

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062218\
 Data File : VX002829.D
 Acq On : 22 Jun 2018 11:51
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 6/25/2018 6:56:04 PM

Quant Time: Jun 22 13:45:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X061818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jun 18 15:18:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	51427	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	282885	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	265185	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	118081	30.07	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.23%
60) 4-Bromofluorobenzene	11.14	95	130844	29.87	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.57%
63) Toluene-d8	8.72	98	351036	30.30	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.00%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	58639	23.89	ug/l	98
3) Chloromethane	1.32	50	59539	22.34	ug/l	98
4) Vinyl Chloride	1.40	62	65288	21.99	ug/l	98
5) Bromomethane	1.64	94	28435	16.39	ug/l	95
6) Chloroethane	1.73	64	41575	20.82	ug/l	98
7) Trichlorofluoromethane	1.93	101	113178	21.45	ug/l	99
8) Diethyl Ether	2.19	74	40009	21.26	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.39	101	64968	21.51	ug/l	99
10) 1,1-Dichloroethene	2.37	96	55719	20.96	ug/l	98
11) Methyl Iodide	2.51	142	60864	19.88	ug/l	98
12) Methyl Acetate	2.78	43	92854	21.52	ug/l	99
13) Acrolein	2.29	56	21697	70.73	ug/l	99
14) Acrylonitrile	3.15	53	164015	101.07	ug/l	99
15) Acetone	2.45	58	47246	104.75	ug/l	95
16) Carbon Disulfide	2.57	76	142381	21.39	ug/l	100
17) Allyl chloride	2.73	41	109632	20.72	ug/l	92
18) Methylene Chloride	2.86	84	63618	20.91	ug/l	98
19) trans-1,2-Dichloroethene	3.17	96	60968	21.39	ug/l	95
20) Diisopropyl ether	3.87	45	214199	21.73	ug/l	92
21) 1,1-Dichloroethane	3.70	63	115845	21.85	ug/l	100
22) cis-1,2-Dichloroethene	4.60	96	68217	22.26	ug/l	87
23) tert-Butyl Alcohol	3.06	59	75371	102.30	ug/l	# 100
24) Methyl tert-Butyl Ether	3.20	73	200616	20.21	ug/l	99
25) Chloroform	5.22	83	118523	22.28	ug/l	98
26) Cyclohexane	5.57	56	97014	21.54	ug/l	# 94
29) 1,1-Dichloropropene	5.80	75	84729	22.18	ug/l	97
30) 2-Butanone	4.70	43	238805	109.24	ug/l	98
31) 2,2-Dichloropropane	4.59	77	92434	22.64	ug/l	98
32) 1,1,1-Trichloroethane	5.49	97	101721	22.04	ug/l	99
33) Carbon Tetrachloride	5.78	117	91068	21.95	ug/l	97
34) Benzene	6.15	78	250191	22.11	ug/l	99
35) Methacrylonitrile	5.06	41	51222	21.52	ug/l	96
36) 1,2-Dichloroethane	6.20	62	100109	22.54	ug/l	100
37) Trichloroethene	7.21	130	74167	22.38	ug/l	95
38) Methylcyclohexane	7.46	83	101175	21.77	ug/l	99
39) 1,2-Dichloropropane	7.52	63	63752	21.60	ug/l	99
40) Dibromomethane	7.67	93	45420	22.15	ug/l	97

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

41) Bromodichloromethane	7.90	83	83870	21.78	ug/l	94
42) Vinyl Acetate	3.82	43	905379	109.21	ug/l	100
43) Ethyl Acetate	4.86	43	91239	21.82	ug/l	96
44) Isopropyl Acetate	6.46	43	149392	21.33	ug/l	100
45) 1,4-Dioxane	7.76	88	29819	434.52	ug/l	91
46) Methyl methacrylate	7.78	41	78479	21.93	ug/l	98
47) n-amyl Acetate	10.90	43	136427	20.64	ug/l #	90
48) t-1,3-Dichloropropene	8.44	75	97325	21.52	ug/l	99
49) cis-1,3-Dichloropropene	9.04	75	89554	21.21	ug/l	99
50) 1,1,2-Trichloroethane	9.22	97	66892	22.12	ug/l	97
51) Ethyl methacrylate	9.18	69	95905	21.01	ug/l	96
52) 1,3-Dichloropropane	9.37	76	109340	22.13	ug/l	100
53) Dibromochloromethane	9.59	129	68844	21.44	ug/l	99
54) 1,2-Dibromoethane	9.68	107	69213	21.72	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	210418	97.04	ug/l	98
56) Bromoform	10.86	173	50577	19.73	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	480785	106.78	ug/l	98
59) 2-Hexanone	9.50	43	370940	107.77	ug/l	100
61) Tetrachloroethene	9.34	164	90551	24.88	ug/l	99
62) Toluene	8.79	91	283187	22.15	ug/l	98
64) Chlorobenzene	10.14	112	186879	22.00	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	69104	22.20	ug/l	99
66) Ethyl Benzene	10.26	91	316413	21.98	ug/l	99
67) m/p-Xylenes	10.36	106	243658	43.55	ug/l	100
68) o-Xylene	10.70	106	118948	21.82	ug/l	98
69) Styrene	10.71	104	196657	21.63	ug/l	99
70) Isopropylbenzene	11.02	105	326754	21.74	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	94704	21.08	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	85363m	21.92	ug/l	
73) Bromobenzene	11.26	156	90555	21.67	ug/l	93
74) n-propylbenzene	11.36	91	381301	21.86	ug/l	99
75) 2-Chlorotoluene	11.43	91	224500	22.11	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	276895	21.70	ug/l	98
77) t-1,4-Dichloro-2-butene	11.08	75	23833	19.03	ug/l	87
78) 4-Chlorotoluene	11.51	91	264739	22.01	ug/l	98
79) tert-butylbenzene	12.07	119	299574	21.28	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	284318	21.82	ug/l	99
81) sec-Butylbenzene	11.95	105	336574	21.56	ug/l	99
82) p-Isopropyltoluene	12.07	119	299574	21.28	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	165176	21.48	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	167899	21.61	ug/l	98
85) n-Butylbenzene	12.39	91	261733	20.98	ug/l	99
86) Hexachloroethane	12.60	117	40937	19.19	ug/l	98
87) 1,2-Dichlorobenzene	12.40	146	167391	21.55	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	20095	20.02	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	123868	21.13	ug/l	99
90) Hexachlorobutadiene	13.79	225	65782	21.55	ug/l	98
91) Naphthalene	13.84	128	328771	21.16	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	124443	21.33	ug/l	100

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

