

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN041619\
 Data File : VN055075.D
 Acq On : 16 Apr 2019 13:48
 Operator : JC/SP
 Sample : VN0416WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0416WBS01

Manual Integrations
 APPROVED

MMDadoda
 4/17/2019 4:23:03 AM

Quant Time: Apr 17 01:56:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 12 07:55:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	69319	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	374967	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	328733	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	158403	29.98	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.93%
60) 4-Bromofluorobenzene	12.40	95	152897	29.88	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.60%
63) Toluene-d8	10.09	98	474657	30.37	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.23%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	78967	19.369	ug/l 99
3) Chloromethane	2.06	50	112995	20.517	ug/l 98
4) Vinyl Chloride	2.19	62	91743	19.263	ug/l 96
5) Bromomethane	2.53	94	50381	18.289	ug/l 96
6) Chloroethane	2.69	64	52149	19.551	ug/l 99
7) Trichlorofluoromethane	3.01	101	116458	19.136	ug/l 95
8) Diethyl Ether	3.41	74	38801	19.857	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.74	101	62929	18.916	ug/l 98
10) 1,1-Dichloroethene	3.72	96	56214	18.276	ug/l 96
11) Methyl Iodide	3.94	142	114508	24.601	ug/l 93
12) Methyl Acetate	4.33	43	88551	23.406	ug/l 95
13) Acrolein	3.60	56	30957	93.366	ug/l 100
14) Acrylonitrile	4.99	53	167061	107.784	ug/l 97
15) Acetone	3.82	58	31875	83.107	ug/l 88
16) Carbon Disulfide	4.04	76	186915	18.117	ug/l 97
17) Allyl chloride	4.31	41	147051	19.414	ug/l 98
18) Methylene Chloride	4.54	84	91111	20.040	ug/l 99
19) trans-1,2-Dichloroethene	5.04	96	79212	19.784	ug/l 92
20) Diisopropyl ether	5.96	45	314564	20.500	ug/l 99
21) 1,1-Dichloroethane	5.84	63	165505	20.194	ug/l 99
22) cis-1,2-Dichloroethene	6.82	96	93299	20.048	ug/l 99
23) tert-Butyl Alcohol	4.82	59	21606	87.423	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	215944	20.909	ug/l # 64
25) Chloroform	7.37	83	158587	20.201	ug/l 98
26) Cyclohexane	7.65	56	146743	19.297	ug/l # 96
29) 1,1-Dichloropropene	7.79	75	113877	19.501	ug/l 98
30) 2-Butanone	6.85	43	198743	102.528	ug/l 97
31) 2,2-Dichloropropane	6.82	77	104295	19.405	ug/l # 100
32) 1,1,1-Trichloroethane	7.57	97	124790	20.217	ug/l 98
33) Carbon Tetrachloride	7.77	117	102866	19.249	ug/l 98
34) Benzene	8.04	78	350571	20.258	ug/l 99
35) Methacrylonitrile	7.17	41	53069	23.228	ug/l 92
36) 1,2-Dichloroethane	8.12	62	122266	20.672	ug/l 99
37) Trichloroethene	8.83	130	88785	20.125	ug/l 93
38) Methylcyclohexane	9.08	83	125702	18.562	ug/l 99
39) 1,2-Dichloropropane	9.12	63	99848	20.896	ug/l 98
40) Dibromomethane	9.21	93	55594	20.583	ug/l 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	108266	19.423	ug/l	97
42) Vinyl Acetate	5.90	43	1025817	104.677	ug/l	100
43) Ethyl Acetate	6.94	43	84271	21.340	ug/l	98
44) Isopropyl Acetate	8.17	43	143589	21.456	ug/l	99
45) 1,4-Dioxane	9.21	88	9263	249.836	ug/l #	90
46) Methyl methacrylate	9.20	41	72404	20.914	ug/l	96
47) n-amyl Acetate	12.07	43	112113	22.745	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	100686	19.670	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	125409	19.846	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	79799	21.753	ug/l	99
51) Ethyl methacrylate	10.43	69	93070	21.283	ug/l	98
52) 1,3-Dichloropropane	10.71	76	137143	21.335	ug/l	98
53) Dibromochloromethane	10.90	129	74625	19.749	ug/l	98
54) 1,2-Dibromoethane	11.00	107	72282	20.988	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	179306	98.080	ug/l	99
56) Bromoform	12.13	173	45287	19.073	ug/l	97
58) 4-Methyl-2-Pentanone	9.99	43	418970	110.517	ug/l	100
59) 2-Hexanone	10.75	43	260222	108.051	ug/l	99
61) Tetrachloroethene	10.63	164	86981	20.332	ug/l	96
62) Toluene	10.15	91	364927	20.147	ug/l	99
64) Chlorobenzene	11.43	112	224940	20.571	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	79536	20.451	ug/l	98
66) Ethyl Benzene	11.51	91	393501	20.266	ug/l	99
67) m/p-Xylenes	11.62	106	295990	41.012	ug/l	100
68) o-Xylene	11.95	106	148990	20.889	ug/l	98
69) Styrene	11.96	104	224129	20.237	ug/l	99
70) Isopropylbenzene	12.25	105	386233	20.254	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	94431	21.651	ug/l	96
72) 1,2,3-Trichloropropane	12.55	75	83005m	23.044	ug/l	
73) Bromobenzene	12.53	156	90979	20.185	ug/l	98
74) n-propylbenzene	12.59	91	430056	20.145	ug/l	99
75) 2-Chlorotoluene	12.67	91	266431	20.693	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	317009	20.562	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	17681	19.474	ug/l	97
78) 4-Chlorotoluene	12.77	91	248603	20.264	ug/l	98
79) tert-butylbenzene	12.99	119	266822	20.002	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	311568	20.572	ug/l	98
81) sec-Butylbenzene	13.17	105	355248	19.930	ug/l	100
82) p-Isopropyltoluene	13.29	119	295802	19.664	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	153624	20.373	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	136537	19.055	ug/l	99
85) n-Butylbenzene	13.61	91	221959	18.523	ug/l	99
86) Hexachloroethane	13.87	117	45112	18.733	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	153289	20.758	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	11619	20.044	ug/l	88
89) 1,2,4-Trichlorobenzene	14.91	180	57082	17.290	ug/l	96
90) Hexachlorobutadiene	15.01	225	47466	19.719	ug/l	98
91) Naphthalene	15.13	128	120918	17.491	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	57621	17.451	ug/l	97

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

