

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102518\
 Data File : VN052012.D
 Acq On : 25 Oct 2018 15:21
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 10/26/2018 9:19:53 AM

Quant Time: Oct 26 02:17:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 12 10:23:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	179708	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	1025671	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	914948	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	310299	28.38	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	94.60%
60) 4-Bromofluorobenzene	12.40	95	380338	28.83	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.10%
63) Toluene-d8	10.09	98	1166970	29.37	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	149861	21.465	ug/l 97
3) Chloromethane	2.06	50	134348	18.207	ug/l 97
4) Vinyl Chloride	2.19	62	167288	15.182	ug/l 99
5) Bromomethane	2.57	94	161674	16.606	ug/l 87
6) Chloroethane	2.71	64	126280	15.902	ug/l 98
7) Trichlorofluoromethane	3.02	101	322387	20.521	ug/l 93
8) Diethyl Ether	3.41	74	95301	20.838	ug/l 67
9) 1,1,2-Trichlorotrifluoroet	3.76	101	198436	22.180	ug/l # 39
10) 1,1-Dichloroethene	3.74	96	177910	21.502	ug/l # 77
11) Methyl Iodide	3.96	142	289237	24.047	ug/l 96
12) Methyl Acetate	4.33	43	103021	20.051	ug/l 93
13) Acrolein	3.61	56	17183	50.760	ug/l 86
14) Acrylonitrile	4.99	53	225746	98.309	ug/l # 62
15) Acetone	3.82	58	56756	99.985	ug/l 91
16) Carbon Disulfide	4.06	76	371921	17.116	ug/l 99
17) Allyl chloride	4.33	41	162552	16.548	ug/l 75
18) Methylene Chloride	4.56	84	194715	21.048	ug/l 86
19) trans-1,2-Dichloroethene	5.05	96	201274	21.304	ug/l # 77
20) Diisopropyl ether	5.95	45	422795	19.326	ug/l # 84
21) 1,1-Dichloroethane	5.86	63	311016	20.346	ug/l # 98
22) cis-1,2-Dichloroethene	6.83	96	236481	21.311	ug/l # 77
23) tert-Butyl Alcohol	4.78	59	34592m	57.198	ug/l
24) Methyl tert-Butyl Ether	5.05	73	455141	19.093	ug/l # 67
25) Chloroform	7.37	83	378098	20.849	ug/l 95
26) Cyclohexane	7.66	56	241668	18.648	ug/l # 67
29) 1,1-Dichloropropene	7.80	75	258610	19.561	ug/l 91
30) 2-Butanone	6.84	43	250062	90.493	ug/l # 83
31) 2,2-Dichloropropane	6.83	77	276426	17.773	ug/l # 75
32) 1,1,1-Trichloroethane	7.57	97	347799	19.842	ug/l # 93
33) Carbon Tetrachloride	7.78	117	305809	19.284	ug/l 93
34) Benzene	8.04	78	799509	20.444	ug/l # 66
35) Methacrylonitrile	7.17	41	49182	13.547	ug/l 77
36) 1,2-Dichloroethane	8.13	62	253414	20.223	ug/l # 94
37) Trichloroethene	8.84	130	252461	20.796	ug/l 93
38) Methylcyclohexane	9.08	83	316158	18.644	ug/l 77
39) 1,2-Dichloropropane	9.12	63	183021	19.872	ug/l 95
40) Dibromomethane	9.21	93	141718	20.733	ug/l 93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	266918	18.905	ug/l	96
42) Vinyl Acetate	5.90	43	1385946	89.095	ug/l #	88
43) Ethyl Acetate	6.93	43	109479	18.246	ug/l	97
44) Isopropyl Acetate	8.17	43	216778	18.088	ug/l	99
45) 1,4-Dioxane	9.20	88	24428	253.843	ug/l #	74
46) Methyl methacrylate	9.20	41	102371	18.519	ug/l	70
47) n-amyl Acetate	12.07	43	190666	19.004	ug/l #	71
48) t-1,3-Dichloropropene	10.38	75	243092	17.656	ug/l	97
49) cis-1,3-Dichloropropene	9.84	75	283622	18.687	ug/l	95
50) 1,1,2-Trichloroethane	10.56	97	195860	20.738	ug/l	95
51) Ethyl methacrylate	10.43	69	202038	18.686	ug/l	83
52) 1,3-Dichloropropane	10.71	76	293552	20.139	ug/l	98
53) Dibromochloromethane	10.90	129	220955	18.912	ug/l	95
54) 1,2-Dibromoethane	11.00	107	202503	20.428	ug/l	97
55) 2-Chloroethyl vinyl ether	9.69	63	526537	113.913	ug/l #	92
56) Bromoform	12.13	173	130696	16.962	ug/l	94
58) 4-Methyl-2-Pentanone	9.98	43	560914	91.611	ug/l #	85
59) 2-Hexanone	10.75	43	377189	91.314	ug/l #	89
61) Tetrachloroethene	10.63	164	245044	20.942	ug/l	95
62) Toluene	10.16	91	950830	20.919	ug/l	99
64) Chlorobenzene	11.43	112	649634	21.823	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.51	131	236870	20.731	ug/l	99
66) Ethyl Benzene	11.51	91	1021537	20.335	ug/l	97
67) m/p-Xylenes	11.62	106	833877	40.944	ug/l	95
68) o-Xylene	11.95	106	406107	20.227	ug/l	87
69) Styrene	11.96	104	643424	20.887	ug/l	95
70) Isopropylbenzene	12.25	105	1086702	20.297	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.50	83	197374	18.667	ug/l	96
72) 1,2,3-Trichloropropane	12.55	75	169221m	20.344	ug/l	
73) Bromobenzene	12.53	156	297219	22.412	ug/l	75
74) n-propylbenzene	12.59	91	1144792	19.878	ug/l	92
75) 2-Chlorotoluene	12.67	91	675268	20.000	ug/l	89
76) 1,3,5-Trimethylbenzene	12.73	105	872542	19.707	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	41091	14.937	ug/l	97
78) 4-Chlorotoluene	12.77	91	674501	20.333	ug/l	87
79) tert-butylbenzene	12.99	119	801379	19.682	ug/l	93
80) 1,2,4-Trimethylbenzene	13.04	105	881655	19.925	ug/l	96
81) sec-Butylbenzene	13.17	105	1049841	19.710	ug/l	96
82) p-Isopropyltoluene	13.29	119	937600	19.672	ug/l	95
83) 1,3-Dichlorobenzene	13.28	146	511820	21.872	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	487827	22.144	ug/l	99
85) n-Butylbenzene	13.61	91	685126	19.062	ug/l	93
86) Hexachloroethane	13.87	117	131292	15.976	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	475453	20.987	ug/l	95
88) 1,2-Dibromo-3-Chloropropan	14.27	75	20651	13.078	ug/l #	63
89) 1,2,4-Trichlorobenzene	14.91	180	171158	19.174	ug/l	98
90) Hexachlorobutadiene	15.01	225	116481	15.954	ug/l	96
91) Naphthalene	15.13	128	301865	18.275	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	135784	13.174	ug/l	94

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

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