

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102620\
 Data File : VN064306.D
 Acq On : 26 Oct 2020 16:42
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 10/27/2020 2:21:00 PM

Quant Time: Oct 26 17:10:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102620W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Oct 26 16:34:22 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	50794	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	277880	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	259393	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	135400	30.34	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.13%
60) 4-Bromofluorobenzene	12.38	95	140023	30.34	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	101.13%
63) Toluene-d8	10.06	98	352169	30.43	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.43%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	211981	63.125 ug/l	94
3) Chloromethane	2.04	50	191046	55.312 ug/l	98
4) Vinyl Chloride	2.16	62	190831	54.841 ug/l	98
5) Bromomethane	2.53	94	116082	51.405 ug/l	95
6) Chloroethane	2.67	64	105914	52.447 ug/l	98
7) Trichlorofluoromethane	2.98	101	297913	51.218 ug/l	94
8) Diethyl Ether	3.37	74	93797	49.143 ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.72	101	148075	51.655 ug/l	99
10) 1,1-Dichloroethene	3.69	96	139806	50.607 ug/l	97
11) Methyl Iodide	3.91	142	204791	51.425 ug/l	98
12) Methyl Acetate	4.28	43	165661	50.588 ug/l	96
13) Acrolein	3.56	56	53143	205.040 ug/l	90
14) Acrylonitrile	4.93	53	375452	288.731 ug/l	99
15) Acetone	3.78	58	98235	247.017 ug/l	92
16) Carbon Disulfide	4.01	76	411745	51.286 ug/l	99
17) Allyl chloride	4.27	41	281993	53.170 ug/l	99
18) Methylene Chloride	4.50	84	160619	49.356 ug/l	98
19) trans-1,2-Dichloroethene	4.98	96	151690	48.989 ug/l	99
20) Diisopropyl ether	5.90	45	550146	53.823 ug/l	93
21) 1,1-Dichloroethane	5.80	63	305838	50.809 ug/l	99
22) cis-1,2-Dichloroethene	6.78	96	176075	49.008 ug/l #	76
23) tert-Butyl Alcohol	4.73	59	167492	280.897 ug/l #	100
24) Methyl tert-Butyl Ether	4.99	73	537289	54.607 ug/l	98
25) Chloroform	7.33	83	318550	49.003 ug/l	95
26) Cyclohexane	7.61	56	252413	53.789 ug/l #	98
29) 1,1-Dichloropropene	7.75	75	240128	51.097 ug/l	98
30) 2-Butanone	6.78	43	569011	270.922 ug/l #	98
31) 2,2-Dichloropropane	6.77	77	290352	49.711 ug/l #	90
32) 1,1,1-Trichloroethane	7.53	97	306754	51.049 ug/l	98
33) Carbon Tetrachloride	7.73	117	283173	52.521 ug/l	96
34) Benzene	8.00	78	648935	50.455 ug/l #	90
35) Methacrylonitrile	7.14	41	129086m	61.090 ug/l	
36) 1,2-Dichloroethane	8.08	62	287843m	51.728 ug/l	
37) Trichloroethene	8.80	130	176020	50.149 ug/l	99
38) Methylcyclohexane	9.05	83	235752	54.583 ug/l	99
39) 1,2-Dichloropropane	9.08	63	175758	50.716 ug/l	99
40) Dibromomethane	9.17	93	123671	51.574 ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	264922	51.026	ug/l	97
42) Vinyl Acetate	5.84	43	2441400	264.274	ug/l	100
43) Ethyl Acetate	6.88	43	238930	53.724	ug/l #	78
44) Isopropyl Acetate	8.13	43	423648	53.307	ug/l	96
45) 1,4-Dioxane	9.17	88	64333	1255.664	ug/l	99
46) Methyl methacrylate	9.16	41	213030	55.144	ug/l	98
47) n-amyl Acetate	12.04	43	367697	53.422	ug/l	100
48) t-1,3-Dichloropropene	10.35	75	297530	50.995	ug/l	96
49) cis-1,3-Dichloropropene	9.81	75	304825	50.519	ug/l	97
50) 1,1,2-Trichloroethane	10.53	97	162905	50.823	ug/l	93
51) Ethyl methacrylate	10.40	69	259087	52.513	ug/l	98
52) 1,3-Dichloropropane	10.68	76	286812	50.926	ug/l	99
53) Dibromochloromethane	10.87	129	202474	50.973	ug/l	98
54) 1,2-Dibromoethane	10.97	107	173738	50.692	ug/l	99
55) 2-Chloroethyl vinyl ether	9.66	63	663653	258.379	ug/l	99
56) Bromoform	12.10	173	143756	50.664	ug/l #	96
58) 4-Methyl-2-Pentanone	9.95	43	1215277	271.818	ug/l	100
59) 2-Hexanone	10.72	43	909495	270.254	ug/l	100
61) Tetrachloroethene	10.60	164	173698	49.410	ug/l	97
62) Toluene	10.13	91	716293	49.380	ug/l	100
64) Chlorobenzene	11.41	112	446751	49.887	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.48	131	180687	50.263	ug/l	97
66) Ethyl Benzene	11.48	91	819529	49.077	ug/l	95
67) m/p-Xylenes	11.60	106	609823	99.258	ug/l	95
68) o-Xylene	11.92	106	295272	49.453	ug/l	98
69) Styrene	11.94	104	498026	49.935	ug/l	97
70) Isopropylbenzene	12.22	105	779498	49.182	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.48	83	222598	51.263	ug/l	99
72) 1,2,3-Trichloropropane	12.53	75	240264m	52.606	ug/l	
73) Bromobenzene	12.50	156	192814	49.933	ug/l	99
74) n-propylbenzene	12.57	91	893831	49.388	ug/l	99
75) 2-Chlorotoluene	12.65	91	549990	48.753	ug/l	98
76) 1,3,5-Trimethylbenzene	12.71	105	660035	49.171	ug/l	97
77) t-1,4-Dichloro-2-butene	12.27	75	86935	49.747	ug/l	95
78) 4-Chlorotoluene	12.75	91	579809	49.564	ug/l	99
79) tert-butylbenzene	12.97	119	541819	49.590	ug/l	98
80) 1,2,4-Trimethylbenzene	13.01	105	666198	48.858	ug/l	99
81) sec-Butylbenzene	13.14	105	691932	48.840	ug/l	100
82) p-Isopropyltoluene	13.26	119	645698	49.661	ug/l	98
83) 1,3-Dichlorobenzene	13.25	146	330010	48.772	ug/l	99
84) 1,4-Dichlorobenzene	13.34	146	335790	48.880	ug/l	98
85) n-Butylbenzene	13.59	91	546310	48.067	ug/l	98
86) Hexachloroethane	13.85	117	120370	53.472	ug/l	99
87) 1,2-Dichlorobenzene	13.63	146	325244	49.066	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.24	75	59305	55.853	ug/l	99
89) 1,2,4-Trichlorobenzene	14.88	180	182048	48.611	ug/l	98
90) Hexachlorobutadiene	14.98	225	97607	47.827	ug/l	98
91) Naphthalene	15.10	128	567492	51.125	ug/l	99
92) 1,2,3-Trichlorobenzene	15.28	180	174113	48.414	ug/l	98

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

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