

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051122\
 Data File : VX028614.D
 Acq On : 11 May 2022 11:42
 Operator : JC/MD
 Sample : VX0511WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0511WBS01

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: May 12 04:53:14 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X042822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 29 06:09:36 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.904	128	55668	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	305522	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	280200	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	110504	31.214	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	104.033%
60) 4-Bromofluorobenzene	11.079	95	128291	29.441	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.133%
63) Toluene-d8	8.647	98	363359	30.611	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.033%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.166	85	37835	19.209	ug/l	100
3) Chloromethane	1.294	50	32002	20.610	ug/l	94
4) Vinyl Chloride	1.374	62	40207	20.370	ug/l	99
5) Bromomethane	1.611	94	40232	24.740	ug/l	97
6) Chloroethane	1.685	64	31588	20.780	ug/l	99
7) Trichlorofluoromethane	1.892	101	88851	20.587	ug/l	98
8) Diethyl Ether	2.136	74	35257	20.712	ug/l	85
9) 1,1,2-Trichlorotrifluo...	2.331	101	51405	20.253	ug/l	96
10) 1,1-Dichloroethene	2.319	96	42055	20.039	ug/l	92
11) Methyl Iodide	2.453	142	50946	18.074	ug/l	98
12) Methyl Acetate	2.703	43	67952	20.282	ug/l	98
13) Acrolein	2.233	56	56236	82.719	ug/l	99
14) Acrylonitrile	3.062	53	152004	99.655	ug/l	99
15) Acetone	2.380	58	41179	95.324	ug/l	98
16) Carbon Disulfide	2.514	76	50271	20.268	ug/l	100
17) Allyl chloride	2.666	41	60865	19.300	ug/l	89
18) Methylene Chloride	2.788	84	53252	19.749	ug/l	94
19) trans-1,2-Dichloroethene	3.093	96	45185	19.489	ug/l	91
20) Diisopropyl ether	3.764	45	156183	19.926	ug/l	87
21) 1,1-Dichloroethane	3.611	63	92602	19.989	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	63490	19.452	ug/l	97
23) tert-Butyl Alcohol	2.965	59	64813	78.677	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	179085	19.407	ug/l	97
25) Chloroform	5.099	83	110190	20.242	ug/l	97
26) Cyclohexane	5.471	56	58436	19.951	ug/l #	94
29) 1,1-Dichloropropene	5.696	75	64942	19.985	ug/l	99
30) 2-Butanone	4.556	43	205121	100.151	ug/l	94
31) 2,2-Dichloropropane	4.477	77	73334	18.375	ug/l	97
32) 1,1,1-Trichloroethane	5.385	97	92485	20.241	ug/l	99
33) Carbon Tetrachloride	5.678	117	76326	19.630	ug/l	97
34) Benzene	6.044	78	208076	20.103	ug/l	96
35) Methacrylonitrile	4.922	41	40009	19.396	ug/l	86
36) 1,2-Dichloroethane	6.086	62	79713	20.666	ug/l	96
37) Trichloroethene	7.129	130	62216	19.624	ug/l	99
38) Methylcyclohexane	7.379	83	66637	20.023	ug/l	95
39) 1,2-Dichloropropane	7.434	63	54887	20.174	ug/l	99
40) Dibromomethane	7.580	93	42094	20.171	ug/l	98
41) Bromodichloromethane	7.824	83	82109	20.734	ug/l	96
42) Vinyl Acetate	3.721	43	638587	100.606	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	76048	19.842	ug/l	96
44) Isopropyl Acetate	6.336	43	119871	19.398	ug/l	97
45) 1,4-Dioxane	7.671	88	30829	383.110	ug/l	90
46) Methyl methacrylate	7.696	41	56127	19.874	ug/l	83
47) n-amyl Acetate	10.842	43	99657	18.627	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	77420	18.614	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	85821	19.203	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	67371	20.530	ug/l	99
51) Ethyl methacrylate	9.116	69	91101	19.400	ug/l	93
52) 1,3-Dichloropropane	9.311	76	104618	20.378	ug/l	99
53) Dibromochloromethane	9.525	129	67492	20.103	ug/l	100
54) 1,2-Dibromoethane	9.610	107	67026	19.633	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	269489	109.308	ug/l	99
56) Bromoform	10.799	173	49127	18.983	ug/l	96
58) 4-Methyl-2-Pentanone	8.574	43	418801	102.745	ug/l	95
59) 2-Hexanone	9.433	43	321188	101.813	ug/l	95
61) Tetrachloroethene	9.275	164	63486	20.539	ug/l	95
62) Toluene	8.720	91	246319	20.269	ug/l	97
64) Chlorobenzene	10.079	112	169935	19.821	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	65481	19.555	ug/l	97
66) Ethyl Benzene	10.195	91	287155	20.042	ug/l	100
67) m/p-Xylenes	10.305	106	229523	39.963	ug/l	97
68) o-Xylene	10.640	106	114611	19.635	ug/l	98
69) Styrene	10.659	104	190735	19.565	ug/l	98
70) Isopropylbenzene	10.963	105	305598	20.124	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	104192	20.208	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	91332m	19.907	ug/l	
73) Bromobenzene	11.201	156	79068	19.310	ug/l	94
74) n-propylbenzene	11.305	91	344401	20.340	ug/l	100
75) 2-Chlorotoluene	11.366	91	210484	20.067	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	257600	20.230	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	24074	17.330	ug/l	89
78) 4-Chlorotoluene	11.457	91	237394	20.010	ug/l	95
79) tert-butylbenzene	11.713	119	252863	19.574	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	254473	19.909	ug/l	97
81) sec-Butylbenzene	11.890	105	307933	20.109	ug/l	99
82) p-Isopropyltoluene	12.012	119	261886	19.703	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	149970	19.527	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	152918	19.584	ug/l	97
85) n-Butylbenzene	12.335	91	213686	19.920	ug/l	99
86) Hexachloroethane	12.542	117	41030	19.617	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	151334	19.566	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	21155	19.209	ug/l	95
89) 1,2,4-Trichlorobenzene	13.591	180	93652	19.385	ug/l	98
90) Hexachlorobutadiene	13.725	225	41491	20.257	ug/l	98
91) Naphthalene	13.780	128	320740	18.998	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	95079	19.633	ug/l	98

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

