

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080123\
 Data File : VN078725.D
 Acq On : 01 Aug 2023 19:25
 Operator : JC\MD
 Sample : 03572-07 2.5PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2023

Quant Time: Aug 02 04:27:59 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080123W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 02 04:20:43 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
 Carlone

08/02/2023
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	7.830	128	96107	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	520363	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	431839	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	213846	29.684	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.933%
60) 4-Bromofluorobenzene	12.853	95	156498	24.182	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	80.600%
63) Toluene-d8	10.571	98	637854	29.900	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.667%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	18075	2.982	ug/l	100
3) Chloromethane	2.371	50	26996	3.618	ug/l	97
4) Vinyl Chloride	2.524	62	29787	2.937	ug/l	93
5) Bromomethane	2.965	94	24880	3.282	ug/l	93
6) Chloroethane	3.124	64	17368m	2.630	ug/l	
7) Trichlorofluoromethane	3.506	101	28850	2.773	ug/l	97
8) Diethyl Ether	3.977	74	7694	2.266	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.377	101	15239	2.729	ug/l	78
10) 1,1-Dichloroethene	4.347	96	14311	2.673	ug/l	90
11) Methyl Iodide	4.600	142	16596	2.205	ug/l #	83
12) Methyl Acetate	5.047	43	22304	2.568	ug/l	100
13) Acrolein	4.200	56	11523	12.460	ug/l	97
14) Acrylonitrile	5.736	53	32161m	12.646	ug/l	
15) Acetone	4.459	58	8841	11.999	ug/l	82
16) Carbon Disulfide	4.724	76	38915	2.573	ug/l	99
17) Allyl chloride	5.036	41	18579m	2.541	ug/l	
18) Methylene Chloride	5.289	84	19449	3.028	ug/l #	95
19) trans-1,2-Dichloroethene	5.806	96	13685	2.211	ug/l	93
20) Diisopropyl ether	6.677	45	37665m	2.288	ug/l	
21) 1,1-Dichloroethane	6.577	63	28430	2.608	ug/l	95
22) cis-1,2-Dichloroethene	7.500	96	18340	2.638	ug/l	92
23) tert-Butyl Alcohol	5.536	59	16328m	15.712	ug/l	
24) Methyl tert-Butyl Ether	5.818	73	43259	2.403	ug/l #	91
25) Chloroform	7.971	83	29972	2.597	ug/l #	73
26) Cyclohexane	8.271	56	18645	2.322	ug/l #	95
29) 1,1-Dichloropropene	8.377	75	19416	2.536	ug/l	96
30) 2-Butanone	7.500	43	39024	12.893	ug/l #	97
31) 2,2-Dichloropropane	7.494	77	19836	2.258	ug/l	94
32) 1,1,1-Trichloroethane	8.177	97	23836	2.461	ug/l #	81
33) Carbon Tetrachloride	8.371	117	25340	2.945	ug/l #	73
34) Benzene	8.612	78	61087	2.656	ug/l #	68
35) Methacrylonitrile	7.788	41	8749	2.632	ug/l	83
36) 1,2-Dichloroethane	8.682	62	21180	2.622	ug/l	98
37) Trichloroethene	9.359	130	16625	2.576	ug/l	99
38) Methylcyclohexane	9.612	83	17500	2.224	ug/l	89
39) 1,2-Dichloropropane	9.629	63	16134	2.617	ug/l	90
40) Dibromomethane	9.718	93	12705	2.977	ug/l	94
41) Bromodichloromethane	9.894	83	22511	2.639	ug/l	92
42) Vinyl Acetate	6.624	43	109044	11.206	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	7.571	43	17855	2.853	ug/l	#	73
44) Isopropyl Acetate	8.700	43	31169	2.839	ug/l	#	66
45) 1,4-Dioxane	9.706	88	5285	52.332	ug/l	#	82
46) Methyl methacrylate	9.682	41	13013	2.588	ug/l		86
47) n-amyl Acetate	12.500	43	16490	1.950	ug/l		99
48) t-1,3-Dichloropropene	10.841	75	21174	2.325	ug/l		98
49) cis-1,3-Dichloropropene	10.318	75	23611	2.441	ug/l		93
50) 1,1,2-Trichloroethane	11.023	97	16261	2.692	ug/l	#	90
51) Ethyl methacrylate	10.882	69	19429	2.349	ug/l		94
52) 1,3-Dichloropropane	11.171	76	25000	2.303	ug/l		95
53) Dibromochloromethane	11.365	129	16204	2.374	ug/l		95
54) 1,2-Dibromoethane	11.471	107	16421	2.707	ug/l		94
55) 2-Chloroethyl vinyl ether	10.171	63	27581	10.466	ug/l	#	88
56) Bromoform	12.582	173	11027	2.470	ug/l		92
58) 4-Methyl-2-Pentanone	10.453	43	74691	11.555	ug/l		99
59) 2-Hexanone	11.206	43	52087	10.643	ug/l		94
61) Tetrachloroethene	11.106	164	14027	2.470	ug/l	#	86
62) Toluene	10.635	91	65436	2.519	ug/l		100
64) Chlorobenzene	11.900	112	37916	2.500	ug/l	#	86
65) 1,1,1,2-Tetrachloroethane	11.959	131	16803m	2.809	ug/l		
66) Ethyl Benzene	11.970	91	61071	2.333	ug/l		94
67) m/p-Xylenes	12.082	106	43064	4.306	ug/l		100
68) o-Xylene	12.400	106	20844	2.048	ug/l		97
69) Styrene	12.418	104	29317	1.791	ug/l		95
70) Isopropylbenzene	12.700	105	52690	2.093	ug/l		99
71) 1,1,2,2-Tetrachloroethane	12.947	83	21275	2.602	ug/l		94
72) 1,2,3-Trichloropropane	12.994	75	16600m	2.420	ug/l		
73) Bromobenzene	12.988	156	13992	2.268	ug/l		88
74) n-propylbenzene	13.041	91	52684	1.888	ug/l		94
75) 2-Chlorotoluene	13.129	91	35292	1.832	ug/l		94
76) 1,3,5-Trimethylbenzene	13.176	105	40375	1.797	ug/l		99
77) t-1,4-Dichloro-2-butene	12.747	75	3785	1.579	ug/l		82
78) 4-Chlorotoluene	13.229	91	29156	1.567	ug/l		100
79) tert-butylbenzene	13.441	119	35108	1.815	ug/l		92
80) 1,2,4-Trimethylbenzene	13.482	105	32302	1.505	ug/l		99
81) sec-Butylbenzene	13.617	105	41346	1.668	ug/l		84
82) p-Isopropyltoluene	13.735	119	31442	1.545	ug/l		97
83) 1,3-Dichlorobenzene	13.735	146	17582	1.607	ug/l		95
84) 1,4-Dichlorobenzene	13.817	146	15943	1.556	ug/l		95
85) n-Butylbenzene	14.059	91	17188	1.218	ug/l		97
86) Hexachloroethane	14.341	117	8813	2.376	ug/l		90
87) 1,2-Dichlorobenzene	14.117	146	16226	1.585	ug/l		98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	3091	2.226	ug/l	#	83
89) 1,2,4-Trichlorobenzene	15.388	180	3585	1.227	ug/l	#	87
90) Hexachlorobutadiene	15.506	225	4806	2.159	ug/l		96
91) Naphthalene	15.647	128	12886	1.456	ug/l		96
92) 1,2,3-Trichlorobenzene	15.853	180	4947	1.488	ug/l		71

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

