

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU031924\
 Data File : VU058162.D
 Acq On : 19 Mar 2024 18:01
 Operator : MD/SY
 Sample : P1796-01
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 20 05:22:43 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR022924WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Mar 20 05:19:57 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.258	114	119852	5.000	ug/L	0.02
28) Chlorobenzene-d5	9.415	117	113949	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	51864	5.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.589	65	38480	4.462	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	89.200%
7) Chloroethane-d5	1.914	69	35584	5.021	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	100.400%
11) 1,1-Dichloroethene-d2	2.554	65	18632	4.993	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	99.800%
20) 2-Butanone-d5	4.766	46	62120	43.721	ug/L	0.15
Spiked Amount	50.000	Range	40 - 130	Recovery	=	87.440%
24) Chloroform-d	5.081	84	110469	6.773	ug/L	0.03
Spiked Amount	5.000	Range	70 - 125	Recovery	=	135.400%#
26) 1,2-Dichloroethane-d4	5.721	65	36355	4.920	ug/L	0.03
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.400%
32) Benzene-d6	5.737	84	158882	4.785	ug/L	0.02
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.600%
36) 1,2-Dichloropropane-d6	6.698	67	49878	4.941	ug/L	0.02
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.800%
41) Toluene-d8	7.898	98	135082	4.490	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.800%
43) trans-1,3-Dichloroprop...	8.184	79	13952	4.019	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.400%
46) 2-Hexanone-d5	8.647	63	58708	50.370	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.740%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	25929	4.189	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	83.800%
66) 1,2-Dichlorobenzene-d4	12.187	152	41527	4.862	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.200%

Target Compounds					Qvalue	
5) Vinyl chloride	1.596	62	6529	0.715	ug/L	91
12) 1,1-Dichloroethene	2.570	96	5237	0.724	ug/L #	1
14) Carbon disulfide	2.779	76	2449	0.110	ug/L #	58
16) Methylene chloride	3.039	84	3228	0.367	ug/L	92
18) trans-1,2-Dichloroethene	3.335	96	1996	0.253	ug/L	90
19) 1,1-Dichloroethane	3.859	63	4469	0.284	ug/L	93
21) 2-Butanone	4.875	43	17109	10.269	ug/L #	50
22) cis-1,2-Dichloroethene	4.666	96	149117	17.209	ug/L	98
25) Chloroform	5.104	83	785506	48.967	ug/L	100
27) 1,2-Dichloroethane	5.824	62	1796	0.202	ug/L #	76
31) Carbon tetrachloride	5.531	117	1134995	96.307	ug/L	99
34) Trichloroethene	6.547	95	1108275	120.463	ug/L	98
35) Methylcyclohexane	6.698	83	11623	0.824	ug/L #	18
37) 1,2-Dichloropropane	6.698	63	5195	0.576	ug/L #	89
45) 1,1,2-Trichloroethane	8.402	97	3265	0.611	ug/L	83
53) m,p-Xylene	9.695	106	1924	0.132	ug/L	79
55) Styrene	10.116	104	1665	0.073	ug/L	81
61) 1,2,3-Trichloropropane	11.807	75	7869	1.852	ug/L #	69
65) 1,4-Dichlorobenzene	11.833	146	2730	0.178	ug/L	98

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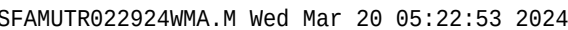
Instrument :
MSVOA_U
ClientSampleId :

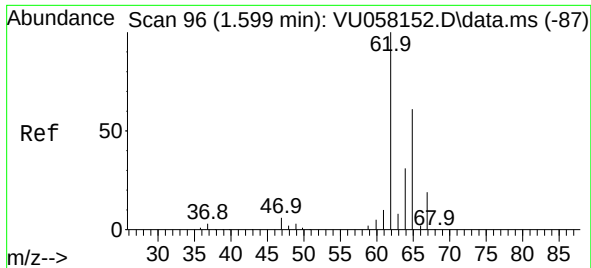
Quant Time: Mar 20 05:22:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR022924WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Wed Mar 20 05:19:57 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,2-Dichlorobenzene	12.206	146	6190	0.452	ug/L	87
68) 1,2-Dibromo-3-chloropr...	12.997	75	118	0.140	ug/L #	60
69) 1,3,5-Trichlorobenzene	13.216	180	3585	0.317	ug/L	95
72) 1,2,3-Trichlorobenzene	14.325	180	11404	1.701	ug/L	98

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

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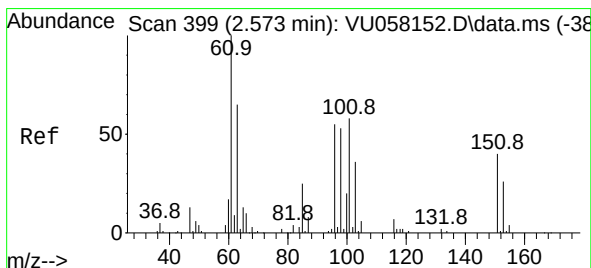
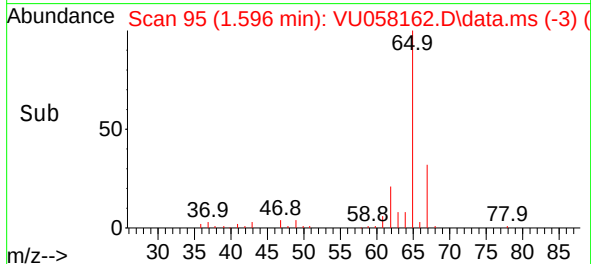
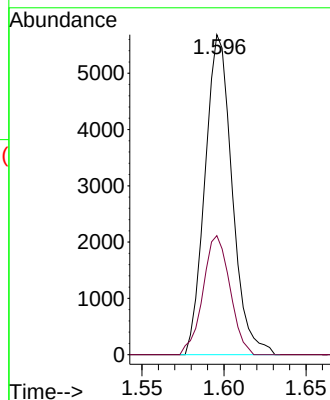
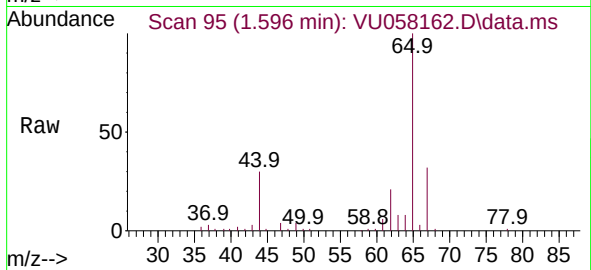




#5
 Vinyl chloride
 Concen: 0.715 ug/L
 RT: 1.596 min Scan# 90
 Delta R.T. -0.003 min
 Lab File: VU058162.D
 Acq: 19 Mar 2024 18:01

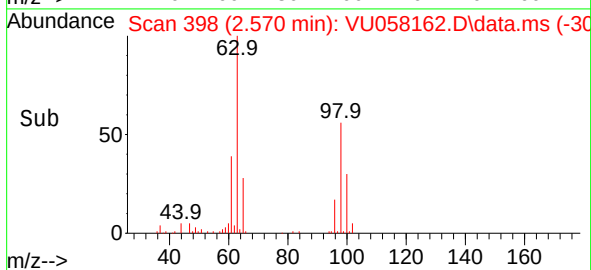
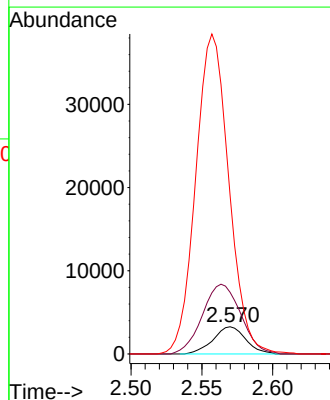
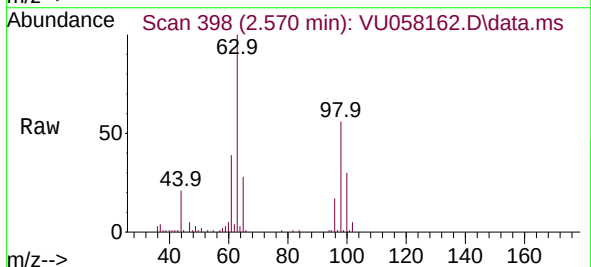
Instrument :
 MSVOA_U
 ClientSampleId :

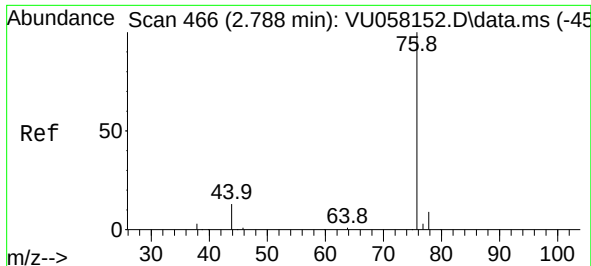
Tgt Ion: 62 Resp: 6529
 Ion Ratio Lower Upper
 62 100
 64 37.2 22.5 41.7



#12
 1,1-Dichloroethene
 Concen: 0.724 ug/L
 RT: 2.570 min Scan# 398
 Delta R.T. -0.003 min
 Lab File: VU058162.D
 Acq: 19 Mar 2024 18:01

Tgt Ion: 96 Resp: 5237
 Ion Ratio Lower Upper
 96 100
 61 227.0 131.8 244.8
 63 583.4 98.1 182.1#

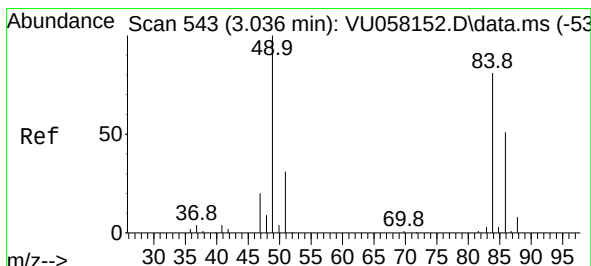
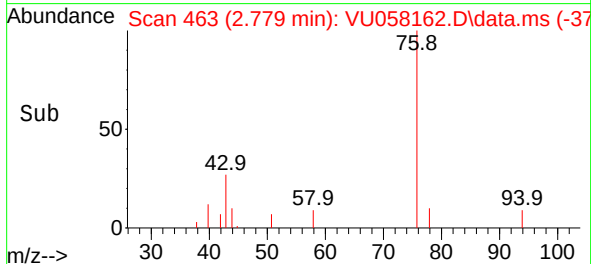
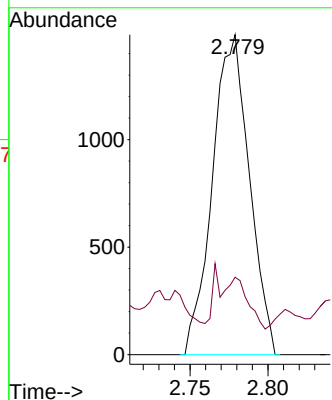
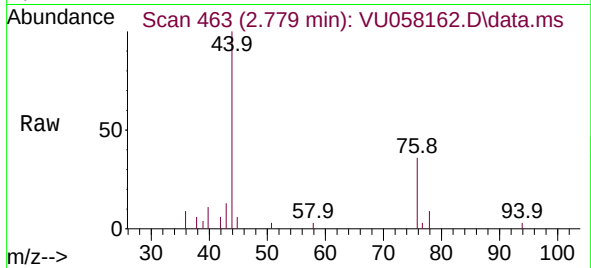




#14
Carbon disulfide
Concen: 0.110 ug/L
RT: 2.779 min Scan# 463
Delta R.T. -0.009 min
Lab File: VU058162.D
Acq: 19 Mar 2024 18:01

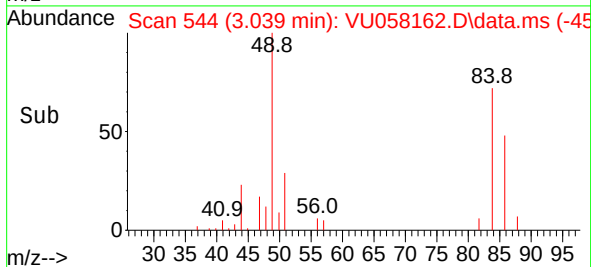
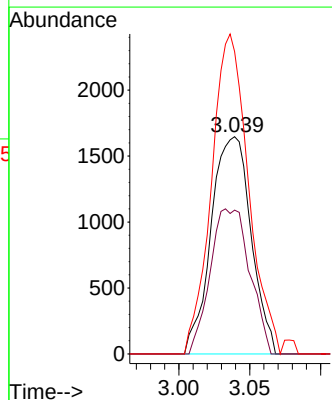
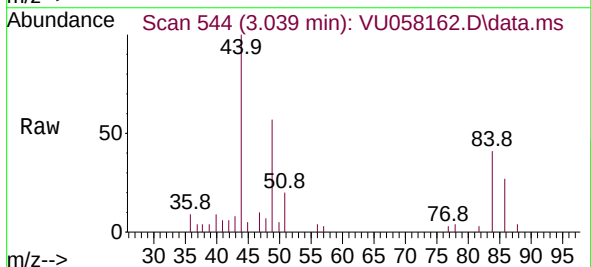
Instrument :
MSVOA_U
ClientSampleId :

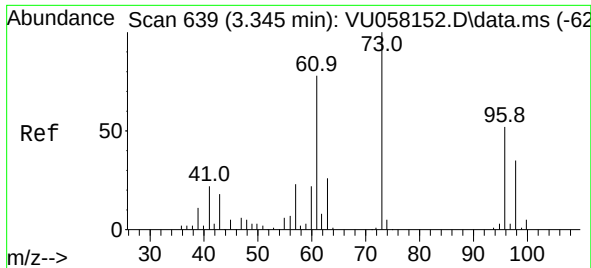
Tgt Ion: 76 Resp: 2449
Ion Ratio Lower Upper
76 100
78 24.2 7.3 10.9#



#16
Methylene chloride
Concen: 0.367 ug/L
RT: 3.039 min Scan# 544
Delta R.T. 0.003 min
Lab File: VU058162.D
Acq: 19 Mar 2024 18:01

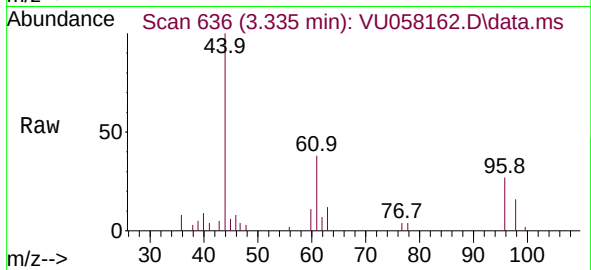
Tgt Ion: 84 Resp: 3228
Ion Ratio Lower Upper
84 100
86 66.2 44.4 82.4
49 139.2 88.8 165.0



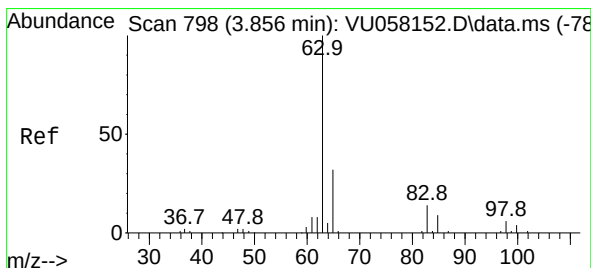
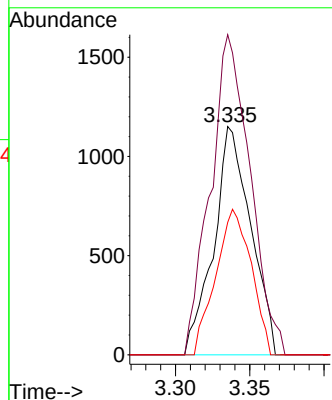
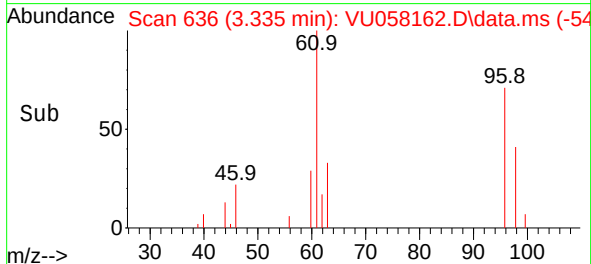


#18
trans-1,2-Dichloroethene
Concen: 0.253 ug/L
RT: 3.335 min Scan# 61
Delta R.T. -0.009 min
Lab File: VU058162.D
Acq: 19 Mar 2024 18:01

Instrument :
MSVOA_U
ClientSampleId :

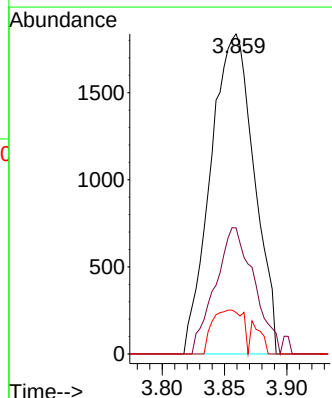
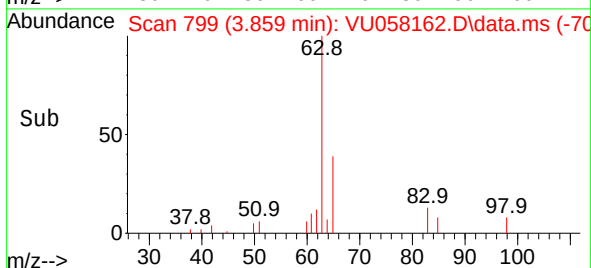
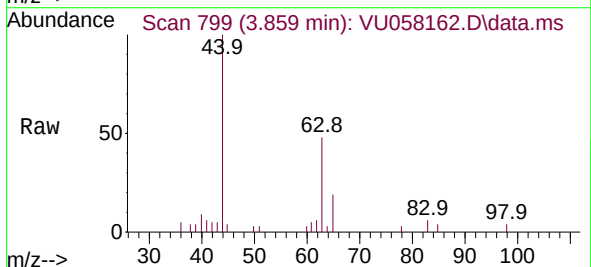


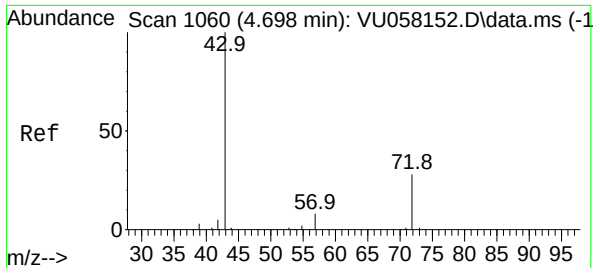
Tgt Ion: 96 Resp: 1996
Ion Ratio Lower Upper
96 100
61 140.2 107.7 199.9
98 58.0 45.8 85.0



#19
1,1-Dichloroethane
Concen: 0.284 ug/L
RT: 3.859 min Scan# 799
Delta R.T. 0.003 min
Lab File: VU058162.D
Acq: 19 Mar 2024 18:01

Tgt Ion: 63 Resp: 4469
Ion Ratio Lower Upper
63 100
65 36.9 22.1 41.1
83 12.1 9.0 16.6





#21

2-Butanone

Concen: 10.269 ug/L

RT: 4.875 min Scan# 1115

Delta R.T. 0.177 min

Lab File: VU058162.D

Acq: 19 Mar 2024 18:01

Instrument :

MSVOA_U

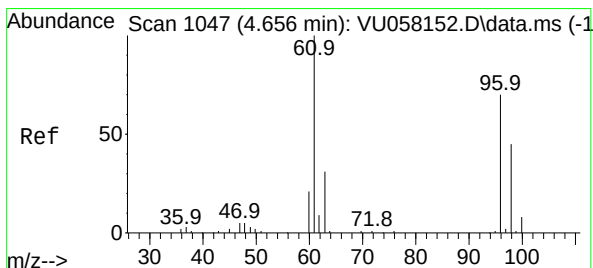
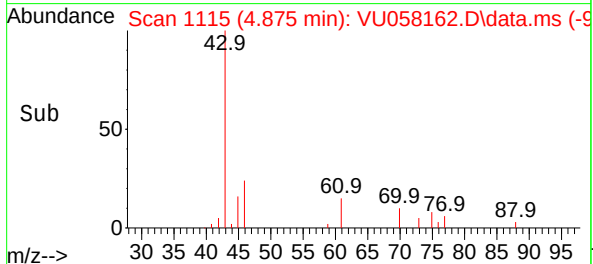
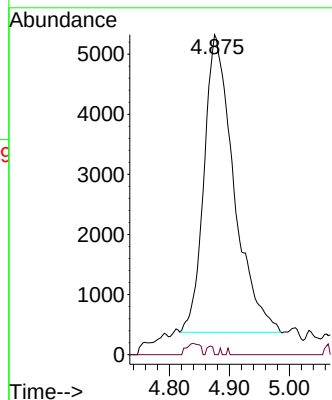
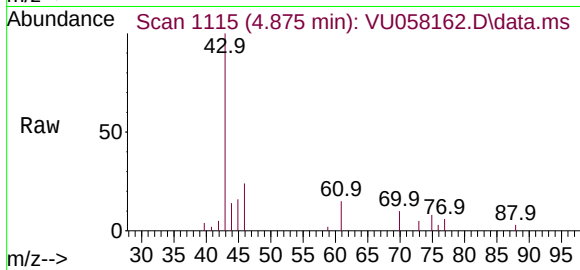
ClientSampleId :

Tgt Ion: 43 Resp: 17109

Ion Ratio Lower Upper

43 100

72 0.6 13.0 39.0#



#22

cis-1,2-Dichloroethene

Concen: 17.209 ug/L

RT: 4.666 min Scan# 1050

Delta R.T. 0.010 min

Lab File: VU058162.D

Acq: 19 Mar 2024 18:01

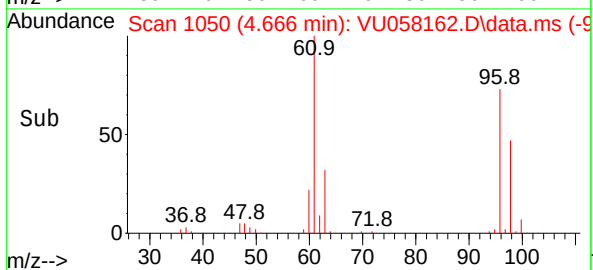
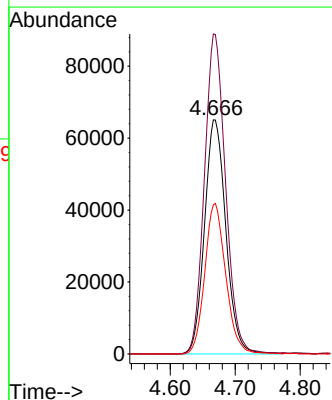
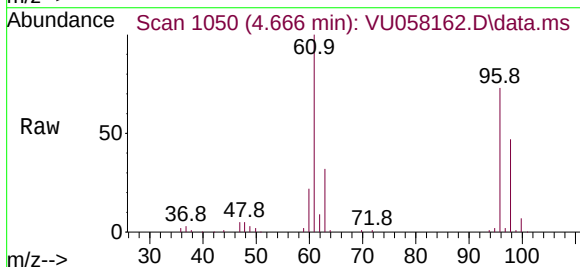
Tgt Ion: 96 Resp: 149117

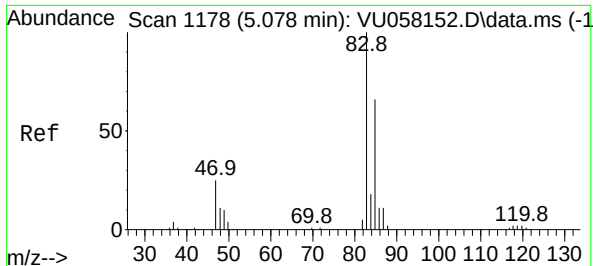
Ion Ratio Lower Upper

96 100

61 136.7 97.2 180.4

98 63.7 45.5 84.5





#25

Chloroform

Concen: 48.967 ug/L

RT: 5.104 min Scan# 1410

Delta R.T. 0.026 min

Lab File: VU058162.D

Acq: 19 Mar 2024 18:01

Instrument :

MSVOA_U

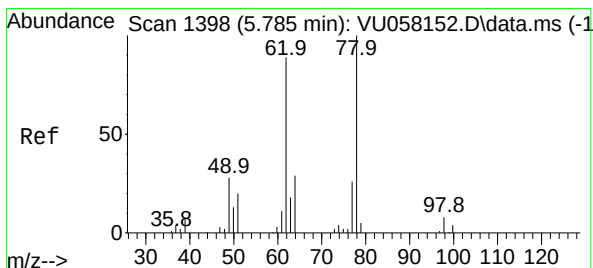
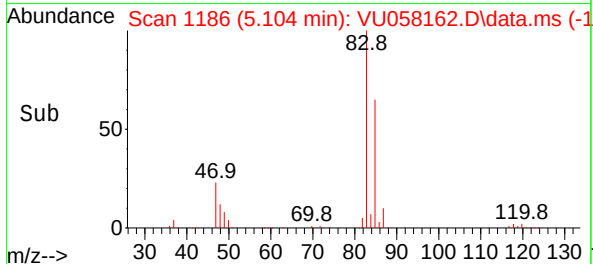
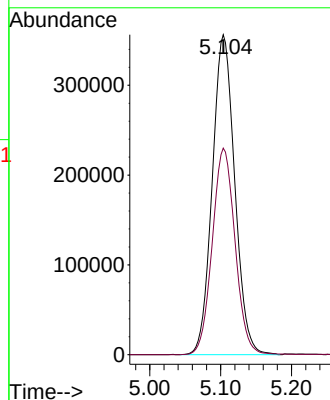
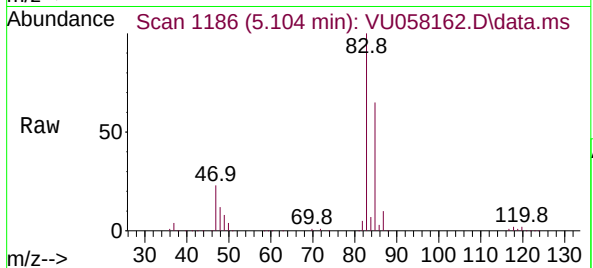
ClientSampleId :

Tgt Ion: 83 Resp: 785506

Ion Ratio Lower Upper

83 100

85 64.6 45.4 84.4



#27

1,2-Dichloroethane

Concen: 0.202 ug/L

RT: 5.824 min Scan# 1410

Delta R.T. 0.039 min

Lab File: VU058162.D

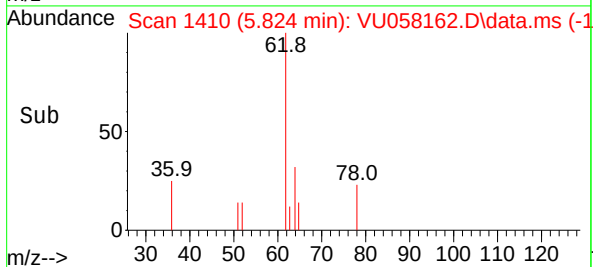
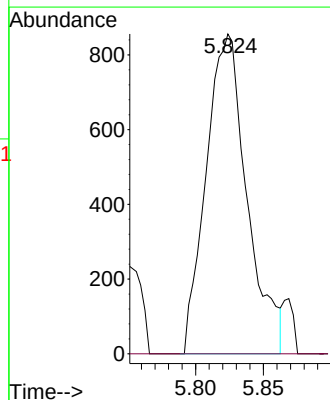
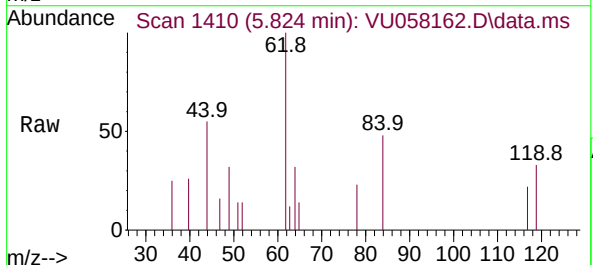
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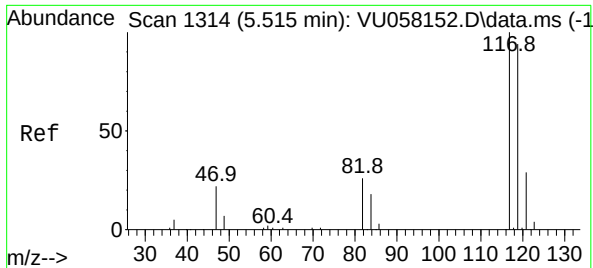
Tgt Ion: 62 Resp: 1796

Ion Ratio Lower Upper

62 100

98 0.0 7.0 10.4#

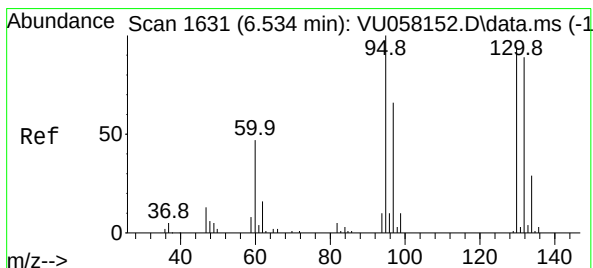
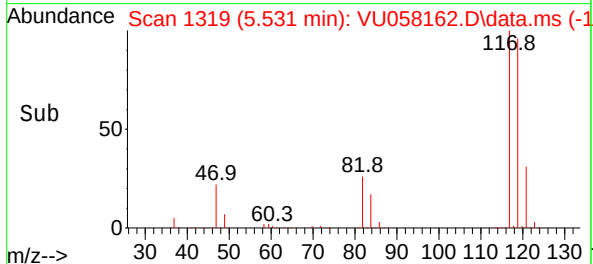
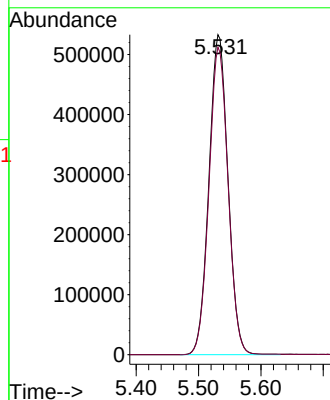
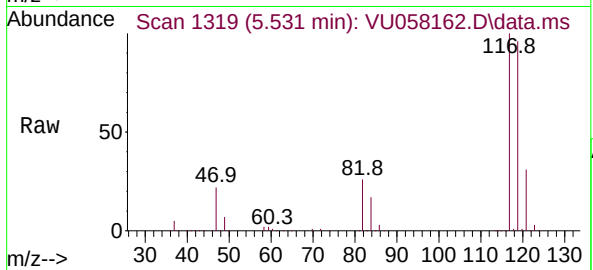




#31
Carbon tetrachloride
Concen: 96.307 ug/L
RT: 5.531 min Scan# 1134
Delta R.T. 0.016 min
Lab File: VU058162.D
Acq: 19 Mar 2024 18:01

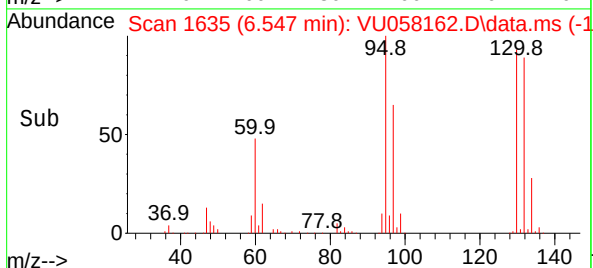
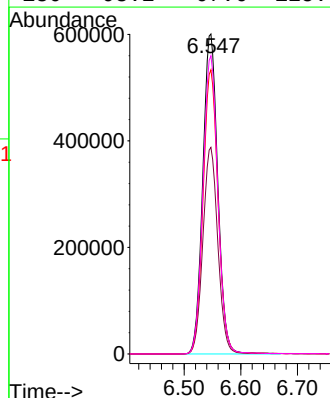
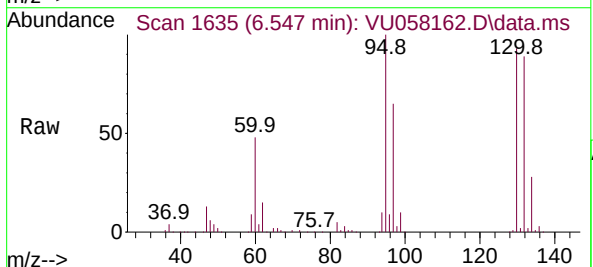
Instrument :
MSVOA_U
ClientSampleId :

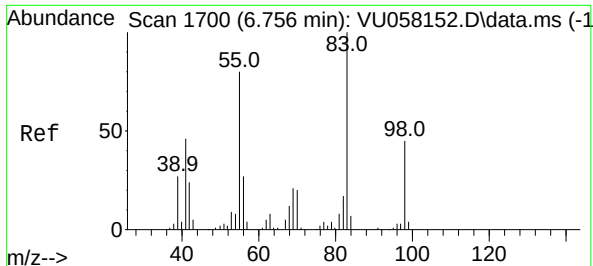
Tgt Ion:117 Resp: 1134995
Ion Ratio Lower Upper
117 100
119 96.2 75.8 113.8



#34
Trichloroethene
Concen: 120.463 ug/L
RT: 6.547 min Scan# 1635
Delta R.T. 0.013 min
Lab File: VU058162.D
Acq: 19 Mar 2024 18:01

Tgt Ion: 95 Resp: 1108275
Ion Ratio Lower Upper
95 100
97 64.6 45.3 84.1
132 88.8 63.1 117.1
130 93.2 67.6 125.6





#35

Methylcyclohexane

Concen: 0.824 ug/L

RT: 6.698 min Scan# 1

Delta R.T. -0.058 min

Lab File: VU058162.D

Acq: 19 Mar 2024 18:01

Instrument :

MSVOA_U

ClientSampleId :

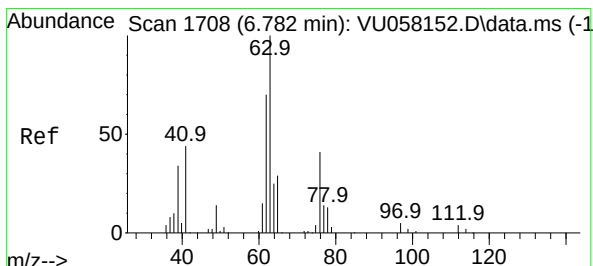
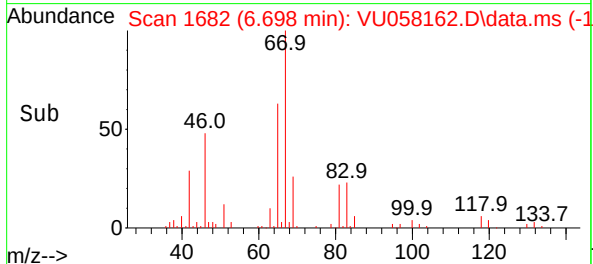
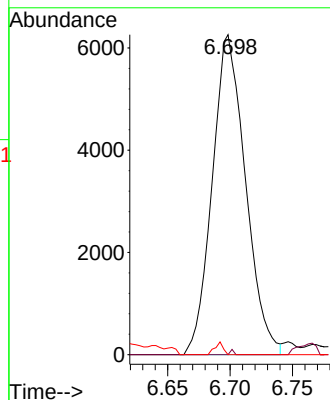
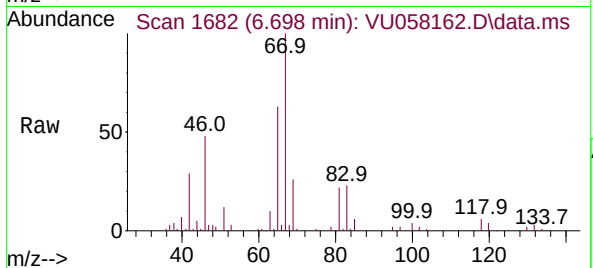
Tgt Ion: 83 Resp: 11623

Ion Ratio Lower Upper

83 100

55 0.2 63.0 94.6#

98 0.0 36.2 54.4#



#37

1,2-Dichloropropane

Concen: 0.576 ug/L

RT: 6.698 min Scan# 1682

Delta R.T. -0.083 min

Lab File: VU058162.D

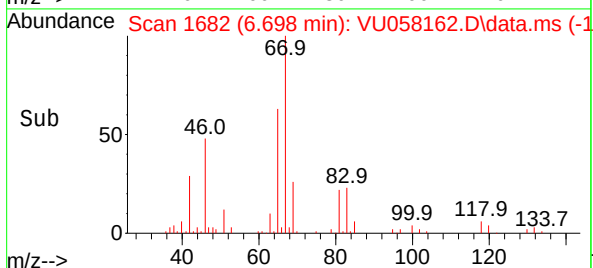
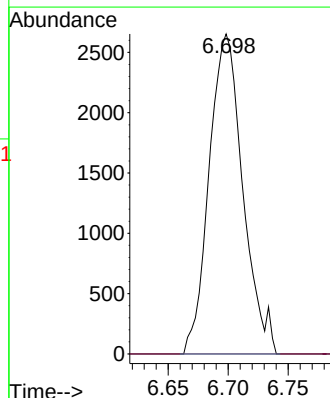
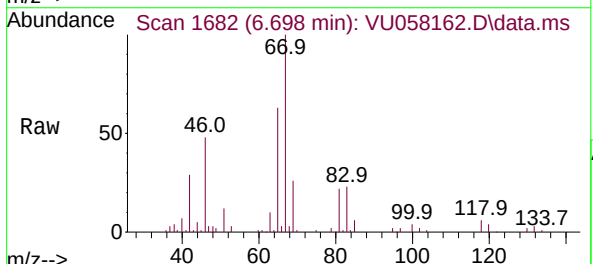
Acq: 19 Mar 2024 18:01

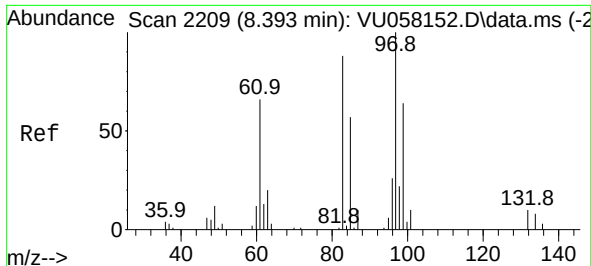
Tgt Ion: 63 Resp: 5195

Ion Ratio Lower Upper

63 100

112 0.0 3.0 4.4#

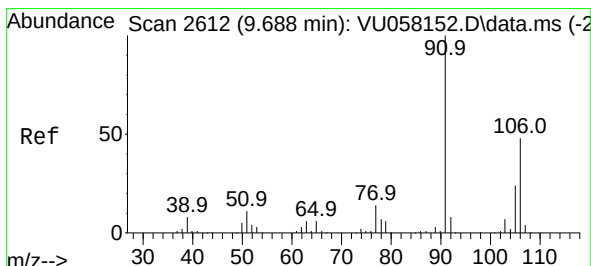
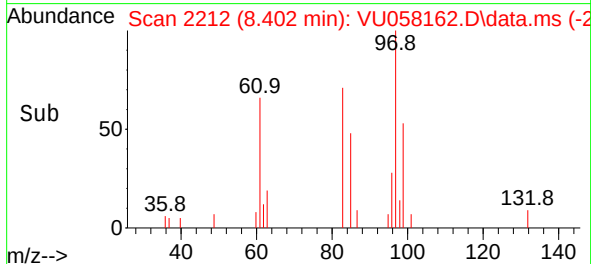
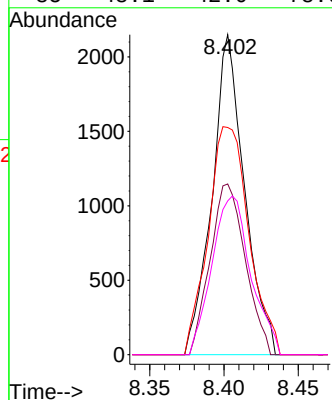
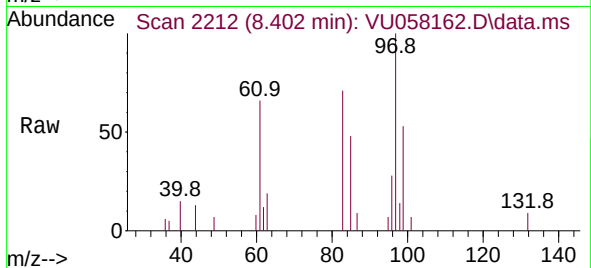




#45
1,1,2-Trichloroethane
Concen: 0.611 ug/L
RT: 8.402 min Scan# 211
Delta R.T. 0.010 min
Lab File: VU058162.D
Acq: 19 Mar 2024 18:01

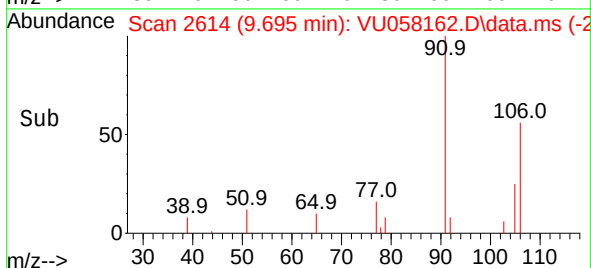
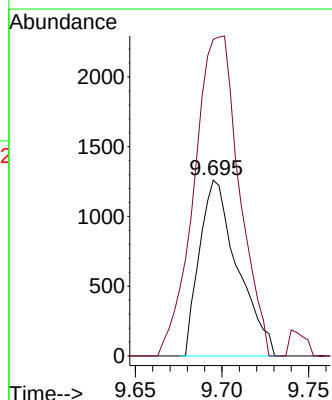
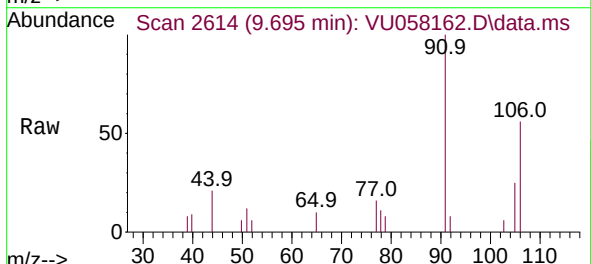
Instrument :
MSVOA_U
ClientSampleId :

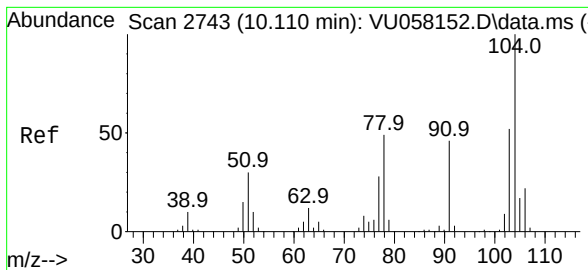
Tgt Ion: 97	Resp:	3265
Ion	Ratio	Lower Upper
97	100	
99	53.4	44.2 82.2
83	71.0	64.2 119.2
85	48.1	42.0 78.0



#53
m,p-Xylene
Concen: 0.132 ug/L
RT: 9.695 min Scan# 2614
Delta R.T. 0.007 min
Lab File: VU058162.D
Acq: 19 Mar 2024 18:01

Tgt Ion: 106	Resp:	1924
Ion	Ratio	Lower Upper
106	100	
91	180.0	148.8 276.4





#55

Styrene

Concen: 0.073 ug/L

RT: 10.116 min Scan# 21

Delta R.T. 0.007 min

Lab File: VU058162.D

Acq: 19 Mar 2024 18:01

Instrument :

MSVOA_U

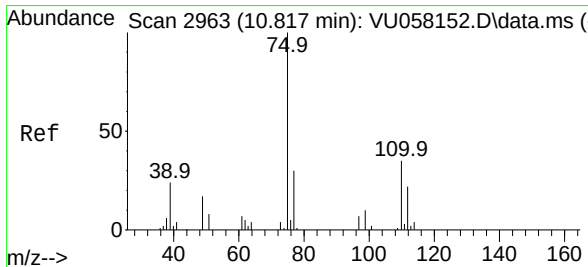
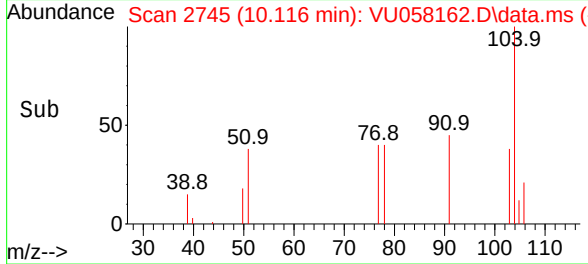
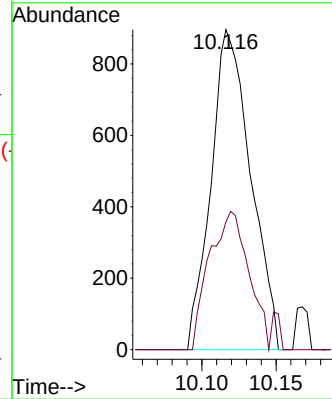
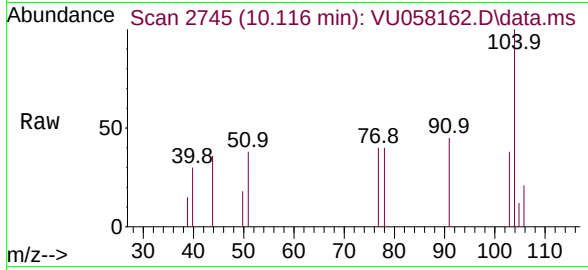
ClientSampleId :

Tgt Ion:104 Resp: 1665

Ion Ratio Lower Upper

104 100

78 35.7 34.2 63.4



#61

1,2,3-Trichloropropane

Concen: 1.852 ug/L

RT: 11.807 min Scan# 3271

Delta R.T. 0.991 min

Lab File: VU058162.D

Acq: 19 Mar 2024 18:01

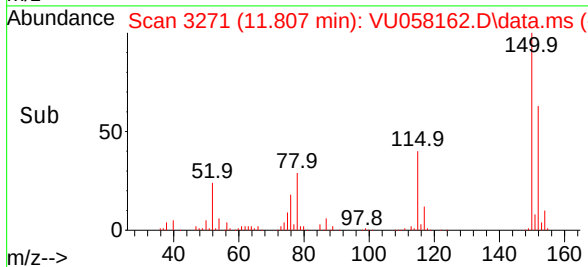
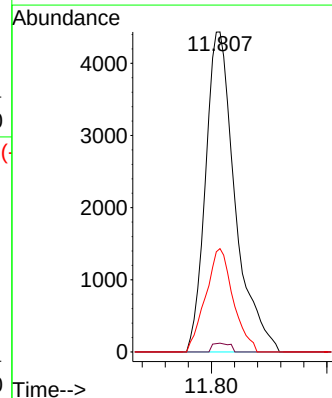
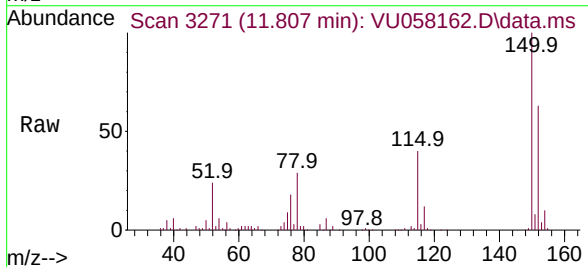
Tgt Ion: 75 Resp: 7869

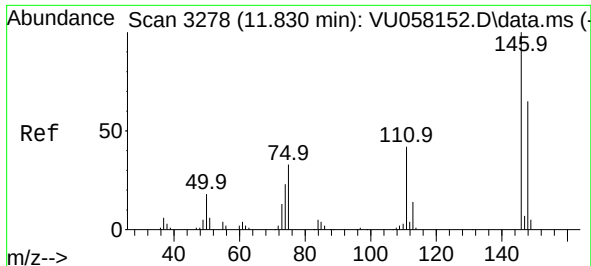
Ion Ratio Lower Upper

75 100

110 1.6 28.0 42.0#

77 30.1 24.7 37.1





#65

1,4-Dichlorobenzene

Concen: 0.178 ug/L

RT: 11.833 min Scan# 3279

Delta R.T. 0.003 min

Lab File: VU058162.D

Acq: 19 Mar 2024 18:01

Instrument :

MSVOA_U

ClientSampleId :

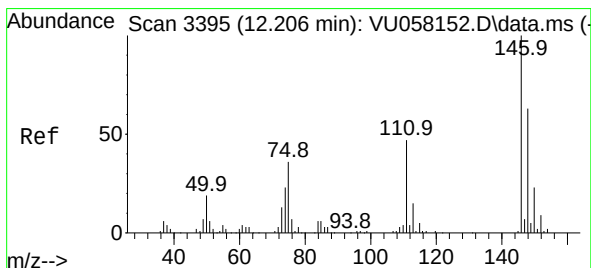
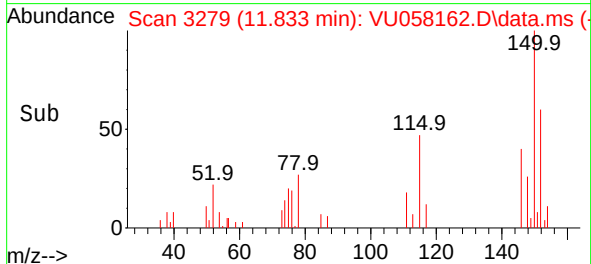
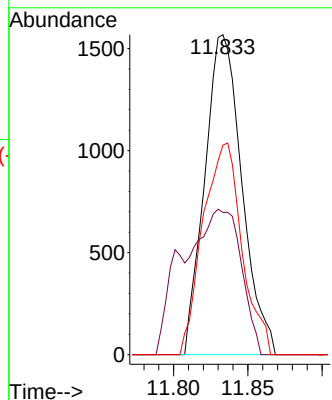
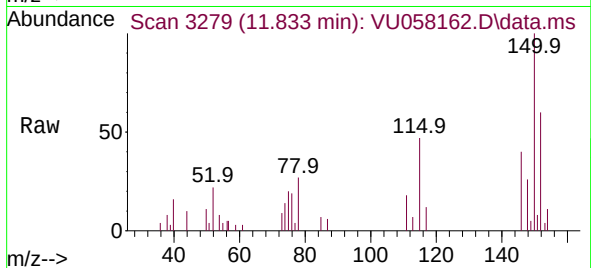
Tgt Ion:146 Resp: 2730

Ion Ratio Lower Upper

146 100

111 44.5 30.1 55.9

148 65.5 45.0 83.6



#67

1,2-Dichlorobenzene

Concen: 0.452 ug/L

RT: 12.206 min Scan# 3395

Delta R.T. 0.000 min

Lab File: VU058162.D

Acq: 19 Mar 2024 18:01

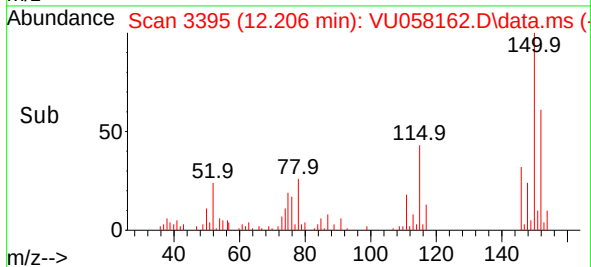
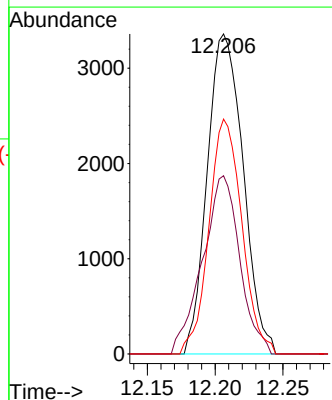
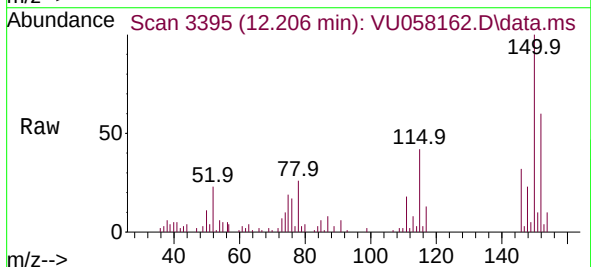
Tgt Ion:146 Resp: 6190

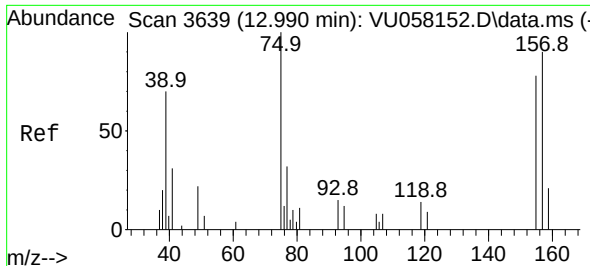
Ion Ratio Lower Upper

146 100

111 55.7 37.4 56.0

148 73.4 50.8 76.2





#68

1,2-Dibromo-3-chloropropane

Concen: 0.140 ug/L

RT: 12.997 min Scan# 3641

Delta R.T. 0.007 min

Lab File: VU058162.D

Acq: 19 Mar 2024 18:01

Instrument :

MSVOA_U

ClientSampleId :

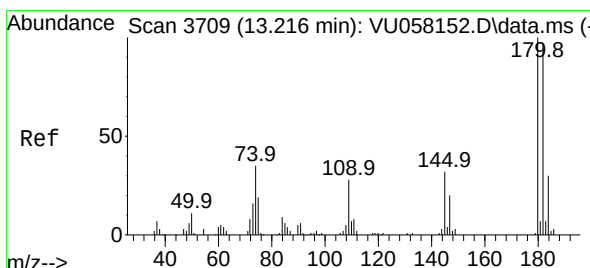
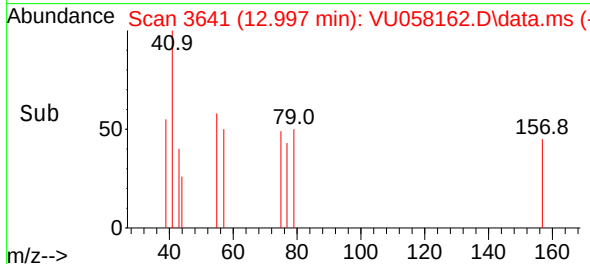
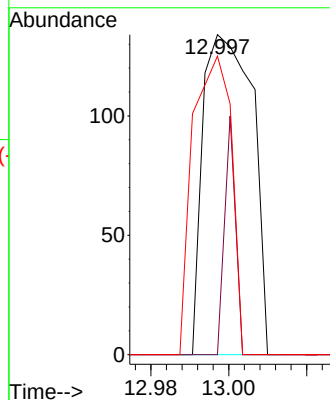
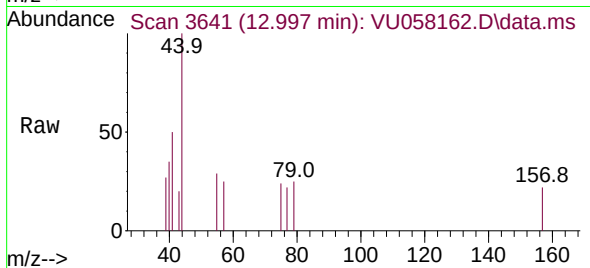
Tgt Ion: 75 Resp: 118

Ion Ratio Lower Upper

75 100

155 0.0 61.0 91.6#

157 93.3 74.6 112.0



#69

1,3,5-Trichlorobenzene

Concen: 0.317 ug/L

RT: 13.216 min Scan# 3709

Delta R.T. 0.000 min

Lab File: VU058162.D

Acq: 19 Mar 2024 18:01

Tgt Ion:180 Resp: 3585

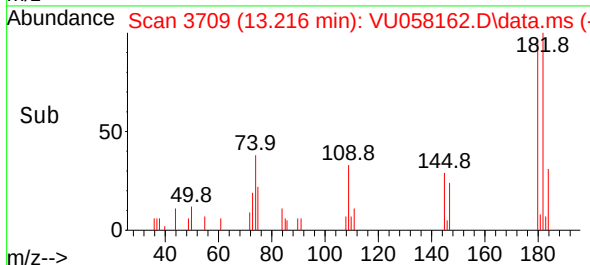
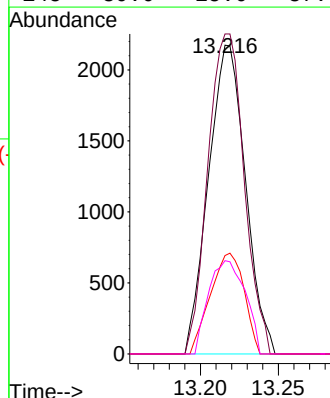
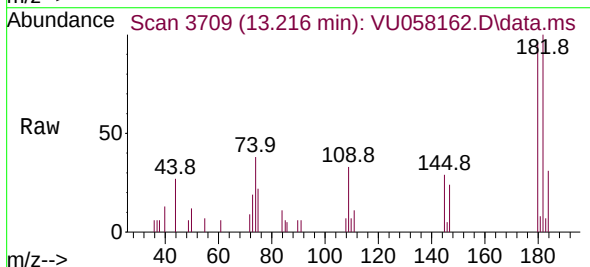
Ion Ratio Lower Upper

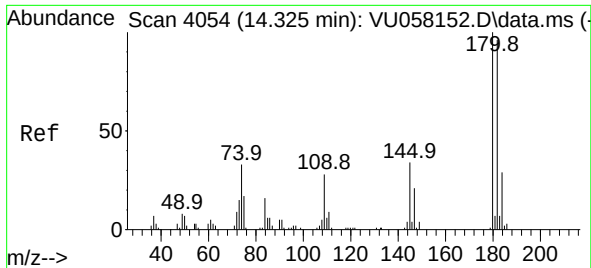
180 100

182 101.5 76.3 114.5

184 29.8 24.6 36.8

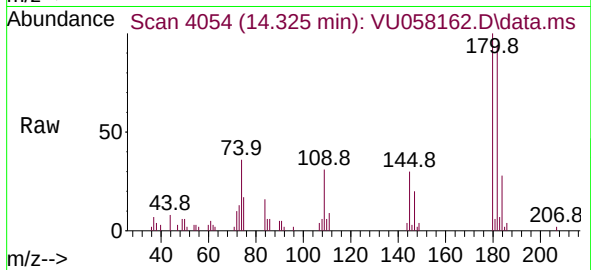
145 30.0 25.0 37.6





#72
 1,2,3-Trichlorobenzene
 Concen: 1.701 ug/L
 RT: 14.325 min Scan# 4054
 Delta R.T. 0.000 min
 Lab File: VU058162.D
 Acq: 19 Mar 2024 18:01

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:	180	Resp:	11404
Ion Ratio	Lower	Upper	
180	100		
182	96.8	77.6	116.4
145	32.0	28.7	43.1

