

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051223\
 Data File : VN077667.D
 Acq On : 12 May 2023 12:13
 Operator : JC\MD
 Sample : VN0512WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0512WBSD01

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: May 15 01:36:47 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N050823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 09 05:58:09 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	104463	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	581877	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	532288	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	212936	28.345	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	94.467%
60) 4-Bromofluorobenzene	12.853	95	236076	27.893	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	92.967%
63) Toluene-d8	10.571	98	685706	27.892	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	92.967%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	108047	15.754	ug/l	99
3) Chloromethane	2.359	50	92486	17.744	ug/l	94
4) Vinyl Chloride	2.512	62	116585	14.536	ug/l	94
5) Bromomethane	2.959	94	92006	17.210	ug/l	98
6) Chloroethane	3.130	64	67066	12.799	ug/l #	84
7) Trichlorofluoromethane	3.512	101	180225	16.523	ug/l	100
8) Diethyl Ether	3.965	74	72078	20.966	ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.377	101	99913	16.970	ug/l	88
10) 1,1-Dichloroethene	4.353	96	98330	17.667	ug/l	86
11) Methyl Iodide	4.595	142	159149	18.385	ug/l	87
12) Methyl Acetate	5.018	43	159655	23.730	ug/l	95
13) Acrolein	4.177	56	97365	118.143	ug/l	100
14) Acrylonitrile	5.718	53	237433	116.015	ug/l	98
15) Acetone	4.424	58	67828	109.199	ug/l	97
16) Carbon Disulfide	4.724	76	213731	15.986	ug/l	97
17) Allyl chloride	5.030	41	104839	18.146	ug/l	98
18) Methylene Chloride	5.271	84	127808	18.894	ug/l	88
19) trans-1,2-Dichloroethene	5.795	96	107615	17.187	ug/l	94
20) Diisopropyl ether	6.671	45	278526	19.822	ug/l	90
21) 1,1-Dichloroethane	6.577	63	186799	18.123	ug/l	97
22) cis-1,2-Dichloroethene	7.494	96	136050	18.032	ug/l	90
23) tert-Butyl Alcohol	5.506	59	83719	104.423	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	360948	19.159	ug/l	98
25) Chloroform	7.965	83	225842	18.383	ug/l	93
26) Cyclohexane	8.265	56	133711	15.803	ug/l #	93
29) 1,1-Dichloropropene	8.377	75	141674	16.913	ug/l	94
30) 2-Butanone	7.477	43	291213	130.425	ug/l	96
31) 2,2-Dichloropropane	7.494	77	155321	15.915	ug/l #	80
32) 1,1,1-Trichloroethane	8.171	97	185509	17.111	ug/l	97
33) Carbon Tetrachloride	8.365	117	164056	17.894	ug/l	94
34) Benzene	8.606	78	468987	18.542	ug/l	94
35) Methacrylonitrile	7.777	41	65149	25.706	ug/l	95
36) 1,2-Dichloroethane	8.677	62	165012	19.568	ug/l	98
37) Trichloroethene	9.359	130	130017	19.885	ug/l	84
38) Methylcyclohexane	9.606	83	177859	16.490	ug/l	95
39) 1,2-Dichloropropane	9.624	63	108951	18.605	ug/l	91
40) Dibromomethane	9.712	93	88091	19.081	ug/l	81
41) Bromodichloromethane	9.888	83	168915	18.170	ug/l	98
42) Vinyl Acetate	6.606	43	778506	93.995	ug/l	96

05/15/2023
 Supervised By :Mahesh
 Kadoda

05/15/2023

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051223\
 Data File : VN077667.D
 Acq On : 12 May 2023 12:13
 Operator : JC\MD
 Sample : VN0512WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0512WBSD01

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: May 15 01:36:47 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N050823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 09 05:58:09 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	7.559	43	106488	22.192	ug/l	#	87
44) Isopropyl Acetate	8.688	43	190838	21.721	ug/l		92
45) 1,4-Dioxane	9.700	88	48156	440.931	ug/l		98
46) Methyl methacrylate	9.688	41	91126	23.094	ug/l		95
47) n-amyl Acetate	12.500	43	150071	19.832	ug/l		95
48) t-1,3-Dichloropropene	10.841	75	167302	17.851	ug/l		99
49) cis-1,3-Dichloropropene	10.318	75	187884	18.290	ug/l		99
50) 1,1,2-Trichloroethane	11.024	97	136153	20.479	ug/l		92
51) Ethyl methacrylate	10.877	69	170952	19.918	ug/l		93
52) 1,3-Dichloropropane	11.165	76	210433	19.575	ug/l		99
53) Dibromochloromethane	11.365	129	135190	19.544	ug/l		98
54) 1,2-Dibromoethane	11.471	107	137007	20.745	ug/l		97
55) 2-Chloroethyl vinyl ether	10.165	63	395684	101.951	ug/l		97
56) Bromoform	12.582	173	97825	24.035	ug/l		97
58) 4-Methyl-2-Pentanone	10.447	43	590827	120.532	ug/l		96
59) 2-Hexanone	11.200	43	422912	119.519	ug/l		96
61) Tetrachloroethene	11.106	164	109577	21.282	ug/l		94
62) Toluene	10.635	91	541072	18.360	ug/l		99
64) Chlorobenzene	11.894	112	348003	19.202	ug/l		96
65) 1,1,1,2-Tetrachloroethane	11.965	131	129865	19.863	ug/l		95
66) Ethyl Benzene	11.971	91	572324	17.527	ug/l		98
67) m/p-Xylenes	12.076	106	467887	36.420	ug/l		95
68) o-Xylene	12.406	106	230947	18.241	ug/l		91
69) Styrene	12.418	104	373173	18.433	ug/l		96
70) Isopropylbenzene	12.700	105	587973	17.880	ug/l		97
71) 1,1,2,2-Tetrachloroethane	12.941	83	179956	20.406	ug/l		97
72) 1,2,3-Trichloropropane	13.000	75	145980m	19.895	ug/l		
73) Bromobenzene	12.982	156	149818	21.788	ug/l		78
74) n-propylbenzene	13.041	91	626372	17.035	ug/l		95
75) 2-Chlorotoluene	13.129	91	396782	17.842	ug/l		94
76) 1,3,5-Trimethylbenzene	13.182	105	421748	16.228	ug/l		94
77) t-1,4-Dichloro-2-butene	12.747	75	42374	16.577	ug/l		95
78) 4-Chlorotoluene	13.229	91	385560	17.757	ug/l		94
79) tert-butylbenzene	13.447	119	431257	18.529	ug/l		91
80) 1,2,4-Trimethylbenzene	13.488	105	384175	15.232	ug/l		97
81) sec-Butylbenzene	13.623	105	574319	17.579	ug/l		95
82) p-Isopropyltoluene	13.735	119	448865	17.268	ug/l		97
83) 1,3-Dichlorobenzene	13.741	146	252365	19.764	ug/l		96
84) 1,4-Dichlorobenzene	13.818	146	249087	19.927	ug/l		97
85) n-Butylbenzene	14.065	91	307571	14.383	ug/l		97
86) Hexachloroethane	14.341	117	81207	16.763	ug/l		72
87) 1,2-Dichlorobenzene	14.112	146	252056	20.336	ug/l		95
88) 1,2-Dibromo-3-Chloropr...	14.723	75	28696	17.906	ug/l	#	72
89) 1,2,4-Trichlorobenzene	15.400	180	56770	13.294	ug/l		96
90) Hexachlorobutadiene	15.506	225	60932	25.304	ug/l		96
91) Naphthalene	15.647	128	165873	11.371	ug/l		96
92) 1,2,3-Trichlorobenzene	15.847	180	50570	12.859	ug/l		95

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

