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

# Surrogate Summary

**SDG No.:** P3671

**Client:** JACOBS Engineering Group, Inc.

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | Recovery | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|
| P3671-01 | S-904-J-SO-0-0.5-081924 | 1,2-Dichloroethane-d4 | 50 | 56.3 | 113 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 55.0 | 110 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 57.2 | 114 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 50.0 | 100 | | 70 (29) | 130 (146) |
| P3671-02 | S-904-J-SO-0.5-1.0-081924 | 1,2-Dichloroethane-d4 | 50 | 50.6 | 101 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 49.1 | 98 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 47.2 | 94 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 40.2 | 80 | | 70 (29) | 130 (146) |
| P3671-03 | S-911-K1-SO-0-0.5-081924 | 1,2-Dichloroethane-d4 | 50 | 40.8 | 82 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 46.6 | 93 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 44.4 | 89 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 25.3 | 51 | * | 70 (29) | 130 (146) |
| P3671-03RE | S-911-K1-SO-0-0.5-081924RE | 1,2-Dichloroethane-d4 | 50 | 45.6 | 91 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 52.5 | 105 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 45.0 | 90 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 38.0 | 76 | | 70 (29) | 130 (146) |
| P3671-04 | S-911-K1-SO-0.5-1-081924 | 1,2-Dichloroethane-d4 | 50 | 51.7 | 103 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 51.0 | 102 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 47.7 | 95 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 34.3 | 69 | * | 70 (29) | 130 (146) |
| P3671-04RE | S-911-K1-SO-0.5-1-081924RE | 1,2-Dichloroethane-d4 | 50 | 36.7 | 73 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 53.4 | 107 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 54.0 | 108 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 30.3 | 61 | * | 70 (29) | 130 (146) |
| P3671-05 | S-911-K1-SO-0-0.5-081924-FD | 1,2-Dichloroethane-d4 | 50 | 51.9 | 104 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 50.3 | 101 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 46.8 | 94 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 36.5 | 73 | | 70 (29) | 130 (146) |
| P3671-05RE | S-911-K1-SO-0-0.5-081924-FDRE | 1,2-Dichloroethane-d4 | 50 | 53.9 | 108 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 48.6 | 97 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 45.2 | 90 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 28.6 | 57 | * | 70 (29) | 130 (146) |
| P3671-06 | S-905-J-SO-0-0.5-081924 | 1,2-Dichloroethane-d4 | 50 | 55.0 | 110 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 49.8 | 100 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 48.2 | 96 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 44.0 | 88 | | 70 (29) | 130 (146) |
| P3671-07 | S-905-J-SO-0-0.5-081924-FD | 1,2-Dichloroethane-d4 | 50 | 58.0 | 116 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 50.2 | 100 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 48.1 | 96 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 47.0 | 94 | | 70 (29) | 130 (146) |
| P3671-08 | S-905-J-SO-0.5-1.0-081924 | 1,2-Dichloroethane-d4 | 50 | 56.7 | 113 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 49.8 | 100 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 48.6 | 97 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 45.2 | 90 | | 70 (29) | 130 (146) |
| P3671-09 | S-928-K1-SO-0-0.5-081924 | 1,2-Dichloroethane-d4 | 50 | 53.6 | 107 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 48.5 | 97 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 51.1 | 102 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 41.3 | 82 | | 70 (29) | 130 (146) |
| P3671-09RE | S-928-K1-SO-0-0.5-081924RE | 1,2-Dichloroethane-d4 | 50 | 48.9 | 98 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 50.7 | 101 | | 70 (54) | 130 (147) |

( ) = LABORATORY INHOUSE LIMIT

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# Surrogate Summary

**SDG No.:** P3671

**Client:** JACOBS Engineering Group, Inc.

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | Recovery | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|
| P3671-09RE | S-928-K1-SO-0-0.5-081924RE | Toluene-d8 | 50 | 48.7 | 97 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 34.0 | 68 | * | 70 (29) | 130 (146) |
| P3671-10 | S-928-K1-SO-0.5-1-081924 | 1,2-Dichloroethane-d4 | 50 | 18.0 | 36 | * | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 39.2 | 78 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 41.8 | 84 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 8.44 | 17 | * | 70 (29) | 130 (146) |
| P3671-10RE | S-928-K1-SO-0.5-1-081924RE | 1,2-Dichloroethane-d4 | 50 | 54.0 | 108 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 47.9 | 96 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 47.5 | 95 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 34.3 | 69 | * | 70 (29) | 130 (146) |
| P3671-11 | S-903-J-SO-0-0.5-081924 | 1,2-Dichloroethane-d4 | 50 | 54.0 | 108 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 49.5 | 99 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 48.4 | 97 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 48.2 | 96 | | 70 (29) | 130 (146) |
| P3671-12 | S-903-J-SO-0.5-1.0-081924 | 1,2-Dichloroethane-d4 | 50 | 48.0 | 96 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 51.3 | 103 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 52.2 | 104 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 46.3 | 93 | | 70 (29) | 130 (146) |
| P3671-13 | S-912-J-SO-0-0.5-081924 | 1,2-Dichloroethane-d4 | 50 | 51.2 | 102 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 51.6 | 103 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 48.1 | 96 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 28.3 | 57 | * | 70 (29) | 130 (146) |
| P3671-13RE | S-912-J-SO-0-0.5-081924RE | 1,2-Dichloroethane-d4 | 50 | 47.9 | 96 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 49.4 | 99 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 46.9 | 94 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 27.5 | 55 | * | 70 (29) | 130 (146) |
| P3671-14 | S-912-J-SO-0.5-1-081924 | 1,2-Dichloroethane-d4 | 50 | 59.8 | 120 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 46.2 | 92 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 48.5 | 97 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 36.8 | 74 | | 70 (29) | 130 (146) |
| VY0821SBL02 | VY0821SBL02 | 1,2-Dichloroethane-d4 | 50 | 57.0 | 114 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 51.6 | 103 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 49.5 | 99 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 45.5 | 91 | | 70 (29) | 130 (146) |
| VY0821SBS02 | VY0821SBS02 | 1,2-Dichloroethane-d4 | 50 | 49.8 | 100 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 50.5 | 101 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 50.0 | 100 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 48.0 | 96 | | 70 (29) | 130 (146) |
| VY0821SBSD02 | VY0821SBSD02 | 1,2-Dichloroethane-d4 | 50 | 51.8 | 104 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 47.9 | 96 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 47.4 | 95 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 46.9 | 94 | | 70 (29) | 130 (146) |
| VY0822SBL01 | VY0822SBL01 | 1,2-Dichloroethane-d4 | 50 | 50.0 | 100 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 48.1 | 96 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 47.0 | 94 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 41.5 | 83 | | 70 (29) | 130 (146) |
| VY0822SBS01 | VY0822SBS01 | 1,2-Dichloroethane-d4 | 50 | 51.7 | 103 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 51.6 | 103 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 52.5 | 105 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 52.8 | 106 | | 70 (29) | 130 (146) |

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