

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042922\
 Data File : VX028416.D
 Acq On : 29 Apr 2022 12:09
 Operator : JC/MD
 Sample : VX0429WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0429WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/29/2022
 Supervised By : Mahesh Dadoda 05/02/2022

Quant Time: Apr 29 15:03:49 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	4.897	128	66866	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	369194	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	345183	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	136691	32.144	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 107.133%			
60) 4-Bromofluorobenzene	11.079	95	164684	30.678	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.267%			
63) Toluene-d8	8.647	98	452103	30.917	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.067%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	44428	18.779	ug/l	96
3) Chloromethane	1.294	50	37213	19.953	ug/l	99
4) Vinyl Chloride	1.374	62	48332	20.385	ug/l	97
5) Bromomethane	1.605	94	40605	20.788	ug/l	99
6) Chloroethane	1.685	64	35992	19.712	ug/l	98
7) Trichlorofluoromethane	1.886	101	105878	20.423	ug/l	99
8) Diethyl Ether	2.130	74	40690	19.901	ug/l	85
9) 1,1,2-Trichlorotrifluo...	2.331	101	58453	19.173	ug/l	96
10) 1,1-Dichloroethene	2.319	96	48027	19.052	ug/l	97
11) Methyl Iodide	2.453	142	51778	15.293	ug/l	97
12) Methyl Acetate	2.703	43	76982	19.129	ug/l	98
13) Acrolein	2.233	56	75317	92.233	ug/l	100
14) Acrylonitrile	3.062	53	175666	95.881	ug/l	100
15) Acetone	2.373	58	49357	95.120	ug/l	93
16) Carbon Disulfide	2.514	76	56862	19.086	ug/l	98
17) Allyl chloride	2.666	41	72137	19.044	ug/l	88
18) Methylene Chloride	2.788	84	65867	20.336	ug/l	94
19) trans-1,2-Dichloroethene	3.093	96	54284	19.493	ug/l	89
20) Diisopropyl ether	3.757	45	184954	19.645	ug/l	97
21) 1,1-Dichloroethane	3.611	63	107506	19.320	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	74825	19.086	ug/l	96
23) tert-Butyl Alcohol	2.953	59	84381	85.277	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	209620	18.912	ug/l	98
25) Chloroform	5.093	83	128656	19.676	ug/l	98
26) Cyclohexane	5.471	56	70138	19.936	ug/l #	94
29) 1,1-Dichloropropene	5.696	75	78053	19.877	ug/l	99
30) 2-Butanone	4.556	43	242445	97.960	ug/l	94
31) 2,2-Dichloropropane	4.477	77	90991	18.867	ug/l	97
32) 1,1,1-Trichloroethane	5.385	97	106630	19.312	ug/l	99
33) Carbon Tetrachloride	5.684	117	91535	19.482	ug/l	96
34) Benzene	6.037	78	247470	19.786	ug/l	97
35) Methacrylonitrile	4.922	41	47897	19.215	ug/l	85
36) 1,2-Dichloroethane	6.086	62	93491	20.058	ug/l	97
37) Trichloroethene	7.129	130	74268	19.386	ug/l	95
38) Methylcyclohexane	7.379	83	79723	19.824	ug/l	95
39) 1,2-Dichloropropane	7.434	63	65644	19.966	ug/l	95
40) Dibromomethane	7.580	93	50129	19.879	ug/l	97
41) Bromodichloromethane	7.824	83	95217	19.897	ug/l	97
42) Vinyl Acetate	3.721	43	769136	100.276	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	88908	19.197	ug/l	99
44) Isopropyl Acetate	6.342	43	141973	19.012	ug/l	99
45) 1,4-Dioxane	7.659	88	39490	406.106	ug/l	88
46) Methyl methacrylate	7.690	41	67081	19.656	ug/l	89
47) n-amyl Acetate	10.842	43	123468	19.098	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	93217	18.546	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	103529	19.170	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	79260	19.987	ug/l	98
51) Ethyl methacrylate	9.116	69	109099	19.226	ug/l	94
52) 1,3-Dichloropropane	9.311	76	123975	19.983	ug/l	100
53) Dibromochloromethane	9.525	129	78012	19.229	ug/l	100
54) 1,2-Dibromoethane	9.610	107	80115	19.420	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	289731	97.251	ug/l	99
56) Bromoform	10.799	173	56489	18.063	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	490520	97.685	ug/l	94
59) 2-Hexanone	9.427	43	376531	96.886	ug/l	95
61) Tetrachloroethene	9.275	164	72630	19.074	ug/l	95
62) Toluene	8.720	91	294667	19.683	ug/l	98
64) Chlorobenzene	10.079	112	204558	19.368	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	78085	18.929	ug/l	98
66) Ethyl Benzene	10.195	91	343851	19.481	ug/l	99
67) m/p-Xylenes	10.299	106	279422	39.492	ug/l	96
68) o-Xylene	10.640	106	141140	19.628	ug/l	95
69) Styrene	10.659	104	231260	19.256	ug/l	97
70) Isopropylbenzene	10.963	105	368003	19.671	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	123561	19.453	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	108822m	19.254	ug/l	
73) Bromobenzene	11.201	156	95596	18.952	ug/l	93
74) n-propylbenzene	11.305	91	419430	20.108	ug/l	100
75) 2-Chlorotoluene	11.366	91	253084	19.586	ug/l	96
76) 1,3,5-Trimethylbenzene	11.451	105	306776	19.556	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	29648	17.325	ug/l	85
78) 4-Chlorotoluene	11.457	91	287265	19.655	ug/l	96
79) tert-butylbenzene	11.713	119	308912	19.411	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	309808	19.675	ug/l	97
81) sec-Butylbenzene	11.890	105	372933	19.769	ug/l	98
82) p-Isopropyltoluene	12.012	119	322862	19.718	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	183747	19.421	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	185753	19.311	ug/l	99
85) n-Butylbenzene	12.335	91	260094	19.682	ug/l	99
86) Hexachloroethane	12.542	117	48851	18.959	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	181916	19.092	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	25726	18.962	ug/l	99
89) 1,2,4-Trichlorobenzene	13.591	180	111983	18.816	ug/l	99
90) Hexachlorobutadiene	13.725	225	46585	18.463	ug/l	99
91) Naphthalene	13.780	128	384652	18.495	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	110413	18.507	ug/l	99

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

