

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022120\
 Data File : VX014988.D
 Acq On : 21 Feb 2020 11:30
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX022120

Manual Integrations
 APPROVED

MMDadoda
 2/24/2020 11:29:10 AM

Quant Time: Feb 22 00:40:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X022120W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Feb 21 11:08:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	83905	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	453410	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	411115	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	169795	29.10	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.00%
60) 4-Bromofluorobenzene	11.13	95	187402	29.27	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.57%
63) Toluene-d8	8.71	98	542703	30.27	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	68616	18.313	ug/l 97
3) Chloromethane	1.32	50	96519	19.922	ug/l 97
4) Vinyl Chloride	1.40	62	95265	18.270	ug/l 100
5) Bromomethane	1.64	94	71240	19.510	ug/l 96
6) Chloroethane	1.72	64	63038	18.048	ug/l 98
7) Trichlorofluoromethane	1.93	101	141558	18.654	ug/l 98
8) Diethyl Ether	2.18	74	60462	18.940	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	2.38	101	83244	18.974	ug/l 99
10) 1,1-Dichloroethene	2.37	96	80779	18.314	ug/l 97
11) Methyl Iodide	2.50	142	83206	15.525	ug/l 97
12) Methyl Acetate	2.76	43	102762	18.723	ug/l 97
13) Acrolein	2.28	56	99800	91.426	ug/l 99
14) Acrylonitrile	3.12	53	235078	94.837	ug/l 99
15) Acetone	2.43	58	82495	92.996	ug/l 93
16) Carbon Disulfide	2.56	76	224809	18.956	ug/l 100
17) Allyl chloride	2.72	41	141911	18.496	ug/l 99
18) Methylene Chloride	2.85	84	94598	18.615	ug/l 98
19) trans-1,2-Dichloroethene	3.15	96	90979	18.779	ug/l 99
20) Diisopropyl ether	3.84	45	292404	18.661	ug/l 98
21) 1,1-Dichloroethane	3.69	63	161772	18.833	ug/l 98
22) cis-1,2-Dichloroethene	4.58	96	104736	18.892	ug/l 99
23) tert-Butyl Alcohol	3.01	59	96694	98.408	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	281483	19.182	ug/l 99
25) Chloroform	5.20	83	162215	18.727	ug/l 96
26) Cyclohexane	5.57	56	143861	18.739	ug/l # 100
29) 1,1-Dichloropropene	5.78	75	120830	18.841	ug/l 100
30) 2-Butanone	4.65	43	355844	96.129	ug/l 99
31) 2,2-Dichloropropane	4.57	77	133838	19.006	ug/l 100
32) 1,1,1-Trichloroethane	5.48	97	138259	18.984	ug/l 98
33) Carbon Tetrachloride	5.78	117	120645	18.924	ug/l 95
34) Benzene	6.13	78	367556	18.993	ug/l 98
35) Methacrylonitrile	5.02	41	70140	18.575	ug/l 99
36) 1,2-Dichloroethane	6.18	62	131382	19.180	ug/l 98
37) Trichloroethene	7.20	130	104396	19.214	ug/l 96
38) Methylcyclohexane	7.45	83	152828	19.225	ug/l 99
39) 1,2-Dichloropropane	7.50	63	93348	18.740	ug/l 95
40) Dibromomethane	7.65	93	61780	18.574	ug/l 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	122836	18.695	ug/l	98
42) Vinyl Acetate	3.80	43	1264843	97.076	ug/l	99
43) Ethyl Acetate	4.81	43	131670	19.659	ug/l	98
44) Isopropyl Acetate	6.43	43	216108	19.193	ug/l	98
45) 1,4-Dioxane	7.73	88	40344	387.773	ug/l	98
46) Methyl methacrylate	7.76	41	104317	18.727	ug/l	99
47) n-amyl Acetate	10.89	43	183199	18.781	ug/l	99
48) t-1,3-Dichloropropene	9.03	75	138211	18.960	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	151773	18.912	ug/l	96
50) 1,1,2-Trichloroethane	9.21	97	94069	18.983	ug/l	97
51) Ethyl methacrylate	9.17	69	146094	19.101	ug/l	99
52) 1,3-Dichloropropane	9.36	76	159053	18.973	ug/l	99
53) Dibromochloromethane	9.57	129	101828	19.006	ug/l	100
54) 1,2-Dibromoethane	9.67	107	101256	19.246	ug/l	97
55) 2-Chloroethyl vinyl ether	8.30	63	363770	89.287	ug/l	100
56) Bromoform	10.85	173	77211	18.384	ug/l	99
58) 4-Methyl-2-Pentanone	8.63	43	660560	98.040	ug/l	99
59) 2-Hexanone	9.48	43	513034	97.454	ug/l	99
61) Tetrachloroethene	9.33	164	103615	18.765	ug/l	99
62) Toluene	8.78	91	398699	18.934	ug/l	99
64) Chlorobenzene	10.13	112	257299	19.143	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.21	131	94790	19.039	ug/l	98
66) Ethyl Benzene	10.25	91	442261	19.066	ug/l	99
67) m/p-Xylenes	10.35	106	344486	38.513	ug/l	98
68) o-Xylene	10.69	106	165401	19.111	ug/l	98
69) Styrene	10.71	104	276096	18.678	ug/l	99
70) Isopropylbenzene	11.01	105	440156	19.146	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	143111	19.334	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	118958m	17.245	ug/l	
73) Bromobenzene	11.25	156	116525	18.758	ug/l	98
74) n-propylbenzene	11.35	91	499641	19.095	ug/l	100
75) 2-Chlorotoluene	11.42	91	297184	19.220	ug/l	100
76) 1,3,5-Trimethylbenzene	11.50	105	368110	19.106	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	44530	17.986	ug/l	95
78) 4-Chlorotoluene	11.51	91	341218	19.078	ug/l	99
79) tert-butylbenzene	11.76	119	360050	19.343	ug/l	100
80) 1,2,4-Trimethylbenzene	11.80	105	364362	19.022	ug/l	99
81) sec-Butylbenzene	11.94	105	425668	19.095	ug/l	98
82) p-Isopropyltoluene	12.06	119	394072	19.029	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	206504	18.964	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	207426	18.916	ug/l	99
85) n-Butylbenzene	12.39	91	329393	18.278	ug/l	99
86) Hexachloroethane	12.59	117	67691	18.083	ug/l	99
87) 1,2-Dichlorobenzene	12.39	146	205319	18.948	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.99	75	30188	18.726	ug/l	99
89) 1,2,4-Trichlorobenzene	13.64	180	143175	18.374	ug/l	99
90) Hexachlorobutadiene	13.78	225	74085	19.144	ug/l	96
91) Naphthalene	13.83	128	411980	18.674	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	142983	18.481	ug/l	100

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

