

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061424\
 Data File : VX041874.D
 Acq On : 14 Jun 2024 13:42
 Operator : JC/MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/17/2024
 Supervised By : Mahesh Dadoda 06/17/2024

Quant Time: Jun 15 03:39:42 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 15 03:37:34 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	31148	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	182423	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	171140	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	65326	30.466	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.567%
60) 4-Bromofluorobenzene	11.079	95	81019	30.583	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	101.933%
63) Toluene-d8	8.647	98	219116	29.926	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.767%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	100921	50.053	ug/l	97
3) Chloromethane	1.301	50	112654	49.982	ug/l	99
4) Vinyl Chloride	1.374	62	110357	50.068	ug/l	99
5) Bromomethane	1.599	94	57948	49.181	ug/l	99
6) Chloroethane	1.666	64	48078	51.054	ug/l	99
7) Trichlorofluoromethane	1.868	101	133684	48.160	ug/l	97
8) Diethyl Ether	2.136	74	58635	48.809	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	91693	48.590	ug/l	99
10) 1,1-Dichloroethene	2.307	96	93223	48.972	ug/l	97
11) Methyl Iodide	2.441	142	128813	51.992	ug/l	99
12) Methyl Acetate	2.709	43	119435	49.212	ug/l	99
13) Acrolein	2.239	56	118803	242.773	ug/l	99
14) Acrylonitrile	3.069	53	289942	251.705	ug/l	99
15) Acetone	2.392	58	79540	241.379	ug/l	94
16) Carbon Disulfide	2.502	76	207913	49.838	ug/l	100
17) Allyl chloride	2.660	41	146943	50.827	ug/l	98
18) Methylene Chloride	2.788	84	105699	48.409	ug/l	97
19) trans-1,2-Dichloroethene	3.087	96	94124	49.359	ug/l	99
20) Diisopropyl ether	3.770	45	295730	49.766	ug/l	95
21) 1,1-Dichloroethane	3.605	63	167665	49.395	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	114865	49.761	ug/l	99
23) tert-Butyl Alcohol	3.002	59	108024	239.069	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	291079	49.432	ug/l	99
25) Chloroform	5.093	83	168464	48.835	ug/l	99
26) Cyclohexane	5.465	56	146243	49.604	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	116573	48.961	ug/l	98
30) 2-Butanone	4.568	43	399472	251.102	ug/l	100
31) 2,2-Dichloropropane	4.471	77	127830	48.999	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	147866	49.016	ug/l	99
33) Carbon Tetrachloride	5.672	117	128574	49.395	ug/l	99
34) Benzene	6.038	78	386060	48.675	ug/l	99
35) Methacrylonitrile	4.928	41	81586	51.058	ug/l	96
36) 1,2-Dichloroethane	6.086	62	121052	48.992	ug/l	100
37) Trichloroethene	7.123	130	105294	48.602	ug/l	99
38) Methylcyclohexane	7.379	83	154796	49.084	ug/l	97
39) 1,2-Dichloropropane	7.428	63	94239	49.880	ug/l	96
40) Dibromomethane	7.580	93	68209	48.804	ug/l	99
41) Bromodichloromethane	7.824	83	124314	49.649	ug/l	99
42) Vinyl Acetate	3.721	43	1340398	251.717	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	150824	50.563	ug/l	100
44) Isopropyl Acetate	6.348	43	221771	49.638	ug/l	100
45) 1,4-Dioxane	7.665	88	52987m	956.593	ug/l	
46) Methyl methacrylate	7.696	41	110183	50.440	ug/l	99
47) n-amyl Acetate	10.842	43	204683	51.047	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	129362	50.179	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	145899	50.453	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	100761	49.582	ug/l	99
51) Ethyl methacrylate	9.116	69	162333	50.284	ug/l	100
52) 1,3-Dichloropropane	9.305	76	163351	49.168	ug/l	99
53) Dibromochloromethane	9.519	129	112760	50.703	ug/l	99
54) 1,2-Dibromoethane	9.610	107	107027	49.942	ug/l	100
55) 2-Chloroethyl vinyl ether	8.245	63	385678	256.664	ug/l	100
56) Bromoform	10.799	173	91587	50.505	ug/l	100
58) 4-Methyl-2-Pentanone	8.574	43	767921	250.407	ug/l	100
59) 2-Hexanone	9.433	43	599993	253.485	ug/l	99
61) Tetrachloroethene	9.275	164	103866	48.231	ug/l	99
62) Toluene	8.720	91	420347	48.537	ug/l	100
64) Chlorobenzene	10.080	112	287448	48.742	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	100989	49.584	ug/l	98
66) Ethyl Benzene	10.195	91	469649	49.603	ug/l	99
67) m/p-Xylenes	10.299	106	381039	100.052	ug/l	96
68) o-Xylene	10.640	106	188692	49.695	ug/l	98
69) Styrene	10.653	104	322458	50.820	ug/l	99
70) Isopropylbenzene	10.964	105	477852	50.053	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	164021	49.643	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	132463m	46.773	ug/l	
73) Bromobenzene	11.195	156	136045	48.854	ug/l	99
74) n-propylbenzene	11.305	91	528503	50.394	ug/l	100
75) 2-Chlorotoluene	11.366	91	330727	49.663	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	398020	49.764	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	51961	52.486	ug/l	86
78) 4-Chlorotoluene	11.451	91	370323	50.058	ug/l	100
79) tert-butylbenzene	11.713	119	425324	50.098	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	403469	50.494	ug/l	99
81) sec-Butylbenzene	11.890	105	496370	50.127	ug/l	100
82) p-Isopropyltoluene	12.006	119	438944	50.585	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	245038	49.351	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	244563	49.483	ug/l	100
85) n-Butylbenzene	12.329	91	342720	51.075	ug/l	100
86) Hexachloroethane	12.536	117	70770	49.940	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	247583	49.305	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	34979	51.183	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	169387	49.832	ug/l	99
90) Hexachlorobutadiene	13.725	225	81667	48.757	ug/l	98
91) Naphthalene	13.774	128	524390	51.057	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	173643	49.326	ug/l	98

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

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