

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX111022\
 Data File : VX032752.D
 Acq On : 11 Nov 2022 02:54
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX111022

Quant Time: Nov 11 05:34:17 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

Manual Integrations APPROVED

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

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

Internal Standards						
1) Bromochloromethane	4.903	128	11422	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	80583	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	88424	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	33010	29.957	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	99.867%	
60) 4-Bromofluorobenzene	11.085	95	50232	29.698	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	99.000%	
63) Toluene-d8	8.653	98	89357	29.944	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	99.800%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	21465	21.234	ug/l	99
3) Chloromethane	1.294	50	21174	21.108	ug/l	99
4) Vinyl Chloride	1.373	62	23617	20.822	ug/l	98
5) Bromomethane	1.611	94	21821	21.670	ug/l	95
6) Chloroethane	1.684	64	18190	20.303	ug/l #	85
7) Trichlorofluoromethane	1.886	101	45275	20.706	ug/l	97
8) Diethyl Ether	2.135	74	14468	20.465	ug/l	71
9) 1,1,2-Trichlorotrifluo...	2.331	101	23594	20.286	ug/l	98
10) 1,1-Dichloroethene	2.318	96	22501	20.250	ug/l	85
11) Methyl Iodide	2.453	142	21205	17.751	ug/l	97
12) Methyl Acetate	2.702	43	34104	20.720	ug/l	89
13) Acrolein	2.239	56	22291	101.558	ug/l	99
14) Acrylonitrile	3.062	53	60399	102.363	ug/l	99
15) Acetone	2.385	58	16703	108.862	ug/l #	66
16) Carbon Disulfide	2.513	76	55851	20.192	ug/l	98
17) Allyl chloride	2.666	41	35397	20.049	ug/l	87
18) Methylene Chloride	2.788	84	26054	20.332	ug/l	89
19) trans-1,2-Dichloroethene	3.093	96	24902	20.345	ug/l #	83
20) Diisopropyl ether	3.763	45	78467	19.820	ug/l	84
21) 1,1-Dichloroethane	3.611	63	45274	20.372	ug/l	94
22) cis-1,2-Dichloroethene	4.489	96	28437	19.898	ug/l	88
23) tert-Butyl Alcohol	2.977	59	22743	118.710	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	79508	19.983	ug/l #	90
25) Chloroform	5.092	83	49502	19.971	ug/l	96
26) Cyclohexane	5.476	56	39350	20.275	ug/l #	83
29) 1,1-Dichloropropene	5.696	75	36085	20.191	ug/l	94
30) 2-Butanone	4.562	43	87835	105.403	ug/l	90
31) 2,2-Dichloropropane	4.483	77	28979	18.959	ug/l	98
32) 1,1,1-Trichloroethane	5.391	97	45005	20.019	ug/l	95
33) Carbon Tetrachloride	5.678	117	38556	19.533	ug/l	96
34) Benzene	6.037	78	100204	19.899	ug/l #	95
35) Methacrylonitrile	4.922	41	19143	20.283	ug/l	87
36) 1,2-Dichloroethane	6.086	62	41562	20.049	ug/l #	92
37) Trichloroethene	7.128	130	28332	20.111	ug/l	90
38) Methylcyclohexane	7.385	83	39408	19.680	ug/l	89
39) 1,2-Dichloropropane	7.433	63	25318	19.863	ug/l	99
40) Dibromomethane	7.586	93	19719	20.262	ug/l	97
41) Bromodichloromethane	7.823	83	36287	19.563	ug/l	96
42) Vinyl Acetate	3.721	43	319722	99.849	ug/l #	91

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	34941	20.844	ug/l #	86
44) Isopropyl Acetate	6.342	43	56844	20.235	ug/l	93
45) 1,4-Dioxane	7.689	88	11610	430.266	ug/l #	86
46) Methyl methacrylate	7.695	41	28248	19.975	ug/l	87
47) n-amyl Acetate	10.841	43	51286	20.536	ug/l	94
48) t-1,3-Dichloropropene	8.982	75	36572	19.218	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	38516	19.168	ug/l #	87
50) 1,1,2-Trichloroethane	9.153	97	26419	19.744	ug/l	95
51) Ethyl methacrylate	9.116	69	39171	19.602	ug/l	81
52) 1,3-Dichloropropane	9.311	76	43870	20.054	ug/l	99
53) Dibromochloromethane	9.524	129	27662	19.010	ug/l	100
54) 1,2-Dibromoethane	9.610	107	28717	19.924	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	98152	101.637	ug/l	93
56) Bromoform	10.799	173	20156	19.347	ug/l	99
58) 4-Methyl-2-Pentanone	8.573	43	180586	104.327	ug/l #	91
59) 2-Hexanone	9.433	43	135837	106.584	ug/l	90
61) Tetrachloroethene	9.274	164	24513	19.836	ug/l	93
62) Toluene	8.720	91	113613	19.757	ug/l	98
64) Chlorobenzene	10.079	112	72708	20.451	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.165	131	27326	20.177	ug/l	98
66) Ethyl Benzene	10.195	91	129068	20.007	ug/l	96
67) m/p-Xylenes	10.305	106	100965	40.223	ug/l	91
68) o-Xylene	10.646	106	48752	19.794	ug/l	88
69) Styrene	10.658	104	79507	19.417	ug/l	93
70) Isopropylbenzene	10.963	105	132125	20.089	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	41037	20.574	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	36963m	21.337	ug/l	
73) Bromobenzene	11.201	156	32550	20.372	ug/l	89
74) n-propylbenzene	11.305	91	149499	20.005	ug/l	95
75) 2-Chlorotoluene	11.366	91	91735	20.275	ug/l	91
76) 1,3,5-Trimethylbenzene	11.451	105	111386	20.033	ug/l	96
77) t-1,4-Dichloro-2-butene	11.018	75	9753	18.450	ug/l	90
78) 4-Chlorotoluene	11.457	91	103321	19.824	ug/l	93
79) tert-butylbenzene	11.713	119	107924	19.974	ug/l	93
80) 1,2,4-Trimethylbenzene	11.756	105	111626	20.533	ug/l	94
81) sec-Butylbenzene	11.890	105	131626	20.234	ug/l	95
82) p-Isopropyltoluene	12.012	119	109822	20.032	ug/l	95
83) 1,3-Dichlorobenzene	11.969	146	59344	20.244	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	59947	20.364	ug/l	98
85) n-Butylbenzene	12.335	91	91293	19.647	ug/l	96
86) Hexachloroethane	12.542	117	17053	18.948	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	58977	20.238	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	8707	20.576	ug/l #	80
89) 1,2,4-Trichlorobenzene	13.591	180	35713	19.955	ug/l	99
90) Hexachlorobutadiene	13.725	225	15165	21.053	ug/l	98
91) Naphthalene	13.774	128	123051	20.371	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	35525	19.736	ug/l	99

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

