

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080718\
 Data File : VX003895.D
 Acq On : 07 Aug 2018 22:19
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 8/8/2018 12:02:20 PM

Quant Time: Aug 08 04:22:33 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	5.03	128	69799	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	377820	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	349282	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	145587	28.41	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	94.70%
60) 4-Bromofluorobenzene	11.14	95	164184	29.19	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.30%
63) Toluene-d8	8.72	98	466258	29.63	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.77%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	100743	27.33	ug/l	99
3) Chloromethane	1.32	50	101856	20.53	ug/l	99
4) Vinyl Chloride	1.40	62	103332	19.80	ug/l	99
5) Bromomethane	1.64	94	61346	19.67	ug/l	99
6) Chloroethane	1.72	64	68950	20.19	ug/l	99
7) Trichlorofluoromethane	1.93	101	133375	19.00	ug/l	99
8) Diethyl Ether	2.19	74	58128	19.32	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.38	101	81539	19.16	ug/l	93
10) 1,1-Dichloroethene	2.37	96	76048	19.00	ug/l	93
11) Methyl Iodide	2.51	142	95736	17.26	ug/l	93
12) Methyl Acetate	2.78	43	160364	21.66	ug/l	96
13) Acrolein	2.29	56	73080	126.55	ug/l	99
14) Acrylonitrile	3.15	53	263320	90.25	ug/l	99
15) Acetone	2.45	58	73682	93.07	ug/l	81
16) Carbon Disulfide	2.57	76	203254	18.29	ug/l	100
17) Allyl chloride	2.73	41	146004	17.63	ug/l	91
18) Methylene Chloride	2.86	84	92917	19.60	ug/l	97
19) trans-1,2-Dichloroethene	3.16	96	82326	19.03	ug/l	100
20) Diisopropyl ether	3.87	45	262027	17.23	ug/l	99
21) 1,1-Dichloroethane	3.70	63	160345	18.62	ug/l	98
22) cis-1,2-Dichloroethene	4.60	96	91457	20.94	ug/l #	71
23) tert-Butyl Alcohol	3.07	59	117425	95.82	ug/l	100
24) Methyl tert-Butyl Ether	3.21	73	268333	18.70	ug/l	90
25) Chloroform	5.21	83	152029	20.39	ug/l	99
26) Cyclohexane	5.57	56	128280	19.83	ug/l #	90
29) 1,1-Dichloropropene	5.80	75	112402	20.15	ug/l	98
30) 2-Butanone	4.71	43	335276	94.10	ug/l #	92
31) 2,2-Dichloropropane	4.59	77	87889	16.26	ug/l	98
32) 1,1,1-Trichloroethane	5.49	97	125633	19.68	ug/l	99
33) Carbon Tetrachloride	5.78	117	108091	19.49	ug/l	97
34) Benzene	6.15	78	349190	20.37	ug/l	97
35) Methacrylonitrile	5.06	41	69194	18.69	ug/l	91
36) 1,2-Dichloroethane	6.20	62	120360	19.53	ug/l #	94
37) Trichloroethene	7.21	130	91090	20.39	ug/l	92
38) Methylcyclohexane	7.46	83	124638	19.66	ug/l	95
39) 1,2-Dichloropropane	7.52	63	87188	19.25	ug/l	95
40) Dibromomethane	7.67	93	57105	19.48	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	107249	19.15	ug/l	98
42) Vinyl Acetate	3.82	43	1038121	75.83	ug/l	96
43) Ethyl Acetate	4.86	43	121476	18.25	ug/l	98
44) Isopropyl Acetate	6.47	43	186037	18.22	ug/l	93
45) 1,4-Dioxane	7.76	88	46282	408.26	ug/l #	83
46) Methyl methacrylate	7.78	41	99763	18.94	ug/l	87
47) n-amyl Acetate	10.90	43	157783	16.37	ug/l #	89
48) t-1,3-Dichloropropene	8.44	75	125734	18.50	ug/l	100
49) cis-1,3-Dichloropropene	9.04	75	112861	17.70	ug/l	93
50) 1,1,2-Trichloroethane	9.22	97	89328	19.20	ug/l	96
51) Ethyl methacrylate	9.18	69	123886	17.68	ug/l	85
52) 1,3-Dichloropropane	9.37	76	151959	19.62	ug/l	99
53) Dibromochloromethane	9.59	129	84927	18.58	ug/l	100
54) 1,2-Dibromoethane	9.68	107	92703	19.05	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	322693	89.29	ug/l	97
56) Bromoform	10.86	173	63626	17.94	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	643662	97.60	ug/l #	91
59) 2-Hexanone	9.50	43	493610	94.00	ug/l	91
61) Tetrachloroethene	9.34	164	87703	21.58	ug/l	98
62) Toluene	8.79	91	373865	20.62	ug/l	99
64) Chlorobenzene	10.14	112	242914	20.73	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	85668	20.67	ug/l	99
66) Ethyl Benzene	10.26	91	398935	20.00	ug/l	100
67) m/p-Xylenes	10.36	106	320302	41.68	ug/l	95
68) o-Xylene	10.70	106	152301	20.72	ug/l	94
69) Styrene	10.71	104	248399	19.96	ug/l	96
70) Isopropylbenzene	11.02	105	406011	20.06	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	138471	19.17	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	121426m	20.20	ug/l	
73) Bromobenzene	11.26	156	107814	19.77	ug/l	99
74) n-propylbenzene	11.36	91	464513	19.49	ug/l	99
75) 2-Chlorotoluene	11.42	91	280215	19.94	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	334919	19.50	ug/l	96
77) t-1,4-Dichloro-2-butene	11.08	75	33808	16.51	ug/l	98
78) 4-Chlorotoluene	11.51	91	318300	19.36	ug/l	99
79) tert-butylbenzene	12.07	119	327654	18.54	ug/l	98
80) 1,2,4-Trimethylbenzene	11.81	105	345475	19.66	ug/l	95
81) sec-Butylbenzene	11.94	105	391224	19.56	ug/l	100
82) p-Isopropyltoluene	12.07	119	327654	18.54	ug/l	98
83) 1,3-Dichlorobenzene	12.03	146	183652	18.44	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	187754	18.72	ug/l	97
85) n-Butylbenzene	12.39	91	254824	16.25	ug/l	97
86) Hexachloroethane	12.60	117	46195	16.22	ug/l	96
87) 1,2-Dichlorobenzene	12.40	146	176668	17.67	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.00	75	24065	15.78	ug/l	94
89) 1,2,4-Trichlorobenzene	13.65	180	135493	19.30	ug/l	98
90) Hexachlorobutadiene	13.79	225	62287	19.57	ug/l	99
91) Naphthalene	13.83	128	425958	19.85	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	144696	20.24	ug/l	99

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

