

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020924\
 Data File : VN080995.D
 Acq On : 09 Feb 2024 17:43
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/12/2024
 Supervised By : Mahesh Dadoda 02/12/2024

Quant Time: Feb 10 02:05:16 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 10 01:52:21 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	73066	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	417507	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	457294	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	168850	30.755	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.500%			
60) 4-Bromofluorobenzene	12.853	95	207111	29.625	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.767%			
63) Toluene-d8	10.571	98	541945	26.408	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 88.033%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	101442	20.419	ug/l	98
3) Chloromethane	2.360	50	104027	20.836	ug/l	98
4) Vinyl Chloride	2.512	62	122955	20.656	ug/l	98
5) Bromomethane	2.965	94	79916	19.988	ug/l	96
6) Chloroethane	3.124	64	82932	21.373	ug/l	99
7) Trichlorofluoromethane	3.495	101	151313	19.304	ug/l	95
8) Diethyl Ether	3.965	74	50883	18.469	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	82710	19.442	ug/l	94
10) 1,1-Dichloroethene	4.342	96	78637	18.860	ug/l	97
11) Methyl Iodide	4.595	142	77458m	17.346	ug/l	
12) Methyl Acetate	5.030	43	70407m	18.634	ug/l	
13) Acrolein	4.183	56	78727	95.545	ug/l	99
14) Acrylonitrile	5.718	53	178978	95.392	ug/l	98
15) Acetone	4.424	58	42365m	98.153	ug/l	
16) Carbon Disulfide	4.718	76	206615	18.056	ug/l	99
17) Allyl chloride	5.024	41	96229	18.376	ug/l	89
18) Methylene Chloride	5.283	84	94222	19.774	ug/l	96
19) trans-1,2-Dichloroethene	5.789	96	87618	18.510	ug/l	95
20) Diisopropyl ether	6.671	45	245907	19.538	ug/l	94
21) 1,1-Dichloroethane	6.571	63	156569	19.411	ug/l	99
22) cis-1,2-Dichloroethene	7.489	96	104528	19.005	ug/l	96
23) tert-Butyl Alcohol	5.524	59	52118	76.252	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	265053	19.175	ug/l	93
25) Chloroform	7.965	83	176010	19.669	ug/l	97
26) Cyclohexane	8.259	56	112520	18.526	ug/l #	80
29) 1,1-Dichloropropene	8.377	75	125910	20.246	ug/l	99
30) 2-Butanone	7.483	43	220255	96.529	ug/l #	98
31) 2,2-Dichloropropane	7.494	77	139918	19.760	ug/l	99
32) 1,1,1-Trichloroethane	8.171	97	156327	19.982	ug/l	99
33) Carbon Tetrachloride	8.365	117	126945	19.259	ug/l	99
34) Benzene	8.606	78	383394	20.174	ug/l	97
35) Methacrylonitrile	7.777	41	52578	19.605	ug/l	92
36) 1,2-Dichloroethane	8.671	62	132407	20.760	ug/l	97
37) Trichloroethene	9.353	130	98008	19.397	ug/l	99
38) Methylcyclohexane	9.606	83	120632	19.437	ug/l	97
39) 1,2-Dichloropropane	9.630	63	90002	19.966	ug/l	98
40) Dibromomethane	9.712	93	67625	19.718	ug/l	94
41) Bromodichloromethane	9.888	83	135956	20.255	ug/l	96
42) Vinyl Acetate	6.606	43	933298	95.625	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	93083	19.586	ug/l	97
44) Isopropyl Acetate	8.688	43	170349	19.949	ug/l	94
45) 1,4-Dioxane	9.694	88	25939	320.286	ug/l #	90
46) Methyl methacrylate	9.683	41	76236	19.511	ug/l	85
47) n-amyl Acetate	12.494	43	162234	21.785	ug/l	96
48) t-1,3-Dichloropropene	10.841	75	134472	19.116	ug/l	99
49) cis-1,3-Dichloropropene	10.312	75	147348	19.331	ug/l	95
50) 1,1,2-Trichloroethane	11.018	97	93543	19.712	ug/l	95
51) Ethyl methacrylate	10.877	69	127818	19.272	ug/l	88
52) 1,3-Dichloropropane	11.165	76	157075	20.045	ug/l	100
53) Dibromochloromethane	11.359	129	112767	21.803	ug/l	98
54) 1,2-Dibromoethane	11.471	107	113805	23.181	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	354908	104.422	ug/l	99
56) Bromoform	12.582	173	76156	23.119	ug/l	97
58) 4-Methyl-2-Pentanone	10.447	43	500309	84.270	ug/l	93
59) 2-Hexanone	11.200	43	360389	82.533	ug/l	93
61) Tetrachloroethene	11.106	164	87334	16.719	ug/l	96
62) Toluene	10.635	91	419343	16.740	ug/l	100
64) Chlorobenzene	11.894	112	292886	19.090	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.965	131	112030	19.686	ug/l	96
66) Ethyl Benzene	11.965	91	492052	18.682	ug/l	95
67) m/p-Xylenes	12.077	106	397482	38.428	ug/l	92
68) o-Xylene	12.400	106	197962	19.530	ug/l	93
69) Styrene	12.418	104	331642	19.873	ug/l	94
70) Isopropylbenzene	12.700	105	484897	19.629	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	139282	18.285	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	107704m	18.062	ug/l	
73) Bromobenzene	12.982	156	114846	18.695	ug/l	90
74) n-propylbenzene	13.041	91	476332	16.966	ug/l	96
75) 2-Chlorotoluene	13.129	91	293593	16.846	ug/l	96
76) 1,3,5-Trimethylbenzene	13.176	105	341539	16.897	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	35826	15.877	ug/l	95
78) 4-Chlorotoluene	13.224	91	292909	16.780	ug/l	95
79) tert-butylbenzene	13.441	119	274400	16.354	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	339952	16.880	ug/l	100
81) sec-Butylbenzene	13.618	105	389844	16.592	ug/l	99
82) p-Isopropyltoluene	13.735	119	321976	16.323	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	183716	16.628	ug/l	95
84) 1,4-Dichlorobenzene	13.818	146	182095	16.419	ug/l	98
85) n-Butylbenzene	14.059	91	271568	16.685	ug/l	100
86) Hexachloroethane	14.335	117	48596	15.619	ug/l	85
87) 1,2-Dichlorobenzene	14.112	146	179547	16.691	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.729	75	22022	16.017	ug/l	97
89) 1,2,4-Trichlorobenzene	15.847	180	86437	16.425	ug/l	97
90) Hexachlorobutadiene	15.506	225	38446	16.652	ug/l	96
91) Naphthalene	15.647	128	294487	15.760	ug/l	99
92) 1,2,3-Trichlorobenzene	15.847	180	86437	16.425	ug/l	97

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

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