

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112020\
 Data File : VX019486.D
 Acq On : 19 Nov 2020 23:10
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 11/20/2020 12:25:20 PM

Quant Time: Nov 20 03:12:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X112020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 20 01:06:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	46666	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	257098	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	240817	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	101508	30.27	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.90%
60) 4-Bromofluorobenzene	11.12	95	115671	29.45	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.17%
63) Toluene-d8	8.70	98	322771	30.07	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.23%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	49239	18.983	ug/l 100
3) Chloromethane	1.31	50	55082	19.099	ug/l 98
4) Vinyl Chloride	1.39	62	58940	18.544	ug/l 98
5) Bromomethane	1.62	94	23028	19.025	ug/l 95
6) Chloroethane	1.69	64	37907	41.946	ug/l 100
7) Trichlorofluoromethane	1.90	101	81626	18.024	ug/l 99
8) Diethyl Ether	2.17	74	33522	18.145	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.36	101	46623	18.181	ug/l 98
10) 1,1-Dichloroethene	2.35	96	45628	17.661	ug/l 96
11) Methyl Iodide	2.48	142	55739	17.032	ug/l 99
12) Methyl Acetate	2.75	43	56481	18.233	ug/l 96
13) Acrolein	2.28	56	43115	93.079	ug/l 99
14) Acrylonitrile	3.12	53	140174	92.771	ug/l 99
15) Acetone	2.42	58	38170	86.998	ug/l 98
16) Carbon Disulfide	2.54	76	116926	17.098	ug/l 99
17) Allyl chloride	2.70	41	68508	17.639	ug/l 98
18) Methylene Chloride	2.83	84	58061	18.581	ug/l 99
19) trans-1,2-Dichloroethene	3.14	96	52081	18.049	ug/l 96
20) Diisopropyl ether	3.82	45	152796	18.322	ug/l 95
21) 1,1-Dichloroethane	3.67	63	92582	18.244	ug/l 100
22) cis-1,2-Dichloroethene	4.56	96	60213	18.030	ug/l 97
23) tert-Butyl Alcohol	3.03	59	52885	81.497	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	162248	18.265	ug/l 99
25) Chloroform	5.17	83	97136	18.224	ug/l 95
26) Cyclohexane	5.54	56	78029	17.962	ug/l # 97
29) 1,1-Dichloropropene	5.76	75	70157	17.760	ug/l 98
30) 2-Butanone	4.64	43	175159	87.777	ug/l 100
31) 2,2-Dichloropropane	4.54	77	71057	16.004	ug/l 99
32) 1,1,1-Trichloroethane	5.46	97	82288	17.757	ug/l 99
33) Carbon Tetrachloride	5.75	117	68504	17.418	ug/l 100
34) Benzene	6.11	78	221156	18.019	ug/l 100
35) Methacrylonitrile	5.01	41	37154	18.054	ug/l 96
36) 1,2-Dichloroethane	6.16	62	77687	18.287	ug/l 100
37) Trichloroethene	7.18	130	57019	17.524	ug/l 99
38) Methylcyclohexane	7.44	83	81229	17.015	ug/l 99
39) 1,2-Dichloropropane	7.49	63	55525	18.322	ug/l 99
40) Dibromomethane	7.63	93	37144	17.621	ug/l 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	72915	17.601	ug/l	100
42) Vinyl Acetate	3.78	43	645674	89.955	ug/l	100
43) Ethyl Acetate	4.79	43	70566	18.372	ug/l	95
44) Isopropyl Acetate	6.41	43	111171	17.834	ug/l	100
45) 1,4-Dioxane	7.71	88	23841	341.194	ug/l	97
46) Methyl methacrylate	7.74	41	54713	17.933	ug/l	96
47) n-amyl Acetate	10.88	43	91149	17.522	ug/l	100
48) t-1,3-Dichloropropene	9.02	75	76743	17.061	ug/l	99
49) cis-1,3-Dichloropropene	8.42	75	86566	17.421	ug/l	99
50) 1,1,2-Trichloroethane	9.20	97	57448	18.198	ug/l	96
51) Ethyl methacrylate	9.16	69	80753	17.875	ug/l	96
52) 1,3-Dichloropropane	9.35	76	96621	18.326	ug/l	98
53) Dibromochloromethane	9.56	129	55312	17.579	ug/l	100
54) 1,2-Dibromoethane	9.65	107	60216	18.449	ug/l	100
55) 2-Chloroethyl vinyl ether	8.29	63	228111	91.762	ug/l	99
56) Bromoform	10.84	173	37545	16.838	ug/l	100
58) 4-Methyl-2-Pentanone	8.62	43	350296	91.052	ug/l	100
59) 2-Hexanone	9.48	43	259822	87.562	ug/l	100
61) Tetrachloroethene	9.32	164	58110	18.517	ug/l	98
62) Toluene	8.76	91	241389	17.921	ug/l	99
64) Chlorobenzene	10.12	112	150452	18.339	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.20	131	53796	17.812	ug/l	99
66) Ethyl Benzene	10.23	91	262919	17.814	ug/l	97
67) m/p-Xylenes	10.34	106	198744	35.955	ug/l	99
68) o-Xylene	10.68	106	95899	18.303	ug/l	97
69) Styrene	10.70	104	159551	17.873	ug/l	99
70) Isopropylbenzene	11.00	105	254984	17.952	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.25	83	85802	17.694	ug/l	99
72) 1,2,3-Trichloropropane	11.28	75	78730m	18.060	ug/l	
73) Bromobenzene	11.24	156	62399	17.614	ug/l	99
74) n-propylbenzene	11.34	91	291249	17.635	ug/l	99
75) 2-Chlorotoluene	11.40	91	178187	17.994	ug/l	100
76) 1,3,5-Trimethylbenzene	11.49	105	213168	17.712	ug/l	99
77) t-1,4-Dichloro-2-butene	11.05	75	22914	15.337	ug/l	92
78) 4-Chlorotoluene	11.49	91	203365	17.570	ug/l	100
79) tert-butylbenzene	11.76	119	198711	17.214	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	214556	17.740	ug/l	98
81) sec-Butylbenzene	11.93	105	241472	17.426	ug/l	100
82) p-Isopropyltoluene	12.05	119	217350	17.248	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	110813	16.957	ug/l	96
84) 1,4-Dichlorobenzene	12.08	146	112267	16.978	ug/l	98
85) n-Butylbenzene	12.37	91	186820	16.247	ug/l	99
86) Hexachloroethane	12.58	117	34693	16.357	ug/l	97
87) 1,2-Dichlorobenzene	12.37	146	110402	17.087	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	12.98	75	16213	15.907	ug/l	98
89) 1,2,4-Trichlorobenzene	13.63	180	70190	16.276	ug/l	98
90) Hexachlorobutadiene	13.76	225	30672	15.823	ug/l	95
91) Naphthalene	13.82	128	225591	16.445	ug/l	99
92) 1,2,3-Trichlorobenzene	14.00	180	71000	16.468	ug/l	99

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

