

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031519\
 Data File : VX008106.D
 Acq On : 15 Mar 2019 14:30
 Operator : JC/SP
 Sample : VX0315WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0315WBS01

Manual Integrations
 APPROVED

MMDadoda
 3/16/2019 10:33:03 AM

Quant Time: Mar 16 01:02:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X030819W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 08 12:01:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	42531	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	224554	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	196441	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	78638	28.13	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	93.77%
60) 4-Bromofluorobenzene	11.13	95	91919	29.32	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.73%
63) Toluene-d8	8.71	98	268025	29.81	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.37%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	45484	18.014	ug/l 94
3) Chloromethane	1.33	50	40900	14.567	ug/l 99
4) Vinyl Chloride	1.41	62	43017	15.467	ug/l 100
5) Bromomethane	1.64	94	27116	19.557	ug/l 99
6) Chloroethane	1.73	64	26776	16.485	ug/l 94
7) Trichlorofluoromethane	1.93	101	60395	17.439	ug/l 99
8) Diethyl Ether	2.19	74	31233	17.512	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	48480	18.619	ug/l 93
10) 1,1-Dichloroethene	2.38	96	46539	18.857	ug/l 95
11) Methyl Iodide	2.51	142	74683	19.331	ug/l 93
12) Methyl Acetate	2.78	43	62699	16.064	ug/l 95
13) Acrolein	2.30	56	34195	74.676	ug/l 99
14) Acrylonitrile	3.15	53	140812	84.986	ug/l 99
15) Acetone	2.45	58	41106	68.717	ug/l 94
16) Carbon Disulfide	2.57	76	128808	16.635	ug/l 100
17) Allyl chloride	2.73	41	76996	15.217	ug/l 93
18) Methylene Chloride	2.86	84	49786	17.708	ug/l 90
19) trans-1,2-Dichloroethene	3.17	96	48956	18.748	ug/l 97
20) Diisopropyl ether	3.87	45	158991	17.176	ug/l 95
21) 1,1-Dichloroethane	3.70	63	90847	18.046	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	56916	18.895	ug/l 95
23) tert-Butyl Alcohol	3.07	59	60208	90.073	ug/l # 100
24) Methyl tert-Butyl Ether	3.21	73	151914	17.903	ug/l 94
25) Chloroform	5.21	83	92062	19.375	ug/l 95
26) Cyclohexane	5.58	56	80095	17.218	ug/l # 96
29) 1,1-Dichloropropene	5.80	75	67117	18.851	ug/l 99
30) 2-Butanone	4.70	43	203645	84.802	ug/l 99
31) 2,2-Dichloropropane	4.59	77	64010	19.464	ug/l 100
32) 1,1,1-Trichloroethane	5.49	97	76996	19.998	ug/l 100
33) Carbon Tetrachloride	5.78	117	67190	19.675	ug/l 97
34) Benzene	6.15	78	210606	19.302	ug/l 98
35) Methacrylonitrile	5.06	41	41041	17.538	ug/l 98
36) 1,2-Dichloroethane	6.20	62	68235	19.222	ug/l 98
37) Trichloroethene	7.21	130	60111	20.333	ug/l 98
38) Methylcyclohexane	7.46	83	83283	18.398	ug/l 98
39) 1,2-Dichloropropane	7.51	63	52537	18.463	ug/l 98
40) Dibromomethane	7.66	93	35382	19.602	ug/l 87

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

41) Bromodichloromethane	7.90	83	65249	19.125	ug/l	98
42) Vinyl Acetate	3.82	43	686052	88.256	ug/l	99
43) Ethyl Acetate	4.85	43	74197	17.738	ug/l #	81
44) Isopropyl Acetate	6.46	43	112086	17.562	ug/l	96
45) 1,4-Dioxane	7.75	88	27450	411.089	ug/l	94
46) Methyl methacrylate	7.77	41	58927	17.555	ug/l	94
47) n-amyl Acetate	10.90	43	93979	17.090	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	68365	18.502	ug/l	96
49) cis-1,3-Dichloropropene	8.44	75	78695	18.808	ug/l	93
50) 1,1,2-Trichloroethane	9.21	97	55455	20.156	ug/l	96
51) Ethyl methacrylate	9.18	69	78492	18.812	ug/l	92
52) 1,3-Dichloropropane	9.37	76	87738	19.300	ug/l	99
53) Dibromochloromethane	9.58	129	55373	19.566	ug/l	98
54) 1,2-Dibromoethane	9.67	107	58464	20.326	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	180772	93.151	ug/l	99
56) Bromoform	10.86	173	45383	20.104	ug/l #	98
58) 4-Methyl-2-Pentanone	8.65	43	377773	93.406	ug/l	96
59) 2-Hexanone	9.49	43	290229	90.908	ug/l	96
61) Tetrachloroethene	9.34	164	62679	21.873	ug/l	96
62) Toluene	8.79	91	225302	19.642	ug/l	99
64) Chlorobenzene	10.14	112	148203	20.272	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	54539	20.836	ug/l	98
66) Ethyl Benzene	10.25	91	240028	19.482	ug/l	100
67) m/p-Xylenes	10.36	106	189679	40.149	ug/l	100
68) o-Xylene	10.70	106	90743	19.780	ug/l	99
69) Styrene	10.71	104	151612	20.058	ug/l	99
70) Isopropylbenzene	11.02	105	244636	19.957	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.27	83	81634	20.164	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	77071m	20.196	ug/l	
73) Bromobenzene	11.26	156	67783	20.799	ug/l	99
74) n-propylbenzene	11.36	91	267670	19.358	ug/l	100
75) 2-Chlorotoluene	11.42	91	162312	19.584	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	204377	20.117	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	22278	18.894	ug/l	91
78) 4-Chlorotoluene	11.51	91	183744	19.609	ug/l	98
79) tert-butylbenzene	12.06	119	218174	20.012	ug/l	97
80) 1,2,4-Trimethylbenzene	11.80	105	208216	20.194	ug/l	98
81) sec-Butylbenzene	11.94	105	239878	19.644	ug/l	99
82) p-Isopropyltoluene	12.06	119	218174	20.012	ug/l	97
83) 1,3-Dichlorobenzene	12.02	146	117858	20.312	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	119442	20.575	ug/l	99
85) n-Butylbenzene	12.39	91	171000	18.340	ug/l	99
86) Hexachloroethane	12.60	117	33761	19.006	ug/l	74
87) 1,2-Dichlorobenzene	12.39	146	118637	20.689	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	16123	19.496	ug/l	90
89) 1,2,4-Trichlorobenzene	13.65	180	81210	19.706	ug/l	98
90) Hexachlorobutadiene	13.78	225	45803	20.152	ug/l	98
91) Naphthalene	13.83	128	242074	20.492	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	83898	20.482	ug/l	98

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

