

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061818\
 Data File : VX002682.D
 Acq On : 18 Jun 2018 15:39
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX061818

Manual Integrations
 APPROVED

MMDadoda
 6/19/2018 1:05:30 PM

Quant Time: Jun 18 17:27:19 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	47863	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	274625	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	254275	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	110767	30.31	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.03%
60) 4-Bromofluorobenzene	11.14	95	125292	29.83	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.43%
63) Toluene-d8	8.72	98	332586	29.94	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.80%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	52674	23.06	ug/l	100
3) Chloromethane	1.32	50	56401	22.74	ug/l	96
4) Vinyl Chloride	1.40	62	65360	23.65	ug/l	100
5) Bromomethane	1.64	94	42846	26.54	ug/l	99
6) Chloroethane	1.73	64	42271	22.75	ug/l	98
7) Trichlorofluoromethane	1.93	101	112000	22.80	ug/l	96
8) Diethyl Ether	2.19	74	40379	23.06	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	64616	22.99	ug/l	98
10) 1,1-Dichloroethene	2.37	96	56249	22.73	ug/l	98
11) Methyl Iodide	2.51	142	61083	21.44	ug/l	99
12) Methyl Acetate	2.78	43	91860	22.88	ug/l	99
13) Acrolein	2.29	56	24723	86.59	ug/l	98
14) Acrylonitrile	3.15	53	169287	112.09	ug/l	98
15) Acetone	2.45	58	50629	120.61	ug/l	98
16) Carbon Disulfide	2.57	76	140956	22.75	ug/l	99
17) Allyl chloride	2.73	41	111823	22.71	ug/l	93
18) Methylene Chloride	2.86	84	62663	22.13	ug/l	99
19) trans-1,2-Dichloroethene	3.17	96	60597	22.84	ug/l	99
20) Diisopropyl ether	3.87	45	218439	23.81	ug/l	96
21) 1,1-Dichloroethane	3.70	63	116949	23.70	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	65280	22.89	ug/l #	76
23) tert-Butyl Alcohol	3.07	59	78736	114.83	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	205520	22.25	ug/l	99
25) Chloroform	5.21	83	110914	22.40	ug/l	97
26) Cyclohexane	5.57	56	93666	22.35	ug/l #	94
29) 1,1-Dichloropropene	5.80	75	82832	22.33	ug/l	100
30) 2-Butanone	4.71	43	234862	110.67	ug/l	98
31) 2,2-Dichloropropane	4.59	77	87613	22.10	ug/l	99
32) 1,1,1-Trichloroethane	5.49	97	94980	21.20	ug/l	100
33) Carbon Tetrachloride	5.78	117	84158	20.90	ug/l	96
34) Benzene	6.15	78	234173	21.32	ug/l	99
35) Methacrylonitrile	5.07	41	50895	22.03	ug/l	97
36) 1,2-Dichloroethane	6.20	62	93549	21.69	ug/l	99
37) Trichloroethene	7.21	130	70483	21.91	ug/l	89
38) Methylcyclohexane	7.46	83	99341	22.02	ug/l	98
39) 1,2-Dichloropropane	7.52	63	61551	21.48	ug/l	98
40) Dibromomethane	7.67	93	41958	21.08	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	78213	20.92	ug/l	95
42) Vinyl Acetate	3.82	43	930469	115.61	ug/l	100
43) Ethyl Acetate	4.86	43	89290	22.00	ug/l	96
44) Isopropyl Acetate	6.47	43	143553	21.11	ug/l	100
45) 1,4-Dioxane	7.76	88	28516	428.03	ug/l #	89
46) Methyl methacrylate	7.78	41	74415	21.42	ug/l	98
47) n-amyl Acetate	10.90	43	132476	20.64	ug/l #	90
48) t-1,3-Dichloropropene	8.44	75	93023	21.19	ug/l	98
49) cis-1,3-Dichloropropene	9.04	75	85744	20.91	ug/l	96
50) 1,1,2-Trichloroethane	9.22	97	62190	21.18	ug/l	99
51) Ethyl methacrylate	9.18	69	92922	20.97	ug/l	97
52) 1,3-Dichloropropane	9.37	76	103699	21.62	ug/l	99
53) Dibromochloromethane	9.59	129	63273	20.30	ug/l	100
54) 1,2-Dibromoethane	9.68	107	65466	21.16	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	245033	116.41	ug/l	99
56) Bromoform	10.86	173	47987	19.29	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	473153	109.60	ug/l	98
59) 2-Hexanone	9.50	43	366115	110.94	ug/l	100
61) Tetrachloroethene	9.34	164	77614	22.24	ug/l	98
62) Toluene	8.79	91	268758	21.93	ug/l	99
64) Chlorobenzene	10.14	112	180206	22.13	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	64552	21.63	ug/l	99
66) Ethyl Benzene	10.26	91	303635	22.00	ug/l	100
67) m/p-Xylenes	10.36	106	235377	43.88	ug/l	99
68) o-Xylene	10.70	106	113729	21.76	ug/l	98
69) Styrene	10.71	104	190953	21.90	ug/l	98
70) Isopropylbenzene	11.02	105	314606	21.83	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	93280	21.65	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	81035m	21.70	ug/l	
73) Bromobenzene	11.26	156	87036	21.72	ug/l	93
74) n-propylbenzene	11.37	91	373535	22.33	ug/l	99
75) 2-Chlorotoluene	11.43	91	214321	22.01	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	265880	21.73	ug/l	98
77) t-1,4-Dichloro-2-butene	11.08	75	24732	20.59	ug/l	87
78) 4-Chlorotoluene	11.51	91	255682	22.17	ug/l	99
79) tert-butylbenzene	12.07	119	298558	22.12	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	273295	21.87	ug/l	98
81) sec-Butylbenzene	11.95	105	328521	21.95	ug/l	99
82) p-Isopropyltoluene	12.07	119	298558	22.12	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	163223	22.13	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	164274	22.05	ug/l	99
85) n-Butylbenzene	12.39	91	264462	22.11	ug/l	99
86) Hexachloroethane	12.60	117	41505	20.29	ug/l	94
87) 1,2-Dichlorobenzene	12.40	146	161691	21.71	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	19341	20.10	ug/l	94
89) 1,2,4-Trichlorobenzene	13.65	180	125268	22.28	ug/l	99
90) Hexachlorobutadiene	13.79	225	66733	22.80	ug/l	100
91) Naphthalene	13.84	128	331539	22.25	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	124493	22.26	ug/l	99

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

