284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922



# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q3371 | **OrderDate:** | 10/16/2025 4:13:00 PM |
| **Client:** | Tetra Tech NUS, Inc. | **Project:** | NWIRP Bethpage 112G08005-WE13 |
| **Contact:** | Ernie Wu | **Location:** | D31,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q3371-02** | **BP-VPB-184-EB-20251016** | **Water** | | | **10/16/25** | | | **10/16/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 10/20/25 | 10/20/25 | |
| **Q3371-03** | **VPB184-HYD-20251010** | **Water** | | | **10/10/25** | | | **10/16/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 10/20/25 | 10/20/25 | |
| **Q3371-05** | **BP-VPB-184-GW-920-922** | **Water** | | | **10/15/25** | | | **10/16/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 10/20/25 | 10/20/25 | |
| **Q3371-06** | **VPB184-HYD-202510 16** | **Water** | | | **10/16/25** | | | **10/16/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 10/20/25 | 10/20/25 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q3371

**Client:** Tetra Tech NUS, Inc.

| Sample ID | Client ID | Parameter | Concentration | C | MDL | LOD | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID : BP-VPB-184-EB-20251016** | | | | | | | | |
| Q3371-02 | BP-VPB-184-EB-202510 WATER | 1,4-Dioxane | 0.090 | J | 0.07 | 0.22 | 0.22 | ug/L |
| | | **Total Svoc :** | | | **0.09** | | | |
| | | **Total Concentration:** | | | **0.09** | | | |
| **Client ID : VPB184-HYD-20251016** | | | | | | | | |
| Q3371-06 | VPB184-HYD-20251016 WATER | 1,4-Dioxane | 0.070 | J | 0.07 | 0.2 | 0.2 | ug/L |
| | | **Total Svoc :** | | | **0.07** | | | |
| | | **Total Concentration:** | | | **0.07** | | | |

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 10/16/25 |
| Project: | NWIRP Bethpage 112G08005-WE13 | Date Received: | 10/16/25 |
| Client Sample ID: | BP-VPB-184-EB-20251016 | SDG No.: | Q3371 |
| Lab Sample ID: | Q3371-02 | Matrix: | Water |
| Analytical Method: | SW8270ESIM Level : LOW | % Solid: | 0 |
| Sample Wt/Vol: | 900 mL Final Vol: 1000 uL | Test: | SVOC-SIMGroup1 |
| Prep Method : | Prep Date: 10/20/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.090 | J | 1 | 0.070 | 0.22 | 0.22 | ug/L | 10/20/25 19:45 | PB170167 |
| **SURROGATES** | | | | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.30 | | | 30 - 150 | | 76% | SPK: 0.4 | | |
| 93951-69-0 | Fluoranthene-d10 | 0.42 | | | 30 - 150 | | 105% | SPK: 0.4 | | |
| 4165-60-0 | Nitrobenzene-d5 | 0.36 | | | 55 - 111 | | 91% | SPK: 0.4 | | |
| 321-60-8 | 2-Fluorobiphenyl | 0.35 | | | 53 - 106 | | 87% | SPK: 0.4 | | |
| 1718-51-0 | Terphenyl-d14 | 0.55 | * | | 58 - 132 | | 137% | SPK: 0.4 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 6200 | | | | | | | | |
| 1146-65-2 | Naphthalene-d8 | 16000 | | | | | | | | |
| 15067-26-2 | Acenaphthene-d10 | 8400 | | | | | | | | |
| 1517-22-2 | Phenanthrene-d10 | 17100 | | | | | | | | |
| 1719-03-5 | Chrysene-d12 | 15000 | | | | | | | | |
| 1520-96-3 | Perylene-d12 | 14500 | | | | | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 10/10/25 |
| Project: | NWIRP Bethpage 112G08005-WE13 | Date Received: | 10/16/25 |
| Client Sample ID: | VPB184-HYD-20251010 | SDG No.: | Q3371 |
| Lab Sample ID: | Q3371-03 | Matrix: | Water |
| Analytical Method: | SW8270ESIM Level : LOW | % Solid: | 0 |
| Sample Wt/Vol: | 970 mL Final Vol: 1000 uL | Test: | SVOC-SIMGroup1 |
| Prep Method : | Prep Date: 10/20/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.21 | U | 1 | 0.070 | 0.21 | 0.21 | ug/L | 10/20/25 20:21 | PB170167 |
| **SURROGATES** | | | | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.016 | * | | 30 - 150 | | 4% | SPK: 0.4 | | |
| 93951-69-0 | Fluoranthene-d10 | 0.042 | * | | 30 - 150 | | 10% | SPK: 0.4 | | |
| 4165-60-0 | Nitrobenzene-d5 | 0.34 | | | 55 - 111 | | 86% | SPK: 0.4 | | |
| 321-60-8 | 2-Fluorobiphenyl | 0.34 | | | 53 - 106 | | 84% | SPK: 0.4 | | |
| 1718-51-0 | Terphenyl-d14 | 0.55 | * | | 58 - 132 | | 137% | SPK: 0.4 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 7050 | | | | | | | | |
| 1146-65-2 | Naphthalene-d8 | 18600 | | | | | | | | |
| 15067-26-2 | Acenaphthene-d10 | 9630 | | | | | | | | |
| 1517-22-2 | Phenanthrene-d10 | 18000 | | | | | | | | |
| 1719-03-5 | Chrysene-d12 | 14000 | | | | | | | | |
| 1520-96-3 | Perylene-d12 | 12700 | | | | | | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 10/15/25 |
| Project: | NWIRP Bethpage 112G08005-WE13 | Date Received: | 10/16/25 |
| Client Sample ID: | BP-VPB-184-GW-920-922 | SDG No.: | Q3371 |
| Lab Sample ID: | Q3371-05 | Matrix: | Water |
| Analytical Method: | SW8270ESIM Level : LOW | % Solid: | 0 |
| Sample Wt/Vol: | 790 mL Final Vol: 1000 uL | Test: | SVOC-SIMGroup1 |
| Prep Method : | Prep Date: 10/20/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.25 | U | 1 | 0.080 | 0.25 | 0.25 | ug/L | 10/20/25 20:58 | PB170167 |
| **SURROGATES** | | | | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.29 | | | 30 - 150 | | 73% | SPK: 0.4 | | |
| 93951-69-0 | Fluoranthene-d10 | 0.41 | | | 30 - 150 | | 101% | SPK: 0.4 | | |
| 4165-60-0 | Nitrobenzene-d5 | 0.35 | | | 55 - 111 | | 88% | SPK: 0.4 | | |
| 321-60-8 | 2-Fluorobiphenyl | 0.33 | | | 53 - 106 | | 83% | SPK: 0.4 | | |
| 1718-51-0 | Terphenyl-d14 | 0.55 | * | | 58 - 132 | | 137% | SPK: 0.4 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 7240 | | | | | | | | |
| 1146-65-2 | Naphthalene-d8 | 19100 | | | | | | | | |
| 15067-26-2 | Acenaphthene-d10 | 10100 | | | | | | | | |
| 1517-22-2 | Phenanthrene-d10 | 20200 | | | | | | | | |
| 1719-03-5 | Chrysene-d12 | 17500 | | | | | | | | |
| 1520-96-3 | Perylene-d12 | 17400 | | | | | | | | |

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() = Laboratory InHouse Limit
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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 10/16/25 |
| Project: | NWIRP Bethpage 112G08005-WE13 | Date Received: | 10/16/25 |
| Client Sample ID: | VPB184-HYD-20251016 | SDG No.: | Q3371 |
| Lab Sample ID: | Q3371-06 | Matrix: | Water |
| Analytical Method: | SW8270ESIM Level : LOW | % Solid: | 0 |
| Sample Wt/Vol: | 1000 mL Final Vol: 1000 uL | Test: | SVOC-SIMGroup1 |
| Prep Method : | Prep Date: 10/20/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.070 | J | 1 | 0.070 | 0.20 | 0.20 | ug/L | 10/20/25 21:34 | PB170167 |
| **SURROGATES** | | | | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.014 | * | | 30 - 150 | | 4% | SPK: 0.4 | | |
| 93951-69-0 | Fluoranthene-d10 | 0.043 | * | | 30 - 150 | | 11% | SPK: 0.4 | | |
| 4165-60-0 | Nitrobenzene-d5 | 0.31 | | | 55 - 111 | | 77% | SPK: 0.4 | | |
| 321-60-8 | 2-Fluorobiphenyl | 0.32 | | | 53 - 106 | | 79% | SPK: 0.4 | | |
| 1718-51-0 | Terphenyl-d14 | 0.52 | | | 58 - 132 | | 131% | SPK: 0.4 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 7490 | | | | | | | | |
| 1146-65-2 | Naphthalene-d8 | 19900 | | | | | | | | |
| 15067-26-2 | Acenaphthene-d10 | 10200 | | | | | | | | |
| 1517-22-2 | Phenanthrene-d10 | 19700 | | | | | | | | |
| 1719-03-5 | Chrysene-d12 | 16600 | | | | | | | | |
| 1520-96-3 | Perylene-d12 | 14800 | | | | | | | | |

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MDL = Method Detection Limit
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E = Value Exceeds Calibration Range
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M = MS/MSD acceptance criteria did not meet requirements

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() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

# QC SUMMARY

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# Surrogate Summary

**SW-846**

**SDG No.:** Q3371

**Client:** Tetra Tech NUS, Inc.

**Analytical Method:** 8270-Modified

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| PB170167BL | PB170167BL | 2-Methylnaphthalene-d10 | 0.4 | 0.34 | 85 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.33 | 83 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.36 | 90 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.39 | 98 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.45 | 113 | | 58 | 132 |
| PB170167BS | PB170167BS | 2-Methylnaphthalene-d10 | 0.4 | 0.40 | 99 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.34 | 85 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.42 | 104 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.44 | 111 | * | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.51 | 127 | | 58 | 132 |
| PB170167BSD | PB170167BSD | 2-Methylnaphthalene-d10 | 0.4 | 0.36 | 90 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.31 | 78 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.38 | 95 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.42 | 105 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.47 | 117 | | 58 | 132 |
| Q3371-02 | BP-VPB-184-EB-20251016 | 2-Methylnaphthalene-d10 | 0.4 | 0.30 | 76 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.42 | 105 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.36 | 91 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.35 | 87 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.55 | 137 | * | 58 | 132 |
| Q3371-03 | VPB184-HYD-20251010 | 2-Methylnaphthalene-d10 | 0.4 | 0.016 | 4 | * | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.042 | 10 | * | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.34 | 86 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.34 | 84 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.55 | 137 | * | 58 | 132 |
| Q3371-05 | BP-VPB-184-GW-920-922 | 2-Methylnaphthalene-d10 | 0.4 | 0.29 | 73 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.41 | 101 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.35 | 88 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.33 | 83 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.55 | 137 | * | 58 | 132 |
| Q3371-06 | VPB184-HYD-20251016 | 2-Methylnaphthalene-d10 | 0.4 | 0.014 | 4 | * | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.043 | 11 | * | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.31 | 77 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.32 | 79 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.52 | 131 | | 58 | 132 |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q3371 **Analytical Method:** 8270-Modified

**Client:** Tetra Tech NUS, Inc. **DataFile:** BN038103.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB170167BS | 1,4-Dioxane | 0.4 | 0.38 | ug/L | 95 | | | | 70 | 130 | |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q3371 **Analytical Method:** 8270-Modified

**Client:** Tetra Tech NUS, Inc. **DataFile:** BN038104.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB170167BSD | 1,4-Dioxane | 0.4 | 0.35 | ug/L | 88 | 8 | | | 70 | 130 | 20 |

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID: PB170167BL

Lab Name: Alliance | Contract: TETR06

Lab Code: ACE | SDG NO.: Q3371

Lab File ID: BN038102.D | Lab Sample ID: PB170167BL

Instrument ID: BNA_N | Date Extracted: 10/20/2025

Matrix: (soil/water) Water | Date Analyzed: 10/20/2025

Level: (low/med) LOW | Time Analyzed: 17:56

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| PB170167BS | PB170167BS | BN038103.D | 10/20/2025 |
| PB170167BSD | PB170167BSD | BN038104.D | 10/20/2025 |
| BP-VPB-184-EB-20251016 | Q3371-02 | BN038105.D | 10/20/2025 |
| VPB184-HYD-20251010 | Q3371-03 | BN038106.D | 10/20/2025 |
| BP-VPB-184-GW-920-922 | Q3371-05 | BN038107.D | 10/20/2025 |
| VPB184-HYD-20251016 | Q3371-06 | BN038108.D | 10/20/2025 |

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: TETR06

Lab Code: ACE | SDG NO.: Q3371

Lab File ID: BN037860.D | DFTPP Injection Date: 09/23/2025

Instrument ID: BNA_N | DFTPP Injection Time: 11:33

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 68 | Less than 2.0% of mass 69 | 0.7 ( 1.8 ) 1 |
| 69 | Mass 69 relative abundance | 100 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.6 ) 1 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.9 |
| 365 | Greater than 1% of mass 198 | 4.2 |
| 441 | Present, but less than mass 443 | 72.6 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 17.7 (20.8) 2 |

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDICC0.1 | SSTDICC0.1 | BN037861.D | 09/23/2025 | 12:13 |
| SSTDICC0.2 | SSTDICC0.2 | BN037862.D | 09/23/2025 | 12:49 |
| SSTDICCC0.4 | SSTDICCC0.4 | BN037863.D | 09/23/2025 | 13:25 |
| SSTDICC0.8 | SSTDICC0.8 | BN037864.D | 09/23/2025 | 14:02 |
| SSTDICC1.6 | SSTDICC1.6 | BN037865.D | 09/23/2025 | 14:38 |
| SSTDICC3.2 | SSTDICC3.2 | BN037866.D | 09/23/2025 | 15:15 |
| SSTDICC5.0 | SSTDICC5.0 | BN037867.D | 09/23/2025 | 15:51 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: TETR06

Lab Code: ACE | SDG NO.: Q3371

Lab File ID: BN038100.D | DFTPP Injection Date: 10/20/2025

Instrument ID: BNA_N | DFTPP Injection Time: 16:41

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 68 | Less than 2.0% of mass 69 | 0.7 ( 1.8 ) 1 |
| 69 | Mass 69 relative abundance | 100 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.5 ) 1 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.8 |
| 365 | Greater than 1% of mass 198 | 3.6 |
| 441 | Present, but less than mass 443 | 82.8 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 17 (19.6) 2 |

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC0.4 | SSTDCCC0.4 | BN038101.D | 10/20/2025 | 17:20 |
| PB170167BL | PB170167BL | BN038102.D | 10/20/2025 | 17:56 |
| PB170167BS | PB170167BS | BN038103.D | 10/20/2025 | 18:33 |
| PB170167BSD | PB170167BSD | BN038104.D | 10/20/2025 | 19:09 |
| BP-VPB-184-EB-20251016 | Q3371-02 | BN038105.D | 10/20/2025 | 19:45 |
| VPB184-HYD-20251010 | Q3371-03 | BN038106.D | 10/20/2025 | 20:21 |
| BP-VPB-184-GW-920-922 | Q3371-05 | BN038107.D | 10/20/2025 | 20:58 |
| VPB184-HYD-20251016 | Q3371-06 | BN038108.D | 10/20/2025 | 21:34 |
| SSTDCCC0.4EC | SSTDCCC0.4 | BN038109.D | 10/20/2025 | 22:10 |

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3371

Client ID : SSTDCCC0.4 Date Analyzed: 10/20/2025

Lab File ID: BN038101.D Time Analyzed: 17:20

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 8494 | 7.789 | 23762 | 10.58 | 12771 | 14.44 |
| | UPPER LIMIT | 16988 | 8.289 | 47524 | 11.084 | 25542 | 14.941 |
| | LOWER LIMIT | 4247 | 7.289 | 11881 | 10.084 | 6385.5 | 13.941 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB170167BL | 8486 | 7.79 | 21914 | 10.59 | 10397 | 14.45 |
| 02 | PB170167BS | 7519 | 7.79 | 19915 | 10.58 | 9572 | 14.44 |
| 03 | PB170167BSD | 15910 | 7.79 | 42753 | 10.58 | 20532 | 14.44 |
| 04 | BP-VPB-184-EB-20251016 | 6197 | 7.79 | 16002 | 10.58 | 8401 | 14.44 |
| 05 | VPB184-HYD-20251010 | 7049 | 7.79 | 18584 | 10.58 | 9633 | 14.44 |
| 06 | BP-VPB-184-GW-920-922 | 7237 | 7.79 | 19084 | 10.58 | 10109 | 14.44 |
| 07 | VPB184-HYD-20251016 | 7491 | 7.79 | 19850 | 10.58 | 10193 | 14.44 |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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Fax : 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3371

Client ID: SSTDCCC0.4 Date Analyzed: 10/20/2025

Lab File ID: BN038101.D Time Analyzed: 17:20

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 22871 | 17.198 | 16306 | 21.384 | 14546 | 23.701 |
| | UPPER LIMIT | 45742 | 17.698 | 32612 | 21.884 | 29092 | 24.201 |
| | LOWER LIMIT | 11435.5 | 16.698 | 8153 | 20.884 | 7273 | 23.201 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB170167BL | 17174 | 17.20 | 12295 | 21.38 | 12453 | 23.70 |
| 02 | PB170167BS | 16635 | 17.20 | 10986 | 21.38 | 10158 | 23.70 |
| 03 | PB170167BSD | 36706 | 17.20 | 24714 | 21.38 | 22637 | 23.70 |
| 04 | BP-VPB-184-EB-20251016 | 17071 | 17.20 | 15030 | 21.38 | 14485 | 23.70 |
| 05 | VPB184-HYD-20251010 | 18045 | 17.20 | 14009 | 21.38 | 12701 | 23.70 |
| 06 | BP-VPB-184-GW-920-922 | 20161 | 17.20 | 17522 | 21.38 | 17404 | 23.69 |
| 07 | VPB184-HYD-20251016 | 19689 | 17.20 | 16604 | 21.38 | 14840 | 23.69 |

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

# QC SAMPLE DATA

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | |
| Project: | NWIRP Bethpage 112G08005-WE13 | Date Received: | |
| Client Sample ID: | PB170167BL | SDG No.: | Q3371 |
| Lab Sample ID: | PB170167BL | Matrix: | Water |
| Analytical Method: | SW8270ESIM Level : LOW | % Solid: | 0 |
| Sample Wt/Vol: | 1000 mL Final Vol: 1000 uL | Test: | SVOC-SIMGroup1 |
| Prep Method : | Prep Date: 10/20/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.20 | U | 1 | 0.070 | 0.20 | 0.20 | ug/L | 10/20/25 17:56 | PB170167 |
| **SURROGATES** | | | | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.34 | | | 30 - 150 | | 85% | SPK: 0.4 | | |
| 93951-69-0 | Fluoranthene-d10 | 0.33 | | | 30 - 150 | | 83% | SPK: 0.4 | | |
| 4165-60-0 | Nitrobenzene-d5 | 0.36 | | | 55 - 111 | | 90% | SPK: 0.4 | | |
| 321-60-8 | 2-Fluorobiphenyl | 0.39 | | | 53 - 106 | | 98% | SPK: 0.4 | | |
| 1718-51-0 | Terphenyl-d14 | 0.45 | | | 58 - 132 | | 113% | SPK: 0.4 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 8490 | | | | | | | | |
| 1146-65-2 | Naphthalene-d8 | 21900 | | | | | | | | |
| 15067-26-2 | Acenaphthene-d10 | 10400 | | | | | | | | |
| 1517-22-2 | Phenanthrene-d10 | 17200 | | | | | | | | |
| 1719-03-5 | Chrysene-d12 | 12300 | | | | | | | | |
| 1520-96-3 | Perylene-d12 | 12500 | | | | | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | |
| Project: | NWIRP Bethpage 112G08005-WE13 | Date Received: | |
| Client Sample ID: | PB170167BS | SDG No.: | Q3371 |
| Lab Sample ID: | PB170167BS | Matrix: | Water |
| Analytical Method: | SW8270ESIM Level : LOW | % Solid: | 0 |
| Sample Wt/Vol: | 1000 mL Final Vol: 1000 uL | Test: | SVOC-SIMGroup1 |
| Prep Method : | Prep Date: 10/20/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.38 | | 1 | 0.070 | 0.20 | 0.20 | ug/L | 10/20/25 18:33 | PB170167 |
| **SURROGATES** | | | | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.40 | | | 30 - 150 | | 99% | SPK: 0.4 | | |
| 93951-69-0 | Fluoranthene-d10 | 0.34 | | | 30 - 150 | | 85% | SPK: 0.4 | | |
| 4165-60-0 | Nitrobenzene-d5 | 0.42 | | | 55 - 111 | | 104% | SPK: 0.4 | | |
| 321-60-8 | 2-Fluorobiphenyl | 0.44 | * | | 53 - 106 | | 111% | SPK: 0.4 | | |
| 1718-51-0 | Terphenyl-d14 | 0.51 | | | 58 - 132 | | 127% | SPK: 0.4 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 7520 | | | | | | | | |
| 1146-65-2 | Naphthalene-d8 | 19900 | | | | | | | | |
| 15067-26-2 | Acenaphthene-d10 | 9570 | | | | | | | | |
| 1517-22-2 | Phenanthrene-d10 | 16600 | | | | | | | | |
| 1719-03-5 | Chrysene-d12 | 11000 | | | | | | | | |
| 1520-96-3 | Perylene-d12 | 10200 | | | | | | | | |

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A = Aldol-Condensation Reaction Products

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | |
| Project: | NWIRP Bethpage 112G08005-WE13 | Date Received: | |
| Client Sample ID: | PB170167BSD | SDG No.: | Q3371 |
| Lab Sample ID: | PB170167BSD | Matrix: | Water |
| Analytical Method: | SW8270ESIM Level : LOW | % Solid: | 0 |
| Sample Wt/Vol: | 1000 mL Final Vol: 1000 uL | Test: | SVOC-SIMGroup1 |
| Prep Method : | Prep Date: 10/20/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.35 | | 1 | 0.070 | 0.20 | 0.20 | ug/L | 10/20/25 19:09 | PB170167 |
| **SURROGATES** | | | | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.36 | | | 30 - 150 | | 90% | SPK: 0.4 | | |
| 93951-69-0 | Fluoranthene-d10 | 0.31 | | | 30 - 150 | | 78% | SPK: 0.4 | | |
| 4165-60-0 | Nitrobenzene-d5 | 0.38 | | | 55 - 111 | | 95% | SPK: 0.4 | | |
| 321-60-8 | 2-Fluorobiphenyl | 0.42 | | | 53 - 106 | | 105% | SPK: 0.4 | | |
| 1718-51-0 | Terphenyl-d14 | 0.47 | | | 58 - 132 | | 117% | SPK: 0.4 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 15900 | | | | | | | | |
| 1146-65-2 | Naphthalene-d8 | 42800 | | | | | | | | |
| 15067-26-2 | Acenaphthene-d10 | 20500 | | | | | | | | |
| 1517-22-2 | Phenanthrene-d10 | 36700 | | | | | | | | |
| 1719-03-5 | Chrysene-d12 | 24700 | | | | | | | | |
| 1520-96-3 | Perylene-d12 | 22600 | | | | | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

# CALIBRATION SUMMARY

# Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN092325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Sep 24 11:00:01 2025
Response Via : Initial Calibration

Calibration Files
0.1 =BN037861.D 0.2 =BN037862.D 0.4 =BN037863.D 0.8 =BN037864.D 1.6 =BN037865.D 3.2 =BN037866.D 5 =BN037867.D

| | | Compound | 0.1 | 0.2 | 0.4 | 0.8 | 1.6 | 3.2 | 5 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | | |
| 2) | | 1,4-Dioxane | 0.413 | 0.410 | 0.403 | 0.425 | 0.410 | 0.376 | 0.406 | 4.04 | |
| 3) | | n-Nitrosodimet... | 0.541 | 0.517 | 0.526 | 0.561 | 0.549 | 0.547 | 0.540 | 3.03 | |
| 4) | S | 2-Fluorophenol | 0.944 | 0.921 | 0.856 | 0.839 | 0.908 | 0.923 | 0.998 | 0.913 | 5.84 |
| 5) | S | Phenol-d6 | 1.190 | 1.200 | 1.118 | 1.088 | 1.211 | 1.236 | 1.353 | 1.199 | 7.15 |
| 6) | | bis(2-Chloroet... | 1.133 | 1.096 | 1.082 | 1.066 | 1.150 | 1.124 | 1.143 | 1.113 | 2.89 |
| 7) | I | Naphthalene-d8 | ----------ISTD---------- | | | | | | | | |
| 8) | S | Nitrobenzene-d5 | 0.299 | 0.289 | 0.289 | 0.290 | 0.310 | 0.320 | 0.338 | 0.305 | 6.14 |
| 9) | | Naphthalene | 1.105 | 1.089 | 1.048 | 1.051 | 1.123 | 1.137 | 1.160 | 1.102 | 3.84 |
| 10) | | Hexachlorobuta... | 0.198 | 0.184 | 0.182 | 0.183 | 0.192 | 0.188 | 0.188 | 0.188 | 2.94 |
| 11) | SURR | 2-Methylnaphth... | 0.515 | 0.518 | 0.499 | 0.504 | 0.553 | 0.587 | 0.714 | 0.556 | 13.74 |
| 12) | | 2-Methylnaphth... | 0.678 | 0.681 | 0.668 | 0.682 | 0.754 | 0.775 | 0.802 | 0.720 | 7.68 |
| 13) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 14) | S | 2,4,6-Tribromo... | 0.148 | 0.142 | 0.135 | 0.139 | 0.163 | 0.184 | | 0.152 | 12.15 |
| 15) | S | 2-Fluorobiphenyl | 1.660 | 1.631 | 1.559 | 1.547 | 1.654 | 1.650 | 1.762 | 1.638 | 4.36 |
| 16) | | Acenaphthylene | 1.698 | 1.721 | 1.663 | 1.680 | 1.907 | 1.951 | 2.094 | 1.816 | 9.23 |
| 17) | | Acenaphthene | 1.262 | 1.230 | 1.198 | 1.208 | 1.351 | 1.371 | 1.437 | 1.294 | 7.16 |
| 18) | | Fluorene | 1.455 | 1.455 | 1.452 | 1.466 | 1.664 | 1.717 | 1.748 | 1.565 | 8.77 |
| 19) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 20) | | 4,6-Dinitro-2-... | 0.041 | 0.044 | 0.046 | 0.058 | 0.071 | 0.084 | 0.057 | 29.75 | |
| 21) | | 4-Bromophenyl-... | 0.252 | 0.247 | 0.244 | 0.244 | 0.272 | 0.275 | 0.291 | 0.261 | 7.07 |
| 22) | | Hexachlorobenzene | 0.317 | 0.312 | 0.305 | 0.300 | 0.324 | 0.323 | 0.332 | 0.316 | 3.53 |
| 23) | | Atrazine | 0.180 | 0.181 | 0.172 | 0.178 | 0.205 | 0.224 | 0.249 | 0.199 | 14.70 |
| 24) | | Pentachlorophenol | 0.101 | 0.092 | 0.097 | 0.116 | 0.136 | | 0.108 | 16.50 | |
| 25) | | Phenanthrene | 1.301 | 1.271 | 1.230 | 1.224 | 1.358 | 1.379 | 1.452 | 1.316 | 6.37 |
| 26) | | Anthracene | 1.034 | 1.035 | 1.023 | 1.057 | 1.209 | 1.275 | 1.361 | 1.142 | 12.10 |
| 27) | SURR | Fluoranthene-d10 | 0.880 | 0.918 | 0.887 | 0.900 | 1.004 | 1.085 | 1.370 | 1.006 | 17.59 |
| 28) | | Fluoranthene | 1.278 | 1.315 | 1.311 | 1.358 | 1.555 | 1.617 | 1.713 | 1.450 | 12.07 |
| 29) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 30) | | Pyrene | 1.576 | 1.600 | 1.521 | 1.476 | 1.607 | 1.595 | 1.679 | 1.579 | 4.12 |
| 31) | S | Terphenyl-d14 | 0.799 | 0.791 | 0.753 | 0.735 | 0.798 | 0.809 | 0.893 | 0.797 | 6.34 |
| 32) | | Benzo(a)anthra... | 1.376 | 1.359 | 1.294 | 1.285 | 1.423 | 1.483 | 1.567 | 1.398 | 7.27 |
| 33) | | Chrysene | 1.508 | 1.526 | 1.462 | 1.446 | 1.559 | 1.512 | 1.569 | 1.512 | 3.03 |
| 34) | | Bis(2-ethylhex... | 0.592 | 0.487 | 0.476 | 0.518 | 0.569 | 0.676 | 0.553 | 13.57 | |
| 35) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | | |

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN092325.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 36) | | Indeno(1,2,3-c... | 1.715 | 1.672 | 1.658 | 1.707 | 1.887 | 1.996 | 2.159 | 1.828 | 10.52 |
| 37) | | Benzo(b)fluora... | 1.599 | 1.606 | 1.641 | 1.590 | 1.810 | 1.848 | 1.981 | 1.725 | 8.95 |
| 38) | | Benzo(k)fluora... | 1.620 | 1.586 | 1.597 | 1.628 | 1.875 | 1.917 | 1.926 | 1.736 | 9.26 |
| 39) | C | Benzo(a)pyrene | 1.254 | 1.296 | 1.231 | 1.254 | 1.413 | 1.492 | 1.610 | 1.364 | 10.61 |
| 40) | | Dibenzo(a,h)an... | 1.285 | 1.283 | 1.303 | 1.333 | 1.495 | 1.587 | 1.705 | 1.427 | 11.87 |
| 41) | | Benzo(g,h,i)pe... | 1.407 | 1.381 | 1.404 | 1.397 | 1.521 | 1.613 | 1.773 | 1.499 | 9.85 |

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TETR06

Lab Code: ACE SDG No.: Q3371

Instrument ID: BNA_N Calibration Date/Time: 10/20/2025 17:20

Lab File ID: BN038101.D Init. Calib. Date(s): 09/23/2025 09/23/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:13 15:51

GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.556 | 0.539 | | -3.1 | 20.0 |
| Fluoranthene-d10 | 1.006 | 0.870 | | -13.5 | 20.0 |
| 2-Fluorophenol | 0.913 | 0.879 | | -3.7 | 20.0 |
| Phenol-d6 | 1.199 | 1.019 | | -15.0 | 20.0 |
| Nitrobenzene-d5 | 0.305 | 0.277 | | -9.2 | 20.0 |
| 2-Fluorobiphenyl | 1.638 | 1.602 | | -2.2 | 20.0 |
| 2,4,6-Tribromophenol | 0.152 | 0.135 | | -11.2 | 20.0 |
| Terphenyl-d14 | 0.797 | 0.829 | | 4.0 | 20.0 |
| 1,4-Dioxane | 0.406 | 0.472 | | 16.3 | 20.0 |

All other compounds must meet a minimum RRF of 0.010.

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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TETR06

Lab Code: ACE SDG No.: Q3371

Instrument ID: BNA_N Calibration Date/Time: 10/20/2025 22:10

Lab File ID: BN038109.D Init. Calib. Date(s): 09/23/2025 09/23/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 12:13 15:51

GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.556 | 0.519 | | -6.7 | 50.0 |
| Fluoranthene-d10 | 1.006 | 0.890 | | -11.5 | 50.0 |
| 2-Fluorophenol | 0.913 | 0.912 | | -0.1 | 50.0 |
| Phenol-d6 | 1.199 | 1.015 | | -15.3 | 50.0 |
| Nitrobenzene-d5 | 0.305 | 0.273 | | -10.5 | 50.0 |
| 2-Fluorobiphenyl | 1.638 | 1.528 | | -6.7 | 50.0 |
| 2,4,6-Tribromophenol | 0.152 | 0.126 | | -17.1 | 50.0 |
| Terphenyl-d14 | 0.797 | 0.855 | | 7.3 | 50.0 |
| 1,4-Dioxane | 0.406 | 0.486 | | 19.7 | 50.0 |

All other compounds must meet a minimum RRF of 0.010.