

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022324\
 Data File : VN081151.D
 Acq On : 23 Feb 2024 09:35
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Quant Time: Feb 24 00:08:52 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 10 01:55:02 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
 Carlone

02/26/2024
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	7.812	128	68771	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	397467	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	356506	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	160719	31.102	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.667%
60) 4-Bromofluorobenzene	12.853	95	170369	31.259	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	104.200%
63) Toluene-d8	10.571	98	492941	30.811	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.700%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	92221	19.722	ug/l	98
3) Chloromethane	2.359	50	94429	20.095	ug/l	98
4) Vinyl Chloride	2.518	62	97820	17.460	ug/l	97
5) Bromomethane	2.965	94	66688	17.721	ug/l	99
6) Chloroethane	3.124	64	65663	17.979	ug/l	96
7) Trichlorofluoromethane	3.500	101	143675	19.474	ug/l	99
8) Diethyl Ether	3.959	74	52432	20.220	ug/l	90
9) 1,1,2-Trichlorotrifluo...	4.371	101	83130	20.761	ug/l	93
10) 1,1-Dichloroethene	4.342	96	75252	19.175	ug/l	98
11) Methyl Iodide	4.589	142	77585	18.459	ug/l	92
12) Methyl Acetate	5.018	43	87762	24.678	ug/l #	74
13) Acrolein	4.177	56	96738	124.735	ug/l	100
14) Acrylonitrile	5.724	53	203588	115.285	ug/l	90
15) Acetone	4.430	58	36071	88.790	ug/l	99
16) Carbon Disulfide	4.718	76	197110	18.301	ug/l #	94
17) Allyl chloride	5.018	41	112206	22.765	ug/l	91
18) Methylene Chloride	5.277	84	87237	19.451	ug/l	93
19) trans-1,2-Dichloroethene	5.783	96	85532	19.198	ug/l	83
20) Diisopropyl ether	6.671	45	268823	22.693	ug/l	96
21) 1,1-Dichloroethane	6.571	63	154825	20.394	ug/l	98
22) cis-1,2-Dichloroethene	7.488	96	99286	19.180	ug/l	98
23) tert-Butyl Alcohol	5.518	59	78352	121.793	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	264163	20.304	ug/l	92
25) Chloroform	7.971	83	164483	19.529	ug/l	98
26) Cyclohexane	8.259	56	134842	23.588	ug/l #	94
29) 1,1-Dichloropropene	8.371	75	118498	20.015	ug/l	100
30) 2-Butanone	7.483	43	235194	108.273	ug/l	98
31) 2,2-Dichloropropane	7.488	77	138890	20.604	ug/l	99
32) 1,1,1-Trichloroethane	8.171	97	144586	19.413	ug/l	98
33) Carbon Tetrachloride	8.365	117	125047	19.927	ug/l	97
34) Benzene	8.606	78	360429	19.922	ug/l	98
35) Methacrylonitrile	7.777	41	61715	24.172	ug/l	94
36) 1,2-Dichloroethane	8.671	62	122079	20.106	ug/l	98
37) Trichloroethene	9.359	130	91874	19.100	ug/l	99
38) Methylcyclohexane	9.600	83	140635	23.802	ug/l	98
39) 1,2-Dichloropropane	9.624	63	90925	21.188	ug/l	93
40) Dibromomethane	9.706	93	64614	19.790	ug/l	92
41) Bromodichloromethane	9.888	83	123945	19.397	ug/l	93
42) Vinyl Acetate	6.606	43	1090564	117.372	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	7.559	43	116811	25.818	ug/l	#	89
44) Isopropyl Acetate	8.688	43	204724m	25.183	ug/l		
45) 1,4-Dioxane	9.700	88	36429	472.492	ug/l		95
46) Methyl methacrylate	9.682	41	90718	24.388	ug/l		85
47) n-amyl Acetate	12.494	43	169732	23.941	ug/l		91
48) t-1,3-Dichloropropene	10.841	75	135049	20.166	ug/l		99
49) cis-1,3-Dichloropropene	10.318	75	147333	20.303	ug/l	#	92
50) 1,1,2-Trichloroethane	11.018	97	86562	19.161	ug/l		99
51) Ethyl methacrylate	10.876	69	132307	20.955	ug/l		77
52) 1,3-Dichloropropane	11.165	76	153463	20.571	ug/l		98
53) Dibromochloromethane	11.359	129	89145	18.104	ug/l		96
54) 1,2-Dibromoethane	11.476	107	89210	19.088	ug/l		99
55) 2-Chloroethyl vinyl ether	10.165	63	366561	113.288	ug/l		99
56) Bromoform	12.582	173	56225	17.929	ug/l	#	94
58) 4-Methyl-2-Pentanone	10.447	43	583821	126.138	ug/l	#	90
59) 2-Hexanone	11.200	43	411731	120.947	ug/l		90
61) Tetrachloroethene	11.106	164	81216	19.943	ug/l		89
62) Toluene	10.635	91	393439	20.147	ug/l		100
64) Chlorobenzene	11.894	112	234956	19.644	ug/l		97
65) 1,1,1,2-Tetrachloroethane	11.965	131	86767	19.557	ug/l		99
66) Ethyl Benzene	11.965	91	425230	20.709	ug/l		100
67) m/p-Xylenes	12.076	106	324494	40.241	ug/l		97
68) o-Xylene	12.400	106	158533	20.061	ug/l		97
69) Styrene	12.412	104	260587	20.030	ug/l		97
70) Isopropylbenzene	12.700	105	417970	21.703	ug/l		98
71) 1,1,2,2-Tetrachloroethane	12.941	83	125467	21.128	ug/l		97
72) 1,2,3-Trichloropropane	12.994	75	112916m	24.290	ug/l		
73) Bromobenzene	12.982	156	92658	19.347	ug/l		97
74) n-propylbenzene	13.035	91	496000	22.662	ug/l		99
75) 2-Chlorotoluene	13.129	91	293134	21.574	ug/l		95
76) 1,3,5-Trimethylbenzene	13.176	105	350869	22.267	ug/l		98
77) t-1,4-Dichloro-2-butene	12.741	75	39278	22.327	ug/l		93
78) 4-Chlorotoluene	13.223	91	285663	20.991	ug/l		96
79) tert-butylbenzene	13.441	119	293701	22.453	ug/l		99
80) 1,2,4-Trimethylbenzene	13.488	105	348788	22.215	ug/l		98
81) sec-Butylbenzene	13.617	105	432608	23.617	ug/l		99
82) p-Isopropyltoluene	13.735	119	352141	22.899	ug/l		97
83) 1,3-Dichlorobenzene	13.735	146	176722	20.516	ug/l		97
84) 1,4-Dichlorobenzene	13.812	146	178799	20.680	ug/l		98
85) n-Butylbenzene	14.059	91	316622	24.953	ug/l		99
86) Hexachloroethane	14.335	117	59769	24.640	ug/l		84
87) 1,2-Dichlorobenzene	14.112	146	175772	20.959	ug/l		99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	23645	22.060	ug/l		96
89) 1,2,4-Trichlorobenzene	15.841	180	97146	23.679	ug/l		99
90) Hexachlorobutadiene	15.506	225	36963	20.535	ug/l		99
91) Naphthalene	15.647	128	344406	23.642	ug/l		99
92) 1,2,3-Trichlorobenzene	15.841	180	97146	23.679	ug/l		99

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

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