

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032719\
 Data File : VX008480.D
 Acq On : 27 Mar 2019 14:20
 Operator : JC/SP
 Sample : VX0327WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0327WBS01

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 3:46:54 PM

Quant Time: Mar 28 09:49:57 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	5.01	128	34863	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	201696	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	179726	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	86444	29.64	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.80%
60) 4-Bromofluorobenzene	11.13	95	93119	29.74	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.13%
63) Toluene-d8	8.71	98	258356	30.28	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.93%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	45980	19.288	ug/l 98
3) Chloromethane	1.32	50	62165	19.903	ug/l 96
4) Vinyl Chloride	1.40	62	59349	18.851	ug/l 99
5) Bromomethane	1.64	94	30550	18.728	ug/l 100
6) Chloroethane	1.72	64	35301	17.131	ug/l 98
7) Trichlorofluoromethane	1.93	101	66149	18.930	ug/l 97
8) Diethyl Ether	2.18	74	31066	18.851	ug/l 80
9) 1,1,2-Trichlorotrifluoroet	2.38	101	42017	19.308	ug/l 92
10) 1,1-Dichloroethene	2.37	96	42335	19.176	ug/l # 80
11) Methyl Iodide	2.51	142	39254	17.171	ug/l 96
12) Methyl Acetate	3.19	43	34046	19.027	ug/l 94
13) Acrolein	2.29	56	45193	88.038	ug/l 97
14) Acrylonitrile	3.14	53	156591	94.656	ug/l 99
15) Acetone	2.44	58	44356	86.947	ug/l 88
16) Carbon Disulfide	2.57	76	129367	18.837	ug/l 99
17) Allyl chloride	2.73	41	91380	18.417	ug/l 92
18) Methylene Chloride	2.85	84	50942	19.303	ug/l 91
19) trans-1,2-Dichloroethene	3.16	96	45380	19.239	ug/l 88
20) Diisopropyl ether	3.85	45	184654	19.120	ug/l # 96
21) 1,1-Dichloroethane	3.69	63	92195	19.019	ug/l 96
22) cis-1,2-Dichloroethene	4.59	96	51471	18.884	ug/l # 81
23) tert-Butyl Alcohol	3.04	59	61758	92.449	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	153875	18.965	ug/l 98
25) Chloroform	5.21	83	83739	19.071	ug/l 95
26) Cyclohexane	5.57	56	91229	19.372	ug/l # 83
29) 1,1-Dichloropropene	5.79	75	66033	19.460	ug/l 93
30) 2-Butanone	4.67	43	229975	92.166	ug/l 95
31) 2,2-Dichloropropane	4.57	77	62562	18.460	ug/l 95
32) 1,1,1-Trichloroethane	5.49	97	66231	18.796	ug/l # 95
33) Carbon Tetrachloride	5.78	117	55209	18.727	ug/l 95
34) Benzene	6.13	78	200188	19.300	ug/l # 95
35) Methacrylonitrile	5.03	41	47965	18.903	ug/l 92
36) 1,2-Dichloroethane	6.19	62	70868	19.164	ug/l 98
37) Trichloroethene	7.21	130	45555m	19.098	ug/l
38) Methylcyclohexane	7.46	83	83620	19.557	ug/l 88
39) 1,2-Dichloropropane	7.51	63	56019	19.041	ug/l 99
40) Dibromomethane	7.66	93	32118	18.846	ug/l 89

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

41) Bromodichloromethane	7.90	83	62357	18.609	ug/l	98
42) Vinyl Acetate	3.81	43	814352	96.275	ug/l #	94
43) Ethyl Acetate	4.82	43	84913	18.908	ug/l #	82
44) Isopropyl Acetate	6.44	43	135367	18.641	ug/l	98
45) 1,4-Dioxane	7.74	88	28267	391.016	ug/l #	84
46) Methyl methacrylate	7.76	41	68245	18.504	ug/l	85
47) n-amyl Acetate	10.90	43	120425	18.256	ug/l	95
48) t-1,3-Dichloropropene	9.04	75	68592	18.122	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	78375	18.513	ug/l	95
50) 1,1,2-Trichloroethane	9.21	97	48367	19.114	ug/l	96
51) Ethyl methacrylate	9.18	69	86565	18.383	ug/l	92
52) 1,3-Dichloropropane	9.37	76	86236	19.155	ug/l	99
53) Dibromochloromethane	9.58	129	44756	17.973	ug/l	100
54) 1,2-Dibromoethane	9.67	107	49633	19.027	ug/l	97
55) 2-Chloroethyl vinyl ether	8.30	63	225866	95.074	ug/l	95
56) Bromoform	10.85	173	31511	17.363	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	446448	94.158	ug/l	95
59) 2-Hexanone	9.49	43	349591	93.324	ug/l	97
61) Tetrachloroethene	9.34	164	39435	20.060	ug/l	97
62) Toluene	8.78	91	208503	19.161	ug/l	99
64) Chlorobenzene	10.13	112	123060	19.300	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	41542	18.479	ug/l	97
66) Ethyl Benzene	10.25	91	229146	18.972	ug/l	96
67) m/p-Xylenes	10.36	106	169380	38.448	ug/l	91
68) o-Xylene	10.69	106	81986	19.018	ug/l	92
69) Styrene	10.71	104	140704	18.757	ug/l	96
70) Isopropylbenzene	11.02	105	220747	19.412	ug/l	95
71) 1,1,2,2-Tetrachloroethane	11.27	83	80847	19.031	ug/l	97
72) 1,2,3-Trichloropropane	11.29	75	68358m	19.036	ug/l	
73) Bromobenzene	11.26	156	50353	18.611	ug/l	77
74) n-propylbenzene	11.36	91	261922	19.334	ug/l	94
75) 2-Chlorotoluene	11.42	91	155732	19.322	ug/l	89
76) 1,3,5-Trimethylbenzene	11.51	105	185073	19.036	ug/l	96
77) t-1,4-Dichloro-2-butene	11.07	75	22667	16.456	ug/l	95
78) 4-Chlorotoluene	11.51	91	177149	19.097	ug/l	91
79) tert-butylbenzene	12.06	119	191813	19.306	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	184929	19.077	ug/l	96
81) sec-Butylbenzene	11.94	105	214662	19.325	ug/l	96
82) p-Isopropyltoluene	12.06	119	191813	19.306	ug/l	96
83) 1,3-Dichlorobenzene	12.02	146	91871	19.127	ug/l	94
84) 1,4-Dichlorobenzene	12.10	146	91905	19.147	ug/l	97
85) n-Butylbenzene	12.38	91	177740	18.828	ug/l	96
86) Hexachloroethane	12.60	117	29867	17.992	ug/l	97
87) 1,2-Dichlorobenzene	12.39	146	93722	19.365	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.00	75	17969	19.084	ug/l #	76
89) 1,2,4-Trichlorobenzene	13.65	180	64837	19.422	ug/l	99
90) Hexachlorobutadiene	13.78	225	31651	19.680	ug/l	99
91) Naphthalene	13.83	128	227389	19.881	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	66797	19.863	ug/l	99

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

