

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072823\
 Data File : VX036693.D
 Acq On : 28 Jul 2023 09:20
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/28/2023
 Supervised By : Mahesh Dadoda 07/31/2023

Quant Time: Jul 28 16:15:13 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 14 04:32:22 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	34701	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	208623	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	188425	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	85173	29.573	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	98.567%	
60) 4-Bromofluorobenzene	11.079	95	94615	30.956	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	103.200%	
63) Toluene-d8	8.647	98	255151	29.427	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	98.100%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	49953	25.765	ug/l	100
3) Chloromethane	1.301	50	46801	17.644	ug/l	96
4) Vinyl Chloride	1.374	62	49658	18.155	ug/l	99
5) Bromomethane	1.599	94	30904m	11.033	ug/l	
6) Chloroethane	1.685	64	28978	15.565	ug/l	91
7) Trichlorofluoromethane	1.886	101	80699	18.186	ug/l	98
8) Diethyl Ether	2.136	74	28623	15.524	ug/l	82
9) 1,1,2-Trichlorotrifluo...	2.325	101	46591	23.190	ug/l	95
10) 1,1-Dichloroethene	2.319	96	42988	21.169	ug/l	96
11) Methyl Iodide	2.453	142	48068	20.773	ug/l	98
12) Methyl Acetate	2.703	43	97965	20.524	ug/l	96
13) Acrolein	2.239	56	45662	116.612	ug/l	94
14) Acrylonitrile	3.062	53	137057	102.438	ug/l	98
15) Acetone	2.380	58	52342	138.181	ug/l	94
16) Carbon Disulfide	2.508	76	118384	24.029	ug/l	99
17) Allyl chloride	2.660	41	79207	21.988	ug/l	95
18) Methylene Chloride	2.788	84	49936	20.422	ug/l	97
19) trans-1,2-Dichloroethene	3.087	96	48615	21.903	ug/l	97
20) Diisopropyl ether	3.757	45	155861	21.229	ug/l #	93
21) 1,1-Dichloroethane	3.611	63	89577	20.927	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	57871	21.664	ug/l	100
23) tert-Butyl Alcohol	2.959	59	73752	118.705	ug/l #	1
24) Methyl tert-Butyl Ether	3.111	73	164692	22.302	ug/l	99
25) Chloroform	5.086	83	94300	21.309	ug/l	98
26) Cyclohexane	5.471	56	77004	23.449	ug/l #	96
29) 1,1-Dichloropropene	5.690	75	68721	21.844	ug/l	100
30) 2-Butanone	4.556	43	219776	110.951	ug/l	99
31) 2,2-Dichloropropane	4.477	77	85356	24.741	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	85673	22.918	ug/l	98
33) Carbon Tetrachloride	5.672	117	73222	22.959	ug/l	98
34) Benzene	6.038	78	199110	20.533	ug/l	99
35) Methacrylonitrile	4.916	41	40106	19.515	ug/l	96
36) 1,2-Dichloroethane	6.086	62	73242	19.671	ug/l	98
37) Trichloroethene	7.123	130	53678	21.032	ug/l	97
38) Methylcyclohexane	7.379	83	86280	23.575	ug/l	98
39) 1,2-Dichloropropane	7.428	63	51448	19.572	ug/l	98
40) Dibromomethane	7.580	93	37582	19.739	ug/l	98
41) Bromodichloromethane	7.818	83	75743	21.920	ug/l	99
42) Vinyl Acetate	3.721	43	618297	103.340	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	76597	19.866	ug/l	96
44) Isopropyl Acetate	6.336	43	126885	20.635	ug/l	96
45) 1,4-Dioxane	7.659	88	28638	410.299	ug/l #	1
46) Methyl methacrylate	7.690	41	59301	20.178	ug/l	94
47) n-amyl Acetate	10.842	43	107653	20.641	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	84304	22.244	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	89208	21.790	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	52287	20.230	ug/l	97
51) Ethyl methacrylate	9.116	69	86327	21.274	ug/l	98
52) 1,3-Dichloropropane	9.305	76	89111	20.430	ug/l	100
53) Dibromochloromethane	9.519	129	57695	22.116	ug/l	99
54) 1,2-Dibromoethane	9.610	107	55949	20.606	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	199596	91.460	ug/l	98
56) Bromoform	10.799	173	41950	23.113	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	380371	97.622	ug/l	98
59) 2-Hexanone	9.427	43	304998	102.893	ug/l	98
61) Tetrachloroethene	9.275	164	47304	20.960	ug/l	98
62) Toluene	8.714	91	219632	20.775	ug/l	97
64) Chlorobenzene	10.079	112	134710	20.467	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	53208	22.384	ug/l	98
66) Ethyl Benzene	10.195	91	247013	21.498	ug/l	98
67) m/p-Xylenes	10.299	106	189505	42.307	ug/l	98
68) o-Xylene	10.640	106	92607	20.831	ug/l	96
69) Styrene	10.653	104	154548	21.442	ug/l	98
70) Isopropylbenzene	10.963	105	241185	21.783	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	81019	20.048	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	69202m	18.479	ug/l	
73) Bromobenzene	11.195	156	55323	20.213	ug/l	98
74) n-propylbenzene	11.305	91	288383	22.129	ug/l	98
75) 2-Chlorotoluene	11.366	91	170254	21.483	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	205888	21.640	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	29120	23.680	ug/l	84
78) 4-Chlorotoluene	11.451	91	196445	21.771	ug/l	98
79) tert-butylbenzene	11.713	119	201354	22.297	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	204993	21.744	ug/l	99
81) sec-Butylbenzene	11.890	105	255001	22.434	ug/l	99
82) p-Isopropyltoluene	12.006	119	214236	22.654	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	107640	21.143	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	105708	20.837	ug/l	99
85) n-Butylbenzene	12.329	91	191080	22.197	ug/l	98
86) Hexachloroethane	12.536	117	41384	26.431	ug/l	94
87) 1,2-Dichlorobenzene	12.335	146	104565	20.477	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.939	75	19521	21.482	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	64672	20.083	ug/l	99
90) Hexachlorobutadiene	13.725	225	26899	22.998	ug/l	98
91) Naphthalene	13.774	128	222176	19.663	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	64688	19.902	ug/l	98

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

