

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072018\
 Data File : VX003502.D
 Acq On : 20 Jul 2018 11:52
 Operator : JC/SP
 Sample : VX0720WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0720WBSD01

Manual Integrations
 APPROVED

MMDadoda
 7/23/2018 12:34:45 PM

Quant Time: Jul 20 12:18:26 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	5.03	128	62495	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	323377	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	301683	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	121315	28.42	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	94.73%
60) 4-Bromofluorobenzene	11.14	95	142327	29.36	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.87%
63) Toluene-d8	8.72	98	410295	30.76	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.53%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	52928	11.16	ug/l	99
3) Chloromethane	1.32	50	69457	14.74	ug/l	99
4) Vinyl Chloride	1.40	62	78422	15.27	ug/l	99
5) Bromomethane	1.64	94	39676	18.63	ug/l	99
6) Chloroethane	1.73	64	49535	16.18	ug/l	95
7) Trichlorofluoromethane	1.93	101	106923	15.62	ug/l	98
8) Diethyl Ether	2.19	74	45799	16.36	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	2.39	101	68792	16.42	ug/l	99
10) 1,1-Dichloroethene	2.37	96	64462	16.58	ug/l	91
11) Methyl Iodide	2.51	142	78745	21.86	ug/l	91
12) Methyl Acetate	2.78	43	96637	15.31	ug/l	96
13) Acrolein	2.29	56	31432	64.10	ug/l	99
14) Acrylonitrile	3.15	53	194897	82.06	ug/l	99
15) Acetone	2.45	58	53961	86.66	ug/l	73
16) Carbon Disulfide	2.57	76	173838	15.66	ug/l	100
17) Allyl chloride	2.73	41	120542	16.30	ug/l	88
18) Methylene Chloride	2.86	84	78252	17.15	ug/l	94
19) trans-1,2-Dichloroethene	3.17	96	70622	16.85	ug/l	93
20) Diisopropyl ether	3.87	45	221158	16.55	ug/l	97
21) 1,1-Dichloroethane	3.70	63	129585	16.54	ug/l	98
22) cis-1,2-Dichloroethene	4.60	96	80022	17.95	ug/l	88
23) tert-Butyl Alcohol	3.07	59	80518	81.65	ug/l	100
24) Methyl tert-Butyl Ether	3.21	73	219832	16.93	ug/l #	88
25) Chloroform	5.21	83	132148	18.73	ug/l	95
26) Cyclohexane	5.57	56	109656	17.93	ug/l #	95
29) 1,1-Dichloropropene	5.80	75	94478	18.53	ug/l	98
30) 2-Butanone	4.71	43	259885	91.22	ug/l	94
31) 2,2-Dichloropropane	4.58	77	101034	18.35	ug/l	99
32) 1,1,1-Trichloroethane	5.49	97	107621	18.64	ug/l	98
33) Carbon Tetrachloride	5.78	117	94507	18.65	ug/l	98
34) Benzene	6.15	78	291234	19.40	ug/l	98
35) Methacrylonitrile	5.06	41	55419	18.39	ug/l	86
36) 1,2-Dichloroethane	6.20	62	99068	18.97	ug/l	96
37) Trichloroethene	7.21	130	83692	20.16	ug/l	92
38) Methylcyclohexane	7.46	83	109940	19.08	ug/l	97
39) 1,2-Dichloropropane	7.52	63	75666	19.50	ug/l	94
40) Dibromomethane	7.67	93	48882	19.19	ug/l	94

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	91562	19.23	ug/l	97
42) Vinyl Acetate	3.82	43	906756	82.85	ug/l	96
43) Ethyl Acetate	4.86	43	99352	18.36	ug/l	97
44) Isopropyl Acetate	6.46	43	150469	18.14	ug/l	94
45) 1,4-Dioxane	7.76	88	33095	373.82	ug/l #	83
46) Methyl methacrylate	7.78	41	77873	18.16	ug/l	86
47) n-amyl Acetate	10.90	43	118787	16.63	ug/l #	88
48) t-1,3-Dichloropropene	8.44	75	110915	19.14	ug/l	99
49) cis-1,3-Dichloropropene	9.04	75	100450	19.14	ug/l	91
50) 1,1,2-Trichloroethane	9.22	97	75662	19.69	ug/l	98
51) Ethyl methacrylate	9.18	69	105338	18.81	ug/l	83
52) 1,3-Dichloropropane	9.37	76	123830	19.62	ug/l	99
53) Dibromochloromethane	9.59	129	73793	19.22	ug/l	99
54) 1,2-Dibromoethane	9.68	107	78756	19.76	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	248352	94.00	ug/l	98
56) Bromoform	10.86	173	55648	18.95	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	509081	94.73	ug/l	93
59) 2-Hexanone	9.50	43	379676	92.24	ug/l	93
61) Tetrachloroethene	9.34	164	101593	22.00	ug/l	98
62) Toluene	8.79	91	323458	19.65	ug/l	99
64) Chlorobenzene	10.14	112	210030	19.27	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.23	131	74622	19.30	ug/l	99
66) Ethyl Benzene	10.26	91	348209	19.15	ug/l	99
67) m/p-Xylenes	10.36	106	270826	38.27	ug/l	97
68) o-Xylene	10.70	106	131219	19.27	ug/l	95
69) Styrene	10.71	104	221119	19.53	ug/l	96
70) Isopropylbenzene	11.02	105	354130	19.61	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	106640	18.83	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	95159m	14.37	ug/l	
73) Bromobenzene	11.26	156	98034	19.53	ug/l	94
74) n-propylbenzene	11.36	91	401243	19.08	ug/l	99
75) 2-Chlorotoluene	11.42	91	239851	19.07	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	295059	19.31	ug/l	98
77) t-1,4-Dichloro-2-butene	11.08	75	28696	18.14	ug/l	96
78) 4-Chlorotoluene	11.51	91	277233	18.87	ug/l	98
79) tert-butylbenzene	12.07	119	307076	18.98	ug/l	97
80) 1,2,4-Trimethylbenzene	11.81	105	300890	19.38	ug/l	98
81) sec-Butylbenzene	11.95	105	343818	19.02	ug/l	100
82) p-Isopropyltoluene	12.07	119	307076	18.98	ug/l	97
83) 1,3-Dichlorobenzene	12.03	146	174965	18.82	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	175032	18.65	ug/l	99
85) n-Butylbenzene	12.39	91	253951	17.88	ug/l	99
86) Hexachloroethane	12.60	117	39803	16.71	ug/l	94
87) 1,2-Dichlorobenzene	12.40	146	179721	19.33	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.00	75	19889	16.91	ug/l	90
89) 1,2,4-Trichlorobenzene	13.65	180	120294	18.02	ug/l	100
90) Hexachlorobutadiene	13.79	225	56896	17.40	ug/l	98
91) Naphthalene	13.83	128	341798	17.76	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	123671	18.28	ug/l	99

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

