|  |  |  |  |
| --- | --- | --- | --- |
| Date: | Click here to enter a date |  |  |
| Location: | Click here to enter text | Temperature: | °C |
| Performed by: | Name of operator | Barometric Pressure: | Text |

|  |  |  |  |
| --- | --- | --- | --- |
| **Monitor:** |  |  |  |
| Make/model: | Make/model | Serial number:: | s/n |
| Inlet flow (sccm): | NO/NOx/NT inlet flow | Range ppm: | NO/NOxNO2 |
| Last calibration date: | Click to enter date | As found Cc/Ci: | NO: Cc/Ci NOx Cc/Ci |
|  |  |  | NT: Cc/Ci NO2: Cc/Ci |

**Before Calibration:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **NO** | **NOx** | **NT** | **NO2** | **NH3** |
| Background: | Bkgd | Bkgd | Bkgd | Bkgd | Bkgd |
| Coefficient: | Coeff | Coeff | Coeff | Coeff 1 | Coeff 1 |
| Coefficient 2: | -- | -- | -- | Coeff 2 | Coeff 2 |
| Span Value: | Span value | Span value | -- | Span value | Span value |

**After Calibration:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **NO** | **NOx** | **NT** | **NO2** | **NH3** |
| Background: | Bkgd | Bkgd | Bkgd | Bkgd | Bkgd |
| Coefficient: | Coeff | Coeff | Coeff | Coeff 1 | Coeff 1 |
| Coefficient 2: | -- | -- | -- | Coeff 2 | Coeff 2 |
| Span Value: | Span value | Span value | -- | Span value | Span value |

|  |  |  |  |
| --- | --- | --- | --- |
| **Calibration Method:**  Method | | | |
| **Calibrator:** |  |  |  |
| Make/model: | Make/model | Serial number: | s/n |
| Gas Cylinder #: | Cylinder number | Concentration (ppm): | NO: ppm NOx: ppm NT: 0 |
| Flow Device #: | Flow device number | Zero Air ID#: | ID number |
| Calibration standard certificate expiration date: Click here to enter a date | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Calibrator Reference Settings:** | | | | |
| Flows | Zero | High | Mid | Low |
| Dilution | # | # | # | # |
| Ozone | # | # | # | # |
| Gas |  | # | # | # |

**Calibration NO/NOx/NT:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Calibrator Measured | | | Calculated Conc. | | | Indicated Conc. (Ci) | | | | | | Final | | |
| Flows | | | (Cc) (ppm) | | | NO | | NOx | | NT | |  | Cc/Ci |  |
| Air | Gas | Total | NO | NOx | NT | Initial | Final | Initial | Final | Initial | Final | NO | NOx | NT |
| # | 0.000 | # | 0.0000 | 0.0000 | 0.0000 | # | # | # | # | # | # |  |  |  |
| # | # | # | # | # | # | # | # | # | # | # | # | # | # | # |
| # | # | # | # | # | # |  | # |  | # |  | # | # | # | # |
| # | # | # | # | # | # |  | # |  | # |  | # | # | # | # |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | Average Correction Factors (CF) = | # | # | # |

**Calibration NO2:**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | Indicated Conc. (Ci) | | | |  | NO2 Increase | |  |
| O3 Setting | Flow Rate | | NO (ppm) | NOx (ppm) | NO2 (ppm) Initial | NO2 (ppm) Final | NO  Decrease | Initial | Final | Final Cc/Ci |
| # | # | | # | # | # |  | # | # | # |  |
| # | # | | # | # | # | # | # | # | # | # |
| # | # | | # | # |  | # | # |  | # | # |
| # | # | | # | # |  | # | # |  | # | # |

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | Average Correction Factor (CF) = | # |

|  |  |
| --- | --- |
| **Converter efficiency (average value):** | Value |

|  |  |
| --- | --- |
| **Linear Regression Analysis:** | Y = mx + b (where x = calculated concentration, y = indicated concentration) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **NO** | **NOx** | **NT** | **NO2** |
| Correlation Coefficient: | # | # | # | # |
| m (slope): | # | # | # | # |
| b (intercept as % of full scale): | # | # | # | # |

|  |
| --- |
| **Remarks:** Click here to enter text. |

**Next Calibration due by:** Click here to enter a date