

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031320\
 Data File : VX015278.D
 Acq On : 13 Mar 2020 23:59
 Operator : JC/SP
 Sample : L1161-08 5PPB L00
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT1-2020

Manual Integrations
 APPROVED

MMDadoda
 3/16/2020 2:07:40 PM

Quant Time: Mar 16 09:48:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X031220W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 12 14:12:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	54323	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	285711	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	268209	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	108234	29.53	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.43%
60) 4-Bromofluorobenzene	11.13	95	119585	28.01	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.37%
63) Toluene-d8	8.71	98	335230	29.18	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.27%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	11876	4.347	ug/l 97
3) Chloromethane	1.32	50	15366	3.896	ug/l 97
4) Vinyl Chloride	1.40	62	16632	4.144	ug/l 99
5) Bromomethane	1.64	94	10612	4.058	ug/l 96
6) Chloroethane	1.72	64	10236	4.060	ug/l 95
7) Trichlorofluoromethane	1.92	101	20814	4.067	ug/l 96
8) Diethyl Ether	2.18	74	9483	4.181	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	2.38	101	13123	4.182	ug/l 95
10) 1,1-Dichloroethene	2.37	96	13399	4.235	ug/l 97
11) Methyl Iodide	2.51	142	9929	3.051	ug/l 93
12) Methyl Acetate	2.76	43	18458	4.729	ug/l 96
13) Acrolein	2.29	56	13990	22.699	ug/l 95
14) Acrylonitrile	3.14	53	41485	22.906	ug/l 98
15) Acetone	2.44	58	10451	19.667	ug/l 98
16) Carbon Disulfide	2.56	76	37024	4.179	ug/l 99
17) Allyl chloride	2.72	41	24808	4.227	ug/l 91
18) Methylene Chloride	2.85	84	16646	4.656	ug/l 94
19) trans-1,2-Dichloroethene	3.16	96	16154	4.734	ug/l 96
20) Diisopropyl ether	3.84	45	52515	4.504	ug/l 91
21) 1,1-Dichloroethane	3.69	63	28220	4.568	ug/l 97
22) cis-1,2-Dichloroethene	4.59	96	17799	4.614	ug/l 98
23) tert-Butyl Alcohol	3.05	59	18313	25.863	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	45616m	4.462	ug/l
25) Chloroform	5.20	83	28065	4.775	ug/l 92
26) Cyclohexane	5.58	56	27196	4.737	ug/l # 94
29) 1,1-Dichloropropene	5.79	75	20944	4.777	ug/l 98
30) 2-Butanone	4.67	43	56801	24.192	ug/l # 96
31) 2,2-Dichloropropane	4.57	77	17028	3.780	ug/l 99
32) 1,1,1-Trichloroethane	5.49	97	23758	4.980	ug/l 95
33) Carbon Tetrachloride	5.78	117	20095	4.922	ug/l 97
34) Benzene	6.14	78	68521	5.158	ug/l 97
35) Methacrylonitrile	5.04	41	12235	4.820	ug/l 90
36) 1,2-Dichloroethane	6.19	62	23993	5.414	ug/l 95
37) Trichloroethene	7.20	130	18789	5.114	ug/l 95
38) Methylcyclohexane	7.45	83	22573	4.237	ug/l 99
39) 1,2-Dichloropropane	7.51	63	16269	4.740	ug/l 95
40) Dibromomethane	7.65	93	11352	5.204	ug/l 94

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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	19163	4.442	ug/l	98
42) Vinyl Acetate	3.81	43	203808	22.012	ug/l	100
43) Ethyl Acetate	4.83	43	23351	5.242	ug/l #	75
44) Isopropyl Acetate	6.44	43	36863	4.892	ug/l	98
45) 1,4-Dioxane	7.75	88	8167m	110.356	ug/l	
46) Methyl methacrylate	7.76	41	16172	4.352	ug/l	97
47) n-amyl Acetate	10.89	43	24722	3.656	ug/l	97
48) t-1,3-Dichloropropene	9.04	75	19388	4.133	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	23626	4.435	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	16611	5.150	ug/l	95
51) Ethyl methacrylate	9.17	69	22067	4.385	ug/l	98
52) 1,3-Dichloropropane	9.37	76	27874	5.106	ug/l	99
53) Dibromochloromethane	9.57	129	16224	4.723	ug/l	93
54) 1,2-Dibromoethane	9.67	107	17551	5.275	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	57463	22.797	ug/l	99
56) Bromoform	10.85	173	10744	3.989	ug/l	96
58) 4-Methyl-2-Pentanone	8.64	43	105932	23.200	ug/l	99
59) 2-Hexanone	9.48	43	79824	23.129	ug/l	98
61) Tetrachloroethene	9.33	164	18256	4.890	ug/l	94
62) Toluene	8.78	91	67840	4.780	ug/l	99
64) Chlorobenzene	10.14	112	44977	4.960	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	16051	4.805	ug/l	94
66) Ethyl Benzene	10.25	91	74000	4.680	ug/l	96
67) m/p-Xylenes	10.36	106	56146	9.251	ug/l	99
68) o-Xylene	10.70	106	23314	4.007	ug/l	94
69) Styrene	10.71	104	40083	3.958	ug/l	98
70) Isopropylbenzene	11.01	105	66810	4.314	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.26	83	24406	4.854	ug/l	96
72) 1,2,3-Trichloropropane	11.29	75	22861m	5.555	ug/l	
73) Bromobenzene	11.25	156	19750	4.676	ug/l	98
74) n-propylbenzene	11.35	91	82883	4.530	ug/l	99
75) 2-Chlorotoluene	11.42	91	49323	4.617	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	58968	4.460	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	5683	3.297	ug/l	87
78) 4-Chlorotoluene	11.51	91	57530	4.678	ug/l	98
79) tert-butylbenzene	11.76	119	55798	4.502	ug/l	97
80) 1,2,4-Trimethylbenzene	11.80	105	58071	4.443	ug/l	99
81) sec-Butylbenzene	11.94	105	69087	4.491	ug/l	98
82) p-Isopropyltoluene	12.06	119	61103	4.319	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	35250	4.723	ug/l	95
84) 1,4-Dichlorobenzene	12.09	146	37099	4.970	ug/l	98
85) n-Butylbenzene	12.39	91	52407	4.227	ug/l	100
86) Hexachloroethane	12.59	117	10509	4.244	ug/l	93
87) 1,2-Dichlorobenzene	12.39	146	34531	4.745	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	4331	4.184	ug/l	98
89) 1,2,4-Trichlorobenzene	13.64	180	24403	4.537	ug/l	98
90) Hexachlorobutadiene	13.78	225	12056	4.357	ug/l	97
91) Naphthalene	13.83	128	59530	3.995	ug/l	98
92) 1,2,3-Trichlorobenzene	14.01	180	24316	4.492	ug/l	98

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

