

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051524\
 Data File : VX041535.D
 Acq On : 15 May 2024 13:06
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/16/2024
 Supervised By : Mahesh Dadoda 05/16/2024

Quant Time: May 16 04:59:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 16 04:55:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	29317	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	167564	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	156744	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	66951	29.000	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.667%		
60) 4-Bromofluorobenzene	11.079	95	75208	30.736	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	102.467%		
63) Toluene-d8	8.646	98	197229	29.354	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.833%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	235733	153.731	ug/l	100
3) Chloromethane	1.300	50	254945	151.828	ug/l	99
4) Vinyl Chloride	1.373	62	263691	149.156	ug/l	96
5) Bromomethane	1.599	94	173478	154.278	ug/l	97
6) Chloroethane	1.666	64	120395	137.096	ug/l	96
7) Trichlorofluoromethane	1.861	101	378848	141.179	ug/l	97
8) Diethyl Ether	2.135	74	154072	153.748	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.318	101	252154	162.040	ug/l	98
10) 1,1-Dichloroethene	2.306	96	251706	167.812	ug/l	96
11) Methyl Iodide	2.446	142	310577	173.847	ug/l	99
12) Methyl Acetate	2.708	43	347347	153.822	ug/l	97
13) Acrolein	2.239	56	255766	930.023	ug/l	99
14) Acrylonitrile	3.074	53	764156	769.391	ug/l	100
15) Acetone	2.398	58	201394	756.809	ug/l	99
16) Carbon Disulfide	2.501	76	618798	182.721	ug/l	99
17) Allyl chloride	2.660	41	414109	155.573	ug/l	96
18) Methylene Chloride	2.788	84	274737	154.004	ug/l	96
19) trans-1,2-Dichloroethene	3.086	96	263005	152.912	ug/l	100
20) Diisopropyl ether	3.769	45	848176	151.658	ug/l #	85
21) 1,1-Dichloroethane	3.605	63	479291	152.698	ug/l	100
22) cis-1,2-Dichloroethene	4.483	96	322099	154.112	ug/l	97
23) tert-Butyl Alcohol	3.026	59	333975m	780.903	ug/l	
24) Methyl tert-Butyl Ether	3.123	73	857228	153.079	ug/l	100
25) Chloroform	5.092	83	500748	149.753	ug/l	98
26) Cyclohexane	5.464	56	398416	152.214	ug/l #	100
29) 1,1-Dichloropropene	5.690	75	345342	155.801	ug/l	99
30) 2-Butanone	4.568	43	1086047	738.179	ug/l	100
31) 2,2-Dichloropropane	4.470	77	407701	156.722	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	461189	155.065	ug/l	98
33) Carbon Tetrachloride	5.671	117	412314	162.023	ug/l	99
34) Benzene	6.037	78	1054736	150.671	ug/l	98
35) Methacrylonitrile	4.928	41	225491	151.934	ug/l	99
36) 1,2-Dichloroethane	6.086	62	391660	149.931	ug/l	99
37) Trichloroethene	7.122	130	303885	155.804	ug/l	100
38) Methylcyclohexane	7.378	83	436250	155.004	ug/l	99
39) 1,2-Dichloropropane	7.427	63	254082	153.545	ug/l	96
40) Dibromomethane	7.580	93	201301	154.568	ug/l	99
41) Bromodichloromethane	7.823	83	394825	161.481	ug/l	99
42) Vinyl Acetate	3.727	43	3936488	771.168	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.720	43	422225	148.735	ug/l	99
44) Isopropyl Acetate	6.348	43	683165	159.202	ug/l	99
45) 1,4-Dioxane	7.671	88	143235	3112.445	ug/l	93
46) Methyl methacrylate	7.695	41	341114	159.767	ug/l	97
47) n-amyl Acetate	10.841	43	634180	162.971	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	414688	168.888	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	438957	165.049	ug/l	98
50) 1,1,2-Trichloroethane	9.152	97	275854	152.260	ug/l	95
51) Ethyl methacrylate	9.116	69	470229	161.250	ug/l	96
52) 1,3-Dichloropropane	9.311	76	452642	151.194	ug/l	100
53) Dibromochloromethane	9.524	129	347933	168.785	ug/l	99
54) 1,2-Dibromoethane	9.610	107	295727	153.928	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	1094760	769.118	ug/l	99
56) Bromoform	10.799	173	291798	176.624	ug/l	100
58) 4-Methyl-2-Pentanone	8.579	43	2135199	745.544	ug/l	97
59) 2-Hexanone	9.433	43	1665526	729.998	ug/l	97
61) Tetrachloroethene	9.274	164	289271	150.841	ug/l	93
62) Toluene	8.720	91	1170358	150.058	ug/l	100
64) Chlorobenzene	10.079	112	802496	151.480	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.164	131	297527	158.674	ug/l	99
66) Ethyl Benzene	10.195	91	1321003	152.530	ug/l	99
67) m/p-Xylenes	10.299	106	1066071	314.788	ug/l	99
68) o-Xylene	10.640	106	525203	154.064	ug/l	97
69) Styrene	10.652	104	907776	158.818	ug/l	99
70) Isopropylbenzene	10.963	105	1339993	155.558	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	445635	150.594	ug/l	99
72) 1,2,3-Trichloropropane	11.237	75	418842m	160.435	ug/l	
73) Bromobenzene	11.201	156	393624	155.515	ug/l	99
74) n-propylbenzene	11.305	91	1507961	155.248	ug/l	98
75) 2-Chlorotoluene	11.365	91	918864	150.644	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	1144466	155.655	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	155156	184.973	ug/l	82
78) 4-Chlorotoluene	11.457	91	1071482	154.231	ug/l	97
79) tert-butylbenzene	11.713	119	1220582	155.975	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	1142574	155.038	ug/l	98
81) sec-Butylbenzene	11.890	105	1417049	154.966	ug/l	99
82) p-Isopropyltoluene	12.006	119	1272191	158.931	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	716024	157.736	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	717545	156.438	ug/l	99
85) n-Butylbenzene	12.335	91	1074188	166.768	ug/l	99
86) Hexachloroethane	12.536	117	230908	171.310	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	714548	154.222	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.938	75	109040	167.785	ug/l	96
89) 1,2,4-Trichlorobenzene	13.585	180	487394	156.560	ug/l	99
90) Hexachlorobutadiene	13.725	225	224308	147.688	ug/l	99
91) Naphthalene	13.774	128	1412076	151.760	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	490466	154.202	ug/l	100

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

