

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052518\
 Data File : VX001956.D
 Acq On : 24 May 2018 22:31
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 5/29/2018 4:39:09 PM

Quant Time: May 25 02:03:55 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X052518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 25 01:52:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	67197	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	370067	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	327011	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.08	65	158152	32.01	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	106.70%
60) 4-Bromofluorobenzene	11.14	95	160910	30.74	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	102.47%
63) Toluene-d8	8.72	98	449228	30.87	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	19658	6.170	ug/l 100
3) Chloromethane	1.32	50	23414	6.462	ug/l 99
4) Vinyl Chloride	1.40	62	22565	6.023	ug/l 99
5) Bromomethane	1.64	94	14301	7.758	ug/l 99
6) Chloroethane	1.72	64	13851	5.671	ug/l 94
7) Trichlorofluoromethane	1.93	101	34690	6.332	ug/l 100
8) Diethyl Ether	2.19	74	13318	5.764	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	2.39	101	18719	6.224	ug/l 98
10) 1,1-Dichloroethene	2.37	96	17619	5.718	ug/l 96
11) Methyl Iodide	2.51	142	22153	4.862	ug/l 98
12) Methyl Acetate	2.79	43	28876	5.580	ug/l 95
13) Acrolein	2.30	56	14074	24.915	ug/l 94
14) Acrylonitrile	3.15	53	59168	28.360	ug/l 100
15) Acetone	2.45	58	16227	28.969	ug/l 97
16) Carbon Disulfide	2.57	76	51068	6.459	ug/l 99
17) Allyl chloride	2.73	41	36712	6.115	ug/l 98
18) Methylene Chloride	2.86	84	19977	5.544	ug/l 94
19) trans-1,2-Dichloroethene	3.17	96	18544	5.575	ug/l 92
20) Diisopropyl ether	3.89	45	71154	6.308	ug/l 98
21) 1,1-Dichloroethane	3.70	63	37484	5.901	ug/l 97
22) cis-1,2-Dichloroethene	4.60	96	22401	5.905	ug/l # 32
23) tert-Butyl Alcohol	3.09	59	30271	31.358	ug/l # 100
24) Methyl tert-Butyl Ether	3.21	73	69764	6.129	ug/l 99
25) Chloroform	5.23	83	38537	5.865	ug/l 97
26) Cyclohexane	5.57	56	33779	6.917	ug/l # 100
29) 1,1-Dichloropropene	5.80	75	26934	5.801	ug/l 99
30) 2-Butanone	4.72	43	97546	31.308	ug/l 99
31) 2,2-Dichloropropane	4.59	77	25707	6.346	ug/l 99
32) 1,1,1-Trichloroethane	5.50	97	36589	6.166	ug/l 99
33) Carbon Tetrachloride	5.79	117	32634	6.170	ug/l 97
34) Benzene	6.15	78	82849	5.632	ug/l 98
35) Methacrylonitrile	5.08	41	21789	6.436	ug/l 91
36) 1,2-Dichloroethane	6.21	62	31247	5.393	ug/l # 95
37) Trichloroethene	7.22	130	22874	5.319	ug/l 91
38) Methylcyclohexane	7.46	83	31489	6.223	ug/l 98
39) 1,2-Dichloropropane	7.52	63	23077	6.145	ug/l 98
40) Dibromomethane	7.67	93	15054	5.684	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	30944	6.058	ug/l	99
42) Vinyl Acetate	3.83	43	309614	30.204	ug/l	99
43) Ethyl Acetate	4.88	43	37939	6.333	ug/l	99
44) Isopropyl Acetate	6.48	43	61753	6.572	ug/l	99
45) 1,4-Dioxane	7.77	88	11833	113.112	ug/l #	68
46) Methyl methacrylate	7.79	41	31529	6.333	ug/l	99
47) n-amyl Acetate	10.90	43	55011	6.680	ug/l #	91
48) t-1,3-Dichloropropene	8.44	75	34118	6.016	ug/l	99
49) cis-1,3-Dichloropropene	9.05	75	32269	6.302	ug/l	96
50) 1,1,2-Trichloroethane	9.22	97	21129	5.469	ug/l	99
51) Ethyl methacrylate	9.19	69	36233	6.153	ug/l	94
52) 1,3-Dichloropropane	9.38	76	36210	5.628	ug/l	98
53) Dibromochloromethane	9.59	129	25068	5.977	ug/l	98
54) 1,2-Dibromoethane	9.68	107	22858	5.574	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	85285	27.903	ug/l	100
56) Bromoform	10.86	173	20658	5.909	ug/l	99
58) 4-Methyl-2-Pentanone	8.66	43	196040	32.431	ug/l	99
59) 2-Hexanone	9.51	43	150499	33.040	ug/l	99
61) Tetrachloroethene	9.34	164	27102	5.760	ug/l	99
62) Toluene	8.79	91	89306	5.725	ug/l	99
64) Chlorobenzene	10.15	112	56388	5.541	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.23	131	23451	5.969	ug/l	97
66) Ethyl Benzene	10.26	91	98871	6.013	ug/l	99
67) m/p-Xylenes	10.37	106	73280	11.327	ug/l	99
68) o-Xylene	10.70	106	36614	5.680	ug/l	99
69) Styrene	10.72	104	60431	5.685	ug/l	99
70) Isopropylbenzene	11.02	105	97828	5.874	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	31100	5.634	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	27577m	5.062	ug/l	
73) Bromobenzene	11.26	156	25173	5.106	ug/l	97
74) n-propylbenzene	11.37	91	104155	5.672	ug/l	100
75) 2-Chlorotoluene	11.43	91	66760	5.817	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	81997	5.839	ug/l	98
77) t-1,4-Dichloro-2-butene	11.08	75	10430	6.912	ug/l	99
78) 4-Chlorotoluene	11.52	91	73164	5.618	ug/l	98
79) tert-butylbenzene	12.07	119	81289	5.502	ug/l	98
80) 1,2,4-Trimethylbenzene	11.81	105	80618	5.641	ug/l	97
81) sec-Butylbenzene	11.95	105	92364	5.662	ug/l	100
82) p-Isopropyltoluene	12.07	119	81289	5.502	ug/l	98
83) 1,3-Dichlorobenzene	12.03	146	43239	5.036	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	42003	4.878	ug/l	99
85) n-Butylbenzene	12.39	91	63861	5.357	ug/l	99
86) Hexachloroethane	12.60	117	16580	6.630	ug/l	98
87) 1,2-Dichlorobenzene	12.40	146	45848	5.159	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	8926	6.570	ug/l	97
89) 1,2,4-Trichlorobenzene	13.65	180	29586	4.675	ug/l	99
90) Hexachlorobutadiene	13.79	225	16276	5.017	ug/l	97
91) Naphthalene	13.84	128	101353	5.256	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	32752	4.898	ug/l	97

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

