

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102523\
 Data File : VN079674.D
 Acq On : 25 Oct 2023 11:41
 Operator : JC\MD
 Sample : VN1025WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1025WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/26/2023
 Supervised By : Mahesh Dadoda 10/26/2023

Quant Time: Oct 26 01:34:27 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 18 02:19:15 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	19828	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	143397	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	175600	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	84323	29.911	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 99.700%			
60) 4-Bromofluorobenzene	12.853	95	98489	30.670	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.233%			
63) Toluene-d8	10.570	98	229153	30.454	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	54354	18.903	ug/l	97
3) Chloromethane	2.365	50	72682	19.502	ug/l	100
4) Vinyl Chloride	2.518	62	79090	19.663	ug/l	95
5) Bromomethane	2.959	94	46003	18.446	ug/l	97
6) Chloroethane	3.124	64	52684	18.610	ug/l	93
7) Trichlorofluoromethane	3.506	101	96087	19.577	ug/l	98
8) Diethyl Ether	3.965	74	34512	19.402	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.383	101	54209	19.305	ug/l	96
10) 1,1-Dichloroethene	4.353	96	50366	18.852	ug/l	81
11) Methyl Iodide	4.588	142	58692	19.842	ug/l	93
12) Methyl Acetate	5.030	43	126302	19.610	ug/l	97
13) Acrolein	4.183	56	48192	90.518	ug/l	99
14) Acrylonitrile	5.724	53	148612	96.353	ug/l	97
15) Acetone	4.430	58	46935	96.062	ug/l	89
16) Carbon Disulfide	4.718	76	143076	17.563	ug/l	96
17) Allyl chloride	5.024	41	76640	18.606	ug/l	97
18) Methylene Chloride	5.283	84	65917	20.045	ug/l	97
19) trans-1,2-Dichloroethene	5.788	96	58398	19.539	ug/l	91
20) Diisopropyl ether	6.671	45	194934	19.958	ug/l	98
21) 1,1-Dichloroethane	6.571	63	117919	19.868	ug/l	96
22) cis-1,2-Dichloroethene	7.488	96	67415	19.583	ug/l	98
23) tert-Butyl Alcohol	5.530	59	43141	83.646	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	174607	19.478	ug/l	98
25) Chloroform	7.971	83	121447	20.251	ug/l	97
26) Cyclohexane	8.259	56	80888	18.029	ug/l #	97
29) 1,1-Dichloropropene	8.377	75	83627	19.956	ug/l	99
30) 2-Butanone	7.482	43	208539	99.278	ug/l	99
31) 2,2-Dichloropropane	7.494	77	92455	19.568	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	100192	20.116	ug/l	98
33) Carbon Tetrachloride	8.365	117	86098	20.325	ug/l	99
34) Benzene	8.612	78	258525	20.305	ug/l	98
35) Methacrylonitrile	7.782	41	40973	18.543	ug/l	97
36) 1,2-Dichloroethane	8.671	62	98251	21.613	ug/l	99
37) Trichloroethene	9.359	130	59640	20.040	ug/l	98
38) Methylcyclohexane	9.606	83	83546	20.707	ug/l	97
39) 1,2-Dichloropropane	9.629	63	80650	24.003	ug/l	99
40) Dibromomethane	9.718	93	52587	23.849	ug/l	97
41) Bromodichloromethane	9.888	83	113831	24.910	ug/l	97
42) Vinyl Acetate	6.606	43	516060	96.848	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	80517	20.385	ug/l	96
44) Isopropyl Acetate	8.694	43	132498	18.870	ug/l	97
45) 1,4-Dioxane	9.706	88	24401	443.958	ug/l	94
46) Methyl methacrylate	9.682	41	71494	22.951	ug/l	92
47) n-amyl Acetate	12.500	43	97823	19.304	ug/l	97
48) t-1,3-Dichloropropene	10.841	75	92250	19.969	ug/l	97
49) cis-1,3-Dichloropropene	10.318	75	115837	22.931	ug/l	95
50) 1,1,2-Trichloroethane	11.018	97	62996	20.594	ug/l	94
51) Ethyl methacrylate	10.876	69	82647	19.583	ug/l	96
52) 1,3-Dichloropropane	11.165	76	112286	20.720	ug/l	98
53) Dibromochloromethane	11.359	129	66865	21.388	ug/l	99
54) 1,2-Dibromoethane	11.476	107	62525	20.718	ug/l	99
55) 2-Chloroethyl vinyl ether	10.165	63	192030	119.257	ug/l	98
56) Bromoform	12.582	173	42788	20.688	ug/l	100
58) 4-Methyl-2-Pentanone	10.447	43	414610	101.228	ug/l	100
59) 2-Hexanone	11.200	43	297475	99.000	ug/l	100
61) Tetrachloroethene	11.106	164	50868	21.098	ug/l	94
62) Toluene	10.635	91	276823	20.627	ug/l	99
64) Chlorobenzene	11.894	112	159798	20.530	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.964	131	63695	21.482	ug/l	94
66) Ethyl Benzene	11.964	91	275107	19.896	ug/l	98
67) m/p-Xylenes	12.076	106	213104	41.668	ug/l	94
68) o-Xylene	12.400	106	99578	20.367	ug/l	99
69) Styrene	12.417	104	161095	20.755	ug/l	97
70) Isopropylbenzene	12.700	105	253742	20.223	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	94138	21.100	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	81195m	20.041	ug/l	
73) Bromobenzene	12.982	156	60390	20.488	ug/l	99
74) n-propylbenzene	13.041	91	300221	20.552	ug/l	99
75) 2-Chlorotoluene	13.129	91	188879	20.799	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	211320	20.602	ug/l	97
77) t-1,4-Dichloro-2-butene	12.741	75	24673	19.953	ug/l	94
78) 4-Chlorotoluene	13.223	91	177737	20.714	ug/l	100
79) tert-butylbenzene	13.441	119	164741	19.976	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	208851	21.014	ug/l	99
81) sec-Butylbenzene	13.623	105	234741	20.276	ug/l	100
82) p-Isopropyltoluene	13.735	119	185979	20.251	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	102614	21.172	ug/l	100
84) 1,4-Dichlorobenzene	13.817	146	95741	20.605	ug/l	99
85) n-Butylbenzene	14.058	91	136752	19.059	ug/l	99
86) Hexachloroethane	14.335	117	38026	19.153	ug/l	97
87) 1,2-Dichlorobenzene	14.111	146	100353	20.831	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.723	75	13577	19.972	ug/l	96
89) 1,2,4-Trichlorobenzene	15.841	180	28968	17.060	ug/l	98
90) Hexachlorobutadiene	15.505	225	23607	19.627	ug/l	99
91) Naphthalene	15.647	128	62943	14.370	ug/l	98
92) 1,2,3-Trichlorobenzene	15.841	180	28968	17.060	ug/l	98

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

