

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062218\
 Data File : VX002832.D
 Acq On : 22 Jun 2018 13:48
 Operator : JC/MD
 Sample : VX0622WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0622WBS01

Manual Integrations
 APPROVED

MMDadoda
 6/25/2018 6:56:05 PM

Quant Time: Jun 23 00:15:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X061818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jun 18 15:18:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	46280	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	248365	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	233830	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	107831	30.51	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.70%
60) 4-Bromofluorobenzene	11.14	95	114582	29.67	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.90%
63) Toluene-d8	8.72	98	310351	30.38	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.27%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	47578	21.54	ug/l	99
3) Chloromethane	1.32	50	48032	20.03	ug/l	98
4) Vinyl Chloride	1.40	62	52661	19.71	ug/l	99
5) Bromomethane	1.64	94	23339	14.95	ug/l	98
6) Chloroethane	1.73	64	35244	19.61	ug/l	96
7) Trichlorofluoromethane	1.93	101	91595	19.29	ug/l	100
8) Diethyl Ether	2.19	74	33242	19.63	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	52115	19.17	ug/l	98
10) 1,1-Dichloroethene	2.37	96	45292	18.93	ug/l	98
11) Methyl Iodide	2.51	142	45826	16.63	ug/l	98
12) Methyl Acetate	2.78	43	82639	21.28	ug/l	97
13) Acrolein	2.29	56	20228	73.27	ug/l	99
14) Acrylonitrile	3.15	53	145105	99.36	ug/l	100
15) Acetone	2.45	58	41790	102.96	ug/l	96
16) Carbon Disulfide	2.57	76	113481	18.94	ug/l	99
17) Allyl chloride	2.73	41	91055	19.12	ug/l	94
18) Methylene Chloride	2.86	84	53808	19.65	ug/l	97
19) trans-1,2-Dichloroethene	3.17	96	48958	19.08	ug/l	97
20) Diisopropyl ether	3.87	45	176423	19.89	ug/l	93
21) 1,1-Dichloroethane	3.70	63	99350	20.83	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	55633	20.17	ug/l	92
23) tert-Butyl Alcohol	3.07	59	69015	104.09	ug/l	# 100
24) Methyl tert-Butyl Ether	3.21	73	169770	19.00	ug/l	99
25) Chloroform	5.22	83	97893	20.45	ug/l	99
26) Cyclohexane	5.58	56	78393	19.34	ug/l	# 96
29) 1,1-Dichloropropene	5.81	75	69424	20.70	ug/l	99
30) 2-Butanone	4.71	43	208588	108.68	ug/l	98
31) 2,2-Dichloropropane	4.59	77	72596	20.25	ug/l	100
32) 1,1,1-Trichloroethane	5.50	97	83378	20.58	ug/l	99
33) Carbon Tetrachloride	5.78	117	75371	20.70	ug/l	99
34) Benzene	6.15	78	208227	20.96	ug/l	98
35) Methacrylonitrile	5.07	41	44743	21.41	ug/l	98
36) 1,2-Dichloroethane	6.20	62	83468	21.40	ug/l	# 93
37) Trichloroethene	7.22	130	60890	20.93	ug/l	89
38) Methylcyclohexane	7.47	83	78902	19.34	ug/l	99
39) 1,2-Dichloropropane	7.52	63	54068	20.87	ug/l	96
40) Dibromomethane	7.67	93	37954	21.08	ug/l	96

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

41) Bromodichloromethane	7.90	83	68851	20.36	ug/l	98
42) Vinyl Acetate	3.83	43	760628	104.50	ug/l	100
43) Ethyl Acetate	4.87	43	79768	21.73	ug/l	99
44) Isopropyl Acetate	6.47	43	125156	20.35	ug/l	99
45) 1,4-Dioxane	7.86	88	136	2.26	ug/l	92
46) Methyl methacrylate	7.78	41	65845	20.95	ug/l	97
47) n-amyl Acetate	10.90	43	111275	19.17	ug/l #	89
48) t-1,3-Dichloropropene	8.44	75	78939	19.88	ug/l	99
49) cis-1,3-Dichloropropene	9.05	75	70837	19.11	ug/l	97
50) 1,1,2-Trichloroethane	9.22	97	55737	20.99	ug/l	98
51) Ethyl methacrylate	9.18	69	79568	19.85	ug/l	98
52) 1,3-Dichloropropane	9.38	76	90414	20.85	ug/l	99
53) Dibromochloromethane	9.59	129	55121	19.55	ug/l	100
54) 1,2-Dibromoethane	9.68	107	57877	20.68	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	170752	89.69	ug/l	99
56) Bromoform	10.86	173	41801	18.58	ug/l	100
58) 4-Methyl-2-Pentanone	8.65	43	419098	105.56	ug/l	98
59) 2-Hexanone	9.50	43	324227	106.83	ug/l	100
61) Tetrachloroethene	9.34	164	71318	22.22	ug/l	98
62) Toluene	8.79	91	232886	20.66	ug/l	98
64) Chlorobenzene	10.14	112	152130	20.31	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	56691	20.65	ug/l	98
66) Ethyl Benzene	10.26	91	255375	20.12	ug/l	100
67) m/p-Xylenes	10.36	106	198762	40.29	ug/l	98
68) o-Xylene	10.70	106	96058	19.99	ug/l	97
69) Styrene	10.71	104	158201	19.73	ug/l	99
70) Isopropylbenzene	11.02	105	264087	19.93	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	80791	20.39	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	81457m	23.72	ug/l	
73) Bromobenzene	11.26	156	71755	19.47	ug/l	95
74) n-propylbenzene	11.37	91	300788	19.55	ug/l	99
75) 2-Chlorotoluene	11.43	91	181733	20.30	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	221406	19.68	ug/l	100
77) t-1,4-Dichloro-2-butene	11.08	75	18663	16.90	ug/l	83
78) 4-Chlorotoluene	11.51	91	210852	19.88	ug/l	99
79) tert-butylbenzene	12.07	119	234292	18.88	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	227618	19.81	ug/l	99
81) sec-Butylbenzene	11.95	105	263587	19.15	ug/l	100
82) p-Isopropyltoluene	12.07	119	234292	18.88	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	132761	19.58	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	132683	19.37	ug/l	99
85) n-Butylbenzene	12.39	91	199455	18.13	ug/l	99
86) Hexachloroethane	12.60	117	32354	17.20	ug/l	98
87) 1,2-Dichlorobenzene	12.40	146	135584	19.80	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	17290	19.54	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	94242	18.23	ug/l	100
90) Hexachlorobutadiene	13.79	225	49837	18.52	ug/l	99
91) Naphthalene	13.84	128	264953	19.34	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	99747	19.39	ug/l	99

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

