

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX123019\
 Data File : VX014368.D
 Acq On : 30 Dec 2019 20:49
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

apatel
 12/31/2019 9:32:52 AM

Quant Time: Dec 31 03:56:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 13 01:35:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	83289	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	466743	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	426313	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	176170	29.53	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.43%
60) 4-Bromofluorobenzene	11.13	95	204291	29.68	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.93%
63) Toluene-d8	8.71	98	576653	30.26	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.87%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	79499	18.896	ug/l 97
3) Chloromethane	1.32	50	114437	19.299	ug/l 97
4) Vinyl Chloride	1.40	62	118701	19.527	ug/l 100
5) Bromomethane	1.64	94	63623	14.318	ug/l 96
6) Chloroethane	1.72	64	80552	21.453	ug/l 98
7) Trichlorofluoromethane	1.92	101	153223	20.256	ug/l 99
8) Diethyl Ether	2.18	74	71690	20.619	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	2.37	101	92780	20.566	ug/l 99
10) 1,1-Dichloroethene	2.37	96	93695	20.089	ug/l 98
11) Methyl Iodide	2.50	142	79319	13.211	ug/l 99
12) Methyl Acetate	2.76	43	158323	21.927	ug/l 98
13) Acrolein	2.28	56	92893	106.075	ug/l 98
14) Acrylonitrile	3.13	53	308245	109.205	ug/l 100
15) Acetone	2.43	58	89753	108.243	ug/l 80
16) Carbon Disulfide	2.56	76	258028	20.422	ug/l 98
17) Allyl chloride	2.72	41	176041	21.005	ug/l 97
18) Methylene Chloride	2.85	84	113972	19.943	ug/l 97
19) trans-1,2-Dichloroethene	3.15	96	104123	20.387	ug/l 97
20) Diisopropyl ether	3.84	45	359872	20.927	ug/l 98
21) 1,1-Dichloroethane	3.69	63	188323	20.178	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	117688	19.878	ug/l 97
23) tert-Butyl Alcohol	3.03	59	127970	115.589	ug/l 100
24) Methyl tert-Butyl Ether	3.19	73	319013	20.248	ug/l 100
25) Chloroform	5.20	83	183990	20.677	ug/l 97
26) Cyclohexane	5.58	56	170226	20.454	ug/l # 98
29) 1,1-Dichloropropene	5.79	75	139356	20.670	ug/l 99
30) 2-Butanone	4.65	43	431998	108.710	ug/l 100
31) 2,2-Dichloropropane	4.58	77	133164	21.353	ug/l 99
32) 1,1,1-Trichloroethane	5.48	97	150945	20.242	ug/l 99
33) Carbon Tetrachloride	5.78	117	127780	20.157	ug/l 98
34) Benzene	6.14	78	434536	20.670	ug/l 96
35) Methacrylonitrile	5.03	41	89995	21.057	ug/l 98
36) 1,2-Dichloroethane	6.18	62	149035	20.409	ug/l 99
37) Trichloroethene	7.21	130	115725	20.231	ug/l 96
38) Methylcyclohexane	7.46	83	167264	20.799	ug/l 99
39) 1,2-Dichloropropane	7.51	63	112112	20.533	ug/l 96
40) Dibromomethane	7.65	93	71979	20.636	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	138482	20.504	ug/l	99
42) Vinyl Acetate	3.80	43	1512548	107.808	ug/l	100
43) Ethyl Acetate	4.82	43	169980	22.292	ug/l	99
44) Isopropyl Acetate	6.43	43	265061	20.755	ug/l	99
45) 1,4-Dioxane	7.73	88	52872	442.089	ug/l	99
46) Methyl methacrylate	7.76	41	129944	20.947	ug/l	97
47) n-amyl Acetate	10.89	43	221286	19.487	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	147801	20.051	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	167654	20.224	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	112087	20.822	ug/l	98
51) Ethyl methacrylate	9.17	69	171626	20.044	ug/l	99
52) 1,3-Dichloropropane	9.37	76	187024	20.449	ug/l	99
53) Dibromochloromethane	9.57	129	107951	20.055	ug/l	99
54) 1,2-Dibromoethane	9.67	107	112753	20.344	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	370324	98.113	ug/l	99
56) Bromoform	10.85	173	81205	19.346	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	848453	106.369	ug/l	99
59) 2-Hexanone	9.48	43	642047	106.065	ug/l	99
61) Tetrachloroethene	9.33	164	115972	20.563	ug/l	99
62) Toluene	8.78	91	460836	20.325	ug/l	99
64) Chlorobenzene	10.14	112	284815	20.050	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	104028	19.777	ug/l	100
66) Ethyl Benzene	10.25	91	498301	20.082	ug/l	98
67) m/p-Xylenes	10.35	106	379460	40.005	ug/l	99
68) o-Xylene	10.70	106	184175	19.600	ug/l	100
69) Styrene	10.71	104	308884	19.330	ug/l	99
70) Isopropylbenzene	11.01	105	485845	20.008	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	169802	19.718	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	158966m	20.739	ug/l	
73) Bromobenzene	11.25	156	126393	19.498	ug/l	99
74) n-propylbenzene	11.35	91	550621	19.992	ug/l	100
75) 2-Chlorotoluene	11.42	91	330316	19.849	ug/l	98
76) 1,3,5-Trimethylbenzene	11.50	105	407480	19.781	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	49613	19.600	ug/l	95
78) 4-Chlorotoluene	11.51	91	370740	19.496	ug/l	98
79) tert-butylbenzene	11.76	119	382106	19.245	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	404198	19.624	ug/l	99
81) sec-Butylbenzene	11.94	105	466433	19.750	ug/l	100
82) p-Isopropyltoluene	12.06	119	419782	19.697	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	222610	19.703	ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	216607	19.253	ug/l	100
85) n-Butylbenzene	12.38	91	355978	19.866	ug/l	100
86) Hexachloroethane	12.59	117	72499	18.752	ug/l	96
87) 1,2-Dichlorobenzene	12.38	146	222714	19.407	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.99	75	35287	20.559	ug/l	99
89) 1,2,4-Trichlorobenzene	13.64	180	142096	19.373	ug/l	99
90) Hexachlorobutadiene	13.77	225	70131	20.116	ug/l	99
91) Naphthalene	13.83	128	448984	20.366	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	146616	19.708	ug/l	99

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

