

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021822\
 Data File : VX027098.D
 Acq On : 18 Feb 2022 00:17
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX021822

Quant Time: Feb 18 05:15:05 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X021822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Feb 18 05:14:00 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 02/18/2022
 Supervised By : Mahesh Dadoda 02/21/2022

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

Internal Standards						
1) Bromochloromethane	4.910	128	14964	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	82882	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	72091	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	32649	30.175	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.567%			
60) 4-Bromofluorobenzene	11.086	95	34017	29.017	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.733%			
63) Toluene-d8	8.653	98	97454	30.151	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.500%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.173	85	15407	17.932	ug/l	96
3) Chloromethane	1.295	50	14727	18.046	ug/l	100
4) Vinyl Chloride	1.374	62	14626	17.964	ug/l	100
5) Bromomethane	1.605	94	9874	24.827	ug/l	93
6) Chloroethane	1.691	64	8665	17.838	ug/l	97
7) Trichlorofluoromethane	1.892	101	22667	17.861	ug/l	94
8) Diethyl Ether	2.136	74	7907	17.327	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.331	101	15583	17.635	ug/l	98
10) 1,1-Dichloroethene	2.325	96	15794	18.199	ug/l	94
11) Methyl Iodide	2.459	142	16562	14.439	ug/l	99
12) Methyl Acetate	2.709	43	23159	18.092	ug/l	94
13) Acrolein	2.240	56	18458	88.466	ug/l	100
14) Acrylonitrile	3.069	53	51065	91.077	ug/l	100
15) Acetone	2.380	58	13624	90.564	ug/l	97
16) Carbon Disulfide	2.514	76	40760	17.922	ug/l	98
17) Allyl chloride	2.666	41	27294	17.517	ug/l	98
18) Methylene Chloride	2.794	84	17419	17.801	ug/l	92
19) trans-1,2-Dichloroethene	3.093	96	17027	17.995	ug/l	94
20) Diisopropyl ether	3.764	45	56612	18.371	ug/l #	87
21) 1,1-Dichloroethane	3.617	63	30419	17.732	ug/l	97
22) cis-1,2-Dichloroethene	4.495	96	19662	18.067	ug/l	97
23) tert-Butyl Alcohol	2.959	59	20225	92.155	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	53883	17.678	ug/l	99
25) Chloroform	5.099	83	31284	17.789	ug/l	92
26) Cyclohexane	5.477	56	28623	17.994	ug/l #	99
29) 1,1-Dichloropropene	5.702	75	23113	17.551	ug/l	99
30) 2-Butanone	4.562	43	72576	91.779	ug/l	99
31) 2,2-Dichloropropane	4.483	77	18716	16.136	ug/l	99
32) 1,1,1-Trichloroethane	5.391	97	27016	17.308	ug/l	99
33) Carbon Tetrachloride	5.684	117	23808	17.413	ug/l	99
34) Benzene	6.044	78	69476	17.958	ug/l	100
35) Methacrylonitrile	4.928	41	14806	18.097	ug/l	92
36) 1,2-Dichloroethane	6.092	62	24507	17.608	ug/l	99
37) Trichloroethene	7.129	130	19825	17.437	ug/l	96
38) Methylcyclohexane	7.385	83	28383	17.494	ug/l	99
39) 1,2-Dichloropropane	7.434	63	17165	17.608	ug/l	100
40) Dibromomethane	7.586	93	12120	17.355	ug/l	98
41) Bromodichloromethane	7.824	83	23092	17.514	ug/l	97
42) Vinyl Acetate	3.727	43	241104	89.802	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	26532	17.544	ug/l	100
44) Isopropyl Acetate	6.349	43	42311	18.092	ug/l	99
45) 1,4-Dioxane	7.665	88	8796	368.130	ug/l	98
46) Methyl methacrylate	7.696	41	20438	17.834	ug/l	99
47) n-amyl Acetate	10.848	43	31741	17.101	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	22257	16.974	ug/l	100
49) cis-1,3-Dichloropropene	8.373	75	25463	17.144	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	17469	18.155	ug/l	98
51) Ethyl methacrylate	9.122	69	26813	17.514	ug/l	94
52) 1,3-Dichloropropane	9.311	76	29170	17.713	ug/l	97
53) Dibromochloromethane	9.525	129	17170	17.220	ug/l	100
54) 1,2-Dibromoethane	9.610	107	17912	17.464	ug/l	100
55) 2-Chloroethyl vinyl ether	8.245	63	69143	92.536	ug/l	100
56) Bromoform	10.799	173	11386	16.408	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	136042	91.745	ug/l	99
59) 2-Hexanone	9.433	43	102021	90.575	ug/l	99
61) Tetrachloroethene	9.275	164	20205	17.365	ug/l	94
62) Toluene	8.720	91	72559	17.774	ug/l	100
64) Chlorobenzene	10.080	112	44716	17.694	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	16686	17.839	ug/l	98
66) Ethyl Benzene	10.195	91	79422	17.666	ug/l	100
67) m/p-Xylenes	10.305	106	61737	35.550	ug/l	99
68) o-Xylene	10.647	106	29379	17.231	ug/l	93
69) Styrene	10.659	104	49351	17.474	ug/l	100
70) Isopropylbenzene	10.964	105	78134	17.668	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.214	83	23348	17.932	ug/l	98
72) 1,2,3-Trichloropropane	11.244	75	23018m	17.721	ug/l	
73) Bromobenzene	11.201	156	18659	17.219	ug/l	98
74) n-propylbenzene	11.305	91	88183	17.451	ug/l	100
75) 2-Chlorotoluene	11.366	91	54360	17.384	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	65012	17.569	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	5768	15.308	ug/l	97
78) 4-Chlorotoluene	11.457	91	60586	17.337	ug/l	100
79) tert-butylbenzene	11.720	119	62498	17.687	ug/l	97
80) 1,2,4-Trimethylbenzene	11.756	105	64065	17.340	ug/l	98
81) sec-Butylbenzene	11.890	105	78173	17.277	ug/l	100
82) p-Isopropyltoluene	12.012	119	65756	17.292	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	34363	17.071	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	34549	17.096	ug/l	100
85) n-Butylbenzene	12.335	91	51693	16.374	ug/l	100
86) Hexachloroethane	12.543	117	9801	16.239	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	34481	17.639	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	5396	16.943	ug/l	99
89) 1,2,4-Trichlorobenzene	13.591	180	20453	16.628	ug/l	99
90) Hexachlorobutadiene	13.725	225	8670	16.832	ug/l	97
91) Naphthalene	13.780	128	73525	17.002	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	21022	16.891	ug/l	99

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

