

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX053024\
 Data File : VX041682.D
 Acq On : 30 May 2024 09:23
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/31/2024
 Supervised By : Mahesh Dadoda 05/31/2024

Quant Time: May 31 05:25:44 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 16 05:13:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	27920	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	151473	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	142060	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	64083	29.146	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.167%		
60) 4-Bromofluorobenzene	11.079	95	69249	31.226	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	104.100%		
63) Toluene-d8	8.647	98	179297	29.443	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.133%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	28928	19.809	ug/l	97
3) Chloromethane	1.301	50	29448	18.415	ug/l	97
4) Vinyl Chloride	1.374	62	31790	18.882	ug/l	98
5) Bromomethane	1.599	94	20757	19.383	ug/l	99
6) Chloroethane	1.666	64	20232	23.768	ug/l	97
7) Trichlorofluoromethane	1.867	101	54737	21.419	ug/l	96
8) Diethyl Ether	2.136	74	21065	22.072	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	32656	22.036	ug/l	98
10) 1,1-Dichloroethene	2.313	96	29516	20.663	ug/l	93
11) Methyl Iodide	2.447	142	38466	22.609	ug/l	100
12) Methyl Acetate	2.703	43	49069	22.808	ug/l	95
13) Acrolein	2.239	56	17753	67.784	ug/l	97
14) Acrylonitrile	3.068	53	93800	99.168	ug/l	100
15) Acetone	2.386	58	32476	128.146	ug/l	96
16) Carbon Disulfide	2.502	76	56664	17.569	ug/l	100
17) Allyl chloride	2.660	41	51542	20.332	ug/l	98
18) Methylene Chloride	2.788	84	36090	21.243	ug/l	96
19) trans-1,2-Dichloroethene	3.087	96	30744	18.769	ug/l	97
20) Diisopropyl ether	3.757	45	107259	20.138	ug/l	95
21) 1,1-Dichloroethane	3.605	63	59543	19.919	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	38420	19.302	ug/l	99
23) tert-Butyl Alcohol	2.995	59	39364	98.068	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	104259	19.550	ug/l	99
25) Chloroform	5.086	83	63263	19.866	ug/l	99
26) Cyclohexane	5.464	56	47172	18.924	ug/l #	98
29) 1,1-Dichloropropene	5.684	75	41301	20.612	ug/l	97
30) 2-Butanone	4.562	43	142334	107.021	ug/l	99
31) 2,2-Dichloropropane	4.471	77	48746	20.729	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	54137	20.136	ug/l	98
33) Carbon Tetrachloride	5.672	117	45944	19.972	ug/l	99
34) Benzene	6.031	78	129947	20.535	ug/l	99
35) Methacrylonitrile	4.916	41	27973	20.850	ug/l	95
36) 1,2-Dichloroethane	6.080	62	48038	20.343	ug/l	99
37) Trichloroethene	7.123	130	34594	19.621	ug/l	100
38) Methylcyclohexane	7.373	83	49963	19.638	ug/l	99
39) 1,2-Dichloropropane	7.427	63	31494	21.054	ug/l	94
40) Dibromomethane	7.580	93	24478	20.792	ug/l	97
41) Bromodichloromethane	7.818	83	45032	20.374	ug/l	97
42) Vinyl Acetate	3.721	43	463565	100.461	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	51415	20.036	ug/l	100
44) Isopropyl Acetate	6.342	43	77001	19.850	ug/l	99
45) 1,4-Dioxane	7.665	88	15750	360.023	ug/l	90
46) Methyl methacrylate	7.696	41	38830	20.119	ug/l	95
47) n-amyl Acetate	10.842	43	69586	19.782	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	43050	19.395	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	48671	20.244	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	34199	20.882	ug/l	95
51) Ethyl methacrylate	9.116	69	51703	19.613	ug/l	98
52) 1,3-Dichloropropane	9.305	76	57260	21.158	ug/l	99
53) Dibromochloromethane	9.519	129	37799	20.285	ug/l	99
54) 1,2-Dibromoethane	9.610	107	35927	20.687	ug/l	97
55) 2-Chloroethyl vinyl ether	8.238	63	134838	104.793	ug/l	99
56) Bromoform	10.799	173	29387	19.684	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	270491	104.209	ug/l	100
59) 2-Hexanone	9.433	43	213636	103.315	ug/l	100
61) Tetrachloroethene	9.269	164	34517	19.859	ug/l	92
62) Toluene	8.714	91	143412	20.288	ug/l	100
64) Chlorobenzene	10.079	112	97914	20.393	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	35506	20.893	ug/l	99
66) Ethyl Benzene	10.189	91	158660	20.213	ug/l	98
67) m/p-Xylenes	10.299	106	128690	41.927	ug/l	100
68) o-Xylene	10.640	106	63688	20.613	ug/l	97
69) Styrene	10.653	104	106126	20.486	ug/l	100
70) Isopropylbenzene	10.963	105	162571	20.823	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	55763	20.792	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	46010m	19.023	ug/l	
73) Bromobenzene	11.195	156	46308	20.187	ug/l	98
74) n-propylbenzene	11.305	91	183833	20.882	ug/l	100
75) 2-Chlorotoluene	11.360	91	115988	20.981	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	137548	20.641	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	14707	19.346	ug/l	96
78) 4-Chlorotoluene	11.451	91	130774	20.770	ug/l	100
79) tert-butylbenzene	11.713	119	147700	20.825	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	138577	20.747	ug/l	99
81) sec-Butylbenzene	11.890	105	170904	20.622	ug/l	100
82) p-Isopropyltoluene	12.006	119	151102	20.828	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	83715	20.348	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	84030	20.214	ug/l	99
85) n-Butylbenzene	12.329	91	118454	20.291	ug/l	100
86) Hexachloroethane	12.536	117	24108	19.738	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	85308	20.315	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	11530	19.576	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	57145	20.253	ug/l	99
90) Hexachlorobutadiene	13.725	225	29960	21.765	ug/l	97
91) Naphthalene	13.774	128	166361	19.727	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	59423	20.614	ug/l	98

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

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