

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX021319\
 Data File : VX007500.D
 Acq On : 12 Feb 2019 23:02
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 2/13/2019 11:52:40 AM

Quant Time: Feb 13 07:54:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X021319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 13 07:08:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	79002	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	419091	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	372813	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	153576	29.66	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.87%
60) 4-Bromofluorobenzene	11.13	95	173039	30.19	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.63%
63) Toluene-d8	8.71	98	511991	30.46	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.53%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	79300	21.426	ug/l 100
3) Chloromethane	1.33	50	88300	21.566	ug/l 100
4) Vinyl Chloride	1.41	62	96423	20.914	ug/l 100
5) Bromomethane	1.64	94	76948	16.834	ug/l 100
6) Chloroethane	1.73	64	62847	20.251	ug/l 100
7) Trichlorofluoromethane	1.93	101	151870	19.742	ug/l 100
8) Diethyl Ether	2.19	74	60236	20.557	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.39	101	84726	18.805	ug/l 100
10) 1,1-Dichloroethene	2.38	96	85383	20.527	ug/l 100
11) Methyl Iodide	2.51	142	116215	17.757	ug/l 100
12) Methyl Acetate	2.78	43	111983	16.602	ug/l 100
13) Acrolein	2.30	56	96144	158.235	ug/l 100
14) Acrylonitrile	3.15	53	270366	102.606	ug/l 100
15) Acetone	2.45	58	73736	99.691	ug/l 100
16) Carbon Disulfide	2.57	76	219371	21.327	ug/l 100
17) Allyl chloride	2.73	41	141221	19.708	ug/l 100
18) Methylene Chloride	2.86	84	95318	20.083	ug/l 100
19) trans-1,2-Dichloroethene	3.17	96	88930	19.835	ug/l 100
20) Diisopropyl ether	3.87	45	274977	20.514	ug/l 100
21) 1,1-Dichloroethane	3.70	63	153837	20.205	ug/l 100
22) cis-1,2-Dichloroethene	4.60	96	102088	20.607	ug/l 100
23) tert-Butyl Alcohol	3.07	59	112127	101.716	ug/l 100
24) Methyl tert-Butyl Ether	3.20	73	292247	20.161	ug/l 100
25) Chloroform	5.21	83	161721	20.456	ug/l 100
26) Cyclohexane	5.57	56	129964	20.121	ug/l # 100
29) 1,1-Dichloropropene	5.80	75	114788	20.683	ug/l 100
30) 2-Butanone	4.70	43	346554	105.178	ug/l 100
31) 2,2-Dichloropropane	4.59	77	92673	17.152	ug/l 100
32) 1,1,1-Trichloroethane	5.49	97	137130	20.799	ug/l 100
33) Carbon Tetrachloride	5.79	117	117484	20.248	ug/l 100
34) Benzene	6.14	78	362585	21.105	ug/l 100
35) Methacrylonitrile	5.06	41	69794	20.652	ug/l 100
36) 1,2-Dichloroethane	6.20	62	122942	20.795	ug/l 100
37) Trichloroethene	7.21	130	104177	20.653	ug/l 100
38) Methylcyclohexane	7.46	83	131771	18.928	ug/l 100
39) 1,2-Dichloropropane	7.52	63	89893	20.852	ug/l 100
40) Dibromomethane	7.66	93	66367	21.242	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	111926	20.466	ug/l	100
42) Vinyl Acetate	3.82	43	1210097	106.412	ug/l	100
43) Ethyl Acetate	4.86	43	132173	21.223	ug/l	100
44) Isopropyl Acetate	6.46	43	195898	20.232	ug/l	100
45) 1,4-Dioxane	7.75	88	48084	413.071	ug/l	100
46) Methyl methacrylate	7.77	41	100127	20.343	ug/l	100
47) n-amyl Acetate	10.90	43	172164	20.298	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	111884	18.992	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	129367	19.735	ug/l	100
50) 1,1,2-Trichloroethane	9.21	97	96273	20.717	ug/l	100
51) Ethyl methacrylate	9.18	69	138062	20.725	ug/l	100
52) 1,3-Dichloropropane	9.37	76	155449	20.853	ug/l	100
53) Dibromochloromethane	9.59	129	94415	20.060	ug/l	100
54) 1,2-Dibromoethane	9.67	107	104266	20.886	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	347994	97.205	ug/l	100
56) Bromoform	10.85	173	69975	19.549	ug/l	100
58) 4-Methyl-2-Pentanone	8.65	43	679733	107.142	ug/l	100
59) 2-Hexanone	9.49	43	512864	105.456	ug/l	100
61) Tetrachloroethene	9.34	164	105131	20.321	ug/l	100
62) Toluene	8.79	91	401668	21.008	ug/l	100
64) Chlorobenzene	10.14	112	262493	20.835	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	93426	20.814	ug/l	100
66) Ethyl Benzene	10.25	91	420568	20.430	ug/l	100
67) m/p-Xylenes	10.36	106	327629	40.414	ug/l	100
68) o-Xylene	10.70	106	160780	20.239	ug/l	100
69) Styrene	10.71	104	257249	20.065	ug/l	100
70) Isopropylbenzene	11.02	105	423533	20.177	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	143978	21.185	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	132091m	20.846	ug/l	100
73) Bromobenzene	11.26	156	116233	20.012	ug/l	100
74) n-propylbenzene	11.36	91	468101	19.877	ug/l	100
75) 2-Chlorotoluene	11.42	91	281347	20.116	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	344815	19.766	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	34131	18.402	ug/l	100
78) 4-Chlorotoluene	11.51	91	315073	19.462	ug/l	100
79) tert-butylbenzene	12.06	119	364375	19.342	ug/l	100
80) 1,2,4-Trimethylbenzene	11.80	105	352646	19.965	ug/l	100
81) sec-Butylbenzene	11.94	105	411507	19.616	ug/l	100
82) p-Isopropyltoluene	12.06	119	364375	19.342	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	203903	19.809	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	204264	19.861	ug/l	100
85) n-Butylbenzene	12.39	91	292162	18.159	ug/l	100
86) Hexachloroethane	12.60	117	58561	19.691	ug/l	100
87) 1,2-Dichlorobenzene	12.39	146	205710	20.007	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.00	75	28133	20.257	ug/l	100
89) 1,2,4-Trichlorobenzene	13.65	180	129875	18.585	ug/l	100
90) Hexachlorobutadiene	13.78	225	61342	18.434	ug/l	100
91) Naphthalene	13.83	128	421328	19.722	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	132415	19.088	ug/l	100

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

