

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060723\
 Data File : VX036052.D
 Acq On : 07 Jun 2023 11:19
 Operator : JC/MD
 Sample : VX0607WBS02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0607WBS02

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

06/08/2023
 Supervised By :Mahesh
 Dadoda

Quant Time: Jun 08 07:21:27 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X052323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 23 11:36:37 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	D
-----							06
Internal Standards							
1) Bromochloromethane	4.897	128	37242	30.000	ug/l	0.00	
28) 1,4-Difluorobenzene	6.757	114	207833	30.000	ug/l	0.00	
57) Chlorobenzene-d5	10.055	117	192250	30.000	ug/l	0.00	
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	5.952	65	94890	30.665	ug/l	0.00	
Spiked Amount	30.000	Range	91 - 110	Recovery	= 102.200%		
60) 4-Bromofluorobenzene	11.079	95	100426	31.131	ug/l	0.00	
Spiked Amount	30.000	Range	63 - 112	Recovery	= 103.767%		
63) Toluene-d8	8.647	98	256450	30.174	ug/l	0.00	
Spiked Amount	30.000	Range	91 - 112	Recovery	= 100.567%		
Target Compounds						Qvalue	
2) Dichlorodifluoromethane	1.166	85	46527	24.431	ug/l	99	
3) Chloromethane	1.294	50	42855	18.343	ug/l	96	
4) Vinyl Chloride	1.374	62	41619	18.956	ug/l	97	
5) Bromomethane	1.617	94	25805	17.471	ug/l	96	
6) Chloroethane	1.691	64	26787	19.352	ug/l	99	
7) Trichlorofluoromethane	1.886	101	66534	19.989	ug/l	100	
8) Diethyl Ether	2.130	74	25169	18.187	ug/l	97	
9) 1,1,2-Trichlorotrifluo...	2.331	101	42436	23.697	ug/l	96	
10) 1,1-Dichloroethene	2.319	96	37149	19.899	ug/l	92	
11) Methyl Iodide	2.453	142	37470	16.615	ug/l	99	
12) Methyl Acetate	2.709	43	105067	19.917	ug/l	99	
13) Acrolein	2.245	56	47634	114.232	ug/l	98	
14) Acrylonitrile	3.075	53	127464	96.389	ug/l	98	
15) Acetone	2.404	58	40186	101.598	ug/l	96	
16) Carbon Disulfide	2.514	76	76722	18.936	ug/l	99	
17) Allyl chloride	2.666	41	73023	19.389	ug/l	96	
18) Methylene Chloride	2.788	84	43551	17.913	ug/l	99	
19) trans-1,2-Dichloroethene	3.093	96	40380	19.187	ug/l	97	
20) Diisopropyl ether	3.757	45	154538	19.007	ug/l	99	
21) 1,1-Dichloroethane	3.605	63	84326	19.787	ug/l	99	
22) cis-1,2-Dichloroethene	4.483	96	49677	19.077	ug/l	98	
23) tert-Butyl Alcohol	3.062	59	53030m	109.859	ug/l		
24) Methyl tert-Butyl Ether	3.111	73	150023	19.939	ug/l	94	
25) Chloroform	5.092	83	87274	19.957	ug/l	97	
26) Cyclohexane	5.464	56	68402	21.222	ug/l	#	97
29) 1,1-Dichloropropene	5.690	75	61884	21.382	ug/l	99	
30) 2-Butanone	4.568	43	192855	101.795	ug/l	98	
31) 2,2-Dichloropropane	4.477	77	65828	21.171	ug/l	98	
32) 1,1,1-Trichloroethane	5.379	97	73595	21.775	ug/l	99	
33) Carbon Tetrachloride	5.678	117	60648	22.725	ug/l	99	
34) Benzene	6.037	78	179604	19.671	ug/l	97	
35) Methacrylonitrile	4.916	41	40121	19.846	ug/l	95	
36) 1,2-Dichloroethane	6.086	62	74018	20.831	ug/l	100	
37) Trichloroethene	7.123	130	46064	20.072	ug/l	93	
38) Methylcyclohexane	7.379	83	69798	21.991	ug/l	97	
39) 1,2-Dichloropropane	7.427	63	47386	19.282	ug/l	97	
40) Dibromomethane	7.580	93	32136	19.334	ug/l	98	
41) Bromodichloromethane	7.818	83	62211	20.704	ug/l	99	
42) Vinyl Acetate	3.721	43	540842	97.187	ug/l	100	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	66401	18.378	ug/l	99
44) Isopropyl Acetate	6.336	43	109962	18.671	ug/l	100
45) 1,4-Dioxane	7.744	88	18869	337.313	ug/l #	74
46) Methyl methacrylate	7.690	41	54565	19.175	ug/l	96
47) n-amyl Acetate	10.841	43	90859	18.367	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	63707	19.164	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	71369	19.454	ug/l	98
50) 1,1,2-Trichloroethane	9.147	97	47568	20.004	ug/l	98
51) Ethyl methacrylate	9.116	69	70220	19.156	ug/l	96
52) 1,3-Dichloropropane	9.305	76	81709	19.717	ug/l	99
53) Dibromochloromethane	9.518	129	44707	20.501	ug/l	99
54) 1,2-Dibromoethane	9.610	107	49081	19.866	ug/l	97
55) 2-Chloroethyl vinyl ether	8.238	63	180539	92.809	ug/l	98
56) Bromoform	10.799	173	28278	20.003	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	366966	98.272	ug/l	98
59) 2-Hexanone	9.427	43	282062	100.385	ug/l	99
61) Tetrachloroethene	9.269	164	38098	20.577	ug/l	95
62) Toluene	8.714	91	192902	19.484	ug/l	99
64) Chlorobenzene	10.079	112	122558	19.546	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	44531	20.315	ug/l	99
66) Ethyl Benzene	10.195	91	224358	20.263	ug/l	99
67) m/p-Xylenes	10.299	106	171426	40.903	ug/l	100
68) o-Xylene	10.640	106	82864	19.767	ug/l	96
69) Styrene	10.652	104	138812	20.063	ug/l	99
70) Isopropylbenzene	10.963	105	223140	20.854	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	75059	19.804	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	64249m	19.464	ug/l	
73) Bromobenzene	11.195	156	51418	19.779	ug/l	94
74) n-propylbenzene	11.305	91	262329	20.568	ug/l	99
75) 2-Chlorotoluene	11.360	91	162048	20.684	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	191478	21.070	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	18229	18.306	ug/l	94
78) 4-Chlorotoluene	11.451	91	189131	21.190	ug/l	98
79) tert-butylbenzene	11.713	119	181829	20.725	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	188650	20.656	ug/l	98
81) sec-Butylbenzene	11.890	105	230386	20.799	ug/l	98
82) p-Isopropyltoluene	12.006	119	190716	20.696	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	98454	20.010	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	100397	20.330	ug/l	99
85) n-Butylbenzene	12.329	91	167102	20.383	ug/l	99
86) Hexachloroethane	12.536	117	28278	19.486	ug/l	93
87) 1,2-Dichlorobenzene	12.335	146	96813	20.083	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	15346	21.186	ug/l	92
89) 1,2,4-Trichlorobenzene	13.585	180	56585	19.586	ug/l	99
90) Hexachlorobutadiene	13.725	225	22907	21.509	ug/l	94
91) Naphthalene	13.774	128	195276	19.532	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	55435	19.218	ug/l	99

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

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