

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022521\
 Data File : VX020906.D
 Acq On : 25 Feb 2021 10:44
 Operator : JC/MD
 Sample : VSTDIC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC100

Manual Integrations
 APPROVED

MMDadoda
 2/26/2021 2:30:35 PM

Quant Time: Feb 25 11:07:21 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022521W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Feb 25 11:01:33 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.982	128	35603	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.835	114	199258	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.094	117	174926	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.029	65	73928	29.78	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	99.27%	
60) 4-Bromofluorobenzene	11.118	95	87473	29.72	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	99.07%	
63) Toluene-d8	8.694	98	233548	30.39	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	101.30%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.187	85	184228	97.76	ug/l	98
3) Chloromethane	1.311	50	199278	98.68	ug/l	100
4) Vinyl Chloride	1.393	62	241082	103.12	ug/l	99
5) Bromomethane	1.622	94	75473	82.22	ug/l	98
6) Chloroethane	1.699	64	152682	103.46	ug/l	97
7) Trichlorofluoromethane	1.911	101	309714	95.61	ug/l	95
8) Diethyl Ether	2.169	74	140982	103.82	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.358	101	190263	100.88	ug/l	97
10) 1,1-Dichloroethene	2.352	96	199505	103.50	ug/l	95
11) Methyl Iodide	2.487	142	272389	107.76	ug/l	96
12) Methyl Acetate	2.752	43	225607	92.75	ug/l	99
13) Acrolein	2.275	56	183073	530.60	ug/l	98
14) Acrylonitrile	3.117	53	562886	473.21	ug/l	99
15) Acetone	2.422	58	154954	429.07	ug/l	99
16) Carbon Disulfide	2.546	76	556255	104.43	ug/l	100
17) Allyl chloride	2.705	41	317192	100.63	ug/l	98
18) Methylene Chloride	2.834	84	223103	95.21	ug/l	96
19) trans-1,2-Dichloroethene	3.140	96	220236	99.09	ug/l	99
20) Diisopropyl ether	3.829	45	641527	98.82	ug/l	93
21) 1,1-Dichloroethane	3.670	63	382014	98.52	ug/l	100
22) cis-1,2-Dichloroethene	4.558	96	251758	98.41	ug/l	97
23) tert-Butyl Alcohol	3.023	59	253967	448.64	ug/l	100
24) Methyl tert-Butyl Ether	3.170	73	705370	101.46	ug/l	99
25) Chloroform	5.176	83	384716	96.16	ug/l	96
26) Cyclohexane	5.546	56	339305	100.38	ug/l #	98
29) 1,1-Dichloropropene	5.764	75	296721	97.85	ug/l	100
30) 2-Butanone	4.635	43	725428	454.01	ug/l	99
31) 2,2-Dichloropropane	4.546	77	341502	99.37	ug/l	100
32) 1,1,1-Trichloroethane	5.464	97	337030	96.26	ug/l	99
33) Carbon Tetrachloride	5.752	117	289630	96.54	ug/l	98
34) Benzene	6.111	78	897712	97.06	ug/l	100
35) Methacrylonitrile	5.005	41	160915	97.62	ug/l	98
36) 1,2-Dichloroethane	6.158	62	300727	95.15	ug/l	98
37) Trichloroethene	7.188	130	243591	99.58	ug/l	95
38) Methylcyclohexane	7.441	83	376150	102.63	ug/l	98
39) 1,2-Dichloropropane	7.488	63	223781	96.33	ug/l	98
40) Dibromomethane	7.635	93	154030	96.84	ug/l	96
41) Bromodichloromethane	7.876	83	317164	99.53	ug/l	94
42) Vinyl Acetate	3.787	43	2774503	494.65	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.793	43	288083	95.48	ug/l	99
44) Isopropyl Acetate	6.411	43	480538	97.50	ug/l	99
45) 1,4-Dioxane	7.711	88	111803	1867.80	ug/l	99
46) Methyl methacrylate	7.747	41	242208	99.05	ug/l	96
47) n-amyl Acetate	10.882	43	409510	96.41	ug/l	97
48) t-1,3-Dichloropropene	9.023	75	363543	102.01	ug/l	98
49) cis-1,3-Dichloropropene	8.411	75	393514	101.33	ug/l	97
50) 1,1,2-Trichloroethane	9.194	97	223922	94.25	ug/l	99
51) Ethyl methacrylate	9.159	69	360977	98.41	ug/l	98
52) 1,3-Dichloropropane	9.353	76	376959	94.76	ug/l	99
53) Dibromochloromethane	9.565	129	244328	97.13	ug/l	99
54) 1,2-Dibromoethane	9.653	107	234348	93.92	ug/l	96
55) 2-Chloroethyl vinyl ether	8.294	63	940225	502.15	ug/l	99
56) Bromoform	10.841	173	171117	92.91	ug/l	99
58) 4-Methyl-2-Pentanone	8.623	43	1389541	477.73	ug/l	99
59) 2-Hexanone	9.470	43	1044687	459.66	ug/l	99
61) Tetrachloroethene	9.317	164	200894	98.62	ug/l	93
62) Toluene	8.764	91	951651	100.02	ug/l	99
64) Chlorobenzene	10.123	112	579543	97.17	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.206	131	215831	97.55	ug/l	98
66) Ethyl Benzene	10.235	91	1063580	99.59	ug/l	98
67) m/p-Xylenes	10.341	106	803872	200.47	ug/l	95
68) o-Xylene	10.682	106	376920	96.24	ug/l	99
69) Styrene	10.694	104	674471	101.28	ug/l	99
70) Isopropylbenzene	11.000	105	1015613	97.42	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.253	83	327185	92.24	ug/l	99
72) 1,2,3-Trichloropropane	11.277	75	315733m	96.85	ug/l	
73) Bromobenzene	11.241	156	236552	90.19	ug/l	93
74) n-propylbenzene	11.347	91	1175584	97.37	ug/l	99
75) 2-Chlorotoluene	11.406	91	699392	95.58	ug/l	100
76) 1,3,5-Trimethylbenzene	11.488	105	849547	96.52	ug/l	98
77) t-1,4-Dichloro-2-butene	11.059	75	127635	104.43	ug/l	90
78) 4-Chlorotoluene	11.494	91	817537	96.94	ug/l	99
79) tert-butylbenzene	11.753	119	810979	93.19	ug/l	100
80) 1,2,4-Trimethylbenzene	11.788	105	854008	96.01	ug/l	98
81) sec-Butylbenzene	11.930	105	975693	97.48	ug/l	99
82) p-Isopropyltoluene	12.047	119	914090	99.63	ug/l	98
83) 1,3-Dichlorobenzene	12.006	146	451883	94.91	ug/l	98
84) 1,4-Dichlorobenzene	12.083	146	443979	93.32	ug/l	98
85) n-Butylbenzene	12.371	91	819686	101.20	ug/l	98
86) Hexachloroethane	12.577	117	167764	102.56	ug/l	95
87) 1,2-Dichlorobenzene	12.377	146	422495	91.36	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.983	75	74420	95.27	ug/l	97
89) 1,2,4-Trichlorobenzene	13.630	180	290101	94.73	ug/l	97
90) Hexachlorobutadiene	13.765	225	117185	88.37	ug/l	96
91) Naphthalene	13.818	128	999022	98.13	ug/l	99
92) 1,2,3-Trichlorobenzene	14.000	180	284549	94.65	ug/l	99

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

