

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092723\
 Data File : VX037931.D
 Acq On : 27 Sep 2023 18:27
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/28/2023
 Supervised By : Mahesh Dadoda 09/28/2023

Quant Time: Sep 28 05:45:02 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X092723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Sep 28 03:42:12 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	45432	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	251746	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	242951	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	97039	29.631	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.767%		
60) 4-Bromofluorobenzene	11.079	95	115026	29.043	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	96.800%		
63) Toluene-d8	8.647	98	317465	30.270	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.900%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	46644	19.585	ug/l	99
3) Chloromethane	1.294	50	50801	19.917	ug/l	92
4) Vinyl Chloride	1.374	62	56665	19.845	ug/l	96
5) Bromomethane	1.611	94	45337	20.611	ug/l	99
6) Chloroethane	1.691	64	37980	19.806	ug/l	94
7) Trichlorofluoromethane	1.892	101	94045	19.954	ug/l	96
8) Diethyl Ether	2.136	74	34017	19.563	ug/l	90
9) 1,1,2-Trichlorotrifluo...	2.331	101	46696	19.433	ug/l	98
10) 1,1-Dichloroethene	2.325	96	46371	19.714	ug/l	87
11) Methyl Iodide	2.453	142	60761	19.086	ug/l	98
12) Methyl Acetate	2.703	43	95851	20.048	ug/l	99
13) Acrolein	2.233	56	55182	100.017	ug/l	93
14) Acrylonitrile	3.062	53	130834	99.112	ug/l	97
15) Acetone	2.373	58	38596	101.081	ug/l	90
16) Carbon Disulfide	2.514	76	106826	18.611	ug/l	98
17) Allyl chloride	2.666	41	69922	19.417	ug/l	97
18) Methylene Chloride	2.788	84	55208	19.583	ug/l	94
19) trans-1,2-Dichloroethene	3.093	96	51763	19.525	ug/l	96
20) Diisopropyl ether	3.757	45	153452	19.960	ug/l #	83
21) 1,1-Dichloroethane	3.611	63	92159	19.840	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	61530	19.547	ug/l	97
23) tert-Butyl Alcohol	2.953	59	52998	96.252	ug/l #	1
24) Methyl tert-Butyl Ether	3.111	73	160612	19.727	ug/l	96
25) Chloroform	5.099	83	100946	19.761	ug/l	98
26) Cyclohexane	5.470	56	76826	19.435	ug/l #	97
29) 1,1-Dichloropropene	5.696	75	72463	19.912	ug/l	98
30) 2-Butanone	4.550	43	175544	100.515	ug/l	96
31) 2,2-Dichloropropane	4.477	77	72806	19.859	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	86172	19.762	ug/l	98
33) Carbon Tetrachloride	5.678	117	72727	19.483	ug/l	97
34) Benzene	6.037	78	219633	20.204	ug/l	98
35) Methacrylonitrile	4.922	41	35324	19.238	ug/l	93
36) 1,2-Dichloroethane	6.092	62	77830	20.239	ug/l	98
37) Trichloroethene	7.129	130	59780	19.933	ug/l	96
38) Methylcyclohexane	7.385	83	89663	19.602	ug/l	95
39) 1,2-Dichloropropane	7.434	63	55454	19.939	ug/l	99
40) Dibromomethane	7.580	93	40359	19.666	ug/l	96
41) Bromodichloromethane	7.824	83	72664	19.394	ug/l	99
42) Vinyl Acetate	3.721	43	551560	100.184	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	67053	19.421	ug/l	99
44) Isopropyl Acetate	6.342	43	111803	19.574	ug/l	96
45) 1,4-Dioxane	7.659	88	26009	395.156	ug/l #	1
46) Methyl methacrylate	7.696	41	54072	19.915	ug/l	93
47) n-amyl Acetate	10.841	43	103660	19.290	ug/l	96
48) t-1,3-Dichloropropene	8.982	75	76446	18.782	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	84443	19.318	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	57437	19.585	ug/l	98
51) Ethyl methacrylate	9.116	69	83128	19.237	ug/l	96
52) 1,3-Dichloropropane	9.311	76	93911	19.962	ug/l	98
53) Dibromochloromethane	9.519	129	57252	18.942	ug/l	99
54) 1,2-Dibromoethane	9.610	107	63273	19.882	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	205188	97.409	ug/l	99
56) Bromoform	10.799	173	39946	17.572	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	364210	102.407	ug/l	96
59) 2-Hexanone	9.433	43	271288	100.443	ug/l	96
61) Tetrachloroethene	9.275	164	51093	19.762	ug/l	97
62) Toluene	8.720	91	252867	20.065	ug/l	99
64) Chlorobenzene	10.079	112	155928	19.834	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	55996	19.622	ug/l	97
66) Ethyl Benzene	10.195	91	277160	19.927	ug/l	97
67) m/p-Xylenes	10.299	106	217689	39.730	ug/l	99
68) o-Xylene	10.640	106	103964	19.594	ug/l	96
69) Styrene	10.652	104	173195	19.457	ug/l	98
70) Isopropylbenzene	10.963	105	278590	19.784	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	91693	19.757	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	79545m	19.520	ug/l	
73) Bromobenzene	11.195	156	68541	19.190	ug/l	93
74) n-propylbenzene	11.305	91	333228	19.808	ug/l	100
75) 2-Chlorotoluene	11.366	91	192616	19.557	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	237565	19.564	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	22456	17.400	ug/l	95
78) 4-Chlorotoluene	11.451	91	225544	19.522	ug/l	98
79) tert-butylbenzene	11.713	119	232863	19.484	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	238197	19.732	ug/l	98
81) sec-Butylbenzene	11.890	105	301501	19.616	ug/l	99
82) p-Isopropyltoluene	12.006	119	251222	19.469	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	133699	19.373	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	135848	19.426	ug/l	98
85) n-Butylbenzene	12.335	91	229235	18.987	ug/l	100
86) Hexachloroethane	12.536	117	37885	18.020	ug/l	95
87) 1,2-Dichlorobenzene	12.335	146	133080	19.572	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	17402	18.825	ug/l	84
89) 1,2,4-Trichlorobenzene	13.585	180	88807	19.197	ug/l	99
90) Hexachlorobutadiene	13.725	225	38622	19.004	ug/l	98
91) Naphthalene	13.774	128	278558	19.854	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	88462	19.641	ug/l	98

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

