

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041972.D
 Acq On : 03 Feb 2025 21:32
 Operator : SY/MD
 Sample : Q1168-13 0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 04 02:40:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

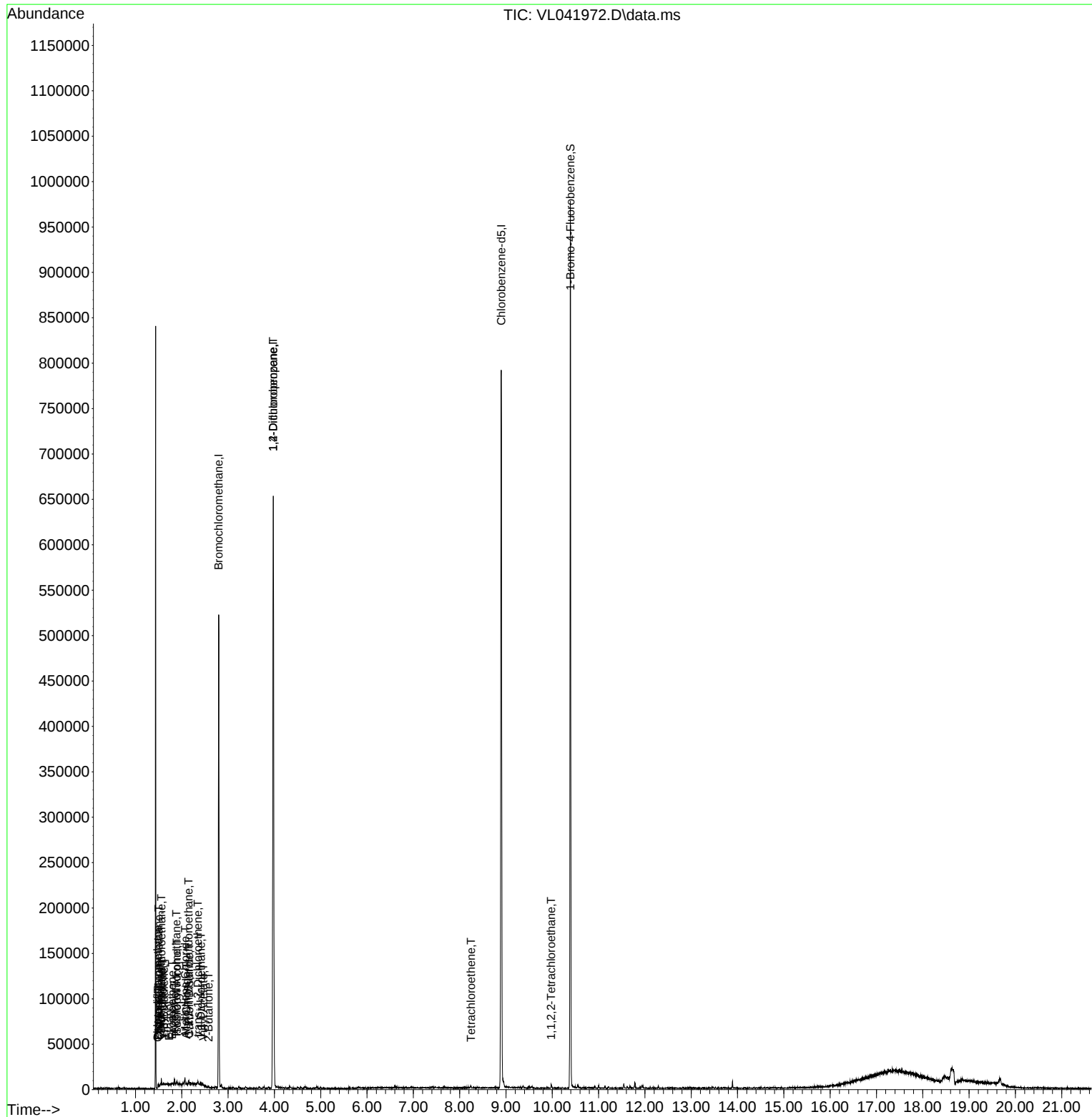
Internal Standards						
1) Bromochloromethane	2.797	49	145137	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	376767	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	324530	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	236152	9.239	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	673	0.034	ppbv	99
3) Chlorodifluoromethane	1.480	51	788	0.038	ppbv	93
4) Chloromethane	1.538	50	435	0.059	ppbv #	88
5) Vinyl Chloride	1.583	62	278	0.037	ppbv #	31
8) Dichlorotetrafluoroethane	1.557	85	621	0.036	ppbv	95
9) Propene	1.486	41	613	0.072	ppbv #	62
11) Trichlorofluoromethane	1.881	101	713	0.035	ppbv	91
12) 1,1,2-Trichlorotrifluo...	2.146	101	602	0.037	ppbv	94
13) Ethanol	1.729	45	349	0.558	ppbv #	31
14) Bromoethene	1.787	108	233	0.039	ppbv #	64
15) Acetone	1.842	43	2779	0.159	ppbv	95
16) 1,3-Butadiene	1.615	39	251	0.032	ppbv #	38
19) Isopropyl Alcohol	1.894	45	1239	0.120	ppbv #	56
20) Methylene Chloride	2.072	84	370	0.054	ppbv #	44
21) Allyl Chloride	2.101	41	399	0.033	ppbv #	15
22) trans-1,2-Dichloroethene	2.350	96	293	0.036	ppbv #	38
23) Vinyl Acetate	2.467	43	779	0.090	ppbv #	6
24) 1,1-Dichloroethane	2.412	63	523	0.033	ppbv #	87
27) Carbon Disulfide	2.162	76	599	0.033	ppbv #	1
34) 2-Butanone	2.577	43	1209	0.050	ppbv	96
39) 1,2-Dichloropropane	3.975	63	90361	7.455	ppbv #	21
52) Tetrachloroethene	8.247	164	370	0.031	ppbv #	13
63) 1,1,2,2-Tetrachloroethane	9.976	83	809	0.031	ppbv #	65

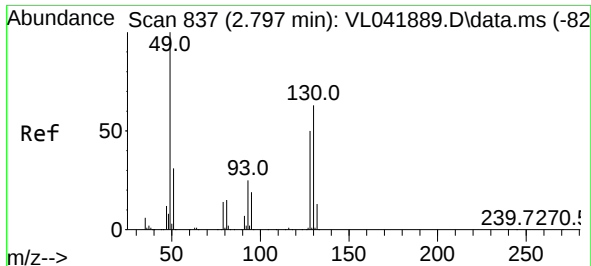
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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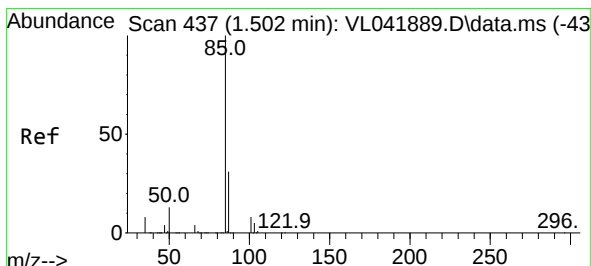
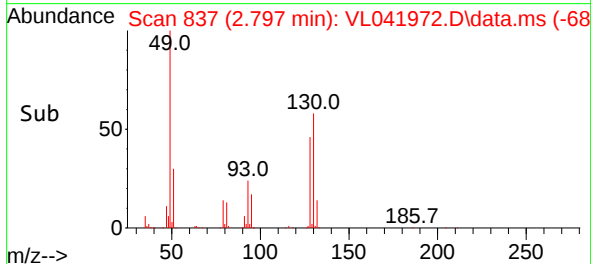
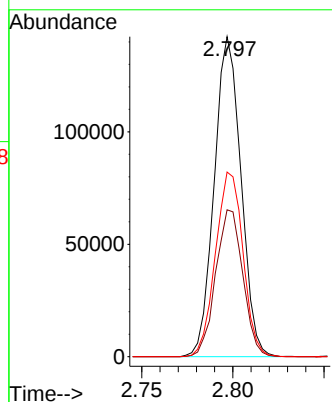
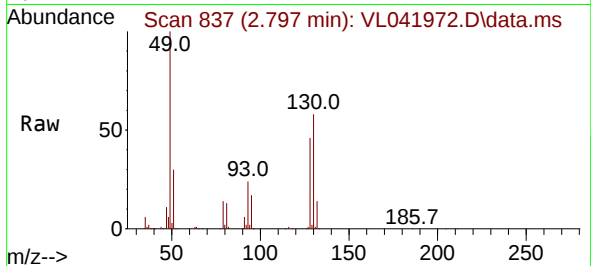




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL041972.D
Acq: 03 Feb 2025 21:32

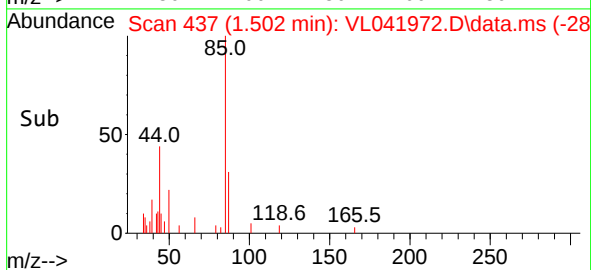
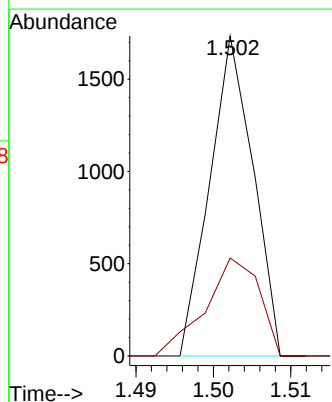
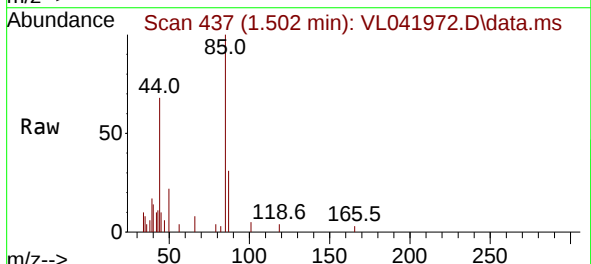
Instrument :
MSVOA_L
ClientSampleId :

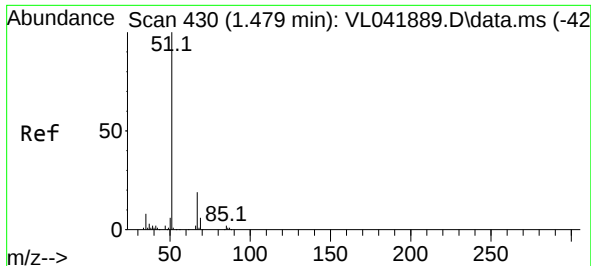
Tgt Ion: 49 Resp: 145137
Ion Ratio Lower Upper
49 100
128 46.5 24.3 73.0
130 59.4 31.1 93.2



#2
Dichlorodifluoromethane
Concen: 0.034 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.000 min
Lab File: VL041972.D
Acq: 03 Feb 2025 21:32

Tgt Ion: 85 Resp: 673
Ion Ratio Lower Upper
85 100
87 30.6 24.9 37.3

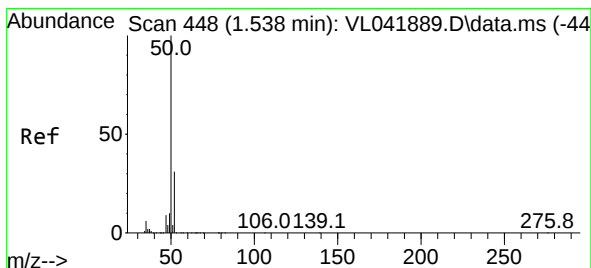
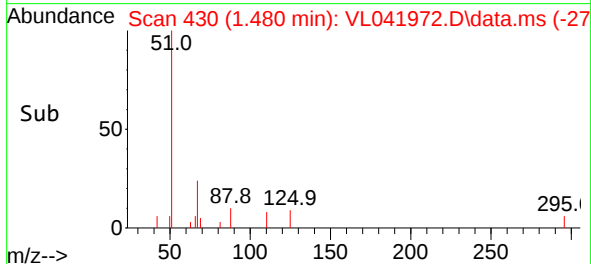
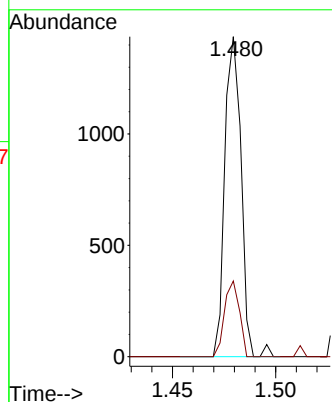
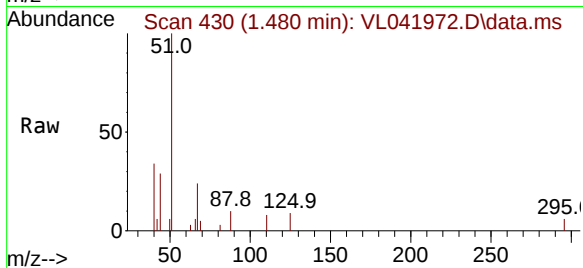




#3
Chlorodifluoromethane
Concen: 0.038 ppbv
RT: 1.480 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL041972.D
Acq: 03 Feb 2025 21:32

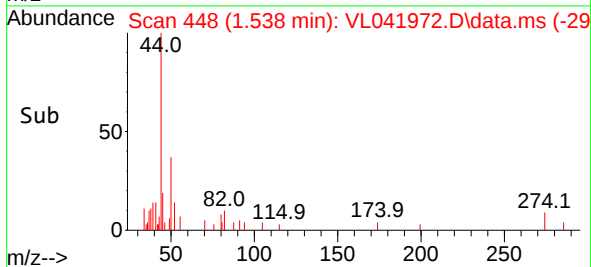
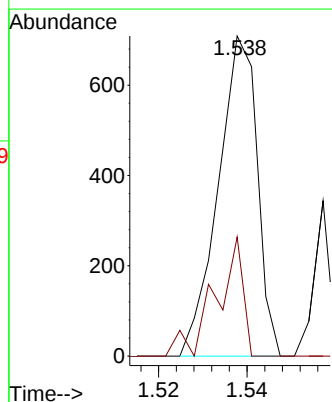
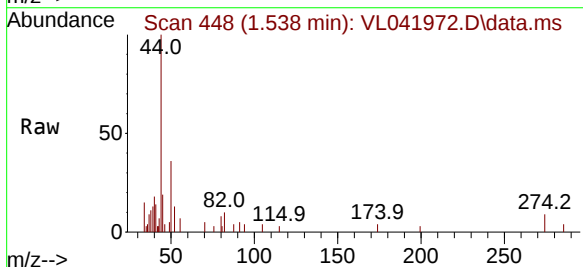
Instrument :
MSVOA_L
ClientSampleId :

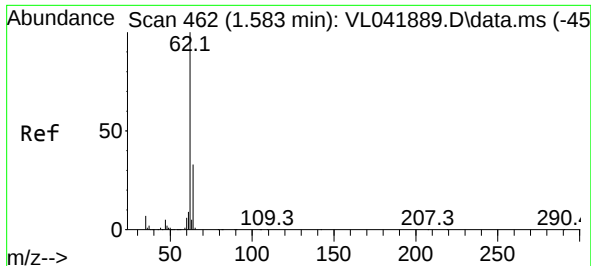
Tgt Ion: 51 Resp: 788
Ion Ratio Lower Upper
51 100
67 21.7 15.0 22.4



#4
Chloromethane
Concen: 0.059 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.000 min
Lab File: VL041972.D
Acq: 03 Feb 2025 21:32

Tgt Ion: 50 Resp: 435
Ion Ratio Lower Upper
50 100
52 37.2 24.6 36.8#

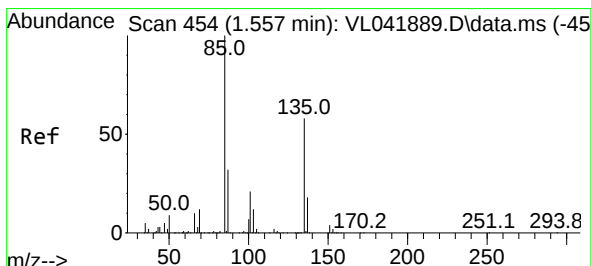
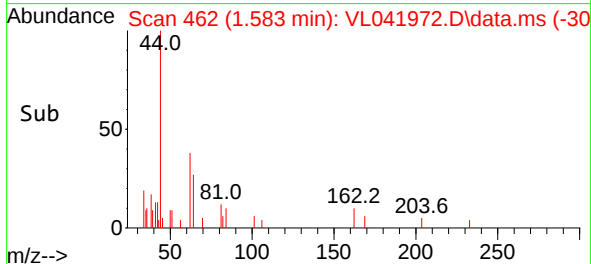
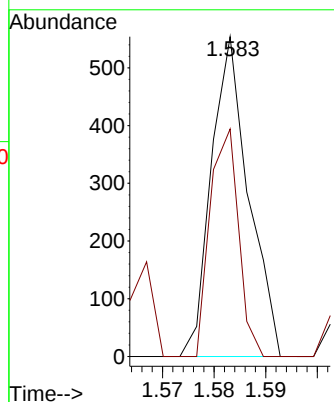
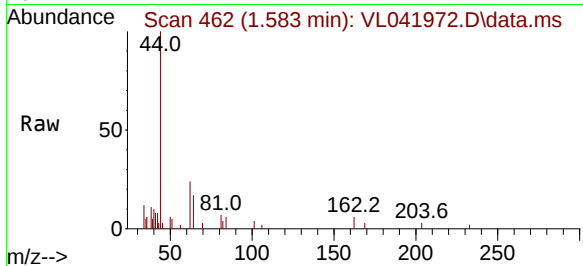




#5
 Vinyl Chloride
 Concen: 0.037 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL041972.D
 Acq: 03 Feb 2025 21:32

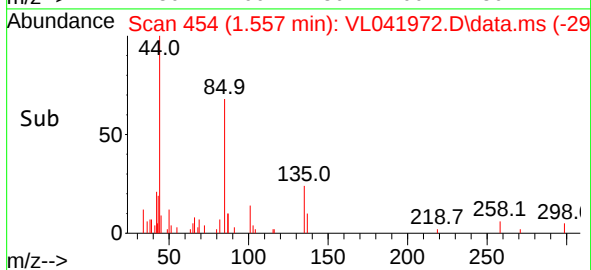
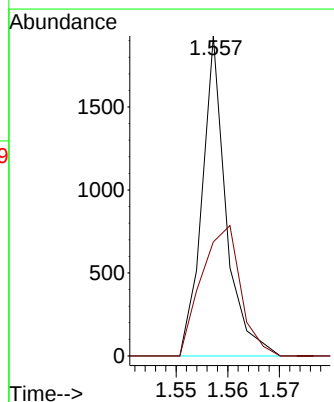
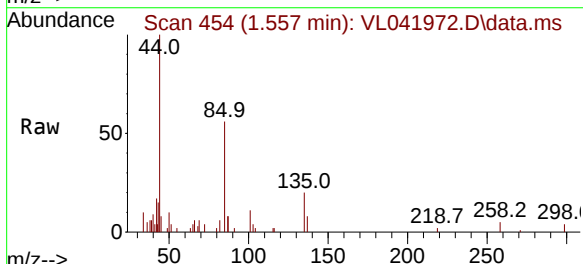
Instrument :
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 ClientSampleId :

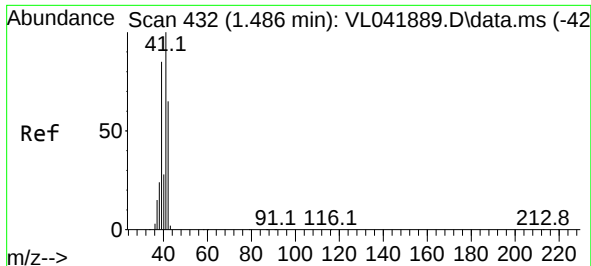
Tgt Ion: 62 Resp: 278
 Ion Ratio Lower Upper
 62 100
 64 71.1 26.1 39.1#



#8
 Dichlorotetrafluoroethane
 Concen: 0.036 ppbv
 RT: 1.557 min Scan# 454
 Delta R.T. 0.000 min
 Lab File: VL041972.D
 Acq: 03 Feb 2025 21:32

Tgt Ion: 85 Resp: 621
 Ion Ratio Lower Upper
 85 100
 135 66.5 50.0 75.0





#9

Propene

Concen: 0.072 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL041972.D

Acq: 03 Feb 2025 21:32

Instrument :

MSVOA_L

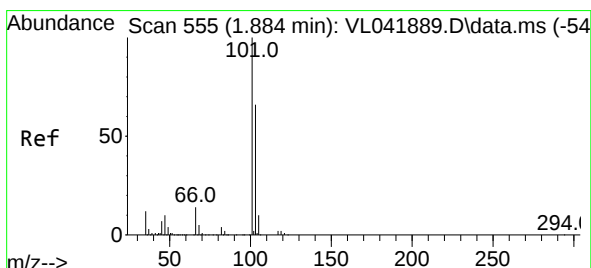
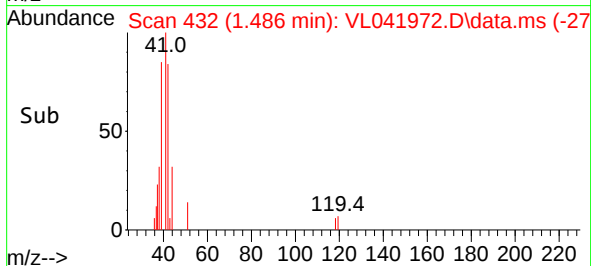
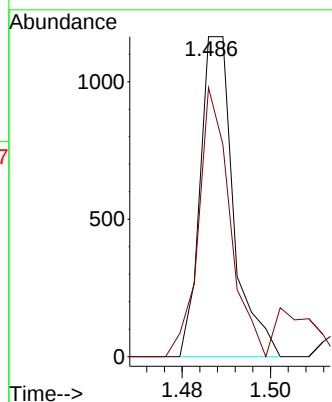
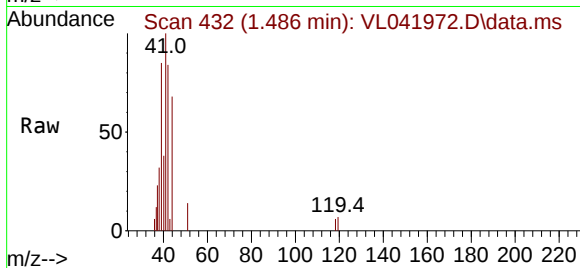
ClientSampleId :

Tgt Ion: 41 Resp: 613

Ion Ratio Lower Upper

41 100

42 95.3 52.0 78.0#



#11

Trichlorofluoromethane

Concen: 0.035 ppbv

RT: 1.881 min Scan# 554

Delta R.T. -0.003 min

Lab File: VL041972.D

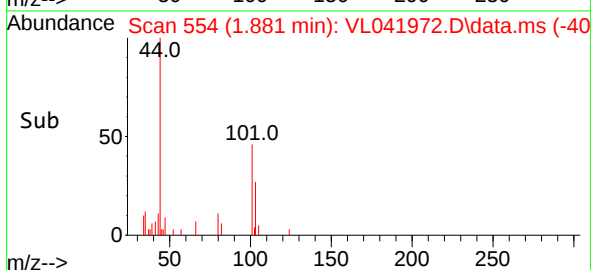
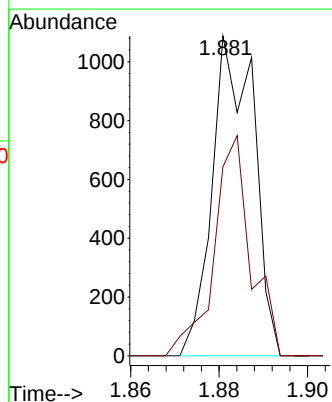
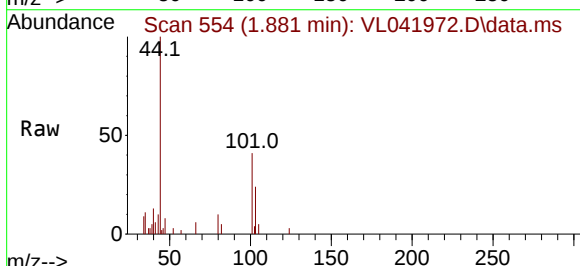
Acq: 03 Feb 2025 21:32

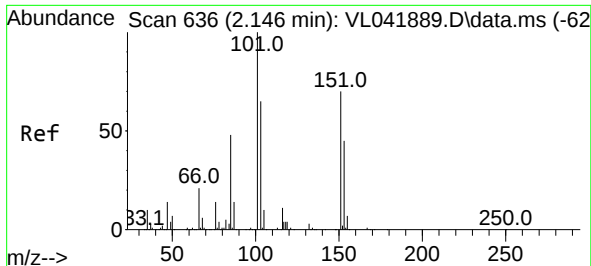
Tgt Ion:101 Resp: 713

Ion Ratio Lower Upper

101 100

103 59.1 53.1 79.7

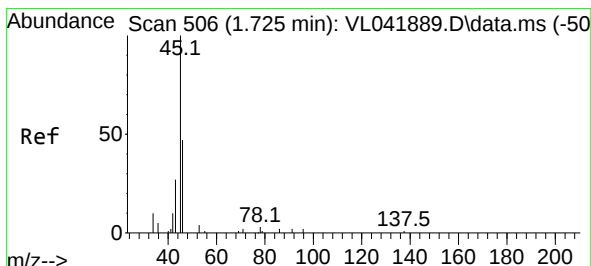
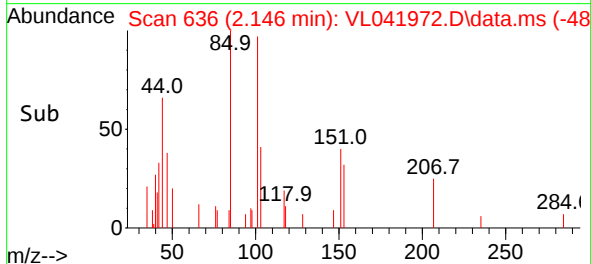
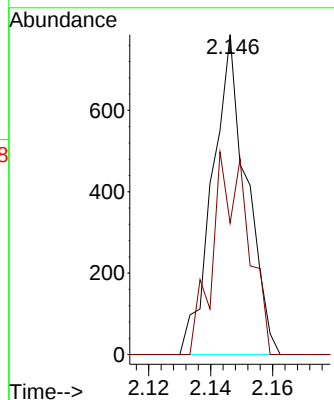
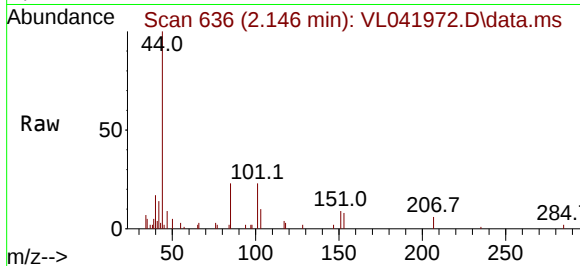




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.037 ppbv
 RT: 2.146 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL041972.D
 Acq: 03 Feb 2025 21:32

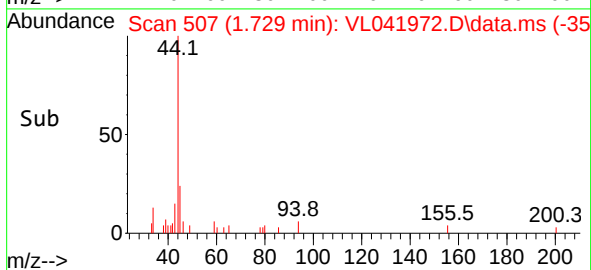
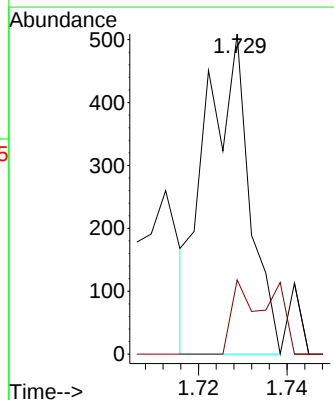
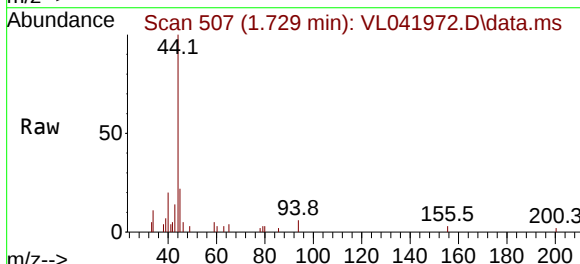
Instrument :
 MSVOA_L
 ClientSampleId :

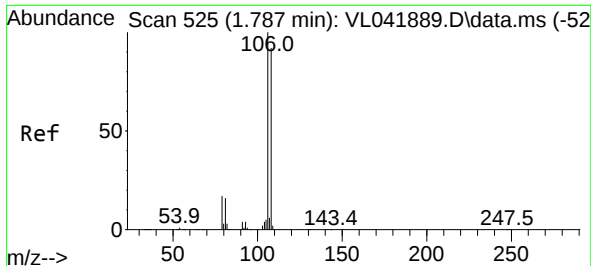
Tgt Ion:101 Resp: 602
 Ion Ratio Lower Upper
 101 100
 151 65.3 56.1 84.1



#13
 Ethanol
 Concen: 0.558 ppbv
 RT: 1.729 min Scan# 507
 Delta R.T. 0.003 min
 Lab File: VL041972.D
 Acq: 03 Feb 2025 21:32

Tgt Ion: 45 Resp: 349
 Ion Ratio Lower Upper
 45 100
 46 0.0 18.1 72.5#





#14

Bromoethene

Concen: 0.039 ppbv

RT: 1.787 min Scan# 51

Delta R.T. 0.000 min

Lab File: VL041972.D

Acq: 03 Feb 2025 21:32

Instrument :

MSVOA_L

ClientSampleId :

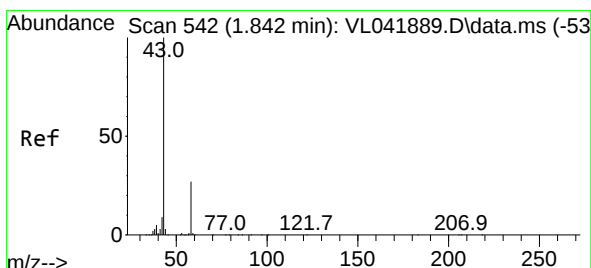
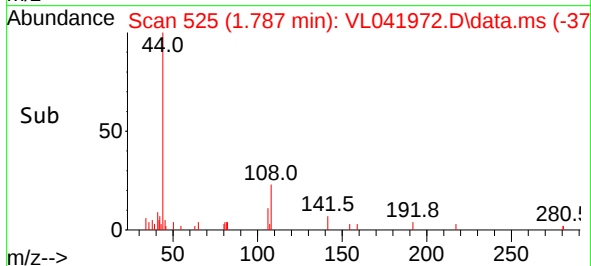
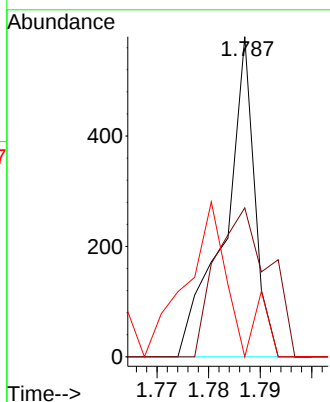
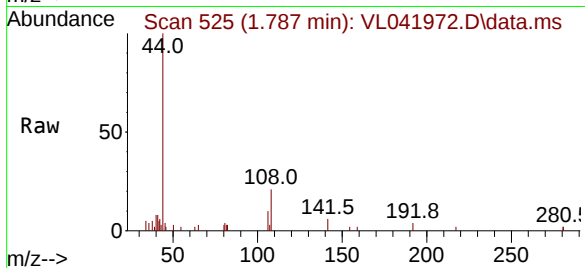
Tgt Ion:108 Resp: 233

Ion Ratio Lower Upper

108 100

106 82.4 85.5 128.3#

79 66.1 15.3 22.9#



#15

Acetone

Concen: 0.159 ppbv

RT: 1.842 min Scan# 542

Delta R.T. 0.000 min

Lab File: VL041972.D

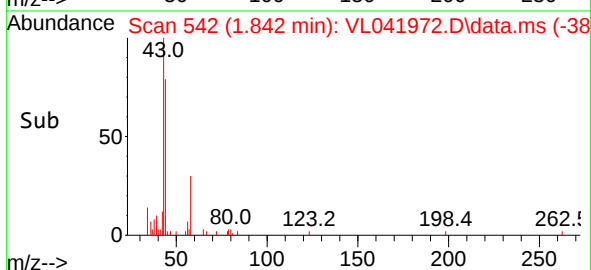
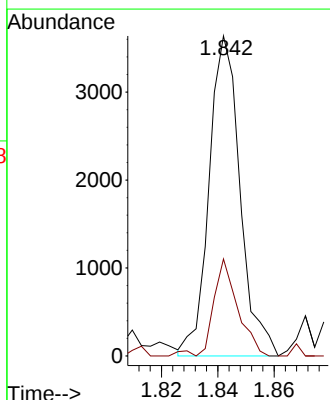
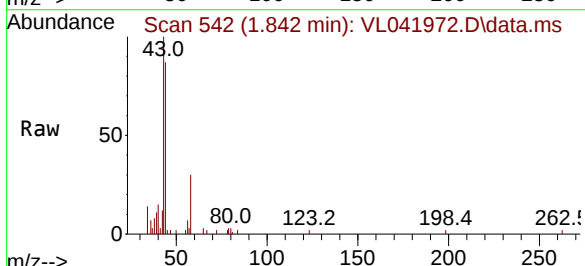
Acq: 03 Feb 2025 21:32

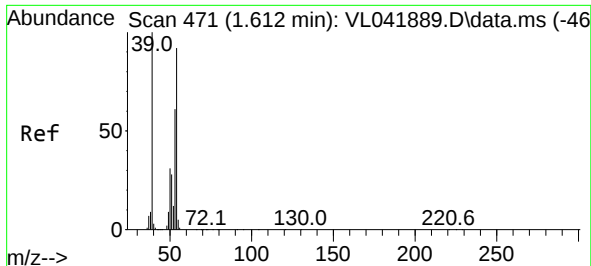
Tgt Ion: 43 Resp: 2779

Ion Ratio Lower Upper

43 100

58 25.0 21.9 32.9

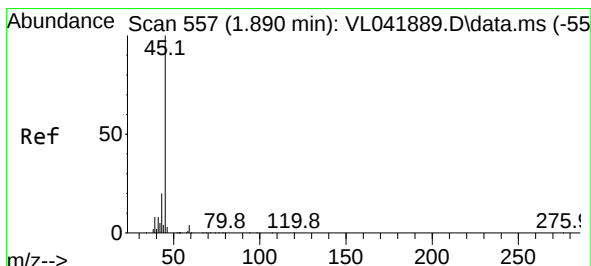
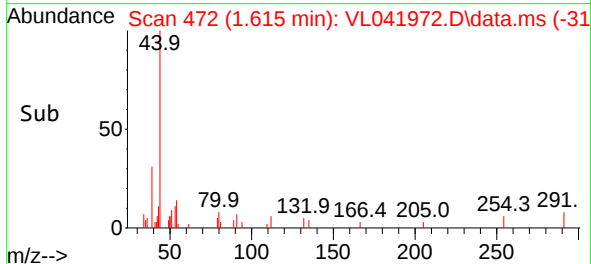
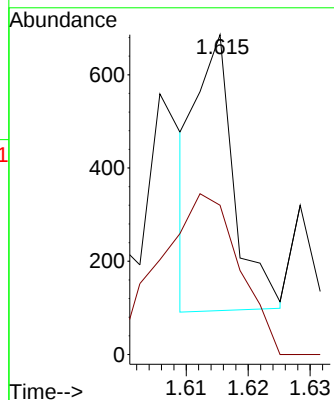
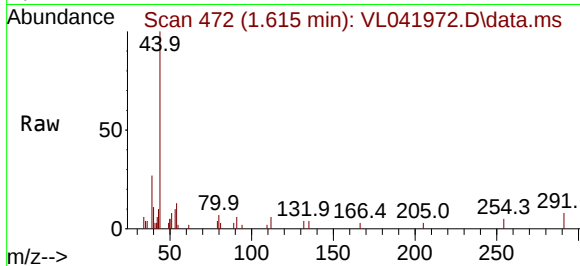




#16
1,3-Butadiene
Concen: 0.032 ppbv
RT: 1.615 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL041972.D
Acq: 03 Feb 2025 21:32

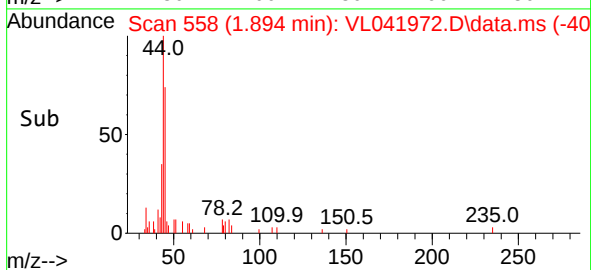
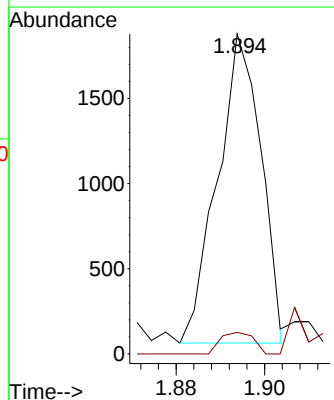
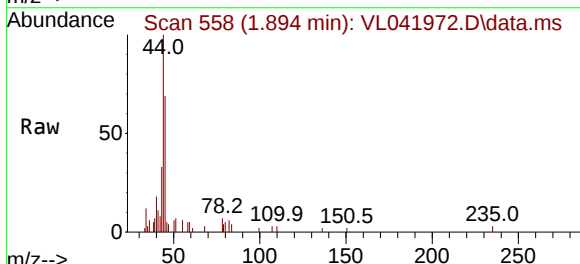
Instrument :
MSVOA_L
ClientSampleId :

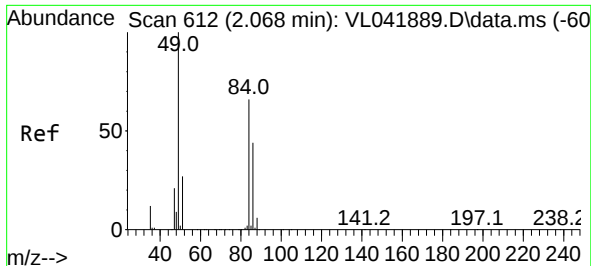
Tgt Ion: 39 Resp: 251
Ion Ratio Lower Upper
39 100
54 130.3 61.6 92.4#



#19
Isopropyl Alcohol
Concen: 0.120 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.003 min
Lab File: VL041972.D
Acq: 03 Feb 2025 21:32

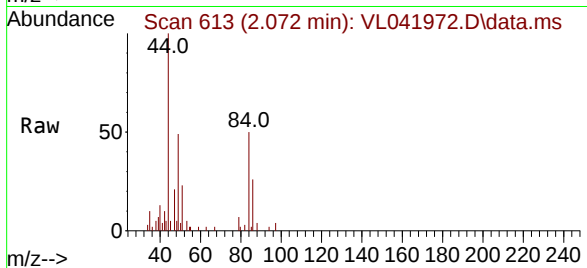
Tgt Ion: 45 Resp: 1239
Ion Ratio Lower Upper
45 100
58 15.4 35.0 52.6#





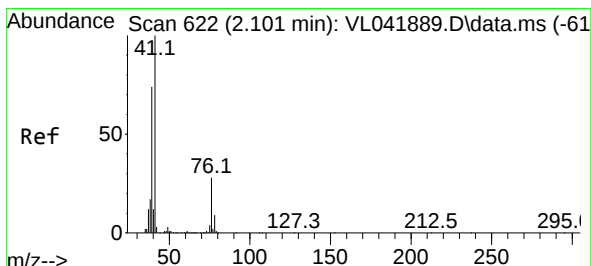
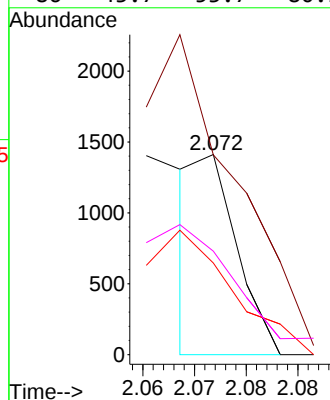
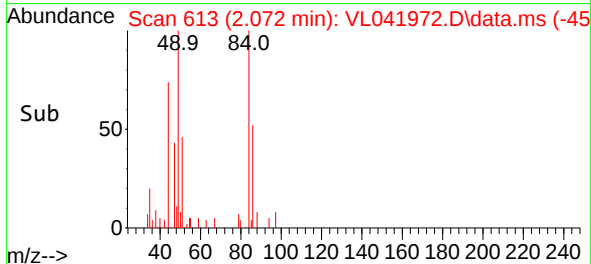
#20
Methylene Chloride
Concen: 0.054 ppbv
RT: 2.072 min Scan# 612
Delta R.T. 0.003 min
Lab File: VL041972.D
Acq: 03 Feb 2025 21:32

Instrument :
MSVOA_L
ClientSampleId :

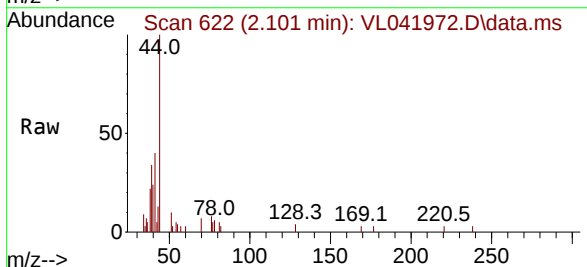


Tgt Ion: 84 Resp: 370

Ion	Ratio	Lower	Upper
84	100		
49	53.3	123.1	184.7#
51	30.5	35.8	53.8#
86	43.7	53.7	80.5#

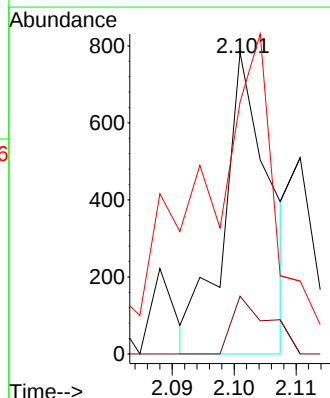
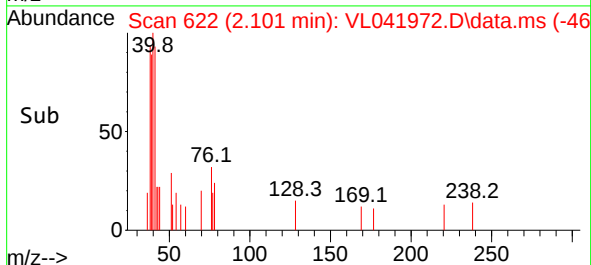


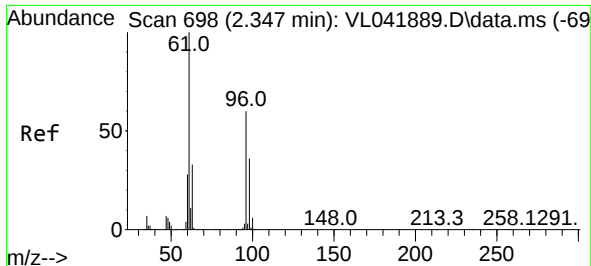
#21
Allyl Chloride
Concen: 0.033 ppbv
RT: 2.101 min Scan# 622
Delta R.T. 0.000 min
Lab File: VL041972.D
Acq: 03 Feb 2025 21:32



Tgt Ion: 41 Resp: 399

Ion	Ratio	Lower	Upper
41	100		
76	15.8	24.2	36.4#
39	169.2	60.6	91.0#

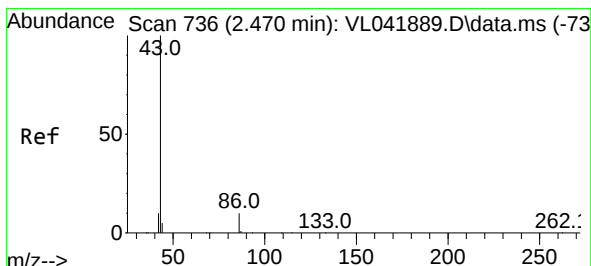
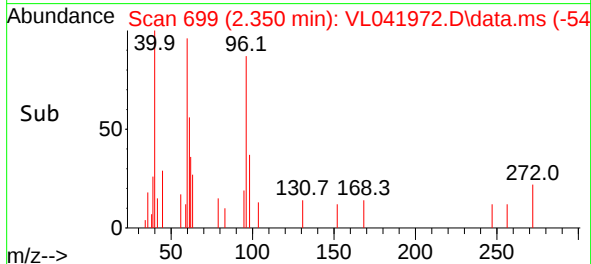
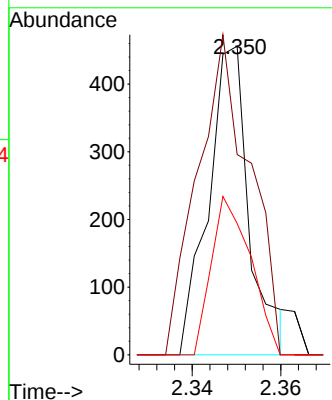
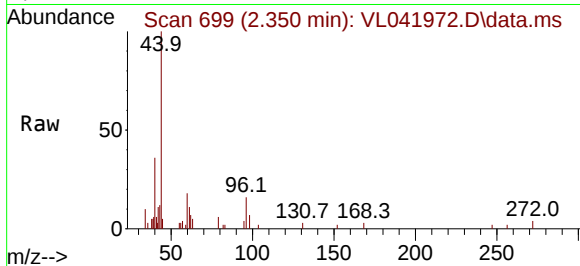




#22
trans-1,2-Dichloroethene
Concen: 0.036 ppbv
RT: 2.350 min Scan# 698
Delta R.T. 0.003 min
Lab File: VL041972.D
Acq: 03 Feb 2025 21:32

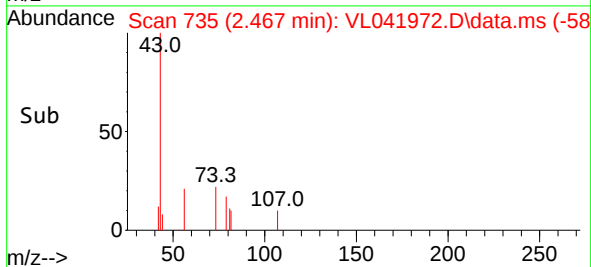
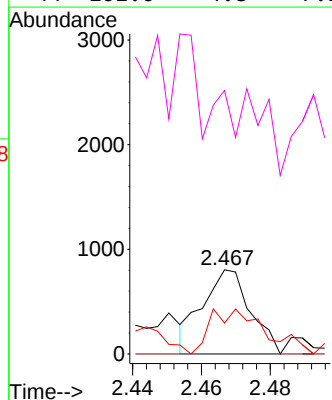
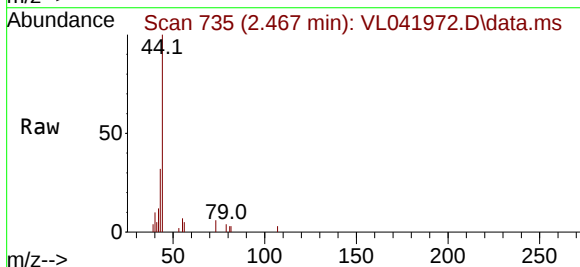
Instrument :
MSVOA_L
ClientSampleId :

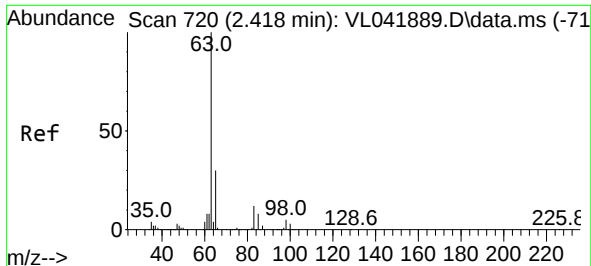
Tgt Ion: 96 Resp: 293
Ion Ratio Lower Upper
96 100
61 64.9 134.5 201.7#
98 42.5 48.9 73.3#



#23
Vinyl Acetate
Concen: 0.090 ppbv
RT: 2.467 min Scan# 735
Delta R.T. -0.003 min
Lab File: VL041972.D
Acq: 03 Feb 2025 21:32

Tgt Ion: 43 Resp: 779
Ion Ratio Lower Upper
43 100
86 0.0 6.2 9.4#
42 26.1 8.5 12.7#
44 101.0 4.8 7.2#

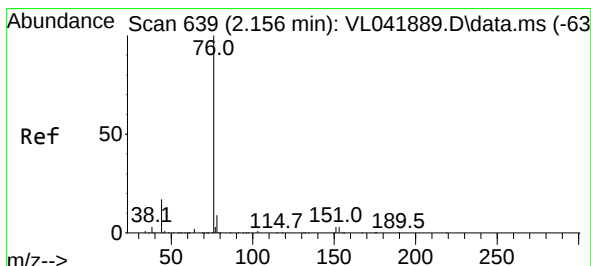
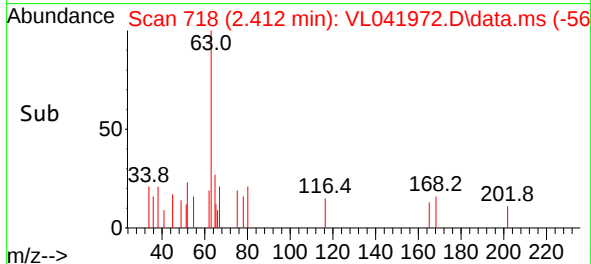
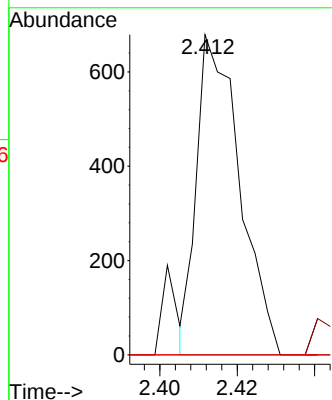
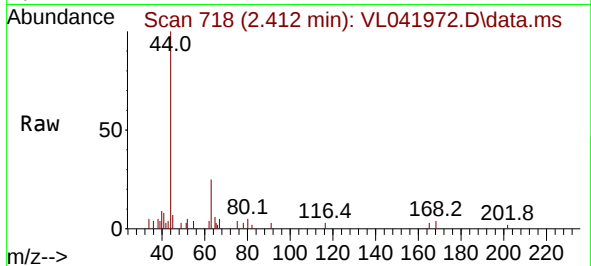




#24
1,1-Dichloroethane
Concen: 0.033 ppbv
RT: 2.412 min Scan# 71
Delta R.T. -0.006 min
Lab File: VL041972.D
Acq: 03 Feb 2025 21:32

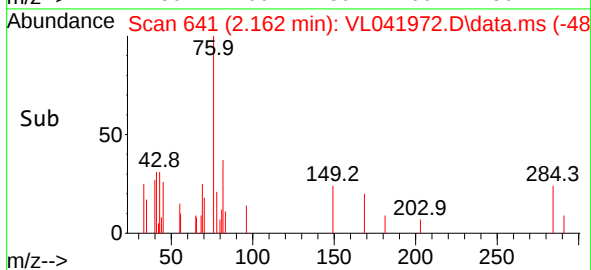
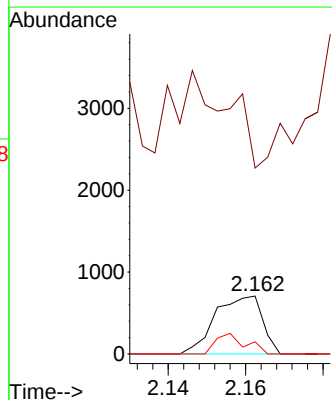
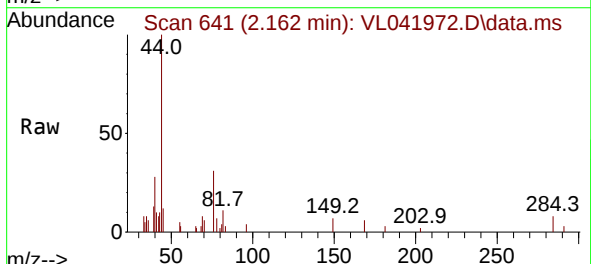
Instrument :
MSVOA_L
ClientSampleId :

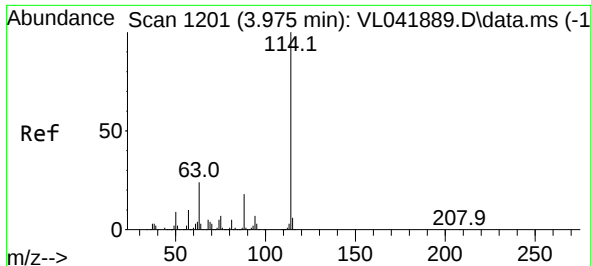
Tgt Ion:	63	Resp:	523
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.6	7.8#
100	0.0	1.4	4.2#



#27
Carbon Disulfide
Concen: 0.033 ppbv
RT: 2.162 min Scan# 641
Delta R.T. 0.007 min
Lab File: VL041972.D
Acq: 03 Feb 2025 21:32

Tgt Ion:	76	Resp:	599
Ion	Ratio	Lower	Upper
76	100		
44	1021.9	15.4	23.0#
78	22.0	9.3	13.9#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL041972.D

Acq: 03 Feb 2025 21:32

Instrument :

MSVOA_L

ClientSampleId :

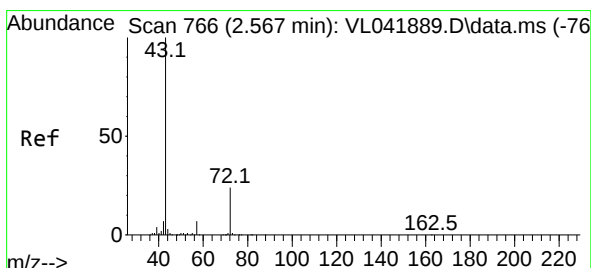
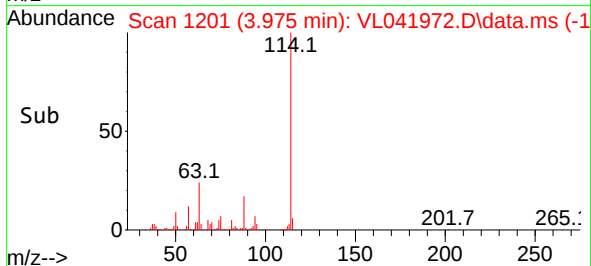
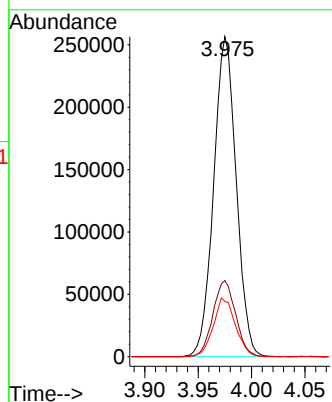
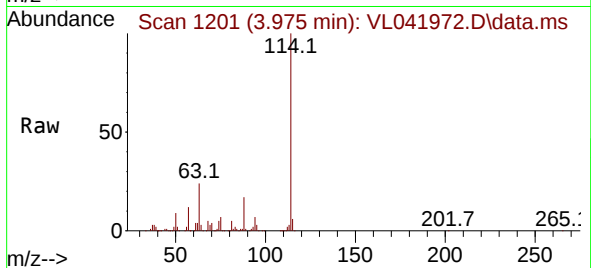
Tgt Ion:114 Resp: 376767

Ion Ratio Lower Upper

114 100

63 24.0 19.8 29.6

88 18.0 14.4 21.6



#34

2-Butanone

Concen: 0.050 ppbv

RT: 2.577 min Scan# 769

Delta R.T. 0.010 min

Lab File: VL041972.D

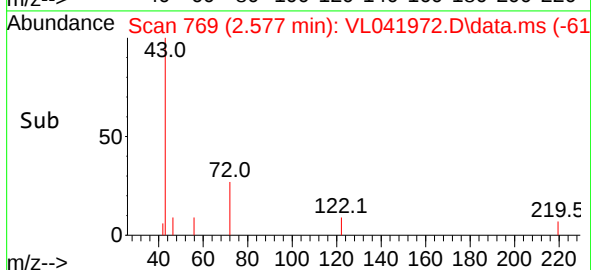
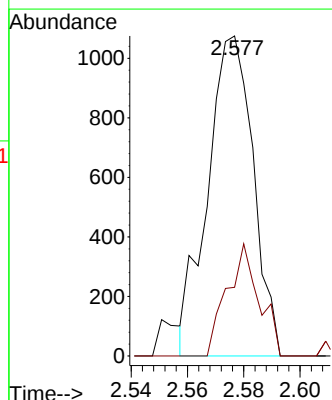
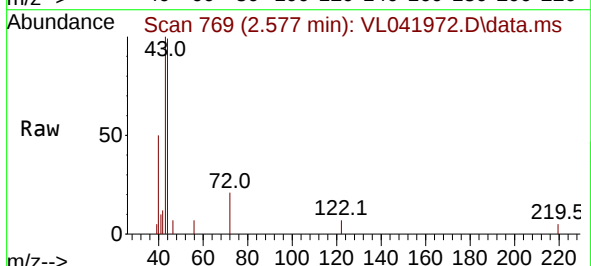
Acq: 03 Feb 2025 21:32

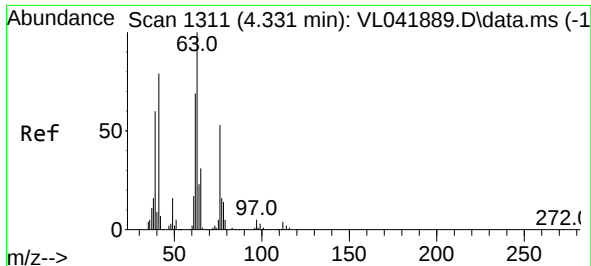
Tgt Ion: 43 Resp: 1209

Ion Ratio Lower Upper

43 100

72 25.5 18.6 28.0





#39

1,2-Dichloropropane

Concen: 7.455 ppbv

RT: 3.975 min Scan# 11

Delta R.T. -0.356 min

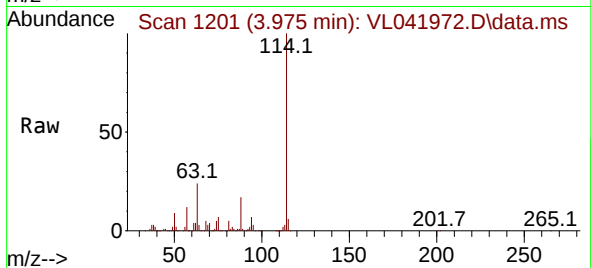
Lab File: VL041972.D

Acq: 03 Feb 2025 21:32

Instrument :

MSVOA_L

ClientSampleId :



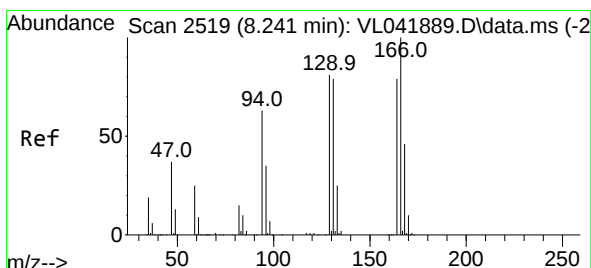
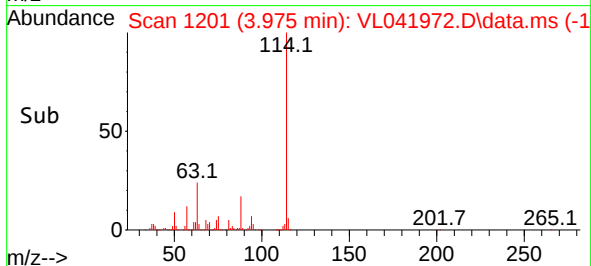
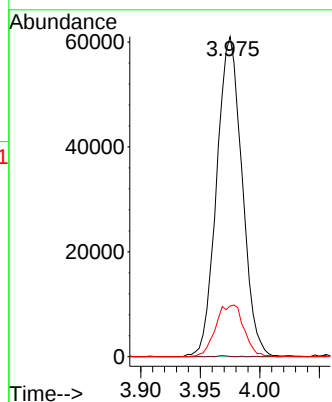
Tgt Ion: 63 Resp: 90361

Ion Ratio Lower Upper

63 100

41 0.1 63.7 95.5#

62 15.8 55.4 83.2#



#52

Tetrachloroethene

Concen: 0.031 ppbv

RT: 8.247 min Scan# 2521

Delta R.T. 0.007 min

Lab File: VL041972.D

Acq: 03 Feb 2025 21:32

Tgt Ion: 164 Resp: 370

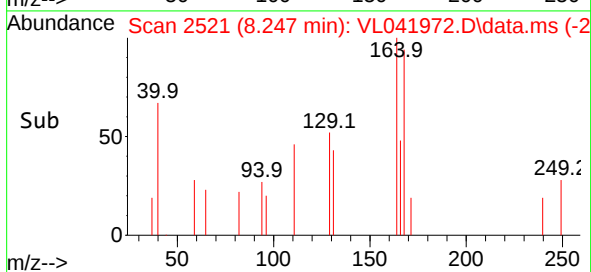
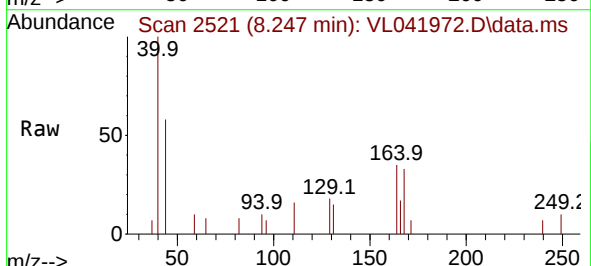
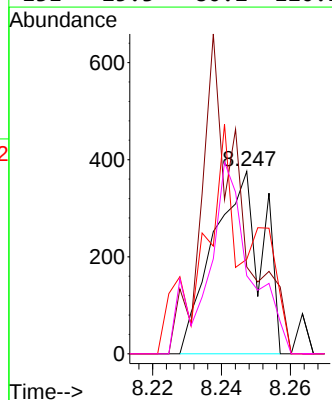
Ion Ratio Lower Upper

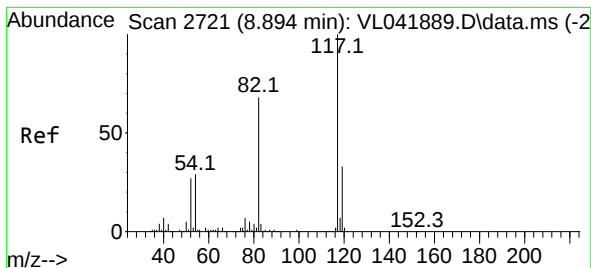
164 100

166 12.0 100.8 151.2#

129 19.1 82.0 123.0#

131 25.3 80.2 120.2#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.898 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL041972.D

Acq: 03 Feb 2025 21:32

Instrument :

MSVOA_L

ClientSampleId :

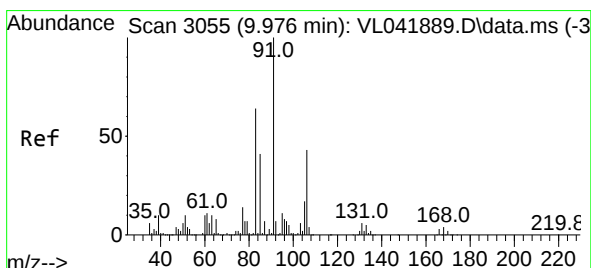
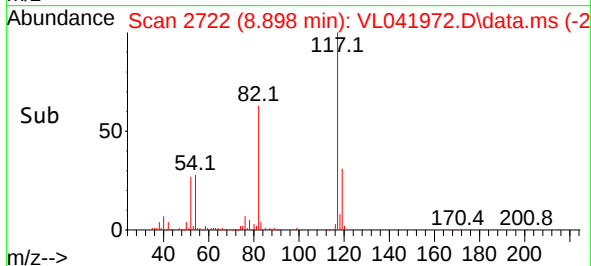
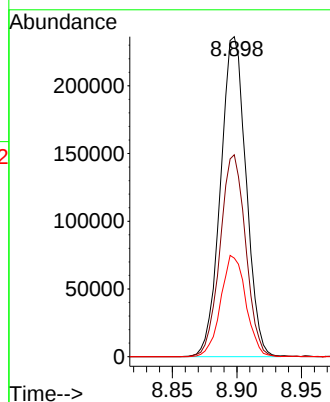
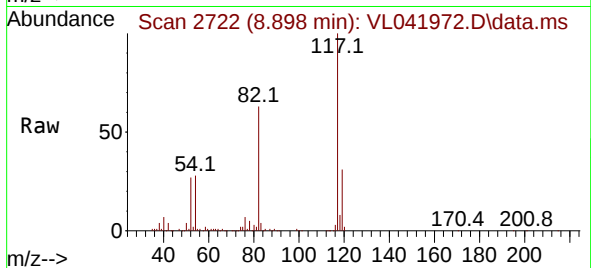
Tgt Ion:117 Resp: 324530

Ion Ratio Lower Upper

117 100

82 63.2 54.2 81.4

119 31.4 25.0 37.6



#63

1,1,2,2-Tetrachloroethane

Concen: 0.031 ppbv

RT: 9.976 min Scan# 3055

Delta R.T. 0.000 min

Lab File: VL041972.D

Acq: 03 Feb 2025 21:32

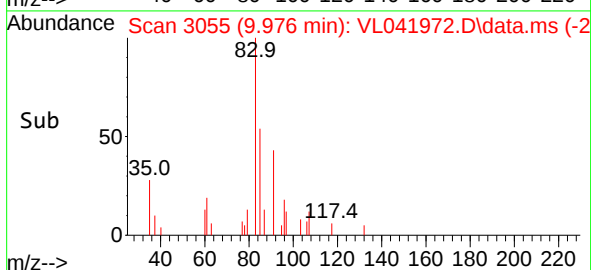
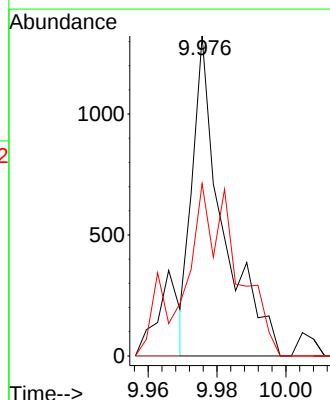
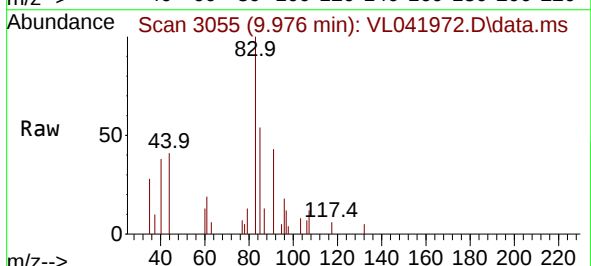
Tgt Ion: 83 Resp: 809

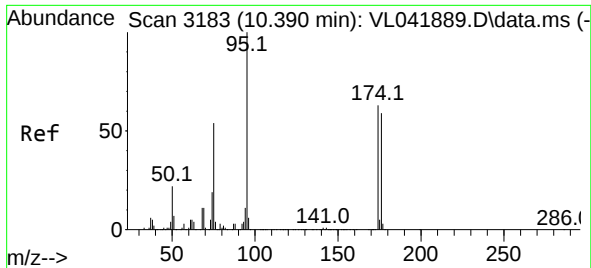
Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.4#

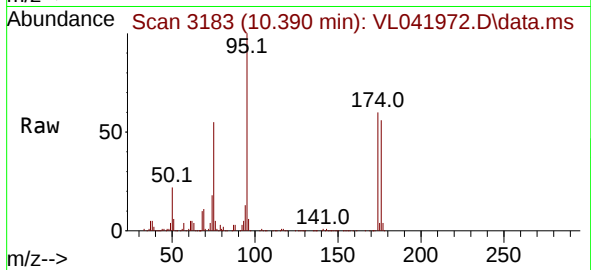
85 93.7 32.4 97.2





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.239 ppbv
 RT: 10.390 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: VL041972.D
 Acq: 03 Feb 2025 21:32

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 95 Resp: 236152
 Ion Ratio Lower Upper
 95 100
 174 60.2 49.0 73.4
 175 4.5 3.8 5.8

