

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102320\
 Data File : VN064302.D
 Acq On : 23 Oct 2020 22:02
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 10/26/2020 1:39:19 PM

Quant Time: Oct 26 02:54:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102320W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Oct 26 01:30:11 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	45063	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	263742	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	236568	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	129193	32.85	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	109.50%
60) 4-Bromofluorobenzene	12.38	95	123796	29.40	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.00%
63) Toluene-d8	10.06	98	315532	29.84	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.47%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	52081	17.766	ug/l 99
3) Chloromethane	2.04	50	55523	17.933	ug/l 96
4) Vinyl Chloride	2.16	62	54626	17.563	ug/l 100
5) Bromomethane	2.54	94	35715	17.492	ug/l 95
6) Chloroethane	2.68	64	33524	18.379	ug/l 89
7) Trichlorofluoromethane	2.99	101	94909	18.040	ug/l 95
8) Diethyl Ether	3.38	74	31565	18.207	ug/l 91
9) 1,1,2-Trichlorotrifluoroet	3.73	101	45339	17.289	ug/l # 88
10) 1,1-Dichloroethene	3.70	96	44435	17.671	ug/l 98
11) Methyl Iodide	3.91	142	57651	16.001	ug/l 93
12) Methyl Acetate	4.28	43	49988	17.000	ug/l 98
13) Acrolein	3.57	56	17192	71.250	ug/l 95
14) Acrylonitrile	4.93	53	93181	81.881	ug/l # 60
15) Acetone	3.77	58	26871m	73.765	ug/l
16) Carbon Disulfide	4.01	76	121535	16.682	ug/l 94
17) Allyl chloride	4.28	41	84648	17.560	ug/l 95
18) Methylene Chloride	4.51	84	52437	17.836	ug/l 97
19) trans-1,2-Dichloroethene	4.99	96	48545	16.983	ug/l 94
20) Diisopropyl ether	5.90	45	165905	18.061	ug/l 99
21) 1,1-Dichloroethane	5.80	63	100286	18.305	ug/l 98
22) cis-1,2-Dichloroethene	6.78	96	58083	17.713	ug/l # 90
23) tert-Butyl Alcohol	4.73	59	41550	78.742	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	160954	18.430	ug/l # 68
25) Chloroform	7.33	83	108024	18.219	ug/l 93
26) Cyclohexane	7.62	56	70000	16.476	ug/l # 99
29) 1,1-Dichloropropene	7.76	75	75474	16.554	ug/l 97
30) 2-Butanone	6.78	43	154619	77.217	ug/l 99
31) 2,2-Dichloropropane	6.78	77	90557	15.870	ug/l # 85
32) 1,1,1-Trichloroethane	7.53	97	97752	16.779	ug/l 98
33) Carbon Tetrachloride	7.74	117	86822	16.636	ug/l 91
34) Benzene	8.00	78	210502	16.894	ug/l 99
35) Methacrylonitrile	7.13	41	37292	18.473	ug/l 96
36) 1,2-Dichloroethane	8.08	62	95383	17.955	ug/l 100
37) Trichloroethene	8.80	130	59174	17.257	ug/l 89
38) Methylcyclohexane	9.05	83	62997	15.135	ug/l 96
39) 1,2-Dichloropropane	9.08	63	57056	17.129	ug/l 95
40) Dibromomethane	9.17	93	39380	16.898	ug/l 90

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.37	83	88557	17.523	ug/l	89
42) Vinyl Acetate	5.85	43	754257	85.402	ug/l	99
43) Ethyl Acetate	6.88	43	72292	17.054	ug/l #	87
44) Isopropyl Acetate	8.13	43	130324	17.142	ug/l #	84
45) 1,4-Dioxane	9.16	88	13494	290.609	ug/l	98
46) Methyl methacrylate	9.17	41	63865	17.373	ug/l	95
47) n-amyl Acetate	12.04	43	111670	17.023	ug/l	100
48) t-1,3-Dichloropropene	10.35	75	96724	17.143	ug/l	96
49) cis-1,3-Dichloropropene	9.81	75	95241	16.253	ug/l	96
50) 1,1,2-Trichloroethane	10.53	97	57009	18.571	ug/l	94
51) Ethyl methacrylate	10.40	69	80134	16.971	ug/l	88
52) 1,3-Dichloropropane	10.68	76	91515	16.859	ug/l	98
53) Dibromochloromethane	10.87	129	64904	16.923	ug/l	91
54) 1,2-Dibromoethane	10.98	107	56662	17.273	ug/l	100
55) 2-Chloroethyl vinyl ether	9.66	63	206761	90.125	ug/l	99
56) Bromoform	12.10	173	45017	16.601	ug/l	96
58) 4-Methyl-2-Pentanone	9.95	43	346886	85.080	ug/l	99
59) 2-Hexanone	10.72	43	244852	79.205	ug/l	98
61) Tetrachloroethene	10.60	164	57714	17.461	ug/l	93
62) Toluene	10.13	91	237580	17.446	ug/l	97
64) Chlorobenzene	11.41	112	144085	17.056	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.48	131	58090	17.214	ug/l	96
66) Ethyl Benzene	11.48	91	267847	17.155	ug/l	98
67) m/p-Xylenes	11.59	106	196235	33.892	ug/l	100
68) o-Xylene	11.92	106	93170	16.572	ug/l	99
69) Styrene	11.94	104	157706	16.847	ug/l	99
70) Isopropylbenzene	12.22	105	251723	16.935	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.48	83	66017	16.558	ug/l	99
72) 1,2,3-Trichloropropane	12.53	75	74768m	18.059	ug/l	
73) Bromobenzene	12.50	156	64177	17.749	ug/l	93
74) n-propylbenzene	12.57	91	282991	16.593	ug/l	98
75) 2-Chlorotoluene	12.65	91	180240	17.115	ug/l	99
76) 1,3,5-Trimethylbenzene	12.71	105	211976	16.826	ug/l	98
77) t-1,4-Dichloro-2-butene	12.27	75	24113	15.061	ug/l	83
78) 4-Chlorotoluene	12.75	91	183114	16.678	ug/l	100
79) tert-butylbenzene	12.97	119	170966	16.605	ug/l	95
80) 1,2,4-Trimethylbenzene	13.01	105	219750	17.187	ug/l	99
81) sec-Butylbenzene	13.14	105	220626	16.507	ug/l	99
82) p-Isopropyltoluene	13.26	119	201232	16.407	ug/l	97
83) 1,3-Dichlorobenzene	13.26	146	105859	16.599	ug/l	98
84) 1,4-Dichlorobenzene	13.34	146	101132	15.573	ug/l	95
85) n-Butylbenzene	13.59	91	173646	16.089	ug/l	95
86) Hexachloroethane	13.85	117	32737	15.807	ug/l	97
87) 1,2-Dichlorobenzene	13.63	146	106050	17.043	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	14.24	75	16001	16.470	ug/l	97
89) 1,2,4-Trichlorobenzene	14.88	180	54680	15.404	ug/l	92
90) Hexachlorobutadiene	14.98	225	29053	14.947	ug/l	98
91) Naphthalene	15.10	128	171236	16.496	ug/l	97
92) 1,2,3-Trichlorobenzene	15.28	180	55558	16.321	ug/l	97

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

