

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021723\
 Data File : VN076729.D
 Acq On : 17 Feb 2023 12:29
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/21/2023
 Supervised By : Mahesh Dadoda 02/21/2023

Quant Time: Feb 18 02:04:12 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N021523W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Feb 16 01:08:46 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.825	128	30186	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	215084	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.872	117	236982	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.589	65	86890	31.472	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.900%			
60) 4-Bromofluorobenzene	12.854	95	130086	31.034	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.433%			
63) Toluene-d8	10.572	98	252289	30.394	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	66891	20.940	ug/l	97
3) Chloromethane	2.378	50	80230	20.454	ug/l	99
4) Vinyl Chloride	2.525	62	89291	21.328	ug/l	90
5) Bromomethane	2.960	94	56557	19.567	ug/l	85
6) Chloroethane	3.125	64	59526	21.925	ug/l	94
7) Trichlorofluoromethane	3.502	101	105289	20.174	ug/l	99
8) Diethyl Ether	3.972	74	42435	20.493	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.390	101	63954	20.163	ug/l	97
10) 1,1-Dichloroethene	4.349	96	58602	19.672	ug/l	99
11) Methyl Iodide	4.601	142	85112	22.896	ug/l	83
12) Methyl Acetate	5.037	43	130268	21.330	ug/l #	84
13) Acrolein	4.196	56	70719	97.497	ug/l	100
14) Acrylonitrile	5.731	53	198611	105.967	ug/l	91
15) Acetone	4.437	58	64793	106.773	ug/l	99
16) Carbon Disulfide	4.725	76	161838	19.368	ug/l	100
17) Allyl chloride	5.037	41	104425	19.584	ug/l	93
18) Methylene Chloride	5.284	84	76678	20.392	ug/l	87
19) trans-1,2-Dichloroethene	5.796	96	67514	20.208	ug/l	86
20) Diisopropyl ether	6.684	45	257377	20.413	ug/l #	88
21) 1,1-Dichloroethane	6.578	63	134304	20.363	ug/l	97
22) cis-1,2-Dichloroethene	7.495	96	81075	21.151	ug/l	96
23) tert-Butyl Alcohol	5.531	59	57930m	106.946	ug/l	
24) Methyl tert-Butyl Ether	5.813	73	214804	20.840	ug/l	99
25) Chloroform	7.978	83	135816	20.999	ug/l	100
26) Cyclohexane	8.260	56	121137	20.550	ug/l #	97
29) 1,1-Dichloropropene	8.384	75	98131	20.001	ug/l	99
30) 2-Butanone	7.495	43	300720	105.081	ug/l	97
31) 2,2-Dichloropropane	7.495	77	103931	20.269	ug/l #	63
32) 1,1,1-Trichloroethane	8.178	97	111591	19.592	ug/l	98
33) Carbon Tetrachloride	8.372	117	94487	19.146	ug/l	84
34) Benzene	8.613	78	312435	19.947	ug/l	94
35) Methacrylonitrile	7.790	41	59727	19.133	ug/l	99
36) 1,2-Dichloroethane	8.684	62	110112	21.003	ug/l	99
37) Trichloroethene	9.354	130	71034	19.501	ug/l	98
38) Methylcyclohexane	9.607	83	120740	19.556	ug/l	97
39) 1,2-Dichloropropane	9.625	63	84603	20.784	ug/l #	88
40) Dibromomethane	9.713	93	52648	20.280	ug/l	95
41) Bromodichloromethane	9.889	83	102814	19.744	ug/l	100
42) Vinyl Acetate	6.619	43	833112	100.451	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	107262	19.673	ug/l #	81
44) Isopropyl Acetate	8.695	43	187650	20.908	ug/l	98
45) 1,4-Dioxane	9.701	88	31866	419.502	ug/l	96
46) Methyl methacrylate	9.684	41	88306	21.434	ug/l	97
47) n-amyl Acetate	12.501	43	161923	20.430	ug/l	97
48) t-1,3-Dichloropropene	10.836	75	104459	19.778	ug/l	95
49) cis-1,3-Dichloropropene	10.319	75	118071	19.641	ug/l	97
50) 1,1,2-Trichloroethane	11.019	97	74547	19.753	ug/l	96
51) Ethyl methacrylate	10.878	69	112792	20.586	ug/l	96
52) 1,3-Dichloropropane	11.166	76	131301	20.237	ug/l	100
53) Dibromochloromethane	11.366	129	75559	19.491	ug/l	97
54) 1,2-Dibromoethane	11.472	107	72423	19.713	ug/l	97
55) 2-Chloroethyl vinyl ether	10.166	63	238347	98.124	ug/l	98
56) Bromoform	12.583	173	49813	18.658	ug/l #	95
58) 4-Methyl-2-Pentanone	10.448	43	604675	107.282	ug/l	99
59) 2-Hexanone	11.201	43	459262	109.546	ug/l	99
61) Tetrachloroethene	11.107	164	57464	19.202	ug/l	93
62) Toluene	10.636	91	338589	20.444	ug/l	99
64) Chlorobenzene	11.895	112	198322	20.100	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.966	131	71333	19.721	ug/l	96
66) Ethyl Benzene	11.966	91	361550	20.535	ug/l	96
67) m/p-Xylenes	12.072	106	284192	41.276	ug/l	98
68) o-Xylene	12.401	106	140859	20.761	ug/l	97
69) Styrene	12.413	104	228488	20.976	ug/l	100
70) Isopropylbenzene	12.701	105	355481	20.537	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.942	83	121720	21.494	ug/l	99
72) 1,2,3-Trichloropropane	12.995	75	105262m	21.101	ug/l	
73) Bromobenzene	12.983	156	79886	19.889	ug/l	92
74) n-propylbenzene	13.042	91	432673	20.987	ug/l	99
75) 2-Chlorotoluene	13.130	91	260381	21.225	ug/l	99
76) 1,3,5-Trimethylbenzene	13.177	105	308634	21.379	ug/l	97
77) t-1,4-Dichloro-2-butene	12.742	75	32119	20.040	ug/l	97
78) 4-Chlorotoluene	13.224	91	247463	21.042	ug/l	99
79) tert-butylbenzene	13.442	119	275048	21.519	ug/l	99
80) 1,2,4-Trimethylbenzene	13.489	105	313469	21.868	ug/l	99
81) sec-Butylbenzene	13.619	105	392164	21.365	ug/l	100
82) p-Isopropyltoluene	13.736	119	316866	21.293	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	159803	20.823	ug/l	99
84) 1,4-Dichlorobenzene	13.813	146	157322	21.017	ug/l	99
85) n-Butylbenzene	14.060	91	265090	21.018	ug/l	98
86) Hexachloroethane	14.336	117	55909	19.407	ug/l	97
87) 1,2-Dichlorobenzene	14.107	146	159244	20.636	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.724	75	21458	20.441	ug/l	95
89) 1,2,4-Trichlorobenzene	15.395	180	75780	19.250	ug/l	98
90) Hexachlorobutadiene	15.507	225	36059	19.014	ug/l	95
91) Naphthalene	15.648	128	243104	19.206	ug/l	99
92) 1,2,3-Trichlorobenzene	15.842	180	77275	19.340	ug/l	97

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

