

All4, Inc.

2393 Kimberton Road
Kimberton, PA 19442

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

Analytical Report
(1022-152)

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 44 pages.

Report Issued: 1/10/23



Results

Enthalpy Analytical

Job No.: 1022-152-1 EPA Method TO-15 Analysis -- Runs

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

Sample Name VOC01-221219-S
Sample Info. 1022-152; 500mL Load; Can #0779
Sampling Date 2022-12-19 10:07
Received Date 2022-12-22 00:00
Sample Type Sample
Batch Xavier_X122722B.v2
Data File X2202785.D
Dilution 1.000
Pressurization Factor 1.763
Acquisition Date 2022-12-27 18:18
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-152.VOC01-221219-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Propylene	0.742	0.0681	0.0617	1.28	0.117	0.106	
Freon 12 (CCl2F2)	0.422	0.0690	0.0617	2.09	0.341	0.305	
Freon 114 (C2Cl2F4)	ND	0.707	0.0617	ND	4.94	0.431	
Chloromethane	0.542	0.0697	0.0617	1.12	0.144	0.127	
Chloroethene (Vinyl chloride)	ND	0.0704	0.0617	ND	0.180	0.158	
1,3-Butadiene	ND	0.0686	0.0617	ND	0.152	0.136	
Bromomethane	ND	0.0692	0.0617	ND	0.268	0.239	
Chloroethane	ND	0.0716	0.0617	ND	0.189	0.163	
Bromoethene (Vinyl bromide)	ND	0.0690	0.0617	ND	0.301	0.270	
Freon 11 (CCl3F)	0.223	0.0744	0.0617	1.25	0.418	0.346	
Ethanol	1.05	0.0699	0.0705	1.98	0.132	0.133	
Acrolein	0.118	0.0695	0.0617	0.271	0.159	0.141	
Freon 113 (C2Cl3F3)	ND	0.0716	0.0617	ND	0.548	0.473	
1,1-Dichloroethene	ND	0.0709	0.0617	ND	0.281	0.244	
Acetone	0.667	0.0707	0.0617	1.58	0.168	0.146	
Carbon disulfide	ND	0.0703	0.0617	ND	0.219	0.192	
Isopropyl alcohol	0.127	0.0703	0.0617	0.313	0.173	0.152	m
Allyl chloride (3-chloropropene)	ND	0.0761	0.0617	ND	0.238	0.193	
Acetonitrile	0.0921	0.0703	0.0617	0.154	0.118	0.104	
Methylene chloride	0.111	0.0722	0.0617	0.384	0.251	0.214	
trans-1,2-Dichloroethene	ND	0.0719	0.0617	ND	0.285	0.244	
Methyl tert-butyl ether	ND	0.0725	0.0617	ND	0.261	0.222	
Acrylonitrile	ND	0.0718	0.0617	ND	0.156	0.134	
Hexane	0.118	0.0716	0.0617	0.414	0.252	0.217	
1,1-Dichloroethane	ND	0.0700	0.0617	ND	0.283	0.250	
Vinyl acetate	ND	0.0721	0.0617	ND	0.254	0.217	
cis-1,2-Dichloroethene	ND	0.0712	0.0617	ND	0.282	0.244	
Methyl ethyl ketone (2-Butanone)	0.0947	0.0729	0.0617	0.279	0.215	0.182	
Ethyl acetate	ND	0.0704	0.0617	ND	0.253	0.222	
Chloroform	ND	0.0707	0.0617	ND	0.345	0.301	
Tetrahydrofuran	ND	0.0714	0.0617	ND	0.210	0.182	
1,1,1-Trichloroethane	ND	0.0712	0.0617	ND	0.388	0.336	
Cyclohexane	ND	0.0723	0.0617	ND	0.249	0.212	

Enthalpy Analytical

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

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Sampling Date 2022-12-19 10:07
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Pressurization Factor 1.763
Acquisition Date 2022-12-27 18:18
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-152.VOC01-221219-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Carbon tetrachloride	0.0673	0.0710	0.0617	0.423	0.446	0.388	J
Benzene	1.92	0.0709	0.0617	6.13	0.226	0.197	
2,2,4-trimethylpentane	ND	0.0729	0.0617	ND	0.340	0.288	
1,2-Dichloroethane	ND	0.0726	0.0617	ND	0.293	0.250	
Heptane	0.0879	0.0714	0.0617	0.360	0.293	0.253	
Trichloroethene	ND	0.0713	0.0617	ND	0.383	0.331	
1,2-Dichloropropane	ND	0.0710	0.0617	ND	0.328	0.285	
Methyl methacrylate	ND	0.0738	0.0617	ND	0.302	0.252	
1,4-Dioxane	ND	0.0707	0.0617	ND	0.255	0.222	
Bromodichloromethane	ND	0.0712	0.0617	ND	0.477	0.413	
cis-1,3-Dichloropropene	ND	0.0700	0.0617	ND	0.318	0.280	
Methyl isobutyl ketone	ND	0.0733	0.0617	ND	0.300	0.253	
Toluene	0.848	0.0718	0.0617	3.19	0.270	0.232	
trans-1,3-Dichloropropene	ND	0.0728	0.0617	ND	0.330	0.280	
1,1,2-Trichloroethane	ND	0.0717	0.0617	ND	0.391	0.336	
Tetrachloroethene	ND	0.0721	0.0617	ND	0.489	0.418	
2-Hexanone (Methyl butyl ketone)	ND	0.0721	0.0617	ND	0.295	0.253	
Dibromochloromethane	ND	0.0711	0.0617	ND	0.605	0.525	
1,2-Dibromoethane	ND	0.0721	0.0617	ND	0.554	0.474	
Chlorobenzene	ND	0.0726	0.0617	ND	0.334	0.284	
Ethylbenzene	ND	0.0700	0.0617	ND	0.304	0.268	
1,1,1,2-Tetrachloroethane	ND	0.0711	0.0617	ND	0.488	0.423	
m-/p-Xylenes	0.0623	0.0715	0.0617	0.270	0.310	0.268	J
o-Xylene	ND	0.0707	0.0617	ND	0.307	0.268	
Styrene	ND	0.0691	0.0617	ND	0.294	0.263	
Bromoform	ND	0.0707	0.0617	ND	0.731	0.637	
1,1,2,2-Tetrachloroethane	ND	0.0713	0.0617	ND	0.489	0.423	
4-Ethyltoluene	ND	0.0717	0.0617	ND	0.352	0.303	
2-Chlorotoluene	ND	0.0711	0.0617	ND	0.368	0.319	
1,3,5-Trimethylbenzene	ND	0.0715	0.0617	ND	0.351	0.303	
1,2,4-Trimethylbenzene	ND	0.0706	0.0617	ND	0.347	0.303	
1,3-Dichlorobenzene	ND	0.0716	0.0617	ND	0.430	0.371	
1,4-Dichlorobenzene	ND	0.0709	0.0617	ND	0.426	0.371	

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Pressurization Factor 1.763
Acquisition Date 2022-12-27 18:18
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-152.VOC01-221219-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Benzyl chloride	ND	0.0709	0.0617	ND	0.367	0.319	
1,2-Dichlorobenzene	ND	0.0714	0.0617	ND	0.429	0.371	
1,2,4-Trichlorobenzene	ND	0.0702	0.0617	ND	0.521	0.458	
Hexachlorobutadiene	ND	0.0697	0.0617	ND	0.742	0.658	
Naphthalene	ND	0.0710	0.0617	ND	0.372	0.323	
1-Bromopropane	ND	0.0699	0.0617	ND	0.352	0.310	
1-Octene	ND	0.0696	0.0617	ND	0.319	0.283	
n-Octane	ND	0.0726	0.0617	ND	0.339	0.288	
Isopropylbenzene	ND	0.0716	0.0617	ND	0.352	0.303	
n-Propylbenzene	ND	0.0723	0.0617	ND	0.355	0.303	

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	885,143	11.04	5.21	pass
1,4-Difluorobenzene (IS)	3,177,298	12.47	5.16	pass
Chlorobenzene-d5 (IS)	2,914,462	16.60	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.: 1022-152-1 EPA Method TO-15 Analysis -- Runs

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

Sample Name VOC02-221219-S
Sample Info. 1022-152; 500mL Load; Can #1579
Sampling Date 2022-12-19 10:00
Received Date 2022-12-22 00:00
Sample Type Sample
Batch Xavier_X122722B.v2
Data File X2202786.D
Dilution 1.000
Pressurization Factor 1.752
Acquisition Date 2022-12-27 19:12
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-152.VOC02-221219-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Propylene	0.762	0.0677	0.0613	1.31	0.116	0.105	m
Freon 12 (CCl2F2)	0.416	0.0686	0.0613	2.06	0.339	0.303	
Freon 114 (C2Cl2F4)	ND	0.702	0.0613	ND	4.91	0.428	
Chloromethane	0.560	0.0693	0.0613	1.16	0.143	0.127	
Chloroethene (Vinyl chloride)	ND	0.0700	0.0613	ND	0.179	0.157	
1,3-Butadiene	0.0665	0.0682	0.0613	0.147	0.151	0.136	J
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)	0.222	0.0739	0.0613	1.24	0.415	0.344	
Ethanol	1.17	0.0694	0.0701	2.19	0.131	0.132	
Acrolein	0.109	0.0690	0.0613	0.250	0.158	0.140	m
Freon 113 (C2Cl3F3)	ND	0.0711	0.0613	ND	0.545	0.470	
1,1-Dichloroethene	ND	0.0705	0.0613	ND	0.279	0.243	
Acetone	1.02	0.0702	0.0613	2.43	0.167	0.146	
Carbon disulfide	0.231	0.0699	0.0613	0.720	0.217	0.191	
Isopropyl alcohol	0.155	0.0699	0.0613	0.382	0.172	0.151	
Allyl chloride (3-chloropropene)	ND	0.0757	0.0613	ND	0.237	0.192	
Acetonitrile	0.187	0.0699	0.0613	0.313	0.117	0.103	
Methylene chloride	0.178	0.0718	0.0613	0.619	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	0.260	0.221	
Acrylonitrile	ND	0.0713	0.0613	ND	0.155	0.133	
Hexane	0.0923	0.0712	0.0613	0.325	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)	0.200	0.0725	0.0613	0.588	0.214	0.181	
Ethyl acetate	ND	0.0699	0.0613	ND	0.252	0.221	
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	0.0781	0.0718	0.0613	0.269	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 VOC02-221219-S
Sample Info. 1022-152; 500mL Load; Can #1579
Sampling Date 2022-12-19 10:00
Received Date 2022-12-22 00:00
Sample Type Sample
Batch Xavier_X122722B.v2
Data File X2202786.D
Dilution 1.000
Pressurization Factor 1.752
Acquisition Date 2022-12-27 19:12
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-152.VOC02-221219-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Carbon tetrachloride	0.0744	0.0706	0.0613	0.468	0.444	0.385	
Benzene	4.80	0.0705	0.0613	15.3	0.225	0.196	
2,2,4-trimethylpentane	ND	0.0725	0.0613	ND	0.338	0.286	
1,2-Dichloroethane	ND	0.0721	0.0613	ND	0.292	0.248	
Heptane	0.0664	0.0710	0.0613	0.272	0.291	0.251	J
Trichloroethene	ND	0.0708	0.0613	ND	0.380	0.329	
1,2-Dichloropropane	ND	0.0706	0.0613	ND	0.326	0.283	
Methyl methacrylate	ND	0.0734	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	0.411	
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	0.913	0.0713	0.0613	3.44	0.269	0.231	
trans-1,3-Dichloropropene	ND	0.0723	0.0613	ND	0.328	0.278	
1,1,2-Trichloroethane	ND	0.0713	0.0613	ND	0.389	0.334	
Tetrachloroethene	ND	0.0717	0.0613	ND	0.486	0.416	
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	0.485	0.421	
m-/p-Xylenes	0.0754	0.0711	0.0613	0.327	0.308	0.266	
o-Xylene	ND	0.0702	0.0613	ND	0.305	0.266	
Styrene	ND	0.0687	0.0613	ND	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	0.0713	0.0613	ND	0.350	0.301	
2-Chlorotoluene	ND	0.0707	0.0613	ND	0.366	0.317	
1,3,5-Trimethylbenzene	ND	0.0711	0.0613	ND	0.349	0.301	
1,2,4-Trimethylbenzene	ND	0.0701	0.0613	ND	0.345	0.301	
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	

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Pressurization Factor 1.752
Acquisition Date 2022-12-27 19:12
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-152.VOC02-221219-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	0.518	0.455	
Hexachlorobutadiene	ND	0.0692	0.0613	ND	0.738	0.653	
Naphthalene	0.0936	0.0706	0.0613	0.491	0.370	0.321	
1-Bromopropane	ND	0.0695	0.0613	ND	0.349	0.308	
1-Octene	ND	0.0692	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)	832,429	11.04	5.21	pass
1,4-Difluorobenzene (IS)	3,073,308	12.47	5.16	pass
Chlorobenzene-d5 (IS)	2,797,952	16.60	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

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

Sample Name VOC03-221219-S
Sample Info. 1022-152; 500mL Load; Can #000092
Sampling Date 2022-12-19 09:55
Received Date 2022-12-22 00:00
Sample Type Sample
Batch Xavier_X122722B.v2
Data File X2202787.D
Dilution 1.000
Pressurization Factor 1.756
Acquisition Date 2022-12-27 20:06
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-152.VOC03-221219-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Propylene	0.757	0.0679	0.0615	1.30	0.117	0.106	
Freon 12 (CCl2F2)	0.434	0.0688	0.0615	2.14	0.340	0.304	
Freon 114 (C2Cl2F4)	ND	0.704	0.0615	ND	4.92	0.429	
Chloromethane	0.529	0.0695	0.0615	1.09	0.143	0.127	
Chloroethene (Vinyl chloride)	ND	0.0702	0.0615	ND	0.179	0.157	
1,3-Butadiene	ND	0.0683	0.0615	ND	0.151	0.136	
Bromomethane	ND	0.0689	0.0615	ND	0.267	0.239	
Chloroethane	ND	0.0714	0.0615	ND	0.188	0.162	
Bromoethene (Vinyl bromide)	ND	0.0687	0.0615	ND	0.300	0.269	
Freon 11 (CCl3F)	0.209	0.0741	0.0615	1.18	0.416	0.345	
Ethanol	0.978	0.0696	0.0702	1.84	0.131	0.132	
Acrolein	0.0696	0.0692	0.0615	0.160	0.159	0.141	
Freon 113 (C2Cl3F3)	0.0638	0.0713	0.0615	0.489	0.546	0.471	J
1,1-Dichloroethene	ND	0.0707	0.0615	ND	0.280	0.244	
Acetone	0.576	0.0704	0.0615	1.37	0.167	0.146	
Carbon disulfide	0.0626	0.0700	0.0615	0.195	0.218	0.191	J
Isopropyl alcohol	0.169	0.0700	0.0615	0.416	0.172	0.151	
Allyl chloride (3-chloropropene)	ND	0.0759	0.0615	ND	0.237	0.192	
Acetonitrile	0.217	0.0700	0.0615	0.364	0.118	0.103	
Methylene chloride	0.115	0.0719	0.0615	0.399	0.250	0.213	m
trans-1,2-Dichloroethene	ND	0.0716	0.0615	ND	0.284	0.244	
Methyl tert-butyl ether	ND	0.0722	0.0615	ND	0.260	0.221	
Acrylonitrile	ND	0.0715	0.0615	ND	0.155	0.133	
Hexane	0.0722	0.0714	0.0615	0.254	0.251	0.217	m
1,1-Dichloroethane	ND	0.0698	0.0615	ND	0.282	0.249	
Vinyl acetate	ND	0.0719	0.0615	ND	0.253	0.216	
cis-1,2-Dichloroethene	ND	0.0709	0.0615	ND	0.281	0.244	
Methyl ethyl ketone (2-Butanone)	0.108	0.0726	0.0615	0.317	0.214	0.181	m
Ethyl acetate	ND	0.0701	0.0615	ND	0.252	0.221	
Chloroform	ND	0.0705	0.0615	ND	0.344	0.300	
Tetrahydrofuran	ND	0.0711	0.0615	ND	0.210	0.181	
1,1,1-Trichloroethane	ND	0.0709	0.0615	ND	0.387	0.335	
Cyclohexane	ND	0.0720	0.0615	ND	0.248	0.211	

Enthalpy Analytical

Job No.: 1022-152-1 EPA Method TO-15 Analysis -- Runs

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

Sample Name VOC03-221219-S
Sample Info. 1022-152; 500mL Load; Can #000092
Sampling Date 2022-12-19 09:55
Received Date 2022-12-22 00:00
Sample Type Sample
Batch Xavier_X122722B.v2
Data File X2202787.D
Dilution 1.000
Pressurization Factor 1.756
Acquisition Date 2022-12-27 20:06
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-152.VOC03-221219-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	0.0812	0.0707	0.0615	0.511	0.445	0.386	
Benzene	8.54	0.0707	0.0615	27.3	0.226	0.196	
2,2,4-trimethylpentane	ND	0.0726	0.0615	ND	0.339	0.287	
1,2-Dichloroethane	ND	0.0723	0.0615	ND	0.292	0.249	
Heptane	ND	0.0712	0.0615	ND	0.291	0.252	
Trichloroethene	ND	0.0710	0.0615	ND	0.381	0.330	
1,2-Dichloropropane	ND	0.0707	0.0615	ND	0.327	0.284	
Methyl methacrylate	ND	0.0735	0.0615	ND	0.301	0.252	
1,4-Dioxane	ND	0.0705	0.0615	ND	0.254	0.221	
Bromodichloromethane	ND	0.0709	0.0615	ND	0.475	0.412	
cis-1,3-Dichloropropene	ND	0.0698	0.0615	ND	0.316	0.279	
Methyl isobutyl ketone	ND	0.0730	0.0615	ND	0.299	0.252	
Toluene	1.02	0.0715	0.0615	3.86	0.269	0.231	
trans-1,3-Dichloropropene	ND	0.0725	0.0615	ND	0.329	0.279	
1,1,2-Trichloroethane	ND	0.0714	0.0615	ND	0.390	0.335	
Tetrachloroethene	ND	0.0719	0.0615	ND	0.487	0.417	
2-Hexanone (Methyl butyl ketone)	ND	0.0719	0.0615	ND	0.294	0.252	
Dibromochloromethane	ND	0.0708	0.0615	ND	0.603	0.523	
1,2-Dibromoethane	ND	0.0719	0.0615	ND	0.552	0.472	
Chlorobenzene	ND	0.0723	0.0615	ND	0.333	0.283	
Ethylbenzene	ND	0.0698	0.0615	ND	0.303	0.267	
1,1,1,2-Tetrachloroethane	ND	0.0708	0.0615	ND	0.486	0.422	
m-/p-Xylenes	0.0737	0.0712	0.0615	0.320	0.309	0.267	
o-Xylene	ND	0.0704	0.0615	ND	0.305	0.267	
Styrene	ND	0.0688	0.0615	ND	0.293	0.262	
Bromoform	ND	0.0705	0.0615	ND	0.728	0.635	
1,1,2,2-Tetrachloroethane	ND	0.0710	0.0615	ND	0.487	0.422	
4-Ethyltoluene	ND	0.0714	0.0615	ND	0.351	0.302	
2-Chlorotoluene	ND	0.0709	0.0615	ND	0.367	0.318	
1,3,5-Trimethylbenzene	ND	0.0712	0.0615	ND	0.350	0.302	
1,2,4-Trimethylbenzene	ND	0.0703	0.0615	ND	0.345	0.302	
1,3-Dichlorobenzene	ND	0.0714	0.0615	ND	0.429	0.369	
1,4-Dichlorobenzene	ND	0.0706	0.0615	ND	0.424	0.369	

Enthalpy Analytical

Job No.: 1022-152-1 EPA Method TO-15 Analysis -- Runs

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

Sample Name VOC03-221219-S
Sample Info. 1022-152; 500mL Load; Can #000092
Sampling Date 2022-12-19 09:55
Received Date 2022-12-22 00:00
Sample Type Sample
Batch Xavier_X122722B.v2
Data File X2202787.D
Dilution 1.000
Pressurization Factor 1.756
Acquisition Date 2022-12-27 20:06
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-152.VOC03-221219-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Benzyl chloride	ND	0.0707	0.0615	ND	0.366	0.318	
1,2-Dichlorobenzene	ND	0.0712	0.0615	ND	0.428	0.369	
1,2,4-Trichlorobenzene	ND	0.0700	0.0615	ND	0.519	0.456	
Hexachlorobutadiene	ND	0.0694	0.0615	ND	0.740	0.655	
Naphthalene	0.0857	0.0707	0.0615	0.449	0.371	0.322	
1-Bromopropane	ND	0.0697	0.0615	ND	0.350	0.309	
1-Octene	ND	0.0693	0.0615	ND	0.318	0.282	
n-Octane	ND	0.0723	0.0615	ND	0.338	0.287	
Isopropylbenzene	ND	0.0714	0.0615	ND	0.351	0.302	
n-Propylbenzene	ND	0.0721	0.0615	ND	0.354	0.302	

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	843,962	11.04	5.21	pass
1,4-Difluorobenzene (IS)	3,060,413	12.47	5.16	pass
Chlorobenzene-d5 (IS)	2,807,332	16.60	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.: 1022-152-1 EPA Method TO-15 Analysis -- Runs

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

Sample Name VOC03-221219-D
Sample Info. 1022-152; 500mL Load; Can #000020
Sampling Date 2022-12-19 09:55
Received Date 2022-12-22 00:00
Sample Type Sample
Batch Xavier_X122722B.v2
Data File X2202788.D
Dilution 1.000
Pressurization Factor 1.761
Acquisition Date 2022-12-27 21:01
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-152.VOC03-221219-D.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Propylene	0.768	0.0680	0.0616	1.32	0.117	0.106	
Freon 12 (CCl2F2)	0.427	0.0689	0.0616	2.11	0.341	0.305	
Freon 114 (C2Cl2F4)	ND	0.706	0.0616	ND	4.93	0.430	
Chloromethane	0.550	0.0696	0.0616	1.14	0.144	0.127	
Chloroethene (Vinyl chloride)	ND	0.0704	0.0616	ND	0.180	0.157	
1,3-Butadiene	ND	0.0685	0.0616	ND	0.151	0.136	
Bromomethane	ND	0.0691	0.0616	ND	0.268	0.239	
Chloroethane	ND	0.0715	0.0616	ND	0.189	0.162	
Bromoethene (Vinyl bromide)	ND	0.0689	0.0616	ND	0.301	0.269	
Freon 11 (CCl3F)	0.217	0.0743	0.0616	1.22	0.417	0.346	
Ethanol	0.794	0.0698	0.0704	1.50	0.131	0.133	
Acrolein	0.0678	0.0694	0.0616	0.155	0.159	0.141	J
Freon 113 (C2Cl3F3)	0.0731	0.0715	0.0616	0.560	0.547	0.472	
1,1-Dichloroethene	ND	0.0708	0.0616	ND	0.281	0.244	
Acetone	0.588	0.0706	0.0616	1.40	0.168	0.146	
Carbon disulfide	ND	0.0702	0.0616	ND	0.219	0.192	
Isopropyl alcohol	0.117	0.0702	0.0616	0.287	0.172	0.151	m
Allyl chloride (3-chloropropene)	ND	0.0761	0.0616	ND	0.238	0.193	
Acetonitrile	0.179	0.0702	0.0616	0.300	0.118	0.103	
Methylene chloride	0.111	0.0721	0.0616	0.386	0.250	0.214	
trans-1,2-Dichloroethene	ND	0.0718	0.0616	ND	0.285	0.244	
Methyl tert-butyl ether	ND	0.0724	0.0616	ND	0.261	0.222	
Acrylonitrile	ND	0.0717	0.0616	ND	0.155	0.134	
Hexane	0.0753	0.0715	0.0616	0.265	0.252	0.217	
1,1-Dichloroethane	ND	0.0699	0.0616	ND	0.283	0.249	
Vinyl acetate	ND	0.0720	0.0616	ND	0.254	0.217	
cis-1,2-Dichloroethene	ND	0.0711	0.0616	ND	0.282	0.244	
Methyl ethyl ketone (2-Butanone)	0.131	0.0728	0.0616	0.387	0.215	0.182	m
Ethyl acetate	ND	0.0703	0.0616	ND	0.253	0.222	
Chloroform	ND	0.0706	0.0616	ND	0.345	0.301	
Tetrahydrofuran	ND	0.0713	0.0616	ND	0.210	0.182	
1,1,1-Trichloroethane	ND	0.0711	0.0616	ND	0.388	0.336	
Cyclohexane	ND	0.0722	0.0616	ND	0.248	0.212	

Enthalpy Analytical

Job No.: 1022-152-1 EPA Method TO-15 Analysis -- Runs
 All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC03-221219-D
 Sample Info. 1022-152; 500mL Load; Can #000020
 Sampling Date 2022-12-19 09:55
 Received Date 2022-12-22 00:00
 Sample Type Sample
 Batch Xavier_X122722B.v2
 Data File X2202788.D
 Dilution 1.000
 Pressurization Factor 1.761
 Acquisition Date 2022-12-27 21:01
 Instrument Method TO15_SCNV6.M
 Matrix Air
 Analyst TDD
 Instrument Xavier
 Enthalpy ID 1022-152.VOC03-221219-D.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m ³)	RL (ug/m ³)	MDL (ug/m ³)	Flags
Carbon tetrachloride	0.0739	0.0709	0.0616	0.464	0.446	0.387	
Benzene	7.85	0.0708	0.0616	25.1	0.226	0.197	
2,2,4-trimethylpentane	ND	0.0728	0.0616	ND	0.340	0.288	
1,2-Dichloroethane	ND	0.0725	0.0616	ND	0.293	0.249	
Heptane	ND	0.0713	0.0616	ND	0.292	0.252	
Trichloroethene	ND	0.0712	0.0616	ND	0.382	0.331	
1,2-Dichloropropane	ND	0.0709	0.0616	ND	0.328	0.285	
Methyl methacrylate	ND	0.0737	0.0616	ND	0.302	0.252	
1,4-Dioxane	ND	0.0706	0.0616	ND	0.254	0.222	
Bromodichloromethane	ND	0.0711	0.0616	ND	0.476	0.413	
cis-1,3-Dichloropropene	ND	0.0699	0.0616	ND	0.317	0.279	
Methyl isobutyl ketone	ND	0.0732	0.0616	ND	0.300	0.252	
Toluene	1.06	0.0717	0.0616	3.99	0.270	0.232	
trans-1,3-Dichloropropene	ND	0.0727	0.0616	ND	0.330	0.279	
1,1,2-Trichloroethane	ND	0.0716	0.0616	ND	0.391	0.336	
Tetrachloroethene	ND	0.0720	0.0616	ND	0.488	0.418	
2-Hexanone (Methyl butyl ketone)	ND	0.0720	0.0616	ND	0.295	0.252	
Dibromochloromethane	ND	0.0710	0.0616	ND	0.604	0.525	
1,2-Dibromoethane	ND	0.0720	0.0616	ND	0.553	0.473	
Chlorobenzene	ND	0.0725	0.0616	ND	0.334	0.284	
Ethylbenzene	ND	0.0699	0.0616	ND	0.303	0.267	
1,1,1,2-Tetrachloroethane	ND	0.0710	0.0616	ND	0.487	0.423	
m-/p-Xylenes	0.103	0.0714	0.0616	0.445	0.310	0.267	
o-Xylene	ND	0.0706	0.0616	ND	0.306	0.267	
Styrene	ND	0.0690	0.0616	ND	0.294	0.262	
Bromoform	ND	0.0706	0.0616	ND	0.730	0.637	
1,1,2,2-Tetrachloroethane	ND	0.0712	0.0616	ND	0.488	0.423	
4-Ethyltoluene	ND	0.0716	0.0616	ND	0.352	0.303	
2-Chlorotoluene	ND	0.0711	0.0616	ND	0.368	0.319	
1,3,5-Trimethylbenzene	ND	0.0714	0.0616	ND	0.351	0.303	
1,2,4-Trimethylbenzene	ND	0.0705	0.0616	ND	0.346	0.303	
1,3-Dichlorobenzene	ND	0.0715	0.0616	ND	0.430	0.370	
1,4-Dichlorobenzene	ND	0.0708	0.0616	ND	0.425	0.370	

Enthalpy Analytical

Job No.: 1022-152-1 EPA Method TO-15 Analysis -- Runs

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

Sample Name VOC03-221219-D
Sample Info. 1022-152; 500mL Load; Can #000020
Sampling Date 2022-12-19 09:55
Received Date 2022-12-22 00:00
Sample Type Sample
Batch Xavier_X122722B.v2
Data File X2202788.D
Dilution 1.000
Pressurization Factor 1.761
Acquisition Date 2022-12-27 21:01
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-152.VOC03-221219-D.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Benzyl chloride	ND	0.0708	0.0616	ND	0.367	0.319	
1,2-Dichlorobenzene	ND	0.0713	0.0616	ND	0.429	0.370	
1,2,4-Trichlorobenzene	ND	0.0701	0.0616	ND	0.520	0.457	
Hexachlorobutadiene	ND	0.0696	0.0616	ND	0.742	0.657	
Naphthalene	0.450	0.0709	0.0616	2.36	0.372	0.323	
1-Bromopropane	ND	0.0699	0.0616	ND	0.351	0.310	
1-Octene	ND	0.0695	0.0616	ND	0.319	0.283	
n-Octane	ND	0.0725	0.0616	ND	0.339	0.288	
Isopropylbenzene	ND	0.0715	0.0616	ND	0.351	0.303	
n-Propylbenzene	ND	0.0723	0.0616	ND	0.355	0.303	

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	827,123	11.04	5.21	pass
1,4-Difluorobenzene (IS)	3,029,550	12.47	5.16	pass
Chlorobenzene-d5 (IS)	2,778,358	16.60	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.: 1022-152-1 EPA Method TO-15 Analysis -- Runs

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

Sample Name VOC04-221219-S
Sample Info. 1022-152; 500mL Load; Can #0704
Sampling Date 2022-12-19 09:46
Received Date 2022-12-22 00:00
Sample Type Sample
Batch Xavier_X122722B.v2
Data File X2202789.D
Dilution 1.000
Pressurization Factor 1.757
Acquisition Date 2022-12-27 21:55
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-152.VOC04-221219-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Propylene	0.708	0.0679	0.0615	1.22	0.117	0.106	
Freon 12 (CCl2F2)	0.430	0.0688	0.0615	2.13	0.340	0.304	
Freon 114 (C2Cl2F4)	ND	0.704	0.0615	ND	4.92	0.430	
Chloromethane	0.546	0.0695	0.0615	1.13	0.143	0.127	
Chloroethene (Vinyl chloride)	ND	0.0702	0.0615	ND	0.179	0.157	
1,3-Butadiene	ND	0.0684	0.0615	ND	0.151	0.136	
Bromomethane	ND	0.0689	0.0615	ND	0.268	0.239	
Chloroethane	ND	0.0714	0.0615	ND	0.188	0.162	
Bromoethene (Vinyl bromide)	ND	0.0687	0.0615	ND	0.300	0.269	
Freon 11 (CCl3F)	0.208	0.0741	0.0615	1.17	0.416	0.345	
Ethanol	0.935	0.0696	0.0703	1.76	0.131	0.132	
Acrolein	0.0796	0.0692	0.0615	0.182	0.159	0.141	
Freon 113 (C2Cl3F3)	0.0701	0.0713	0.0615	0.537	0.546	0.471	J, m
1,1-Dichloroethene	ND	0.0707	0.0615	ND	0.280	0.244	
Acetone	0.643	0.0704	0.0615	1.53	0.167	0.146	
Carbon disulfide	0.0695	0.0701	0.0615	0.216	0.218	0.191	J
Isopropyl alcohol	0.123	0.0701	0.0615	0.302	0.172	0.151	m
Allyl chloride (3-chloropropene)	ND	0.0759	0.0615	ND	0.237	0.192	
Acetonitrile	0.102	0.0701	0.0615	0.172	0.118	0.103	
Methylene chloride	0.134	0.0720	0.0615	0.466	0.250	0.213	
trans-1,2-Dichloroethene	ND	0.0717	0.0615	ND	0.284	0.244	
Methyl tert-butyl ether	ND	0.0722	0.0615	ND	0.260	0.222	
Acrylonitrile	ND	0.0715	0.0615	ND	0.155	0.133	
Hexane	0.0818	0.0714	0.0615	0.288	0.252	0.217	
1,1-Dichloroethane	ND	0.0698	0.0615	ND	0.282	0.249	
Vinyl acetate	ND	0.0719	0.0615	ND	0.253	0.216	
cis-1,2-Dichloroethene	ND	0.0710	0.0615	ND	0.281	0.244	
Methyl ethyl ketone (2-Butanone)	0.143	0.0727	0.0615	0.423	0.214	0.181	m
Ethyl acetate	ND	0.0701	0.0615	ND	0.253	0.221	
Chloroform	ND	0.0705	0.0615	ND	0.344	0.300	
Tetrahydrofuran	ND	0.0711	0.0615	ND	0.210	0.181	
1,1,1-Trichloroethane	ND	0.0710	0.0615	ND	0.387	0.335	
Cyclohexane	ND	0.0720	0.0615	ND	0.248	0.212	

Enthalpy Analytical

Job No.: 1022-152-1 EPA Method TO-15 Analysis -- Runs

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

Sample Name VOC04-221219-S
 Sample Info. 1022-152; 500mL Load; Can #0704
 Sampling Date 2022-12-19 09:46
 Received Date 2022-12-22 00:00
 Sample Type Sample
 Batch Xavier_X122722B.v2
 Data File X2202789.D
 Dilution 1.000
 Pressurization Factor 1.757
 Acquisition Date 2022-12-27 21:55
 Instrument Method TO15_SCNV6.M
 Matrix Air
 Analyst TDD
 Instrument Xavier
 Enthalpy ID 1022-152.VOC04-221219-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Carbon tetrachloride	0.0788	0.0708	0.0615	0.495	0.445	0.387	
Benzene	2.10	0.0707	0.0615	6.70	0.226	0.196	
2,2,4-trimethylpentane	ND	0.0727	0.0615	ND	0.339	0.287	
1,2-Dichloroethane	ND	0.0723	0.0615	ND	0.293	0.249	
Heptane	ND	0.0712	0.0615	ND	0.292	0.252	
Trichloroethene	ND	0.0710	0.0615	ND	0.382	0.330	
1,2-Dichloropropane	ND	0.0708	0.0615	ND	0.327	0.284	
Methyl methacrylate	ND	0.0736	0.0615	ND	0.301	0.252	
1,4-Dioxane	ND	0.0705	0.0615	ND	0.254	0.221	
Bromodichloromethane	ND	0.0710	0.0615	ND	0.475	0.412	
cis-1,3-Dichloropropene	ND	0.0698	0.0615	ND	0.317	0.279	
Methyl isobutyl ketone	ND	0.0730	0.0615	ND	0.299	0.252	
Toluene	0.487	0.0715	0.0615	1.83	0.269	0.232	
trans-1,3-Dichloropropene	ND	0.0725	0.0615	ND	0.329	0.279	
1,1,2-Trichloroethane	ND	0.0715	0.0615	ND	0.390	0.335	
Tetrachloroethene	ND	0.0719	0.0615	ND	0.487	0.417	
2-Hexanone (Methyl butyl ketone)	ND	0.0719	0.0615	ND	0.294	0.252	
Dibromochloromethane	ND	0.0708	0.0615	ND	0.603	0.523	
1,2-Dibromoethane	ND	0.0719	0.0615	ND	0.552	0.472	
Chlorobenzene	ND	0.0724	0.0615	ND	0.333	0.283	
Ethylbenzene	ND	0.0698	0.0615	ND	0.303	0.267	
1,1,1,2-Tetrachloroethane	ND	0.0708	0.0615	ND	0.486	0.422	
m-/p-Xylenes	ND	0.0713	0.0615	ND	0.309	0.267	
o-Xylene	ND	0.0704	0.0615	ND	0.306	0.267	
Styrene	ND	0.0689	0.0615	ND	0.293	0.262	
Bromoform	ND	0.0705	0.0615	ND	0.728	0.635	
1,1,2,2-Tetrachloroethane	ND	0.0710	0.0615	ND	0.487	0.422	
4-Ethyltoluene	ND	0.0715	0.0615	ND	0.351	0.302	
2-Chlorotoluene	ND	0.0709	0.0615	ND	0.367	0.318	
1,3,5-Trimethylbenzene	ND	0.0713	0.0615	ND	0.350	0.302	
1,2,4-Trimethylbenzene	ND	0.0703	0.0615	ND	0.346	0.302	
1,3-Dichlorobenzene	ND	0.0714	0.0615	ND	0.429	0.369	
1,4-Dichlorobenzene	ND	0.0706	0.0615	ND	0.424	0.369	

Enthalpy Analytical

Job No.: 1022-152-1 EPA Method TO-15 Analysis -- Runs

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

Sample Name VOC04-221219-S
Sample Info. 1022-152; 500mL Load; Can #0704
Sampling Date 2022-12-19 09:46
Received Date 2022-12-22 00:00
Sample Type Sample
Batch Xavier_X122722B.v2
Data File X2202789.D
Dilution 1.000
Pressurization Factor 1.757
Acquisition Date 2022-12-27 21:55
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-152.VOC04-221219-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Benzyl chloride	ND	0.0707	0.0615	ND	0.366	0.318	
1,2-Dichlorobenzene	ND	0.0712	0.0615	ND	0.428	0.369	
1,2,4-Trichlorobenzene	ND	0.0700	0.0615	ND	0.519	0.456	
Hexachlorobutadiene	ND	0.0694	0.0615	ND	0.740	0.655	
Naphthalene	ND	0.0708	0.0615	ND	0.371	0.322	
1-Bromopropane	ND	0.0697	0.0615	ND	0.350	0.309	
1-Octene	ND	0.0694	0.0615	ND	0.318	0.282	
n-Octane	ND	0.0724	0.0615	ND	0.338	0.287	
Isopropylbenzene	ND	0.0714	0.0615	ND	0.351	0.302	
n-Propylbenzene	ND	0.0721	0.0615	ND	0.354	0.302	

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	804,116	11.04	5.21	pass
1,4-Difluorobenzene (IS)	2,978,142	12.47	5.16	pass
Chlorobenzene-d5 (IS)	2,746,161	16.60	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.: 1022-152-1 EPA Method TO-15 Analysis -- Runs

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

Sample Name VOC05-221219-S
Sample Info. 1022-152; 500mL Load; Can #1711
Sampling Date 2022-12-19 10:15
Received Date 2022-12-22 00:00
Sample Type Sample
Batch Xavier_X122722B.v2
Data File X2202791.D
Dilution 1.000
Pressurization Factor 1.761
Acquisition Date 2022-12-27 23:44
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-152.VOC05-221219-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Propylene	2.20	0.0680	0.0616	3.78	0.117	0.106	
Freon 12 (CCl2F2)	0.453	0.0690	0.0616	2.24	0.341	0.305	
Freon 114 (C2Cl2F4)	ND	0.706	0.0616	ND	4.93	0.431	
Chloromethane	0.572	0.0697	0.0616	1.18	0.144	0.127	
Chloroethene (Vinyl chloride)	ND	0.0704	0.0616	ND	0.180	0.157	
1,3-Butadiene	0.220	0.0685	0.0616	0.487	0.152	0.136	
Bromomethane	ND	0.0691	0.0616	ND	0.268	0.239	
Chloroethane	ND	0.0716	0.0616	ND	0.189	0.163	
Bromoethene (Vinyl bromide)	ND	0.0689	0.0616	ND	0.301	0.269	
Freon 11 (CCl3F)	0.221	0.0743	0.0616	1.24	0.417	0.346	
Ethanol	1.09	0.0698	0.0704	2.06	0.131	0.133	
Acrolein	0.171	0.0694	0.0616	0.391	0.159	0.141	
Freon 113 (C2Cl3F3)	0.0685	0.0715	0.0616	0.525	0.548	0.472	J
1,1-Dichloroethene	ND	0.0709	0.0616	ND	0.281	0.244	
Acetone	0.805	0.0706	0.0616	1.91	0.168	0.146	
Carbon disulfide	1.11	0.0702	0.0616	3.47	0.219	0.192	
Isopropyl alcohol	0.268	0.0702	0.0616	0.658	0.173	0.151	
Allyl chloride (3-chloropropene)	ND	0.0761	0.0616	ND	0.238	0.193	
Acetonitrile	5.54	0.0702	0.0616	9.30	0.118	0.103	
Methylene chloride	0.130	0.0721	0.0616	0.450	0.250	0.214	
trans-1,2-Dichloroethene	ND	0.0719	0.0616	ND	0.285	0.244	
Methyl tert-butyl ether	ND	0.0724	0.0616	ND	0.261	0.222	
Acrylonitrile	0.0659	0.0717	0.0616	0.143	0.156	0.134	J
Hexane	0.110	0.0716	0.0616	0.386	0.252	0.217	
1,1-Dichloroethane	ND	0.0699	0.0616	ND	0.283	0.249	
Vinyl acetate	ND	0.0721	0.0616	ND	0.254	0.217	
cis-1,2-Dichloroethene	ND	0.0711	0.0616	ND	0.282	0.244	
Methyl ethyl ketone (2-Butanone)	0.139	0.0728	0.0616	0.409	0.215	0.182	m
Ethyl acetate	ND	0.0703	0.0616	ND	0.253	0.222	
Chloroform	ND	0.0707	0.0616	ND	0.345	0.301	
Tetrahydrofuran	ND	0.0713	0.0616	ND	0.210	0.182	
1,1,1-Trichloroethane	ND	0.0711	0.0616	ND	0.388	0.336	
Cyclohexane	0.0751	0.0722	0.0616	0.258	0.248	0.212	

Enthalpy Analytical

Job No.: 1022-152-1 EPA Method TO-15 Analysis -- Runs

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

Sample Name VOC05-221219-S
Sample Info. 1022-152; 500mL Load; Can #1711
Sampling Date 2022-12-19 10:15
Received Date 2022-12-22 00:00
Sample Type Sample
Batch Xavier_X122722B.v2
Data File X2202791.D
Dilution 1.000
Pressurization Factor 1.761
Acquisition Date 2022-12-27 23:44
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-152.VOC05-221219-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Carbon tetrachloride	0.0688	0.0709	0.0616	0.433	0.446	0.388	J
2,2,4-trimethylpentane	ND	0.0728	0.0616	ND	0.340	0.288	
1,2-Dichloroethane	ND	0.0725	0.0616	ND	0.293	0.249	
Heptane	ND	0.0714	0.0616	ND	0.292	0.252	
Trichloroethene	ND	0.0712	0.0616	ND	0.382	0.331	
1,2-Dichloropropane	ND	0.0709	0.0616	ND	0.328	0.285	
Methyl methacrylate	ND	0.0738	0.0616	ND	0.302	0.252	
1,4-Dioxane	ND	0.0707	0.0616	ND	0.254	0.222	
Bromodichloromethane	ND	0.0711	0.0616	ND	0.476	0.413	
cis-1,3-Dichloropropene	ND	0.0699	0.0616	ND	0.317	0.280	
Methyl isobutyl ketone	ND	0.0732	0.0616	ND	0.300	0.252	
Toluene	7.47	0.0717	0.0616	28.1	0.270	0.232	
trans-1,3-Dichloropropene	ND	0.0727	0.0616	ND	0.330	0.280	
1,1,2-Trichloroethane	ND	0.0716	0.0616	ND	0.391	0.336	
Tetrachloroethene	ND	0.0721	0.0616	ND	0.488	0.418	
2-Hexanone (Methyl butyl ketone)	ND	0.0721	0.0616	ND	0.295	0.252	
Dibromochloromethane	ND	0.0710	0.0616	ND	0.604	0.525	
1,2-Dibromoethane	ND	0.0721	0.0616	ND	0.553	0.473	
Chlorobenzene	ND	0.0726	0.0616	ND	0.334	0.284	
Ethylbenzene	ND	0.0699	0.0616	ND	0.304	0.267	
1,1,1,2-Tetrachloroethane	ND	0.0710	0.0616	ND	0.487	0.423	
m-/p-Xylenes	1.06	0.0714	0.0616	4.59	0.310	0.267	
o-Xylene	0.224	0.0706	0.0616	0.972	0.306	0.267	
Styrene	0.685	0.0690	0.0616	2.92	0.294	0.262	
Bromoform	ND	0.0707	0.0616	ND	0.730	0.637	
1,1,2,2-Tetrachloroethane	ND	0.0712	0.0616	ND	0.489	0.423	
4-Ethyltoluene	ND	0.0716	0.0616	ND	0.352	0.303	
2-Chlorotoluene	ND	0.0711	0.0616	ND	0.368	0.319	
1,3,5-Trimethylbenzene	0.0925	0.0714	0.0616	0.454	0.351	0.303	m
1,2,4-Trimethylbenzene	0.130	0.0705	0.0616	0.640	0.346	0.303	
1,3-Dichlorobenzene	ND	0.0716	0.0616	ND	0.430	0.370	
1,4-Dichlorobenzene	ND	0.0708	0.0616	ND	0.425	0.370	
Benzyl chloride	ND	0.0709	0.0616	ND	0.367	0.319	

Enthalpy Analytical

Job No.: 1022-152-1 EPA Method TO-15 Analysis -- Runs

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

Sample Name VOC05-221219-S
Sample Info. 1022-152; 500mL Load; Can #1711
Sampling Date 2022-12-19 10:15
Received Date 2022-12-22 00:00
Sample Type Sample
Batch Xavier_X122722B.v2
Data File X2202791.D
Dilution 1.000
Pressurization Factor 1.761
Acquisition Date 2022-12-27 23:44
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-152.VOC05-221219-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
1,2-Dichlorobenzene	ND	0.0714	0.0616	ND	0.429	0.370	
1,2,4-Trichlorobenzene	ND	0.0702	0.0616	ND	0.520	0.457	
Hexachlorobutadiene	ND	0.0696	0.0616	ND	0.742	0.657	
Naphthalene	12.5	0.0709	0.0616	65.3	0.372	0.323	
1-Bromopropane	ND	0.0699	0.0616	ND	0.351	0.310	
1-Octene	ND	0.0695	0.0616	ND	0.319	0.283	
n-Octane	ND	0.0726	0.0616	ND	0.339	0.288	
Isopropylbenzene	ND	0.0716	0.0616	ND	0.352	0.303	
n-Propylbenzene	ND	0.0723	0.0616	ND	0.355	0.303	

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	801,396	11.04	5.21	pass
1,4-Difluorobenzene (IS)	2,999,859	12.47	5.16	pass
Chlorobenzene-d5 (IS)	2,696,007	16.60	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.: 1022-152-1 EPA Method TO-15 Analysis -- Runs

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

Sample Name VOC05-221219-S
Sample Info. 1022-152; *10=50mL Load; Can #1711
Sampling Date 2022-12-19 10:15
Received Date 2022-12-22 00:00
Sample Type Sample
Batch Xavier_X122722B.v2
Data File X2202800.D
Dilution 10.000
Pressurization Factor 1.761
Acquisition Date 2022-12-28 07:57
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-152.VOC05-221219-S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Benzene	77.4	0.709	0.616	247	2.26	1.97	

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
1,4-Difluorobenzene (IS)	2,807,549	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. 1022-152
 Company All4, Inc.
 Site U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Can Number	000020	000092	0704	0779	1579	1711
Job	1022-152	1022-152	1022-152	1022-152	1022-152	1022-152
Sample ID	VOC03-221219-D	VOC03-221219-S	VOC04-221219-S	VOC01-221219-S	VOC02-221219-S	VOC05-221219-S
CleanDate	08/09/2022	08/16/2022	08/09/2022	08/15/2022	08/10/2022	10/19/2022
LeakCheckDate	08/11/2022	08/19/2022	08/11/2022	08/12/2022	08/11/2022	10/20/2022
LeakCheckAnalyst	aamears	aamears	aamears	aamears	aamears	aamears
BlankCheckRef	X2201565	X2201665	X2201561	X2201649	X2201571	Y2203931
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)	67.9	67.9	67.9	67.9	67.9	67.9
Evac Pbar (mmHg)	767.8	767.8	767.8	767.8	767.8	767.8
Evac Gauge (mmHg)	-767.8	-767.8	-767.8	-767.8	-767.8	-767.8
Evac Analyst	aamears	aamears	aamears	aamears	aamears	aamears
Evac Time	12/30/22 15:32	12/30/22 15:31	12/30/22 15:29	12/30/22 15:25	12/30/22 15:28	12/30/22 15:33
Evac Vol (L)	0.000	0.000	0.000	0.000	0.000	0.000
Recd. Temp (F)	69.9	69.9	69.9	69.9	69.9	69.9
Recd. Pbar (mmHg)	749.8	749.8	749.8	749.8	749.8	749.8
Recd. Gauge (mmHg)	-74.0	57.0	-6.0	8.0	-106.0	-81.0
Recd Vol (L)	5.316	6.347	5.851	5.961	5.064	5.261
P1 Temp (F)	69.9	69.9	69.9	69.9	69.9	69.9
P1 Pbar (mmHg)	749.8	749.8	749.8	749.8	749.8	749.8
P1 Gauge (mmHg)	440.0	667.0	557.0	586.0	378.0	428.0
P1 Analyst	aamears	aamears	aamears	aamears	aamears	aamears
P1 Time	12/30/22 15:32	12/30/22 15:31	12/30/22 15:29	12/30/22 15:26	12/30/22 15:28	12/30/22 15:34
P1 Vol (L)	9.360	11.145	10.280	10.508	8.872	9.265
P1 DF Override	false	false	false	false	false	false
P1 Dilution Factor	1.761	1.756	1.757	1.763	1.752	1.761

Lab QC

Enthalpy Analytical

Job No.: 1022-152-1 EPA Method TO-15 Analysis -- Runs
 All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 1022-152.VOC04-221219-S.LD
 Sample Info. 1022-152; 500mL Load; Can #0704
 Sampling Date 2022-12-19 09:46
 Received Date 2022-12-22 00:00
 Sample Type LabDup
 Batch Xavier_X122722B.v2
 Data File X2202790.D
 Dilution 1.000
 Pressurization Factor 1.757
 Acquisition Date 2022-12-27 22:49
 Instrument Method TO15_SCNV6.M
 Matrix Air
 Enthalpy ID 1022-152.VOC04-221219-S.LD

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Dup Diff (%)	Flags
Propylene	0.681	0.0679	0.0615	1.17	0.117	0.106	3.9	pass
Freon 12 (CCl2F2)	0.427	0.0688	0.0615	2.11	0.340	0.304	0.7	pass
Freon 114 (C2Cl2F4)	ND	0.704	0.0615	ND	4.92	0.430		
Chloromethane	0.566	0.0695	0.0615	1.17	0.143	0.127	3.7	pass
Chloroethene (Vinyl chloride)	ND	0.0702	0.0615	ND	0.179	0.157		
1,3-Butadiene	ND	0.0684	0.0615	ND	0.151	0.136		
Bromomethane	ND	0.0689	0.0615	ND	0.268	0.239		
Chloroethane	ND	0.0714	0.0615	ND	0.188	0.162		
Bromoethene (Vinyl bromide)	ND	0.0687	0.0615	ND	0.300	0.269		
Freon 11 (CCl3F)	0.218	0.0741	0.0615	1.22	0.416	0.345	4.8	pass
Ethanol	0.908	0.0696	0.0703	1.71	0.131	0.132	3.0	pass
Acrolein	0.0712	0.0692	0.0615	0.163	0.159	0.141	11.0	pass, m
Freon 113 (C2Cl3F3)	0.0730	0.0713	0.0615	0.559	0.546	0.471	4.0	pass
1,1-Dichloroethene	ND	0.0707	0.0615	ND	0.280	0.244		
Acetone	0.670	0.0704	0.0615	1.59	0.167	0.146	4.1	pass
Carbon disulfide	ND	0.0701	0.0615	ND	0.218	0.191		
Isopropyl alcohol	0.0963	0.0701	0.0615	0.237	0.172	0.151	24.3	pass, m
Allyl chloride (3-chloropropene)	ND	0.0759	0.0615	ND	0.237	0.192		
Acetonitrile	0.0862	0.0701	0.0615	0.145	0.118	0.103	17.0	pass
Methylene chloride	0.123	0.0720	0.0615	0.426	0.250	0.213	9.2	pass
trans-1,2-Dichloroethene	ND	0.0717	0.0615	ND	0.284	0.244		
Methyl tert-butyl ether	ND	0.0722	0.0615	ND	0.260	0.222		
Acrylonitrile	ND	0.0715	0.0615	ND	0.155	0.133		
Hexane	0.0748	0.0714	0.0615	0.263	0.252	0.217	8.9	pass
1,1-Dichloroethane	ND	0.0698	0.0615	ND	0.282	0.249		
Vinyl acetate	ND	0.0719	0.0615	ND	0.253	0.216		
cis-1,2-Dichloroethene	ND	0.0710	0.0615	ND	0.281	0.244		
Methyl ethyl ketone (2-Butanone)	0.120	0.0727	0.0615	0.354	0.214	0.181	17.8	pass
Ethyl acetate	ND	0.0701	0.0615	ND	0.253	0.221		
Chloroform	ND	0.0705	0.0615	ND	0.344	0.300		
Tetrahydrofuran	ND	0.0711	0.0615	ND	0.210	0.181		
1,1,1-Trichloroethane	ND	0.0710	0.0615	ND	0.387	0.335		
Cyclohexane	ND	0.0720	0.0615	ND	0.248	0.212		
Carbon tetrachloride	0.0828	0.0708	0.0615	0.520	0.445	0.387	4.9	pass
Benzene	2.04	0.0707	0.0615	6.52	0.226	0.196	2.8	pass
2,2,4-trimethylpentane	ND	0.0727	0.0615	ND	0.339	0.287		

Enthalpy Analytical

Job No.: 1022-152-1 EPA Method TO-15 Analysis -- Runs
 All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 1022-152.VOC04-221219-S.LD
 Sample Info. 1022-152; 500mL Load; Can #0704
 Sampling Date 2022-12-19 09:46
 Received Date 2022-12-22 00:00
 Sample Type LabDup
 Batch Xavier_X122722B.v2
 Data File X2202790.D
 Dilution 1.000
 Pressurization Factor 1.757
 Acquisition Date 2022-12-27 22:49
 Instrument Method TO15_SCNV6.M
 Matrix Air
 Enthalpy ID 1022-152.VOC04-221219-S.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	0.0723	0.0615	ND	0.293	0.249		
Heptane	ND	0.0712	0.0615	ND	0.292	0.252		
Trichloroethene	ND	0.0710	0.0615	ND	0.382	0.330		
1,2-Dichloropropane	ND	0.0708	0.0615	ND	0.327	0.284		
Methyl methacrylate	ND	0.0736	0.0615	ND	0.301	0.252		
1,4-Dioxane	ND	0.0705	0.0615	ND	0.254	0.221		
Bromodichloromethane	ND	0.0710	0.0615	ND	0.475	0.412		
cis-1,3-Dichloropropene	ND	0.0698	0.0615	ND	0.317	0.279		
Methyl isobutyl ketone	ND	0.0730	0.0615	ND	0.299	0.252		
Toluene	0.503	0.0715	0.0615	1.90	0.269	0.232	3.3	pass
trans-1,3-Dichloropropene	ND	0.0725	0.0615	ND	0.329	0.279		
1,1,2-Trichloroethane	ND	0.0715	0.0615	ND	0.390	0.335		
Tetrachloroethene	ND	0.0719	0.0615	ND	0.487	0.417		
2-Hexanone (Methyl butyl ketone)	ND	0.0719	0.0615	ND	0.294	0.252		
Dibromochloromethane	ND	0.0708	0.0615	ND	0.603	0.523		
1,2-Dibromoethane	ND	0.0719	0.0615	ND	0.552	0.472		
Chlorobenzene	ND	0.0724	0.0615	ND	0.333	0.283		
Ethylbenzene	ND	0.0698	0.0615	ND	0.303	0.267		
1,1,1,2-Tetrachloroethane	ND	0.0708	0.0615	ND	0.486	0.422		
m-/p-Xylenes	ND	0.0713	0.0615	ND	0.309	0.267		
o-Xylene	ND	0.0704	0.0615	ND	0.306	0.267		
Styrene	ND	0.0689	0.0615	ND	0.293	0.262		
Bromoform	ND	0.0705	0.0615	ND	0.728	0.635		
1,1,2,2-Tetrachloroethane	ND	0.0710	0.0615	ND	0.487	0.422		
4-Ethyltoluene	ND	0.0715	0.0615	ND	0.351	0.302		
2-Chlorotoluene	ND	0.0709	0.0615	ND	0.367	0.318		
1,3,5-Trimethylbenzene	ND	0.0713	0.0615	ND	0.350	0.302		
1,2,4-Trimethylbenzene	ND	0.0703	0.0615	ND	0.346	0.302		
1,3-Dichlorobenzene	ND	0.0714	0.0615	ND	0.429	0.369		
1,4-Dichlorobenzene	ND	0.0706	0.0615	ND	0.424	0.369		
Benzyl chloride	ND	0.0707	0.0615	ND	0.366	0.318		
1,2-Dichlorobenzene	ND	0.0712	0.0615	ND	0.428	0.369		
1,2,4-Trichlorobenzene	ND	0.0700	0.0615	ND	0.519	0.456		
Hexachlorobutadiene	ND	0.0694	0.0615	ND	0.740	0.655		
Naphthalene	ND	0.0708	0.0615	ND	0.371	0.322		
1-Bromopropane	ND	0.0697	0.0615	ND	0.350	0.309		

Enthalpy Analytical

Job No.: 1022-152-1 EPA Method TO-15 Analysis -- Runs

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

Sample Name 1022-152.VOC04-221219-S.LD
Sample Info. 1022-152; 500mL Load; Can #0704
Sampling Date 2022-12-19 09:46
Received Date 2022-12-22 00:00
Sample Type LabDup
Batch Xavier_X122722B.v2
Data File X2202790.D
Dilution 1.000
Pressurization Factor 1.757
Acquisition Date 2022-12-27 22:49
Instrument Method TO15_SCNV6.M
Matrix Air
Enthalpy ID 1022-152.VOC04-221219-S.LD

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Dup Diff (%)	Flags
1-Octene	ND	0.0694	0.0615	ND	0.318	0.282		
n-Octane	ND	0.0724	0.0615	ND	0.338	0.287		
Isopropylbenzene	ND	0.0714	0.0615	ND	0.351	0.302		
n-Propylbenzene	ND	0.0721	0.0615	ND	0.354	0.302		

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	805,859	11.04	5.21	pass
1,4-Difluorobenzene (IS)	3,023,993	12.47	5.16	pass
Chlorobenzene-d5 (IS)	2,687,459	16.60	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.: 1022-152-1 EPA Method TO-15 Analysis -- Runs

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

Sample Name Humid Blank #0702
Sample Info. 500mL Load; Can #0702
Sample Type Blank
Batch Xavier_X122722B.v2
Data File X2202780.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2022-12-27 14:06
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID Humid Blank #0702

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	0.0636	0.0396	0.0400	0.120	0.0746	0.0753	pass
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	0.0726	0.0401	0.0350	0.172	0.0951	0.0831	pass
Carbon disulfide	ND	0.0399	0.0350	ND	0.124	0.109	pass
Isopropyl alcohol	ND	0.0399	0.0350	ND	0.0980	0.0860	pass
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.: 1022-152-1 EPA Method TO-15 Analysis -- Runs

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

Sample Name Humid Blank #0702
 Sample Info. 500mL Load; Can #0702
 Sample Type Blank
 Batch Xavier_X122722B.v2
 Data File X2202780.D
 Dilution 1.000
 Pressurization Factor 1.000
 Acquisition Date 2022-12-27 14:06
 Instrument Method TO15_SCNV6.M
 Matrix Air
 Analyst TDD
 Instrument Xavier
 Enthalpy ID Humid Blank #0702

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.: 1022-152-1 EPA Method TO-15 Analysis -- Runs

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

Sample Name Humid Blank #0702
Sample Info. 500mL Load; Can #0702
Sample Type Blank
Batch Xavier_X122722B.v2
Data File X2202780.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2022-12-27 14:06
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID Humid Blank #0702

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)	916,078	11.04	5.21	pass
1,4-Difluorobenzene (IS)	3,315,409	12.47	5.16	pass
Chlorobenzene-d5 (IS)	3,036,647	16.60	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.: 1022-152-1 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 #2117; GCMSPrepPg1196; MP1
Sample Type QC
Batch Xavier_X122722B.v2
Data File X2202777.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2022-12-27 11:30
Instrument Method TO15_SCNV6.M
Matrix Air
Enthalpy ID 5ppbv TO15 LCS

Target Compound	Response	Concentration (ppbv)	Expected Conc (ppbv)	Recovery (%)	Flags
Propylene	766,016	5.10	4.83	105.7	pass
Freon 12 (CCl2F2)	2,031,235	4.68	4.90	95.7	pass
Freon 114 (C2Cl2F4)	2,205,312	4.92	5.01	98.2	pass
Chloromethane	802,726	5.14	4.95	104.0	pass
Chloroethene (Vinyl chloride)	445,687	4.84	5.00	96.8	pass, m
1,3-Butadiene	784,251	5.05	4.87	103.8	pass
Bromomethane	446,807	4.48	4.91	91.4	pass, m
Chloroethane	352,218	4.76	5.08	93.7	pass
Bromoethene (Vinyl bromide)	823,545	4.63	4.89	94.6	pass
Freon 11 (CCl3F)	2,256,952	5.23	5.28	99.1	pass
Ethanol	351,044	4.03	4.96	81.4	pass
Acrolein	279,457	4.56	4.93	92.5	pass
Freon 113 (C2Cl3F3)	1,506,890	4.83	5.08	95.2	pass
1,1-Dichloroethene	1,291,472	4.64	5.03	92.2	pass
Acetone	1,552,195	4.84	5.01	96.7	pass
Carbon disulfide	2,113,418	4.83	4.99	96.8	pass
Isopropyl alcohol	1,589,363	4.84	4.99	97.1	pass
Allyl chloride (3-chloropropene)	296,616	4.73	5.04	93.9	pass
Acetonitrile	802,197	5.44	4.99	109.1	pass
Methylene chloride	1,177,923	4.95	5.12	96.6	pass
trans-1,2-Dichloroethene	1,107,102	4.87	5.10	95.5	pass
Methyl tert-butyl ether	1,873,601	4.88	5.14	95.0	pass
Acrylonitrile	625,394	5.18	5.09	101.7	pass
Hexane	1,174,060	5.10	5.08	100.4	pass
1,1-Dichloroethane	1,336,251	4.84	4.97	97.4	pass
Vinyl acetate	1,914,761	4.26	5.12	83.3	pass
cis-1,2-Dichloroethene	1,302,939	5.20	5.05	102.9	pass
Methyl ethyl ketone (2-Butanone)	339,028	4.92	5.17	95.1	pass
Ethyl acetate	348,534	5.22	4.99	104.6	pass
Chloroform	1,663,567	5.09	5.02	101.5	pass
Tetrahydrofuran	312,385	4.87	5.06	96.3	pass, m
1,1,1-Trichloroethane	1,647,956	4.88	5.05	96.6	pass
Cyclohexane	1,243,096	5.31	5.13	103.7	pass
Carbon tetrachloride	1,918,218	5.06	5.04	100.5	pass
Benzene	2,139,077	4.92	5.03	97.8	pass
2,2,4-trimethylpentane	3,992,314	5.22	5.17	101.0	pass

Enthalpy Analytical

Job No.: 1022-152-1 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 #2117; GCMSPrepPg1196; MP1
Sample Type QC
Batch Xavier_X122722B.v2
Data File X2202777.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2022-12-27 11:30
Instrument Method TO15_SCNV6.M
Matrix Air
Enthalpy ID 5ppbv TO15 LCS

Target Compound	Response	Concentration (ppbv)	Expected Conc (ppbv)	Recovery (%)	Flags
1,2-Dichloroethane	1,088,135	4.67	5.15	90.7	pass
Heptane	759,913	4.98	5.07	98.4	pass
Trichloroethene	1,252,374	4.88	5.06	96.4	pass
1,2-Dichloropropane	897,939	4.96	5.04	98.5	pass
Methyl methacrylate	754,794	4.96	5.24	94.8	pass
1,4-Dioxane	482,266	4.81	5.02	95.9	pass
Bromodichloromethane	1,746,029	4.97	5.05	98.3	pass
cis-1,3-Dichloropropene	1,172,954	4.46	4.97	89.8	pass
Methyl isobutyl ketone	2,622,418	5.42	5.20	104.4	pass
Toluene	2,997,204	4.69	5.09	92.1	pass
trans-1,3-Dichloropropene	1,240,687	4.27	5.16	82.8	pass
1,1,2-Trichloroethane	1,013,619	4.51	5.09	88.7	pass
Tetrachloroethene	1,713,278	4.62	5.12	90.3	pass
2-Hexanone (Methyl butyl ketone)	2,440,201	4.95	5.12	96.7	pass
Dibromochloromethane	2,320,538	4.92	5.04	97.6	pass
1,2-Dibromoethane	1,847,352	4.67	5.12	91.2	pass
Chlorobenzene	2,641,508	4.71	5.15	91.5	pass
Ethylbenzene	3,834,047	4.60	4.97	92.6	pass
1,1,1,2-Tetrachloroethane	1,545,725	4.68	5.04	92.8	pass
m-/p-Xylenes	2,897,805	4.60	5.07	90.7	pass
o-Xylene	2,972,543	4.52	5.01	90.3	pass
Styrene	2,466,925	4.78	4.90	97.5	pass
Bromoform	2,530,919	5.13	5.02	102.3	pass
1,1,2,2-Tetrachloroethane	2,410,356	4.81	5.06	95.2	pass
4-Ethyltoluene	4,820,591	5.11	5.09	100.4	pass, m
2-Chlorotoluene	3,739,749	4.79	5.05	95.0	pass
1,3,5-Trimethylbenzene	3,895,964	4.97	5.07	98.0	pass
1,2,4-Trimethylbenzene	3,886,030	4.86	5.01	97.1	pass
1,3-Dichlorobenzene	3,277,641	5.05	5.08	99.4	pass
1,4-Dichlorobenzene	3,309,352	5.01	5.03	99.6	pass, m
Benzyl chloride	3,551,199	5.11	5.03	101.5	pass
1,2-Dichlorobenzene	3,166,577	5.07	5.07	100.0	pass
1,2,4-Trichlorobenzene	2,984,825	5.52	4.98	110.9	pass
Hexachlorobutadiene	2,587,160	5.50	4.94	111.4	pass
Naphthalene	7,357,505	5.95	5.04	118.1	pass
1-Bromopropane	1,789,008	5.30	4.96	106.8	pass

Enthalpy Analytical

Job No.: 1022-152-1 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 #2117; GCMSPrepPg1196; MP1
Sample Type QC
Batch Xavier_X122722B.v2
Data File X2202777.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2022-12-27 11:30
Instrument Method TO15_SCNV6.M
Matrix Air
Enthalpy ID 5ppbv TO15 LCS

Target Compound	Response	Concentration (ppbv)	Expected Conc (ppbv)	Recovery (%)	Flags
1-Octene	581,409	4.44	4.94	90.0	pass
n-Octane	750,520	4.32	5.02	86.2	pass
Isopropylbenzene	4,681,401	4.91	5.08	96.6	pass
n-Propylbenzene	5,380,188	5.02	5.13	97.8	pass

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	941,955	11.04	5.21	pass
1,4-Difluorobenzene (IS)	3,474,120	12.47	5.16	pass
Chlorobenzene-d5 (IS)	3,204,109	16.60	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.: 1022-152-1 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 #2117; GCMSPrepPg1196; MP1
Sample Type QcDup
Batch Xavier_X122722B.v2
Data File X2202778.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2022-12-27 12:17
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
Propylene	777,216	5.28	4.83	5.10	109.4%	3.5	pass
Freon 12 (CCl2F2)	2,039,650	4.80	4.90	4.68	98.0%	2.4	pass
Freon 114 (C2Cl2F4)	2,201,121	5.01	5.01	4.92	100.0%	1.8	pass
Chloromethane	815,721	5.33	4.95	5.14	107.8%	3.6	pass
Chloroethene (Vinyl chloride)	442,248	4.90	5.00	4.84	98.1%	1.3	pass, m
1,3-Butadiene	800,129	5.26	4.87	5.05	108.1%	4.0	pass
Bromomethane	454,382	4.65	4.91	4.48	94.9%	3.7	pass
Chloroethane	358,093	4.94	5.08	4.76	97.2%	3.7	pass
Bromoethene (Vinyl bromide)	822,593	4.72	4.89	4.63	96.4%	1.9	pass
Freon 11 (CCl3F)	2,253,641	5.32	5.28	5.23	100.9%	1.9	pass
Ethanol	361,755	4.24	4.96	4.03	85.6%	5.0	pass
Acrolein	276,713	4.60	4.93	4.56	93.5%	1.0	pass
Freon 113 (C2Cl3F3)	1,543,688	5.05	5.08	4.83	99.5%	4.4	pass
1,1-Dichloroethene	1,294,441	4.74	5.03	4.64	94.3%	2.3	pass
Acetone	1,587,796	5.06	5.01	4.84	100.9%	4.3	pass
Carbon disulfide	2,127,756	4.96	4.99	4.83	99.4%	2.7	pass
Isopropyl alcohol	1,600,703	4.97	4.99	4.84	99.8%	2.7	pass
Allyl chloride (3-chloropropene)	305,894	4.98	5.04	4.73	98.8%	5.1	pass
Acetonitrile	817,744	5.66	4.99	5.44	113.5%	3.9	pass
Methylene chloride	1,184,886	5.08	5.12	4.95	99.2%	2.6	pass
trans-1,2-Dichloroethene	1,106,220	4.97	5.10	4.87	97.4%	1.9	pass
Methyl tert-butyl ether	1,860,590	4.95	5.14	4.88	96.3%	1.3	pass
Acrylonitrile	613,501	5.18	5.09	5.18	101.8%	0.1	pass
Hexane	1,180,380	5.23	5.08	5.10	103.0%	2.6	pass
1,1-Dichloroethane	1,331,181	4.92	4.97	4.84	99.1%	1.6	pass
Vinyl acetate	1,913,336	4.34	5.12	4.26	84.9%	2.0	pass
cis-1,2-Dichloroethene	1,307,823	5.32	5.05	5.20	105.4%	2.4	pass
Methyl ethyl ketone (2-Butanone)	327,182	4.84	5.17	4.92	93.7%	1.5	pass
Ethyl acetate	347,550	5.31	4.99	5.22	106.4%	1.7	pass
Chloroform	1,657,922	5.17	5.02	5.09	103.2%	1.7	pass
Tetrahydrofuran	321,883	5.12	5.06	4.87	101.2%	5.0	pass, m
1,1,1-Trichloroethane	1,665,369	5.03	5.05	4.88	99.6%	3.1	pass
Cyclohexane	1,249,214	5.45	5.13	5.31	106.3%	2.5	pass
Carbon tetrachloride	1,959,371	5.27	5.04	5.06	104.8%	4.1	pass
Benzene	2,105,219	4.98	5.03	4.92	99.0%	1.2	pass
2,2,4-trimethylpentane	4,021,014	5.41	5.17	5.22	104.6%	3.5	pass

Enthalpy Analytical

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 Sample Type QcDup
 Batch Xavier_X122722B.v2
 Data File X2202778.D
 Dilution 1.000
 Pressurization Factor 1.000
 Acquisition Date 2022-12-27 12:17
 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
1,2-Dichloroethane	1,086,371	4.79	5.15	4.67	93.1%	2.6	pass
Heptane	759,306	5.12	5.07	4.98	101.0%	2.7	pass
Trichloroethene	1,246,767	4.99	5.06	4.88	98.7%	2.3	pass
1,2-Dichloropropane	900,883	5.12	5.04	4.96	101.6%	3.1	pass
Methyl methacrylate	776,104	5.25	5.24	4.96	100.2%	5.6	pass
1,4-Dioxane	482,701	4.95	5.02	4.81	98.7%	2.9	pass
Bromodichloromethane	1,735,810	5.08	5.05	4.97	100.5%	2.2	pass
cis-1,3-Dichloropropene	1,201,935	4.70	4.97	4.46	94.6%	5.2	pass
Methyl isobutyl ketone	2,617,012	5.57	5.20	5.42	107.1%	2.6	pass
Toluene	3,014,061	4.84	5.09	4.69	95.2%	3.3	pass
trans-1,3-Dichloropropene	1,258,869	4.45	5.16	4.27	86.3%	4.2	pass
1,1,2-Trichloroethane	1,019,559	4.66	5.09	4.51	91.7%	3.3	pass
Tetrachloroethene	1,746,576	4.84	5.12	4.62	94.6%	4.7	pass
2-Hexanone (Methyl butyl ketone)	2,432,905	5.07	5.12	4.95	99.1%	2.4	pass
Dibromochloromethane	2,370,485	5.16	5.04	4.92	102.5%	4.9	pass
1,2-Dibromoethane	1,888,230	4.90	5.12	4.67	95.9%	4.9	pass
Chlorobenzene	2,656,641	4.87	5.15	4.71	94.6%	3.3	pass
Ethylbenzene	3,875,770	4.78	4.97	4.60	96.2%	3.8	pass
1,1,1,2-Tetrachloroethane	1,535,160	4.77	5.04	4.68	94.7%	2.1	pass
m-/p-Xylenes	2,891,514	4.71	5.07	4.60	93.0%	2.5	pass
o-Xylene	3,033,021	4.74	5.01	4.52	94.7%	4.8	pass
Styrene	2,479,412	4.94	4.90	4.78	100.7%	3.2	pass
Bromoform	2,545,261	5.30	5.02	5.13	105.8%	3.3	pass
1,1,2,2-Tetrachloroethane	2,438,453	5.00	5.06	4.81	98.9%	3.9	pass
4-Ethyltoluene	4,873,046	5.31	5.09	5.11	104.3%	3.8	pass, m
2-Chlorotoluene	3,768,459	4.96	5.05	4.79	98.4%	3.5	pass
1,3,5-Trimethylbenzene	3,923,411	5.14	5.07	4.97	101.4%	3.4	pass
1,2,4-Trimethylbenzene	3,939,513	5.06	5.01	4.86	101.2%	4.1	pass
1,3-Dichlorobenzene	3,278,250	5.19	5.08	5.05	102.2%	2.8	pass
1,4-Dichlorobenzene	3,351,210	5.21	5.03	5.01	103.7%	4.0	pass, m
Benzyl chloride	3,601,923	5.32	5.03	5.11	105.8%	4.2	pass
1,2-Dichlorobenzene	3,216,238	5.29	5.07	5.07	104.4%	4.3	pass
1,2,4-Trichlorobenzene	3,051,977	5.81	4.98	5.52	116.6%	5.0	pass
Hexachlorobutadiene	2,605,134	5.69	4.94	5.50	115.3%	3.4	pass
Naphthalene	7,520,931	6.25	5.04	5.95	124.1%	4.9	pass
1-Bromopropane	1,758,177	5.31	4.96	5.30	107.1%	0.3	pass

Enthalpy Analytical

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Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2022-12-27 12:17
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
1-Octene	589,050	4.63	4.94	4.44	93.7%	4.0	pass
n-Octane	767,874	4.55	5.02	4.32	90.6%	5.0	pass
Isopropylbenzene	4,710,264	5.07	5.08	4.91	99.9%	3.4	pass
n-Propylbenzene	5,363,334	5.14	5.13	5.02	100.2%	2.4	pass

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	923,071	11.04	5.21	pass
1,4-Difluorobenzene (IS)	3,378,929	12.47	5.16	pass
Chlorobenzene-d5 (IS)	3,117,445	16.60	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%

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 #	1022-152
# Samples	6 Canisters

Custody

Matt Loftis received the samples on 12/22/22 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. Sample **VOC05_221219_S** was analyzed at a subsequent 10-fold analytical dilution to bring benzene within the instrument's calibrated range. Dilution factors are located 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 the 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 blank 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 from the retrieval date requested in the ICR protocol.

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				Turn Around Time (rush by advanced notice only)																																																																																																																													
	Lab No: _____ Page: <u>1</u> of <u>1</u>				Standard:		5 Day:		3 Day:																																																																																																																									
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Enthalpy Analytical - Durham 800 Capitola Drive, Suite 1, Durham, NC 27713 Phone 919-850-4392				CUSTOMER INFORMATION				PROJECT 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				Name: U. S. Steel Corp - Clairton Works Number: 00701-0002.00 P.O. #: _____ Address: Clairton, PA Global ID: N/A Sampled By: _____																																																																																																																										
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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 - 221219 - S	A	0779	6L	SB1538	22/12/19	10:07	29.5	22/12/20	10:07	0	X																																																																																																																						
2	VOC02 - 221219 - S	A	1579	6L	SB15647	22/12/19	10:00	30	22/12/20	10:00	7	X																																																																																																																						
3	VOC03 - 221219 - S	A	000092	6L	SB01803	22/12/19	9:55	30	22/12/20	9:53	0	X																																																																																																																						
4	VOC03 - 221219 - D	A	000020	6L	SB15977	22/12/19	9:55	29	22/12/20	9:54	5.5	X																																																																																																																						
5	VOC04 - 221219 - S	A	0704	6L	SB01722	22/12/19	9:46	30	22/12/20	9:46	5	X																																																																																																																						
6	VOC05 - 221219 - S	A	1711	6L	SB11938	22/12/19	10:15	28.5	22/12/20	10:15	5	X																																																																																																																						
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