

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
 Data File : VX045020.D
 Acq On : 21 Feb 2025 16:05
 Operator : JC/MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDC0020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/24/2025
 Supervised By : Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 01:17:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 22 01:06:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.891	128	17711	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	94187	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	87286	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	49349	28.688	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.633%		
60) 4-Bromofluorobenzene	11.079	95	47785	29.289	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.633%		
63) Toluene-d8	8.640	98	142693	29.550	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.500%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	27187	18.209	ug/l	95
3) Chloromethane	1.294	50	33243	18.590	ug/l	100
4) Vinyl Chloride	1.367	62	31148	18.051	ug/l	97
5) Bromomethane	1.593	94	11846	19.722	ug/l	95
6) Chloroethane	1.672	64	17601	18.833	ug/l	96
7) Trichlorofluoromethane	1.879	101	43222	18.637	ug/l	95
8) Diethyl Ether	2.129	74	15750	17.949	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.324	101	26114	18.959	ug/l	99
10) 1,1-Dichloroethene	2.312	96	25031	18.605	ug/l	92
11) Methyl Iodide	2.446	142	25869	16.988	ug/l	99
12) Methyl Acetate	2.696	43	30538	19.546	ug/l	97
13) Acrolein	2.233	56	34725	110.886	ug/l	100
14) Acrylonitrile	3.056	53	75366	98.758	ug/l	100
15) Acetone	2.373	58	20243	96.719	ug/l	96
16) Carbon Disulfide	2.507	76	68225	17.878	ug/l	100
17) Allyl chloride	2.660	41	44963	17.868	ug/l	97
18) Methylene Chloride	2.782	84	28321	18.715	ug/l	95
19) trans-1,2-Dichloroethene	3.086	96	25223	18.530	ug/l	96
20) Diisopropyl ether	3.751	45	89916	18.594	ug/l	99
21) 1,1-Dichloroethane	3.599	63	49184	18.289	ug/l	98
22) cis-1,2-Dichloroethene	4.476	96	30524	18.713	ug/l	98
23) tert-Butyl Alcohol	2.958	59	25564	95.956	ug/l #	100
24) Methyl tert-Butyl Ether	3.105	73	80579	18.350	ug/l	100
25) Chloroform	5.086	83	48444	18.649	ug/l	100
26) Cyclohexane	5.458	56	46812	18.858	ug/l #	99
29) 1,1-Dichloropropene	5.684	75	33941	19.590	ug/l	97
30) 2-Butanone	4.550	43	102349	102.274	ug/l	99
31) 2,2-Dichloropropane	4.464	77	37190	18.983	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	40855	19.462	ug/l	98
33) Carbon Tetrachloride	5.665	117	34550	19.501	ug/l	94
34) Benzene	6.031	78	105827	19.477	ug/l	97
35) Methacrylonitrile	4.915	41	21320	19.909	ug/l	94
36) 1,2-Dichloroethane	6.080	62	36009	19.358	ug/l	100
37) Trichloroethene	7.122	130	24214	19.049	ug/l	100
38) Methylcyclohexane	7.372	83	46299	19.902	ug/l	98
39) 1,2-Dichloropropane	7.421	63	27019	20.002	ug/l	97
40) Dibromomethane	7.573	93	18946	19.545	ug/l	99
41) Bromodichloromethane	7.817	83	36969	19.189	ug/l	98
42) Vinyl Acetate	3.714	43	376854	97.042	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
 Data File : VX045020.D
 Acq On : 21 Feb 2025 16:05
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/24/2025
 Supervised By : Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 01:17:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 22 01:06:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	38620	20.579	ug/l	97
44) Isopropyl Acetate	6.336	43	60076	19.450	ug/l	98
45) 1,4-Dioxane	7.653	88	13586	423.114	ug/l	99
46) Methyl methacrylate	7.689	41	30164	19.916	ug/l	97
47) n-amyl Acetate	10.841	43	52809	19.702	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	32723	17.622	ug/l	98
49) cis-1,3-Dichloropropene	8.360	75	39155	18.626	ug/l	98
50) 1,1,2-Trichloroethane	9.146	97	24719	19.550	ug/l	97
51) Ethyl methacrylate	9.110	69	37906	19.062	ug/l	97
52) 1,3-Dichloropropane	9.305	76	43968	19.846	ug/l	98
53) Dibromochloromethane	9.518	129	26369	18.857	ug/l	98
54) 1,2-Dibromoethane	9.604	107	25176	19.609	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	92236	90.325	ug/l	100
56) Bromoform	10.799	173	17024	19.428	ug/l	97
58) 4-Methyl-2-Pentanone	8.567	43	205410	103.451	ug/l	99
59) 2-Hexanone	9.427	43	149416	104.109	ug/l	100
61) Tetrachloroethene	9.268	164	21362	19.875	ug/l	99
62) Toluene	8.714	91	111676	19.314	ug/l	97
64) Chlorobenzene	10.073	112	68885	19.225	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.158	131	22456	18.994	ug/l	98
66) Ethyl Benzene	10.189	91	121480	19.190	ug/l	98
67) m/p-Xylenes	10.299	106	92945	39.407	ug/l	100
68) o-Xylene	10.640	106	45460	19.644	ug/l	99
69) Styrene	10.652	104	74652	19.315	ug/l	99
70) Isopropylbenzene	10.957	105	117436	19.665	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	40272	20.508	ug/l	99
72) 1,2,3-Trichloropropane	11.237	75	32215m	19.945	ug/l	
73) Bromobenzene	11.195	156	26789	19.486	ug/l	97
74) n-propylbenzene	11.298	91	136602	19.222	ug/l	100
75) 2-Chlorotoluene	11.359	91	82880	19.291	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	96574	19.602	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	8818	16.227	ug/l	93
78) 4-Chlorotoluene	11.451	91	90813	18.962	ug/l	99
79) tert-butylbenzene	11.713	119	98363	19.815	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	95918	19.436	ug/l	98
81) sec-Butylbenzene	11.890	105	122818	19.714	ug/l	99
82) p-Isopropyltoluene	12.006	119	100814	19.972	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	49731	19.442	ug/l	98
84) 1,4-Dichlorobenzene	12.036	146	48106	19.074	ug/l	99
85) n-Butylbenzene	12.329	91	87637	19.012	ug/l	99
86) Hexachloroethane	12.536	117	16521	18.558	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	51400	20.480	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.938	75	7193	18.918	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	28677	18.853	ug/l	99
90) Hexachlorobutadiene	13.725	225	12493	20.139	ug/l	96
91) Naphthalene	13.774	128	104363	19.458	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	29745	18.994	ug/l	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
Data File : VX045020.D
Acq On : 21 Feb 2025 16:05
Operator : JC/MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020EC

Quant Time: Feb 22 01:17:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 01:06:36 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : John Carlone 02/24/2025
Supervised By : Mahesh Dadoda 02/24/2025

