

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX060818\
 Data File : VX002392.D
 Acq On : 08 Jun 2018 09:40
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 6/11/2018 9:30:10 AM

Quant Time: Jun 08 13:10:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X052518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 25 02:17:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	49626	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	297797	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	285619	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	121941	31.23	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.10%
60) 4-Bromofluorobenzene	11.14	95	144710	29.60	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.67%
63) Toluene-d8	8.72	98	357657	28.10	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	93.67%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	64353	24.43	ug/l	98
3) Chloromethane	1.32	50	71581	22.84	ug/l	100
4) Vinyl Chloride	1.41	62	79449	25.48	ug/l	99
5) Bromomethane	1.64	94	43915	25.14	ug/l	100
6) Chloroethane	1.73	64	51907	28.14	ug/l	97
7) Trichlorofluoromethane	1.93	101	135676	28.53	ug/l	98
8) Diethyl Ether	2.19	74	47356	26.46	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	79944	31.22	ug/l	98
10) 1,1-Dichloroethene	2.38	96	67852	27.48	ug/l	93
11) Methyl Iodide	2.51	142	60718	15.65	ug/l	100
12) Methyl Acetate	2.78	43	92705	23.16	ug/l	99
13) Acrolein	2.29	56	30759	90.27	ug/l	99
14) Acrylonitrile	3.15	53	192477	116.90	ug/l	100
15) Acetone	2.45	58	67309	153.35	ug/l	92
16) Carbon Disulfide	2.57	76	157681	22.36	ug/l	99
17) Allyl chloride	2.73	41	133138	26.13	ug/l	89
18) Methylene Chloride	2.86	84	76513	27.57	ug/l	98
19) trans-1,2-Dichloroethene	3.17	96	70291	26.93	ug/l	97
20) Diisopropyl ether	3.87	45	261037	26.83	ug/l	95
21) 1,1-Dichloroethane	3.70	63	140015	27.03	ug/l	100
22) cis-1,2-Dichloroethene	4.60	96	72224	23.21	ug/l #	77
23) tert-Butyl Alcohol	3.06	59	87838	102.86	ug/l #	100
24) Methyl tert-Butyl Ether	3.20	73	248966	25.83	ug/l	99
25) Chloroform	5.22	83	126261	23.19	ug/l	98
26) Cyclohexane	5.58	56	111322	23.35	ug/l #	97
29) 1,1-Dichloropropene	5.81	75	93286	22.39	ug/l	99
30) 2-Butanone	4.70	43	272423	93.74	ug/l	98
31) 2,2-Dichloropropane	4.59	77	101505	27.72	ug/l	99
32) 1,1,1-Trichloroethane	5.49	97	110405	20.29	ug/l	99
33) Carbon Tetrachloride	5.79	117	96904	19.60	ug/l	94
34) Benzene	6.15	78	273435	21.73	ug/l	99
35) Methacrylonitrile	5.06	41	57404	17.84	ug/l	97
36) 1,2-Dichloroethane	6.20	62	109056	22.25	ug/l	99
37) Trichloroethene	7.21	130	77883	21.82	ug/l	93
38) Methylcyclohexane	7.46	83	117137	24.10	ug/l	99
39) 1,2-Dichloropropane	7.52	63	71383	20.98	ug/l	95
40) Dibromomethane	7.67	93	48874	21.41	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	89419	18.89	ug/l	99
42) Vinyl Acetate	3.82	43	1124622	122.32	ug/l	99
43) Ethyl Acetate	4.86	43	97593	17.11	ug/l	99
44) Isopropyl Acetate	6.46	43	169420	17.86	ug/l	98
45) 1,4-Dioxane	7.76	88	32261	357.50	ug/l #	86
46) Methyl methacrylate	7.78	41	84879	17.67	ug/l	95
47) n-amyl Acetate	10.90	43	156568	17.94	ug/l #	90
48) t-1,3-Dichloropropene	8.44	75	106734	20.06	ug/l	100
49) cis-1,3-Dichloropropene	9.04	75	98147	19.05	ug/l	97
50) 1,1,2-Trichloroethane	9.22	97	72368	22.09	ug/l	97
51) Ethyl methacrylate	9.18	69	109625	19.31	ug/l	94
52) 1,3-Dichloropropane	9.38	76	119025	21.54	ug/l	98
53) Dibromochloromethane	9.59	129	70694	17.66	ug/l	99
54) 1,2-Dibromoethane	9.68	107	73989	20.86	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	227866	85.53	ug/l	99
56) Bromoform	10.86	173	52585	14.94	ug/l	100
58) 4-Methyl-2-Pentanone	8.65	43	533958	85.91	ug/l	99
59) 2-Hexanone	9.50	43	427331	88.60	ug/l	100
61) Tetrachloroethene	9.34	164	89033	20.44	ug/l	98
62) Toluene	8.79	91	313342	21.48	ug/l	98
64) Chlorobenzene	10.14	112	204906	21.70	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	73450	19.12	ug/l	99
66) Ethyl Benzene	10.26	91	354109	21.60	ug/l	99
67) m/p-Xylenes	10.36	106	275869	44.33	ug/l	100
68) o-Xylene	10.70	106	135009	21.66	ug/l	98
69) Styrene	10.71	104	223151	21.33	ug/l	98
70) Isopropylbenzene	11.02	105	371964	22.29	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	102483	19.60	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	90899m	18.45	ug/l	
73) Bromobenzene	11.26	156	95706	21.35	ug/l	96
74) n-propylbenzene	11.37	91	430278	23.10	ug/l	99
75) 2-Chlorotoluene	11.43	91	250133	21.77	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	316179	22.29	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	27274	15.28	ug/l	85
78) 4-Chlorotoluene	11.51	91	290982	22.27	ug/l	99
79) tert-butylbenzene	12.07	119	349528	23.50	ug/l	100
80) 1,2,4-Trimethylbenzene	11.81	105	322552	22.49	ug/l	99
81) sec-Butylbenzene	11.95	105	387081	23.28	ug/l	100
82) p-Isopropyltoluene	12.07	119	349528	23.50	ug/l	100
83) 1,3-Dichlorobenzene	12.03	146	180284	22.70	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	180662	22.85	ug/l	100
85) n-Butylbenzene	12.39	91	300460	24.08	ug/l	99
86) Hexachloroethane	12.60	117	48367	16.34	ug/l	97
87) 1,2-Dichlorobenzene	12.40	146	183054	22.38	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	21502	14.12	ug/l	97
89) 1,2,4-Trichlorobenzene	13.65	180	133525	22.98	ug/l	100
90) Hexachlorobutadiene	13.79	225	74399	24.08	ug/l	98
91) Naphthalene	13.84	128	360899	19.69	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	136218	22.45	ug/l	99

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

