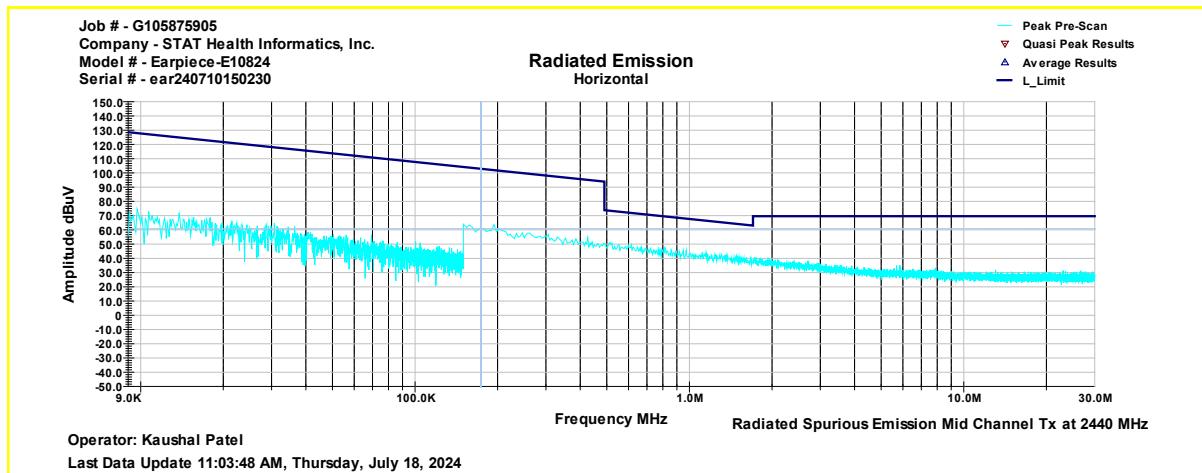
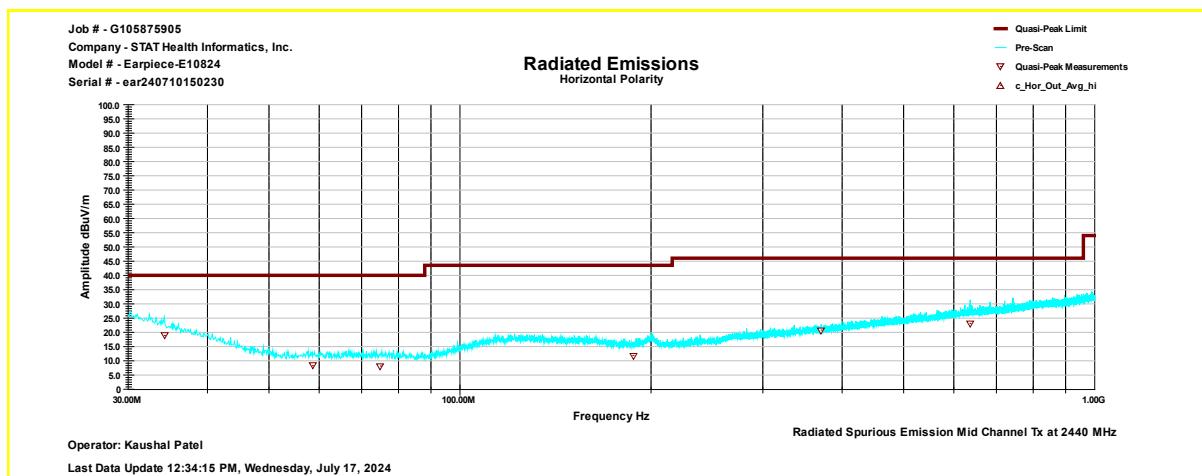


Radiated Spurious Emissions 9kHz - 30 MHz Horizontal Antenna Polarization



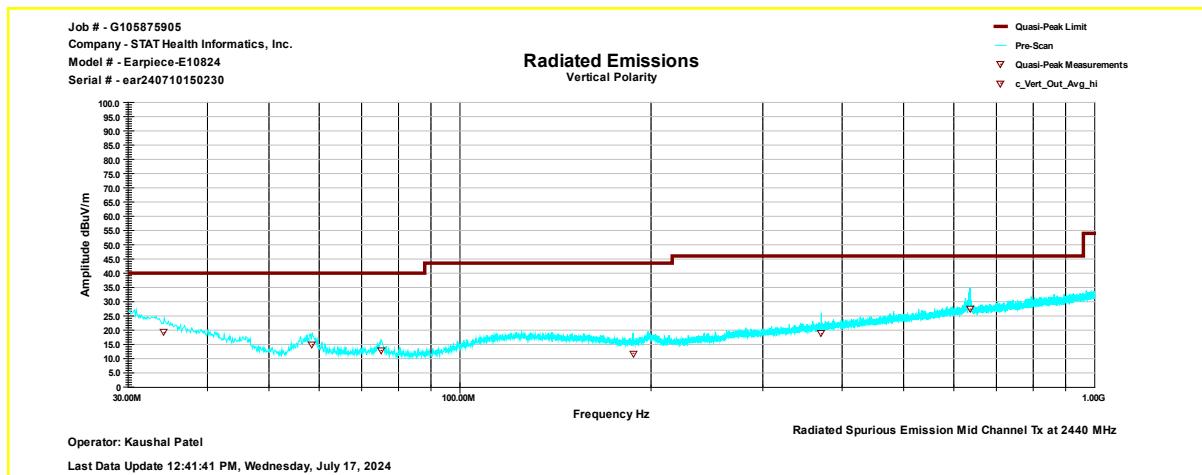
Radiated Spurious Emissions 30 MHz - 1000 MHz Horizontal Antenna Polarization



Frequency (MHz)	QPeak@ 3m (dB μ V/m)	Lim. QPeak @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
34.21	18.8	40	-21.2	125	64	Horizontal	-11
58.55	8.2	40	-31.8	206	305	Horizontal	-22.1
74.95	8.2	40	-31.8	250	307	Horizontal	-21.8
187.25	11.9	43.5	-31.7	340	85	Horizontal	-18.2
370.85	20.8	46	-25.2	149	22	Horizontal	-13
636.15	23.1	46	-22.9	190	45	Horizontal	-7

Note: Correction = AF + CF - Preamp

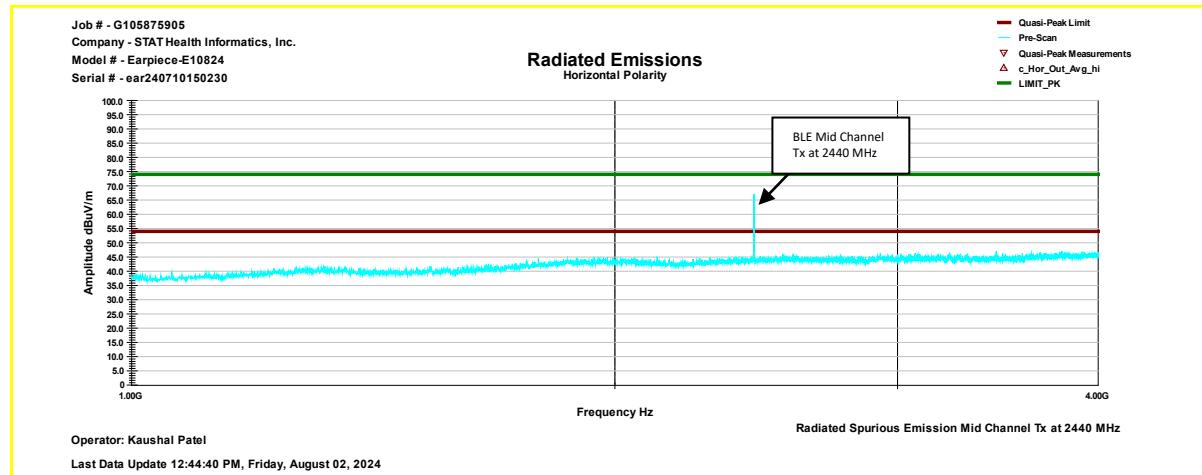
Radiated Spurious Emissions 30 MHz - 1000 MHz Vertical Antenna Polarization



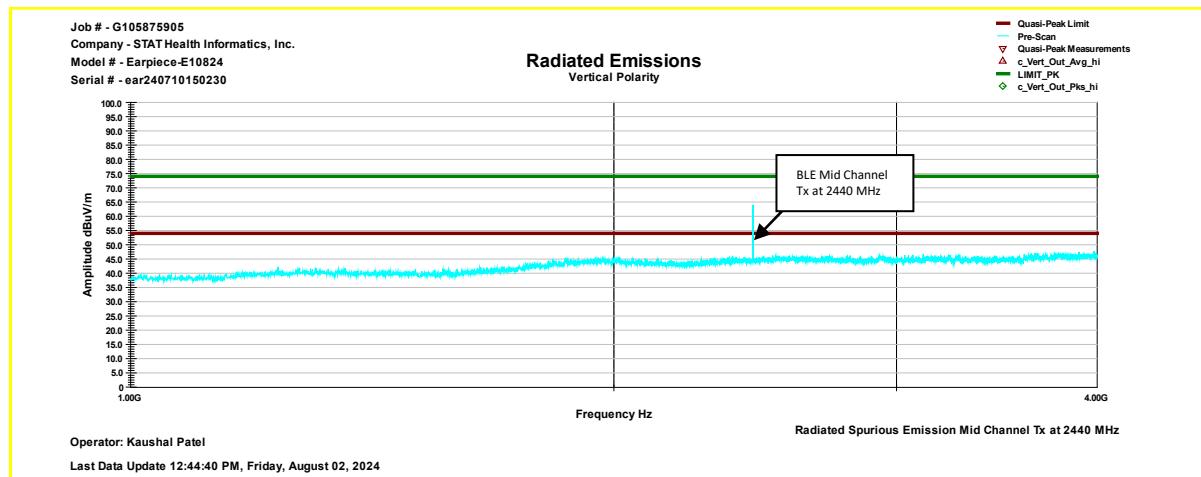
Frequency (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
34.15	19.2	40	-20.8	158	69	Vertical	-11
58.5	14.9	40	-25.1	149	284	Vertical	-22.1
75.05	12.9	40	-27.1	350	75	Vertical	-21.7
187.29	11.9	43.5	-31.7	324	114	Vertical	-18.2
370.95	18.8	46	-27.3	324	35	Vertical	-13
636.16	27.4	46	-18.7	207	64	Vertical	-7

Note: Correction = AF + CF - Preamp

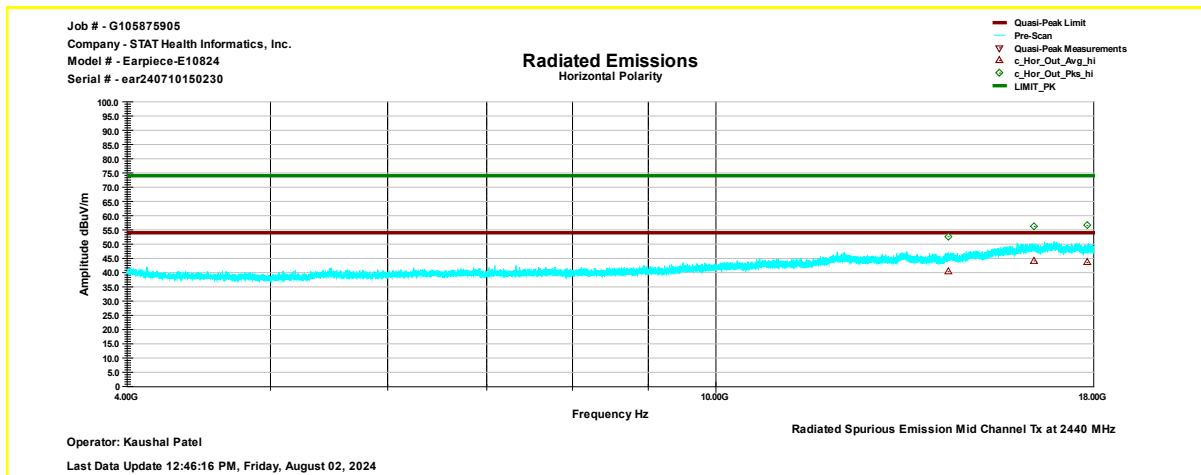
Radiated Spurious Emissions 1000 MHz - 4000 MHz Horizontal Antenna Polarization vs Avg & Peak Limit



Radiated Spurious Emissions 1000 MHz - 4000 MHz Vertical Antenna Polarization vs Avg & Peak Limit



Radiated Spurious Emissions 4000 MHz - 18000 MHz Horizontal Antenna Polarization vs Avg & Peak Limit



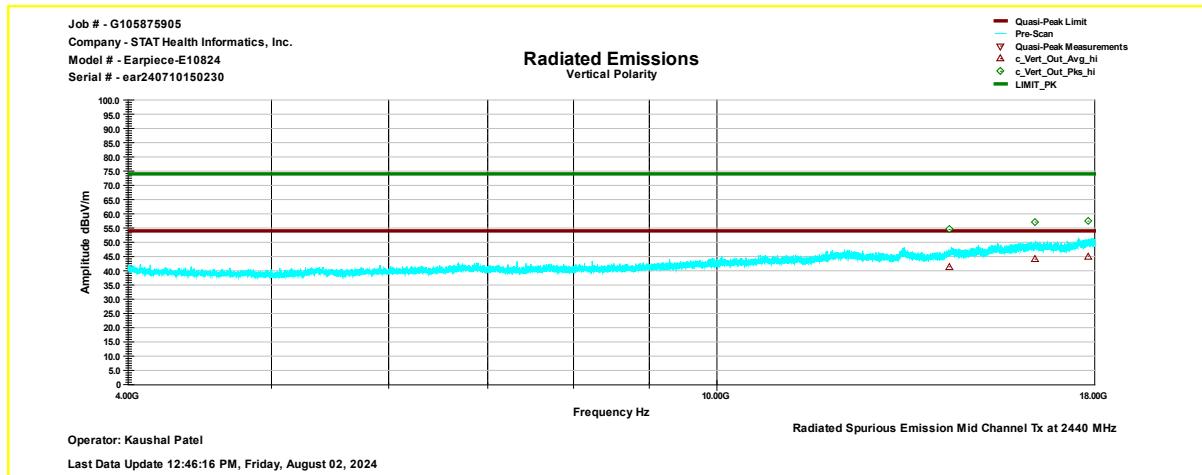
Note: Measurements made from 4 GHz to 18GHz had a 2.4-2.5GHz notch filter in place

Frequency (MHz)	Pk@ 3m (dB μ V/m)	Lim. Pk @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
14350.55	52.6	74	-21.4	253	346	Horizontal	10.7
16407.45	56.2	74	-17.8	100	29	Horizontal	15.8
17811.55	56.5	74	-17.5	244	39	Horizontal	18.3

Note: Correction = AF + CF - Preamp

Frequency (MHz)	Avg@ 3m (dB μ V/m)	Lim. Avg @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
14350.55	40.3	54	-13.7	253	346	Horizontal	10.7
16407.45	44.1	54	-9.9	100	29	Horizontal	15.8
17811.55	43.5	54	-10.5	244	39	Horizontal	18.3

Note: Correction = AF + CF - Preamp

Radiated Spurious Emissions 4000 MHz - 18000 MHz Vertical Antenna Polarization vs Avg & Peak Limit


Note: Measurements made from 4 GHz to 18GHz had a 2.4-2.5GHz notch filter in place

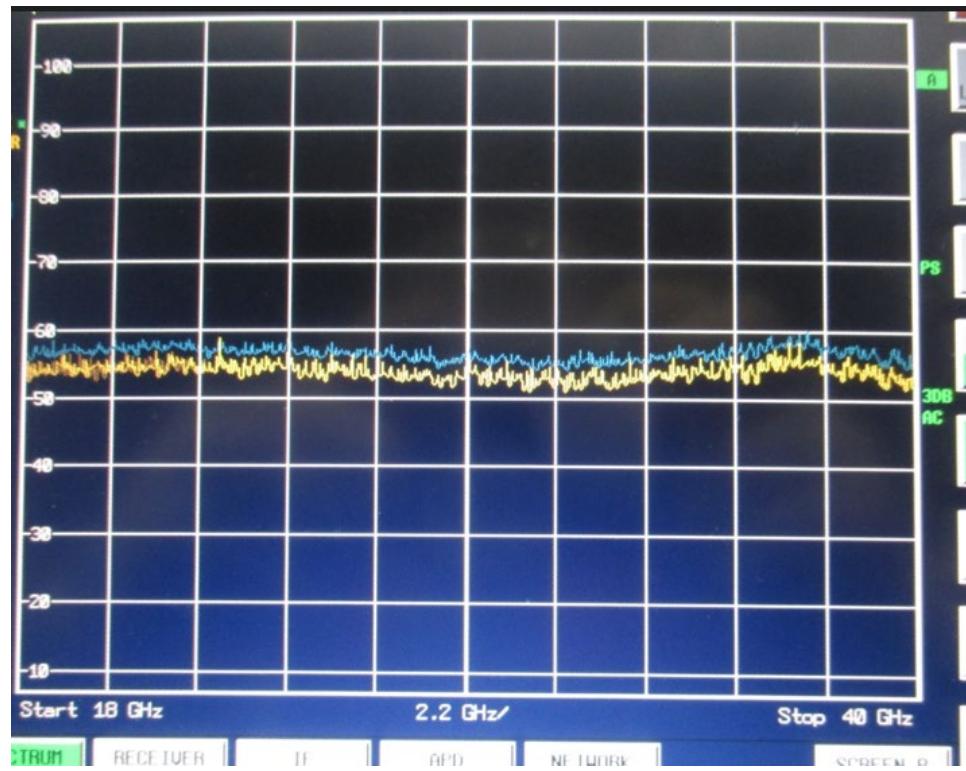
Frequency (MHz)	Pk@ 3m (dB μ V/m)	Lim. Pk @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
14350.45	54.5	74	-19.5	295	72	Vertical	2.89
16407.55	57.1	74	-16.9	168	331	Vertical	5.30
17811.45	57.4	74	-16.6	194	161	Vertical	7.78

Note: Correction = AF + CF - Preamp

Frequency (MHz)	Avg@ 3m (dB μ V/m)	Lim. Avg @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
14350.45	41.4	54	-12.6	295	72	Vertical	2.89
16407.55	44	54	-9.9	168	331	Vertical	5.30
17811.45	45.1	54	-8.9	194	161	Vertical	7.78

Note: Correction = AF + CF - Preamp

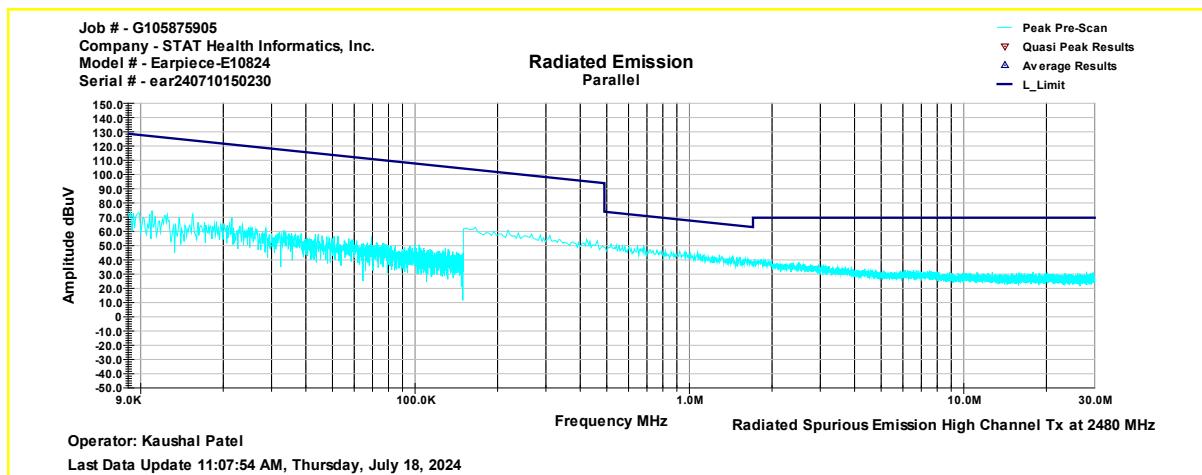
Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz



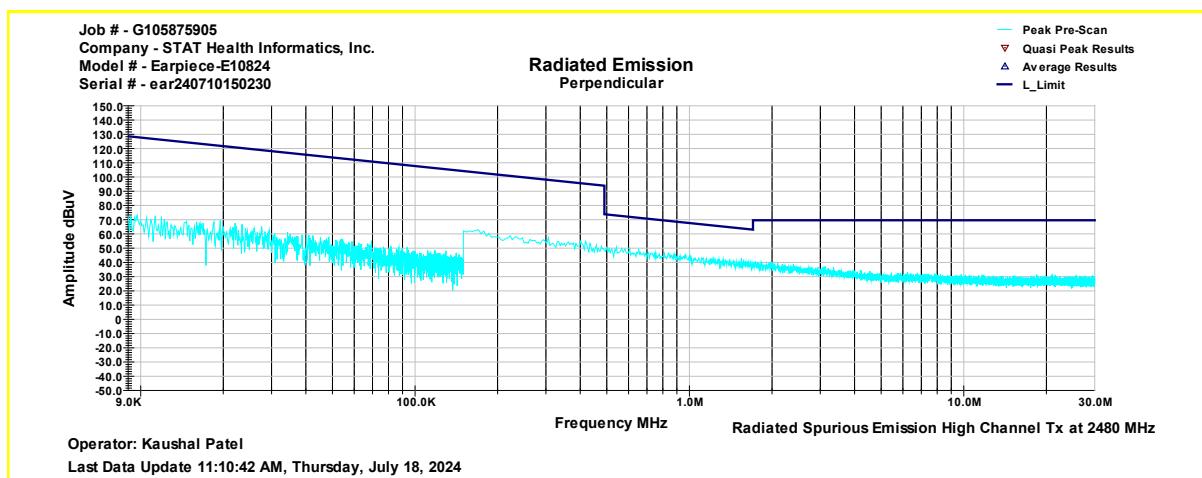
Note: FS@3m = RA + Correction
Correction = AF + CF - Preamp

Test Results: 15.209 Radiated Spurious Emissions High Channel, Tx at 2480MHz

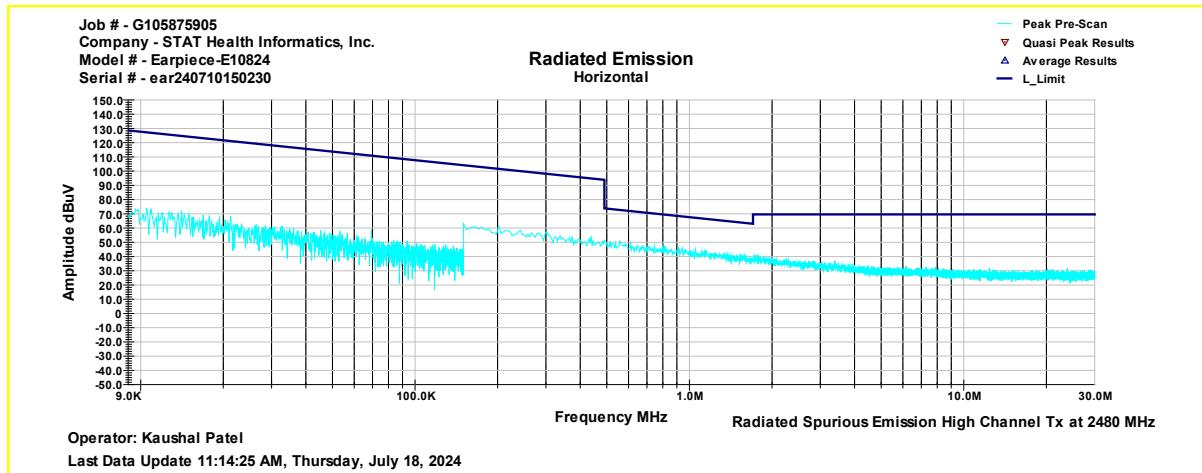
Radiated Spurious Emissions 9kHz - 30 MHz Parallel Antenna Polarization



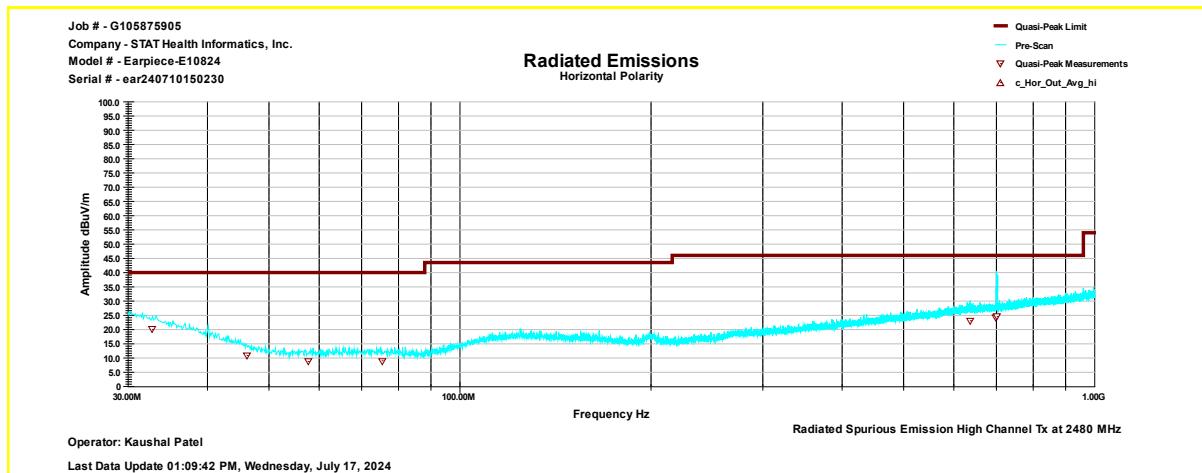
Radiated Spurious Emissions 9kHz - 30 MHz Perpendicular Antenna Polarization



Radiated Spurious Emissions 9kHz - 30 MHz Horizontal Antenna Polarization



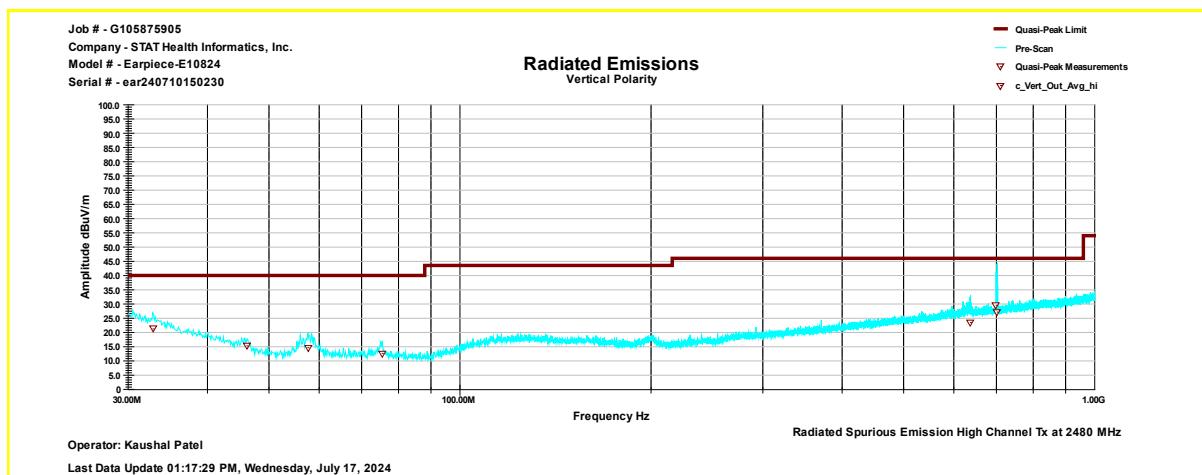
Radiated Spurious Emissions 30 MHz - 1000 MHz Horizontal Antenna Polarization



Frequency (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
32.75	20	40	-20	149	129	Horizontal	-9.9
46.21	10.9	40	-29.1	224	42	Horizontal	-19.4
57.65	8.7	40	-31.3	125	293	Horizontal	-22.2
75.41	9	40	-31	350	140	Horizontal	-21.7
637.15	23.1	46	-22.9	150	276	Horizontal	-7
699.41	24.1	46	-21.9	149	22	Horizontal	-6.2
702.31	24.6	46	-21.5	174	194	Horizontal	-6.3

Note: Correction = AF + CF - Preamp

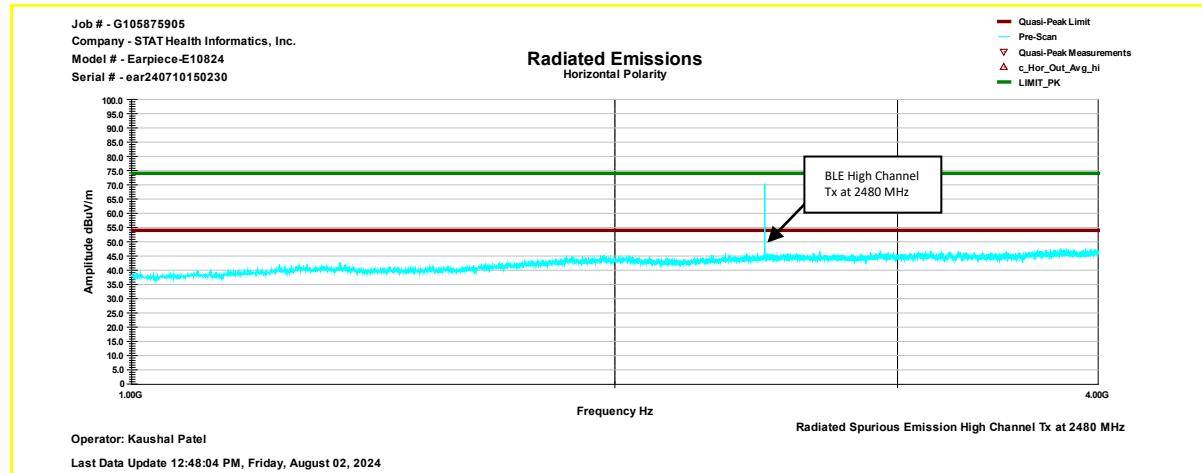
Radiated Spurious Emissions 30 MHz - 1000 MHz Vertical Antenna Polarization



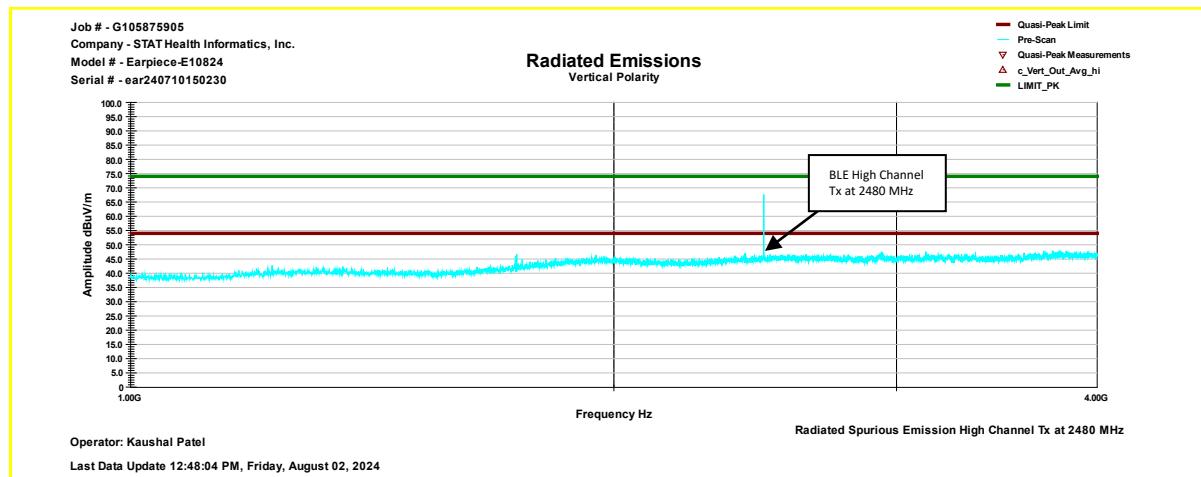
Frequency (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
32.83	21.2	40	-18.8	122	236	Vertical	-10
46.17	15.3	40	-24.7	224	242	Vertical	-19.4
57.57	14.6	40	-25.4	149	297	Vertical	-22.2
75.41	12.6	40	-27.4	349	195	Vertical	-21.7
637.15	23.4	46	-22.6	150	56	Vertical	-7
699.39	29.5	46	-16.5	240	62	Vertical	-6.2
702.26	27.1	46	-18.9	250	40	Vertical	-6.3

Note: Correction = AF + CF - Preamp

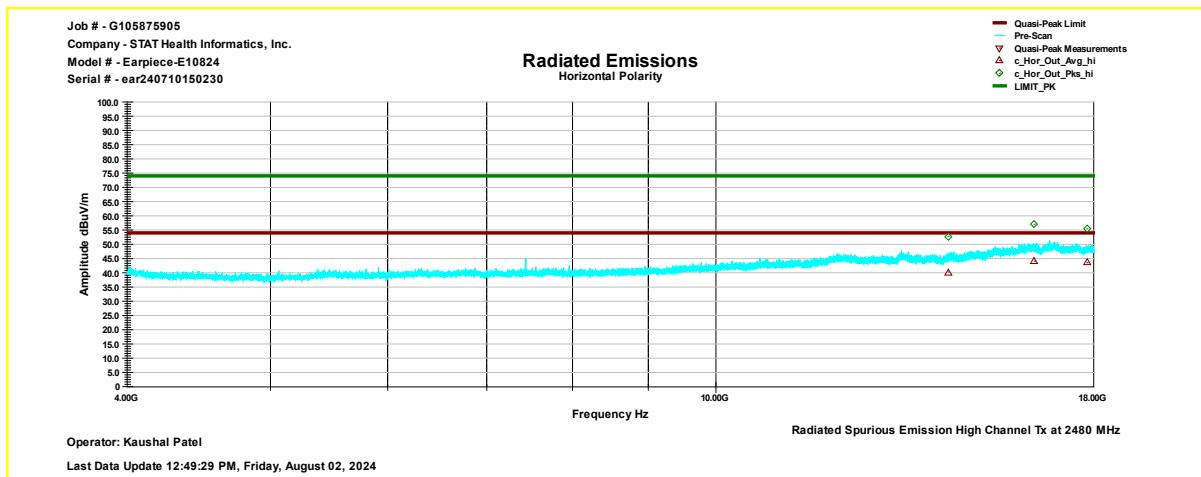
Radiated Spurious Emissions 1000 MHz - 4000 MHz Horizontal Antenna Polarization vs Avg & Peak Limit



Radiated Spurious Emissions 1000 MHz - 4000 MHz Vertical Antenna Polarization vs Avg & Peak Limit



Radiated Spurious Emissions 4000 MHz - 18000 MHz Horizontal Antenna Polarization vs Avg & Peak Limit



Note: Measurements made from 4 GHz to 18GHz had a 2.4-2.5GHz notch filter in place

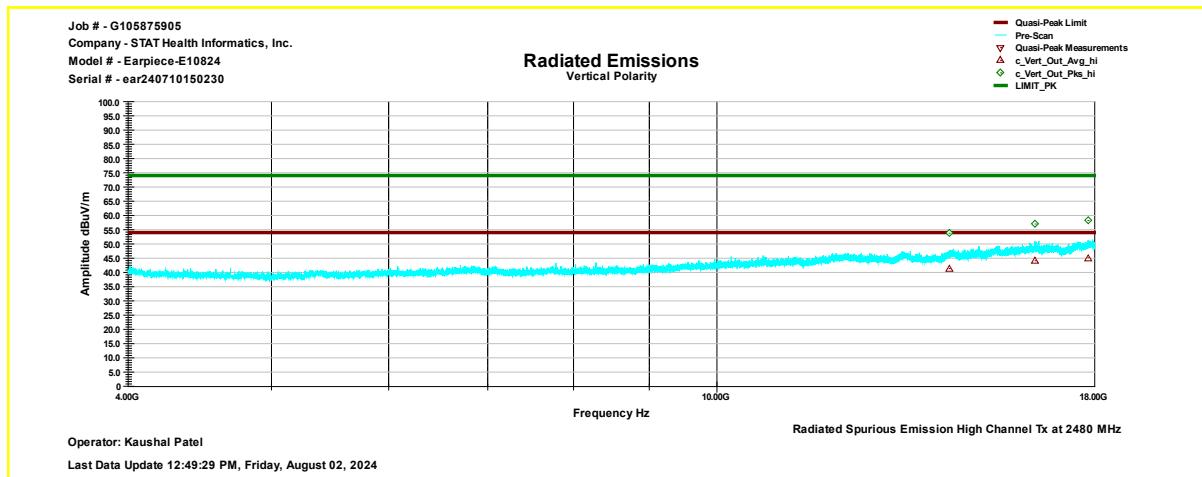
Frequency (MHz)	Pk@ 3m (dB μ V/m)	Lim. Pk @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
14350.45	52.8	74	-21.2	261	212	Horizontal	10.7
16407.55	57	74	-17	304	85	Horizontal	15.8
17811.55	55.4	74	-18.6	184	188	Horizontal	18.3

Note: Correction = AF + CF - Preamp

Frequency (MHz)	Avg@ 3m (dB μ V/m)	Lim. Avg @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
14350.45	40.2	54	-13.7	261	212	Horizontal	10.7
16407.55	44	54	-9.9	304	85	Horizontal	15.8
17811.55	43.5	54	-10.4	184	188	Horizontal	18.3

Note: Correction = AF + CF - Preamp

Radiated Spurious Emissions 4000 MHz - 18000 MHz Vertical Antenna Polarization vs Avg & Peak Limit



Note: Measurements made from 4 GHz to 18GHz had a 2.4-2.5GHz notch filter in place

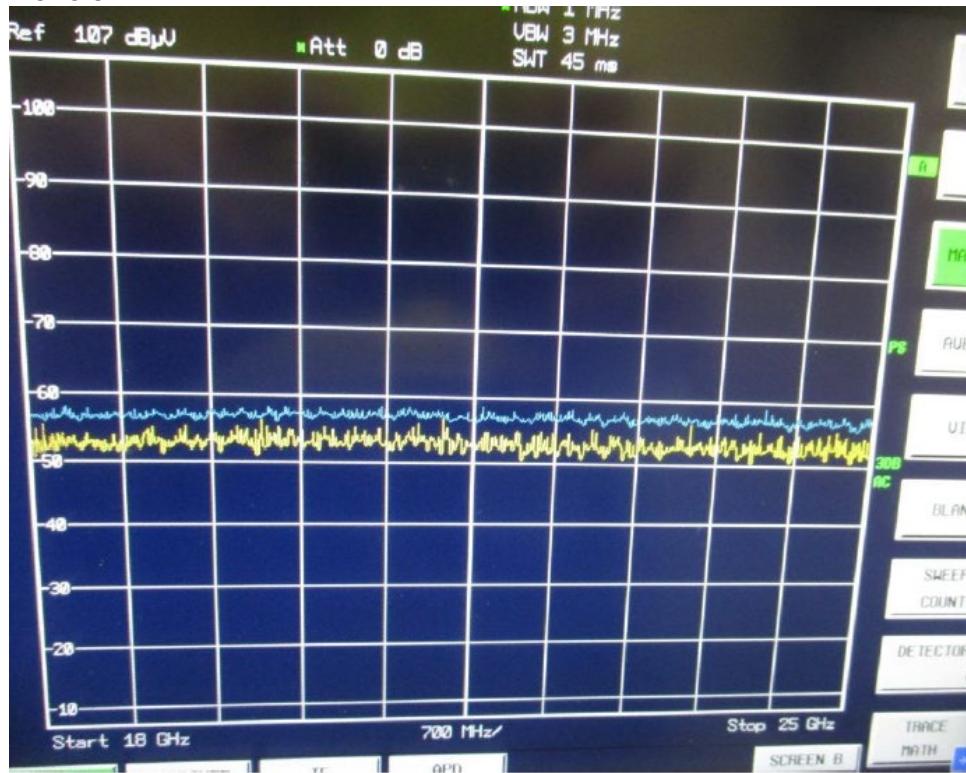
Frequency (MHz)	Pk@ 3m (dB μ V/m)	Lim. Pk @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
14350.45	53.7	74	-20.3	193	178	Vertical	2.89
16407.55	57	74	-17	400	309	Vertical	5.30
17811.45	58.2	74	-15.8	399	256	Vertical	7.78

Note: Correction = AF + CF - Preamp

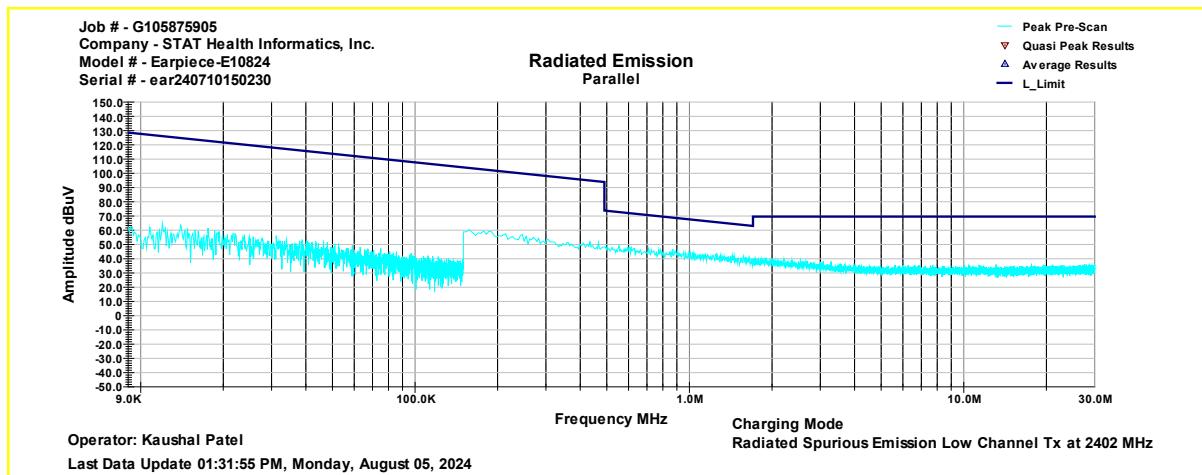
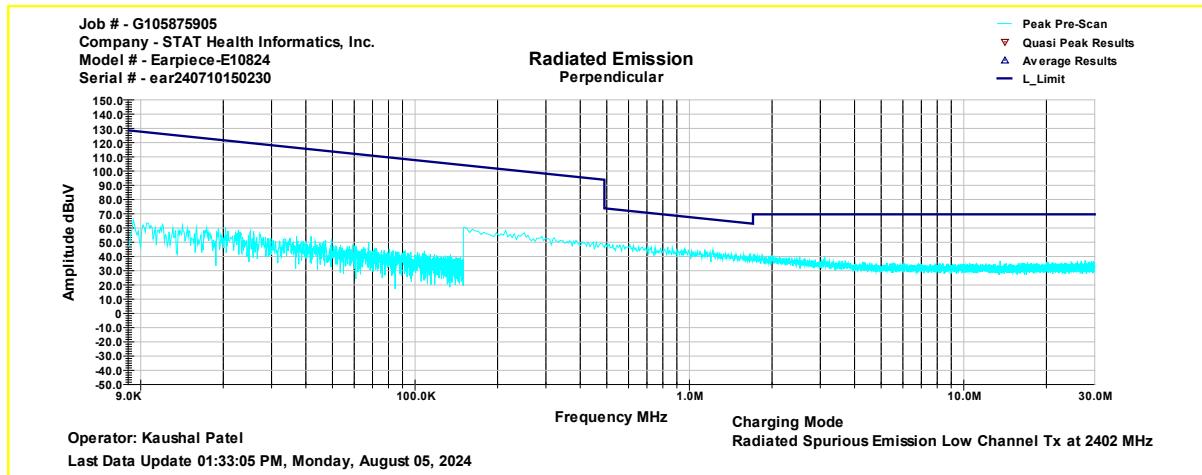
Frequency (MHz)	Avg@ 3m (dB μ V/m)	Lim. Avg @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
14350.45	41.4	54	-12.6	193	178	Vertical	2.89
16407.55	44	54	-9.9	400	309	Vertical	5.30
17811.45	45.1	54	-8.9	399	256	Vertical	7.78

Note: Correction = AF + CF - Preamp

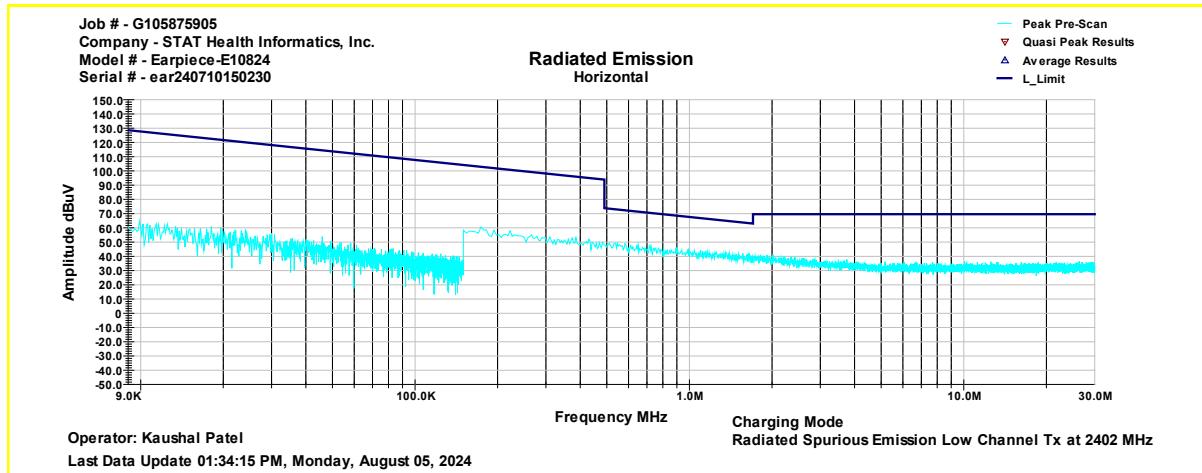
Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz



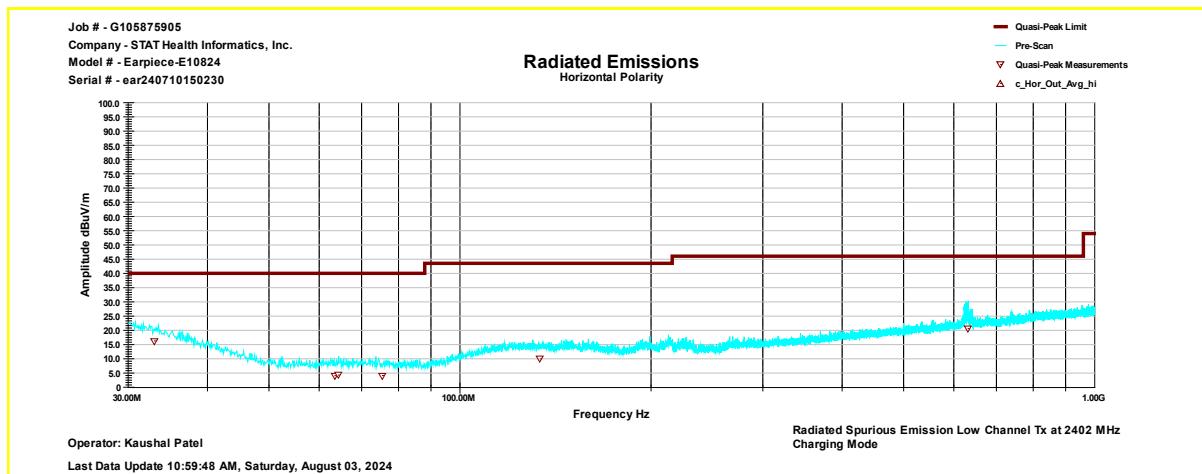
Note: FS@3m = RA + Correction
Correction = AF + CF - Preamp

Charging Mode**Test Results: 15.209 Radiated Spurious Emissions Low Channel, Tx at 2402MHz**Radiated Spurious Emissions 9kHz - 30 MHz Parallel Antenna PolarizationRadiated Spurious Emissions 9kHz - 30 MHz Perpendicular Antenna Polarization

Radiated Spurious Emissions 9kHz - 30 MHz Horizontal Antenna Polarization

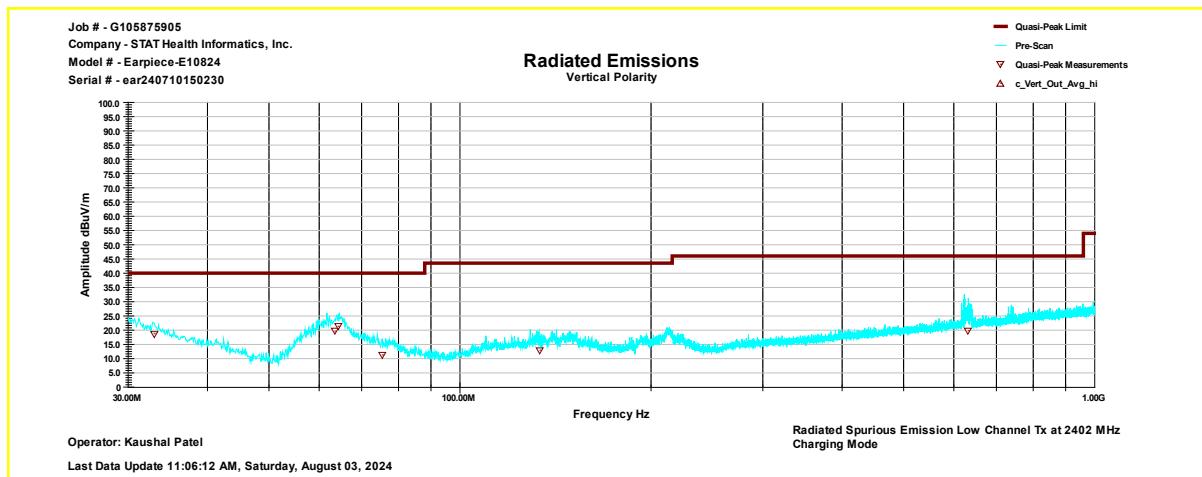


Radiated Spurious Emissions 30 MHz - 1000 MHz Horizontal Antenna Polarization



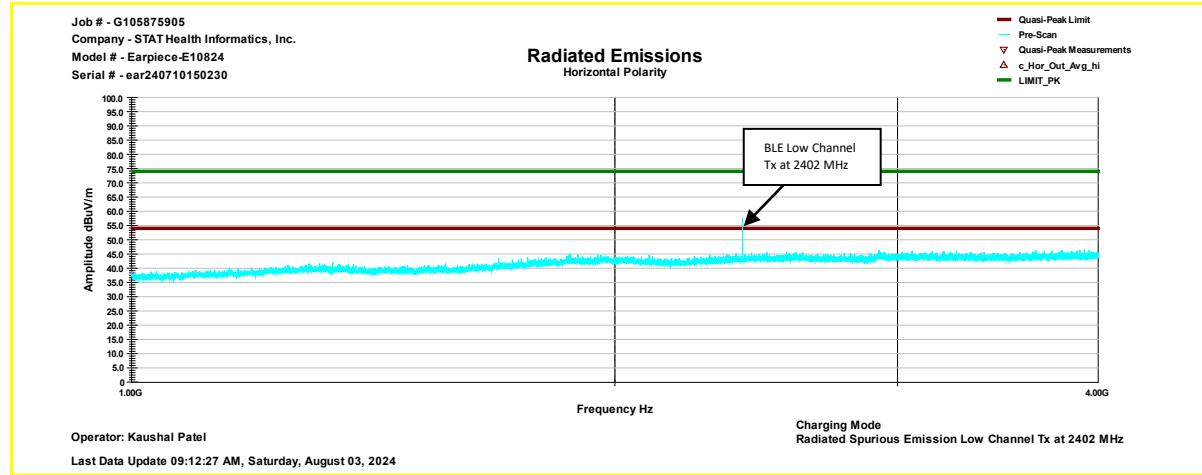
Frequency (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
33.01	16.3	40	-23.7	250	78	Horizontal	-10.1
63.51	4.1	40	-35.9	100	76	Horizontal	-21.8
64.35	4.3	40	-35.7	185	59	Horizontal	-21.8
75.51	4.1	40	-35.9	240	179	Horizontal	-21.7
133.75	10	43.5	-33.5	100	167	Horizontal	-16.2
631.95	20.6	46	-25.4	149	90	Horizontal	-7.3

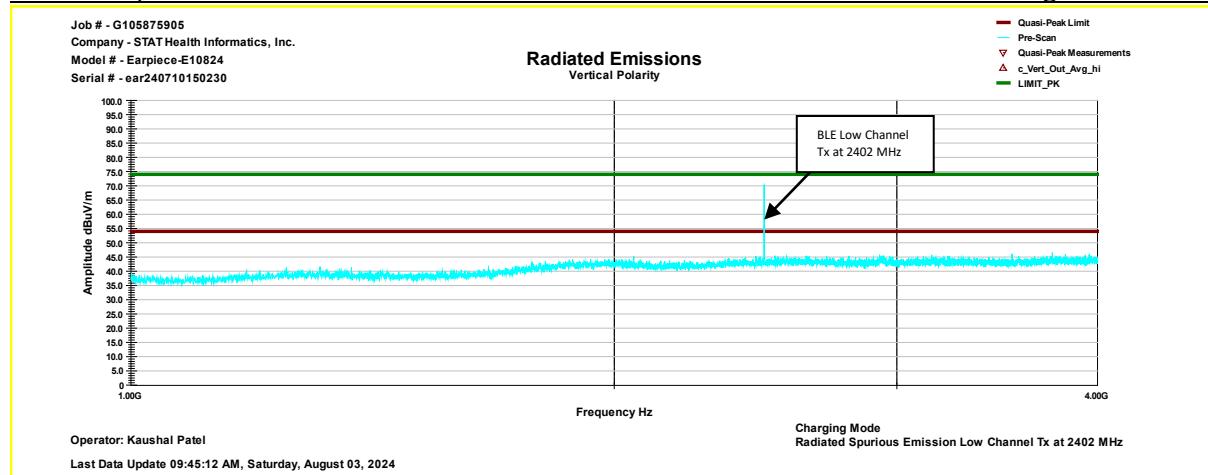
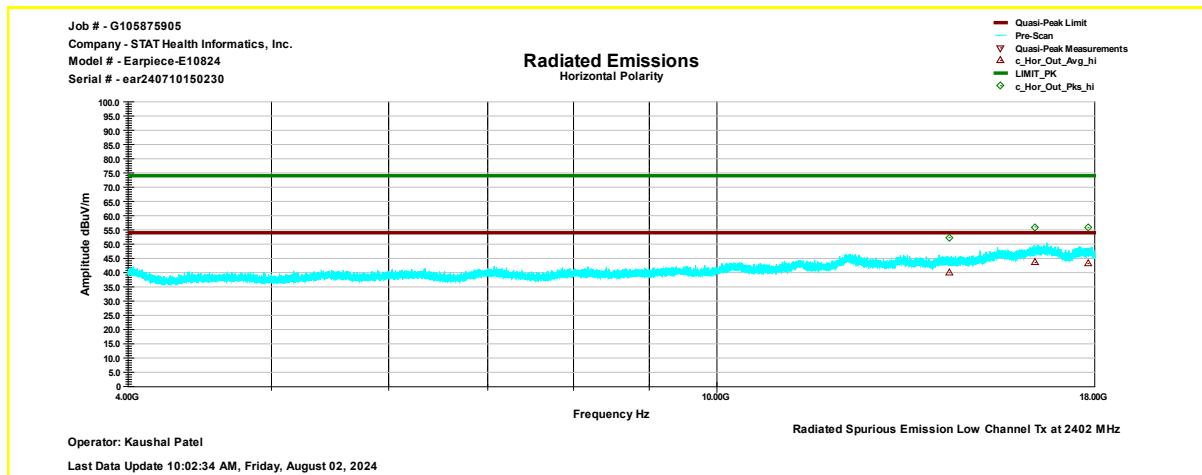
Note: Correction = AF + CF - Preamp

Radiated Spurious Emissions 30 MHz - 1000 MHz Vertical Antenna Polarization


Frequency (MHz)	QPeak@ 3m (dB μ V/m)	Lim. QPeak @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
32.96	18.7	40	-21.3	127	80	Vertical	-10.1
63.49	19.6	40	-20.4	150	25	Vertical	-21.9
64.28	21.3	40	-18.7	100	62	Vertical	-21.8
75.45	11.3	40	-28.7	150	274	Vertical	-21.7
133.67	13	43.5	-30.6	121	265	Vertical	-16.2
631.92	19.8	46	-26.2	185	25	Vertical	-7.3

Note: Correction = AF + CF - Preamp

Radiated Spurious Emissions 1000 MHz - 4000 MHz Horizontal Antenna Polarization vs Avg & Peak Limit


Radiated Spurious Emissions 1000 MHz - 4000 MHz Vertical Antenna Polarization vs Avg & Peak Limit

Radiated Spurious Emissions 4000 MHz - 18000 MHz Horizontal Antenna Polarization vs Avg & Peak Limit


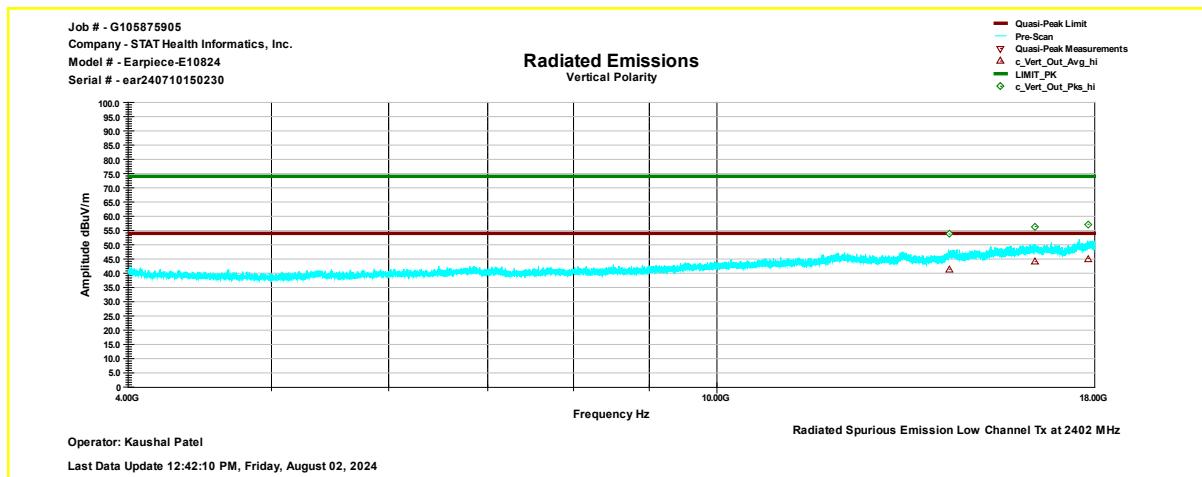
Note: Measurements made from 4 GHz to 18GHz had a 2.4-2.5GHz notch filter in place

Frequency (MHz)	Pk@ 3m (dBμV/m)	Lim. Pk @3m (dBμV/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
14350.55	52.3	74	-21.7	305	251	Horizontal	10.7
16407.45	56.1	74	-17.9	372	232	Horizontal	15.8
17811.55	55.7	74	-18.3	299	81	Horizontal	18.3

Note: Correction = AF + CF - Preamp

Frequency (MHz)	Avg@ 3m (dBμV/m)	Lim. Avg @3m (dBμV/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
14350.55	40	54	-14	305	251	Horizontal	10.7
16407.45	43.5	54	-10.4	372	232	Horizontal	15.8
17811.55	43.2	54	-10.8	299	81	Horizontal	18.3

Note: Correction = AF + CF - Preamp

Radiated Spurious Emissions 4000 MHz - 18000 MHz Vertical Antenna Polarization vs Avg & Peak Limit


Note: Measurements made from 4 GHz to 18GHz had a 2.4-2.5GHz notch filter in place

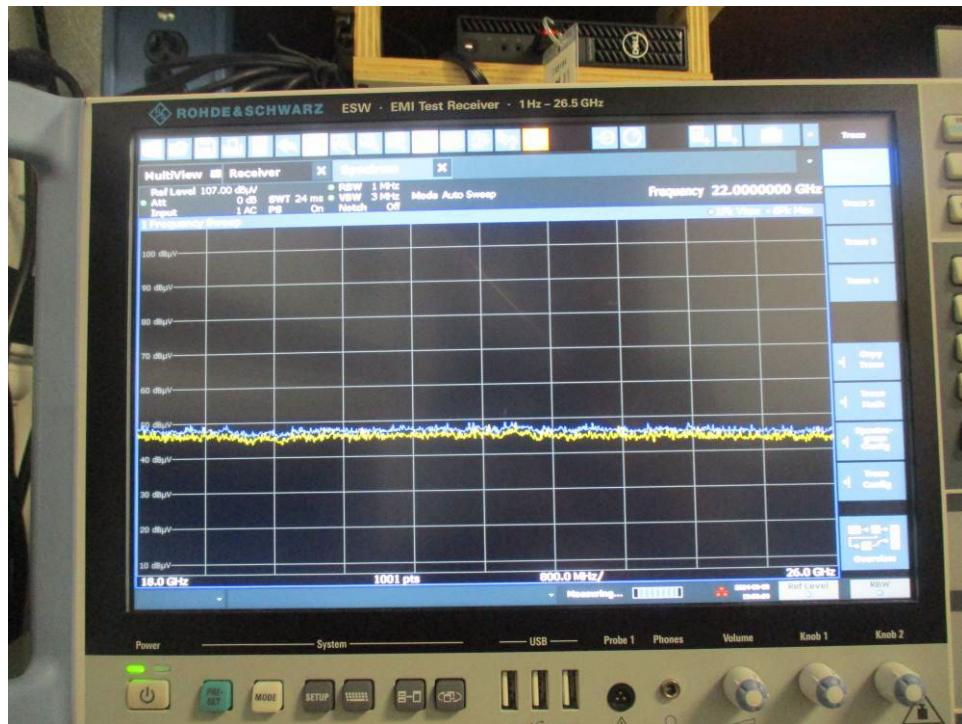
Frequency (MHz)	Pk@ 3m (dB μ V/m)	Lim. Pk @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
14350.55	53.7	74	-20.3	173	320	Vertical	2.89
16407.45	56.2	74	-17.8	109	279	Vertical	5.30
17811.55	56.9	74	-17.1	243	91	Vertical	7.78

Note: Correction = AF + CF - Preamp

Frequency (MHz)	Avg@ 3m (dB μ V/m)	Lim. Avg @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
14350.55	41	54	-13	173	320	Vertical	2.89
16407.45	43.5	54	-10.4	109	279	Vertical	5.30
17811.55	44.7	54	-9.2	243	91	Vertical	7.78

Note: Correction = AF + CF - Preamp

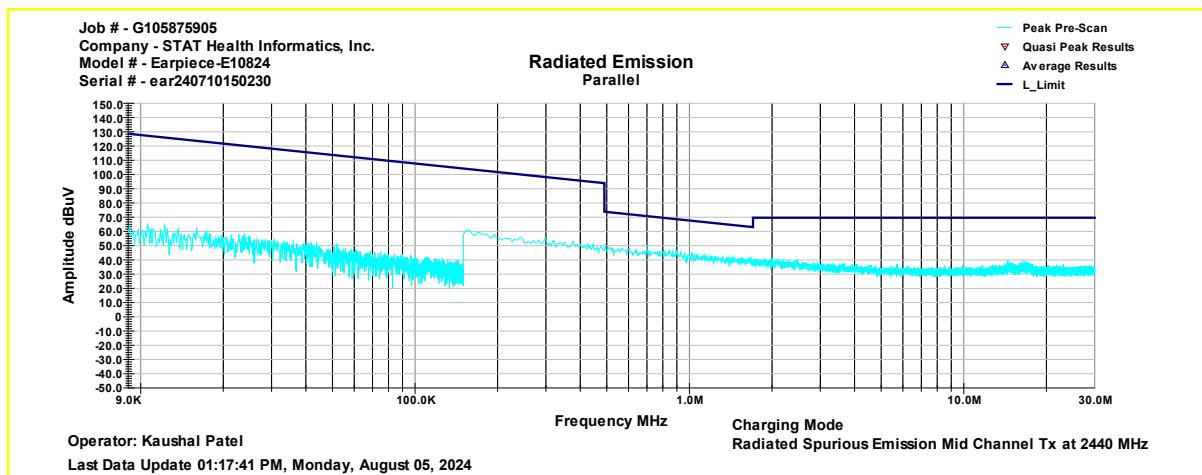
Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz



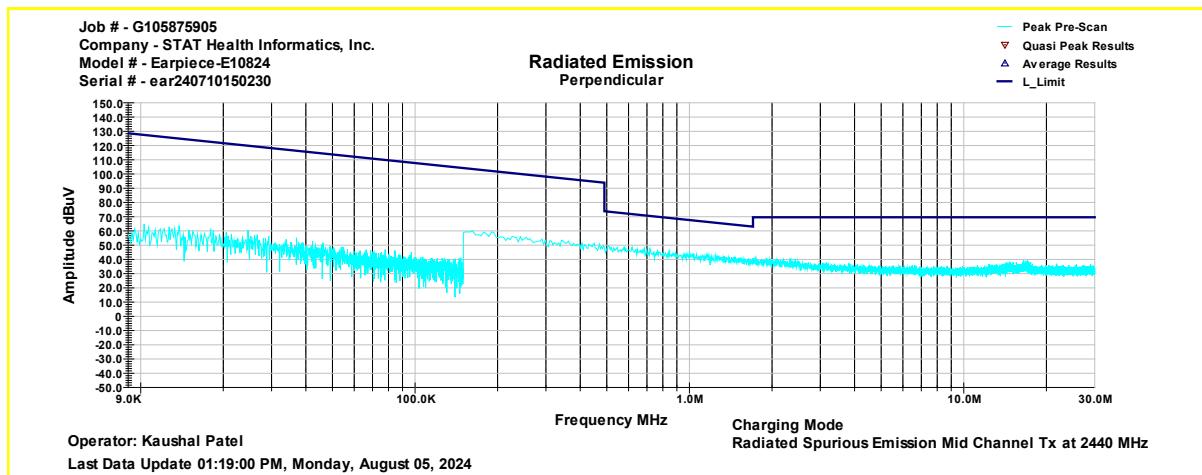
Note: FS@3m = RA + Correction
Correction = AF + CF - Preamp

Test Results: 15.209 Radiated Spurious Emissions Mid Channel, Tx at 2440MHz

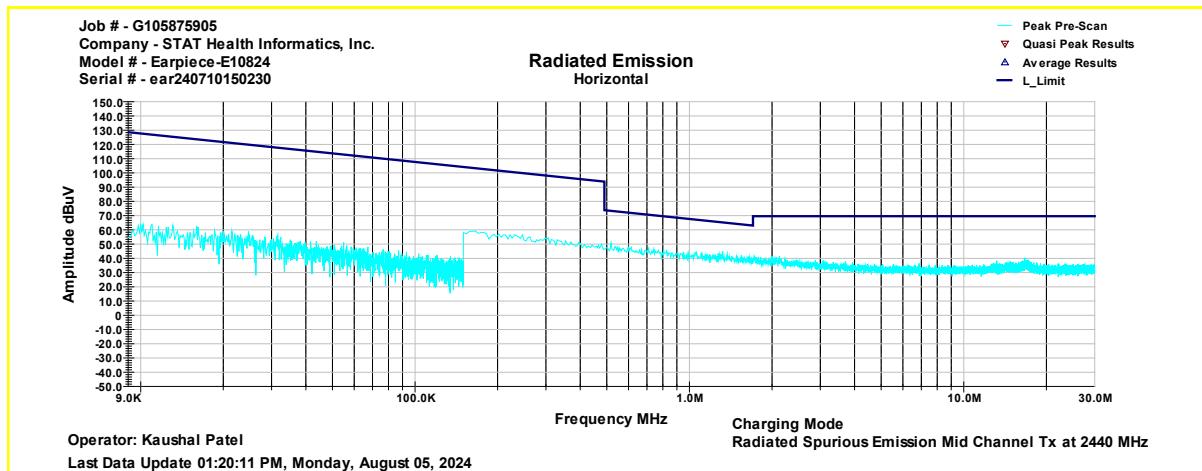
Radiated Spurious Emissions 9kHz - 30 MHz Parallel Antenna Polarization



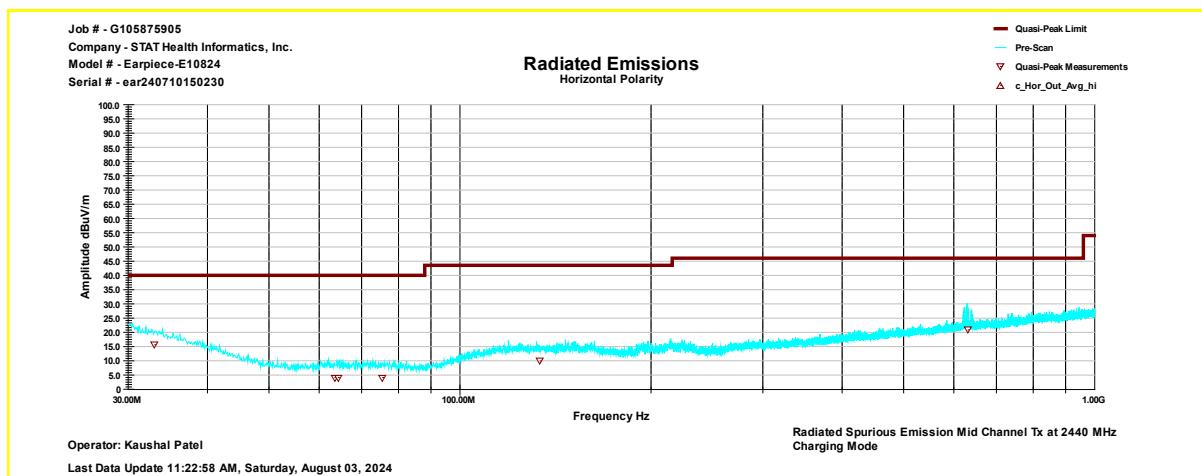
Radiated Spurious Emissions 9kHz - 30 MHz Perpendicular Antenna Polarization



Radiated Spurious Emissions 9kHz - 30 MHz Horizontal Antenna Polarization



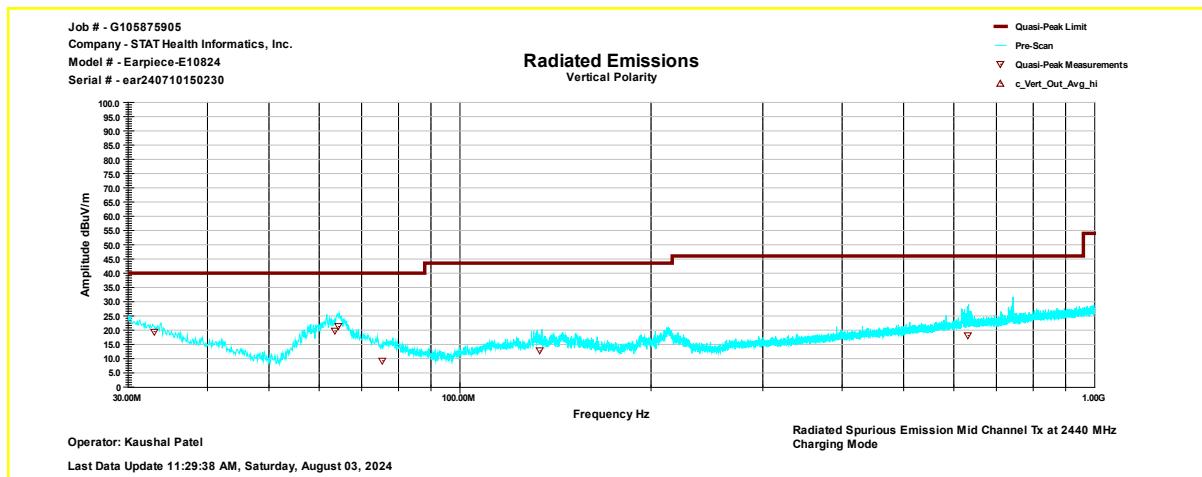
Radiated Spurious Emissions 30 MHz - 1000 MHz Horizontal Antenna Polarization



Frequency (MHz)	QPeak@ 3m (dB μ V/m)	Lim. QPeak @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
33.01	15.6	40	-24.4	349	63	Horizontal	-10.1
63.51	4.1	40	-35.9	150	79	Horizontal	-21.8
64.35	4.1	40	-35.9	100	90	Horizontal	-21.8
75.51	4.1	40	-35.9	249	172	Horizontal	-21.7
133.75	9.9	43.5	-33.6	100	87	Horizontal	-16.2
631.95	20.8	46	-25.2	203	73	Horizontal	-7.3

Note: Correction = AF + CF - Preamp

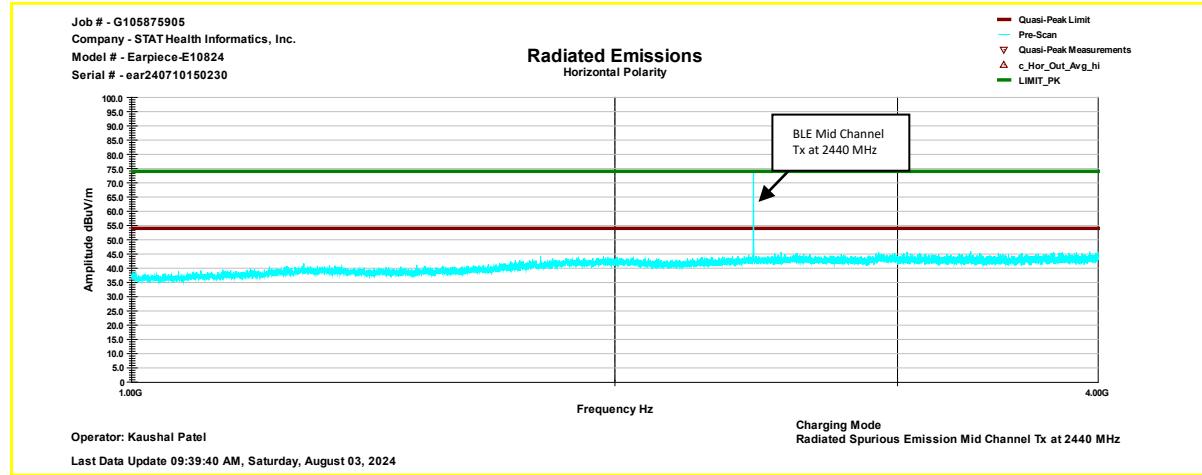
Radiated Spurious Emissions 30 MHz - 1000 MHz Vertical Antenna Polarization



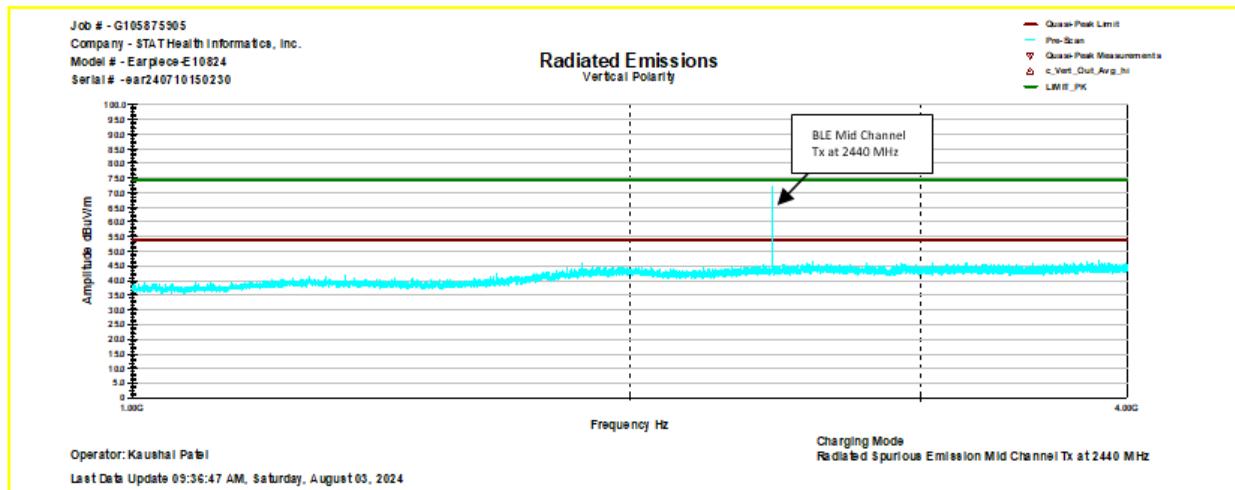
Frequency (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
32.96	19.5	40	-20.5	100	188	Vertical	-10.1
63.49	19.8	40	-20.2	168	139	Vertical	-21.9
64.28	21.2	40	-18.8	109	25	Vertical	-21.8
75.45	9.2	40	-30.8	250	98	Vertical	-21.7
133.67	12.7	43.5	-30.8	99.9	202	Vertical	-16.2
631.92	18.1	46	-27.9	250	25	Vertical	-7.3

Note: Correction = AF + CF - Preamp

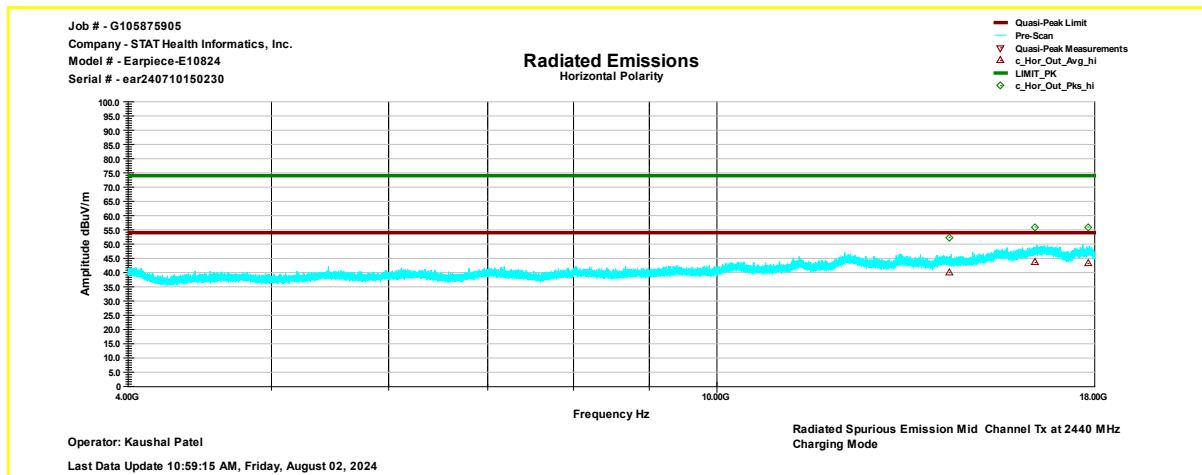
Radiated Spurious Emissions 1000 MHz - 4000 MHz Horizontal Antenna Polarization vs Avg & Peak Limit



Radiated Spurious Emissions 1000 MHz - 4000 MHz Vertical Antenna Polarization vs Avg & Peak Limit



Radiated Spurious Emissions 4000 MHz - 18000 MHz Horizontal Antenna Polarization vs Avg & Peak Limit



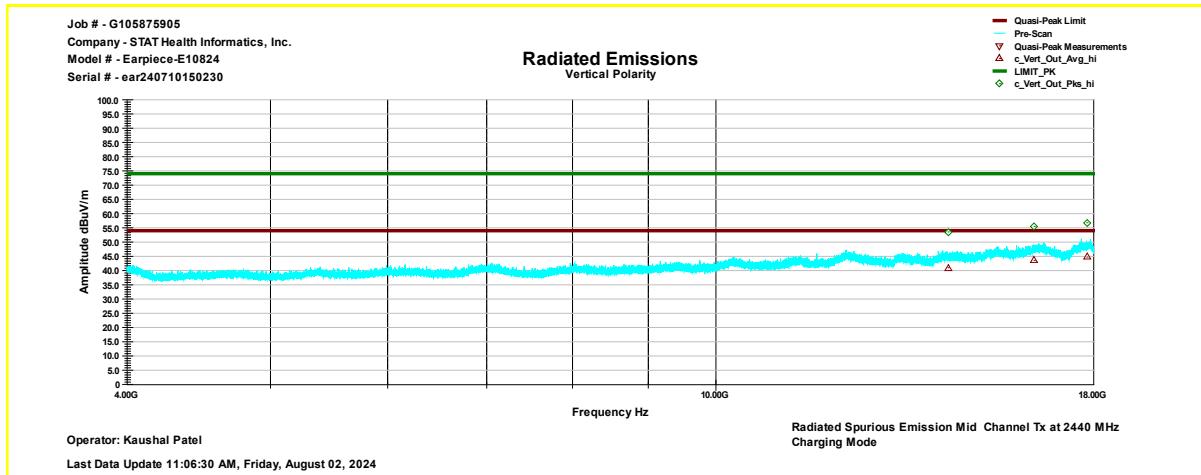
Note: Measurements made from 4 GHz to 18GHz had a 2.4-2.5GHz notch filter in place

Frequency (MHz)	Pk@ 3m (dBµV/m)	Lim. Pk @3m (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
14350.55	52.4	74	-21.6	289	189	Horizontal	10.7
16407.45	56	74	-18	137	22	Horizontal	15.8
17811.55	56	74	-18	400	30	Horizontal	18.3

Note: Correction = AF + CF - Preamp

Frequency (MHz)	Avg@ 3m (dBµV/m)	Lim. Avg @3m (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
14350.55	40	54	-14	289	189	Horizontal	10.7
16407.45	43.5	54	-10.5	137	22	Horizontal	15.8
17811.55	43.1	54	-10.8	400	30	Horizontal	18.3

Note: Correction = AF + CF - Preamp

Radiated Spurious Emissions 4000 MHz - 18000 MHz Vertical Antenna Polarization vs Avg & Peak Limit


Note: Measurements made from 4 GHz to 18GHz had a 2.4-2.5GHz notch filter in place

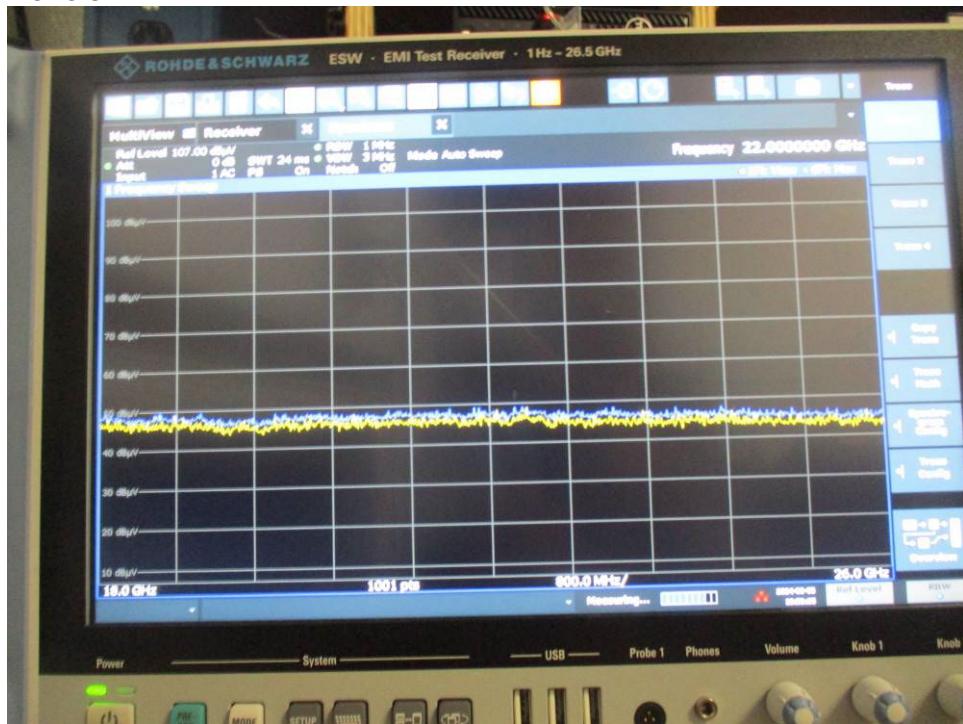
Frequency (MHz)	Pk@ 3m (dB μ V/m)	Lim. Pk @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
14350.45	53.5	74	-20.5	282	237	Vertical	2.89
16407.55	55.5	74	-18.5	209	299	Vertical	5.30
17811.45	56.8	74	-17.2	100	212	Vertical	7.78

Note: Correction = AF + CF - Preamp

Frequency (MHz)	Avg@ 3m (dB μ V/m)	Lim. Avg @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
14350.45	41	54	-13	282	237	Vertical	2.89
16407.55	43.5	54	-10.4	209	299	Vertical	5.30
17811.45	44.7	54	-9.3	100	212	Vertical	7.78

Note: Correction = AF + CF - Preamp

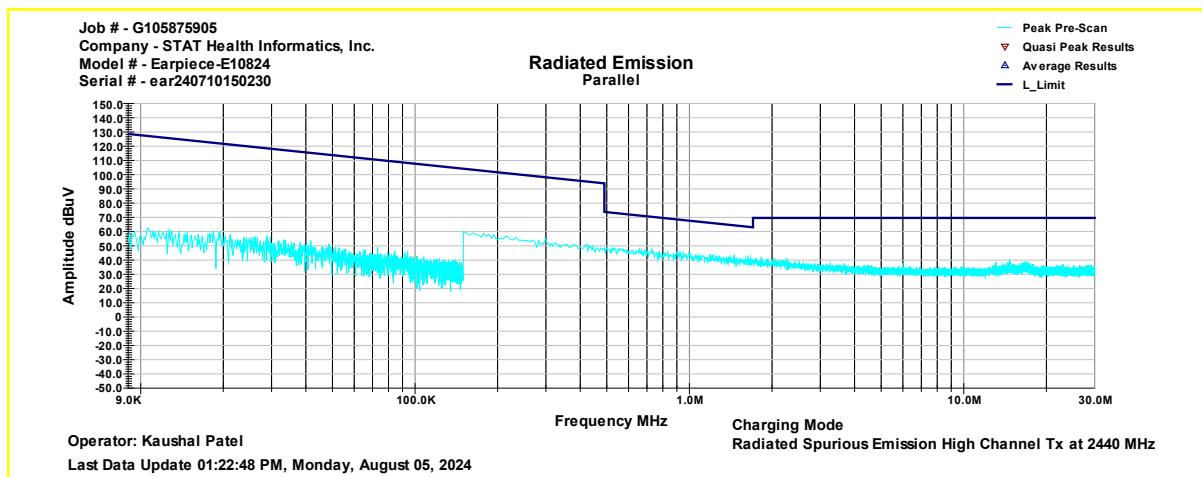
Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz



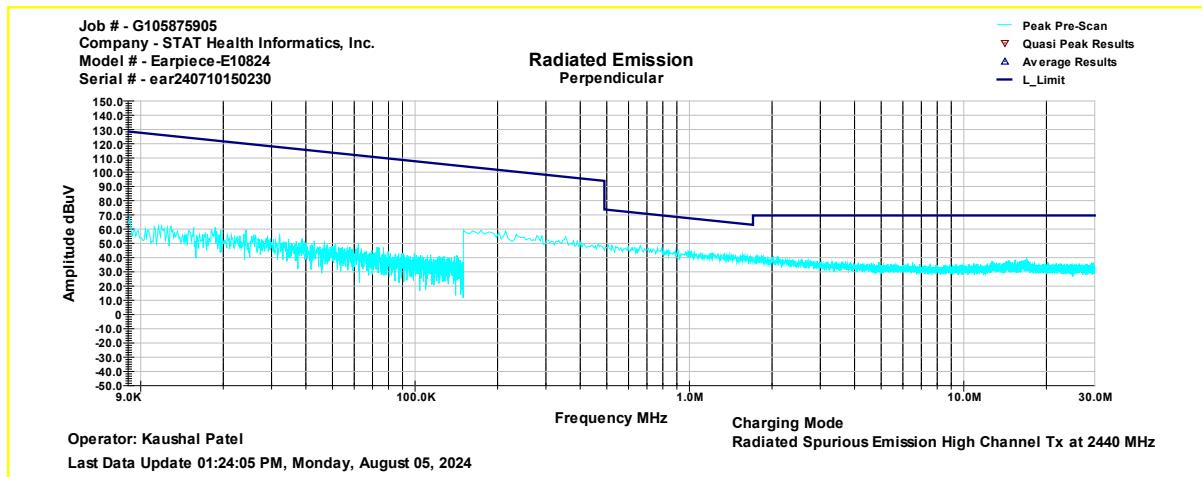
Note: FS@3m = RA + Correction
Correction = AF + CF - Preamp

Test Results: 15.209 Radiated Spurious Emissions High Channel, Tx at 2480MHz

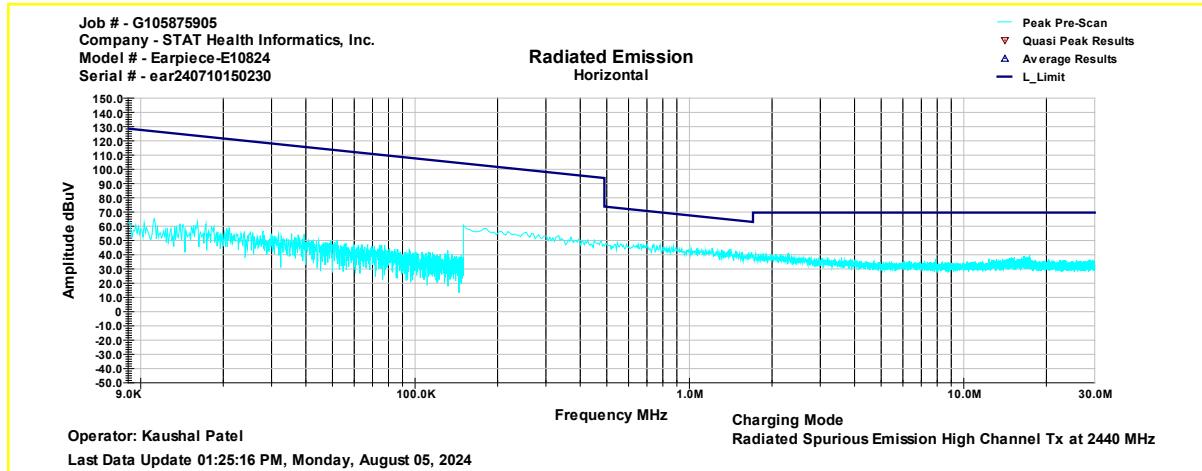
Radiated Spurious Emissions 9kHz - 30 MHz Parallel Antenna Polarization



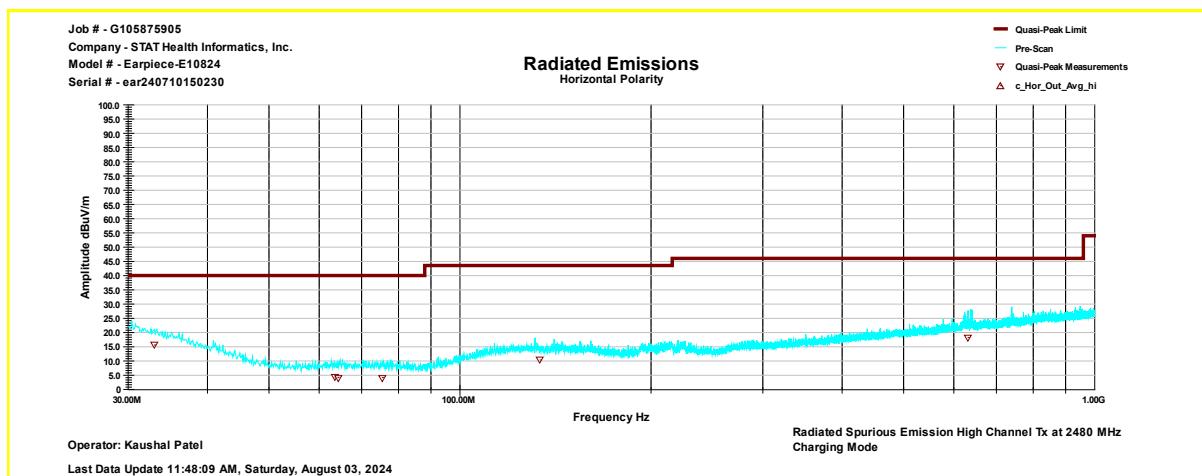
Radiated Spurious Emissions 9kHz - 30 MHz Perpendicular Antenna Polarization



Radiated Spurious Emissions 9kHz - 30 MHz Horizontal Antenna Polarization

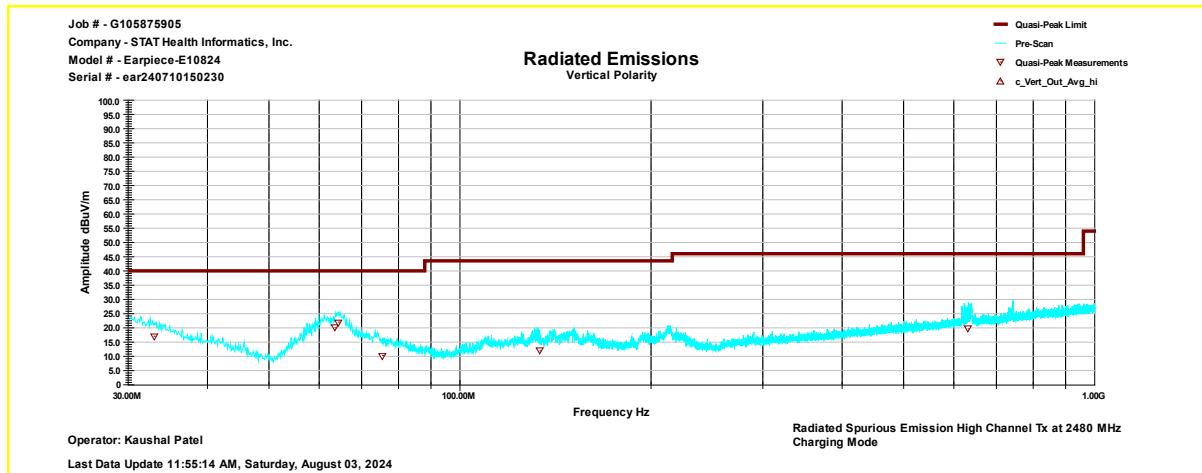


Radiated Spurious Emissions 30 MHz - 1000 MHz Horizontal Antenna Polarization



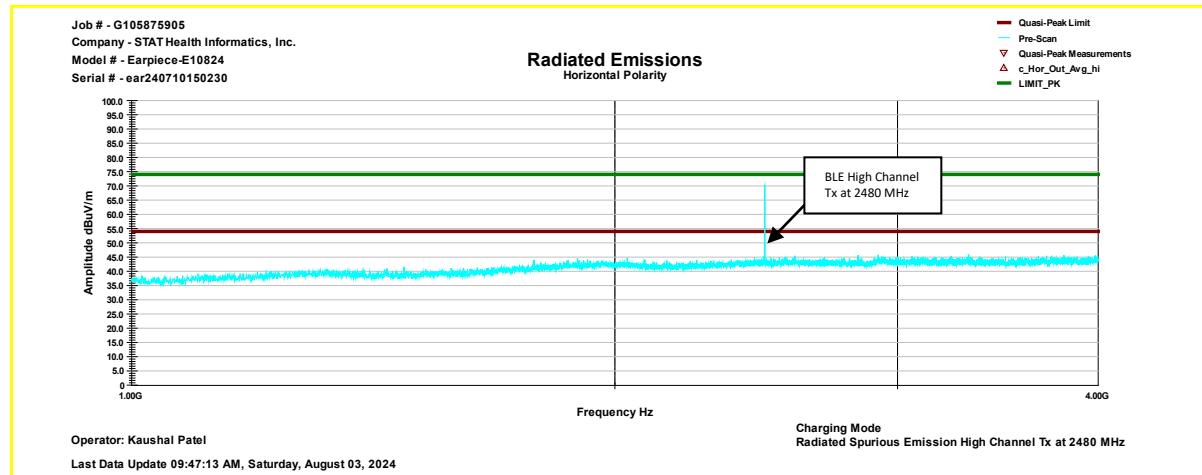
Frequency (MHz)	QPeak@3m (dB μ V/m)	Lim. QPeak @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
33.01	15.6	40	-24.4	221	180	Horizontal	-10.1
63.51	4.3	40	-35.7	239	239	Horizontal	-21.8
64.35	4.1	40	-35.9	149	153	Horizontal	-21.8
75.51	4.1	40	-35.9	167	0	Horizontal	-21.7
133.75	10.3	43.5	-33.2	295	147	Horizontal	-16.2
631.95	18.3	46	-27.8	313	67	Horizontal	-7.3

Note: Correction = AF + CF - Preamp

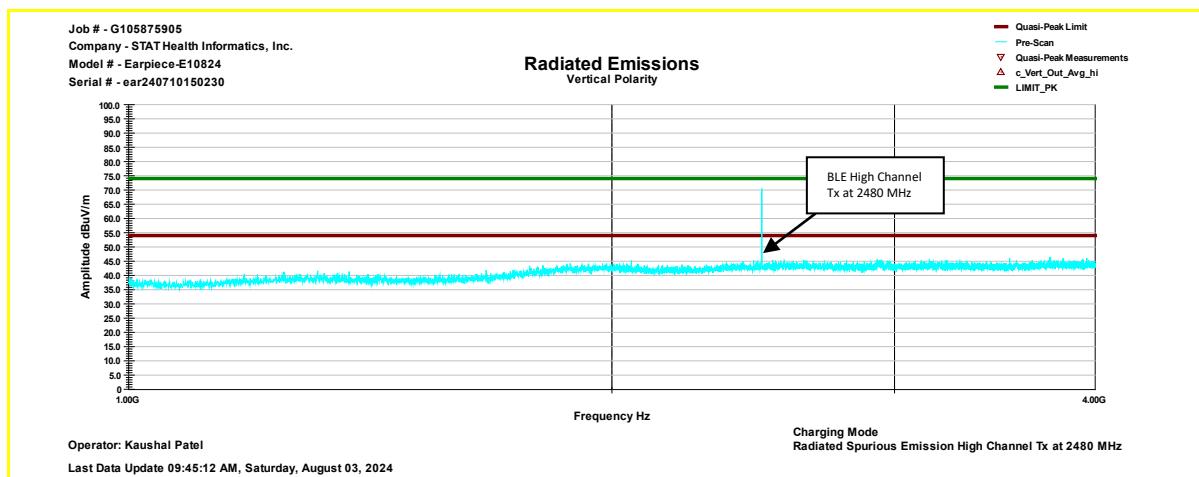
Radiated Spurious Emissions 30 MHz - 1000 MHz Vertical Antenna Polarization


Frequency (MHz)	QPeak@ 3m (dB μ V/m)	Lim. QPeak @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
32.96	17	40	-23	250	255	Vertical	-10.1
63.49	20	40	-20	100	261	Vertical	-21.9
64.28	22	40	-18	100	161	Vertical	-21.8
75.45	10.2	40	-29.8	100	25	Vertical	-21.7
133.67	11.9	43.5	-31.6	100	39	Vertical	-16.2
631.92	19.6	46	-26.4	150	261	Vertical	-7.3

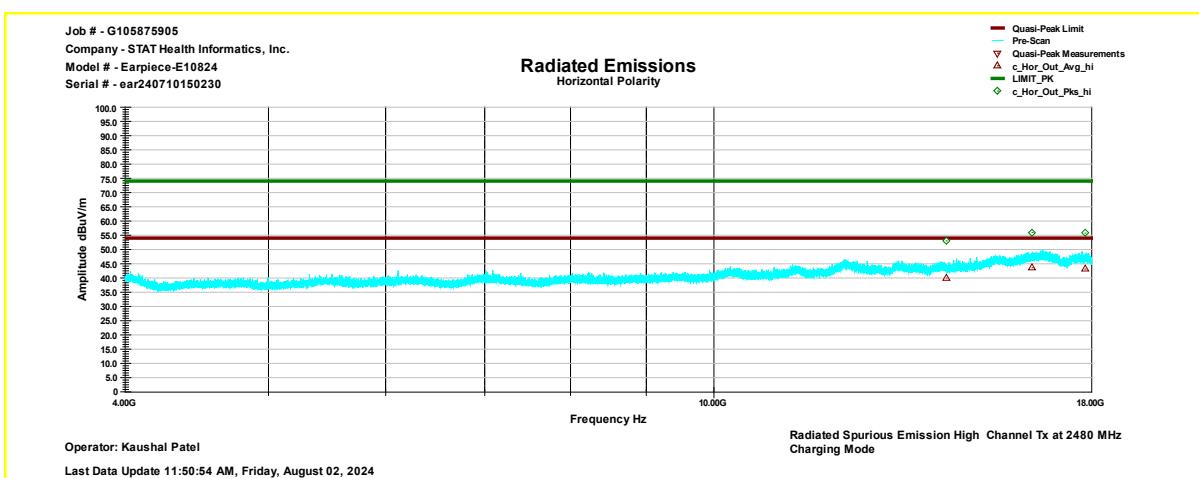
Note: Correction = AF + CF - Preamp

Radiated Spurious Emissions 1000 MHz - 4000 MHz Horizontal Antenna Polarization vs Avg & Peak Limit


Radiated Spurious Emissions 1000 MHz - 4000 MHz Vertical Antenna Polarization vs Avg & Peak Limit



Radiated Spurious Emissions 4000 MHz - 18000 MHz Horizontal Antenna Polarization vs Avg & Peak Limit



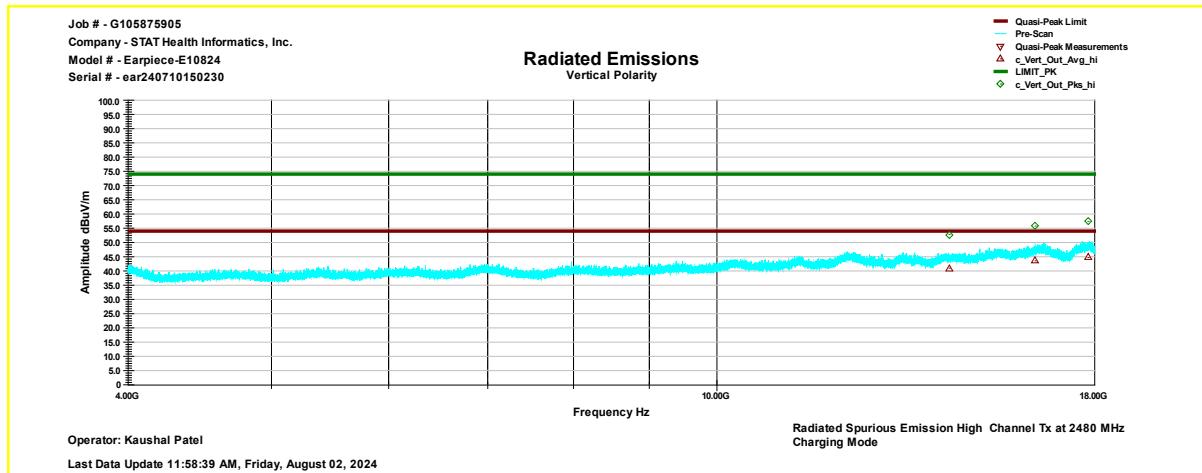
Note: Measurements made from 4 GHz to 18GHz had a 2.4-2.5GHz notch filter in place

Frequency (MHz)	Pk@ 3m (dB μ V/m)	Lim. Pk @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
14350.45	53	74	-21	217	225	Horizontal	10.7
16407.55	56	74	-18	400	154	Horizontal	15.8
17811.55	55.7	74	-18.3	118	70	Horizontal	18.3

Note: Correction = AF + CF - Preamp

Frequency (MHz)	Avg@ 3m (dB μ V/m)	Lim. Avg @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
14350.45	39.9	54	-14.1	217	225	Horizontal	10.7
16407.55	43.5	54	-10.4	400	154	Horizontal	15.8
17811.55	43.1	54	-10.9	118	70	Horizontal	18.3

Note: Correction = AF + CF - Preamp

Radiated Spurious Emissions 4000 MHz - 18000 MHz Vertical Antenna Polarization vs Avg & Peak Limit


Note: Measurements made from 4 GHz to 18GHz had a 2.4-2.5GHz notch filter in place

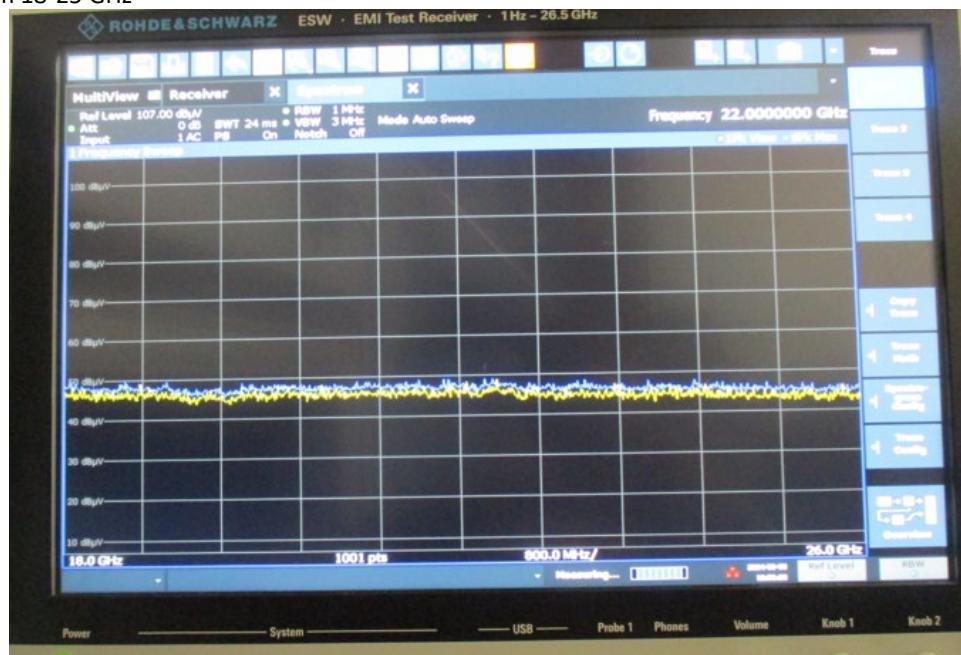
Frequency (MHz)	Pk@ 3m (dB μ V/m)	Lim. Pk @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
14350.45	52.8	74	-21.2	109	70	Vertical	2.89
16407.55	55.7	74	-18.3	190	21	Vertical	5.30
17811.45	57.4	74	-16.6	100	138	Vertical	7.78

Note: Correction = AF + CF - Preamp

Frequency (MHz)	Avg@ 3m (dB μ V/m)	Lim. Avg @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
14350.45	40.9	54	-13	109	70	Vertical	2.89
16407.55	43.5	54	-10.5	190	21	Vertical	5.30
17811.45	44.7	54	-9.3	100	138	Vertical	7.78

Note: Correction = AF + CF - Preamp

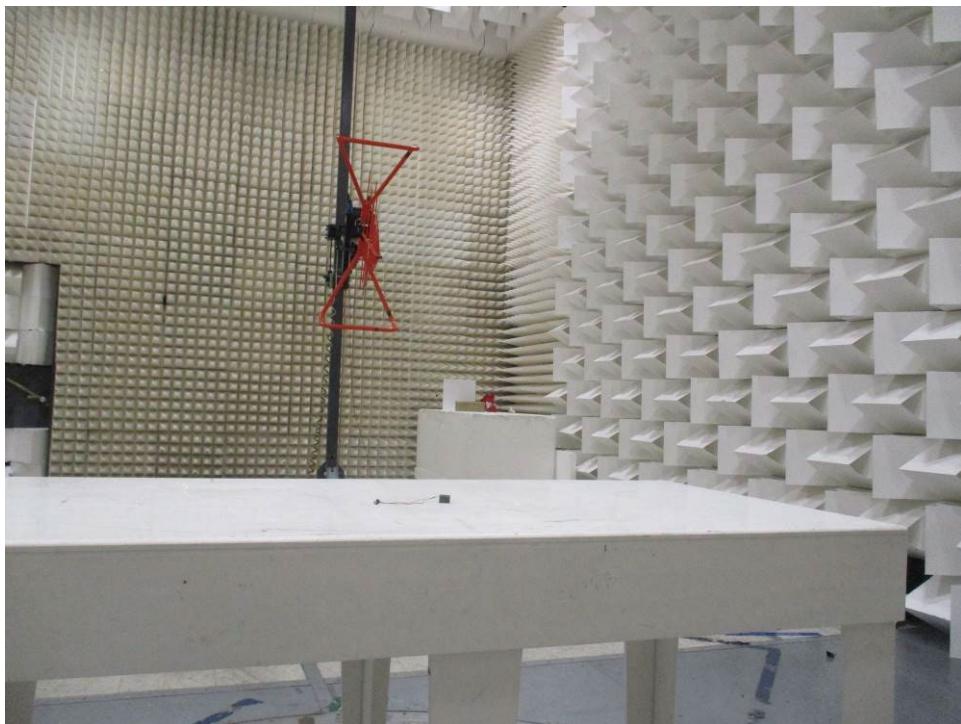
Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz



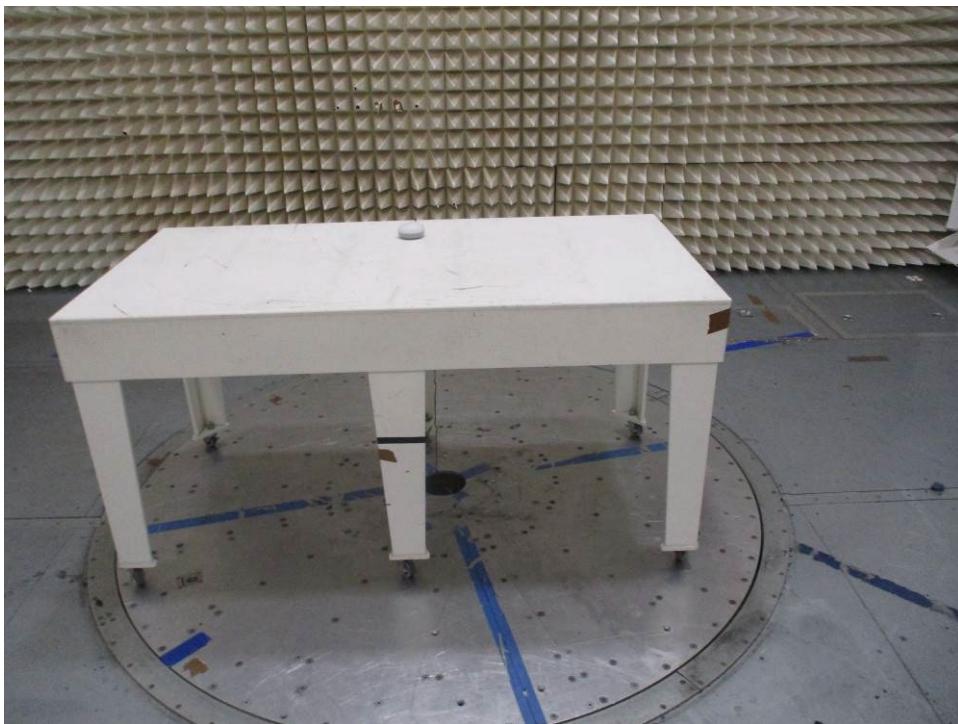
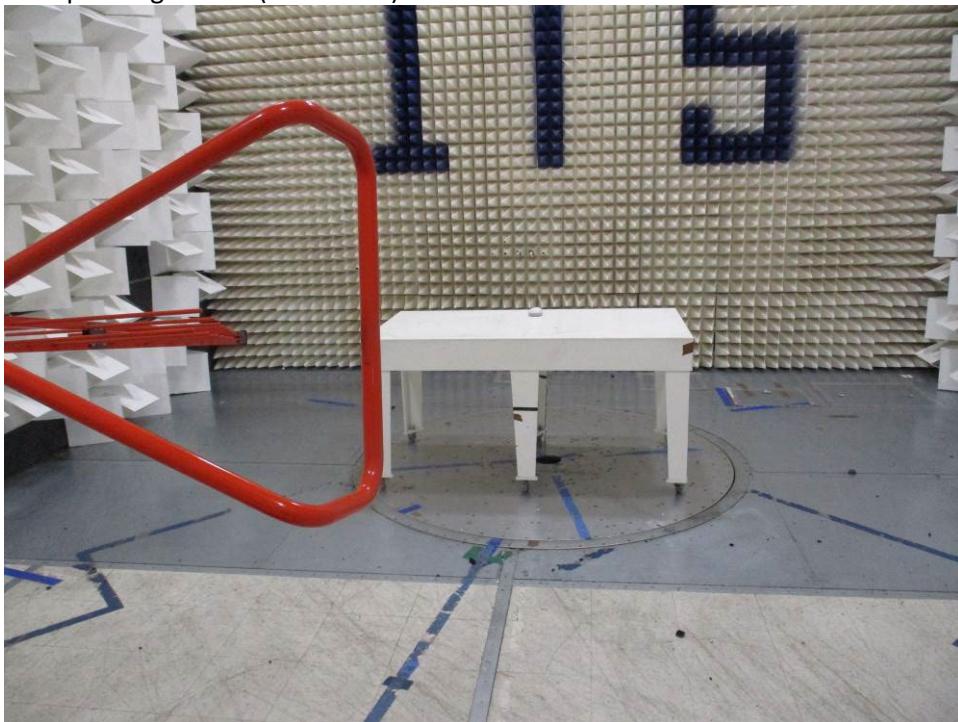
Note: FS@3m = RA + Correction
Correction = AF + CF - Preamp

4.5.5 Test Setup Configuration

The following photographs show the testing configurations used.



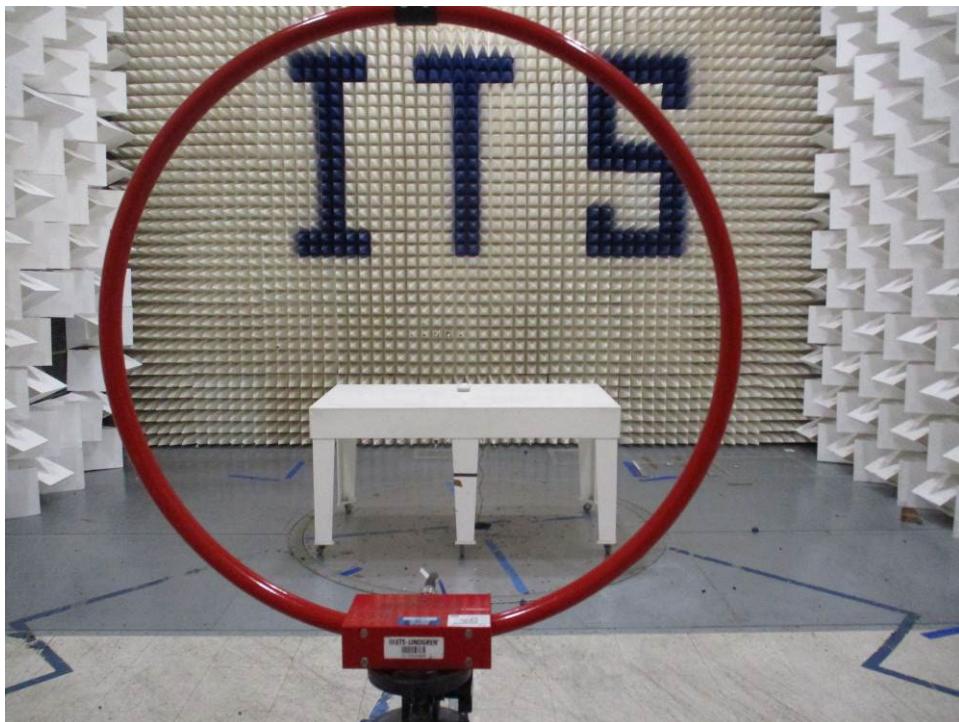
4.5.5 Test Setup Configuration (Continued)



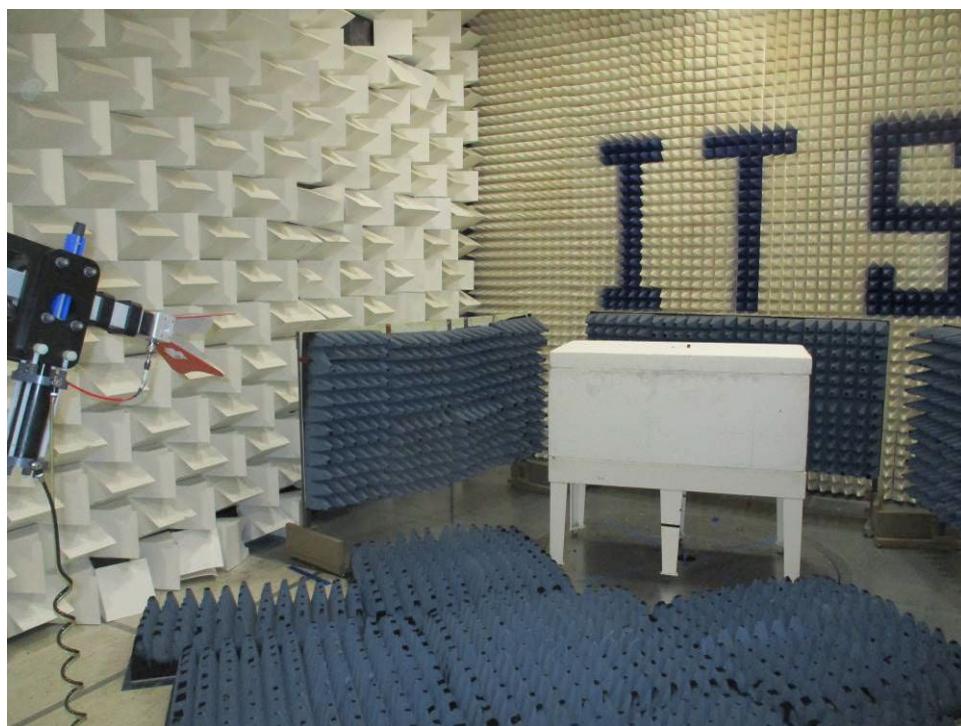
4.5.5 Test Setup Configuration (Continued)



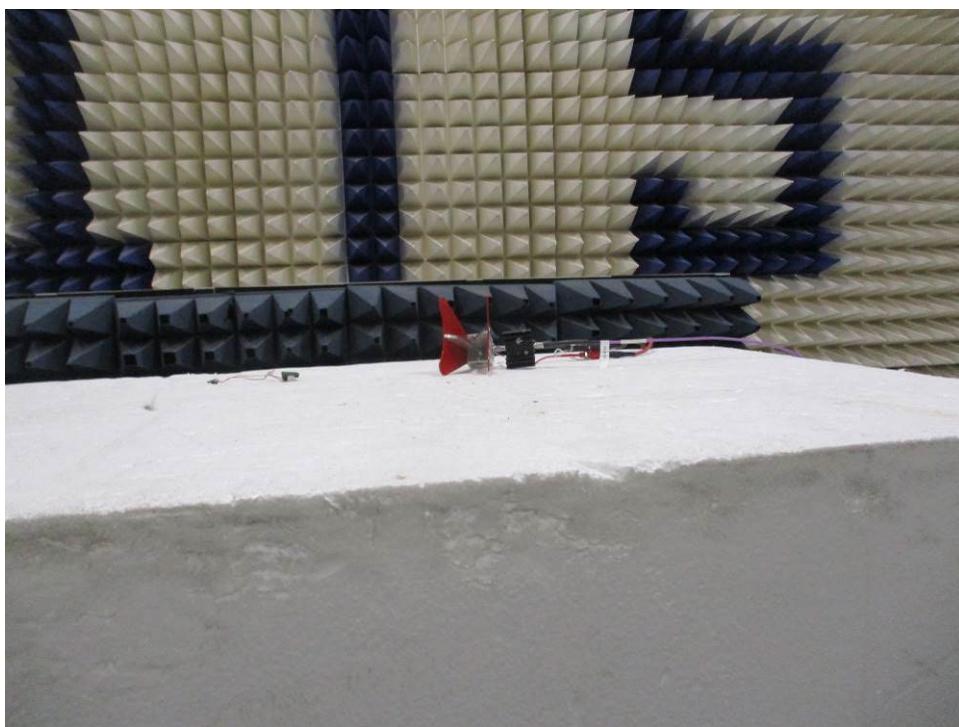
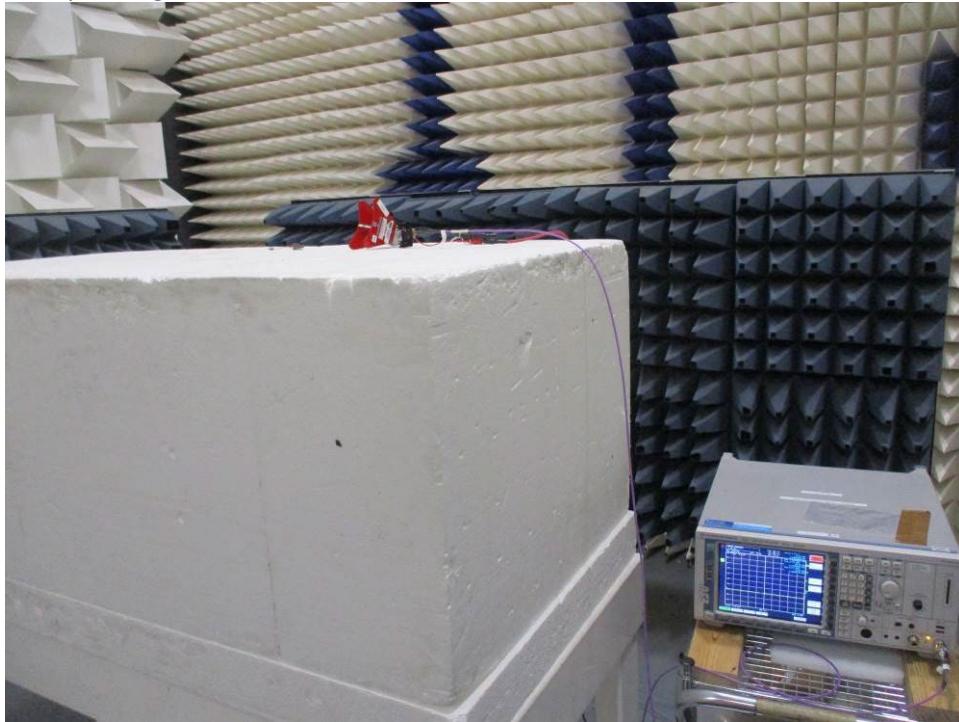
4.5.5 Test Setup Configuration (Continued)



4.5.5 Test Setup Configuration (Continued)



4.5.5 Test Setup Configuration (Continued)



4.5.5 Test Setup Configuration (Continued)



4.6 Radiated Emissions

FCC Ref: 15.109, ICES 003

4.6.1 Requirement

Limits for Electromagnetic Radiated Emissions FCC Section 15.109(b), ICES 003*, RSS GEN

Frequency (MHz)	Class A at 10m dB(µV/m)	Class B at 3m dB(µV/m)
30-88	39	40.0
88-216	43.5	43.5
216-960	46.4	46.0
Above 960	49.5	54.0

* According to FCC Part 15.109(g) an alternative to the radiated emission limits shown above, digital devices may be shown to comply with the limit of CISPR Pub. 22

4.6.2 Procedures

Measurements are conducted with a quasi-peak detector instrument in the frequency range of 30 MHz to 1000 MHz and with the average detector instrument in the frequency range above 1000 MHz. The measuring receiver meets the requirements of Section One of CISPR 16 and the measuring antenna correlates to a balanced dipole.

Measurements of the radiated field are made with the antenna located at a distance of 3 meters from the EUT. If the field-strength measurements at 3m cannot be made because of high ambient noise level or for other reasons, measurements of Class B equipment may be made at a closer distance, for example 1m. An inverse proportionality factor of 20 dB per decade should be used to normalize the measured data to the specified distance for determining compliance.

The antenna is adjusted between 1m and 4m in height above the ground plane for maximum meter reading at each test frequency.

The antenna-to-EUT azimuth is varied during the measurement to find the maximum field-strength readings.

The antenna-to-EUT polarization (horizontal and vertical) is varied during the measurements to find the maximum field-strength readings.

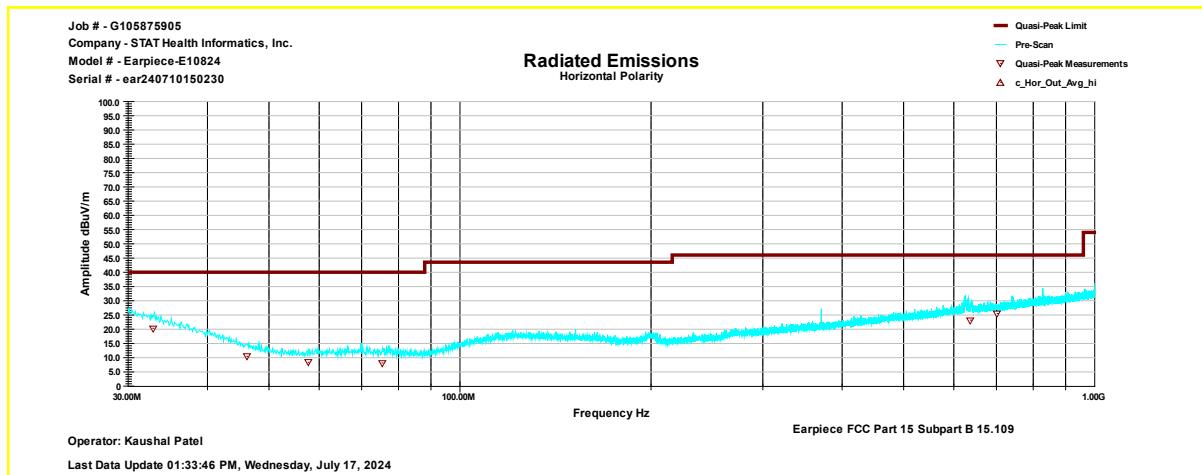
The EUT, where intended for tabletop use, is placed on a table whose top is 0.8m above the ground plane. The table is constructed of non-conductive materials. Its dimensions are 1m by 1.5m, but may be extended for a larger EUT.

Floor standing EUT are placed on a horizontal metal ground plane and isolated from the ground plane by resting on an insulating material.

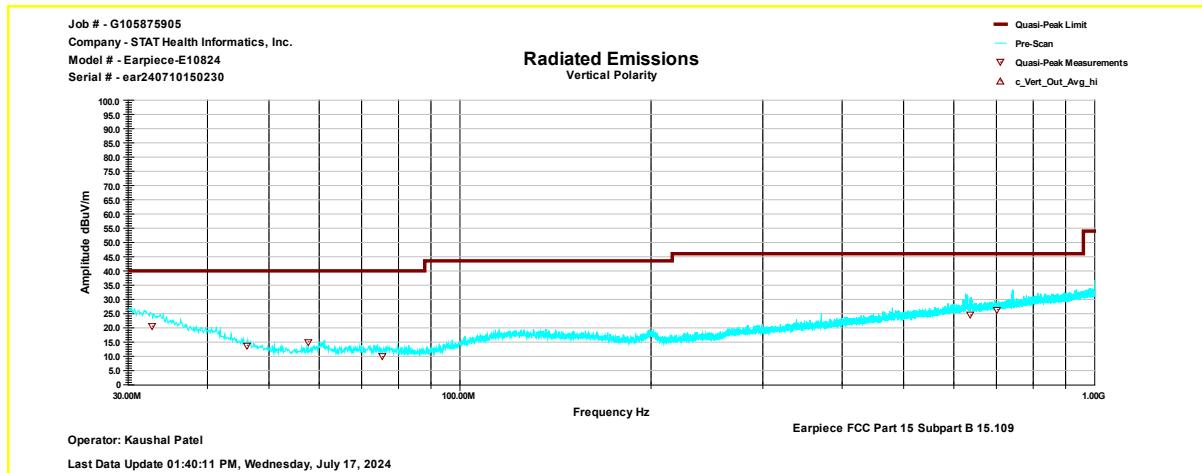
Equipment setup for radiated disturbance tests followed the guidelines of ANSI C63.4.

4.6.3 Test Results

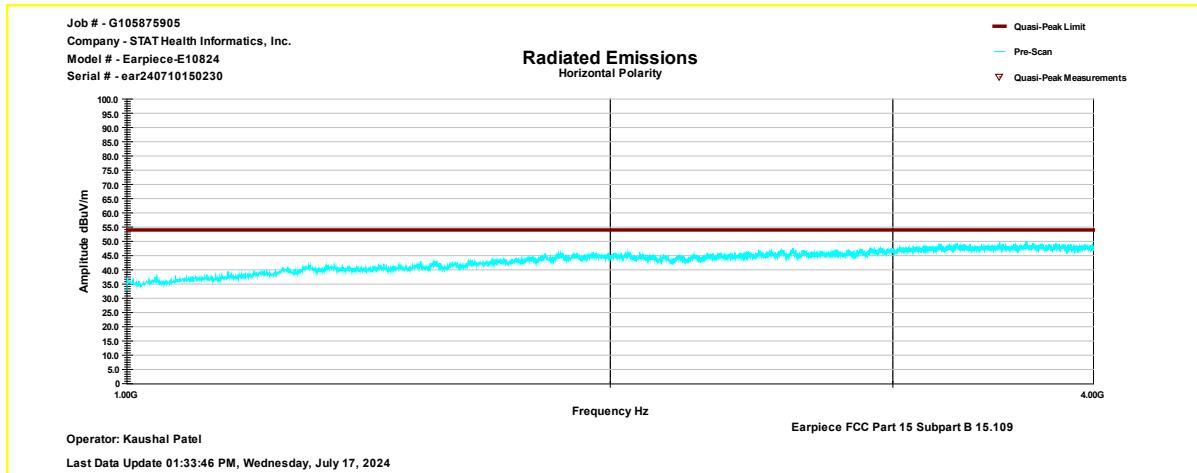
Tested By	Test Date	Results
Kaushal Patel	July 15, 2024, to August 05, 2024	Complies

Earpiece Model E81024
Test Result Radiated Emission 30 MHz-1000 MHz Horizontal Antenna Polarization


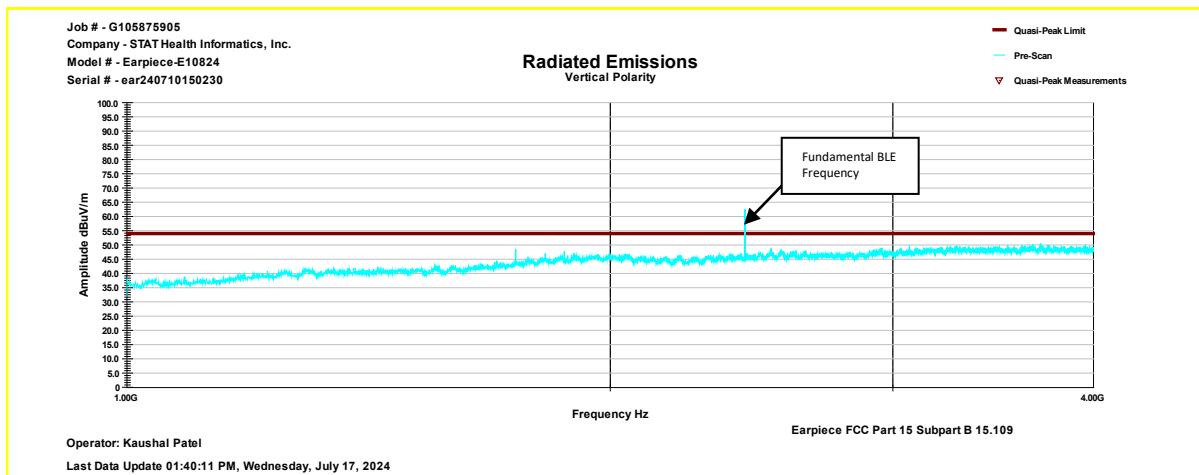
Frequency (MHz)	QPeak@ 3m (dB μ V/m)	Lim. QPeak @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
32.81	20.3	40	-19.7	291	68	Horizontal	-10
46.15	10.4	40	-29.6	108	22	Horizontal	-19.4
57.65	8.4	40	-31.6	206	9	Horizontal	-22.2
75.35	8.2	40	-31.8	173	22	Horizontal	-21.7
637.21	23.2	46	-22.8	340	242	Horizontal	-7
702.31	25.5	46	-20.5	350	142	Horizontal	-6.3

Test Result Radiated Emission 30 MHz-1000 MHz Horizontal Antenna Polarization


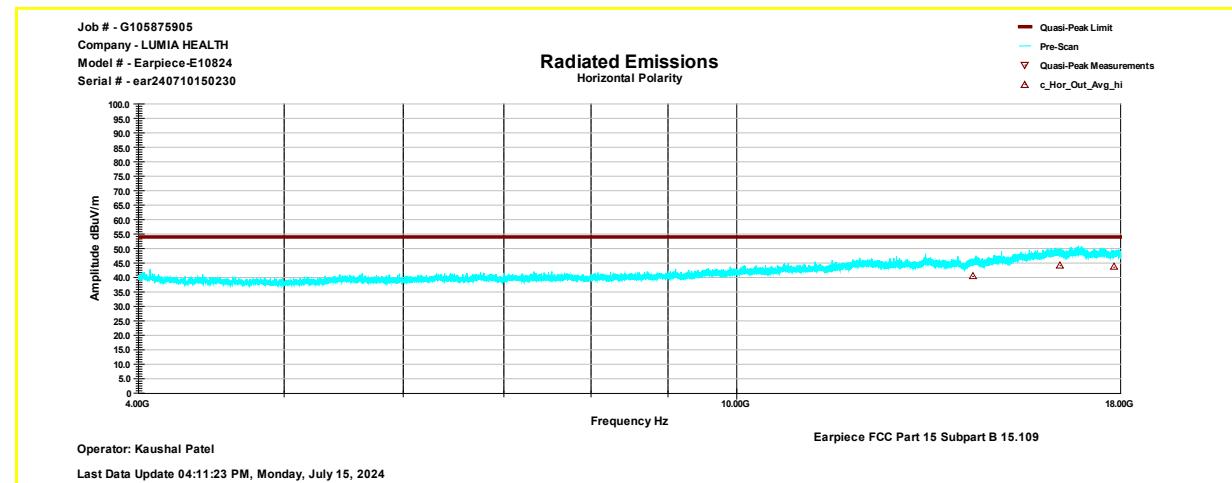
Frequency (MHz)	QPeak@ 3m (dB μ V/m)	Lim. QPeak @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
32.77	20.6	40	-19.4	324	275	Vertical	-9.9
46.22	13.9	40	-26.1	241	324	Vertical	-19.4
57.64	15.1	40	-24.9	125	202	Vertical	-22.2
75.43	9.8	40	-30.2	240	93	Vertical	-21.7
637.16	24.5	46	-21.5	190	49	Vertical	-7
702.33	26.3	46	-19.7	150	29	Vertical	-6.3

Radiated Emissions 1000 MHz - 4000 MHz Horizontal Antenna Polarization


Radiated Emissions 1000 MHz - 4000 MHz Vertical Antenna Polarization



Radiated Emissions 4000 MHz - 18000 MHz Horizontal Antenna Polarization

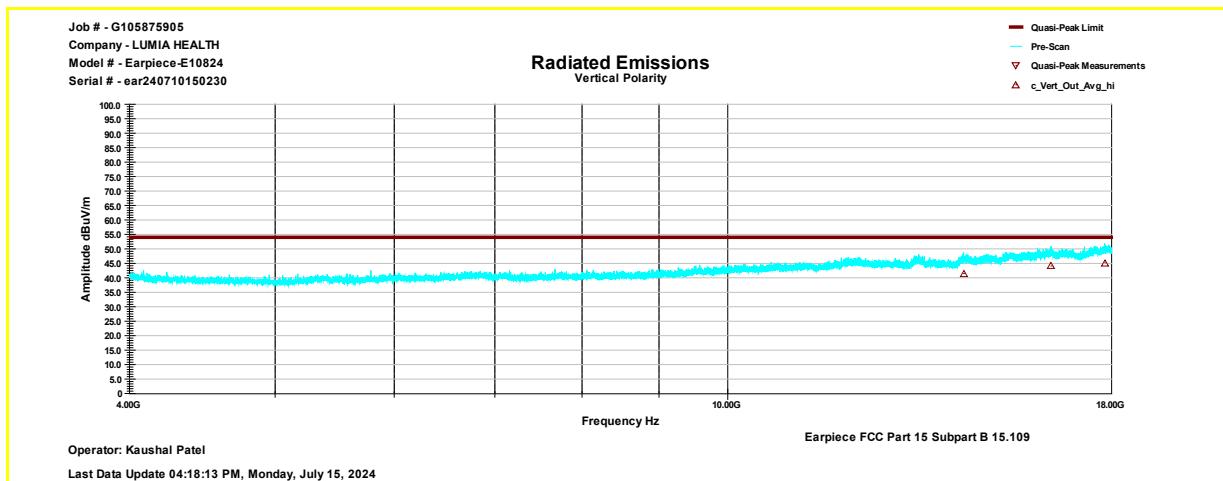


Note: Measurements made from 4 GHz to 18GHz had a 2.4-2.5GHz notch filter in place

Frequency (MHz)	Avg@ 3m (dB μ V/m)	Lim. Avg @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
14350.45	40.3	54	-13.6	150	38	Horizontal	10.7
16407.45	44.1	54	-9.9	100	91	Horizontal	15.8
17811.45	43.5	54	-10.4	244	71	Horizontal	18.3

Note: Correction = AF + CF - Preamp

Radiated Emissions 4000 MHz - 18000 MHz Vertical Antenna Polarization

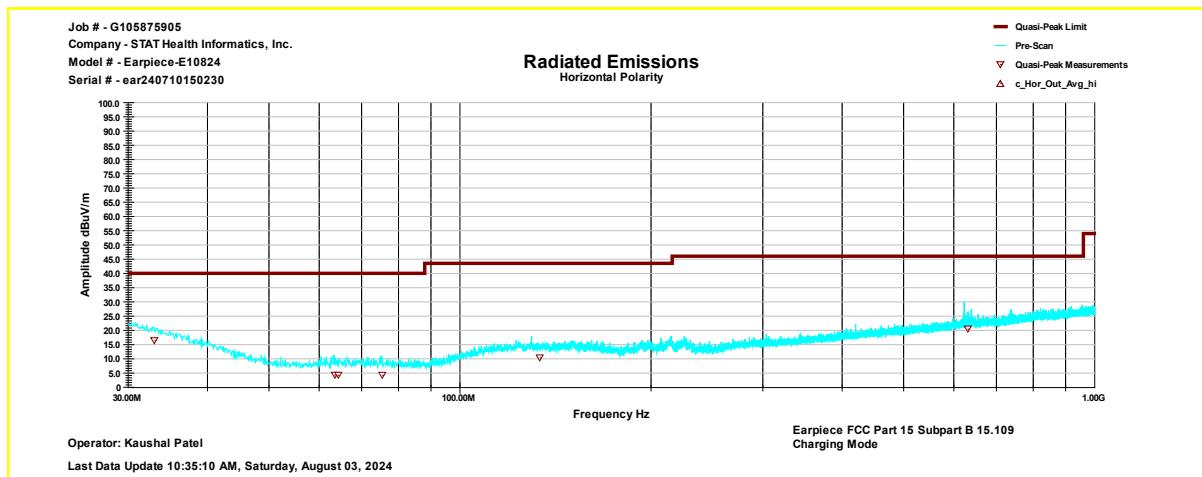


Note: Measurements made from 4 GHz to 18GHz had a 2.4-2.5GHz notch filter in place

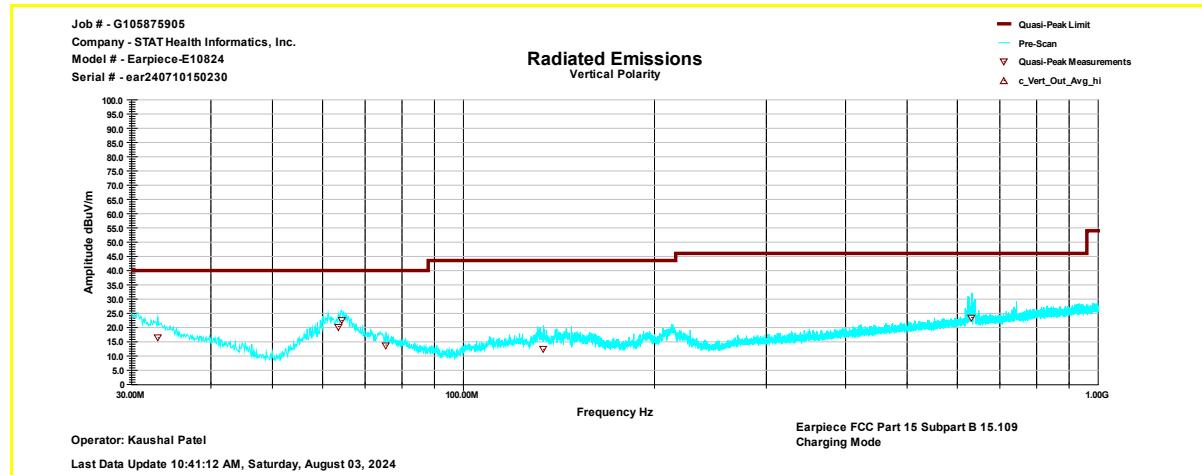
Frequency (MHz)	Avg@ 3m (dB μ V/m)	Lim. Avg @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
14350.55	41.4	54	-12.6	400	128	Vertical	2.891
16407.45	44.1	54	-9.9	253	237	Vertical	5.306
17811.55	45.1	54	-8.8	218	66	Vertical	7.785

Note: Correction = AF + CF - Preamp

Charging Mode

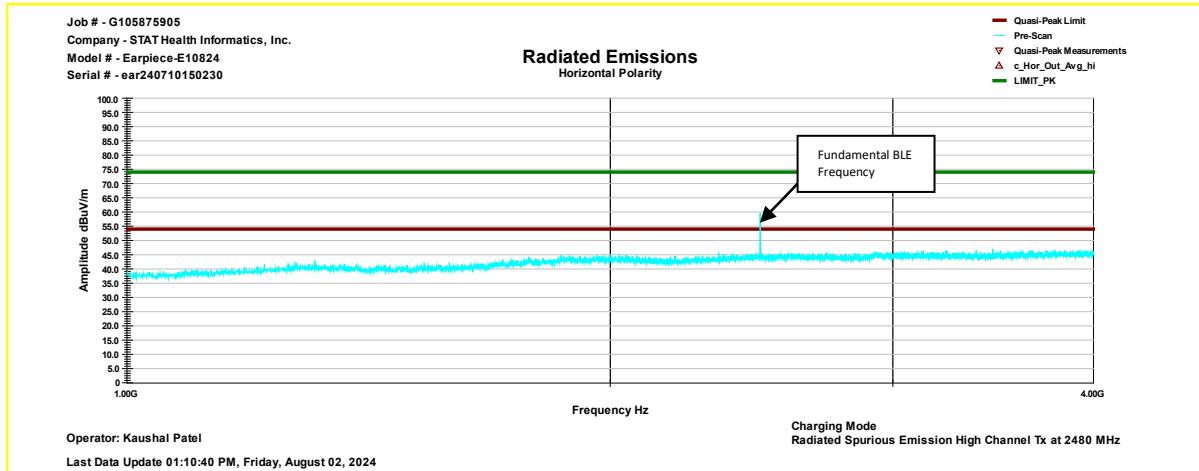
Test Result Radiated Emission 30 MHz-1000 MHz Horizontal Antenna Polarization


Frequency (MHz)	QPeak@ 3m (dB μ V/m)	Lim. QPeak @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
33.05	16.5	40	-23.5	350	76	Horizontal	-10.1
63.45	4.3	40	-35.7	110	254	Horizontal	-21.9
64.25	4.2	40	-35.8	267	149	Horizontal	-21.8
75.55	4.2	40	-35.8	239	59	Horizontal	-21.7
133.65	10.4	43.5	-33.2	168	147	Horizontal	-16.2

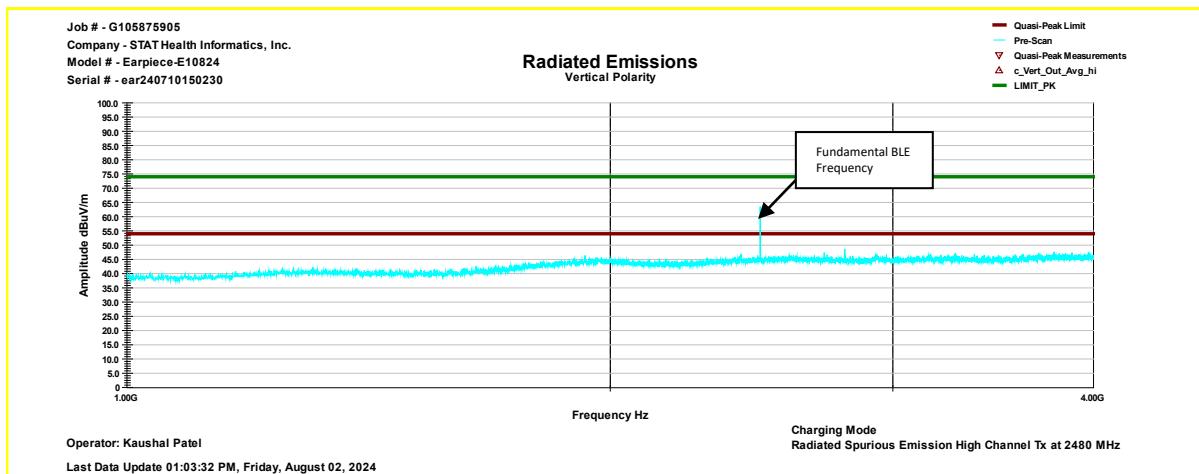
Test Result Radiated Emission 30 MHz-1000 MHz Horizontal Antenna Polarization


Frequency (MHz)	QPeak@ 3m (dB μ V/m)	Lim. QPeak @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
33.02	16.4	40	-23.6	149	202	Vertical	-10.1
63.48	20.3	40	-19.7	127	169	Vertical	-21.9
64.32	22.5	40	-17.5	100	273	Vertical	-21.8
75.46	13.8	40	-26.2	100	264	Vertical	-21.7
133.71	12.3	43.5	-31.2	110	190	Vertical	-16.2
631.89	23.6	46	-22.5	110	25	Vertical	-7.3

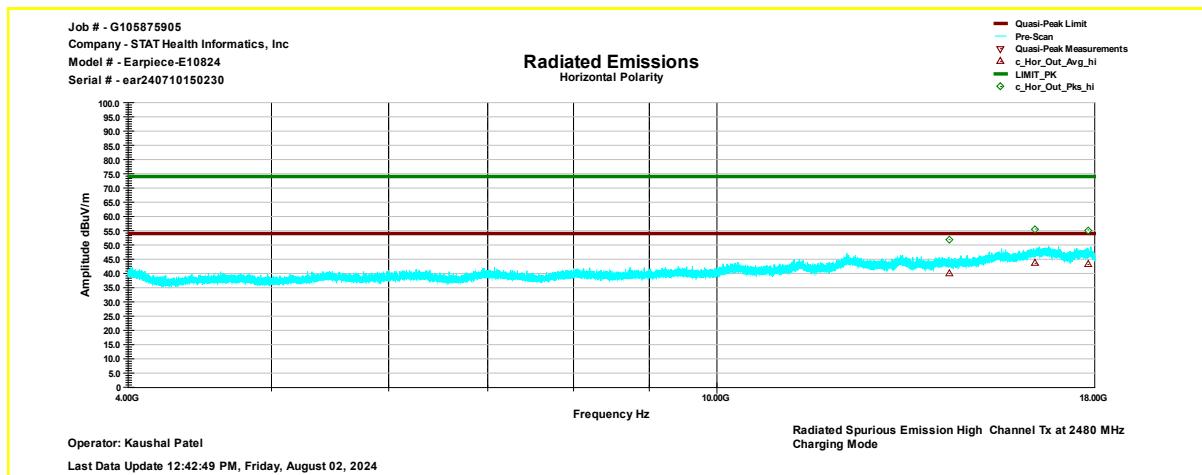
Radiated Emissions 1000 MHz - 4000 MHz Horizontal Antenna Polarization



Radiated Emissions 1000 MHz - 4000 MHz Vertical Antenna Polarization



Radiated Emissions 4000 MHz - 18000 MHz Horizontal Antenna Polarization

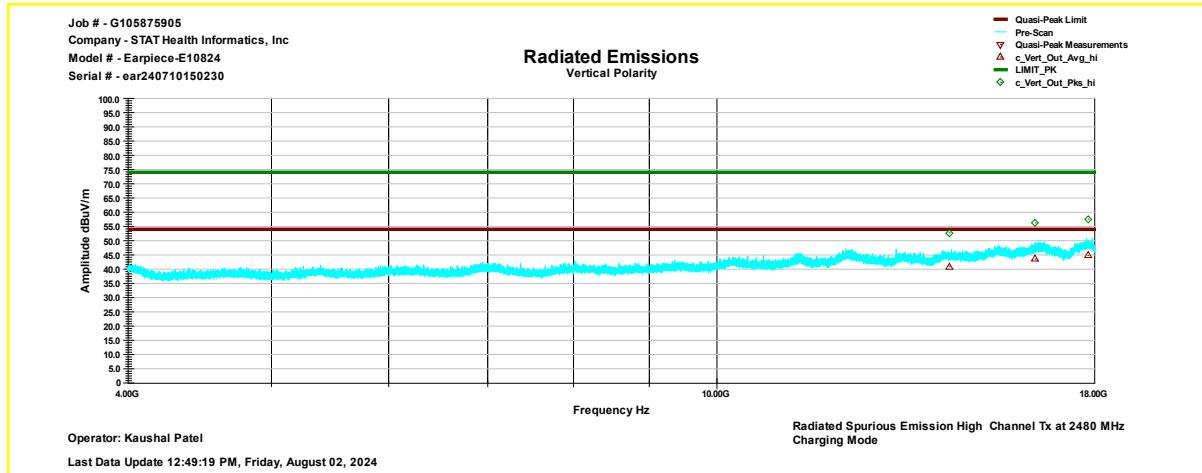


Note: Measurements made from 4 GHz to 18GHz had a 2.4-2.5GHz notch filter in place

Frequency (MHz)	Avg@ 3m (dB μ V/m)	Lim. Avg @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
14350.45	40	54	-14	323	286	Horizontal	10.7
16407.45	43.5	54	-10.4	399	193	Horizontal	15.8
17811.45	43.1	54	-10.8	243	286	Horizontal	18.3

Note: Correction = AF + CF - Preamp

Radiated Emissions 4000 MHz - 18000 MHz Vertical Antenna Polarization



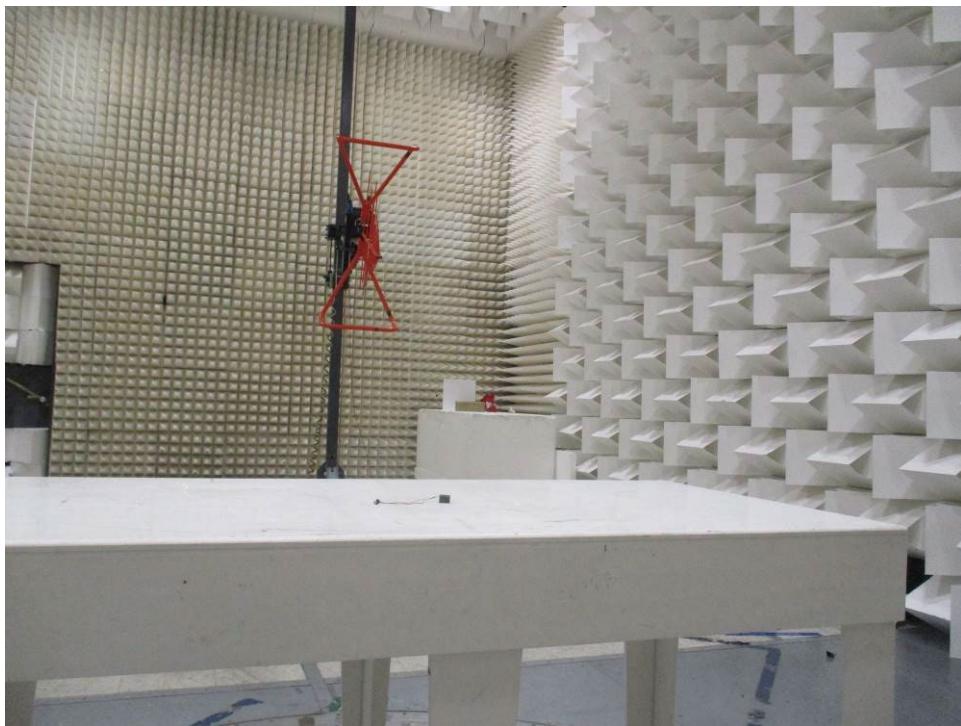
Note: Measurements made from 4 GHz to 18GHz had a 2.4-2.5GHz notch filter in place

Frequency (MHz)	Avg@ 3m (dB μ V/m)	Lim. Avg @3m (dB μ V/m)	Margin (dB)	Height (cm)	Angle (°)	Comment	Correction (dB)
14350.55	41	54	-13	180	53	Vertical	2.891
16407.45	43.5	54	-10.4	289	171	Vertical	5.306
17811.55	44.7	54	-9.2	317	338	Vertical	7.785

Note: Correction = AF + CF - Preamp

4.6.4 Test Setup Configuration

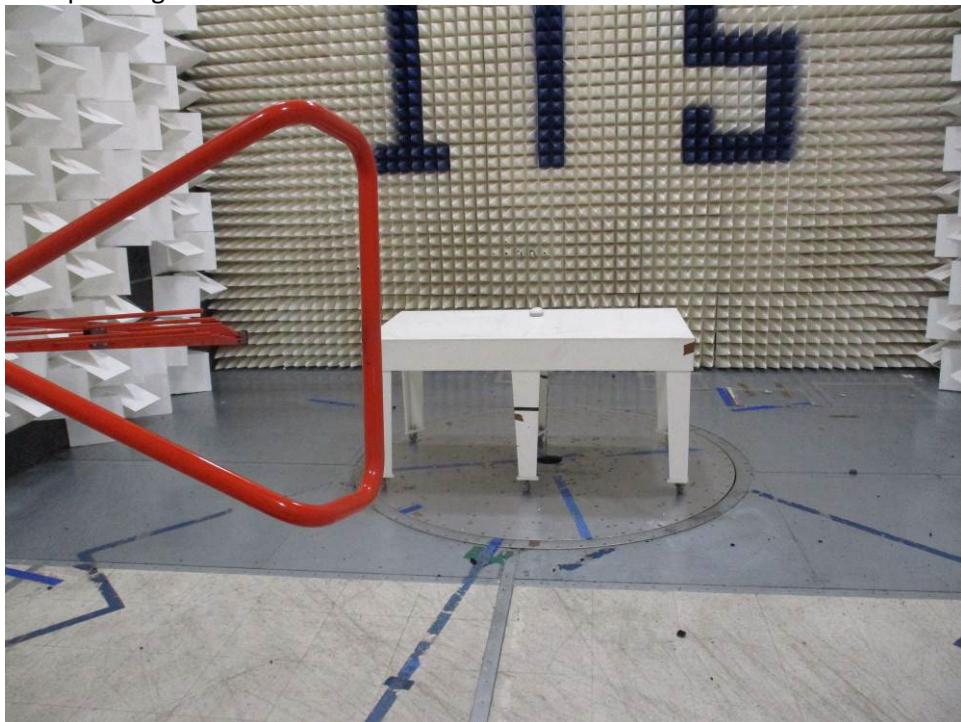
The following photographs show the testing configurations used.



4.6.4 Test Setup Configuration



4.6.4 Test Setup Configuration



4.6.4 Test Setup Configuration



4.7 AC Line Conducted Emission

FCC: 15.207, FCC15.107;

4.7.1 Requirement

Frequency Band MHz	Class B Limit dB(µV)		Class A Limit dB(µV)	
	Quasi-Peak	Average	Quasi-Peak	Average
0.15-0.50	66 to 56 *	56 to 46 *	79	66
0.50-5.00	56	46	73	60
5.00-30.00	60	50	73	60

*Note: *Decreases linearly with the logarithm of the frequency. At the transition frequency the lower limit applies.*

4.7.2 Procedure

Measurements are carried out using quasi-peak and average detector receivers in accordance with CISPR 16. An AMN is required to provide a defined impedance at high frequencies across the power feed at the point of measurement of terminal voltage and also to provide isolation of the circuit under test from the ambient noise on the power lines. An AMN as defined in CISPR 16 shall be used.

The EUT is located so that the distance between the boundary of the EUT and the closest surface of the AMN is 0.8m.

Where a flexible mains cord is provided by the manufacturer, this shall be 1m long or if in excess of 1m, the excess cable is folded back and forth as far as possible so as to form a bundle not exceeding 0.4m in length.

The EUT is arranged and connected with cables terminated in accordance with the product specification.

Conducted disturbance is measured between the phase lead and the reference ground, and between the neutral lead and the reference ground. Both measured values are reported.

The EUT, where intended for tabletop use, is placed on a table whose top is 0.8m above the ground plane. A vertical, metal reference plane is placed 0.4m from the EUT. The vertical metal reference-plane is at least 2m by 2m. The EUT shall be kept at least 0.8m from any other metal surface or other ground plane not being part of the EUT. The table is constructed of non-conductive materials. Its dimensions are 1m by 1.5m but may be extended for larger EUT.

Floor standing EUT are placed on a horizontal metal ground plane and isolated from the ground plane by resting on an insulating material. The metal ground plane extends at least 0.5m beyond the boundaries of the EUT and has minimum dimensions of 2m by 2m.

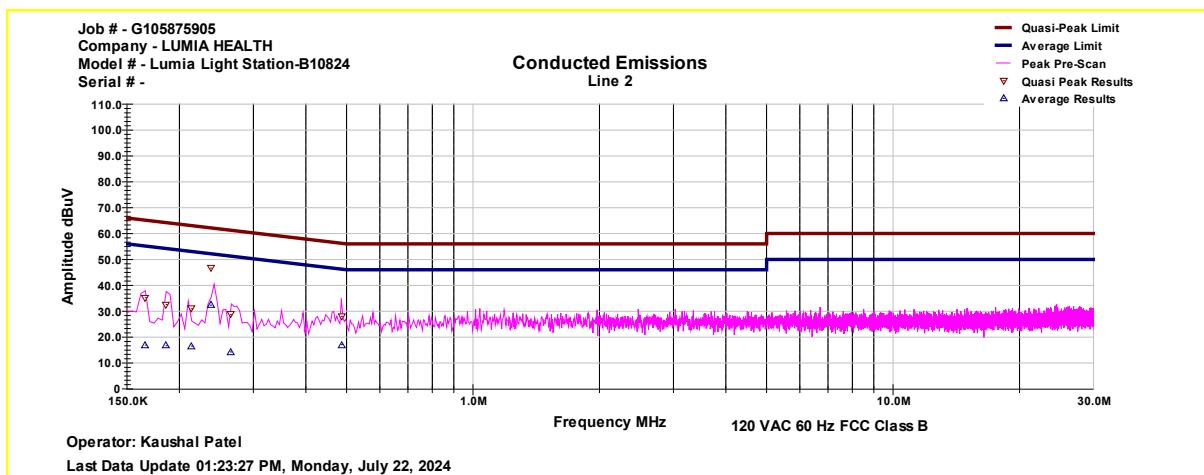
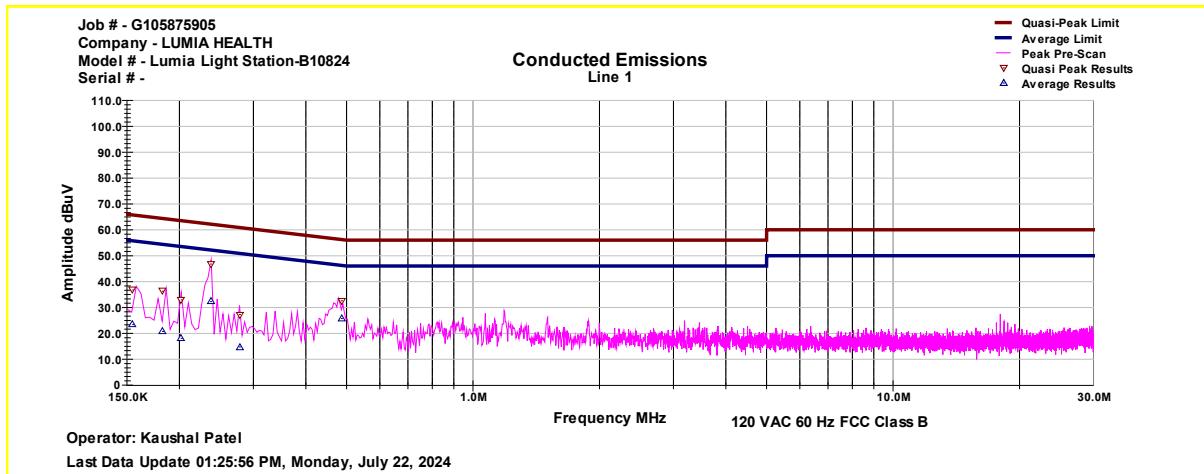
AC mains conducted emissions measurements were performed according to the procedures in ANSI C63.10: 2020. EUT was placed in transmission mode then tested for conducted emissions per 15.207 to ensure the device complies with 15.207.

Tested By	Test Date	Results
Kaushal Patel	July 22, 2024	Complies

4.7.3 Test Result

Model E10824

Conducted Disturbances, 120VAC 60 Hz

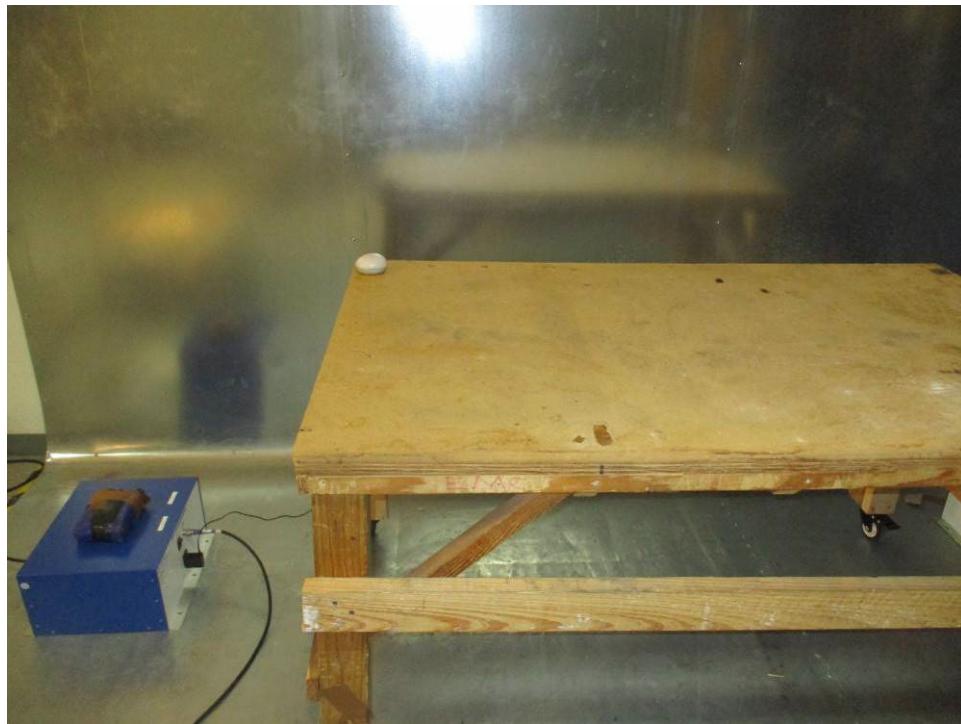


Frequency (MHz)	QP Level (dB μ V)	QP Limit (dB μ V)	Margin (dB)	Line	Corrector(dB)
0.15	36.719	65.735	-29.016	Line 1	10.208
0.18	36.266	64.38	-28.114	Line 1	10.191
0.2	32.951	63.529	-30.578	Line 1	10.182
0.24	46.772	62.191	-15.42	Line 1	10.177
0.28	27.288	60.876	-33.588	Line 1	10.173
0.49	32.581	56.237	-23.656	Line 1	10.17
0.17	35.231	65.16	-29.93	Line 2	10.16
0.19	32.57	64.21	-31.64	Line 2	10.15
0.21	30.96	63.06	-32.1	Line 2	10.142
0.24	46.661	62.19	-15.53	Line 2	10.144
0.26	28.666	61.28	-32.62	Line 2	10.137
0.49	27.977	56.24	-28.26	Line 2	10.14

Frequency (MHz)	Avg Level (dB μ V)	Avg Limit (dB μ V)	Margin (dB)	Line	Corrector(dB)
0.15	23.386	55.735	-32.349	Line 1	10.208
0.18	20.711	54.38	-33.669	Line 1	10.191
0.2	18.041	53.529	-35.488	Line 1	10.182
0.24	32.256	52.191	-19.935	Line 1	10.177
0.28	14.725	50.876	-36.151	Line 1	10.173
0.49	25.684	46.237	-20.553	Line 1	10.17
0.17	16.92	55.16	-38.24	Line 2	10.16
0.19	16.69	54.21	-37.52	Line 2	10.15
0.21	16.5	53.06	-36.56	Line 2	10.142
0.24	32.33	52.19	-19.86	Line 2	10.144
0.26	14.27	51.28	-37.01	Line 2	10.137
0.49	17.06	46.24	-29.18	Line 2	10.14

Note: The Earpiece Model E10824 battery is being recharged using the Lumia Light station Model B10824. Conducted Disturbance Test Performed on the AC Input Side of Lumia Light Station Model B10824 by putting the Earpiece Model E10824 in it.

4.7.4 Test Setup Configuration



5.0 List of Test Equipment

Measurement equipment used for compliance testing utilized the equipment on the following list:

Equipment	Manufacturer	Model/Type	Asset #	Cal Int	Cal Due
EMI Test Receiver	Rohde & Schwarz	ESU26	3729	12	2/1/2025
EMI Test Receiver	Rohde & Schwarz	ESW26	5249	12	9/1/2024
9kHz-30MHz Loop Antenna (Passive)	EMCO	6512	ITS 01573	12	11/30/2024
30MHz-1GHz Bi-Log Antenna	Sunol Sciences Corp.	JB6	3556	12	8/7/2024
1-18GHz Double Ridge Horn Antenna	ETS Lindgren	3117	4387	12	2/5/2025
18 – 26 GHz Double Ridge Guide Antenna	ETS Lindgren	3116C	3696	12	8/3/2024
18-26 GHz Preamp	Miteq Inc.	AMF-6F1800265	967	12	4/16/2025
NOTCH FILTER	MICRO-TRONICS	BRC50702	5028	12	05/21/2025
30 MHz-1 GHz Preamp	Miteq Inc.	AM-3A-000110	3663	12	1/20/2025
1-4 GHz Preamp	Mini-Circuit Lab	ZHL-42	3619	12	8/4/2024
4-18 GHz Preamp	Narda	DBL-0618N615	3623	12	8/3/2024
18 GHz RF Cable	Maury Microwave	SF-N-MM-275-LP	5620	12	8/9/2024
18 GHz RF Cable	Maury Microwave	SF-N-MM-78-LP	5613	12	8/9/2024
40 GHz RF Cable	Megaphase	GC12-K1K1-236	5472	12	2/26/2025
LISN	Com-Power	LI-220A	5890	12	4/30/2025
Transient Limiter	Hewlett Packard	11947A	3542	12	2/28/2025

No Calibration required

Software used for emission compliance testing utilized the following:

Name	Manufacturer	Version	Template/Profile
TILE!	ETS Lindgren	7.5.5.6	Master Radiated Emissions
TILE!	ETS Lindgren	7.5.5.6	Master Band Edge Emissions
TILE!	ETS Lindgren	7.5.5.6	Master Unwanted Conducted Emissions
TILE!	ETS Lindgren	7.5.5.6	Master Conducted Emission

6.0 Document History

Revision/ Job Number	Writer Initials	Reviewers Initials	Date	Change
1.0/ G105875905	KP	ML	August 05, 2024	Original document

END OF REPORT