

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102320\
 Data File : VX019070.D
 Acq On : 23 Oct 2020 10:38
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 10/26/2020 11:20:43 AM

Quant Time: Oct 23 11:52:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102320W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 23 11:41:37 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	50564	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	279324	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	253397	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	100071	30.64	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.13%
60) 4-Bromofluorobenzene	11.12	95	111786	28.64	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.47%
63) Toluene-d8	8.70	98	335555	30.00	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	132234	55.085	ug/l 99
3) Chloromethane	1.31	50	122064	47.328	ug/l 99
4) Vinyl Chloride	1.39	62	156951	48.377	ug/l 98
5) Bromomethane	1.64	94	121183	59.891	ug/l 100
6) Chloroethane	1.72	64	105060	46.961	ug/l 98
7) Trichlorofluoromethane	1.92	101	270558	52.327	ug/l 96
8) Diethyl Ether	2.17	74	102623	50.604	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	129709	46.227	ug/l 99
10) 1,1-Dichloroethene	2.36	96	131940	45.288	ug/l 96
11) Methyl Iodide	2.50	142	129148	39.249	ug/l 97
12) Methyl Acetate	2.75	43	131667	45.911	ug/l 97
13) Acrolein	2.28	56	50715	100.373	ug/l 99
14) Acrylonitrile	3.12	53	308315	231.543	ug/l 100
15) Acetone	2.42	58	85145	200.894	ug/l 93
16) Carbon Disulfide	2.55	76	364434	50.041	ug/l 99
17) Allyl chloride	2.71	41	166755	44.453	ug/l 99
18) Methylene Chloride	2.84	84	151086	50.516	ug/l 97
19) trans-1,2-Dichloroethene	3.14	96	153566	51.059	ug/l 98
20) Diisopropyl ether	3.82	45	337824	47.878	ug/l 97
21) 1,1-Dichloroethane	3.67	63	248183	50.814	ug/l 99
22) cis-1,2-Dichloroethene	4.56	96	179569	52.515	ug/l 100
23) tert-Butyl Alcohol	3.03	59	143977	199.890	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	420557	51.373	ug/l 99
25) Chloroform	5.18	83	275331	52.795	ug/l 98
26) Cyclohexane	5.55	56	190801	48.940	ug/l # 100
29) 1,1-Dichloropropene	5.77	75	208771	52.551	ug/l 99
30) 2-Butanone	4.64	43	413605	216.241	ug/l 100
31) 2,2-Dichloropropane	4.55	77	238432	51.145	ug/l 99
32) 1,1,1-Trichloroethane	5.46	97	248895	51.613	ug/l 99
33) Carbon Tetrachloride	5.76	117	218107	49.949	ug/l 97
34) Benzene	6.11	78	614853	52.239	ug/l 98
35) Methacrylonitrile	5.00	41	90144	44.954	ug/l 95
36) 1,2-Dichloroethane	6.16	62	210705	54.090	ug/l 100
37) Trichloroethene	7.19	130	177113	51.619	ug/l 100
38) Methylcyclohexane	7.44	83	233234	51.663	ug/l 100
39) 1,2-Dichloropropane	7.49	63	144320	50.685	ug/l 97
40) Dibromomethane	7.64	93	110922	52.596	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.88	83	222278	52.129	ug/l	99
42) Vinyl Acetate	3.79	43	1621163	232.927	ug/l	99
43) Ethyl Acetate	4.79	43	175027	43.849	ug/l	98
44) Isopropyl Acetate	6.41	43	295106	46.005	ug/l	99
45) 1,4-Dioxane	7.73	88	60281	886.566	ug/l	99
46) Methyl methacrylate	7.74	41	140516	46.950	ug/l	99
47) n-amyl Acetate	10.88	43	237458	45.100	ug/l	99
48) t-1,3-Dichloropropene	9.02	75	247752	51.169	ug/l	99
49) cis-1,3-Dichloropropene	8.42	75	264564	51.365	ug/l	99
50) 1,1,2-Trichloroethane	9.20	97	162795	54.159	ug/l	98
51) Ethyl methacrylate	9.16	69	241046	51.397	ug/l	98
52) 1,3-Dichloropropane	9.35	76	263180	52.908	ug/l	99
53) Dibromochloromethane	9.57	129	182298	51.988	ug/l	100
54) 1,2-Dibromoethane	9.65	107	175357	53.064	ug/l	99
55) 2-Chloroethyl vinyl ether	8.29	63	623485	245.942	ug/l	100
56) Bromoform	10.84	173	121802	45.411	ug/l	99
58) 4-Methyl-2-Pentanone	8.62	43	867264	223.004	ug/l	100
59) 2-Hexanone	9.48	43	639558	215.889	ug/l	99
61) Tetrachloroethene	9.32	164	157544	51.250	ug/l	93
62) Toluene	8.77	91	699421	52.161	ug/l	100
64) Chlorobenzene	10.12	112	438049	51.975	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	159232	49.142	ug/l	99
66) Ethyl Benzene	10.23	91	761430	51.661	ug/l	99
67) m/p-Xylenes	10.34	106	588731	102.323	ug/l	99
68) o-Xylene	10.68	106	279769	51.521	ug/l	99
69) Styrene	10.70	104	470165	50.570	ug/l	99
70) Isopropylbenzene	11.00	105	752784	52.170	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.25	83	214626	47.772	ug/l	99
72) 1,2,3-Trichloropropane	11.28	75	195320m	46.798	ug/l	
73) Bromobenzene	11.24	156	179743	48.749	ug/l	98
74) n-propylbenzene	11.34	91	845925	51.398	ug/l	99
75) 2-Chlorotoluene	11.40	91	476126	50.282	ug/l	99
76) 1,3,5-Trimethylbenzene	11.49	105	605411	50.345	ug/l	100
77) t-1,4-Dichloro-2-butene	11.05	75	77843	44.070	ug/l	98
78) 4-Chlorotoluene	11.49	91	558739	50.052	ug/l	99
79) tert-butylbenzene	11.76	119	589746	48.579	ug/l	100
80) 1,2,4-Trimethylbenzene	11.79	105	596644	49.628	ug/l	98
81) sec-Butylbenzene	11.93	105	704517	50.268	ug/l	99
82) p-Isopropyltoluene	12.05	119	644398	49.550	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	318569	48.254	ug/l	100
84) 1,4-Dichlorobenzene	12.08	146	326642	49.062	ug/l	99
85) n-Butylbenzene	12.37	91	572547	49.019	ug/l	99
86) Hexachloroethane	12.58	117	101087	46.797	ug/l	99
87) 1,2-Dichlorobenzene	12.37	146	310951	48.759	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	49310	45.913	ug/l	98
89) 1,2,4-Trichlorobenzene	13.63	180	222016	47.631	ug/l	100
90) Hexachlorobutadiene	13.76	225	95190	48.937	ug/l	97
91) Naphthalene	13.82	128	743528	49.061	ug/l	99
92) 1,2,3-Trichlorobenzene	14.00	180	214152	47.299	ug/l	100

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

