

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071122\
 Data File : VX029990.D
 Acq On : 11 Jul 2022 11:59
 Operator : JC/MD
 Sample : N3214-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT2-2022

Quant Time: Jul 12 01:22:47 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X070822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jul 09 02:10:54 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Krupa Patel 07/12/2022
 Supervised By :Mahesh Dadoda 07/12/2022

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

Internal Standards						
1) Bromochloromethane	4.897	128	28764	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	162359	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	143472	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	66770	28.468	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	94.900%		
60) 4-Bromofluorobenzene	11.079	95	77775	28.765	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	95.867%		
63) Toluene-d8	8.653	98	231061	29.701	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.000%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	5027	2.556	ug/l	94
3) Chloromethane	1.288	50	5309	2.588	ug/l	90
4) Vinyl Chloride	1.374	62	5954	2.562	ug/l	93
5) Bromomethane	1.611	94	2714	2.834	ug/l	96
6) Chloroethane	1.691	64	3545	2.848	ug/l	96
7) Trichlorofluoromethane	1.886	101	8184	2.778	ug/l	93
8) Diethyl Ether	2.136	74	3655	2.917	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.331	101	5946	2.997	ug/l	93
10) 1,1-Dichloroethene	2.318	96	5832	2.879	ug/l	92
11) Methyl Iodide	2.453	142	3453	10.291	ug/l	93
12) Methyl Acetate	2.709	43	9039	2.740	ug/l	93
13) Acrolein	2.239	56	5247	13.539	ug/l	89
14) Acrylonitrile	3.068	53	18779	13.226	ug/l	99
15) Acetone	2.386	58	5898	15.293	ug/l #	65
16) Carbon Disulfide	2.507	76	15845	2.997	ug/l #	94
17) Allyl chloride	2.666	41	10077	2.823	ug/l	89
18) Methylene Chloride	2.794	84	7590	3.216	ug/l	91
19) trans-1,2-Dichloroethene	3.093	96	6304	2.868	ug/l	85
20) Diisopropyl ether	3.757	45	18735	2.620	ug/l #	93
21) 1,1-Dichloroethane	3.617	63	11201	2.910	ug/l #	93
22) cis-1,2-Dichloroethene	4.501	96	7005	2.684	ug/l	96
23) tert-Butyl Alcohol	2.983	59	8192	12.595	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	16976	2.598	ug/l	99
25) Chloroform	5.105	83	11223m	2.925	ug/l	
26) Cyclohexane	5.470	56	9829	2.756	ug/l #	93
29) 1,1-Dichloropropene	5.684	75	7733m	2.784	ug/l	
30) 2-Butanone	4.568	43	25656	13.685	ug/l #	96
31) 2,2-Dichloropropane	4.483	77	7283m	2.744	ug/l	
32) 1,1,1-Trichloroethane	5.391	97	8676	2.905	ug/l	95
33) Carbon Tetrachloride	5.684	117	7572	3.019	ug/l	85
34) Benzene	6.043	78	25454	2.852	ug/l	97
35) Methacrylonitrile	4.928	41	4895m	2.580	ug/l	
36) 1,2-Dichloroethane	6.098	62	7416	2.729	ug/l #	89
37) Trichloroethene	7.135	130	7230	3.029	ug/l	97
38) Methylcyclohexane	7.385	83	10659	2.958	ug/l	95
39) 1,2-Dichloropropane	7.433	63	6397	2.816	ug/l	94
40) Dibromomethane	7.580	93	4386	2.848	ug/l	93
41) Bromodichloromethane	7.824	83	8176	2.972	ug/l	88
42) Vinyl Acetate	3.721	43	73124	12.197	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	9224	2.612	ug/l	99
44) Isopropyl Acetate	6.342	43	15043	2.804	ug/l	100
45) 1,4-Dioxane	7.689	88	3324	52.782	ug/l	94
46) Methyl methacrylate	7.696	41	6858	2.698	ug/l	88
47) n-amyl Acetate	10.847	43	10510	2.281	ug/l	96
48) t-1,3-Dichloropropene	8.982	75	8481	2.790	ug/l	89
49) cis-1,3-Dichloropropene	8.366	75	9939	2.911	ug/l	96
50) 1,1,2-Trichloroethane	9.159	97	6597	2.891	ug/l	98
51) Ethyl methacrylate	9.122	69	9003	2.536	ug/l	91
52) 1,3-Dichloropropane	9.311	76	10263	2.796	ug/l	99
53) Dibromochloromethane	9.524	129	6533	3.094	ug/l	98
54) 1,2-Dibromoethane	9.610	107	6608	2.789	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	26619	14.544	ug/l	97
56) Bromoform	10.799	173	5056	3.420	ug/l	98
58) 4-Methyl-2-Pentanone	8.573	43	46840	13.217	ug/l	98
59) 2-Hexanone	9.433	43	36652	13.372	ug/l	98
61) Tetrachloroethene	9.275	164	7006	3.252	ug/l	99
62) Toluene	8.720	91	27573	2.889	ug/l	94
64) Chlorobenzene	10.079	112	16697	2.929	ug/l	94
65) 1,1,1,2-Tetrachloroethane	10.165	131	5957	2.997	ug/l	93
66) Ethyl Benzene	10.195	91	27943	2.755	ug/l	97
67) m/p-Xylenes	10.305	106	22094	5.614	ug/l	97
68) o-Xylene	10.646	106	10356	2.642	ug/l	97
69) Styrene	10.658	104	16705	2.576	ug/l	96
70) Isopropylbenzene	10.963	105	27233	2.760	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	10071	2.807	ug/l	98
72) 1,2,3-Trichloropropane	11.244	75	8610m	2.669	ug/l	
73) Bromobenzene	11.201	156	6673	2.820	ug/l	94
74) n-propylbenzene	11.305	91	31352	2.649	ug/l	100
75) 2-Chlorotoluene	11.366	91	18868	2.707	ug/l	96
76) 1,3,5-Trimethylbenzene	11.451	105	22139	2.672	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	3328	3.000	ug/l	73
78) 4-Chlorotoluene	11.457	91	21310	2.724	ug/l	96
79) tert-butylbenzene	11.719	119	21808	2.706	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	21077	2.475	ug/l	94
81) sec-Butylbenzene	11.890	105	27909	2.558	ug/l	100
82) p-Isopropyltoluene	12.012	119	22710	2.586	ug/l	98
83) 1,3-Dichlorobenzene	11.975	146	13277	2.900	ug/l	97
84) 1,4-Dichlorobenzene	12.042	146	12084	2.603	ug/l	98
85) n-Butylbenzene	12.335	91	19036	2.310	ug/l	95
86) Hexachloroethane	12.536	117	4307	2.952	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	12485	2.762	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	2140	2.615	ug/l	96
89) 1,2,4-Trichlorobenzene	13.591	180	7058	2.522	ug/l	97
90) Hexachlorobutadiene	13.731	225	2905	2.737	ug/l	89
91) Naphthalene	13.780	128	26488	2.374	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	7413	2.600	ug/l	97

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

