

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111023\
 Data File : VN080043.D
 Acq On : 10 Nov 2023 10:20
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Quant Time: Nov 10 23:53:22 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N110823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Nov 09 04:02:05 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 11/13/2023
 Supervised By : Mahesh Dadoda 11/13/2023

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

Internal Standards						
1) Bromochloromethane	7.818	128	83123	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	427312	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	399659	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	207981	29.807	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.367%		
60) 4-Bromofluorobenzene	12.853	95	194944	30.502	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	101.667%		
63) Toluene-d8	10.571	98	587312	31.015	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	103.367%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	94824	17.496	ug/l	96
3) Chloromethane	2.359	50	101222	14.825	ug/l	96
4) Vinyl Chloride	2.512	62	75617	13.253	ug/l	100
5) Bromomethane	2.953	94	45095	14.435	ug/l	91
6) Chloroethane	3.118	64	57280	17.285	ug/l	95
7) Trichlorofluoromethane	3.500	101	159091	18.579	ug/l	95
8) Diethyl Ether	3.965	74	49605	16.137	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	85078	17.586	ug/l	94
10) 1,1-Dichloroethene	4.342	96	78103	18.250	ug/l	96
11) Methyl Iodide	4.595	142	88209	15.583	ug/l	94
12) Methyl Acetate	5.024	43	192483	17.348	ug/l	99
13) Acrolein	4.177	56	70213	74.898	ug/l	98
14) Acrylonitrile	5.718	53	230029	87.285	ug/l	97
15) Acetone	4.430	58	67432	75.778	ug/l	84
16) Carbon Disulfide	4.712	76	243083	16.634	ug/l	99
17) Allyl chloride	5.024	41	118196	15.805	ug/l	98
18) Methylene Chloride	5.277	84	101997	17.772	ug/l	96
19) trans-1,2-Dichloroethene	5.794	96	92702	17.475	ug/l	94
20) Diisopropyl ether	6.677	45	292901	16.760	ug/l	99
21) 1,1-Dichloroethane	6.571	63	184871	17.723	ug/l	97
22) cis-1,2-Dichloroethene	7.494	96	104292	16.942	ug/l	97
23) tert-Butyl Alcohol	5.518	59	63304m	88.992	ug/l	
24) Methyl tert-Butyl Ether	5.794	73	260005	16.500	ug/l	99
25) Chloroform	7.971	83	190502	17.692	ug/l	98
26) Cyclohexane	8.259	56	128646	15.676	ug/l #	99
29) 1,1-Dichloropropene	8.371	75	133496	18.203	ug/l	99
30) 2-Butanone	7.488	43	296987	84.795	ug/l	98
31) 2,2-Dichloropropane	7.494	77	146431	18.474	ug/l #	53
32) 1,1,1-Trichloroethane	8.171	97	161144	19.247	ug/l	99
33) Carbon Tetrachloride	8.365	117	139018	18.891	ug/l	97
34) Benzene	8.612	78	408506	18.751	ug/l	97
35) Methacrylonitrile	7.783	41	63646	17.333	ug/l	94
36) 1,2-Dichloroethane	8.677	62	150914	19.141	ug/l	99
37) Trichloroethene	9.359	130	95619	18.251	ug/l	99
38) Methylcyclohexane	9.606	83	113066	16.419	ug/l	95
39) 1,2-Dichloropropane	9.624	63	107283	18.605	ug/l	97
40) Dibromomethane	9.712	93	71638	19.220	ug/l	97
41) Bromodichloromethane	9.888	83	145562	18.856	ug/l	94
42) Vinyl Acetate	6.606	43	748938	86.088	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	125990	19.149	ug/l	93
44) Isopropyl Acetate	8.688	43	198669	18.531	ug/l	98
45) 1,4-Dioxane	9.694	88	32350	391.557	ug/l #	95
46) Methyl methacrylate	9.682	41	91590	17.772	ug/l	95
47) n-amyl Acetate	12.494	43	149670	17.380	ug/l	92
48) t-1,3-Dichloropropene	10.841	75	139065	17.639	ug/l	100
49) cis-1,3-Dichloropropene	10.318	75	158463	18.182	ug/l	92
50) 1,1,2-Trichloroethane	11.018	97	98997	19.471	ug/l	96
51) Ethyl methacrylate	10.876	69	125776	17.211	ug/l	97
52) 1,3-Dichloropropane	11.165	76	175384	19.294	ug/l	98
53) Dibromochloromethane	11.359	129	101587	18.677	ug/l	98
54) 1,2-Dibromoethane	11.471	107	96300	18.862	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	305753	90.966	ug/l	98
56) Bromoform	12.582	173	69193	19.413	ug/l	98
58) 4-Methyl-2-Pentanone	10.447	43	617583	92.495	ug/l	98
59) 2-Hexanone	11.200	43	444201	87.333	ug/l	99
61) Tetrachloroethene	11.106	164	85851	18.322	ug/l	96
62) Toluene	10.629	91	431141	18.652	ug/l	99
64) Chlorobenzene	11.894	112	251480	18.231	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.965	131	95269	18.828	ug/l	98
66) Ethyl Benzene	11.965	91	424855	17.491	ug/l	100
67) m/p-Xylenes	12.076	106	334835	37.026	ug/l	94
68) o-Xylene	12.400	106	154407	17.814	ug/l	100
69) Styrene	12.418	104	262260	18.278	ug/l	98
70) Isopropylbenzene	12.700	105	381229	17.632	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	140861	19.128	ug/l	98
72) 1,2,3-Trichloropropane	13.000	75	128563m	18.789	ug/l	
73) Bromobenzene	12.982	156	99039	18.632	ug/l	99
74) n-propylbenzene	13.041	91	464092	17.943	ug/l	99
75) 2-Chlorotoluene	13.129	91	298528	18.158	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	330669	18.491	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	39452	17.609	ug/l	96
78) 4-Chlorotoluene	13.223	91	297338	18.210	ug/l	98
79) tert-butylbenzene	13.441	119	247612	17.680	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	323855	18.469	ug/l	100
81) sec-Butylbenzene	13.617	105	350624	17.736	ug/l	99
82) p-Isopropyltoluene	13.735	119	288257	17.954	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	180204	18.605	ug/l	99
84) 1,4-Dichlorobenzene	13.817	146	169708	17.851	ug/l	98
85) n-Butylbenzene	14.059	91	226918	16.899	ug/l	99
86) Hexachloroethane	14.335	117	56969	18.247	ug/l	97
87) 1,2-Dichlorobenzene	14.112	146	171204	18.502	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	25100	18.638	ug/l	93
89) 1,2,4-Trichlorobenzene	15.841	180	69869	16.299	ug/l	97
90) Hexachlorobutadiene	15.506	225	36535	17.293	ug/l	98
91) Naphthalene	15.647	128	191573	13.926	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	69869	16.299	ug/l	97

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

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