

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011022\
 Data File : VX026398.D
 Acq On : 10 Jan 2022 13:07
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX011022

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Jan 10 16:08:09 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jan 10 12:50:55 2022
 Response via : Initial Calibration

01/11/2022
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	4.904	128	23068	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	129530	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	111450	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	55427	29.881	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.600%
60) 4-Bromofluorobenzene	11.079	95	54763	29.443	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.133%
63) Toluene-d8	8.653	98	151623	29.614	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.173	85	32027	23.051	ug/l	100
3) Chloromethane	1.295	50	26917	22.174	ug/l	98
4) Vinyl Chloride	1.380	62	28632	21.337	ug/l	97
5) Bromomethane	1.618	94	14273	23.624	ug/l	91
6) Chloroethane	1.691	64	16166	21.230	ug/l	99
7) Trichlorofluoromethane	1.892	101	45265	21.284	ug/l	98
8) Diethyl Ether	2.136	74	16400	21.612	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.337	101	29069	21.899	ug/l	100
10) 1,1-Dichloroethene	2.325	96	26056	21.013	ug/l	92
11) Methyl Iodide	2.459	142	25658	19.052	ug/l	99
12) Methyl Acetate	2.703	43	55395	21.324	ug/l	99
13) Acrolein	2.239	56	26631	98.918	ug/l	97
14) Acrylonitrile	3.069	53	77651	107.164	ug/l	100
15) Acetone	2.386	58	24625	108.190	ug/l	96
16) Carbon Disulfide	2.520	76	74260	21.207	ug/l	100
17) Allyl chloride	2.672	41	49795	20.866	ug/l	98
18) Methylene Chloride	2.794	84	29095	21.303	ug/l	96
19) trans-1,2-Dichloroethene	3.099	96	27842	20.888	ug/l	98
20) Diisopropyl ether	3.764	45	99187	21.385	ug/l	98
21) 1,1-Dichloroethane	3.617	63	54055	21.169	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	33025	21.178	ug/l	98
23) tert-Butyl Alcohol	2.989	59	28762	109.434	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	97375	21.116	ug/l	98
25) Chloroform	5.099	83	55591	21.010	ug/l	97
26) Cyclohexane	5.477	56	50004	21.409	ug/l #	100
29) 1,1-Dichloropropene	5.696	75	41760	20.874	ug/l	99
30) 2-Butanone	4.562	43	119391	102.762	ug/l	99
31) 2,2-Dichloropropane	4.477	77	42330	20.428	ug/l	100
32) 1,1,1-Trichloroethane	5.391	97	51242	21.039	ug/l	100
33) Carbon Tetrachloride	5.684	117	44263	20.514	ug/l	99
34) Benzene	6.044	78	116625	21.024	ug/l	99
35) Methacrylonitrile	4.922	41	25844	21.230	ug/l	98
36) 1,2-Dichloroethane	6.092	62	46965	20.963	ug/l	100
37) Trichloroethene	7.129	130	33875	21.145	ug/l	99
38) Methylcyclohexane	7.385	83	51371	21.427	ug/l	99
39) 1,2-Dichloropropane	7.434	63	30006	21.153	ug/l	97
40) Dibromomethane	7.586	93	21117	21.192	ug/l	99
41) Bromodichloromethane	7.824	83	43327	21.068	ug/l	100
42) Vinyl Acetate	3.727	43	383200	106.456	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	46026	21.789	ug/l	97
44) Isopropyl Acetate	6.342	43	74139	21.264	ug/l	100
45) 1,4-Dioxane	7.690	88	11946	442.062	ug/l	96
46) Methyl methacrylate	7.696	41	37188	21.744	ug/l	96
47) n-amyl Acetate	10.842	43	56919	21.820	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	42347	20.622	ug/l	93
49) cis-1,3-Dichloropropene	8.366	75	47567	20.948	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	28751	20.984	ug/l	93
51) Ethyl methacrylate	9.116	69	47381	21.689	ug/l	99
52) 1,3-Dichloropropane	9.311	76	51327	21.617	ug/l	98
53) Dibromochloromethane	9.525	129	31423	21.102	ug/l	99
54) 1,2-Dibromoethane	9.610	107	31082	21.391	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	81671	69.890	ug/l	100
56) Bromoform	10.799	173	20335	20.571	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	225664	108.553	ug/l	99
59) 2-Hexanone	9.433	43	172797	107.350	ug/l	100
61) Tetrachloroethene	9.275	164	34676	21.110	ug/l	98
62) Toluene	8.720	91	126639	21.284	ug/l	99
64) Chlorobenzene	10.080	112	76421	21.156	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	29558	21.489	ug/l	98
66) Ethyl Benzene	10.195	91	141557	21.263	ug/l	100
67) m/p-Xylenes	10.305	106	105279	42.564	ug/l	99
68) o-Xylene	10.640	106	51834	21.607	ug/l	99
69) Styrene	10.659	104	84721	21.247	ug/l	99
70) Isopropylbenzene	10.964	105	139375	21.655	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	36980	21.083	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	38470m	21.627	ug/l	
73) Bromobenzene	11.201	156	30882	20.961	ug/l	98
74) n-propylbenzene	11.305	91	159984	21.520	ug/l	99
75) 2-Chlorotoluene	11.366	91	94997	21.271	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	115509	21.485	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	10199	19.064	ug/l	91
78) 4-Chlorotoluene	11.457	91	108674	21.344	ug/l	99
79) tert-butylbenzene	11.713	119	106103	21.321	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	112757	21.233	ug/l	98
81) sec-Butylbenzene	11.890	105	140404	21.539	ug/l	100
82) p-Isopropyltoluene	12.012	119	118953	21.601	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	57558	20.992	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	57585	20.959	ug/l	100
85) n-Butylbenzene	12.335	91	100537	21.095	ug/l	100
86) Hexachloroethane	12.543	117	17225	20.718	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	56119	21.301	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	9274	20.723	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	35259	20.443	ug/l	99
90) Hexachlorobutadiene	13.725	225	15652	20.792	ug/l	97
91) Naphthalene	13.774	128	121567	20.389	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	34742	20.251	ug/l	99

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

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