

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
 Data File : VL041937.D
 Acq On : 21 Jan 2025 01:01
 Operator : SY/MD
 Sample : MDL 0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 21 05:10:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

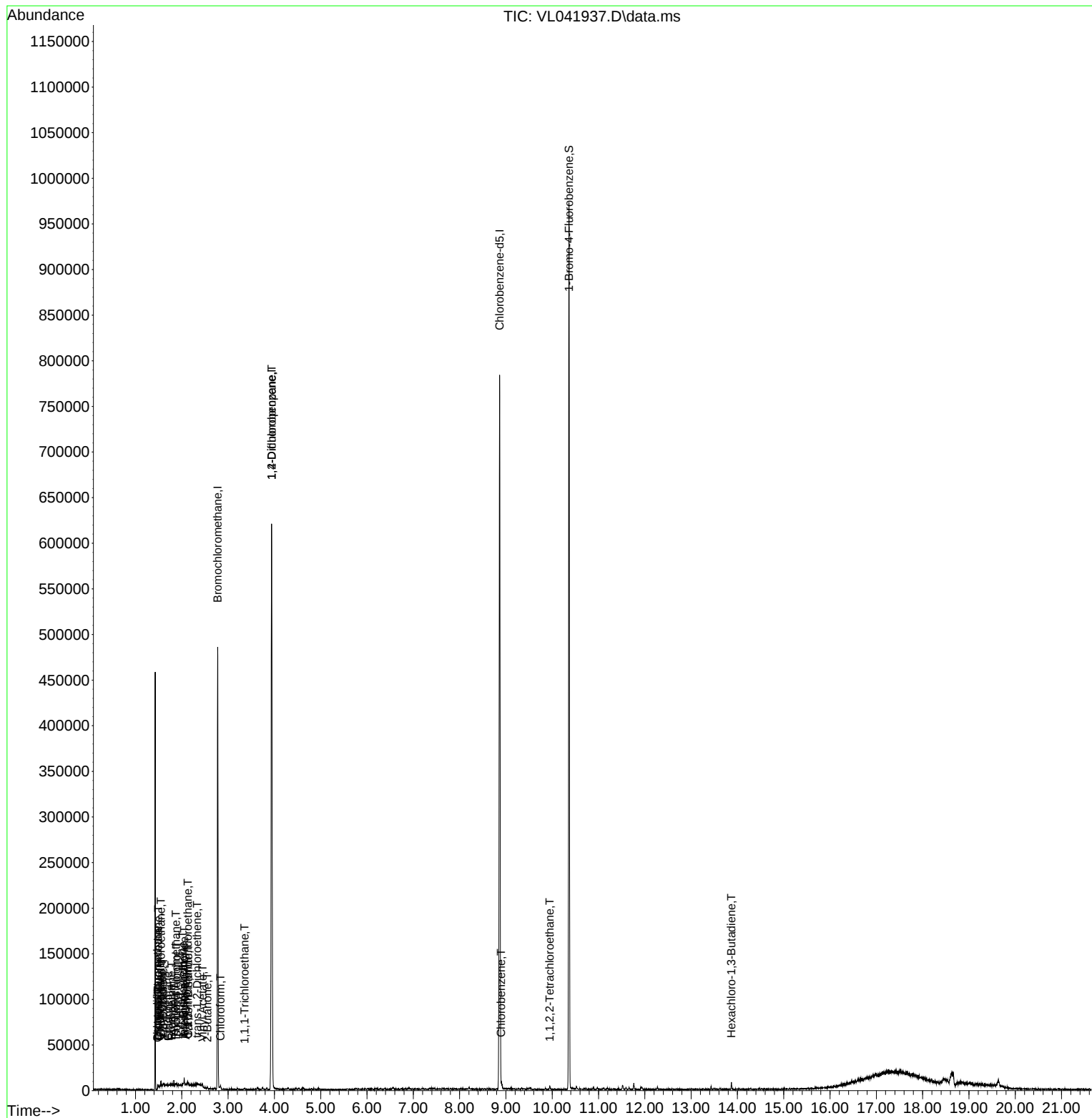
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.774	49	129628	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.939	114	355763	10.000	ppbv	-0.04
55) Chlorobenzene-d5	8.862	117	307216	10.000	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.361	95	235931	9.750	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.492	85	693	0.039	ppbv	99
3) Chlorodifluoromethane	1.473	51	669	0.036	ppbv #	67
4) Chloromethane	1.528	50	335	0.050	ppbv #	88
5) Vinyl Chloride	1.573	62	363	0.054	ppbv #	42
7) Chloroethane	1.696	64	225	0.086	ppbv #	84
8) Dichlorotetrafluoroethane	1.547	85	558	0.036	ppbv	90
9) Propene	1.479	41	687	0.090	ppbv #	67
11) Trichlorofluoromethane	1.874	101	634	0.035	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.130	101	482	0.033	ppbv #	48
13) Ethanol	1.716	45	155	0.278	ppbv	76
14) Bromoethene	1.780	108	243	0.046	ppbv #	72
15) Acetone	1.829	43	1904	0.122	ppbv #	84
16) 1,3-Butadiene	1.599	39	464	0.066	ppbv #	61
17) tert-Butyl alcohol	2.039	59	647	0.034	ppbv #	49
18) 1,1-Dichloroethene	2.023	96	248	0.038	ppbv #	84
19) Isopropyl Alcohol	1.881	45	877	0.095	ppbv #	32
20) Methylene Chloride	2.056	84	1098	0.178	ppbv #	63
21) Allyl Chloride	2.081	41	360	0.033	ppbv #	1
22) trans-1,2-Dichloroethene	2.331	96	254	0.035	ppbv #	71
23) Vinyl Acetate	2.450	43	361	0.047	ppbv #	50
27) Carbon Disulfide	2.140	76	612	0.037	ppbv #	39
29) Chloroform	2.836	83	975	0.037	ppbv	98
32) 1,1,1-Trichloroethane	3.353	97	828	0.033	ppbv	90
34) 2-Butanone	2.551	43	1238	0.055	ppbv #	73
39) 1,2-Dichloropropane	3.939	63	88409	7.724	ppbv #	22
57) Chlorobenzene	8.898	112	1193	0.042	ppbv #	64
63) 1,1,2,2-Tetrachloroethane	9.946	83	864	0.035	ppbv	97
78) Hexachloro-1,3-Butadiene	13.869	225	648	0.031	ppbv	94

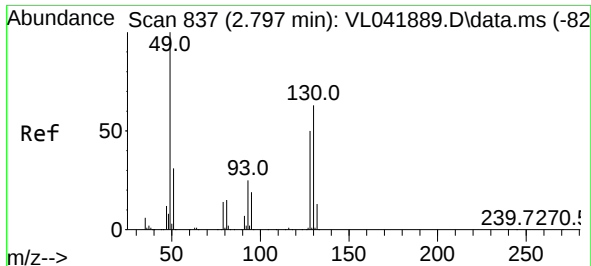
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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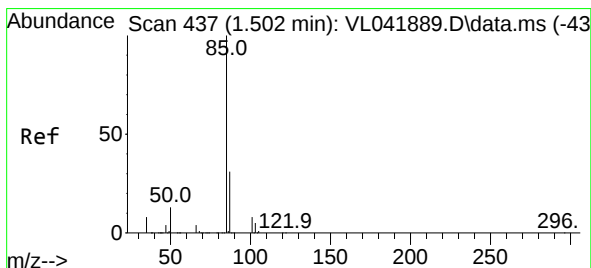
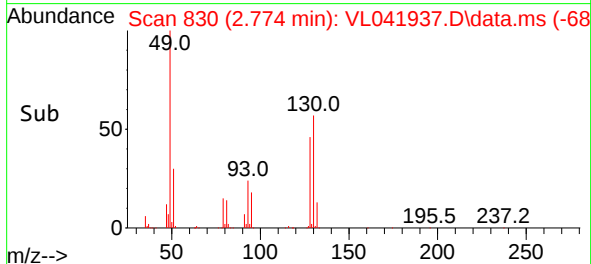
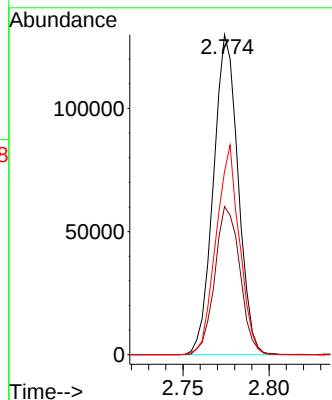
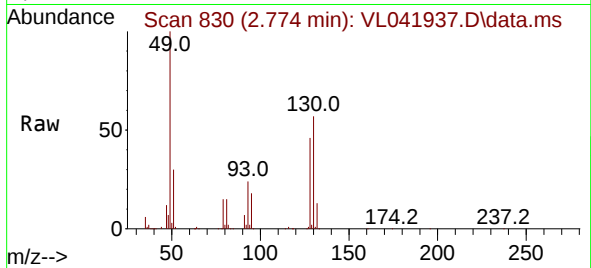




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.774 min Scan# 81
Delta R.T. -0.023 min
Lab File: VL041937.D
Acq: 21 Jan 2025 01:01

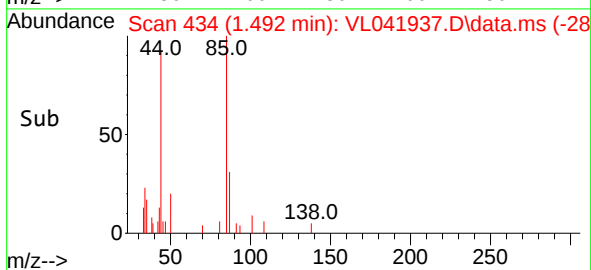
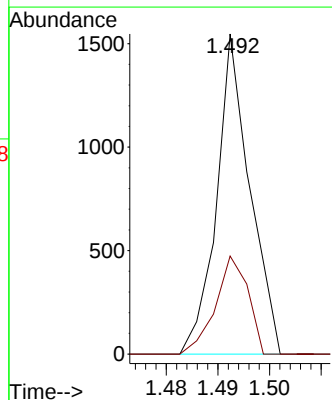
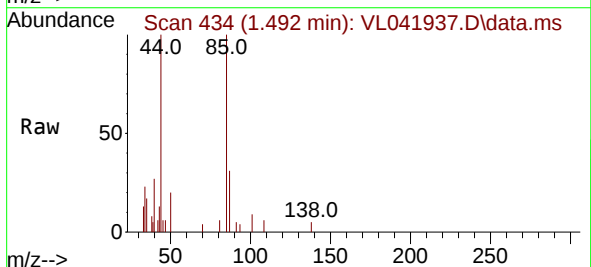
Instrument :
MSVOA_L
ClientSampleId :

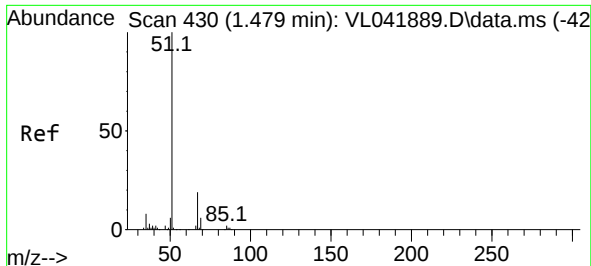
Tgt Ion: 49 Resp: 129628
Ion Ratio Lower Upper
49 100
128 47.3 24.3 73.0
130 62.4 31.1 93.2



#2
Dichlorodifluoromethane
Concen: 0.039 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.010 min
Lab File: VL041937.D
Acq: 21 Jan 2025 01:01

Tgt Ion: 85 Resp: 693
Ion Ratio Lower Upper
85 100
87 30.6 24.9 37.3

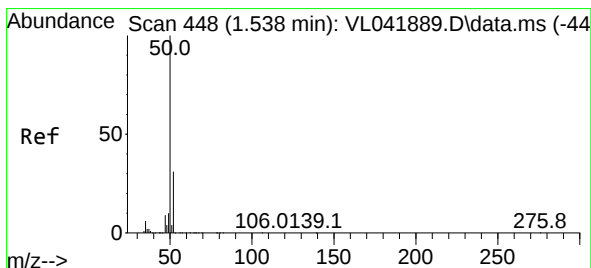
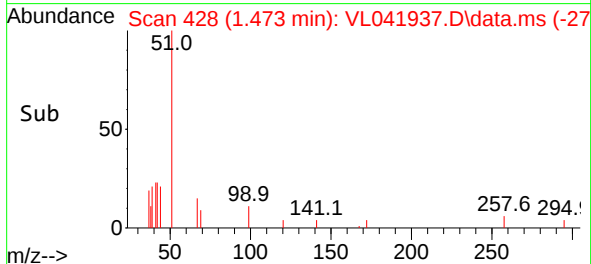
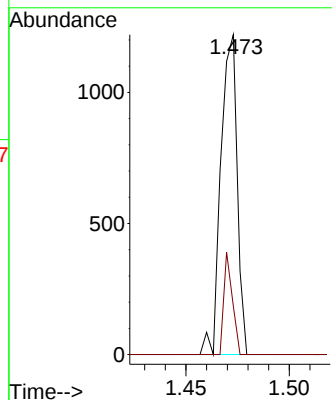
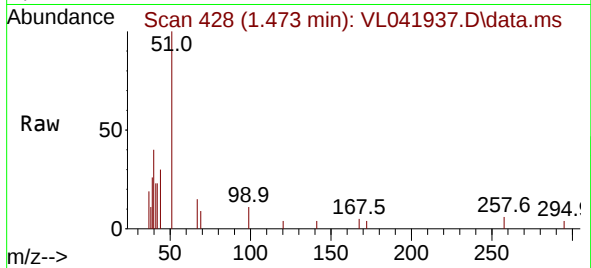




#3
Chlorodifluoromethane
Concen: 0.036 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL041937.D
Acq: 21 Jan 2025 01:01

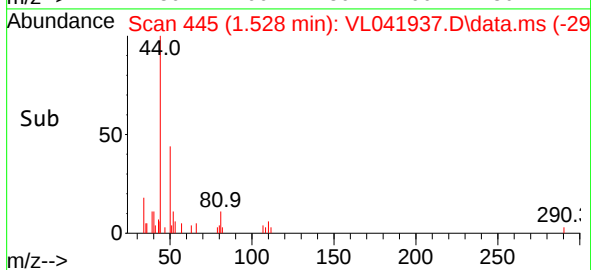
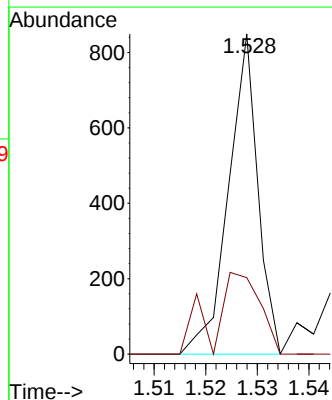
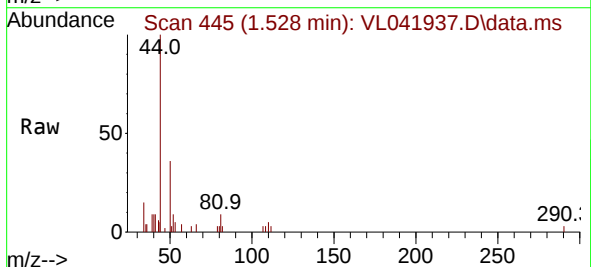
Instrument :
MSVOA_L
ClientSampleId :

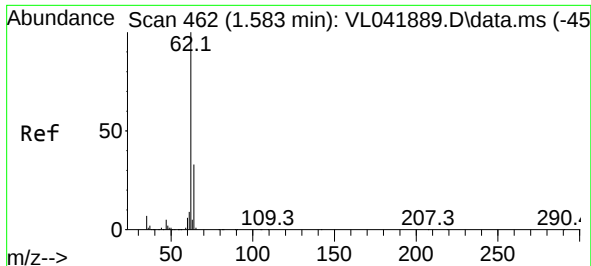
Tgt Ion: 51 Resp: 669
Ion Ratio Lower Upper
51 100
67 3.9 15.0 22.4#



#4
Chloromethane
Concen: 0.050 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.010 min
Lab File: VL041937.D
Acq: 21 Jan 2025 01:01

Tgt Ion: 50 Resp: 335
Ion Ratio Lower Upper
50 100
52 23.9 24.6 36.8#

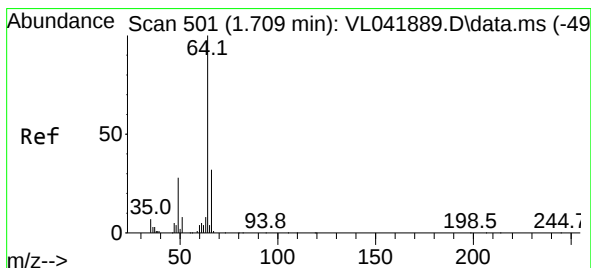
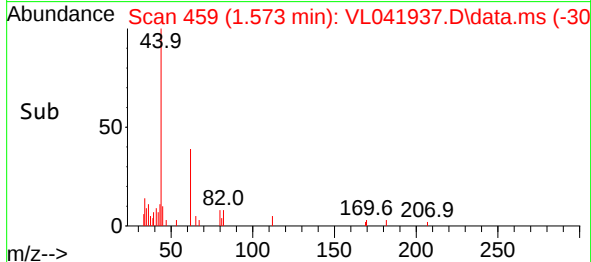
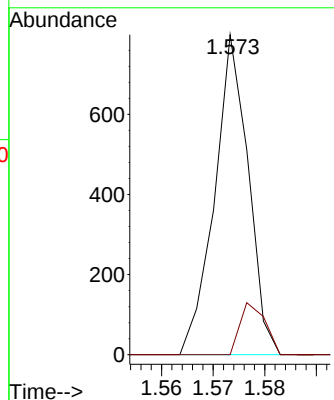
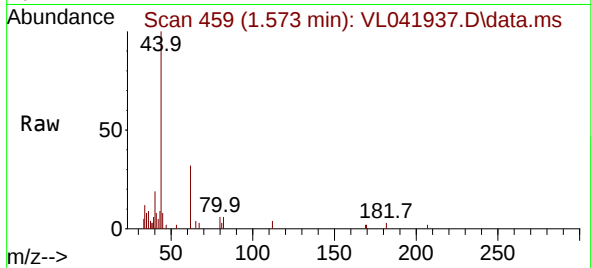




#5
 Vinyl Chloride
 Concen: 0.054 ppbv
 RT: 1.573 min Scan# 41
 Delta R.T. -0.010 min
 Lab File: VL041937.D
 Acq: 21 Jan 2025 01:01

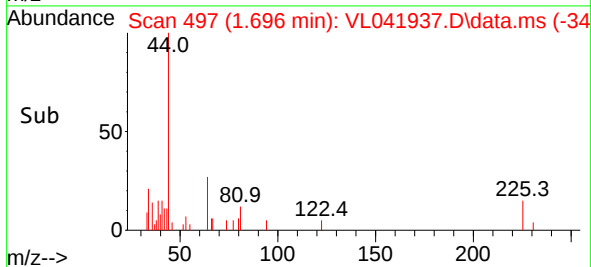
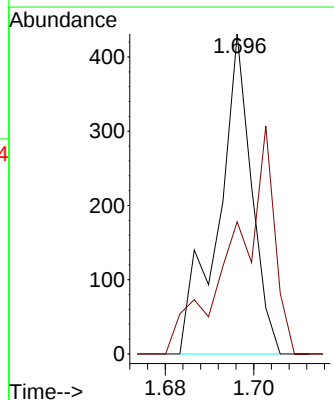
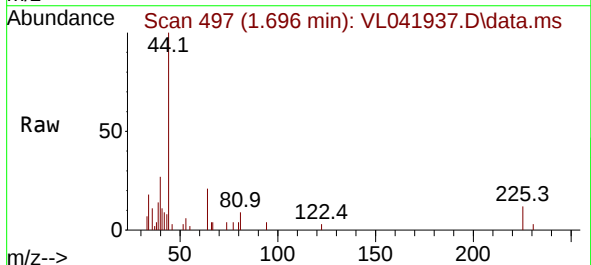
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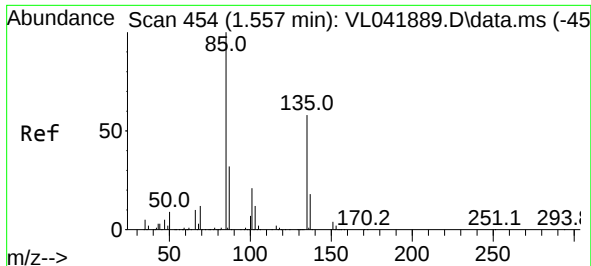
Tgt Ion: 62 Resp: 363
 Ion Ratio Lower Upper
 62 100
 64 0.0 26.1 39.1#



#7
 Chloroethane
 Concen: 0.086 ppbv
 RT: 1.696 min Scan# 497
 Delta R.T. -0.013 min
 Lab File: VL041937.D
 Acq: 21 Jan 2025 01:01

Tgt Ion: 64 Resp: 225
 Ion Ratio Lower Upper
 64 100
 66 41.3 25.7 38.5#

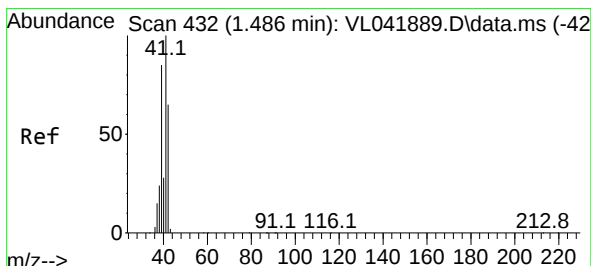
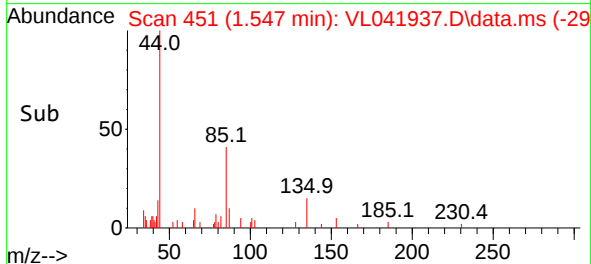
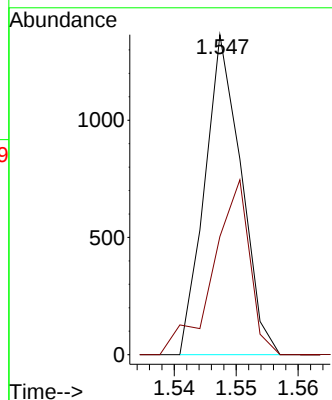
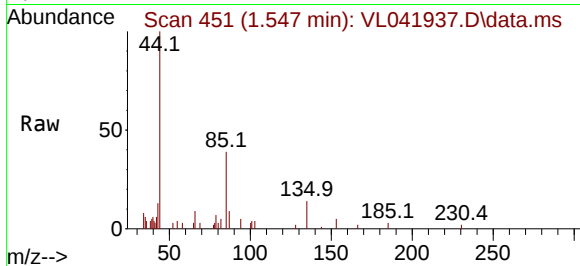




#8
Dichlorotetrafluoroethane
Concen: 0.036 ppbv
RT: 1.547 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL041937.D
Acq: 21 Jan 2025 01:01

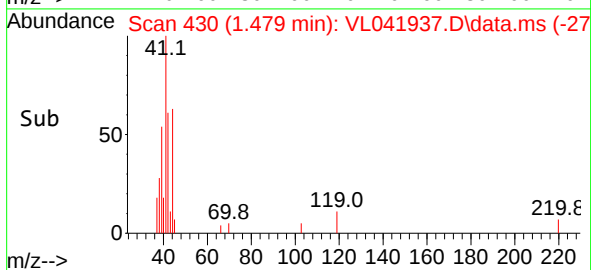
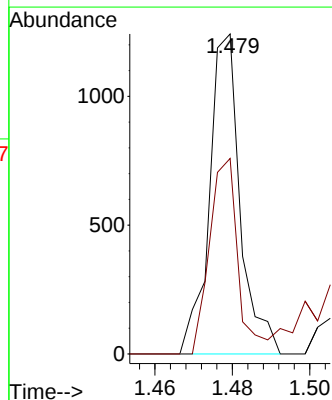
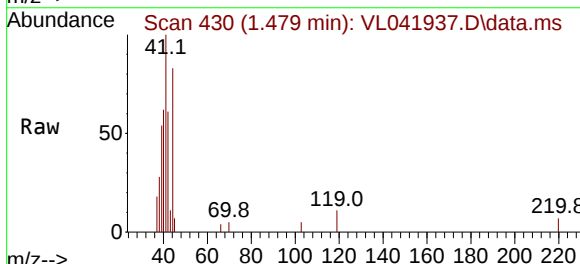
Instrument :
MSVOA_L
ClientSampleId :

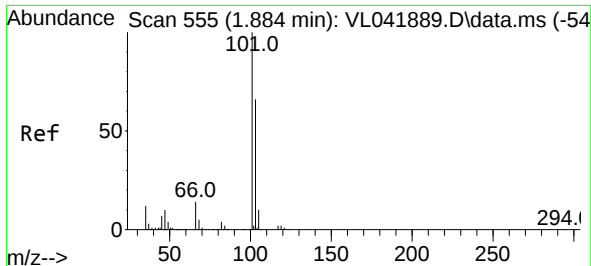
Tgt Ion: 85 Resp: 558
Ion Ratio Lower Upper
85 100
135 54.8 50.0 75.0



#9
Propene
Concen: 0.090 ppbv
RT: 1.479 min Scan# 430
Delta R.T. -0.006 min
Lab File: VL041937.D
Acq: 21 Jan 2025 01:01

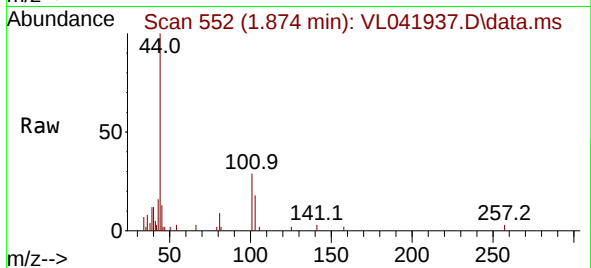
Tgt Ion: 41 Resp: 687
Ion Ratio Lower Upper
41 100
42 91.0 52.0 78.0#



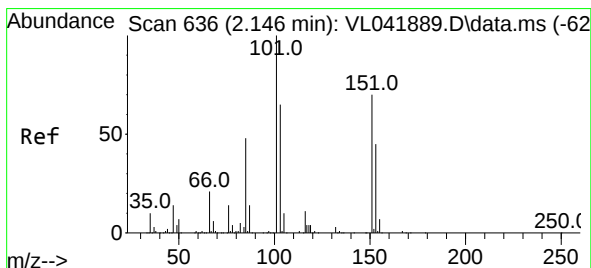
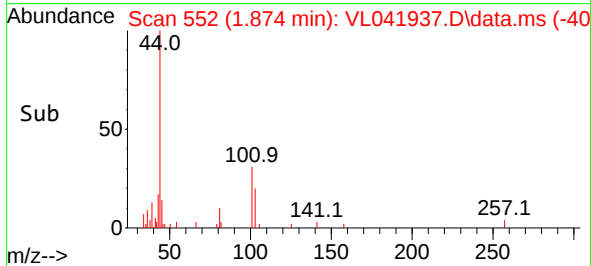
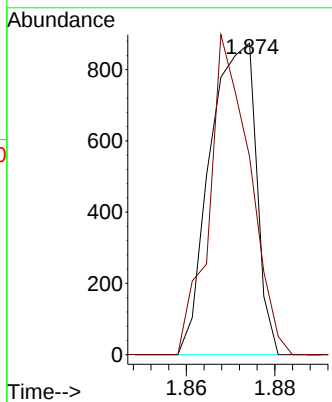


#11
Trichlorofluoromethane
Concen: 0.035 ppbv
RT: 1.874 min Scan# 511
Delta R.T. -0.010 min
Lab File: VL041937.D
Acq: 21 Jan 2025 01:01

Instrument :
MSVOA_L
ClientSampleId :

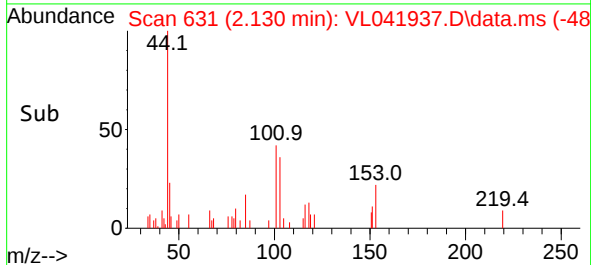
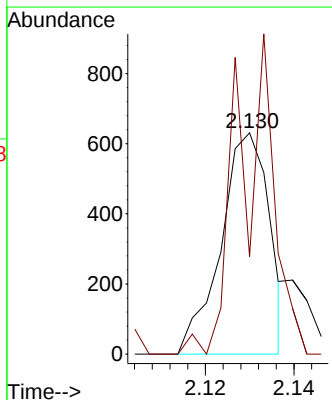
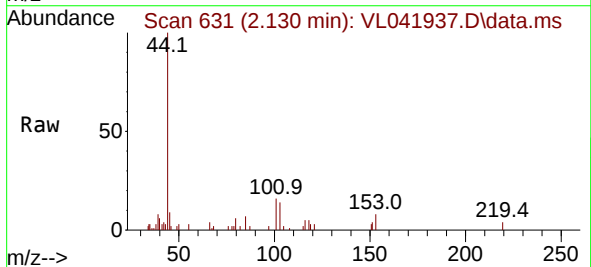


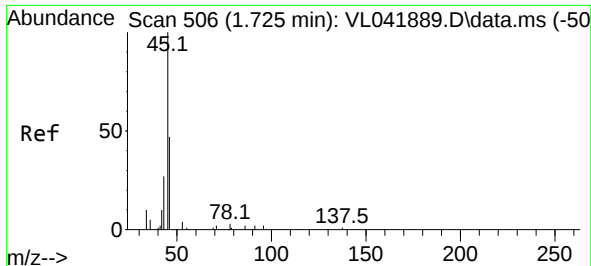
Tgt Ion:101 Resp: 634
Ion Ratio Lower Upper
101 100
103 63.6 53.1 79.7



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.033 ppbv
RT: 2.130 min Scan# 631
Delta R.T. -0.016 min
Lab File: VL041937.D
Acq: 21 Jan 2025 01:01

Tgt Ion:101 Resp: 482
Ion Ratio Lower Upper
101 100
151 113.1 56.1 84.1#

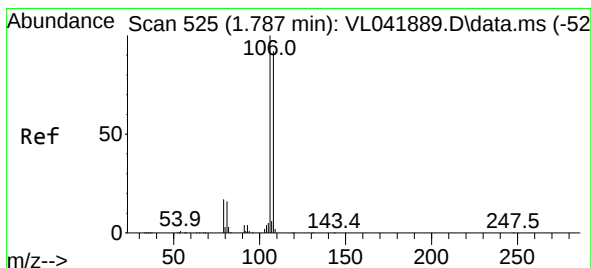
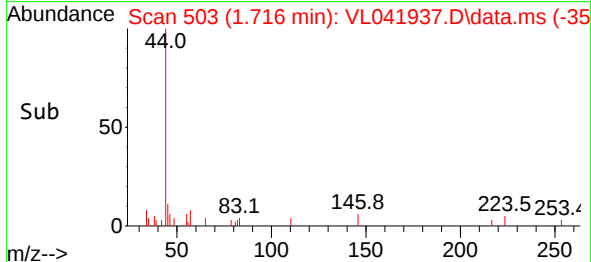
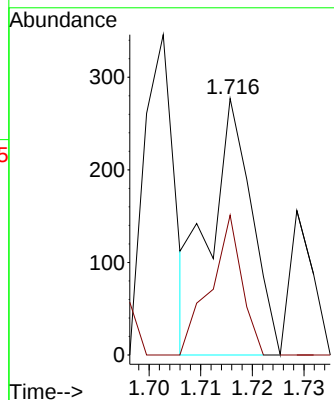
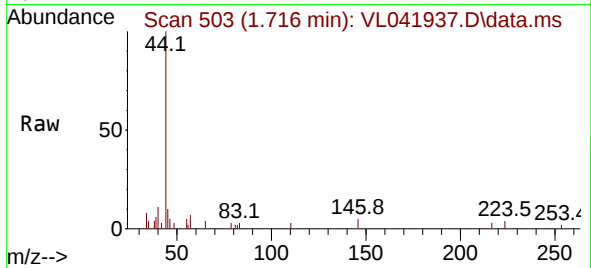




#13
Ethanol
Concen: 0.278 ppbv
RT: 1.716 min Scan# 506
Delta R.T. -0.010 min
Lab File: VL041937.D
Acq: 21 Jan 2025 01:01

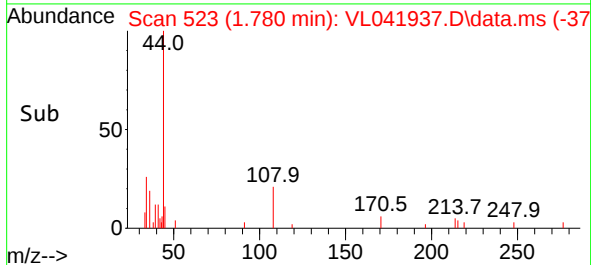
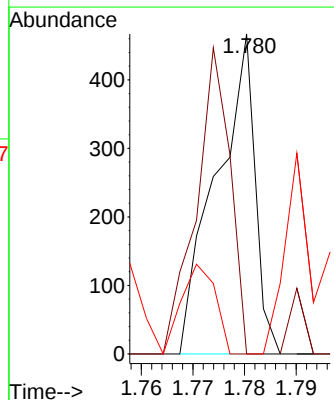
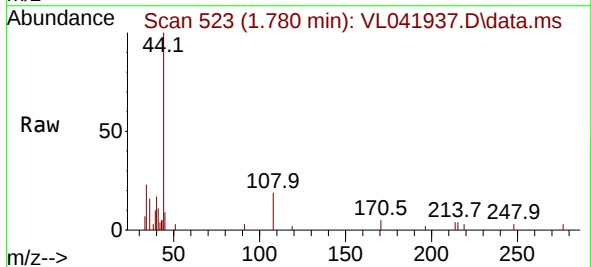
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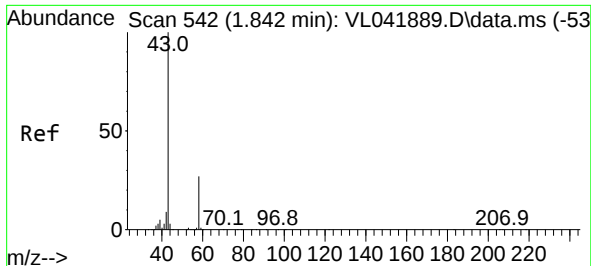
Tgt Ion: 45 Resp: 155
Ion Ratio Lower Upper
45 100
46 61.3 18.1 72.5



#14
Bromoethene
Concen: 0.046 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.006 min
Lab File: VL041937.D
Acq: 21 Jan 2025 01:01

Tgt Ion: 108 Resp: 243
Ion Ratio Lower Upper
108 100
106 102.5 85.5 128.3
79 90.9 15.3 22.9#

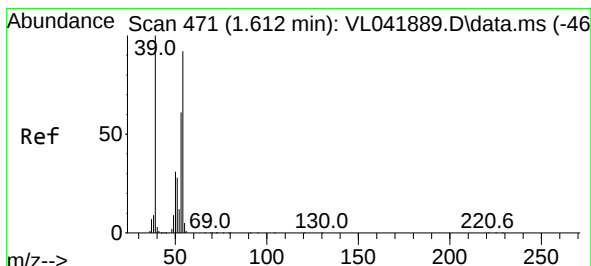
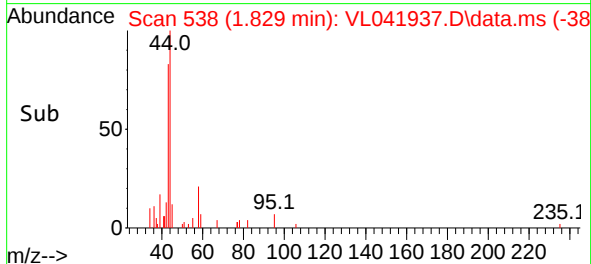
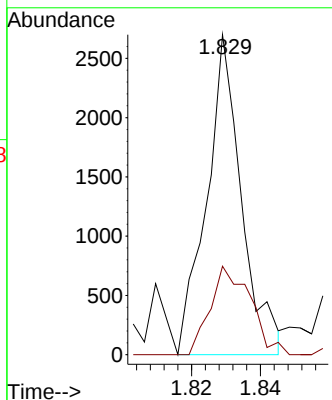
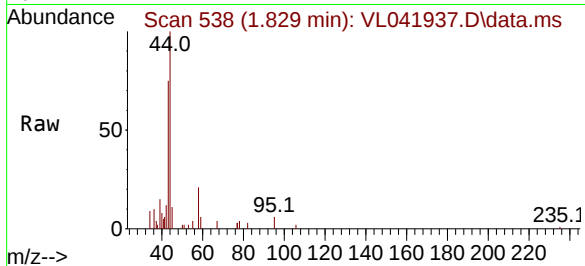




#15
Acetone
Concen: 0.122 ppbv
RT: 1.829 min Scan# 51
Delta R.T. -0.013 min
Lab File: VL041937.D
Acq: 21 Jan 2025 01:01

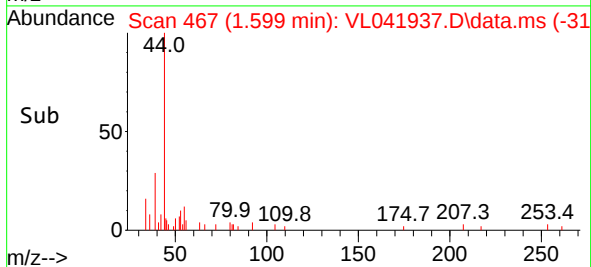
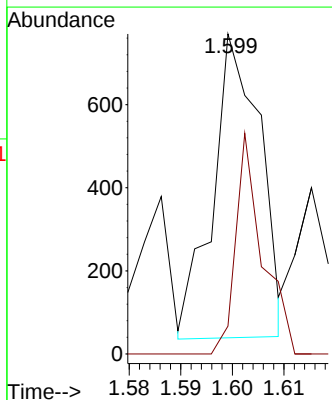
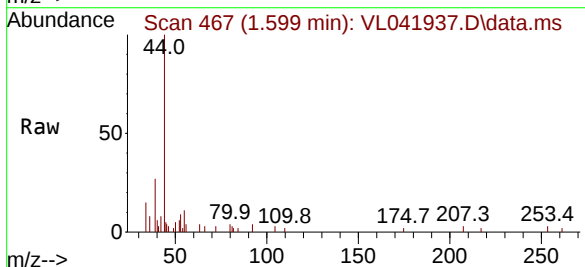
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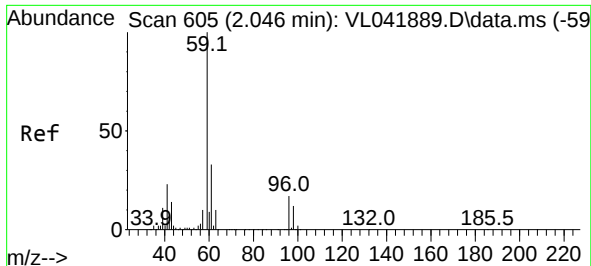
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Ion Ratio Lower Upper
43 100
58 36.0 21.9 32.9#



#16
1,3-Butadiene
Concen: 0.066 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.013 min
Lab File: VL041937.D
Acq: 21 Jan 2025 01:01

Tgt Ion: 39 Resp: 464
Ion Ratio Lower Upper
39 100
54 43.5 61.6 92.4#





#17

tert-Butyl alcohol

Concen: 0.034 ppbv

RT: 2.039 min Scan# 605

Delta R.T. -0.006 min

Lab File: VL041937.D

Acq: 21 Jan 2025 01:01

Instrument :

MSVOA_L

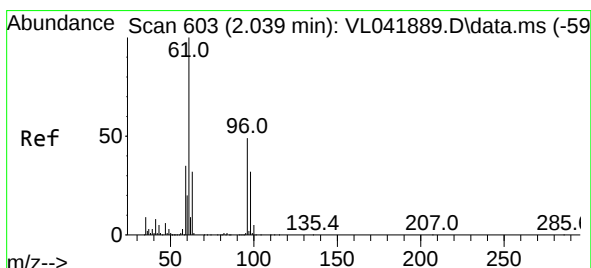
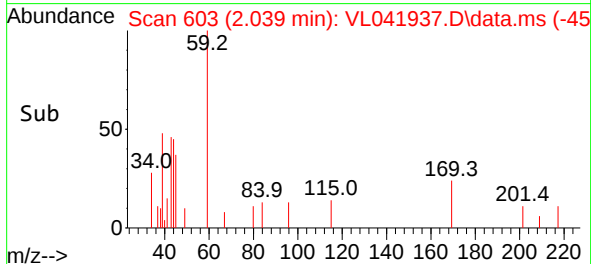
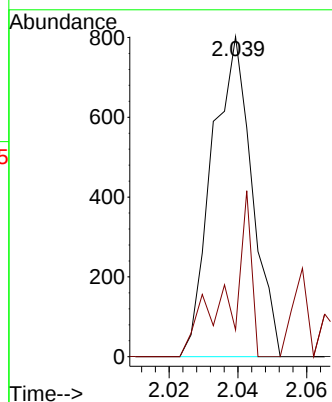
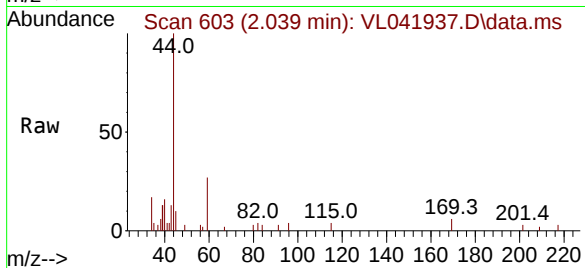
ClientSampleId :

Tgt Ion: 59 Resp: 647

Ion Ratio Lower Upper

59 100

57 28.7 7.8 11.8#



#18

1,1-Dichloroethene

Concen: 0.038 ppbv

RT: 2.023 min Scan# 598

Delta R.T. -0.016 min

Lab File: VL041937.D

Acq: 21 Jan 2025 01:01

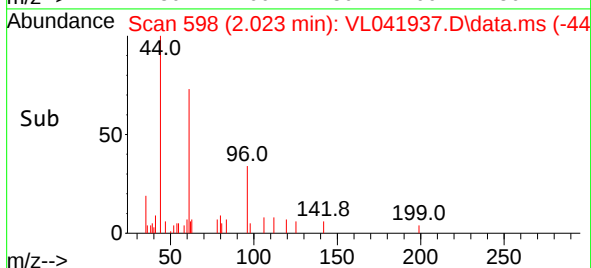
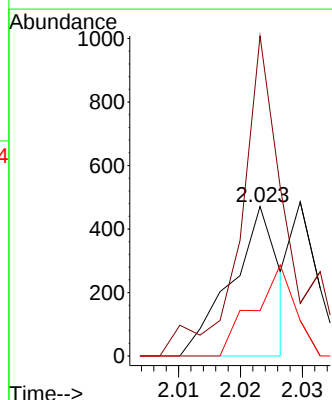
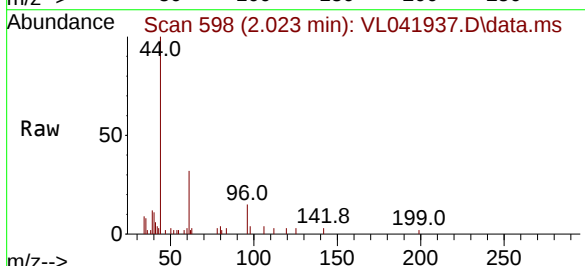
Tgt Ion: 96 Resp: 248

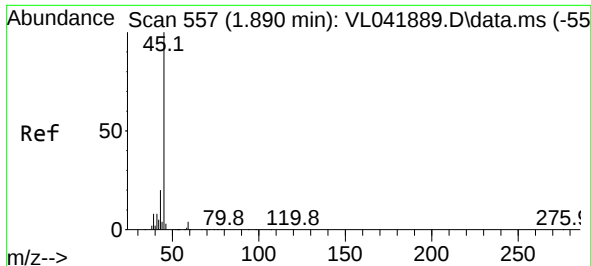
Ion Ratio Lower Upper

96 100

61 193.4 163.1 244.7

98 30.4 52.7 79.1#





#19

Isopropyl Alcohol

Concen: 0.095 ppbv

RT: 1.881 min Scan# 51

Delta R.T. -0.010 min

Lab File: VL041937.D

Acq: 21 Jan 2025 01:01

Instrument :

MSVOA_L

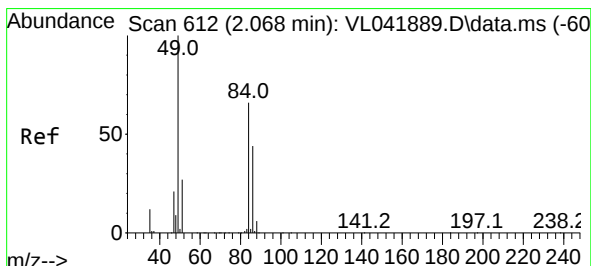
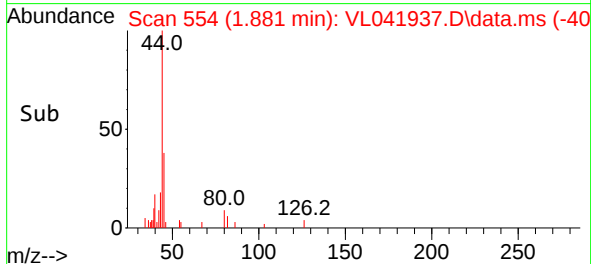
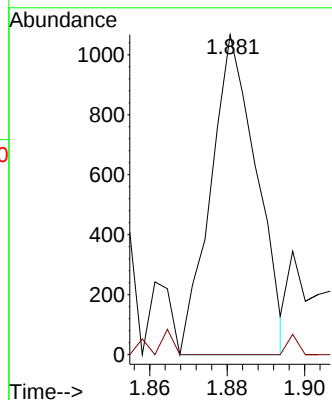
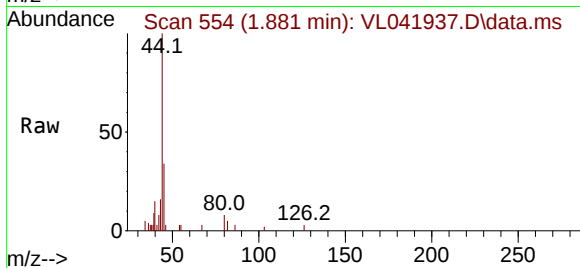
ClientSampleId :

Tgt Ion: 45 Resp: 877

Ion Ratio Lower Upper

45 100

58 0.0 35.0 52.6#



#20

Methylene Chloride

Concen: 0.178 ppbv

RT: 2.056 min Scan# 608

Delta R.T. -0.013 min

Lab File: VL041937.D

Acq: 21 Jan 2025 01:01

Tgt Ion: 84 Resp: 1098

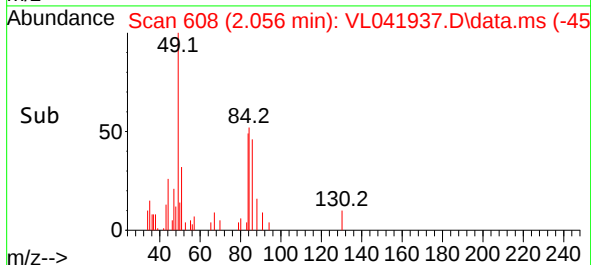
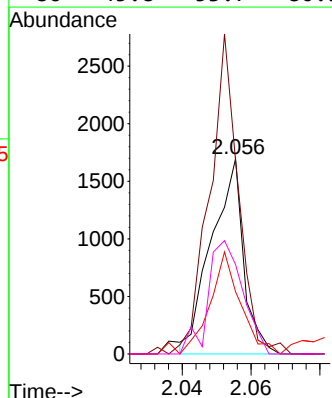
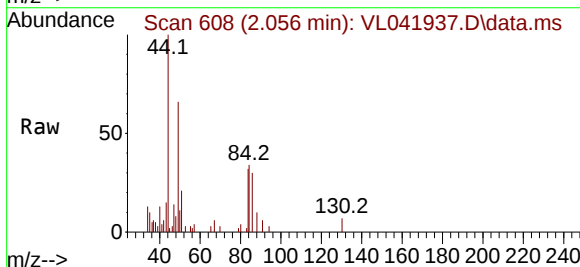
Ion Ratio Lower Upper

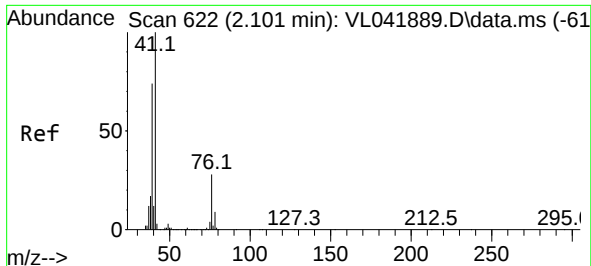
84 100

49 94.3 123.1 184.7#

51 31.9 35.8 53.8#

86 45.8 53.7 80.5#

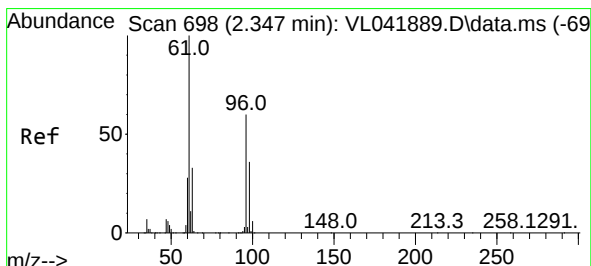
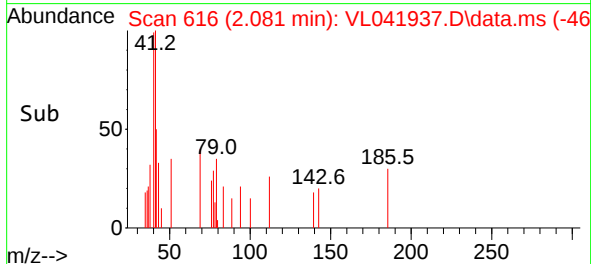
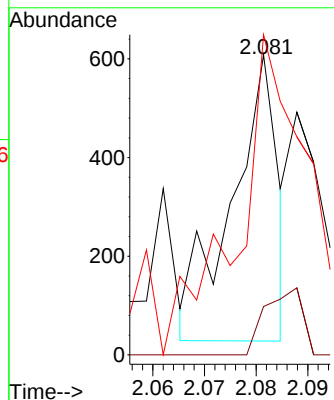
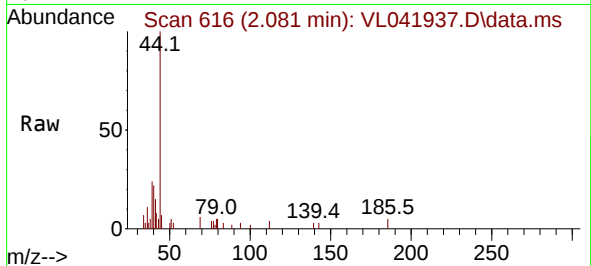




#21
 Allyl Chloride
 Concen: 0.033 ppbv
 RT: 2.081 min Scan# 616
 Delta R.T. -0.019 min
 Lab File: VL041937.D
 Acq: 21 Jan 2025 01:01

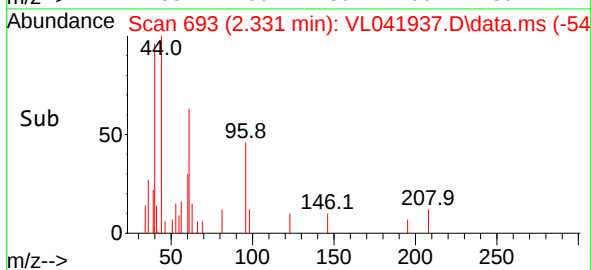
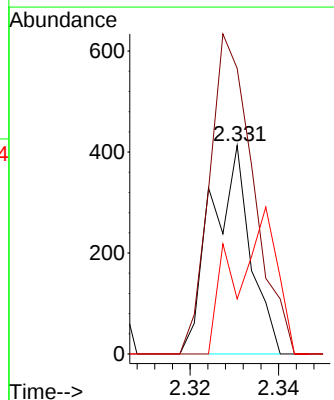
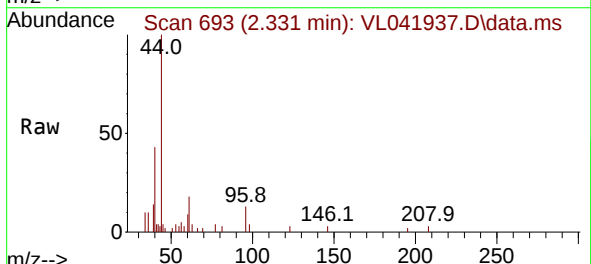
Instrument :
 MSVOA_L
 ClientSampleId :

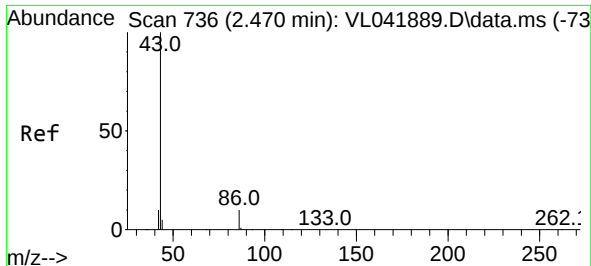
Tgt Ion: 41 Resp: 360
 Ion Ratio Lower Upper
 41 100
 76 0.0 24.2 36.4#
 39 219.7 60.6 91.0#



#22
 trans-1,2-Dichloroethene
 Concen: 0.035 ppbv
 RT: 2.331 min Scan# 693
 Delta R.T. -0.016 min
 Lab File: VL041937.D
 Acq: 21 Jan 2025 01:01

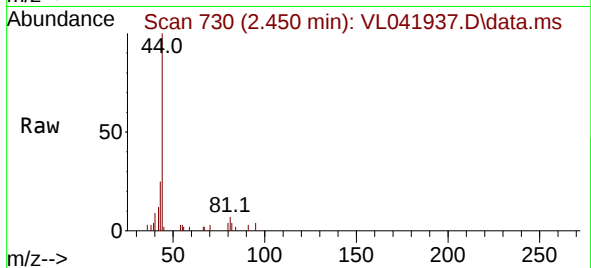
Tgt Ion: 96 Resp: 254
 Ion Ratio Lower Upper
 96 100
 61 137.0 134.5 201.7
 98 26.4 48.9 73.3#



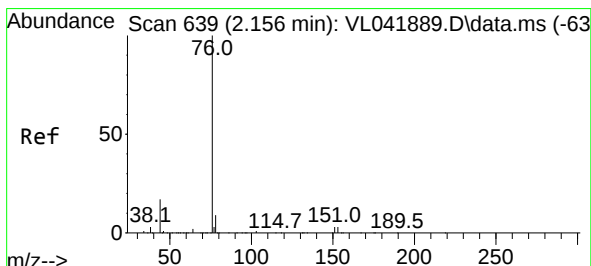
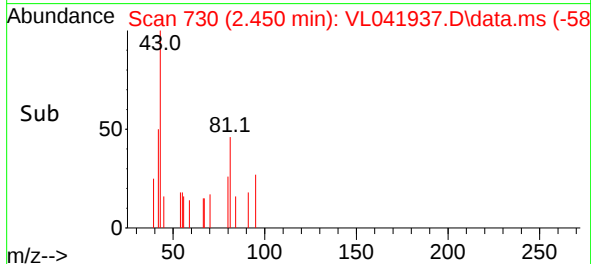
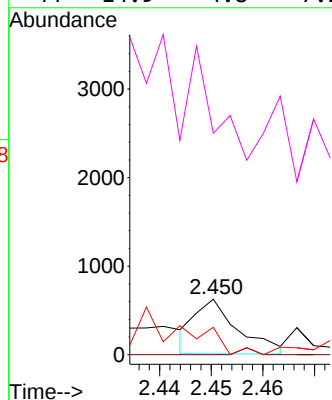


#23
 Vinyl Acetate
 Concen: 0.047 ppbv
 RT: 2.450 min Scan# 71
 Delta R.T. -0.019 min
 Lab File: VL041937.D
 Acq: 21 Jan 2025 01:01

Instrument :
 MSVOA_L
 ClientSampleId :

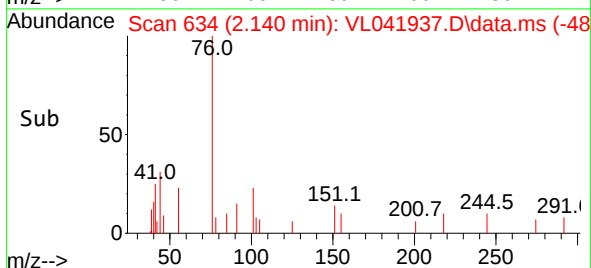
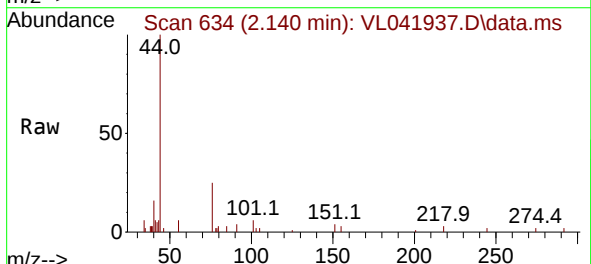
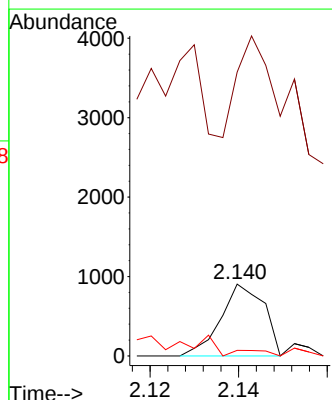


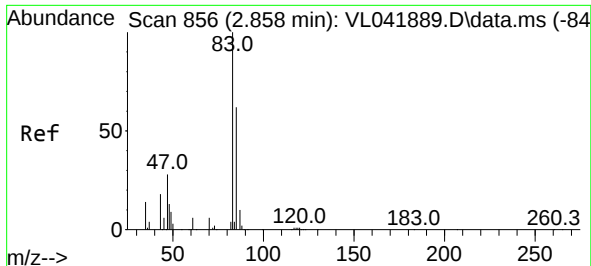
Tgt Ion:	43	Resp:	361
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.2	9.4#
42	41.8	8.5	12.7#
44	14.9	4.8	7.2#



#27
 Carbon Disulfide
 Concen: 0.037 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. -0.016 min
 Lab File: VL041937.D
 Acq: 21 Jan 2025 01:01

Tgt Ion:	76	Resp:	612
Ion	Ratio	Lower	Upper
76	100		
44	0.0	15.4	23.0#
78	46.7	9.3	13.9#





#29

Chloroform

Concen: 0.037 ppbv

RT: 2.836 min Scan# 84

Delta R.T. -0.023 min

Lab File: VL041937.D

Acq: 21 Jan 2025 01:01

Instrument :

MSVOA_L

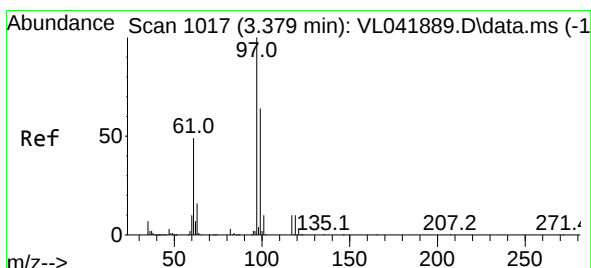
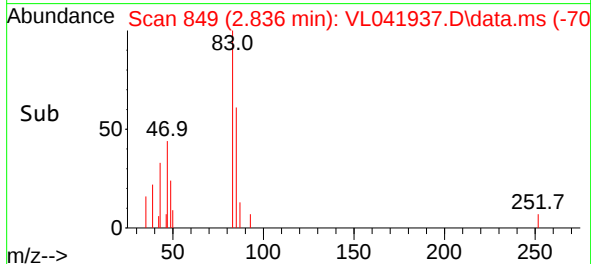
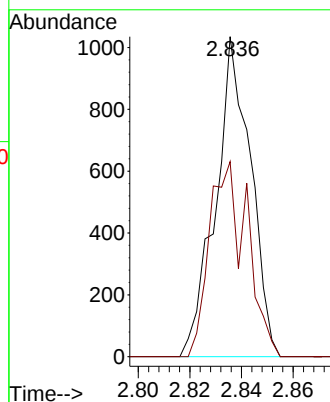
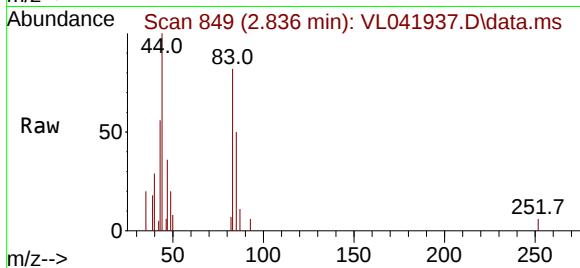
ClientSampleId :

Tgt Ion: 83 Resp: 975

Ion Ratio Lower Upper

83 100

85 61.0 50.1 75.1



#32

1,1,1-Trichloroethane

Concen: 0.033 ppbv

RT: 3.353 min Scan# 1009

Delta R.T. -0.026 min

Lab File: VL041937.D

Acq: 21 Jan 2025 01:01

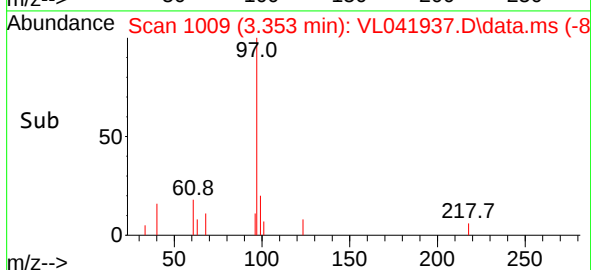
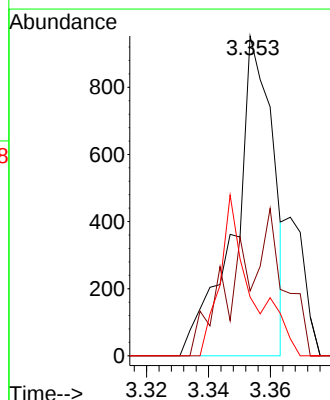
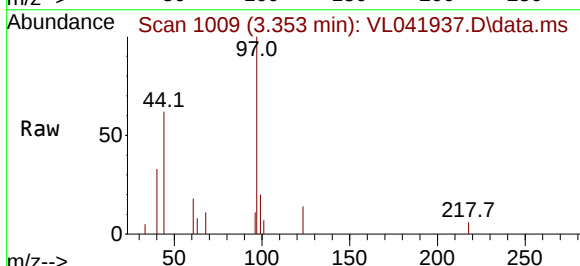
Tgt Ion: 97 Resp: 828

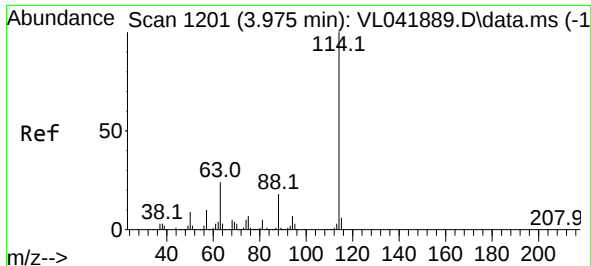
Ion Ratio Lower Upper

97 100

99 56.6 51.1 76.7

61 41.1 39.0 58.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.939 min Scan# 1190

Delta R.T. -0.036 min

Lab File: VL041937.D

Acq: 21 Jan 2025 01:01

Instrument :

MSVOA_L

ClientSampleId :

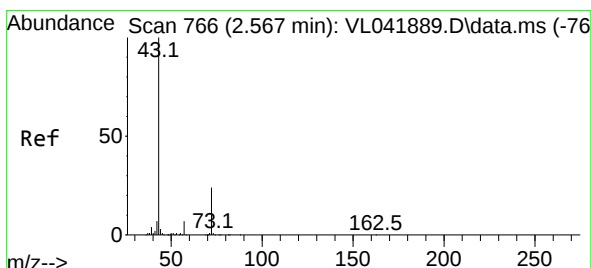
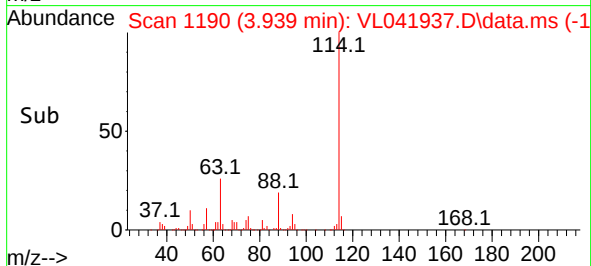
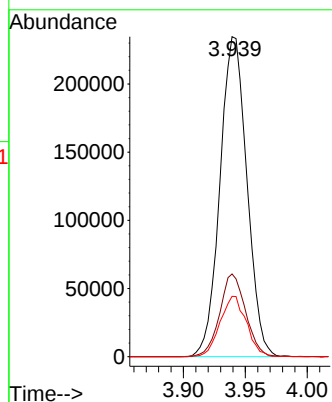
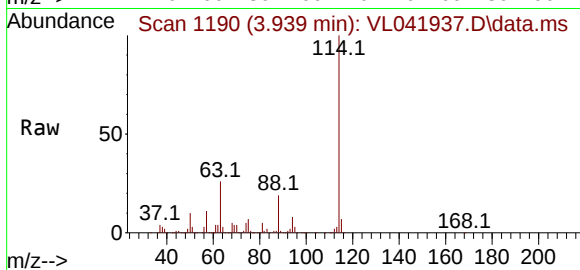
Tgt Ion:114 Resp: 355763

Ion Ratio Lower Upper

114 100

63 24.9 19.8 29.6

88 18.4 14.4 21.6



#34

2-Butanone

Concen: 0.055 ppbv

RT: 2.551 min Scan# 761

Delta R.T. -0.016 min

Lab File: VL041937.D

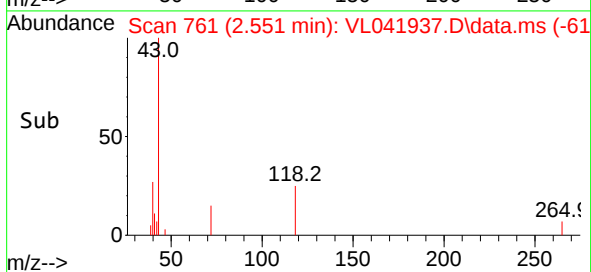
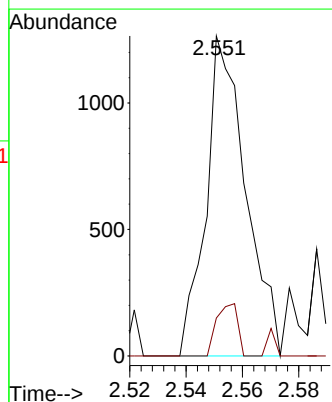
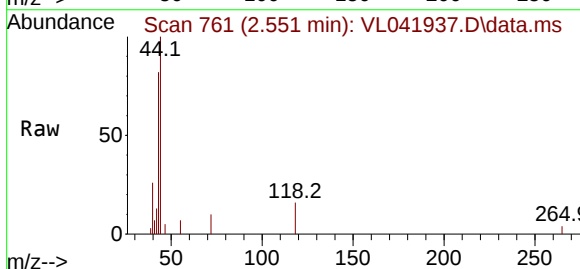
Acq: 21 Jan 2025 01:01

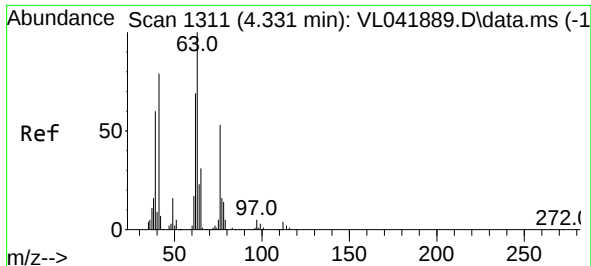
Tgt Ion: 43 Resp: 1238

Ion Ratio Lower Upper

43 100

72 10.3 18.6 28.0#





#39

1,2-Dichloropropane

Concen: 7.724 ppbv

RT: 3.939 min Scan# 1190

Delta R.T. -0.392 min

Lab File: VL041937.D

Acq: 21 Jan 2025 01:01

Instrument :

MSVOA_L

ClientSampleId :

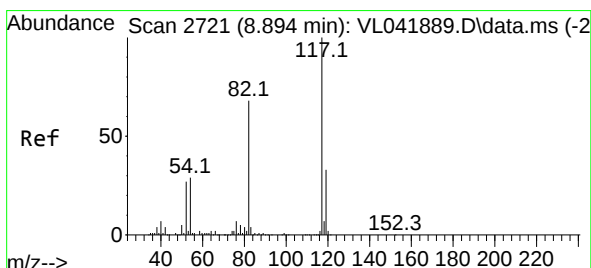
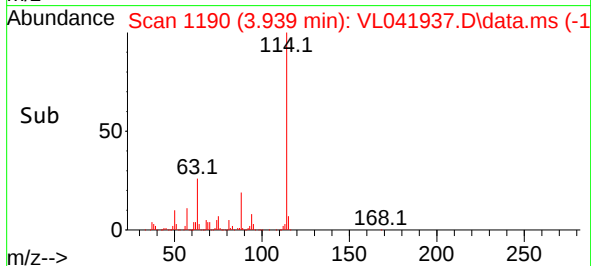
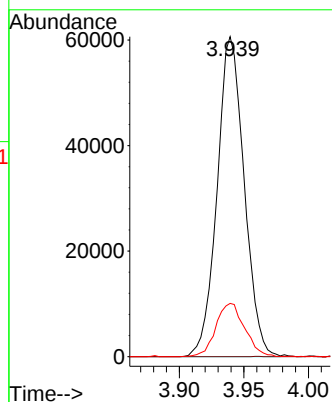
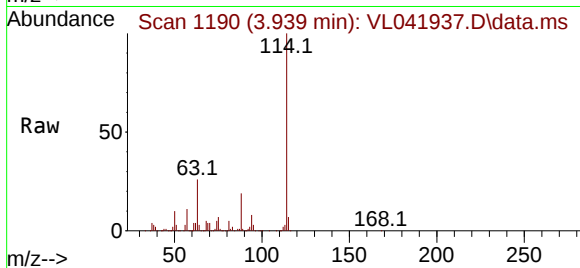
Tgt Ion: 63 Resp: 88409

Ion Ratio Lower Upper

63 100

41 0.0 63.7 95.5#

62 16.6 55.4 83.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.862 min Scan# 2711

Delta R.T. -0.032 min

Lab File: VL041937.D

Acq: 21 Jan 2025 01:01

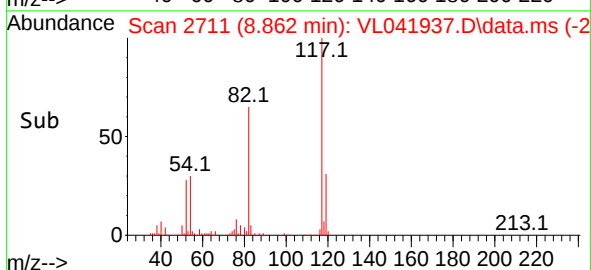
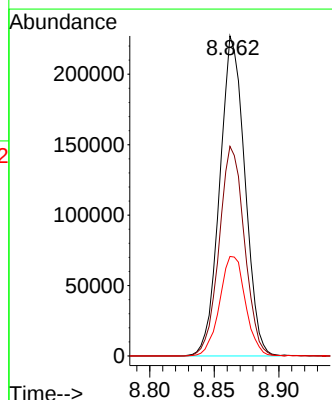
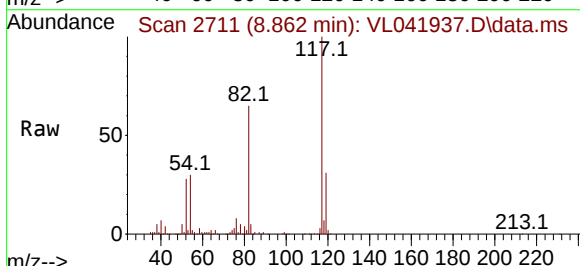
Tgt Ion: 117 Resp: 307216

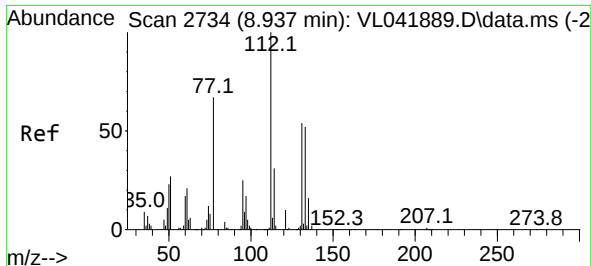
Ion Ratio Lower Upper

117 100

82 66.1 54.2 81.4

119 32.1 25.0 37.6





#57

Chlorobenzene

Concen: 0.042 ppbv

RT: 8.898 min Scan# 21

Delta R.T. -0.039 min

Lab File: VL041937.D

Acq: 21 Jan 2025 01:01

Instrument :

MSVOA_L

ClientSampleId :

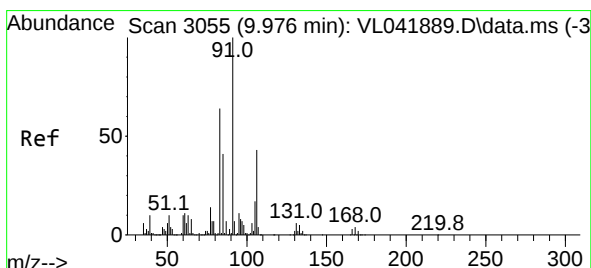
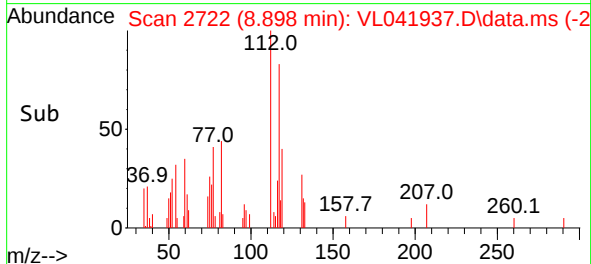
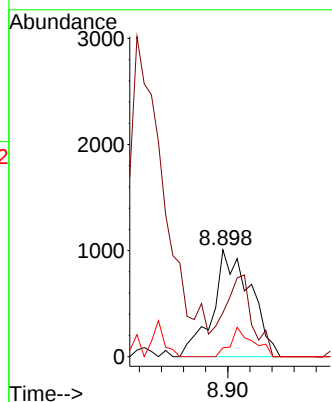
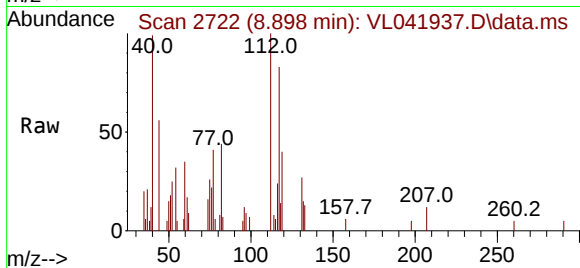
Tgt Ion:112 Resp: 1193

Ion Ratio Lower Upper

112 100

77 41.1 54.6 82.0#

114 8.3 28.2 34.4#



#63

1,1,2,2-Tetrachloroethane

Concen: 0.035 ppbv

RT: 9.946 min Scan# 3046

Delta R.T. -0.029 min

Lab File: VL041937.D

Acq: 21 Jan 2025 01:01

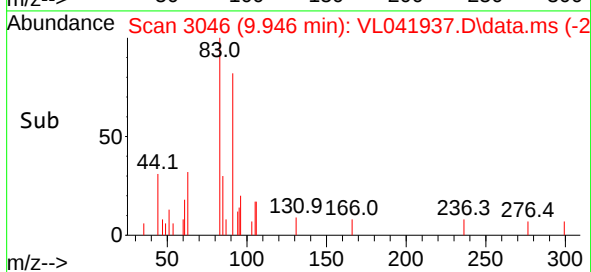
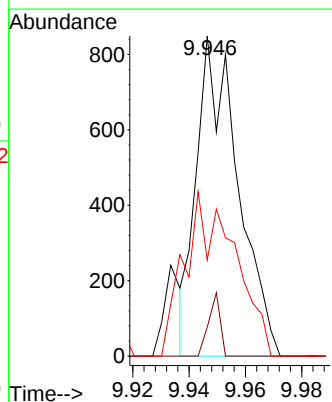
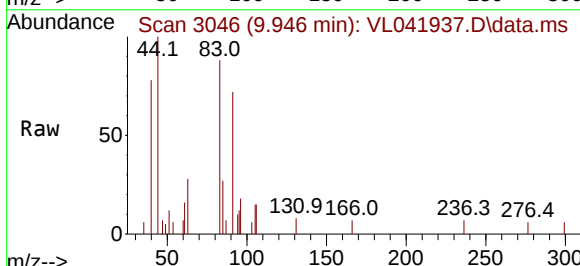
Tgt Ion: 83 Resp: 864

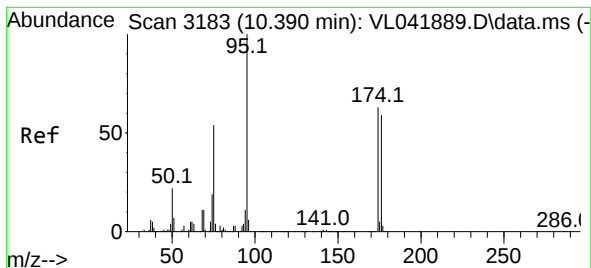
Ion Ratio Lower Upper

83 100

131 5.6 4.8 14.4

85 63.4 32.4 97.2

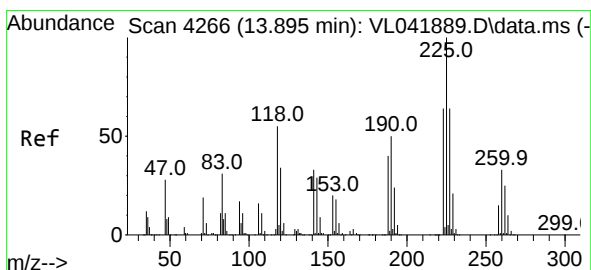
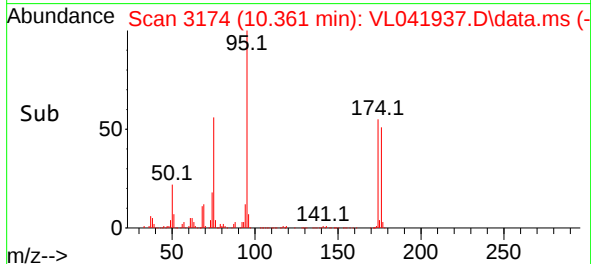
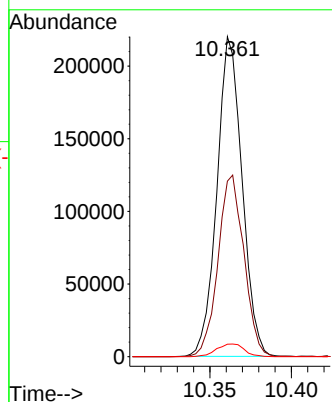
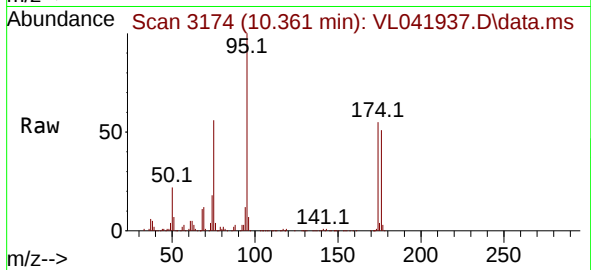




#68
1-Bromo-4-Fluorobenzene
Concen: 9.750 ppbv
RT: 10.361 min Scan# 3183
Delta R.T. -0.029 min
Lab File: VL041937.D
Acq: 21 Jan 2025 01:01

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 95 Resp: 235931
Ion Ratio Lower Upper
95 100
174 58.7 49.0 73.4
175 4.4 3.8 5.8



#78
Hexachloro-1,3-Butadiene
Concen: 0.031 ppbv
RT: 13.869 min Scan# 4258
Delta R.T. -0.026 min
Lab File: VL041937.D
Acq: 21 Jan 2025 01:01

Tgt Ion: 225 Resp: 648
Ion Ratio Lower Upper
225 100
223 61.1 50.8 76.2
227 70.1 50.3 75.5

