

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060619\
 Data File : VN056017.D
 Acq On : 5 Jun 2019 19:43
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 6/6/2019 10:19:34 AM

Quant Time: Jun 06 03:52:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 03:18:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	55849	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	302412	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	270530	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	103156	28.48	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	94.93%
60) 4-Bromofluorobenzene	12.40	95	122623	29.49	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.30%
63) Toluene-d8	10.09	98	364371	29.48	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.27%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	158628	60.362	ug/l 100
3) Chloromethane	2.06	50	184208	52.555	ug/l 98
4) Vinyl Chloride	2.18	62	187768	52.124	ug/l 99
5) Bromomethane	2.53	94	119982	55.436	ug/l 99
6) Chloroethane	2.68	64	109430	52.245	ug/l 94
7) Trichlorofluoromethane	3.00	101	227386	50.353	ug/l 98
8) Diethyl Ether	3.40	74	95070	48.420	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.74	101	139516	49.303	ug/l 98
10) 1,1-Dichloroethene	3.72	96	145051	49.365	ug/l 99
11) Methyl Iodide	3.94	142	233838	54.708	ug/l 98
12) Methyl Acetate	4.33	43	163980	45.774	ug/l 99
13) Acrolein	3.60	56	42642	97.531	ug/l 97
14) Acrylonitrile	4.99	53	385532	238.060	ug/l 98
15) Acetone	3.82	58	130880	255.539	ug/l 95
16) Carbon Disulfide	4.04	76	347101	43.125	ug/l 100
17) Allyl chloride	4.31	41	225995	44.098	ug/l 99
18) Methylene Chloride	4.54	84	165839	49.230	ug/l 99
19) trans-1,2-Dichloroethene	5.03	96	154376	48.861	ug/l 97
20) Diisopropyl ether	5.96	45	462129	45.618	ug/l 95
21) 1,1-Dichloroethane	5.84	63	268991	46.944	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	181481	49.236	ug/l 99
23) tert-Butyl Alcohol	4.81	59	149834	216.214	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	461006	46.839	ug/l 98
25) Chloroform	7.37	83	269776	47.480	ug/l 98
26) Cyclohexane	7.65	56	245680	46.321	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	205432	49.054	ug/l 100
30) 2-Butanone	6.84	43	547919	246.241	ug/l 100
31) 2,2-Dichloropropane	6.82	77	189929	40.780	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	226312	46.248	ug/l 99
33) Carbon Tetrachloride	7.77	117	191708	44.420	ug/l 99
34) Benzene	8.04	78	655144	50.302	ug/l # 93
35) Methacrylonitrile	7.17	41	97464	47.003	ug/l 95
36) 1,2-Dichloroethane	8.12	62	203252	48.258	ug/l 98
37) Trichloroethene	8.83	130	181076	49.684	ug/l 97
38) Methylcyclohexane	9.08	83	253104	47.718	ug/l 98
39) 1,2-Dichloropropane	9.12	63	166758	48.036	ug/l 96
40) Dibromomethane	9.21	93	110240	48.877	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	201206	44.987	ug/l	99
42) Vinyl Acetate	5.90	43	1959068	230.902	ug/l	100
43) Ethyl Acetate	6.93	43	206166	47.492	ug/l	100
44) Isopropyl Acetate	8.17	43	323183	45.558	ug/l	98
45) 1,4-Dioxane	9.20	88	69238	1005.959	ug/l	98
46) Methyl methacrylate	9.20	41	159777	48.127	ug/l	98
47) n-amyl Acetate	12.07	43	272512	46.596	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	215008	44.038	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	248874	45.869	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	163849	49.895	ug/l	97
51) Ethyl methacrylate	10.43	69	251509	48.366	ug/l	98
52) 1,3-Dichloropropane	10.71	76	267600	49.606	ug/l	99
53) Dibromochloromethane	10.90	129	166531	44.845	ug/l	98
54) 1,2-Dibromoethane	11.00	107	173928	51.189	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	440140	221.756	ug/l	100
56) Bromoform	12.13	173	120396	40.649	ug/l #	99
58) 4-Methyl-2-Pentanone	9.99	43	1013866	231.846	ug/l	100
59) 2-Hexanone	10.75	43	728683	232.660	ug/l	99
61) Tetrachloroethene	10.63	164	184234	50.156	ug/l	99
62) Toluene	10.16	91	718188	49.501	ug/l	99
64) Chlorobenzene	11.43	112	439967	50.032	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	160116	46.302	ug/l	98
66) Ethyl Benzene	11.51	91	766927	48.628	ug/l	100
67) m/p-Xylenes	11.62	106	587865	98.050	ug/l	98
68) o-Xylene	11.95	106	287521	48.580	ug/l	99
69) Styrene	11.96	104	482836	49.606	ug/l	99
70) Isopropylbenzene	12.25	105	754774	48.702	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	229148	48.285	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	196201m	48.302	ug/l	
73) Bromobenzene	12.53	156	202083	49.307	ug/l	98
74) n-propylbenzene	12.59	91	815649	49.166	ug/l	100
75) 2-Chlorotoluene	12.67	91	496909	48.928	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	620449	48.589	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	58550	38.570	ug/l	94
78) 4-Chlorotoluene	12.77	91	476697	49.733	ug/l	100
79) tert-butylbenzene	12.99	119	544238	48.556	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	615948	48.800	ug/l	100
81) sec-Butylbenzene	13.17	105	705763	49.511	ug/l	100
82) p-Isopropyltoluene	13.29	119	642511	49.203	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	325935	51.028	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	311223	51.343	ug/l	100
85) n-Butylbenzene	13.61	91	488443	48.682	ug/l	100
86) Hexachloroethane	13.87	117	100668	41.150	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	327039	50.844	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	37300	43.631	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	163259	47.981	ug/l	99
90) Hexachlorobutadiene	15.01	225	116351	45.709	ug/l	98
91) Naphthalene	15.13	128	443580	47.870	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	174108	48.858	ug/l	99

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

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