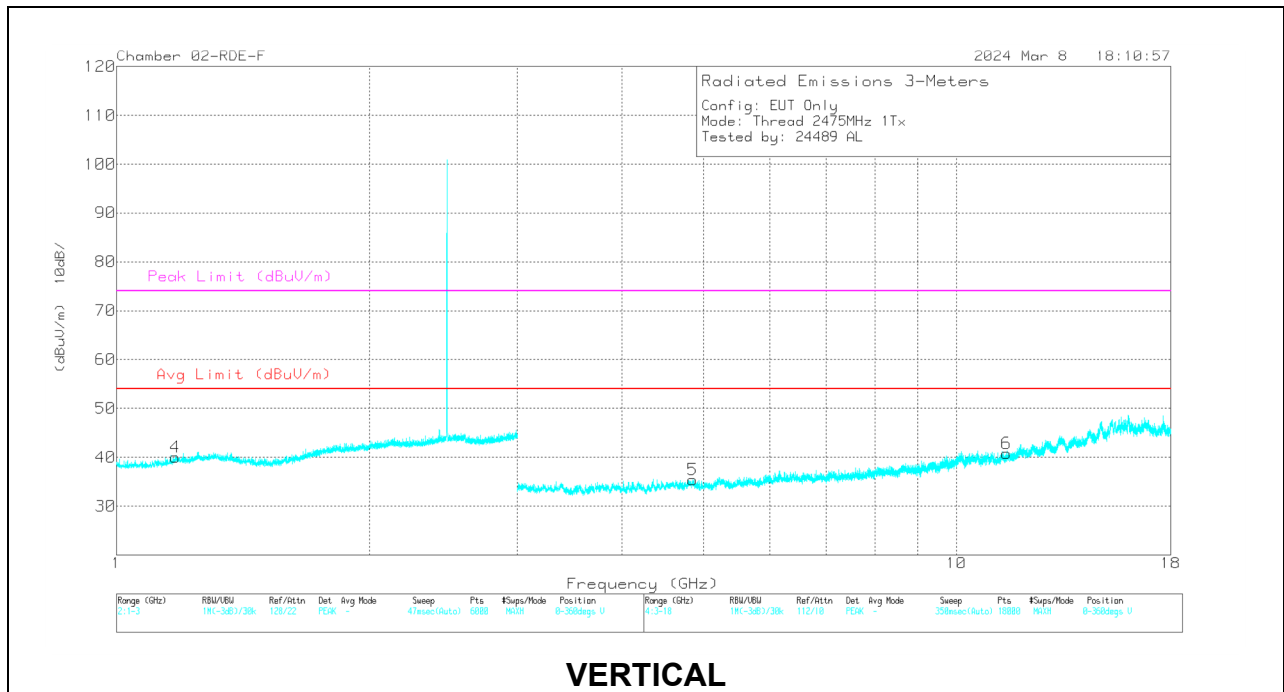
Frequency (GHz)	Meter Reading (dBuV)	Det	206808 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.318052	59.13	PKFH	28.9	-38.3	49.73	-	-	74	-24.27	360	200	H
* 1.314412	44.87	VA1T	28.9	-38.3	35.47	54	-18.53	-	-	360	200	H
* 1.313978	58.11	PKFH	28.9	-38.3	48.71	-	-	74	-25.29	360	101	V
* 1.311018	44.93	VA1T	28.9	-38.3	35.53	54	-18.47	-	-	360	101	V
* 4.770178	55.73	PKFH	34.1	-46.3	43.53	-	-	74	-30.47	360	101	H
* 4.770729	41.85	VA1T	34.1	-46.3	29.65	54	-24.35	-	-	360	101	H
* 12.00398	53.31	PKFH	38.7	-41.9	50.11	-	-	74	-23.89	360	200	H
* 12.004257	40.02	VA1T	38.7	-41.9	36.82	54	-17.18	-	-	360	200	H
* 4.787062	56.44	PKFH	34	-46.1	44.34	-	-	74	-29.66	360	200	V
* 4.790208	42.04	VA1T	34	-46.3	29.74	54	-24.26	-	-	360	200	V
* 11.960986	54.38	PKFH	38.6	-42.1	50.88	-	-	74	-23.12	360	101	V
* 11.958565	40.28	VA1T	38.6	-42.1	36.78	54	-17.22	-	-	360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

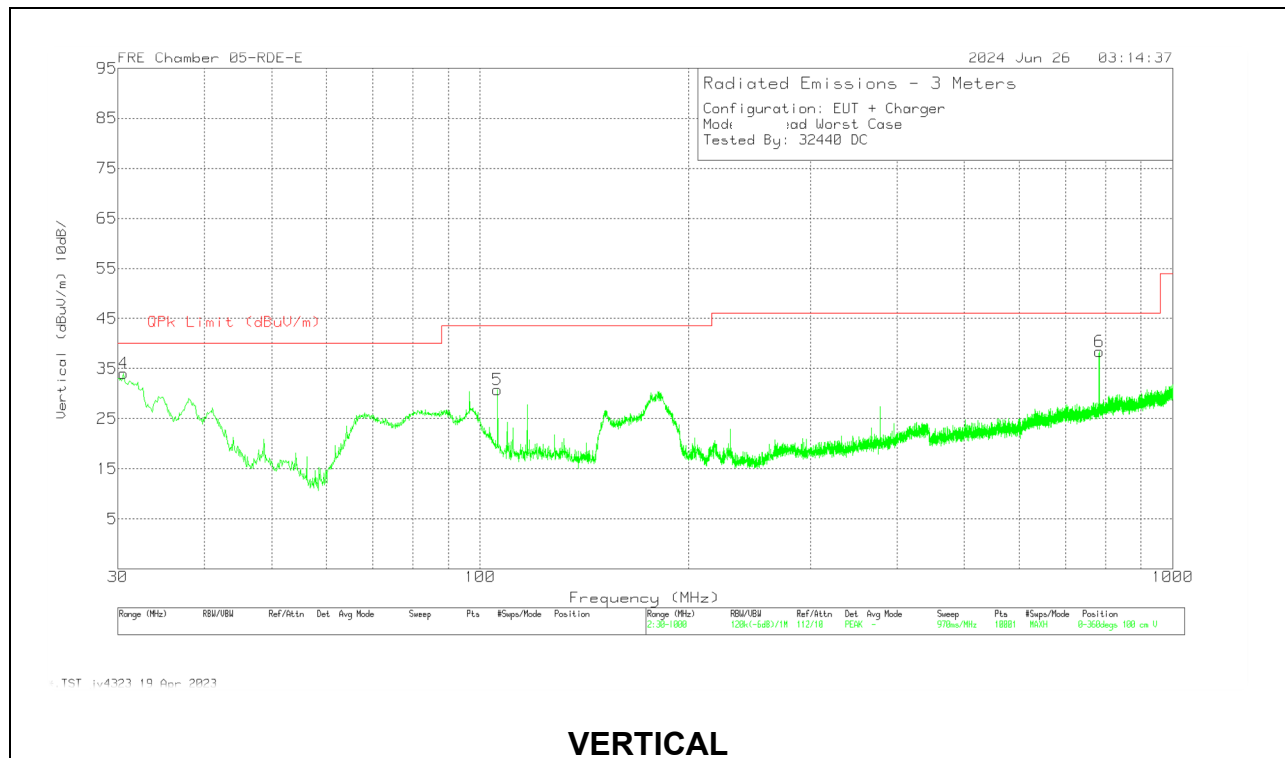
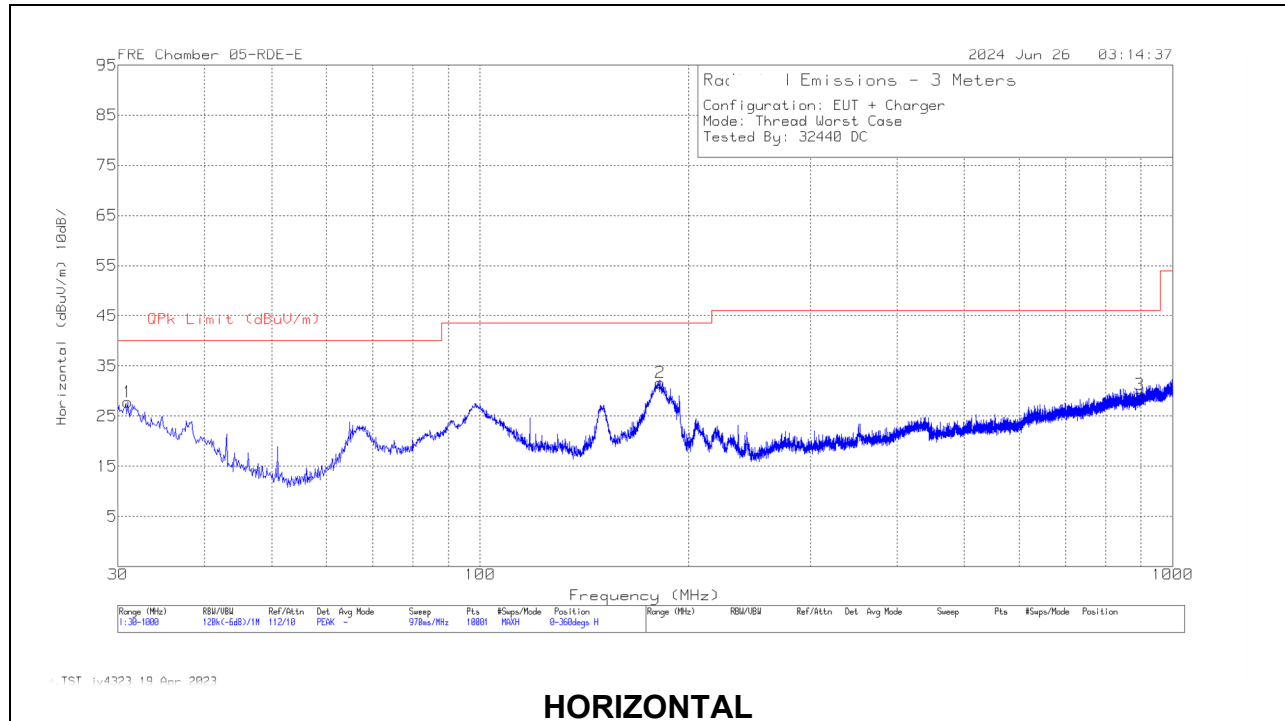
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	206808 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.17896	58.82	PKFH	28.2	-38.5	48.52	-	-	74	-25.48	360	101	H
* 1.179812	45.11	VA1T	28.2	-38.5	34.81	54	-19.19	-	-	360	101	H
* 1.175908	59.17	PKFH	28.2	-38.5	48.87	-	-	74	-25.13	360	101	V
* 1.173074	45.09	VA1T	28.1	-38.5	34.69	54	-19.31	-	-	360	101	V
* 4.859235	55.7	PKFH	34	-45.8	43.9	-	-	74	-30.1	360	101	H
* 4.857551	42.19	VA1T	34	-45.7	30.49	54	-23.51	-	-	360	101	H
* 11.411054	52.95	PKFH	37.8	-42.2	48.55	-	-	74	-25.45	360	101	H
* 11.411307	39.83	VA1T	37.8	-42.2	35.43	54	-18.57	-	-	360	101	H
* 4.857115	56.18	PKFH	34	-45.7	44.48	-	-	74	-29.52	360	101	V
* 4.855078	42.19	VA1T	34	-45.8	30.39	54	-23.61	-	-	360	101	V
* 11.484839	54.4	PKFH	37.9	-42.5	49.8	-	-	74	-24.2	360	200	V
* 11.484878	40.37	VA1T	37.9	-42.5	35.77	54	-18.23	-	-	360	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.2. WORST CASE BELOW 1 GHZ

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)



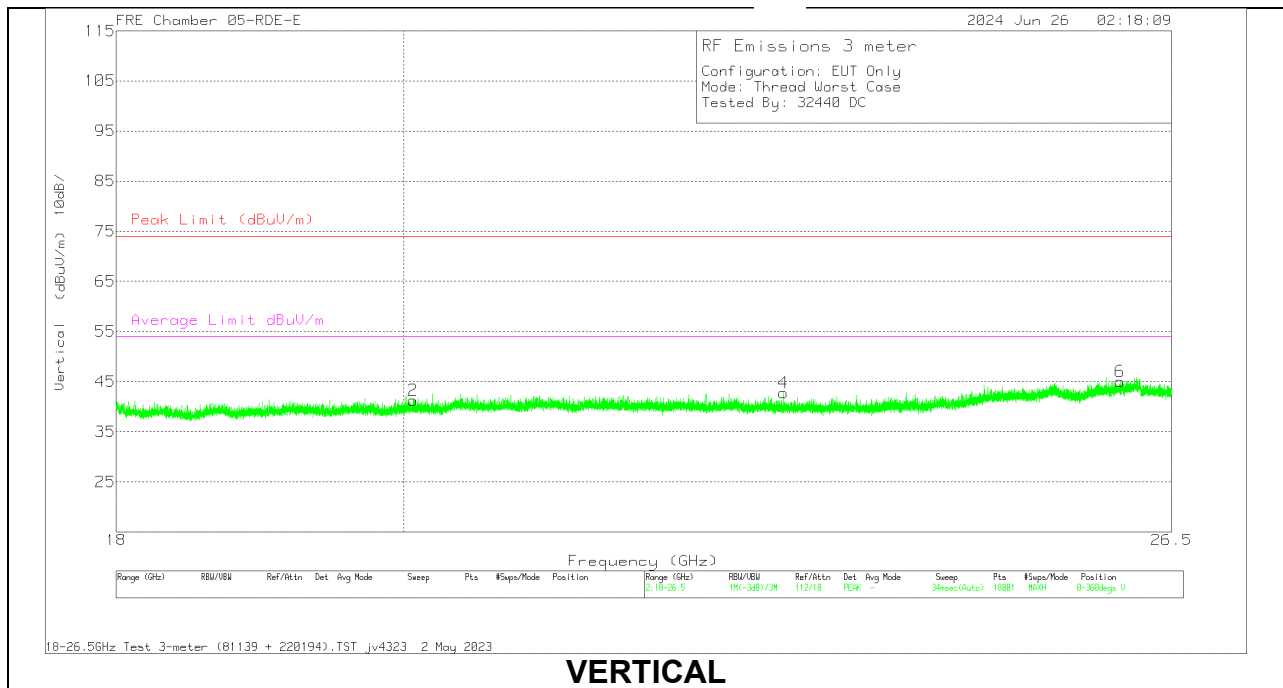
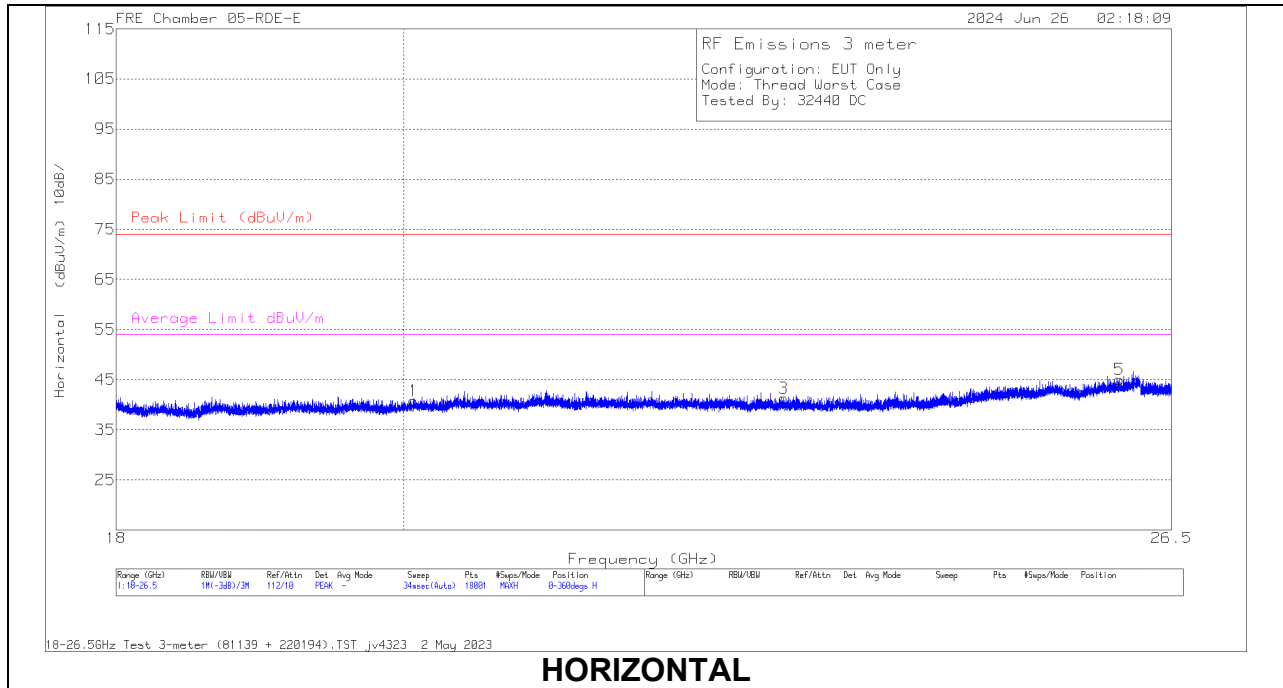
Below 1GHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	203090 ACF (dB/m)	Cbl/AMP	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	30.582	40.08	Pk	25.9	-31.9	34.08	40	-5.92	0-360	100	V
	30.582	35.44	Qp	25.9	-31.9	29.44	40	-10.56	288	100	V
1	30.97	34.16	Pk	25.5	-31.9	27.76	40	-12.24	0-360	199	H
5	105.951	44.2	Pk	17.9	-31.3	30.8	43.52	-12.72	0-360	100	V
2	181.902	45.81	Pk	17	-31.1	31.71	43.52	-11.81	0-360	199	H
6	783.011	40.68	Pk	26.8	-29.1	38.38	46.02	-7.64	0-360	199	V
3	894.658	29.82	Pk	27.8	-28.3	29.32	46.02	-16.7	0-360	398	H

Pk - Peak detector
 Qp - Quasi-Peak detector

10.3. WORST CASE 18-26 GHZ

SPURIOUS EMISSIONS 18-26 GHz (WORST-CASE CONFIGURATION)



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	81139 ACF (dB/m)	Amp/Cbl (dB)	CBL (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Average Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 20.076121	47.26	Pk	33.2	-60.7	23.1	42.86	74	-31.14	54	-11.14	162	185	H
3	* 22.988662	46.09	Pk	33.6	-62.5	24.9	42.09	74	-31.91	54	-11.91	318	352	H
2	* 20.070525	46.91	Pk	33.2	-60.8	23.1	42.41	74	-31.59	54	-11.59	348	117	V
4	* 22.990594	46.09	Pk	33.6	-62.5	24.9	42.09	74	-31.91	54	-11.91	244	166	V
5	25.997874	45.42	Pk	34.4	-61.2	26.6	45.22	74	-28.78	54	-8.78	324	108	H
6	26.006148	46.59	Pk	34.4	-61.2	26.6	46.39	74	-27.61	54	-7.61	323	180	V

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

Pk - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

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.

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.

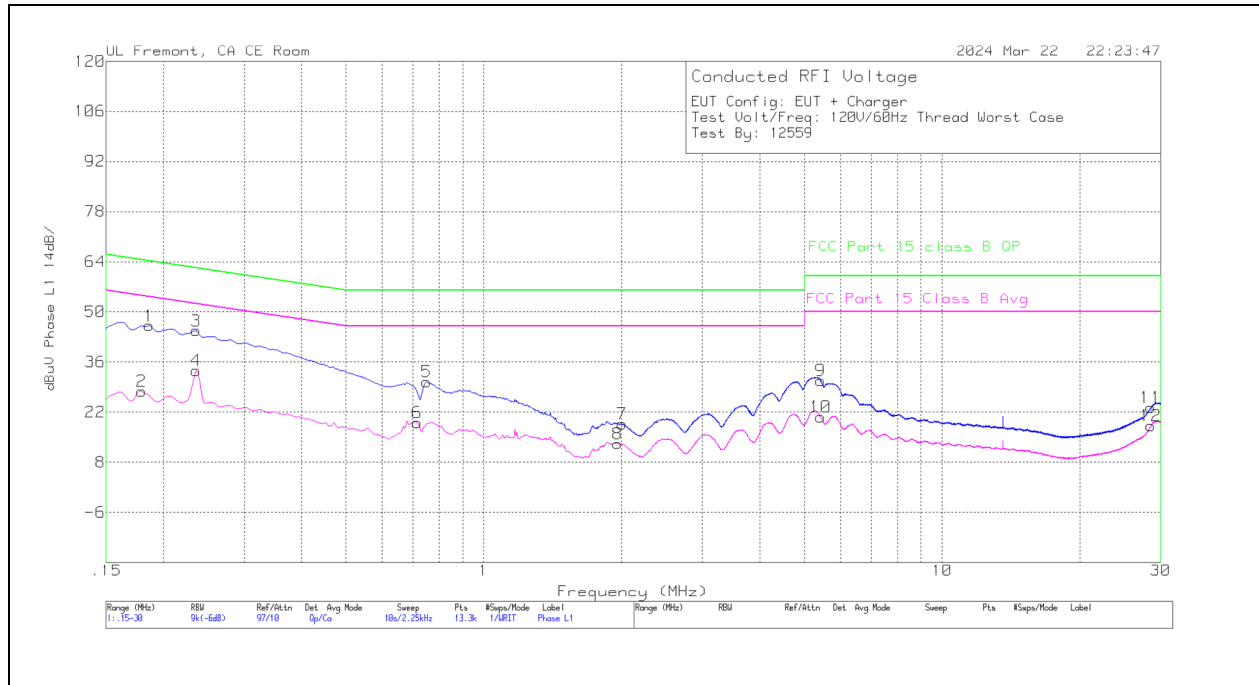
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

11.1. AC Power Line With AC/DC Adapter

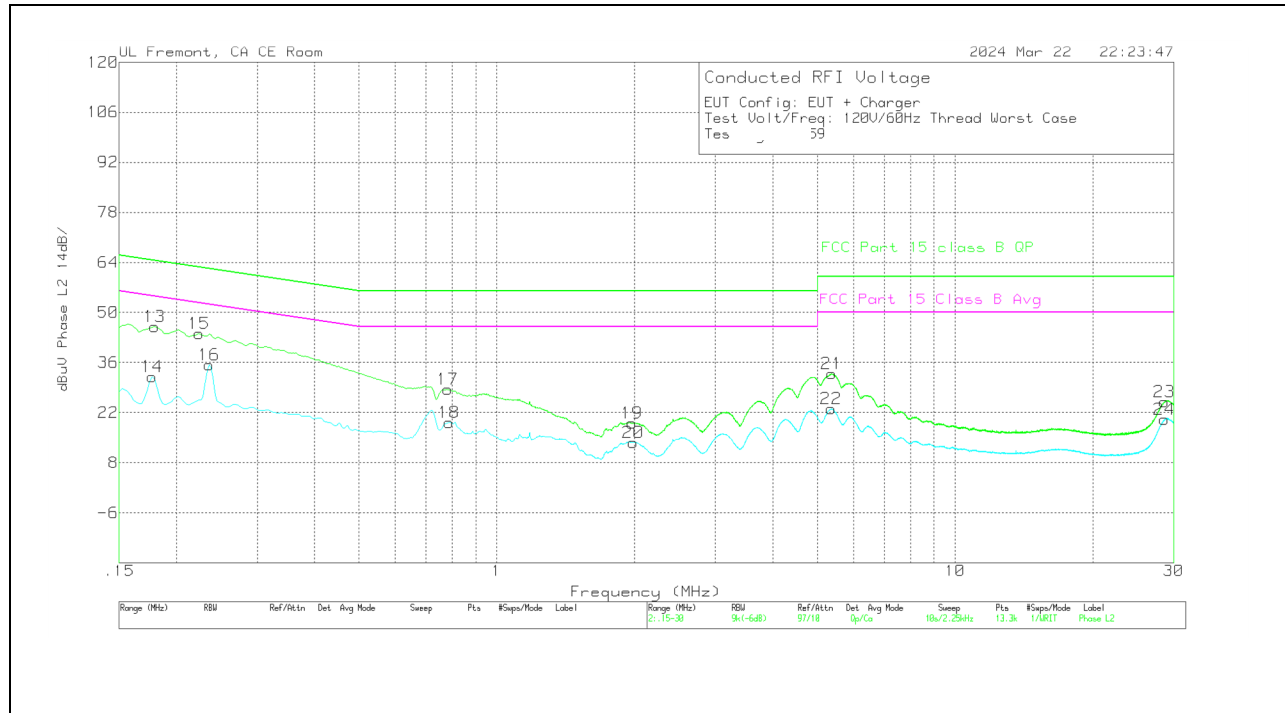
LINE 1 RESULTS



Range 1: Phase L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Cbl (dB)	LISN (dB)	Trns Limiter (dB)	10 dB Pad	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
2	.1793	8.28	Ca	.1	.1	9.4	10	27.88	54.52	-26.64	-	-
4	.2355	14.2	Ca	0	0	9.4	10	33.6	52.25	-18.65	-	-
6	.717	-36	Ca	.1	0	9.3	10	19.04	46	-26.96	-	-
8	1.9624	-6.21	Ca	.1	0	9.3	10	13.19	46	-32.81	-	-
10	5.4285	1.23	Ca	.1	0	9.3	10	20.63	50	-29.37	-	-
12	28.5248	-1.91	Ca	.3	.3	9.5	10	18.19	50	-31.81	-	-
1	.186	26.54	Qp	.1	.1	9.4	10	46.14	-	-	64.21	-18.07
3	.2355	25.34	Qp	0	0	9.4	10	44.74	-	-	62.25	-17.51
5	.7508	10.96	Qp	.1	0	9.4	10	30.46	-	-	56	-25.54
7	2.0018	-82	Qp	.1	0	9.4	10	18.68	-	-	56	-37.32
9	5.4285	11.36	Qp	.1	0	9.3	10	30.76	-	-	60	-29.24
11	28.5248	3.18	Qp	.3	.3	9.5	10	23.28	-	-	60	-36.72

Qp - Quasi-Peak detector
 Ca - CISPR average detection

LINE 2 RESULTS

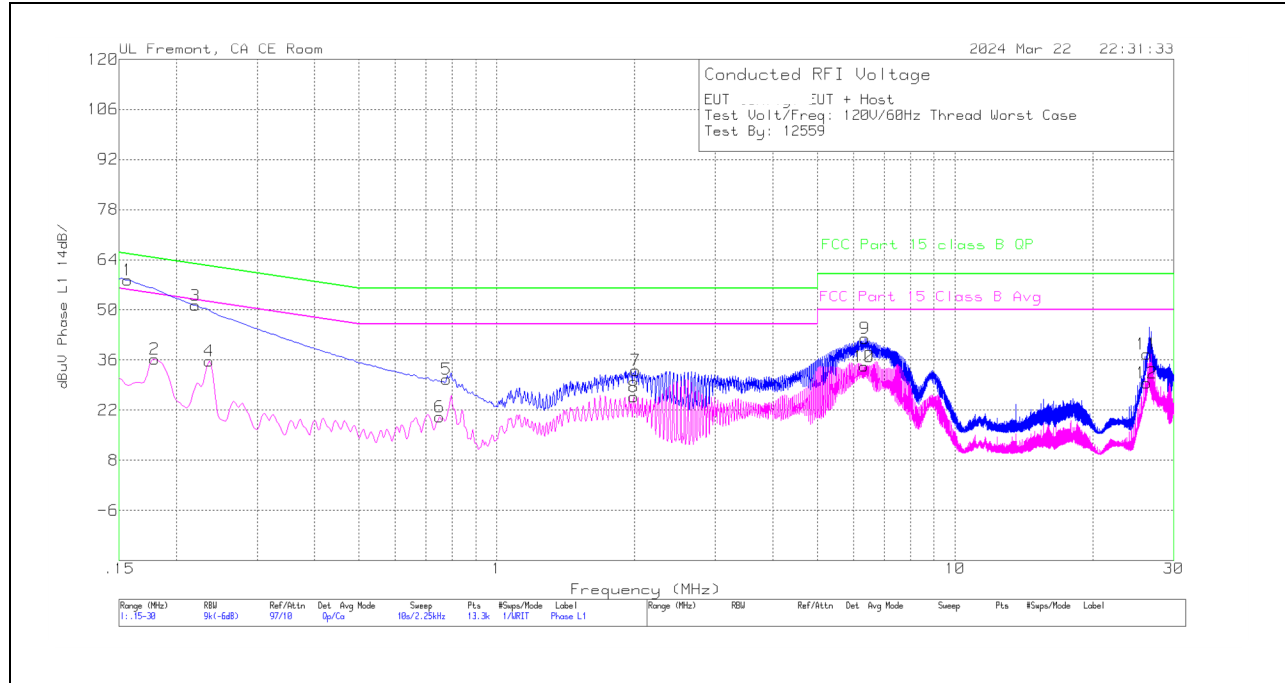


Range 2: Phase L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Cbl (dB)	LISN (dB)	Trns Limiter (dB)	10 dB Pad	Corrected Reading dBuV	FCC Part 15 Class B Avg dBuV	Margin (dB)	FCC Part 15 class B QP dBuV	Margin (dB)
14	.177	12.53	Ca	.1	0	9.4	10	32.03	54.63	-22.6	-	-
16	.2355	15.98	Ca	0	0	9.4	10	35.38	52.25	-16.87	-	-
18	.7868	-.02	Ca	0	0	9.3	10	19.28	46	-26.72	-	-
20	1.9826	-5.8	Ca	.1	0	9.4	10	13.7	46	-32.3	-	-
22	5.3678	3.58	Ca	.1	0	9.4	10	23.08	50	-26.92	-	-
24	28.6305	.11	Ca	.3	.2	9.5	10	20.11	50	-29.89	-	-
13	.1793	26.61	Qp	.1	0	9.4	10	46.11	-	-	64.52	-18.41
15	.2243	24.58	Qp	.1	0	9.4	10	44.08	-	-	62.66	-18.58
17	.7823	9.21	Qp	0	0	9.3	10	28.51	-	-	56	-27.49
19	1.9725	-.29	Qp	.1	0	9.3	10	19.11	-	-	56	-36.89
21	5.3813	13.25	Qp	.2	0	9.4	10	32.85	-	-	60	-27.15
23	28.6103	5.1	Qp	.3	.2	9.4	10	25	-	-	60	-35

Qp - Quasi-Peak detector
 Ca - CISPR average detection

11.2. AC Power Line with Laptop

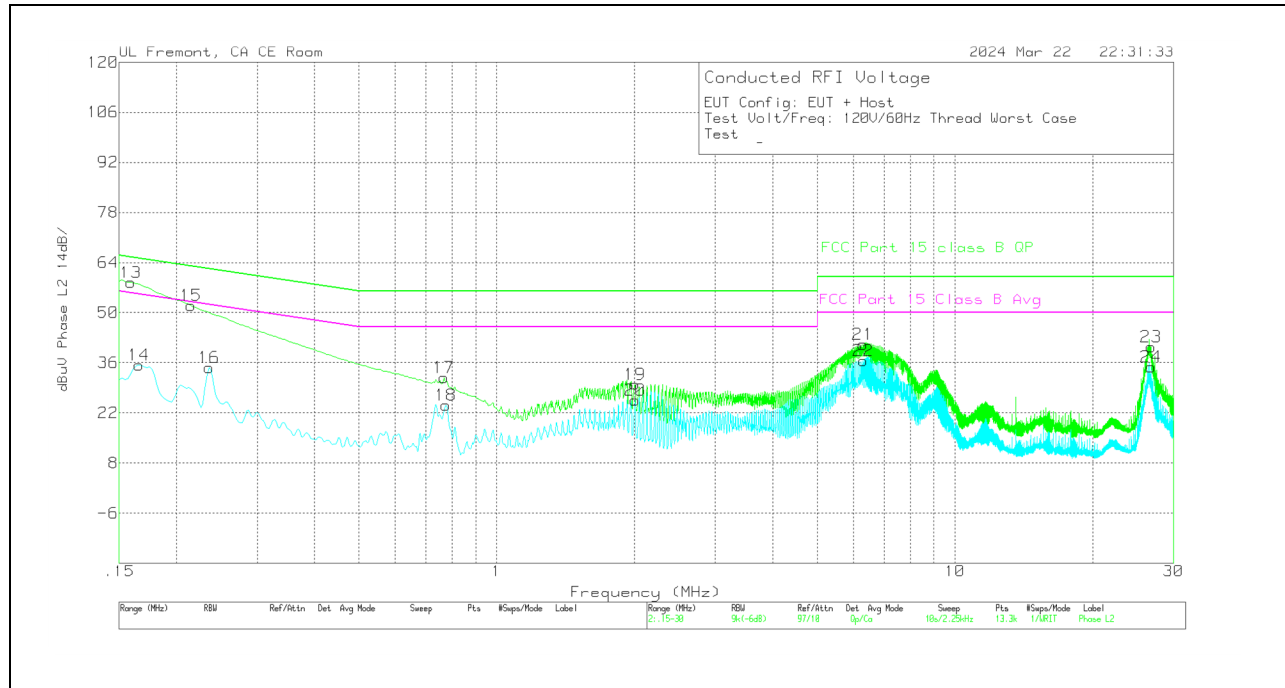
LINE 1 RESULTS



Range 1: Phase L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Cbl (dB)	LISN (dB)	Trns Limiter (dB)	10 dB Pad	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
2	.1793	16.7	Ca	.1	.1	9.4	10	36.3	54.52	-18.22	-	-
4	.2355	16.37	Ca	0	0	9.4	10	35.77	52.25	-16.48	-	-
6	.7508	.66	Ca	.1	0	9.4	10	20.16	46	-25.84	-	-
8	1.9905	6.25	Ca	.1	0	9.4	10	25.75	46	-20.25	-	-
10	6.3285	14.62	Ca	.2	0	9.4	10	34.22	50	-15.78	-	-
12	26.2028	9.73	Ca	.3	.2	9.4	10	29.63	50	-20.37	-	-
1	.1568	38.73	Qp	0	.1	9.56	10	58.33	-	-	65.63	-7.3
3	.2198	31.73	Qp	.1	0	9.4	10	51.23	-	-	62.83	-11.6
5	.7778	11.26	Qp	.1	0	9.3	10	30.66	-	-	56	-25.34
7	2.0085	13.59	Qp	.1	0	9.4	10	33.09	-	-	56	-22.91
9	6.351	22.26	Qp	.2	0	9.5	10	41.96	-	-	60	-18.04
11	26.196	17.75	Qp	.3	.2	9.4	10	37.65	-	-	60	-22.35

Qp - Quasi-Peak detector
 Ca - CISPR average detection

LINE 2 RESULTS



Range 2: Phase L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Cbl (dB)	LISN (dB)	Trns Limiter (dB)	10 dB Pad	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
14	.1658	15.81	Ca	0	.1	9.5	10	35.41	55.17	-19.76	-	-
16	.2355	15.25	Ca	0	0	9.4	10	34.65	52.25	-17.6	-	-
18	.7755	4.83	Ca	0	0	9.3	10	24.13	46	-21.87	-	-
20	2.0063	6.04	Ca	.1	0	9.4	10	25.54	46	-20.46	-	-
22	6.3083	17.11	Ca	.2	0	9.3	10	36.61	50	-13.39	-	-
24	26.763	15	Ca	.3	.2	9.4	10	34.9	50	-15.1	-	-
13	.159	38.82	Qp	0	.1	9.5	10	58.42	-	-	65.52	-7.1
15	.2153	32.57	Qp	.1	0	9.4	10	52.07	-	-	63	-10.93
17	.7665	12.51	Qp	0	0	9.4	10	31.91	-	-	56	-24.09
19	2.0063	10.51	Qp	.1	0	9.4	10	30.01	-	-	56	-25.99
21	6.306	21.61	Qp	.2	0	9.3	10	41.11	-	-	60	-18.89
23	26.7653	20.52	Qp	.3	.2	9.4	10	40.42	-	-	60	-19.58

Qp - Quasi-Peak detector
 Ca - CISPR average detection

12. SETUP PHOTOS

Please refer to setup photos 14982484-EP1V1

END OF TEST REPORT