

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022820\
 Data File : VX015053.D
 Acq On : 28 Feb 2020 10:52
 Operator : JC/SP
 Sample : VX0228WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0228WBS01

Manual Integrations
 APPROVED

MMDadoda
 3/2/2020 11:32:18 AM

Quant Time: Feb 28 23:41:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X022120W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 22 00:37:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	67024	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	359358	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	341305	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	129602	27.81	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	92.70%
60) 4-Bromofluorobenzene	11.13	95	165843	31.20	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	104.00%
63) Toluene-d8	8.71	98	443871	29.82	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	60100	20.080	ug/l 98
3) Chloromethane	1.32	50	86820	22.434	ug/l 99
4) Vinyl Chloride	1.40	62	86093	20.670	ug/l 99
5) Bromomethane	1.64	94	58956	20.213	ug/l 100
6) Chloroethane	1.72	64	58169	20.849	ug/l 97
7) Trichlorofluoromethane	1.93	101	117891	19.448	ug/l 97
8) Diethyl Ether	2.18	74	51493	20.193	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.38	101	71152	20.302	ug/l 97
10) 1,1-Dichloroethene	2.37	96	69766	19.801	ug/l 99
11) Methyl Iodide	2.50	142	67813	15.840	ug/l 98
12) Methyl Acetate	2.76	43	94663	21.591	ug/l 96
13) Acrolein	2.28	56	78459	89.979	ug/l 99
14) Acrylonitrile	3.13	53	215961	109.069	ug/l 99
15) Acetone	2.43	58	66048	93.208	ug/l 89
16) Carbon Disulfide	2.56	76	180175	19.019	ug/l 99
17) Allyl chloride	2.72	41	127555	20.812	ug/l 92
18) Methylene Chloride	2.85	84	81128	19.985	ug/l 98
19) trans-1,2-Dichloroethene	3.15	96	76203	19.691	ug/l 98
20) Diisopropyl ether	3.84	45	262130	20.942	ug/l 98
21) 1,1-Dichloroethane	3.69	63	137230	20.000	ug/l 97
22) cis-1,2-Dichloroethene	4.58	96	88192	19.914	ug/l 99
23) tert-Butyl Alcohol	3.01	59	78559	100.089	ug/l # 99
24) Methyl tert-Butyl Ether	3.18	73	228004	19.451	ug/l 96
25) Chloroform	5.20	83	132010	19.078	ug/l 94
26) Cyclohexane	5.57	56	123078	20.070	ug/l # 98
29) 1,1-Dichloropropene	5.79	75	103179	20.299	ug/l 99
30) 2-Butanone	4.65	43	303079	103.303	ug/l 99
31) 2,2-Dichloropropane	4.57	77	104498	18.723	ug/l 98
32) 1,1,1-Trichloroethane	5.48	97	111856	19.378	ug/l 98
33) Carbon Tetrachloride	5.78	117	97264	19.249	ug/l 95
34) Benzene	6.13	78	321491	20.961	ug/l 98
35) Methacrylonitrile	5.03	41	61842	20.664	ug/l 95
36) 1,2-Dichloroethane	6.18	62	104923	19.327	ug/l 95
37) Trichloroethene	7.20	130	90200	20.946	ug/l 94
38) Methylcyclohexane	7.45	83	129353	20.531	ug/l 99
39) 1,2-Dichloropropane	7.51	63	84764	21.471	ug/l 97
40) Dibromomethane	7.65	93	53332	20.231	ug/l 96

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	104394	20.047	ug/l	98
42) Vinyl Acetate	3.80	43	1078917	104.479	ug/l	99
43) Ethyl Acetate	4.81	43	116743	21.992	ug/l	97
44) Isopropyl Acetate	6.43	43	185600	20.798	ug/l	99
45) 1,4-Dioxane	7.73	88	37843	458.932	ug/l	99
46) Methyl methacrylate	7.76	41	90422	20.481	ug/l	96
47) n-amyl Acetate	10.89	43	161595	20.902	ug/l	98
48) t-1,3-Dichloropropene	9.03	75	114317	19.786	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	127025	19.970	ug/l	94
50) 1,1,2-Trichloroethane	9.21	97	83484	21.256	ug/l	95
51) Ethyl methacrylate	9.17	69	124007	20.457	ug/l	96
52) 1,3-Dichloropropane	9.36	76	140018	21.074	ug/l	100
53) Dibromochloromethane	9.57	129	87235	20.544	ug/l	100
54) 1,2-Dibromoethane	9.67	107	86470	20.737	ug/l	99
55) 2-Chloroethyl vinyl ether	8.30	63	324030	100.348	ug/l	99
56) Bromoform	10.85	173	68435	20.559	ug/l	98
58) 4-Methyl-2-Pentanone	8.63	43	591714	105.785	ug/l	99
59) 2-Hexanone	9.48	43	453614	103.791	ug/l	99
61) Tetrachloroethene	9.33	164	91385	19.935	ug/l	94
62) Toluene	8.78	91	346993	19.849	ug/l	99
64) Chlorobenzene	10.13	112	220743	19.782	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.21	131	80160	19.394	ug/l	99
66) Ethyl Benzene	10.24	91	383746	19.927	ug/l	98
67) m/p-Xylenes	10.35	106	296206	39.888	ug/l	99
68) o-Xylene	10.69	106	145354	20.230	ug/l	100
69) Styrene	10.71	104	248257	20.230	ug/l	99
70) Isopropylbenzene	11.01	105	395483	20.721	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	131675	21.428	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	109172m	21.418	ug/l	
73) Bromobenzene	11.25	156	103577	20.084	ug/l	95
74) n-propylbenzene	11.35	91	460506	21.200	ug/l	100
75) 2-Chlorotoluene	11.42	91	271812	21.174	ug/l	100
76) 1,3,5-Trimethylbenzene	11.50	105	328657	20.547	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	40641	19.773	ug/l	97
78) 4-Chlorotoluene	11.51	91	307667	20.720	ug/l	100
79) tert-butylbenzene	11.76	119	316436	20.477	ug/l	100
80) 1,2,4-Trimethylbenzene	11.80	105	328679	20.669	ug/l	99
81) sec-Butylbenzene	11.94	105	390119	21.080	ug/l	100
82) p-Isopropyltoluene	12.06	119	354558	20.622	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	184914	20.454	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	184138	20.227	ug/l	98
85) n-Butylbenzene	12.38	91	303649	20.296	ug/l	99
86) Hexachloroethane	12.59	117	60596	19.499	ug/l	96
87) 1,2-Dichlorobenzene	12.38	146	181983	20.230	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.99	75	27384	20.461	ug/l	100
89) 1,2,4-Trichlorobenzene	13.64	180	125652	19.423	ug/l	99
90) Hexachlorobutadiene	13.77	225	64702	20.139	ug/l	98
91) Naphthalene	13.83	128	357475	19.518	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	128784	20.051	ug/l	99

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

