

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX010920\
 Data File : VX014520.D
 Acq On : 10 Jan 2020 00:21
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

apatel
 1/10/2020 8:35:21 AM

Quant Time: Jan 10 08:22:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 13 01:35:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	74862	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	417097	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	386141	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	160688	29.97	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.90%
60) 4-Bromofluorobenzene	11.13	95	185019	29.67	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.90%
63) Toluene-d8	8.71	98	514668	29.82	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	66309	17.535	ug/l 98
3) Chloromethane	1.32	50	95176	17.857	ug/l 98
4) Vinyl Chloride	1.40	62	101487	18.575	ug/l 100
5) Bromomethane	1.64	94	65113	16.302	ug/l 97
6) Chloroethane	1.72	64	64887	19.226	ug/l 100
7) Trichlorofluoromethane	1.93	101	132461	19.483	ug/l 99
8) Diethyl Ether	2.18	74	61284	19.611	ug/l 92
9) 1,1,2-Trichlorotrifluoroet	2.38	101	78834	19.442	ug/l 98
10) 1,1-Dichloroethene	2.37	96	79226	18.899	ug/l 93
11) Methyl Iodide	2.50	142	90999	16.862	ug/l 99
12) Methyl Acetate	2.76	43	132116	20.358	ug/l 97
13) Acrolein	2.28	56	65088	82.691	ug/l 99
14) Acrylonitrile	3.13	53	251297	99.052	ug/l 99
15) Acetone	2.43	58	81870	109.850	ug/l 92
16) Carbon Disulfide	2.56	76	210287	18.517	ug/l 97
17) Allyl chloride	2.72	41	143026	18.987	ug/l 92
18) Methylene Chloride	2.85	84	92412	17.991	ug/l 98
19) trans-1,2-Dichloroethene	3.16	96	87686	19.101	ug/l 99
20) Diisopropyl ether	3.84	45	292968	18.954	ug/l 93
21) 1,1-Dichloroethane	3.69	63	158929	18.945	ug/l 100
22) cis-1,2-Dichloroethene	4.59	96	101938	19.156	ug/l 98
23) tert-Butyl Alcohol	3.02	59	106493	107.017	ug/l 100
24) Methyl tert-Butyl Ether	3.19	73	275394	19.447	ug/l 100
25) Chloroform	5.20	83	156727	19.596	ug/l 100
26) Cyclohexane	5.57	56	140093	18.728	ug/l # 100
29) 1,1-Dichloropropene	5.79	75	116883	19.400	ug/l 100
30) 2-Butanone	4.65	43	368143	103.668	ug/l 98
31) 2,2-Dichloropropane	4.58	77	107745	19.333	ug/l 100
32) 1,1,1-Trichloroethane	5.49	97	128245	19.245	ug/l 100
33) Carbon Tetrachloride	5.78	117	108918	19.227	ug/l 99
34) Benzene	6.14	78	365584	19.460	ug/l 99
35) Methacrylonitrile	5.03	41	75901	19.873	ug/l 96
36) 1,2-Dichloroethane	6.18	62	127816	19.587	ug/l 100
37) Trichloroethene	7.21	130	108931	21.310	ug/l 98
38) Methylcyclohexane	7.46	83	137979	19.199	ug/l 98
39) 1,2-Dichloropropane	7.51	63	93499	19.163	ug/l 95
40) Dibromomethane	7.65	93	62703	20.117	ug/l 99

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

41) Bromodichloromethane	7.89	83	117309	19.437	ug/l	100
42) Vinyl Acetate	3.81	43	668257	53.300	ug/l	98
43) Ethyl Acetate	4.82	43	134727	19.772	ug/l	98
44) Isopropyl Acetate	6.43	43	219432	19.227	ug/l	97
45) 1,4-Dioxane	7.73	88	46526	435.332	ug/l	99
46) Methyl methacrylate	7.76	41	105268	18.989	ug/l	97
47) n-amyl Acetate	10.89	43	186903	18.418	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	127777	19.398	ug/l	95
49) cis-1,3-Dichloropropene	8.43	75	143353	19.351	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	92481	19.225	ug/l	99
51) Ethyl methacrylate	9.17	69	146914	19.200	ug/l	98
52) 1,3-Dichloropropane	9.37	76	158298	19.369	ug/l	99
53) Dibromochloromethane	9.57	129	94488	19.644	ug/l	99
54) 1,2-Dibromoethane	9.67	107	98608	19.909	ug/l	96
55) 2-Chloroethyl vinyl ether	8.31	63	336523	99.770	ug/l	99
56) Bromoform	10.85	173	70948	18.914	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	697376	96.524	ug/l	99
59) 2-Hexanone	9.48	43	542440	98.933	ug/l	99
61) Tetrachloroethene	9.33	164	150095	29.383	ug/l	94
62) Toluene	8.78	91	396004	19.282	ug/l	99
64) Chlorobenzene	10.14	112	245784	19.102	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.21	131	90581	19.013	ug/l	100
66) Ethyl Benzene	10.25	91	430598	19.159	ug/l	99
67) m/p-Xylenes	10.35	106	327621	38.133	ug/l	99
68) o-Xylene	10.70	106	158575	18.631	ug/l	99
69) Styrene	10.71	104	264203	18.254	ug/l	99
70) Isopropylbenzene	11.01	105	420472	19.117	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	121814	15.617	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	118096m	17.010	ug/l	
73) Bromobenzene	11.25	156	109166	18.593	ug/l	99
74) n-propylbenzene	11.35	91	472468	18.939	ug/l	98
75) 2-Chlorotoluene	11.42	91	286117	18.981	ug/l	98
76) 1,3,5-Trimethylbenzene	11.50	105	349545	18.734	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	41444	18.076	ug/l	93
78) 4-Chlorotoluene	11.51	91	325733	18.911	ug/l	98
79) tert-butylbenzene	11.76	119	295306	16.420	ug/l	92
80) 1,2,4-Trimethylbenzene	11.80	105	343954	18.436	ug/l	100
81) sec-Butylbenzene	11.94	105	399633	18.682	ug/l	99
82) p-Isopropyltoluene	12.06	119	363314	18.821	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	190009	18.567	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	189444	18.590	ug/l	99
85) n-Butylbenzene	12.38	91	304082	18.735	ug/l	100
86) Hexachloroethane	12.59	117	62284	17.786	ug/l	97
87) 1,2-Dichlorobenzene	12.38	146	192151	18.486	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	29790	19.162	ug/l	97
89) 1,2,4-Trichlorobenzene	13.64	180	127280	19.159	ug/l	98
90) Hexachlorobutadiene	13.77	225	62914	19.923	ug/l	99
91) Naphthalene	13.83	128	395087	19.786	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	133320	19.785	ug/l	98

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

