

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091622\
 Data File : VX031410.D
 Acq On : 16 Sep 2022 15:16
 Operator : JC/MD
 Sample : VX0916WBS02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0916WBS02

Quant Time: Sep 16 16:23:22 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X091622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 16 12:41:56 2022
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2022
 Supervised By : Mahesh Dadoda 09/19/2022

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

Internal Standards						
1) Bromochloromethane	4.904	128	12732	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	70144	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	64877	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	34354	29.950	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	99.833%	
60) 4-Bromofluorobenzene	11.079	95	35246	26.948	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	89.833%	
63) Toluene-d8	8.653	98	106434	29.969	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	99.900%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	13959	20.235	ug/l	100
3) Chloromethane	1.288	50	19544	20.555	ug/l	100
4) Vinyl Chloride	1.374	62	23122	20.985	ug/l	100
5) Bromomethane	1.612	94	34432	23.594	ug/l	98
6) Chloroethane	1.685	64	24871	19.141	ug/l	97
7) Trichlorofluoromethane	1.886	101	54155	20.180	ug/l	93
8) Diethyl Ether	2.136	74	18082	20.212	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.331	101	18208	19.920	ug/l	93
10) 1,1-Dichloroethene	2.319	96	16858	19.703	ug/l	96
11) Methyl Iodide	2.453	142	17724	17.178	ug/l	99
12) Methyl Acetate	2.703	43	26967	20.481	ug/l	92
13) Acrolein	2.239	56	18191	104.142	ug/l	99
14) Acrylonitrile	3.069	53	52616	97.991	ug/l	97
15) Acetone	2.392	58	14327	95.243	ug/l	98
16) Carbon Disulfide	2.508	76	42044	19.036	ug/l	100
17) Allyl chloride	2.666	41	27112	19.549	ug/l	92
18) Methylene Chloride	2.788	84	19306	19.505	ug/l	93
19) trans-1,2-Dichloroethene	3.093	96	18734	18.612	ug/l	97
20) Diisopropyl ether	3.764	45	60702	18.637	ug/l	94
21) 1,1-Dichloroethane	3.611	63	34247	19.949	ug/l	98
22) cis-1,2-Dichloroethene	4.495	96	22017	19.204	ug/l	97
23) tert-Butyl Alcohol	2.989	59	27076	97.917	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	63741	19.660	ug/l	97
25) Chloroform	5.099	83	36950	18.870	ug/l	96
26) Cyclohexane	5.471	56	29982	19.340	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	26380	18.684	ug/l	98
30) 2-Butanone	4.562	43	77937	97.844	ug/l	100
31) 2,2-Dichloropropane	4.477	77	29490	18.675	ug/l #	81
32) 1,1,1-Trichloroethane	5.385	97	33146	18.979	ug/l	98
33) Carbon Tetrachloride	5.678	117	27938	18.102	ug/l	96
34) Benzene	6.038	78	76979	18.527	ug/l	98
35) Methacrylonitrile	4.928	41	15118	18.950	ug/l	91
36) 1,2-Dichloroethane	6.086	62	29600	18.868	ug/l #	92
37) Trichloroethene	7.129	130	21156	18.806	ug/l	96
38) Methylcyclohexane	7.379	83	31835	19.289	ug/l	95
39) 1,2-Dichloropropane	7.428	63	19094	19.154	ug/l	98
40) Dibromomethane	7.586	93	14946	19.389	ug/l	92
41) Bromodichloromethane	7.824	83	28164	18.623	ug/l	98
42) Vinyl Acetate	3.721	43	267029	93.445	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	30530	19.552	ug/l	100
44) Isopropyl Acetate	6.342	43	49906	19.233	ug/l	94
45) 1,4-Dioxane	7.684	88	11208	400.183	ug/l	91
46) Methyl methacrylate	7.696	41	21801	18.768	ug/l	89
47) n-amyl Acetate	10.842	43	41864	18.084	ug/l	94
48) t-1,3-Dichloropropene	8.982	75	29486	17.100	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	31249	17.817	ug/l #	86
50) 1,1,2-Trichloroethane	9.153	97	20780	17.824	ug/l	95
51) Ethyl methacrylate	9.116	69	31196	17.906	ug/l	91
52) 1,3-Dichloropropane	9.311	76	34529	18.241	ug/l	99
53) Dibromochloromethane	9.525	129	22240	17.098	ug/l	99
54) 1,2-Dibromoethane	9.610	107	22297	17.326	ug/l	99
55) 2-Chloroethyl vinyl ether	8.245	63	77296	86.367	ug/l	98
56) Bromoform	10.799	173	15383	15.795	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	162997	104.871	ug/l	97
59) 2-Hexanone	9.433	43	123210	103.509	ug/l	97
61) Tetrachloroethene	9.275	164	20578	19.554	ug/l	91
62) Toluene	8.720	91	87499	18.645	ug/l	98
64) Chlorobenzene	10.080	112	55467	19.007	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	20467	19.068	ug/l	96
66) Ethyl Benzene	10.195	91	99008	18.964	ug/l	100
67) m/p-Xylenes	10.305	106	77090	34.831	ug/l	99
68) o-Xylene	10.640	106	38504	18.254	ug/l	100
69) Styrene	10.659	104	62344	17.340	ug/l	99
70) Isopropylbenzene	10.964	105	100630	17.912	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	33437	19.192	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	30285m	18.918	ug/l	
73) Bromobenzene	11.201	156	23775	17.564	ug/l	98
74) n-propylbenzene	11.305	91	117580	17.981	ug/l	98
75) 2-Chlorotoluene	11.366	91	66866	17.462	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	83020	16.683	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	9235	17.058	ug/l	86
78) 4-Chlorotoluene	11.457	91	78168	17.093	ug/l	98
79) tert-butylbenzene	11.713	119	79789	16.954	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	83069	17.217	ug/l	99
81) sec-Butylbenzene	11.890	105	102571	17.163	ug/l	100
82) p-Isopropyltoluene	12.012	119	86476	16.953	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	45224	16.874	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	46234	16.797	ug/l	99
85) n-Butylbenzene	12.335	91	73488	17.141	ug/l	96
86) Hexachloroethane	12.536	117	14590	17.031	ug/l	89
87) 1,2-Dichlorobenzene	12.335	146	45514	17.102	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	7201	19.402	ug/l	90
89) 1,2,4-Trichlorobenzene	13.591	180	26650	18.233	ug/l	99
90) Hexachlorobutadiene	13.725	225	10083	18.812	ug/l	97
91) Naphthalene	13.774	128	97122	18.427	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	27800	18.959	ug/l	97

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

