

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081723\
 Data File : VN078921.D
 Acq On : 17 Aug 2023 13:03
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/18/2023
 Supervised By : Semsettin Yesilyurt 08/18/2023

Quant Time: Aug 18 05:04:46 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N081723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 18 05:01:29 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	45220	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	254443	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	234740	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	110081	30.048	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	100.167%		
60) 4-Bromofluorobenzene	12.853	95	102125	29.825	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.400%		
63) Toluene-d8	10.570	98	326064	29.745	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.133%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	57304	20.082	ug/l	100
3) Chloromethane	2.365	50	69026	20.185	ug/l	100
4) Vinyl Chloride	2.512	62	68440	20.221	ug/l	100
5) Bromomethane	2.953	94	40815	19.536	ug/l	100
6) Chloroethane	3.118	64	43001	19.551	ug/l	100
7) Trichlorofluoromethane	3.494	101	88639	19.444	ug/l	100
8) Diethyl Ether	3.965	74	34862	20.333	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	48022	20.192	ug/l	100
10) 1,1-Dichloroethene	4.336	96	49483	20.515	ug/l	100
11) Methyl Iodide	4.594	142	58265	20.158	ug/l	100
12) Methyl Acetate	5.030	43	114353	20.368	ug/l	100
13) Acrolein	4.183	56	37511	95.856	ug/l	100
14) Acrylonitrile	5.736	53	152648	103.431	ug/l	100
15) Acetone	4.436	58	44855	98.966	ug/l	100
16) Carbon Disulfide	4.712	76	141562	20.569	ug/l	100
17) Allyl chloride	5.030	41	88192	20.497	ug/l	100
18) Methylene Chloride	5.277	84	58250	20.343	ug/l	100
19) trans-1,2-Dichloroethene	5.788	96	52795	19.584	ug/l	100
20) Diisopropyl ether	6.677	45	196072	20.531	ug/l	100
21) 1,1-Dichloroethane	6.571	63	108132	20.405	ug/l	100
22) cis-1,2-Dichloroethene	7.494	96	65191	21.129	ug/l	100
23) tert-Butyl Alcohol	5.524	59	58172m	105.669	ug/l	
24) Methyl tert-Butyl Ether	5.800	73	177507	20.867	ug/l	100
25) Chloroform	7.971	83	106627	19.974	ug/l	100
26) Cyclohexane	8.265	56	79278	20.452	ug/l #	100
29) 1,1-Dichloropropene	8.377	75	81052	20.940	ug/l	100
30) 2-Butanone	7.494	43	226454	99.940	ug/l	100
31) 2,2-Dichloropropane	7.500	77	87883	20.544	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	94331	20.413	ug/l	100
33) Carbon Tetrachloride	8.365	117	82543	20.622	ug/l	100
34) Benzene	8.612	78	237932	20.513	ug/l	100
35) Methacrylonitrile	7.782	41	50534	20.925	ug/l	100
36) 1,2-Dichloroethane	8.676	62	87061	20.043	ug/l	100
37) Trichloroethene	9.359	130	57469	19.904	ug/l	100
38) Methylcyclohexane	9.606	83	69786	20.479	ug/l	100
39) 1,2-Dichloropropane	9.629	63	62260	19.927	ug/l	100
40) Dibromomethane	9.718	93	42766	20.420	ug/l	100
41) Bromodichloromethane	9.894	83	86165	20.458	ug/l	100
42) Vinyl Acetate	6.612	43	666938	104.395	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	86357	20.041	ug/l	100
44) Isopropyl Acetate	8.694	43	160167	20.678	ug/l	100
45) 1,4-Dioxane	9.706	88	23909	410.188	ug/l	100
46) Methyl methacrylate	9.688	41	71226	20.871	ug/l	100
47) n-amyl Acetate	12.500	43	125453	21.106	ug/l	100
48) t-1,3-Dichloropropene	10.841	75	91508	20.400	ug/l	100
49) cis-1,3-Dichloropropene	10.318	75	98456	20.469	ug/l	100
50) 1,1,2-Trichloroethane	11.023	97	59128	20.892	ug/l	100
51) Ethyl methacrylate	10.876	69	91757	20.947	ug/l	100
52) 1,3-Dichloropropane	11.165	76	103347	20.387	ug/l	100
53) Dibromochloromethane	11.365	129	61615	19.891	ug/l	100
54) 1,2-Dibromoethane	11.476	107	59450	20.460	ug/l	100
55) 2-Chloroethyl vinyl ether	10.165	63	194656	96.140	ug/l	100
56) Bromoform	12.582	173	44109	20.183	ug/l	100
58) 4-Methyl-2-Pentanone	10.453	43	460320	98.838	ug/l	100
59) 2-Hexanone	11.200	43	340059	99.656	ug/l	100
61) Tetrachloroethene	11.112	164	45482	20.011	ug/l	100
62) Toluene	10.635	91	256180	19.990	ug/l	100
64) Chlorobenzene	11.894	112	155372	20.164	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.964	131	59452	20.179	ug/l	100
66) Ethyl Benzene	11.964	91	265536	19.808	ug/l	100
67) m/p-Xylenes	12.076	106	202472	40.508	ug/l	100
68) o-Xylene	12.400	106	98262	19.939	ug/l	100
69) Styrene	12.417	104	163458	20.412	ug/l	100
70) Isopropylbenzene	12.700	105	240729	20.160	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	89316	19.953	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	71071m	18.118	ug/l	
73) Bromobenzene	12.982	156	60569	19.924	ug/l	100
74) n-propylbenzene	13.041	91	275340	20.346	ug/l	100
75) 2-Chlorotoluene	13.129	91	172386	20.079	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	191247	20.204	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	27105	19.861	ug/l	100
78) 4-Chlorotoluene	13.223	91	165771	20.154	ug/l	100
79) tert-butylbenzene	13.441	119	157306	19.666	ug/l	100
80) 1,2,4-Trimethylbenzene	13.488	105	189563	20.366	ug/l	100
81) sec-Butylbenzene	13.623	105	216818	20.539	ug/l	100
82) p-Isopropyltoluene	13.735	119	180234	20.912	ug/l	100
83) 1,3-Dichlorobenzene	13.735	146	96170	19.602	ug/l	100
84) 1,4-Dichlorobenzene	13.817	146	99352	20.626	ug/l	100
85) n-Butylbenzene	14.058	91	139659	20.602	ug/l	100
86) Hexachloroethane	14.335	117	34729	19.693	ug/l	100
87) 1,2-Dichlorobenzene	14.111	146	102495	20.397	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.723	75	17078	21.256	ug/l	100
89) 1,2,4-Trichlorobenzene	15.841	180	42324	21.322	ug/l	100
90) Hexachlorobutadiene	15.505	225	22641	21.914	ug/l	100
91) Naphthalene	15.647	128	122067	21.326	ug/l	100
92) 1,2,3-Trichlorobenzene	15.841	180	42324	21.327	ug/l	100

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

