

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070920\
 Data File : VX017300.D
 Acq On : 09 Jul 2020 11:15
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 7/10/2020 12:36:35 PM

Quant Time: Jul 09 11:45:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X070920W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 09 11:39:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	54240	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	274113	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	262654	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	114724	27.62	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	92.07%
60) 4-Bromofluorobenzene	11.12	95	135022	30.57	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.90%
63) Toluene-d8	8.70	98	335566	29.06	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.87%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	122391	46.439	ug/l 97
3) Chloromethane	1.32	50	124535	37.232	ug/l 94
4) Vinyl Chloride	1.39	62	131004	38.338	ug/l 98
5) Bromomethane	1.63	94	87840	36.061	ug/l 96
6) Chloroethane	1.71	64	85769	38.577	ug/l 99
7) Trichlorofluoromethane	1.92	101	238782	41.856	ug/l 98
8) Diethyl Ether	2.17	74	79489	38.725	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.37	101	130650	43.072	ug/l 99
10) 1,1-Dichloroethene	2.36	96	125571	42.356	ug/l 94
11) Methyl Iodide	2.49	142	159396	40.633	ug/l 97
12) Methyl Acetate	2.75	43	174952	45.786	ug/l 100
13) Acrolein	2.27	56	112887	190.959	ug/l 99
14) Acrylonitrile	3.12	53	390705	218.841	ug/l 100
15) Acetone	2.42	58	99250	216.584	ug/l 98
16) Carbon Disulfide	2.55	76	348669	37.829	ug/l 98
17) Allyl chloride	2.71	41	230406	41.855	ug/l 96
18) Methylene Chloride	2.84	84	147970	41.173	ug/l 98
19) trans-1,2-Dichloroethene	3.14	96	145064	42.509	ug/l 92
20) Diisopropyl ether	3.82	45	461598	41.401	ug/l 99
21) 1,1-Dichloroethane	3.67	63	258345	42.070	ug/l 99
22) cis-1,2-Dichloroethene	4.56	96	162198	42.914	ug/l 98
23) tert-Butyl Alcohol	3.01	59	161862	207.514	ug/l # 99
24) Methyl tert-Butyl Ether	3.17	73	476475	44.517	ug/l 100
25) Chloroform	5.18	83	276630	44.029	ug/l 93
26) Cyclohexane	5.55	56	213248	40.302	ug/l # 100
29) 1,1-Dichloropropene	5.77	75	198092	45.783	ug/l 99
30) 2-Butanone	4.64	43	533261	236.075	ug/l 99
31) 2,2-Dichloropropane	4.55	77	242159	48.346	ug/l 98
32) 1,1,1-Trichloroethane	5.47	97	255036	48.181	ug/l 98
33) Carbon Tetrachloride	5.76	117	235135	49.757	ug/l 95
34) Benzene	6.11	78	575328	45.741	ug/l 98
35) Methacrylonitrile	5.01	41	118913	47.733	ug/l 99
36) 1,2-Dichloroethane	6.17	62	223203	46.051	ug/l 100
37) Trichloroethene	7.19	130	172090	49.337	ug/l 97
38) Methylcyclohexane	7.44	83	216738	44.325	ug/l 99
39) 1,2-Dichloropropane	7.49	63	149067	45.398	ug/l 92
40) Dibromomethane	7.63	93	106616	46.938	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	223925	47.585	ug/l	98
42) Vinyl Acetate	3.79	43	2049226	226.968	ug/l	100
43) Ethyl Acetate	4.79	43	212783	45.738	ug/l	99
44) Isopropyl Acetate	6.42	43	344705	44.997	ug/l	98
45) 1,4-Dioxane	7.71	88	65715	869.756	ug/l	96
46) Methyl methacrylate	7.74	41	171033	47.892	ug/l	97
47) n-amyl Acetate	10.88	43	310808	45.939	ug/l	98
48) t-1,3-Dichloropropene	9.02	75	245483	47.079	ug/l	98
49) cis-1,3-Dichloropropene	8.42	75	259509	47.440	ug/l	97
50) 1,1,2-Trichloroethane	9.20	97	158480	49.313	ug/l	98
51) Ethyl methacrylate	9.16	69	235848	48.576	ug/l	97
52) 1,3-Dichloropropane	9.35	76	257839	47.509	ug/l	99
53) Dibromochloromethane	9.57	129	191570	51.377	ug/l	97
54) 1,2-Dibromoethane	9.65	107	169426	49.701	ug/l	98
55) 2-Chloroethyl vinyl ether	8.29	63	638904	249.795	ug/l	100
56) Bromoform	10.84	173	150294	55.898	ug/l	99
58) 4-Methyl-2-Pentanone	8.62	43	1075164	229.075	ug/l	99
59) 2-Hexanone	9.47	43	816314	232.558	ug/l	98
61) Tetrachloroethene	9.32	164	170176	50.610	ug/l	98
62) Toluene	8.76	91	639045	45.800	ug/l	99
64) Chlorobenzene	10.12	112	425129	48.138	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.20	131	169387	50.507	ug/l	98
66) Ethyl Benzene	10.23	91	722180	46.643	ug/l	99
67) m/p-Xylenes	10.34	106	562940	95.615	ug/l	98
68) o-Xylene	10.68	106	268547	47.957	ug/l	97
69) Styrene	10.70	104	476946	49.153	ug/l	98
70) Isopropylbenzene	11.00	105	734687	47.861	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.25	83	225110	47.581	ug/l	98
72) 1,2,3-Trichloropropane	11.28	75	223433m	49.130	ug/l	
73) Bromobenzene	11.24	156	197453	50.258	ug/l	99
74) n-propylbenzene	11.34	91	852072	47.048	ug/l	99
75) 2-Chlorotoluene	11.40	91	510627	47.769	ug/l	99
76) 1,3,5-Trimethylbenzene	11.49	105	630171	48.728	ug/l	100
77) t-1,4-Dichloro-2-butene	11.05	75	85942	46.969	ug/l	96
78) 4-Chlorotoluene	11.49	91	609210	48.227	ug/l	100
79) tert-butylbenzene	11.76	119	621663	50.269	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	643673	49.609	ug/l	99
81) sec-Butylbenzene	11.93	105	703559	47.259	ug/l	100
82) p-Isopropyltoluene	12.05	119	674823	49.834	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	359929	50.994	ug/l	99
84) 1,4-Dichlorobenzene	12.08	146	368305	51.952	ug/l	99
85) n-Butylbenzene	12.37	91	572395	46.332	ug/l	100
86) Hexachloroethane	12.58	117	128869	48.925	ug/l	99
87) 1,2-Dichlorobenzene	12.38	146	346309	52.293	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	54815	50.602	ug/l	97
89) 1,2,4-Trichlorobenzene	13.63	180	230030	51.372	ug/l	100
90) Hexachlorobutadiene	13.76	225	93562	53.884	ug/l	98
91) Naphthalene	13.82	128	743354	51.540	ug/l	100
92) 1,2,3-Trichlorobenzene	14.00	180	233627	53.165	ug/l	99

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

