

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120719\
 Data File : VX0137839.D
 Acq On : 07 Dec 2019 14:22
 Operator : JC/SP
 Sample : VX1207WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Manual Integrations
 APPROVED

apatel
 12/9/2019 2:07:26 PM

Quant Time: Dec 09 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	5.00	128	103087	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	557712	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	509597	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	218518	28.71	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.70%
60) 4-Bromofluorobenzene	11.13	95	244586	29.86	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.53%
63) Toluene-d8	8.71	98	682697	29.63	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	147307	19.072	ug/l 98
3) Chloromethane	1.32	50	163607	19.436	ug/l 99
4) Vinyl Chloride	1.40	62	184180	19.256	ug/l 99
5) Bromomethane	1.63	94	108399	18.851	ug/l 98
6) Chloroethane	1.72	64	106324	20.222	ug/l 97
7) Trichlorofluoromethane	1.92	101	193932	18.833	ug/l 99
8) Diethyl Ether	2.18	74	100345	21.342	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.37	101	123338	19.908	ug/l 99
10) 1,1-Dichloroethene	2.37	96	120374	18.907	ug/l 97
11) Methyl Iodide	2.50	142	134339	17.089	ug/l 98
12) Methyl Acetate	2.76	43	225744	20.235	ug/l 99
13) Acrolein	2.28	56	108641	91.677	ug/l 97
14) Acrylonitrile	3.13	53	393054	95.811	ug/l 98
15) Acetone	2.43	58	129271	104.042	ug/l 96
16) Carbon Disulfide	2.56	76	316173	17.805	ug/l 100
17) Allyl chloride	2.72	41	222032	18.937	ug/l 97
18) Methylene Chloride	2.85	84	149163	20.650	ug/l 96
19) trans-1,2-Dichloroethene	3.15	96	132456	19.467	ug/l 99
20) Diisopropyl ether	3.84	45	465972	20.658	ug/l # 86
21) 1,1-Dichloroethane	3.69	63	249013	20.268	ug/l 98
22) cis-1,2-Dichloroethene	4.58	96	157957	20.362	ug/l 98
23) tert-Butyl Alcohol	3.03	59	176800	89.552	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	436135	20.698	ug/l 99
25) Chloroform	5.20	83	241685	20.097	ug/l 99
26) Cyclohexane	5.57	56	211413	18.949	ug/l # 98
29) 1,1-Dichloropropene	5.79	75	171893	20.179	ug/l 99
30) 2-Butanone	4.65	43	582409	103.583	ug/l 100
31) 2,2-Dichloropropane	4.58	77	193961	21.025	ug/l 100
32) 1,1,1-Trichloroethane	5.48	97	193946	20.484	ug/l 99
33) Carbon Tetrachloride	5.77	117	164339	19.983	ug/l 98
34) Benzene	6.13	78	563704	21.817	ug/l 99
35) Methacrylonitrile	5.03	41	119336	21.254	ug/l 97
36) 1,2-Dichloroethane	6.18	62	199582	22.068	ug/l 99
37) Trichloroethene	7.20	130	148030	21.385	ug/l 95
38) Methylcyclohexane	7.45	83	211477	20.247	ug/l 98
39) 1,2-Dichloropropane	7.50	63	143755	21.518	ug/l 98
40) Dibromomethane	7.65	93	97043	21.826	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	188657	21.736	ug/l	96
42) Vinyl Acetate	3.80	43	1911907	108.004	ug/l	100
43) Ethyl Acetate	4.81	43	213812	20.850	ug/l	98
44) Isopropyl Acetate	6.43	43	338982	20.564	ug/l	98
45) 1,4-Dioxane	7.73	88	71146	390.925	ug/l	98
46) Methyl methacrylate	7.76	41	169955	20.727	ug/l	98
47) n-amyl Acetate	10.89	43	298034	20.612	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	204469	21.009	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	229280	21.500	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	145649	22.138	ug/l	95
51) Ethyl methacrylate	9.17	69	233374	21.544	ug/l	98
52) 1,3-Dichloropropane	9.37	76	247374	21.994	ug/l	99
53) Dibromochloromethane	9.57	129	149112	21.384	ug/l	98
54) 1,2-Dibromoethane	9.67	107	155941	22.166	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	432487	93.439	ug/l	99
56) Bromoform	10.85	173	114767	20.682	ug/l	98
58) 4-Methyl-2-Pentanone	8.64	43	1092306	102.606	ug/l	99
59) 2-Hexanone	9.48	43	849666	100.873	ug/l	99
61) Tetrachloroethene	9.33	164	133330	21.218	ug/l	98
62) Toluene	8.78	91	606057	21.351	ug/l	99
64) Chlorobenzene	10.14	112	381597	21.501	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.21	131	139862	21.052	ug/l	99
66) Ethyl Benzene	10.25	91	658308	21.110	ug/l	100
67) m/p-Xylenes	10.35	106	501664	41.704	ug/l	97
68) o-Xylene	10.70	106	248259	21.385	ug/l	97
69) Styrene	10.71	104	425199	21.449	ug/l	100
70) Isopropylbenzene	11.01	105	643997	21.052	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	231784	21.162	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	186044m	20.117	ug/l	
73) Bromobenzene	11.25	156	171871	21.305	ug/l	98
74) n-propylbenzene	11.35	91	729243	20.977	ug/l	100
75) 2-Chlorotoluene	11.42	91	441996	21.381	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	543339	21.131	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	71125	19.020	ug/l	99
78) 4-Chlorotoluene	11.51	91	499076	21.071	ug/l	99
79) tert-butylbenzene	11.76	119	527901	20.349	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	544987	21.269	ug/l	100
81) sec-Butylbenzene	11.94	105	605485	20.456	ug/l	99
82) p-Isopropyltoluene	12.06	119	570073	20.904	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	302779	21.348	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	302201	21.466	ug/l	97
85) n-Butylbenzene	12.39	91	467609	19.867	ug/l	98
86) Hexachloroethane	12.59	117	97072	19.397	ug/l	99
87) 1,2-Dichlorobenzene	12.39	146	303894	21.428	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	48779	19.914	ug/l	95
89) 1,2,4-Trichlorobenzene	13.64	180	198741	20.324	ug/l	98
90) Hexachlorobutadiene	13.78	225	93776	20.013	ug/l	99
91) Naphthalene	13.83	128	603336	19.487	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	202527	20.494	ug/l	99

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

