

All4, Inc.

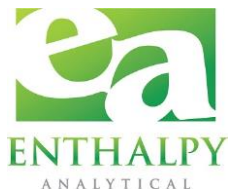
2393 Kimberton Road
Kimberton, PA 19442

U.S. Steel Corp – Clariton Works
Clariton, PA
Client Project # 00701-0002.00

Analytical Report
(1022-099)

EPA Method TO-15

TO-15 Target Compound List



Enthalpy Analytical, LLC

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I certify that to the best of my knowledge all analytical data presented in this report:

- Have been checked for completeness
- Are accurate, error-free, and legible
- Have been conducted in accordance with approved protocol, and that all deviations and analytical problems are summarized in the appropriate narrative(s)

This analytical report was prepared in Portable Document Format (.PDF) and contains 48 pages.

Report Issued: 11/28/22



Results

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC01-221025-S
Sample Info. 1022-099; 500mL load; Can #1881
Sampling Date 2022-10-25 10:45
Received Date 2022-10-28 00:00
Sample Type Sample
Batch Xavier_X102822A.v3
Data File X2202004.D
Dilution 1.000
Pressurization Factor 1.749
Acquisition Date 2022-10-28 16:59
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-099.VOC01-221025-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Propylene	0.689	0.0676	0.0612	1.18	0.116	0.105	m
Freon 12 (CCl2F2)	0.476	0.0685	0.0612	2.35	0.338	0.302	
Freon 114 (C2Cl2F4)	ND	0.701	0.0612	ND	4.90	0.428	
Chloromethane	0.565	0.0692	0.0612	1.17	0.143	0.126	
Chloroethene (Vinyl chloride)	ND	0.0699	0.0612	ND	0.179	0.156	
1,3-Butadiene	ND	0.0681	0.0612	ND	0.150	0.135	
Bromomethane	ND	0.0686	0.0612	ND	0.266	0.237	
Chloroethane	ND	0.0711	0.0612	ND	0.187	0.161	
Bromoethene (Vinyl bromide)	ND	0.0684	0.0612	ND	0.299	0.268	
Freon 11 (CCl3F)	0.220	0.0738	0.0612	1.23	0.414	0.344	m
Ethanol	3.54	0.0693	0.0699	6.66	0.131	0.132	
Acrolein	0.268	0.0689	0.0612	0.614	0.158	0.140	
Freon 113 (C2Cl3F3)	0.0616	0.0710	0.0612	0.472	0.544	0.469	J
1,1-Dichloroethene	ND	0.0704	0.0612	ND	0.279	0.242	
Acetone	3.33	0.0701	0.0612	7.90	0.166	0.145	
Carbon disulfide	ND	0.0697	0.0612	ND	0.217	0.190	
Isopropyl alcohol	0.506	0.0697	0.0612	1.24	0.171	0.150	
Allyl chloride (3-chloropropene)	ND	0.0755	0.0612	ND	0.236	0.191	
Acetonitrile	0.196	0.0697	0.0612	0.329	0.117	0.103	
Methylene chloride	0.142	0.0716	0.0612	0.492	0.249	0.212	
trans-1,2-Dichloroethene	ND	0.0713	0.0612	ND	0.283	0.242	
Methyl tert-butyl ether	ND	0.0719	0.0612	ND	0.259	0.221	
Acrylonitrile	ND	0.0712	0.0612	ND	0.154	0.133	
Hexane	0.135	0.0711	0.0612	0.475	0.250	0.216	
1,1-Dichloroethane	ND	0.0695	0.0612	ND	0.281	0.248	
Vinyl acetate	ND	0.0716	0.0612	ND	0.252	0.215	
cis-1,2-Dichloroethene	ND	0.0706	0.0612	ND	0.280	0.242	
Methyl ethyl ketone (2-Butanone)	0.414	0.0723	0.0612	1.22	0.213	0.180	m
Ethyl acetate	0.0991	0.0698	0.0612	0.357	0.251	0.220	m
Chloroform	ND	0.0702	0.0612	ND	0.342	0.299	
Tetrahydrofuran	ND	0.0708	0.0612	ND	0.209	0.180	
1,1,1-Trichloroethane	ND	0.0706	0.0612	ND	0.385	0.334	
Cyclohexane	0.0971	0.0717	0.0612	0.334	0.247	0.211	

Enthalpy Analytical

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 All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC01-221025-S
 Sample Info. 1022-099; 500mL load; Can #1881
 Sampling Date 2022-10-25 10:45
 Received Date 2022-10-28 00:00
 Sample Type Sample
 Batch Xavier_X102822A.v3
 Data File X2202004.D
 Dilution 1.000
 Pressurization Factor 1.749
 Acquisition Date 2022-10-28 16:59
 Instrument Method TO15_SCNV6.M
 Matrix Air
 Analyst TDD
 Instrument Xavier
 Enthalpy ID 1022-099.VOC01-221025-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m ³)	RL (ug/m ³)	MDL (ug/m ³)	Flags
Carbon tetrachloride	0.0801	0.0704	0.0612	0.503	0.443	0.385	
Benzene	0.763	0.0704	0.0612	2.43	0.225	0.195	
2,2,4-trimethylpentane	ND	0.0723	0.0612	ND	0.338	0.286	
1,2-Dichloroethane	ND	0.0720	0.0612	ND	0.291	0.248	
Heptane	0.0997	0.0709	0.0612	0.408	0.290	0.251	
Trichloroethene	ND	0.0707	0.0612	ND	0.380	0.329	
1,2-Dichloropropane	ND	0.0704	0.0612	ND	0.325	0.283	
Methyl methacrylate	ND	0.0732	0.0612	ND	0.300	0.250	
1,4-Dioxane	ND	0.0702	0.0612	ND	0.253	0.220	
Bromodichloromethane	ND	0.0706	0.0612	ND	0.473	0.410	
cis-1,3-Dichloropropene	ND	0.0695	0.0612	ND	0.315	0.278	
Methyl isobutyl ketone	ND	0.0727	0.0612	ND	0.298	0.251	
Toluene	1.29	0.0712	0.0612	4.85	0.268	0.230	
trans-1,3-Dichloropropene	ND	0.0722	0.0612	ND	0.327	0.278	
1,1,2-Trichloroethane	ND	0.0711	0.0612	ND	0.388	0.334	
Tetrachloroethene	ND	0.0716	0.0612	ND	0.485	0.415	
2-Hexanone (Methyl butyl ketone)	ND	0.0716	0.0612	ND	0.293	0.251	
Dibromochloromethane	ND	0.0705	0.0612	ND	0.600	0.521	
1,2-Dibromoethane	ND	0.0716	0.0612	ND	0.549	0.470	
Chlorobenzene	ND	0.0720	0.0612	ND	0.331	0.282	
Ethylbenzene	0.0687	0.0695	0.0612	0.298	0.301	0.266	J
1,1,1,2-Tetrachloroethane	ND	0.0705	0.0612	ND	0.484	0.420	
m-/p-Xylenes	0.248	0.0709	0.0612	1.08	0.308	0.266	
o-Xylene	0.105	0.0701	0.0612	0.454	0.304	0.266	
Styrene	ND	0.0685	0.0612	ND	0.292	0.261	
Bromoform	ND	0.0702	0.0612	ND	0.725	0.632	
1,1,2,2-Tetrachloroethane	ND	0.0707	0.0612	ND	0.485	0.420	
4-Ethyltoluene	0.0640	0.0711	0.0612	0.314	0.349	0.301	J, m
2-Chlorotoluene	ND	0.0706	0.0612	ND	0.365	0.317	
1,3,5-Trimethylbenzene	ND	0.0709	0.0612	ND	0.348	0.301	
1,2,4-Trimethylbenzene	0.100	0.0700	0.0612	0.492	0.344	0.301	
1,3-Dichlorobenzene	ND	0.0711	0.0612	ND	0.427	0.368	
1,4-Dichlorobenzene	ND	0.0703	0.0612	ND	0.422	0.368	

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC01-221025-S
Sample Info. 1022-099; 500mL load; Can #1881
Sampling Date 2022-10-25 10:45
Received Date 2022-10-28 00:00
Sample Type Sample
Batch Xavier_X102822A.v3
Data File X2202004.D
Dilution 1.000
Pressurization Factor 1.749
Acquisition Date 2022-10-28 16:59
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-099.VOC01-221025-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Benzyl chloride	ND	0.0704	0.0612	ND	0.364	0.317	
1,2-Dichlorobenzene	ND	0.0709	0.0612	ND	0.426	0.368	
1,2,4-Trichlorobenzene	ND	0.0697	0.0612	ND	0.517	0.454	
Hexachlorobutadiene	ND	0.0691	0.0612	ND	0.737	0.652	
Naphthalene	0.114	0.0704	0.0612	0.598	0.369	0.321	
1-Bromopropane	ND	0.0694	0.0612	ND	0.349	0.308	
1-Octene	ND	0.0690	0.0612	ND	0.317	0.281	
n-Octane	ND	0.0720	0.0612	ND	0.336	0.286	
Isopropylbenzene	ND	0.0711	0.0612	ND	0.349	0.301	
n-Propylbenzene	ND	0.0718	0.0612	ND	0.353	0.301	

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	762,672	11.05	5.21	pass
1,4-Difluorobenzene (IS)	2,882,605	12.47	5.16	pass
Chlorobenzene-d5 (IS)	2,482,195	16.61	4.92	pass

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC02-221025-S
 Sample Info. 1022-099; 500mL load; Can #1760
 Sampling Date 2022-10-25 10:39
 Received Date 2022-10-28 00:00
 Sample Type Sample
 Batch Xavier_X102822A.v3
 Data File X2202005.D
 Dilution 1.000
 Pressurization Factor 1.769
 Acquisition Date 2022-10-28 17:53
 Instrument Method TO15_SCNV6.M
 Matrix Air
 Analyst TDD
 Instrument Xavier
 Enthalpy ID 1022-099.VOC02-221025-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Propylene	0.658	0.0683	0.0619	1.13	0.118	0.106	
Freon 12 (CCl2F2)	0.443	0.0693	0.0619	2.19	0.342	0.306	
Freon 114 (C2Cl2F4)	ND	0.709	0.0619	ND	4.95	0.432	
Chloromethane	0.525	0.0700	0.0619	1.08	0.144	0.128	
Chloroethene (Vinyl chloride)	ND	0.0707	0.0619	ND	0.181	0.158	
1,3-Butadiene	ND	0.0688	0.0619	ND	0.152	0.137	
Bromomethane	ND	0.0694	0.0619	ND	0.269	0.240	
Chloroethane	ND	0.0719	0.0619	ND	0.190	0.163	
Bromoethene (Vinyl bromide)	ND	0.0692	0.0619	ND	0.302	0.271	
Freon 11 (CCl3F)	0.226	0.0746	0.0619	1.27	0.419	0.348	
Ethanol	3.14	0.0701	0.0707	5.91	0.132	0.133	
Acrolein	0.183	0.0697	0.0619	0.419	0.160	0.142	
Freon 113 (C2Cl3F3)	ND	0.0718	0.0619	ND	0.550	0.474	
1,1-Dichloroethene	ND	0.0712	0.0619	ND	0.282	0.245	
Acetone	3.22	0.0709	0.0619	7.64	0.168	0.147	
Carbon disulfide	ND	0.0705	0.0619	ND	0.220	0.193	
Isopropyl alcohol	0.365	0.0705	0.0619	0.897	0.173	0.152	m
Allyl chloride (3-chloropropene)	ND	0.0764	0.0619	ND	0.239	0.194	
Acetonitrile	0.195	0.0705	0.0619	0.327	0.118	0.104	
Methylene chloride	0.120	0.0724	0.0619	0.418	0.251	0.215	
trans-1,2-Dichloroethene	ND	0.0722	0.0619	ND	0.286	0.245	
Methyl tert-butyl ether	ND	0.0727	0.0619	ND	0.262	0.223	
Acrylonitrile	ND	0.0720	0.0619	ND	0.156	0.134	
Hexane	0.120	0.0719	0.0619	0.421	0.253	0.218	m
1,1-Dichloroethane	ND	0.0703	0.0619	ND	0.284	0.250	
Vinyl acetate	ND	0.0724	0.0619	ND	0.255	0.218	
cis-1,2-Dichloroethene	ND	0.0715	0.0619	ND	0.283	0.245	
Methyl ethyl ketone (2-Butanone)	0.294	0.0732	0.0619	0.867	0.216	0.182	
Ethyl acetate	0.0751	0.0706	0.0619	0.271	0.254	0.223	m
Chloroform	ND	0.0710	0.0619	ND	0.346	0.302	
Tetrahydrofuran	ND	0.0716	0.0619	ND	0.211	0.182	
1,1,1-Trichloroethane	ND	0.0715	0.0619	ND	0.390	0.338	
Cyclohexane	0.178	0.0725	0.0619	0.612	0.249	0.213	

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC02-221025-S
 Sample Info. 1022-099; 500mL load; Can #1760
 Sampling Date 2022-10-25 10:39
 Received Date 2022-10-28 00:00
 Sample Type Sample
 Batch Xavier_X102822A.v3
 Data File X2202005.D
 Dilution 1.000
 Pressurization Factor 1.769
 Acquisition Date 2022-10-28 17:53
 Instrument Method TO15_SCNV6.M
 Matrix Air
 Analyst TDD
 Instrument Xavier
 Enthalpy ID 1022-099.VOC02-221025-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Carbon tetrachloride	0.0709	0.0712	0.0619	0.446	0.448	0.389	J
Benzene	0.614	0.0712	0.0619	1.96	0.227	0.198	
2,2,4-trimethylpentane	ND	0.0732	0.0619	ND	0.342	0.289	
1,2-Dichloroethane	ND	0.0728	0.0619	ND	0.294	0.250	
Heptane	0.0985	0.0717	0.0619	0.404	0.294	0.254	
Trichloroethene	ND	0.0715	0.0619	ND	0.384	0.332	
1,2-Dichloropropane	ND	0.0712	0.0619	ND	0.329	0.286	
Methyl methacrylate	0.100	0.0741	0.0619	0.409	0.303	0.253	
1,4-Dioxane	ND	0.0710	0.0619	ND	0.256	0.223	
Bromodichloromethane	ND	0.0715	0.0619	ND	0.478	0.415	
cis-1,3-Dichloropropene	ND	0.0703	0.0619	ND	0.319	0.281	
Methyl isobutyl ketone	ND	0.0735	0.0619	ND	0.301	0.253	
Toluene	1.13	0.0720	0.0619	4.24	0.271	0.233	
trans-1,3-Dichloropropene	ND	0.0730	0.0619	ND	0.331	0.281	
1,1,2-Trichloroethane	0.130	0.0719	0.0619	0.711	0.392	0.338	
Tetrachloroethene	ND	0.0724	0.0619	ND	0.491	0.420	
2-Hexanone (Methyl butyl ketone)	ND	0.0724	0.0619	ND	0.296	0.253	
Dibromochloromethane	ND	0.0713	0.0619	ND	0.607	0.527	
1,2-Dibromoethane	ND	0.0724	0.0619	ND	0.556	0.475	
Chlorobenzene	ND	0.0729	0.0619	ND	0.335	0.285	
Ethylbenzene	ND	0.0703	0.0619	ND	0.305	0.269	
1,1,1,2-Tetrachloroethane	ND	0.0713	0.0619	ND	0.489	0.425	
m-/p-Xylenes	0.136	0.0717	0.0619	0.592	0.311	0.269	
o-Xylene	ND	0.0709	0.0619	ND	0.308	0.269	
Styrene	0.0838	0.0693	0.0619	0.357	0.295	0.264	
Bromoform	ND	0.0710	0.0619	ND	0.733	0.639	
1,1,2,2-Tetrachloroethane	ND	0.0715	0.0619	ND	0.491	0.425	
4-Ethyltoluene	ND	0.0719	0.0619	ND	0.353	0.304	
2-Chlorotoluene	ND	0.0714	0.0619	ND	0.369	0.320	
1,3,5-Trimethylbenzene	ND	0.0717	0.0619	ND	0.352	0.304	
1,2,4-Trimethylbenzene	0.0870	0.0708	0.0619	0.427	0.348	0.304	
1,3-Dichlorobenzene	ND	0.0719	0.0619	ND	0.432	0.372	
1,4-Dichlorobenzene	ND	0.0711	0.0619	ND	0.427	0.372	

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

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Received Date 2022-10-28 00:00
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Batch Xavier_X102822A.v3
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Dilution 1.000
Pressurization Factor 1.769
Acquisition Date 2022-10-28 17:53
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-099.VOC02-221025-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Benzyl chloride	ND	0.0712	0.0619	ND	0.368	0.320	
1,2-Dichlorobenzene	ND	0.0717	0.0619	ND	0.431	0.372	
1,2,4-Trichlorobenzene	ND	0.0705	0.0619	ND	0.523	0.459	
Hexachlorobutadiene	ND	0.0699	0.0619	ND	0.745	0.660	
Naphthalene	0.568	0.0712	0.0619	2.97	0.373	0.324	
1-Bromopropane	ND	0.0702	0.0619	ND	0.353	0.311	
1-Octene	ND	0.0698	0.0619	ND	0.320	0.284	
n-Octane	0.0743	0.0729	0.0619	0.347	0.340	0.289	
Isopropylbenzene	ND	0.0719	0.0619	ND	0.353	0.304	
n-Propylbenzene	ND	0.0726	0.0619	ND	0.357	0.304	

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	771,805	11.05	5.21	pass
1,4-Difluorobenzene (IS)	2,897,860	12.47	5.16	pass
Chlorobenzene-d5 (IS)	2,437,993	16.61	4.92	pass

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC03-221025-S
Sample Info. 1022-099; 500mL load; Can #1715
Sampling Date 2022-10-25 10:32
Received Date 2022-10-28 00:00
Sample Type Sample
Batch Xavier_X102822A.v3
Data File X2202006.D
Dilution 1.000
Pressurization Factor 1.749
Acquisition Date 2022-10-28 18:48
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-099.VOC03-221025-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Propylene	0.753	0.0676	0.0612	1.30	0.116	0.105	m
Freon 12 (CCl2F2)	0.450	0.0685	0.0612	2.22	0.338	0.303	
Freon 114 (C2Cl2F4)	ND	0.701	0.0612	ND	4.90	0.428	
Chloromethane	0.545	0.0692	0.0612	1.12	0.143	0.126	
Chloroethene (Vinyl chloride)	ND	0.0699	0.0612	ND	0.179	0.156	
1,3-Butadiene	ND	0.0681	0.0612	ND	0.150	0.135	
Bromomethane	ND	0.0686	0.0612	ND	0.266	0.238	
Chloroethane	ND	0.0711	0.0612	ND	0.187	0.161	
Bromoethene (Vinyl bromide)	ND	0.0684	0.0612	ND	0.299	0.268	
Freon 11 (CCl3F)	0.237	0.0738	0.0612	1.33	0.414	0.344	
Ethanol	3.48	0.0693	0.0700	6.56	0.131	0.132	
Acrolein	0.193	0.0689	0.0612	0.443	0.158	0.140	m
Freon 113 (C2Cl3F3)	ND	0.0710	0.0612	ND	0.544	0.469	
1,1-Dichloroethene	ND	0.0704	0.0612	ND	0.279	0.243	
Acetone	3.40	0.0701	0.0612	8.06	0.166	0.145	
Carbon disulfide	0.124	0.0697	0.0612	0.386	0.217	0.190	
Isopropyl alcohol	0.515	0.0697	0.0612	1.27	0.171	0.150	m
Allyl chloride (3-chloropropene)	ND	0.0756	0.0612	ND	0.236	0.191	
Acetonitrile	0.184	0.0697	0.0612	0.309	0.117	0.103	
Methylene chloride	0.129	0.0716	0.0612	0.447	0.249	0.212	
trans-1,2-Dichloroethene	ND	0.0714	0.0612	ND	0.283	0.243	
Methyl tert-butyl ether	ND	0.0719	0.0612	ND	0.259	0.221	
Acrylonitrile	ND	0.0712	0.0612	ND	0.154	0.133	
Hexane	0.0974	0.0711	0.0612	0.343	0.250	0.216	
1,1-Dichloroethane	ND	0.0695	0.0612	ND	0.281	0.248	
Vinyl acetate	ND	0.0716	0.0612	ND	0.252	0.215	
cis-1,2-Dichloroethene	ND	0.0707	0.0612	ND	0.280	0.243	
Methyl ethyl ketone (2-Butanone)	0.309	0.0723	0.0612	0.911	0.213	0.180	m
Ethyl acetate	0.255	0.0698	0.0612	0.917	0.251	0.220	m
Chloroform	ND	0.0702	0.0612	ND	0.342	0.299	
Tetrahydrofuran	ND	0.0708	0.0612	ND	0.209	0.180	
1,1,1-Trichloroethane	ND	0.0707	0.0612	ND	0.385	0.334	
Cyclohexane	0.121	0.0717	0.0612	0.415	0.247	0.211	

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC03-221025-S
Sample Info. 1022-099; 500mL load; Can #1715
Sampling Date 2022-10-25 10:32
Received Date 2022-10-28 00:00
Sample Type Sample
Batch Xavier_X102822A.v3
Data File X2202006.D
Dilution 1.000
Pressurization Factor 1.749
Acquisition Date 2022-10-28 18:48
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-099.VOC03-221025-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m ³)	RL (ug/m ³)	MDL (ug/m ³)	Flags
Carbon tetrachloride	0.0725	0.0704	0.0612	0.456	0.443	0.385	m
Benzene	0.790	0.0704	0.0612	2.52	0.225	0.195	
2,2,4-trimethylpentane	ND	0.0723	0.0612	ND	0.338	0.286	
1,2-Dichloroethane	ND	0.0720	0.0612	ND	0.291	0.248	
Heptane	0.0933	0.0709	0.0612	0.382	0.290	0.251	
Trichloroethene	ND	0.0707	0.0612	ND	0.380	0.329	
1,2-Dichloropropane	ND	0.0704	0.0612	ND	0.325	0.283	
Methyl methacrylate	ND	0.0732	0.0612	ND	0.300	0.250	
1,4-Dioxane	ND	0.0702	0.0612	ND	0.253	0.220	
Bromodichloromethane	ND	0.0707	0.0612	ND	0.473	0.410	
cis-1,3-Dichloropropene	ND	0.0695	0.0612	ND	0.315	0.278	
Methyl isobutyl ketone	ND	0.0727	0.0612	ND	0.298	0.251	
Toluene	1.09	0.0712	0.0612	4.11	0.268	0.231	
trans-1,3-Dichloropropene	ND	0.0722	0.0612	ND	0.327	0.278	
1,1,2-Trichloroethane	ND	0.0711	0.0612	ND	0.388	0.334	
Tetrachloroethene	ND	0.0716	0.0612	ND	0.485	0.415	
2-Hexanone (Methyl butyl ketone)	ND	0.0716	0.0612	ND	0.293	0.251	
Dibromochloromethane	ND	0.0705	0.0612	ND	0.600	0.521	
1,2-Dibromoethane	ND	0.0716	0.0612	ND	0.550	0.470	
Chlorobenzene	ND	0.0721	0.0612	ND	0.332	0.282	
Ethylbenzene	ND	0.0695	0.0612	ND	0.301	0.266	
1,1,1,2-Tetrachloroethane	ND	0.0705	0.0612	ND	0.484	0.420	
m-/p-Xylenes	0.0980	0.0709	0.0612	0.425	0.308	0.266	
o-Xylene	ND	0.0701	0.0612	ND	0.304	0.266	
Styrene	0.0679	0.0686	0.0612	0.289	0.292	0.261	J
Bromoform	ND	0.0702	0.0612	ND	0.725	0.632	
1,1,2,2-Tetrachloroethane	ND	0.0707	0.0612	ND	0.485	0.420	
4-Ethyltoluene	ND	0.0711	0.0612	ND	0.350	0.301	
2-Chlorotoluene	ND	0.0706	0.0612	ND	0.365	0.317	
1,3,5-Trimethylbenzene	ND	0.0709	0.0612	ND	0.348	0.301	
1,2,4-Trimethylbenzene	0.0656	0.0700	0.0612	0.322	0.344	0.301	J, m
1,3-Dichlorobenzene	ND	0.0711	0.0612	ND	0.427	0.368	
1,4-Dichlorobenzene	ND	0.0703	0.0612	ND	0.422	0.368	

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC03-221025-S
Sample Info. 1022-099; 500mL load; Can #1715
Sampling Date 2022-10-25 10:32
Received Date 2022-10-28 00:00
Sample Type Sample
Batch Xavier_X102822A.v3
Data File X2202006.D
Dilution 1.000
Pressurization Factor 1.749
Acquisition Date 2022-10-28 18:48
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-099.VOC03-221025-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Benzyl chloride	ND	0.0704	0.0612	ND	0.364	0.317	
1,2-Dichlorobenzene	ND	0.0709	0.0612	ND	0.426	0.368	
1,2,4-Trichlorobenzene	ND	0.0697	0.0612	ND	0.517	0.454	
Hexachlorobutadiene	ND	0.0691	0.0612	ND	0.737	0.652	
Naphthalene	0.239	0.0704	0.0612	1.25	0.369	0.321	
1-Bromopropane	ND	0.0694	0.0612	ND	0.349	0.308	
1-Octene	ND	0.0690	0.0612	ND	0.317	0.281	
n-Octane	ND	0.0721	0.0612	ND	0.336	0.286	
Isopropylbenzene	ND	0.0711	0.0612	ND	0.349	0.301	
n-Propylbenzene	ND	0.0718	0.0612	ND	0.353	0.301	

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	754,629	11.05	5.21	pass
1,4-Difluorobenzene (IS)	2,809,577	12.47	5.16	pass
Chlorobenzene-d5 (IS)	2,421,968	16.61	4.92	pass

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC03-221025-D
Sample Info. 1022-099; 500mL load; Can #0812
Sampling Date 2022-10-25 10:31
Received Date 2022-10-28 00:00
Sample Type Sample
Batch Xavier_X102822A.v3
Data File X2202007.D
Dilution 1.000
Pressurization Factor 1.733
Acquisition Date 2022-10-28 19:43
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-099.VOC03-221025-D.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Propylene	0.688	0.0670	0.0607	1.18	0.115	0.104	m
Freon 12 (CCl2F2)	0.456	0.0679	0.0607	2.25	0.335	0.300	
Freon 114 (C2Cl2F4)	ND	0.695	0.0607	ND	4.85	0.424	
Chloromethane	0.536	0.0686	0.0607	1.11	0.141	0.125	m
Chloroethene (Vinyl chloride)	ND	0.0693	0.0607	ND	0.177	0.155	
1,3-Butadiene	ND	0.0675	0.0607	ND	0.149	0.134	
Bromomethane	ND	0.0680	0.0607	ND	0.264	0.235	
Chloroethane	ND	0.0704	0.0607	ND	0.186	0.160	
Bromoethene (Vinyl bromide)	ND	0.0678	0.0607	ND	0.296	0.265	
Freon 11 (CCl3F)	0.226	0.0731	0.0607	1.27	0.411	0.341	
Ethanol	3.24	0.0687	0.0693	6.11	0.129	0.131	
Acrolein	0.148	0.0683	0.0607	0.340	0.156	0.139	
Freon 113 (C2Cl3F3)	0.0723	0.0704	0.0607	0.554	0.539	0.465	
1,1-Dichloroethene	ND	0.0697	0.0607	ND	0.276	0.240	
Acetone	2.72	0.0695	0.0607	6.45	0.165	0.144	
Carbon disulfide	ND	0.0691	0.0607	ND	0.215	0.189	
Isopropyl alcohol	0.415	0.0691	0.0607	1.02	0.170	0.149	m
Allyl chloride (3-chloropropene)	ND	0.0749	0.0607	ND	0.234	0.190	
Acetonitrile	0.182	0.0691	0.0607	0.305	0.116	0.102	
Methylene chloride	0.112	0.0710	0.0607	0.387	0.246	0.211	m
trans-1,2-Dichloroethene	ND	0.0707	0.0607	ND	0.280	0.240	
Methyl tert-butyl ether	ND	0.0713	0.0607	ND	0.257	0.219	
Acrylonitrile	ND	0.0706	0.0607	ND	0.153	0.132	
Hexane	0.100	0.0704	0.0607	0.353	0.248	0.214	m
1,1-Dichloroethane	ND	0.0688	0.0607	ND	0.278	0.245	
Vinyl acetate	ND	0.0709	0.0607	ND	0.250	0.213	
cis-1,2-Dichloroethene	ND	0.0700	0.0607	ND	0.277	0.240	
Methyl ethyl ketone (2-Butanone)	0.305	0.0717	0.0607	0.898	0.211	0.179	m
Ethyl acetate	0.0796	0.0692	0.0607	0.287	0.249	0.218	m
Chloroform	ND	0.0695	0.0607	ND	0.339	0.296	
Tetrahydrofuran	ND	0.0702	0.0607	ND	0.207	0.179	
1,1,1-Trichloroethane	ND	0.0700	0.0607	ND	0.382	0.331	
Cyclohexane	0.0957	0.0711	0.0607	0.329	0.244	0.209	

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC03-221025-D
Sample Info. 1022-099; 500mL load; Can #0812
Sampling Date 2022-10-25 10:31
Received Date 2022-10-28 00:00
Sample Type Sample
Batch Xavier_X102822A.v3
Data File X2202007.D
Dilution 1.000
Pressurization Factor 1.733
Acquisition Date 2022-10-28 19:43
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-099.VOC03-221025-D.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Carbon tetrachloride	0.0708	0.0698	0.0607	0.445	0.439	0.381	
Benzene	0.787	0.0697	0.0607	2.51	0.223	0.194	
2,2,4-trimethylpentane	ND	0.0717	0.0607	ND	0.335	0.283	
1,2-Dichloroethane	ND	0.0713	0.0607	ND	0.289	0.245	
Heptane	0.0696	0.0702	0.0607	0.285	0.288	0.248	J
Trichloroethene	ND	0.0701	0.0607	ND	0.376	0.326	
1,2-Dichloropropane	ND	0.0698	0.0607	ND	0.322	0.280	
Methyl methacrylate	ND	0.0726	0.0607	ND	0.297	0.248	
1,4-Dioxane	ND	0.0695	0.0607	ND	0.250	0.218	
Bromodichloromethane	ND	0.0700	0.0607	ND	0.469	0.406	
cis-1,3-Dichloropropene	ND	0.0688	0.0607	ND	0.312	0.275	
Methyl isobutyl ketone	ND	0.0720	0.0607	ND	0.295	0.248	
Toluene	1.07	0.0706	0.0607	4.05	0.266	0.228	
trans-1,3-Dichloropropene	ND	0.0715	0.0607	ND	0.325	0.275	
1,1,2-Trichloroethane	ND	0.0705	0.0607	ND	0.384	0.331	
Tetrachloroethene	ND	0.0709	0.0607	ND	0.481	0.411	
2-Hexanone (Methyl butyl ketone)	ND	0.0709	0.0607	ND	0.290	0.248	
Dibromochloromethane	ND	0.0699	0.0607	ND	0.595	0.516	
1,2-Dibromoethane	ND	0.0709	0.0607	ND	0.545	0.466	
Chlorobenzene	ND	0.0714	0.0607	ND	0.329	0.279	
Ethylbenzene	ND	0.0688	0.0607	ND	0.299	0.263	
1,1,1,2-Tetrachloroethane	ND	0.0699	0.0607	ND	0.479	0.416	
m-/p-Xylenes	0.0981	0.0703	0.0607	0.426	0.305	0.263	
o-Xylene	ND	0.0695	0.0607	ND	0.301	0.263	
Styrene	0.0937	0.0679	0.0607	0.399	0.289	0.258	
Bromoform	ND	0.0695	0.0607	ND	0.718	0.627	
1,1,2,2-Tetrachloroethane	ND	0.0701	0.0607	ND	0.481	0.416	
4-Ethyltoluene	ND	0.0705	0.0607	ND	0.346	0.298	
2-Chlorotoluene	ND	0.0700	0.0607	ND	0.362	0.314	
1,3,5-Trimethylbenzene	ND	0.0703	0.0607	ND	0.345	0.298	
1,2,4-Trimethylbenzene	0.0682	0.0694	0.0607	0.335	0.341	0.298	J, m
1,3-Dichlorobenzene	ND	0.0704	0.0607	ND	0.423	0.364	
1,4-Dichlorobenzene	ND	0.0697	0.0607	ND	0.419	0.364	

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC03-221025-D
Sample Info. 1022-099; 500mL load; Can #0812
Sampling Date 2022-10-25 10:31
Received Date 2022-10-28 00:00
Sample Type Sample
Batch Xavier_X102822A.v3
Data File X2202007.D
Dilution 1.000
Pressurization Factor 1.733
Acquisition Date 2022-10-28 19:43
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-099.VOC03-221025-D.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Benzyl chloride	ND	0.0697	0.0607	ND	0.361	0.314	
1,2-Dichlorobenzene	ND	0.0702	0.0607	ND	0.422	0.364	
1,2,4-Trichlorobenzene	ND	0.0691	0.0607	ND	0.512	0.450	
Hexachlorobutadiene	ND	0.0685	0.0607	ND	0.730	0.647	
Naphthalene	0.244	0.0698	0.0607	1.28	0.366	0.318	
1-Bromopropane	ND	0.0688	0.0607	ND	0.346	0.305	
1-Octene	ND	0.0684	0.0607	ND	0.314	0.278	
n-Octane	ND	0.0714	0.0607	ND	0.333	0.283	
Isopropylbenzene	ND	0.0704	0.0607	ND	0.346	0.298	
n-Propylbenzene	ND	0.0711	0.0607	ND	0.349	0.298	

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	764,899	11.05	5.21	pass
1,4-Difluorobenzene (IS)	2,844,269	12.47	5.16	pass
Chlorobenzene-d5 (IS)	2,487,678	16.61	4.92	pass

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC04-221025-S
Sample Info. 1022-099; 500mL load; Can #000065
Sampling Date 2022-10-25 10:23
Received Date 2022-10-28 00:00
Sample Type Sample
Batch Xavier_X102822A.v3
Data File X2202009.D
Dilution 1.000
Pressurization Factor 1.751
Acquisition Date 2022-10-28 21:32
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-099.VOC04-221025-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Propylene	0.990	0.0677	0.0613	1.70	0.116	0.105	
Freon 12 (CCl2F2)	0.463	0.0686	0.0613	2.29	0.339	0.303	
Freon 114 (C2Cl2F4)	ND	0.702	0.0613	ND	4.90	0.428	
Chloromethane	0.544	0.0693	0.0613	1.12	0.143	0.127	
Chloroethene (Vinyl chloride)	ND	0.0700	0.0613	ND	0.179	0.157	
1,3-Butadiene	0.0795	0.0682	0.0613	0.176	0.151	0.136	
Bromomethane	ND	0.0687	0.0613	ND	0.267	0.238	
Chloroethane	ND	0.0712	0.0613	ND	0.188	0.162	
Bromoethene (Vinyl bromide)	ND	0.0685	0.0613	ND	0.300	0.268	
Freon 11 (CCl3F)	0.251	0.0739	0.0613	1.41	0.415	0.344	
Ethanol	3.32	0.0694	0.0701	6.26	0.131	0.132	
Acrolein	0.220	0.0690	0.0613	0.504	0.158	0.140	m
Freon 113 (C2Cl3F3)	ND	0.0711	0.0613	ND	0.545	0.469	
1,1-Dichloroethene	ND	0.0705	0.0613	ND	0.279	0.243	
Acetone	3.39	0.0702	0.0613	8.05	0.167	0.146	
Carbon disulfide	0.0691	0.0698	0.0613	0.215	0.217	0.191	J
Isopropyl alcohol	0.400	0.0698	0.0613	0.982	0.172	0.151	m
Allyl chloride (3-chloropropene)	ND	0.0757	0.0613	ND	0.237	0.192	
Acetonitrile	0.355	0.0698	0.0613	0.596	0.117	0.103	
Methylene chloride	0.110	0.0717	0.0613	0.382	0.249	0.213	
trans-1,2-Dichloroethene	ND	0.0715	0.0613	ND	0.283	0.243	
Methyl tert-butyl ether	ND	0.0720	0.0613	ND	0.259	0.221	
Acrylonitrile	ND	0.0713	0.0613	ND	0.155	0.133	
Hexane	0.126	0.0712	0.0613	0.445	0.251	0.216	
1,1-Dichloroethane	ND	0.0696	0.0613	ND	0.281	0.248	
Vinyl acetate	ND	0.0717	0.0613	ND	0.252	0.216	
cis-1,2-Dichloroethene	ND	0.0708	0.0613	ND	0.280	0.243	
Methyl ethyl ketone (2-Butanone)	0.306	0.0724	0.0613	0.903	0.214	0.181	m
Ethyl acetate	0.165	0.0699	0.0613	0.595	0.252	0.221	m
Chloroform	ND	0.0703	0.0613	ND	0.343	0.299	
Tetrahydrofuran	ND	0.0709	0.0613	ND	0.209	0.181	
1,1,1-Trichloroethane	ND	0.0708	0.0613	ND	0.386	0.334	
Cyclohexane	0.129	0.0718	0.0613	0.444	0.247	0.211	

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC04-221025-S
 Sample Info. 1022-099; 500mL load; Can #000065
 Sampling Date 2022-10-25 10:23
 Received Date 2022-10-28 00:00
 Sample Type Sample
 Batch Xavier_X102822A.v3
 Data File X2202009.D
 Dilution 1.000
 Pressurization Factor 1.751
 Acquisition Date 2022-10-28 21:32
 Instrument Method TO15_SCNV6.M
 Matrix Air
 Analyst TDD
 Instrument Xavier
 Enthalpy ID 1022-099.VOC04-221025-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Carbon tetrachloride	0.0741	0.0705	0.0613	0.466	0.444	0.385	m
Benzene	4.99	0.0705	0.0613	15.9	0.225	0.196	
2,2,4-trimethylpentane	ND	0.0724	0.0613	ND	0.338	0.286	
1,2-Dichloroethane	ND	0.0721	0.0613	ND	0.292	0.248	
Heptane	0.0624	0.0710	0.0613	0.256	0.291	0.251	J
Trichloroethene	ND	0.0708	0.0613	ND	0.380	0.329	
1,2-Dichloropropane	ND	0.0705	0.0613	ND	0.326	0.283	
Methyl methacrylate	ND	0.0733	0.0613	ND	0.300	0.251	
1,4-Dioxane	ND	0.0703	0.0613	ND	0.253	0.221	
Bromodichloromethane	ND	0.0708	0.0613	ND	0.474	0.410	
cis-1,3-Dichloropropene	ND	0.0696	0.0613	ND	0.316	0.278	
Methyl isobutyl ketone	ND	0.0728	0.0613	ND	0.298	0.251	
Toluene	1.63	0.0713	0.0613	6.12	0.269	0.231	
trans-1,3-Dichloropropene	ND	0.0723	0.0613	ND	0.328	0.278	
1,1,2-Trichloroethane	ND	0.0712	0.0613	ND	0.388	0.334	
Tetrachloroethene	0.0676	0.0717	0.0613	0.458	0.486	0.415	J
2-Hexanone (Methyl butyl ketone)	ND	0.0717	0.0613	ND	0.293	0.251	
Dibromochloromethane	ND	0.0706	0.0613	ND	0.601	0.522	
1,2-Dibromoethane	ND	0.0717	0.0613	ND	0.550	0.471	
Chlorobenzene	ND	0.0722	0.0613	ND	0.332	0.282	
Ethylbenzene	ND	0.0696	0.0613	ND	0.302	0.266	
1,1,1,2-Tetrachloroethane	ND	0.0706	0.0613	ND	0.484	0.421	
m-/p-Xylenes	0.183	0.0710	0.0613	0.792	0.308	0.266	
o-Xylene	0.0663	0.0702	0.0613	0.288	0.305	0.266	J
Styrene	0.138	0.0687	0.0613	0.587	0.292	0.261	
Bromoform	ND	0.0703	0.0613	ND	0.726	0.633	
1,1,2,2-Tetrachloroethane	ND	0.0708	0.0613	ND	0.486	0.421	
4-Ethyltoluene	ND	0.0712	0.0613	ND	0.350	0.301	
2-Chlorotoluene	ND	0.0707	0.0613	ND	0.366	0.317	
1,3,5-Trimethylbenzene	ND	0.0710	0.0613	ND	0.349	0.301	
1,2,4-Trimethylbenzene	0.0614	0.0701	0.0613	0.302	0.345	0.301	J, m
1,3-Dichlorobenzene	ND	0.0712	0.0613	ND	0.428	0.368	
1,4-Dichlorobenzene	ND	0.0704	0.0613	ND	0.423	0.368	

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC04-221025-S
Sample Info. 1022-099; 500mL load; Can #000065
Sampling Date 2022-10-25 10:23
Received Date 2022-10-28 00:00
Sample Type Sample
Batch Xavier_X102822A.v3
Data File X2202009.D
Dilution 1.000
Pressurization Factor 1.751
Acquisition Date 2022-10-28 21:32
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-099.VOC04-221025-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Benzyl chloride	ND	0.0705	0.0613	ND	0.365	0.317	
1,2-Dichlorobenzene	ND	0.0710	0.0613	ND	0.426	0.368	
1,2,4-Trichlorobenzene	ND	0.0698	0.0613	ND	0.517	0.455	
Hexachlorobutadiene	ND	0.0692	0.0613	ND	0.738	0.653	
Naphthalene	0.628	0.0705	0.0613	3.29	0.370	0.321	
1-Bromopropane	ND	0.0695	0.0613	ND	0.349	0.308	
1-Octene	ND	0.0691	0.0613	ND	0.317	0.281	
n-Octane	ND	0.0722	0.0613	ND	0.337	0.286	
Isopropylbenzene	ND	0.0712	0.0613	ND	0.350	0.301	
n-Propylbenzene	ND	0.0719	0.0613	ND	0.353	0.301	

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	738,307	11.05	5.21	pass
1,4-Difluorobenzene (IS)	2,737,980	12.47	5.16	pass
Chlorobenzene-d5 (IS)	2,327,551	16.61	4.92	pass

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC05-221025-S
 Sample Info. 1022-099; 500mL load; Can #0821
 Sampling Date 2022-10-25 10:56
 Received Date 2022-10-28 00:00
 Sample Type Sample
 Batch Xavier_X102822A.v3
 Data File X2202010.D
 Dilution 1.000
 Pressurization Factor 1.769
 Acquisition Date 2022-10-28 22:26
 Instrument Method TO15_SCNV6.M
 Matrix Air
 Analyst TDD
 Instrument Xavier
 Enthalpy ID 1022-099.VOC05-221025-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Propylene	2.13	0.0684	0.0619	3.67	0.118	0.106	m
Freon 12 (CCl2F2)	0.468	0.0693	0.0619	2.31	0.342	0.306	
Freon 114 (C2Cl2F4)	ND	0.709	0.0619	ND	4.95	0.433	
Chloromethane	0.527	0.0700	0.0619	1.09	0.144	0.128	
Chloroethene (Vinyl chloride)	ND	0.0707	0.0619	ND	0.181	0.158	
1,3-Butadiene	0.500	0.0689	0.0619	1.11	0.152	0.137	m
Bromomethane	ND	0.0694	0.0619	ND	0.269	0.240	
Chloroethane	ND	0.0719	0.0619	ND	0.190	0.163	
Bromoethene (Vinyl bromide)	ND	0.0692	0.0619	ND	0.303	0.271	
Freon 11 (CCl3F)	0.230	0.0747	0.0619	1.29	0.419	0.348	m
Ethanol	3.59	0.0701	0.0708	6.77	0.132	0.133	
Acrolein	0.195	0.0697	0.0619	0.446	0.160	0.142	
Freon 113 (C2Cl3F3)	0.0626	0.0718	0.0619	0.479	0.550	0.474	J
1,1-Dichloroethene	ND	0.0712	0.0619	ND	0.282	0.245	
Acetone	3.19	0.0709	0.0619	7.57	0.168	0.147	
Carbon disulfide	1.05	0.0705	0.0619	3.28	0.220	0.193	
Isopropyl alcohol	0.629	0.0705	0.0619	1.55	0.173	0.152	
Allyl chloride (3-chloropropene)	ND	0.0764	0.0619	ND	0.239	0.194	
Acetonitrile	4.00	0.0705	0.0619	6.71	0.118	0.104	
Methylene chloride	0.136	0.0725	0.0619	0.473	0.252	0.215	
trans-1,2-Dichloroethene	ND	0.0722	0.0619	ND	0.286	0.245	
Methyl tert-butyl ether	ND	0.0727	0.0619	ND	0.262	0.223	
Acrylonitrile	ND	0.0720	0.0619	ND	0.156	0.134	
Hexane	0.123	0.0719	0.0619	0.435	0.253	0.218	
1,1-Dichloroethane	ND	0.0703	0.0619	ND	0.284	0.250	
Vinyl acetate	ND	0.0724	0.0619	ND	0.255	0.218	
cis-1,2-Dichloroethene	ND	0.0715	0.0619	ND	0.283	0.245	
Methyl ethyl ketone (2-Butanone)	0.332	0.0732	0.0619	0.980	0.216	0.182	
Ethyl acetate	0.135	0.0706	0.0619	0.485	0.254	0.223	
Chloroform	ND	0.0710	0.0619	ND	0.346	0.302	
Tetrahydrofuran	ND	0.0716	0.0619	ND	0.211	0.182	
1,1,1-Trichloroethane	ND	0.0715	0.0619	ND	0.390	0.338	
Cyclohexane	0.105	0.0725	0.0619	0.360	0.250	0.213	

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC05-221025-S
Sample Info. 1022-099; 500mL load; Can #0821
Sampling Date 2022-10-25 10:56
Received Date 2022-10-28 00:00
Sample Type Sample
Batch Xavier_X102822A.v3
Data File X2202010.D
Dilution 1.000
Pressurization Factor 1.769
Acquisition Date 2022-10-28 22:26
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-099.VOC05-221025-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Carbon tetrachloride	0.0762	0.0713	0.0619	0.479	0.448	0.389	
2,2,4-trimethylpentane	ND	0.0732	0.0619	ND	0.342	0.289	
1,2-Dichloroethane	3.19	0.0728	0.0619	12.9	0.295	0.250	
Heptane	0.360	0.0717	0.0619	1.48	0.294	0.254	
Trichloroethene	ND	0.0715	0.0619	ND	0.384	0.333	
1,2-Dichloropropane	ND	0.0713	0.0619	ND	0.329	0.286	
Methyl methacrylate	ND	0.0741	0.0619	ND	0.303	0.253	
1,4-Dioxane	ND	0.0710	0.0619	ND	0.256	0.223	
Bromodichloromethane	ND	0.0715	0.0619	ND	0.479	0.415	
cis-1,3-Dichloropropene	ND	0.0703	0.0619	ND	0.319	0.281	
Methyl isobutyl ketone	ND	0.0735	0.0619	ND	0.301	0.253	
Toluene	15.4	0.0720	0.0619	58.2	0.271	0.233	
trans-1,3-Dichloropropene	ND	0.0730	0.0619	ND	0.331	0.281	
1,1,2-Trichloroethane	ND	0.0720	0.0619	ND	0.392	0.338	
Tetrachloroethene	ND	0.0724	0.0619	ND	0.491	0.420	
2-Hexanone (Methyl butyl ketone)	ND	0.0724	0.0619	ND	0.296	0.253	
Dibromochloromethane	ND	0.0713	0.0619	ND	0.607	0.527	
1,2-Dibromoethane	ND	0.0724	0.0619	ND	0.556	0.475	
Chlorobenzene	ND	0.0729	0.0619	ND	0.335	0.285	
Ethylbenzene	0.0945	0.0703	0.0619	0.410	0.305	0.269	
1,1,1,2-Tetrachloroethane	ND	0.0713	0.0619	ND	0.489	0.425	
m-/p-Xylenes	2.07	0.0718	0.0619	9.00	0.311	0.269	
o-Xylene	0.450	0.0709	0.0619	1.95	0.308	0.269	
Styrene	1.28	0.0693	0.0619	5.46	0.295	0.264	
Bromoform	ND	0.0710	0.0619	ND	0.733	0.640	
1,1,2,2-Tetrachloroethane	ND	0.0715	0.0619	ND	0.491	0.425	
4-Ethyltoluene	ND	0.0720	0.0619	ND	0.354	0.304	
2-Chlorotoluene	ND	0.0714	0.0619	ND	0.369	0.320	
1,3,5-Trimethylbenzene	0.150	0.0718	0.0619	0.736	0.352	0.304	
1,2,4-Trimethylbenzene	0.215	0.0708	0.0619	1.06	0.348	0.304	
1,3-Dichlorobenzene	ND	0.0719	0.0619	ND	0.432	0.372	
1,4-Dichlorobenzene	ND	0.0711	0.0619	ND	0.427	0.372	
Benzyl chloride	ND	0.0712	0.0619	ND	0.368	0.320	

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC05-221025-S
Sample Info. 1022-099; 500mL load; Can #0821
Sampling Date 2022-10-25 10:56
Received Date 2022-10-28 00:00
Sample Type Sample
Batch Xavier_X102822A.v3
Data File X2202010.D
Dilution 1.000
Pressurization Factor 1.769
Acquisition Date 2022-10-28 22:26
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-099.VOC05-221025-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
1,2-Dichlorobenzene	ND	0.0717	0.0619	ND	0.431	0.372	
1,2,4-Trichlorobenzene	ND	0.0705	0.0619	ND	0.523	0.459	
Hexachlorobutadiene	ND	0.0699	0.0619	ND	0.745	0.660	
Naphthalene	19.6	0.0713	0.0619	103	0.373	0.324	
1-Bromopropane	ND	0.0702	0.0619	ND	0.353	0.311	
1-Octene	ND	0.0698	0.0619	ND	0.320	0.284	
n-Octane	ND	0.0729	0.0619	ND	0.340	0.289	
Isopropylbenzene	ND	0.0719	0.0619	ND	0.353	0.304	
n-Propylbenzene	ND	0.0726	0.0619	ND	0.357	0.304	

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	746,805	11.05	5.21	pass
1,4-Difluorobenzene (IS)	2,878,877	12.47	5.16	pass
Chlorobenzene-d5 (IS)	2,452,791	16.61	4.92	pass

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC05-221025-S
Sample Info. 1022-099; *10=50mL load; Can #0821
Sampling Date 2022-10-25 10:56
Received Date 2022-10-28 00:00
Sample Type Sample
Batch Xavier_X110822A.v2
Data File X2202105.D
Dilution 10.000
Pressurization Factor 1.769
Acquisition Date 2022-11-08 16:55
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-099.VOC05-221025-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Benzene	174	0.712	0.619	556	2.27	1.98	

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
1,4-Difluorobenzene (IS)	2,271,085	12.47	5.16	pass

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical -- Canister Pressurization

Job No. 1022-099
 Company All4, Inc.
 Site U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Can Number	000065	0812	0821	1715	1760	1881
Job	1022-099	1022-099	1022-099	1022-099	1022-099	1022-099
Sample ID	VOC04-221025-S	VOC03-221025-D	VOC05-221025-S	VOC03-221025-S	VOC02-221025-S	VOC01-221025-S
CleanDate	08/09/2022	08/04/2022	08/09/2022	08/03/2022	09/30/2022	10/04/2022
LeakCheckDate	08/11/2022	08/09/2022	08/11/2022	08/08/2022	10/04/2022	10/06/2022
LeakCheckAnalyst	aamears	aamears	aamears	aamears	aamears	aamears
BlankCheckRef	X2201562	X2201517	X2201563	X2201504	Y2203773	Y2203788
Weather Station ID	81	81	81	81	81	81
Weather Station Exp.	12/14/2022	12/14/2022	12/14/2022	12/14/2022	12/14/2022	12/14/2022
Transducer ID	3	3	3	3	3	3
Transducer Exp.	02/22/2023	02/22/2023	02/22/2023	02/22/2023	02/22/2023	02/22/2023
Can Size (L)	6	6	6	6	6	6
Evac Temp (F)	69.4	69.4	69.4	69.4	69.4	69.4
Evac Pbar (mmHg)	757.9	757.9	757.9	757.9	757.9	757.9
Evac Gauge (mmHg)	-757.9	-757.9	-757.9	-757.9	-757.9	-757.9
Evac Analyst	aamears	aamears	aamears	aamears	aamears	aamears
Evac Time	10/26/22 13:19	10/26/22 13:19	10/26/22 13:18	10/26/22 13:20	10/26/22 13:17	10/26/22 13:20
Evac Vol (L)	0.000	0.000	0.000	0.000	0.000	0.000
Recd. Temp (F)	70.4	70.4	70.4	70.4	70.4	70.4
Recd. Pbar (mmHg)	771.1	771.1	771.1	771.1	771.1	771.1
Recd. Gauge (mmHg)	-135.0	-51.0	-225.0	-217.0	-187.0	-154.0
Recd Vol (L)	4.999	5.660	4.292	4.355	4.591	4.850
P1 Temp (F)	70.4	70.4	70.4	70.4	70.4	70.4
P1 Pbar (mmHg)	771.1	771.1	771.1	771.1	771.1	771.1
P1 Gauge (mmHg)	343.0	477.0	195.0	198.0	262.0	308.0
P1 Analyst	ddaniels	ddaniels	ddaniels	ddaniels	ddaniels	ddaniels
P1 Time	10/28/22 16:39	10/28/22 16:36	10/28/22 16:40	10/28/22 16:35	10/28/22 16:34	10/28/22 16:34
P1 Vol (L)	8.756	9.809	7.593	7.616	8.119	8.481
P1 DF Override	false	false	false	false	false	false
P1 Dilution Factor	1.751	1.733	1.769	1.749	1.769	1.749

Lab QC

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs
 All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 1022-099.VOC03-221025-D.LD
 Sample Info. 1022-099; 500mL load; Can #0812
 Sampling Date 2022-10-25 10:31
 Received Date 2022-10-28 00:00
 Sample Type LabDup
 Batch Xavier_X102822A.v3
 Data File X2202008.D
 Dilution 1.000
 Pressurization Factor 1.733
 Acquisition Date 2022-10-28 20:37
 Instrument Method TO15_SCNV6.M
 Matrix Air
 Enthalpy ID 1022-099.VOC03-221025-D.LD

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Dup Diff (%)	Flags
Propylene	0.742	0.0670	0.0607	1.28	0.115	0.104	7.6	pass
Freon 12 (CCl2F2)	0.461	0.0679	0.0607	2.28	0.335	0.300	1.1	pass
Freon 114 (C2Cl2F4)	ND	0.695	0.0607	ND	4.85	0.424		
Chloromethane	0.546	0.0686	0.0607	1.13	0.141	0.125	1.9	pass
Chloroethene (Vinyl chloride)	ND	0.0693	0.0607	ND	0.177	0.155		
1,3-Butadiene	ND	0.0675	0.0607	ND	0.149	0.134		
Bromomethane	ND	0.0680	0.0607	ND	0.264	0.235		
Chloroethane	ND	0.0704	0.0607	ND	0.186	0.160		
Bromoethene (Vinyl bromide)	ND	0.0678	0.0607	ND	0.296	0.265		
Freon 11 (CCl3F)	0.242	0.0731	0.0607	1.36	0.411	0.341	6.8	pass
Ethanol	3.31	0.0687	0.0693	6.23	0.129	0.131	2.0	pass, m
Acrolein	0.179	0.0683	0.0607	0.411	0.156	0.139	18.9	pass, m
Freon 113 (C2Cl3F3)	0.0659	0.0704	0.0607	0.505	0.539	0.465	9.3	pass, J
1,1-Dichloroethene	ND	0.0697	0.0607	ND	0.276	0.240		
Acetone	2.67	0.0695	0.0607	6.33	0.165	0.144	1.8	pass
Carbon disulfide	ND	0.0691	0.0607	ND	0.215	0.189		
Isopropyl alcohol	0.377	0.0691	0.0607	0.926	0.170	0.149	9.6	pass, m
Allyl chloride (3-chloropropene)	ND	0.0749	0.0607	ND	0.234	0.190		
Acetonitrile	0.184	0.0691	0.0607	0.309	0.116	0.102	1.3	pass
Methylene chloride	0.116	0.0710	0.0607	0.402	0.246	0.211	3.8	pass
trans-1,2-Dichloroethene	ND	0.0707	0.0607	ND	0.280	0.240		
Methyl tert-butyl ether	ND	0.0713	0.0607	ND	0.257	0.219		
Acrylonitrile	ND	0.0706	0.0607	ND	0.153	0.132		
Hexane	0.0814	0.0704	0.0607	0.287	0.248	0.214	20.8	pass, m
1,1-Dichloroethane	ND	0.0688	0.0607	ND	0.278	0.245		
Vinyl acetate	ND	0.0709	0.0607	ND	0.250	0.213		
cis-1,2-Dichloroethene	ND	0.0700	0.0607	ND	0.277	0.240		
Methyl ethyl ketone (2-Butanone)	0.257	0.0717	0.0607	0.759	0.211	0.179	16.8	pass, m
Ethyl acetate	0.0982	0.0692	0.0607	0.354	0.249	0.218	20.9	pass, m
Chloroform	ND	0.0695	0.0607	ND	0.339	0.296		
Tetrahydrofuran	ND	0.0702	0.0607	ND	0.207	0.179		
1,1,1-Trichloroethane	ND	0.0700	0.0607	ND	0.382	0.331		
Cyclohexane	0.108	0.0711	0.0607	0.373	0.244	0.209	12.5	pass
Carbon tetrachloride	0.0697	0.0698	0.0607	0.438	0.439	0.381	1.5	pass, J
Benzene	0.740	0.0697	0.0607	2.36	0.223	0.194	6.2	pass
2,2,4-trimethylpentane	ND	0.0717	0.0607	ND	0.335	0.283		

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs
 All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 1022-099.VOC03-221025-D.LD
 Sample Info. 1022-099; 500mL load; Can #0812
 Sampling Date 2022-10-25 10:31
 Received Date 2022-10-28 00:00
 Sample Type LabDup
 Batch Xavier_X102822A.v3
 Data File X2202008.D
 Dilution 1.000
 Pressurization Factor 1.733
 Acquisition Date 2022-10-28 20:37
 Instrument Method TO15_SCNV6.M
 Matrix Air
 Enthalpy ID 1022-099.VOC03-221025-D.LD

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Dup Diff (%)	Flags
1,2-Dichloroethane	ND	0.0713	0.0607	ND	0.289	0.245		
Heptane	0.0677	0.0702	0.0607	0.277	0.288	0.248	2.8	pass, J
Trichloroethene	ND	0.0701	0.0607	ND	0.376	0.326		
1,2-Dichloropropane	ND	0.0698	0.0607	ND	0.322	0.280		
Methyl methacrylate	ND	0.0726	0.0607	ND	0.297	0.248		
1,4-Dioxane	ND	0.0695	0.0607	ND	0.250	0.218		
Bromodichloromethane	ND	0.0700	0.0607	ND	0.469	0.406		
cis-1,3-Dichloropropene	ND	0.0688	0.0607	ND	0.312	0.275		
Methyl isobutyl ketone	ND	0.0720	0.0607	ND	0.295	0.248		
Toluene	1.07	0.0706	0.0607	4.04	0.266	0.228	0.1	pass
trans-1,3-Dichloropropene	ND	0.0715	0.0607	ND	0.325	0.275		
1,1,2-Trichloroethane	ND	0.0705	0.0607	ND	0.384	0.331		
Tetrachloroethene	ND	0.0709	0.0607	ND	0.481	0.411		
2-Hexanone (Methyl butyl ketone)	ND	0.0709	0.0607	ND	0.290	0.248		
Dibromochloromethane	ND	0.0699	0.0607	ND	0.595	0.516		
1,2-Dibromoethane	ND	0.0709	0.0607	ND	0.545	0.466		
Chlorobenzene	ND	0.0714	0.0607	ND	0.329	0.279		
Ethylbenzene	ND	0.0688	0.0607	ND	0.299	0.263		
1,1,1,2-Tetrachloroethane	ND	0.0699	0.0607	ND	0.479	0.416		
m-/p-Xylenes	0.105	0.0703	0.0607	0.456	0.305	0.263	6.9	pass
o-Xylene	ND	0.0695	0.0607	ND	0.301	0.263		
Styrene	0.0845	0.0679	0.0607	0.360	0.289	0.258	10.4	pass
Bromoform	ND	0.0695	0.0607	ND	0.718	0.627		
1,1,2,2-Tetrachloroethane	ND	0.0701	0.0607	ND	0.481	0.416		
4-Ethyltoluene	ND	0.0705	0.0607	ND	0.346	0.298		
2-Chlorotoluene	ND	0.0700	0.0607	ND	0.362	0.314		
1,3,5-Trimethylbenzene	ND	0.0703	0.0607	ND	0.345	0.298		
1,2,4-Trimethylbenzene	ND	0.0694	0.0607	ND	0.341	0.298		
1,3-Dichlorobenzene	ND	0.0704	0.0607	ND	0.423	0.364		
1,4-Dichlorobenzene	ND	0.0697	0.0607	ND	0.419	0.364		
Benzyl chloride	ND	0.0697	0.0607	ND	0.361	0.314		
1,2-Dichlorobenzene	ND	0.0702	0.0607	ND	0.422	0.364		
1,2,4-Trichlorobenzene	ND	0.0691	0.0607	ND	0.512	0.450		
Hexachlorobutadiene	ND	0.0685	0.0607	ND	0.730	0.647		
Naphthalene	0.255	0.0698	0.0607	1.34	0.366	0.318	4.4	pass
1-Bromopropane	ND	0.0688	0.0607	ND	0.346	0.305		

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 1022-099.VOC03-221025-D.LD
Sample Info. 1022-099; 500mL load; Can #0812
Sampling Date 2022-10-25 10:31
Received Date 2022-10-28 00:00
Sample Type LabDup
Batch Xavier_X102822A.v3
Data File X2202008.D
Dilution 1.000
Pressurization Factor 1.733
Acquisition Date 2022-10-28 20:37
Instrument Method TO15_SCNV6.M
Matrix Air
Enthalpy ID 1022-099.VOC03-221025-D.LD

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Dup Diff (%)	Flags
1-Octene	ND	0.0684	0.0607	ND	0.314	0.278		
n-Octane	ND	0.0714	0.0607	ND	0.333	0.283		
Isopropylbenzene	ND	0.0704	0.0607	ND	0.346	0.298		
n-Propylbenzene	ND	0.0711	0.0607	ND	0.349	0.298		

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	764,983	11.05	5.21	pass
1,4-Difluorobenzene (IS)	2,847,732	12.47	5.16	pass
Chlorobenzene-d5 (IS)	2,444,182	16.61	4.92	pass

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs
All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 1022-099.VOC05-221025-S.LD
Sample Info. 1022-099; *10=50mL load; Can #0821
Sampling Date 2022-10-25 10:56
Received Date 2022-10-28 00:00
Sample Type LabDup
Batch Xavier_X110822A.v2
Data File X2202106.D
Dilution 10.000
Pressurization Factor 1.769
Acquisition Date 2022-11-08 17:42
Instrument Method TO15_SCNV6.M
Matrix Air
Enthalpy ID 1022-099.VOC05-221025-S.LD

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Dup Diff (%)	Flags
Benzene	170	0.712	0.619	544	2.27	1.98	2.1	pass

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
1,4-Difluorobenzene (IS)	2,244,944	12.47	5.16	pass

(ND) = Not Detected
(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration
IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 102822A_Humid Blank Can #1585
 Sample Info. 500mL load; Can #1585
 Sample Type Blank
 Batch Xavier_X102822A.v3
 Data File X2202003.D
 Dilution 1.000
 Pressurization Factor 1.000
 Acquisition Date 2022-10-28 15:11
 Instrument Method TO15_SCNV6.M
 Matrix Air
 Analyst TDD
 Instrument Xavier
 Enthalpy ID 102822A_Humid Blank Can #1585

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Propylene	ND	0.0386	0.0350	ND	0.0665	0.0602	pass
Freon 12 (CCl2F2)	ND	0.0392	0.0350	ND	0.194	0.173	pass
Freon 114 (C2Cl2F4)	ND	0.401	0.0350	ND	2.80	0.245	pass
Chloromethane	ND	0.0396	0.0350	ND	0.0816	0.0722	pass
Chloroethene (Vinyl chloride)	ND	0.0400	0.0350	ND	0.102	0.0894	pass
1,3-Butadiene	ND	0.0389	0.0350	ND	0.0860	0.0774	pass
Bromomethane	ND	0.0392	0.0350	ND	0.152	0.136	pass
Chloroethane	ND	0.0406	0.0350	ND	0.107	0.0923	pass
Bromoethene (Vinyl bromide)	ND	0.0391	0.0350	ND	0.171	0.153	pass
Freon 11 (CCl3F)	ND	0.0422	0.0350	ND	0.237	0.197	pass
Ethanol	0.0818	0.0396	0.0400	0.154	0.0746	0.0753	pass, m
Acrolein	ND	0.0394	0.0350	ND	0.0903	0.0802	pass
Freon 113 (C2Cl3F3)	ND	0.0406	0.0350	ND	0.311	0.268	pass
1,1-Dichloroethene	ND	0.0402	0.0350	ND	0.159	0.139	pass
Acetone	0.101	0.0401	0.0350	0.239	0.0951	0.0831	pass, m
Carbon disulfide	ND	0.0399	0.0350	ND	0.124	0.109	pass
Isopropyl alcohol	0.0433	0.0399	0.0350	0.106	0.0980	0.0860	pass, m
Allyl chloride (3-chloropropene)	ND	0.0432	0.0350	ND	0.135	0.109	pass
Acetonitrile	ND	0.0399	0.0350	ND	0.0669	0.0587	pass
Methylene chloride	ND	0.0410	0.0350	ND	0.142	0.122	pass
trans-1,2-Dichloroethene	ND	0.0408	0.0350	ND	0.162	0.139	pass
Methyl tert-butyl ether	ND	0.0411	0.0350	ND	0.148	0.126	pass
Acrylonitrile	ND	0.0407	0.0350	ND	0.0883	0.0759	pass
Hexane	ND	0.0406	0.0350	ND	0.143	0.123	pass
1,1-Dichloroethane	ND	0.0397	0.0350	ND	0.161	0.142	pass
Vinyl acetate	ND	0.0409	0.0350	ND	0.144	0.123	pass
cis-1,2-Dichloroethene	ND	0.0404	0.0350	ND	0.160	0.139	pass
Methyl ethyl ketone (2-Butanone)	ND	0.0414	0.0350	ND	0.122	0.103	pass
Ethyl acetate	ND	0.0399	0.0350	ND	0.144	0.126	pass
Chloroform	ND	0.0401	0.0350	ND	0.196	0.171	pass
Tetrahydrofuran	ND	0.0405	0.0350	ND	0.119	0.103	pass
1,1,1-Trichloroethane	ND	0.0404	0.0350	ND	0.220	0.191	pass
Cyclohexane	ND	0.0410	0.0350	ND	0.141	0.120	pass
Carbon tetrachloride	ND	0.0403	0.0350	ND	0.253	0.220	pass

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 102822A_Humid Blank Can #1585
 Sample Info. 500mL load; Can #1585
 Sample Type Blank
 Batch Xavier_X102822A.v3
 Data File X2202003.D
 Dilution 1.000
 Pressurization Factor 1.000
 Acquisition Date 2022-10-28 15:11
 Instrument Method TO15_SCNV6.M
 Matrix Air
 Analyst TDD
 Instrument Xavier
 Enthalpy ID 102822A_Humid Blank Can #1585

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Benzene	ND	0.0402	0.0350	ND	0.128	0.112	pass
2,2,4-trimethylpentane	ND	0.0414	0.0350	ND	0.193	0.163	pass
1,2-Dichloroethane	ND	0.0412	0.0350	ND	0.166	0.142	pass
Heptane	ND	0.0405	0.0350	ND	0.166	0.143	pass
Trichloroethene	ND	0.0404	0.0350	ND	0.217	0.188	pass
1,2-Dichloropropane	ND	0.0403	0.0350	ND	0.186	0.162	pass
Methyl methacrylate	ND	0.0419	0.0350	ND	0.171	0.143	pass
1,4-Dioxane	ND	0.0401	0.0350	ND	0.144	0.126	pass
Bromodichloromethane	ND	0.0404	0.0350	ND	0.271	0.234	pass
cis-1,3-Dichloropropene	ND	0.0397	0.0350	ND	0.180	0.159	pass
Methyl isobutyl ketone	ND	0.0416	0.0350	ND	0.170	0.143	pass
Toluene	ND	0.0407	0.0350	ND	0.153	0.132	pass
trans-1,3-Dichloropropene	ND	0.0413	0.0350	ND	0.187	0.159	pass
1,1,2-Trichloroethane	ND	0.0407	0.0350	ND	0.222	0.191	pass
Tetrachloroethene	ND	0.0409	0.0350	ND	0.277	0.237	pass
2-Hexanone (Methyl butyl ketone)	ND	0.0409	0.0350	ND	0.168	0.143	pass
Dibromochloromethane	ND	0.0403	0.0350	ND	0.343	0.298	pass
1,2-Dibromoethane	ND	0.0409	0.0350	ND	0.314	0.269	pass
Chlorobenzene	ND	0.0412	0.0350	ND	0.190	0.161	pass
Ethylbenzene	ND	0.0397	0.0350	ND	0.172	0.152	pass
1,1,1,2-Tetrachloroethane	ND	0.0403	0.0350	ND	0.277	0.240	pass
m-/p-Xylenes	ND	0.0406	0.0350	ND	0.176	0.152	pass
o-Xylene	ND	0.0401	0.0350	ND	0.174	0.152	pass
Styrene	ND	0.0392	0.0350	ND	0.167	0.149	pass
Bromoform	ND	0.0401	0.0350	ND	0.414	0.362	pass
1,1,2,2-Tetrachloroethane	ND	0.0404	0.0350	ND	0.277	0.240	pass
4-Ethyltoluene	ND	0.0407	0.0350	ND	0.200	0.172	pass
2-Chlorotoluene	ND	0.0404	0.0350	ND	0.209	0.181	pass
1,3,5-Trimethylbenzene	ND	0.0406	0.0350	ND	0.199	0.172	pass
1,2,4-Trimethylbenzene	ND	0.0400	0.0350	ND	0.197	0.172	pass
1,3-Dichlorobenzene	ND	0.0406	0.0350	ND	0.244	0.210	pass
1,4-Dichlorobenzene	ND	0.0402	0.0350	ND	0.242	0.210	pass
Benzyl chloride	ND	0.0402	0.0350	ND	0.208	0.181	pass
1,2-Dichlorobenzene	ND	0.0405	0.0350	ND	0.243	0.210	pass

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 102822A_Humid Blank Can #1585
Sample Info. 500mL load; Can #1585
Sample Type Blank
Batch Xavier_X102822A.v3
Data File X2202003.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2022-10-28 15:11
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 102822A_Humid Blank Can #1585

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
1,2,4-Trichlorobenzene	ND	0.0398	0.0350	ND	0.295	0.260	pass
Hexachlorobutadiene	ND	0.0395	0.0350	ND	0.421	0.373	pass
Naphthalene	ND	0.0403	0.0350	ND	0.211	0.183	pass
1-Bromopropane	ND	0.0397	0.0350	ND	0.199	0.176	pass
1-Octene	ND	0.0395	0.0350	ND	0.181	0.161	pass
n-Octane	ND	0.0412	0.0350	ND	0.192	0.163	pass
Isopropylbenzene	ND	0.0406	0.0350	ND	0.200	0.172	pass
n-Propylbenzene	ND	0.0410	0.0350	ND	0.202	0.172	pass

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	802,080	11.05	5.21	pass
1,4-Difluorobenzene (IS)	2,985,921	12.47	5.16	pass
Chlorobenzene-d5 (IS)	2,647,279	16.61	4.92	pass

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name Humid Blank Can #R5110
Sample Info. 500mL load; Can #R5110
Sample Type Blank
Batch Xavier_X110822A.v2
Data File X2202104.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2022-11-08 16:08
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID Humid Blank Can #R5110

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Benzene	ND	0.0402	0.0350	ND	0.128	0.112	pass

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
1,4-Difluorobenzene (IS)	2,471,849	12.47	5.16	pass

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 102822A_5ppbv TO15 LCS
Sample Info. 125mL load; Can #2052; GCMSPrepPg1199
Sample Type QC
Batch Xavier_X102822A.v3
Data File X2202000.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2022-10-28 12:34
Instrument Method TO15_SCNV6.M
Matrix Air
Enthalpy ID 102822A_5ppbv TO15 LCS

Target Compound	Response	Concentration (ppbv)	Expected Conc (ppbv)	Recovery (%)	Flags
Propylene	639,963	4.56	4.83	94.4	pass
Freon 12 (CCl2F2)	1,964,236	4.84	4.90	98.9	pass
Freon 114 (C2Cl2F4)	2,150,291	5.13	5.01	102.4	pass
Chloromethane	715,283	4.90	4.95	99.1	pass
Chloroethene (Vinyl chloride)	483,171	5.61	5.00	112.3	pass, m
1,3-Butadiene	800,814	5.52	4.87	113.4	pass
Bromomethane	442,818	4.75	4.91	96.9	pass, m
Chloroethane	357,861	5.17	5.08	101.8	pass
Bromoethene (Vinyl bromide)	800,535	4.81	4.89	98.4	pass
Freon 11 (CCl3F)	2,153,314	5.33	5.28	101.1	pass
Ethanol	340,117	4.18	4.96	84.3	pass
Acrolein	261,763	4.56	4.93	92.7	pass
Freon 113 (C2Cl3F3)	1,475,587	5.06	5.08	99.7	pass
1,1-Dichloroethene	1,382,907	5.31	5.03	105.5	pass
Acetone	1,449,316	4.84	5.01	96.5	pass
Carbon disulfide	2,207,732	5.39	4.99	108.1	pass
Isopropyl alcohol	1,596,062	5.20	4.99	104.3	pass
Allyl chloride (3-chloropropene)	296,322	5.05	5.04	100.3	pass
Acetonitrile	748,240	5.42	4.99	108.8	pass
Methylene chloride	1,089,651	4.89	5.12	95.6	pass
trans-1,2-Dichloroethene	1,108,064	5.21	5.10	102.2	pass
Methyl tert-butyl ether	1,866,768	5.20	5.14	101.2	pass
Acrylonitrile	588,336	5.21	5.09	102.3	pass
Hexane	1,114,599	5.18	5.08	101.9	pass
1,1-Dichloroethane	1,312,696	5.08	4.97	102.4	pass
Vinyl acetate	2,077,065	4.94	5.12	96.6	pass
cis-1,2-Dichloroethene	1,286,328	5.49	5.05	108.6	pass
Methyl ethyl ketone (2-Butanone)	330,073	5.12	5.17	99.0	pass
Ethyl acetate	312,431	5.00	4.99	100.3	pass
Chloroform	1,551,374	5.07	5.02	101.2	pass
Tetrahydrofuran	319,674	5.33	5.06	105.3	pass
1,1,1-Trichloroethane	1,565,070	4.95	5.05	98.1	pass
Cyclohexane	1,143,484	5.23	5.13	102.0	pass
Carbon tetrachloride	1,720,928	4.85	5.04	96.4	pass
Benzene	2,022,650	4.97	5.03	98.8	pass, m
2,2,4-trimethylpentane	3,774,939	5.27	5.17	102.0	pass

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 102822A_5ppbv TO15 LCS
Sample Info. 125mL load; Can #2052; GCMSPrepPg1199
Sample Type QC
Batch Xavier_X102822A.v3
Data File X2202000.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2022-10-28 12:34
Instrument Method TO15_SCNV6.M
Matrix Air
Enthalpy ID 102822A_5ppbv TO15 LCS

Target Compound	Response	Concentration (ppbv)	Expected Conc (ppbv)	Recovery (%)	Flags
1,2-Dichloroethane	1,060,162	4.86	5.15	94.4	pass
Heptane	719,906	5.04	5.07	99.5	pass
Trichloroethene	1,118,032	4.65	5.06	92.0	pass
1,2-Dichloropropane	895,107	5.28	5.04	104.9	pass
Methyl methacrylate	770,406	5.41	5.24	103.4	pass
1,4-Dioxane	470,589	5.01	5.02	99.9	pass
Bromodichloromethane	1,659,427	5.04	5.05	99.8	pass
cis-1,3-Dichloropropene	1,225,284	4.97	4.97	100.1	pass
Methyl isobutyl ketone	2,284,042	5.05	5.20	97.1	pass
Toluene	2,883,161	4.95	5.09	97.2	pass
trans-1,3-Dichloropropene	1,270,821	4.80	5.16	93.0	pass
1,1,2-Trichloroethane	963,374	4.70	5.09	92.5	pass
Tetrachloroethene	1,495,291	4.42	5.12	86.5	pass
2-Hexanone (Methyl butyl ketone)	2,260,018	5.03	5.12	98.3	pass
Dibromochloromethane	2,079,433	4.84	5.04	96.0	pass
1,2-Dibromoethane	1,751,036	4.85	5.12	94.9	pass
Chlorobenzene	2,433,150	4.76	5.15	92.5	pass
Ethylbenzene	3,786,765	4.98	4.97	100.4	pass, m
1,1,1,2-Tetrachloroethane	1,418,426	4.71	5.04	93.4	pass
m-/p-Xylenes	2,812,036	4.89	5.07	96.5	pass, m
o-Xylene	2,955,668	4.94	5.01	98.5	pass
Styrene	2,387,777	5.08	4.90	103.6	pass
Bromoform	2,140,965	4.76	5.02	95.0	pass
1,1,2,2-Tetrachloroethane	2,218,980	4.86	5.06	96.1	pass
4-Ethyltoluene	4,432,620	5.15	5.09	101.3	pass, m
2-Chlorotoluene	3,517,479	4.95	5.05	98.1	pass
1,3,5-Trimethylbenzene	3,484,767	4.88	5.07	96.2	pass
1,2,4-Trimethylbenzene	3,440,022	4.72	5.01	94.3	pass
1,3-Dichlorobenzene	2,734,657	4.62	5.08	91.0	pass
1,4-Dichlorobenzene	2,808,747	4.66	5.03	92.8	pass
Benzyl chloride	3,305,504	5.21	5.03	103.7	pass
1,2-Dichlorobenzene	2,670,274	4.69	5.07	92.6	pass
1,2,4-Trichlorobenzene	2,432,922	4.94	4.98	99.2	pass
Hexachlorobutadiene	1,941,451	4.53	4.94	91.7	pass
Naphthalene	6,195,605	5.50	5.04	109.2	pass
1-Bromopropane	1,557,260	4.93	4.96	99.4	pass

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 102822A_5ppbv TO15 LCS
Sample Info. 125mL load; Can #2052; GCMSPrepPg1199
Sample Type QC
Batch Xavier_X102822A.v3
Data File X2202000.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2022-10-28 12:34
Instrument Method TO15_SCNV6.M
Matrix Air
Enthalpy ID 102822A_5ppbv TO15 LCS

Target Compound	Response	Concentration (ppbv)	Expected Conc (ppbv)	Recovery (%)	Flags
1-Octene	592,062	4.96	4.94	100.6	pass
n-Octane	745,459	4.71	5.02	93.9	pass
Isopropylbenzene	4,296,632	4.94	5.08	97.3	pass
n-Propylbenzene	4,931,661	5.05	5.13	98.4	pass

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	880,869	11.05	5.21	pass
1,4-Difluorobenzene (IS)	3,252,480	12.47	5.16	pass
Chlorobenzene-d5 (IS)	2,919,858	16.61	4.92	pass

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 102822A_5ppbv TO15 LCS LD
Sample Info. 125mL load; Can #2052; GCMSPrepPg1199
Sample Type QcDup
Batch Xavier_X102822A.v3
Data File X2202001.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2022-10-28 13:22
Instrument Method TO15_SCNV6.M
Matrix Air
Enthalpy ID 102822A_5ppbv TO15 LCS LD

Target Compound	Response	Concentration (ppbv)	Expected Conc (ppbv)	Parent Conc (ppbv)	Recovery (%)	Diff (%)	Flags
Propylene	652,154	4.70	4.83	4.56	97.3%	3.0	pass
Freon 12 (CCl2F2)	1,997,877	4.98	4.90	4.84	101.8%	2.8	pass
Freon 114 (C2Cl2F4)	2,166,591	5.23	5.01	5.13	104.3%	1.9	pass
Chloromethane	716,515	4.96	4.95	4.90	100.4%	1.3	pass
Chloroethene (Vinyl chloride)	472,776	5.55	5.00	5.61	111.1%	1.0	pass, m
1,3-Butadiene	803,900	5.60	4.87	5.52	115.1%	1.5	pass
Bromomethane	454,443	4.93	4.91	4.75	100.6%	3.7	pass
Chloroethane	359,059	5.25	5.08	5.17	103.3%	1.5	pass
Bromoethene (Vinyl bromide)	797,105	4.84	4.89	4.81	99.1%	0.7	pass
Freon 11 (CCl3F)	2,168,679	5.43	5.28	5.33	103.0%	1.9	pass
Ethanol	344,414	4.28	4.96	4.18	86.3%	2.4	pass
Acrolein	266,504	4.70	4.93	4.56	95.4%	2.9	pass
Freon 113 (C2Cl3F3)	1,427,549	4.95	5.08	5.06	97.5%	2.2	pass
1,1-Dichloroethene	1,395,458	5.42	5.03	5.31	107.7%	2.0	pass
Acetone	1,500,301	5.06	5.01	4.84	101.1%	4.6	pass
Carbon disulfide	2,252,324	5.56	4.99	5.39	111.6%	3.1	pass
Isopropyl alcohol	1,597,632	5.26	4.99	5.20	105.6%	1.2	pass
Allyl chloride (3-chloropropene)	317,299	5.47	5.04	5.05	108.6%	8.0	pass
Acetonitrile	774,458	5.68	4.99	5.42	113.9%	4.6	pass
Methylene chloride	1,077,845	4.90	5.12	4.89	95.6%	0.1	pass
trans-1,2-Dichloroethene	1,116,971	5.32	5.10	5.21	104.2%	1.9	pass
Methyl tert-butyl ether	1,875,012	5.29	5.14	5.20	102.8%	1.6	pass
Acrylonitrile	555,730	4.98	5.09	5.21	97.7%	4.6	pass
Hexane	1,133,519	5.33	5.08	5.18	104.8%	2.8	pass
1,1-Dichloroethane	1,324,999	5.19	4.97	5.08	104.5%	2.1	pass
Vinyl acetate	2,108,760	5.07	5.12	4.94	99.2%	2.7	pass
cis-1,2-Dichloroethene	1,297,098	5.60	5.05	5.49	110.8%	2.0	pass
Methyl ethyl ketone (2-Butanone)	333,853	5.24	5.17	5.12	101.3%	2.3	pass
Ethyl acetate	313,588	5.08	4.99	5.00	101.8%	1.5	pass
Chloroform	1,574,926	5.21	5.02	5.07	103.9%	2.7	pass
Tetrahydrofuran	317,208	5.35	5.06	5.33	105.7%	0.4	pass
1,1,1-Trichloroethane	1,575,406	5.04	5.05	4.95	99.9%	1.8	pass
Cyclohexane	1,149,613	5.32	5.13	5.23	103.7%	1.7	pass
Carbon tetrachloride	1,738,469	4.96	5.04	4.85	98.5%	2.2	pass
Benzene	2,053,061	5.05	5.03	4.97	100.4%	1.6	pass
2,2,4-trimethylpentane	3,791,105	5.30	5.17	5.27	102.6%	0.5	pass

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 102822A_5ppbv TO15 LCS LD
Sample Info. 125mL load; Can #2052; GCMSPrepPg1199
Sample Type QcDup
Batch Xavier_X102822A.v3
Data File X2202001.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2022-10-28 13:22
Instrument Method TO15_SCNV6.M
Matrix Air
Enthalpy ID 102822A_5ppbv TO15 LCS LD

Target Compound	Response	Concentration (ppbv)	Expected Conc (ppbv)	Parent Conc (ppbv)	Recovery (%)	Diff (%)	Flags
1,2-Dichloroethane	1,057,298	4.85	5.15	4.86	94.3%	0.2	pass
Heptane	727,706	5.10	5.07	5.04	100.7%	1.2	pass
Trichloroethene	1,132,809	4.72	5.06	4.65	93.3%	1.4	pass
1,2-Dichloropropane	889,552	5.26	5.04	5.28	104.4%	0.5	pass
Methyl methacrylate	764,541	5.38	5.24	5.41	102.7%	0.7	pass
1,4-Dioxane	463,135	4.94	5.02	5.01	98.5%	1.5	pass
Bromodichloromethane	1,685,770	5.13	5.05	5.04	101.5%	1.7	pass
cis-1,3-Dichloropropene	1,229,853	5.00	4.97	4.97	100.6%	0.5	pass
Methyl isobutyl ketone	2,303,662	5.10	5.20	5.05	98.1%	1.0	pass
Toluene	2,910,731	5.05	5.09	4.95	99.3%	2.1	pass
trans-1,3-Dichloropropene	1,289,043	4.93	5.16	4.80	95.5%	2.6	pass
1,1,2-Trichloroethane	974,804	4.82	5.09	4.70	94.7%	2.4	pass
Tetrachloroethene	1,508,998	4.52	5.12	4.42	88.3%	2.1	pass
2-Hexanone (Methyl butyl ketone)	2,271,954	5.11	5.12	5.03	100.0%	1.7	pass
Dibromochloromethane	2,111,754	4.97	5.04	4.84	98.6%	2.7	pass
1,2-Dibromoethane	1,793,780	5.03	5.12	4.85	98.4%	3.6	pass
Chlorobenzene	2,495,100	4.94	5.15	4.76	96.0%	3.7	pass
Ethylbenzene	3,772,168	5.02	4.97	4.98	101.2%	0.8	pass
1,1,1,2-Tetrachloroethane	1,423,401	4.78	5.04	4.71	94.9%	1.5	pass
m-/p-Xylenes	2,817,176	4.96	5.07	4.89	97.9%	1.4	pass
o-Xylene	2,975,082	5.03	5.01	4.94	100.4%	1.9	pass
Styrene	2,401,263	5.17	4.90	5.08	105.4%	1.8	pass
Bromoform	2,084,083	4.69	5.02	4.76	93.6%	1.5	pass
1,1,2,2-Tetrachloroethane	2,252,425	4.99	5.06	4.86	98.8%	2.7	pass
4-Ethyltoluene	4,475,442	5.27	5.09	5.15	103.6%	2.2	pass
2-Chlorotoluene	3,570,260	5.08	5.05	4.95	100.7%	2.7	pass
1,3,5-Trimethylbenzene	3,554,353	5.03	5.07	4.88	99.3%	3.2	pass
1,2,4-Trimethylbenzene	3,519,802	4.89	5.01	4.72	97.7%	3.5	pass
1,3-Dichlorobenzene	2,782,868	4.76	5.08	4.62	93.8%	2.9	pass
1,4-Dichlorobenzene	2,840,449	4.77	5.03	4.66	95.0%	2.3	pass
Benzyl chloride	3,335,680	5.33	5.03	5.21	105.9%	2.1	pass
1,2-Dichlorobenzene	2,721,353	4.84	5.07	4.69	95.5%	3.1	pass
1,2,4-Trichlorobenzene	2,495,904	5.13	4.98	4.94	103.0%	3.8	pass
Hexachlorobutadiene	2,015,835	4.76	4.94	4.53	96.4%	5.0	pass
Naphthalene	6,375,338	5.72	5.04	5.50	113.7%	4.1	pass
1-Bromopropane	1,561,901	5.00	4.96	4.93	100.9%	1.4	pass

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 102822A_5ppbv TO15 LCS LD
Sample Info. 125mL load; Can #2052; GCMSPrepPg1199
Sample Type QcDup
Batch Xavier_X102822A.v3
Data File X2202001.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2022-10-28 13:22
Instrument Method TO15_SCNV6.M
Matrix Air
Enthalpy ID 102822A_5ppbv TO15 LCS LD

Target Compound	Response	Concentration (ppbv)	Expected Conc (ppbv)	Parent Conc (ppbv)	Recovery (%)	Diff (%)	Flags
1-Octene	585,452	4.97	4.94	4.96	100.7%	0.1	pass
n-Octane	760,157	4.86	5.02	4.71	96.9%	3.1	pass
Isopropylbenzene	4,183,665	4.87	5.08	4.94	95.8%	1.5	pass
n-Propylbenzene	4,996,944	5.18	5.13	5.05	100.9%	2.5	pass

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	870,852	11.05	5.21	pass
1,4-Difluorobenzene (IS)	3,249,043	12.47	5.16	pass
Chlorobenzene-d5 (IS)	2,885,125	16.61	4.92	pass

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 5ppbv TO15 LCS
Sample Info. 125mL load; Can #2052; GCMSPrepPg1199
Sample Type QC
Batch Xavier_X110822A.v2
Data File X2202100.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2022-11-08 12:18
Instrument Method TO15_SCNV6.M
Matrix Air
Enthalpy ID 5ppbv TO15 LCS

Target Compound	Response	Concentration (ppbv)	Expected Conc (ppbv)	Recovery (%)	Flags
Benzene	1,784,220	5.33	5.03	106.0	pass

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
1,4-Difluorobenzene (IS)	2,674,342	12.47	5.16	pass

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical

Job No.: 1022-099-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 5ppbv TO15 LCS LD
Sample Info. 125mL load; Can #2052; GCMSPrepPg1199
Sample Type QcDup
Batch Xavier_X110822A.v2
Data File X2202101.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2022-11-08 13:06
Instrument Method TO15_SCNV6.M
Matrix Air
Enthalpy ID 5ppbv TO15 LCS LD

Target Compound	Response	Concentration (ppbv)	Expected Conc (ppbv)	Parent Conc (ppbv)	Recovery (%)	Diff (%)	Flags
Benzene	1,759,942	5.43	5.03	5.33	108.0%	1.9	pass

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
1,4-Difluorobenzene (IS)	2,588,998	12.47	5.16	pass

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Narrative Summary

Enthalpy Analytical Narrative Summary

Company	All4, Inc.
Analyst	TDD
Parameters	EPA Method TO-15

Client #	00701-0002.00; U.S. Steel Corp – Clairton Works
Job #	1022-099
# Samples	6 Canisters

Custody

Matt Loftis received the samples on 10/28/22 after being relinquished by All4, Inc. The samples were received at ambient temperature and in good condition.

Prior to, during, and after analysis, the samples were kept under lock with access only to authorized personnel by Enthalpy Analytical, LLC.

Analysis

The samples were analyzed for the TO-15 target compound list using the analytical procedures in EPA Method TO-15, *Determination of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters And Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*.

Upon receipt, the canister pressures were measured and recorded. The canisters were then pressurized with UHP nitrogen and a dilution ratio was calculated for each canister. See the Canister Pressurization Datasheet located in the Results section of this report.

All samples were analyzed undiluted and sample **VOC05_221025_S** was analyzed at a subsequent 10-fold analytical dilution to bring benzene within the instrument's calibration range. Dilution factors are displayed in the sample header information.

The Agilent Technologies Model 6890N, Gas Chromatograph "Xavier" (S/N US10721018) equipped with a 5975C VL Mass Selective Detector (S/N US71215962) was used for this analysis. All samples and standards were introduced directly to the analyzer using an Entech 7200 Preconcentrator.

Calibration

The associated BFB tune analyses associated with the initial and continuing calibrations met all method acceptance criteria.

The initial calibration (**X100722A-TO15**) met the 30% RSD criteria. The initial calibration verification (ICV) met the 70-130% recovery criteria. The continuing calibration (CCV) met the 30% difference criteria. Full calibration data is available upon request.



Enthalpy Analytical Narrative Summary (continued)

Chromatographic Conditions

The acquisition method (*TO15-SCNv6.M*) may be made available upon request.

QC Notes

All internal standard area responses and retention time criteria were met for these analyses.

The Laboratory Control Samples (LCS) associated with this sample data met 70-130% recovery criteria.

The Laboratory Duplicates (LD) associated with this sample data met the 25% difference acceptance criteria. The LCS was also analyzed in duplicate and met the 25% difference criteria for all compounds.

The laboratory humid blanks associated with this analysis did not contain any of the target analytes at a concentration greater than 3x their MDL.

The samples were analyzed within the 7-day holding time requested in the ICR protocol. The dilution analysis of sample *VOC05_221025_S* Can #0821 was analyzed outside of the 7-day holding time, but within the 30-day holding time required by the method.

Reporting Notes

These analyses met the requirements of the TNI Standard. Any deviations from the requirements of the reference method or TNI Standard have been stated above.

The results presented in this report are representative of the samples as provided to the laboratory.

General Reporting Notes

The following are general reporting notes that are applicable to all Enthalpy Analytical, LLC data reports, unless specifically noted otherwise.

- Any analysis which refers to the method as “**Type**” represents a planned deviation from the reference method. For instance a Hydrogen Sulfide assay from a Tedlar bag would be labeled as “EPA Method 16-Type” because Tedlar bags are not mentioned as one of the collection options in EPA Method 16.
- The acronym **MDL** represents the Minimum Detection Limit. Below this value the laboratory cannot determine the presence of the analyte of interest reliably.
- The acronym **LOQ** represents the Limit of Quantification. Below this value the laboratory cannot quantitate the analyte of interest within the criteria of the method.
- The acronym **ND** following a value indicates a non-detect or analytical result below the MDL.
- The letter **J** in the Qualifier or Flag column in the results indicates that the value is between the MDL and the LOQ. The laboratory can positively identify the analyte of interest as present, but the value should be considered an estimate.
- The letter **E** in the Qualifier or Flag column indicates an analytical result exceeding 100% of the highest calibration point. The associated value should be considered as an estimate.
- Sample results are presented ‘as measured’ for single injection methodologies, or an average value if multiple injections are made. If all injections are below the MDL, the sample is considered non-detect and the ND value is presented. If one, but not all, are below the MDL, the MDL value is used for any injections that are below the MDL. For example, if the MDL is 0.500 and LOQ is 1.00, and the instrument measures 0.355, 0.620, and 0.442 - the result reported is the average of 0.500, 0.620, and 0.500 - - - i.e. 0.540 with a J flag.
- When a spike recovery (Bag Spike, Collocated Spike Train, or liquid matrix spike) is being calculated, the native (unspiked) sample result is used in the calculations, as long as the value is above the MDL. If a sample is ND, then 0 is used as the native amount (not the MDL value).
- The acronym **DF** represents Dilution Factor. This number represents dilution of the sample during the preparation and/or analysis process. The analytical result taken from a laboratory instrument is multiplied by the DF to determine the final undiluted sample results.
- The addition of **MS** to the Sample ID represents a Matrix Spike. An aliquot of an actual sample is spiked with a known amount of analyte so that a percent recovery value can be determined. The MS analysis indicates what effect the sample matrix may have on the target analyte, i.e. whether or not anything in the sample matrix interferes with the analysis of the analyte(s).



General Reporting Notes

(continued)

- The addition of **MSD** to the Sample ID represents a Matrix Spike Duplicate. Prepared in the same manner as a MS, the use of duplicate matrix spikes allows further confirmation of laboratory quality by showing the consistency of results gained by performing the same steps multiple times.
- The addition of **LD** to the Sample ID represents a Laboratory Duplicate. The analyst prepares an additional aliquot of sample for testing and the results of the duplicate analysis are compared to the initial result. The result should have a difference value of within 10% of the initial result (if the results of the original analysis are greater than the LOQ).
- The addition of **AD** to the Sample ID represents an Alternate Dilution. The analyst prepares an additional aliquot at a different dilution factor (usually double the initial factor). This analysis helps confirm that no additional compound is present and coeluting or sharing absorbance with the analyte of interest, as they would have a different response/absorbance than the analyte of interest.
- The Sample ID **LCS** represents a Laboratory Control Sample. Clean matrix, similar to the client sample matrix, prepared and analyzed by the laboratory using the same reagents, spiking standards and procedures used for the client samples. The LCS is used to assess the control of the laboratory's analytical system. Whenever spikes are prepared for our client projects, two spikes are retained as LCSs. The LCSs are labeled with the associated project number and kept in-house at the appropriate temperature conditions. When the project samples are received for analysis, the LCSs are analyzed to confirm that the analyte could be recovered from the media, separate from the samples which were used on the project and which may have been affected by source matrix, sample collection, and/or sample transport.
- **Significant Figures:** Where the reported value is much greater than unity (1.00) in the units expressed, the number is rounded to a whole number of units, rather than to 3 significant figures. For example, a value of 10,456.45 ug catch is rounded to 10,456 ug. There are five significant digits displayed, but no confidence should be placed on more than two significant digits. In the case of small numbers, generally 3 significant figures are presented, but still only 2 should be used with confidence. Many neat materials are only certified to 3 digits, and as the mathematically correct final result is always 1 digit less than all its pre-cursors - 2 significant figures are what are most defensible.
- **Manual Integration:** The data systems used for processing will flag manually integrated peaks with an "M". There are several reasons a peak may be manually integrated. These reasons will be identified by the following two letter designations on sample chromatograms, if provided in the report. The peak was *not integrated* by the software "**NI**", the peak was *integrated incorrectly* by the software "**II**" or the *wrong peak* was integrated by the software "**WP**". These codes will accompany the analyst's manual integration stamp placed next to the compound name on the chromatogram.



Sample Custody



ENTHALPY

ANALYTICAL

Air Chain of Custody Record

Lab No:

Page:

of

Turn Around Time (rush by advanced notice only)

Standard:

5 Day:

3 Day:

2 Day:

1 Day:

Custom TAT:

X

Enthalpy Analytical - Durham

800 Capitola Drive, Suite 1, Durham, NC 27713

Phone 919-850-4392

CUSTOMER INFORMATION

Company:

ALL4 LLC

Report To:

Dustin Snare

Email:

dsnare@all4inc.com

Address:

2393 Kimberton Rd, Kimberton, PA

Phone:

610-422-1126

Fax:

N/A

PROJECT INFORMATION

Name:

U. S. Steel Corp - Clairton Works

Number:

00701-0002.00

P.O. #:

Address:

Clairton, PA

Global ID:

N/A

Sampled By:

Special Instructions:

Analysis Requested

Sample ID	Type	Equipment Information			Sampling Information						TO-15 VOC										
	(I) Indoor (A) Ambient (SV) Soil Vapor (S) Source	Canister ID	Size (1L, 3L, 6L, 15L)	Flow Controller ID	Sample Start Date	Sample Start Time	Vacuum Start ("Hg)	Sample End Date	Sample End Time	Vacuum End ("Hg)											
1	VOC01-221025-S	A	1881	6L	SB01722	22/10/25	10:45AM	30	22/10/26	10:45AM	6.5	X									
2	VOC02-221025-S	A	1760	6L	SB11937	22/10/25	10:39AM	29	22/10/26	10:39AM	8	X									
3	VOC03-221025-S	A	1715	6L	SB15647	22/10/25	10:32AM	29.5	22/10/26	10:31AM	9	X									
4	VOC03-221025-D	A	0812	6L	SB01604	22/10/25	10:31AM	27	22/10/26	10:30AM	2	X									
5	VOC04-221025-S	A	000065	6L	SB01538	22/10/25	10:23AM	29	22/10/26	10:23AM	3.5	X									
6	VOC05-221025-S	A	0821	6L	SB11938	22/10/25	10:56AM	29	22/10/26	10:56AM	8	X									
7																					
8																					
9																					
10																					

	Signature	Print Name	Company / Title	Date / Time
¹ Relinquished By:		Stacy Arner	ALL4 LLC	22/10/26 - 12:30pm
¹ Received By:		Matt Loftis	EA / Ops Mgr	10-28-22 12:45
² Relinquished By:				
² Received By:				
³ Relinquished By:				
³ Received By:				

**This Is The Last Page
Of This Report.**