

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082923\
 Data File : VN079081.D
 Acq On : 29 Aug 2023 09:21
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Quant Time: Aug 29 23:34:55 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N081723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 18 05:21:14 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

08/30/2023
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	7.818	128	39746	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	215097	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	197311	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	95435	29.638	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.800%		
60) 4-Bromofluorobenzene	12.853	95	85676	29.767	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.233%		
63) Toluene-d8	10.571	98	281584	30.560	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.867%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	46022	18.350	ug/l	98
3) Chloromethane	2.365	50	54095	17.997	ug/l	92
4) Vinyl Chloride	2.518	62	56148	18.874	ug/l	99
5) Bromomethane	2.954	94	35373	19.263	ug/l	95
6) Chloroethane	3.124	64	40191	20.790	ug/l	97
7) Trichlorofluoromethane	3.501	101	77187	19.264	ug/l	95
8) Diethyl Ether	3.959	74	26689	17.710	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	42443m	20.282	ug/l	
10) 1,1-Dichloroethene	4.342	96	41703	19.809	ug/l	95
11) Methyl Iodide	4.595	142	50675	19.947	ug/l	98
12) Methyl Acetate	5.030	43	89177	18.071	ug/l	99
13) Acrolein	4.183	56	31891	92.721	ug/l	92
14) Acrylonitrile	5.724	53	121017	93.292	ug/l #	91
15) Acetone	4.430	58	39370	98.939	ug/l	96
16) Carbon Disulfide	4.718	76	111466	18.427	ug/l	100
17) Allyl chloride	5.024	41	69906	18.116	ug/l	96
18) Methylene Chloride	5.283	84	51203	20.344	ug/l #	94
19) trans-1,2-Dichloroethene	5.795	96	45536	19.218	ug/l	97
20) Diisopropyl ether	6.677	45	168611	20.088	ug/l #	88
21) 1,1-Dichloroethane	6.565	63	92909	19.947	ug/l	95
22) cis-1,2-Dichloroethene	7.494	96	49683	18.321	ug/l	96
23) tert-Butyl Alcohol	5.530	59	43056	88.983	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	140340	18.779	ug/l	99
25) Chloroform	7.971	83	90710	19.332	ug/l	98
26) Cyclohexane	8.265	56	60801	17.845	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	62362	19.059	ug/l	97
30) 2-Butanone	7.489	43	170834	89.184	ug/l	98
31) 2,2-Dichloropropane	7.489	77	74229	20.526	ug/l #	78
32) 1,1,1-Trichloroethane	8.171	97	75426	19.308	ug/l	97
33) Carbon Tetrachloride	8.371	117	65476	19.350	ug/l	96
34) Benzene	8.612	78	191286	19.508	ug/l	99
35) Methacrylonitrile	7.777	41	35764	17.518	ug/l	89
36) 1,2-Dichloroethane	8.677	62	73425	19.996	ug/l	97
37) Trichloroethene	9.359	130	47085	19.291	ug/l	96
38) Methylcyclohexane	9.600	83	53497	18.571	ug/l	93
39) 1,2-Dichloropropane	9.630	63	51137	19.361	ug/l	100
40) Dibromomethane	9.712	93	34011	19.210	ug/l	96
41) Bromodichloromethane	9.894	83	71800	20.166	ug/l	96
42) Vinyl Acetate	6.612	43	506933	93.865	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	70946m	19.091	ug/l	
44) Isopropyl Acetate	8.694	43	113614	17.351	ug/l	99
45) 1,4-Dioxane	9.700	88	16690	338.715	ug/l	98
46) Methyl methacrylate	9.682	41	51870	17.979	ug/l	92
47) n-amyl Acetate	12.500	43	86830	17.280	ug/l	94
48) t-1,3-Dichloropropene	10.835	75	70133	18.495	ug/l	95
49) cis-1,3-Dichloropropene	10.318	75	76962	18.927	ug/l	91
50) 1,1,2-Trichloroethane	11.018	97	46781	19.553	ug/l	91
51) Ethyl methacrylate	10.877	69	64565	17.435	ug/l	94
52) 1,3-Dichloropropane	11.165	76	83874	19.572	ug/l	99
53) Dibromochloromethane	11.365	129	51651	19.725	ug/l	95
54) 1,2-Dibromoethane	11.471	107	46706	19.015	ug/l	95
55) 2-Chloroethyl vinyl ether	10.165	63	141493	82.666	ug/l	98
56) Bromoform	12.576	173	35451	19.188	ug/l	95
58) 4-Methyl-2-Pentanone	10.447	43	340678	87.025	ug/l	99
59) 2-Hexanone	11.200	43	243900	85.035	ug/l	99
61) Tetrachloroethene	11.106	164	39438	20.643	ug/l	91
62) Toluene	10.635	91	210706	19.560	ug/l	99
64) Chlorobenzene	11.894	112	121479	18.756	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.965	131	46444	18.754	ug/l	93
66) Ethyl Benzene	11.965	91	207680	18.431	ug/l	99
67) m/p-Xylenes	12.076	106	161909	38.538	ug/l	99
68) o-Xylene	12.400	106	75758	18.288	ug/l	99
69) Styrene	12.418	104	123670	18.373	ug/l	97
70) Isopropylbenzene	12.700	105	191764	19.106	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	68683	18.254	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	55122m	17.858	ug/l	
73) Bromobenzene	12.982	156	46979	18.385	ug/l	96
74) n-propylbenzene	13.041	91	224471	19.733	ug/l	99
75) 2-Chlorotoluene	13.129	91	140723	19.500	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	159772	20.081	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	17500	15.256	ug/l	95
78) 4-Chlorotoluene	13.223	91	130966	18.943	ug/l	100
79) tert-butylbenzene	13.441	119	125674	18.692	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	158678	20.282	ug/l	97
81) sec-Butylbenzene	13.618	105	176118	19.848	ug/l	97
82) p-Isopropyltoluene	13.735	119	142909	19.726	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	81530	19.771	ug/l	94
84) 1,4-Dichlorobenzene	13.812	146	74431	18.384	ug/l	97
85) n-Butylbenzene	14.059	91	109208	19.166	ug/l	98
86) Hexachloroethane	14.335	117	29677	20.020	ug/l	89
87) 1,2-Dichlorobenzene	14.106	146	78237	18.523	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	10743	15.908	ug/l	90
89) 1,2,4-Trichlorobenzene	15.841	180	24714	14.816	ug/l	90
90) Hexachlorobutadiene	15.506	225	17470	20.116	ug/l	99
91) Naphthalene	15.641	128	60791	12.636	ug/l	98
92) 1,2,3-Trichlorobenzene	15.841	180	24714	14.816	ug/l	90

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

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