

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031220\
 Data File : VX015229.D
 Acq On : 12 Mar 2020 11:53
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 3/16/2020 11:43:31 AM

Quant Time: Mar 12 14:12:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X031220W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 12 13:54:34 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	52169	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	272394	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	242864	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	102164	28.16	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	93.87%
60) 4-Bromofluorobenzene	11.13	95	113511	30.01	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.03%
63) Toluene-d8	8.71	98	318823	30.10	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.33%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	14434	6.196	ug/l 97
3) Chloromethane	1.32	50	20305	6.741	ug/l 96
4) Vinyl Chloride	1.40	62	20099	6.200	ug/l 94
5) Bromomethane	1.64	94	14041	6.185	ug/l 99
6) Chloroethane	1.72	64	13036	6.003	ug/l 90
7) Trichlorofluoromethane	1.93	101	25638	5.434	ug/l 96
8) Diethyl Ether	2.18	74	11617	5.853	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	2.38	101	16945	6.212	ug/l 98
10) 1,1-Dichloroethene	2.37	96	16265	5.931	ug/l 96
11) Methyl Iodide	2.51	142	11166	3.351	ug/l 95
12) Methyl Acetate	2.77	43	18763	5.498	ug/l 94
13) Acrolein	2.29	56	18061	26.611	ug/l 99
14) Acrylonitrile	3.14	53	44499	28.873	ug/l 97
15) Acetone	2.44	58	14107	25.577	ug/l 99
16) Carbon Disulfide	2.56	76	44435	6.026	ug/l 98
17) Allyl chloride	2.72	41	28268	5.926	ug/l 98
18) Methylene Chloride	2.85	84	18580	5.880	ug/l 96
19) trans-1,2-Dichloroethene	3.16	96	17221	5.717	ug/l 91
20) Diisopropyl ether	3.84	45	58479	6.002	ug/l # 84
21) 1,1-Dichloroethane	3.69	63	31531	5.904	ug/l 96
22) cis-1,2-Dichloroethene	4.59	96	20217	5.865	ug/l 97
23) tert-Butyl Alcohol	3.03	59	18288	29.935	ug/l # 99
24) Methyl tert-Butyl Ether	3.19	73	50470	5.531	ug/l 99
25) Chloroform	5.21	83	29888	5.549	ug/l 98
26) Cyclohexane	5.58	56	29234	6.125	ug/l # 97
29) 1,1-Dichloropropene	5.79	75	24163	6.271	ug/l 97
30) 2-Butanone	4.67	43	61383	27.602	ug/l 99
31) 2,2-Dichloropropane	4.58	77	24082	5.692	ug/l 96
32) 1,1,1-Trichloroethane	5.49	97	26002	5.943	ug/l 97
33) Carbon Tetrachloride	5.78	117	21192	5.533	ug/l 93
34) Benzene	6.14	78	71409	6.142	ug/l 98
35) Methacrylonitrile	5.04	41	12932	5.701	ug/l 96
36) 1,2-Dichloroethane	6.19	62	25061m	6.090	ug/l
37) Trichloroethene	7.20	130	19347	5.927	ug/l 95
38) Methylcyclohexane	7.46	83	26744	5.600	ug/l 98
39) 1,2-Dichloropropane	7.51	63	17420	5.821	ug/l 99
40) Dibromomethane	7.66	93	11314	5.662	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.89	83	21541	5.457	ug/l	93
42) Vinyl Acetate	3.81	43	240885	30.774	ug/l	100
43) Ethyl Acetate	4.83	43	22458	5.581	ug/l #	86
44) Isopropyl Acetate	6.44	43	38260	5.656	ug/l	97
45) 1,4-Dioxane	7.75	88	6873	109.961	ug/l	96
46) Methyl methacrylate	7.77	41	17063	5.099	ug/l	99
47) n-amyl Acetate	10.89	43	31717	5.412	ug/l	95
48) t-1,3-Dichloropropene	9.04	75	21542	4.919	ug/l	93
49) cis-1,3-Dichloropropene	8.43	75	25325	5.253	ug/l	95
50) 1,1,2-Trichloroethane	9.21	97	16970	5.700	ug/l	96
51) Ethyl methacrylate	9.17	69	23398	5.092	ug/l	96
52) 1,3-Dichloropropane	9.37	76	28163	5.592	ug/l	100
53) Dibromochloromethane	9.57	129	16424	5.103	ug/l	98
54) 1,2-Dibromoethane	9.67	107	16383	5.183	ug/l	95
55) 2-Chloroethyl vinyl ether	8.31	63	57385	23.445	ug/l	99
56) Bromoform	10.85	173	12417	4.921	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	108789	27.332	ug/l	99
59) 2-Hexanone	9.48	43	81655	26.256	ug/l	100
61) Tetrachloroethene	9.33	164	19550	5.993	ug/l	89
62) Toluene	8.78	91	72227	5.806	ug/l	99
64) Chlorobenzene	10.14	112	44953	5.662	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	16321	5.549	ug/l	97
66) Ethyl Benzene	10.25	91	75522	5.511	ug/l	98
67) m/p-Xylenes	10.36	106	58365	11.045	ug/l	98
68) o-Xylene	10.70	106	28244	5.524	ug/l	94
69) Styrene	10.71	104	46472	5.322	ug/l	99
70) Isopropylbenzene	11.01	105	73899	5.441	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.26	83	24598	5.625	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	20143m	5.553	ug/l	
73) Bromobenzene	11.25	156	20262	5.522	ug/l	99
74) n-propylbenzene	11.35	91	84841	5.489	ug/l	100
75) 2-Chlorotoluene	11.42	91	50798	5.561	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	63134	5.547	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	7545	5.159	ug/l	90
78) 4-Chlorotoluene	11.51	91	57532	5.445	ug/l	98
79) tert-butylbenzene	11.76	119	58361	5.307	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	60760	5.370	ug/l	99
81) sec-Butylbenzene	11.94	105	72840	5.531	ug/l	99
82) p-Isopropyltoluene	12.06	119	66868	5.466	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	35897	5.580	ug/l	97
84) 1,4-Dichlorobenzene	12.09	146	36801	5.681	ug/l	97
85) n-Butylbenzene	12.39	91	55870	5.248	ug/l	99
86) Hexachloroethane	12.59	117	11506	5.203	ug/l	92
87) 1,2-Dichlorobenzene	12.39	146	36521	5.705	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.99	75	4816	5.057	ug/l	95
89) 1,2,4-Trichlorobenzene	13.64	180	24463	5.314	ug/l	99
90) Hexachlorobutadiene	13.78	225	13785	6.030	ug/l	99
91) Naphthalene	13.83	128	62400	4.788	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	25927	5.673	ug/l	97

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

