,

APPENDIX A

WIR121164

FCC247 (BLE) Data

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Report Status Sheet

Revision	Report Date	Reason for Revision
∅	November 1, 2022	Initial Issue
1	July 5, 2023	Updates per TCB Comments

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§ 15.203 Antenna Requirement

***No data or photographs for this section.**

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§ 15.207(a) Conducted Emissions Limits

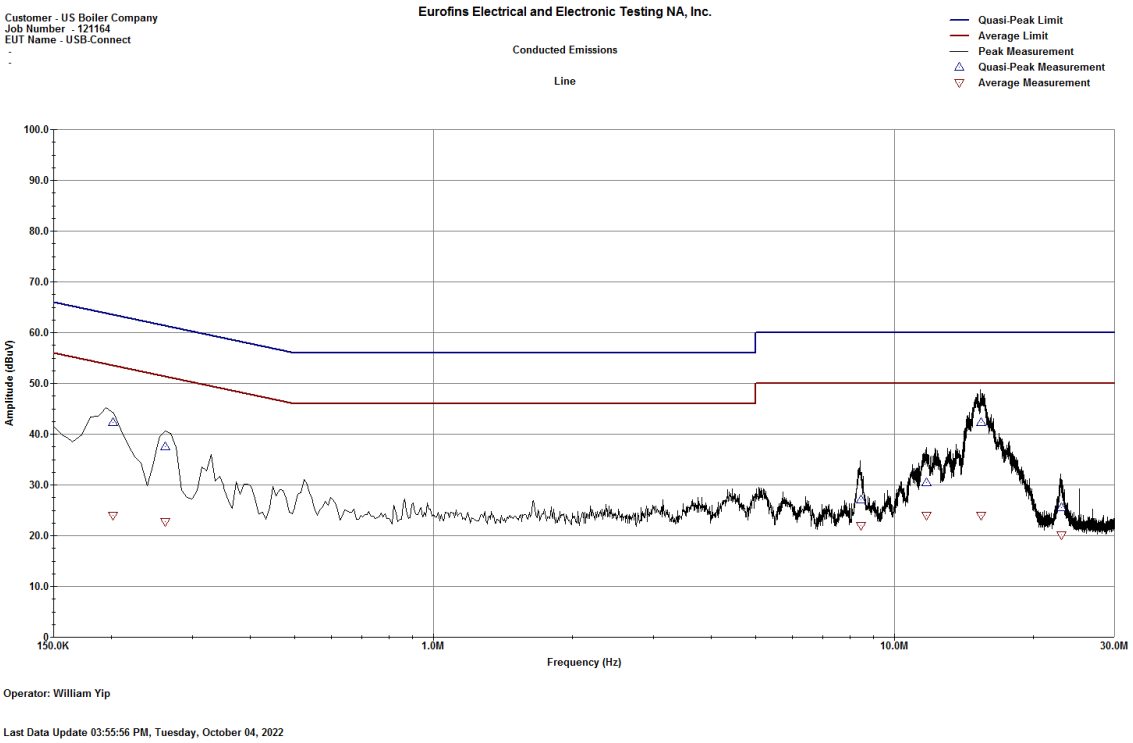

Figure 1. CEV Line

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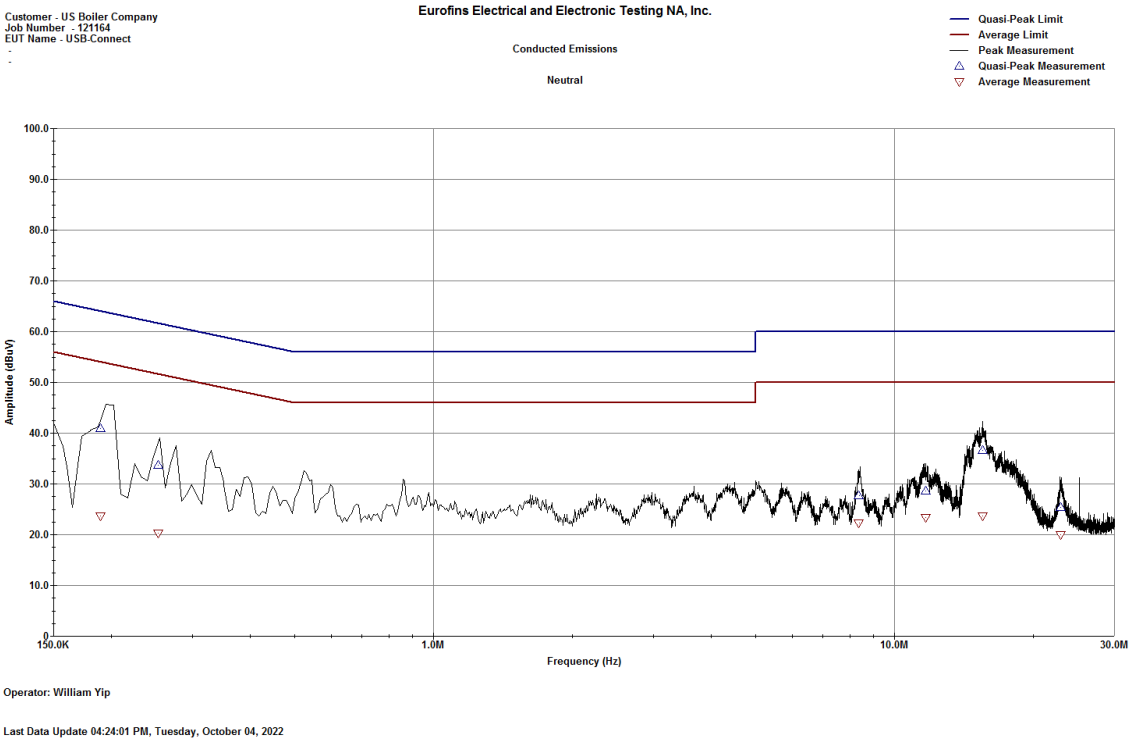
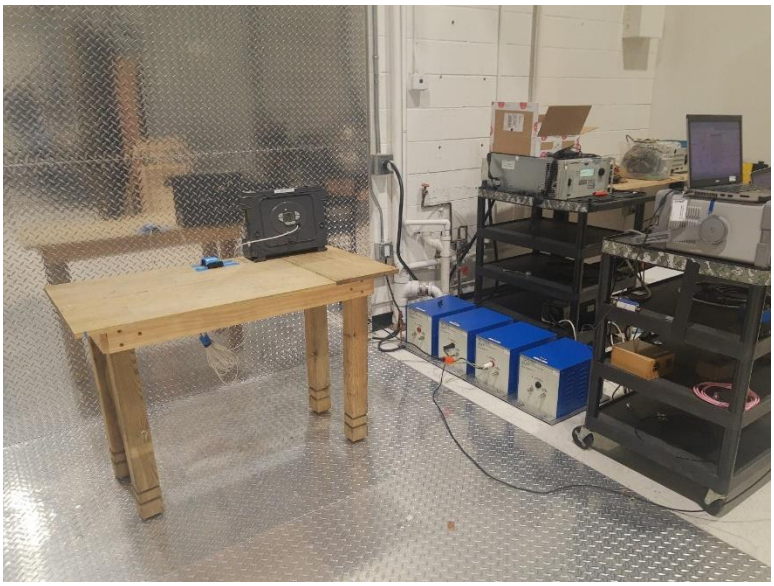


Figure 2. CEV Neutral



Photograph 1. CEV Test Setup

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§ 15.247(a)(2) 6 dB Bandwidth

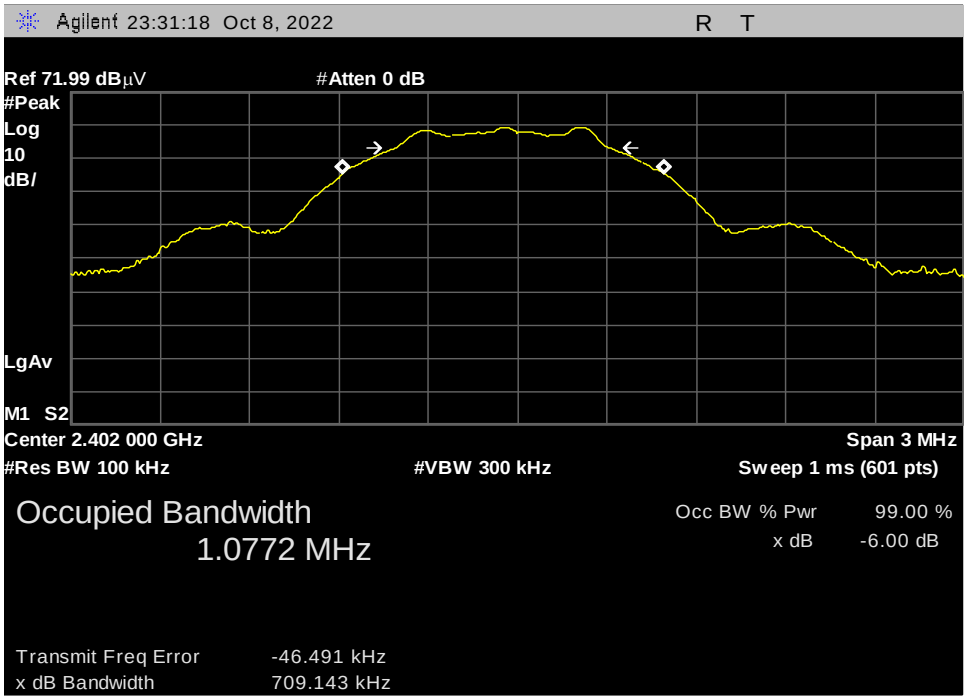

Figure 3. 6dB BW_2402MHz_1Mbps

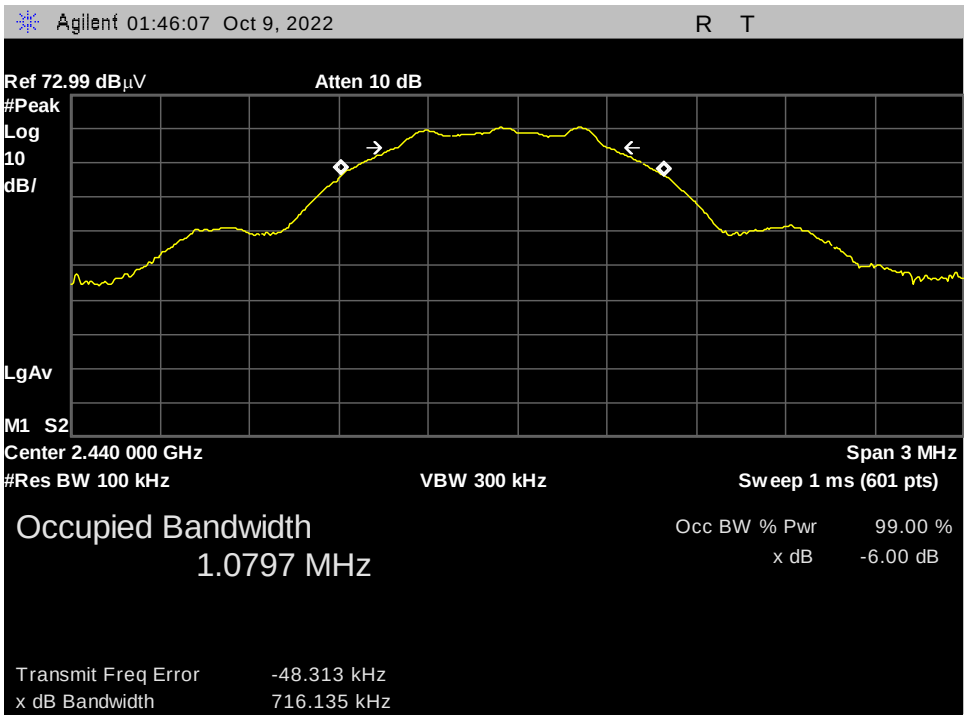

Figure 4. 6dB BW_2440MHz_1Mbps

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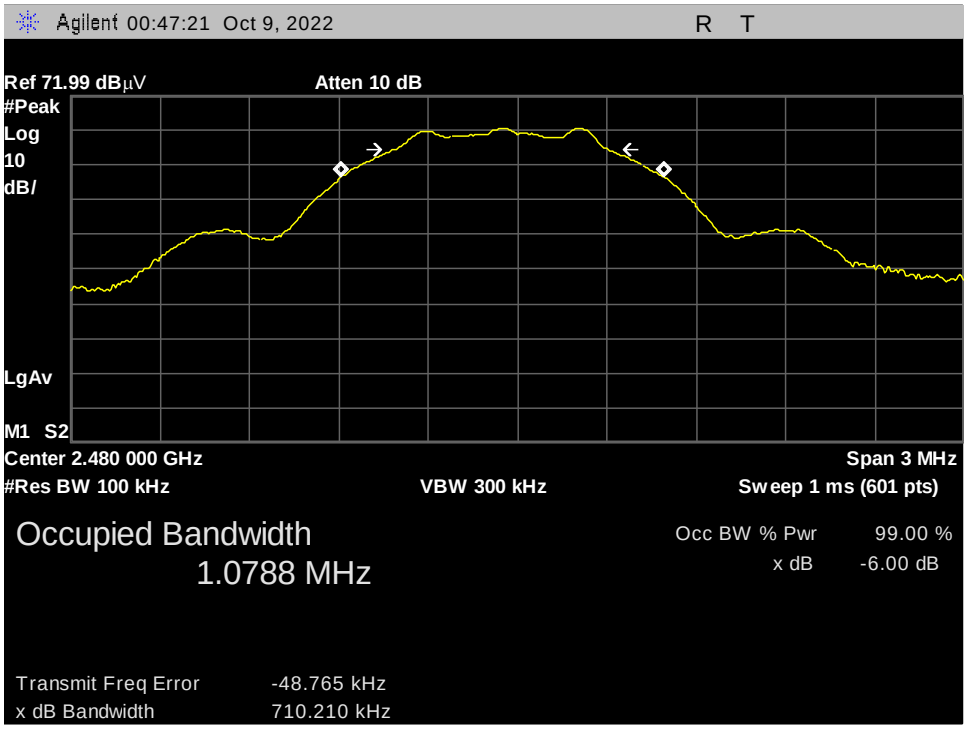

Figure 5. 6dB BW_2480MHz_1Mbps

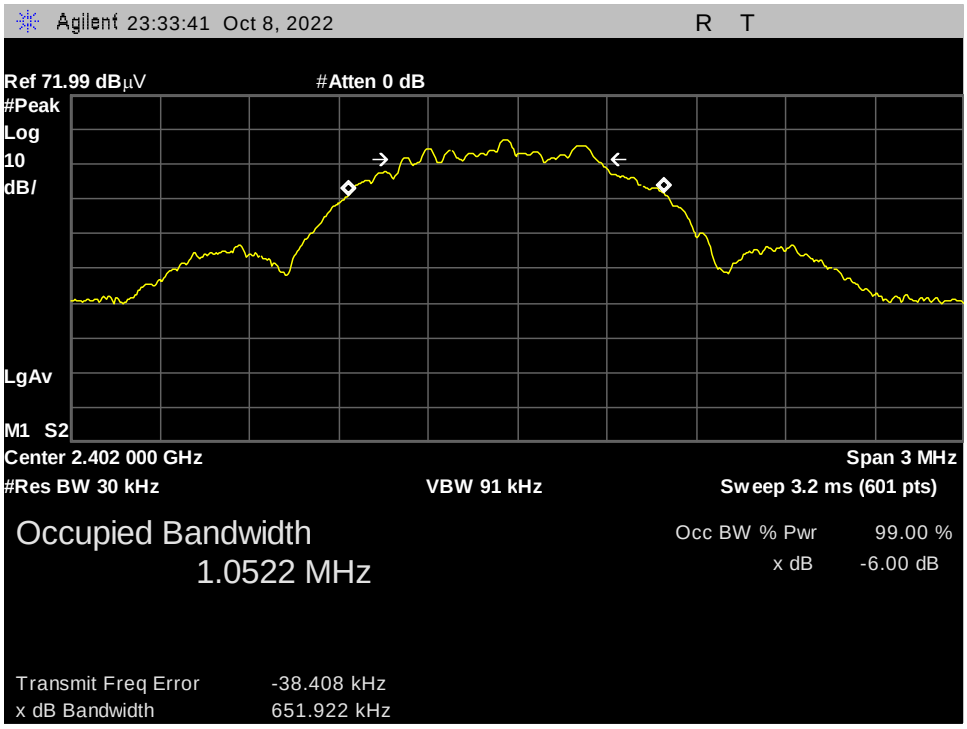

Figure 6. 99% BW_2402MHz_1Mbps

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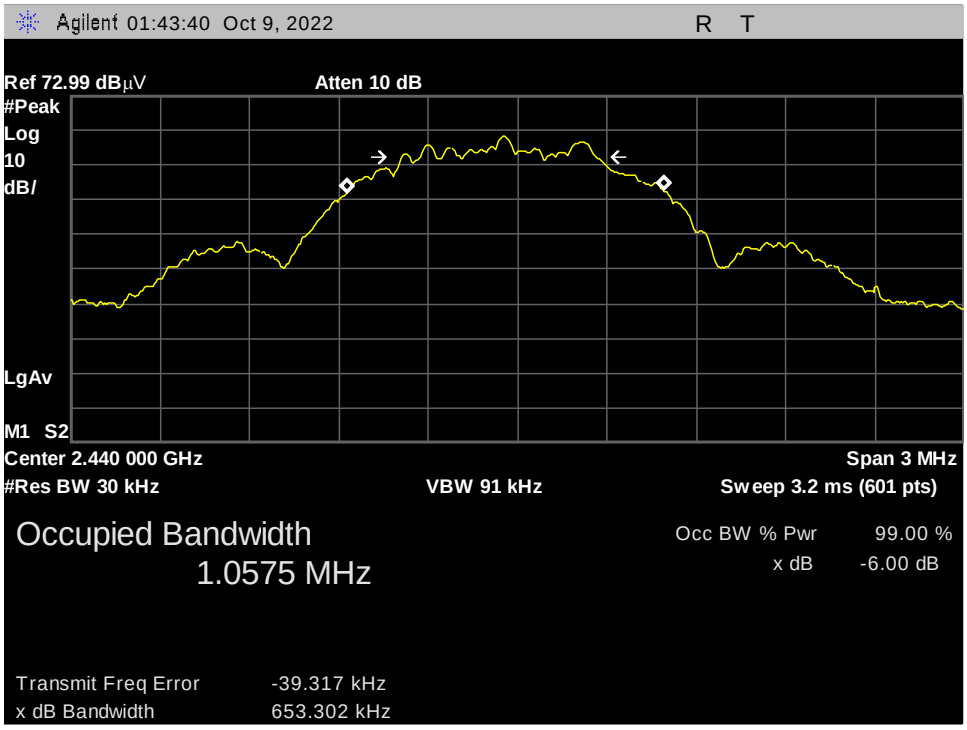

Figure 7. 99% BW_2440MHz_1Mbps

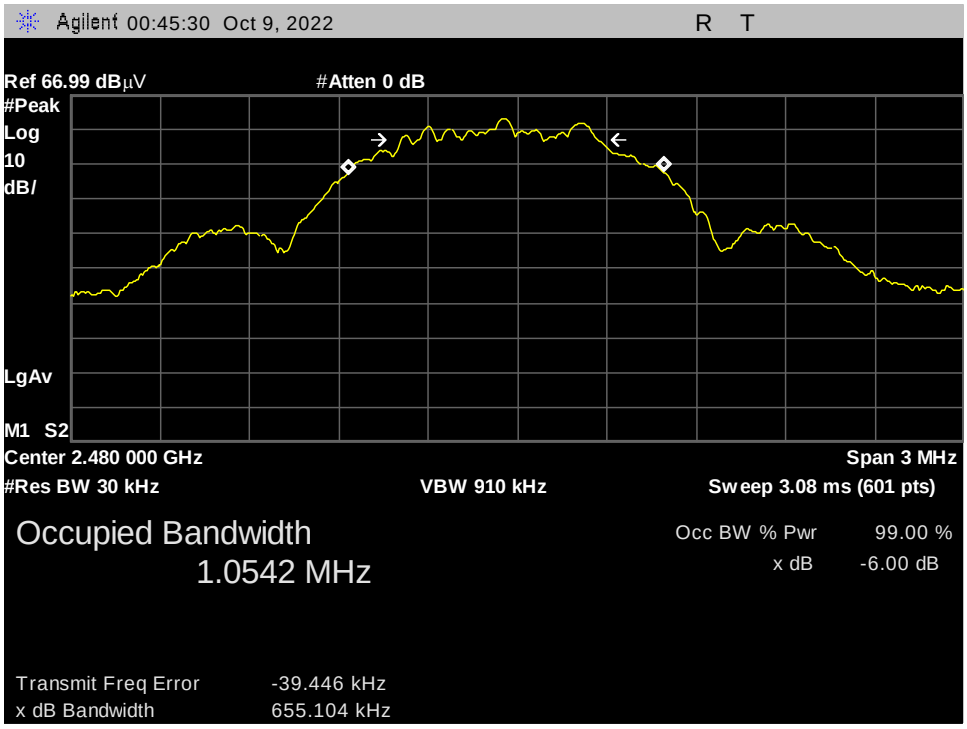

Figure 8. 99% BW_2480MHz_1Mbps

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§ 15.247(b) Peak Power Output

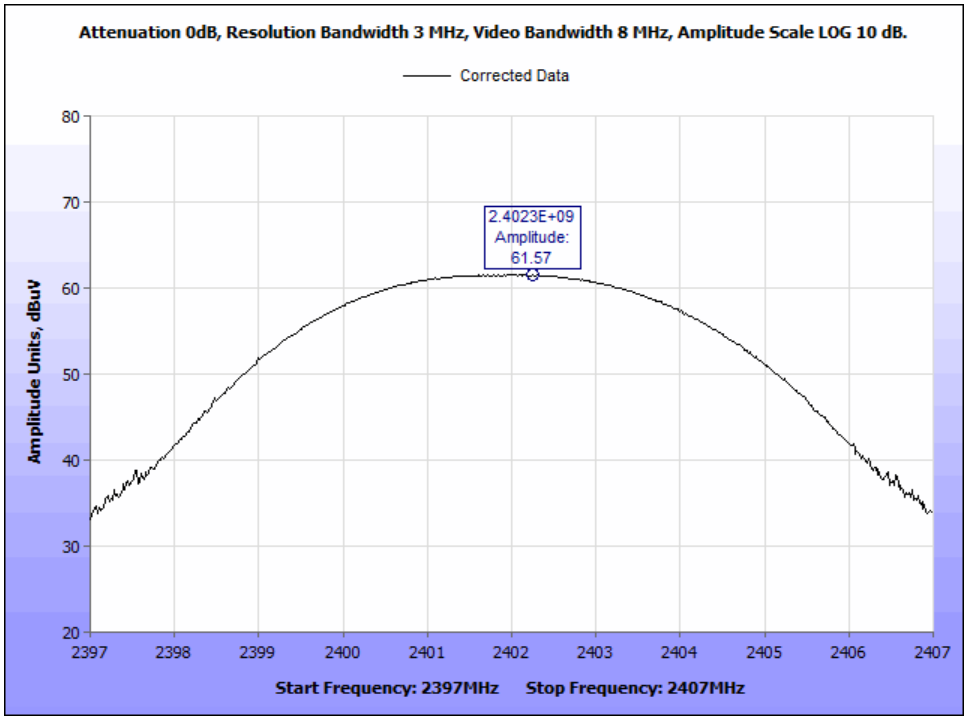

Figure 9. Uncorrected FE_Low Channel_2402MHz

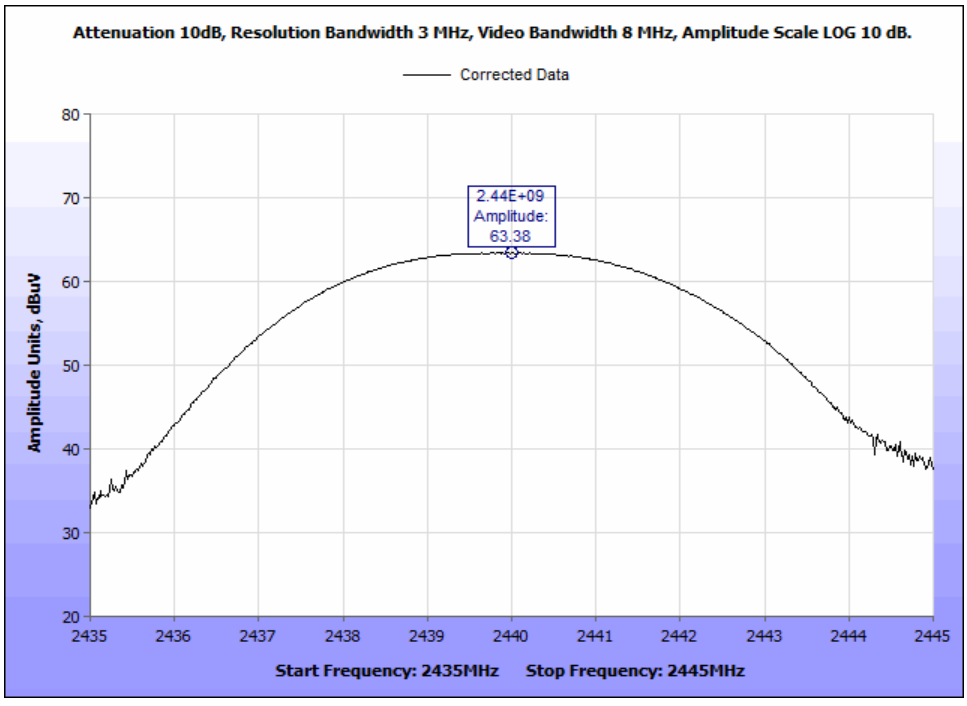

Figure 10. Uncorrected FE_Mid Channel_2440MHz

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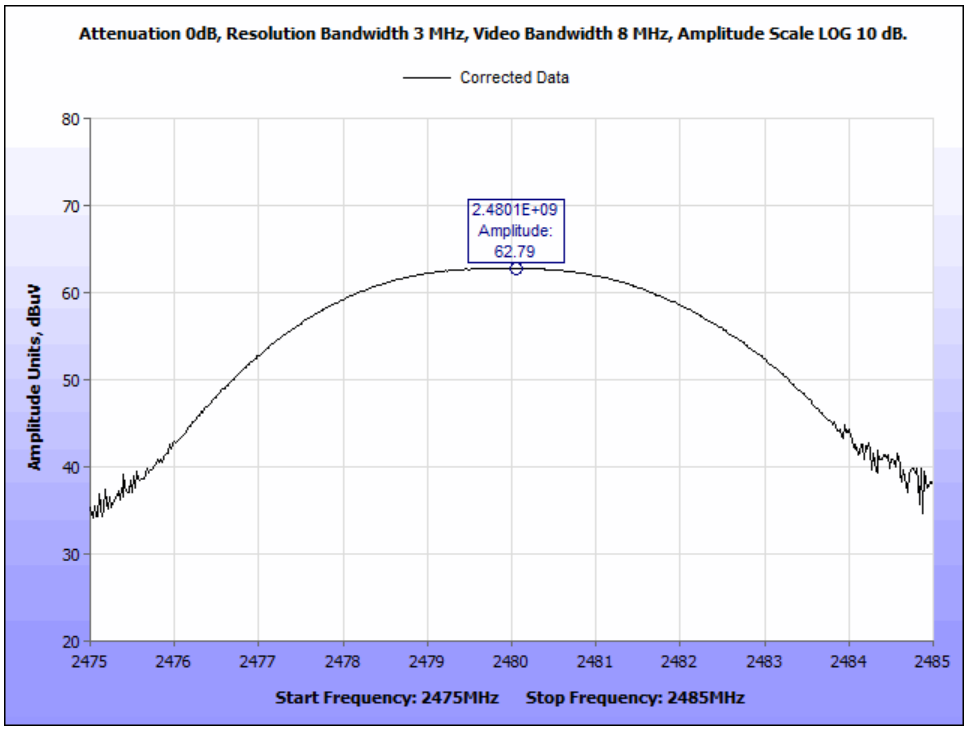
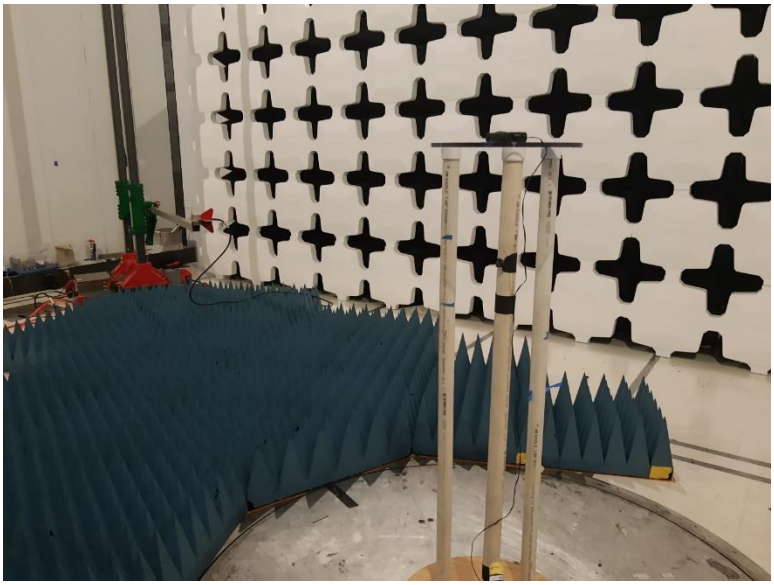


Figure 11. Uncorrected FE_High Channel_2480MHz



Photograph 2. Radiated Emissions - Fundamental Emission Test Setup

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§ 15.209 Radiated Spurious Emissions Requirements and Band Edge

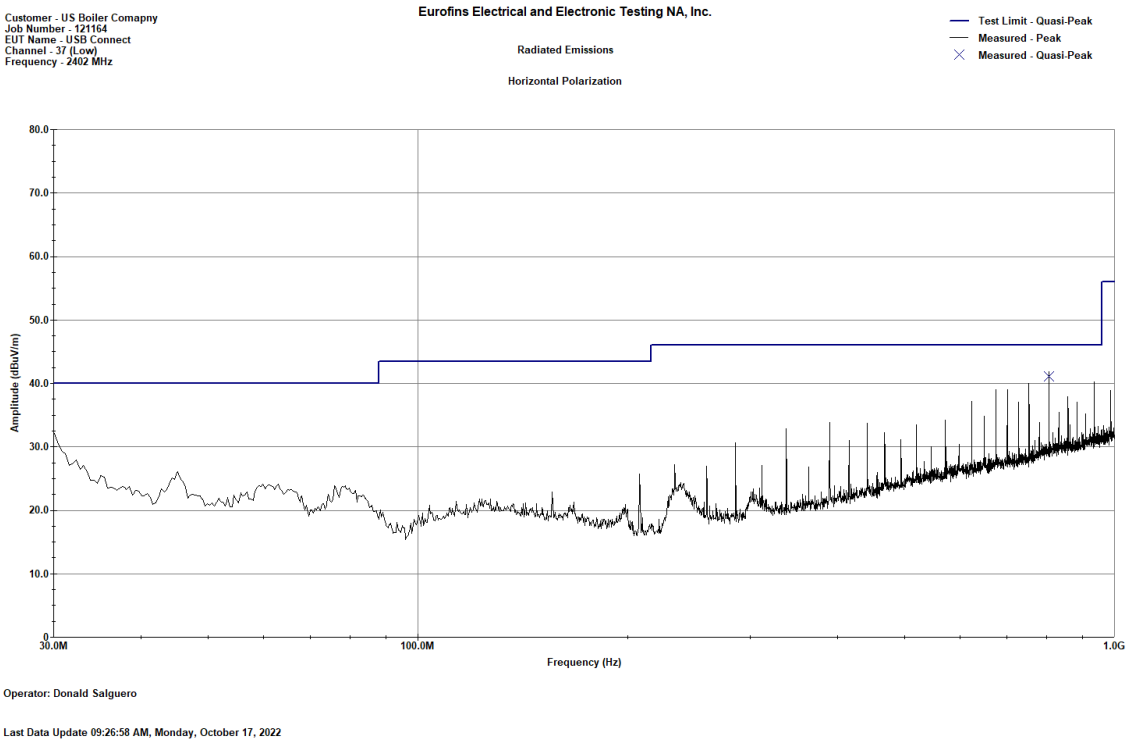

Figure 12. Radiated Emissions, 30 MHz to 1 GHz_Low Channel_1Mbps_H

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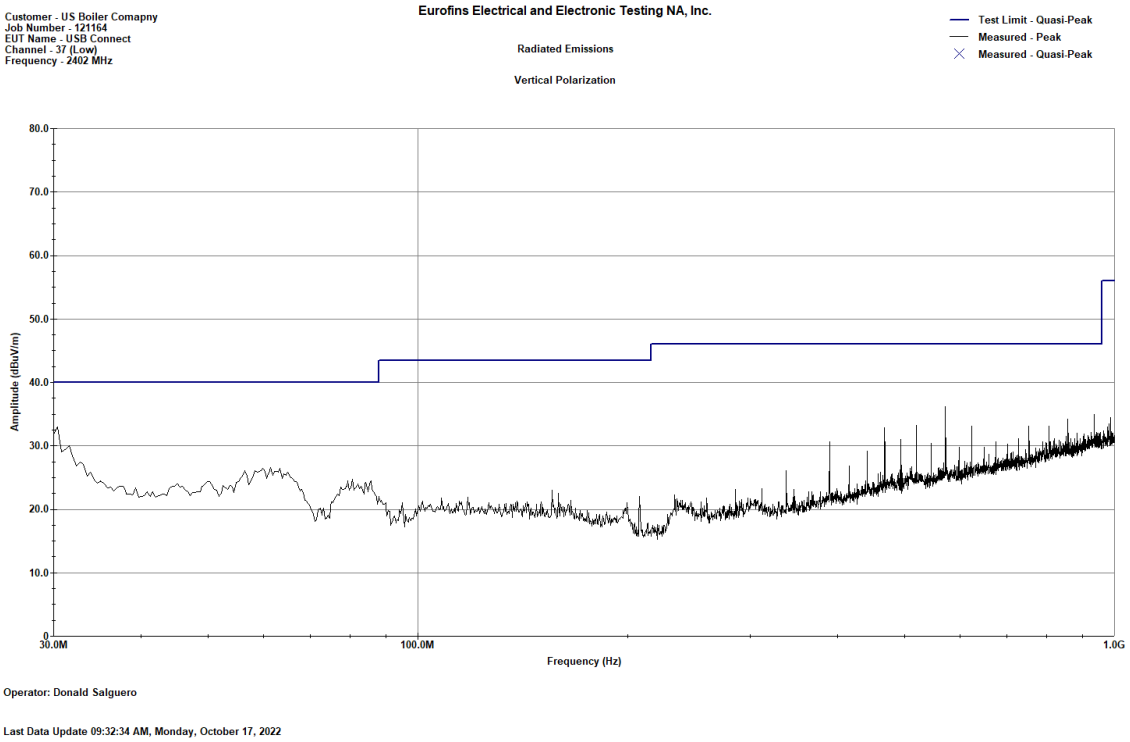

Figure 13. Radiated Emissions, 30 MHz to 1 GHz_Low Channel_1Mbps_V

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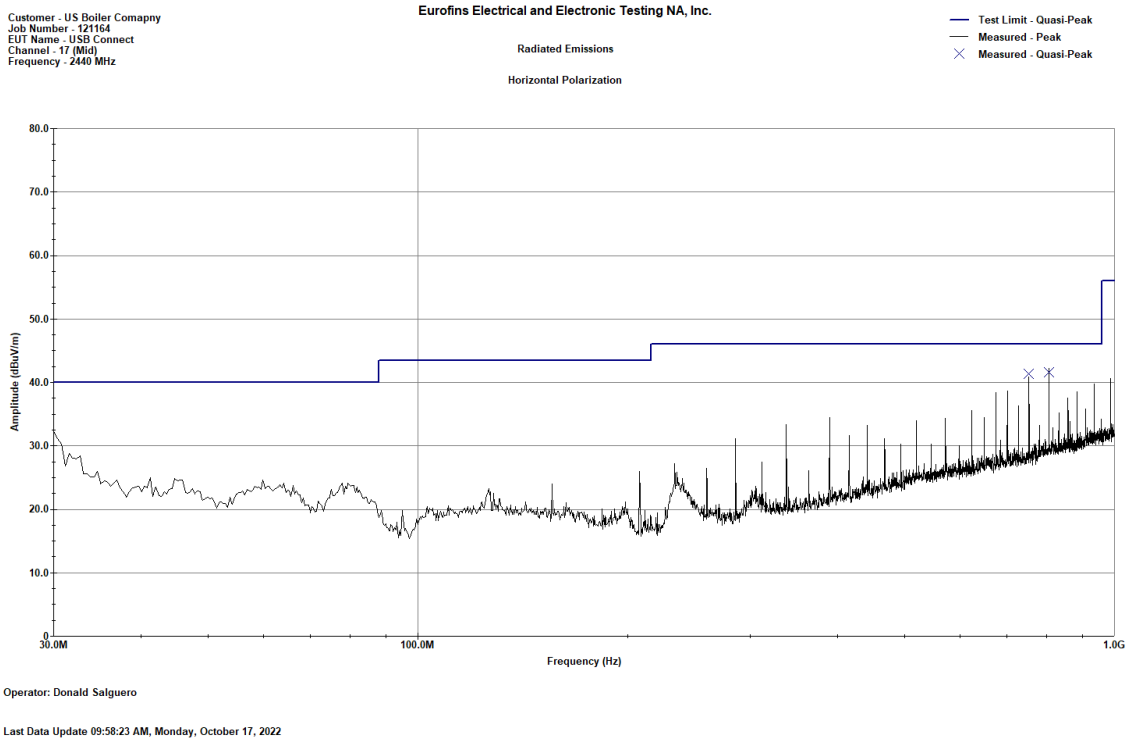

Figure 14. Radiated Emissions, 30 MHz to 1 GHz_Mid Channel_1Mbps_H

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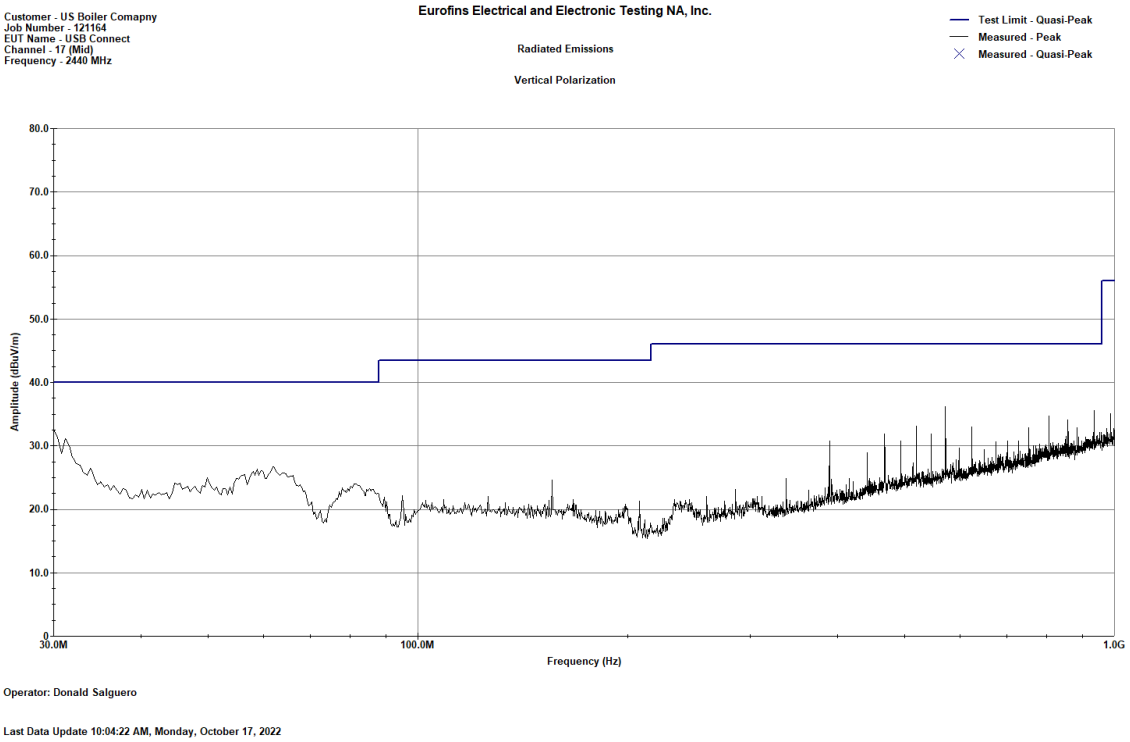

Figure 15. Radiated Emissions, 30 MHz to 1 GHz_Mid Channel_1Mbps_V

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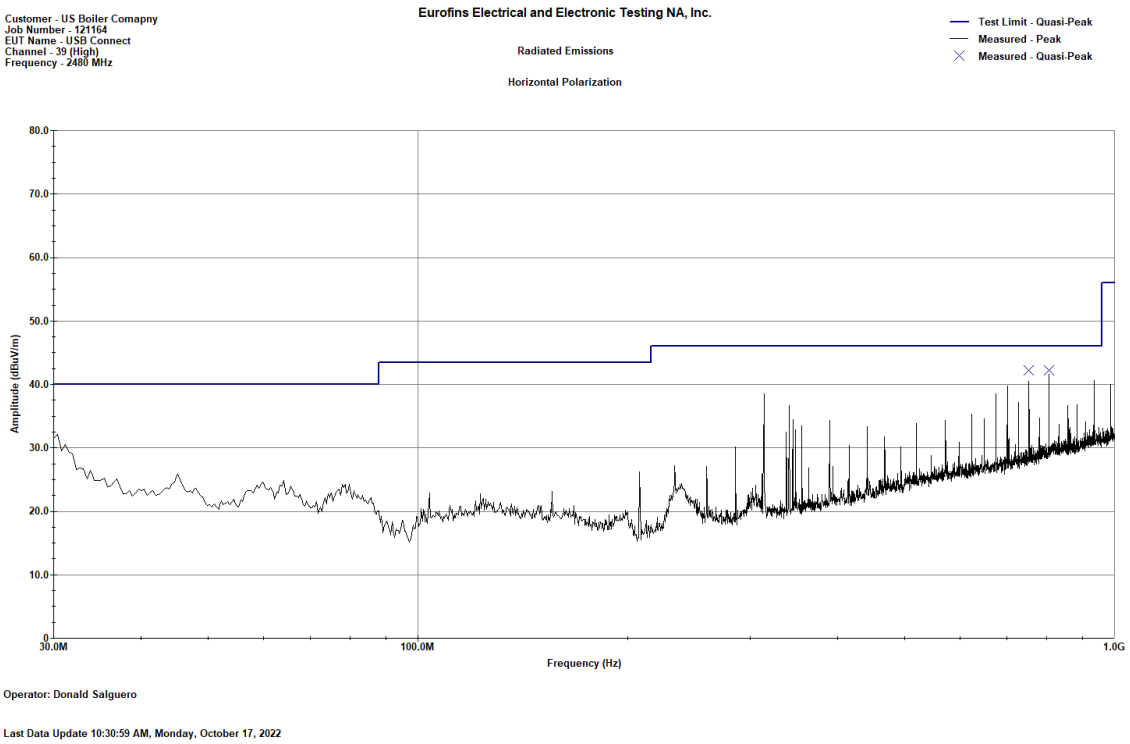

Figure 16. Radiated Emissions, 30 MHz to 1 GHz_High Channel_1Mbps_H

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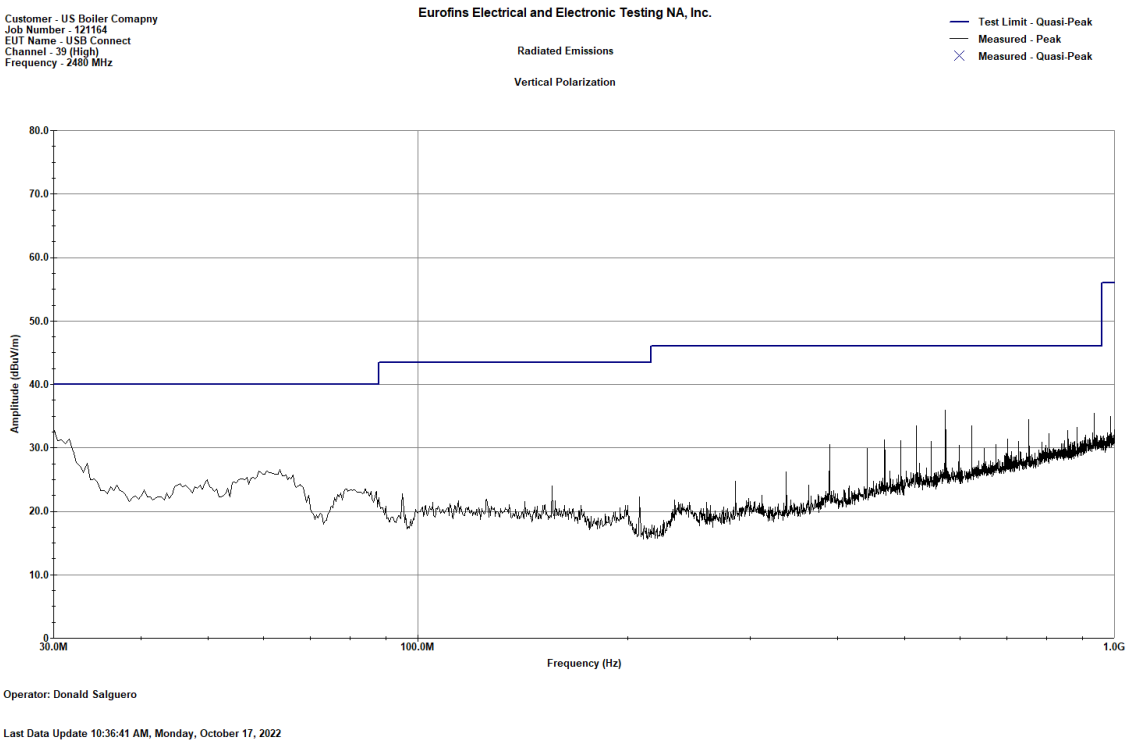

Figure 17. Radiated Emissions, 30 MHz to 1 GHz_High Channel_1Mbps_V

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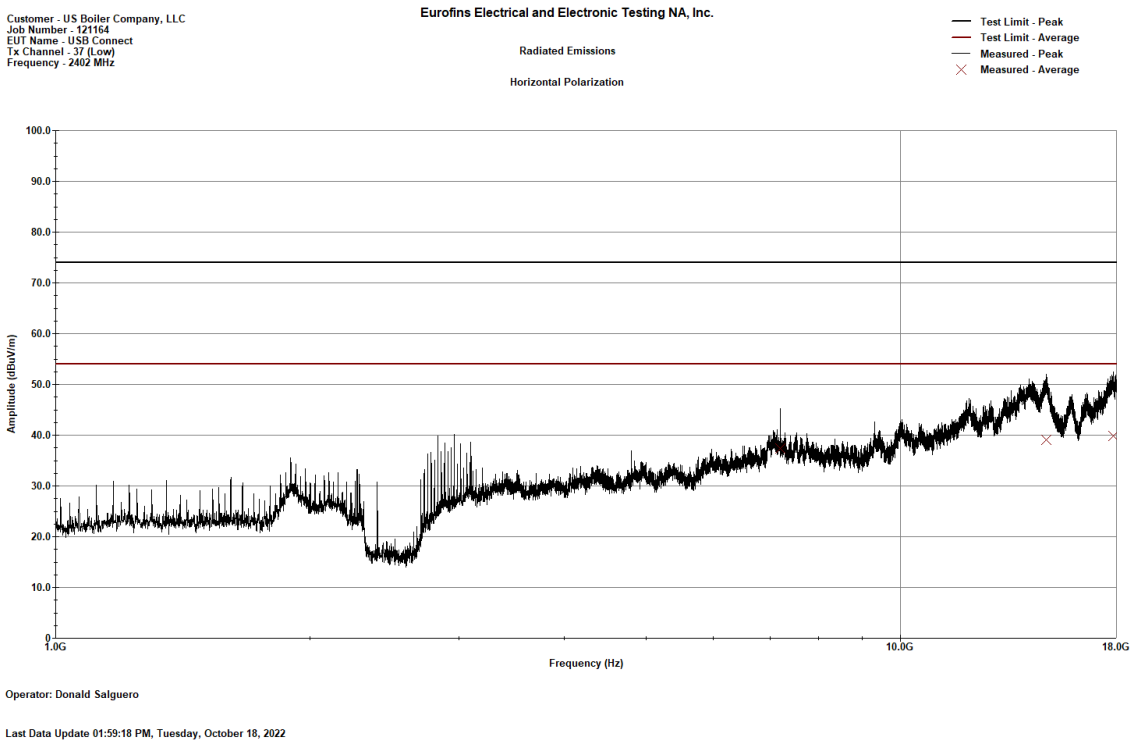

Figure 18. Radiated Emissions, 1-18GHz_Low Channel_1Mbps_H

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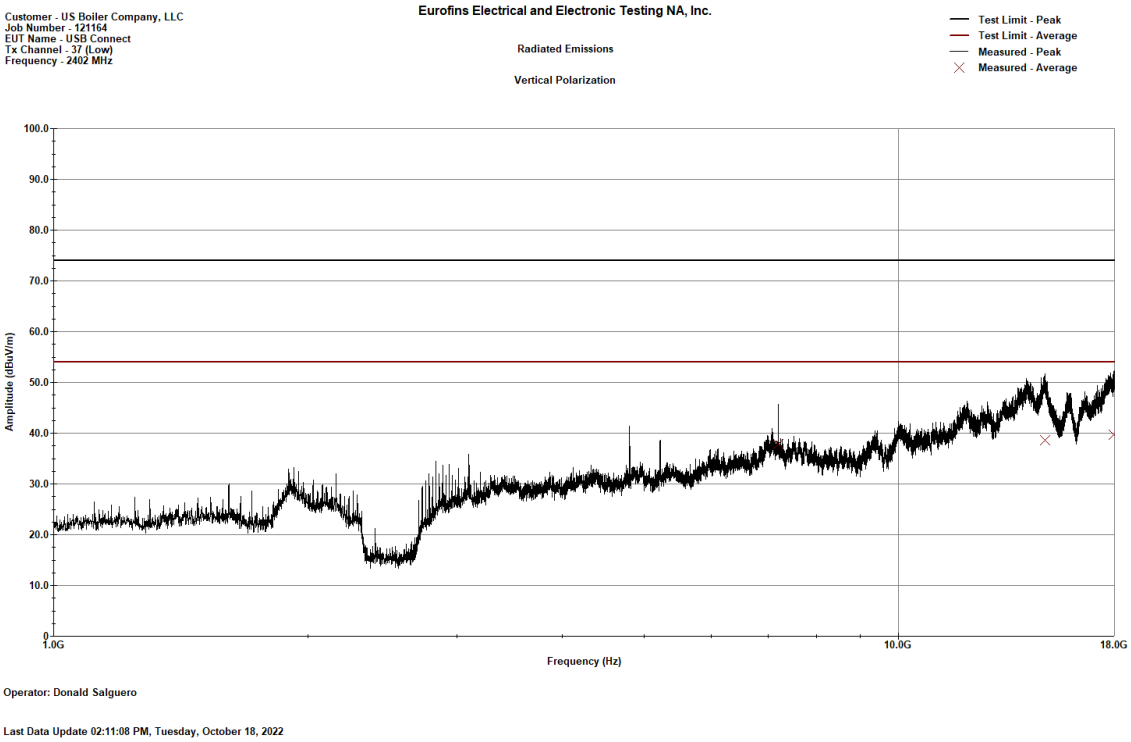

Figure 19. Radiated Emissions, 1-18GHz_Low Channel_1Mbps_V

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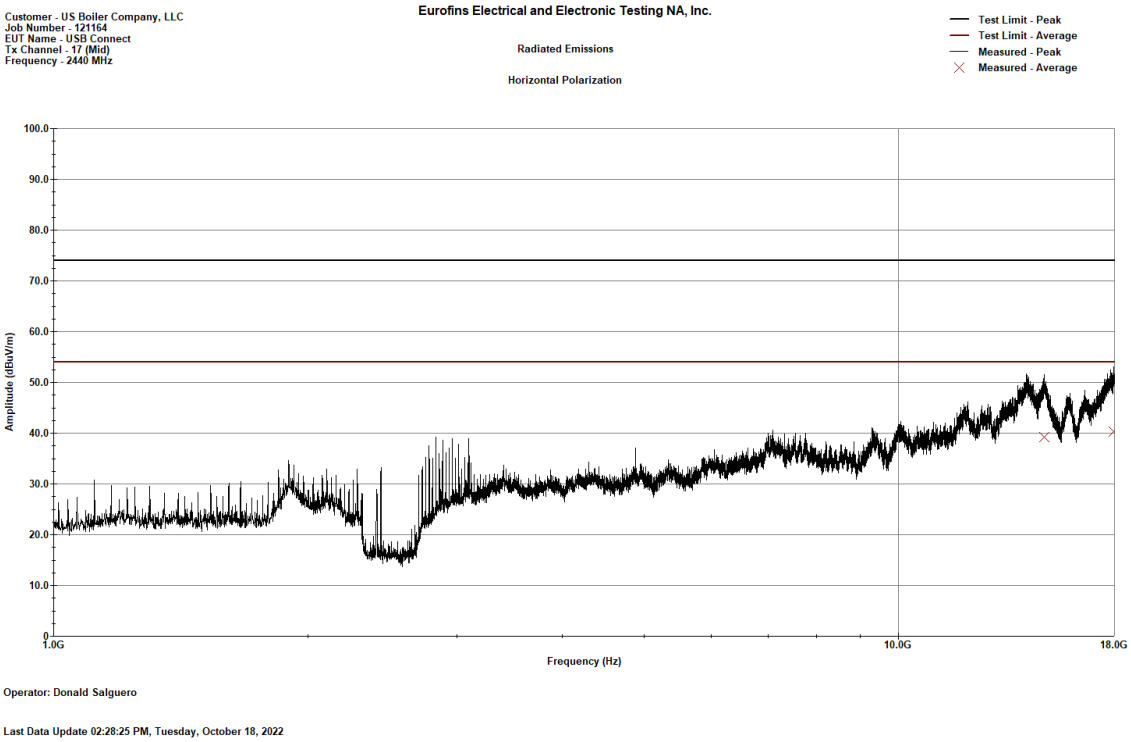

Figure 20. Radiated Emissions, 1-18GHz_Mid Channel_1Mbps_H

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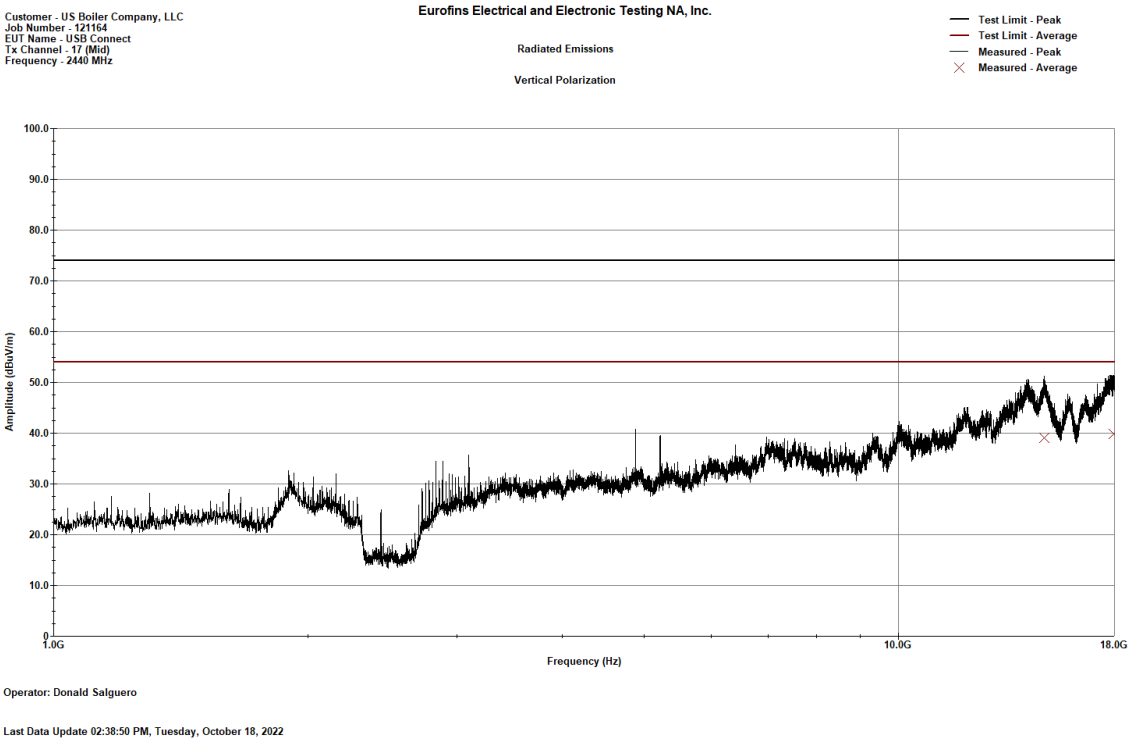

Figure 21. Radiated Emissions, 1-18GHz_Mid Channel_1Mbps_V

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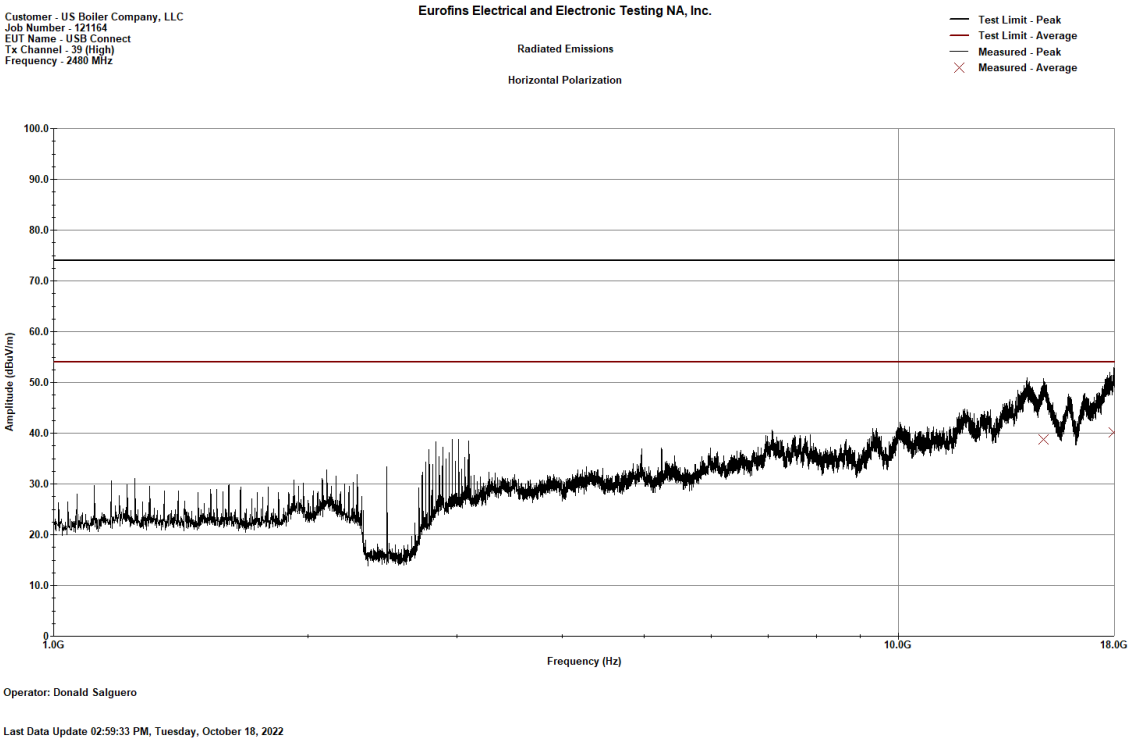

Figure 22. Radiated Emissions, 1-18GHz_High Channel_1Mbps_H

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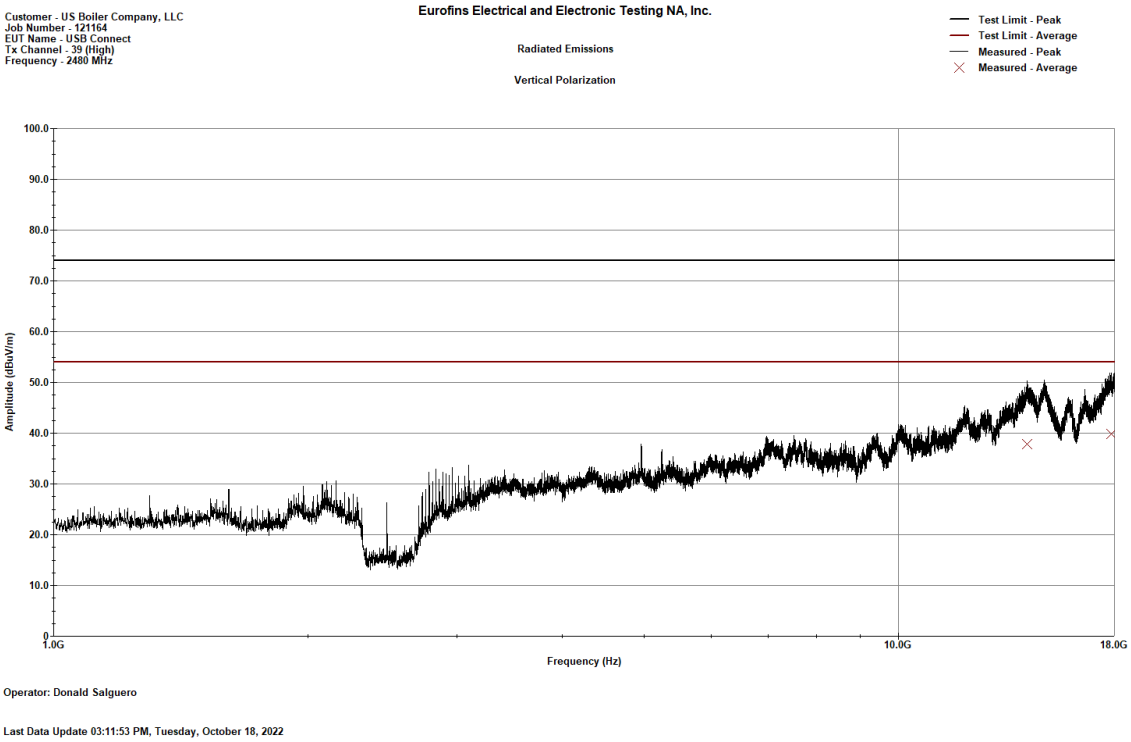

Figure 23. Radiated Emissions, 1-18GHz_High Channel_1Mbps_V

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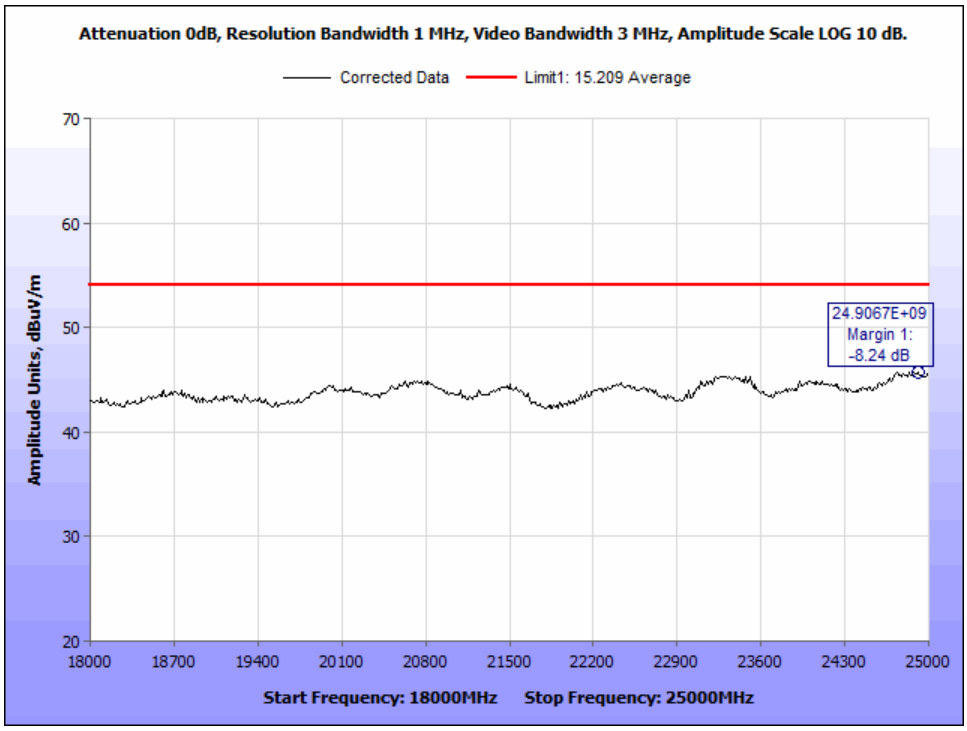

Figure 24. AVG Radiated Emissions_Low Channel_18-25GHz

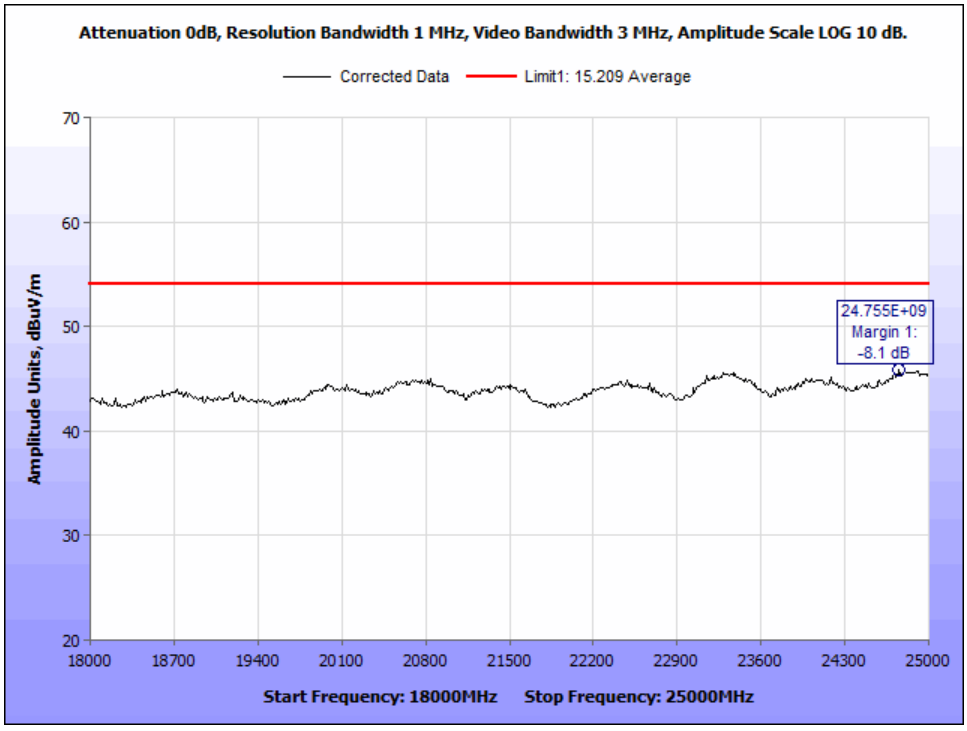

Figure 25. AVG Radiated Emissions_Mid Channel_18-25GHz

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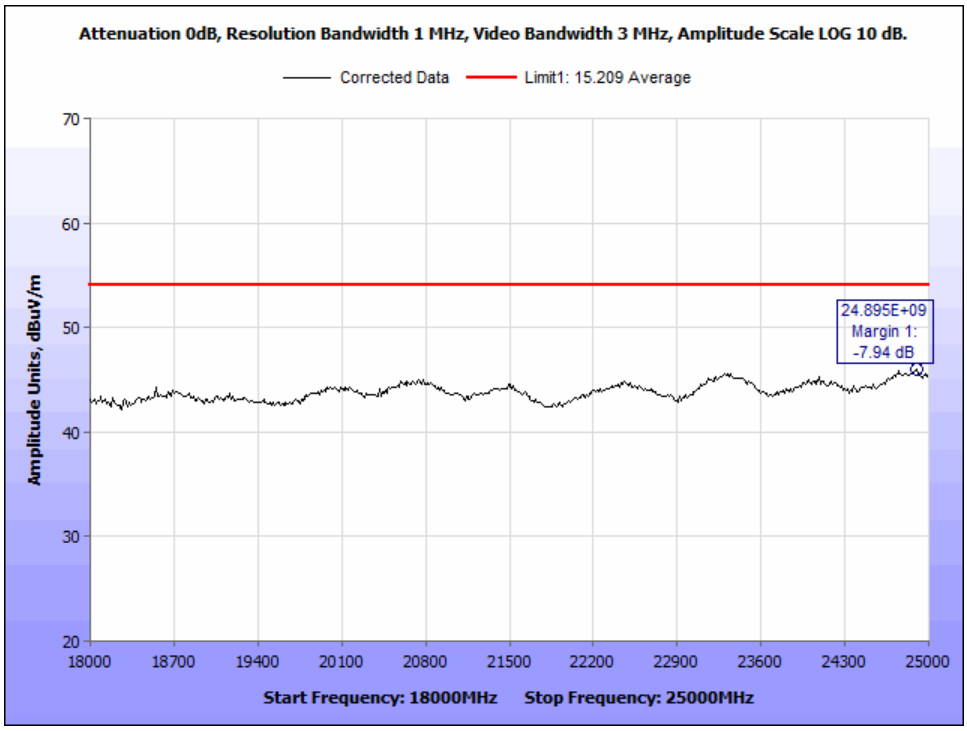

Figure 26. AVG Radiated Emissions_High Channel_18-25GHz

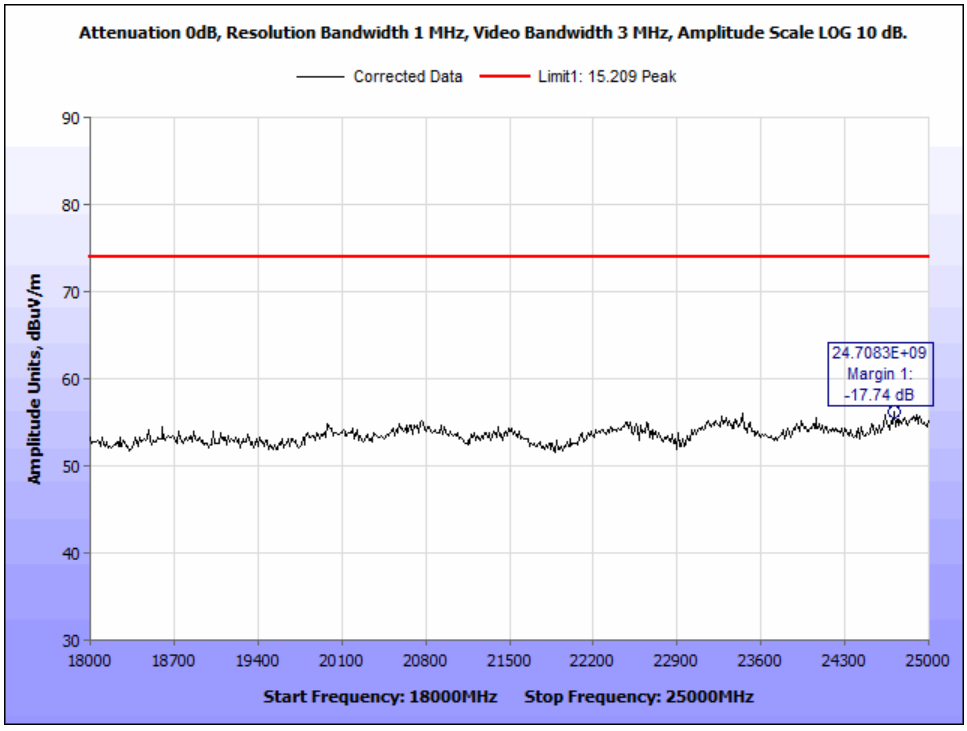

Figure 27. PK Radiated Emissions_Low Channel_18-25GHz

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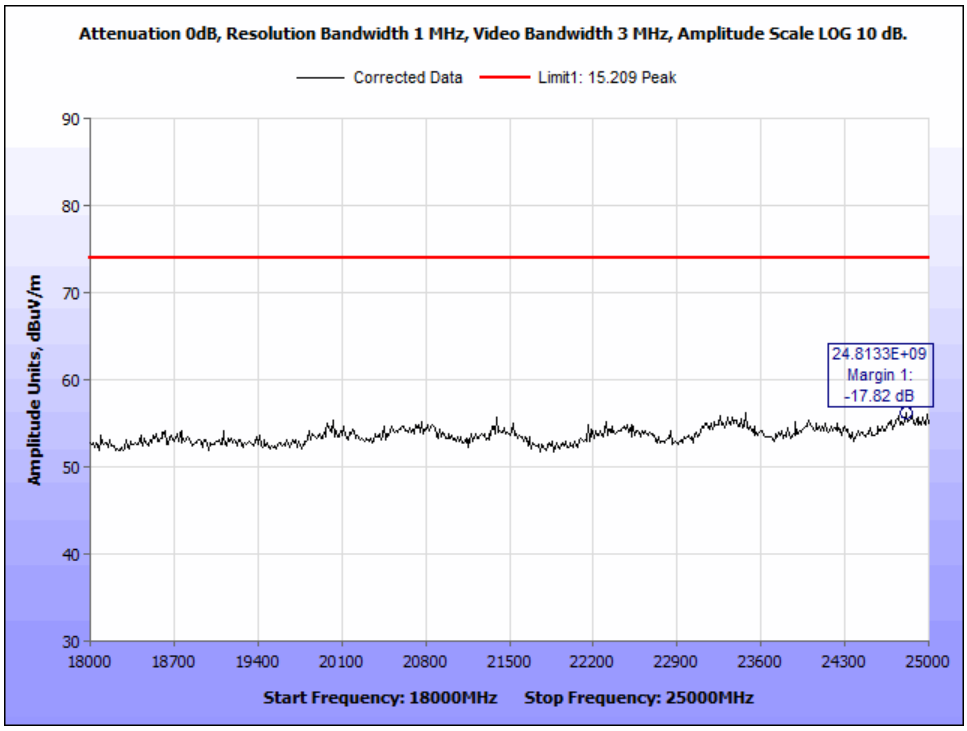

Figure 28. PK Radiated Emissions_Mid Channel_18-25GHz

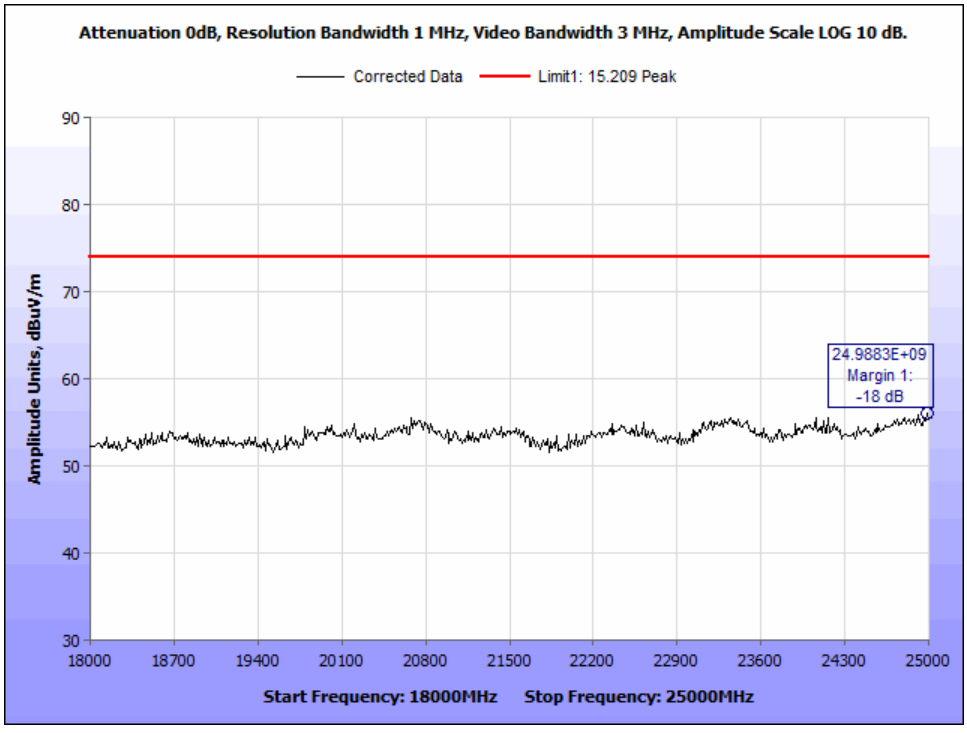

Figure 29. PK Radiated Emissions_High Channel_18-25GHz

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Radiated Band Edge Measurements

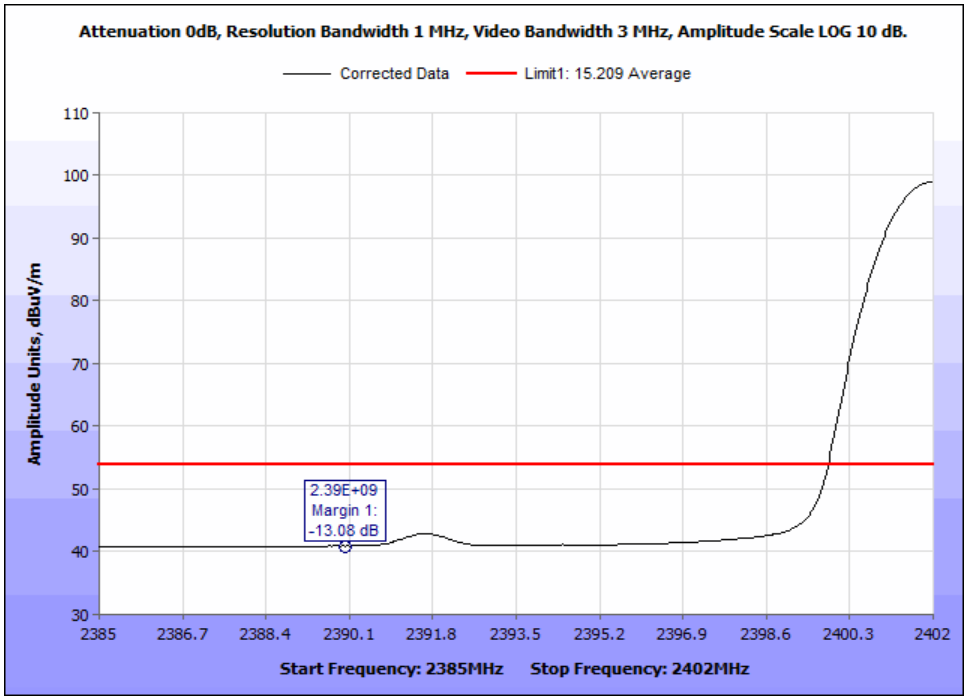

Figure 30. AVG Radiated Emissions_2390MHz Bandedge_Low Channel

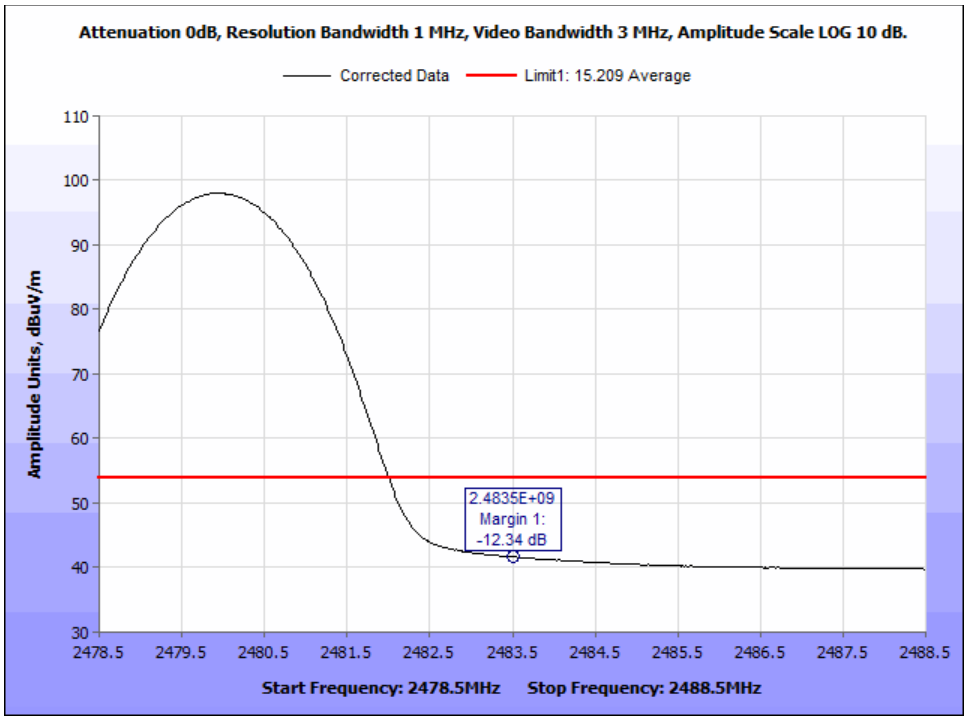

Figure 31. AVG Radiated Emissions_2483.5MHz Bandedge_High Channel

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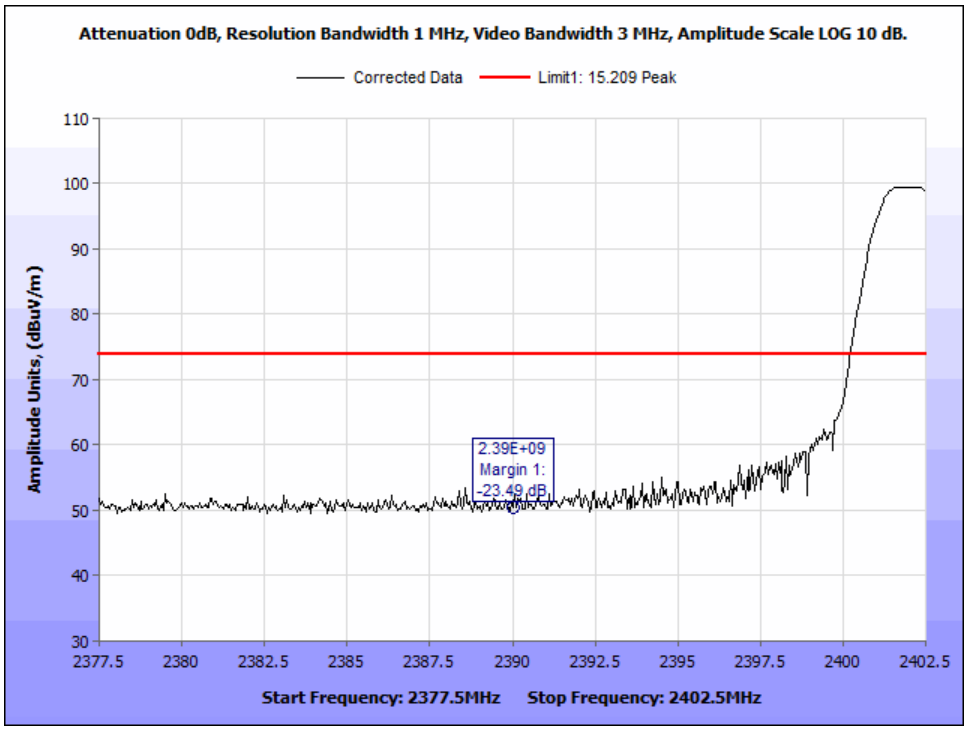

Figure 32. PK Radiated Emissions_2390MHz Bandedge_Low Channel

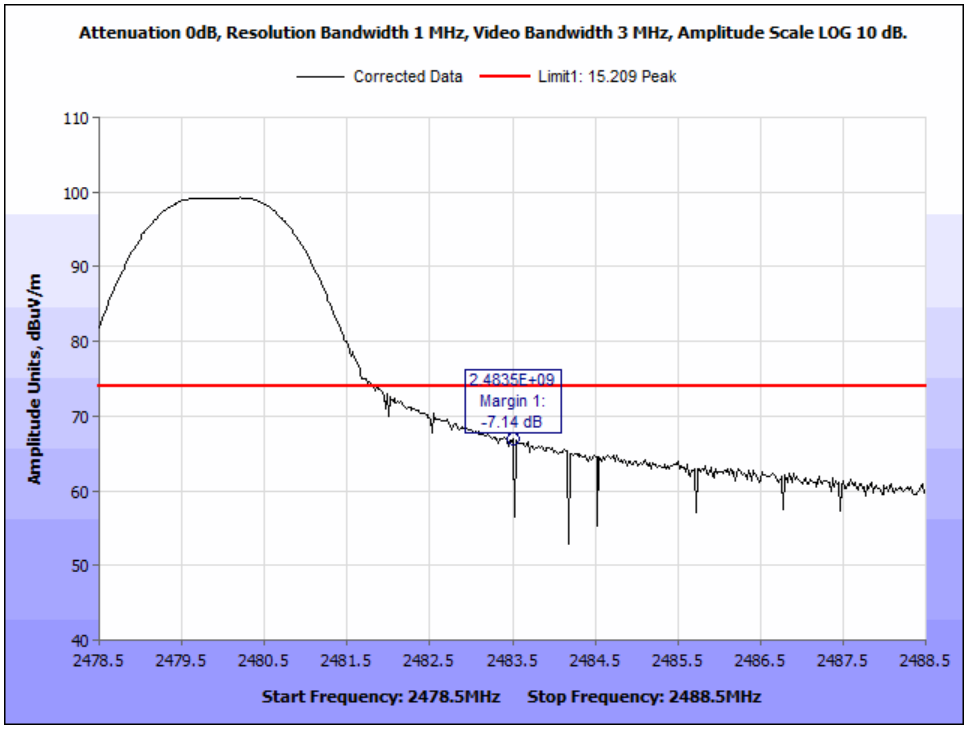

Figure 33. PK Radiated Emissions_2483.5MHz Bandedge_High Channel

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Photograph 3. Radiated Emissions - 30-1000MHz Test Setup

Photograph 4. Radiated Emissions - 1-18GHz Test Setup

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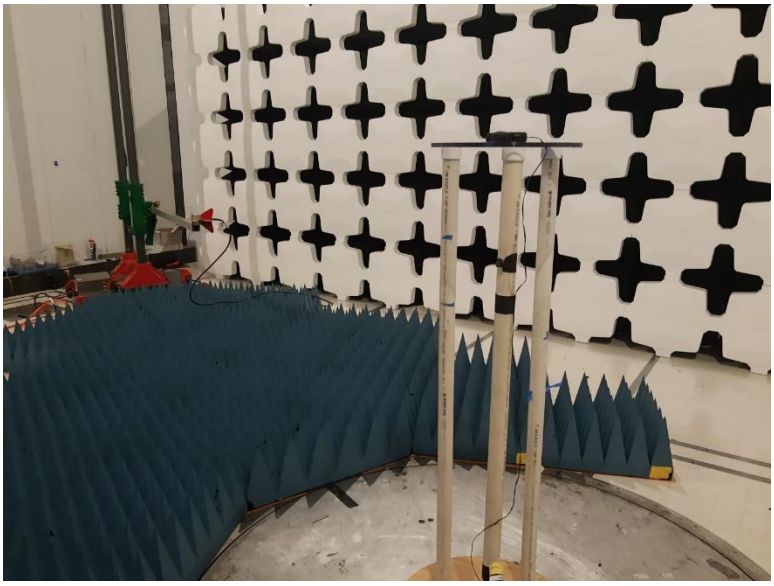
Photograph 5. Radiated Emissions - 18-25GHz Test Setup



Photograph 6. Radiated Emissions - Fundamental Emission Test Setup

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§ 15.247(d) Spurious Emissions in Non-restricted Bands

Since Peak power was used to measured Output Power, then 100kHz emissions limit should be 20dBc from fundamental. All emissions outside 2400-2483MHz are attenuated below 79dBuV

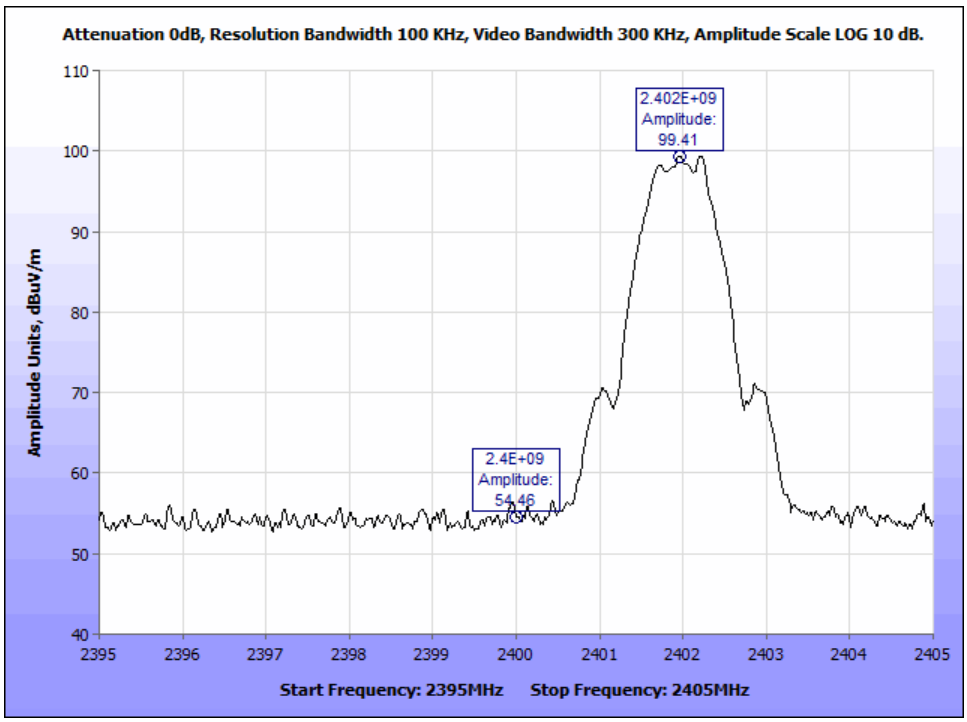

Figure 34. 100kHz Radiated Emissions_2400MHz Bandedge_Low Channel

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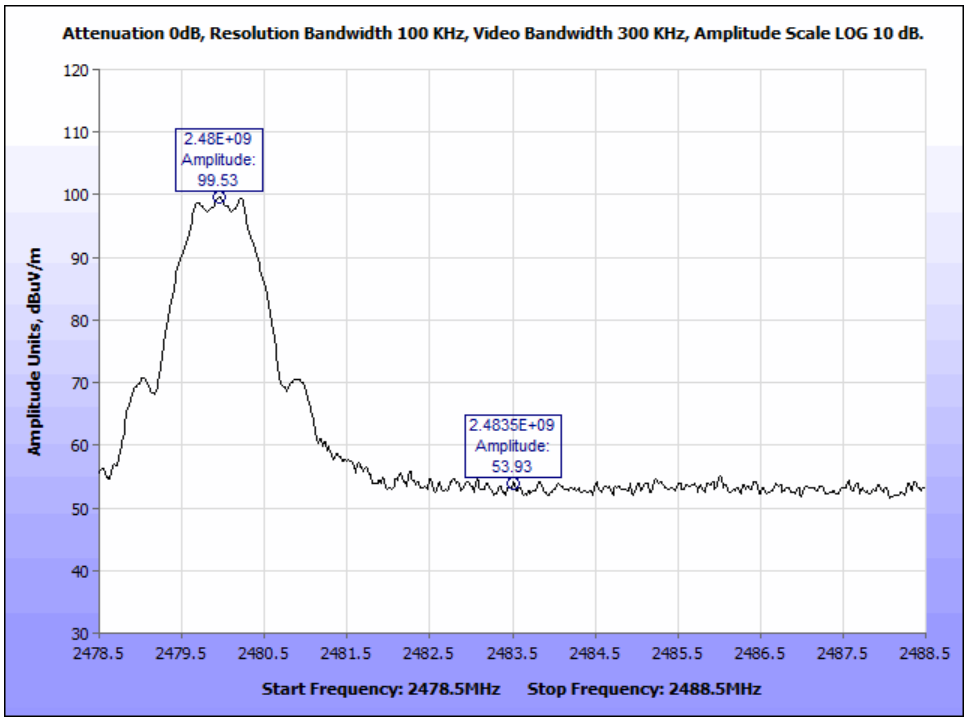

Figure 35. 100kHz Radiated Emissions_2483.5MHz Bandedge_High Channel

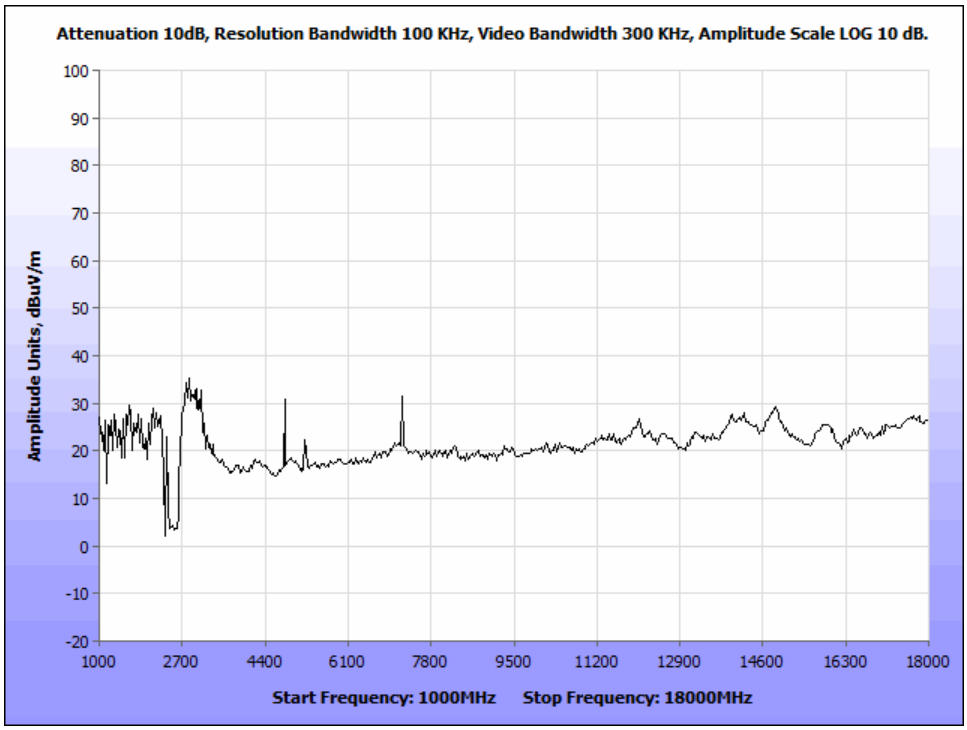

Figure 36. 100kHz Radiated Emissions_Low Channel_1-18 GHz

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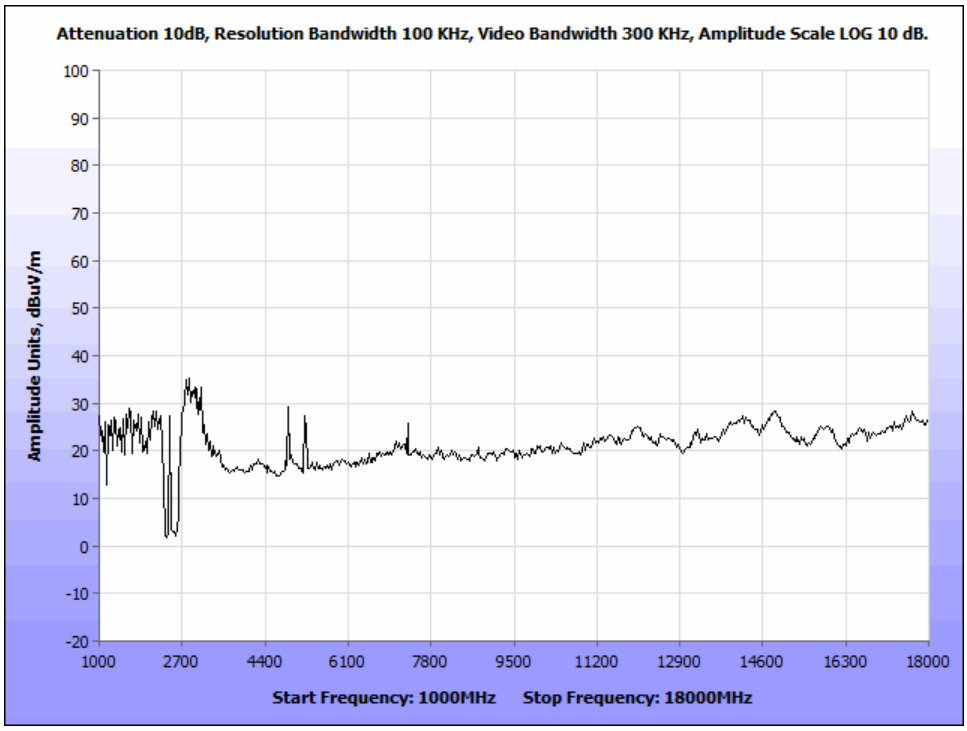

Figure 37. 100kHz Radiated Emissions_Mid Channel_1-18 GHz

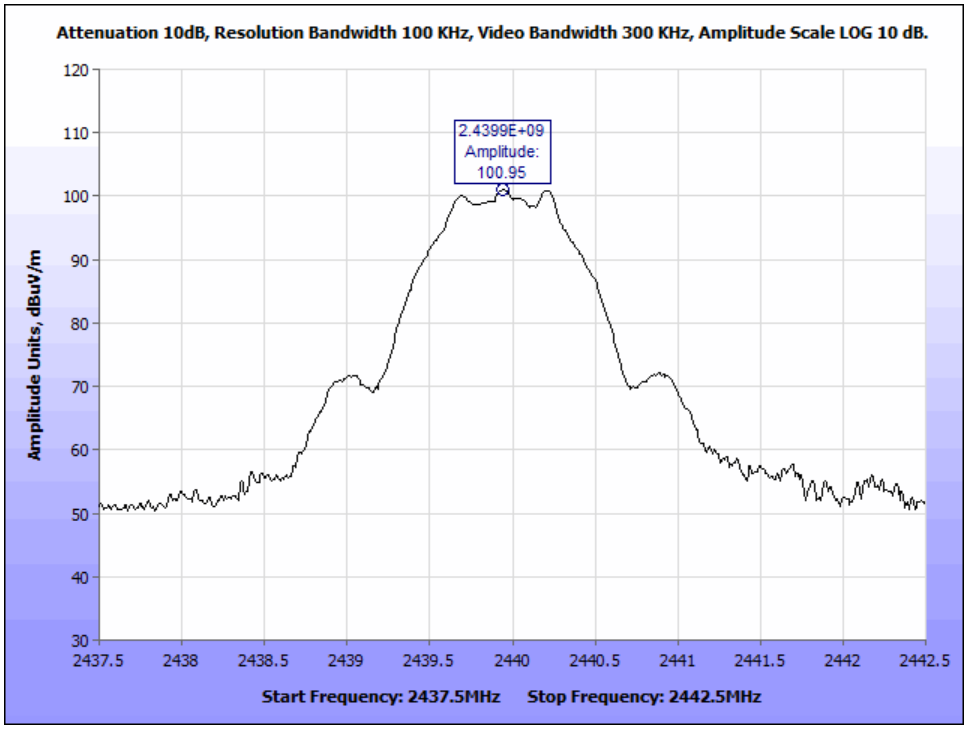

Figure 38. 100kHz Radiated Emissions_Mid Channel_Fundamental Emission

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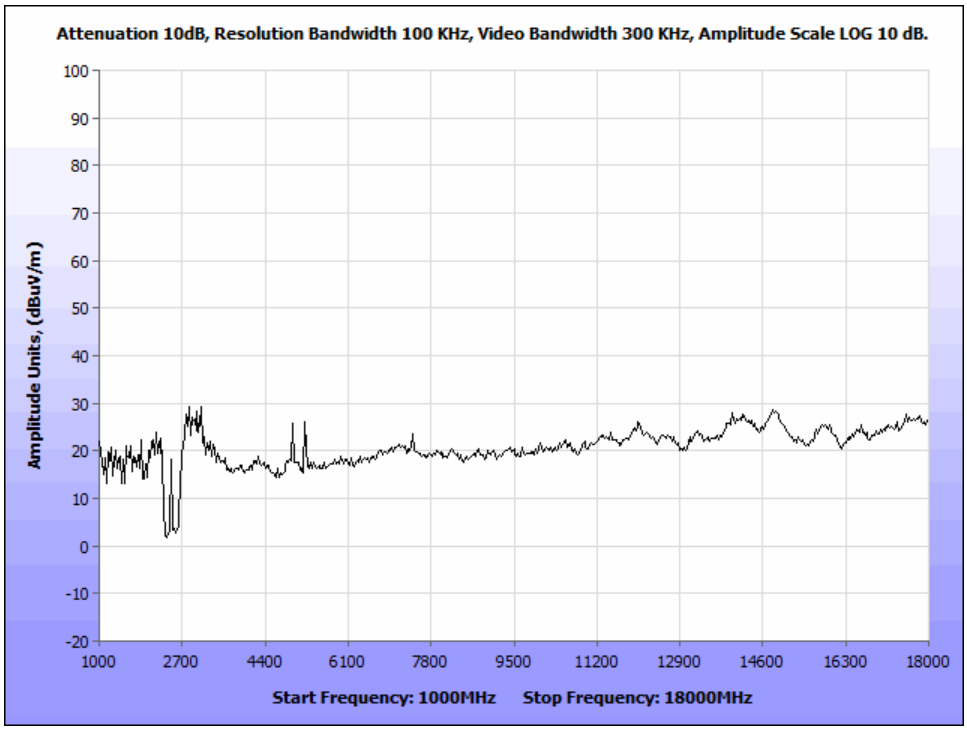

Figure 39. 100kHz Radiated Emissions_High Channel_1-18 GHz

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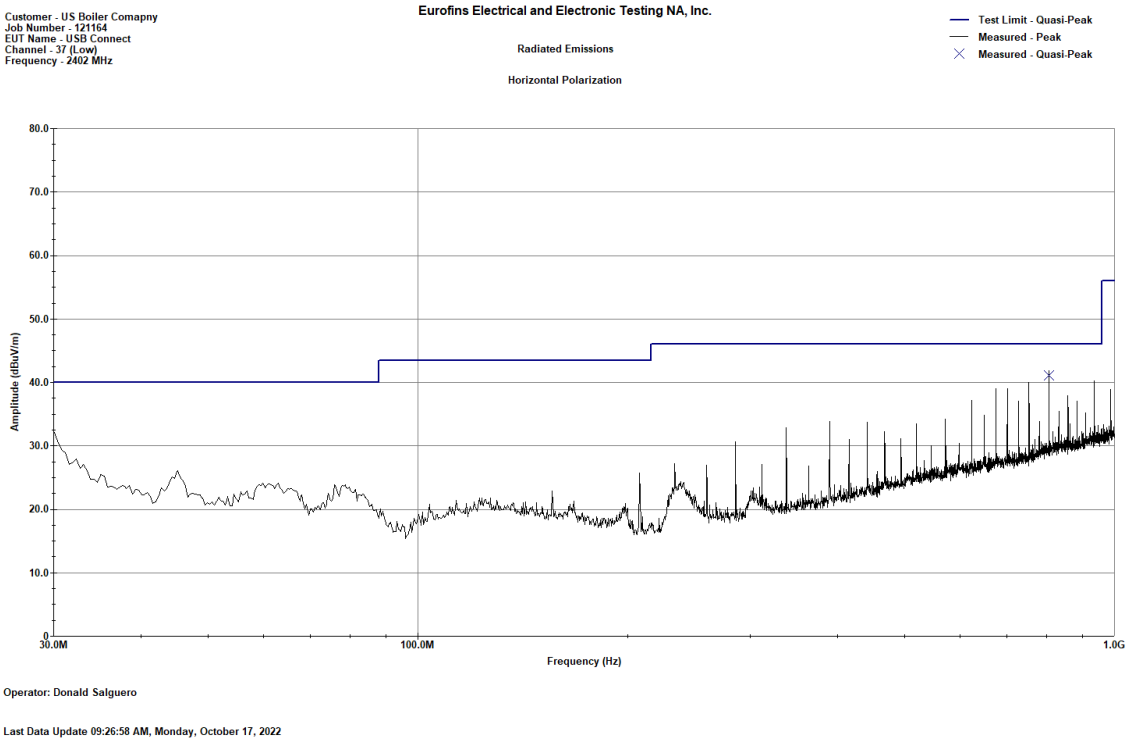

Figure 40. 100kHz Radiated Emissions, 30 MHz to 1 GHz_Low Channel_1Mbps_H

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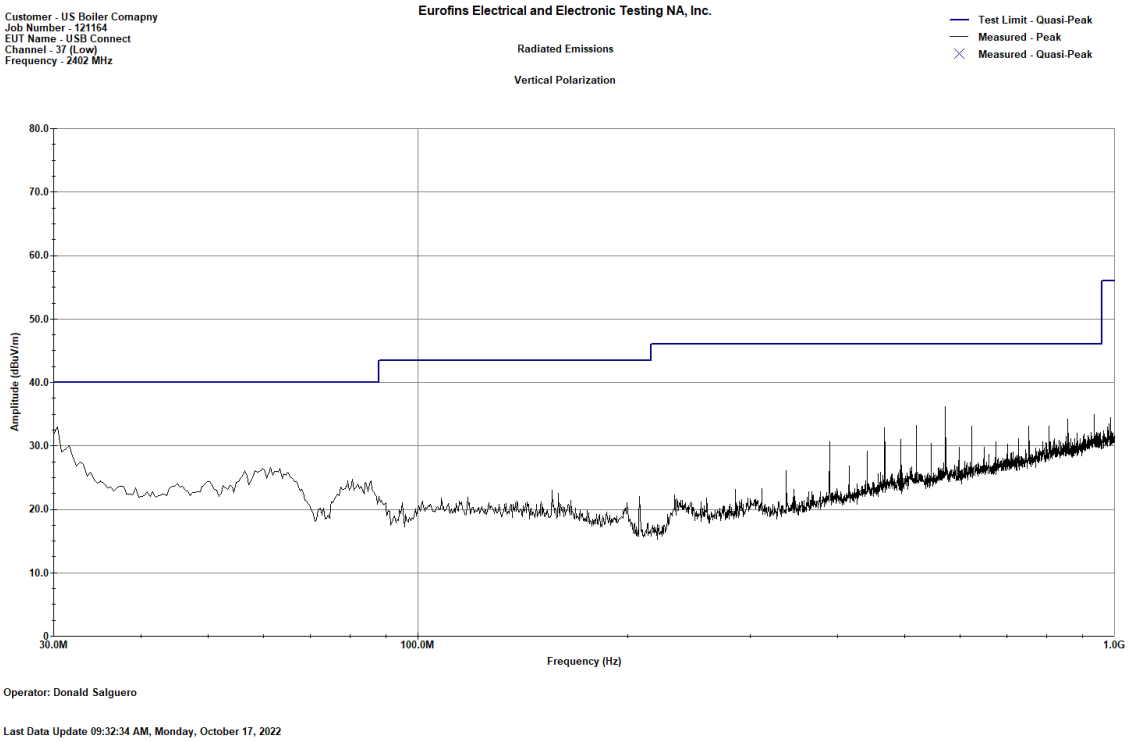

Figure 41. 100kHz Radiated Emissions, 30 MHz to 1 GHz_Low Channel_1Mbps_V

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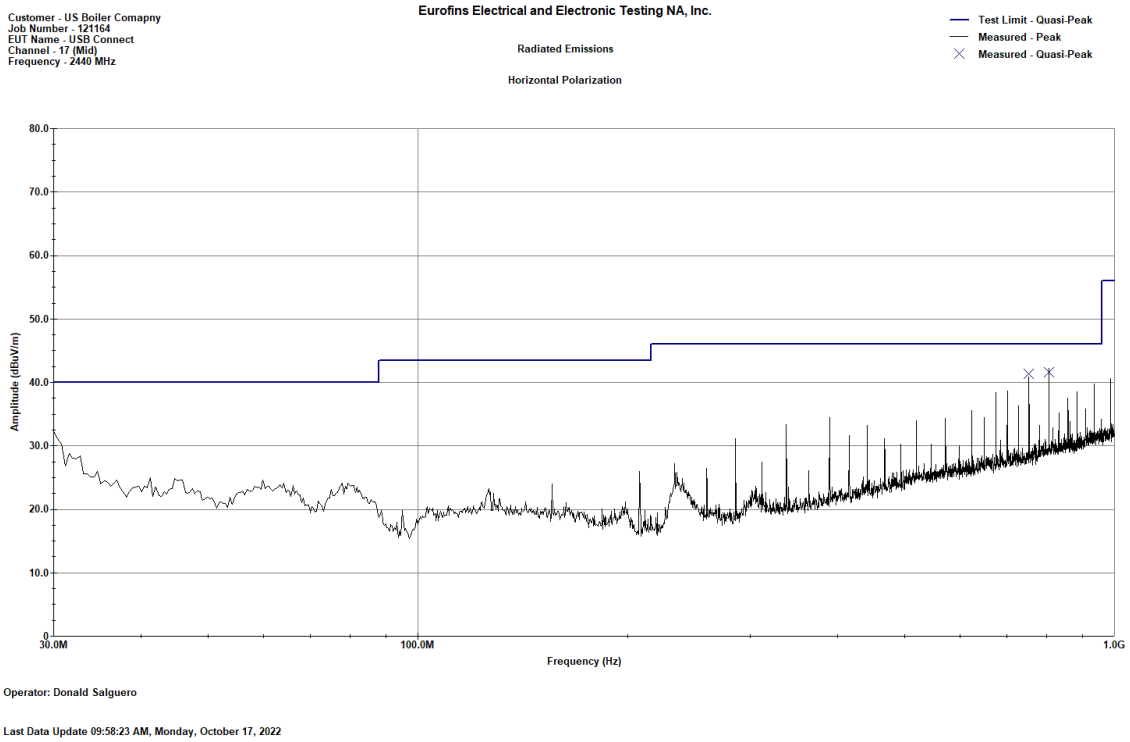

Figure 42. 100kHz Radiated Emissions, 30 MHz to 1 GHz_Mid Channel_1Mbps_H

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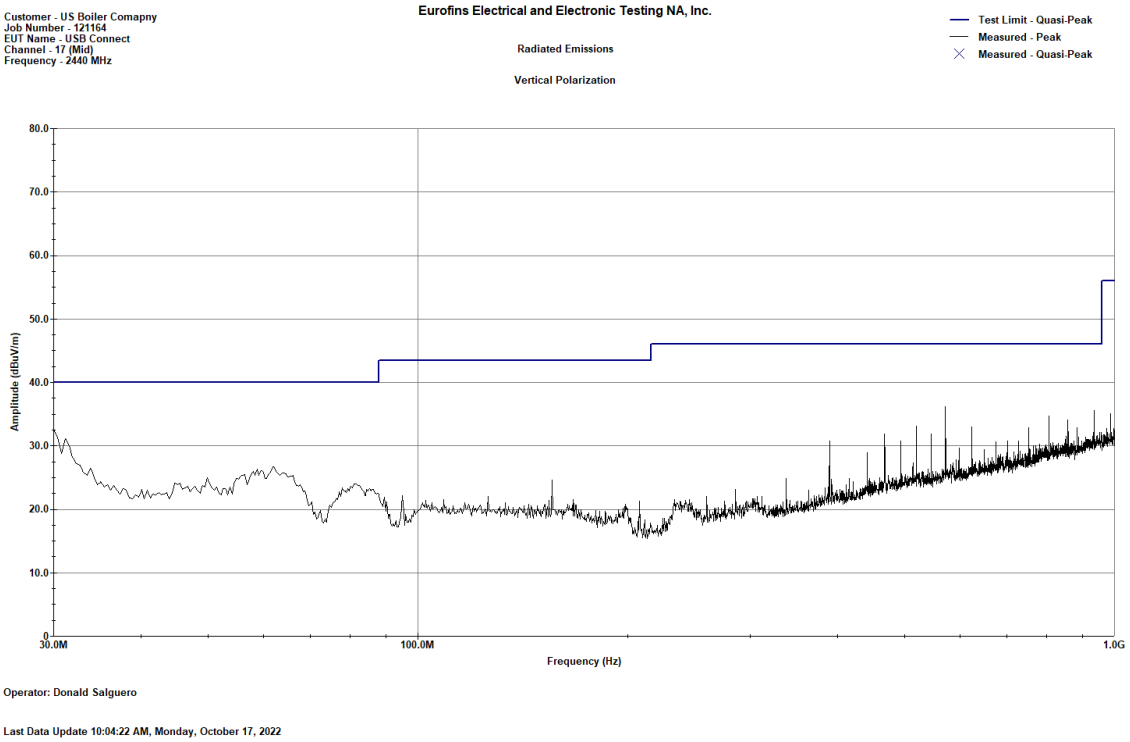

Figure 43. 100kHz Radiated Emissions, 30 MHz to 1 GHz_Mid Channel_1Mbps_V

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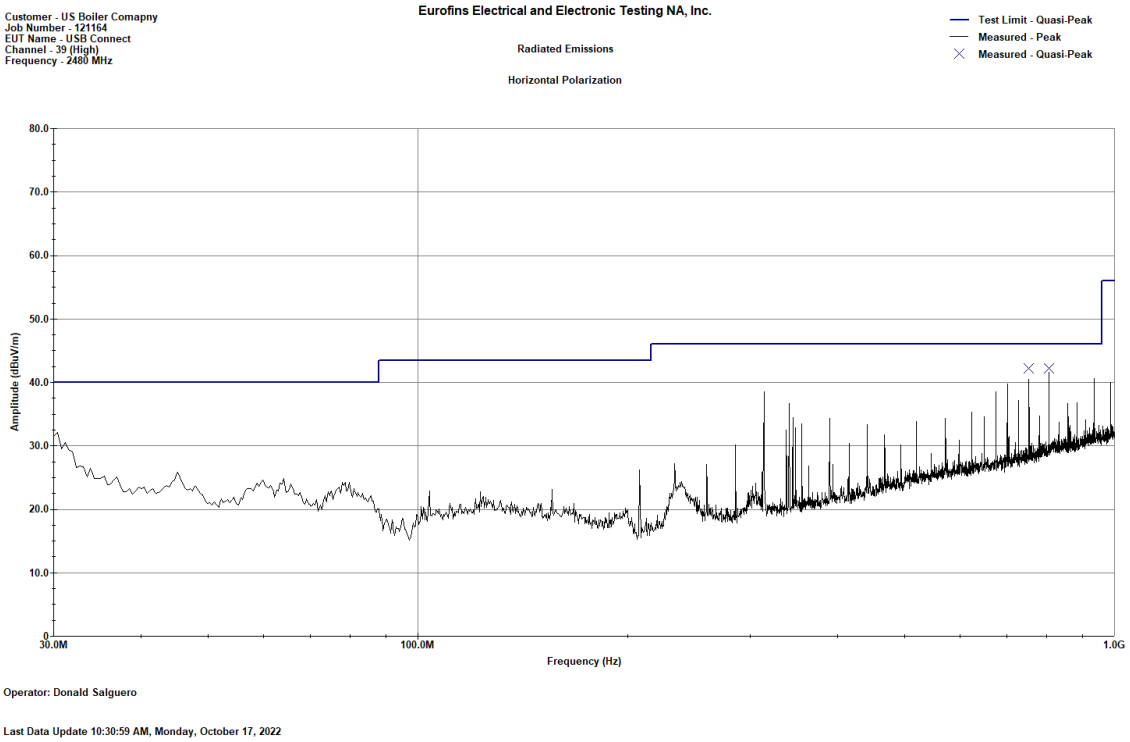

Figure 44. 100kHz Radiated Emissions, 30 MHz to 1 GHz_High Channel_1Mbps_H

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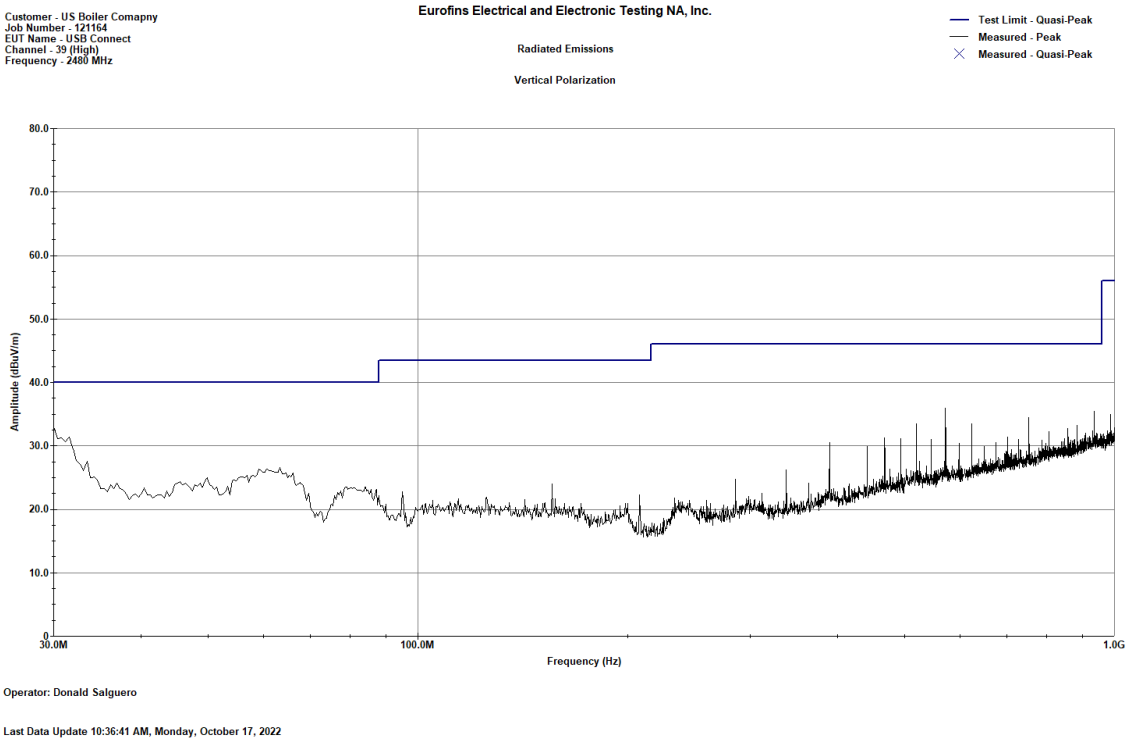

Figure 45. 100kHz Radiated Emissions, 30 MHz to 1 GHz_High Channel_1Mbps_V

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§ 15.247(e) Peak Power Spectral Density

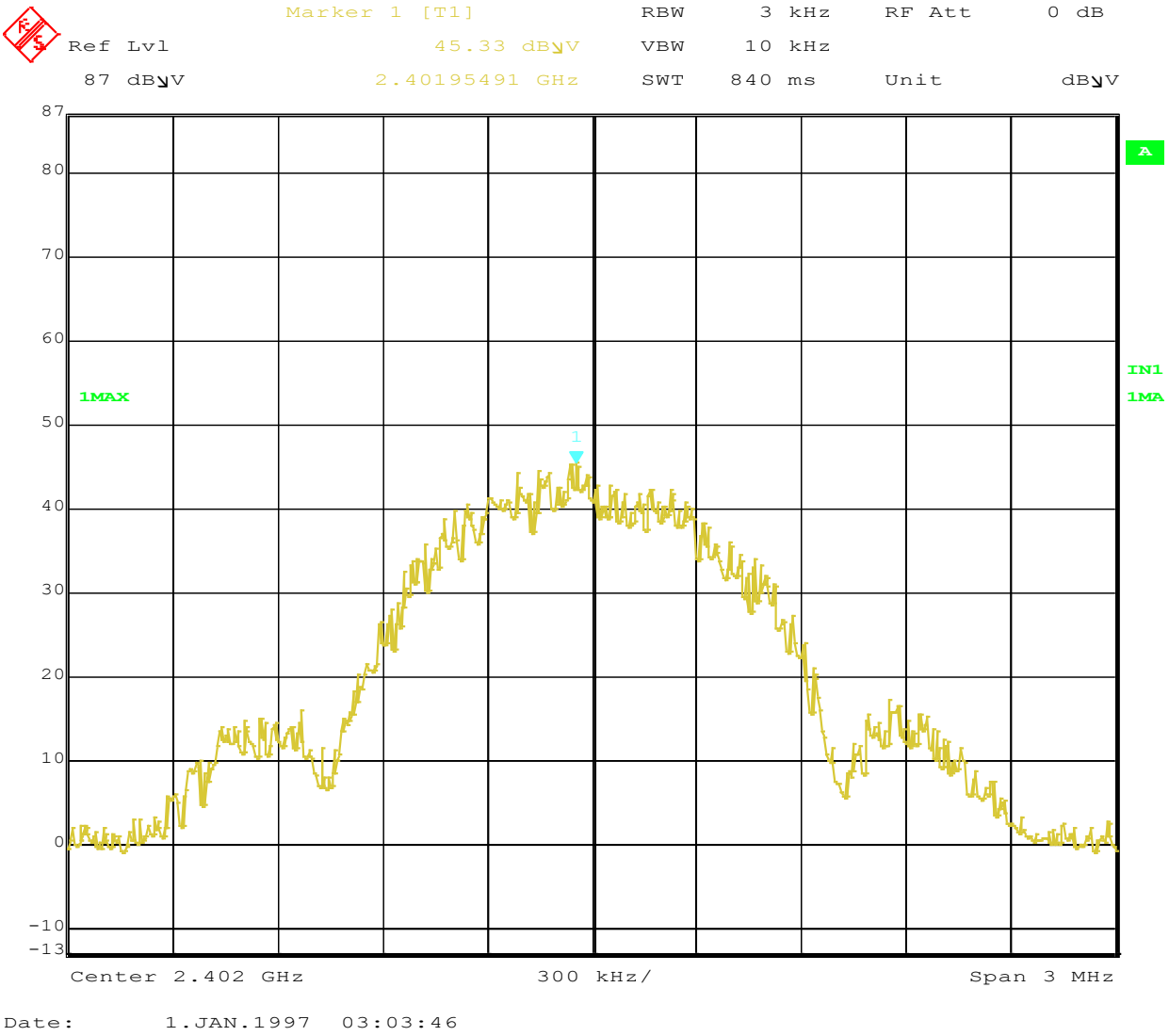

Figure 46. Uncorrected 100kHz Fundamental Emission for PSD_2402MHz_1 Mbps

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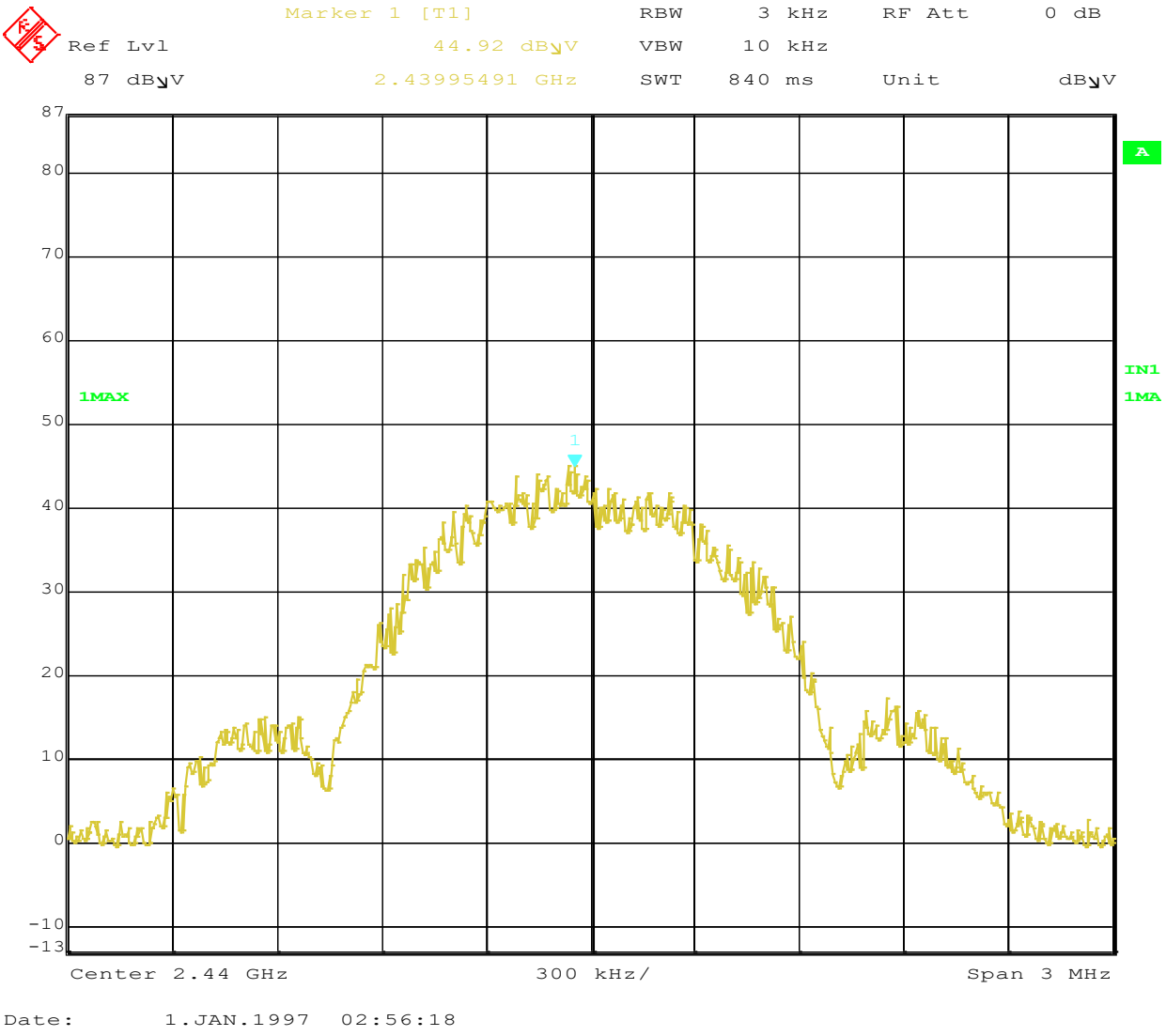

Figure 47. Uncorrected 100kHz Fundamental Emission for PSD_2440MHz_1 Mbps

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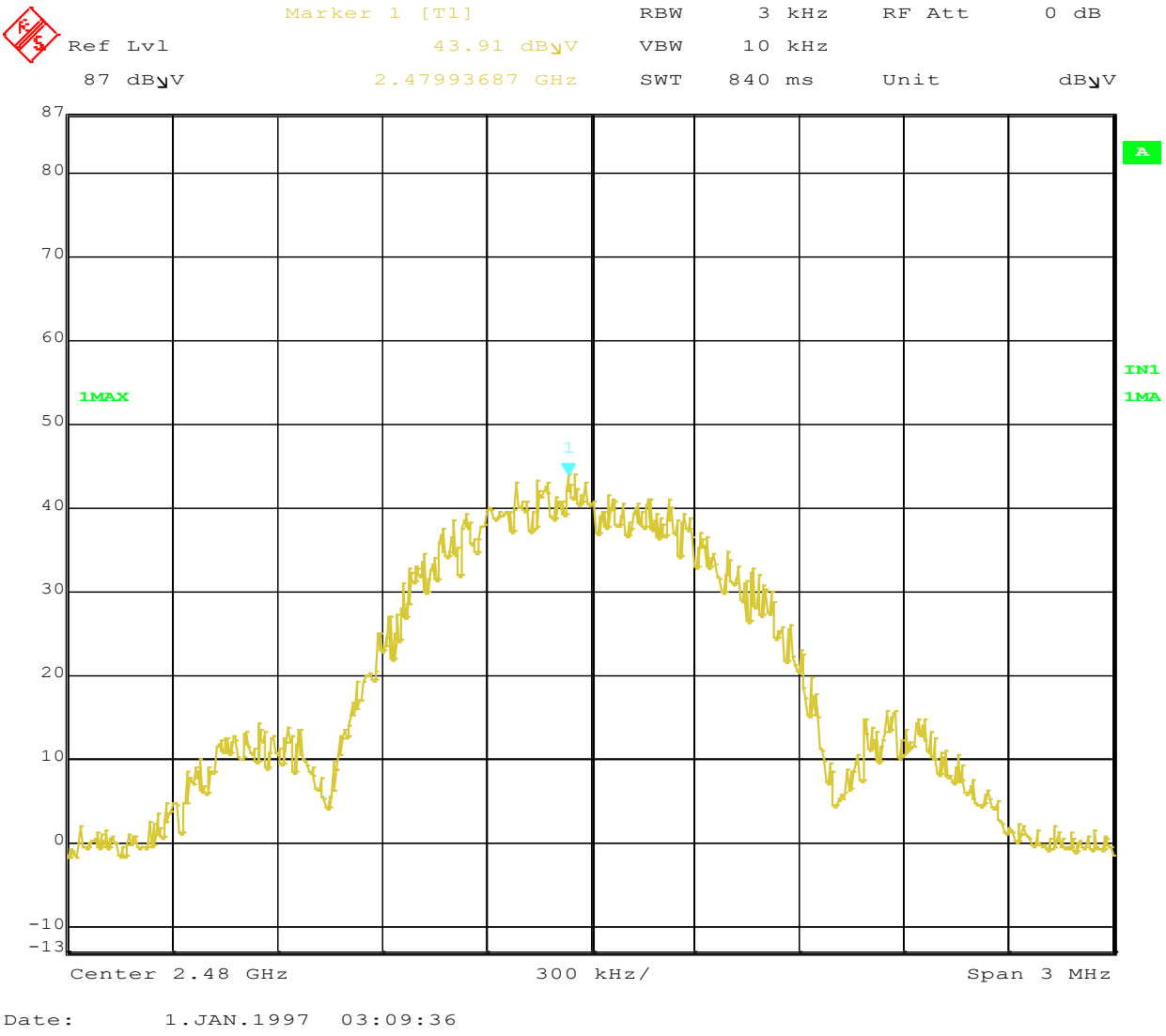

Figure 48. Uncorrected 100kHz Fundamental Emission for PSD_2480MHz_1 Mbps

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§ 15.247(i) RF Human Exposure

***No data or photographs for this section.**

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