

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071218\
 Data File : VX003358.D
 Acq On : 12 Jul 2018 18:15
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 11:35:56 AM

Quant Time: Jul 12 19:16:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 12 13:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	60955	30.00	ug/l	-0.01
28) 1,4-Difluorobenzene	6.87	114	335223	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	301412	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	122808	29.50	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.33%
60) 4-Bromofluorobenzene	11.14	95	143420	29.61	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.70%
63) Toluene-d8	8.72	98	406337	30.49	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.63%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	89936	19.437	ug/l 99
3) Chloromethane	1.32	50	83635	18.199	ug/l 99
4) Vinyl Chloride	1.40	62	92461	18.453	ug/l 100
5) Bromomethane	1.64	94	43197	20.792	ug/l 98
6) Chloroethane	1.73	64	52351	17.530	ug/l 96
7) Trichlorofluoromethane	1.93	101	121972	18.272	ug/l 98
8) Diethyl Ether	2.19	74	49394	18.094	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	2.39	101	73566	18.003	ug/l 96
10) 1,1-Dichloroethene	2.37	96	68490	18.064	ug/l 93
11) Methyl Iodide	2.51	142	70256	20.732	ug/l 92
12) Methyl Acetate	2.78	43	115030	18.687	ug/l 98
13) Acrolein	2.29	56	41045	85.814	ug/l 98
14) Acrylonitrile	3.15	53	205741	88.811	ug/l 100
15) Acetone	2.45	58	53317	87.793	ug/l 78
16) Carbon Disulfide	2.57	76	187487	17.311	ug/l 100
17) Allyl chloride	2.73	41	123109	17.070	ug/l 91
18) Methylene Chloride	2.86	84	77728	17.469	ug/l 92
19) trans-1,2-Dichloroethene	3.17	96	73761	18.040	ug/l 93
20) Diisopropyl ether	3.88	45	228936	17.568	ug/l 97
21) 1,1-Dichloroethane	3.70	63	136221	17.824	ug/l 98
22) cis-1,2-Dichloroethene	4.60	96	81416	18.728	ug/l 83
23) tert-Butyl Alcohol	3.07	59	77909	80.998	ug/l 100
24) Methyl tert-Butyl Ether	3.21	73	226197	17.863	ug/l # 90
25) Chloroform	5.22	83	131133	19.053	ug/l 100
26) Cyclohexane	5.57	56	114908	19.260	ug/l # 95
29) 1,1-Dichloropropene	5.80	75	98485	18.633	ug/l 98
30) 2-Butanone	4.71	43	257829	87.300	ug/l 93
31) 2,2-Dichloropropane	4.59	77	84772	14.850	ug/l 95
32) 1,1,1-Trichloroethane	5.50	97	109498	18.299	ug/l 98
33) Carbon Tetrachloride	5.78	117	96682	18.410	ug/l 90
34) Benzene	6.15	78	300622	19.315	ug/l # 95
35) Methacrylonitrile	5.07	41	57385	18.366	ug/l 91
37) Trichloroethene	7.22	130	84861	19.716	ug/l 89
38) Methylcyclohexane	7.46	83	110948	18.571	ug/l 97
39) 1,2-Dichloropropane	7.52	63	76553	19.035	ug/l 97
40) Dibromomethane	7.67	93	49998	18.931	ug/l 95
41) Bromodichloromethane	7.90	83	89692	18.174	ug/l 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Vinyl Acetate	3.83	43	965166	85.066	ug/l	97
43) Ethyl Acetate	4.87	43	102398	18.254	ug/l	98
44) Isopropyl Acetate	6.47	43	159570	18.558	ug/l	93
45) 1,4-Dioxane	7.76	88	31280	340.833	ug/l #	84
46) Methyl methacrylate	7.78	41	80769	18.165	ug/l	85
47) n-amyl Acetate	10.90	43	130640	17.640	ug/l #	88
48) t-1,3-Dichloropropene	8.44	75	108374	18.043	ug/l	100
49) cis-1,3-Dichloropropene	9.05	75	95401	17.539	ug/l #	89
50) 1,1,2-Trichloroethane	9.22	97	76768	19.272	ug/l	96
51) Ethyl methacrylate	9.18	69	108355	18.665	ug/l	82
52) 1,3-Dichloropropane	9.37	76	125270	19.147	ug/l	100
53) Dibromochloromethane	9.59	129	72756	18.276	ug/l	99
54) 1,2-Dibromoethane	9.68	107	78597	19.026	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	279833	102.175	ug/l	98
56) Bromoform	10.86	173	55304	18.170	ug/l	100
58) 4-Methyl-2-Pentanone	8.65	43	515476	96.005	ug/l	92
59) 2-Hexanone	9.50	43	386520	93.990	ug/l	92
61) Tetrachloroethene	9.34	164	97324	21.097	ug/l	98
62) Toluene	8.79	91	329066	20.011	ug/l	99
64) Chlorobenzene	10.14	112	212393	19.504	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	74723	19.346	ug/l	99
66) Ethyl Benzene	10.26	91	352372	19.391	ug/l	100
67) m/p-Xylenes	10.36	106	276257	39.070	ug/l	97
68) o-Xylene	10.70	106	132422	19.465	ug/l	95
69) Styrene	10.71	104	217550	19.237	ug/l	97
70) Isopropylbenzene	11.02	105	356835	19.781	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	111480	19.705	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	96504m	14.584	ug/l	
73) Bromobenzene	11.26	156	97883	19.521	ug/l	95
74) n-propylbenzene	11.37	91	404554	19.255	ug/l	99
75) 2-Chlorotoluene	11.42	91	243753	19.395	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	294252	19.277	ug/l	98
77) t-1,4-Dichloro-2-butene	11.08	75	27131	17.168	ug/l	96
78) 4-Chlorotoluene	11.51	91	279139	19.014	ug/l	97
79) tert-butylbenzene	12.07	119	304223	18.818	ug/l	98
80) 1,2,4-Trimethylbenzene	11.81	105	302624	19.510	ug/l	99
81) sec-Butylbenzene	11.95	105	347457	19.240	ug/l	99
82) p-Isopropyltoluene	12.07	119	304223	18.818	ug/l	98
83) 1,3-Dichlorobenzene	12.03	146	176073	18.952	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	178508	19.037	ug/l	98
85) n-Butylbenzene	12.39	91	255207	17.980	ug/l	100
86) Hexachloroethane	12.60	117	40087	16.845	ug/l	98
87) 1,2-Dichlorobenzene	12.40	146	177571	19.120	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	20960	17.833	ug/l	89
89) 1,2,4-Trichlorobenzene	13.65	180	121615	18.239	ug/l	100
90) Hexachlorobutadiene	13.79	225	58021	17.760	ug/l	100
91) Naphthalene	13.84	128	361109	18.779	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	125977	18.636	ug/l	100

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

