

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX012420\
 Data File : VX014712.D
 Acq On : 24 Jan 2020 21:12
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda

1/27/2020 10:35:57 AM

Quant Time: Jan 24 23:54:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 15 12:41:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	73245	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	400091	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	362689	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	155666	30.24	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.80%
60) 4-Bromofluorobenzene	11.13	95	173264	29.85	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.50%
63) Toluene-d8	8.71	98	492040	30.03	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	99460	19.649	ug/l 100
3) Chloromethane	1.32	50	108549	19.587	ug/l 96
4) Vinyl Chloride	1.40	62	121948	19.597	ug/l 99
5) Bromomethane	1.64	94	77126	19.862	ug/l 97
6) Chloroethane	1.72	64	70157	20.000	ug/l 97
7) Trichlorofluoromethane	1.92	101	134642	19.541	ug/l 96
8) Diethyl Ether	2.18	74	61447	20.417	ug/l 93
9) 1,1,2-Trichlorotrifluoroet	2.38	101	78764	19.539	ug/l 98
10) 1,1-Dichloroethene	2.37	96	79742	19.667	ug/l 95
11) Methyl Iodide	2.50	142	107585	19.785	ug/l 97
12) Methyl Acetate	2.76	43	153922	21.014	ug/l 98
13) Acrolein	2.28	56	76218	99.066	ug/l 98
14) Acrylonitrile	3.13	53	251062	100.172	ug/l 99
15) Acetone	2.43	58	84098	100.090	ug/l 89
16) Carbon Disulfide	2.56	76	209608	18.823	ug/l 97
17) Allyl chloride	2.72	41	144071	19.199	ug/l 90
18) Methylene Chloride	2.85	84	95453	20.115	ug/l 99
19) trans-1,2-Dichloroethene	3.16	96	84003	19.245	ug/l 91
20) Diisopropyl ether	3.84	45	294931	19.865	ug/l 99
21) 1,1-Dichloroethane	3.69	63	161872	20.069	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	98726	19.683	ug/l 98
23) tert-Butyl Alcohol	3.03	59	103483	99.838	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	271469	20.118	ug/l 99
25) Chloroform	5.20	83	154555	19.782	ug/l 97
26) Cyclohexane	5.58	56	141471	19.016	ug/l 100
29) 1,1-Dichloropropene	5.79	75	113120	19.278	ug/l 99
30) 2-Butanone	4.65	43	368087	99.030	ug/l 100
31) 2,2-Dichloropropane	4.58	77	112953	17.991	ug/l 98
32) 1,1,1-Trichloroethane	5.48	97	131199	20.211	ug/l 99
33) Carbon Tetrachloride	5.78	117	108835	19.529	ug/l 97
34) Benzene	6.14	78	362008	19.966	ug/l 98
35) Methacrylonitrile	5.03	41	72874	19.631	ug/l 99
36) 1,2-Dichloroethane	6.18	62	128127	20.306	ug/l 99
37) Trichloroethene	7.21	130	104245	20.998	ug/l 96
38) Methylcyclohexane	7.46	83	136294	18.656	ug/l 100
39) 1,2-Dichloropropane	7.51	63	92586	19.637	ug/l 95
40) Dibromomethane	7.65	93	62264	20.548	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	117190	19.750	ug/l	99
42) Vinyl Acetate	3.81	43	862337	75.271	ug/l	98
43) Ethyl Acetate	4.82	43	129618	19.264	ug/l	99
44) Isopropyl Acetate	6.43	43	211109	19.449	ug/l	99
45) 1,4-Dioxane	7.73	88	46279	426.226	ug/l	98
46) Methyl methacrylate	7.76	41	103648	19.417	ug/l	96
47) n-amyl Acetate	10.89	43	182599	20.077	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	125358	19.350	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	141389	19.369	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	93348	20.246	ug/l	97
51) Ethyl methacrylate	9.17	69	137674	19.177	ug/l	98
52) 1,3-Dichloropropane	9.37	76	158714	20.317	ug/l	99
53) Dibromochloromethane	9.58	129	95160	20.177	ug/l	97
54) 1,2-Dibromoethane	9.67	107	96802	20.243	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	319751	96.912	ug/l	99
56) Bromoform	10.85	173	68353	18.816	ug/l	98
58) 4-Methyl-2-Pentanone	8.64	43	692895	101.448	ug/l	99
59) 2-Hexanone	9.48	43	535254	101.331	ug/l	99
61) Tetrachloroethene	9.33	164	142145	26.516	ug/l	96
62) Toluene	8.78	91	387474	20.136	ug/l	98
64) Chlorobenzene	10.14	112	243112	20.239	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.21	131	89439	20.160	ug/l	100
66) Ethyl Benzene	10.25	91	420692	20.072	ug/l	99
67) m/p-Xylenes	10.35	106	323490	40.294	ug/l	99
68) o-Xylene	10.70	106	156013	19.957	ug/l	100
69) Styrene	10.71	104	263090	19.862	ug/l	99
70) Isopropylbenzene	11.01	105	410730	20.055	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	125541	18.197	ug/l	97
72) 1,2,3-Trichloropropane	11.29	75	114269m	19.364	ug/l	
73) Bromobenzene	11.25	156	108488	19.983	ug/l	99
74) n-propylbenzene	11.35	91	465352	19.884	ug/l	99
75) 2-Chlorotoluene	11.42	91	279797	19.949	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	339802	19.911	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	40938	18.025	ug/l	94
78) 4-Chlorotoluene	11.51	91	316141	19.847	ug/l	99
79) tert-butylbenzene	11.76	119	287192	17.985	ug/l	92
80) 1,2,4-Trimethylbenzene	11.80	105	337853	19.849	ug/l	99
81) sec-Butylbenzene	11.94	105	389406	19.708	ug/l	100
82) p-Isopropyltoluene	12.06	119	350922	19.454	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	188444	19.879	ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	189472	20.160	ug/l	100
85) n-Butylbenzene	12.39	91	293407	18.590	ug/l	100
86) Hexachloroethane	12.59	117	62037	19.179	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	191118	19.981	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	28933	19.633	ug/l	99
89) 1,2,4-Trichlorobenzene	13.64	180	122773	19.446	ug/l	99
90) Hexachlorobutadiene	13.78	225	61220	19.406	ug/l	98
91) Naphthalene	13.83	128	374445	19.648	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	126743	19.723	ug/l	100

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

