

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011823\
 Data File : VX033785.D
 Acq On : 18 Jan 2023 19:47
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/19/2023
 Supervised By : Mahesh Dadoda 01/19/2023

Quant Time: Jan 19 03:34:25 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 18 14:40:07 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	15912	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	108313	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	118157	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	36943	30.001	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 100.000%		
60) 4-Bromofluorobenzene	11.079	95	63375	30.003	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 100.000%		
63) Toluene-d8	8.647	98	115363	30.602	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 102.000%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	29769	20.421	ug/l	100
3) Chloromethane	1.294	50	34763	21.206	ug/l	100
4) Vinyl Chloride	1.374	62	33908	21.074	ug/l	97
5) Bromomethane	1.618	94	18257	17.601	ug/l	97
6) Chloroethane	1.691	64	19214	22.324	ug/l	98
7) Trichlorofluoromethane	1.892	101	49202	20.681	ug/l	100
8) Diethyl Ether	2.130	74	18260	20.364	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	29256	20.321	ug/l	99
10) 1,1-Dichloroethene	2.319	96	29724	21.018	ug/l	93
11) Methyl Iodide	2.453	142	35778	16.770	ug/l	98
12) Methyl Acetate	2.703	43	55434	22.463	ug/l	97
13) Acrolein	2.239	56	20852	75.547	ug/l	94
14) Acrylonitrile	3.068	53	87337	108.630	ug/l	99
15) Acetone	2.392	58	24135	99.834	ug/l	99
16) Carbon Disulfide	2.514	76	70313	20.282	ug/l	100
17) Allyl chloride	2.666	41	52875	20.715	ug/l	100
18) Methylene Chloride	2.788	84	33957	21.326	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	31949	20.985	ug/l	97
20) Diisopropyl ether	3.757	45	106831	21.351	ug/l	99
21) 1,1-Dichloroethane	3.611	63	58122	21.227	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	37410	20.912	ug/l	99
23) tert-Butyl Alcohol	3.008	59	27242	98.056	ug/l	80
24) Methyl tert-Butyl Ether	3.111	73	98262	20.986	ug/l	99
25) Chloroform	5.093	83	59501	21.608	ug/l	97
26) Cyclohexane	5.471	56	50757	20.342	ug/l #	100
29) 1,1-Dichloropropene	5.696	75	42780	20.563	ug/l	99
30) 2-Butanone	4.562	43	120730	105.037	ug/l	100
31) 2,2-Dichloropropane	4.477	77	37279	18.893	ug/l	100
32) 1,1,1-Trichloroethane	5.385	97	48752	20.349	ug/l	99
33) Carbon Tetrachloride	5.678	117	43165	20.130	ug/l	99
34) Benzene	6.037	78	130283	21.100	ug/l	98
35) Methacrylonitrile	4.922	41	26540	21.203	ug/l	98
36) 1,2-Dichloroethane	6.086	62	45327	20.870	ug/l	100
37) Trichloroethene	7.129	130	37040	21.242	ug/l	97
38) Methylcyclohexane	7.379	83	50633	20.228	ug/l	98
39) 1,2-Dichloropropane	7.427	63	32832	21.721	ug/l	97
40) Dibromomethane	7.580	93	22803	21.224	ug/l	94
41) Bromodichloromethane	7.824	83	42867	20.912	ug/l	99
42) Vinyl Acetate	3.721	43	401448	103.948	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	47249	21.029	ug/l	98
44) Isopropyl Acetate	6.336	43	71455	20.914	ug/l	98
45) 1,4-Dioxane	7.714	88	15532	439.883	ug/l #	92
46) Methyl methacrylate	7.690	41	37542	21.641	ug/l	96
47) n-amyl Acetate	10.842	43	59046	20.487	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	41966	19.432	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	48598	19.936	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	34373	21.567	ug/l	97
51) Ethyl methacrylate	9.116	69	49687	21.042	ug/l	93
52) 1,3-Dichloropropane	9.311	76	57789	21.515	ug/l	98
53) Dibromochloromethane	9.519	129	35796	20.564	ug/l	100
54) 1,2-Dibromoethane	9.610	107	36167	21.007	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	111513	100.586	ug/l	98
56) Bromoform	10.799	173	27250	20.170	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	236016	111.128	ug/l	97
59) 2-Hexanone	9.433	43	172797	108.285	ug/l	97
61) Tetrachloroethene	9.275	164	33244	21.367	ug/l	95
62) Toluene	8.720	91	141014	21.336	ug/l	100
64) Chlorobenzene	10.079	112	92490	20.991	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	33889	20.655	ug/l	98
66) Ethyl Benzene	10.195	91	157866	20.871	ug/l	99
67) m/p-Xylenes	10.299	106	125783	42.110	ug/l	97
68) o-Xylene	10.640	106	61563	20.784	ug/l	99
69) Styrene	10.653	104	102036	20.942	ug/l	100
70) Isopropylbenzene	10.963	105	159221	20.868	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	50895	22.247	ug/l	97
72) 1,2,3-Trichloropropane	11.238	75	45171m	21.670	ug/l	
73) Bromobenzene	11.195	156	43941	21.265	ug/l	100
74) n-propylbenzene	11.305	91	177286	20.454	ug/l	100
75) 2-Chlorotoluene	11.366	91	107655	20.880	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	132271	20.904	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	12363	19.303	ug/l	97
78) 4-Chlorotoluene	11.451	91	120055	20.698	ug/l	100
79) tert-butylbenzene	11.713	119	134756	20.807	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	131059	20.891	ug/l	99
81) sec-Butylbenzene	11.890	105	161729	20.522	ug/l	99
82) p-Isopropyltoluene	12.006	119	139577	20.446	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	77117	20.657	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	79463	21.236	ug/l	98
85) n-Butylbenzene	12.329	91	109441	19.711	ug/l	99
86) Hexachloroethane	12.536	117	20332	18.841	ug/l	95
87) 1,2-Dichlorobenzene	12.335	146	77730	21.600	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	9973	21.301	ug/l	90
89) 1,2,4-Trichlorobenzene	13.591	180	48172	19.238	ug/l	98
90) Hexachlorobutadiene	13.725	225	21104	17.974	ug/l	99
91) Naphthalene	13.774	128	145321	19.799	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	47354	19.282	ug/l	99

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

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