

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020924\
 Data File : VN080978.D
 Acq On : 09 Feb 2024 09:36
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Quant Time: Feb 10 01:34:52 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 10 01:30:36 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
 Carlone

02/12/2024
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	7.818	128	77657	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	468685	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	445898	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	180872	30.997	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.333%
60) 4-Bromofluorobenzene	12.853	95	214114	31.410	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	104.700%
63) Toluene-d8	10.571	98	593568	29.663	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.867%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	883612	167.343	ug/l	98
3) Chloromethane	2.359	50	894497	168.572	ug/l	96
4) Vinyl Chloride	2.512	62	1135180	179.430	ug/l	99
5) Bromomethane	2.924	94	697275	164.085	ug/l	96
6) Chloroethane	3.106	64	751624	182.252	ug/l	98
7) Trichlorofluoromethane	3.489	101	1396374	167.612	ug/l	99
8) Diethyl Ether	3.959	74	500273	170.850	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	760699	168.326	ug/l	94
10) 1,1-Dichloroethene	4.336	96	774187	174.700	ug/l	95
11) Methyl Iodide	4.583	142	827416	174.334	ug/l	92
12) Methyl Acetate	5.018	43	693473m	173.335	ug/l	
13) Acrolein	4.171	56	698502	797.600	ug/l	100
14) Acrylonitrile	5.718	53	1796600	900.016	ug/l	97
15) Acetone	4.424	58	366854	799.696	ug/l	90
16) Carbon Disulfide	4.712	76	2167544	178.221	ug/l #	95
17) Allyl chloride	5.018	41	956489	171.856	ug/l	93
18) Methylene Chloride	5.271	84	880839	173.802	ug/l	98
19) trans-1,2-Dichloroethene	5.783	96	901835	179.260	ug/l	90
20) Diisopropyl ether	6.671	45	2504600	187.232	ug/l	95
21) 1,1-Dichloroethane	6.565	63	1550372	180.848	ug/l	98
22) cis-1,2-Dichloroethene	7.488	96	1067491	182.616	ug/l	94
23) tert-Butyl Alcohol	5.518	59	624774	860.043	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	2661897	181.189	ug/l	97
25) Chloroform	7.965	83	1725563	181.432	ug/l	99
26) Cyclohexane	8.259	56	1153106	178.629	ug/l	89
29) 1,1-Dichloropropene	8.371	75	1248094	178.775	ug/l	98
30) 2-Butanone	7.483	43	2171713	847.848	ug/l	98
31) 2,2-Dichloropropane	7.488	77	1468338	184.726	ug/l	100
32) 1,1,1-Trichloroethane	8.171	97	1543416	175.740	ug/l	99
33) Carbon Tetrachloride	8.365	117	1335177	180.440	ug/l	99
34) Benzene	8.606	78	3734050	175.026	ug/l	99
35) Methacrylonitrile	7.777	41	534564	177.557	ug/l	94
36) 1,2-Dichloroethane	8.671	62	1238403	172.964	ug/l	100
37) Trichloroethene	9.353	130	983931	173.467	ug/l	98
38) Methylcyclohexane	9.606	83	1254366	180.038	ug/l	94
39) 1,2-Dichloropropane	9.624	63	898596	177.575	ug/l	100
40) Dibromomethane	9.706	93	682407	177.250	ug/l	96
41) Bromodichloromethane	9.888	83	1367075	181.434	ug/l	96
42) Vinyl Acetate	6.600	43	9933375	902.576	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	951551	174.428	ug/l	100
44) Isopropyl Acetate	8.688	43	1671657	174.385	ug/l	97
45) 1,4-Dioxane	9.694	88	307321	3399.667	ug/l	93
46) Methyl methacrylate	9.682	41	763373	174.040	ug/l	91
47) n-amyl Acetate	12.494	43	1594491	190.728	ug/l	92
48) t-1,3-Dichloropropene	10.835	75	1524285	193.024	ug/l	97
49) cis-1,3-Dichloropropene	10.312	75	1599266	186.899	ug/l	92
50) 1,1,2-Trichloroethane	11.018	97	948774	178.104	ug/l	98
51) Ethyl methacrylate	10.876	69	1387159	186.313	ug/l	91
52) 1,3-Dichloropropane	11.165	76	1566272	178.049	ug/l	100
53) Dibromochloromethane	11.359	129	1096211	188.800	ug/l	99
54) 1,2-Dibromoethane	11.470	107	998851	181.241	ug/l	99
55) 2-Chloroethyl vinyl ether	10.165	63	3126378	819.406	ug/l	98
56) Bromoform	12.582	173	744623	201.366	ug/l #	96
58) 4-Methyl-2-Pentanone	10.447	43	4943851	854.009	ug/l	95
59) 2-Hexanone	11.200	43	3793208	890.884	ug/l	95
61) Tetrachloroethene	11.106	164	869338	170.678	ug/l	94
62) Toluene	10.629	91	4241540	173.652	ug/l	100
64) Chlorobenzene	11.894	112	2625274	175.488	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.965	131	994435	179.205	ug/l	98
66) Ethyl Benzene	11.965	91	4630581	180.304	ug/l	98
67) m/p-Xylenes	12.076	106	3649258	361.826	ug/l	93
68) o-Xylene	12.400	106	1802895	182.407	ug/l	94
69) Styrene	12.412	104	3088775	189.822	ug/l	96
70) Isopropylbenzene	12.700	105	4369485	181.401	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	1250514	168.362	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	962159m	169.552	ug/l	
73) Bromobenzene	12.982	156	1084976	181.130	ug/l	91
74) n-propylbenzene	13.041	91	5036170	183.968	ug/l	97
75) 2-Chlorotoluene	13.129	91	3039429	178.852	ug/l	93
76) 1,3,5-Trimethylbenzene	13.176	105	3643432	184.864	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	445905	204.446	ug/l	94
78) 4-Chlorotoluene	13.223	91	3097612	181.989	ug/l	94
79) tert-butylbenzene	13.441	119	3006049	183.737	ug/l	97
80) 1,2,4-Trimethylbenzene	13.482	105	3648837	185.814	ug/l	97
81) sec-Butylbenzene	13.617	105	4279201	186.776	ug/l	99
82) p-Isopropyltoluene	13.729	119	3693934	192.049	ug/l	97
83) 1,3-Dichlorobenzene	13.735	146	1989423	184.658	ug/l	97
84) 1,4-Dichlorobenzene	13.812	146	1972109	182.365	ug/l	98
85) n-Butylbenzene	14.059	91	3192785	201.182	ug/l	99
86) Hexachloroethane	14.335	117	602704	198.658	ug/l	89
87) 1,2-Dichlorobenzene	14.112	146	1863217	177.634	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.723	75	241951	180.475	ug/l	87
89) 1,2,4-Trichlorobenzene	15.841	180	953985	185.912	ug/l	99
90) Hexachlorobutadiene	15.506	225	407733	181.109	ug/l	100
91) Naphthalene	15.641	128	3404543	186.856	ug/l	100
92) 1,2,3-Trichlorobenzene	15.841	180	953985	185.912	ug/l	99

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

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