

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071218\
 Data File : VX003347.D
 Acq On : 12 Jul 2018 12:57
 Operator : JC/MD
 Sample : VSTDIC150
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC150

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 11:35:50 AM

Quant Time: Jul 12 13:18:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 12 13:04:19 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	56431	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	326192	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	296895	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	119614	27.76	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	92.53%
60) 4-Bromofluorobenzene	11.14	95	148217	30.23	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.77%
63) Toluene-d8	8.72	98	398233	30.71	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.37%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	680806	252.767	ug/l 99
3) Chloromethane	1.32	50	629508	215.293	ug/l 98
4) Vinyl Chloride	1.40	62	701138	215.209	ug/l 99
5) Bromomethane	1.64	94	280421	147.331	ug/l 96
6) Chloroethane	1.70	64	419316	191.374	ug/l 98
7) Trichlorofluoromethane	1.92	101	940953	162.488	ug/l 98
8) Diethyl Ether	2.19	74	392339	190.015	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	2.37	101	585216	176.566	ug/l 98
10) 1,1-Dichloroethene	2.37	96	548243	187.920	ug/l 93
11) Methyl Iodide	2.51	142	790797	235.373	ug/l 91
12) Methyl Acetate	2.78	43	905529	191.267	ug/l 94
13) Acrolein	2.30	56	318083	944.952	ug/l 100
14) Acrylonitrile	3.16	53	1629324	915.021	ug/l 99
15) Acetone	2.46	58	439564	888.126	ug/l 79
16) Carbon Disulfide	2.56	76	1599940	219.029	ug/l 100
17) Allyl chloride	2.72	41	1032019	177.767	ug/l 89
18) Methylene Chloride	2.86	84	618165	185.125	ug/l 99
19) trans-1,2-Dichloroethene	3.16	96	574526	183.656	ug/l 93
20) Diisopropyl ether	3.88	45	1786769	165.173	ug/l 97
21) 1,1-Dichloroethane	3.69	63	1082051	186.021	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	613801	182.538	ug/l # 74
23) tert-Butyl Alcohol	3.10	59	677781	838.382	ug/l # 100
24) Methyl tert-Butyl Ether	3.21	73	1831620	168.154	ug/l # 90
25) Chloroform	5.22	83	1007931	172.668	ug/l 97
26) Cyclohexane	5.57	56	893647	180.833	ug/l # 94
29) 1,1-Dichloropropene	5.81	75	779076	176.859	ug/l 100
30) 2-Butanone	4.71	43	2025756	803.672	ug/l 93
31) 2,2-Dichloropropane	4.59	77	780207	165.723	ug/l 100
32) 1,1,1-Trichloroethane	5.50	97	868325	163.178	ug/l 97
33) Carbon Tetrachloride	5.79	117	760198	158.939	ug/l 95
34) Benzene	6.15	78	2192584	168.072	ug/l 98
35) Methacrylonitrile	5.07	41	446626	162.743	ug/l 92
36) 1,2-Dichloroethane	6.20	62	746979	145.844	ug/l 97
37) Trichloroethene	7.21	130	615351	161.052	ug/l 95
38) Methylcyclohexane	7.46	83	872394	162.782	ug/l 96
39) 1,2-Dichloropropane	7.52	63	569654	167.403	ug/l 98
40) Dibromomethane	7.67	93	372826	157.696	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	731072	164.616	ug/l	97
42) Vinyl Acetate	3.83	43	7451257	779.449	ug/l	97
43) Ethyl Acetate	4.87	43	782439	162.301	ug/l	97
44) Isopropyl Acetate	6.47	43	1250518	154.814	ug/l	95
45) 1,4-Dioxane	7.76	88	258236	3263.364	ug/l #	82
46) Methyl methacrylate	7.78	41	658639	159.580	ug/l	90
47) n-amyl Acetate	10.90	43	1161001	152.322	ug/l #	90
48) t-1,3-Dichloropropene	8.44	75	910362	174.607	ug/l	99
49) cis-1,3-Dichloropropene	9.05	75	855799m	175.744	ug/l	
50) 1,1,2-Trichloroethane	9.22	97	563813	161.676	ug/l	98
51) Ethyl methacrylate	9.18	69	883975	167.922	ug/l	87
52) 1,3-Dichloropropane	9.38	76	933077	163.812	ug/l	99
53) Dibromochloromethane	9.59	129	617134	166.698	ug/l	100
54) 1,2-Dibromoethane	9.68	107	594035	161.641	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	2151022	860.318	ug/l	99
56) Bromoform	10.86	173	500313	169.284	ug/l	100
58) 4-Methyl-2-Pentanone	8.66	43	3980745	789.706	ug/l	92
59) 2-Hexanone	9.51	43	3036729	788.060	ug/l	91
61) Tetrachloroethene	9.34	164	639121	156.854	ug/l	99
62) Toluene	8.79	91	2428729	169.711	ug/l	100
64) Chlorobenzene	10.14	112	1603041	168.594	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	590763	169.506	ug/l	99
66) Ethyl Benzene	10.26	91	2736917	169.812	ug/l	99
67) m/p-Xylenes	10.37	106	2147193	342.818	ug/l	95
68) o-Xylene	10.70	106	1041529	170.680	ug/l	97
69) Styrene	10.71	104	1739138	170.829	ug/l	97
70) Isopropylbenzene	11.02	105	2759792	164.014	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	865854	172.134	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	1037067	237.833	ug/l	94
73) Bromobenzene	11.26	156	764386	163.351	ug/l	96
74) n-propylbenzene	11.37	91	3210921	164.385	ug/l	98
75) 2-Chlorotoluene	11.43	91	1912908	168.280	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	2395154	167.640	ug/l	98
77) t-1,4-Dichloro-2-butene	11.08	75	276719	197.313	ug/l	94
78) 4-Chlorotoluene	11.51	91	2272955	168.784	ug/l	98
79) tert-butylbenzene	12.07	119	2605814	165.366	ug/l	97
80) 1,2,4-Trimethylbenzene	11.81	105	2486708	170.447	ug/l	97
81) sec-Butylbenzene	11.95	105	2878767	164.713	ug/l	99
82) p-Isopropyltoluene	12.07	119	2605814	165.366	ug/l	97
83) 1,3-Dichlorobenzene	12.03	146	1461264	169.696	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	1470748	169.103	ug/l	99
85) n-Butylbenzene	12.39	91	2306434	165.124	ug/l	98
86) Hexachloroethane	12.60	117	423065	177.127	ug/l	97
87) 1,2-Dichlorobenzene	12.40	146	1454757	167.287	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	192400	171.224	ug/l	92
89) 1,2,4-Trichlorobenzene	13.65	180	1021240	155.582	ug/l	100
90) Hexachlorobutadiene	13.79	225	494845	144.808	ug/l	99
91) Naphthalene	13.84	128	3006062	172.774	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	993464	152.123	ug/l	99

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

