

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010723\
 Data File : VX033653.D
 Acq On : 07 Jan 2023 01:22
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX010723

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/09/2023
 Supervised By : Mahesh Dadoda 01/09/2023

Quant Time: Jan 07 06:26:39 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jan 07 06:16:21 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	16395	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	110759	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	122363	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	40048	30.168	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.567%			
60) 4-Bromofluorobenzene	11.079	95	65836	29.852	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.500%			
63) Toluene-d8	8.647	98	118486	30.256	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.867%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	32252	18.810	ug/l	99
3) Chloromethane	1.295	50	36162	19.675	ug/l	98
4) Vinyl Chloride	1.374	62	35480	21.371	ug/l	98
5) Bromomethane	1.618	94	17556	19.092	ug/l	95
6) Chloroethane	1.691	64	16896	17.378	ug/l	97
7) Trichlorofluoromethane	1.892	101	50057	19.539	ug/l	99
8) Diethyl Ether	2.130	74	14888	17.848	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.331	101	30342	22.840	ug/l	97
10) 1,1-Dichloroethene	2.325	96	30182	24.098	ug/l	92
11) Methyl Iodide	2.453	142	47987	22.288	ug/l	96
12) Methyl Acetate	2.709	43	51130	19.500	ug/l	99
13) Acrolein	2.246	56	29314	103.686	ug/l	98
14) Acrylonitrile	3.069	53	83529	96.600	ug/l	99
15) Acetone	2.404	58	22664	115.818	ug/l	79
16) Carbon Disulfide	2.514	76	80191	22.003	ug/l	98
17) Allyl chloride	2.666	41	54476	20.446	ug/l	91
18) Methylene Chloride	2.788	84	35073	19.996	ug/l	94
19) trans-1,2-Dichloroethene	3.093	96	32555	19.347	ug/l	97
20) Diisopropyl ether	3.758	45	110808	19.268	ug/l	89
21) 1,1-Dichloroethane	3.611	63	59394	18.833	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	37642	18.811	ug/l	97
23) tert-Butyl Alcohol	3.038	59	32402m	94.869	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	103296	19.314	ug/l	98
25) Chloroform	5.093	83	60616	18.936	ug/l	96
26) Cyclohexane	5.471	56	54896	18.754	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	45394	18.961	ug/l	98
30) 2-Butanone	4.568	43	115762	92.590	ug/l #	97
31) 2,2-Dichloropropane	4.477	77	37924	18.398	ug/l	99
32) 1,1,1-Trichloroethane	5.391	97	52091	18.636	ug/l	99
33) Carbon Tetrachloride	5.678	117	46750	18.530	ug/l	97
34) Benzene	6.038	78	132417	19.039	ug/l	98
35) Methacrylonitrile	4.922	41	26463	18.575	ug/l	94
36) 1,2-Dichloroethane	6.086	62	47487	18.782	ug/l	99
37) Trichloroethene	7.123	130	37918	18.904	ug/l	98
38) Methylcyclohexane	7.379	83	55640	18.690	ug/l	99
39) 1,2-Dichloropropane	7.434	63	33078	18.609	ug/l	95
40) Dibromomethane	7.580	93	23820	19.068	ug/l	98
41) Bromodichloromethane	7.824	83	45473	18.768	ug/l	98
42) Vinyl Acetate	3.721	43	427485	95.679	ug/l	100

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43) Ethyl Acetate	4.715	43	49374	19.273	ug/l	98
44) Isopropyl Acetate	6.342	43	73767	18.353	ug/l	98
45) 1,4-Dioxane	7.732	88	16221	369.929	ug/l #	33
46) Methyl methacrylate	7.690	41	37149	18.255	ug/l	99
47) n-amyl Acetate	10.842	43	64357	18.807	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	45270	18.285	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	50962	18.534	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	34076	18.792	ug/l	98
51) Ethyl methacrylate	9.116	69	51240	18.950	ug/l	98
52) 1,3-Dichloropropane	9.305	76	57030	18.778	ug/l	99
53) Dibromochloromethane	9.519	129	36755	18.597	ug/l	96
54) 1,2-Dibromoethane	9.610	107	36816	18.998	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	121667	93.075	ug/l	99
56) Bromoform	10.799	173	26599	17.529	ug/l	96
58) 4-Methyl-2-Pentanone	8.574	43	233098	95.899	ug/l	99
59) 2-Hexanone	9.433	43	170183	95.134	ug/l	100
61) Tetrachloroethene	9.275	164	33190	18.799	ug/l	99
62) Toluene	8.720	91	146592	19.031	ug/l	97
64) Chlorobenzene	10.080	112	94859	19.121	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	34762	18.617	ug/l	99
66) Ethyl Benzene	10.195	91	162621	18.932	ug/l	99
67) m/p-Xylenes	10.299	106	130380	38.457	ug/l	99
68) o-Xylene	10.640	106	63320	19.002	ug/l	99
69) Styrene	10.653	104	105656	19.157	ug/l	99
70) Isopropylbenzene	10.964	105	165837	19.217	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.214	83	49190	18.930	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	44575m	18.936	ug/l	
73) Bromobenzene	11.195	156	43691	19.130	ug/l	97
74) n-propylbenzene	11.305	91	185327	18.915	ug/l	100
75) 2-Chlorotoluene	11.360	91	112377	19.176	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	137207	19.150	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	12397	17.603	ug/l	95
78) 4-Chlorotoluene	11.451	91	125651	19.119	ug/l	99
79) tert-butylbenzene	11.713	119	141270	19.225	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	135776	19.182	ug/l	97
81) sec-Butylbenzene	11.890	105	168221	18.920	ug/l	100
82) p-Isopropyltoluene	12.006	119	145609	18.987	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	78443	18.814	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	77163	18.563	ug/l	100
85) n-Butylbenzene	12.329	91	104356	16.738	ug/l	99
86) Hexachloroethane	12.536	117	17939	14.379	ug/l	95
87) 1,2-Dichlorobenzene	12.335	146	66039	16.443	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	8261	15.313	ug/l	92
89) 1,2,4-Trichlorobenzene	13.585	180	38736m	14.023	ug/l	
90) Hexachlorobutadiene	13.725	225	18775	14.176	ug/l	97
91) Naphthalene	13.774	128	122193	15.065	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	40078	14.461	ug/l	99

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

