

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111618\
 Data File : VN052355.D
 Acq On : 16 Nov 2018 11:01
 Operator : MD\SY
 Sample : VN1116WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1116WBS01

Manual Integrations
 APPROVED

MMDadoda
 11/19/2018 12:45:52 PM

Quant Time: Nov 16 23:15:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 02 05:39:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	42664	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	249399	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	220557	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	110681	34.95	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	116.50%
60) 4-Bromofluorobenzene	12.40	95	105436	29.88	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.60%
63) Toluene-d8	10.09	98	310724	29.96	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.87%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	61368	21.537	ug/l 98
3) Chloromethane	2.06	50	65886	20.231	ug/l 100
4) Vinyl Chloride	2.19	62	57258	17.923	ug/l 98
5) Bromomethane	2.57	94	33569	15.394	ug/l 98
6) Chloroethane	2.71	64	32833	16.073	ug/l 99
7) Trichlorofluoromethane	3.02	101	86195	19.924	ug/l 99
8) Diethyl Ether	3.41	74	30701	21.018	ug/l 79
9) 1,1,2-Trichlorotrifluoroet	3.76	101	53311	21.084	ug/l 97
10) 1,1-Dichloroethene	3.74	96	44657	18.928	ug/l 99
11) Methyl Iodide	3.96	142	61208	17.943	ug/l 100
12) Methyl Acetate	4.33	43	54145	27.265	ug/l 95
13) Acrolein	3.61	56	16144	76.643	ug/l 91
14) Acrylonitrile	4.99	53	98944	112.351	ug/l 98
15) Acetone	3.82	58	28324m	136.081	ug/l
16) Carbon Disulfide	4.06	76	113506	16.293	ug/l 98
17) Allyl chloride	4.33	41	87464	21.834	ug/l 93
18) Methylene Chloride	4.55	84	55117	18.926	ug/l # 82
19) trans-1,2-Dichloroethene	5.05	96	48639	18.815	ug/l 97
20) Diisopropyl ether	5.95	45	207834	23.875	ug/l 95
21) 1,1-Dichloroethane	5.85	63	106597	20.954	ug/l 97
22) cis-1,2-Dichloroethene	6.83	96	55683	18.446	ug/l 88
23) tert-Butyl Alcohol	4.77	59	19307m	140.707	ug/l
24) Methyl tert-Butyl Ether	5.05	73	141259	21.119	ug/l 92
25) Chloroform	7.37	83	102470	20.060	ug/l 97
26) Cyclohexane	7.66	56	88885	19.491	ug/l # 91
29) 1,1-Dichloropropene	7.80	75	75135	18.976	ug/l 99
30) 2-Butanone	6.84	43	139931	132.703	ug/l # 82
31) 2,2-Dichloropropane	6.82	77	80536	19.745	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	84797	19.140	ug/l 95
33) Carbon Tetrachloride	7.77	117	76302	19.366	ug/l 98
34) Benzene	8.04	78	219943	18.971	ug/l 95
35) Methacrylonitrile	7.17	41	27280	18.862	ug/l # 71
36) 1,2-Dichloroethane	8.13	62	83912	21.647	ug/l 98
37) Trichloroethene	8.84	130	55209	19.026	ug/l 97
38) Methylcyclohexane	9.08	83	84541	17.503	ug/l 94
39) 1,2-Dichloropropane	9.12	63	63210	20.481	ug/l 95
40) Dibromomethane	9.21	93	37015	19.458	ug/l 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	79315	20.378	ug/l	97
42) Vinyl Acetate	5.90	43	689584	111.708	ug/l	96
43) Ethyl Acetate	6.84	43	139931	26.406	ug/l #	86
44) Isopropyl Acetate	8.17	43	108401	24.707	ug/l #	86
45) 1,4-Dioxane	9.20	88	9661	482.680	ug/l #	75
46) Methyl methacrylate	9.20	41	54541	24.973	ug/l	92
47) n-amyl Acetate	12.07	43	90384	22.726	ug/l #	100
48) t-1,3-Dichloropropene	10.38	75	77541	20.063	ug/l	94
49) cis-1,3-Dichloropropene	9.84	75	89669	20.101	ug/l #	89
50) 1,1,2-Trichloroethane	10.56	97	48891	19.436	ug/l	93
51) Ethyl methacrylate	10.43	69	65166	20.045	ug/l	78
52) 1,3-Dichloropropane	10.71	76	88179	20.125	ug/l	99
53) Dibromochloromethane	10.90	129	53498	19.700	ug/l	98
54) 1,2-Dibromoethane	11.00	107	48388	18.969	ug/l	97
55) 2-Chloroethyl vinyl ether	9.69	63	193677	108.792	ug/l	99
56) Bromoform	12.12	173	31577	20.132	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	299037	126.529	ug/l	95
59) 2-Hexanone	10.75	43	210468	129.338	ug/l	94
61) Tetrachloroethene	10.63	164	53066	22.123	ug/l	92
62) Toluene	10.16	91	238569	19.269	ug/l	99
64) Chlorobenzene	11.43	112	147115	18.748	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.51	131	52520	19.665	ug/l	99
66) Ethyl Benzene	11.51	91	256538	19.182	ug/l	97
67) m/p-Xylenes	11.62	106	189593	36.822	ug/l	97
68) o-Xylene	11.95	106	92939	18.933	ug/l	98
69) Styrene	11.96	104	150661	19.046	ug/l	97
70) Isopropylbenzene	12.25	105	254528	19.315	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	60079	20.727	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	51236m	20.104	ug/l	
73) Bromobenzene	12.53	156	58228	19.941	ug/l	97
74) n-propylbenzene	12.59	91	301975	19.678	ug/l	98
75) 2-Chlorotoluene	12.67	91	177090	20.016	ug/l	97
76) 1,3,5-Trimethylbenzene	12.73	105	210032	19.876	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	15792	19.804	ug/l	87
78) 4-Chlorotoluene	12.77	91	176388	19.798	ug/l	99
79) tert-butylbenzene	12.99	119	179445	19.495	ug/l	95
80) 1,2,4-Trimethylbenzene	13.04	105	211641	20.105	ug/l	99
81) sec-Butylbenzene	13.17	105	251824	19.879	ug/l	99
82) p-Isopropyltoluene	13.29	119	214528	20.039	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	103118	19.965	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	101318	19.815	ug/l	97
85) n-Butylbenzene	13.62	91	188413	20.335	ug/l	98
86) Hexachloroethane	13.87	117	36174	20.024	ug/l	94
87) 1,2-Dichlorobenzene	13.65	146	101196	20.622	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	9323	23.522	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	43802	21.989	ug/l	99
90) Hexachlorobutadiene	15.01	225	26064	23.915	ug/l	94
91) Naphthalene	15.13	128	98233	21.395	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	41464	23.883	ug/l	98

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

