

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102819\
 Data File : VX013248.D
 Acq On : 28 Oct 2019 15:16
 Operator : JC/SP
 Sample : VX1028WBSD02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX1028WBSD02

Manual Integrations
 APPROVED

MMDadoda
 10/30/2019 12:07:46 PM

Quant Time: Oct 29 14:32:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 22 01:53:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	22668	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	124860	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	112275	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	54788	30.70	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.33%
60) 4-Bromofluorobenzene	11.14	95	59130	30.24	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.80%
63) Toluene-d8	8.71	98	153817	30.80	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	29833	18.331 ug/l	96
3) Chloromethane	1.32	50	22896	16.137 ug/l	96
4) Vinyl Chloride	1.40	62	24580	16.756 ug/l	98
5) Bromomethane	1.63	94	15724	19.864 ug/l	97
6) Chloroethane	1.72	64	16618	17.752 ug/l #	87
7) Trichlorofluoromethane	1.92	101	44474	18.865 ug/l	98
8) Diethyl Ether	2.18	74	14362	17.849 ug/l	93
9) 1,1,2-Trichlorotrifluoroet	2.37	101	25939	18.015 ug/l	98
10) 1,1-Dichloroethene	2.36	96	23661	17.015 ug/l	91
11) Methyl Iodide	2.50	142	26974	15.061 ug/l	99
12) Methyl Acetate	2.76	43	32726	18.224 ug/l	94
13) Acrolein	2.28	56	27076	101.290 ug/l	99
14) Acrylonitrile	3.13	53	64977	86.522 ug/l	100
15) Acetone	2.43	58	20896	84.455 ug/l	98
16) Carbon Disulfide	2.56	76	61197	16.479 ug/l	99
17) Allyl chloride	2.72	41	37318	16.871 ug/l	90
18) Methylene Chloride	2.85	84	27904	17.330 ug/l	94
19) trans-1,2-Dichloroethene	3.15	96	26759	18.134 ug/l	91
20) Diisopropyl ether	3.84	45	74687	17.457 ug/l	99
21) 1,1-Dichloroethane	3.69	63	47745	18.380 ug/l	98
22) cis-1,2-Dichloroethene	4.59	96	30417	18.076 ug/l	100
23) tert-Butyl Alcohol	3.03	59	33526	84.734 ug/l #	100
24) Methyl tert-Butyl Ether	3.19	73	86820	18.103 ug/l	98
25) Chloroform	5.20	83	51039	18.698 ug/l	99
26) Cyclohexane	5.57	56	38195	16.758 ug/l #	96
29) 1,1-Dichloropropene	5.79	75	36396	18.764 ug/l	89
30) 2-Butanone	4.66	43	92578	90.989 ug/l	99
31) 2,2-Dichloropropane	4.58	77	42817	19.093 ug/l	99
32) 1,1,1-Trichloroethane	5.48	97	46369	19.755 ug/l	100
33) Carbon Tetrachloride	5.78	117	39654	19.656 ug/l	97
34) Benzene	6.14	78	103933	18.612 ug/l	98
35) Methacrylonitrile	5.03	41	19217m	18.417 ug/l	
36) 1,2-Dichloroethane	6.18	62	42538	20.152 ug/l	99
37) Trichloroethene	7.20	130	29379	18.968 ug/l	99
38) Methylcyclohexane	7.46	83	42624	18.018 ug/l	97
39) 1,2-Dichloropropane	7.51	63	25855	18.864 ug/l	99
40) Dibromomethane	7.65	93	18578	18.976 ug/l	98

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Quant Time: Oct 29 14:32:34 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	38638	19.573	ug/l	96
42) Vinyl Acetate	3.80	43	323717	91.749	ug/l	99
43) Ethyl Acetate	4.83	43	35356	19.052	ug/l	96
44) Isopropyl Acetate	6.43	43	56916	18.249	ug/l	99
45) 1,4-Dioxane	7.73	88	14005	355.065	ug/l	97
46) Methyl methacrylate	7.76	41	27177	17.708	ug/l	94
47) n-amyl Acetate	10.89	43	45805	17.422	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	39732	18.349	ug/l	95
49) cis-1,3-Dichloropropene	8.43	75	43395	18.418	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	27714	19.169	ug/l	97
51) Ethyl methacrylate	9.17	69	42378	18.694	ug/l	95
52) 1,3-Dichloropropane	9.37	76	45955	18.875	ug/l	100
53) Dibromochloromethane	9.58	129	30207	19.369	ug/l	98
54) 1,2-Dibromoethane	9.67	107	29501	19.084	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	89214	96.879	ug/l	99
56) Bromoform	10.85	173	20851	18.845	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	173090	91.491	ug/l	98
59) 2-Hexanone	9.48	43	133384	89.961	ug/l	99
61) Tetrachloroethene	9.33	164	29966	20.133	ug/l	95
62) Toluene	8.78	91	114070	18.821	ug/l	99
64) Chlorobenzene	10.14	112	72510	18.658	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	28646	19.678	ug/l	99
66) Ethyl Benzene	10.25	91	130262	18.674	ug/l	100
67) m/p-Xylenes	10.35	106	97763	36.875	ug/l	96
68) o-Xylene	10.70	106	46132	18.228	ug/l	99
69) Styrene	10.71	104	81923	18.810	ug/l	99
70) Isopropylbenzene	11.01	105	131475	18.932	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	38816	18.240	ug/l	96
72) 1,2,3-Trichloropropane	11.29	75	33088m	17.902	ug/l	
73) Bromobenzene	11.25	156	30865	18.520	ug/l	100
74) n-propylbenzene	11.35	91	140759	18.466	ug/l	99
75) 2-Chlorotoluene	11.42	91	89730	18.813	ug/l	100
76) 1,3,5-Trimethylbenzene	11.50	105	112827	19.354	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	12026	16.758	ug/l	97
78) 4-Chlorotoluene	11.51	91	103940	19.072	ug/l	97
79) tert-butylbenzene	11.76	119	98520	17.551	ug/l	97
80) 1,2,4-Trimethylbenzene	11.80	105	113163	19.431	ug/l	97
81) sec-Butylbenzene	11.94	105	122080	18.255	ug/l	97
82) p-Isopropyltoluene	12.06	119	114170	18.672	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	56088	18.428	ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	53998	17.939	ug/l	97
85) n-Butylbenzene	12.39	91	90627	17.449	ug/l	98
86) Hexachloroethane	12.59	117	18541	17.373	ug/l	93
87) 1,2-Dichlorobenzene	12.39	146	55029	18.638	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.99	75	9877	18.836	ug/l	98
89) 1,2,4-Trichlorobenzene	13.64	180	31449	17.127	ug/l	96
90) Hexachlorobutadiene	13.78	225	17250	18.503	ug/l	99
91) Naphthalene	13.83	128	104118	17.432	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	33153	17.623	ug/l	98

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

