

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU103122\
 Data File : VU051644.D
 Acq On : 01 Nov 2022 05:22
 Operator : JC/MD
 Sample : N5319-08
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BHAA1

Quant Time: Nov 01 06:02:29 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR102822WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Nov 01 02:34:58 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.250	114	227437	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	230026	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	126353	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	65600	3.830	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	76.600%
7) Chloroethane-d5	1.909	69	76960	4.308	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	86.200%
11) 1,1-Dichloroethene-d2	2.565	65	23700	3.812	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	76.200%
20) 2-Butanone-d5	4.626	46	320748	51.704	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	103.400%
24) Chloroform-d	5.060	84	167775	4.186	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.800%
26) 1,2-Dichloroethane-d4	5.703	65	95155	4.394	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.800%
32) Benzene-d6	5.729	84	319695	4.404	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.000%
36) 1,2-Dichloropropane-d6	6.690	67	113393	4.467	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	89.400%
41) Toluene-d8	7.899	98	240870	4.220	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.400%
43) trans-1,3-Dichloroprop...	8.179	79	27019	3.481	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	69.600%
46) 2-Hexanone-d5	8.632	63	231382	49.525	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.040%
56) 1,1,2,2-Tetrachloroeth...	10.754	84	112755	4.848	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.000%
66) 1,2-Dichlorobenzene-d4	12.192	152	107201	4.623	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.400%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.600	62	212527	7.076	ug/L #	54
8) Chloroethane	1.932	64	304931	16.719	ug/L	97
10) 1,1,2-Trichloro-1,2,2-...	2.568	101	1583	0.082	ug/L #	48
13) Acetone	2.633	43	174244	55.358	ug/L	98
15) Methyl Acetate	2.964	43	6300	0.765	ug/L #	78
16) Methylene chloride	3.044	84	9119	0.282	ug/L	99
17) Methyl tert-butyl Ether	3.362	73	11577	0.255	ug/L #	1
18) trans-1,2-Dichloroethene	3.353	96	6114	0.288	ug/L	99
19) 1,1-Dichloroethane	3.867	63	46057	1.177	ug/L	98
21) 2-Butanone	4.710	43	79212	16.070	ug/L	96
22) cis-1,2-Dichloroethene	4.665	96	500733	21.326	ug/L	99
27) 1,2-Dichloroethane	5.780	62	469216	18.778	ug/L #	75
30) Cyclohexane	5.385	56	74341	2.585	ug/L	98
35) Methylcyclohexane	6.761	83	101620	3.355	ug/L	98
40) 4-Methyl-2-pentanone	7.793	43	124400	10.623	ug/L	97
44) trans-1,3-Dichloropropene	7.980	75	508094	20.298	ug/L #	1
45) 1,1,2-Trichloroethane	8.372	97	3660	0.214	ug/L #	19
51) Chlorobenzene	9.446	112	6226982	106.128	ug/L	98
52) Ethylbenzene	9.568	91	9310022	103.501	ug/L	100

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

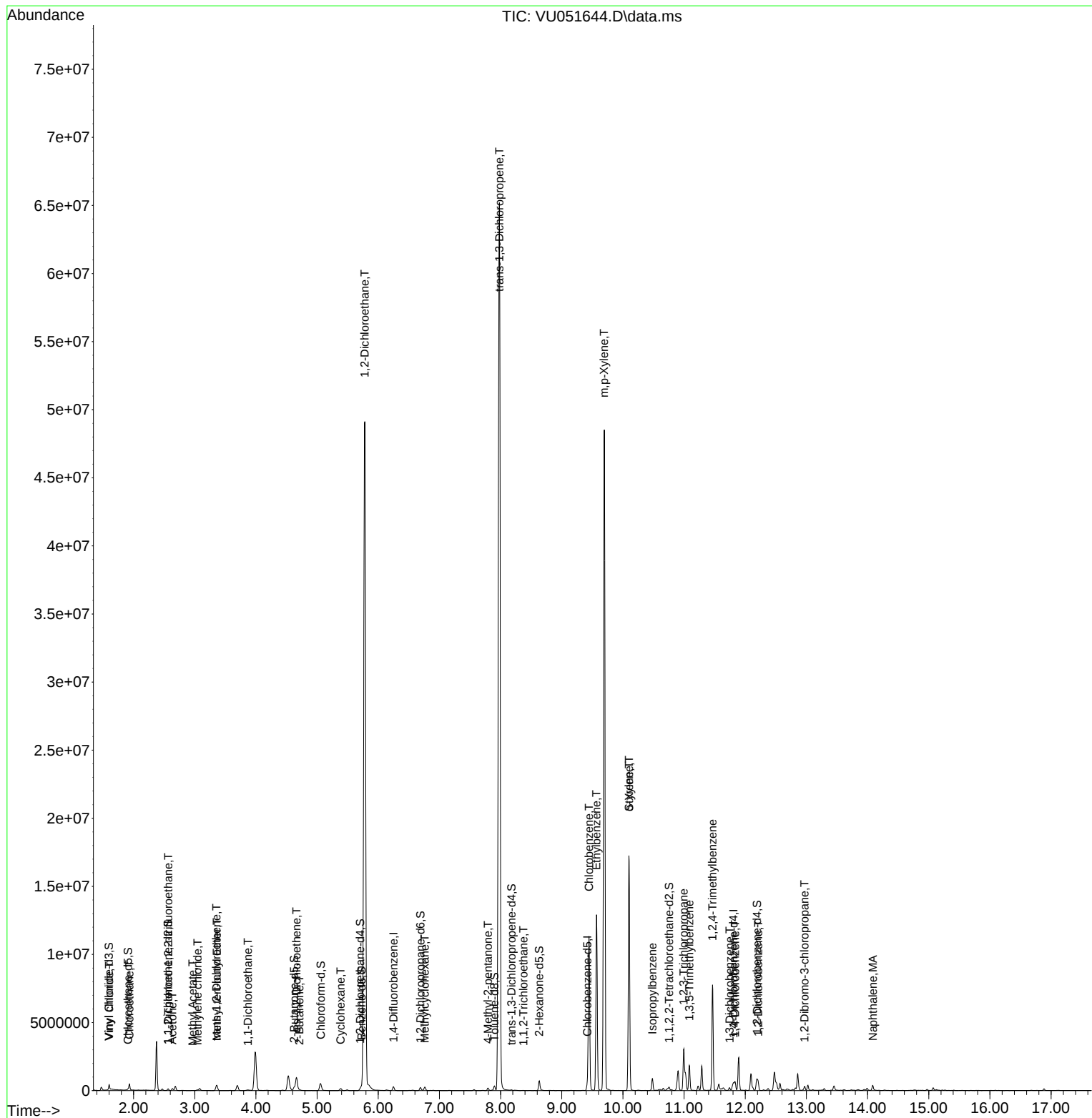
53) m,p-Xylene	9.693	106	14383705	411.686	ug/L #	34
54) o-Xylene	10.099	106	4647596	136.111	ug/L	100
55) Styrene	10.099	104	231292	4.052	ug/L #	1
60) Isopropylbenzene	10.481	105	563558	6.110	ug/L #	86
61) 1,2,3-Trichloropropane	10.992	75	19651	1.203	ug/L #	1
62) 1,3,5-Trimethylbenzene	11.086	105	974742	39.253	ug/L	99
63) 1,2,4-Trimethylbenzene	11.465	105	4234000	59.132	ug/L	100
64) 1,3-Dichlorobenzene	11.745	146	35899	0.782	ug/L	99
65) 1,4-Dichlorobenzene	11.835	146	264756	5.750	ug/L	98
67) 1,2-Dichlorobenzene	12.211	146	224349	5.016	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.970	75	1425	0.424	ug/L #	3
71) Naphthalene	14.085	128	307201	6.549	ug/L	99

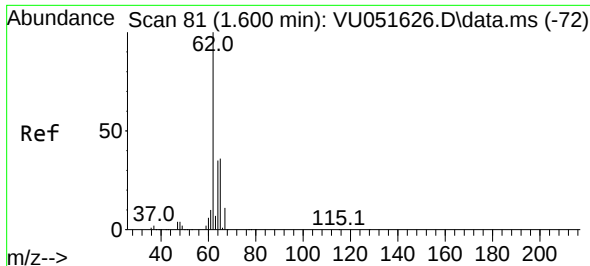
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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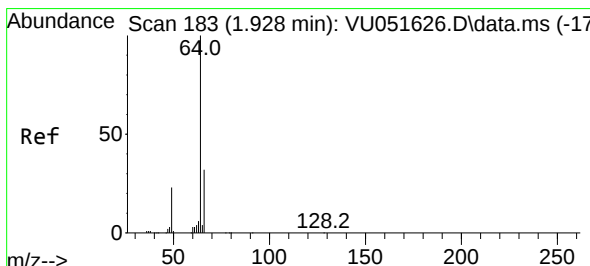
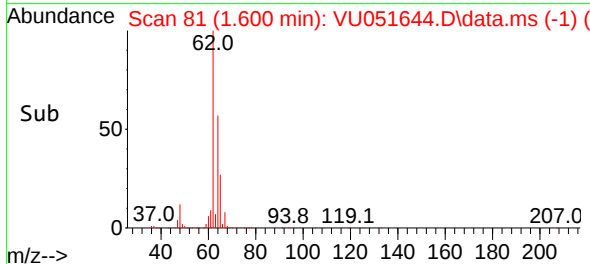
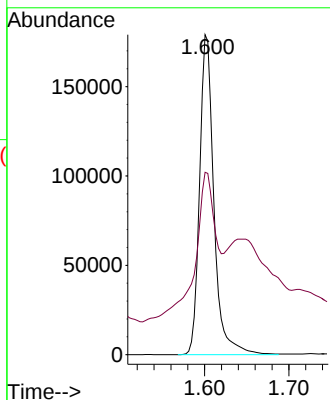
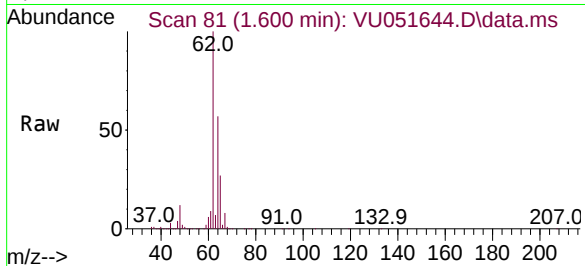




#5
 Vinyl chloride
 Concen: 7.076 ug/L
 RT: 1.600 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VU051644.D
 Acq: 01 Nov 2022 05:22

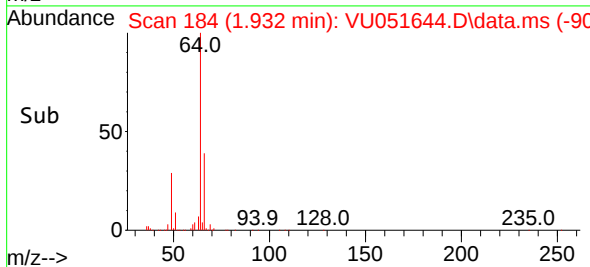
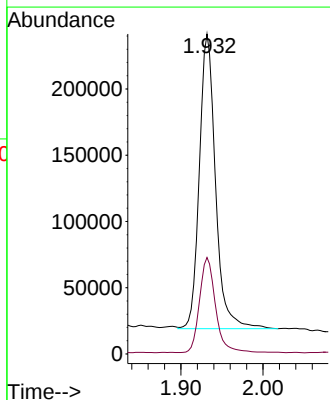
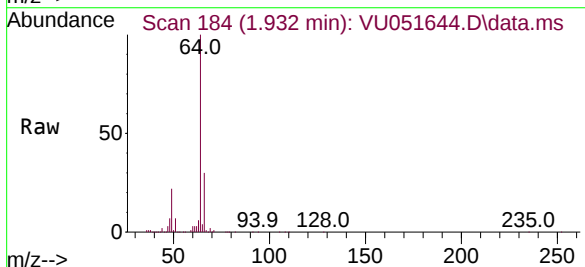
Instrument :
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 ClientSampleId :
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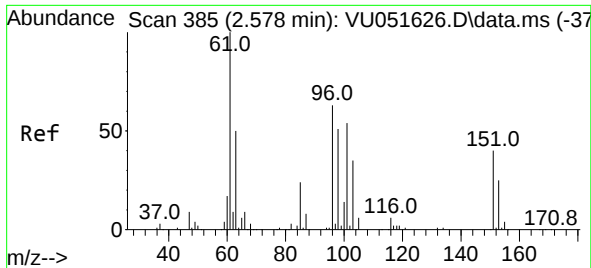
Tgt Ion: 62 Resp: 212527
 Ion Ratio Lower Upper
 62 100
 64 57.0 22.1 41.1#



#8
 Chloroethane
 Concen: 16.719 ug/L
 RT: 1.932 min Scan# 184
 Delta R.T. 0.003 min
 Lab File: VU051644.D
 Acq: 01 Nov 2022 05:22

Tgt Ion: 64 Resp: 304931
 Ion Ratio Lower Upper
 64 100
 66 30.2 22.3 41.5

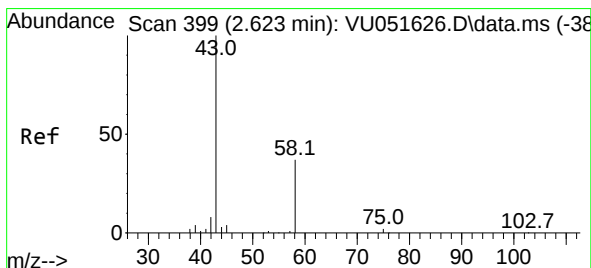
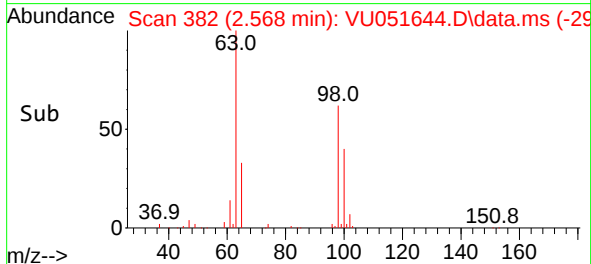
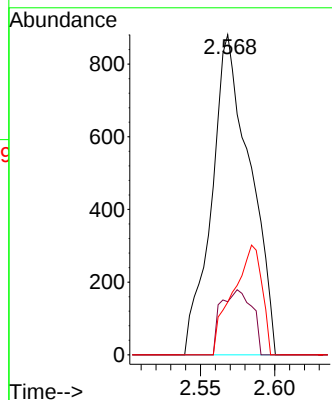
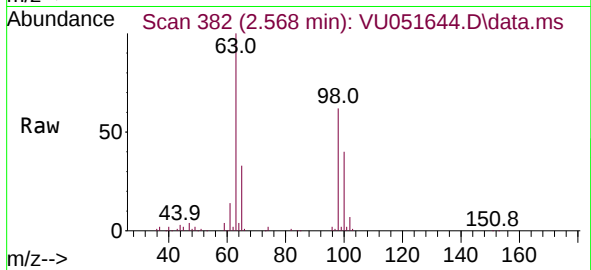




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.082 ug/L
 RT: 2.568 min Scan# 31
 Delta R.T. -0.010 min
 Lab File: VU051644.D
 Acq: 01 Nov 2022 05:22

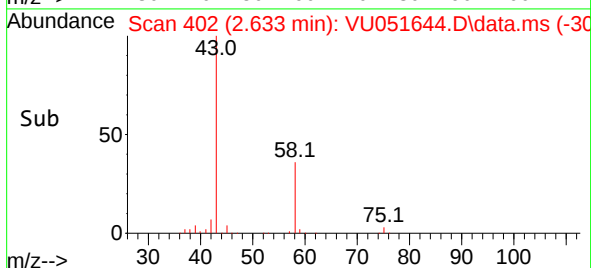
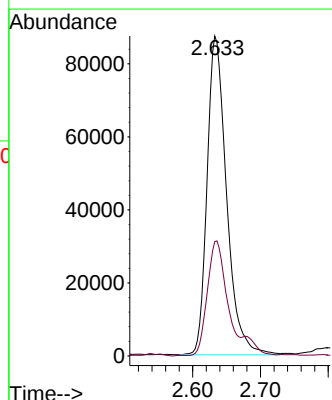
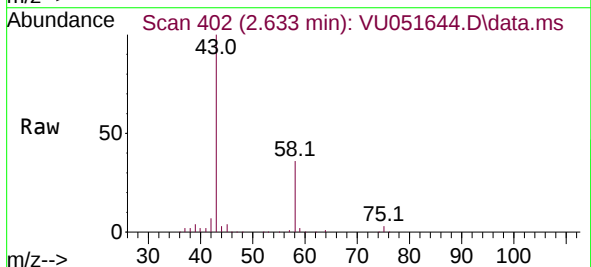
Instrument :
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 ClientSampleId :
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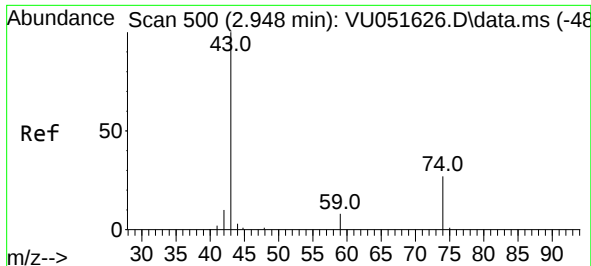
Tgt Ion:101 Resp: 1583
 Ion Ratio Lower Upper
 101 100
 85 16.4 35.6 53.4#
 151 26.0 59.6 89.4#



#13
 Acetone
 Concen: 55.358 ug/L
 RT: 2.633 min Scan# 402
 Delta R.T. 0.010 min
 Lab File: VU051644.D
 Acq: 01 Nov 2022 05:22

Tgt Ion: 43 Resp: 174244
 Ion Ratio Lower Upper
 43 100
 58 35.9 0.0 73.8

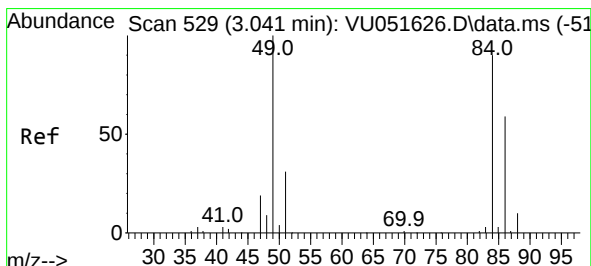
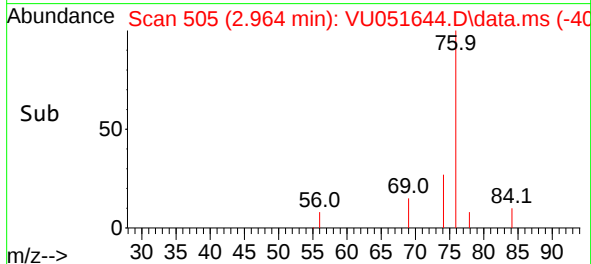
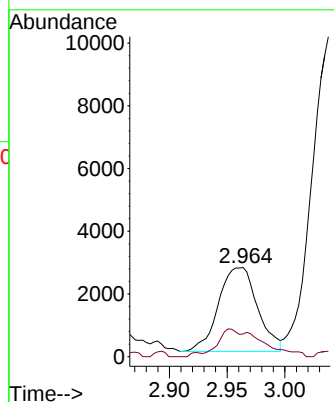
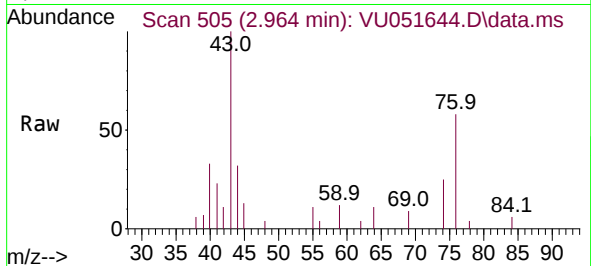




#15
Methyl Acetate
Concen: 0.765 ug/L
RT: 2.964 min Scan# 500
Delta R.T. 0.016 min
Lab File: VU051644.D
Acq: 01 Nov 2022 05:22

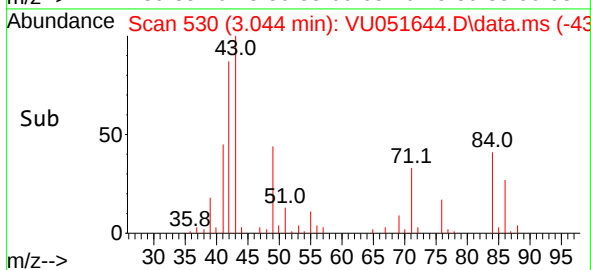
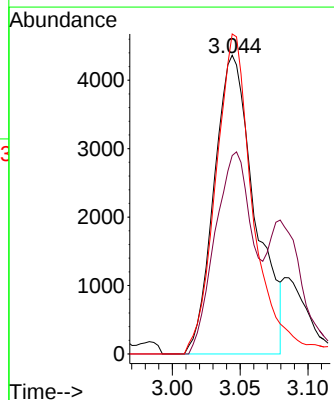
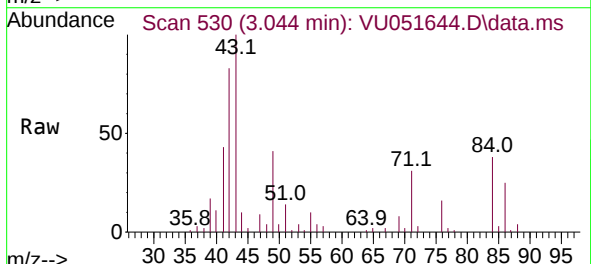
Instrument :
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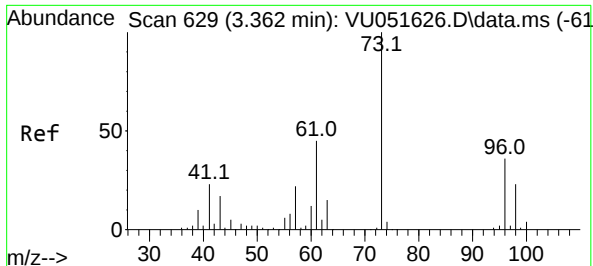
Tgt Ion: 43 Resp: 6300
Ion Ratio Lower Upper
43 100
74 14.0 20.2 30.4#



#16
Methylene chloride
Concen: 0.282 ug/L
RT: 3.044 min Scan# 530
Delta R.T. 0.003 min
Lab File: VU051644.D
Acq: 01 Nov 2022 05:22

Tgt Ion: 84 Resp: 9119
Ion Ratio Lower Upper
84 100
86 66.4 46.3 85.9
49 107.1 76.0 141.2





#17

Methyl tert-butyl Ether

Concen: 0.255 ug/L

RT: 3.362 min Scan# 61

Delta R.T. -0.000 min

Lab File: VU051644.D

Acq: 01 Nov 2022 05:22

Instrument :

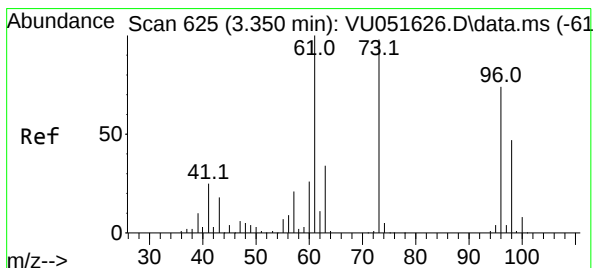
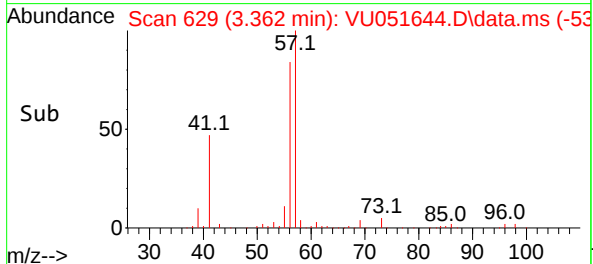
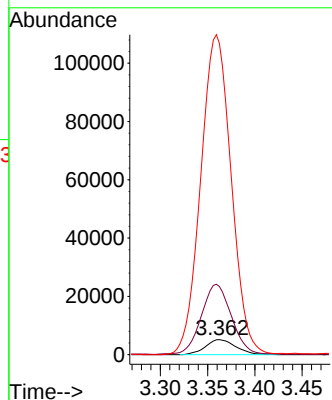
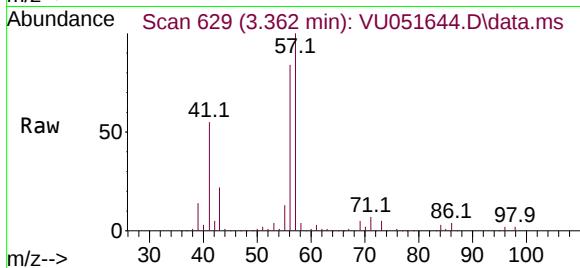
MSVOA_U

ClientSampleId :

BHAA1

Tgt Ion: 73 Resp: 11577

Ion	Ratio	Lower	Upper
73	100		
43	458.3	13.6	20.4#
57	2129.3	17.5	26.3#



#18

trans-1,2-Dichloroethene

Concen: 0.288 ug/L

RT: 3.353 min Scan# 626

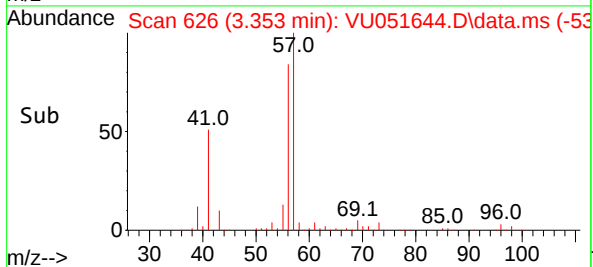
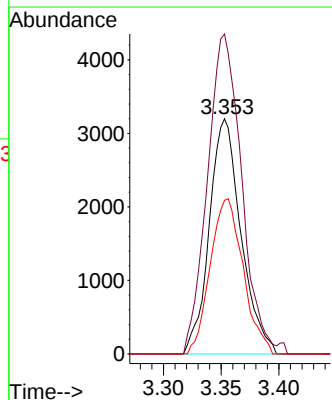
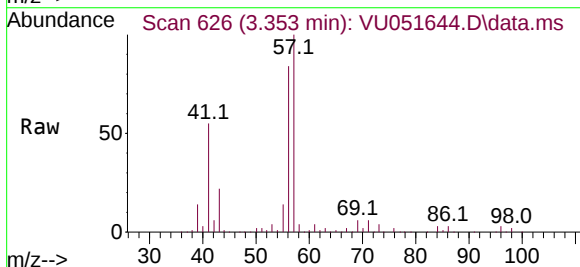
Delta R.T. 0.003 min

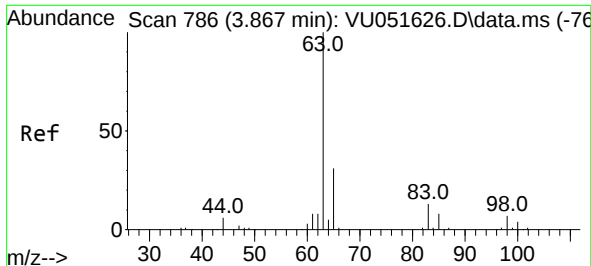
Lab File: VU051644.D

Acq: 01 Nov 2022 05:22

Tgt Ion: 96 Resp: 6114

Ion	Ratio	Lower	Upper
96	100		
61	136.0	94.7	175.9
98	65.3	44.2	82.0

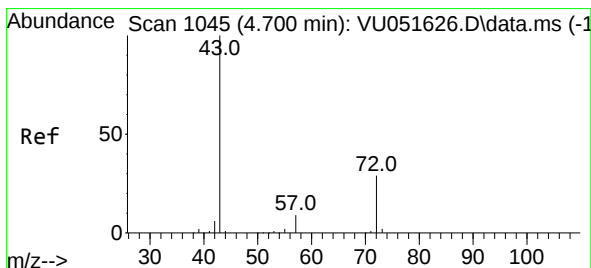
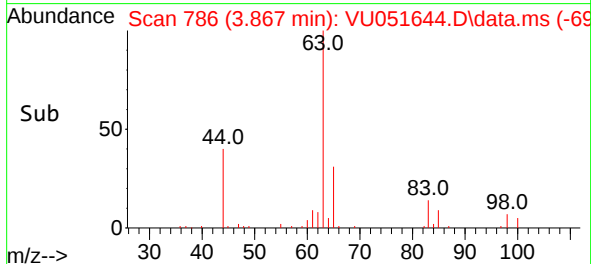
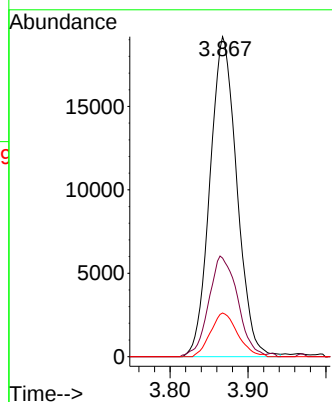
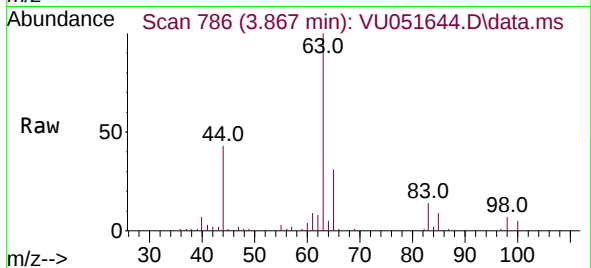




#19
1,1-Dichloroethane
Concen: 1.177 ug/L
RT: 3.867 min Scan# 71
Delta R.T. -0.000 min
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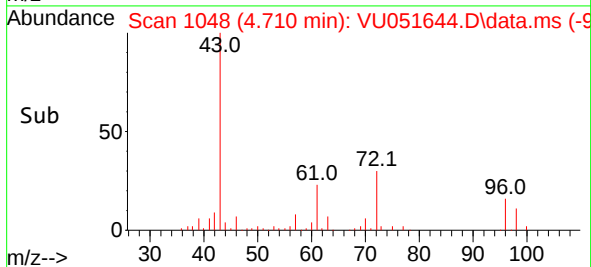
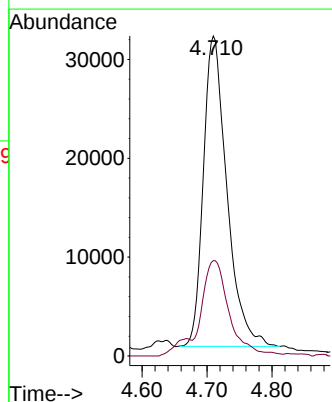
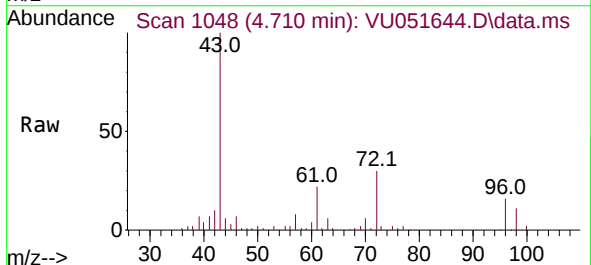
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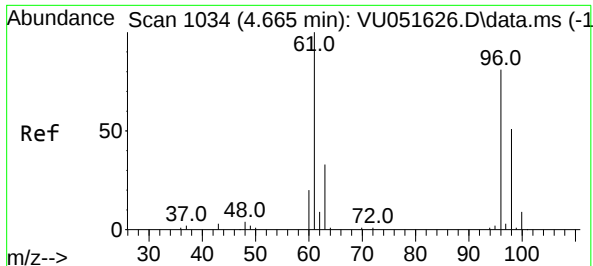
Tgt Ion: 63 Resp: 46057
Ion Ratio Lower Upper
63 100
65 30.8 22.7 42.1
83 13.6 9.2 17.0



#21
2-Butanone
Concen: 16.070 ug/L
RT: 4.710 min Scan# 1048
Delta R.T. 0.010 min
Lab File: VU051644.D
Acq: 01 Nov 2022 05:22

Tgt Ion: 43 Resp: 79212
Ion Ratio Lower Upper
43 100
72 34.4 16.2 48.5

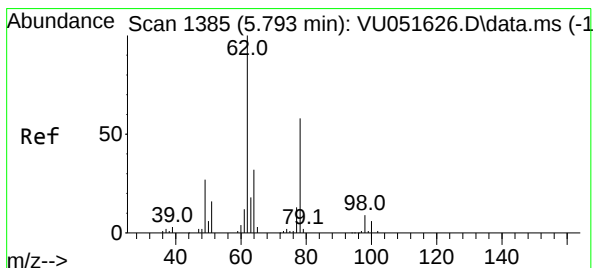
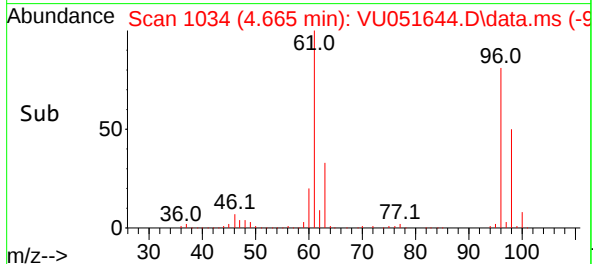
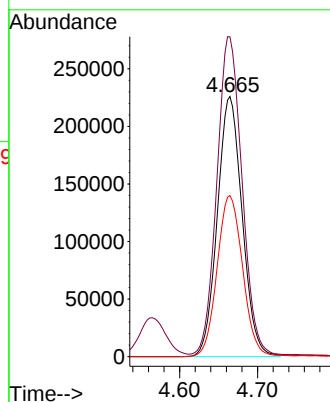
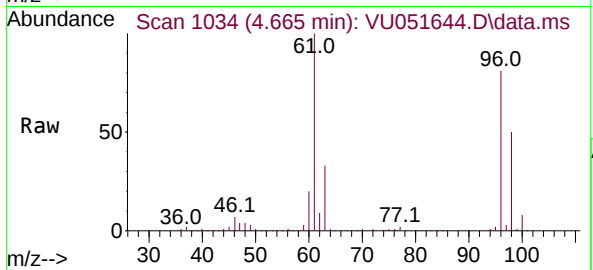




#22
 cis-1,2-Dichloroethene
 Concen: 21.326 ug/L
 RT: 4.665 min Scan# 1034
 Delta R.T. -0.000 min
 Lab File: VU051644.D
 Acq: 01 Nov 2022 05:22

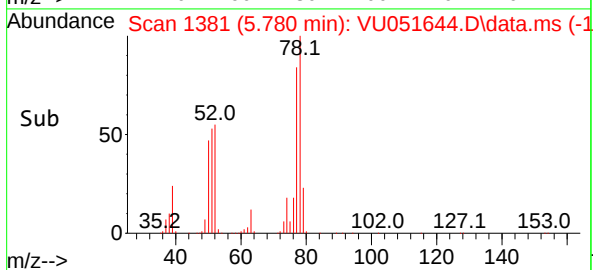
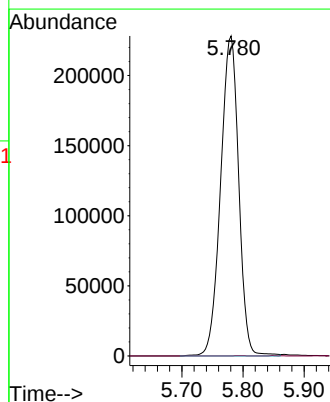
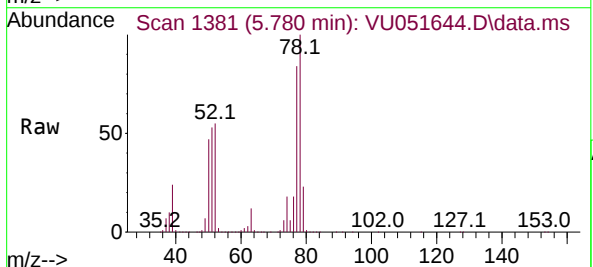
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 ClientSampleId :
 BHAA1

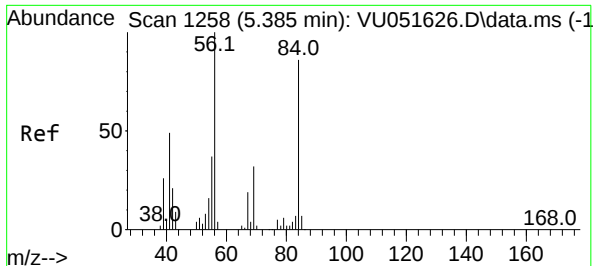
Tgt Ion: 96 Resp: 500733
 Ion Ratio Lower Upper
 96 100
 61 122.9 86.4 160.4
 98 61.9 44.2 82.2



#27
 1,2-Dichloroethane
 Concen: 18.778 ug/L
 RT: 5.780 min Scan# 1381
 Delta R.T. -0.013 min
 Lab File: VU051644.D
 Acq: 01 Nov 2022 05:22

Tgt Ion: 62 Resp: 469216
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.4 11.0#





#30

Cyclohexane

Concen: 2.585 ug/L

RT: 5.385 min Scan# 1258

Delta R.T. -0.000 min

Lab File: VU051644.D

Acq: 01 Nov 2022 05:22

Instrument :

MSVOA_U

ClientSampleId :

BHAA1

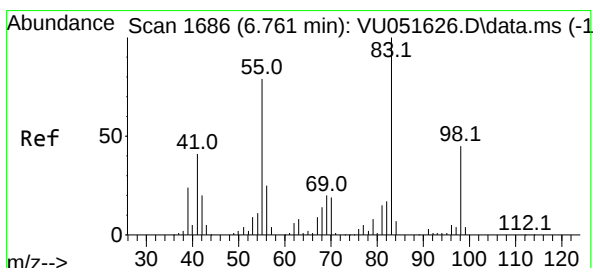
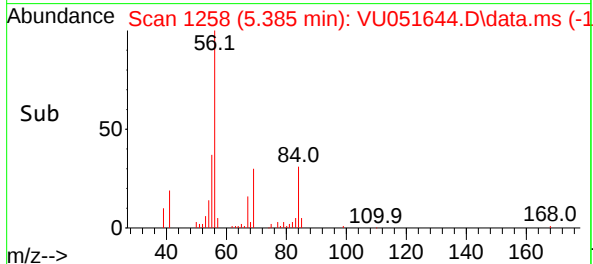
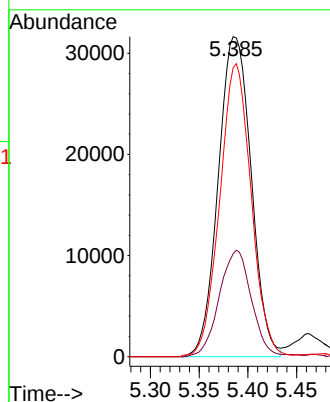
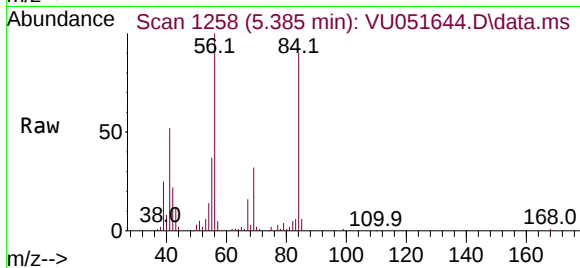
Tgt Ion: 56 Resp: 74341

Ion Ratio Lower Upper

56 100

69 32.6 25.4 38.0

84 87.3 71.4 107.0



#35

Methylcyclohexane

Concen: 3.355 ug/L

RT: 6.761 min Scan# 1686

Delta R.T. -0.000 min

Lab File: VU051644.D

Acq: 01 Nov 2022 05:22

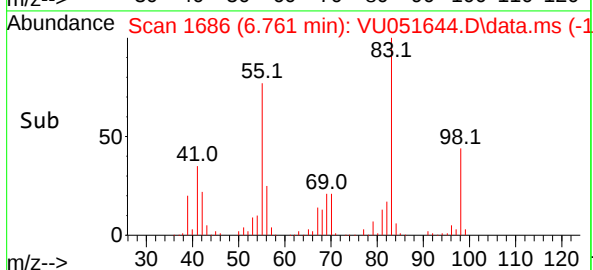
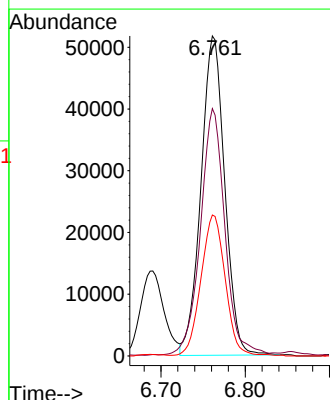
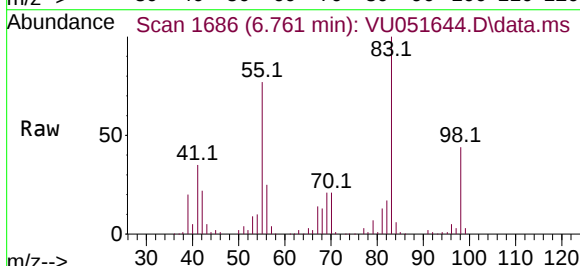
Tgt Ion: 83 Resp: 101620

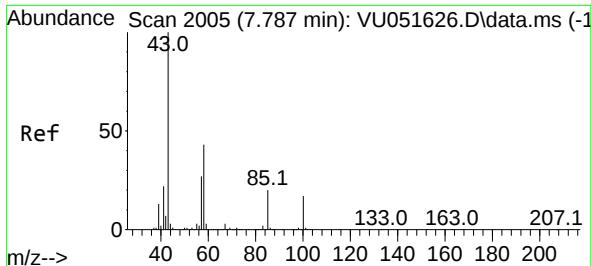
Ion Ratio Lower Upper

83 100

55 78.8 60.6 90.8

98 44.4 35.8 53.6





#40

4-Methyl-2-pentanone

Concen: 10.623 ug/L

RT: 7.793 min Scan# 2005

Delta R.T. 0.006 min

Lab File: VU051644.D

Acq: 01 Nov 2022 05:22

Instrument :

MSVOA_U

ClientSampleId :

BHAA1

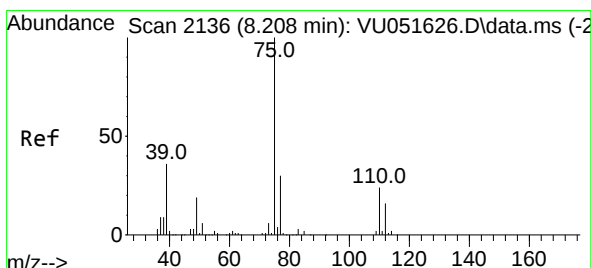
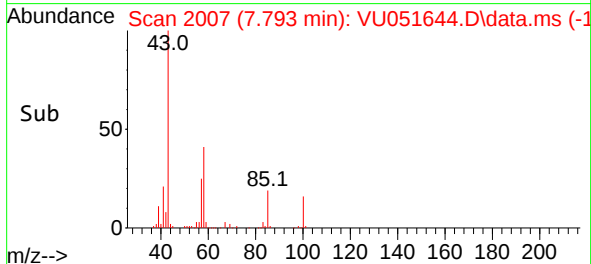
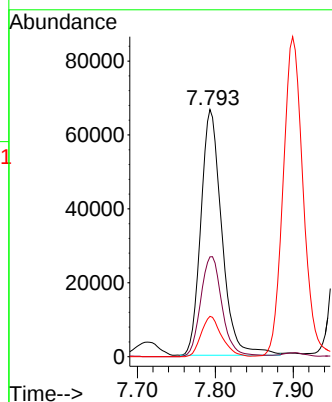
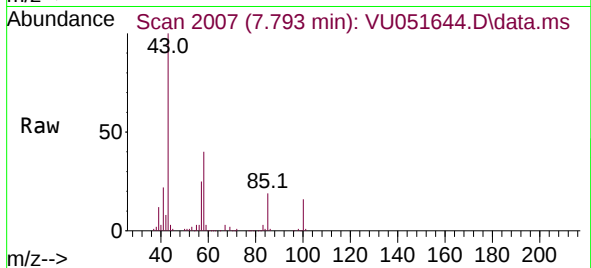
Tgt Ion: 43 Resp: 124400

Ion Ratio Lower Upper

43 100

58 41.9 35.0 52.6

100 16.1 13.4 20.0



#44

trans-1,3-Dichloropropene

Concen: 20.298 ug/L

RT: 7.980 min Scan# 2065

Delta R.T. -0.228 min

Lab File: VU051644.D

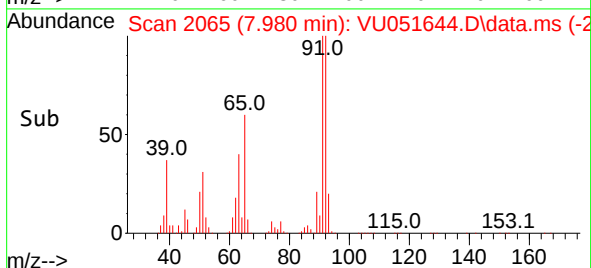
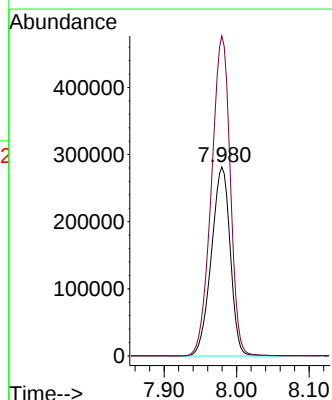
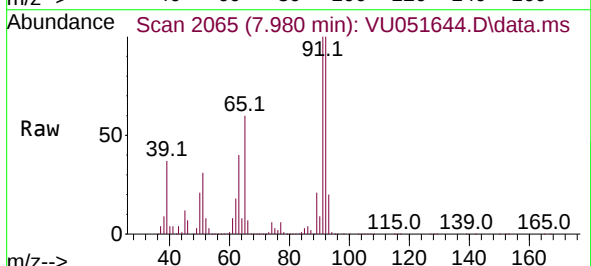
Acq: 01 Nov 2022 05:22

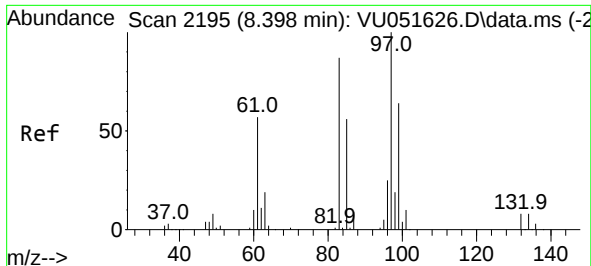
Tgt Ion: 75 Resp: 508094

Ion Ratio Lower Upper

75 100

77 169.3 21.8 40.6#

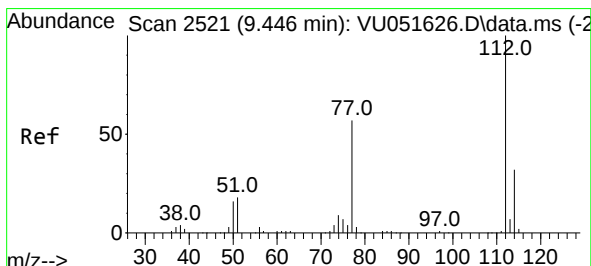
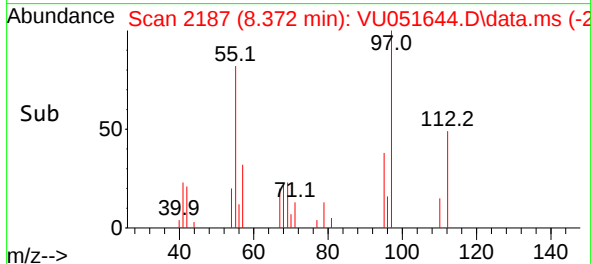
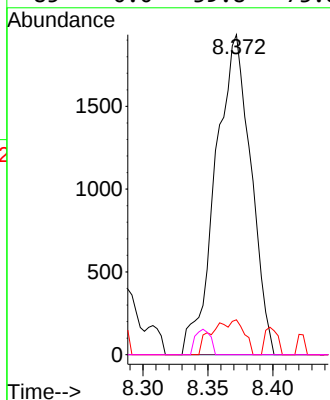
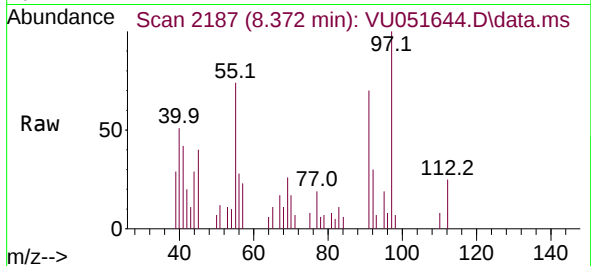




#45
1,1,2-Trichloroethane
Concen: 0.214 ug/L
RT: 8.372 min Scan# 2195
Delta R.T. -0.026 min
Lab File: VU051644.D
Acq: 01 Nov 2022 05:22

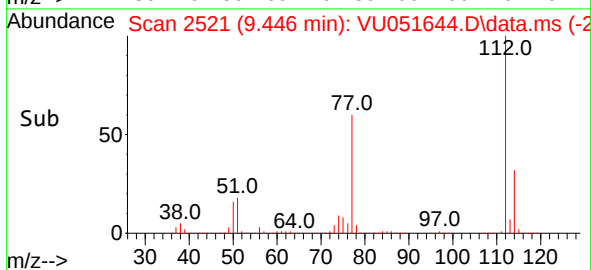
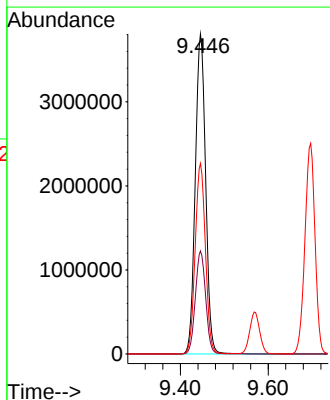
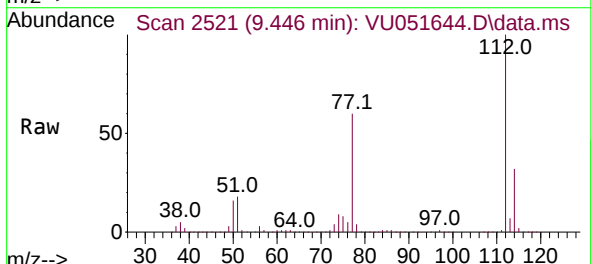
Instrument :
MSVOA_U
ClientSampleId :
BHAA1

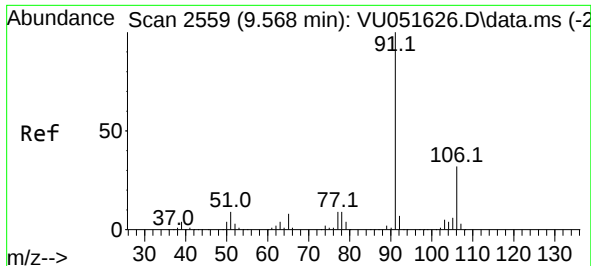
Tgt Ion: 97	Resp: 3660
Ion Ratio	Lower Upper
97 100	
99 0.0	43.4 80.6#
83 10.9	61.3 113.9#
85 0.0	39.8 73.8#



#51
Chlorobenzene
Concen: 106.128 ug/L
RT: 9.446 min Scan# 2521
Delta R.T. -0.000 min
Lab File: VU051644.D
Acq: 01 Nov 2022 05:22

Tgt Ion: 112	Resp: 6226982
Ion Ratio	Lower Upper
112 100	
114 32.2	22.0 40.8
77 59.6	46.7 70.1

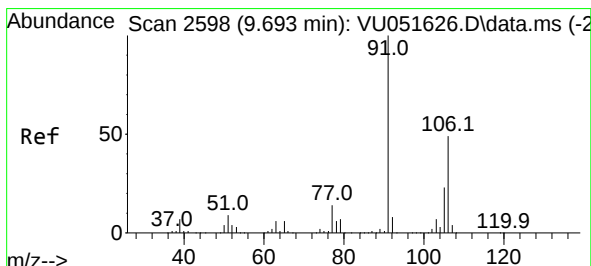
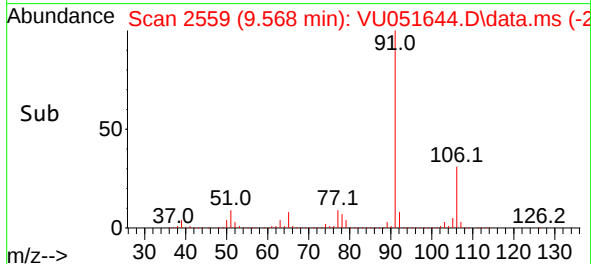
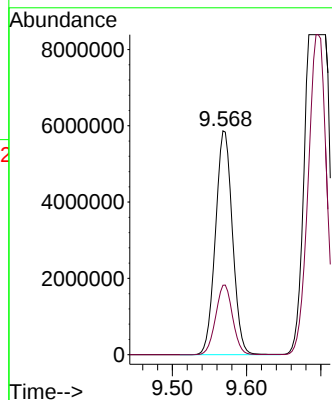
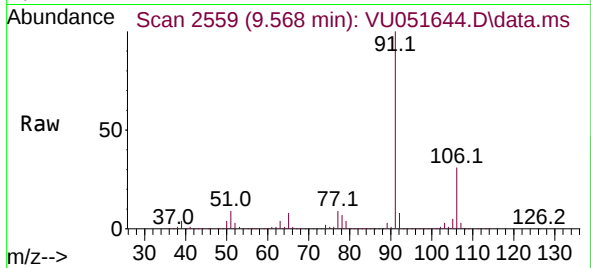




#52
Ethylbenzene
Concen: 103.501 ug/L
RT: 9.568 min Scan# 2559
Delta R.T. -0.000 min
Lab File: VU051644.D
Acq: 01 Nov 2022 05:22

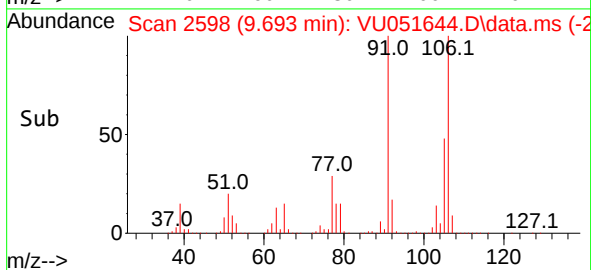
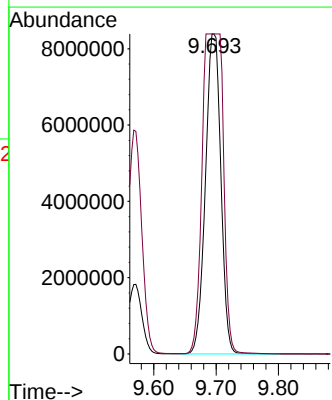
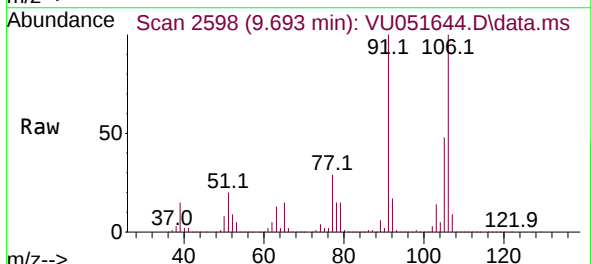
Instrument :
MSVOA_U
ClientSampleId :
BHAA1

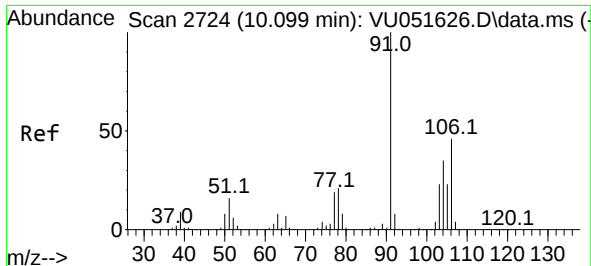
Tgt Ion: 91 Resp: 9310022
Ion Ratio Lower Upper
91 100
106 31.0 21.8 40.6



#53
m,p-Xylene
Concen: 411.686 ug/L
RT: 9.693 min Scan# 2598
Delta R.T. -0.000 min
Lab File: VU051644.D
Acq: 01 Nov 2022 05:22

Tgt Ion: 106 Resp: 14383705
Ion Ratio Lower Upper
106 100
91 100.0 139.4 259.0#

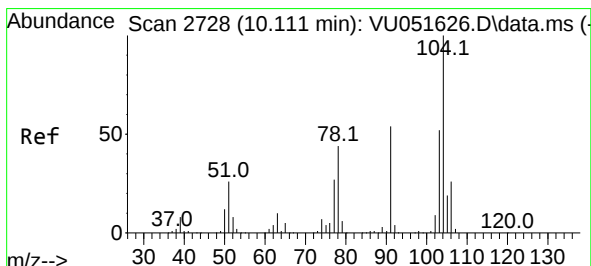
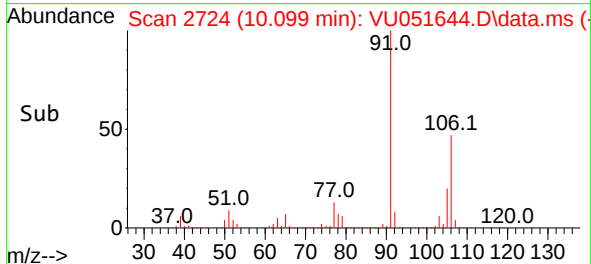
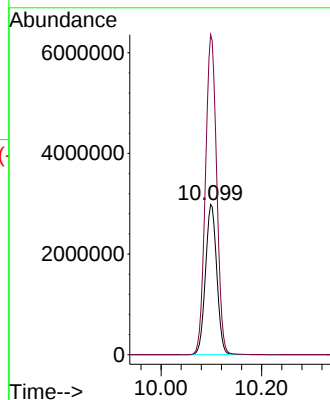
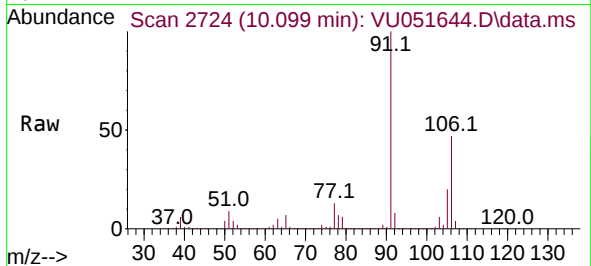




#54
o-Xylene
Concen: 136.111 ug/L
RT: 10.099 min Scan# 2724
Delta R.T. -0.000 min
Lab File: VU051644.D
Acq: 01 Nov 2022 05:22

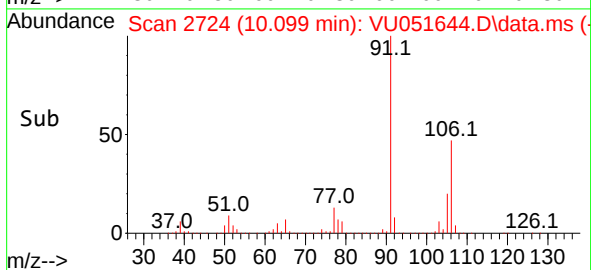
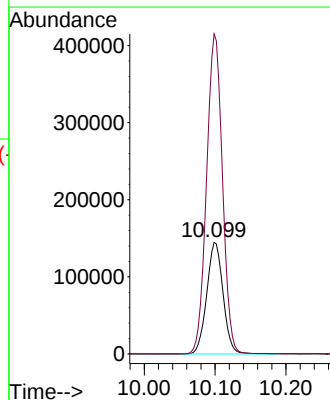
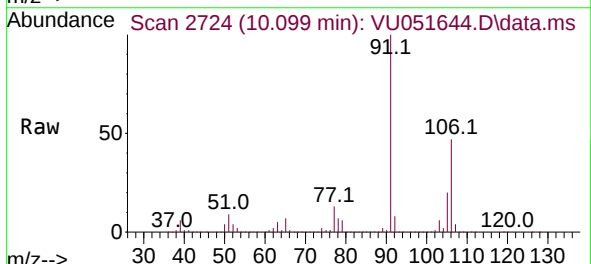
Instrument :
MSVOA_U
ClientSampleId :
BHAA1

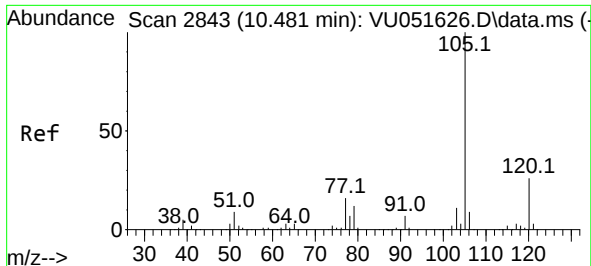
Tgt Ion:106 Resp: 4647596
Ion Ratio Lower Upper
106 100
91 213.0 149.2 277.2



#55
Styrene
Concen: 4.052 ug/L
RT: 10.099 min Scan# 2724
Delta R.T. -0.013 min
Lab File: VU051644.D
Acq: 01 Nov 2022 05:22

Tgt Ion:104 Resp: 231292
Ion Ratio Lower Upper
104 100
78 286.4 31.8 59.0#

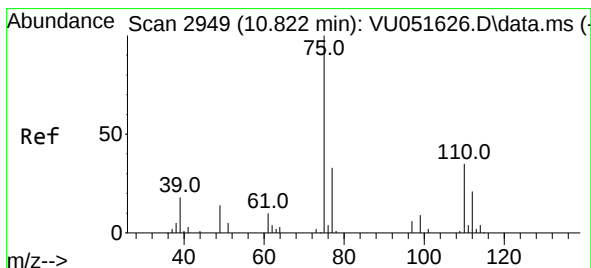
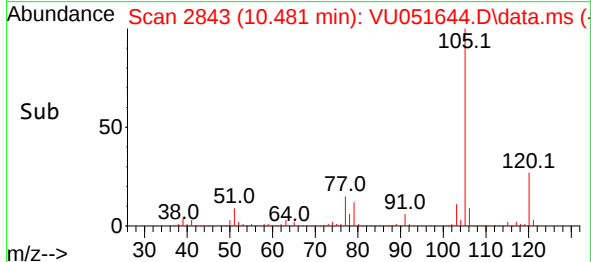
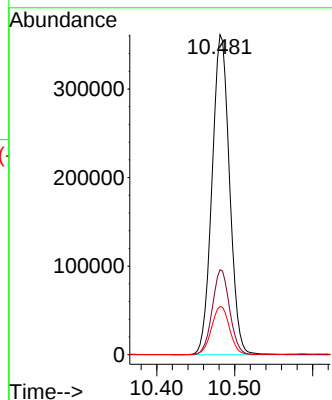
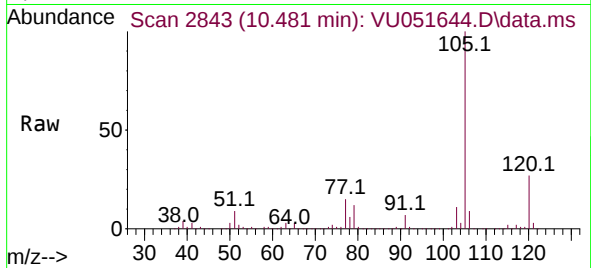




#60
Isopropylbenzene
Concen: 6.110 ug/L
RT: 10.481 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU051644.D
Acq: 01 Nov 2022 05:22

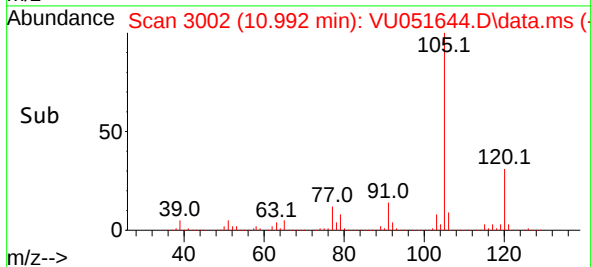
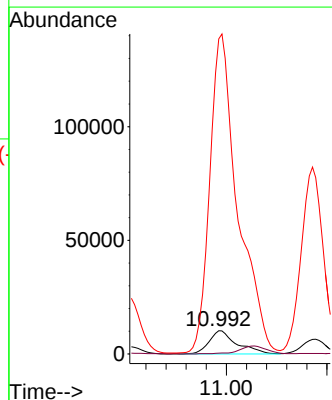
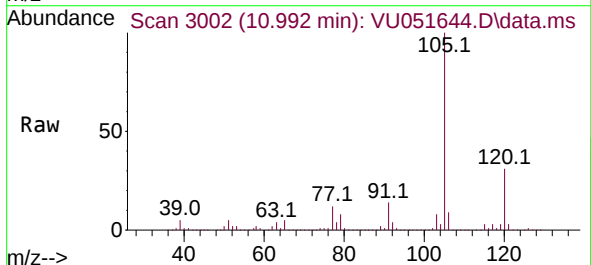
Instrument :
MSVOA_U
ClientSampleId :
BHAA1

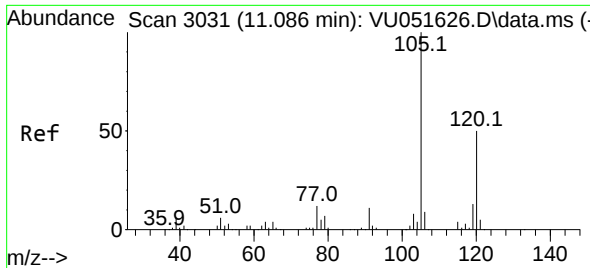
Tgt Ion:105 Resp: 563558
Ion Ratio Lower Upper
105 100
120 26.3 20.9 31.3
77 0.0 12.3 18.5#



#61
1,2,3-Trichloropropane
Concen: 1.203 ug/L
RT: 10.992 min Scan# 3002
Delta R.T. 0.170 min
Lab File: VU051644.D
Acq: 01 Nov 2022 05:22

Tgt Ion: 75 Resp: 19651
Ion Ratio Lower Upper
75 100
110 30.9 28.7 43.1
77 1383.4 26.1 39.1#

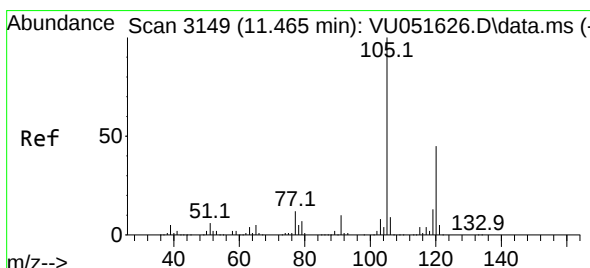
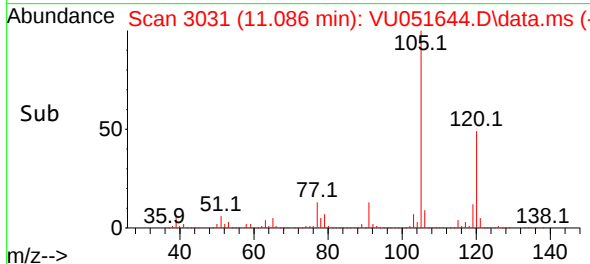
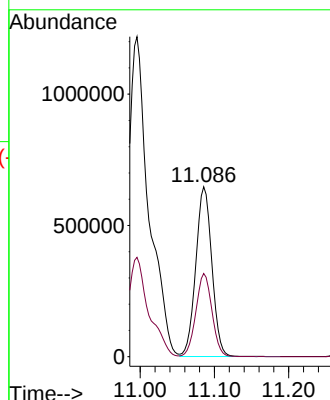
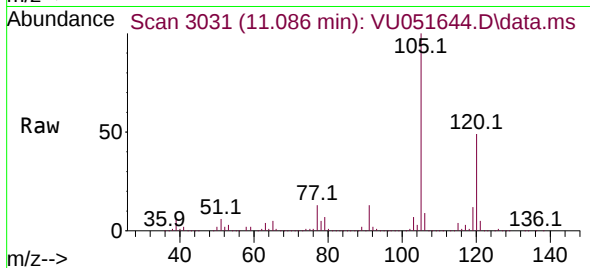




#62
 1,3,5-Trimethylbenzene
 Concen: 39.253 ug/L
 RT: 11.086 min Scan# 3031
 Delta R.T. -0.000 min
 Lab File: VU051644.D
 Acq: 01 Nov 2022 05:22

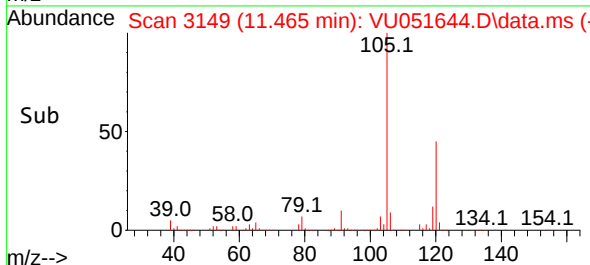
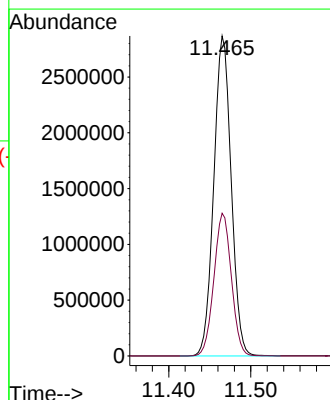
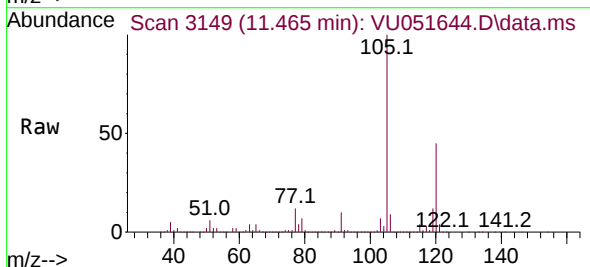
Instrument :
 MSVOA_U
 ClientSampleId :
 BHAA1

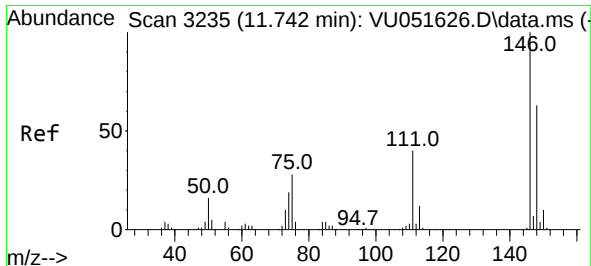
Tgt Ion:105 Resp: 974742
 Ion Ratio Lower Upper
 105 100
 120 48.8 38.6 57.8



#63
 1,2,4-Trimethylbenzene
 Concen: 59.132 ug/L
 RT: 11.465 min Scan# 3149
 Delta R.T. -0.000 min
 Lab File: VU051644.D
 Acq: 01 Nov 2022 05:22

Tgt Ion:105 Resp: 4234000
 Ion Ratio Lower Upper
 105 100
 120 44.7 35.8 53.6

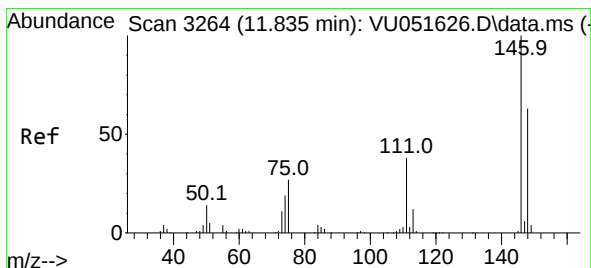
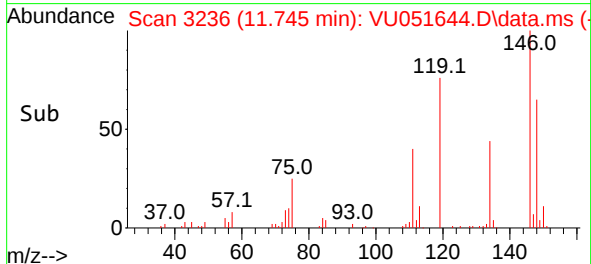
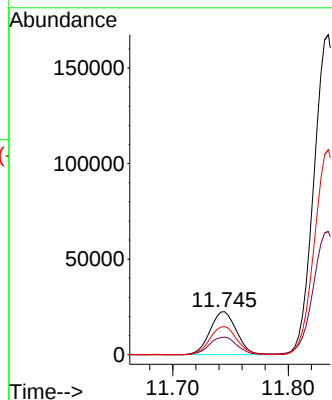
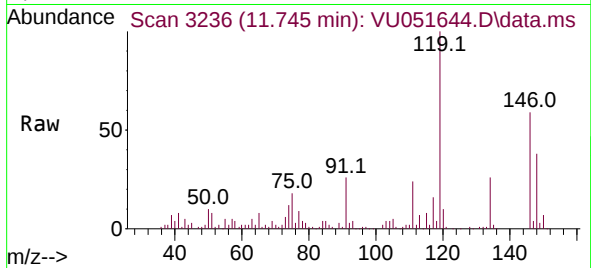




#64
1,3-Dichlorobenzene
Concen: 0.782 ug/L
RT: 11.745 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU051644.D
Acq: 01 Nov 2022 05:22

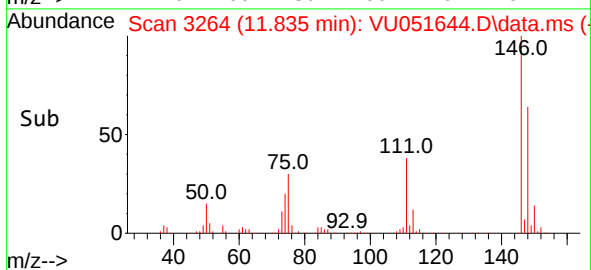
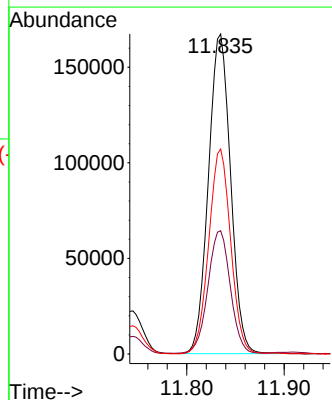
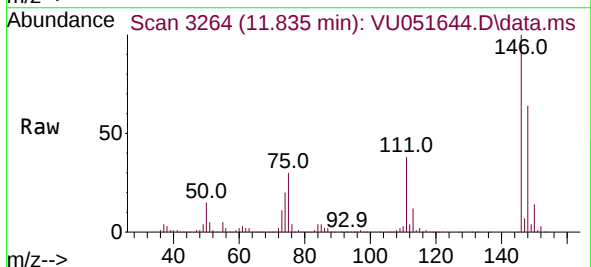
Instrument :
MSVOA_U
ClientSampleId :
BHAA1

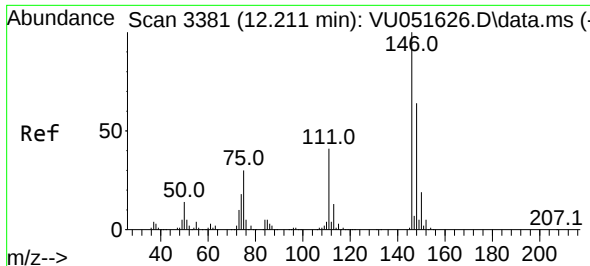
Tgt Ion:146 Resp: 35899
Ion Ratio Lower Upper
146 100
111 40.8 28.6 53.2
148 65.3 44.7 82.9



#65
1,4-Dichlorobenzene
Concen: 5.750 ug/L
RT: 11.835 min Scan# 3264
Delta R.T. -0.000 min
Lab File: VU051644.D
Acq: 01 Nov 2022 05:22

Tgt Ion:146 Resp: 264756
Ion Ratio Lower Upper
146 100
111 38.5 26.7 49.5
148 64.1 43.5 80.9





#67

1,2-Dichlorobenzene

Concen: 5.016 ug/L

RT: 12.211 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU051644.D

Acq: 01 Nov 2022 05:22

Instrument :

MSVOA_U

ClientSampleId :

BHAA1

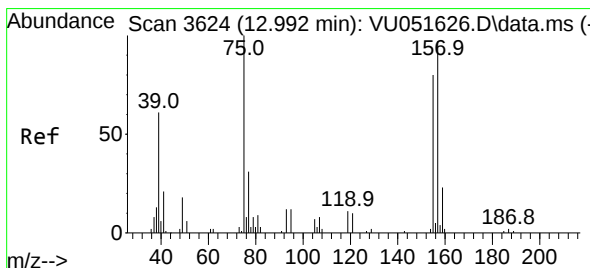
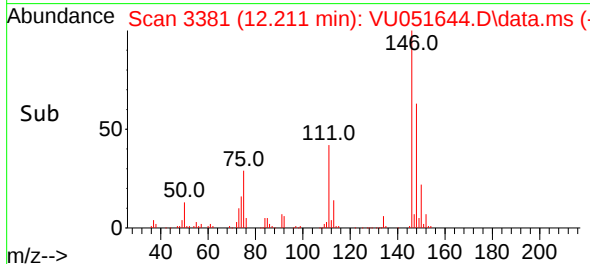
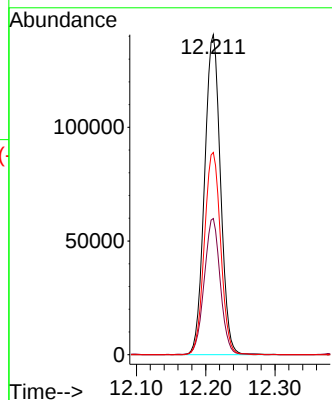
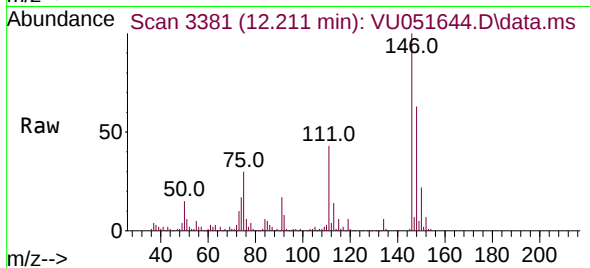
Tgt Ion:146 Resp: 224349

Ion Ratio Lower Upper

146 100

111 42.5 34.2 51.2

148 63.2 50.1 75.1



#68

1,2-Dibromo-3-chloropropane

Concen: 0.424 ug/L

RT: 12.970 min Scan# 3617

Delta R.T. -0.023 min

Lab File: VU051644.D

Acq: 01 Nov 2022 05:22

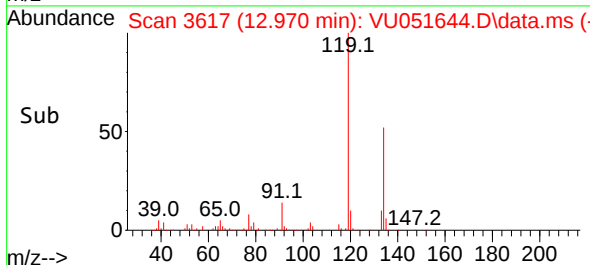
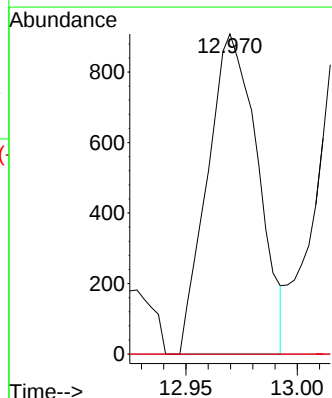
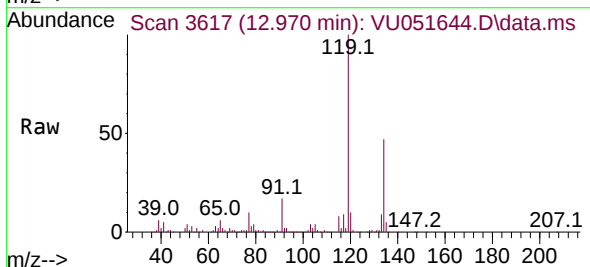
Tgt Ion: 75 Resp: 1425

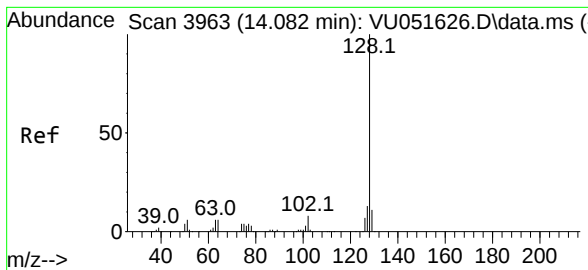
Ion Ratio Lower Upper

75 100

155 0.0 61.4 92.2#

157 0.0 86.7 130.1#





#71
Naphthalene
Concen: 6.549 ug/L
RT: 14.085 min Scan# 3964
Delta R.T. 0.003 min
Lab File: VU051644.D
Acq: 01 Nov 2022 05:22

Instrument :
MSVOA_U
ClientSampleId :
BHAA1

Tgt Ion:128 Resp: 307201
Ion Ratio Lower Upper
128 100
129 11.2 8.4 12.6
127 12.8 10.3 15.5

