

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061818\
 Data File : VX002678.D
 Acq On : 18 Jun 2018 13:10
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 6/19/2018 1:05:28 PM

Quant Time: Jun 18 15:08:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X061818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jun 18 14:58:06 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	44848	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	247168	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	231087	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	102635	29.08	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.93%
60) 4-Bromofluorobenzene	11.14	95	111408	28.16	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.87%
63) Toluene-d8	8.72	98	307608	29.87	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.57%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	42428	17.82	ug/l	99
3) Chloromethane	1.32	50	47660	16.83	ug/l	97
4) Vinyl Chloride	1.41	62	52709	18.71	ug/l	99
5) Bromomethane	1.64	94	30289	19.19	ug/l	98
6) Chloroethane	1.73	64	35947	21.57	ug/l	95
7) Trichlorofluoromethane	1.93	101	95041	22.12	ug/l	100
8) Diethyl Ether	2.19	74	33509	20.72	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.39	101	52909	22.86	ug/l	98
10) 1,1-Dichloroethene	2.38	96	47034	21.08	ug/l	93
11) Methyl Iodide	2.51	142	44824	12.79	ug/l	97
12) Methyl Acetate	2.78	43	80505	22.26	ug/l	99
13) Acrolein	2.30	56	22960	74.56	ug/l	98
14) Acrylonitrile	3.15	53	145977	98.11	ug/l	99
15) Acetone	2.45	58	42434	106.98	ug/l	99
16) Carbon Disulfide	2.57	76	112328	17.63	ug/l	99
17) Allyl chloride	2.73	41	94604	20.54	ug/l	89
18) Methylene Chloride	2.86	84	53914	21.50	ug/l	99
19) trans-1,2-Dichloroethene	3.17	96	50257	21.30	ug/l	100
20) Diisopropyl ether	3.88	45	169671	19.30	ug/l	99
21) 1,1-Dichloroethane	3.70	63	100940	21.57	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	54424	19.35	ug/l #	79
23) tert-Butyl Alcohol	3.07	59	68780	89.12	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	176613	20.28	ug/l	98
25) Chloroform	5.22	83	95575	19.42	ug/l	95
26) Cyclohexane	5.58	56	79780	18.52	ug/l #	95
29) 1,1-Dichloropropene	5.81	75	67972	19.66	ug/l	99
30) 2-Butanone	4.71	43	198113	82.13	ug/l	97
31) 2,2-Dichloropropane	4.59	77	73369	24.14	ug/l	100
32) 1,1,1-Trichloroethane	5.50	97	82138	18.19	ug/l	100
33) Carbon Tetrachloride	5.79	117	71475	17.42	ug/l	95
34) Benzene	6.15	78	202401	19.38	ug/l	98
35) Methacrylonitrile	5.07	41	43470	16.27	ug/l	98
36) 1,2-Dichloroethane	6.20	62	79930	19.65	ug/l	99
37) Trichloroethene	7.21	130	58572	19.77	ug/l	89
38) Methylcyclohexane	7.46	83	80294	19.90	ug/l	99
39) 1,2-Dichloropropane	7.52	63	53633	19.00	ug/l	98
40) Dibromomethane	7.66	93	36606	19.32	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	66572	16.94	ug/l	97
42) Vinyl Acetate	3.83	43	722822	94.72	ug/l	99
43) Ethyl Acetate	4.86	43	76175	16.09	ug/l	100
44) Isopropyl Acetate	6.47	43	123700	15.71	ug/l	100
45) 1,4-Dioxane	7.76	88	25565	341.33	ug/l #	85
46) Methyl methacrylate	7.78	41	64228	16.11	ug/l	96
47) n-amyl Acetate	10.90	43	111556	15.40	ug/l #	90
48) t-1,3-Dichloropropene	8.44	75	78665	17.81	ug/l	100
49) cis-1,3-Dichloropropene	9.04	75	70157	16.41	ug/l	97
50) 1,1,2-Trichloroethane	9.22	97	53611	19.71	ug/l	98
51) Ethyl methacrylate	9.18	69	79051	16.78	ug/l	96
52) 1,3-Dichloropropane	9.38	76	88152	19.22	ug/l	100
53) Dibromochloromethane	9.59	129	53127	15.99	ug/l	98
54) 1,2-Dibromoethane	9.68	107	55903	18.99	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	190243	86.04	ug/l	98
56) Bromoform	10.86	173	40611	13.90	ug/l	98
58) 4-Methyl-2-Pentanone	8.65	43	404260	80.39	ug/l	98
59) 2-Hexanone	9.50	43	310961	79.69	ug/l	100
61) Tetrachloroethene	9.34	164	64756	18.37	ug/l	98
62) Toluene	8.79	91	229374	19.44	ug/l	99
64) Chlorobenzene	10.14	112	150903	19.76	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	54681	17.59	ug/l	99
66) Ethyl Benzene	10.26	91	256570	19.34	ug/l	100
67) m/p-Xylenes	10.36	106	197465	39.22	ug/l	98
68) o-Xylene	10.70	106	95546	18.95	ug/l	99
69) Styrene	10.71	104	156469	18.48	ug/l	99
70) Isopropylbenzene	11.02	105	264310	19.58	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	79926	18.89	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	70483m	17.68	ug/l	
73) Bromobenzene	11.26	156	72772	20.07	ug/l	94
74) n-propylbenzene	11.37	91	305948	20.30	ug/l	99
75) 2-Chlorotoluene	11.43	91	178096	19.16	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	221920	19.33	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	20593	14.26	ug/l	92
78) 4-Chlorotoluene	11.51	91	204727	19.37	ug/l	97
79) tert-butylbenzene	12.07	119	243655	20.24	ug/l	100
80) 1,2,4-Trimethylbenzene	11.81	105	227927	19.64	ug/l	98
81) sec-Butylbenzene	11.95	105	272723	20.27	ug/l	99
82) p-Isopropyltoluene	12.07	119	243655	20.24	ug/l	100
83) 1,3-Dichlorobenzene	12.03	146	133015	20.70	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	132691	20.75	ug/l	99
85) n-Butylbenzene	12.39	91	209190	20.72	ug/l	99
86) Hexachloroethane	12.60	117	34536	14.42	ug/l	96
87) 1,2-Dichlorobenzene	12.40	146	134896	20.38	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.01	75	16421	13.32	ug/l	96
89) 1,2,4-Trichlorobenzene	13.65	180	100956	21.48	ug/l	97
90) Hexachlorobutadiene	13.79	225	51768	20.71	ug/l	99
91) Naphthalene	13.84	128	268661	18.12	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	99772	20.33	ug/l	99

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

