

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120519\
 Data File : VX013769.D
 Acq On : 05 Dec 2019 12:07
 Operator : JC/SP
 Sample : VX1205WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1205WBS01

Manual Integrations
 APPROVED

apatel
 12/6/2019 9:36:02 AM

Quant Time: Dec 06 02:44:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 12 01:16:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	106642	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	604597	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	541530	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	226907	28.81	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.03%
60) 4-Bromofluorobenzene	11.14	95	257588	29.59	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.63%
63) Toluene-d8	8.71	98	725319	29.62	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.73%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	156100	19.536	ug/l 96
3) Chloromethane	1.32	50	161255	18.518	ug/l 97
4) Vinyl Chloride	1.40	62	191713	19.375	ug/l 98
5) Bromomethane	1.63	94	98853	16.618	ug/l 100
6) Chloroethane	1.72	64	102411	18.828	ug/l 96
7) Trichlorofluoromethane	1.92	101	211259	19.832	ug/l 100
8) Diethyl Ether	2.18	74	94509	19.431	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.37	101	128613	20.067	ug/l 99
10) 1,1-Dichloroethene	2.37	96	125264	19.019	ug/l 96
11) Methyl Iodide	2.50	142	126657	15.574	ug/l 97
12) Methyl Acetate	2.76	43	210005	18.197	ug/l 98
13) Acrolein	2.28	56	95076	77.556	ug/l 99
14) Acrylonitrile	3.13	53	366576	86.378	ug/l 98
15) Acetone	2.43	58	116313	90.493	ug/l 97
16) Carbon Disulfide	2.56	76	337201	18.356	ug/l 99
17) Allyl chloride	2.72	41	222512	18.346	ug/l 97
18) Methylene Chloride	2.85	84	146634	19.623	ug/l 99
19) trans-1,2-Dichloroethene	3.16	96	136263	19.359	ug/l 94
20) Diisopropyl ether	3.84	45	450633	19.312	ug/l 87
21) 1,1-Dichloroethane	3.69	63	242792	19.103	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	154643	19.270	ug/l 97
23) tert-Butyl Alcohol	3.03	59	157237	76.988	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	426365	19.560	ug/l 100
25) Chloroform	5.20	83	238792	19.195	ug/l 98
26) Cyclohexane	5.57	56	217227	18.821	ug/l # 98
29) 1,1-Dichloropropene	5.79	75	184006	19.926	ug/l 99
30) 2-Butanone	4.65	43	537019	88.104	ug/l 99
31) 2,2-Dichloropropane	4.57	77	199268	19.925	ug/l 100
32) 1,1,1-Trichloroethane	5.48	97	204084	19.883	ug/l 99
33) Carbon Tetrachloride	5.77	117	174509	19.574	ug/l 98
34) Benzene	6.13	78	559041	19.959	ug/l 99
35) Methacrylonitrile	5.03	41	112534	18.488	ug/l 98
36) 1,2-Dichloroethane	6.19	62	192892	19.674	ug/l 100
37) Trichloroethene	7.20	130	151234	20.154	ug/l 98
38) Methylcyclohexane	7.45	83	233649	20.635	ug/l 99
39) 1,2-Dichloropropane	7.51	63	143175	19.769	ug/l 98
40) Dibromomethane	7.65	93	93327	19.363	ug/l 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	182396	19.385	ug/l	98
42) Vinyl Acetate	3.80	43	1804172	94.015	ug/l	99
43) Ethyl Acetate	4.82	43	200528	18.038	ug/l	98
44) Isopropyl Acetate	6.43	43	328296	18.371	ug/l	99
45) 1,4-Dioxane	7.73	88	69373	351.623	ug/l	99
46) Methyl methacrylate	7.76	41	165099	18.573	ug/l	97
47) n-amyl Acetate	10.89	43	282663	18.033	ug/l	99
48) t-1,3-Dichloropropene	9.03	75	202607	19.203	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	224124	19.387	ug/l	96
50) 1,1,2-Trichloroethane	9.21	97	139045	19.495	ug/l	96
51) Ethyl methacrylate	9.17	69	223099	18.998	ug/l	98
52) 1,3-Dichloropropane	9.36	76	240920	19.759	ug/l	100
53) Dibromochloromethane	9.57	129	147349	19.493	ug/l	100
54) 1,2-Dibromoethane	9.67	107	149112	19.552	ug/l	99
55) 2-Chloroethyl vinyl ether	8.30	63	441120	87.913	ug/l	99
56) Bromoform	10.85	173	114325	19.004	ug/l	97
58) 4-Methyl-2-Pentanone	8.63	43	1035739	91.555	ug/l	99
59) 2-Hexanone	9.48	43	784738	87.671	ug/l	99
61) Tetrachloroethene	9.33	164	138670	20.766	ug/l	100
62) Toluene	8.78	91	599973	19.890	ug/l	99
64) Chlorobenzene	10.14	112	380699	20.185	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	139776	19.799	ug/l	98
66) Ethyl Benzene	10.25	91	664937	20.066	ug/l	100
67) m/p-Xylenes	10.36	106	512790	40.115	ug/l	100
68) o-Xylene	10.70	106	249336	20.211	ug/l	98
69) Styrene	10.71	104	408390	19.387	ug/l	98
70) Isopropylbenzene	11.01	105	657338	20.221	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	220350	18.931	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	176207m	17.929	ug/l	
73) Bromobenzene	11.25	156	171777	20.038	ug/l	96
74) n-propylbenzene	11.35	91	744740	20.160	ug/l	99
75) 2-Chlorotoluene	11.42	91	445997	20.302	ug/l	100
76) 1,3,5-Trimethylbenzene	11.50	105	551651	20.189	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	68970	17.356	ug/l	93
78) 4-Chlorotoluene	11.51	91	502407	19.961	ug/l	100
79) tert-butylbenzene	11.76	119	543442	19.713	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	546826	20.083	ug/l	100
81) sec-Butylbenzene	11.94	105	638469	20.299	ug/l	99
82) p-Isopropyltoluene	12.06	119	586397	20.234	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	296791	19.692	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	296111	19.793	ug/l	98
85) n-Butylbenzene	12.39	91	490474	19.610	ug/l	99
86) Hexachloroethane	12.59	117	102663	19.305	ug/l	100
87) 1,2-Dichlorobenzene	12.39	146	301272	19.990	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.99	75	45724	17.566	ug/l	97
89) 1,2,4-Trichlorobenzene	13.64	180	201952	19.435	ug/l	97
90) Hexachlorobutadiene	13.78	225	102168	20.518	ug/l	97
91) Naphthalene	13.83	128	602995	18.327	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	205876	19.605	ug/l	100

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

