

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082923\
 Data File : VN079106.D
 Acq On : 29 Aug 2023 20:08
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Quant Time: Aug 30 00:04:26 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 09/01/2023

Supervised By : Mahesh
 Dadoda
 09/01/2023

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

Internal Standards						
1) Bromochloromethane	7.818	128	35926	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	198832	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	178367	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	89940	30.901	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.000%			
60) 4-Bromofluorobenzene	12.853	95	79125	30.411	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.367%			
63) Toluene-d8	10.571	98	262566	31.522	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 105.067%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	45821	20.212	ug/l	94
3) Chloromethane	2.365	50	53522	19.700	ug/l	94
4) Vinyl Chloride	2.512	62	57541	21.399	ug/l	95
5) Bromomethane	2.954	94	33418	20.134	ug/l	98
6) Chloroethane	3.118	64	40168	22.987	ug/l	90
7) Trichlorofluoromethane	3.489	101	73884	20.400	ug/l	93
8) Diethyl Ether	3.965	74	24872	18.259	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.371	101	38229	20.211	ug/l	96
10) 1,1-Dichloroethene	4.336	96	36924	19.404	ug/l #	94
11) Methyl Iodide	4.595	142	45831	19.958	ug/l	97
12) Methyl Acetate	5.036	43	95145	21.331	ug/l	100
13) Acrolein	4.265	56	174	0.560	ug/l	93
14) Acrylonitrile	5.724	53	127614	108.838	ug/l #	92
15) Acetone	4.430	58	31682	88.085	ug/l	98
16) Carbon Disulfide	4.706	76	98853	18.079	ug/l #	94
17) Allyl chloride	5.024	41	63700	18.263	ug/l	98
18) Methylene Chloride	5.289	84	46206	20.311	ug/l	87
19) trans-1,2-Dichloroethene	5.789	96	24732	11.548	ug/l	96
20) Diisopropyl ether	6.677	45	157952	20.819	ug/l #	88
21) 1,1-Dichloroethane	6.571	63	88636	21.053	ug/l	96
22) cis-1,2-Dichloroethene	7.500	96	53563	21.851	ug/l	91
23) tert-Butyl Alcohol	5.536	59	44966	102.812	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	134925	19.974	ug/l	98
25) Chloroform	7.977	83	89463	21.094	ug/l	97
26) Cyclohexane	8.265	56	64647	20.992	ug/l #	98
29) 1,1-Dichloropropene	8.371	75	61875	20.457	ug/l	98
30) 2-Butanone	7.494	43	179128	101.164	ug/l	100
31) 2,2-Dichloropropane	7.494	77	56174	16.804	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	74474	20.623	ug/l	96
33) Carbon Tetrachloride	8.365	117	66670	21.314	ug/l	96
34) Benzene	8.612	78	189842	20.944	ug/l	98
35) Methacrylonitrile	7.789	41	37732	19.993	ug/l	85
36) 1,2-Dichloroethane	8.677	62	70682	20.824	ug/l	98
37) Trichloroethene	9.359	130	44623	19.778	ug/l	89
38) Methylcyclohexane	9.606	83	55450	20.823	ug/l	97
39) 1,2-Dichloropropane	9.624	63	52618	21.551	ug/l	94
40) Dibromomethane	9.712	93	36136	22.080	ug/l	96
41) Bromodichloromethane	9.894	83	70340	21.372	ug/l #	93
42) Vinyl Acetate	6.612	43	513687	102.896	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	68265	19.872	ug/l #	93
44) Isopropyl Acetate	8.694	43	142372	23.522	ug/l	95
45) 1,4-Dioxane	9.700	88	19986	438.785	ug/l	95
46) Methyl methacrylate	9.688	41	55347	20.754	ug/l	90
47) n-amyl Acetate	12.500	43	91568	19.714	ug/l	98
48) t-1,3-Dichloropropene	10.841	75	69072	19.705	ug/l	95
49) cis-1,3-Dichloropropene	10.318	75	77215	20.543	ug/l	99
50) 1,1,2-Trichloroethane	11.024	97	49137	22.218	ug/l	98
51) Ethyl methacrylate	10.882	69	71747	20.960	ug/l	99
52) 1,3-Dichloropropane	11.171	76	82666	20.869	ug/l	98
53) Dibromochloromethane	11.365	129	50950	21.048	ug/l	100
54) 1,2-Dibromoethane	11.477	107	47876	21.085	ug/l	95
55) 2-Chloroethyl vinyl ether	10.165	63	155751	98.440	ug/l	99
56) Bromoform	12.582	173	34944	20.461	ug/l #	97
58) 4-Methyl-2-Pentanone	10.453	43	382254	108.016	ug/l	98
59) 2-Hexanone	11.200	43	279391	107.754	ug/l	99
61) Tetrachloroethene	11.112	164	38060	22.038	ug/l	95
62) Toluene	10.635	91	203464	20.894	ug/l	97
64) Chlorobenzene	11.900	112	120971	20.661	ug/l	89
65) 1,1,1,2-Tetrachloroethane	11.965	131	47299	21.127	ug/l	97
66) Ethyl Benzene	11.971	91	208510	20.470	ug/l	96
67) m/p-Xylenes	12.076	106	156777	41.280	ug/l	95
68) o-Xylene	12.400	106	78596	20.988	ug/l	96
69) Styrene	12.418	104	127876	21.016	ug/l	98
70) Isopropylbenzene	12.700	105	193330	21.307	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.941	83	76976	22.631	ug/l	98
72) 1,2,3-Trichloropropane	13.000	75	67075m	24.038	ug/l	
73) Bromobenzene	12.988	156	46844	20.279	ug/l	96
74) n-propylbenzene	13.041	91	224746	21.856	ug/l	98
75) 2-Chlorotoluene	13.129	91	139694	21.414	ug/l	97
76) 1,3,5-Trimethylbenzene	13.176	105	163623	22.749	ug/l	95
77) t-1,4-Dichloro-2-butene	12.741	75	19193	18.509	ug/l	86
78) 4-Chlorotoluene	13.223	91	133032	21.286	ug/l	98
79) tert-butylbenzene	13.447	119	133093	21.898	ug/l	97
80) 1,2,4-Trimethylbenzene	13.488	105	157882	22.323	ug/l	99
81) sec-Butylbenzene	13.623	105	182856	22.796	ug/l	98
82) p-Isopropyltoluene	13.735	119	145743	22.254	ug/l	98
83) 1,3-Dichlorobenzene	13.741	146	82112	22.027	ug/l	94
84) 1,4-Dichlorobenzene	13.818	146	75242	20.558	ug/l	99
85) n-Butylbenzene	14.065	91	109609	21.280	ug/l	99
86) Hexachloroethane	14.335	117	31170	23.261	ug/l	95
87) 1,2-Dichlorobenzene	14.112	146	83616	21.899	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.723	75	12734	20.859	ug/l	91
89) 1,2,4-Trichlorobenzene	15.847	180	29965	19.872	ug/l	99
90) Hexachlorobutadiene	15.506	225	16947	21.587	ug/l	95
91) Naphthalene	15.647	128	73401	16.877	ug/l	98
92) 1,2,3-Trichlorobenzene	15.847	180	29965	19.872	ug/l	99

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

