

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092821\
 Data File : VN068723.D
 Acq On : 28 Sep 2021 16:10
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 9/30/2021 12:18:15 PM

Quant Time: Sep 29 01:53:03 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092821W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 29 01:51:17 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.662	128	88742	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	502512	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	484912	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	209976	25.884	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	86.267%#
60) 4-Bromofluorobenzene	12.733	95	235852	27.492	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	91.633%
63) Toluene-d8	10.443	98	655831	29.037	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.073	85	179008	35.956	ug/l	99
3) Chloromethane	2.301	50	241104	38.059	ug/l	99
4) Vinyl Chloride	2.443	62	482982	56.268	ug/l	99
5) Bromomethane	2.853	94	422203	65.409	ug/l	99
6) Chloroethane	3.017	64	386757	59.727	ug/l	98
7) Trichlorofluoromethane	3.373	101	391544	41.581	ug/l	96
8) Diethyl Ether	3.827	74	138121	41.549	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.213	101	228511	43.740	ug/l	72
10) 1,1-Dichloroethene	4.183	96	210512	43.483	ug/l	95
11) Methyl Iodide	4.425	142	260511	42.313	ug/l	98
12) Methyl Acetate	4.854	43	369374	37.140	ug/l	99
13) Acrolein	4.044	56	66345	195.449	ug/l	96
14) Acrylonitrile	5.554	53	590441	196.854	ug/l	100
15) Acetone	4.285	58	158067	190.191	ug/l	96
16) Carbon Disulfide	4.535	76	565955	41.663	ug/l	99
17) Allyl chloride	4.846	41	341351	36.734	ug/l	96
18) Methylene Chloride	5.098	84	262055	43.955	ug/l	99
19) trans-1,2-Dichloroethene	5.602	96	250479	46.344	ug/l	98
20) Diisopropyl ether	6.495	45	805647	39.946	ug/l	99
21) 1,1-Dichloroethane	6.391	63	462616	42.842	ug/l	99
22) cis-1,2-Dichloroethene	7.329	96	309370	47.477	ug/l	98
23) tert-Butyl Alcohol	5.361	59	223436	219.379	ug/l #	100
24) Methyl tert-Butyl Ether	5.618	73	847183	45.182	ug/l	100
25) Chloroform	7.817	83	552296	45.526	ug/l	100
26) Cyclohexane	8.096	56	411877	41.290	ug/l #	98
29) 1,1-Dichloropropene	8.222	75	396988	41.566	ug/l	98
30) 2-Butanone	7.332	43	877209	199.393	ug/l	100
31) 2,2-Dichloropropane	7.327	77	444706	46.028	ug/l	99
32) 1,1,1-Trichloroethane	8.016	97	510193	46.193	ug/l	100
33) Carbon Tetrachloride	8.209	117	456909	44.236	ug/l	99
34) Benzene	8.461	78	1170474	45.276	ug/l	98
35) Methacrylonitrile	7.635	41	179219	39.866	ug/l	98
36) 1,2-Dichloroethane	8.531	62	438476	43.845	ug/l	100
37) Trichloroethene	9.217	130	308289	47.508	ug/l	96
38) Methylcyclohexane	9.461	83	494808	41.673	ug/l	100
39) 1,2-Dichloropropane	9.491	63	289243	39.069	ug/l	99
40) Dibromomethane	9.579	93	229886	45.565	ug/l	98
41) Bromodichloromethane	9.764	83	454546	44.910	ug/l	95
42) Vinyl Acetate	6.433	43	3291549	207.000	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.412	43	352581	41.061	ug/l	98
44) Isopropyl Acetate	8.560	43	654890	41.059	ug/l	100
45) 1,4-Dioxane	9.569	88	103360	872.991	ug/l	98
46) Methyl methacrylate	9.561	41	282010	35.219	ug/l	98
47) n-amyl Acetate	12.387	43	592618	39.441	ug/l	98
48) t-1,3-Dichloropropene	10.719	75	492623	44.239	ug/l	99
49) cis-1,3-Dichloropropene	10.191	75	504080	44.276	ug/l	98
50) 1,1,2-Trichloroethane	10.899	97	315173	45.277	ug/l	97
51) Ethyl methacrylate	10.762	69	487258	45.160	ug/l	98
52) 1,3-Dichloropropane	11.046	76	517324	46.342	ug/l	99
53) Dibromochloromethane	11.240	129	362962	45.631	ug/l	99
54) 1,2-Dibromoethane	11.347	107	334709	46.215	ug/l	97
55) 2-Chloroethyl vinyl ether	10.043	63	670606	213.370	ug/l	99
56) Bromoform	12.460	173	260608	44.911	ug/l #	100
58) 4-Methyl-2-Pentanone	10.330	43	2063259	205.295	ug/l	99
59) 2-Hexanone	11.087	43	1516017	197.977	ug/l	100
61) Tetrachloroethene	10.979	164	279911	47.099	ug/l	95
62) Toluene	10.507	91	1421225	45.861	ug/l	99
64) Chlorobenzene	11.771	112	868350	48.492	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.843	131	336465	46.084	ug/l	99
66) Ethyl Benzene	11.846	91	1645105	46.876	ug/l	98
67) m/p-Xylenes	11.956	106	1283772	94.168	ug/l	100
68) o-Xylene	12.283	106	625351	44.929	ug/l	100
69) Styrene	12.296	104	1053230	44.696	ug/l	99
70) Isopropylbenzene	12.581	105	1681818	46.334	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.830	83	477576	46.728	ug/l	98
72) 1,2,3-Trichloropropane	12.881	75	389396m	41.165	ug/l	
73) Bromobenzene	12.862	156	379058	47.692	ug/l	97
74) n-propylbenzene	12.921	91	1968078	48.017	ug/l	100
75) 2-Chlorotoluene	13.010	91	1147627	49.119	ug/l	100
76) 1,3,5-Trimethylbenzene	13.061	105	1432385	51.299	ug/l	99
77) t-1,4-Dichloro-2-butene	12.629	75	152168	43.032	ug/l	97
78) 4-Chlorotoluene	13.106	91	1148544	50.297	ug/l	99
79) tert-butylbenzene	13.326	119	1235303	51.865	ug/l	99
80) 1,2,4-Trimethylbenzene	13.369	105	1431524m	54.944	ug/l	
81) sec-Butylbenzene	13.503	105	1801372	56.257	ug/l	100
82) p-Isopropyltoluene	13.618	119	1503570	52.243	ug/l	99
83) 1,3-Dichlorobenzene	13.618	146	739781	53.605	ug/l	99
84) 1,4-Dichlorobenzene	13.696	146	698237	54.849	ug/l	99
85) n-Butylbenzene	13.943	91	1241929	53.925	ug/l	99
86) Hexachloroethane	14.211	117	276171	51.642	ug/l	100
87) 1,2-Dichlorobenzene	13.991	146	682149	54.964	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.605	75	88075	44.800	ug/l	97
89) 1,2,4-Trichlorobenzene	15.265	180	320925	51.001	ug/l	98
90) Hexachlorobutadiene	15.372	225	158458	47.050	ug/l	99
91) Naphthalene	15.507	128	920980	53.897	ug/l	99
92) 1,2,3-Trichlorobenzene	15.702	180	305821	50.957	ug/l	99

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

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