

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040919\
 Data File : VX008764.D
 Acq On : 09 Apr 2019 11:52
 Operator : JC/SP
 Sample : VX0409WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0409WBSD01

Manual Integrations
 APPROVED

MMDadoda
 4/10/2019 4:21:05 PM

Quant Time: Apr 09 14:10:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032719W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Mar 27 12:01:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	37214	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	218989	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	187578	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	94174	30.25	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.83%
60) 4-Bromofluorobenzene	11.13	95	94469	28.91	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.37%
63) Toluene-d8	8.71	98	273214	30.68	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.27%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	46310	18.199	ug/l 100
3) Chloromethane	1.32	50	58491	17.544	ug/l 97
4) Vinyl Chloride	1.41	62	61087	18.177	ug/l 98
5) Bromomethane	1.64	94	31919	18.331	ug/l 99
6) Chloroethane	1.71	64	37137	16.884	ug/l 98
7) Trichlorofluoromethane	1.92	101	74780	20.048	ug/l 98
8) Diethyl Ether	2.19	74	34440	19.578	ug/l 80
9) 1,1,2-Trichlorotrifluoroet	2.38	101	48191	20.746	ug/l 93
10) 1,1-Dichloroethene	2.37	96	48916	20.757	ug/l 83
11) Methyl Iodide	2.51	142	44273	18.143	ug/l 96
12) Methyl Acetate	3.20	43	40483	21.195	ug/l 95
13) Acrolein	2.29	56	64859	118.367	ug/l 97
14) Acrylonitrile	3.14	53	195492	110.705	ug/l 99
15) Acetone	2.45	58	57288	105.202	ug/l 93
16) Carbon Disulfide	2.57	76	133868	18.261	ug/l 99
17) Allyl chloride	2.73	41	113060	21.347	ug/l 88
18) Methylene Chloride	2.85	84	56305	19.987	ug/l 87
19) trans-1,2-Dichloroethene	3.17	96	51452	20.436	ug/l 87
20) Diisopropyl ether	3.86	45	224755	21.803	ug/l # 94
21) 1,1-Dichloroethane	3.70	63	109958	21.250	ug/l 97
22) cis-1,2-Dichloroethene	4.60	96	60925	20.940	ug/l # 80
23) tert-Butyl Alcohol	3.06	59	74513	104.496	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	184041	21.250	ug/l 99
25) Chloroform	5.21	83	99652	21.261	ug/l 96
26) Cyclohexane	5.58	56	104815	20.850	ug/l # 80
29) 1,1-Dichloropropene	5.80	75	76013	20.632	ug/l 93
30) 2-Butanone	4.68	43	299071	110.393	ug/l 93
31) 2,2-Dichloropropane	4.58	77	80679	21.926	ug/l 93
32) 1,1,1-Trichloroethane	5.49	97	80225	20.969	ug/l 95
33) Carbon Tetrachloride	5.78	117	65783	20.551	ug/l 99
34) Benzene	6.14	78	233997	20.778	ug/l # 95
35) Methacrylonitrile	5.04	41	61949	22.486	ug/l 92
36) 1,2-Dichloroethane	6.19	62	83892	20.894	ug/l 97
37) Trichloroethene	7.21	130	54754	21.141	ug/l 85
38) Methylcyclohexane	7.46	83	93394	20.118	ug/l 88
39) 1,2-Dichloropropane	7.51	63	65374	20.466	ug/l 99
40) Dibromomethane	7.66	93	37851	20.456	ug/l 91

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

41) Bromodichloromethane	7.90	83	74485	20.473	ug/l	99
42) Vinyl Acetate	3.81	43	1000767	108.971	ug/l #	93
43) Ethyl Acetate	4.84	43	110345	22.630	ug/l #	81
44) Isopropyl Acetate	6.45	43	170708	21.651	ug/l	98
45) 1,4-Dioxane	7.74	88	29903	380.982	ug/l #	82
46) Methyl methacrylate	7.77	41	85953	21.465	ug/l	83
47) n-amyl Acetate	10.90	43	140218	19.578	ug/l	94
48) t-1,3-Dichloropropene	9.04	75	85144	20.719	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	96075	20.902	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	56192	20.452	ug/l	98
51) Ethyl methacrylate	9.18	69	102266	20.002	ug/l	89
52) 1,3-Dichloropropane	9.37	76	101834	20.833	ug/l	99
53) Dibromochloromethane	9.58	129	54333	20.096	ug/l	100
54) 1,2-Dibromoethane	9.67	107	58361	20.606	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	296354	114.894	ug/l	95
56) Bromoform	10.86	173	38870	19.727	ug/l #	97
58) 4-Methyl-2-Pentanone	8.64	43	552402	111.627	ug/l #	95
59) 2-Hexanone	9.49	43	425295	108.781	ug/l	96
61) Tetrachloroethene	9.34	164	47716	23.256	ug/l	97
62) Toluene	8.79	91	238297	20.983	ug/l	100
64) Chlorobenzene	10.14	112	136915	20.574	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	50735	21.624	ug/l	98
66) Ethyl Benzene	10.25	91	255866	20.297	ug/l	96
67) m/p-Xylenes	10.36	106	184738	40.179	ug/l	92
68) o-Xylene	10.69	106	89896	19.980	ug/l	92
69) Styrene	10.71	104	156726	20.018	ug/l	96
70) Isopropylbenzene	11.02	105	241574	20.354	ug/l	95
71) 1,1,2,2-Tetrachloroethane	11.27	83	90447	20.399	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	78435m	20.928	ug/l	
73) Bromobenzene	11.26	156	56648	20.061	ug/l	79
74) n-propylbenzene	11.36	91	282152	19.955	ug/l	94
75) 2-Chlorotoluene	11.42	91	167226	19.879	ug/l	91
76) 1,3,5-Trimethylbenzene	11.51	105	204978	20.201	ug/l	96
77) t-1,4-Dichloro-2-butene	11.07	75	30227	21.026	ug/l	91
78) 4-Chlorotoluene	11.51	91	187999	19.419	ug/l	91
79) tert-butylbenzene	12.06	119	206983	19.960	ug/l	97
80) 1,2,4-Trimethylbenzene	11.80	105	202443	20.009	ug/l	96
81) sec-Butylbenzene	11.94	105	231496	19.968	ug/l	96
82) p-Isopropyltoluene	12.06	119	206983	19.960	ug/l	97
83) 1,3-Dichlorobenzene	12.02	146	99299	19.808	ug/l	95
84) 1,4-Dichlorobenzene	12.10	146	98884	19.739	ug/l	97
85) n-Butylbenzene	12.39	91	192519	19.540	ug/l	97
86) Hexachloroethane	12.60	117	33987	19.616	ug/l	99
87) 1,2-Dichlorobenzene	12.39	146	98294	19.460	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	13.00	75	19871	20.220	ug/l #	76
89) 1,2,4-Trichlorobenzene	13.65	180	68934	19.784	ug/l	99
90) Hexachlorobutadiene	13.78	225	34964	20.830	ug/l	99
91) Naphthalene	13.83	128	235389	19.718	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	70634	20.125	ug/l	98

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

