

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN083023\
 Data File : VN079115.D
 Acq On : 30 Aug 2023 16:52
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/31/2023
 Supervised By : Mahesh Dadoda 09/01/2023

Quant Time: Aug 31 02:16:17 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N081723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 18 05:21:14 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	39392	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	205778	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	192783	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	95485	29.920	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 99.733%			
60) 4-Bromofluorobenzene	12.853	95	84512	30.052	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.167%			
63) Toluene-d8	10.571	98	270481	30.044	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.133%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	45627	18.356	ug/l	90
3) Chloromethane	2.365	50	54159	18.180	ug/l	95
4) Vinyl Chloride	2.512	62	57404	19.469	ug/l	95
5) Bromomethane	2.942	94	36899	20.275	ug/l	98
6) Chloroethane	3.112	64	38783	20.242	ug/l	90
7) Trichlorofluoromethane	3.495	101	74841	18.846	ug/l	95
8) Diethyl Ether	3.959	74	15493	10.373	ug/l	29
9) 1,1,2-Trichlorotrifluo...	4.365	101	42764	20.619	ug/l	88
10) 1,1-Dichloroethene	4.336	96	38102	18.261	ug/l	90
11) Methyl Iodide	4.589	142	47662	18.929	ug/l	99
12) Methyl Acetate	5.030	43	95313	19.488	ug/l	93
13) Acrolein	4.177	56	13665	40.087	ug/l #	61
14) Acrylonitrile	5.730	53	123180	95.812	ug/l #	92
15) Acetone	4.436	58	34964	88.656	ug/l	89
16) Carbon Disulfide	4.712	76	105970	17.676	ug/l	99
17) Allyl chloride	5.024	41	69189	18.092	ug/l	93
18) Methylene Chloride	5.271	84	49025	19.654	ug/l	87
19) trans-1,2-Dichloroethene	5.789	96	44018	18.744	ug/l	97
20) Diisopropyl ether	6.677	45	161313	19.391	ug/l #	90
21) 1,1-Dichloroethane	6.577	63	91260	19.769	ug/l	97
22) cis-1,2-Dichloroethene	7.488	96	53211	19.798	ug/l	99
23) tert-Butyl Alcohol	5.530	59	45833	95.573	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	137108	18.511	ug/l	99
25) Chloroform	7.971	83	94805	20.387	ug/l	99
26) Cyclohexane	8.265	56	66295	19.633	ug/l #	96
29) 1,1-Dichloropropene	8.377	75	65565	20.945	ug/l	97
30) 2-Butanone	7.488	43	181629	99.114	ug/l	100
31) 2,2-Dichloropropane	7.494	77	71747	20.739	ug/l	96
32) 1,1,1-Trichloroethane	8.177	97	78124	20.904	ug/l	99
33) Carbon Tetrachloride	8.365	117	69898	21.592	ug/l	97
34) Benzene	8.612	78	196512	20.948	ug/l	96
35) Methacrylonitrile	7.783	41	37671	19.287	ug/l	89
36) 1,2-Dichloroethane	8.677	62	75013	21.354	ug/l	98
37) Trichloroethene	9.359	130	47098	20.170	ug/l	92
38) Methylcyclohexane	9.600	83	58338	21.168	ug/l	99
39) 1,2-Dichloropropane	9.624	63	54455	21.551	ug/l	95
40) Dibromomethane	9.706	93	37826	22.333	ug/l	95
41) Bromodichloromethane	9.894	83	75106	22.050	ug/l	99
42) Vinyl Acetate	6.612	43	506022	97.939	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	72844	20.490	ug/l	96
44) Isopropyl Acetate	8.694	43	126443	20.185	ug/l	99
45) 1,4-Dioxane	9.700	88	20400	432.756	ug/l	97
46) Methyl methacrylate	9.682	41	56327	20.408	ug/l	95
47) n-amyl Acetate	12.500	43	97047	20.188	ug/l	97
48) t-1,3-Dichloropropene	10.841	75	75048	20.687	ug/l	98
49) cis-1,3-Dichloropropene	10.318	75	82026	21.086	ug/l	97
50) 1,1,2-Trichloroethane	11.023	97	50481	22.055	ug/l	91
51) Ethyl methacrylate	10.876	69	69571	19.638	ug/l	96
52) 1,3-Dichloropropane	11.165	76	89116	21.737	ug/l	100
53) Dibromochloromethane	11.365	129	53864	21.501	ug/l	100
54) 1,2-Dibromoethane	11.476	107	50426	21.459	ug/l	97
55) 2-Chloroethyl vinyl ether	10.165	63	164001	100.155	ug/l	99
56) Bromoform	12.582	173	38515	21.791	ug/l	97
58) 4-Methyl-2-Pentanone	10.453	43	385603	100.814	ug/l	98
59) 2-Hexanone	11.200	43	275053	98.148	ug/l	97
61) Tetrachloroethene	11.112	164	40622	21.762	ug/l	94
62) Toluene	10.635	91	213411	20.277	ug/l	98
64) Chlorobenzene	11.894	112	127763	20.189	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.965	131	49586	20.493	ug/l	95
66) Ethyl Benzene	11.970	91	221257	20.097	ug/l	99
67) m/p-Xylenes	12.076	106	171772	41.846	ug/l	99
68) o-Xylene	12.400	106	81258	20.077	ug/l	97
69) Styrene	12.418	104	138012	20.985	ug/l	98
70) Isopropylbenzene	12.700	105	206180	21.024	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	79284	21.567	ug/l	97
72) 1,2,3-Trichloropropane	13.000	75	60736m	20.138	ug/l	
73) Bromobenzene	12.988	156	53422	21.398	ug/l	95
74) n-propylbenzene	13.041	91	241683	21.745	ug/l	99
75) 2-Chlorotoluene	13.129	91	150574	21.356	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	178079	22.907	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	22477	20.055	ug/l	89
78) 4-Chlorotoluene	13.223	91	144929	21.455	ug/l	100
79) tert-butylbenzene	13.441	119	138986	21.157	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	172396	22.553	ug/l	100
81) sec-Butylbenzene	13.623	105	200587	23.137	ug/l	98
82) p-Isopropyltoluene	13.735	119	160660	22.697	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	90075	22.356	ug/l	94
84) 1,4-Dichlorobenzene	13.817	146	82951	20.969	ug/l	97
85) n-Butylbenzene	14.064	91	120547	21.653	ug/l	99
86) Hexachloroethane	14.335	117	33069	22.833	ug/l	99
87) 1,2-Dichlorobenzene	14.112	146	87095	21.105	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.729	75	12030	18.232	ug/l	89
89) 1,2,4-Trichlorobenzene	15.841	180	29772	18.267	ug/l	94
90) Hexachlorobutadiene	15.506	225	19067	22.471	ug/l	95
91) Naphthalene	15.647	128	69863	14.862	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	29772	18.267	ug/l	94

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

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