

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX012519\
 Data File : VX007228.D
 Acq On : 25 Jan 2019 14:32
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 1/28/2019 12:05:35 PM

Quant Time: Jan 28 11:05:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X012519W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jan 28 10:35:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	84189	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	465495	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	419783	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	167693	30.34	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.13%
60) 4-Bromofluorobenzene	11.13	95	197100	30.42	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.40%
63) Toluene-d8	8.71	98	563553	29.78	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.27%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	70897	18.761	ug/l 99
3) Chloromethane	1.33	50	85973	20.349	ug/l 100
4) Vinyl Chloride	1.41	62	95213	19.859	ug/l 99
5) Bromomethane	1.64	94	90146	18.039	ug/l 95
6) Chloroethane	1.73	64	63675	19.707	ug/l 93
7) Trichlorofluoromethane	1.93	101	155148	19.168	ug/l 98
8) Diethyl Ether	2.19	74	62022	20.271	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	93731	19.606	ug/l 99
10) 1,1-Dichloroethene	2.38	96	85019	19.567	ug/l 100
11) Methyl Iodide	2.51	142	126762	17.981	ug/l 98
12) Methyl Acetate	2.78	43	153516	20.745	ug/l 97
13) Acrolein	2.30	56	50659	94.561	ug/l 96
14) Acrylonitrile	3.15	53	285478	103.042	ug/l 99
15) Acetone	2.45	58	77153	97.975	ug/l 98
16) Carbon Disulfide	2.57	76	199056	18.999	ug/l 99
17) Allyl chloride	2.73	41	151458	20.048	ug/l 99
18) Methylene Chloride	2.86	84	102503	20.468	ug/l 98
19) trans-1,2-Dichloroethene	3.17	96	92113	19.577	ug/l 95
20) Diisopropyl ether	3.87	45	279923	19.902	ug/l 97
21) 1,1-Dichloroethane	3.70	63	157252	19.575	ug/l 98
22) cis-1,2-Dichloroethene	4.60	96	102987	19.904	ug/l 97
23) tert-Butyl Alcohol	3.07	59	123174	105.794	ug/l # 100
24) Methyl tert-Butyl Ether	3.21	73	309679	20.347	ug/l 99
25) Chloroform	5.21	83	166945	20.107	ug/l 98
26) Cyclohexane	5.57	56	133808	19.777	ug/l # 98
29) 1,1-Dichloropropene	5.80	75	117847	19.421	ug/l 100
30) 2-Butanone	4.70	43	364373	100.493	ug/l # 98
31) 2,2-Dichloropropane	4.59	77	105129	17.148	ug/l 98
32) 1,1,1-Trichloroethane	5.49	97	133588	18.627	ug/l 97
33) Carbon Tetrachloride	5.79	117	117338	18.613	ug/l 98
34) Benzene	6.15	78	367836	19.652	ug/l 99
35) Methacrylonitrile	5.06	41	70416	19.026	ug/l 95
36) 1,2-Dichloroethane	6.20	62	125119	19.372	ug/l 99
37) Trichloroethene	7.21	130	107542	19.486	ug/l 97
38) Methylcyclohexane	7.46	83	143740	18.691	ug/l 99
39) 1,2-Dichloropropane	7.52	63	90671	19.316	ug/l 95
40) Dibromomethane	7.66	93	67318	19.909	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	109403	18.436	ug/l	93
42) Vinyl Acetate	3.82	43	1154796	93.935	ug/l	99
43) Ethyl Acetate	4.85	43	132772	19.625	ug/l	100
44) Isopropyl Acetate	6.46	43	203954	19.301	ug/l	98
45) 1,4-Dioxane	7.75	88	53619	418.739	ug/l	98
46) Methyl methacrylate	7.77	41	106192	19.654	ug/l	99
47) n-amyl Acetate	10.90	43	178747	19.238	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	118576	18.321	ug/l	96
49) cis-1,3-Dichloropropene	8.43	75	134730	18.738	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	101419	19.984	ug/l	93
51) Ethyl methacrylate	9.18	69	140465	19.371	ug/l	89
52) 1,3-Dichloropropane	9.37	76	161696	19.898	ug/l	99
53) Dibromochloromethane	9.59	129	95295	18.578	ug/l	99
54) 1,2-Dibromoethane	9.67	107	109296	20.005	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	388787	97.461	ug/l	100
56) Bromoform	10.86	173	70080	17.993	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	719649	102.521	ug/l	100
59) 2-Hexanone	9.49	43	550926	101.422	ug/l	99
61) Tetrachloroethene	9.34	164	113545	19.405	ug/l	98
62) Toluene	8.79	91	414200	19.602	ug/l	100
64) Chlorobenzene	10.14	112	272175	19.526	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.22	131	98474	19.945	ug/l	95
66) Ethyl Benzene	10.25	91	445085	19.442	ug/l	97
67) m/p-Xylenes	10.36	106	357125	39.501	ug/l	97
68) o-Xylene	10.70	106	168074	18.977	ug/l	98
69) Styrene	10.71	104	282804	19.793	ug/l	98
70) Isopropylbenzene	11.02	105	458779	19.567	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	152194	20.274	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	122773m	17.395	ug/l	
73) Bromobenzene	11.26	156	124983	19.259	ug/l	98
74) n-propylbenzene	11.36	91	507307	19.226	ug/l	99
75) 2-Chlorotoluene	11.42	91	300931	19.231	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	379078	19.371	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	35330	17.229	ug/l	96
78) 4-Chlorotoluene	11.51	91	349511	19.183	ug/l	99
79) tert-butylbenzene	12.06	119	407971	19.269	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	388397	19.602	ug/l	98
81) sec-Butylbenzene	11.94	105	458463	19.430	ug/l	99
82) p-Isopropyltoluene	12.06	119	407971	19.269	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	220081	19.078	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	223152	19.335	ug/l	99
85) n-Butylbenzene	12.38	91	336649	18.527	ug/l	99
86) Hexachloroethane	12.60	117	56952	17.397	ug/l	91
87) 1,2-Dichlorobenzene	12.39	146	225291	19.613	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	30254	19.773	ug/l	96
89) 1,2,4-Trichlorobenzene	13.65	180	152643	19.357	ug/l	99
90) Hexachlorobutadiene	13.78	225	73285	19.485	ug/l	99
91) Naphthalene	13.83	128	472835	19.808	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	152820	19.544	ug/l	98

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

