

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101424\
 Data File : VN084403.D
 Acq On : 14 Oct 2024 09:13
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020

Quant Time: Oct 15 01:28:55 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:22:28 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
 Carlone
 10/15/2024

Supervised By :Mahesh
 Dadoda
 10/15/2024

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

Internal Standards						
1) Bromochloromethane	7.818	128	33957	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	169162	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	160531	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	80124	29.308	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	97.700%	
60) 4-Bromofluorobenzene	12.847	95	80971	30.562	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	101.867%	
63) Toluene-d8	10.565	98	230733	31.026	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	103.433%	
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.130	85	37574	18.123	ug/l	99
3) Chloromethane	2.359	50	42474	18.003	ug/l	99
4) Vinyl Chloride	2.512	62	41869	18.097	ug/l	99
5) Bromomethane	2.959	94	27430	17.895	ug/l	93
6) Chloroethane	3.124	64	26668	17.582	ug/l	95
7) Trichlorofluoromethane	3.500	101	68095	18.069	ug/l	99
8) Diethyl Ether	3.965	74	23518	16.974	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.377	101	40024	18.888	ug/l	72
10) 1,1-Dichloroethene	4.342	96	37721	17.841	ug/l	85
11) Methyl Iodide	4.583	142	47625	17.140	ug/l	97
12) Methyl Acetate	5.030	43	50560	19.101	ug/l	98
13) Acrolein	4.177	56	41623	84.650	ug/l	99
14) Acrylonitrile	5.718	53	109155	91.789	ug/l	99
15) Acetone	4.430	58	38248	112.592	ug/l	99
16) Carbon Disulfide	4.712	76	108914	17.298	ug/l	99
17) Allyl chloride	5.024	41	55245	16.119	ug/l	89
18) Methylene Chloride	5.277	84	43548	18.284	ug/l	97
19) trans-1,2-Dichloroethene	5.789	96	40235	17.981	ug/l	89
20) Diisopropyl ether	6.677	45	131544	17.850	ug/l #	97
21) 1,1-Dichloroethane	6.571	63	77768	18.392	ug/l	98
22) cis-1,2-Dichloroethene	7.488	96	47745	18.336	ug/l	97
23) tert-Butyl Alcohol	5.518	59	39438	86.459	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	123990	17.548	ug/l #	84
25) Chloroform	7.965	83	83161	19.419	ug/l	98
26) Cyclohexane	8.259	56	55305	15.638	ug/l #	94
29) 1,1-Dichloropropene	8.371	75	54013	19.451	ug/l	99
30) 2-Butanone	7.488	43	156400	105.783	ug/l	98
31) 2,2-Dichloropropane	7.494	77	67067	20.552	ug/l #	80
32) 1,1,1-Trichloroethane	8.165	97	71508	20.146	ug/l	98
33) Carbon Tetrachloride	8.359	117	61908	20.132	ug/l	95
34) Benzene	8.606	78	176431	20.297	ug/l	96
35) Methacrylonitrile	7.777	41	31397	19.906	ug/l	99
36) 1,2-Dichloroethane	8.671	62	59274	20.457	ug/l	100
37) Trichloroethene	9.347	130	39354	19.661	ug/l	95
38) Methylcyclohexane	9.600	83	53384	17.501	ug/l	95
39) 1,2-Dichloropropane	9.624	63	43086	20.326	ug/l	100
40) Dibromomethane	9.712	93	31024	20.941	ug/l	99
41) Bromodichloromethane	9.888	83	65320	20.769	ug/l	92
42) Vinyl Acetate	6.606	43	472409	91.872	ug/l	100

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VSTDCCC020

Manual Integrations

APPROVED

Reviewed By :John

Carlone

10/15/2024

Supervised By :Mahesh

Dadoda

10/15/2024

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	59606	20.442	ug/l	98
44) Isopropyl Acetate	8.688	43	92419	19.365	ug/l	99
45) 1,4-Dioxane	9.694	88	18069	419.986	ug/l	97
46) Methyl methacrylate	9.682	41	41876	18.160	ug/l	95
47) n-amyl Acetate	12.494	43	77013	18.142	ug/l	94
48) t-1,3-Dichloropropene	10.835	75	61042	18.782	ug/l	96
49) cis-1,3-Dichloropropene	10.312	75	67600	19.847	ug/l	96
50) 1,1,2-Trichloroethane	11.018	97	42379	21.282	ug/l	97
51) Ethyl methacrylate	10.876	69	60844	18.498	ug/l	97
52) 1,3-Dichloropropane	11.159	76	70026	20.112	ug/l	98
53) Dibromochloromethane	11.359	129	48261	20.516	ug/l	98
54) 1,2-Dibromoethane	11.471	107	39883	19.457	ug/l	96
55) 2-Chloroethyl vinyl ether	10.159	63	169446	113.584	ug/l	100
56) Bromoform	12.576	173	32152	20.608	ug/l #	96
58) 4-Methyl-2-Pentanone	10.447	43	295135	98.693	ug/l	100
59) 2-Hexanone	11.194	43	227105	102.202	ug/l	99
61) Tetrachloroethene	11.106	164	35885	19.762	ug/l	99
62) Toluene	10.629	91	188437	20.051	ug/l	99
64) Chlorobenzene	11.888	112	114337	19.551	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	40038	19.707	ug/l	97
66) Ethyl Benzene	11.965	91	192959	18.899	ug/l	99
67) m/p-Xylenes	12.071	106	152677	39.418	ug/l	100
68) o-Xylene	12.400	106	69844	18.708	ug/l	98
69) Styrene	12.412	104	123875	19.328	ug/l	98
70) Isopropylbenzene	12.694	105	181641	19.058	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	62646	21.247	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	51899m	20.553	ug/l	
73) Bromobenzene	12.982	156	46322	20.068	ug/l	97
74) n-propylbenzene	13.035	91	219925	19.364	ug/l	100
75) 2-Chlorotoluene	13.123	91	135472	19.195	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	156249	19.470	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	20235	18.753	ug/l	96
78) 4-Chlorotoluene	13.223	91	139091	19.384	ug/l	98
79) tert-butylbenzene	13.435	119	129254	18.879	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	158429	19.457	ug/l	99
81) sec-Butylbenzene	13.617	105	182377	19.348	ug/l	98
82) p-Isopropyltoluene	13.729	119	148715	18.745	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	86272	20.101	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	84140	19.742	ug/l	98
85) n-Butylbenzene	14.059	91	124785	18.160	ug/l	99
86) Hexachloroethane	14.335	117	29734	19.453	ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	84062	20.258	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	12221	20.269	ug/l	95
89) 1,2,4-Trichlorobenzene	15.841	180	39810	18.452	ug/l	99
90) Hexachlorobutadiene	15.500	225	18938	18.973	ug/l	100
91) Naphthalene	15.641	128	121399	16.605	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	39810	18.452	ug/l	99

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

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