

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040219\
 Data File : VX008585.D
 Acq On : 02 Apr 2019 10:20
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 4/3/2019 10:48:24 AM

Quant Time: Apr 02 15:24:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032719W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Mar 27 12:01:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	34943	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	201454	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	175582	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	86608	29.63	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.77%
60) 4-Bromofluorobenzene	11.13	95	91998	30.07	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.23%
63) Toluene-d8	8.71	98	259613	31.15	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.83%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	49126	20.560	ug/l 97
3) Chloromethane	1.32	50	62534	19.976	ug/l 97
4) Vinyl Chloride	1.40	62	61518	19.495	ug/l 98
5) Bromomethane	1.64	94	23266	14.230	ug/l 97
6) Chloroethane	1.72	64	38151	18.472	ug/l 97
7) Trichlorofluoromethane	1.93	101	71400	20.386	ug/l 100
8) Diethyl Ether	2.18	74	32731	19.816	ug/l 79
9) 1,1,2-Trichlorotrifluoroet	2.38	101	44334	20.326	ug/l 93
10) 1,1-Dichloroethene	2.37	96	44440	20.083	ug/l 81
11) Methyl Iodide	2.51	142	28462	12.422	ug/l 95
12) Methyl Acetate	3.19	43	36885	20.566	ug/l 95
13) Acrolein	2.29	56	46044	89.491	ug/l 98
14) Acrylonitrile	3.14	53	173994	104.935	ug/l 100
15) Acetone	2.44	58	59689	116.735	ug/l 92
16) Carbon Disulfide	2.57	76	135357	19.664	ug/l 99
17) Allyl chloride	2.73	41	101509	20.411	ug/l 92
18) Methylene Chloride	2.85	84	53914	20.382	ug/l # 84
19) trans-1,2-Dichloroethene	3.17	96	47900	20.261	ug/l 88
20) Diisopropyl ether	3.85	45	204238	21.100	ug/l # 94
21) 1,1-Dichloroethane	3.69	63	101526	20.896	ug/l 95
22) cis-1,2-Dichloroethene	4.59	96	55597	20.351	ug/l # 79
23) tert-Butyl Alcohol	3.04	59	67629	101.005	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	167911	20.647	ug/l 99
25) Chloroform	5.21	83	91628	20.820	ug/l 95
26) Cyclohexane	5.57	56	99805	21.144	ug/l # 81
29) 1,1-Dichloropropene	5.79	75	71577	21.119	ug/l 93
30) 2-Butanone	4.67	43	276761	111.050	ug/l 93
31) 2,2-Dichloropropane	4.58	77	71101	21.005	ug/l 95
32) 1,1,1-Trichloroethane	5.49	97	74211	21.086	ug/l 95
33) Carbon Tetrachloride	5.78	117	60645	20.595	ug/l 99
34) Benzene	6.14	78	216083	20.857	ug/l # 96
35) Methacrylonitrile	5.04	41	53714	21.194	ug/l 92
36) 1,2-Dichloroethane	6.19	62	77602	21.010	ug/l 98
37) Trichloroethene	7.21	130	50409	21.158	ug/l 83
38) Methylcyclohexane	7.46	83	90388	21.165	ug/l 88
39) 1,2-Dichloropropane	7.51	63	60785	20.686	ug/l 96
40) Dibromomethane	7.66	93	35474	20.840	ug/l 89

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

41) Bromodichloromethane	7.90	83	68926	20.594	ug/l	98
42) Vinyl Acetate	3.81	43	895233	105.965	ug/l #	94
43) Ethyl Acetate	4.83	43	94931	21.164	ug/l #	82
44) Isopropyl Acetate	6.44	43	151184	20.844	ug/l	98
45) 1,4-Dioxane	7.74	88	29182	404.158	ug/l #	81
46) Methyl methacrylate	7.77	41	75978	20.625	ug/l	87
47) n-amyl Acetate	10.90	43	131856	20.013	ug/l	94
48) t-1,3-Dichloropropene	9.04	75	75350	19.932	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	86817	20.532	ug/l	94
50) 1,1,2-Trichloroethane	9.21	97	51898	20.534	ug/l	96
51) Ethyl methacrylate	9.18	69	94815	20.159	ug/l	89
52) 1,3-Dichloropropane	9.37	76	93640	20.825	ug/l	100
53) Dibromochloromethane	9.58	129	49561	19.926	ug/l	99
54) 1,2-Dibromoethane	9.67	107	53422	20.504	ug/l	98
55) 2-Chloroethyl vinyl ether	8.30	63	240361	101.297	ug/l #	94
56) Bromoform	10.85	173	34301	18.923	ug/l #	97
58) 4-Methyl-2-Pentanone	8.64	43	498363	107.588	ug/l #	95
59) 2-Hexanone	9.49	43	401226	109.636	ug/l	97
61) Tetrachloroethene	9.34	164	43927	22.872	ug/l	98
62) Toluene	8.78	91	228347	21.480	ug/l	99
64) Chlorobenzene	10.13	112	132609	21.289	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.22	131	46239	21.054	ug/l	97
66) Ethyl Benzene	10.25	91	249362	21.133	ug/l	95
67) m/p-Xylenes	10.35	106	181165	42.094	ug/l	91
68) o-Xylene	10.69	106	87508	20.778	ug/l	91
69) Styrene	10.71	104	152147	20.761	ug/l	95
70) Isopropylbenzene	11.02	105	237300	21.360	ug/l	95
71) 1,1,2,2-Tetrachloroethane	11.27	83	87693	21.130	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	75694m	21.577	ug/l	
73) Bromobenzene	11.26	156	54882	20.764	ug/l	77
74) n-propylbenzene	11.36	91	277632	20.977	ug/l	94
75) 2-Chlorotoluene	11.42	91	166449	21.139	ug/l	90
76) 1,3,5-Trimethylbenzene	11.51	105	199700	21.025	ug/l	95
77) t-1,4-Dichloro-2-butene	11.07	75	26662	19.814	ug/l	96
78) 4-Chlorotoluene	11.51	91	188311	20.780	ug/l	90
79) tert-butylbenzene	12.06	119	203830	20.999	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	198408	20.950	ug/l	95
81) sec-Butylbenzene	11.94	105	228672	21.072	ug/l	95
82) p-Isopropyltoluene	12.06	119	203830	20.999	ug/l	96
83) 1,3-Dichlorobenzene	12.02	146	97993	20.883	ug/l	94
84) 1,4-Dichlorobenzene	12.10	146	97298	20.749	ug/l	96
85) n-Butylbenzene	12.38	91	189185	20.513	ug/l	96
86) Hexachloroethane	12.59	117	32942	20.312	ug/l	97
87) 1,2-Dichlorobenzene	12.39	146	98378	20.807	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.00	75	19034	20.692	ug/l #	75
89) 1,2,4-Trichlorobenzene	13.65	180	68703	21.065	ug/l	99
90) Hexachlorobutadiene	13.78	225	33166	21.108	ug/l	98
91) Naphthalene	13.83	128	235485	21.074	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	70459	21.447	ug/l	100

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

