

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050319\
 Data File : VX009304.D
 Acq On : 03 May 2019 11:57
 Operator : JC/SP
 Sample : VX0503WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0503WBS01

Manual Integrations
 APPROVED

MMDadoda
 5/6/2019 9:28:31 AM

Quant Time: May 04 03:24:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:46:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	31325	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	175092	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	154932	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	75076	28.89	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.30%
60) 4-Bromofluorobenzene	11.13	95	78597	29.85	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.50%
63) Toluene-d8	8.71	98	223148	30.38	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.27%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	31310	18.810	ug/l 98
3) Chloromethane	1.32	50	42851	19.153	ug/l 97
4) Vinyl Chloride	1.40	62	41689	18.678	ug/l 98
5) Bromomethane	1.64	94	23858	16.863	ug/l 99
6) Chloroethane	1.72	64	26891	18.371	ug/l 99
7) Trichlorofluoromethane	1.93	101	52363	18.999	ug/l 98
8) Diethyl Ether	2.18	74	24308	18.994	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.38	101	34213	20.050	ug/l 99
10) 1,1-Dichloroethene	2.37	96	32261	18.829	ug/l 91
11) Methyl Iodide	2.51	142	33367	17.914	ug/l 97
12) Methyl Acetate	2.77	43	58212	18.038	ug/l 98
13) Acrolein	2.29	56	33644	76.009	ug/l 98
14) Acrylonitrile	3.14	53	130097	92.890	ug/l 99
15) Acetone	2.44	58	36383	90.479	ug/l 97
16) Carbon Disulfide	2.57	76	85859	18.521	ug/l 100
17) Allyl chloride	2.73	41	75799	18.427	ug/l 98
18) Methylene Chloride	2.85	84	38847	18.760	ug/l 98
19) trans-1,2-Dichloroethene	3.17	96	35065	19.195	ug/l 99
20) Diisopropyl ether	3.85	45	153511	18.951	ug/l 90
21) 1,1-Dichloroethane	3.69	63	74621	19.035	ug/l 98
22) cis-1,2-Dichloroethene	4.59	96	40954	18.611	ug/l 99
23) tert-Butyl Alcohol	3.04	59	51333	86.680	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	125143	18.663	ug/l 100
25) Chloroform	5.21	83	68353	19.107	ug/l 95
26) Cyclohexane	5.57	56	69912	19.135	ug/l # 99
29) 1,1-Dichloropropene	5.80	75	50580	19.687	ug/l 98
30) 2-Butanone	4.67	43	194321	96.579	ug/l 100
31) 2,2-Dichloropropane	4.58	77	53911	19.034	ug/l 99
32) 1,1,1-Trichloroethane	5.49	97	55572	19.953	ug/l 97
33) Carbon Tetrachloride	5.78	117	46132	19.796	ug/l 98
34) Benzene	6.13	78	158784	20.047	ug/l 99
35) Methacrylonitrile	5.04	41	40176	19.085	ug/l 97
36) 1,2-Dichloroethane	6.18	62	56861	19.784	ug/l 100
37) Trichloroethene	7.21	130	37483	19.659	ug/l 98
38) Methylcyclohexane	7.46	83	64154	20.211	ug/l 99
39) 1,2-Dichloropropane	7.51	63	45623	20.227	ug/l 96
40) Dibromomethane	7.66	93	25647	20.034	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	51971	19.874	ug/l	99
42) Vinyl Acetate	3.81	43	661303	99.584	ug/l	100
43) Ethyl Acetate	4.83	43	68943	18.963	ug/l	96
44) Isopropyl Acetate	6.44	43	113568	19.282	ug/l	98
45) 1,4-Dioxane	7.74	88	22520	389.443	ug/l	98
46) Methyl methacrylate	7.77	41	55756	18.966	ug/l	98
47) n-amyl Acetate	10.90	43	98602	18.584	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	57566	18.867	ug/l	95
49) cis-1,3-Dichloropropene	8.43	75	63987	19.103	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	38694	19.728	ug/l	99
51) Ethyl methacrylate	9.18	69	69636	19.212	ug/l	96
52) 1,3-Dichloropropane	9.37	76	69396	19.936	ug/l	100
53) Dibromochloromethane	9.58	129	38283	19.599	ug/l	99
54) 1,2-Dibromoethane	9.67	107	39576	19.674	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	192344	99.588	ug/l	99
56) Bromoform	10.85	173	27646	18.437	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	371743	97.581	ug/l	100
59) 2-Hexanone	9.49	43	284855	95.332	ug/l	100
61) Tetrachloroethene	9.34	164	34568	20.239	ug/l	97
62) Toluene	8.78	91	165499	19.991	ug/l	100
64) Chlorobenzene	10.13	112	98441	19.757	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.22	131	35673	19.554	ug/l	99
66) Ethyl Benzene	10.25	91	182523	19.790	ug/l	98
67) m/p-Xylenes	10.35	106	135102	40.121	ug/l	98
68) o-Xylene	10.69	106	65880	19.897	ug/l	98
69) Styrene	10.71	104	113281	19.490	ug/l	99
70) Isopropylbenzene	11.02	105	176688	19.842	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	63309	19.413	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	55327m	19.687	ug/l	
73) Bromobenzene	11.26	156	42746	19.429	ug/l	99
74) n-propylbenzene	11.36	91	206335	19.996	ug/l	100
75) 2-Chlorotoluene	11.42	91	123166	19.900	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	149994	19.886	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	19706	17.384	ug/l	93
78) 4-Chlorotoluene	11.51	91	138938	19.765	ug/l	100
79) tert-butylbenzene	11.77	119	145304	19.927	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	151153	19.994	ug/l	99
81) sec-Butylbenzene	11.94	105	173042	19.974	ug/l	99
82) p-Isopropyltoluene	12.06	119	155601	19.745	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	76453	19.458	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	75603	19.314	ug/l	98
85) n-Butylbenzene	12.38	91	140167	19.438	ug/l	99
86) Hexachloroethane	12.59	117	25100	18.717	ug/l	94
87) 1,2-Dichlorobenzene	12.39	146	77166	19.510	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.00	75	13908	18.353	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	53677	19.041	ug/l	99
90) Hexachlorobutadiene	13.78	225	27653	19.638	ug/l	99
91) Naphthalene	13.83	128	178284	19.316	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	56884	19.851	ug/l	100

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

