

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082824\
 Data File : VN083526.D
 Acq On : 28 Aug 2024 09:19
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Manual Integrations
 APPROVED

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

Quant Time: Aug 28 11:59:19 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	32226	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	194299	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	172908	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	86394	32.020	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.733%			
60) 4-Bromofluorobenzene	12.847	95	90942	31.604	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 105.333%			
63) Toluene-d8	10.565	98	236310	28.778	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 95.933%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	111095	60.732	ug/l	99
3) Chloromethane	2.359	50	110277	51.982	ug/l	95
4) Vinyl Chloride	2.512	62	116583	58.173	ug/l	96
5) Bromomethane	2.901	94	55501	53.073	ug/l	98
6) Chloroethane	3.065	64	74038	65.241	ug/l	96
7) Trichlorofluoromethane	3.465	101	193181	65.875	ug/l	96
8) Diethyl Ether	3.959	74	67320	47.422	ug/l	85
9) 1,1,2-Trichlorotrifluo...	4.359	101	105968	52.652	ug/l	95
10) 1,1-Dichloroethene	4.324	96	99988	50.775	ug/l	88
11) Methyl Iodide	4.577	142	139754	77.694	ug/l	93
12) Methyl Acetate	5.024	43	172049m	68.342	ug/l	
13) Acrolein	4.171	56	72204	137.723	ug/l	100
14) Acrylonitrile	5.718	53	268129	238.550	ug/l	97
15) Acetone	4.430	58	79321	312.918	ug/l	77
16) Carbon Disulfide	4.700	76	266951	48.990	ug/l	96
17) Allyl chloride	5.012	41	184831	52.438	ug/l	89
18) Methylene Chloride	5.271	84	112023	50.058	ug/l	87
19) trans-1,2-Dichloroethene	5.777	96	103621	50.553	ug/l	98
20) Diisopropyl ether	6.671	45	371019	48.562	ug/l	94
21) 1,1-Dichloroethane	6.565	63	203732	50.361	ug/l	93
22) cis-1,2-Dichloroethene	7.483	96	129549	51.749	ug/l	93
23) tert-Butyl Alcohol	5.536	59	114280m	246.784	ug/l	
24) Methyl tert-Butyl Ether	5.794	73	376801m	53.134	ug/l	
25) Chloroform	7.965	83	216679	55.674	ug/l	100
26) Cyclohexane	8.253	56	179444	51.603	ug/l #	88
29) 1,1-Dichloropropene	8.371	75	149848	51.803	ug/l	98
30) 2-Butanone	7.483	43	378114	253.585	ug/l	96
31) 2,2-Dichloropropane	7.483	77	197346	66.573	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	204938	61.602	ug/l	99
33) Carbon Tetrachloride	8.359	117	178401	66.077	ug/l	96
34) Benzene	8.606	78	455031	49.309	ug/l	98
35) Methacrylonitrile	7.777	41	88995	47.177	ug/l	91
36) 1,2-Dichloroethane	8.671	62	172130	55.565	ug/l	95
37) Trichloroethene	9.353	130	106717	47.214	ug/l	93
38) Methylcyclohexane	9.600	83	186383	53.338	ug/l	96
39) 1,2-Dichloropropane	9.624	63	111202	46.963	ug/l	97
40) Dibromomethane	9.706	93	79976	52.576	ug/l	95
41) Bromodichloromethane	9.888	83	174280	53.603	ug/l	98
42) Vinyl Acetate	6.600	43	189682	298.854	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	159010	48.744	ug/l	97
44) Isopropyl Acetate	8.688	43	301891	52.312	ug/l #	86
45) 1,4-Dioxane	9.700	88	44035	951.354	ug/l #	90
46) Methyl methacrylate	9.682	41	131904	50.024	ug/l	83
47) n-amyl Acetate	12.494	43	244108	46.906	ug/l	90
48) t-1,3-Dichloropropene	10.835	75	182836	51.857	ug/l	90
49) cis-1,3-Dichloropropene	10.312	75	189199	50.754	ug/l #	86
50) 1,1,2-Trichloroethane	11.018	97	107775	52.223	ug/l	96
51) Ethyl methacrylate	10.876	69	185726	47.683	ug/l	81
52) 1,3-Dichloropropane	11.165	76	187862	49.547	ug/l	99
53) Dibromochloromethane	11.359	129	127737	56.889	ug/l	98
54) 1,2-Dibromoethane	11.471	107	111305	54.079	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	352819	181.145	ug/l	99
56) Bromoform	12.582	173	82979	60.720	ug/l #	98
58) 4-Methyl-2-Pentanone	10.447	43	768065	228.782	ug/l #	90
59) 2-Hexanone	11.194	43	587760	236.116	ug/l	90
61) Tetrachloroethene	11.106	164	90078	46.950	ug/l	95
62) Toluene	10.629	91	493450	50.721	ug/l	100
64) Chlorobenzene	11.888	112	309206	51.963	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	108845	55.887	ug/l	96
66) Ethyl Benzene	11.965	91	572106	53.648	ug/l	98
67) m/p-Xylenes	12.070	106	421535	106.614	ug/l	97
68) o-Xylene	12.400	106	206633	52.822	ug/l	97
69) Styrene	12.412	104	352001	53.604	ug/l	99
70) Isopropylbenzene	12.694	105	552464	55.608	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	158014	55.268	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	117543m	50.244	ug/l	
73) Bromobenzene	12.982	156	122257	57.486	ug/l	91
74) n-propylbenzene	13.035	91	644419	54.939	ug/l	99
75) 2-Chlorotoluene	13.123	91	404794	55.825	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	462019	57.453	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	60483	50.814	ug/l	93
78) 4-Chlorotoluene	13.223	91	390695	54.998	ug/l	100
79) tert-butylbenzene	13.441	119	412077	59.515	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	468554	58.007	ug/l	99
81) sec-Butylbenzene	13.617	105	556197	57.306	ug/l	100
82) p-Isopropyltoluene	13.729	119	471102	61.384	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	235991	61.626	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	237043	61.586	ug/l	99
85) n-Butylbenzene	14.059	91	407027	58.060	ug/l	98
86) Hexachloroethane	14.335	117	90852	59.370	ug/l	89
87) 1,2-Dichlorobenzene	14.106	146	237765	62.339	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	37647	58.680	ug/l	93
89) 1,2,4-Trichlorobenzene	15.841	180	130356	62.071	ug/l	100
90) Hexachlorobutadiene	15.500	225	55160	70.918	ug/l	99
91) Naphthalene	15.641	128	454431	56.922	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	130356	62.071	ug/l	100

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

