

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX111122\
 Data File : VX032763.D
 Acq On : 11 Nov 2022 10:46
 Operator : JC/MD
 Sample : VX1111WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1111WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/14/2022
 Supervised By : Mahesh Dadoda 11/14/2022

Quant Time: Nov 14 05:09:41 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X111022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 11 05:24:06 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	11407	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	80340	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	86012	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	33515	30.455	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.533%			
60) 4-Bromofluorobenzene	11.079	95	48542	29.504	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.333%			
63) Toluene-d8	8.646	98	87133	30.018	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.067%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	20500	20.306	ug/l	98
3) Chloromethane	1.294	50	20405	20.368	ug/l	96
4) Vinyl Chloride	1.373	62	22801	20.129	ug/l	96
5) Bromomethane	1.611	94	20157	20.043	ug/l	97
6) Chloroethane	1.690	64	15769	17.624	ug/l	88
7) Trichlorofluoromethane	1.885	101	44754	20.495	ug/l	98
8) Diethyl Ether	2.129	74	14504	20.543	ug/l	77
9) 1,1,2-Trichlorotrifluo...	2.330	101	24351	20.964	ug/l	97
10) 1,1-Dichloroethene	2.318	96	21943	19.774	ug/l	88
11) Methyl Iodide	2.452	142	23307	19.537	ug/l	96
12) Methyl Acetate	2.702	43	33959	20.659	ug/l #	87
13) Acrolein	2.239	56	24016	109.561	ug/l	98
14) Acrylonitrile	3.062	53	61118	103.718	ug/l	99
15) Acetone	2.385	58	16916	110.396	ug/l	79
16) Carbon Disulfide	2.513	76	54118	19.591	ug/l	99
17) Allyl chloride	2.666	41	35844	20.329	ug/l	87
18) Methylene Chloride	2.788	84	24833	19.405	ug/l	90
19) trans-1,2-Dichloroethene	3.093	96	24075	19.695	ug/l	87
20) Diisopropyl ether	3.757	45	76863	19.441	ug/l #	93
21) 1,1-Dichloroethane	3.611	63	43781	19.726	ug/l	95
22) cis-1,2-Dichloroethene	4.489	96	28172	19.739	ug/l	85
23) tert-Butyl Alcohol	2.977	59	24572	128.425	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	79741	20.068	ug/l #	91
25) Chloroform	5.092	83	48163	19.456	ug/l	98
26) Cyclohexane	5.476	56	38054	19.633	ug/l #	86
29) 1,1-Dichloropropene	5.690	75	35462	19.902	ug/l	95
30) 2-Butanone	4.556	43	88724	106.792	ug/l #	90
31) 2,2-Dichloropropane	4.476	77	36155	23.726	ug/l	97
32) 1,1,1-Trichloroethane	5.385	97	43791	19.538	ug/l	94
33) Carbon Tetrachloride	5.677	117	38222	19.423	ug/l	95
34) Benzene	6.037	78	98473	19.615	ug/l #	96
35) Methacrylonitrile	4.921	41	19173	20.376	ug/l	91
36) 1,2-Dichloroethane	6.086	62	42110	20.375	ug/l #	91
37) Trichloroethene	7.128	130	27590	19.644	ug/l	91
38) Methylcyclohexane	7.378	83	41021	20.548	ug/l	88
39) 1,2-Dichloropropane	7.433	63	24975	19.653	ug/l	96
40) Dibromomethane	7.580	93	19477	20.074	ug/l	97
41) Bromodichloromethane	7.823	83	35469	19.179	ug/l	100
42) Vinyl Acetate	3.720	43	318663	99.820	ug/l #	91

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	34588	20.696	ug/l #	88
44) Isopropyl Acetate	6.336	43	56465	20.161	ug/l	93
45) 1,4-Dioxane	7.683	88	11865	441.046	ug/l #	82
46) Methyl methacrylate	7.695	41	28374	20.124	ug/l	89
47) n-amyl Acetate	10.841	43	50302	20.203	ug/l	93
48) t-1,3-Dichloropropene	8.976	75	37235	19.626	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	39831	19.882	ug/l #	89
50) 1,1,2-Trichloroethane	9.152	97	25788	19.331	ug/l	95
51) Ethyl methacrylate	9.116	69	38598	19.373	ug/l	74
52) 1,3-Dichloropropane	9.311	76	43042	19.735	ug/l	99
53) Dibromochloromethane	9.524	129	28081	19.356	ug/l	100
54) 1,2-Dibromoethane	9.610	107	29029	20.202	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	89393	92.847	ug/l	93
56) Bromoform	10.798	173	19554	18.826	ug/l	99
58) 4-Methyl-2-Pentanone	8.573	43	179298	106.488	ug/l #	91
59) 2-Hexanone	9.433	43	135675	109.442	ug/l	90
61) Tetrachloroethene	9.274	164	24773	20.609	ug/l	98
62) Toluene	8.720	91	111868	19.999	ug/l	97
64) Chlorobenzene	10.079	112	69239	20.022	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.164	131	26708	20.274	ug/l	98
66) Ethyl Benzene	10.195	91	126458	20.152	ug/l	95
67) m/p-Xylenes	10.305	106	98114	40.183	ug/l	90
68) o-Xylene	10.640	106	47853	19.974	ug/l	91
69) Styrene	10.658	104	78891	19.807	ug/l	94
70) Isopropylbenzene	10.963	105	128349	20.062	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	39988	20.610	ug/l	99
72) 1,2,3-Trichloropropane	11.237	75	35992m	21.359	ug/l	
73) Bromobenzene	11.201	156	30558	19.661	ug/l	84
74) n-propylbenzene	11.304	91	148392	20.414	ug/l	95
75) 2-Chlorotoluene	11.365	91	88339	20.072	ug/l	93
76) 1,3,5-Trimethylbenzene	11.451	105	109509	20.248	ug/l	96
77) t-1,4-Dichloro-2-butene	11.018	75	10511	20.441	ug/l	90
78) 4-Chlorotoluene	11.457	91	103052	20.327	ug/l	93
79) tert-butylbenzene	11.713	119	106128	20.192	ug/l	94
80) 1,2,4-Trimethylbenzene	11.750	105	109182	20.647	ug/l	95
81) sec-Butylbenzene	11.890	105	129960	20.538	ug/l	96
82) p-Isopropyltoluene	12.012	119	110125	20.651	ug/l	96
83) 1,3-Dichlorobenzene	11.969	146	59363	20.819	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	58892	20.567	ug/l	99
85) n-Butylbenzene	12.335	91	95143	21.050	ug/l	95
86) Hexachloroethane	12.536	117	16974	19.389	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	58377	20.594	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.944	75	8852	21.505	ug/l #	80
89) 1,2,4-Trichlorobenzene	13.591	180	36272	20.835	ug/l	99
90) Hexachlorobutadiene	13.725	225	15263	21.783	ug/l	97
91) Naphthalene	13.774	128	122361	20.825	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	35915	20.512	ug/l	97

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

