

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032219\
 Data File : VX008342.D
 Acq On : 22 Mar 2019 16:38
 Operator : JC/SP
 Sample : VX0322WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0322WBSD01

Manual Integrations
 APPROVED

MMDadoda
 3/23/2019 9:33:19 AM

Quant Time: Mar 23 02:07:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 22 15:33:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	30235	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	157974	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	141010	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	64091	31.02	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.40%
60) 4-Bromofluorobenzene	11.13	95	69667	30.35	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.17%
63) Toluene-d8	8.71	98	193986	30.53	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	30035	18.514	ug/l 99
3) Chloromethane	1.33	50	32087	19.345	ug/l 94
4) Vinyl Chloride	1.41	62	35401	18.936	ug/l 100
5) Bromomethane	1.65	94	25984	7.667	ug/l 99
6) Chloroethane	1.73	64	23260	17.507	ug/l 100
7) Trichlorofluoromethane	1.93	101	55268	18.571	ug/l 99
8) Diethyl Ether	2.19	74	22472	19.470	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	29937	18.189	ug/l 98
10) 1,1-Dichloroethene	2.38	96	30309	18.656	ug/l 99
11) Methyl Iodide	2.51	142	35553	14.477	ug/l 95
12) Methyl Acetate	2.78	43	33551	18.926	ug/l 100
13) Acrolein	2.29	56	27465	98.897	ug/l 99
14) Acrylonitrile	3.14	53	86251	98.039	ug/l 97
15) Acetone	2.45	58	24474	70.942	ug/l 98
16) Carbon Disulfide	2.57	76	85489	18.978	ug/l 99
17) Allyl chloride	2.73	41	43549	18.166	ug/l 94
18) Methylene Chloride	2.86	84	33272	19.025	ug/l 93
19) trans-1,2-Dichloroethene	3.17	96	32890	19.072	ug/l 93
20) Diisopropyl ether	3.86	45	96274	19.207	ug/l 93
21) 1,1-Dichloroethane	3.70	63	58515	19.766	ug/l 98
22) cis-1,2-Dichloroethene	4.60	96	38977	19.596	ug/l 98
23) tert-Butyl Alcohol	3.04	59	33536	93.898	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	99024	18.973	ug/l 98
25) Chloroform	5.22	83	60796	19.360	ug/l 94
26) Cyclohexane	5.59	56	50180	19.167	ug/l # 99
29) 1,1-Dichloropropene	5.80	75	42526	18.953	ug/l 99
30) 2-Butanone	4.68	43	116253	89.955	ug/l 98
31) 2,2-Dichloropropane	4.59	77	36882	17.459	ug/l 100
32) 1,1,1-Trichloroethane	5.50	97	52294	19.808	ug/l 97
33) Carbon Tetrachloride	5.79	117	45301	18.684	ug/l 92
34) Benzene	6.15	78	135439	20.265	ug/l # 96
35) Methacrylonitrile	5.04	41	22931	19.049	ug/l 98
36) 1,2-Dichloroethane	6.20	62	48514	19.694	ug/l 98
37) Trichloroethene	7.21	130	37244	18.953	ug/l 83
38) Methylcyclohexane	7.46	83	51844	18.436	ug/l 98
39) 1,2-Dichloropropane	7.51	63	33016	19.414	ug/l 98
40) Dibromomethane	7.66	93	25007	20.049	ug/l 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.90	83	45768	19.338	ug/l	96
42) Vinyl Acetate	3.82	43	427564	98.433	ug/l	100
43) Ethyl Acetate	4.84	43	43704	19.158	ug/l #	81
44) Isopropyl Acetate	6.45	43	69641	19.398	ug/l	98
45) 1,4-Dioxane	7.74	88	17525	388.115	ug/l	96
46) Methyl methacrylate	7.77	41	34195	19.412	ug/l	99
47) n-amyl Acetate	10.90	43	57964	18.832	ug/l	97
48) t-1,3-Dichloropropene	9.04	75	42574	17.966	ug/l	96
49) cis-1,3-Dichloropropene	8.43	75	48964	18.518	ug/l	96
50) 1,1,2-Trichloroethane	9.21	97	36116	20.156	ug/l	97
51) Ethyl methacrylate	9.18	69	52072	19.905	ug/l	96
52) 1,3-Dichloropropane	9.37	76	57795	20.111	ug/l	100
53) Dibromochloromethane	9.58	129	38025	18.825	ug/l	99
54) 1,2-Dibromoethane	9.67	107	38932	19.803	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	130913	99.467	ug/l	98
56) Bromoform	10.85	173	27161	17.032	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	231685	97.585	ug/l	97
59) 2-Hexanone	9.49	43	175002	93.182	ug/l	96
61) Tetrachloroethene	9.34	164	35465	18.684	ug/l	96
62) Toluene	8.79	91	145722	19.469	ug/l	99
64) Chlorobenzene	10.13	112	91881	19.041	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.22	131	34180	18.546	ug/l	96
66) Ethyl Benzene	10.25	91	158672	19.602	ug/l	100
67) m/p-Xylenes	10.36	106	123836	38.492	ug/l	100
68) o-Xylene	10.69	106	59320	19.194	ug/l	98
69) Styrene	10.71	104	99430	19.056	ug/l	98
70) Isopropylbenzene	11.02	105	154761	19.033	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	54550	19.674	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	50299m	22.520	ug/l	
73) Bromobenzene	11.26	156	42020	18.677	ug/l	95
74) n-propylbenzene	11.36	91	167117	18.438	ug/l	99
75) 2-Chlorotoluene	11.42	91	103513	19.124	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	131251	18.895	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	13074	16.523	ug/l	96
78) 4-Chlorotoluene	11.51	91	119525	18.763	ug/l	97
79) tert-butylbenzene	12.06	119	136470	18.677	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	132030	19.127	ug/l	98
81) sec-Butylbenzene	11.94	105	147231	18.582	ug/l	99
82) p-Isopropyltoluene	12.06	119	136470	18.677	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	70453	18.042	ug/l	96
84) 1,4-Dichlorobenzene	12.10	146	69426	17.854	ug/l	95
85) n-Butylbenzene	12.38	91	109034	17.348	ug/l	100
86) Hexachloroethane	12.60	117	22325	17.728	ug/l	99
87) 1,2-Dichlorobenzene	12.39	146	72574	18.846	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.00	75	11272	17.759	ug/l	90
89) 1,2,4-Trichlorobenzene	13.65	180	46835	17.184	ug/l	99
90) Hexachlorobutadiene	13.78	225	22631	16.494	ug/l	98
91) Naphthalene	13.83	128	152023	18.571	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	48616	17.644	ug/l	96

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

