

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091120\
 Data File : VX018350.D
 Acq On : 11 Sep 2020 09:54
 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
 9/14/2020 12:09:41 PM

Quant Time: Sep 12 06:18:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X090420W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 04 12:13:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	84583	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	436274	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	404487	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	196605	29.46	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.20%
60) 4-Bromofluorobenzene	11.12	95	212618	30.33	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.10%
63) Toluene-d8	8.70	98	541586	30.38	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.27%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	91150	20.365 ug/l	95
3) Chloromethane	1.31	50	91891	19.328 ug/l	99
4) Vinyl Chloride	1.39	62	102537	20.483 ug/l	100
5) Bromomethane	1.64	94	68969	20.249 ug/l	100
6) Chloroethane	1.72	64	62813	20.644 ug/l	93
7) Trichlorofluoromethane	1.92	101	180895	21.323 ug/l	99
8) Diethyl Ether	2.17	74	54835	20.502 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.37	101	92814	21.413 ug/l	98
10) 1,1-Dichloroethene	2.36	96	83660	19.662 ug/l	87
11) Methyl Iodide	2.49	142	72816	18.855 ug/l	99
12) Methyl Acetate	2.75	43	110882	19.797 ug/l	99
13) Acrolein	2.27	56	47417	104.901 ug/l	94
14) Acrylonitrile	3.11	53	247560	97.547 ug/l	99
15) Acetone	2.42	58	69518	100.749 ug/l	84
16) Carbon Disulfide	2.55	76	251270	20.281 ug/l	97
17) Allyl chloride	2.71	41	155905	20.500 ug/l	97
18) Methylene Chloride	2.83	84	100727	20.171 ug/l	99
19) trans-1,2-Dichloroethene	3.14	96	99706	21.106 ug/l	96
20) Diisopropyl ether	3.82	45	309053	20.527 ug/l	97
21) 1,1-Dichloroethane	3.67	63	175580	20.318 ug/l	98
22) cis-1,2-Dichloroethene	4.57	96	107322	20.533 ug/l	96
23) tert-Butyl Alcohol	3.00	59	102382	93.094 ug/l	100
24) Methyl tert-Butyl Ether	3.17	73	309613	20.468 ug/l	98
25) Chloroform	5.17	83	188024	20.387 ug/l	99
26) Cyclohexane	5.54	56	142996	20.501 ug/l #	50
29) 1,1-Dichloropropene	5.77	75	138167	20.747 ug/l	100
30) 2-Butanone	4.63	43	358115	98.210 ug/l	100
31) 2,2-Dichloropropane	4.55	77	170270	21.167 ug/l	99
32) 1,1,1-Trichloroethane	5.46	97	182412	20.926 ug/l	99
33) Carbon Tetrachloride	5.76	117	167573	20.630 ug/l	99
34) Benzene	6.11	78	393249	20.687 ug/l #	96
35) Methacrylonitrile	5.00	41	74256	19.323 ug/l	95
36) 1,2-Dichloroethane	6.16	62	160766	20.434 ug/l #	100
37) Trichloroethene	7.18	130	113221	20.597 ug/l	97
38) Methylcyclohexane	7.44	83	147668	20.817 ug/l	98
39) 1,2-Dichloropropane	7.49	63	100156	19.671 ug/l	95
40) Dibromomethane	7.63	93	73432	19.972 ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	154117	20.225	ug/l	89
42) Vinyl Acetate	3.78	43	1365514	100.373	ug/l	99
43) Ethyl Acetate	4.79	43	136422	18.815	ug/l	98
44) Isopropyl Acetate	6.41	43	227685	19.485	ug/l	98
45) 1,4-Dioxane	7.71	88	38837	397.837	ug/l #	88
46) Methyl methacrylate	7.74	41	109726	19.080	ug/l	97
47) n-amyl Acetate	10.88	43	194560	18.949	ug/l	100
48) t-1,3-Dichloropropene	9.02	75	163065	19.921	ug/l	95
49) cis-1,3-Dichloropropene	8.42	75	173031	20.122	ug/l	99
50) 1,1,2-Trichloroethane	9.20	97	100841	19.682	ug/l	96
51) Ethyl methacrylate	9.16	69	144281	19.440	ug/l	98
52) 1,3-Dichloropropane	9.35	76	168006	19.756	ug/l	98
53) Dibromochloromethane	9.56	129	126632	19.879	ug/l	97
54) 1,2-Dibromoethane	9.65	107	110006	19.573	ug/l	98
55) 2-Chloroethyl vinyl ether	8.29	63	371877	95.953	ug/l	99
56) Bromoform	10.84	173	93077	19.230	ug/l	96
58) 4-Methyl-2-Pentanone	8.62	43	707784	101.736	ug/l	100
59) 2-Hexanone	9.47	43	542927	103.031	ug/l	99
61) Tetrachloroethene	9.32	164	110170	21.839	ug/l	96
62) Toluene	8.76	91	426023	20.928	ug/l	99
64) Chlorobenzene	10.12	112	265809	20.319	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.20	131	109136	20.600	ug/l	99
66) Ethyl Benzene	10.23	91	465714	20.705	ug/l	96
67) m/p-Xylenes	10.34	106	363027	42.203	ug/l	98
68) o-Xylene	10.68	106	170338	20.957	ug/l	98
69) Styrene	10.70	104	296123	20.883	ug/l	100
70) Isopropylbenzene	11.00	105	466492	20.639	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.25	83	152187	20.604	ug/l	97
72) 1,2,3-Trichloropropane	11.28	75	143086m	20.162	ug/l	
73) Bromobenzene	11.24	156	125995	20.347	ug/l	99
74) n-propylbenzene	11.34	91	555172	20.860	ug/l	99
75) 2-Chlorotoluene	11.40	91	334155	20.715	ug/l	99
76) 1,3,5-Trimethylbenzene	11.49	105	404547	20.545	ug/l	98
77) t-1,4-Dichloro-2-butene	11.05	75	54431	19.737	ug/l	96
78) 4-Chlorotoluene	11.49	91	404042	20.997	ug/l	99
79) tert-butylbenzene	11.76	119	382915	20.187	ug/l	97
80) 1,2,4-Trimethylbenzene	11.79	105	405969	20.846	ug/l	99
81) sec-Butylbenzene	11.93	105	456517	20.605	ug/l	100
82) p-Isopropyltoluene	12.05	119	420059	20.334	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	235705	21.289	ug/l	99
84) 1,4-Dichlorobenzene	12.08	146	231176	20.882	ug/l	99
85) n-Butylbenzene	12.37	91	381797	20.992	ug/l	99
86) Hexachloroethane	12.58	117	79251	19.485	ug/l	97
87) 1,2-Dichlorobenzene	12.37	146	223012	21.511	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.98	75	37948	20.083	ug/l	95
89) 1,2,4-Trichlorobenzene	13.63	180	149396	21.300	ug/l	96
90) Hexachlorobutadiene	13.76	225	67927	22.895	ug/l	95
91) Naphthalene	13.82	128	446200	20.384	ug/l	99
92) 1,2,3-Trichlorobenzene	14.00	180	147319	21.231	ug/l	97

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

