

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100623\
 Data File : VX038150.D
 Acq On : 07 Oct 2023 01:01
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX100623

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/09/2023
 Supervised By : Mahesh Dadoda 10/09/2023

Quant Time: Oct 07 06:34:24 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X100623W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Oct 07 06:30:32 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	11019	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	85998	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	109820	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	47172	31.336	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 104.467%	
60) 4-Bromofluorobenzene	11.079	95	67964	29.708	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 99.033%	
63) Toluene-d8	8.647	98	130041	30.579	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 101.933%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	28731	21.667	ug/l	99
3) Chloromethane	1.301	50	28249	21.508	ug/l	92
4) Vinyl Chloride	1.374	62	32905	21.389	ug/l	97
5) Bromomethane	1.605	94	33963	18.245	ug/l	95
6) Chloroethane	1.685	64	25650	19.587	ug/l	97
7) Trichlorofluoromethane	1.886	101	69134	21.099	ug/l	97
8) Diethyl Ether	2.130	74	25139	21.031	ug/l	88
9) 1,1,2-Trichlorotrifluo...	2.331	101	25594	20.450	ug/l	97
10) 1,1-Dichloroethene	2.319	96	25962	21.292	ug/l	95
11) Methyl Iodide	2.453	142	39012	21.470	ug/l	99
12) Methyl Acetate	2.703	43	83132	20.033	ug/l	98
13) Acrolein	2.233	56	27625	106.192	ug/l	100
14) Acrylonitrile	3.062	53	103817	106.744	ug/l	98
15) Acetone	2.380	58	27426	105.903	ug/l	95
16) Carbon Disulfide	2.514	76	68539	21.036	ug/l	99
17) Allyl chloride	2.666	41	42799	20.888	ug/l	91
18) Methylene Chloride	2.788	84	32867	20.673	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	31788	20.818	ug/l	95
20) Diisopropyl ether	3.757	45	96653	21.495	ug/l #	84
21) 1,1-Dichloroethane	3.611	63	56568	20.671	ug/l	100
22) cis-1,2-Dichloroethene	4.489	96	37524	20.865	ug/l	96
23) tert-Butyl Alcohol	2.953	59	45345	106.078	ug/l #	1
24) Methyl tert-Butyl Ether	3.111	73	99223	20.729	ug/l	99
25) Chloroform	5.099	83	63670	20.490	ug/l	97
26) Cyclohexane	5.471	56	47589	20.558	ug/l #	98
29) 1,1-Dichloropropene	5.696	75	46289	20.344	ug/l	99
30) 2-Butanone	4.550	43	149472	102.207	ug/l	98
31) 2,2-Dichloropropane	4.477	77	30846	18.352	ug/l	96
32) 1,1,1-Trichloroethane	5.391	97	53545	19.695	ug/l	99
33) Carbon Tetrachloride	5.678	117	45056	19.560	ug/l	97
34) Benzene	6.037	78	135744	20.168	ug/l	98
35) Methacrylonitrile	4.922	41	27155	19.833	ug/l	96
36) 1,2-Dichloroethane	6.086	62	53699	20.565	ug/l	99
37) Trichloroethene	7.129	130	35549	20.054	ug/l	97
38) Methylcyclohexane	7.385	83	52476	19.362	ug/l	96
39) 1,2-Dichloropropane	7.434	63	33578	19.902	ug/l	96
40) Dibromomethane	7.580	93	26773	20.308	ug/l	96
41) Bromodichloromethane	7.824	83	46361	19.616	ug/l	99
42) Vinyl Acetate	3.721	43	337074	104.721	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	55516	20.749	ug/l	99
44) Isopropyl Acetate	6.342	43	81359	20.203	ug/l	100
45) 1,4-Dioxane	7.659	88	20291	396.488	ug/l #	1
46) Methyl methacrylate	7.696	41	39093	19.689	ug/l	97
47) n-amyl Acetate	10.842	43	70779	20.245	ug/l	95
48) t-1,3-Dichloropropene	8.976	75	46606	19.185	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	50103	19.453	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	36303	19.504	ug/l	97
51) Ethyl methacrylate	9.116	69	54157	19.428	ug/l	97
52) 1,3-Dichloropropane	9.311	76	60137	19.868	ug/l	99
53) Dibromochloromethane	9.519	129	35112	19.043	ug/l	100
54) 1,2-Dibromoethane	9.610	107	40279	19.804	ug/l	97
55) 2-Chloroethyl vinyl ether	8.244	63	138718	98.595	ug/l	100
56) Bromoform	10.799	173	25099	18.214	ug/l	100
58) 4-Methyl-2-Pentanone	8.574	43	294942	107.300	ug/l	98
59) 2-Hexanone	9.427	43	234108	105.933	ug/l	99
61) Tetrachloroethene	9.275	164	31663	21.101	ug/l	96
62) Toluene	8.720	91	152251	20.808	ug/l	98
64) Chlorobenzene	10.079	112	95920	20.934	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	32755	20.507	ug/l	98
66) Ethyl Benzene	10.195	91	169940	20.482	ug/l	97
67) m/p-Xylenes	10.299	106	133494	41.473	ug/l	96
68) o-Xylene	10.640	106	64889	20.777	ug/l	95
69) Styrene	10.659	104	108501	20.907	ug/l	99
70) Isopropylbenzene	10.963	105	169113	20.532	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.213	83	63596	20.948	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	57177m	20.709	ug/l	
73) Bromobenzene	11.195	156	41378	20.288	ug/l	99
74) n-propylbenzene	11.305	91	207398	20.721	ug/l	97
75) 2-Chlorotoluene	11.366	91	121344	20.632	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	148021	20.565	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	13363	17.780	ug/l	95
78) 4-Chlorotoluene	11.451	91	144944	20.724	ug/l	98
79) tert-butylbenzene	11.713	119	140999	20.622	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	148155	21.082	ug/l	97
81) sec-Butylbenzene	11.890	105	185684	20.759	ug/l	97
82) p-Isopropyltoluene	12.006	119	151049	20.428	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	82279	20.686	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	84133	20.774	ug/l	98
85) n-Butylbenzene	12.335	91	142055	20.134	ug/l	98
86) Hexachloroethane	12.536	117	23764	19.441	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	79193	20.541	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	15294	21.753	ug/l	95
89) 1,2,4-Trichlorobenzene	13.585	180	51953	20.757	ug/l	99
90) Hexachlorobutadiene	13.725	225	19318	19.188	ug/l	94
91) Naphthalene	13.774	128	179674	20.961	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	49951	20.388	ug/l	99

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

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