

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050719\
 Data File : VX009371.D
 Acq On : 07 May 2019 12:01
 Operator : JC/SP
 Sample : VX0507WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0507WBS01

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 10:10:32 AM

Quant Time: May 08 02:18:38 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	30093	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	173793	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	155418	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	74724	29.93	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.77%
60) 4-Bromofluorobenzene	11.13	95	78025	29.54	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.47%
63) Toluene-d8	8.71	98	220567	29.93	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	29357	18.359	ug/l 96
3) Chloromethane	1.32	50	41165	19.152	ug/l 99
4) Vinyl Chloride	1.40	62	39783	18.554	ug/l 96
5) Bromomethane	1.64	94	24084	17.719	ug/l 96
6) Chloroethane	1.72	64	25827	18.367	ug/l 99
7) Trichlorofluoromethane	1.93	101	51690	19.523	ug/l 99
8) Diethyl Ether	2.18	74	24141	19.636	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.38	101	33359	20.350	ug/l 99
10) 1,1-Dichloroethene	2.37	96	31663	19.237	ug/l 99
11) Methyl Iodide	2.51	142	32070	17.923	ug/l 98
12) Methyl Acetate	2.77	43	59623	19.232	ug/l 98
13) Acrolein	2.29	56	36513	85.868	ug/l 99
14) Acrylonitrile	3.14	53	133079	98.909	ug/l 99
15) Acetone	2.44	58	37748	97.716	ug/l 99
16) Carbon Disulfide	2.57	76	80079	17.981	ug/l 99
17) Allyl chloride	2.73	41	75711	19.159	ug/l 98
18) Methylene Chloride	2.85	84	39631	19.922	ug/l 93
19) trans-1,2-Dichloroethene	3.16	96	33923	19.330	ug/l 96
20) Diisopropyl ether	3.85	45	152551	19.604	ug/l 92
21) 1,1-Dichloroethane	3.69	63	73987	19.646	ug/l 98
22) cis-1,2-Dichloroethene	4.59	96	41959	19.849	ug/l 100
23) tert-Butyl Alcohol	3.04	59	53548	94.122	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	126170	19.587	ug/l 98
25) Chloroform	5.20	83	68429	19.911	ug/l 96
26) Cyclohexane	5.57	56	66549	18.961	ug/l # 99
29) 1,1-Dichloropropene	5.79	75	50131	19.658	ug/l 99
30) 2-Butanone	4.67	43	198053	99.170	ug/l 100
31) 2,2-Dichloropropane	4.58	77	54181	19.272	ug/l 99
32) 1,1,1-Trichloroethane	5.49	97	55141	19.946	ug/l 97
33) Carbon Tetrachloride	5.78	117	45710	19.762	ug/l 99
34) Benzene	6.13	78	157845	20.077	ug/l 99
35) Methacrylonitrile	5.03	41	41315	19.773	ug/l 97
36) 1,2-Dichloroethane	6.19	62	57619	20.198	ug/l 99
37) Trichloroethene	7.21	130	38141	20.153	ug/l 97
38) Methylcyclohexane	7.46	83	62137	19.722	ug/l 99
39) 1,2-Dichloropropane	7.51	63	45041	20.118	ug/l 95
40) Dibromomethane	7.66	93	25594	20.142	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	52152	20.093	ug/l	93
42) Vinyl Acetate	3.81	43	657473	99.747	ug/l	100
43) Ethyl Acetate	4.82	43	72488	20.087	ug/l	98
44) Isopropyl Acetate	6.44	43	114362	19.562	ug/l	98
45) 1,4-Dioxane	7.74	88	22740	396.187	ug/l	100
46) Methyl methacrylate	7.77	41	56240	19.274	ug/l	100
47) n-amyl Acetate	10.90	43	100046	18.997	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	57830	19.095	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	64211	19.313	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	39597	20.339	ug/l	99
51) Ethyl methacrylate	9.18	69	70040	19.468	ug/l	98
52) 1,3-Dichloropropane	9.37	76	69942	20.243	ug/l	100
53) Dibromochloromethane	9.58	129	38447	19.830	ug/l	99
54) 1,2-Dibromoethane	9.67	107	39832	19.949	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	178838	93.287	ug/l	100
56) Bromoform	10.85	173	28490	19.142	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	379913	99.413	ug/l	99
59) 2-Hexanone	9.49	43	296477	98.911	ug/l	100
61) Tetrachloroethene	9.34	164	34832	20.330	ug/l	97
62) Toluene	8.78	91	166126	20.004	ug/l	99
64) Chlorobenzene	10.13	112	100306	20.069	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	35867	19.599	ug/l	98
66) Ethyl Benzene	10.25	91	184290	19.920	ug/l	100
67) m/p-Xylenes	10.35	106	134586	39.843	ug/l	99
68) o-Xylene	10.69	106	65977	19.864	ug/l	98
69) Styrene	10.71	104	115580	19.823	ug/l	99
70) Isopropylbenzene	11.02	105	180460	20.203	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	65878	20.138	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	57643m	20.447	ug/l	
73) Bromobenzene	11.26	156	43706	19.803	ug/l	99
74) n-propylbenzene	11.36	91	207209	20.018	ug/l	100
75) 2-Chlorotoluene	11.42	91	124594	20.068	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	152362	20.136	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	20642	18.153	ug/l	97
78) 4-Chlorotoluene	11.51	91	140456	19.918	ug/l	100
79) tert-butylbenzene	11.77	119	146517	20.031	ug/l	100
80) 1,2,4-Trimethylbenzene	11.80	105	150412	19.833	ug/l	100
81) sec-Butylbenzene	11.94	105	174547	20.085	ug/l	100
82) p-Isopropyltoluene	12.06	119	158667	20.071	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	77791	19.737	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	78080	19.884	ug/l	99
85) n-Butylbenzene	12.38	91	142628	19.717	ug/l	100
86) Hexachloroethane	12.59	117	26621	19.790	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	79584	20.059	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	15153	19.933	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	57159	20.213	ug/l	100
90) Hexachlorobutadiene	13.78	225	29348	20.777	ug/l	99
91) Naphthalene	13.83	128	185276	20.011	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	58820	20.462	ug/l	98

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

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