

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071320\
 Data File : VN062507.D
 Acq On : 13 Jul 2020 9:36
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 7/14/2020 11:36:38 AM

Quant Time: Jul 13 11:40:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071320W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jul 13 10:35:22 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	47176	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	265983	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	238891	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	122477	38.58	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	128.60%
60) 4-Bromofluorobenzene	12.37	95	115579	31.88	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	106.27%
63) Toluene-d8	10.06	98	341813	32.90	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	109.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	12640	5.933 ug/l	98
3) Chloromethane	2.04	50	19201	7.227 ug/l	98
4) Vinyl Chloride	2.16	62	16973	5.116 ug/l	93
5) Bromomethane	2.52	94	9271	4.555 ug/l	98
6) Chloroethane	2.67	64	8152	3.724 ug/l	100
7) Trichlorofluoromethane	2.98	101	20684	4.518 ug/l	98
8) Diethyl Ether	3.37	74	9296	5.815 ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.71	101	13194	5.284 ug/l	83
10) 1,1-Dichloroethene	3.69	96	13318	5.378 ug/l	96
11) Methyl Iodide	3.91	142	11745	3.586 ug/l	98
12) Methyl Acetate	4.28	43	17929	7.911 ug/l	100
13) Acrolein	3.57	56	8001	24.957 ug/l #	47
14) Acrylonitrile	4.93	53	38027	33.542 ug/l	88
15) Acetone	3.77	58	11836	33.013 ug/l	92
16) Carbon Disulfide	4.00	76	43254	7.766 ug/l	99
17) Allyl chloride	4.27	41	27333	8.085 ug/l	97
18) Methylene Chloride	4.50	84	16618	5.724 ug/l	98
19) trans-1,2-Dichloroethene	4.99	96	14925	5.431 ug/l #	90
20) Diisopropyl ether	5.90	45	56714	7.379 ug/l	98
21) 1,1-Dichloroethane	5.79	63	30132	6.325 ug/l	99
22) cis-1,2-Dichloroethene	6.77	96	16324	5.068 ug/l	98
23) tert-Butyl Alcohol	4.73	59	12812	30.033 ug/l #	100
24) Methyl tert-Butyl Ether	4.99	73	46747	5.691 ug/l #	74
25) Chloroform	7.32	83	27987	5.445 ug/l	99
26) Cyclohexane	7.61	56	25247	6.701 ug/l #	99
29) 1,1-Dichloropropene	7.75	75	20792	5.478 ug/l	98
30) 2-Butanone	6.78	43	53457	35.172 ug/l	99
31) 2,2-Dichloropropane	6.77	77	24495	5.518 ug/l #	84
32) 1,1,1-Trichloroethane	7.53	97	22988	4.899 ug/l	99
33) Carbon Tetrachloride	7.72	117	19898	5.122 ug/l	96
34) Benzene	8.00	78	63277	5.385 ug/l #	67
35) Methacrylonitrile	7.12	41	7754	5.772 ug/l	95
36) 1,2-Dichloroethane	8.08	62	23576	6.038 ug/l	98
37) Trichloroethene	8.80	130	13876	4.038 ug/l	94
38) Methylcyclohexane	9.05	83	23511	5.552 ug/l	97
39) 1,2-Dichloropropane	9.08	63	18001	6.100 ug/l	98
40) Dibromomethane	9.17	93	10521	5.063 ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	21649	5.090	ug/l	98
42) Vinyl Acetate	5.84	43	227509	36.822	ug/l	99
43) Ethyl Acetate	6.88	43	22074	7.211	ug/l	97
44) Isopropyl Acetate	8.12	43	36102	6.780	ug/l	98
45) 1,4-Dioxane	9.16	88	4702	94.239	ug/l	92
46) Methyl methacrylate	9.17	41	16354	6.823	ug/l	92
47) n-amyl Acetate	12.05	43	24964	5.518	ug/l	99
48) t-1,3-Dichloropropene	10.35	75	23771	5.219	ug/l	97
49) cis-1,3-Dichloropropene	9.81	75	26541	5.359	ug/l	95
50) 1,1,2-Trichloroethane	10.53	97	14503	4.813	ug/l	99
51) Ethyl methacrylate	10.40	69	21464	5.176	ug/l	99
52) 1,3-Dichloropropane	10.68	76	26018	5.266	ug/l	98
53) Dibromochloromethane	10.87	129	14719	4.216	ug/l	99
54) 1,2-Dibromoethane	10.98	107	14671	4.712	ug/l	96
55) 2-Chloroethyl vinyl ether	9.66	63	26968	17.654	ug/l	99
56) Bromoform	12.10	173	9557	3.917	ug/l	96
58) 4-Methyl-2-Pentanone	9.95	43	103845	34.760	ug/l	100
59) 2-Hexanone	10.72	43	73502	33.702	ug/l	99
61) Tetrachloroethene	10.60	164	12165	3.518	ug/l	95
62) Toluene	10.12	91	64404	5.145	ug/l	99
64) Chlorobenzene	11.40	112	38093	4.837	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.48	131	14063	4.690	ug/l	99
66) Ethyl Benzene	11.48	91	68712	5.002	ug/l	95
67) m/p-Xylenes	11.59	106	49851	9.324	ug/l	100
68) o-Xylene	11.92	106	23669	4.671	ug/l	100
69) Styrene	11.94	104	38491	4.465	ug/l	98
70) Isopropylbenzene	12.22	105	63845	4.747	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.48	83	20993	5.609	ug/l	98
72) 1,2,3-Trichloropropane	12.53	75	20670m	5.916	ug/l	
73) Bromobenzene	12.50	156	15238	4.316	ug/l	97
74) n-propylbenzene	12.56	91	73927	4.836	ug/l	100
75) 2-Chlorotoluene	12.65	91	45735	5.025	ug/l	99
76) 1,3,5-Trimethylbenzene	12.71	105	53864	4.803	ug/l	97
77) t-1,4-Dichloro-2-butene	12.27	75	6769	5.258	ug/l	97
78) 4-Chlorotoluene	12.75	91	44364	4.709	ug/l	99
79) tert-butylbenzene	12.97	119	44062	4.554	ug/l	98
80) 1,2,4-Trimethylbenzene	13.01	105	50733	4.510	ug/l	98
81) sec-Butylbenzene	13.15	105	59483	4.758	ug/l	98
82) p-Isopropyltoluene	13.26	119	50946	4.429	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	24094	3.852	ug/l	97
84) 1,4-Dichlorobenzene	13.34	146	23807	3.882	ug/l	97
85) n-Butylbenzene	13.59	91	41355	4.357	ug/l	98
86) Hexachloroethane	13.85	117	10244	5.957	ug/l	92
87) 1,2-Dichlorobenzene	13.62	146	24034	4.046	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.25	75	3303	4.714	ug/l	97
89) 1,2,4-Trichlorobenzene	14.88	180	8470	2.499	ug/l	93
90) Hexachlorobutadiene	14.98	225	6894	4.502	ug/l	95
91) Naphthalene	15.10	128	23201	2.470	ug/l	99
92) 1,2,3-Trichlorobenzene	15.28	180	9258	2.779	ug/l	97

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

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