

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082824\
 Data File : VN083525.D
 Acq On : 28 Aug 2024 08:55
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/28/2024
 Supervised By : Mahesh Dadoda 08/29/2024

Quant Time: Aug 28 11:58:57 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N082824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 28 11:58:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	30208	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	185347	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	167383	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	84042	33.229	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 110.767%#			
60) 4-Bromofluorobenzene	12.847	95	90470	32.477	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 108.267%			
63) Toluene-d8	10.565	98	230145	28.952	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 96.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.118	85	225591	131.561	ug/l	96
3) Chloromethane	2.359	50	221612	111.441	ug/l	98
4) Vinyl Chloride	2.512	62	235849	125.547	ug/l	97
5) Bromomethane	2.901	94	109523	111.728	ug/l	95
6) Chloroethane	3.053	64	148973	140.042	ug/l	97
7) Trichlorofluoromethane	3.459	101	386025	140.430	ug/l	100
8) Diethyl Ether	3.953	74	138101	103.780	ug/l	86
9) 1,1,2-Trichlorotrifluo...	4.353	101	216327	114.667	ug/l	96
10) 1,1-Dichloroethene	4.318	96	204272	110.662	ug/l	90
11) Methyl Iodide	4.577	142	282451	167.514	ug/l	94
12) Methyl Acetate	5.018	43	348321	147.605	ug/l #	80
13) Acrolein	4.177	56	167759	341.363	ug/l	98
14) Acrylonitrile	5.718	53	553033	524.893	ug/l	98
15) Acetone	4.424	58	172315	725.187	ug/l	71
16) Carbon Disulfide	4.695	76	538656	105.457	ug/l	98
17) Allyl chloride	5.006	41	379500	114.859	ug/l	88
18) Methylene Chloride	5.265	84	224927	107.224	ug/l	93
19) trans-1,2-Dichloroethene	5.777	96	209221	108.890	ug/l	97
20) Diisopropyl ether	6.671	45	747052	104.312	ug/l	95
21) 1,1-Dichloroethane	6.565	63	418201	110.282	ug/l	96
22) cis-1,2-Dichloroethene	7.483	96	259796	110.709	ug/l	93
23) tert-Butyl Alcohol	5.547	59	224873	518.047	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	759440m	114.244	ug/l	
25) Chloroform	7.965	83	442639	121.329	ug/l	98
26) Cyclohexane	8.253	56	363422	111.491	ug/l #	89
29) 1,1-Dichloropropene	8.365	75	305307	110.644	ug/l	98
30) 2-Butanone	7.483	43	795642	559.375	ug/l	95
31) 2,2-Dichloropropane	7.488	77	407032	143.941	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	413631	130.337	ug/l	97
33) Carbon Tetrachloride	8.359	117	360665	140.036	ug/l	97
34) Benzene	8.606	78	937933	106.547	ug/l	98
35) Methacrylonitrile	7.777	41	180617	100.370	ug/l	92
36) 1,2-Dichloroethane	8.671	62	343558	116.259	ug/l	95
37) Trichloroethene	9.353	130	219746	101.917	ug/l	95
38) Methylcyclohexane	9.600	83	383217	114.963	ug/l	96
39) 1,2-Dichloropropane	9.624	63	225279	99.736	ug/l	97
40) Dibromomethane	9.706	93	162116	111.721	ug/l	95
41) Bromodichloromethane	9.888	83	357961	115.416	ug/l	98
42) Vinyl Acetate	6.600	43	3882973	641.377	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	303918	97.665	ug/l	95
44) Isopropyl Acetate	8.688	43	586948	106.619	ug/l #	88
45) 1,4-Dioxane	9.700	88	88089	1995.036	ug/l	93
46) Methyl methacrylate	9.682	41	267131	106.201	ug/l	84
47) n-amyl Acetate	12.494	43	512161m	103.166	ug/l	
48) t-1,3-Dichloropropene	10.835	75	379936	112.964	ug/l	97
49) cis-1,3-Dichloropropene	10.312	75	391636	110.134	ug/l #	84
50) 1,1,2-Trichloroethane	11.018	97	217876	110.672	ug/l	98
51) Ethyl methacrylate	10.877	69	387747	104.358	ug/l	81
52) 1,3-Dichloropropane	11.165	76	380976	105.333	ug/l	99
53) Dibromochloromethane	11.359	129	261049	121.876	ug/l	99
54) 1,2-Dibromoethane	11.471	107	223478	113.824	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	760417	409.271	ug/l	99
56) Bromoform	12.576	173	171327	131.425	ug/l #	98
58) 4-Methyl-2-Pentanone	10.447	43	1550710	477.153	ug/l #	90
59) 2-Hexanone	11.194	43	1203686	499.509	ug/l	90
61) Tetrachloroethene	11.106	164	186347	100.333	ug/l	93
62) Toluene	10.629	91	1018225	108.116	ug/l	100
64) Chlorobenzene	11.894	112	627041	108.854	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	225643	119.681	ug/l	98
66) Ethyl Benzene	11.965	91	1171267	113.459	ug/l	99
67) m/p-Xylenes	12.071	106	868732	226.971	ug/l	97
68) o-Xylene	12.400	106	429676	113.465	ug/l	99
69) Styrene	12.412	104	725465	114.123	ug/l	99
70) Isopropylbenzene	12.694	105	1126016	117.079	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	325349	117.553	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	286472m	126.496	ug/l	
73) Bromobenzene	12.982	156	249759	121.315	ug/l	93
74) n-propylbenzene	13.035	91	1315046	115.813	ug/l	100
75) 2-Chlorotoluene	13.123	91	812563	115.758	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	946371	121.567	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	128182	111.244	ug/l	91
78) 4-Chlorotoluene	13.223	91	816262	118.697	ug/l	98
79) tert-butylbenzene	13.441	119	833906	124.413	ug/l	100
80) 1,2,4-Trimethylbenzene	13.482	105	952291	121.784	ug/l	99
81) sec-Butylbenzene	13.618	105	1160353	123.501	ug/l	99
82) p-Isopropyltoluene	13.729	119	979839	131.885	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	483431	130.408	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	489333	131.329	ug/l	100
85) n-Butylbenzene	14.059	91	868306	127.948	ug/l	98
86) Hexachloroethane	14.335	117	191889	129.535	ug/l	88
87) 1,2-Dichlorobenzene	14.106	146	492835	133.481	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	74191	119.458	ug/l	94
89) 1,2,4-Trichlorobenzene	15.841	180	270362	132.987	ug/l	99
90) Hexachlorobutadiene	15.500	225	116009	154.074	ug/l	99
91) Naphthalene	15.641	128	932705	120.687	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	270362	132.987	ug/l	99

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

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