

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030524\
 Data File : VX040585.D
 Acq On : 05 Mar 2024 13:36
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX030524

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/06/2024
 Supervised By : Mahesh Dadoda 03/06/2024

Quant Time: Mar 06 00:10:15 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 05 13:21:29 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	17398	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	98843	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	86200	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	50870	29.276	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.600%
60) 4-Bromofluorobenzene	11.079	95	46169	31.225	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	104.067%
63) Toluene-d8	8.647	98	123989	32.548	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	108.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	25073	21.248	ug/l	97
3) Chloromethane	1.295	50	24462	20.233	ug/l	95
4) Vinyl Chloride	1.374	62	26720	20.449	ug/l	96
5) Bromomethane	1.605	94	18230	22.844	ug/l	97
6) Chloroethane	1.685	64	15585	20.302	ug/l	98
7) Trichlorofluoromethane	1.886	101	39514	19.862	ug/l	95
8) Diethyl Ether	2.130	74	12993	19.235	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.325	101	23930	21.960	ug/l	97
10) 1,1-Dichloroethene	2.319	96	21316	20.546	ug/l	100
11) Methyl Iodide	2.447	142	23890	19.039	ug/l	93
12) Methyl Acetate	2.703	43	32980	19.298	ug/l	97
13) Acrolein	2.233	56	30525	94.743	ug/l	98
14) Acrylonitrile	3.063	53	64755	96.225	ug/l	97
15) Acetone	2.374	58	18795	97.708	ug/l	69
16) Carbon Disulfide	2.508	76	58357	20.466	ug/l	96
17) Allyl chloride	2.660	41	37767	19.726	ug/l	86
18) Methylene Chloride	2.788	84	24326	20.536	ug/l	99
19) trans-1,2-Dichloroethene	3.087	96	23144	20.433	ug/l	88
20) Diisopropyl ether	3.758	45	74823	19.541	ug/l	97
21) 1,1-Dichloroethane	3.605	63	45413	20.611	ug/l	97
22) cis-1,2-Dichloroethene	4.489	96	26809	20.381	ug/l	97
23) tert-Butyl Alcohol	2.953	59	30256	95.158	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	77683	20.288	ug/l	94
25) Chloroform	5.087	83	48961	20.302	ug/l	95
26) Cyclohexane	5.465	56	36338	20.435	ug/l #	94
29) 1,1-Dichloropropene	5.684	75	34995	20.454	ug/l	98
30) 2-Butanone	4.544	43	101499	97.218	ug/l	99
31) 2,2-Dichloropropane	4.471	77	38901	21.066	ug/l	98
32) 1,1,1-Trichloroethane	5.385	97	43489	20.173	ug/l	96
33) Carbon Tetrachloride	5.678	117	36376	20.055	ug/l	98
34) Benzene	6.032	78	93435	20.230	ug/l	96
35) Methacrylonitrile	4.916	41	20587	19.208	ug/l	97
36) 1,2-Dichloroethane	6.080	62	42340	19.827	ug/l #	88
37) Trichloroethene	7.123	130	25001	20.143	ug/l	93
38) Methylcyclohexane	7.379	83	39105	21.226	ug/l	98
39) 1,2-Dichloropropane	7.422	63	23865	20.294	ug/l	97
40) Dibromomethane	7.580	93	18677	20.217	ug/l	94
41) Bromodichloromethane	7.818	83	37436	20.369	ug/l	96
42) Vinyl Acetate	3.715	43	356915	99.292	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.709	43	39503	20.090	ug/l	97
44) Isopropyl Acetate	6.336	43	60021	19.123	ug/l	98
45) 1,4-Dioxane	7.653	88	12735	394.731	ug/l	96
46) Methyl methacrylate	7.690	41	31587	20.263	ug/l	94
47) n-amyl Acetate	10.842	43	50473	18.659	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	39025	20.090	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	40466	20.449	ug/l	94
50) 1,1,2-Trichloroethane	9.147	97	24615	20.059	ug/l	99
51) Ethyl methacrylate	9.116	69	38262	19.805	ug/l	98
52) 1,3-Dichloropropane	9.305	76	42130	20.120	ug/l	98
53) Dibromochloromethane	9.519	129	27478	19.643	ug/l	100
54) 1,2-Dibromoethane	9.604	107	27063	19.931	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	100359	102.007	ug/l	99
56) Bromoform	10.799	173	17865	18.005	ug/l #	96
58) 4-Methyl-2-Pentanone	8.568	43	203520	106.030	ug/l	99
59) 2-Hexanone	9.427	43	163762	105.625	ug/l	96
61) Tetrachloroethene	9.269	164	23161	22.638	ug/l	97
62) Toluene	8.714	91	104317	21.973	ug/l	99
64) Chlorobenzene	10.080	112	59403	20.472	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	21325	19.268	ug/l	98
66) Ethyl Benzene	10.189	91	111725	20.410	ug/l	96
67) m/p-Xylenes	10.299	106	81703	40.419	ug/l	94
68) o-Xylene	10.640	106	39344	20.219	ug/l	96
69) Styrene	10.653	104	64974	19.874	ug/l	97
70) Isopropylbenzene	10.964	105	111738	21.251	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	38106	20.672	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	32544m	19.622	ug/l	
73) Bromobenzene	11.195	156	26220	21.064	ug/l	92
74) n-propylbenzene	11.305	91	136161	20.967	ug/l	100
75) 2-Chlorotoluene	11.366	91	78913	20.477	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	96039	20.747	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	9724	18.865	ug/l	85
78) 4-Chlorotoluene	11.451	91	95501	20.774	ug/l	98
79) tert-butylbenzene	11.713	119	88892	20.574	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	92569	20.296	ug/l	99
81) sec-Butylbenzene	11.890	105	119186	20.894	ug/l	98
82) p-Isopropyltoluene	12.006	119	103844	22.240	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	50741	20.950	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	54310	21.927	ug/l	99
85) n-Butylbenzene	12.329	91	102259	22.507	ug/l	97
86) Hexachloroethane	12.536	117	17886	21.953	ug/l	94
87) 1,2-Dichlorobenzene	12.335	146	50624	21.509	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.939	75	10997	22.312	ug/l	95
89) 1,2,4-Trichlorobenzene	13.585	180	35771	22.572	ug/l	97
90) Hexachlorobutadiene	13.725	225	14354	22.400	ug/l	98
91) Naphthalene	13.774	128	112701	21.802	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	33852	21.664	ug/l	98

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

