

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082824\
 Data File : VN083530.D
 Acq On : 28 Aug 2024 12:34
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN082824

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/29/2024
 Supervised By : Mahesh Dadoda 08/29/2024

Quant Time: Aug 28 15:34:43 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N082824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 28 12:23:16 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	29838	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	178579	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	158006	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	83058	30.970	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.233%			
60) 4-Bromofluorobenzene	12.847	95	85051	30.404	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.333%			
63) Toluene-d8	10.565	98	220318	30.203	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.667%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	40742	20.332	ug/l	93
3) Chloromethane	2.359	50	39755	19.294	ug/l	98
4) Vinyl Chloride	2.512	62	41623	19.237	ug/l	93
5) Bromomethane	2.900	94	21941	20.817	ug/l	93
6) Chloroethane	3.083	64	27434	19.355	ug/l	94
7) Trichlorofluoromethane	3.471	101	70997	19.854	ug/l	94
8) Diethyl Ether	3.947	74	24795	19.739	ug/l	85
9) 1,1,2-Trichlorotrifluo...	4.359	101	38249	19.359	ug/l	94
10) 1,1-Dichloroethene	4.330	96	36381	19.450	ug/l #	81
11) Methyl Iodide	4.583	142	50451	19.597	ug/l	94
12) Methyl Acetate	5.018	43	65511	20.405	ug/l #	80
13) Acrolein	4.177	56	26735	86.341	ug/l #	54
14) Acrylonitrile	5.718	53	98572	98.872	ug/l	96
15) Acetone	4.424	58	27337	92.674	ug/l	84
16) Carbon Disulfide	4.700	76	93418	18.536	ug/l	99
17) Allyl chloride	5.012	41	62989	18.238	ug/l	87
18) Methylene Chloride	5.265	84	41878	20.187	ug/l	87
19) trans-1,2-Dichloroethene	5.783	96	36609	18.987	ug/l	97
20) Diisopropyl ether	6.671	45	132008	19.655	ug/l	96
21) 1,1-Dichloroethane	6.565	63	73664	19.427	ug/l	93
22) cis-1,2-Dichloroethene	7.488	96	47610	19.961	ug/l	94
23) tert-Butyl Alcohol	5.530	59	43587	103.622	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	138950	20.058	ug/l #	88
25) Chloroform	7.965	83	79670	19.816	ug/l	97
26) Cyclohexane	8.253	56	63218	19.178	ug/l #	89
29) 1,1-Dichloropropene	8.371	75	52158	18.617	ug/l	98
30) 2-Butanone	7.482	43	140320	97.629	ug/l	94
31) 2,2-Dichloropropane	7.488	77	70751	19.476	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	74610	19.927	ug/l	99
33) Carbon Tetrachloride	8.359	117	63960	19.618	ug/l	98
34) Benzene	8.606	78	166979	19.641	ug/l	97
35) Methacrylonitrile	7.777	41	33523	20.158	ug/l	94
36) 1,2-Dichloroethane	8.671	62	62615	19.753	ug/l	95
37) Trichloroethene	9.353	130	38917	19.316	ug/l	99
38) Methylcyclohexane	9.600	83	66091	19.236	ug/l	97
39) 1,2-Dichloropropane	9.618	63	39998	19.351	ug/l	96
40) Dibromomethane	9.712	93	29103	19.615	ug/l	94
41) Bromodichloromethane	9.888	83	62351	19.444	ug/l	97
42) Vinyl Acetate	6.600	43	688039	97.547	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	54156	19.618	ug/l	95
44) Isopropyl Acetate	8.688	43	151636m	23.251	ug/l	
45) 1,4-Dioxane	9.694	88	17659m	417.556	ug/l	
46) Methyl methacrylate	9.682	41	48356	20.066	ug/l	81
47) n-amyl Acetate	12.494	43	85877	19.134	ug/l	92
48) t-1,3-Dichloropropene	10.835	75	64019	18.826	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	67535	19.052	ug/l #	83
50) 1,1,2-Trichloroethane	11.018	97	39023	19.624	ug/l	98
51) Ethyl methacrylate	10.876	69	67832	19.560	ug/l	77
52) 1,3-Dichloropropane	11.165	76	68140	19.625	ug/l	99
53) Dibromochloromethane	11.359	129	45194	19.400	ug/l	100
54) 1,2-Dibromoethane	11.470	107	39751	19.511	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	133985	90.753	ug/l	99
56) Bromoform	12.582	173	29124	19.148	ug/l #	96
58) 4-Methyl-2-Pentanone	10.447	43	291595	104.055	ug/l #	89
59) 2-Hexanone	11.194	43	217405	101.161	ug/l	90
61) Tetrachloroethene	11.106	164	32769	19.528	ug/l	91
62) Toluene	10.629	91	177441	19.414	ug/l	100
64) Chlorobenzene	11.894	112	110839	19.575	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.959	131	38978	19.341	ug/l	95
66) Ethyl Benzene	11.965	91	197047	19.110	ug/l	96
67) m/p-Xylenes	12.070	106	147597	38.621	ug/l	98
68) o-Xylene	12.400	106	73660	19.628	ug/l	98
69) Styrene	12.412	104	121103	18.953	ug/l	98
70) Isopropylbenzene	12.694	105	191577	19.326	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	58564	20.225	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	51725m	20.688	ug/l	
73) Bromobenzene	12.982	156	43940	19.585	ug/l	93
74) n-propylbenzene	13.035	91	218152	18.994	ug/l	100
75) 2-Chlorotoluene	13.123	91	140796	19.154	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	163364	19.742	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	20580	18.968	ug/l	88
78) 4-Chlorotoluene	13.223	91	139367	19.100	ug/l	100
79) tert-butylbenzene	13.441	119	145072	19.574	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	165012	19.560	ug/l	99
81) sec-Butylbenzene	13.617	105	190910	19.134	ug/l	100
82) p-Isopropyltoluene	13.729	119	159534	18.887	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	81267	18.544	ug/l	99
84) 1,4-Dichlorobenzene	13.811	146	78701	17.880	ug/l	99
85) n-Butylbenzene	14.059	91	137531	18.372	ug/l	99
86) Hexachloroethane	14.335	117	31727	19.178	ug/l	87
87) 1,2-Dichlorobenzene	14.106	146	80002	18.544	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	13645	20.610	ug/l	86
89) 1,2,4-Trichlorobenzene	15.841	180	41676	17.621	ug/l	100
90) Hexachlorobutadiene	15.505	225	18251	18.162	ug/l	99
91) Naphthalene	15.641	128	143825	17.593	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	41676	17.621	ug/l	100

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

