

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082823\
 Data File : VN079059.D
 Acq On : 28 Aug 2023 11:46
 Operator : JC\MD
 Sample : VN0828WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0828WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/29/2023
 Supervised By : Semsettin Yesilyurt 08/29/2023

Quant Time: Aug 29 05:20:17 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	7.824	128	38498	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	212209	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	188943	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	91175	29.233	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.433%
60) 4-Bromofluorobenzene	12.853	95	83175	30.178	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	100.600%
63) Toluene-d8	10.571	98	269522	30.546	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.833%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	47306	19.473	ug/l	99
3) Chloromethane	2.365	50	55042	18.906	ug/l	99
4) Vinyl Chloride	2.518	62	55652	19.314	ug/l	99
5) Bromomethane	2.959	94	37866	21.289	ug/l	98
6) Chloroethane	3.124	64	38881	20.764	ug/l	94
7) Trichlorofluoromethane	3.495	101	80783	20.815	ug/l	98
8) Diethyl Ether	3.959	74	31374	21.494	ug/l	41
9) 1,1,2-Trichlorotrifluo...	4.377	101	43290	21.358	ug/l	65
10) 1,1-Dichloroethene	4.348	96	40098m	19.664	ug/l	
11) Methyl Iodide	4.595	142	51508	20.932	ug/l	96
12) Methyl Acetate	5.030	43	97571	20.413	ug/l	99
13) Acrolein	4.183	56	21651	64.989	ug/l	92
14) Acrylonitrile	5.724	53	124761	99.296	ug/l #	92
15) Acetone	4.436	58	44378	115.140	ug/l	94
16) Carbon Disulfide	4.706	76	105998	18.091	ug/l	98
17) Allyl chloride	5.024	41	70817	18.947	ug/l	95
18) Methylene Chloride	5.283	84	49322	20.232	ug/l	97
19) trans-1,2-Dichloroethene	5.789	96	45937	20.015	ug/l	93
20) Diisopropyl ether	6.677	45	165941	20.410	ug/l	92
21) 1,1-Dichloroethane	6.577	63	90341	20.025	ug/l	95
22) cis-1,2-Dichloroethene	7.489	96	52928	20.150	ug/l	97
23) tert-Butyl Alcohol	5.530	59	44847	95.689	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	146529	20.243	ug/l	100
25) Chloroform	7.971	83	89606	19.716	ug/l	94
26) Cyclohexane	8.259	56	67899	20.575	ug/l #	99
29) 1,1-Dichloropropene	8.371	75	65510	20.293	ug/l	98
30) 2-Butanone	7.489	43	191686	101.432	ug/l	99
31) 2,2-Dichloropropane	7.489	77	74251	20.812	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	78470	20.360	ug/l	97
33) Carbon Tetrachloride	8.365	117	68818	20.614	ug/l	98
34) Benzene	8.612	78	197244	20.389	ug/l	99
35) Methacrylonitrile	7.789	41	40653	20.183	ug/l	92
36) 1,2-Dichloroethane	8.677	62	73172m	20.198	ug/l	
37) Trichloroethene	9.359	130	46530	19.323	ug/l	95
38) Methylcyclohexane	9.600	83	64831	22.811	ug/l	98
39) 1,2-Dichloropropane	9.630	63	52456	20.131	ug/l	100
40) Dibromomethane	9.712	93	35733	20.458	ug/l	97
41) Bromodichloromethane	9.894	83	71813	20.444	ug/l	99
42) Vinyl Acetate	6.606	43	540240	101.393	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	71323	19.454	ug/l	94
44) Isopropyl Acetate	8.694	43	122392	18.946	ug/l	99
45) 1,4-Dioxane	9.700	88	20179	415.095	ug/l #	90
46) Methyl methacrylate	9.688	41	58595	20.587	ug/l	87
47) n-amyl Acetate	12.500	43	90845	18.325	ug/l	96
48) t-1,3-Dichloropropene	10.841	75	78048	20.862	ug/l	98
49) cis-1,3-Dichloropropene	10.318	75	81386	20.288	ug/l	95
50) 1,1,2-Trichloroethane	11.018	97	47020	19.920	ug/l	94
51) Ethyl methacrylate	10.877	69	73446	20.104	ug/l	97
52) 1,3-Dichloropropane	11.171	76	87778	20.762	ug/l	99
53) Dibromochloromethane	11.365	129	53266	20.618	ug/l	96
54) 1,2-Dibromoethane	11.477	107	49523	20.436	ug/l	93
55) 2-Chloroethyl vinyl ether	10.165	63	142209	84.215	ug/l	99
56) Bromoform	12.582	173	36964	20.279	ug/l #	94
58) 4-Methyl-2-Pentanone	10.447	43	378889	101.072	ug/l	100
59) 2-Hexanone	11.200	43	271722	98.930	ug/l	100
61) Tetrachloroethene	11.106	164	40981	22.401	ug/l	94
62) Toluene	10.635	91	212443	20.595	ug/l	98
64) Chlorobenzene	11.894	112	128713	20.753	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.965	131	49804	21.001	ug/l	99
66) Ethyl Benzene	11.971	91	221544	20.532	ug/l	96
67) m/p-Xylenes	12.077	106	168465	41.874	ug/l	99
68) o-Xylene	12.400	106	84908	21.405	ug/l	93
69) Styrene	12.418	104	132528	20.561	ug/l	99
70) Isopropylbenzene	12.700	105	207258	21.564	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	74010	20.541	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	57263m	19.373	ug/l	
73) Bromobenzene	12.982	156	49623	20.280	ug/l	96
74) n-propylbenzene	13.041	91	235030	21.577	ug/l	99
75) 2-Chlorotoluene	13.129	91	148463	21.484	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	170306	22.352	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	22734	20.696	ug/l	81
78) 4-Chlorotoluene	13.224	91	140830	21.272	ug/l	100
79) tert-butylbenzene	13.441	119	138686	21.541	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	167929	22.415	ug/l	100
81) sec-Butylbenzene	13.623	105	197437	23.236	ug/l	97
82) p-Isopropyltoluene	13.735	119	155714	22.446	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	82683	20.938	ug/l	96
84) 1,4-Dichlorobenzene	13.818	146	78563	20.264	ug/l	96
85) n-Butylbenzene	14.059	91	125317	22.967	ug/l	99
86) Hexachloroethane	14.341	117	31877	22.457	ug/l	88
87) 1,2-Dichlorobenzene	14.106	146	85965	21.254	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	13190	20.396	ug/l	95
89) 1,2,4-Trichlorobenzene	15.847	180	32693	20.467	ug/l	98
90) Hexachlorobutadiene	15.506	225	17189	20.669	ug/l	91
91) Naphthalene	15.647	128	88264	19.158	ug/l #	91
92) 1,2,3-Trichlorobenzene	15.847	180	32693	20.467	ug/l	98

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

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