

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022521\
 Data File : VX020910.D
 Acq On : 25 Feb 2021 13:32
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX022521

Manual Integrations
 APPROVED

MMDadoda
 2/26/2021 2:30:49 PM

Quant Time: Feb 25 15:06:21 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022521W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Feb 25 13:26:35 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.976	128	37765	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.823	114	212499	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.094	117	189297	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.029	65	79918	30.05	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	100.17%	
60) 4-Bromofluorobenzene	11.118	95	91972	29.38	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	97.93%	
63) Toluene-d8	8.694	98	251725	29.20	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	97.33%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.187	85	40503	19.05	ug/l	100
3) Chloromethane	1.311	50	43895	19.32	ug/l	96
4) Vinyl Chloride	1.393	62	51916	19.30	ug/l	98
5) Bromomethane	1.628	94	32888	32.47	ug/l	97
6) Chloroethane	1.711	64	33320	19.55	ug/l	95
7) Trichlorofluoromethane	1.917	101	66948	19.27	ug/l	99
8) Diethyl Ether	2.170	74	30420	19.41	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.364	101	42656	19.69	ug/l	98
10) 1,1-Dichloroethene	2.352	96	43233	19.36	ug/l	97
11) Methyl Iodide	2.493	142	52206	18.87	ug/l	93
12) Methyl Acetate	2.746	43	46847	18.97	ug/l	97
13) Acrolein	2.270	56	28630	81.61	ug/l	99
14) Acrylonitrile	3.111	53	117586	95.50	ug/l	100
15) Acetone	2.423	58	37370	100.99	ug/l	100
16) Carbon Disulfide	2.546	76	121583	19.29	ug/l	99
17) Allyl chloride	2.705	41	67328	19.12	ug/l	99
18) Methylene Chloride	2.834	84	48193	19.11	ug/l	92
19) trans-1,2-Dichloroethene	3.140	96	47939	19.36	ug/l	98
20) Diisopropyl ether	3.823	45	137372	19.24	ug/l	96
21) 1,1-Dichloroethane	3.664	63	81837	19.33	ug/l	99
22) cis-1,2-Dichloroethene	4.558	96	55327	19.54	ug/l	96
23) tert-Butyl Alcohol	3.011	59	52194	93.39	ug/l #	100
24) Methyl tert-Butyl Ether	3.164	73	152329	19.46	ug/l	100
25) Chloroform	5.170	83	84483	19.49	ug/l	96
26) Cyclohexane	5.547	56	74121	19.34	ug/l #	99
29) 1,1-Dichloropropene	5.764	75	64514	19.37	ug/l	100
30) 2-Butanone	4.629	43	159234	96.71	ug/l	99
31) 2,2-Dichloropropane	4.546	77	76193	19.83	ug/l	99
32) 1,1,1-Trichloroethane	5.458	97	72751	19.44	ug/l	100
33) Carbon Tetrachloride	5.747	117	61527	18.97	ug/l	98
34) Benzene	6.105	78	195118	19.50	ug/l	99
35) Methacrylonitrile	4.999	41	33499	18.95	ug/l	98
36) 1,2-Dichloroethane	6.158	62	65971	19.61	ug/l	99
37) Trichloroethene	7.182	130	52715	19.47	ug/l	100
38) Methylcyclohexane	7.435	83	83007	19.60	ug/l	97
39) 1,2-Dichloropropane	7.488	63	48059	19.42	ug/l	96
40) Dibromomethane	7.635	93	32685	19.19	ug/l	96
41) Bromodichloromethane	7.876	83	69228	19.47	ug/l	98
42) Vinyl Acetate	3.782	43	586311	95.61	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.788	43	57993	18.53	ug/l	98
44) Isopropyl Acetate	6.405	43	100393	18.93	ug/l	99
45) 1,4-Dioxane	7.712	88	23373	382.58	ug/l	99
46) Methyl methacrylate	7.741	41	50909	19.32	ug/l	97
47) n-amyl Acetate	10.877	43	83268	19.08	ug/l	97
48) t-1,3-Dichloropropene	9.018	75	74983	18.90	ug/l	100
49) cis-1,3-Dichloropropene	8.412	75	82916	19.15	ug/l	97
50) 1,1,2-Trichloroethane	9.194	97	47858	19.13	ug/l	96
51) Ethyl methacrylate	9.159	69	75294	19.25	ug/l	97
52) 1,3-Dichloropropane	9.353	76	83446	19.73	ug/l	98
53) Dibromochloromethane	9.559	129	51170	19.31	ug/l	100
54) 1,2-Dibromoethane	9.653	107	51261	19.74	ug/l	100
55) 2-Chloroethyl vinyl ether	8.288	63	156964	84.93	ug/l	99
56) Bromoform	10.835	173	35570	19.03	ug/l	99
58) 4-Methyl-2-Pentanone	8.618	43	291435	94.03	ug/l	99
59) 2-Hexanone	9.471	43	222576	94.37	ug/l	99
61) Tetrachloroethene	9.318	164	43919	18.82	ug/l	95
62) Toluene	8.765	91	208561	19.18	ug/l	100
64) Chlorobenzene	10.118	112	126471	18.94	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.200	131	45960	18.83	ug/l	97
66) Ethyl Benzene	10.235	91	226495	18.69	ug/l	99
67) m/p-Xylenes	10.341	106	171306	38.06	ug/l	98
68) o-Xylene	10.683	106	81322	18.99	ug/l	95
69) Styrene	10.694	104	144481	19.33	ug/l	99
70) Isopropylbenzene	11.000	105	221876	19.22	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.253	83	69255	19.17	ug/l	100
72) 1,2,3-Trichloropropane	11.277	75	59632m	18.29	ug/l	
73) Bromobenzene	11.236	156	50076	18.56	ug/l	94
74) n-propylbenzene	11.341	91	251761	19.04	ug/l	98
75) 2-Chlorotoluene	11.400	91	152180	19.28	ug/l	98
76) 1,3,5-Trimethylbenzene	11.489	105	185498	19.50	ug/l	99
77) t-1,4-Dichloro-2-butene	11.059	75	24643	18.11	ug/l	94
78) 4-Chlorotoluene	11.494	91	172987	19.22	ug/l	100
79) tert-butylbenzene	11.753	119	180142	19.77	ug/l	98
80) 1,2,4-Trimethylbenzene	11.789	105	184798	19.13	ug/l	99
81) sec-Butylbenzene	11.930	105	213467	19.37	ug/l	100
82) p-Isopropyltoluene	12.047	119	194208	19.48	ug/l	99
83) 1,3-Dichlorobenzene	12.006	146	93658	18.90	ug/l	98
84) 1,4-Dichlorobenzene	12.083	146	89265	18.39	ug/l	95
85) n-Butylbenzene	12.371	91	171491	19.04	ug/l	100
86) Hexachloroethane	12.583	117	34870	18.54	ug/l	88
87) 1,2-Dichlorobenzene	12.377	146	92001	19.68	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.983	75	14855	18.22	ug/l	99
89) 1,2,4-Trichlorobenzene	13.630	180	57021	18.52	ug/l	98
90) Hexachlorobutadiene	13.765	225	25201	20.00	ug/l	93
91) Naphthalene	13.818	128	205769	19.07	ug/l	100
92) 1,2,3-Trichlorobenzene	14.001	180	59838	19.38	ug/l	97

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

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