

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082221\
 Data File : VX023892.D
 Acq On : 20 Aug 2021 21:05
 Operator : JC/MD
 Sample : VX0822WBSD02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0822WBSD02

Manual Integrations
 APPROVED

MMDadoda
 8/23/2021 11:32:32 AM

8/23/2021 11:32:32 AM

Quant Time: Aug 21 01:11:08 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Aug 03 12:05:42 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.910	128	31367	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	171511	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	156749	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.971	65	76003	31.332	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 104.433%	
60) 4-Bromofluorobenzene	11.085	95	80203	31.239	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 104.133%	
63) Toluene-d8	8.653	98	216225	30.650	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 102.167%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	35873	19.363	ug/l	97
3) Chloromethane	1.301	50	38105	18.230	ug/l	100
4) Vinyl Chloride	1.374	62	38604	18.465	ug/l	99
5) Bromomethane	1.605	94	27258	22.219	ug/l	95
6) Chloroethane	1.685	64	24809	18.953	ug/l	94
7) Trichlorofluoromethane	1.886	101	63607	18.839	ug/l	98
8) Diethyl Ether	2.142	74	22955	19.067	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	35358	18.746	ug/l	98
10) 1,1-Dichloroethene	2.319	96	34478	18.972	ug/l	94
11) Methyl Iodide	2.459	142	49885	19.537	ug/l	98
12) Methyl Acetate	2.715	43	53709	19.816	ug/l	100
13) Acrolein	2.246	56	26525	88.892	ug/l	99
14) Acrylonitrile	3.075	53	116268	96.971	ug/l	97
15) Acetone	2.392	58	31932	87.878	ug/l	99
16) Carbon Disulfide	2.514	76	78389	17.486	ug/l	99
17) Allyl chloride	2.672	41	62984	18.756	ug/l	97
18) Methylene Chloride	2.794	84	42284	19.784	ug/l	98
19) trans-1,2-Dichloroethene	3.099	96	36522	18.778	ug/l	92
20) Diisopropyl ether	3.776	45	128656	19.187	ug/l	93
21) 1,1-Dichloroethane	3.617	63	70431	19.284	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	43128	19.053	ug/l	96
23) tert-Butyl Alcohol	2.977	59	52497	96.489	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	123530	19.379	ug/l	99
25) Chloroform	5.105	83	74965	20.009	ug/l	97
26) Cyclohexane	5.477	56	61638	18.588	ug/l #	97
29) 1,1-Dichloropropene	5.702	75	53079	19.871	ug/l	100
30) 2-Butanone	4.574	43	173545	96.922	ug/l	99
31) 2,2-Dichloropropane	4.483	77	50657	16.775	ug/l	96
32) 1,1,1-Trichloroethane	5.397	97	64305	19.899	ug/l	97
33) Carbon Tetrachloride	5.684	117	55787	19.848	ug/l	97
34) Benzene	6.050	78	156723	19.460	ug/l	97
35) Methacrylonitrile	4.934	41	35259	19.585	ug/l	94
36) 1,2-Dichloroethane	6.099	62	63179	20.530	ug/l	99
37) Trichloroethene	7.135	130	42455	19.403	ug/l	100
38) Methylcyclohexane	7.385	83	62990	18.538	ug/l	98
39) 1,2-Dichloropropane	7.434	63	40797	19.359	ug/l	98
40) Dibromomethane	7.586	93	29418	19.678	ug/l	98
41) Bromodichloromethane	7.830	83	51208	18.874	ug/l	97
42) Vinyl Acetate	3.733	43	572358	98.134	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	64518	19.424	ug/l	99
44) Isopropyl Acetate	6.348	43	101923	19.275	ug/l	100
45) 1,4-Dioxane	7.665	88	21620	394.019	ug/l	92
46) Methyl methacrylate	7.702	41	49875	19.557	ug/l	96
47) n-amyl Acetate	10.848	43	89343	19.859	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	57347	18.103	ug/l	98
49) cis-1,3-Dichloropropene	8.373	75	61640	18.348	ug/l	97
50) 1,1,2-Trichloroethane	9.159	97	41750	19.336	ug/l	95
51) Ethyl methacrylate	9.122	69	64830	19.044	ug/l	96
52) 1,3-Dichloropropane	9.311	76	70550	19.905	ug/l	99
53) Dibromochloromethane	9.525	129	39979	18.424	ug/l	97
54) 1,2-Dibromoethane	9.616	107	44102	19.302	ug/l	99
55) 2-Chloroethyl vinyl ether	8.251	63	166262	97.792	ug/l	100
56) Bromoform	10.805	173	28606	18.372	ug/l	99
58) 4-Methyl-2-Pentanone	8.580	43	346544	102.550	ug/l	99
59) 2-Hexanone	9.433	43	273808	104.342	ug/l	98
61) Tetrachloroethene	9.275	164	41948	19.918	ug/l	96
62) Toluene	8.720	91	175694	19.868	ug/l	98
64) Chlorobenzene	10.080	112	110362	19.725	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	39537	19.087	ug/l	99
66) Ethyl Benzene	10.195	91	193986	19.823	ug/l	100
67) m/p-Xylenes	10.305	106	151165	39.942	ug/l	99
68) o-Xylene	10.646	106	74167	19.878	ug/l	99
69) Styrene	10.659	104	121960	19.835	ug/l	99
70) Isopropylbenzene	10.964	105	194831	19.860	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	68426	21.804	ug/l	100
72) 1,2,3-Trichloropropane	11.244	75	63382m	21.487	ug/l	
73) Bromobenzene	11.201	156	48841	20.450	ug/l	95
74) n-propylbenzene	11.305	91	224778	19.787	ug/l	100
75) 2-Chlorotoluene	11.366	91	137670	20.303	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	163775	20.130	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	18246	17.327	ug/l	93
78) 4-Chlorotoluene	11.457	91	153676	20.057	ug/l	99
79) tert-butylbenzene	11.719	119	159375	20.166	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	165435	20.519	ug/l	99
81) sec-Butylbenzene	11.896	105	201504	19.906	ug/l	99
82) p-Isopropyltoluene	12.012	119	166750	20.049	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	89001	20.573	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	88920	20.796	ug/l	99
85) n-Butylbenzene	12.335	91	143081	19.446	ug/l	99
86) Hexachloroethane	12.542	117	25679	18.996	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	86020	20.606	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	13467	19.538	ug/l	96
89) 1,2,4-Trichlorobenzene	13.591	180	50332	19.491	ug/l	99
90) Hexachlorobutadiene	13.725	225	22384	19.324	ug/l	98
91) Naphthalene	13.780	128	171668	19.355	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	51292	19.770	ug/l	97

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

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