

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100218\
 Data File : VX004917.D
 Acq On : 02 Oct 2018 13:45
 Operator : JC/MD
 Sample : VX1002WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1002WBS01

Manual Integrations
 APPROVED

MMDadoda
 10/3/2018 4:23:28 PM

Quant Time: Oct 03 08:15:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X100218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 03 04:49:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	50554	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	268081	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	254532	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	110672	28.81	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.03%
60) 4-Bromofluorobenzene	11.14	95	123732	29.25	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.50%
63) Toluene-d8	8.71	98	346581	30.50	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	80763	20.519	ug/l 99
3) Chloromethane	1.32	50	87660	21.466	ug/l 99
4) Vinyl Chloride	1.40	62	83554	20.014	ug/l 99
5) Bromomethane	1.64	94	37898	18.918	ug/l 100
6) Chloroethane	1.72	64	48459	20.218	ug/l 98
7) Trichlorofluoromethane	1.93	101	105858	19.906	ug/l 99
8) Diethyl Ether	2.19	74	41687	19.229	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.39	101	61416	20.110	ug/l 99
10) 1,1-Dichloroethene	2.37	96	56322	19.470	ug/l 98
11) Methyl Iodide	2.51	142	36603	20.901	ug/l 99
12) Methyl Acetate	2.78	43	115017	19.718	ug/l 99
13) Acrolein	2.29	56	47891	88.861	ug/l 97
14) Acrylonitrile	3.15	53	229646	96.338	ug/l 100
15) Acetone	2.45	58	69876	87.693	ug/l 100
16) Carbon Disulfide	2.57	76	165680	19.528	ug/l 100
17) Allyl chloride	2.73	41	126982	19.740	ug/l 99
18) Methylene Chloride	2.85	84	65166	19.371	ug/l 98
19) trans-1,2-Dichloroethene	3.16	96	60593	19.606	ug/l 97
20) Diisopropyl ether	3.87	45	218535	19.925	ug/l 99
21) 1,1-Dichloroethane	3.70	63	119988	19.856	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	65328	19.109	ug/l 98
23) tert-Butyl Alcohol	3.07	59	110087	100.055	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	206274	19.404	ug/l 100
25) Chloroform	5.21	83	110276	19.390	ug/l 97
26) Cyclohexane	5.57	56	103006	19.862	ug/l # 99
29) 1,1-Dichloropropene	5.79	75	82633	20.830	ug/l 99
30) 2-Butanone	4.70	43	316578	98.155	ug/l 100
31) 2,2-Dichloropropane	4.58	77	88307	20.289	ug/l 99
32) 1,1,1-Trichloroethane	5.49	97	93599	20.525	ug/l 99
33) Carbon Tetrachloride	5.78	117	81205	20.276	ug/l 99
34) Benzene	6.14	78	247234	20.538	ug/l 98
35) Methacrylonitrile	5.06	41	60424	20.159	ug/l 97
36) 1,2-Dichloroethane	6.20	62	89313	20.594	ug/l 99
37) Trichloroethene	7.21	130	65534	20.667	ug/l 97
38) Methylcyclohexane	7.46	83	96801	20.553	ug/l 100
39) 1,2-Dichloropropane	7.52	63	66307	20.672	ug/l 99
40) Dibromomethane	7.66	93	42917	20.644	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	81136	20.245	ug/l	99
42) Vinyl Acetate	3.82	43	1017970	109.094	ug/l	100
43) Ethyl Acetate	4.85	43	110440	20.758	ug/l	99
44) Isopropyl Acetate	6.46	43	155688	19.609	ug/l	100
45) 1,4-Dioxane	7.76	88	38827	415.083	ug/l	98
46) Methyl methacrylate	7.77	41	82473	20.021	ug/l	97
47) n-amyl Acetate	10.90	43	137724	18.801	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	89793	19.584	ug/l	97
49) cis-1,3-Dichloropropene	8.44	75	99141	19.949	ug/l	99
50) 1,1,2-Trichloroethane	9.22	97	64543	20.506	ug/l	99
51) Ethyl methacrylate	9.18	69	96866	19.392	ug/l	100
52) 1,3-Dichloropropane	9.37	76	106636	20.082	ug/l	100
53) Dibromochloromethane	9.59	129	64497	19.751	ug/l	100
54) 1,2-Dibromoethane	9.67	107	65660	20.018	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	265995	100.918	ug/l	99
56) Bromoform	10.86	173	51103	18.739	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	565718	98.989	ug/l	98
59) 2-Hexanone	9.49	43	448653	95.285	ug/l	100
61) Tetrachloroethene	9.34	164	64299	20.758	ug/l	98
62) Toluene	8.79	91	271267	20.279	ug/l	99
64) Chlorobenzene	10.14	112	172568	19.976	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	61812	19.683	ug/l	99
66) Ethyl Benzene	10.26	91	289400	19.817	ug/l	100
67) m/p-Xylenes	10.36	106	227688	40.042	ug/l	97
68) o-Xylene	10.70	106	108178	19.736	ug/l	98
69) Styrene	10.71	104	177283	19.235	ug/l	99
70) Isopropylbenzene	11.02	105	295917	20.162	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	102769	18.851	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	95272m	19.183	ug/l	
73) Bromobenzene	11.26	156	78504	19.458	ug/l	99
74) n-propylbenzene	11.36	91	346236	20.049	ug/l	99
75) 2-Chlorotoluene	11.42	91	207779	19.728	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	251904	19.891	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	28233	17.290	ug/l	98
78) 4-Chlorotoluene	11.51	91	239998	19.604	ug/l	99
79) tert-butylbenzene	12.07	119	268483	19.976	ug/l	100
80) 1,2,4-Trimethylbenzene	11.81	105	257290	19.922	ug/l	100
81) sec-Butylbenzene	11.94	105	298210	19.949	ug/l	100
82) p-Isopropyltoluene	12.07	119	268483	19.976	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	145507	19.503	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	146791	19.388	ug/l	100
85) n-Butylbenzene	12.39	91	236528	19.376	ug/l	99
86) Hexachloroethane	12.60	117	40940	18.493	ug/l	99
87) 1,2-Dichlorobenzene	12.39	146	145642	19.204	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.00	75	23314	18.507	ug/l	97
89) 1,2,4-Trichlorobenzene	13.65	180	107895	19.071	ug/l	100
90) Hexachlorobutadiene	13.79	225	55622	19.915	ug/l	98
91) Naphthalene	13.83	128	329637	18.739	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	111454	19.212	ug/l	99

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

