

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091622\
 Data File : VX031405.D
 Acq On : 16 Sep 2022 12:53
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX091622

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Sep 16 13:17:55 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X091622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 16 12:41:56 2022
 Response via : Initial Calibration

09/17/2022
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	4.897	128	13106	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	73588	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	68873	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	35779	30.302	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.000%
60) 4-Bromofluorobenzene	11.079	95	36850	26.540	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	88.467%
63) Toluene-d8	8.647	98	111419	29.552	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.500%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	14442	20.338	ug/l	100
3) Chloromethane	1.288	50	20254	20.694	ug/l	97
4) Vinyl Chloride	1.374	62	23333	20.572	ug/l	97
5) Bromomethane	1.611	94	36302	24.166	ug/l	97
6) Chloroethane	1.685	64	22712	16.981	ug/l	95
7) Trichlorofluoromethane	1.886	101	52075	18.851	ug/l	92
8) Diethyl Ether	2.130	74	17838	19.370	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.325	101	17724	18.837	ug/l	95
10) 1,1-Dichloroethene	2.319	96	16353	18.567	ug/l	89
11) Methyl Iodide	2.453	142	16174	15.229	ug/l	98
12) Methyl Acetate	2.703	43	26613	19.635	ug/l	91
13) Acrolein	2.239	56	17258	95.982	ug/l	97
14) Acrylonitrile	3.069	53	52044	94.160	ug/l	99
15) Acetone	2.386	58	15382	99.338	ug/l	83
16) Carbon Disulfide	2.514	76	44408	19.533	ug/l	97
17) Allyl chloride	2.666	41	27554	19.301	ug/l	87
18) Methylene Chloride	2.788	84	19884	19.516	ug/l	95
19) trans-1,2-Dichloroethene	3.093	96	19574	18.891	ug/l	92
20) Diisopropyl ether	3.757	45	60398	18.014	ug/l	99
21) 1,1-Dichloroethane	3.611	63	33808	19.132	ug/l	100
22) cis-1,2-Dichloroethene	4.489	96	22188	18.801	ug/l	96
23) tert-Butyl Alcohol	2.983	59	27401	96.265	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	61253	18.353	ug/l	96
25) Chloroform	5.093	83	37313	18.512	ug/l	99
26) Cyclohexane	5.471	56	29809	18.680	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	26708	18.031	ug/l	97
30) 2-Butanone	4.556	43	78230	93.615	ug/l	98
31) 2,2-Dichloropropane	4.471	77	30259	18.265	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	32461	17.717	ug/l	96
33) Carbon Tetrachloride	5.678	117	28855	17.821	ug/l	99
34) Benzene	6.038	78	78486	18.005	ug/l	95
35) Methacrylonitrile	4.922	41	15521	18.545	ug/l	99
36) 1,2-Dichloroethane	6.080	62	28588	17.370	ug/l	100
37) Trichloroethene	7.123	130	21293	18.042	ug/l	92
38) Methylcyclohexane	7.379	83	32771	18.927	ug/l	97
39) 1,2-Dichloropropane	7.428	63	18810	17.986	ug/l	100
40) Dibromomethane	7.580	93	14772	18.267	ug/l	91
41) Bromodichloromethane	7.824	83	27766	17.500	ug/l	99
42) Vinyl Acetate	3.721	43	263987	88.057	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091622\
 Data File : VX031405.D
 Acq On : 16 Sep 2022 12:53
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX091622

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

09/17/2022
 Supervised By :Mahesh
 Dadoda

Quant Time: Sep 16 13:17:55 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X091622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 16 12:41:56 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	29836	18.214	ug/l	99
44) Isopropyl Acetate	6.342	43	48612	17.857	ug/l	93
45) 1,4-Dioxane	7.684	88	10458	355.929	ug/l	93
46) Methyl methacrylate	7.690	41	21593	17.719	ug/l	93
47) n-amyl Acetate	10.842	43	41566	17.115	ug/l	95
48) t-1,3-Dichloropropene	8.976	75	29948	16.555	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	31831	17.300	ug/l	93
50) 1,1,2-Trichloroethane	9.153	97	20705	16.929	ug/l	97
51) Ethyl methacrylate	9.116	69	31009	16.965	ug/l	92
52) 1,3-Dichloropropane	9.311	76	34544	17.395	ug/l	99
53) Dibromochloromethane	9.525	129	21776	15.958	ug/l	99
54) 1,2-Dibromoethane	9.610	107	21616	16.011	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	80141	85.355	ug/l	97
56) Bromoform	10.799	173	15313	14.987	ug/l	95
58) 4-Methyl-2-Pentanone	8.574	43	158496	96.059	ug/l	96
59) 2-Hexanone	9.433	43	120560	95.406	ug/l	97
61) Tetrachloroethene	9.275	164	21419	19.172	ug/l	94
62) Toluene	8.720	91	90609	18.187	ug/l	97
64) Chlorobenzene	10.079	112	55201	17.819	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	20557	18.041	ug/l	97
66) Ethyl Benzene	10.195	91	100211	18.081	ug/l	100
67) m/p-Xylenes	10.305	106	79377	33.784	ug/l	99
68) o-Xylene	10.640	106	38875	17.361	ug/l	97
69) Styrene	10.653	104	62322	16.328	ug/l	98
70) Isopropylbenzene	10.963	105	99850	16.742	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	32376	17.505	ug/l	95
72) 1,2,3-Trichloropropane	11.238	75	26528m	15.609	ug/l	
73) Bromobenzene	11.201	156	24103	16.773	ug/l	97
74) n-propylbenzene	11.305	91	120698	17.387	ug/l	98
75) 2-Chlorotoluene	11.366	91	68591	16.873	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	84697	16.033	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	9029	15.710	ug/l	95
78) 4-Chlorotoluene	11.457	91	80070	16.493	ug/l	99
79) tert-butylbenzene	11.713	119	82627	16.538	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	82072	16.024	ug/l	97
81) sec-Butylbenzene	11.890	105	105834	16.682	ug/l	100
82) p-Isopropyltoluene	12.012	119	86802	16.030	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	47263	16.611	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	46519	15.920	ug/l	99
85) n-Butylbenzene	12.335	91	76982	16.914	ug/l	96
86) Hexachloroethane	12.542	117	14782	16.254	ug/l	90
87) 1,2-Dichlorobenzene	12.335	146	45779	16.203	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	6667	16.921	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	27615	17.797	ug/l	99
90) Hexachlorobutadiene	13.725	225	10337	18.167	ug/l	100
91) Naphthalene	13.780	128	98198	17.550	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	27384	17.592	ug/l	98

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

