

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061020\
 Data File : VN061729.D
 Acq On : 10 Jun 2020 10:31
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 6/11/2020 12:44:24 PM

Quant Time: Jun 10 12:16:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N061020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 10 11:59:42 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.14	128	69266	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.54	114	367708	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	341150	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.98	65	130504	22.51	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	75.03%
60) 4-Bromofluorobenzene	12.37	95	143464	25.24	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	84.13%
63) Toluene-d8	10.06	98	442177	28.40	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	94.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	13091	4.224 ug/l	96
3) Chloromethane	2.03	50	15055	2.863 ug/l	97
4) Vinyl Chloride	2.16	62	21408	3.032 ug/l	99
5) Bromomethane	2.54	94	14397	3.843 ug/l	99
6) Chloroethane	2.67	64	16071	3.364 ug/l	99
7) Trichlorofluoromethane	2.98	101	33177	4.139 ug/l	98
8) Diethyl Ether	3.37	74	10219	4.076 ug/l	90
9) 1,1,2-Trichlorotrifluoroet	3.71	101	19229	5.550 ug/l	97
10) 1,1-Dichloroethene	3.69	96	16923	4.676 ug/l	92
11) Methyl Iodide	3.91	142	20110	4.868 ug/l	98
12) Methyl Acetate	4.27	43	13981	3.402 ug/l	100
13) Acrolein	3.56	56	10048	14.804 ug/l	100
14) Acrylonitrile	4.93	53	35948	18.502 ug/l #	93
15) Acetone	3.77	58	12455	25.659 ug/l	96
16) Carbon Disulfide	4.00	76	27776	2.855 ug/l	97
17) Allyl chloride	4.27	41	18237	2.711 ug/l	93
18) Methylene Chloride	4.50	84	21231	4.873 ug/l	97
19) trans-1,2-Dichloroethene	4.99	96	18183	4.251 ug/l	94
20) Diisopropyl ether	5.89	45	48271	3.092 ug/l	95
21) 1,1-Dichloroethane	5.79	63	32554	3.869 ug/l	99
22) cis-1,2-Dichloroethene	6.78	96	23146m	4.667 ug/l	
23) tert-Butyl Alcohol	4.73	59	14325	22.589 ug/l #	100
24) Methyl tert-Butyl Ether	4.98	73	56420	4.014 ug/l #	72
25) Chloroform	7.32	83	38732	4.648 ug/l	94
26) Cyclohexane	7.61	56	19259	2.463 ug/l #	98
29) 1,1-Dichloropropene	7.75	75	23079	3.791 ug/l	99
30) 2-Butanone	6.79	43	44401m	17.820 ug/l	
31) 2,2-Dichloropropane	6.77	77	31119	4.367 ug/l #	76
32) 1,1,1-Trichloroethane	7.52	97	33329	4.784 ug/l	98
33) Carbon Tetrachloride	7.73	117	24783	4.589 ug/l	94
34) Benzene	8.00	78	76614	4.388 ug/l #	74
35) Methacrylonitrile	7.12	41	8476	3.541 ug/l #	78
36) 1,2-Dichloroethane	8.08	62	26983	4.150 ug/l	97
37) Trichloroethene	8.80	130	24454	5.437 ug/l	94
38) Methylcyclohexane	9.04	83	22824	3.152 ug/l	96
39) 1,2-Dichloropropane	9.08	63	19796	4.239 ug/l	99
40) Dibromomethane	9.17	93	14180	4.724 ug/l	97

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

41) Bromodichloromethane	9.36	83	29030	4.530	ug/l	98
42) Vinyl Acetate	5.84	43	174042	14.896	ug/l	98
43) Ethyl Acetate	6.88	43	17011	3.303	ug/l #	86
44) Isopropyl Acetate	8.12	43	31519	3.104	ug/l #	90
45) 1,4-Dioxane	9.16	88	6508	137.911	ug/l	91
46) Methyl methacrylate	9.16	41	13629	2.889	ug/l	98
47) n-amyl Acetate	12.05	43	23795	2.653	ug/l	98
48) t-1,3-Dichloropropene	10.35	75	28233	3.822	ug/l	96
49) cis-1,3-Dichloropropene	9.81	75	32048	4.057	ug/l	98
50) 1,1,2-Trichloroethane	10.53	97	21718	5.211	ug/l	98
51) Ethyl methacrylate	10.40	69	23239	3.405	ug/l	99
52) 1,3-Dichloropropane	10.68	76	33576	4.550	ug/l	100
53) Dibromochloromethane	10.87	129	24128	5.217	ug/l	98
54) 1,2-Dibromoethane	10.98	107	21392	4.962	ug/l	98
55) 2-Chloroethyl vinyl ether	9.66	63	39899	13.537	ug/l	99
56) Bromoform	12.10	173	15739	5.324	ug/l #	94
58) 4-Methyl-2-Pentanone	9.95	43	88814	15.820	ug/l	99
59) 2-Hexanone	10.72	43	63919	16.071	ug/l	99
61) Tetrachloroethene	10.60	164	25317	5.736	ug/l	87
62) Toluene	10.12	91	89645	4.685	ug/l	99
64) Chlorobenzene	11.40	112	58453	5.097	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.48	131	22552	5.351	ug/l	99
66) Ethyl Benzene	11.48	91	95342	4.388	ug/l	99
67) m/p-Xylenes	11.59	106	73571	9.043	ug/l	96
68) o-Xylene	11.92	106	33804	4.368	ug/l	96
69) Styrene	11.94	104	56445	4.249	ug/l	100
70) Isopropylbenzene	12.22	105	92886	4.442	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.48	83	27339	4.789	ug/l	98
72) 1,2,3-Trichloropropane	12.53	75	24225m	4.492	ug/l	
73) Bromobenzene	12.50	156	25515	5.603	ug/l	98
74) n-propylbenzene	12.56	91	106415	4.311	ug/l	99
75) 2-Chlorotoluene	12.65	91	64062	4.528	ug/l	100
76) 1,3,5-Trimethylbenzene	12.71	105	76999	4.394	ug/l	99
77) t-1,4-Dichloro-2-butene	12.27	75	7035	3.159	ug/l	99
78) 4-Chlorotoluene	12.75	91	65067	4.382	ug/l	99
79) tert-butylbenzene	12.97	119	68117	4.669	ug/l	97
80) 1,2,4-Trimethylbenzene	13.01	105	76130	4.334	ug/l	99
81) sec-Butylbenzene	13.15	105	86700	4.343	ug/l	100
82) p-Isopropyltoluene	13.26	119	78177	4.328	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	46887	5.571	ug/l	97
84) 1,4-Dichlorobenzene	13.34	146	44727	5.400	ug/l	99
85) n-Butylbenzene	13.59	91	64399	3.927	ug/l	98
86) Hexachloroethane	13.85	117	11847	4.753	ug/l	91
87) 1,2-Dichlorobenzene	13.63	146	44672	5.605	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.25	75	4828	4.090	ug/l	91
89) 1,2,4-Trichlorobenzene	14.89	180	22809	5.024	ug/l	98
90) Hexachlorobutadiene	14.99	225	11621	6.112	ug/l	95
91) Naphthalene	15.10	128	61202	4.375	ug/l	99
92) 1,2,3-Trichlorobenzene	15.29	180	23409	5.266	ug/l	97

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

