

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051524\
 Data File : VX041541.D
 Acq On : 15 May 2024 15:57
 Operator : JC/MD
 Sample : P2403-07 2.5PPB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2024

Quant Time: May 16 05:26:49 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

Manual Integrations
 APPROVED

Reviewed By :John Carlone 05/16/2024
 Supervised By :Mahesh Dadoda 05/16/2024

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

Internal Standards						
1) Bromochloromethane	4.898	128	30220	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	161343	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	148697	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	69114	29.042	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.800%		
60) 4-Bromofluorobenzene	11.079	95	59097	25.459	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	84.867%		
63) Toluene-d8	8.647	98	189921	29.796	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.333%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	3935	2.490	ug/l	84
3) Chloromethane	1.301	50	4372	2.526	ug/l	94
4) Vinyl Chloride	1.374	62	4055	2.225	ug/l #	89
5) Bromomethane	1.599	94	3211	2.770	ug/l	89
6) Chloroethane	1.666	64	2534	2.750	ug/l #	85
7) Trichlorofluoromethane	1.868	101	6856	2.479	ug/l	92
8) Diethyl Ether	2.136	74	2402	2.325	ug/l	90
9) 1,1,2-Trichlorotrifluo...	2.319	101	3460	2.157	ug/l	96
10) 1,1-Dichloroethene	2.313	96	3329	2.153	ug/l	89
11) Methyl Iodide	2.441	142	3053	1.658	ug/l	96
12) Methyl Acetate	2.709	43	5242	2.251	ug/l	92
13) Acrolein	2.233	56	2441	8.611	ug/l	89
14) Acrylonitrile	3.069	53	10434	10.192	ug/l	99
15) Acetone	2.386	58	3235	11.793	ug/l	96
16) Carbon Disulfide	2.502	76	6986	2.001	ug/l #	90
17) Allyl chloride	2.660	41	5203	1.896	ug/l	96
18) Methylene Chloride	2.782	84	4215	2.292	ug/l	96
19) trans-1,2-Dichloroethene	3.081	96	3658	2.063	ug/l #	84
20) Diisopropyl ether	3.770	45	13664	2.370	ug/l	99
21) 1,1-Dichloroethane	3.611	63	7493	2.316	ug/l	97
22) cis-1,2-Dichloroethene	4.489	96	5024	2.332	ug/l #	51
23) tert-Butyl Alcohol	2.995	59	5514	12.692	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	11706	2.028	ug/l	98
25) Chloroform	5.087	83	8305	2.409	ug/l	92
26) Cyclohexane	5.458	56	6457	2.393	ug/l #	97
29) 1,1-Dichloropropene	5.684	75	5136	2.406	ug/l	97
30) 2-Butanone	4.574	43	18500	13.059	ug/l #	83
31) 2,2-Dichloropropane	4.471	77	5995	2.393	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	6991	2.441	ug/l #	43
33) Carbon Tetrachloride	5.666	117	5338m	2.178	ug/l	
34) Benzene	6.038	78	16482	2.445	ug/l	98
35) Methacrylonitrile	4.928	41	3219	2.253	ug/l	86
36) 1,2-Dichloroethane	6.086	62	6418	2.552	ug/l #	88
37) Trichloroethene	7.129	130	4556	2.426	ug/l	99
38) Methylcyclohexane	7.373	83	6675	2.463	ug/l	100
39) 1,2-Dichloropropane	7.434	63	3855	2.419	ug/l	99
40) Dibromomethane	7.586	93	3135	2.500	ug/l	99
41) Bromodichloromethane	7.824	83	5082	2.159	ug/l #	88
42) Vinyl Acetate	3.721	43	57737	11.747	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	6881m	2.517	ug/l	
44) Isopropyl Acetate	6.355	43	9764	2.363	ug/l #	75
45) 1,4-Dioxane	7.678	88	2189m	46.977	ug/l	
46) Methyl methacrylate	7.702	41	4581	2.228	ug/l	96
47) n-amyl Acetate	10.848	43	6795	1.813	ug/l	97
48) t-1,3-Dichloropropene	8.982	75	4900	2.073	ug/l	93
49) cis-1,3-Dichloropropene	8.366	75	5522	2.156	ug/l	98
50) 1,1,2-Trichloroethane	9.159	97	4317	2.475	ug/l	88
51) Ethyl methacrylate	9.122	69	5794	2.063	ug/l	98
52) 1,3-Dichloropropane	9.311	76	7140	2.477	ug/l	99
53) Dibromochloromethane	9.519	129	4082	2.057	ug/l	99
54) 1,2-Dibromoethane	9.610	107	4557	2.463	ug/l	99
55) 2-Chloroethyl vinyl ether	8.245	63	15207	11.096	ug/l	98
56) Bromoform	10.799	173	3104	1.952	ug/l #	96
58) 4-Methyl-2-Pentanone	8.574	43	34280	12.617	ug/l	99
59) 2-Hexanone	9.433	43	26711	12.341	ug/l	97
61) Tetrachloroethene	9.275	164	4619	2.539	ug/l #	87
62) Toluene	8.720	91	18282	2.471	ug/l	98
64) Chlorobenzene	10.080	112	12744	2.536	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	4263	2.397	ug/l	98
66) Ethyl Benzene	10.195	91	19230	2.341	ug/l	98
67) m/p-Xylenes	10.299	106	14968	4.659	ug/l	97
68) o-Xylene	10.640	106	7997	2.473	ug/l	93
69) Styrene	10.659	104	11619	2.143	ug/l	98
70) Isopropylbenzene	10.964	105	16140	1.975	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.214	83	6926	2.467	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	6064m	2.395	ug/l	
73) Bromobenzene	11.201	156	5489	2.286	ug/l	97
74) n-propylbenzene	11.305	91	19890	2.159	ug/l	99
75) 2-Chlorotoluene	11.366	91	14202	2.454	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	15383	2.205	ug/l	97
77) t-1,4-Dichloro-2-butene	11.025	75	1122	1.410	ug/l	89
78) 4-Chlorotoluene	11.457	91	14585	2.213	ug/l	100
79) tert-butylbenzene	11.713	119	16798	2.263	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	14820	2.120	ug/l	96
81) sec-Butylbenzene	11.890	105	18170	2.095	ug/l	99
82) p-Isopropyltoluene	12.006	119	15717	2.070	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	9977	2.317	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	9932	2.283	ug/l	97
85) n-Butylbenzene	12.335	91	11123	1.820	ug/l	98
86) Hexachloroethane	12.536	117	2319	1.814	ug/l	92
87) 1,2-Dichlorobenzene	12.335	146	10604	2.413	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	1254	2.034	ug/l	94
89) 1,2,4-Trichlorobenzene	13.591	180	5941	2.012	ug/l	97
90) Hexachlorobutadiene	13.725	225	3330	2.311	ug/l	100
91) Naphthalene	13.774	128	17858	2.023	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	6538	2.167	ug/l	99

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

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