

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102320\
 Data File : VX019069.D
 Acq On : 23 Oct 2020 10:16
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 10/26/2020 11:17:24 AM

Quant Time: Oct 23 11:54:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102320W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 23 11:41:37 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	44980	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	254932	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	226671	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	92638	31.88	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	106.27%
60) 4-Bromofluorobenzene	11.12	95	100297	28.73	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.77%
63) Toluene-d8	8.70	98	303169	30.30	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	38881	18.207	ug/l 100
3) Chloromethane	1.31	50	35989	15.686	ug/l 100
4) Vinyl Chloride	1.39	62	46874	16.241	ug/l 100
5) Bromomethane	1.64	94	40785	22.659	ug/l 100
6) Chloroethane	1.72	64	31229	15.692	ug/l 100
7) Trichlorofluoromethane	1.92	101	78623	17.094	ug/l 100
8) Diethyl Ether	2.17	74	30148	16.712	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.37	101	38262	15.329	ug/l 100
10) 1,1-Dichloroethene	2.36	96	38592	14.891	ug/l 100
11) Methyl Iodide	2.49	142	26908	9.193	ug/l 100
12) Methyl Acetate	2.75	43	38398	15.051	ug/l 100
13) Acrolein	2.28	56	13627	30.318	ug/l 100
14) Acrylonitrile	3.12	53	89269	75.363	ug/l 100
15) Acetone	2.42	58	23806	63.142	ug/l 100
16) Carbon Disulfide	2.55	76	107570	16.604	ug/l 100
17) Allyl chloride	2.71	41	47409	14.207	ug/l 100
18) Methylene Chloride	2.84	84	44257	16.634	ug/l 100
19) trans-1,2-Dichloroethene	3.14	96	45251	16.913	ug/l 100
20) Diisopropyl ether	3.82	45	96795	15.421	ug/l 100
21) 1,1-Dichloroethane	3.67	63	72027	16.578	ug/l 100
22) cis-1,2-Dichloroethene	4.57	96	52154	17.146	ug/l 100
23) tert-Butyl Alcohol	3.01	59	42779	66.765	ug/l 100
24) Methyl tert-Butyl Ether	3.17	73	121443	16.676	ug/l 100
25) Chloroform	5.18	83	79142	17.060	ug/l 100
26) Cyclohexane	5.55	56	55201	15.917	ug/l # 100
29) 1,1-Dichloropropene	5.77	75	59932	16.529	ug/l 100
30) 2-Butanone	4.64	43	117513	67.317	ug/l 100
31) 2,2-Dichloropropane	4.55	77	69061	16.231	ug/l 100
32) 1,1,1-Trichloroethane	5.46	97	72276	16.422	ug/l 100
33) Carbon Tetrachloride	5.76	117	61076	15.325	ug/l 100
34) Benzene	6.11	78	176607	16.440	ug/l 100
35) Methacrylonitrile	5.01	41	26940	14.720	ug/l 100
36) 1,2-Dichloroethane	6.16	62	60922	17.136	ug/l 100
37) Trichloroethene	7.18	130	49832	15.913	ug/l 100
38) Methylcyclohexane	7.44	83	66634	16.172	ug/l 100
39) 1,2-Dichloropropane	7.49	63	40050	15.411	ug/l 100
40) Dibromomethane	7.63	93	31335	16.280	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	60966	15.666	ug/l	100
42) Vinyl Acetate	3.78	43	468931	73.822	ug/l	100
43) Ethyl Acetate	4.79	43	49464	13.578	ug/l	100
44) Isopropyl Acetate	6.41	43	82195	14.040	ug/l	100
45) 1,4-Dioxane	7.73	88	18114	291.896	ug/l	100
46) Methyl methacrylate	7.74	41	40188	14.713	ug/l	100
47) n-amyl Acetate	10.88	43	65551	13.641	ug/l	100
48) t-1,3-Dichloropropene	9.02	75	68073	15.405	ug/l	100
49) cis-1,3-Dichloropropene	8.42	75	73047	15.539	ug/l	100
50) 1,1,2-Trichloroethane	9.20	97	44841	16.345	ug/l	100
51) Ethyl methacrylate	9.16	69	64995	15.184	ug/l	100
52) 1,3-Dichloropropane	9.35	76	74398	16.388	ug/l	100
53) Dibromochloromethane	9.57	129	47364	14.800	ug/l	100
54) 1,2-Dibromoethane	9.65	107	48975	16.238	ug/l	100
55) 2-Chloroethyl vinyl ether	8.29	63	200486	86.651	ug/l	100
56) Bromoform	10.84	173	32390	13.231	ug/l	100
58) 4-Methyl-2-Pentanone	8.62	43	245346	70.525	ug/l	100
59) 2-Hexanone	9.47	43	185476	69.991	ug/l	100
61) Tetrachloroethene	9.32	164	45635	16.596	ug/l	100
62) Toluene	8.76	91	199184	16.606	ug/l	100
64) Chlorobenzene	10.12	112	121433	16.107	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.20	131	43787	15.107	ug/l	100
66) Ethyl Benzene	10.23	91	216962	16.456	ug/l	100
67) m/p-Xylenes	10.34	106	164054	31.875	ug/l	100
68) o-Xylene	10.68	106	76826	15.816	ug/l	100
69) Styrene	10.70	104	127773	15.363	ug/l	100
70) Isopropylbenzene	11.00	105	206952	16.033	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.25	83	61252	15.241	ug/l	100
72) 1,2,3-Trichloropropane	11.28	75	56935m	15.250	ug/l	100
73) Bromobenzene	11.24	156	50531	15.321	ug/l	100
74) n-propylbenzene	11.34	91	237996	16.166	ug/l	100
75) 2-Chlorotoluene	11.40	91	133204	15.726	ug/l	100
76) 1,3,5-Trimethylbenzene	11.49	105	167069	15.531	ug/l	100
77) t-1,4-Dichloro-2-butene	11.05	75	20958	13.264	ug/l	100
78) 4-Chlorotoluene	11.49	91	156531	15.675	ug/l	100
79) tert-butylbenzene	11.76	119	165167	15.209	ug/l	100
80) 1,2,4-Trimethylbenzene	11.79	105	168826	15.698	ug/l	100
81) sec-Butylbenzene	11.93	105	196853	15.702	ug/l	100
82) p-Isopropyltoluene	12.05	119	179003	15.387	ug/l	100
83) 1,3-Dichlorobenzene	12.01	146	90250	15.282	ug/l	100
84) 1,4-Dichlorobenzene	12.08	146	91209	15.315	ug/l	100
85) n-Butylbenzene	12.37	91	159765	15.291	ug/l	100
86) Hexachloroethane	12.58	117	25976	13.443	ug/l	100
87) 1,2-Dichlorobenzene	12.38	146	86517	15.166	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.98	75	13392	13.940	ug/l	100
89) 1,2,4-Trichlorobenzene	13.63	180	60675	14.552	ug/l	100
90) Hexachlorobutadiene	13.76	225	25475	14.641	ug/l	100
91) Naphthalene	13.82	128	199070	14.684	ug/l	100
92) 1,2,3-Trichlorobenzene	14.00	180	58653	14.482	ug/l	100

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

