

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082923\
 Data File : VN079084.D
 Acq On : 29 Aug 2023 11:05
 Operator : JC\MD
 Sample : VN0829WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0829WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/30/2023
 Supervised By : Mahesh Dadoda 09/01/2023

Quant Time: Aug 29 23:35:43 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	7.812	128	39028	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	9.106	114	206626	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	186193	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	91730	29.011	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.700%		
60) 4-Bromofluorobenzene	12.853	95	81330	29.945	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.800%		
63) Toluene-d8	10.571	98	263546	30.310	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.033%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	47120	19.133	ug/l	95
3) Chloromethane	2.365	50	55271	18.727	ug/l	95
4) Vinyl Chloride	2.518	62	56803	19.445	ug/l	93
5) Bromomethane	2.953	94	36712	20.360	ug/l	97
6) Chloroethane	3.118	64	38139	20.091	ug/l #	87
7) Trichlorofluoromethane	3.500	101	80020	20.339	ug/l	100
8) Diethyl Ether	3.965	74	27159	18.353	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.377	101	41521	20.207	ug/l	94
10) 1,1-Dichloroethene	4.347	96	39198	18.962	ug/l	96
11) Methyl Iodide	4.594	142	48530	19.454	ug/l	94
12) Methyl Acetate	5.036	43	94074	19.415	ug/l #	90
13) Acrolein	4.189	56	24496	72.531	ug/l	95
14) Acrylonitrile	5.724	53	122390	96.086	ug/l #	90
15) Acetone	4.424	58	20129	51.516	ug/l	95
16) Carbon Disulfide	4.706	76	103421	17.412	ug/l	100
17) Allyl chloride	5.024	41	64920	17.134	ug/l	97
18) Methylene Chloride	5.283	84	50672	20.504	ug/l #	94
19) trans-1,2-Dichloroethene	5.794	96	43113	18.530	ug/l	94
20) Diisopropyl ether	6.677	45	168966	20.500	ug/l #	90
21) 1,1-Dichloroethane	6.571	63	88563	19.364	ug/l	95
22) cis-1,2-Dichloroethene	7.494	96	51486	19.335	ug/l	100
23) tert-Butyl Alcohol	5.530	59	42650	89.765	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	140195	19.105	ug/l #	85
25) Chloroform	7.965	83	90751	19.697	ug/l	93
26) Cyclohexane	8.259	56	65615	19.613	ug/l #	98
29) 1,1-Dichloropropene	8.377	75	64605	20.554	ug/l	96
30) 2-Butanone	7.488	43	178459	96.984	ug/l	99
31) 2,2-Dichloropropane	7.494	77	73986	21.298	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	78344	20.877	ug/l	99
33) Carbon Tetrachloride	8.365	117	67157	20.660	ug/l #	95
34) Benzene	8.612	78	193423	20.535	ug/l	99
35) Methacrylonitrile	7.783	41	39053	19.913	ug/l	86
36) 1,2-Dichloroethane	8.671	62	76447	21.673	ug/l	97
37) Trichloroethene	9.359	130	47217	20.138	ug/l	94
38) Methylcyclohexane	9.600	83	61078	22.071	ug/l	99
39) 1,2-Dichloropropane	9.624	63	53015	20.895	ug/l	92
40) Dibromomethane	9.712	93	35958	21.143	ug/l	96
41) Bromodichloromethane	9.888	83	73327	21.439	ug/l	93
42) Vinyl Acetate	6.612	43	518518	99.946	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	73025m	20.456	ug/l	
44) Isopropyl Acetate	8.694	43	123128	19.575	ug/l	98
45) 1,4-Dioxane	9.700	88	20560	434.360	ug/l	97
46) Methyl methacrylate	9.688	41	57638	20.798	ug/l	88
47) n-amyl Acetate	12.500	43	90354	18.719	ug/l	96
48) t-1,3-Dichloropropene	10.841	75	74640	20.490	ug/l	95
49) cis-1,3-Dichloropropene	10.318	75	79488	20.350	ug/l	97
50) 1,1,2-Trichloroethane	11.018	97	49392	21.490	ug/l	92
51) Ethyl methacrylate	10.882	69	71392	20.069	ug/l	93
52) 1,3-Dichloropropane	11.165	76	87355	21.220	ug/l	100
53) Dibromochloromethane	11.359	129	52615	20.916	ug/l	97
54) 1,2-Dibromoethane	11.476	107	48109	20.389	ug/l	93
55) 2-Chloroethyl vinyl ether	10.165	63	172152	104.702	ug/l	99
56) Bromoform	12.582	173	35063	19.756	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	366467	99.202	ug/l	98
59) 2-Hexanone	11.200	43	264134	97.588	ug/l	100
61) Tetrachloroethene	11.106	164	38782	21.512	ug/l	96
62) Toluene	10.635	91	207591	20.422	ug/l	94
64) Chlorobenzene	11.894	112	125435	20.523	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.965	131	48947	20.945	ug/l	98
66) Ethyl Benzene	11.970	91	215666	20.283	ug/l	99
67) m/p-Xylenes	12.076	106	168157	42.415	ug/l	99
68) o-Xylene	12.406	106	82153	21.016	ug/l	95
69) Styrene	12.418	104	128758	20.271	ug/l	96
70) Isopropylbenzene	12.700	105	202644	21.395	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	73173	20.609	ug/l	100
72) 1,2,3-Trichloropropane	13.000	75	58202m	19.981	ug/l	
73) Bromobenzene	12.982	156	49761	20.637	ug/l	98
74) n-propylbenzene	13.041	91	232384	21.649	ug/l	99
75) 2-Chlorotoluene	13.129	91	141890	20.836	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	167211	22.270	ug/l	98
77) t-1,4-Dichloro-2-butene	12.741	75	21358	19.731	ug/l	79
78) 4-Chlorotoluene	13.223	91	137000	20.999	ug/l	100
79) tert-butylbenzene	13.441	119	142055	22.390	ug/l	96
80) 1,2,4-Trimethylbenzene	13.488	105	162131	21.961	ug/l	99
81) sec-Butylbenzene	13.623	105	186435	22.265	ug/l	97
82) p-Isopropyltoluene	13.735	119	151005	22.089	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	82657	21.241	ug/l	97
84) 1,4-Dichlorobenzene	13.817	146	77759	20.353	ug/l	97
85) n-Butylbenzene	14.059	91	117165	21.791	ug/l	99
86) Hexachloroethane	14.341	117	30458	21.774	ug/l	95
87) 1,2-Dichlorobenzene	14.112	146	79287	19.893	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.723	75	12168	19.094	ug/l	95
89) 1,2,4-Trichlorobenzene	15.841	180	29912	19.003	ug/l	99
90) Hexachlorobutadiene	15.506	225	17322	21.137	ug/l	96
91) Naphthalene	15.647	128	74456	16.400	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	29912	19.003	ug/l	99

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

