

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011822\
 Data File : VX026495.D
 Acq On : 18 Jan 2022 12:36
 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 01/19/2022
 Supervised By : Mahesh Dadoda 01/19/2022

Quant Time: Jan 19 07:30:38 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jan 10 12:50:55 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	19986	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	112111	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	94973	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	46352	28.842	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	96.133%	
60) 4-Bromofluorobenzene	11.079	95	47195	29.776	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	99.267%	
63) Toluene-d8	8.647	98	130956	30.015	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	100.067%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	25104	20.854	ug/l	99
3) Chloromethane	1.294	50	22601	21.490	ug/l	97
4) Vinyl Chloride	1.380	62	24510	21.082	ug/l	94
5) Bromomethane	1.617	94	11775	22.495	ug/l	92
6) Chloroethane	1.691	64	14314	21.697	ug/l	96
7) Trichlorofluoromethane	1.892	101	37951	20.597	ug/l	100
8) Diethyl Ether	2.136	74	13298	20.226	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.337	101	24674	21.455	ug/l	99
10) 1,1-Dichloroethene	2.325	96	22773	21.197	ug/l	96
11) Methyl Iodide	2.459	142	28791	24.676	ug/l	97
12) Methyl Acetate	2.703	43	46901	20.838	ug/l	99
13) Acrolein	2.239	56	26113	111.952	ug/l	96
14) Acrylonitrile	3.068	53	66099	105.288	ug/l	99
15) Acetone	2.386	58	22926	116.258	ug/l	91
16) Carbon Disulfide	2.520	76	60917	20.079	ug/l	98
17) Allyl chloride	2.666	41	42527	20.569	ug/l	99
18) Methylene Chloride	2.794	84	24384	20.607	ug/l	99
19) trans-1,2-Dichloroethene	3.093	96	24450	21.172	ug/l	99
20) Diisopropyl ether	3.757	45	84335	20.987	ug/l #	85
21) 1,1-Dichloroethane	3.611	63	46286	20.921	ug/l	98
22) cis-1,2-Dichloroethene	4.495	96	28414	21.030	ug/l	97
23) tert-Butyl Alcohol	2.983	59	22251	97.717	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	81297	20.348	ug/l	100
25) Chloroform	5.092	83	50059	21.837	ug/l	99
26) Cyclohexane	5.470	56	42272	20.889	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	35564	20.539	ug/l	99
30) 2-Butanone	4.556	43	102344	101.776	ug/l	99
31) 2,2-Dichloropropane	4.477	77	34169	19.052	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	42024	19.935	ug/l	99
33) Carbon Tetrachloride	5.678	117	37580	20.123	ug/l	99
34) Benzene	6.043	78	101045	21.046	ug/l	97
35) Methacrylonitrile	4.916	41	21552	20.455	ug/l	95
36) 1,2-Dichloroethane	6.086	62	38539	19.875	ug/l	98
37) Trichloroethene	7.129	130	28203	20.340	ug/l	98
38) Methylcyclohexane	7.379	83	43691	21.055	ug/l	98
39) 1,2-Dichloropropane	7.427	63	25543	20.805	ug/l	98
40) Dibromomethane	7.580	93	17784	20.620	ug/l	99
41) Bromodichloromethane	7.824	83	36719	20.629	ug/l	98
42) Vinyl Acetate	3.721	43	319616	102.588	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011822\
 Data File : VX026495.D
 Acq On : 18 Jan 2022 12:36
 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 01/19/2022
 Supervised By : Mahesh Dadoda 01/19/2022

Quant Time: Jan 19 07:30:38 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jan 10 12:50:55 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	38104	20.841	ug/l	98
44) Isopropyl Acetate	6.342	43	59352	19.668	ug/l	99
45) 1,4-Dioxane	7.689	88	10116	432.506	ug/l	99
46) Methyl methacrylate	7.696	41	29654	20.033	ug/l	96
47) n-amyl Acetate	10.841	43	45343	20.083	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	34815	19.588	ug/l	92
49) cis-1,3-Dichloropropene	8.366	75	40130	20.419	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	24769	20.887	ug/l	96
51) Ethyl methacrylate	9.116	69	38152	20.178	ug/l	98
52) 1,3-Dichloropropane	9.311	76	43062	20.954	ug/l	100
53) Dibromochloromethane	9.525	129	26249	20.366	ug/l	99
54) 1,2-Dibromoethane	9.610	107	25684	20.422	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	95682	94.601	ug/l	99
56) Bromoform	10.799	173	17065	19.945	ug/l	100
58) 4-Methyl-2-Pentanone	8.573	43	185700	104.827	ug/l	99
59) 2-Hexanone	9.433	43	144874	105.617	ug/l	100
61) Tetrachloroethene	9.275	164	30208	21.580	ug/l	98
62) Toluene	8.720	91	106083	20.922	ug/l	100
64) Chlorobenzene	10.079	112	64292	20.886	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	24287	20.720	ug/l	100
66) Ethyl Benzene	10.195	91	118191	20.833	ug/l	99
67) m/p-Xylenes	10.299	106	89718	42.565	ug/l	99
68) o-Xylene	10.640	106	43664	21.359	ug/l	100
69) Styrene	10.658	104	71572	21.063	ug/l	98
70) Isopropylbenzene	10.963	105	115908	21.133	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	31464	21.051	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	32293m	21.304	ug/l	
73) Bromobenzene	11.201	156	26371	21.005	ug/l	98
74) n-propylbenzene	11.305	91	135481	21.385	ug/l	100
75) 2-Chlorotoluene	11.366	91	80045	21.032	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	96750	21.118	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	8619	18.906	ug/l	98
78) 4-Chlorotoluene	11.457	91	91691	21.132	ug/l	99
79) tert-butylbenzene	11.713	119	88060	20.766	ug/l	100
80) 1,2,4-Trimethylbenzene	11.756	105	94369	20.854	ug/l	99
81) sec-Butylbenzene	11.890	105	118119	21.264	ug/l	99
82) p-Isopropyltoluene	12.012	119	98291	20.946	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	49087	21.008	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	49393	21.096	ug/l	100
85) n-Butylbenzene	12.335	91	85548	21.064	ug/l	99
86) Hexachloroethane	12.542	117	14165	19.994	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	47203	21.025	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	7322	19.199	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	30534	20.775	ug/l	99
90) Hexachlorobutadiene	13.725	225	13212	20.596	ug/l	95
91) Naphthalene	13.780	128	103745	20.419	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	30469	20.842	ug/l	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011822\
 Data File : VX026495.D
 Acq On : 18 Jan 2022 12:36
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Quant Time: Jan 19 07:30:38 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jan 10 12:50:55 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 01/19/2022
 Supervised By : Mahesh Dadoda 01/19/2022

