

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101619\
 Data File : VX013097.D
 Acq On : 16 Oct 2019 15:51
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 4:52:17 PM

Quant Time: Oct 17 03:41:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X101619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 17 03:05:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	31447	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	168702	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	157550	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	70960	29.43	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.10%
60) 4-Bromofluorobenzene	11.13	95	82636	29.97	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.90%
63) Toluene-d8	8.71	98	211564	29.43	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	35906	16.936	ug/l 96
3) Chloromethane	1.32	50	38970	18.726	ug/l 100
4) Vinyl Chloride	1.40	62	36638	17.650	ug/l 95
5) Bromomethane	1.63	94	20413	21.042	ug/l 98
6) Chloroethane	1.72	64	23620	18.508	ug/l 97
7) Trichlorofluoromethane	1.92	101	52077	17.074	ug/l 99
8) Diethyl Ether	2.18	74	23025	20.512	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.37	101	32876	17.099	ug/l 98
10) 1,1-Dichloroethene	2.36	96	32907	17.397	ug/l 95
11) Methyl Iodide	2.50	142	37328	16.136	ug/l 99
12) Methyl Acetate	2.76	43	52584	19.880	ug/l 98
13) Acrolein	2.28	56	33659	88.434	ug/l 97
14) Acrylonitrile	3.12	53	109738	99.398	ug/l 99
15) Acetone	2.43	58	37899	96.967	ug/l 91
16) Carbon Disulfide	2.56	76	85818	16.777	ug/l 99
17) Allyl chloride	2.72	41	61050	19.020	ug/l 97
18) Methylene Chloride	2.84	84	42020	19.527	ug/l 97
19) trans-1,2-Dichloroethene	3.16	96	38786	19.151	ug/l 94
20) Diisopropyl ether	3.84	45	125039	20.304	ug/l 94
21) 1,1-Dichloroethane	3.68	63	69378	19.536	ug/l 98
22) cis-1,2-Dichloroethene	4.58	96	45682	19.626	ug/l 97
23) tert-Butyl Alcohol	3.03	59	52050	93.313	ug/l 100
24) Methyl tert-Butyl Ether	3.18	73	131023	20.324	ug/l 99
25) Chloroform	5.20	83	71190	19.386	ug/l 97
26) Cyclohexane	5.57	56	55070	17.065	ug/l # 98
29) 1,1-Dichloropropene	5.79	75	48983	19.035	ug/l 99
30) 2-Butanone	4.65	43	162172	106.993	ug/l 99
31) 2,2-Dichloropropane	4.56	77	56662	19.464	ug/l 98
32) 1,1,1-Trichloroethane	5.48	97	58502	19.434	ug/l 99
33) Carbon Tetrachloride	5.78	117	48324	18.711	ug/l 92
34) Benzene	6.13	78	158622	20.764	ug/l 98
35) Methacrylonitrile	5.02	41	32564	21.909	ug/l 96
36) 1,2-Dichloroethane	6.18	62	60211	21.799	ug/l 100
37) Trichloroethene	7.20	130	41009	20.093	ug/l 97
38) Methylcyclohexane	7.45	83	57504	18.258	ug/l 100
39) 1,2-Dichloropropane	7.50	63	40962	21.351	ug/l 98
40) Dibromomethane	7.65	93	28501	21.876	ug/l 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.89	83	52967	20.476	ug/l	99
42) Vinyl Acetate	3.80	43	542142	109.224	ug/l	100
43) Ethyl Acetate	4.81	43	58985	21.624	ug/l #	83
44) Isopropyl Acetate	6.43	43	96597	21.959	ug/l	99
45) 1,4-Dioxane	7.73	88	23366	432.200	ug/l	99
46) Methyl methacrylate	7.76	41	45638	21.227	ug/l	92
47) n-amyl Acetate	10.89	43	77104	20.587	ug/l	98
48) t-1,3-Dichloropropene	9.03	75	59259	20.698	ug/l	95
49) cis-1,3-Dichloropropene	8.43	75	64981	20.574	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	41382	21.046	ug/l	99
51) Ethyl methacrylate	9.17	69	65510	21.184	ug/l	99
52) 1,3-Dichloropropane	9.37	76	71167	21.566	ug/l	99
53) Dibromochloromethane	9.57	129	41244	20.426	ug/l	98
54) 1,2-Dibromoethane	9.67	107	44359	21.449	ug/l	98
55) 2-Chloroethyl vinyl ether	8.30	63	140666	103.393	ug/l	99
56) Bromoform	10.85	173	26918	19.157	ug/l	97
58) 4-Methyl-2-Pentanone	8.63	43	293515	102.387	ug/l	100
59) 2-Hexanone	9.48	43	227693	101.783	ug/l	99
61) Tetrachloroethene	9.33	164	38961	19.410	ug/l	92
62) Toluene	8.78	91	169762	19.827	ug/l	99
64) Chlorobenzene	10.14	112	108156	19.876	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	39303	19.665	ug/l	98
66) Ethyl Benzene	10.25	91	190140	19.457	ug/l	97
67) m/p-Xylenes	10.36	106	144967	39.430	ug/l	98
68) o-Xylene	10.69	106	70789	19.772	ug/l	100
69) Styrene	10.71	104	121203	19.665	ug/l	99
70) Isopropylbenzene	11.01	105	182117	19.045	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	62339	20.032	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	52414m	20.256	ug/l	
73) Bromobenzene	11.25	156	45611	19.999	ug/l	96
74) n-propylbenzene	11.35	91	204188	19.117	ug/l	99
75) 2-Chlorotoluene	11.42	91	125722	19.214	ug/l	98
76) 1,3,5-Trimethylbenzene	11.50	105	155306	19.087	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	18933	18.907	ug/l	97
78) 4-Chlorotoluene	11.51	91	143108	18.914	ug/l	98
79) tert-butylbenzene	11.76	119	138090	18.041	ug/l	97
80) 1,2,4-Trimethylbenzene	11.81	105	154733	19.068	ug/l	97
81) sec-Butylbenzene	11.94	105	161248	17.488	ug/l	100
82) p-Isopropyltoluene	12.06	119	152163	18.097	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	81324	19.673	ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	79861	19.208	ug/l	98
85) n-Butylbenzene	12.39	91	125175	17.442	ug/l	98
86) Hexachloroethane	12.59	117	24778	17.006	ug/l	91
87) 1,2-Dichlorobenzene	12.39	146	78916	19.356	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.99	75	13931	19.495	ug/l	95
89) 1,2,4-Trichlorobenzene	13.64	180	47614	18.718	ug/l	100
90) Hexachlorobutadiene	13.78	225	20971	17.369	ug/l	95
91) Naphthalene	13.83	128	161817	18.703	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	49138	19.285	ug/l	97

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

