

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX022120\
 Data File : VX014987.D
 Acq On : 21 Feb 2020 10:44
 Operator : JC/SP
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 2/24/2020 11:29:04 AM

Quant Time: Feb 22 00:37:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X022120W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Feb 21 10:51:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	73964	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	411951	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	379282	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	151488	29.10	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.00%
60) 4-Bromofluorobenzene	11.14	95	180256	29.81	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.37%
63) Toluene-d8	8.71	98	492426	28.91	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.37%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	476587	101.629	ug/l 96
3) Chloromethane	1.32	50	649592	123.178	ug/l 98
4) Vinyl Chloride	1.41	62	694964	118.101	ug/l 100
5) Bromomethane	1.63	94	511766	133.144	ug/l 99
6) Chloroethane	1.71	64	447965	131.163	ug/l 100
7) Trichlorofluoromethane	1.92	101	997721	144.839	ug/l 99
8) Diethyl Ether	2.18	74	431654	144.181	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	2.37	101	579595	144.415	ug/l 99
10) 1,1-Dichloroethene	2.37	96	598833	148.108	ug/l 97
11) Methyl Iodide	2.50	142	821877	155.263	ug/l 100
12) Methyl Acetate	2.76	43	743791	108.546	ug/l 97
13) Acrolein	2.28	56	740682	920.594	ug/l 100
14) Acrylonitrile	3.13	53	1719068	705.027	ug/l 100
15) Acetone	2.44	58	557828	668.591	ug/l 98
16) Carbon Disulfide	2.56	76	1639703	148.507	ug/l 99
17) Allyl chloride	2.72	41	1053909	142.440	ug/l 98
18) Methylene Chloride	2.85	84	666426	141.256	ug/l 98
19) trans-1,2-Dichloroethene	3.15	96	643013	147.175	ug/l 97
20) Diisopropyl ether	3.84	45	2098970	142.268	ug/l 95
21) 1,1-Dichloroethane	3.69	63	1161614	145.215	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	754885	149.742	ug/l 98
23) tert-Butyl Alcohol	3.04	59	692794	686.041	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	1997733	148.713	ug/l 98
25) Chloroform	5.20	83	1150318	146.833	ug/l 98
26) Cyclohexane	5.58	56	1044416	141.974	ug/l # 99
29) 1,1-Dichloropropene	5.79	75	900820	151.215	ug/l 99
30) 2-Butanone	4.66	43	2532083	681.021	ug/l 98
31) 2,2-Dichloropropane	4.58	77	984725	153.426	ug/l 99
32) 1,1,1-Trichloroethane	5.49	97	1012610	152.652	ug/l 98
33) Carbon Tetrachloride	5.78	117	888099	155.175	ug/l 94
34) Benzene	6.14	78	2648158	144.617	ug/l 99
35) Methacrylonitrile	5.03	41	533519	144.362	ug/l 96
36) 1,2-Dichloroethane	6.18	62	933311	145.897	ug/l 99
37) Trichloroethene	7.21	130	762786	151.950	ug/l 96
38) Methylcyclohexane	7.46	83	1114738	150.741	ug/l 99
39) 1,2-Dichloropropane	7.51	63	693326	145.869	ug/l 100
40) Dibromomethane	7.65	93	461106	148.948	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	946074	156.186	ug/l	100
42) Vinyl Acetate	3.81	43	9158888	780.313	ug/l	98
43) Ethyl Acetate	4.82	43	951795	142.065	ug/l	97
44) Isopropyl Acetate	6.43	43	1625529	148.996	ug/l	98
45) 1,4-Dioxane	7.73	88	294606	2749.402	ug/l	99
46) Methyl methacrylate	7.76	41	815006	152.105	ug/l	99
47) n-amyl Acetate	10.89	43	1499655	162.320	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	1096763	165.896	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	1178076	158.495	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	687958	147.047	ug/l	96
51) Ethyl methacrylate	9.17	69	1141846	156.742	ug/l	99
52) 1,3-Dichloropropane	9.37	76	1163027	146.725	ug/l	99
53) Dibromochloromethane	9.58	129	795290	164.090	ug/l	100
54) 1,2-Dibromoethane	9.67	107	732458	151.042	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	2836651	822.794	ug/l	100
56) Bromoform	10.85	173	653303	174.960	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	4830213	699.871	ug/l	98
59) 2-Hexanone	9.49	43	3763047	701.994	ug/l	98
61) Tetrachloroethene	9.33	164	736921	134.388	ug/l	99
62) Toluene	8.78	91	2925758	147.262	ug/l	99
64) Chlorobenzene	10.14	112	1900086	152.736	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.21	131	719954	156.554	ug/l	100
66) Ethyl Benzene	10.25	91	3329479	153.325	ug/l	99
67) m/p-Xylenes	10.35	106	2568220	308.929	ug/l	96
68) o-Xylene	10.70	106	1251705	154.726	ug/l	98
69) Styrene	10.71	104	2185566	159.303	ug/l	99
70) Isopropylbenzene	11.01	105	3271973	153.631	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	1072204	151.159	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	853966m	137.576	ug/l	
73) Bromobenzene	11.25	156	896848	158.345	ug/l	98
74) n-propylbenzene	11.35	91	3811755	156.469	ug/l	99
75) 2-Chlorotoluene	11.42	91	2214060	151.903	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	2831779	159.447	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	401732	171.214	ug/l	95
78) 4-Chlorotoluene	11.51	91	2625969	158.497	ug/l	99
79) tert-butylbenzene	11.76	119	2740929	164.025	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	2805057	158.754	ug/l	100
81) sec-Butylbenzene	11.94	105	3269339	158.578	ug/l	99
82) p-Isopropyltoluene	12.06	119	3052322	161.983	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	1605482	162.659	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	1606907	162.765	ug/l	98
85) n-Butylbenzene	12.38	91	2813837	170.606	ug/l	99
86) Hexachloroethane	12.59	117	576182	171.169	ug/l	100
87) 1,2-Dichlorobenzene	12.38	146	1591575	160.017	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.99	75	243225	160.106	ug/l	94
89) 1,2,4-Trichlorobenzene	13.64	180	1219343	182.759	ug/l	99
90) Hexachlorobutadiene	13.77	225	580944	174.662	ug/l	96
91) Naphthalene	13.83	128	3429775	172.134	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	1172478	173.283	ug/l	99

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

