

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072718\
 Data File : VX003714.D
 Acq On : 27 Jul 2018 13:57
 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
 7/30/2018 3:42:29 PM

Quant Time: Jul 28 02:17:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X072718W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 27 14:47:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	23558	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	122052	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	111242	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	49446	30.73	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.43%
60) 4-Bromofluorobenzene	11.14	95	53260	29.80	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.33%
63) Toluene-d8	8.72	98	156432	31.81	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	106.03%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	22476	12.568	ug/l 99
3) Chloromethane	1.32	50	30348	17.087	ug/l 99
4) Vinyl Chloride	1.40	62	31925	16.486	ug/l 100
5) Bromomethane	1.64	94	17944	22.348	ug/l 97
6) Chloroethane	1.72	64	21031	18.221	ug/l 97
7) Trichlorofluoromethane	1.93	101	42343	16.413	ug/l 99
8) Diethyl Ether	2.19	74	18164	17.217	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.38	101	26045	16.492	ug/l 96
10) 1,1-Dichloroethene	2.37	96	24285	16.572	ug/l 96
11) Methyl Iodide	2.51	142	33341	21.502	ug/l 95
12) Methyl Acetate	2.78	43	46767	19.658	ug/l 92
13) Acrolein	2.29	56	19926	107.793	ug/l 100
14) Acrylonitrile	3.15	53	90336	100.897	ug/l 99
15) Acetone	2.45	58	24597	104.797	ug/l 83
16) Carbon Disulfide	2.57	76	66445	15.874	ug/l 99
17) Allyl chloride	2.73	41	50361	18.068	ug/l 91
18) Methylene Chloride	2.85	84	29312	17.045	ug/l 98
19) trans-1,2-Dichloroethene	3.17	96	26648	16.863	ug/l 99
20) Diisopropyl ether	3.88	45	95147	18.892	ug/l 96
21) 1,1-Dichloroethane	3.70	63	52981	17.937	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	28671	17.065	ug/l 80
23) tert-Butyl Alcohol	3.08	59	38376	103.233	ug/l # 100
24) Methyl tert-Butyl Ether	3.21	73	87142	17.806	ug/l 92
25) Chloroform	5.22	83	49430	18.583	ug/l 99
26) Cyclohexane	5.58	56	41496	17.996	ug/l # 96
29) 1,1-Dichloropropene	5.80	75	35450	18.421	ug/l 99
30) 2-Butanone	4.71	43	118383	110.094	ug/l 96
31) 2,2-Dichloropropane	4.59	77	34897	16.790	ug/l 98
32) 1,1,1-Trichloroethane	5.50	97	40505	18.591	ug/l 99
33) Carbon Tetrachloride	5.79	117	35761	18.703	ug/l 96
34) Benzene	6.15	78	111399	19.658	ug/l 98
35) Methacrylonitrile	5.07	41	23698	20.831	ug/l 92
36) 1,2-Dichloroethane	6.20	62	39377	19.982	ug/l 97
37) Trichloroethene	7.21	130	28549	18.218	ug/l 100
38) Methylcyclohexane	7.46	83	39512	18.165	ug/l 98
39) 1,2-Dichloropropane	7.52	63	28980	19.792	ug/l 96
40) Dibromomethane	7.66	93	18855	19.608	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	34805	19.370	ug/l	97
42) Vinyl Acetate	3.83	43	406918	98.503	ug/l	99
43) Ethyl Acetate	4.87	43	43448	21.272	ug/l	95
44) Isopropyl Acetate	6.47	43	64365	20.560	ug/l	95
45) 1,4-Dioxane	7.76	88	14908	446.153	ug/l #	86
46) Methyl methacrylate	7.78	41	33192	20.503	ug/l	92
47) n-amyl Acetate	10.90	43	56151	20.824	ug/l #	89
48) t-1,3-Dichloropropene	8.44	75	42148	19.273	ug/l	97
49) cis-1,3-Dichloropropene	9.05	75	37095	18.731	ug/l	93
50) 1,1,2-Trichloroethane	9.22	97	28424	19.598	ug/l	98
51) Ethyl methacrylate	9.18	69	40766	19.287	ug/l	87
52) 1,3-Dichloropropane	9.38	76	46781	19.638	ug/l	99
53) Dibromochloromethane	9.59	129	26808	18.496	ug/l	99
54) 1,2-Dibromoethane	9.68	107	29063	19.323	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	111540	111.857	ug/l	99
56) Bromoform	10.86	173	20163	18.194	ug/l	100
58) 4-Methyl-2-Pentanone	8.65	43	222502	112.282	ug/l	95
59) 2-Hexanone	9.50	43	170430	112.292	ug/l	95
61) Tetrachloroethene	9.34	164	25259	14.836	ug/l	99
62) Toluene	8.79	91	118917	19.594	ug/l	99
64) Chlorobenzene	10.14	112	75520	18.791	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	26505	18.593	ug/l	98
66) Ethyl Benzene	10.26	91	126351	18.840	ug/l	100
67) m/p-Xylenes	10.36	106	98554	37.766	ug/l	99
68) o-Xylene	10.70	106	46669	18.587	ug/l	99
69) Styrene	10.71	104	79293	18.998	ug/l	98
70) Isopropylbenzene	11.02	105	126848	19.053	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	45654	21.865	ug/l	98
72) 1,2,3-Trichloropropane	11.30	75	38974m	15.958	ug/l	
73) Bromobenzene	11.26	156	33419	18.058	ug/l	98
74) n-propylbenzene	11.37	91	149355	19.261	ug/l	100
75) 2-Chlorotoluene	11.43	91	89185	19.228	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	107430	19.069	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	12223	20.956	ug/l	97
78) 4-Chlorotoluene	11.51	91	103213	19.049	ug/l	100
79) tert-butylbenzene	12.07	119	110577	18.533	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	110656	19.330	ug/l	99
81) sec-Butylbenzene	11.95	105	124325	18.653	ug/l	99
82) p-Isopropyltoluene	12.07	119	110577	18.533	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	62567	18.247	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	63115	18.237	ug/l	99
85) n-Butylbenzene	12.39	91	94770	18.091	ug/l	99
86) Hexachloroethane	12.60	117	17347	19.751	ug/l	98
87) 1,2-Dichlorobenzene	12.40	146	62762	18.311	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	9177	21.155	ug/l	97
89) 1,2,4-Trichlorobenzene	13.65	180	42786	17.386	ug/l	100
90) Hexachlorobutadiene	13.79	225	20051	16.629	ug/l	99
91) Naphthalene	13.84	128	134170	18.905	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	45206	18.120	ug/l	99

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

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