

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121523\
 Data File : VX039223.D
 Acq On : 15 Dec 2023 10:38
 Operator : JC/MD
 Sample : VX1215WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1215WBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/18/2023
 Supervised By :Semsettin Yesilyurt 12/18/2023

Quant Time: Dec 16 01:11:39 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:22:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	10720	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	84947	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	103663	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	47671	32.505	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 108.367%			
60) 4-Bromofluorobenzene	11.079	95	70250	31.027	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.433%			
63) Toluene-d8	8.647	98	121628	29.676	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.933%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.167	85	32753	20.413	ug/l	98
3) Chloromethane	1.295	50	35274	19.200	ug/l	93
4) Vinyl Chloride	1.374	62	34237	18.459	ug/l	99
5) Bromomethane	1.605	94	21035	18.542	ug/l	99
6) Chloroethane	1.685	64	19699	18.238	ug/l	98
7) Trichlorofluoromethane	1.886	101	51910	20.278	ug/l	98
8) Diethyl Ether	2.130	74	18462	18.788	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	32684	22.594	ug/l	99
10) 1,1-Dichloroethene	2.319	96	29978	20.559	ug/l	100
11) Methyl Iodide	2.453	142	31114	19.472	ug/l	99
12) Methyl Acetate	2.697	43	101879	22.402	ug/l	98
13) Acrolein	2.233	56	37022	92.926	ug/l	98
14) Acrylonitrile	3.056	53	112394	101.046	ug/l	100
15) Acetone	2.374	58	34023	84.149	ug/l	97
16) Carbon Disulfide	2.514	76	80624	18.256	ug/l	97
17) Allyl chloride	2.660	41	61769	21.339	ug/l	95
18) Methylene Chloride	2.788	84	35620	20.608	ug/l	95
19) trans-1,2-Dichloroethene	3.087	96	32467	19.687	ug/l	94
20) Diisopropyl ether	3.758	45	117283	21.291	ug/l	91
21) 1,1-Dichloroethane	3.605	63	64784	21.152	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	38349	20.065	ug/l	93
23) tert-Butyl Alcohol	2.947	59	52744	85.655	ug/l #	100
24) Methyl tert-Butyl Ether	3.105	73	111826	20.818	ug/l	95
25) Chloroform	5.087	83	65468	21.297	ug/l	96
26) Cyclohexane	5.465	56	55349	19.967	ug/l #	96
29) 1,1-Dichloropropene	5.690	75	48181	20.233	ug/l	97
30) 2-Butanone	4.544	43	167201	93.258	ug/l	99
31) 2,2-Dichloropropane	4.471	77	56687	20.820	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	56396	20.490	ug/l	98
33) Carbon Tetrachloride	5.672	117	44996	19.408	ug/l	93
34) Benzene	6.032	78	137009	19.751	ug/l	99
35) Methacrylonitrile	4.916	41	33070	20.823	ug/l	99
36) 1,2-Dichloroethane	6.080	62	55691	21.880	ug/l	99
37) Trichloroethene	7.123	130	34088	19.361	ug/l	96
38) Methylcyclohexane	7.379	83	57852	19.498	ug/l	97
39) 1,2-Dichloropropane	7.428	63	37756	20.638	ug/l	100
40) Dibromomethane	7.580	93	26008	20.120	ug/l	97
41) Bromodichloromethane	7.818	83	50623	20.385	ug/l	99
42) Vinyl Acetate	3.715	43	431073	100.947	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.702	43	60234	19.528	ug/l	100
44) Isopropyl Acetate	6.330	43	96843	19.916	ug/l	98
45) 1,4-Dioxane	7.653	88	17152	345.538	ug/l	96
46) Methyl methacrylate	7.690	41	57993	20.860	ug/l	99
47) n-amyl Acetate	10.842	43	82603	20.071	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	56023	19.456	ug/l	95
49) cis-1,3-Dichloropropene	8.360	75	59060	19.883	ug/l	94
50) 1,1,2-Trichloroethane	9.147	97	34972	19.917	ug/l	97
51) Ethyl methacrylate	9.116	69	45222	20.574	ug/l	98
52) 1,3-Dichloropropane	9.305	76	61309	20.362	ug/l	100
53) Dibromochloromethane	9.519	129	36000	19.090	ug/l	99
54) 1,2-Dibromoethane	9.610	107	38315	19.898	ug/l	97
55) 2-Chloroethyl vinyl ether	8.238	63	161291	115.769	ug/l	99
56) Bromoform	10.799	173	23756	17.454	ug/l	99
58) 4-Methyl-2-Pentanone	8.568	43	328786	104.590	ug/l	99
59) 2-Hexanone	9.427	43	264338	102.442	ug/l	97
61) Tetrachloroethene	9.269	164	26822	19.901	ug/l	95
62) Toluene	8.714	91	149306	20.287	ug/l	99
64) Chlorobenzene	10.080	112	89058	19.893	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.159	131	32281	20.022	ug/l	98
66) Ethyl Benzene	10.189	91	171957	20.519	ug/l	97
67) m/p-Xylenes	10.299	106	124359	40.158	ug/l	98
68) o-Xylene	10.640	106	59671	19.892	ug/l	97
69) Styrene	10.653	104	87619	19.736	ug/l	96
70) Isopropylbenzene	10.957	105	165085	20.569	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.207	83	61552	20.544	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	54402m	21.458	ug/l	
73) Bromobenzene	11.195	156	37261	20.392	ug/l	92
74) n-propylbenzene	11.305	91	205513	20.900	ug/l	98
75) 2-Chlorotoluene	11.360	91	120001	20.801	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	141368	20.446	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	18053	17.970	ug/l	92
78) 4-Chlorotoluene	11.451	91	141172	20.813	ug/l	96
79) tert-butylbenzene	11.713	119	135235	20.569	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	141745	20.483	ug/l	97
81) sec-Butylbenzene	11.890	105	170364	20.497	ug/l	100
82) p-Isopropyltoluene	12.006	119	143566	20.381	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	70034	20.027	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	70553	19.663	ug/l	100
85) n-Butylbenzene	12.329	91	143573	20.639	ug/l	98
86) Hexachloroethane	12.536	117	25426	19.050	ug/l	95
87) 1,2-Dichlorobenzene	12.335	146	67156	19.971	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	15303	19.971	ug/l	93
89) 1,2,4-Trichlorobenzene	13.585	180	44288	19.865	ug/l	98
90) Hexachlorobutadiene	13.725	225	17089	21.467	ug/l	98
91) Naphthalene	13.774	128	158479	19.275	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	43091	19.954	ug/l	98

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

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