

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062424\
 Data File : VX041997.D
 Acq On : 24 Jun 2024 12:13
 Operator : JC/MD
 Sample : VX0624WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0624WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/25/2024
 Supervised By : Mahesh Dadoda 06/25/2024

Quant Time: Jun 25 05:56:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 15 04:02:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	29941	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	169527	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	159990	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	63050	30.590	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.967%			
60) 4-Bromofluorobenzene	11.079	95	73989	29.876	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.600%			
63) Toluene-d8	8.647	98	204337	29.852	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	38757	19.997	ug/l	99
3) Chloromethane	1.300	50	41377	19.098	ug/l	96
4) Vinyl Chloride	1.374	62	40784	19.249	ug/l	99
5) Bromomethane	1.593	94	21153	18.677	ug/l	99
6) Chloroethane	1.666	64	21396	23.636	ug/l	98
7) Trichlorofluoromethane	1.873	101	52840	19.803	ug/l	98
8) Diethyl Ether	2.136	74	22847	19.785	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	37760	20.816	ug/l	100
10) 1,1-Dichloroethene	2.306	96	35735	19.529	ug/l	99
11) Methyl Iodide	2.440	142	44034	18.489	ug/l	99
12) Methyl Acetate	2.709	43	49484	21.211	ug/l	99
13) Acrolein	2.239	56	45113	95.904	ug/l	99
14) Acrylonitrile	3.068	53	112794	101.866	ug/l	99
15) Acetone	2.386	58	35167	111.023	ug/l	99
16) Carbon Disulfide	2.501	76	76531	19.084	ug/l	100
17) Allyl chloride	2.660	41	58439	21.029	ug/l	96
18) Methylene Chloride	2.782	84	40184	19.146	ug/l	90
19) trans-1,2-Dichloroethene	3.087	96	36313	19.810	ug/l	97
20) Diisopropyl ether	3.763	45	115599	20.237	ug/l	94
21) 1,1-Dichloroethane	3.605	63	65953	20.213	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	44266	19.950	ug/l	99
23) tert-Butyl Alcohol	2.989	59	47914	116.390	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	114978	20.313	ug/l	99
25) Chloroform	5.092	83	67460	20.344	ug/l	98
26) Cyclohexane	5.464	56	56631	19.983	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	45290	20.469	ug/l	98
30) 2-Butanone	4.562	43	160837	108.790	ug/l	100
31) 2,2-Dichloropropane	4.471	77	52247	21.550	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	57927	20.653	ug/l	99
33) Carbon Tetrachloride	5.672	117	49983	20.663	ug/l	98
34) Benzene	6.031	78	149286	20.254	ug/l	98
35) Methacrylonitrile	4.928	41	30226	20.355	ug/l	98
36) 1,2-Dichloroethane	6.086	62	47467	20.672	ug/l	99
37) Trichloroethene	7.123	130	41032	20.381	ug/l	97
38) Methylcyclohexane	7.379	83	59244	20.215	ug/l	99
39) 1,2-Dichloropropane	7.427	63	35960	20.481	ug/l	95
40) Dibromomethane	7.580	93	26486	20.392	ug/l	98
41) Bromodichloromethane	7.818	83	48084	20.665	ug/l	100
42) Vinyl Acetate	3.721	43	517494	104.574	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062424\
 Data File : VX041997.D
 Acq On : 24 Jun 2024 12:13
 Operator : JC/MD
 Sample : VX0624WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0624WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/25/2024
 Supervised By : Mahesh Dadoda 06/25/2024

Quant Time: Jun 25 05:56:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 15 04:02:59 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	56092	20.235	ug/l	98
44) Isopropyl Acetate	6.342	43	84808	20.426	ug/l	99
45) 1,4-Dioxane	7.665	88	20888m	412.733	ug/l	
46) Methyl methacrylate	7.696	41	41552	20.469	ug/l	99
47) n-amyl Acetate	10.841	43	73915	19.836	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	48294	20.158	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	55371	20.604	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	38506	20.389	ug/l	98
51) Ethyl methacrylate	9.116	69	59670	19.889	ug/l	98
52) 1,3-Dichloropropane	9.305	76	63428	20.544	ug/l	100
53) Dibromochloromethane	9.518	129	42284	20.459	ug/l	99
54) 1,2-Dibromoethane	9.610	107	41058	20.616	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	145251	104.016	ug/l	100
56) Bromoform	10.799	173	32783	19.453	ug/l	99
58) 4-Methyl-2-Pentanone	8.573	43	296571	103.447	ug/l	99
59) 2-Hexanone	9.433	43	232316	104.989	ug/l	100
61) Tetrachloroethene	9.268	164	40269	20.002	ug/l	96
62) Toluene	8.720	91	163676	20.217	ug/l	99
64) Chlorobenzene	10.079	112	109119	19.793	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	39132	20.552	ug/l	98
66) Ethyl Benzene	10.195	91	177199	20.020	ug/l	100
67) m/p-Xylenes	10.299	106	143251	40.236	ug/l	100
68) o-Xylene	10.640	106	71427	20.123	ug/l	98
69) Styrene	10.652	104	117516	19.812	ug/l	99
70) Isopropylbenzene	10.963	105	182674	20.468	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	61544	19.925	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	48953m	19.567	ug/l	
73) Bromobenzene	11.195	156	51477	19.774	ug/l	99
74) n-propylbenzene	11.305	91	199144	20.312	ug/l	99
75) 2-Chlorotoluene	11.366	91	126787	20.365	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	151986	20.327	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	17239	18.627	ug/l	94
78) 4-Chlorotoluene	11.451	91	140515	20.318	ug/l	99
79) tert-butylbenzene	11.713	119	160358	20.205	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	153180	20.506	ug/l	98
81) sec-Butylbenzene	11.890	105	190131	20.539	ug/l	100
82) p-Isopropyltoluene	12.006	119	165025	20.343	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	90389	19.473	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	90638	19.617	ug/l	99
85) n-Butylbenzene	12.335	91	123817	19.738	ug/l	100
86) Hexachloroethane	12.536	117	26633	20.104	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	91226	19.433	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	12210	19.111	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	59128	18.607	ug/l	99
90) Hexachlorobutadiene	13.725	225	31255	19.961	ug/l	97
91) Naphthalene	13.774	128	181564	18.910	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	62399	18.961	ug/l	97

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

