

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121622\
 Data File : VX033452.D
 Acq On : 16 Dec 2022 11:20
 Operator : JC/MD
 Sample : VX1216WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1216WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/19/2022
 Supervised By : Mahesh Dadoda 12/19/2022

Quant Time: Dec 17 07:44:25 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X121222W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Dec 12 12:37:35 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	12688	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	88438	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	100022	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	34286	30.768	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 102.567%	
60) 4-Bromofluorobenzene	11.079	95	55071	29.728	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 99.100%	
63) Toluene-d8	8.647	98	98543	29.617	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 98.733%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	19184	20.703	ug/l	97
3) Chloromethane	1.294	50	19481	20.834	ug/l	96
4) Vinyl Chloride	1.374	62	22982	20.484	ug/l	98
5) Bromomethane	1.618	94	13545	16.509	ug/l	100
6) Chloroethane	1.691	64	14558	17.551	ug/l	94
7) Trichlorofluoromethane	1.892	101	34543	15.102	ug/l	95
8) Diethyl Ether	2.136	74	12097	16.935	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.331	101	19695	16.959	ug/l	98
10) 1,1-Dichloroethene	2.325	96	18175	16.622	ug/l	98
11) Methyl Iodide	2.453	142	26047	20.974	ug/l	97
12) Methyl Acetate	2.703	43	34215	22.190	ug/l	99
13) Acrolein	2.239	56	28314	116.073	ug/l	98
14) Acrylonitrile	3.068	53	61337	109.439	ug/l	98
15) Acetone	2.386	58	16433	85.299	ug/l	87
16) Carbon Disulfide	2.514	76	56992	19.347	ug/l	98
17) Allyl chloride	2.666	41	36790	20.499	ug/l	99
18) Methylene Chloride	2.788	84	26128	20.589	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	25818	20.269	ug/l	96
20) Diisopropyl ether	3.757	45	78848	20.877	ug/l	96
21) 1,1-Dichloroethane	3.611	63	46629	20.931	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	31162	21.075	ug/l	97
23) tert-Butyl Alcohol	2.995	59	22762m	95.172	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	81624	20.631	ug/l	98
25) Chloroform	5.093	83	53470	21.093	ug/l	96
26) Cyclohexane	5.470	56	40704	20.891	ug/l	# 99
29) 1,1-Dichloropropene	5.690	75	38371	21.467	ug/l	99
30) 2-Butanone	4.556	43	91041	108.960	ug/l	99
31) 2,2-Dichloropropane	4.477	77	36421	19.389	ug/l	98
32) 1,1,1-Trichloroethane	5.385	97	47761	20.699	ug/l	99
33) Carbon Tetrachloride	5.672	117	42506	20.146	ug/l	91
34) Benzene	6.037	78	106634	20.818	ug/l	99
35) Methacrylonitrile	4.922	41	18526	21.635	ug/l	91
36) 1,2-Dichloroethane	6.086	62	42326	21.497	ug/l	99
37) Trichloroethene	7.123	130	30505	20.973	ug/l	87
38) Methylcyclohexane	7.379	83	43401	20.607	ug/l	99
39) 1,2-Dichloropropane	7.427	63	27200	21.296	ug/l	98
40) Dibromomethane	7.580	93	19968	20.432	ug/l	99
41) Bromodichloromethane	7.824	83	40345	20.146	ug/l	99
42) Vinyl Acetate	3.721	43	308562	106.666	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121622\
 Data File : VX033452.D
 Acq On : 16 Dec 2022 11:20
 Operator : JC/MD
 Sample : VX1216WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1216WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/19/2022
 Supervised By : Mahesh Dadoda 12/19/2022

Quant Time: Dec 17 07:44:25 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X121222W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Dec 12 12:37:35 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	31671	21.081	ug/l	98
44) Isopropyl Acetate	6.336	43	52915	20.748	ug/l	99
45) 1,4-Dioxane	7.696	88	13676m	457.829	ug/l	
46) Methyl methacrylate	7.690	41	27295	21.486	ug/l	98
47) n-amyl Acetate	10.841	43	46297	21.631	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	39981	19.903	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	43179	20.027	ug/l	100
50) 1,1,2-Trichloroethane	9.153	97	29478	21.812	ug/l	99
51) Ethyl methacrylate	9.116	69	40791	21.124	ug/l	99
52) 1,3-Dichloropropane	9.311	76	47362	21.461	ug/l	99
53) Dibromochloromethane	9.519	129	31963	19.680	ug/l	97
54) 1,2-Dibromoethane	9.610	107	31663	21.404	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	90862	100.219	ug/l	99
56) Bromoform	10.799	173	22816	19.462	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	175463	108.482	ug/l	99
59) 2-Hexanone	9.427	43	136271	110.178	ug/l	99
61) Tetrachloroethene	9.275	164	27868	20.807	ug/l	95
62) Toluene	8.720	91	125614	20.690	ug/l	100
64) Chlorobenzene	10.079	112	80222	20.888	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	30067	19.824	ug/l	97
66) Ethyl Benzene	10.195	91	140489	20.536	ug/l	98
67) m/p-Xylenes	10.299	106	112278	41.988	ug/l	97
68) o-Xylene	10.640	106	54177	20.794	ug/l	98
69) Styrene	10.652	104	89024	20.567	ug/l	100
70) Isopropylbenzene	10.963	105	144647	20.921	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	43671	21.358	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	39845m	21.882	ug/l	
73) Bromobenzene	11.195	156	34636	20.248	ug/l	98
74) n-propylbenzene	11.305	91	164825	20.804	ug/l	99
75) 2-Chlorotoluene	11.366	91	101664	21.347	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	126045	21.685	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	11298	18.661	ug/l	92
78) 4-Chlorotoluene	11.457	91	115467	21.157	ug/l	99
79) tert-butylbenzene	11.713	119	122338	21.232	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	123746	21.658	ug/l	98
81) sec-Butylbenzene	11.890	105	147384	21.283	ug/l	99
82) p-Isopropyltoluene	12.012	119	125720	21.287	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	66653	21.169	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	67881	21.419	ug/l	100
85) n-Butylbenzene	12.335	91	105377	21.376	ug/l	98
86) Hexachloroethane	12.536	117	19811	18.900	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	65894	21.239	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	9024	20.256	ug/l	96
89) 1,2,4-Trichlorobenzene	13.591	180	39851	20.793	ug/l	95
90) Hexachlorobutadiene	13.725	225	17463	21.474	ug/l	98
91) Naphthalene	13.774	128	131682	21.230	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	40076	20.881	ug/l	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121622\
 Data File : VX033452.D
 Acq On : 16 Dec 2022 11:20
 Operator : JC/MD
 Sample : VX1216WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1216WBS01

Quant Time: Dec 17 07:44:25 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X121222W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Dec 12 12:37:35 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 12/19/2022
 Supervised By : Mahesh Dadoda 12/19/2022

