

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU020525\
 Data File : VU063151.D
 Acq On : 05 Feb 2025 11:43
 Operator : MD/SY
 Sample : Q1226-09
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Feb 06 07:27:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR020425WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Feb 06 07:25:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.238	114	98697	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.405	117	94258	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.801	152	42714	5.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	21896	3.879	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	77.600%
7) Chloroethane-d5	1.904	69	22131	4.224	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	84.400%
11) 1,1-Dichloroethene-d2	2.557	65	10261	4.071	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	81.400%
20) 2-Butanone-d5	4.605	46	79697	42.882	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	85.760%
24) Chloroform-d	5.046	84	52960	4.243	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.800%
26) 1,2-Dichloroethane-d4	5.689	65	27501	4.284	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.600%
32) Benzene-d6	5.714	84	104126	4.235	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.800%
36) 1,2-Dichloropropane-d6	6.679	67	35009	4.319	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	86.400%
41) Toluene-d8	7.888	98	87665	4.036	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.800%
43) trans-1,3-Dichloroprop...	8.171	79	11983	3.945	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	79.000%
46) 2-Hexanone-d5	8.621	63	59847	39.151	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	78.300%
56) 1,1,2,2-Tetrachloroeth...	10.746	84	28950	4.046	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	81.000%
66) 1,2-Dichlorobenzene-d4	12.184	152	32620	4.573	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.400%

Target Compounds					Qvalue	
5) Vinyl chloride	1.599	62	3749	0.395	ug/L #	35
12) 1,1-Dichloroethene	2.570	96	6062	0.945	ug/L #	30
14) Carbon disulfide	2.782	76	2267	0.101	ug/L	99
18) trans-1,2-Dichloroethene	3.341	96	60291	8.789	ug/L	98
22) cis-1,2-Dichloroethene	4.647	96	2150816	281.062	ug/L	98
27) 1,2-Dichloroethane	5.766	62	1749	0.196	ug/L #	75
33) Benzene	5.759	78	149831	4.830	ug/L	100
34) Trichloroethene	6.528	95	750527	95.269	ug/L	98
35) Methylcyclohexane	6.679	83	7672	0.650	ug/L #	19
37) 1,2-Dichloropropane	6.679	63	3747	0.453	ug/L #	90
42) Toluene	7.962	91	3400	0.105	ug/L	96
47) Tetrachloroethene	8.541	164	212981	38.494	ug/L	99
49) Dibromochloromethane	8.541	129	210153	32.677	ug/L #	11
51) Chlorobenzene	9.434	112	1214401	62.052	ug/L	100
54) o-Xylene	10.090	106	6568	0.541	ug/L	93
60) Isopropylbenzene	10.473	105	57325	1.890	ug/L #	85
61) 1,2,3-Trichloropropane	11.737	75	3251	0.631	ug/L #	49
62) 1,3,5-Trimethylbenzene	11.884	105	8130	0.340	ug/L	91
63) 1,2,4-Trimethylbenzene	11.884	105	8130	0.353	ug/L	97

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Thu Feb 06 07:25:52 2025
Response via : Initial Calibration

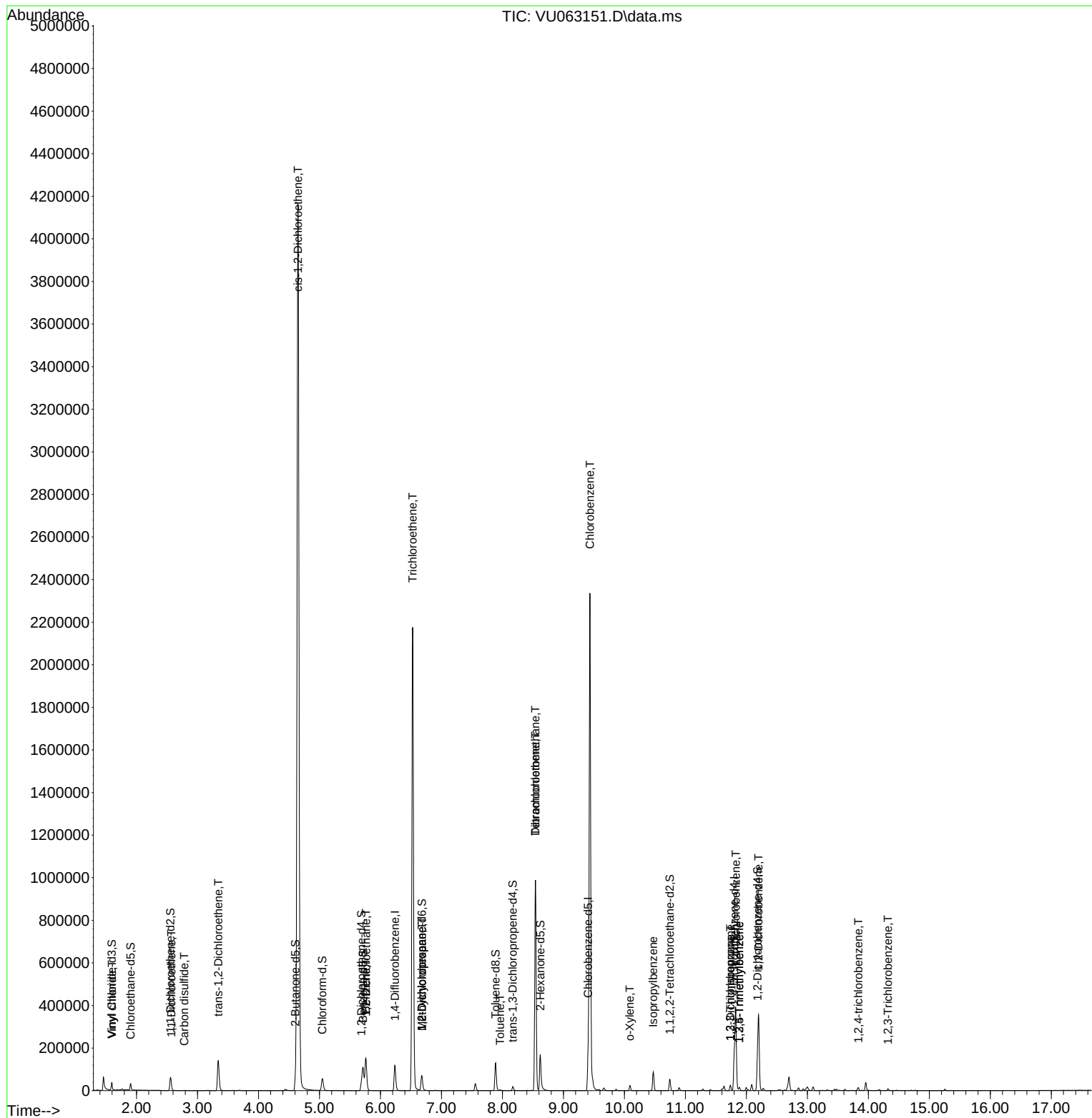
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 1,3-Dichlorobenzene	11.737	146	10289	0.749	ug/L	96
65) 1,4-Dichlorobenzene	11.827	146	150890	10.921	ug/L	99
67) 1,2-Dichlorobenzene	12.200	146	131181	10.215	ug/L	99
70) 1,2,4-trichlorobenzene	13.836	180	4571	0.619	ug/L #	96
72) 1,2,3-Trichlorobenzene	14.322	180	3190	0.483	ug/L	91

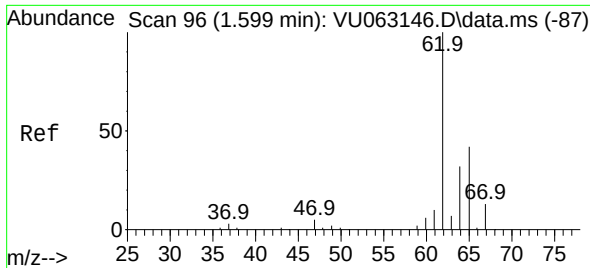
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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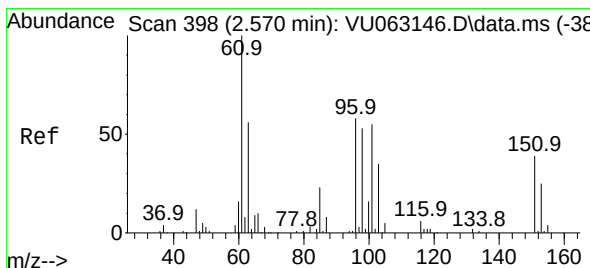
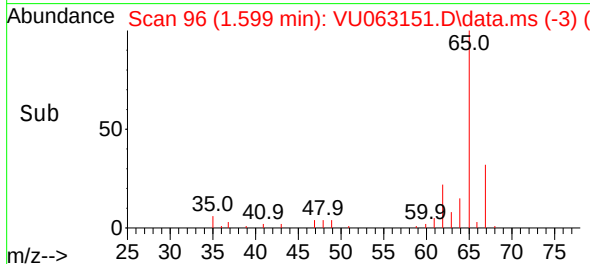
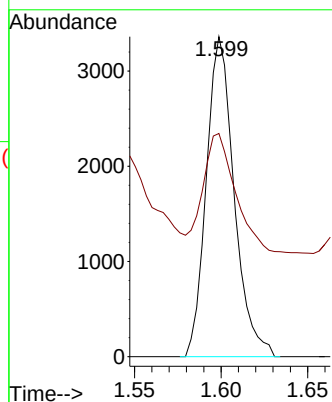
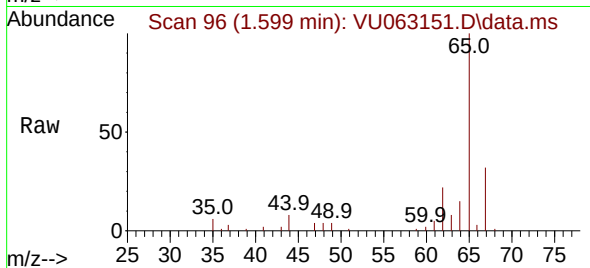




#5
 Vinyl chloride
 Concen: 0.395 ug/L
 RT: 1.599 min Scan# 96
 Delta R.T. 0.000 min
 Lab File: VU063151.D
 Acq: 05 Feb 2025 11:43

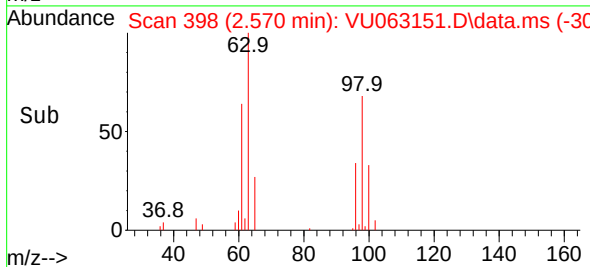
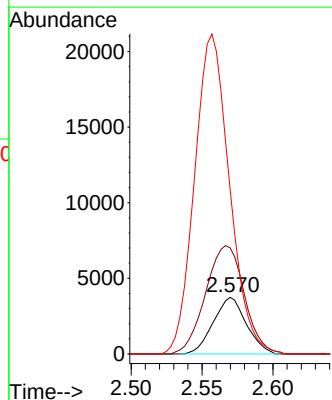
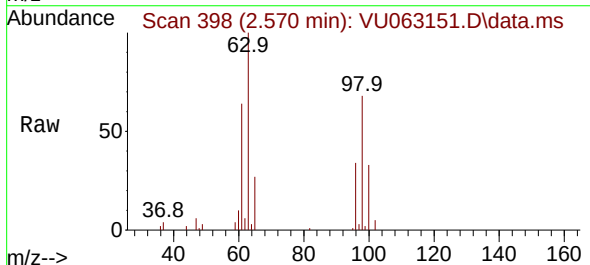
Instrument :
 MSVOA_U
 ClientSampleId :

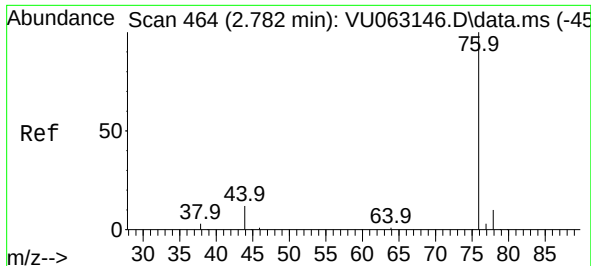
Tgt Ion: 62 Resp: 3749
 Ion Ratio Lower Upper
 62 100
 64 69.8 23.2 43.0#



#12
 1,1-Dichloroethene
 Concen: 0.945 ug/L
 RT: 2.570 min Scan# 398
 Delta R.T. 0.000 min
 Lab File: VU063151.D
 Acq: 05 Feb 2025 11:43

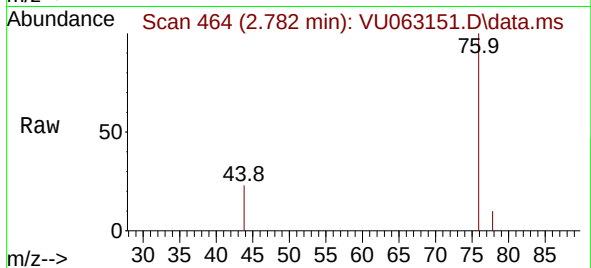
Tgt Ion: 96 Resp: 6062
 Ion Ratio Lower Upper
 96 100
 61 187.2 121.9 226.3
 63 290.9 80.3 149.1#



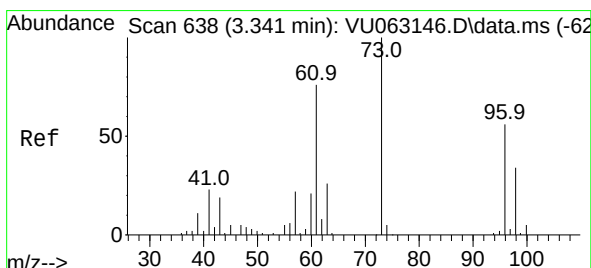
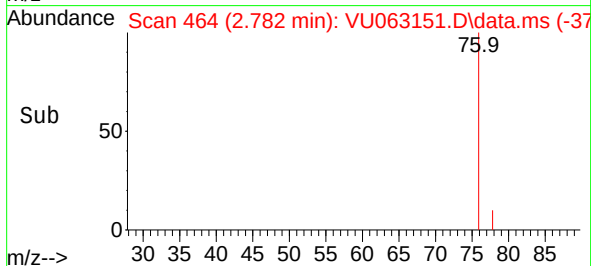
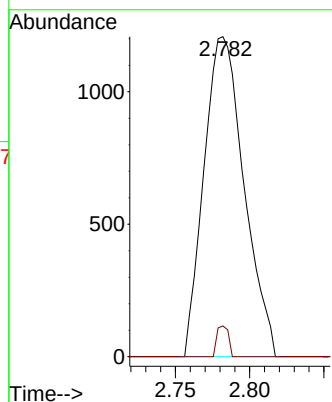


#14
Carbon disulfide
Concen: 0.101 ug/L
RT: 2.782 min Scan# 464
Delta R.T. 0.000 min
Lab File: VU063151.D
Acq: 05 Feb 2025 11:43

Instrument :
MSVOA_U
ClientSampleId :

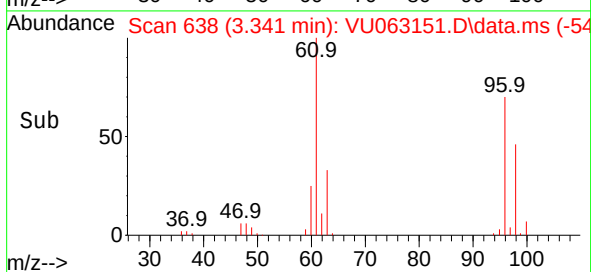
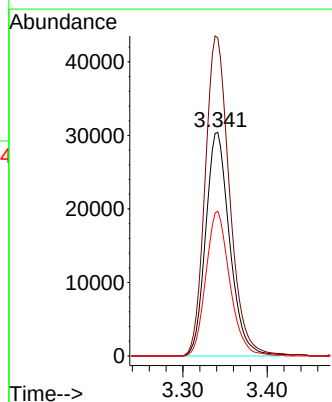
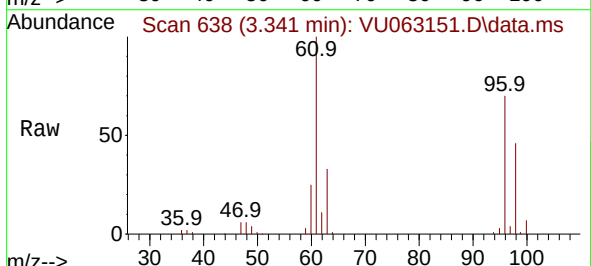


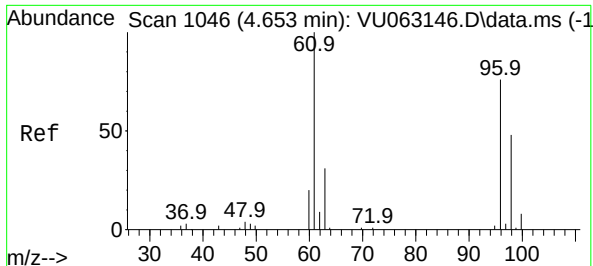
Tgt Ion: 76 Resp: 2267
Ion Ratio Lower Upper
76 100
78 9.6 7.5 11.3



#18
trans-1,2-Dichloroethene
Concen: 8.789 ug/L
RT: 3.341 min Scan# 638
Delta R.T. 0.000 min
Lab File: VU063151.D
Acq: 05 Feb 2025 11:43

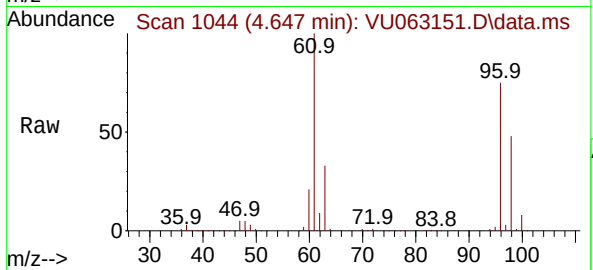
Tgt Ion: 96 Resp: 60291
Ion Ratio Lower Upper
96 100
61 142.3 99.2 184.2
98 64.7 43.2 80.2





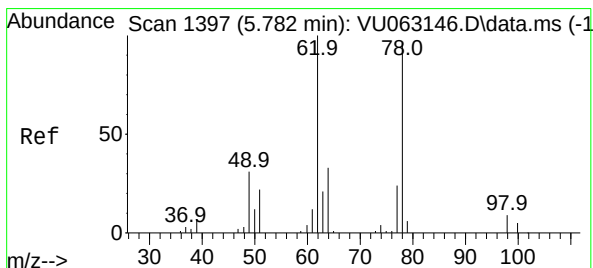
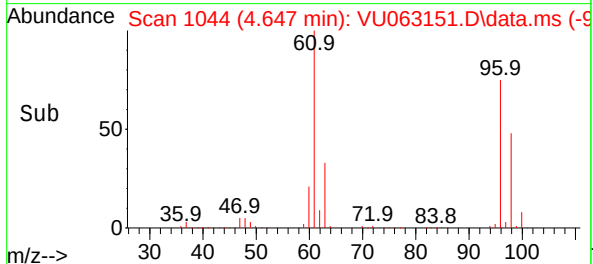
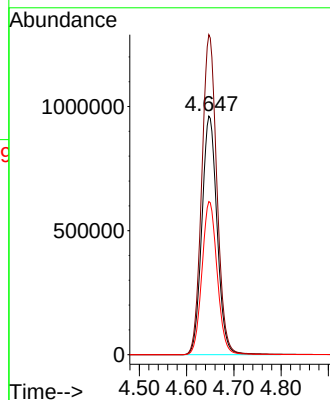
#22
cis-1,2-Dichloroethene
Concen: 281.062 ug/L
RT: 4.647 min Scan# 1044
Delta R.T. -0.006 min
Lab File: VU063151.D
Acq: 05 Feb 2025 11:43

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion: 96 Resp: 2150816

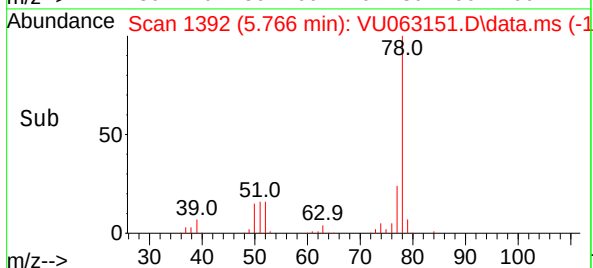
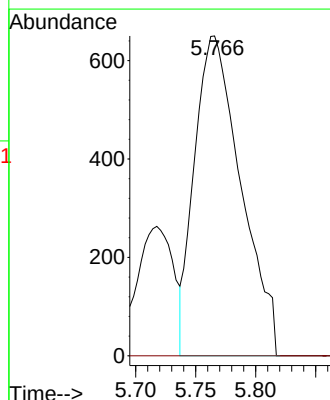
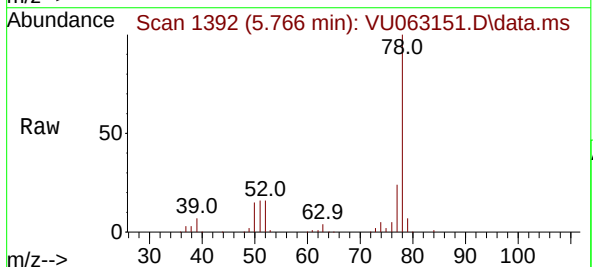
Ion	Ratio	Lower	Upper
96	100		
61	134.2	91.8	170.6
98	64.2	44.4	82.4

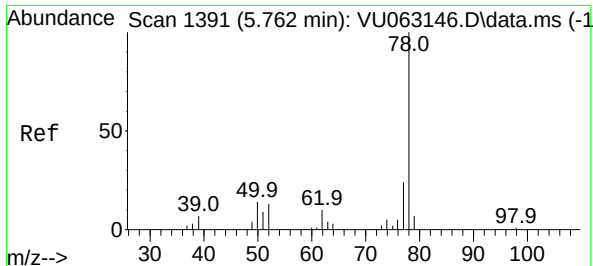


#27
1,2-Dichloroethane
Concen: 0.196 ug/L
RT: 5.766 min Scan# 1392
Delta R.T. -0.016 min
Lab File: VU063151.D
Acq: 05 Feb 2025 11:43

Tgt Ion: 62 Resp: 1749

Ion	Ratio	Lower	Upper
62	100		
98	0.0	7.2	10.8#





#33

Benzene

Concen: 4.830 ug/L

RT: 5.759 min Scan# 14

Delta R.T. -0.003 min

Lab File: VU063151.D

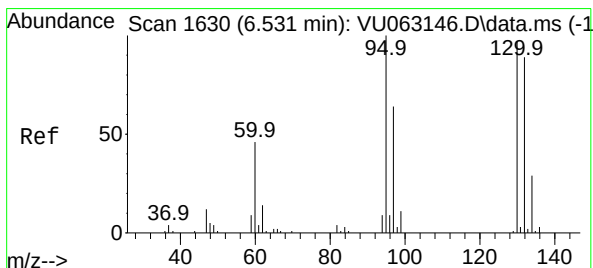
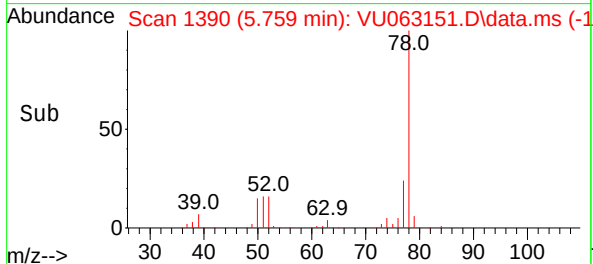
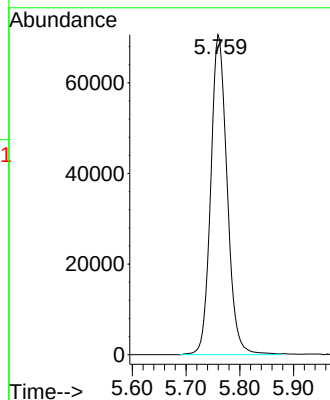
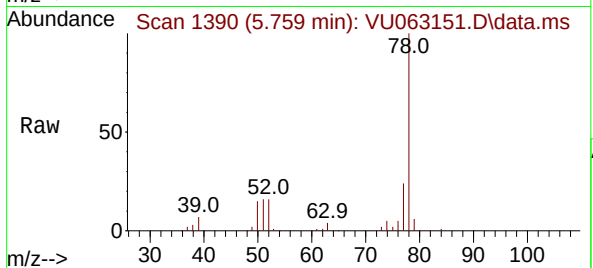
Acq: 05 Feb 2025 11:43

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 78 Resp: 149831



#34

Trichloroethene

Concen: 95.269 ug/L

RT: 6.528 min Scan# 1629

Delta R.T. -0.003 min

Lab File: VU063151.D

Acq: 05 Feb 2025 11:43

Tgt Ion: 95 Resp: 750527

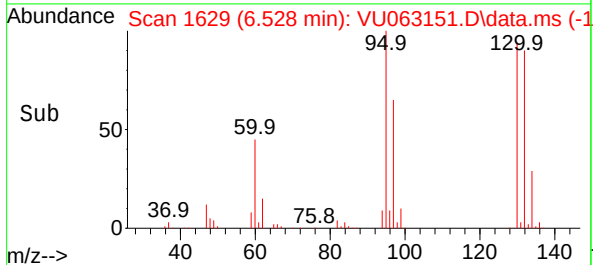
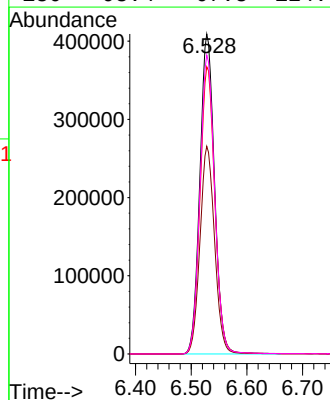
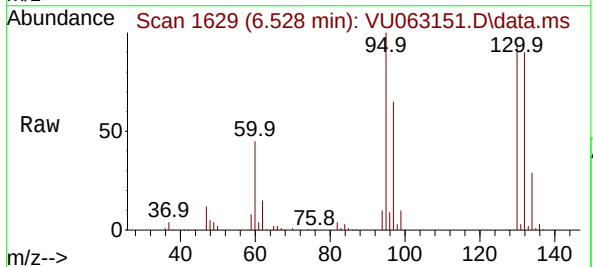
Ion Ratio Lower Upper

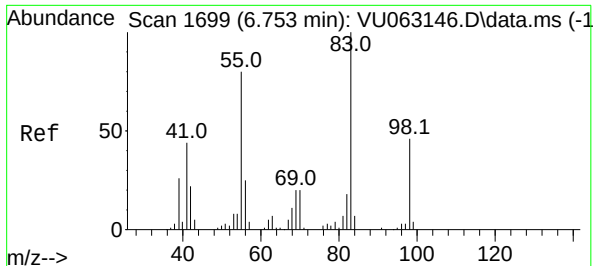
95 100

97 64.9 46.7 86.7

132 89.8 62.4 115.8

130 93.4 67.3 124.9





#35

Methylcyclohexane

Concen: 0.650 ug/L

RT: 6.679 min Scan# 1676

Delta R.T. -0.074 min

Lab File: VU063151.D

Acq: 05 Feb 2025 11:43

Instrument :

MSVOA_U

ClientSampleId :

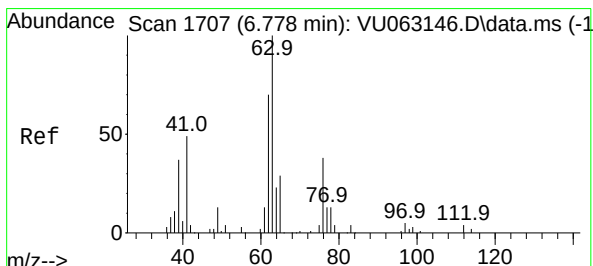
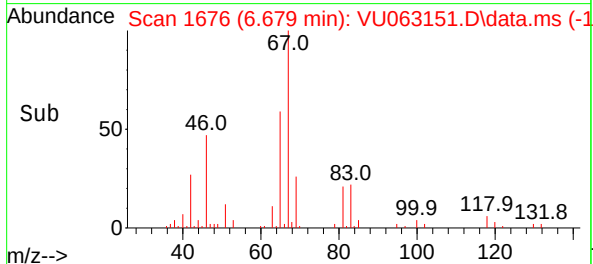
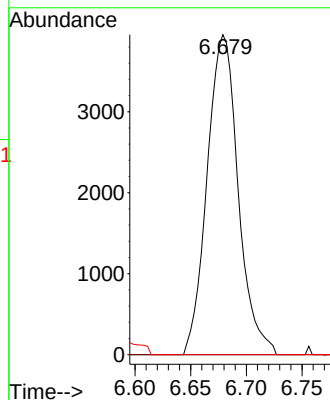
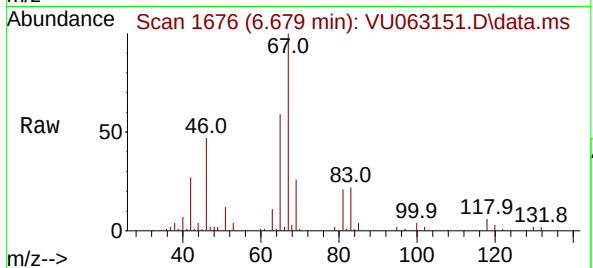
Tgt Ion: 83 Resp: 7672

Ion Ratio Lower Upper

83 100

55 2.0 62.8 94.2#

98 0.0 36.0 54.0#



#37

1,2-Dichloropropane

Concen: 0.453 ug/L

RT: 6.679 min Scan# 1676

Delta R.T. -0.100 min

Lab File: VU063151.D

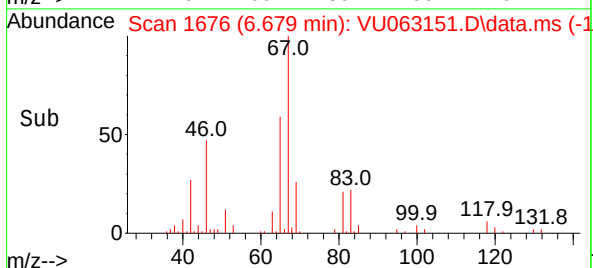
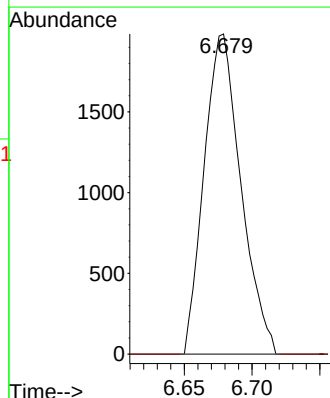
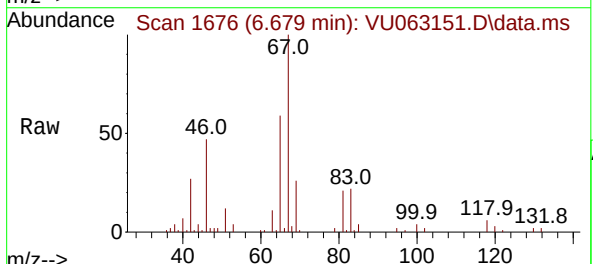
Acq: 05 Feb 2025 11:43

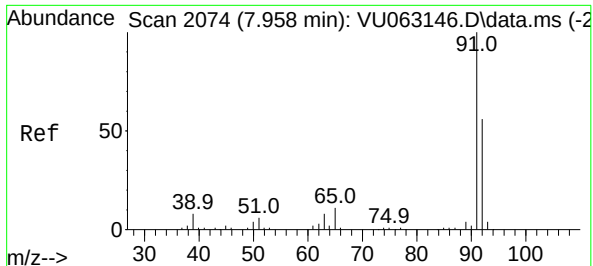
Tgt Ion: 63 Resp: 3747

Ion Ratio Lower Upper

63 100

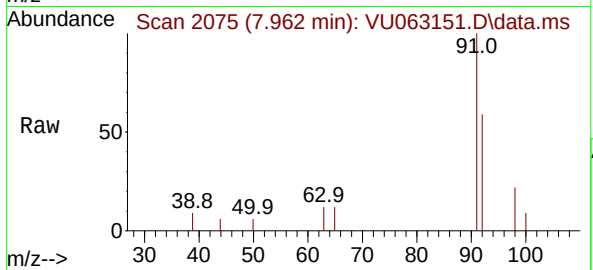
112 0.0 2.6 4.0#



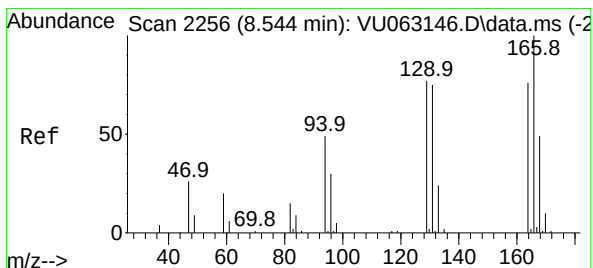
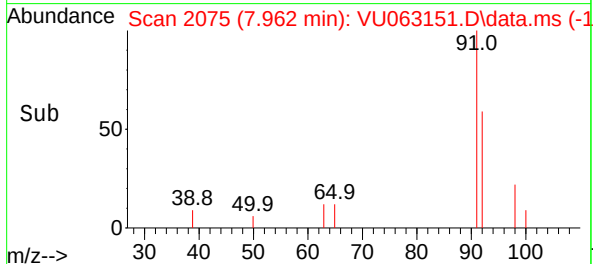
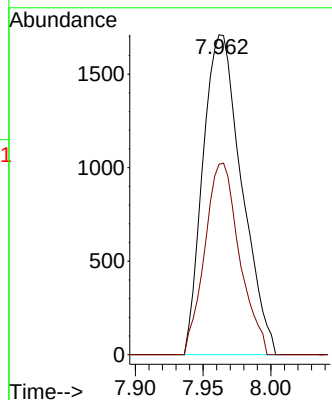


#42
Toluene
Concen: 0.105 ug/L
RT: 7.962 min Scan# 2075
Delta R.T. 0.003 min
Lab File: VU063151.D
Acq: 05 Feb 2025 11:43

Instrument :
MSVOA_U
ClientSampleId :

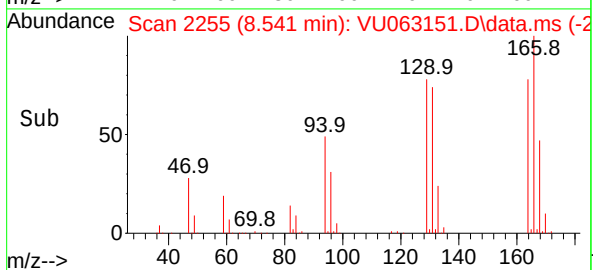
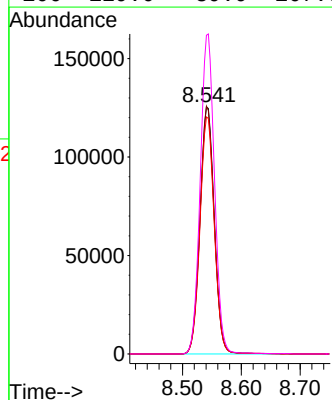
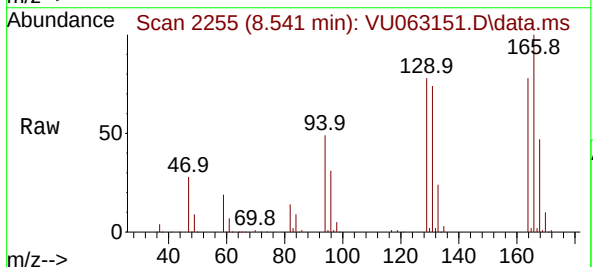


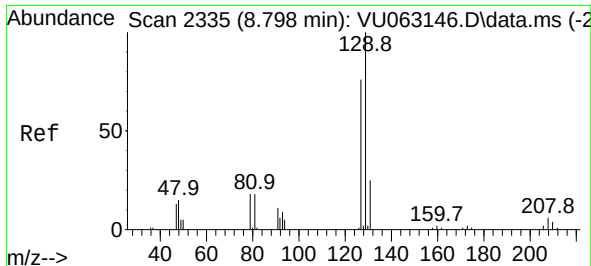
Tgt Ion: 91 Resp: 3400
Ion Ratio Lower Upper
91 100
92 59.5 39.5 73.4



#47
Tetrachloroethene
Concen: 38.494 ug/L
RT: 8.541 min Scan# 2255
Delta R.T. -0.003 min
Lab File: VU063151.D
Acq: 05 Feb 2025 11:43

Tgt Ion: 164 Resp: 212981
Ion Ratio Lower Upper
164 100
129 100.3 68.6 127.4
131 95.9 66.5 123.5
166 129.0 89.9 167.0





#49

Dibromochloromethane

Concen: 32.677 ug/L

RT: 8.541 min Scan# 21

Delta R.T. -0.257 min

Lab File: VU063151.D

Acq: 05 Feb 2025 11:43

Instrument :

MSVOA_U

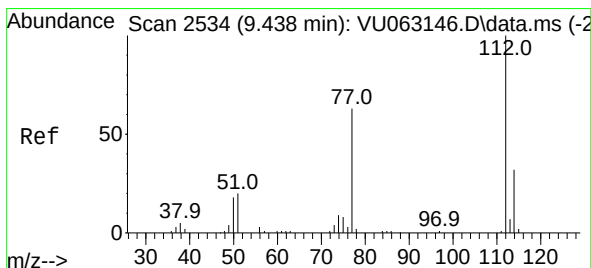
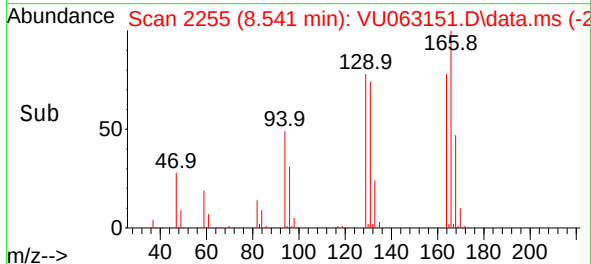
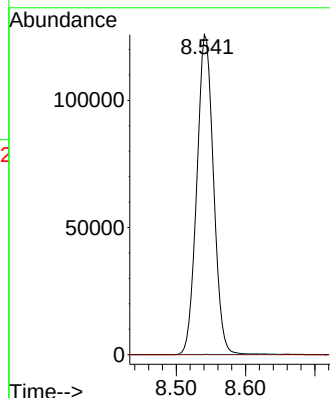
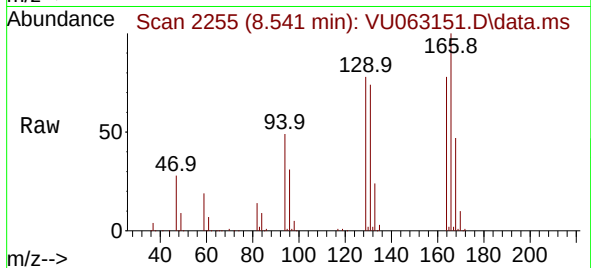
ClientSampleId :

Tgt Ion:129 Resp: 210153

Ion Ratio Lower Upper

129 100

127 0.0 53.8 99.8#



#51

Chlorobenzene

Concen: 62.052 ug/L

RT: 9.434 min Scan# 2533

Delta R.T. -0.003 min

Lab File: VU063151.D

Acq: 05 Feb 2025 11:43

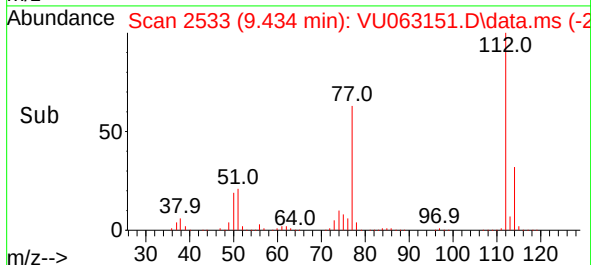
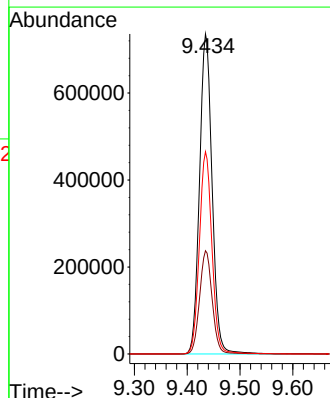
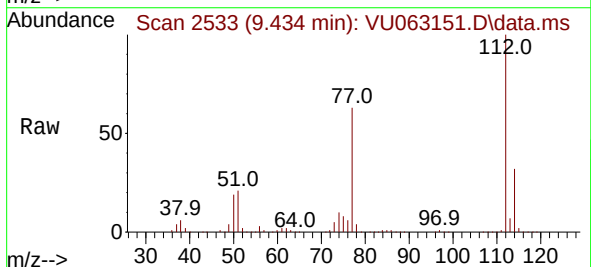
Tgt Ion:112 Resp: 1214401

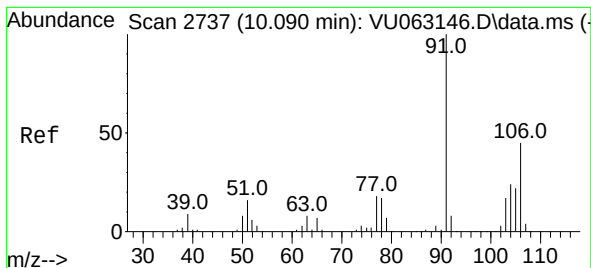
Ion Ratio Lower Upper

112 100

114 32.3 22.6 42.0

77 63.2 50.8 76.2





#54

o-Xylene

Concen: 0.541 ug/L

RT: 10.090 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU063151.D

Acq: 05 Feb 2025 11:43

Instrument :

MSVOA_U

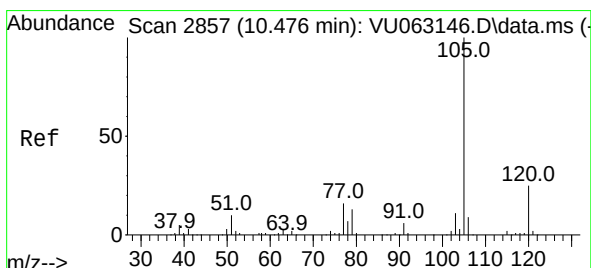
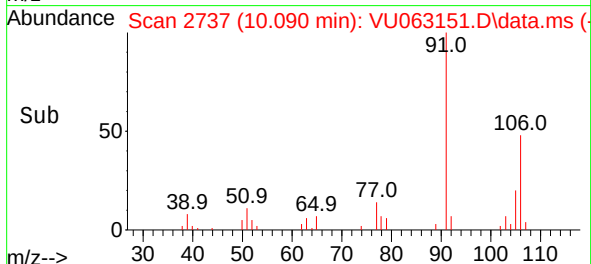
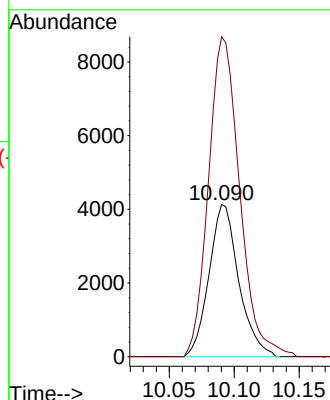
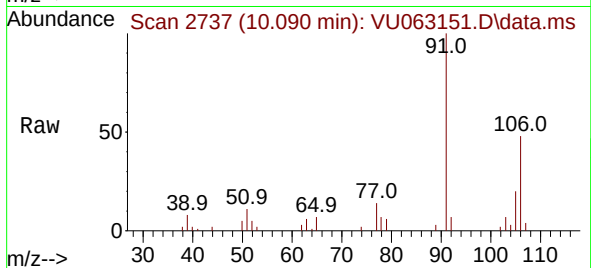
ClientSampleId :

Tgt Ion:106 Resp: 6568

Ion Ratio Lower Upper

106 100

91 210.2 155.4 288.6



#60

Isopropylbenzene

Concen: 1.890 ug/L

RT: 10.473 min Scan# 2856

Delta R.T. -0.003 min

Lab File: VU063151.D

Acq: 05 Feb 2025 11:43

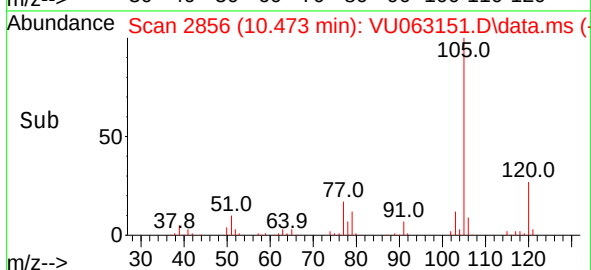
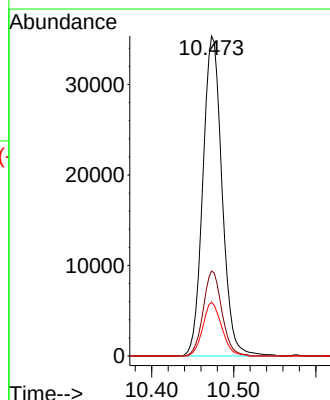
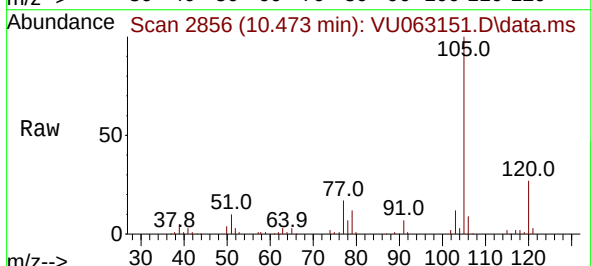
Tgt Ion:105 Resp: 57325

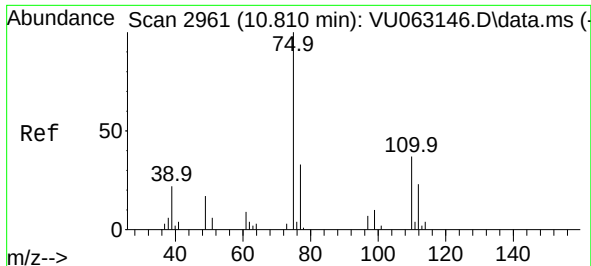
Ion Ratio Lower Upper

105 100

120 25.9 20.8 31.2

77 0.0 13.3 19.9#





#61

1,2,3-Trichloropropane

Concen: 0.631 ug/L

RT: 11.737 min Scan# 31

Delta R.T. 0.926 min

Lab File: VU063151.D

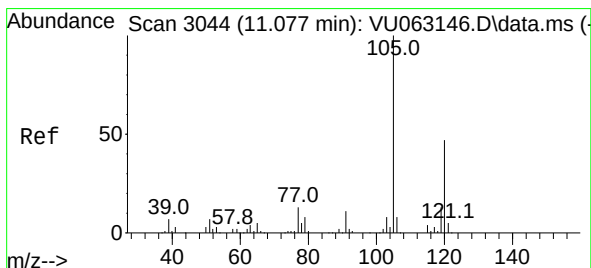
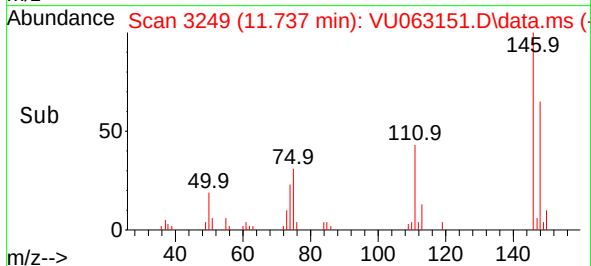
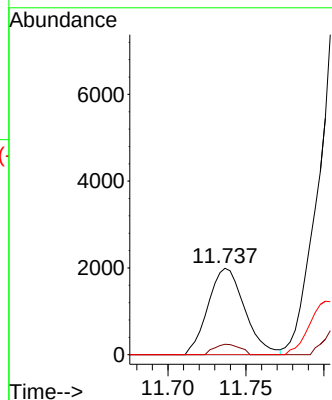
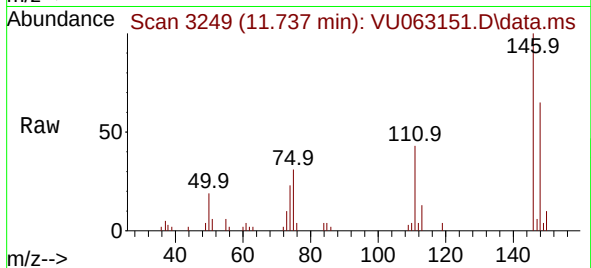
Acq: 05 Feb 2025 11:43

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:	75	Resp:	3251
Ion Ratio	Lower	Upper	
75	100		
110	8.5	27.4	41.0#
77	0.0	26.3	39.5#



#62

1,3,5-Trimethylbenzene

Concen: 0.340 ug/L

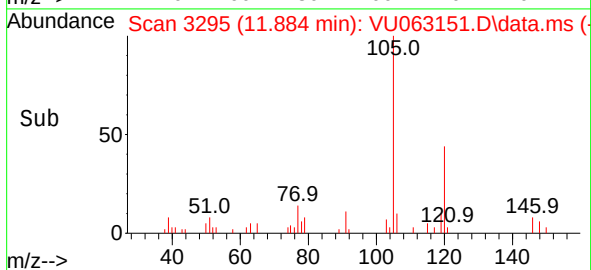
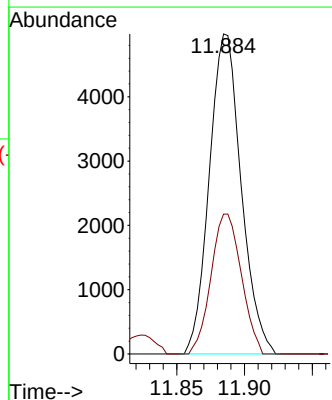
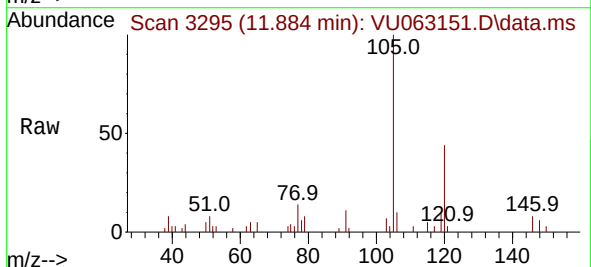
RT: 11.884 min Scan# 3295

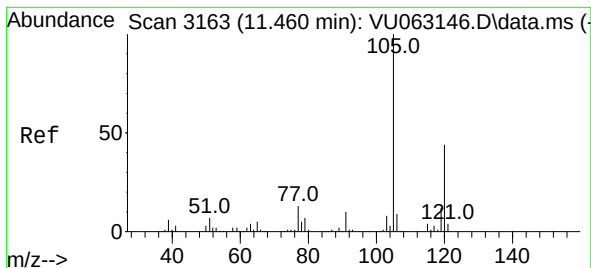
Delta R.T. 0.807 min

Lab File: VU063151.D

Acq: 05 Feb 2025 11:43

Tgt Ion:	105	Resp:	8130
Ion Ratio	Lower	Upper	
105	100		
120	41.5	37.8	56.8





#63

1,2,4-Trimethylbenzene

Concen: 0.353 ug/L

RT: 11.884 min Scan# 3163

Delta R.T. 0.425 min

Lab File: VU063151.D

Acq: 05 Feb 2025 11:43

Instrument :

MSVOA_U

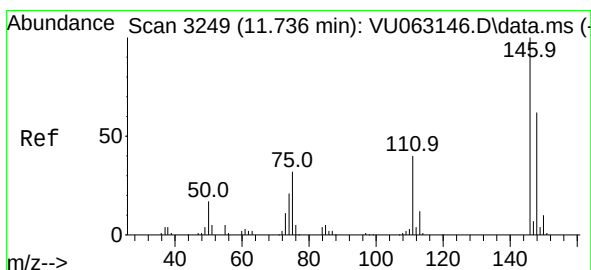
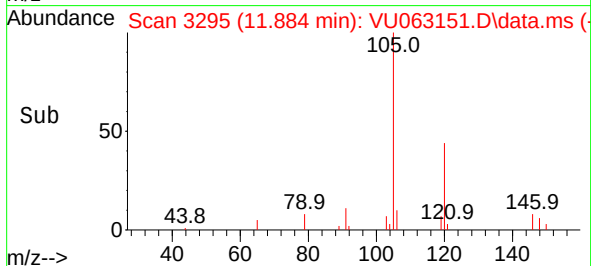
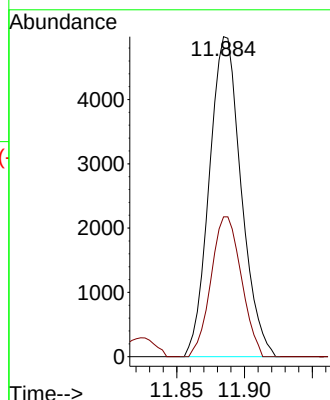
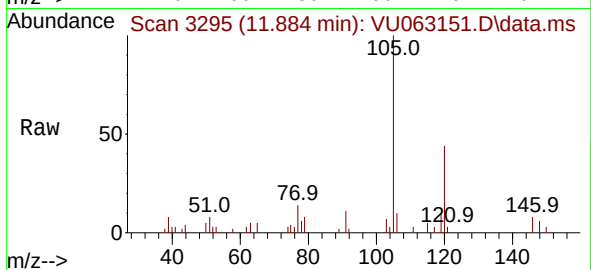
ClientSampleId :

Tgt Ion:105 Resp: 8130

Ion Ratio Lower Upper

105 100

120 41.5 34.7 52.1



#64

1,3-Dichlorobenzene

Concen: 0.749 ug/L

RT: 11.737 min Scan# 3249

Delta R.T. 0.000 min

Lab File: VU063151.D

Acq: 05 Feb 2025 11:43

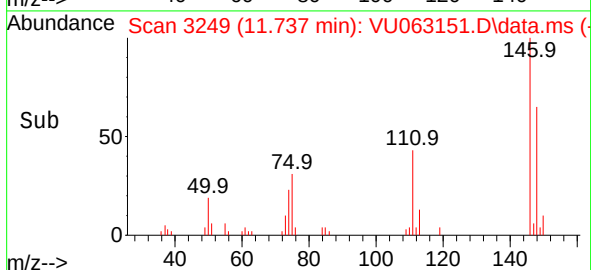
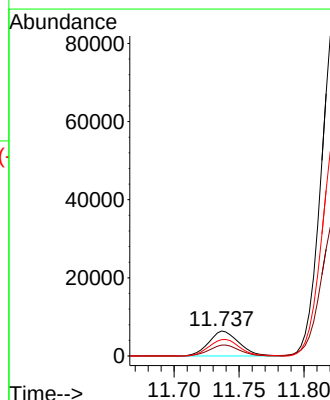
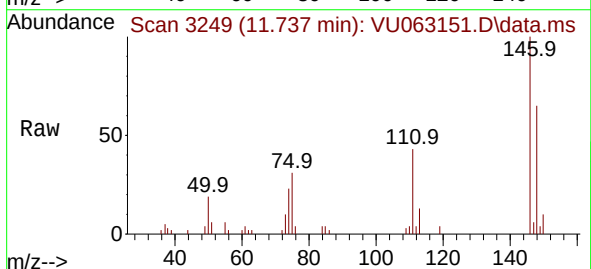
Tgt Ion:146 Resp: 10289

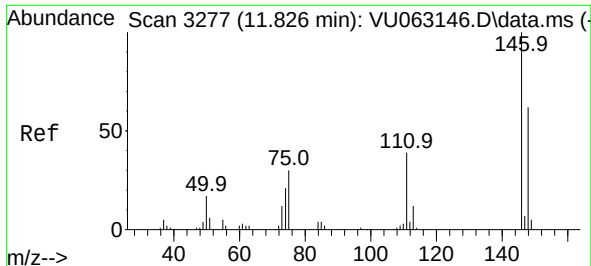
Ion Ratio Lower Upper

146 100

111 43.4 27.9 51.7

148 65.4 44.6 82.8





#65

1,4-Dichlorobenzene

Concen: 10.921 ug/L

RT: 11.827 min Scan# 3277

Delta R.T. 0.000 min

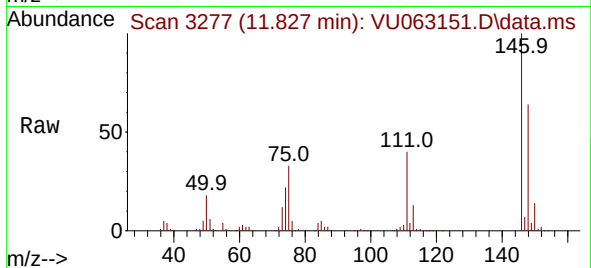
Lab File: VU063151.D

Acq: 05 Feb 2025 11:43

Instrument :

MSVOA_U

ClientSampleId :



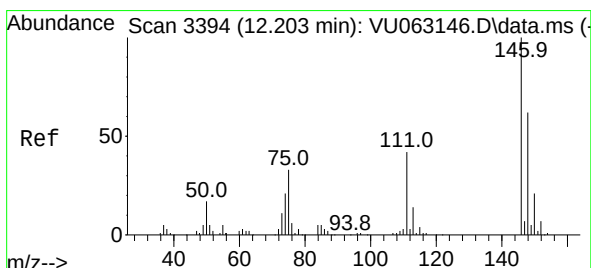
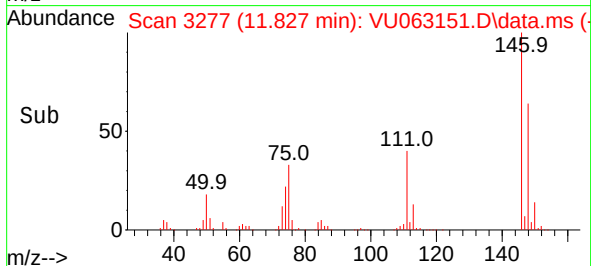
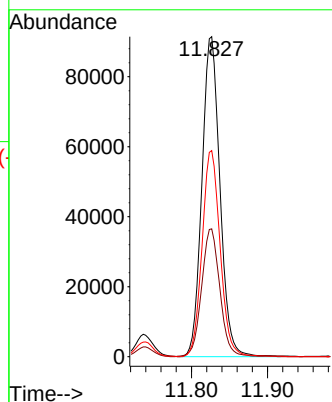
Tgt Ion:146 Resp: 150890

Ion Ratio Lower Upper

146 100

111 39.9 28.5 52.9

148 64.4 45.4 84.2



#67

1,2-Dichlorobenzene

Concen: 10.215 ug/L

RT: 12.200 min Scan# 3393

Delta R.T. -0.003 min

Lab File: VU063151.D

Acq: 05 Feb 2025 11:43

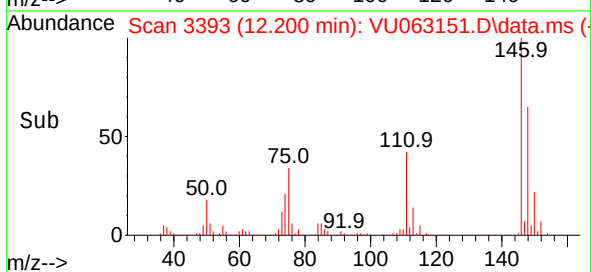
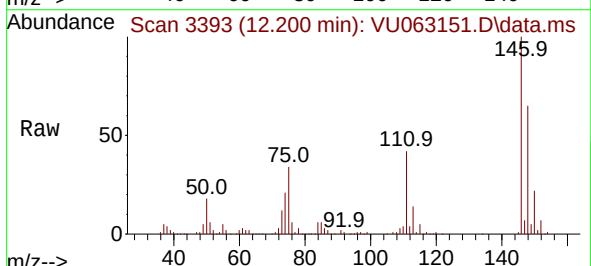
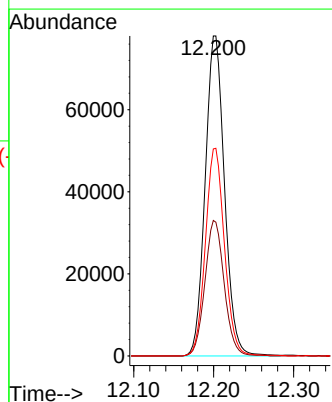
Tgt Ion:146 Resp: 131181

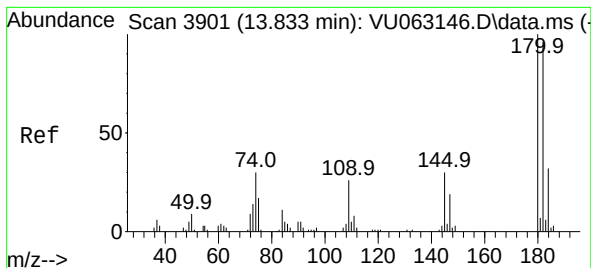
Ion Ratio Lower Upper

146 100

111 42.3 34.1 51.1

148 64.7 52.5 78.7





#70

1,2,4-trichlorobenzene

Concen: 0.619 ug/L

RT: 13.836 min Scan# 3901

Delta R.T. 0.003 min

Lab File: VU063151.D

Acq: 05 Feb 2025 11:43

Instrument :

MSVOA_U

ClientSampleId :

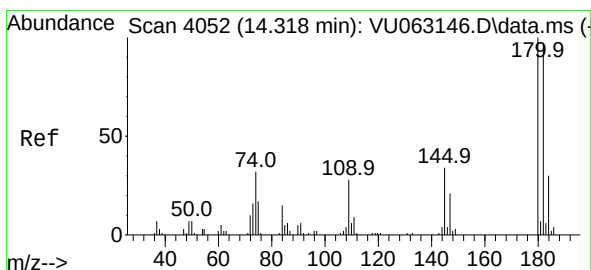
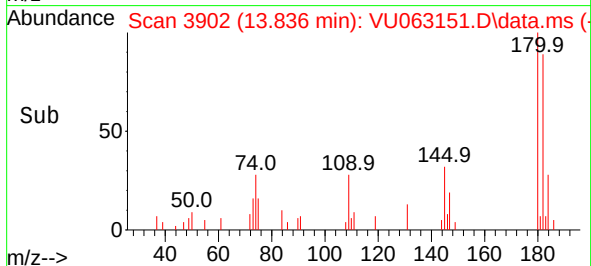
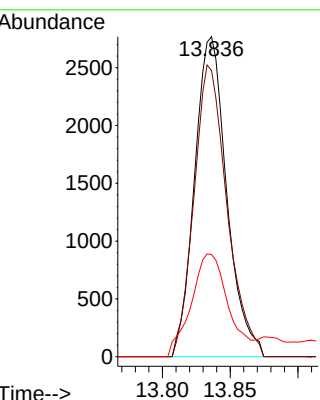
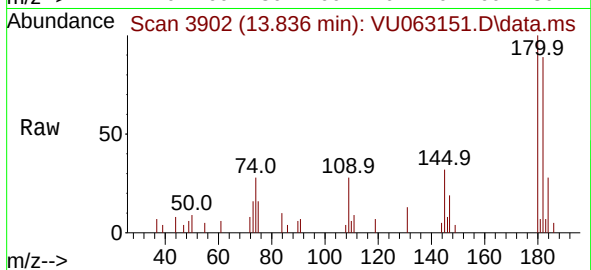
Tgt Ion:180 Resp: 4571

Ion Ratio Lower Upper

180 100

182 93.3 76.1 114.1

145 37.4 24.3 36.5#



#72

1,2,3-Trichlorobenzene

Concen: 0.483 ug/L

RT: 14.322 min Scan# 4053

Delta R.T. 0.003 min

Lab File: VU063151.D

Acq: 05 Feb 2025 11:43

Tgt Ion:180 Resp: 3190

Ion Ratio Lower Upper

180 100

182 88.5 78.5 117.7

145 37.1 26.1 39.1

