

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031424\
 Data File : VX040630.D
 Acq On : 14 Mar 2024 09:43
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

03/15/2024
 Supervised By :Mahesh
 Dadoda

Quant Time: Mar 15 05:41:21 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 05 13:21:29 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	16791	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	101481	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	90514	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	54315	32.388	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	107.967%
60) 4-Bromofluorobenzene	11.079	95	47078	30.322	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	101.067%
63) Toluene-d8	8.647	98	111492	27.873	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	92.900%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	20497	17.998	ug/l	99
3) Chloromethane	1.294	50	21180	18.151	ug/l	96
4) Vinyl Chloride	1.374	62	22840	18.112	ug/l	99
5) Bromomethane	1.605	94	16726	21.717	ug/l	96
6) Chloroethane	1.685	64	14750	19.908	ug/l	94
7) Trichlorofluoromethane	1.886	101	36204	18.856	ug/l	97
8) Diethyl Ether	2.130	74	11622	17.828	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.331	101	20476	19.469	ug/l	94
10) 1,1-Dichloroethene	2.319	96	19120	19.095	ug/l	87
11) Methyl Iodide	2.453	142	21532	17.780	ug/l	93
12) Methyl Acetate	2.697	43	30065	18.228	ug/l	98
13) Acrolein	2.233	56	28970	93.167	ug/l	99
14) Acrylonitrile	3.056	53	58109	89.470	ug/l	98
15) Acetone	2.373	58	17640m	95.019	ug/l	
16) Carbon Disulfide	2.508	76	48997	17.805	ug/l	99
17) Allyl chloride	2.660	41	34294	18.559	ug/l	86
18) Methylene Chloride	2.788	84	21380	18.702	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	20247	18.521	ug/l	95
20) Diisopropyl ether	3.757	45	68314	18.486	ug/l	93
21) 1,1-Dichloroethane	3.605	63	40739	19.158	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	23357	18.399	ug/l	94
23) tert-Butyl Alcohol	2.947	59	24769	80.717	ug/l #	100
24) Methyl tert-Butyl Ether	3.105	73	68465	18.527	ug/l	95
25) Chloroform	5.080	83	43977	18.895	ug/l	96
26) Cyclohexane	5.464	56	31158	18.155	ug/l #	94
29) 1,1-Dichloropropene	5.684	75	31107	17.709	ug/l	98
30) 2-Butanone	4.544	43	89288	83.299	ug/l	98
31) 2,2-Dichloropropane	4.471	77	34705	18.305	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	39490	17.842	ug/l	96
33) Carbon Tetrachloride	5.672	117	32392	17.394	ug/l	99
34) Benzene	6.031	78	82825	17.466	ug/l	99
35) Methacrylonitrile	4.910	41	19080	17.339	ug/l	94
36) 1,2-Dichloroethane	6.080	62	39378	17.961	ug/l	96
37) Trichloroethene	7.117	130	22392	17.572	ug/l	98
38) Methylcyclohexane	7.373	83	32298	17.076	ug/l	98
39) 1,2-Dichloropropane	7.421	63	21661	17.941	ug/l	100
40) Dibromomethane	7.574	93	17312	18.252	ug/l	96
41) Bromodichloromethane	7.812	83	34907	18.499	ug/l	95
42) Vinyl Acetate	3.715	43	314409	85.193	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031424\
 Data File : VX040630.D
 Acq On : 14 Mar 2024 09:43
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

03/15/2024
 Supervised By :Mahesh
 Dadoda

Quant Time: Mar 15 05:41:21 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 05 13:21:29 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.702	43	32904	16.299	ug/l	99
44) Isopropyl Acetate	6.330	43	53861	16.715	ug/l	94
45) 1,4-Dioxane	7.653	88	10408	314.218	ug/l	98
46) Methyl methacrylate	7.684	41	27466	17.161	ug/l	96
47) n-amyl Acetate	10.841	43	45773	16.482	ug/l	96
48) t-1,3-Dichloropropene	8.976	75	31288	15.688	ug/l	95
49) cis-1,3-Dichloropropene	8.360	75	34001	16.735	ug/l	92
50) 1,1,2-Trichloroethane	9.147	97	20590	16.343	ug/l	97
51) Ethyl methacrylate	9.110	69	30909	15.583	ug/l	95
52) 1,3-Dichloropropane	9.305	76	36477	16.967	ug/l	99
53) Dibromochloromethane	9.519	129	24612	17.136	ug/l	96
54) 1,2-Dibromoethane	9.604	107	24356	17.471	ug/l	97
55) 2-Chloroethyl vinyl ether	8.238	63	71148	70.437	ug/l	98
56) Bromoform	10.799	173	18236	17.901	ug/l	98
58) 4-Methyl-2-Pentanone	8.567	43	163808	81.273	ug/l	99
59) 2-Hexanone	9.427	43	143018	87.848	ug/l	96
61) Tetrachloroethene	9.269	164	20296	18.892	ug/l	96
62) Toluene	8.714	91	86414	17.334	ug/l	99
64) Chlorobenzene	10.079	112	57538	18.884	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.159	131	21776	18.738	ug/l	96
66) Ethyl Benzene	10.189	91	108583	18.891	ug/l	97
67) m/p-Xylenes	10.299	106	81001	38.162	ug/l	98
68) o-Xylene	10.640	106	37419	18.313	ug/l	91
69) Styrene	10.652	104	65126	18.971	ug/l	97
70) Isopropylbenzene	10.957	105	106206	19.236	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	35516	18.349	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	32785m	18.825	ug/l	
73) Bromobenzene	11.195	156	24562	18.792	ug/l	98
74) n-propylbenzene	11.305	91	132661	19.455	ug/l	99
75) 2-Chlorotoluene	11.360	91	78958	19.512	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	91651	18.855	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	9745	18.005	ug/l	83
78) 4-Chlorotoluene	11.451	91	92083	19.076	ug/l	98
79) tert-butylbenzene	11.713	119	86484	19.063	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	91158	19.034	ug/l	98
81) sec-Butylbenzene	11.890	105	113534	18.954	ug/l	100
82) p-Isopropyltoluene	12.006	119	93572	19.085	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	48459	19.054	ug/l	97
84) 1,4-Dichlorobenzene	12.042	146	49775	19.138	ug/l	98
85) n-Butylbenzene	12.329	91	88198	18.487	ug/l	98
86) Hexachloroethane	12.536	117	16222	18.962	ug/l	91
87) 1,2-Dichlorobenzene	12.335	146	46994	19.015	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	9474	18.306	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	30557	18.363	ug/l	94
90) Hexachlorobutadiene	13.725	225	12842	19.086	ug/l	98
91) Naphthalene	13.774	128	94788	17.463	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	31324	19.091	ug/l	95

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

