

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022521\
 Data File : VX020912.D
 Acq On : 25 Feb 2021 14:41
 Operator : JC/MD
 Sample : VX0225WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0225WBS01

Manual Integrations
 APPROVED

MMDadoda
 2/26/2021 2:30:54 PM

Quant Time: Feb 25 15:07:21 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022521W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Feb 25 13:26:35 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.976	128	36674	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.829	114	203337	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.094	117	177292	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.023	65	75883	29.38	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.93%		
60) 4-Bromofluorobenzene	11.118	95	86724	29.57	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.57%		
63) Toluene-d8	8.694	98	242820	30.08	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.27%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.187	85	43118	20.88	ug/l	99
3) Chloromethane	1.311	50	44743	20.28	ug/l	99
4) Vinyl Chloride	1.393	62	54137	20.72	ug/l	97
5) Bromomethane	1.623	94	18406	18.72	ug/l	98
6) Chloroethane	1.699	64	33965	20.52	ug/l	97
7) Trichlorofluoromethane	1.905	101	71818	21.28	ug/l	99
8) Diethyl Ether	2.170	74	31429	20.65	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.358	101	44156	20.99	ug/l	98
10) 1,1-Dichloroethene	2.346	96	45384	20.93	ug/l	97
11) Methyl Iodide	2.487	142	51373	19.12	ug/l	99
12) Methyl Acetate	2.746	43	48992	20.43	ug/l	97
13) Acrolein	2.270	56	28376	83.29	ug/l	98
14) Acrylonitrile	3.111	53	119870	100.25	ug/l	100
15) Acetone	2.423	58	37666	104.82	ug/l	100
16) Carbon Disulfide	2.546	76	128769	21.04	ug/l	100
17) Allyl chloride	2.699	41	69629	20.36	ug/l	98
18) Methylene Chloride	2.829	84	50817	20.75	ug/l	97
19) trans-1,2-Dichloroethene	3.134	96	49604	20.63	ug/l	95
20) Diisopropyl ether	3.823	45	143726	20.73	ug/l	94
21) 1,1-Dichloroethane	3.664	63	85812	20.87	ug/l	100
22) cis-1,2-Dichloroethene	4.552	96	57447	20.90	ug/l	98
23) tert-Butyl Alcohol	3.023	59	53233	98.08	ug/l	100
24) Methyl tert-Butyl Ether	3.164	73	158371	20.83	ug/l	100
25) Chloroform	5.170	83	87212	20.72	ug/l	98
26) Cyclohexane	5.547	56	77188	20.74	ug/l #	97
29) 1,1-Dichloropropene	5.764	75	67943	21.31	ug/l	99
30) 2-Butanone	4.629	43	162442	103.11	ug/l	99
31) 2,2-Dichloropropane	4.541	77	78353	21.31	ug/l	100
32) 1,1,1-Trichloroethane	5.458	97	76467	21.35	ug/l	100
33) Carbon Tetrachloride	5.741	117	64121	20.66	ug/l	98
34) Benzene	6.105	78	203689	21.27	ug/l	99
35) Methacrylonitrile	4.999	41	34031	20.12	ug/l	97
36) 1,2-Dichloroethane	6.153	62	68346	21.24	ug/l	98
37) Trichloroethene	7.182	130	54733	21.13	ug/l	99
38) Methylcyclohexane	7.435	83	86898	21.45	ug/l	98
39) 1,2-Dichloropropane	7.488	63	49406	20.86	ug/l	98
40) Dibromomethane	7.635	93	34027	20.88	ug/l	95
41) Bromodichloromethane	7.870	83	71033	20.88	ug/l	99
42) Vinyl Acetate	3.782	43	606706	103.40	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.794	43	61580	20.56	ug/l	100
44) Isopropyl Acetate	6.406	43	103413	20.37	ug/l	99
45) 1,4-Dioxane	7.712	88	23328	399.05	ug/l	98
46) Methyl methacrylate	7.741	41	51000	20.23	ug/l	97
47) n-amyl Acetate	10.877	43	84487	20.23	ug/l	97
48) t-1,3-Dichloropropene	9.018	75	77759	20.48	ug/l	99
49) cis-1,3-Dichloropropene	8.412	75	86775	20.95	ug/l	97
50) 1,1,2-Trichloroethane	9.194	97	48327	20.19	ug/l	94
51) Ethyl methacrylate	9.159	69	76913	20.55	ug/l	98
52) 1,3-Dichloropropane	9.353	76	85589	21.15	ug/l	98
53) Dibromochloromethane	9.565	129	52499	20.71	ug/l	99
54) 1,2-Dibromoethane	9.653	107	51927	20.89	ug/l	98
55) 2-Chloroethyl vinyl ether	8.288	63	165385	93.52	ug/l	98
56) Bromoform	10.841	173	36900	20.63	ug/l	97
58) 4-Methyl-2-Pentanone	8.618	43	296749	102.23	ug/l	100
59) 2-Hexanone	9.471	43	222596	100.77	ug/l	99
61) Tetrachloroethene	9.312	164	46348	21.21	ug/l	94
62) Toluene	8.765	91	216119	21.22	ug/l	100
64) Chlorobenzene	10.118	112	132621	21.21	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.200	131	49096	21.48	ug/l	100
66) Ethyl Benzene	10.235	91	237131	20.90	ug/l	99
67) m/p-Xylenes	10.341	106	175956	41.74	ug/l	99
68) o-Xylene	10.683	106	86477	21.56	ug/l	97
69) Styrene	10.694	104	145248	20.75	ug/l	100
70) Isopropylbenzene	11.000	105	225840	20.89	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.253	83	70513	20.84	ug/l	99
72) 1,2,3-Trichloropropane	11.277	75	59396m	19.45	ug/l	
73) Bromobenzene	11.236	156	52250	20.68	ug/l	95
74) n-propylbenzene	11.341	91	260096	21.00	ug/l	99
75) 2-Chlorotoluene	11.400	91	156992	21.24	ug/l	98
76) 1,3,5-Trimethylbenzene	11.489	105	187384	21.03	ug/l	99
77) t-1,4-Dichloro-2-butene	11.059	75	24548	19.26	ug/l	89
78) 4-Chlorotoluene	11.494	91	178093	21.12	ug/l	99
79) tert-butylbenzene	11.753	119	179113	20.99	ug/l	100
80) 1,2,4-Trimethylbenzene	11.789	105	190081	21.01	ug/l	100
81) sec-Butylbenzene	11.930	105	213392	20.68	ug/l	98
82) p-Isopropyltoluene	12.047	119	198044	21.21	ug/l	99
83) 1,3-Dichlorobenzene	12.006	146	95458	20.57	ug/l	98
84) 1,4-Dichlorobenzene	12.083	146	99285	21.84	ug/l	98
85) n-Butylbenzene	12.371	91	178969	21.22	ug/l	99
86) Hexachloroethane	12.577	117	35486	20.14	ug/l	94
87) 1,2-Dichlorobenzene	12.377	146	93696	21.40	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.983	75	14816	19.41	ug/l	98
89) 1,2,4-Trichlorobenzene	13.630	180	60536	20.99	ug/l	99
90) Hexachlorobutadiene	13.765	225	24127	20.45	ug/l	98
91) Naphthalene	13.818	128	212821	21.06	ug/l	99
92) 1,2,3-Trichlorobenzene	14.001	180	61947	21.42	ug/l	98

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

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