

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050719\
 Data File : VX009388.D
 Acq On : 07 May 2019 19:39
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 10:40:52 AM

Quant Time: May 08 02:26:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:46:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	28485	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	167184	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	150173	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	71512	30.26	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.87%
60) 4-Bromofluorobenzene	11.13	95	75776	29.70	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.00%
63) Toluene-d8	8.71	98	211897	29.76	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	26910	17.779 ug/l	99
3) Chloromethane	1.32	50	34585	16.999 ug/l	98
4) Vinyl Chloride	1.40	62	36795	18.129 ug/l	99
5) Bromomethane	1.64	94	17975	13.971 ug/l	100
6) Chloroethane	1.72	64	23952	17.995 ug/l	96
7) Trichlorofluoromethane	1.93	101	47986	19.147 ug/l	99
8) Diethyl Ether	2.19	74	22691	19.498 ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.38	101	29862	19.245 ug/l	98
10) 1,1-Dichloroethene	2.37	96	30335	19.470 ug/l	97
11) Methyl Iodide	2.51	142	16784	9.910 ug/l	98
12) Methyl Acetate	2.78	43	60659	20.670 ug/l	100
13) Acrolein	2.29	56	30562	75.930 ug/l	99
14) Acrylonitrile	3.15	53	134758	105.811 ug/l	100
15) Acetone	2.45	58	37169	101.649 ug/l	96
16) Carbon Disulfide	2.57	76	76052	18.041 ug/l	98
17) Allyl chloride	2.73	41	70254	18.782 ug/l	99
18) Methylene Chloride	2.85	84	37124	19.716 ug/l	98
19) trans-1,2-Dichloroethene	3.17	96	31743	19.108 ug/l	99
20) Diisopropyl ether	3.86	45	143851	19.529 ug/l	95
21) 1,1-Dichloroethane	3.70	63	69316	19.445 ug/l	97
22) cis-1,2-Dichloroethene	4.59	96	38217	19.099 ug/l	96
23) tert-Butyl Alcohol	3.06	59	59440	110.376 ug/l	100
24) Methyl tert-Butyl Ether	3.20	73	120989	19.843 ug/l	99
25) Chloroform	5.21	83	64231	19.745 ug/l	98
26) Cyclohexane	5.58	56	60933	18.341 ug/l	# 98
29) 1,1-Dichloropropene	5.81	75	45363	18.492 ug/l	98
30) 2-Butanone	4.68	43	204434	106.411 ug/l	100
31) 2,2-Dichloropropane	4.59	77	44463	16.441 ug/l	98
32) 1,1,1-Trichloroethane	5.50	97	52400	19.704 ug/l	97
33) Carbon Tetrachloride	5.78	117	42862	19.263 ug/l	97
34) Benzene	6.14	78	146793	19.409 ug/l	99
35) Methacrylonitrile	5.04	41	41925	20.858 ug/l	95
36) 1,2-Dichloroethane	6.20	62	55022	20.050 ug/l	99
37) Trichloroethene	7.21	130	34644	19.029 ug/l	96
38) Methylcyclohexane	7.46	83	53892	17.781 ug/l	99
39) 1,2-Dichloropropane	7.52	63	41808	19.412 ug/l	96
40) Dibromomethane	7.66	93	24341	19.913 ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	49240	19.721	ug/l	97
42) Vinyl Acetate	3.82	43	633715	99.943	ug/l	99
43) Ethyl Acetate	4.84	43	74273	21.395	ug/l	100
44) Isopropyl Acetate	6.45	43	113522	20.186	ug/l	98
45) 1,4-Dioxane	7.74	88	24113	436.715	ug/l	99
46) Methyl methacrylate	7.77	41	57077	20.334	ug/l	95
47) n-amyl Acetate	10.90	43	99314	19.603	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	55581	19.078	ug/l	95
49) cis-1,3-Dichloropropene	8.43	75	60858	19.028	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	38459	20.536	ug/l	97
51) Ethyl methacrylate	9.18	69	68261	19.724	ug/l	98
52) 1,3-Dichloropropane	9.37	76	66823	20.105	ug/l	99
53) Dibromochloromethane	9.59	129	36924	19.797	ug/l	99
54) 1,2-Dibromoethane	9.67	107	38661	20.128	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	181236	98.275	ug/l	99
56) Bromoform	10.85	173	27881	19.474	ug/l	100
58) 4-Methyl-2-Pentanone	8.64	43	387586	104.964	ug/l	100
59) 2-Hexanone	9.49	43	303372	104.746	ug/l	99
61) Tetrachloroethene	9.34	164	31251	18.877	ug/l	99
62) Toluene	8.79	91	156127	19.456	ug/l	100
64) Chlorobenzene	10.14	112	93168	19.292	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	34901	19.737	ug/l	98
66) Ethyl Benzene	10.25	91	170799	19.106	ug/l	100
67) m/p-Xylenes	10.36	106	123019	37.691	ug/l	99
68) o-Xylene	10.70	106	62300	19.412	ug/l	98
69) Styrene	10.71	104	108993	19.346	ug/l	100
70) Isopropylbenzene	11.02	105	166683	19.312	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	64794	20.498	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	55308m	20.304	ug/l	
73) Bromobenzene	11.26	156	41298	19.366	ug/l	100
74) n-propylbenzene	11.36	91	187622	18.759	ug/l	99
75) 2-Chlorotoluene	11.42	91	114777	19.132	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	139294	19.052	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	19155	17.433	ug/l	92
78) 4-Chlorotoluene	11.51	91	127694	18.741	ug/l	99
79) tert-butylbenzene	11.77	119	133511	18.890	ug/l	100
80) 1,2,4-Trimethylbenzene	11.80	105	137337	18.742	ug/l	100
81) sec-Butylbenzene	11.94	105	159105	18.947	ug/l	100
82) p-Isopropyltoluene	12.06	119	142119	18.605	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	71902	18.880	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	71237	18.775	ug/l	99
85) n-Butylbenzene	12.38	91	123464	17.664	ug/l	99
86) Hexachloroethane	12.60	117	23927	18.408	ug/l	99
87) 1,2-Dichlorobenzene	12.39	146	74433	19.416	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.00	75	15396	20.960	ug/l	96
89) 1,2,4-Trichlorobenzene	13.65	180	51429	18.822	ug/l	99
90) Hexachlorobutadiene	13.78	225	25432	18.633	ug/l	99
91) Naphthalene	13.83	128	182042	20.348	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	53969	19.430	ug/l	99

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

