

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031623\
 Data File : VN077023.D
 Acq On : 16 Mar 2023 16:46
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/17/2023
 Supervised By : Mahesh Dadoda 03/17/2023

Quant Time: Mar 17 03:24:41 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N030823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 09 04:16:54 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.819	128	38996	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	289347	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	310281	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	116604	32.532	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 108.433%			
60) 4-Bromofluorobenzene	12.854	95	176647	30.080	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.267%			
63) Toluene-d8	10.572	98	336578	30.841	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.800%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	85880	17.210	ug/l	96
3) Chloromethane	2.372	50	71442	15.663	ug/l	98
4) Vinyl Chloride	2.525	62	79024	19.000	ug/l	94
5) Bromomethane	2.972	94	51170	19.238	ug/l	97
6) Chloroethane	3.137	64	46892	19.186	ug/l	98
7) Trichlorofluoromethane	3.513	101	168693	21.711	ug/l	100
8) Diethyl Ether	3.978	74	64567	22.158	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.390	101	97312	22.107	ug/l	99
10) 1,1-Dichloroethene	4.354	96	92626	21.680	ug/l	98
11) Methyl Iodide	4.601	142	116920	22.711	ug/l	89
12) Methyl Acetate	5.037	43	174067	24.771	ug/l	97
13) Acrolein	4.190	56	101891	98.079	ug/l	97
14) Acrylonitrile	5.725	53	274257	118.476	ug/l	99
15) Acetone	4.437	58	71333	113.228	ug/l	99
16) Carbon Disulfide	4.725	76	264523	22.329	ug/l	97
17) Allyl chloride	5.037	41	159475m	24.886	ug/l	
18) Methylene Chloride	5.290	84	108966	21.804	ug/l	93
19) trans-1,2-Dichloroethene	5.801	96	99665	22.138	ug/l	96
20) Diisopropyl ether	6.678	45	364452	25.210	ug/l	95
21) 1,1-Dichloroethane	6.578	63	205420	23.878	ug/l	98
22) cis-1,2-Dichloroethene	7.495	96	115852	22.456	ug/l	98
23) tert-Butyl Alcohol	5.531	59	82233m	122.316	ug/l	
24) Methyl tert-Butyl Ether	5.807	73	324434	23.291	ug/l	94
25) Chloroform	7.972	83	199780	22.606	ug/l	98
26) Cyclohexane	8.260	56	179706	22.879	ug/l #	98
29) 1,1-Dichloropropene	8.378	75	148337	21.765	ug/l	98
30) 2-Butanone	7.490	43	360393	115.906	ug/l	99
31) 2,2-Dichloropropane	7.495	77	154044	22.814	ug/l #	65
32) 1,1,1-Trichloroethane	8.172	97	169923	21.375	ug/l	97
33) Carbon Tetrachloride	8.366	117	143306	20.388	ug/l	96
34) Benzene	8.613	78	447147	21.401	ug/l	96
35) Methacrylonitrile	7.790	41	64830m	18.529	ug/l	
36) 1,2-Dichloroethane	8.672	62	156232	22.308	ug/l	100
37) Trichloroethene	9.354	130	98588	19.145	ug/l	91
38) Methylcyclohexane	9.607	83	176219	20.773	ug/l	94
39) 1,2-Dichloropropane	9.625	63	118571	22.087	ug/l	95
40) Dibromomethane	9.707	93	73544	21.504	ug/l	97
41) Bromodichloromethane	9.889	83	151435	21.606	ug/l	98
42) Vinyl Acetate	6.613	43	1171705	120.889	ug/l	100

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 Acq On : 16 Mar 2023 16:46
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 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	158671	25.290	ug/l	97
44) Isopropyl Acetate	8.695	43	292770m	28.786	ug/l	
45) 1,4-Dioxane	9.695	88	39086	456.822	ug/l	91
46) Methyl methacrylate	9.684	41	115377	23.295	ug/l	95
47) n-amyl Acetate	12.495	43	198253	23.953	ug/l	94
48) t-1,3-Dichloropropene	10.836	75	156813	22.337	ug/l	98
49) cis-1,3-Dichloropropene	10.313	75	178923	22.439	ug/l	89
50) 1,1,2-Trichloroethane	11.019	97	105371	21.031	ug/l	94
51) Ethyl methacrylate	10.878	69	157264	21.291	ug/l	96
52) 1,3-Dichloropropane	11.166	76	187386	21.653	ug/l	98
53) Dibromochloromethane	11.360	129	104998	20.542	ug/l	99
54) 1,2-Dibromoethane	11.472	107	101344	20.961	ug/l	98
55) 2-Chloroethyl vinyl ether	10.160	63	373908	144.379	ug/l	97
56) Bromoform	12.583	173	67899	19.856	ug/l	98
58) 4-Methyl-2-Pentanone	10.448	43	745434	118.925	ug/l	94
59) 2-Hexanone	11.195	43	540241	121.329	ug/l	94
61) Tetrachloroethene	11.107	164	81970	16.735	ug/l	93
62) Toluene	10.631	91	461410	21.581	ug/l	97
64) Chlorobenzene	11.895	112	268832	21.361	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.966	131	100717	21.307	ug/l	97
66) Ethyl Benzene	11.966	91	505153	21.762	ug/l	98
67) m/p-Xylenes	12.072	106	387735	44.097	ug/l	92
68) o-Xylene	12.401	106	189171	22.036	ug/l	98
69) Styrene	12.413	104	302158	21.703	ug/l	98
70) Isopropylbenzene	12.701	105	492301	22.041	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.942	83	156129	23.183	ug/l	98
72) 1,2,3-Trichloropropane	12.995	75	118864m	19.240	ug/l	
73) Bromobenzene	12.983	156	104428	20.718	ug/l	85
74) n-propylbenzene	13.036	91	583064	22.116	ug/l	98
75) 2-Chlorotoluene	13.124	91	353519	21.682	ug/l	96
76) 1,3,5-Trimethylbenzene	13.177	105	422748	21.867	ug/l	93
77) t-1,4-Dichloro-2-butene	12.742	75	46366	24.586	ug/l	95
78) 4-Chlorotoluene	13.224	91	340515	21.666	ug/l	91
79) tert-butylbenzene	13.442	119	342188	21.166	ug/l	94
80) 1,2,4-Trimethylbenzene	13.483	105	410598	21.612	ug/l	97
81) sec-Butylbenzene	13.619	105	511407	22.109	ug/l	97
82) p-Isopropyltoluene	13.730	119	406395	21.738	ug/l	97
83) 1,3-Dichlorobenzene	13.736	146	199101	21.349	ug/l	98
84) 1,4-Dichlorobenzene	13.813	146	191211	21.107	ug/l	95
85) n-Butylbenzene	14.060	91	344942	21.768	ug/l	97
86) Hexachloroethane	14.336	117	75284	22.554	ug/l	100
87) 1,2-Dichlorobenzene	14.107	146	195202	20.989	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.724	75	28494	21.723	ug/l	100
89) 1,2,4-Trichlorobenzene	15.395	180	97548	19.663	ug/l	98
90) Hexachlorobutadiene	15.501	225	50616	19.353	ug/l	96
91) Naphthalene	15.648	128	319909	20.331	ug/l	98
92) 1,2,3-Trichlorobenzene	15.848	180	97418	19.587	ug/l	99

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

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