

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
 Data File : VN085209.D
 Acq On : 16 Dec 2024 10:57
 Operator : JC\MD
 Sample : VN1216WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1216WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/16/2024
 Supervised By : Mahesh Dadoda 12/17/2024

Quant Time: Dec 16 12:21:56 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	29855	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	161867	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	148673	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	72034	30.408	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.367%			
60) 4-Bromofluorobenzene	12.847	95	73852	30.022	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.067%			
63) Toluene-d8	10.565	98	202306	29.009	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 96.700%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.124	85	48095	20.136	ug/l	96
3) Chloromethane	2.359	50	40344	19.083	ug/l	92
4) Vinyl Chloride	2.512	62	45267	20.934	ug/l	96
5) Bromomethane	2.965	94	27446	19.991	ug/l	99
6) Chloroethane	3.118	64	28186	21.216	ug/l	95
7) Trichlorofluoromethane	3.501	101	72820	20.573	ug/l	97
8) Diethyl Ether	3.959	74	23793	21.222	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	39414	19.912	ug/l	88
10) 1,1-Dichloroethene	4.342	96	36096	19.853	ug/l	96
11) Methyl Iodide	4.589	142	46064	18.268	ug/l	97
12) Methyl Acetate	5.024	43	46738	21.790	ug/l	96
13) Acrolein	4.177	56	35773	114.765	ug/l	99
14) Acrylonitrile	5.718	53	91712	102.973	ug/l	96
15) Acetone	4.424	58	29139	120.730	ug/l	83
16) Carbon Disulfide	4.712	76	105348	19.385	ug/l	97
17) Allyl chloride	5.024	41	52512	20.184	ug/l	99
18) Methylene Chloride	5.277	84	41210	19.976	ug/l	92
19) trans-1,2-Dichloroethene	5.777	96	36574	19.353	ug/l	92
20) Diisopropyl ether	6.671	45	118990	20.841	ug/l	96
21) 1,1-Dichloroethane	6.565	63	71674	20.339	ug/l	99
22) cis-1,2-Dichloroethene	7.483	96	44718	20.587	ug/l	99
23) tert-Butyl Alcohol	5.512	59	35358	110.664	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	121741	21.432	ug/l #	74
25) Chloroform	7.965	83	74641	20.218	ug/l	100
26) Cyclohexane	8.253	56	56899	19.610	ug/l #	93
29) 1,1-Dichloropropene	8.371	75	51348	19.659	ug/l	95
30) 2-Butanone	7.477	43	130125	108.562	ug/l	98
31) 2,2-Dichloropropane	7.483	77	65963	19.694	ug/l #	100
32) 1,1,1-Trichloroethane	8.165	97	68382	19.342	ug/l	97
33) Carbon Tetrachloride	8.365	117	61882	19.398	ug/l	93
34) Benzene	8.600	78	159828	19.479	ug/l #	97
35) Methacrylonitrile	7.777	41	27030	20.039	ug/l	93
36) 1,2-Dichloroethane	8.665	62	54876	19.646	ug/l	99
37) Trichloroethene	9.347	130	38098	19.498	ug/l	95
38) Methylcyclohexane	9.600	83	53887	18.974	ug/l	96
39) 1,2-Dichloropropane	9.618	63	38165	19.203	ug/l	89
40) Dibromomethane	9.706	93	28463	19.966	ug/l	98
41) Bromodichloromethane	9.888	83	61025	20.024	ug/l	92
42) Vinyl Acetate	6.600	43	445381	106.188	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	49449	20.734	ug/l #	92
44) Isopropyl Acetate	8.683	43	85730	20.685	ug/l	97
45) 1,4-Dioxane	9.694	88	14082	407.451	ug/l #	92
46) Methyl methacrylate	9.677	41	37774	19.915	ug/l	93
47) n-amyl Acetate	12.488	43	69551	19.945	ug/l	98
48) t-1,3-Dichloropropene	10.835	75	59485	19.884	ug/l	100
49) cis-1,3-Dichloropropene	10.306	75	64591	19.833	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	37876	19.717	ug/l #	93
51) Ethyl methacrylate	10.871	69	59503	20.365	ug/l	90
52) 1,3-Dichloropropane	11.159	76	65044	20.232	ug/l	98
53) Dibromochloromethane	11.359	129	46465	19.848	ug/l	96
54) 1,2-Dibromoethane	11.465	107	38069	19.669	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	157517	116.053	ug/l	100
56) Bromoform	12.576	173	31005	19.753	ug/l #	97
58) 4-Methyl-2-Pentanone	10.441	43	251194	103.526	ug/l	98
59) 2-Hexanone	11.194	43	189877	103.278	ug/l	97
61) Tetrachloroethene	11.100	164	35715	19.837	ug/l	95
62) Toluene	10.630	91	169444	19.542	ug/l	100
64) Chlorobenzene	11.888	112	105294	19.669	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	41250	20.641	ug/l	93
66) Ethyl Benzene	11.959	91	180260	19.592	ug/l	95
67) m/p-Xylenes	12.071	106	139966	39.552	ug/l	99
68) o-Xylene	12.394	106	67500	20.311	ug/l	98
69) Styrene	12.406	104	113349	20.099	ug/l	100
70) Isopropylbenzene	12.694	105	170936	19.942	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	53129	20.363	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	42929m	16.657	ug/l	
73) Bromobenzene	12.976	156	43049	20.050	ug/l	99
74) n-propylbenzene	13.035	91	197415	19.157	ug/l	99
75) 2-Chlorotoluene	13.123	91	126567	19.864	ug/l	99
76) 1,3,5-Trimethylbenzene	13.171	105	143813	19.583	ug/l	98
77) t-1,4-Dichloro-2-butene	12.729	75	19066	20.358	ug/l	92
78) 4-Chlorotoluene	13.218	91	126224	19.518	ug/l	100
79) tert-butylbenzene	13.435	119	119154	19.754	ug/l	98
80) 1,2,4-Trimethylbenzene	13.476	105	145777	20.096	ug/l	99
81) sec-Butylbenzene	13.618	105	169356	19.763	ug/l	98
82) p-Isopropyltoluene	13.723	119	140763	19.813	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	77122	19.578	ug/l	100
84) 1,4-Dichlorobenzene	13.812	146	76595	19.952	ug/l	99
85) n-Butylbenzene	14.053	91	114947	19.288	ug/l	99
86) Hexachloroethane	14.335	117	27662	19.558	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	75009	20.174	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	11257	21.598	ug/l	99
89) 1,2,4-Trichlorobenzene	15.841	180	37581	20.638	ug/l	96
90) Hexachlorobutadiene	15.500	225	19537	20.647	ug/l	96
91) Naphthalene	15.635	128	116630	20.616	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	37581	20.638	ug/l	96

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

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