

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070822\
 Data File : VX029983.D
 Acq On : 08 Jul 2022 19:12
 Operator : JC/MD
 Sample : N3214-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT2-2022

Quant Time: Jul 09 04:04:42 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X070822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jul 09 04:03:40 2022
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :John Carlone 07/11/2022
 Supervised By :Mahesh Dadoda 07/11/2022

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

Internal Standards						
1) Bromochloromethane	4.910	128	31260	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	174837	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	152619	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	71852	28.188	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	93.967%		
60) 4-Bromofluorobenzene	11.085	95	84335	29.322	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.733%		
63) Toluene-d8	8.653	98	254923	30.804	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	102.667%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	7890	3.691	ug/l	89
3) Chloromethane	1.288	50	10257	4.601	ug/l	95
4) Vinyl Chloride	1.374	62	10996	4.353	ug/l	89
5) Bromomethane	1.605	94	3396	3.263	ug/l	83
6) Chloroethane	1.684	64	7709	5.699	ug/l	92
7) Trichlorofluoromethane	1.886	101	14844	4.636	ug/l	98
8) Diethyl Ether	2.136	74	6485	4.762	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.331	101	9925	4.604	ug/l	96
10) 1,1-Dichloroethene	2.318	96	10114	4.594	ug/l	96
11) Methyl Iodide	2.453	142	3495	1.914	ug/l	88
12) Methyl Acetate	2.709	43	17651	4.923	ug/l	98
13) Acrolein	2.239	56	8297	19.700	ug/l	99
14) Acrylonitrile	3.068	53	37090	24.037	ug/l	98
15) Acetone	2.392	58	10577	25.235	ug/l	84
16) Carbon Disulfide	2.507	76	25478	4.434	ug/l	96
17) Allyl chloride	2.666	41	17119	4.413	ug/l	97
18) Methylene Chloride	2.794	84	13047	5.087	ug/l	95
19) trans-1,2-Dichloroethene	3.093	96	11583	4.849	ug/l	89
20) Diisopropyl ether	3.769	45	36597	4.709	ug/l #	81
21) 1,1-Dichloroethane	3.611	63	20988	5.017	ug/l	98
22) cis-1,2-Dichloroethene	4.495	96	12896	4.546	ug/l	96
23) tert-Butyl Alcohol	2.977	59	23235m	32.870	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	32302	4.548	ug/l	99
25) Chloroform	5.105	83	20603	4.941	ug/l	99
26) Cyclohexane	5.476	56	18388	4.744	ug/l #	93
29) 1,1-Dichloropropene	5.702	75	13878	4.640	ug/l	95
30) 2-Butanone	4.568	43	51187	25.356	ug/l	97
31) 2,2-Dichloropropane	4.489	77	11660m	4.079	ug/l	
32) 1,1,1-Trichloroethane	5.391	97	15435	4.799	ug/l	95
33) Carbon Tetrachloride	5.684	117	13062m	4.836	ug/l	
34) Benzene	6.037	78	47735	4.966	ug/l #	96
35) Methacrylonitrile	4.934	41	10967	5.367	ug/l	87
36) 1,2-Dichloroethane	6.092	62	15313	5.234	ug/l	96
37) Trichloroethene	7.135	130	12572	4.891	ug/l	98
38) Methylcyclohexane	7.385	83	19025	4.902	ug/l	95
39) 1,2-Dichloropropane	7.440	63	12481	5.101	ug/l	94
40) Dibromomethane	7.586	93	8405	5.068	ug/l	92
41) Bromodichloromethane	7.824	83	14606	4.930	ug/l	95
42) Vinyl Acetate	3.727	43	147407	22.833	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	19654	5.168	ug/l	95
44) Isopropyl Acetate	6.348	43	27494	4.759	ug/l	99
45) 1,4-Dioxane	7.683	88	7136	105.227	ug/l	97
46) Methyl methacrylate	7.702	41	13261	4.844	ug/l	94
47) n-amyl Acetate	10.841	43	20786	4.188	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	13390	4.090	ug/l	92
49) cis-1,3-Dichloropropene	8.372	75	16519	4.493	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	12007	4.887	ug/l	92
51) Ethyl methacrylate	9.122	69	17903	4.682	ug/l	97
52) 1,3-Dichloropropane	9.311	76	19580	4.954	ug/l	99
53) Dibromochloromethane	9.525	129	10155	4.465	ug/l	99
54) 1,2-Dibromoethane	9.610	107	13058	5.118	ug/l	97
55) 2-Chloroethyl vinyl ether	8.244	63	45864	23.271	ug/l	96
56) Bromoform	10.805	173	6450	4.052	ug/l	98
58) 4-Methyl-2-Pentanone	8.580	43	94116	24.966	ug/l	99
59) 2-Hexanone	9.433	43	69527	23.845	ug/l	97
61) Tetrachloroethene	9.281	164	12115	5.287	ug/l	89
62) Toluene	8.720	91	51934	5.115	ug/l	95
64) Chlorobenzene	10.079	112	31403	5.179	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	9794	4.632	ug/l	94
66) Ethyl Benzene	10.195	91	51451	4.769	ug/l	93
67) m/p-Xylenes	10.305	106	42057	10.046	ug/l	96
68) o-Xylene	10.646	106	20411	4.896	ug/l	98
69) Styrene	10.658	104	34184	4.955	ug/l	96
70) Isopropylbenzene	10.963	105	51627	4.918	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	19023	4.984	ug/l	98
72) 1,2,3-Trichloropropane	11.244	75	16484m	4.804	ug/l	
73) Bromobenzene	11.201	156	12613	5.011	ug/l	92
74) n-propylbenzene	11.305	91	58133	4.617	ug/l	100
75) 2-Chlorotoluene	11.366	91	34628	4.670	ug/l	94
76) 1,3,5-Trimethylbenzene	11.451	105	42592	4.833	ug/l	100
77) t-1,4-Dichloro-2-butene	11.024	75	4368	3.701	ug/l	83
78) 4-Chlorotoluene	11.457	91	39326	4.725	ug/l	98
79) tert-butylbenzene	11.719	119	40651	4.741	ug/l	97
80) 1,2,4-Trimethylbenzene	11.756	105	41409	4.570	ug/l	98
81) sec-Butylbenzene	11.890	105	52133	4.492	ug/l	99
82) p-Isopropyltoluene	12.012	119	40551	4.340	ug/l	97
83) 1,3-Dichlorobenzene	11.969	146	23677	4.862	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	23509	4.760	ug/l	99
85) n-Butylbenzene	12.335	91	33751	3.850	ug/l	98
86) Hexachloroethane	12.542	117	6261	4.034	ug/l	84
87) 1,2-Dichlorobenzene	12.335	146	23658	4.920	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	3641	4.183	ug/l	96
89) 1,2,4-Trichlorobenzene	13.591	180	13423	4.508	ug/l	92
90) Hexachlorobutadiene	13.725	225	5581	4.943	ug/l	98
91) Naphthalene	13.780	128	51710	4.357	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	13887	4.579	ug/l	99

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

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