

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112219\
 Data File : VX013524.D
 Acq On : 22 Nov 2019 11:42
 Operator : JC/SP
 Sample : VX1122WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 Client Sampled :
 VX1122WBS01

Manual Integrations
 APPROVED

MMDadoda
 11/25/2019 10:40:26 AM

Quant Time: Nov 22 14:21:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 12 01:16:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	114320	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	658339	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	590786	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	249407	29.54	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.47%
60) 4-Bromofluorobenzene	11.13	95	280196	29.51	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.37%
63) Toluene-d8	8.71	98	799163	29.91	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	178673	20.860	ug/l 100
3) Chloromethane	1.32	50	188366	20.178	ug/l 98
4) Vinyl Chloride	1.40	62	215359	20.303	ug/l 99
5) Bromomethane	1.62	94	118034	18.510	ug/l 96
6) Chloroethane	1.72	64	117916	20.223	ug/l 99
7) Trichlorofluoromethane	1.92	101	232528	20.363	ug/l 97
8) Diethyl Ether	2.17	74	106536	20.432	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.37	101	142807	20.786	ug/l 99
10) 1,1-Dichloroethene	2.36	96	139525	19.762	ug/l 97
11) Methyl Iodide	2.50	142	144524	16.578	ug/l 99
12) Methyl Acetate	2.76	43	247393	19.997	ug/l 97
13) Acrolein	2.28	56	124262	94.556	ug/l 96
14) Acrylonitrile	3.12	53	436369	95.917	ug/l 98
15) Acetone	2.43	58	143833	104.388	ug/l 97
16) Carbon Disulfide	2.56	76	370718	18.825	ug/l 100
17) Allyl chloride	2.72	41	248370	19.102	ug/l 98
18) Methylene Chloride	2.84	84	159377	19.896	ug/l 99
19) trans-1,2-Dichloroethene	3.16	96	152370	20.193	ug/l 98
20) Diisopropyl ether	3.84	45	503519	20.129	ug/l 91
21) 1,1-Dichloroethane	3.68	63	272467	19.998	ug/l 98
22) cis-1,2-Dichloroethene	4.58	96	175675	20.420	ug/l 97
23) tert-Butyl Alcohol	3.03	59	194819	88.983	ug/l 100
24) Methyl tert-Butyl Ether	3.18	73	463272	19.826	ug/l 100
25) Chloroform	5.19	83	264663	19.845	ug/l 96
26) Cyclohexane	5.57	56	250966	20.284	ug/l # 100
29) 1,1-Dichloropropene	5.78	75	203304	20.218	ug/l 99
30) 2-Butanone	4.65	43	664897	100.179	ug/l 100
31) 2,2-Dichloropropane	4.57	77	219313	20.139	ug/l 99
32) 1,1,1-Trichloroethane	5.48	97	224276	20.067	ug/l 99
33) Carbon Tetrachloride	5.77	117	191474	19.724	ug/l 98
34) Benzene	6.13	78	620862	20.356	ug/l 98
35) Methacrylonitrile	5.03	41	131004	19.765	ug/l 97
36) 1,2-Dichloroethane	6.18	62	212591	19.913	ug/l 99
37) Trichloroethene	7.20	130	168123	20.576	ug/l 91
38) Methylcyclohexane	7.45	83	256519	20.805	ug/l 99
39) 1,2-Dichloropropane	7.50	63	161819	20.519	ug/l 97
40) Dibromomethane	7.65	93	102467	19.524	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	198177	19.343	ug/l	100
42) Vinyl Acetate	3.80	43	1982154	94.857	ug/l	100
43) Ethyl Acetate	4.81	43	235042	19.417	ug/l	97
44) Isopropyl Acetate	6.43	43	374070	19.224	ug/l	100
45) 1,4-Dioxane	7.73	88	78173	363.881	ug/l	99
46) Methyl methacrylate	7.76	41	186647	19.283	ug/l	96
47) n-amyl Acetate	10.89	43	320884	18.800	ug/l	100
48) t-1,3-Dichloropropene	9.03	75	218084	18.983	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	246703	19.598	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	157129	20.232	ug/l	99
51) Ethyl methacrylate	9.17	69	248735	19.452	ug/l	97
52) 1,3-Dichloropropane	9.37	76	266314	20.059	ug/l	100
53) Dibromochloromethane	9.57	129	160825	19.539	ug/l	97
54) 1,2-Dibromoethane	9.67	107	166852	20.092	ug/l	99
55) 2-Chloroethyl vinyl ether	8.30	63	496905	90.947	ug/l	100
56) Bromoform	10.85	173	120879	18.454	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	1208492	97.920	ug/l	99
59) 2-Hexanone	9.48	43	959790	98.288	ug/l	100
61) Tetrachloroethene	9.33	164	180372	24.759	ug/l	95
62) Toluene	8.78	91	668697	20.320	ug/l	99
64) Chlorobenzene	10.14	112	418648	20.346	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.21	131	153397	19.917	ug/l	98
66) Ethyl Benzene	10.25	91	728775	20.159	ug/l	96
67) m/p-Xylenes	10.36	106	568374	40.757	ug/l	99
68) o-Xylene	10.70	106	275438	20.466	ug/l	96
69) Styrene	10.71	104	453411	19.729	ug/l	98
70) Isopropylbenzene	11.01	105	729643	20.574	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	243935	19.210	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	236157m	22.026	ug/l	
73) Bromobenzene	11.25	156	188045	20.107	ug/l	97
74) n-propylbenzene	11.35	91	821294	20.378	ug/l	99
75) 2-Chlorotoluene	11.42	91	487669	20.348	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	604568	20.281	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	77300	17.831	ug/l	97
78) 4-Chlorotoluene	11.51	91	553215	20.147	ug/l	100
79) tert-butylbenzene	11.76	119	583480	19.400	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	603773	20.325	ug/l	100
81) sec-Butylbenzene	11.94	105	704762	20.538	ug/l	100
82) p-Isopropyltoluene	12.06	119	644857	20.397	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	324380	19.728	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	325260	19.929	ug/l	99
85) n-Butylbenzene	12.39	91	542853	19.894	ug/l	99
86) Hexachloroethane	12.59	117	112275	19.352	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	331434	20.158	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.99	75	52894	18.627	ug/l	98
89) 1,2,4-Trichlorobenzene	13.64	180	218298	19.256	ug/l	96
90) Hexachlorobutadiene	13.78	225	111111	20.454	ug/l	98
91) Naphthalene	13.83	128	694692	19.354	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	226201	19.744	ug/l	99

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

