

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020520\
 Data File : VX014815.D
 Acq On : 05 Feb 2020 12:13
 Operator : JC/SP
 Sample : VX0205WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0205WBS01

Manual Integrations
 APPROVED

MMDadoda
 2/6/2020 1:32:30 PM

Quant Time: Feb 06 03:43:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 15 12:41:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	65188	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	344160	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	321126	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	145545	31.76	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.87%
60) 4-Bromofluorobenzene	11.13	95	153558	29.88	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.60%
63) Toluene-d8	8.71	98	427907	29.50	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.33%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	82293	18.267	ug/l 96
3) Chloromethane	1.32	50	88692	17.982	ug/l 95
4) Vinyl Chloride	1.40	62	96913	17.499	ug/l 96
5) Bromomethane	1.63	94	60472	17.498	ug/l 98
6) Chloroethane	1.72	64	58414	18.710	ug/l 100
7) Trichlorofluoromethane	1.92	101	111719	18.219	ug/l 100
8) Diethyl Ether	2.18	74	53996	20.159	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	2.37	101	66908	18.649	ug/l 99
10) 1,1-Dichloroethene	2.37	96	65457	18.139	ug/l 97
11) Methyl Iodide	2.50	142	89785	18.552	ug/l 99
12) Methyl Acetate	2.76	43	132382	20.307	ug/l 100
13) Acrolein	2.28	56	62113	90.711	ug/l 98
14) Acrylonitrile	3.12	53	216009	96.839	ug/l 99
15) Acetone	2.43	58	69130	92.444	ug/l 86
16) Carbon Disulfide	2.56	76	167020	16.852	ug/l 98
17) Allyl chloride	2.72	41	123273	18.458	ug/l 92
18) Methylene Chloride	2.85	84	82585	19.554	ug/l 96
19) trans-1,2-Dichloroethene	3.15	96	72438	18.647	ug/l 97
20) Diisopropyl ether	3.84	45	263322	19.928	ug/l 94
21) 1,1-Dichloroethane	3.69	63	138567	19.303	ug/l 97
22) cis-1,2-Dichloroethene	4.59	96	86615	19.403	ug/l 97
23) tert-Butyl Alcohol	3.02	59	88456	95.888	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	245529	20.444	ug/l 99
25) Chloroform	5.20	83	141212	20.308	ug/l 98
26) Cyclohexane	5.57	56	113969	17.212	ug/l # 98
29) 1,1-Dichloropropene	5.79	75	94901	18.802	ug/l 99
30) 2-Butanone	4.65	43	314745	98.440	ug/l 99
31) 2,2-Dichloropropane	4.57	77	106415	19.704	ug/l 97
32) 1,1,1-Trichloroethane	5.48	97	110047	19.707	ug/l 99
33) Carbon Tetrachloride	5.77	117	94053	19.619	ug/l 96
34) Benzene	6.13	78	311769	19.989	ug/l 98
35) Methacrylonitrile	5.03	41	64137	20.085	ug/l 96
36) 1,2-Dichloroethane	6.18	62	116179	21.405	ug/l 98
37) Trichloroethene	7.20	130	85651	20.056	ug/l 99
38) Methylcyclohexane	7.46	83	114009	18.142	ug/l 98
39) 1,2-Dichloropropane	7.50	63	81238	20.030	ug/l 96
40) Dibromomethane	7.65	93	54530	20.921	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	107969	21.153	ug/l	98
42) Vinyl Acetate	3.80	43	989385	100.396	ug/l	99
43) Ethyl Acetate	4.81	43	117150	20.240	ug/l	95
44) Isopropyl Acetate	6.43	43	185835	19.903	ug/l	98
45) 1,4-Dioxane	7.73	88	38890	416.383	ug/l	99
46) Methyl methacrylate	7.76	41	90535	19.717	ug/l	99
47) n-amyl Acetate	10.89	43	152392	19.479	ug/l	99
48) t-1,3-Dichloropropene	9.03	75	115167	20.666	ug/l	95
49) cis-1,3-Dichloropropene	8.43	75	128327	20.437	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	82596	20.825	ug/l	99
51) Ethyl methacrylate	9.17	69	125123	20.261	ug/l	98
52) 1,3-Dichloropropane	9.36	76	140692	20.937	ug/l	100
53) Dibromochloromethane	9.57	129	85095	20.976	ug/l	99
54) 1,2-Dibromoethane	9.67	107	85760	20.849	ug/l	99
55) 2-Chloroethyl vinyl ether	8.30	63	265971	93.713	ug/l	99
56) Bromoform	10.85	173	64198	20.544	ug/l	97
58) 4-Methyl-2-Pentanone	8.63	43	595117	98.410	ug/l	99
59) 2-Hexanone	9.48	43	462693	98.931	ug/l	99
61) Tetrachloroethene	9.33	164	95759	20.175	ug/l	98
62) Toluene	8.78	91	335119	19.670	ug/l	100
64) Chlorobenzene	10.13	112	213206	20.046	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	81841	20.835	ug/l	100
66) Ethyl Benzene	10.24	91	353000	19.022	ug/l	98
67) m/p-Xylenes	10.35	106	282172	39.697	ug/l	99
68) o-Xylene	10.70	106	136532	19.725	ug/l	99
69) Styrene	10.71	104	230636	19.666	ug/l	100
70) Isopropylbenzene	11.01	105	348908	19.241	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	119869	19.624	ug/l	96
72) 1,2,3-Trichloropropane	11.29	75	105327m	20.159	ug/l	
73) Bromobenzene	11.25	156	95667	19.902	ug/l	99
74) n-propylbenzene	11.35	91	398301	19.222	ug/l	98
75) 2-Chlorotoluene	11.42	91	245013	19.730	ug/l	98
76) 1,3,5-Trimethylbenzene	11.50	105	296172	19.601	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	37443	18.620	ug/l	99
78) 4-Chlorotoluene	11.51	91	275738	19.551	ug/l	98
79) tert-butylbenzene	11.76	119	264435	18.703	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	299452	19.870	ug/l	99
81) sec-Butylbenzene	11.94	105	327717	18.732	ug/l	99
82) p-Isopropyltoluene	12.06	119	298262	18.675	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	167381	19.942	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	169199	20.333	ug/l	99
85) n-Butylbenzene	12.38	91	243447	17.421	ug/l	99
86) Hexachloroethane	12.59	117	53691	18.747	ug/l	96
87) 1,2-Dichlorobenzene	12.38	146	170190	20.096	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	26095	19.999	ug/l	98
89) 1,2,4-Trichlorobenzene	13.64	180	106645	19.078	ug/l	99
90) Hexachlorobutadiene	13.77	225	50101	17.937	ug/l	99
91) Naphthalene	13.83	128	319399	18.929	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	112058	19.694	ug/l	97

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

