

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032924\
 Data File : VX040833.D
 Acq On : 29 Mar 2024 10:00
 Operator : JC/MD
 Sample : VX0329WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0329WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/01/2024
 Supervised By : Mahesh Dadoda 04/01/2024

Quant Time: Mar 29 22:57:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 29 05:24:11 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	4565	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	37711	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	44590	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	23636	30.210	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.700%			
60) 4-Bromofluorobenzene	11.079	95	28485	29.243	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.467%			
63) Toluene-d8	8.647	98	55023	31.477	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 104.933%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	15812	19.785	ug/l	96
3) Chloromethane	1.301	50	14326	19.636	ug/l	93
4) Vinyl Chloride	1.374	62	14659	19.498	ug/l	98
5) Bromomethane	1.612	94	11114	23.402	ug/l	100
6) Chloroethane	1.691	64	10087	21.213	ug/l	92
7) Trichlorofluoromethane	1.892	101	24859	19.071	ug/l	88
8) Diethyl Ether	2.136	74	7912	19.468	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	14938	20.485	ug/l	96
10) 1,1-Dichloroethene	2.319	96	13554	19.832	ug/l	94
11) Methyl Iodide	2.453	142	19090	20.435	ug/l	92
12) Methyl Acetate	2.703	43	18488	18.843	ug/l	96
13) Acrolein	2.233	56	10356	96.348	ug/l	99
14) Acrylonitrile	3.056	53	41154	96.344	ug/l	98
15) Acetone	2.374	58	11721	96.760	ug/l	73
16) Carbon Disulfide	2.514	76	38562	20.090	ug/l	97
17) Allyl chloride	2.666	41	25054	19.968	ug/l	89
18) Methylene Chloride	2.788	84	14958	20.340	ug/l	96
19) trans-1,2-Dichloroethene	3.093	96	14444	20.224	ug/l	96
20) Diisopropyl ether	3.757	45	48226	19.741	ug/l #	98
21) 1,1-Dichloroethane	3.605	63	27488	19.931	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	16589	19.769	ug/l	95
23) tert-Butyl Alcohol	2.947	59	18916	95.463	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	48042	19.754	ug/l	93
25) Chloroform	5.087	83	30374	20.319	ug/l	95
26) Cyclohexane	5.471	56	23670	20.647	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	20343	19.332	ug/l	97
30) 2-Butanone	4.544	43	61655	92.603	ug/l	98
31) 2,2-Dichloropropane	4.471	77	24338	19.584	ug/l #	83
32) 1,1,1-Trichloroethane	5.379	97	26956	19.402	ug/l	97
33) Carbon Tetrachloride	5.678	117	23206	19.350	ug/l	96
34) Benzene	6.031	78	57125	18.925	ug/l	98
35) Methacrylonitrile	4.916	41	13120	18.620	ug/l	91
36) 1,2-Dichloroethane	6.080	62	24928	19.007	ug/l #	95
37) Trichloroethene	7.123	130	14354	19.249	ug/l	89
38) Methylcyclohexane	7.379	83	24606	19.807	ug/l	96
39) 1,2-Dichloropropane	7.428	63	14029	19.562	ug/l	98
40) Dibromomethane	7.574	93	11782	19.814	ug/l	99
41) Bromodichloromethane	7.818	83	21965	18.196	ug/l	100
42) Vinyl Acetate	3.715	43	236750	96.203	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.709	43	25004	19.296	ug/l	99
44) Isopropyl Acetate	6.336	43	38938	18.807	ug/l	93
45) 1,4-Dioxane	7.653	88	6916	356.736	ug/l	96
46) Methyl methacrylate	7.690	41	18148	18.206	ug/l	96
47) n-amyl Acetate	10.842	43	33628	18.037	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	21890	18.279	ug/l	94
49) cis-1,3-Dichloropropene	8.360	75	23461	18.963	ug/l	94
50) 1,1,2-Trichloroethane	9.147	97	13613	18.668	ug/l	98
51) Ethyl methacrylate	9.110	69	22985	18.047	ug/l	94
52) 1,3-Dichloropropane	9.305	76	23591	18.822	ug/l	96
53) Dibromochloromethane	9.519	129	16792	19.219	ug/l	97
54) 1,2-Dibromoethane	9.610	107	14967	18.544	ug/l	95
55) 2-Chloroethyl vinyl ether	8.238	63	56692	91.001	ug/l	99
56) Bromoform	10.799	173	11349	18.683	ug/l #	96
58) 4-Methyl-2-Pentanone	8.568	43	126852	100.729	ug/l	97
59) 2-Hexanone	9.427	43	96281	95.933	ug/l	95
61) Tetrachloroethene	9.269	164	12440	20.812	ug/l	99
62) Toluene	8.714	91	62333	20.669	ug/l	99
64) Chlorobenzene	10.080	112	39551	20.287	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	13758	20.137	ug/l	95
66) Ethyl Benzene	10.189	91	71961	20.300	ug/l	98
67) m/p-Xylenes	10.299	106	52150	40.073	ug/l	95
68) o-Xylene	10.640	106	24741	20.181	ug/l	99
69) Styrene	10.653	104	41336	19.431	ug/l	96
70) Isopropylbenzene	10.964	105	68104	20.392	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	22216	19.154	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	19060m	19.410	ug/l	
73) Bromobenzene	11.195	156	15946	20.023	ug/l	96
74) n-propylbenzene	11.305	91	80053	19.201	ug/l	100
75) 2-Chlorotoluene	11.360	91	47355	19.208	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	54897	18.996	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	7527	19.267	ug/l	71
78) 4-Chlorotoluene	11.451	91	55563	18.965	ug/l	99
79) tert-butylbenzene	11.713	119	52747	18.967	ug/l	95
80) 1,2,4-Trimethylbenzene	11.750	105	55049	19.221	ug/l	100
81) sec-Butylbenzene	11.890	105	71639	20.090	ug/l	99
82) p-Isopropyltoluene	12.006	119	60952	20.186	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	30543	19.752	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	31174	19.562	ug/l	99
85) n-Butylbenzene	12.329	91	62118	20.686	ug/l	98
86) Hexachloroethane	12.536	117	10532	19.632	ug/l	92
87) 1,2-Dichlorobenzene	12.335	146	30482	20.379	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	5641	18.896	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	21686	20.782	ug/l	98
90) Hexachlorobutadiene	13.725	225	8386	21.429	ug/l	97
91) Naphthalene	13.774	128	72441	20.757	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	20831	20.942	ug/l	99

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

