

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080218\
 Data File : VX003829.D
 Acq On : 02 Aug 2018 17:33
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 8/3/2018 9:48:39 AM

Quant Time: Aug 03 04:02:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X072718W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 27 16:17:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	21678	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	109959	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	104995	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	46474	29.20	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.33%
60) 4-Bromofluorobenzene	11.14	95	50422	29.83	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.43%
63) Toluene-d8	8.72	98	140718	29.75	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.17%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	28429	24.83	ug/l	99
3) Chloromethane	1.32	50	35475	23.02	ug/l	100
4) Vinyl Chloride	1.40	62	29211	18.02	ug/l	97
5) Bromomethane	1.64	94	15795	16.30	ug/l	97
6) Chloroethane	1.73	64	16252	15.32	ug/l	95
7) Trichlorofluoromethane	1.93	101	38363	17.60	ug/l	99
8) Diethyl Ether	2.19	74	17386	18.61	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.38	101	23306	17.63	ug/l	97
10) 1,1-Dichloroethene	2.37	96	21381	17.20	ug/l	94
11) Methyl Iodide	2.51	142	24801	14.40	ug/l	93
12) Methyl Acetate	2.78	43	38253	16.63	ug/l #	91
13) Acrolein	2.29	56	24116	134.46	ug/l	99
14) Acrylonitrile	3.15	53	82188	90.70	ug/l	99
15) Acetone	2.45	58	22233	90.42	ug/l	78
16) Carbon Disulfide	2.57	76	59277	17.17	ug/l	99
17) Allyl chloride	2.73	41	33823	13.15	ug/l	90
18) Methylene Chloride	2.86	84	24334	16.53	ug/l #	86
19) trans-1,2-Dichloroethene	3.16	96	23613	17.58	ug/l	98
20) Diisopropyl ether	3.87	45	84537	17.90	ug/l	97
21) 1,1-Dichloroethane	3.70	63	46109	17.24	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	26511	19.54	ug/l #	73
23) tert-Butyl Alcohol	3.07	59	35737	93.89	ug/l #	100
24) Methyl tert-Butyl Ether	3.20	73	81959	18.39	ug/l	92
25) Chloroform	5.21	83	46020	19.87	ug/l	98
26) Cyclohexane	5.57	56	36968	18.40	ug/l #	99
29) 1,1-Dichloropropene	5.80	75	31086	19.14	ug/l	98
30) 2-Butanone	4.71	43	111552	107.58	ug/l #	93
31) 2,2-Dichloropropane	4.58	77	27749	17.64	ug/l	99
32) 1,1,1-Trichloroethane	5.49	97	36444	19.62	ug/l	98
33) Carbon Tetrachloride	5.78	117	31576	19.56	ug/l	96
34) Benzene	6.14	78	101249	20.30	ug/l	98
35) Methacrylonitrile	5.07	41	22752	21.11	ug/l	93
36) 1,2-Dichloroethane	6.20	62	37372	20.84	ug/l	97
37) Trichloroethene	7.21	130	26009	20.00	ug/l	89
38) Methylcyclohexane	7.46	83	34953	18.94	ug/l	99
39) 1,2-Dichloropropane	7.52	63	27470	20.84	ug/l	97
40) Dibromomethane	7.67	93	18150	21.27	ug/l	99

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

41) Bromodichloromethane	7.90	83	33106	20.31	ug/l	100
42) Vinyl Acetate	3.82	43	350958	88.08	ug/l	99
43) Ethyl Acetate	4.86	43	40456	20.89	ug/l	97
44) Isopropyl Acetate	6.46	43	61490	20.70	ug/l	95
45) 1,4-Dioxane	7.76	88	13093	396.84	ug/l #	87
46) Methyl methacrylate	7.78	41	32058	20.92	ug/l	88
47) n-amyl Acetate	10.90	43	52444	18.70	ug/l #	89
48) t-1,3-Dichloropropene	8.44	75	39732	20.09	ug/l	99
49) cis-1,3-Dichloropropene	9.04	75	36328	19.58	ug/l	91
50) 1,1,2-Trichloroethane	9.22	97	28156	20.79	ug/l	96
51) Ethyl methacrylate	9.18	69	38828	19.04	ug/l	85
52) 1,3-Dichloropropane	9.37	76	45684	20.27	ug/l	99
53) Dibromochloromethane	9.59	129	26759	20.11	ug/l	99
54) 1,2-Dibromoethane	9.68	107	28896	20.40	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	103246	98.16	ug/l	99
56) Bromoform	10.86	173	20873	20.22	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	211247	106.55	ug/l	94
59) 2-Hexanone	9.50	43	162257	102.79	ug/l	94
61) Tetrachloroethene	9.34	164	24806	20.30	ug/l	98
62) Toluene	8.79	91	109353	20.07	ug/l	99
64) Chlorobenzene	10.14	112	71349	20.26	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	25742	20.66	ug/l	98
66) Ethyl Benzene	10.26	91	114808	19.14	ug/l	100
67) m/p-Xylenes	10.36	106	89971	38.95	ug/l	99
68) o-Xylene	10.70	106	43442	19.66	ug/l	97
69) Styrene	10.71	104	73336	19.60	ug/l	97
70) Isopropylbenzene	11.02	105	116319	19.12	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	43853	20.19	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	38813m	21.48	ug/l	
73) Bromobenzene	11.26	156	32635	19.90	ug/l	98
74) n-propylbenzene	11.36	91	135432	18.90	ug/l	100
75) 2-Chlorotoluene	11.42	91	81530	19.30	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	98616	19.10	ug/l	98
77) t-1,4-Dichloro-2-butene	11.08	75	11735	19.06	ug/l	97
78) 4-Chlorotoluene	11.51	91	94138	19.05	ug/l	98
79) tert-butylbenzene	12.07	119	102671	19.33	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	101672	19.24	ug/l	99
81) sec-Butylbenzene	11.95	105	114307	19.01	ug/l	100
82) p-Isopropyltoluene	12.07	119	102671	19.33	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	59073	19.73	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	60184	19.96	ug/l	100
85) n-Butylbenzene	12.39	91	87786	18.62	ug/l	99
86) Hexachloroethane	12.60	117	15718	18.36	ug/l	99
87) 1,2-Dichlorobenzene	12.40	146	60657	20.18	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.00	75	9145	19.95	ug/l	95
89) 1,2,4-Trichlorobenzene	13.65	180	42652	20.21	ug/l	99
90) Hexachlorobutadiene	13.79	225	20045	20.95	ug/l	99
91) Naphthalene	13.83	128	132329	20.51	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	44083	20.51	ug/l	99

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

