

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072718\
 Data File : VX003716.D
 Acq On : 27 Jul 2018 14:51
 Operator : JC/SP
 Sample : VSTDIC100
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC100

Manual Integrations
 APPROVED

MMDadoda
 7/30/2018 3:42:30 PM

Quant Time: Jul 28 02:21:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X072718W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 27 14:47:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	19708	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	110011	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	105656	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	44618	33.15	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	110.50%
60) 4-Bromofluorobenzene	11.14	95	51243	30.18	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.60%
63) Toluene-d8	8.72	98	136053	29.13	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	103559	69.222	ug/l 99
3) Chloromethane	1.32	50	143345	96.475	ug/l 97
4) Vinyl Chloride	1.40	62	152099	93.886	ug/l 100
5) Bromomethane	1.64	94	86757	129.158	ug/l 99
6) Chloroethane	1.71	64	102331	105.981	ug/l 96
7) Trichlorofluoromethane	1.92	101	205540	95.233	ug/l 100
8) Diethyl Ether	2.19	74	87443	99.073	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.38	101	123261	93.297	ug/l 95
10) 1,1-Dichloroethene	2.37	96	117691	96.004	ug/l 97
11) Methyl Iodide	2.51	142	174336	134.397	ug/l 96
12) Methyl Acetate	2.78	43	224422	112.761	ug/l 97
13) Acrolein	2.29	56	99793	645.307	ug/l 99
14) Acrylonitrile	3.15	53	430374	574.594	ug/l 100
15) Acetone	2.45	58	114988	585.617	ug/l 84
16) Carbon Disulfide	2.56	76	332751	95.025	ug/l 99
17) Allyl chloride	2.73	41	246909	105.888	ug/l 92
18) Methylene Chloride	2.86	84	135644	94.289	ug/l 99
19) trans-1,2-Dichloroethene	3.16	96	125565	94.981	ug/l 97
20) Diisopropyl ether	3.88	45	460289	109.246	ug/l 97
21) 1,1-Dichloroethane	3.70	63	251584	101.813	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	121896	86.726	ug/l # 76
23) tert-Butyl Alcohol	3.09	59	182182	585.814	ug/l # 100
24) Methyl tert-Butyl Ether	3.21	73	424020	103.567	ug/l 92
25) Chloroform	5.22	83	207123	93.077	ug/l 99
26) Cyclohexane	5.57	56	192149	99.613	ug/l # 97
29) 1,1-Dichloropropene	5.80	75	161168	92.914	ug/l 99
30) 2-Butanone	4.71	43	496157	511.919	ug/l 96
31) 2,2-Dichloropropane	4.59	77	149627	79.871	ug/l 100
32) 1,1,1-Trichloroethane	5.49	97	182587	92.978	ug/l 100
33) Carbon Tetrachloride	5.78	117	159716	92.672	ug/l 97
34) Benzene	6.15	78	479262	93.830	ug/l 100
35) Methacrylonitrile	5.07	41	106355	103.722	ug/l 93
36) 1,2-Dichloroethane	6.20	62	174820	98.424	ug/l 98
37) Trichloroethene	7.21	130	134972	95.556	ug/l 97
38) Methylcyclohexane	7.46	83	191538	97.695	ug/l 98
39) 1,2-Dichloropropane	7.52	63	130263	98.701	ug/l 96
40) Dibromomethane	7.67	93	84133	97.071	ug/l 95

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

41) Bromodichloromethane	7.90	83	169870	104.885	ug/l	98
42) Vinyl Acetate	3.83	43	2014779	541.102	ug/l	100
43) Ethyl Acetate	4.87	43	188195	102.227	ug/l	97
44) Isopropyl Acetate	6.47	43	301352	106.798	ug/l	97
45) 1,4-Dioxane	7.76	88	67347	2236.101	ug/l #	86
46) Methyl methacrylate	7.78	41	159039	108.993	ug/l	94
47) n-amyl Acetate	10.90	43	289547	119.134	ug/l #	90
48) t-1,3-Dichloropropene	8.44	75	193398	98.115	ug/l	99
49) cis-1,3-Dichloropropene	9.05	75	188844	105.791	ug/l	93
50) 1,1,2-Trichloroethane	9.22	97	127583	97.596	ug/l	99
51) Ethyl methacrylate	9.18	69	207631	108.988	ug/l	90
52) 1,3-Dichloropropane	9.38	76	217938	101.503	ug/l	99
53) Dibromochloromethane	9.59	129	133619	102.278	ug/l	99
54) 1,2-Dibromoethane	9.68	107	141770	104.575	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	513585	571.418	ug/l	99
56) Bromoform	10.86	173	101440	101.555	ug/l	100
58) 4-Methyl-2-Pentanone	8.66	43	1000757	531.716	ug/l	95
59) 2-Hexanone	9.50	43	826393	573.276	ug/l	94
61) Tetrachloroethene	9.34	164	122143	75.532	ug/l	98
62) Toluene	8.79	91	516467	89.596	ug/l	99
64) Chlorobenzene	10.14	112	342011	89.597	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	122620	90.564	ug/l	98
66) Ethyl Benzene	10.26	91	617114	96.881	ug/l	100
67) m/p-Xylenes	10.36	106	457347	184.521	ug/l	100
68) o-Xylene	10.70	106	218489	91.619	ug/l	99
69) Styrene	10.71	104	377557	95.241	ug/l	98
70) Isopropylbenzene	11.02	105	656731	103.858	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	232133	117.050	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	197644m	85.206	ug/l	
73) Bromobenzene	11.26	156	176933	100.661	ug/l	99
74) n-propylbenzene	11.37	91	767103	104.155	ug/l	100
75) 2-Chlorotoluene	11.43	91	425984	96.695	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	541576	101.213	ug/l	100
77) t-1,4-Dichloro-2-butene	11.08	75	68537	123.720	ug/l	98
78) 4-Chlorotoluene	11.51	91	511084	99.314	ug/l	100
79) tert-butylbenzene	12.07	119	549406	96.948	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	563026	103.552	ug/l	98
81) sec-Butylbenzene	11.95	105	635593	100.401	ug/l	99
82) p-Isopropyltoluene	12.07	119	549406	96.948	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	295984	90.885	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	298201	90.720	ug/l	100
85) n-Butylbenzene	12.39	91	507138	101.925	ug/l	99
86) Hexachloroethane	12.60	117	89661	107.482	ug/l	93
87) 1,2-Dichlorobenzene	12.40	146	299476	91.991	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	48780	118.394	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	215752	92.308	ug/l	100
90) Hexachlorobutadiene	13.79	225	93531	81.672	ug/l	99
91) Naphthalene	13.84	128	686299	101.814	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	218819	92.347	ug/l	100

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

