

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072419\
 Data File : VN056899.D
 Acq On : 24 Jul 2019 1:30
 Operator : JC/SP
 Sample : VN0724WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0724WBSD01

Manual Integrations
 APPROVED

MMDadoda
 7/25/2019 2:20:30 PM

Quant Time: Jul 24 04:15:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 24 03:39:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	57862	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	313381	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	271324	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	114295	30.18	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.60%
60) 4-Bromofluorobenzene	12.40	95	119482	29.38	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.93%
63) Toluene-d8	10.09	98	388922	30.34	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.13%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	71689	20.722	ug/l 97
3) Chloromethane	2.06	50	89418	21.181	ug/l 98
4) Vinyl Chloride	2.19	62	84221	20.693	ug/l 97
5) Bromomethane	2.56	94	51799	20.728	ug/l 99
6) Chloroethane	2.70	64	47461	21.022	ug/l 99
7) Trichlorofluoromethane	3.01	101	103556	20.893	ug/l 99
8) Diethyl Ether	3.41	74	37465	20.286	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.75	101	62829	20.184	ug/l 98
10) 1,1-Dichloroethene	3.73	96	65698	21.268	ug/l 97
11) Methyl Iodide	3.94	142	89557	19.597	ug/l 98
12) Methyl Acetate	4.33	43	68161	18.030	ug/l 97
13) Acrolein	3.61	56	38866	90.839	ug/l 97
14) Acrylonitrile	4.99	53	144243	98.934	ug/l 98
15) Acetone	3.82	58	37807	100.301	ug/l 97
16) Carbon Disulfide	4.04	76	164597	19.761	ug/l 98
17) Allyl chloride	4.32	41	100383	19.420	ug/l 99
18) Methylene Chloride	4.55	84	76154	21.181	ug/l 97
19) trans-1,2-Dichloroethene	5.03	96	67543	20.661	ug/l 97
20) Diisopropyl ether	5.95	45	218348	20.805	ug/l 98
21) 1,1-Dichloroethane	5.85	63	125877	20.638	ug/l 98
22) cis-1,2-Dichloroethene	6.83	96	76703	20.244	ug/l 98
23) tert-Butyl Alcohol	4.81	59	49398	101.527	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	188022	20.132	ug/l 100
25) Chloroform	7.37	83	123623	20.777	ug/l 97
26) Cyclohexane	7.65	56	113609	20.277	ug/l # 100
29) 1,1-Dichloropropene	7.79	75	91161	20.499	ug/l 98
30) 2-Butanone	6.84	43	173757	97.250	ug/l 99
31) 2,2-Dichloropropane	6.82	77	70890	17.177	ug/l 97
32) 1,1,1-Trichloroethane	7.57	97	100804	20.630	ug/l 99
33) Carbon Tetrachloride	7.77	117	87038	20.408	ug/l 98
34) Benzene	8.04	78	288638	20.599	ug/l 98
35) Methacrylonitrile	7.18	41	38116	21.362	ug/l 97
36) 1,2-Dichloroethane	8.12	62	88453	20.305	ug/l 98
37) Trichloroethene	8.83	130	76446	20.349	ug/l 95
38) Methylcyclohexane	9.08	83	110112	19.464	ug/l 98
39) 1,2-Dichloropropane	9.12	63	76311	20.402	ug/l 100
40) Dibromomethane	9.21	93	47197	20.570	ug/l 99

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

41) Bromodichloromethane	9.40	83	88710	20.120	ug/l	99
42) Vinyl Acetate	5.90	43	793959	99.784	ug/l	100
43) Ethyl Acetate	6.93	43	72959	19.919	ug/l	98
44) Isopropyl Acetate	8.17	43	121682	19.930	ug/l #	86
45) 1,4-Dioxane	9.20	88	23429	403.089	ug/l	96
46) Methyl methacrylate	9.20	41	59199	19.436	ug/l	98
47) n-amyl Acetate	12.07	43	93227	19.075	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	86207	18.789	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	101569	18.997	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	69426	21.074	ug/l	98
51) Ethyl methacrylate	10.43	69	94343	19.799	ug/l	98
52) 1,3-Dichloropropane	10.71	76	113972	20.499	ug/l	99
53) Dibromochloromethane	10.90	129	67602	19.742	ug/l	100
54) 1,2-Dibromoethane	11.00	107	67799	20.173	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	190012	92.074	ug/l	100
56) Bromoform	12.12	173	45401	19.162	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	366778	100.734	ug/l	99
59) 2-Hexanone	10.75	43	248032	99.969	ug/l	100
61) Tetrachloroethene	10.63	164	80913	21.278	ug/l	98
62) Toluene	10.15	91	306591	20.777	ug/l	99
64) Chlorobenzene	11.43	112	183509	20.645	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	68502	20.347	ug/l	98
66) Ethyl Benzene	11.51	91	320409	20.605	ug/l	100
67) m/p-Xylenes	11.62	106	238130	41.067	ug/l	99
68) o-Xylene	11.94	106	116848	20.496	ug/l	100
69) Styrene	11.96	104	185818	20.113	ug/l	99
70) Isopropylbenzene	12.25	105	309287	20.604	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	86874	20.662	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	73947m	19.989	ug/l	
73) Bromobenzene	12.52	156	76857	19.841	ug/l	100
74) n-propylbenzene	12.59	91	328761	20.030	ug/l	99
75) 2-Chlorotoluene	12.67	91	204105	20.511	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	259510	20.535	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	19161	16.497	ug/l	98
78) 4-Chlorotoluene	12.77	91	186141	19.678	ug/l	99
79) tert-butylbenzene	12.99	119	223236	20.471	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	252418	20.489	ug/l	99
81) sec-Butylbenzene	13.17	105	284271	19.967	ug/l	100
82) p-Isopropyltoluene	13.29	119	253482	19.824	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	120399	19.741	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	109900	19.058	ug/l	99
85) n-Butylbenzene	13.61	91	183449	18.271	ug/l	97
86) Hexachloroethane	13.87	117	43067	20.126	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	121065	19.985	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	12079	18.570	ug/l	96
89) 1,2,4-Trichlorobenzene	14.90	180	45287	18.871	ug/l	96
90) Hexachlorobutadiene	15.01	225	44191	19.846	ug/l	98
91) Naphthalene	15.13	128	113590	18.284	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	53727	16.776	ug/l	98

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

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