

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070319\
 Data File : VN056586.D
 Acq On : 3 Jul 2019 14:35
 Operator : JC/SP
 Sample : VN0703WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0703WBSD01

Manual Integrations
 APPROVED

MMDadoda
 7/8/2019 10:05:24 AM

Quant Time: Jul 03 22:33:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N070319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 03 11:05:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	49221	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	274166	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	238139	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	102421	30.18	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.60%
60) 4-Bromofluorobenzene	12.40	95	107679	29.43	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.10%
63) Toluene-d8	10.09	98	336600	30.42	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	51620	20.913	ug/l 96
3) Chloromethane	2.06	50	71198	19.874	ug/l 99
4) Vinyl Chloride	2.18	62	69947	20.745	ug/l 99
5) Bromomethane	2.53	94	43923m	24.415	ug/l
6) Chloroethane	2.68	64	38606	20.675	ug/l 95
7) Trichlorofluoromethane	3.00	101	93804	21.674	ug/l 94
8) Diethyl Ether	3.41	74	38471	20.956	ug/l 92
9) 1,1,2-Trichlorotrifluoroet	3.75	101	56466	20.591	ug/l 94
10) 1,1-Dichloroethene	3.73	96	55640	20.680	ug/l 96
11) Methyl Iodide	3.95	142	74868	19.459	ug/l 98
12) Methyl Acetate	4.33	43	73865	20.357	ug/l 96
13) Acrolein	3.61	56	33972	95.892	ug/l 94
14) Acrylonitrile	4.99	53	168145	105.539	ug/l 100
15) Acetone	3.82	58	44946	101.109	ug/l 94
16) Carbon Disulfide	4.05	76	124337	19.219	ug/l 100
17) Allyl chloride	4.32	41	94046	19.974	ug/l 97
18) Methylene Chloride	4.55	84	63561	19.981	ug/l 89
19) trans-1,2-Dichloroethene	5.04	96	59265	20.309	ug/l 94
20) Diisopropyl ether	5.95	45	203055	20.874	ug/l 98
21) 1,1-Dichloroethane	5.85	63	112954	20.584	ug/l 97
22) cis-1,2-Dichloroethene	6.83	96	69565	20.272	ug/l 94
23) tert-Butyl Alcohol	4.80	59	63426	106.423	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	181969	20.448	ug/l 98
25) Chloroform	7.37	83	110663	20.575	ug/l 99
26) Cyclohexane	7.65	56	103087	20.396	ug/l # 94
29) 1,1-Dichloropropene	7.79	75	81129	20.039	ug/l 98
30) 2-Butanone	6.84	43	222980	99.349	ug/l # 93
31) 2,2-Dichloropropane	6.82	77	70773	18.180	ug/l 97
32) 1,1,1-Trichloroethane	7.57	97	86429	20.025	ug/l 98
33) Carbon Tetrachloride	7.77	117	72429	19.796	ug/l 99
34) Benzene	8.04	78	260696	20.592	ug/l 99
35) Methacrylonitrile	7.18	41	39109	19.621	ug/l 96
36) 1,2-Dichloroethane	8.12	62	84638	20.570	ug/l 96
37) Trichloroethene	8.83	130	67502	20.444	ug/l 95
38) Methylcyclohexane	9.08	83	101660	20.037	ug/l 99
39) 1,2-Dichloropropane	9.12	63	71291	20.919	ug/l 97
40) Dibromomethane	9.21	93	43318	20.563	ug/l 93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	77161	19.763	ug/l	100
42) Vinyl Acetate	5.90	43	815406	102.033	ug/l	98
43) Ethyl Acetate	6.93	43	88450	20.372	ug/l	96
44) Isopropyl Acetate	8.17	43	136032	20.082	ug/l #	86
45) 1,4-Dioxane	9.20	88	28067	423.467	ug/l	87
46) Methyl methacrylate	9.20	41	67304	20.222	ug/l	94
47) n-amyl Acetate	12.07	43	110068	19.549	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	80340	19.199	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	94546	19.589	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	63814	20.563	ug/l	96
51) Ethyl methacrylate	10.43	69	99497	20.356	ug/l	94
52) 1,3-Dichloropropane	10.71	76	109060	20.681	ug/l	99
53) Dibromochloromethane	10.90	129	58317	19.172	ug/l	100
54) 1,2-Dibromoethane	11.00	107	65059	20.119	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	248947	99.953	ug/l	98
56) Bromoform	12.13	173	40353	18.257	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	445041	103.941	ug/l	97
59) 2-Hexanone	10.75	43	321239	101.107	ug/l	98
61) Tetrachloroethene	10.63	164	62769	21.000	ug/l	98
62) Toluene	10.16	91	275240	20.709	ug/l	100
64) Chlorobenzene	11.43	112	163223	20.385	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	59161	20.515	ug/l	98
66) Ethyl Benzene	11.51	91	289776	20.108	ug/l	98
67) m/p-Xylenes	11.62	106	218630	41.110	ug/l	95
68) o-Xylene	11.95	106	107750	20.487	ug/l	97
69) Styrene	11.96	104	175638	20.071	ug/l	98
70) Isopropylbenzene	12.25	105	281285	20.498	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	92315	20.348	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	75282m	19.732	ug/l	
73) Bromobenzene	12.53	156	71724	20.266	ug/l	90
74) n-propylbenzene	12.59	91	309571	19.884	ug/l	97
75) 2-Chlorotoluene	12.67	91	189249	20.329	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	236274	20.333	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	21834	17.867	ug/l	98
78) 4-Chlorotoluene	12.77	91	183576	20.276	ug/l	96
79) tert-butylbenzene	12.99	119	202622	20.409	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	231239	20.148	ug/l	98
81) sec-Butylbenzene	13.17	105	264485	20.089	ug/l	98
82) p-Isopropyltoluene	13.29	119	236191	19.954	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	116458	19.815	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	109496	19.313	ug/l	99
85) n-Butylbenzene	13.61	91	187707	18.870	ug/l	97
86) Hexachloroethane	13.87	117	32768	18.359	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	117494	19.686	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	14937	18.374	ug/l	91
89) 1,2,4-Trichlorobenzene	14.91	180	56508	17.129	ug/l	99
90) Hexachlorobutadiene	15.01	225	40079	19.554	ug/l	98
91) Naphthalene	15.13	128	160303	17.316	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	62309	17.992	ug/l	99

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

