

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102320\
 Data File : VX019071.D
 Acq On : 23 Oct 2020 11:00
 Operator : JC/SP
 Sample : VSTDIC100
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC100

Manual Integrations
 APPROVED

MMDadoda
 10/26/2020 11:17:13 AM

Quant Time: Oct 23 11:50:59 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	48283	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	260584	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	245178	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	92282	29.59	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.63%
60) 4-Bromofluorobenzene	11.12	95	110305	29.21	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	97.37%
63) Toluene-d8	8.70	98	316035	29.20	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.33%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	264184	115.251	ug/l 100
3) Chloromethane	1.31	50	238066	96.666	ug/l 99
4) Vinyl Chloride	1.39	62	307733	99.333	ug/l 99
5) Bromomethane	1.64	94	216214	111.905	ug/l 97
6) Chloroethane	1.71	64	214805	100.551	ug/l 99
7) Trichlorofluoromethane	1.92	101	540428	109.460	ug/l 96
8) Diethyl Ether	2.17	74	207048	106.919	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	259100	96.703	ug/l 99
10) 1,1-Dichloroethene	2.35	96	267191	96.045	ug/l 96
11) Methyl Iodide	2.49	142	312772	99.544	ug/l 93
12) Methyl Acetate	2.75	43	273063	99.712	ug/l 96
13) Acrolein	2.28	56	125691	260.513	ug/l 98
14) Acrylonitrile	3.12	53	640886	504.040	ug/l 99
15) Acetone	2.42	58	188864	466.663	ug/l 96
16) Carbon Disulfide	2.55	76	739664	106.362	ug/l 99
17) Allyl chloride	2.71	41	337593	94.245	ug/l 99
18) Methylene Chloride	2.84	84	307994	107.843	ug/l 97
19) trans-1,2-Dichloroethene	3.14	96	313018	108.991	ug/l 99
20) Diisopropyl ether	3.82	45	679718	100.884	ug/l 99
21) 1,1-Dichloroethane	3.67	63	494814	106.096	ug/l 99
22) cis-1,2-Dichloroethene	4.56	96	363075	111.198	ug/l 100
23) tert-Butyl Alcohol	3.03	59	309431	449.894	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	856111	109.518	ug/l 98
25) Chloroform	5.18	83	556741	111.800	ug/l 95
26) Cyclohexane	5.55	56	384262	103.218	ug/l # 100
29) 1,1-Dichloropropene	5.77	75	419709	113.246	ug/l 100
30) 2-Butanone	4.63	43	876364	491.131	ug/l 100
31) 2,2-Dichloropropane	4.55	77	476683	109.604	ug/l 100
32) 1,1,1-Trichloroethane	5.46	97	507379	112.781	ug/l 99
33) Carbon Tetrachloride	5.76	117	449533	110.351	ug/l 97
34) Benzene	6.12	78	1246636	113.533	ug/l 98
35) Methacrylonitrile	5.00	41	186836	99.874	ug/l 95
36) 1,2-Dichloroethane	6.17	62	419142	115.335	ug/l 100
37) Trichloroethene	7.19	130	360394	112.590	ug/l 99
38) Methylcyclohexane	7.44	83	471227	111.887	ug/l 99
39) 1,2-Dichloropropane	7.49	63	292478	110.105	ug/l 98
40) Dibromomethane	7.63	93	228119	115.946	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.88	83	459817	115.593	ug/l	99
42) Vinyl Acetate	3.79	43	3301799	508.515	ug/l	98
43) Ethyl Acetate	4.79	43	355906	95.576	ug/l	98
44) Isopropyl Acetate	6.41	43	604432	101.003	ug/l	100
45) 1,4-Dioxane	7.73	88	124650	1965.094	ug/l	99
46) Methyl methacrylate	7.74	41	288070	103.174	ug/l	99
47) n-amyl Acetate	10.88	43	486043	98.953	ug/l	99
48) t-1,3-Dichloropropene	9.02	75	515581	114.143	ug/l	99
49) cis-1,3-Dichloropropene	8.41	75	543087	113.022	ug/l	100
50) 1,1,2-Trichloroethane	9.20	97	337639	120.404	ug/l	99
51) Ethyl methacrylate	9.16	69	493705	112.840	ug/l	98
52) 1,3-Dichloropropane	9.35	76	538775	116.102	ug/l	100
53) Dibromochloromethane	9.57	129	388125	118.647	ug/l	99
54) 1,2-Dibromoethane	9.65	107	364758	118.316	ug/l	99
55) 2-Chloroethyl vinyl ether	8.29	63	1356891	573.736	ug/l	99
56) Bromoform	10.84	173	278159	111.162	ug/l	99
58) 4-Methyl-2-Pentanone	8.62	43	1745327	463.829	ug/l	99
59) 2-Hexanone	9.48	43	1280029	446.571	ug/l	99
61) Tetrachloroethene	9.32	164	324543	109.115	ug/l	94
62) Toluene	8.77	91	1436054	110.688	ug/l	100
64) Chlorobenzene	10.12	112	917996	112.572	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	340869	108.725	ug/l	100
66) Ethyl Benzene	10.24	91	1608595	112.797	ug/l	97
67) m/p-Xylenes	10.34	106	1235820	221.989	ug/l	100
68) o-Xylene	10.68	106	592485	112.766	ug/l	98
69) Styrene	10.69	104	1016130	112.956	ug/l	99
70) Isopropylbenzene	11.00	105	1607192	115.117	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.25	83	453305	104.280	ug/l	100
72) 1,2,3-Trichloropropane	11.28	75	396330m	98.142	ug/l	
73) Bromobenzene	11.24	156	392363	109.981	ug/l	97
74) n-propylbenzene	11.35	91	1783364	111.989	ug/l	98
75) 2-Chlorotoluene	11.40	91	1002203	109.388	ug/l	98
76) 1,3,5-Trimethylbenzene	11.49	105	1285754	110.505	ug/l	99
77) t-1,4-Dichloro-2-butene	11.06	75	168374	98.519	ug/l	95
78) 4-Chlorotoluene	11.49	91	1175328	108.815	ug/l	97
79) tert-butylbenzene	11.76	119	1274529	108.506	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	1263704	108.636	ug/l	98
81) sec-Butylbenzene	11.93	105	1491656	109.999	ug/l	99
82) p-Isopropyltoluene	12.05	119	1377155	109.445	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	681645	106.710	ug/l	100
84) 1,4-Dichlorobenzene	12.08	146	696723	108.156	ug/l	100
85) n-Butylbenzene	12.37	91	1240733	109.786	ug/l	99
86) Hexachloroethane	12.58	117	217719	104.170	ug/l	98
87) 1,2-Dichlorobenzene	12.38	146	646226	104.730	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	107012	102.980	ug/l	96
89) 1,2,4-Trichlorobenzene	13.63	180	502265	111.367	ug/l	96
90) Hexachlorobutadiene	13.76	225	204879	108.858	ug/l	96
91) Naphthalene	13.82	128	1609945	109.793	ug/l	100
92) 1,2,3-Trichlorobenzene	14.00	180	468993	107.057	ug/l	100

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

