

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102023\
 Data File : VN079633.D
 Acq On : 20 Oct 2023 17:57
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/23/2023
 Supervised By : Semsettin Yesilyurt 10/24/2023

Quant Time: Oct 20 23:51:42 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 18 02:19:15 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	20478	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	143166	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	176696	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	84768	29.115	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	97.033%	
60) 4-Bromofluorobenzene	12.853	95	96251	29.787	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	99.300%	
63) Toluene-d8	10.571	98	226551	29.921	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	99.733%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	56280	18.951	ug/l	94
3) Chloromethane	2.365	50	68798	17.874	ug/l	95
4) Vinyl Chloride	2.518	62	78111	18.804	ug/l	99
5) Bromomethane	2.959	94	43418	16.857	ug/l	94
6) Chloroethane	3.124	64	54204	18.539	ug/l	95
7) Trichlorofluoromethane	3.501	101	97488	19.232	ug/l	97
8) Diethyl Ether	3.965	74	32584	17.736	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.383	101	56209	19.382	ug/l	98
10) 1,1-Dichloroethene	4.348	96	51309	18.595	ug/l	94
11) Methyl Iodide	4.595	142	59346	19.426	ug/l	93
12) Methyl Acetate	5.030	43	125956	18.936	ug/l	96
13) Acrolein	4.177	56	47856	87.034	ug/l	99
14) Acrylonitrile	5.724	53	149669	93.958	ug/l	98
15) Acetone	4.436	58	42339	83.904	ug/l	86
16) Carbon Disulfide	4.718	76	146419	17.402	ug/l	97
17) Allyl chloride	5.024	41	77901	18.312	ug/l	92
18) Methylene Chloride	5.277	84	66537	19.591	ug/l	92
19) trans-1,2-Dichloroethene	5.789	96	58849	19.064	ug/l	93
20) Diisopropyl ether	6.671	45	196703	19.500	ug/l #	98
21) 1,1-Dichloroethane	6.577	63	119921	19.564	ug/l	99
22) cis-1,2-Dichloroethene	7.494	96	68780	19.345	ug/l	95
23) tert-Butyl Alcohol	5.524	59	37092	69.635	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	169895	18.351	ug/l #	79
25) Chloroform	7.971	83	122816	19.829	ug/l	90
26) Cyclohexane	8.265	56	83613	18.045	ug/l #	99
29) 1,1-Dichloropropene	8.377	75	85010	20.319	ug/l	99
30) 2-Butanone	7.489	43	200381	95.548	ug/l	100
31) 2,2-Dichloropropane	7.494	77	90531	19.191	ug/l	100
32) 1,1,1-Trichloroethane	8.171	97	102134	20.539	ug/l	99
33) Carbon Tetrachloride	8.365	117	87073	20.588	ug/l	96
34) Benzene	8.612	78	267340	21.031	ug/l	99
35) Methacrylonitrile	7.789	41	43586	19.757	ug/l	96
36) 1,2-Dichloroethane	8.677	62	98512	21.705	ug/l	100
37) Trichloroethene	9.353	130	60480	20.355	ug/l	96
38) Methylcyclohexane	9.606	83	73809	18.323	ug/l	98
39) 1,2-Dichloropropane	9.624	63	70426	20.994	ug/l	95
40) Dibromomethane	9.712	93	48193	21.891	ug/l	96
41) Bromodichloromethane	9.894	83	97136	21.291	ug/l	97
42) Vinyl Acetate	6.606	43	526078	98.888	ug/l	99

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 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	85647	21.718	ug/l	97
44) Isopropyl Acetate	8.688	43	132143	18.850	ug/l	97
45) 1,4-Dioxane	9.700	88	19444	354.340	ug/l	96
46) Methyl methacrylate	9.688	41	61602	19.808	ug/l	97
47) n-amyl Acetate	12.500	43	98529	19.475	ug/l	98
48) t-1,3-Dichloropropene	10.841	75	91094	19.751	ug/l	99
49) cis-1,3-Dichloropropene	10.318	75	102732	20.370	ug/l	97
50) 1,1,2-Trichloroethane	11.024	97	65433	21.425	ug/l	97
51) Ethyl methacrylate	10.877	69	82793	19.649	ug/l	95
52) 1,3-Dichloropropane	11.165	76	114383	21.141	ug/l	99
53) Dibromochloromethane	11.365	129	65923	21.120	ug/l	96
54) 1,2-Dibromoethane	11.471	107	61740	20.491	ug/l	96
55) 2-Chloroethyl vinyl ether	10.165	63	168098	104.562	ug/l	98
56) Bromoform	12.582	173	42790	20.723	ug/l	97
58) 4-Methyl-2-Pentanone	10.447	43	422025	102.399	ug/l	99
59) 2-Hexanone	11.200	43	293578	97.097	ug/l	99
61) Tetrachloroethene	11.106	164	49198	20.279	ug/l	95
62) Toluene	10.635	91	280754	20.790	ug/l	99
64) Chlorobenzene	11.894	112	157525	20.113	ug/l	93
65) 1,1,1,2-Tetrachloroethane	11.965	131	62251	20.865	ug/l	98
66) Ethyl Benzene	11.971	91	275517	19.802	ug/l	100
67) m/p-Xylenes	12.076	106	210922	40.986	ug/l	94
68) o-Xylene	12.400	106	99710	20.267	ug/l	100
69) Styrene	12.418	104	164570	21.071	ug/l	99
70) Isopropylbenzene	12.700	105	253037	20.042	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	94613	21.075	ug/l	98
72) 1,2,3-Trichloropropane	13.000	75	81451m	19.979	ug/l	
73) Bromobenzene	12.982	156	60515	20.404	ug/l	98
74) n-propylbenzene	13.041	91	295336	20.093	ug/l	99
75) 2-Chlorotoluene	13.129	91	182975	20.023	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	213913	20.726	ug/l	98
77) t-1,4-Dichloro-2-butene	12.741	75	23871	19.185	ug/l	96
78) 4-Chlorotoluene	13.223	91	174255	20.183	ug/l	100
79) tert-butylbenzene	13.441	119	166898	20.112	ug/l	98
80) 1,2,4-Trimethylbenzene	13.488	105	209646	20.963	ug/l	98
81) sec-Butylbenzene	13.623	105	238775	20.496	ug/l	100
82) p-Isopropyltoluene	13.735	119	183665	19.875	ug/l	100
83) 1,3-Dichlorobenzene	13.735	146	104436	21.414	ug/l	95
84) 1,4-Dichlorobenzene	13.818	146	94168	20.141	ug/l	98
85) n-Butylbenzene	14.059	91	133075	18.431	ug/l	100
86) Hexachloroethane	14.335	117	40095	20.070	ug/l	98
87) 1,2-Dichlorobenzene	14.112	146	99406	20.506	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	13757	20.111	ug/l	98
89) 1,2,4-Trichlorobenzene	15.847	180	27758	16.246	ug/l	98
90) Hexachlorobutadiene	15.500	225	23531	19.443	ug/l	98
91) Naphthalene	15.641	128	58449	13.261	ug/l	99
92) 1,2,3-Trichlorobenzene	15.847	180	27758	16.246	ug/l	98

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

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