

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
 Data File : VL042452.D
 Acq On : 29 Apr 2025 18:09
 Operator : SY/MD
 Sample : Q1665-19DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-2-3242025DL

Quant Time: Apr 30 01:24:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

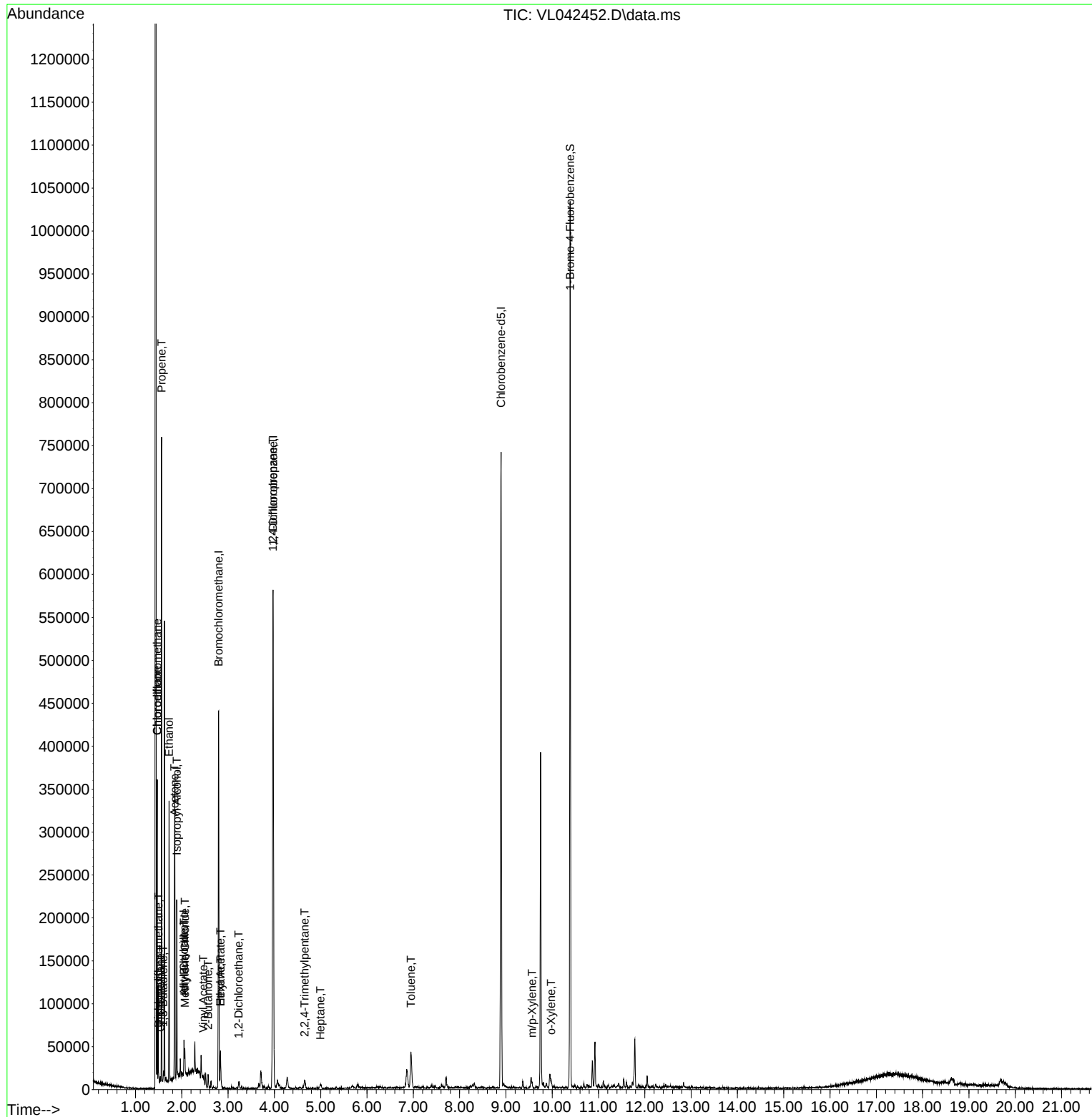
Internal Standards						
1) Bromochloromethane	2.794	49	114403	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	305602	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.895	117	261578	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	242040	11.260	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	112.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	2645	0.131	ppbv	99
3) Chlorodifluoromethane	1.470	51	74252	3.858	ppbv #	57
4) Chloromethane	1.535	50	1338	0.167	ppbv #	44
7) Chloroethane	1.470	64	3753	1.192	ppbv	100
9) Propene	1.564	41	86624	9.882	ppbv	97
10) Heptane	4.991	43	811	0.033	ppbv #	27
13) Ethanol	1.726	45	110989	79.664	ppbv	76
15) Acetone	1.842	43	115137	6.148	ppbv #	85
16) 1,3-Butadiene	1.603	39	1421	0.159	ppbv #	9
17) tert-Butyl alcohol	2.049	59	15817	0.681	ppbv #	92
19) Isopropyl Alcohol	1.891	45	80028	7.692	ppbv #	36
20) Methylene Chloride	2.069	84	3847	0.525	ppbv #	83
21) Allyl Chloride	2.049	41	4493	0.347	ppbv #	85
23) Vinyl Acetate	2.464	43	6705	0.884	ppbv #	72
25) Ethyl Acetate	2.836	43	3860	0.084	ppbv #	74
26) Hexane	2.836	57	8047	0.431	ppbv #	42
34) 2-Butanone	2.567	43	8758	0.362	ppbv	97
37) 1,2-Dichloroethane	3.227	62	2347	0.119	ppbv #	81
39) 1,2-Dichloropropane	3.969	63	89205	7.262	ppbv #	23
44) 2,2,4-Trimethylpentane	4.655	57	2244	0.039	ppbv #	1
53) Toluene	6.950	91	15746	0.398	ppbv #	39
59) m/p-Xylene	9.565	91	1536	0.037	ppbv #	32
60) o-Xylene	9.976	91	2743	0.065	ppbv	85

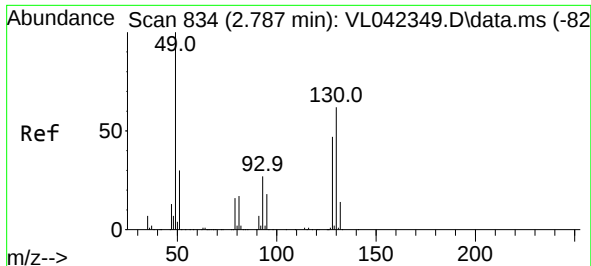
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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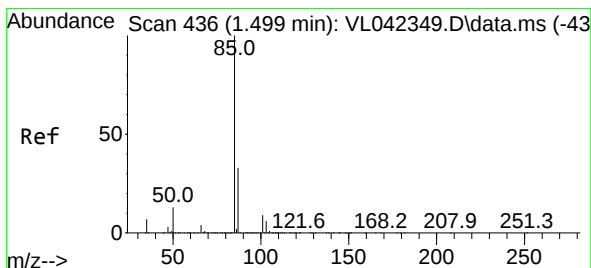
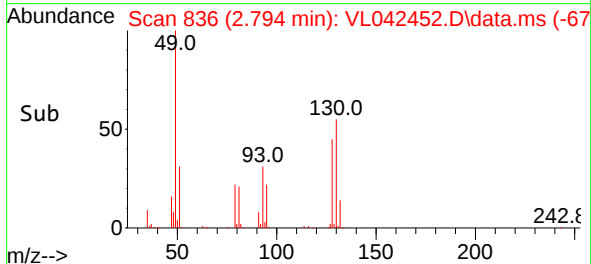
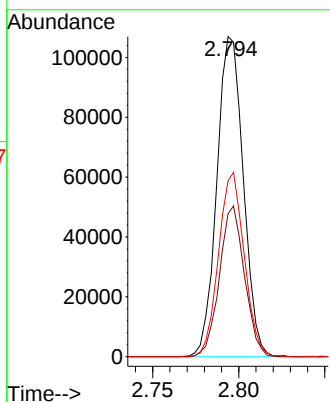
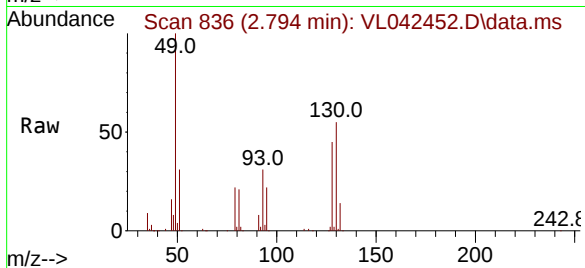




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

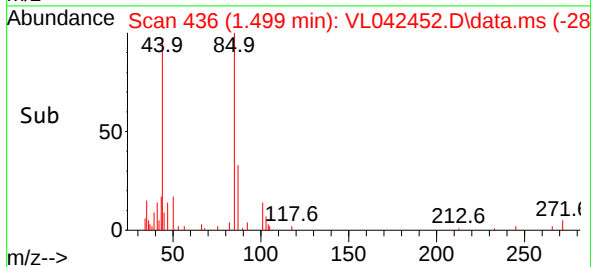
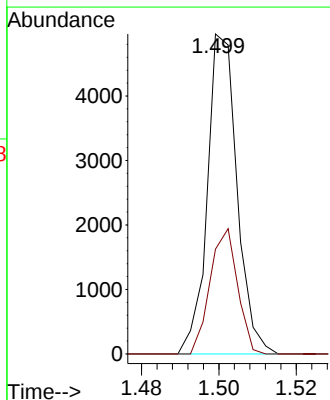
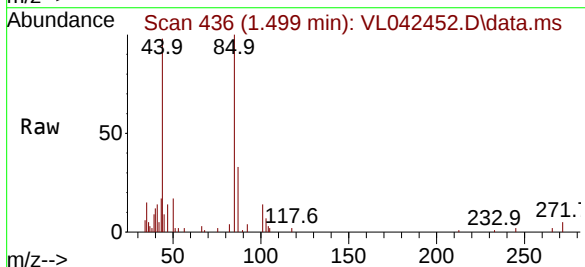
Instrument :
MSVOA_L
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IA-B2-2-3242025DL

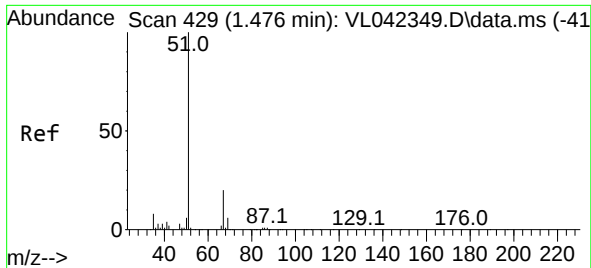
Tgt Ion: 49 Resp: 114403
Ion Ratio Lower Upper
49 100
128 44.4 22.8 68.4
130 55.9 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.131 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 85 Resp: 2645
Ion Ratio Lower Upper
85 100
87 32.8 26.6 39.8

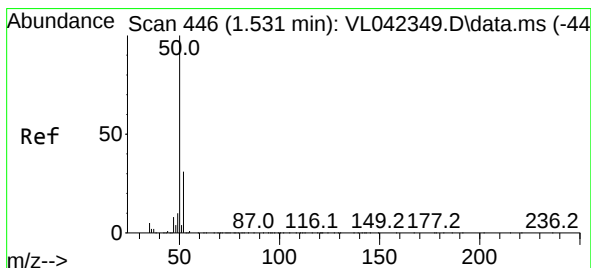
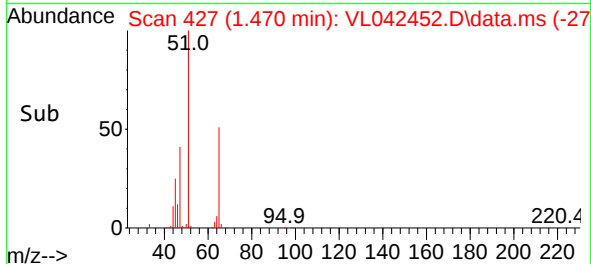
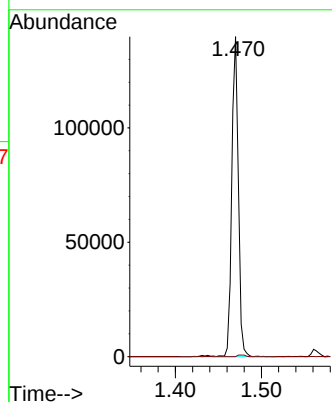
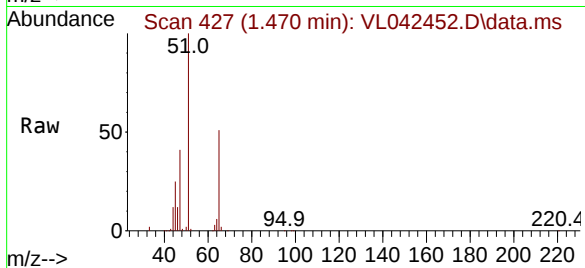




#3
Chlorodifluoromethane
Concen: 3.858 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

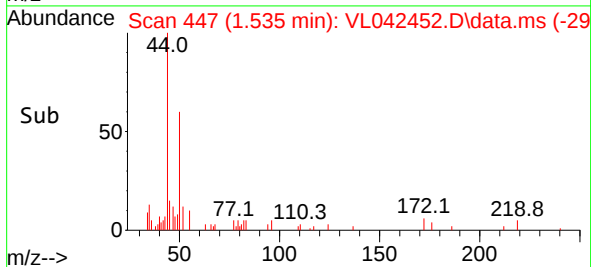
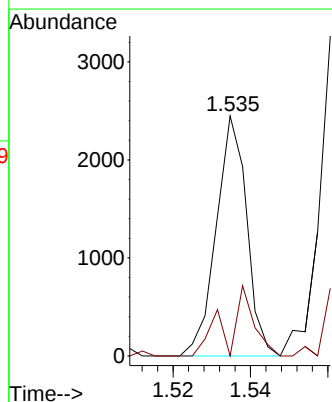
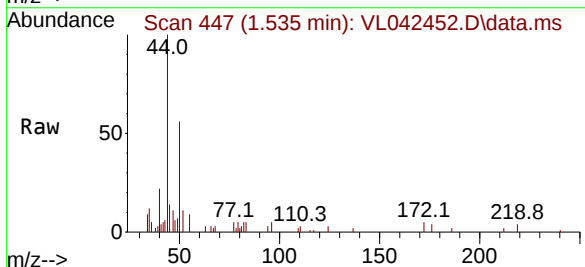
Instrument :
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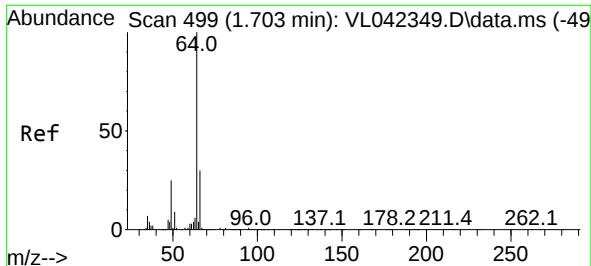
Tgt Ion: 51 Resp: 74252
Ion Ratio Lower Upper
51 100
67 0.6 16.2 24.4#



#4
Chloromethane
Concen: 0.167 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 50 Resp: 1338
Ion Ratio Lower Upper
50 100
52 0.0 24.7 37.1#

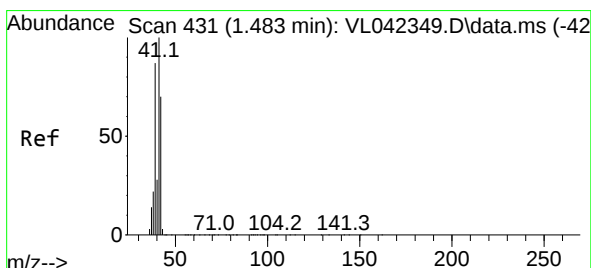
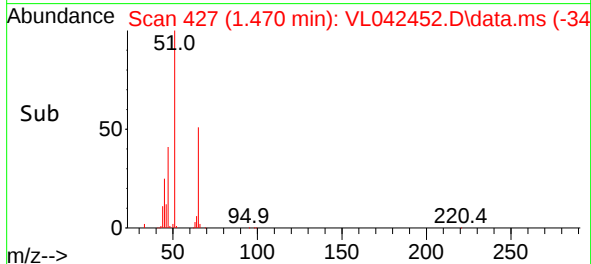
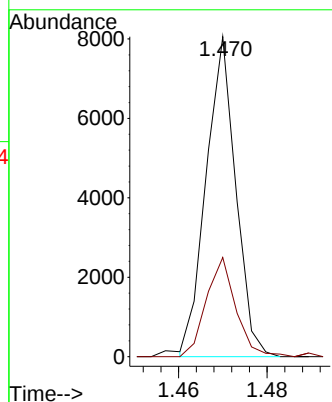
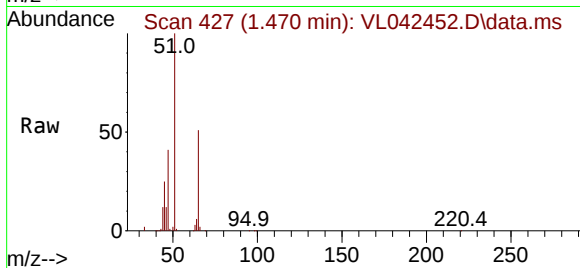




#7
Chloroethane
Concen: 1.192 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.233 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

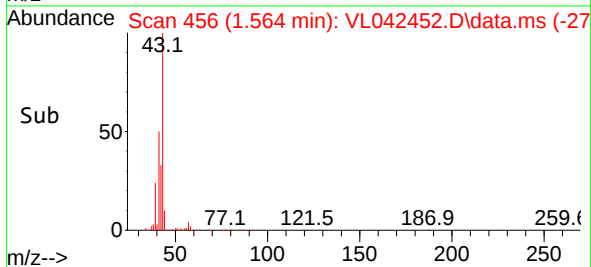
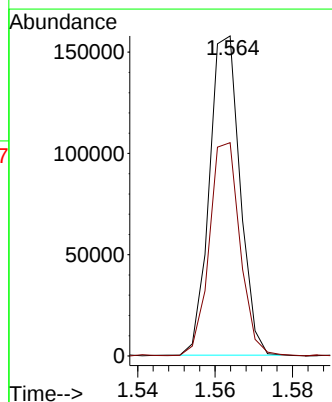
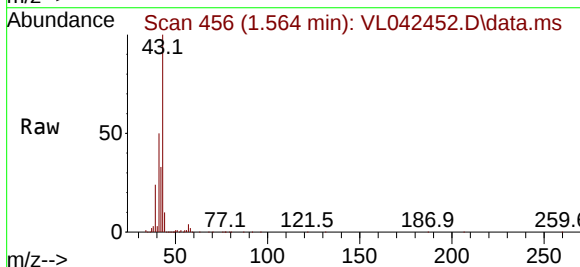
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-3242025DL

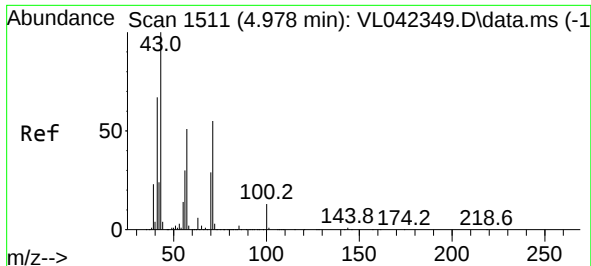
Tgt Ion: 64 Resp: 3753
Ion Ratio Lower Upper
64 100
66 31.0 24.6 37.0



#9
Propene
Concen: 9.882 ppbv
RT: 1.564 min Scan# 456
Delta R.T. 0.081 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 41 Resp: 86624
Ion Ratio Lower Upper
41 100
42 68.0 56.2 84.4

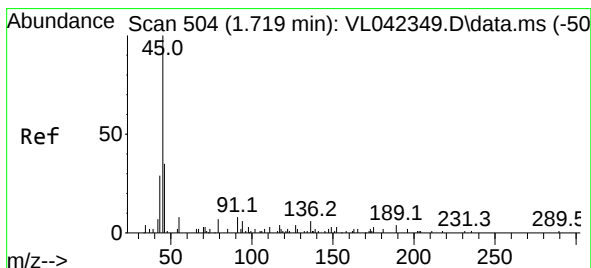
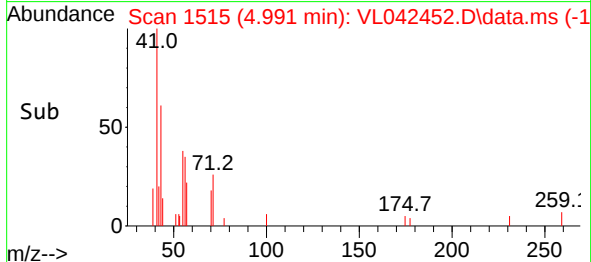
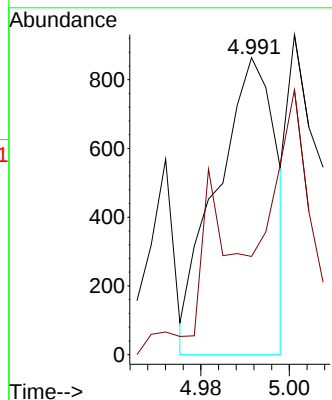
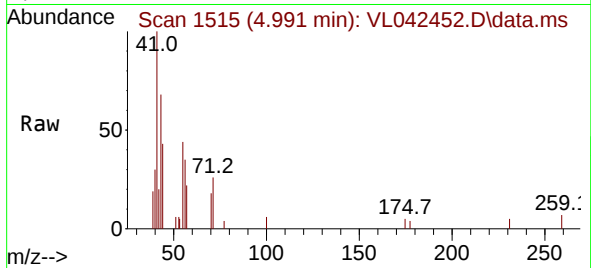




#10
Heptane
Concen: 0.033 ppbv
RT: 4.991 min Scan# 11
Delta R.T. 0.013 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

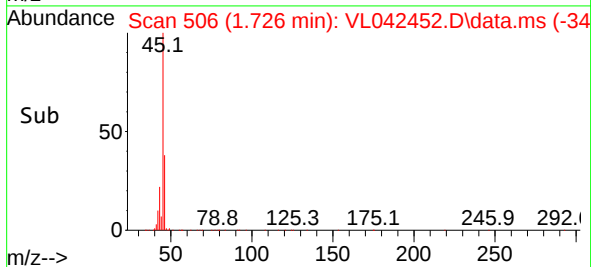
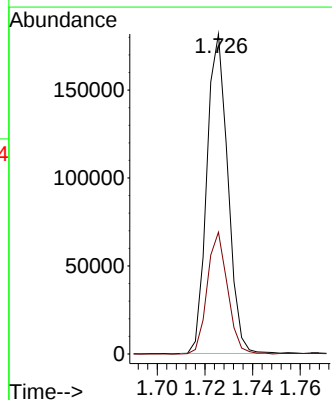
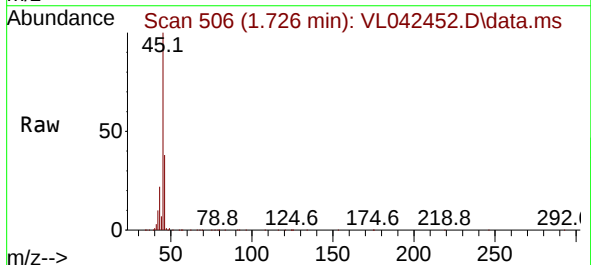
Instrument :
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ClientSampleId :
IA-B2-2-3242025DL

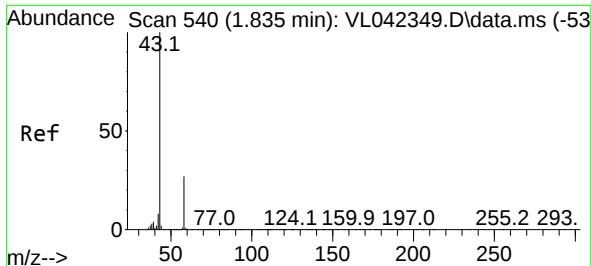
Tgt Ion: 43 Resp: 811
Ion Ratio Lower Upper
43 100
57 0.0 39.9 59.9#



#13
Ethanol
Concen: 79.664 ppbv
RT: 1.726 min Scan# 506
Delta R.T. 0.007 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 45 Resp: 110989
Ion Ratio Lower Upper
45 100
46 37.3 21.9 87.7

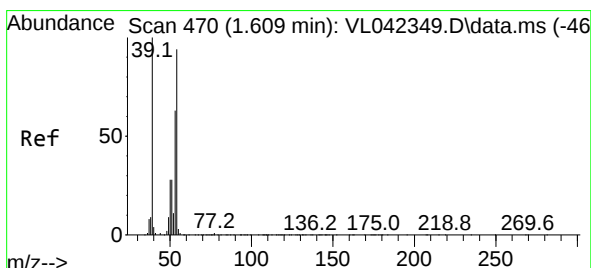
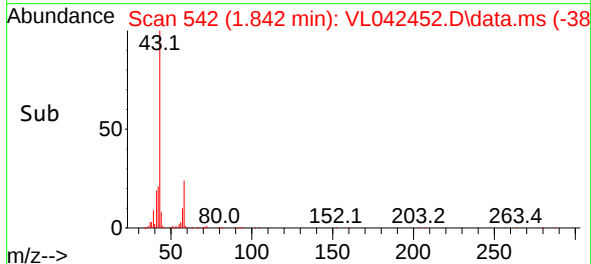
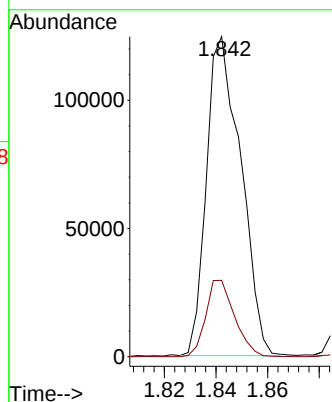
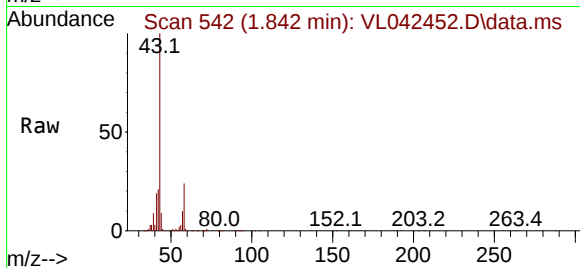




#15
Acetone
Concen: 6.148 ppbv
RT: 1.842 min Scan# 541
Delta R.T. 0.007 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

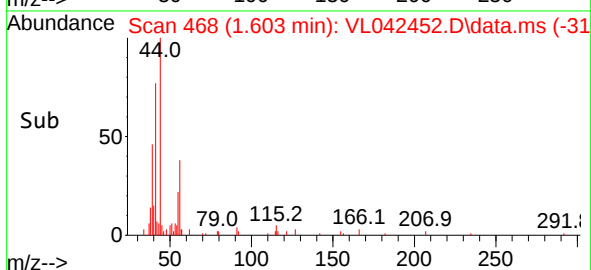
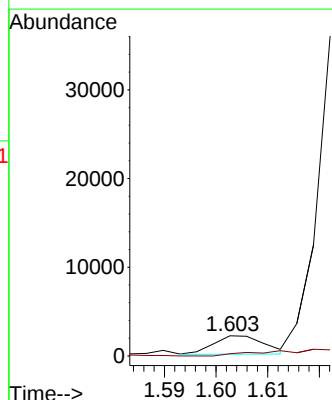
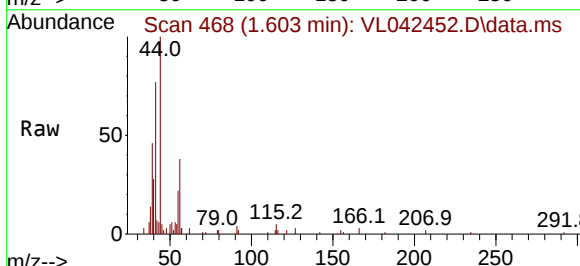
Instrument :
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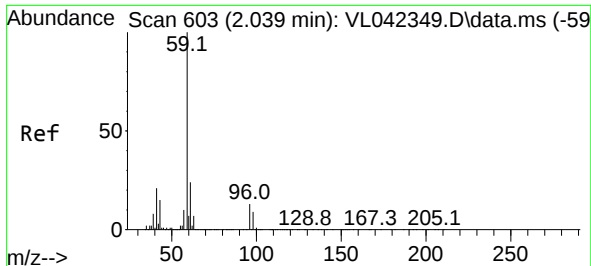
Tgt Ion: 43 Resp: 115137
Ion Ratio Lower Upper
43 100
58 20.2 22.4 33.6#



#16
1,3-Butadiene
Concen: 0.159 ppbv
RT: 1.603 min Scan# 468
Delta R.T. -0.006 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 39 Resp: 1421
Ion Ratio Lower Upper
39 100
54 0.0 64.9 97.3#





#17

tert-Butyl alcohol

Concen: 0.681 ppbv

RT: 2.049 min Scan# 603

Delta R.T. 0.010 min

Lab File: VL042452.D

Acq: 29 Apr 2025 18:09

Instrument :

MSVOA_1

ClientSampleId :

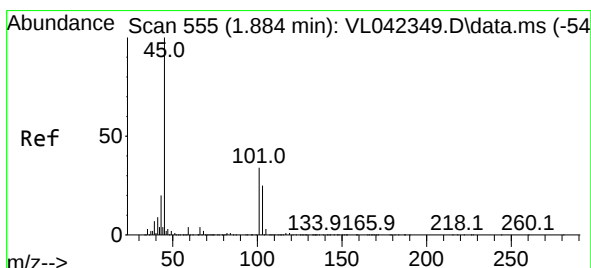
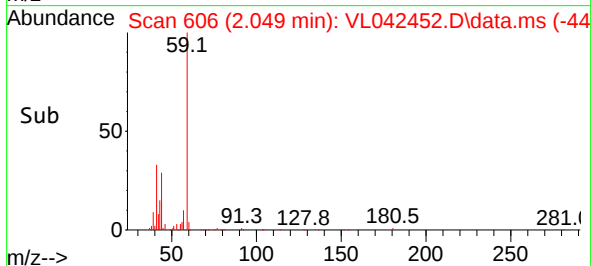
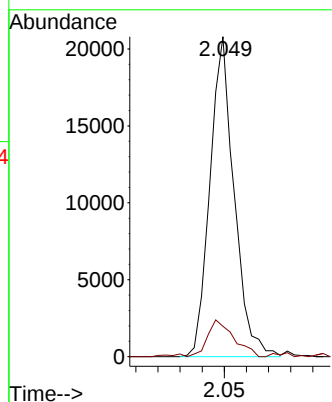
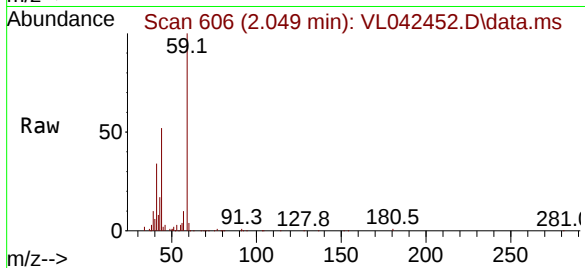
IA-B2-2-3242025DL

Tgt Ion: 59 Resp: 15817

Ion Ratio Lower Upper

59 100

57 14.1 8.7 13.1#



#19

Isopropyl Alcohol

Concen: 7.692 ppbv

RT: 1.891 min Scan# 557

Delta R.T. 0.007 min

Lab File: VL042452.D

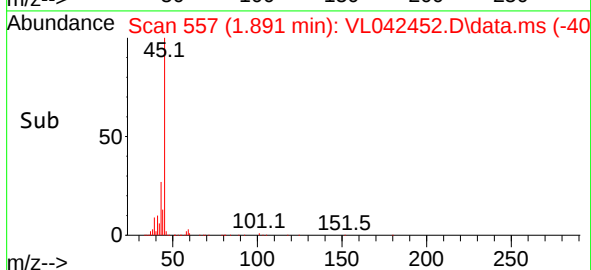
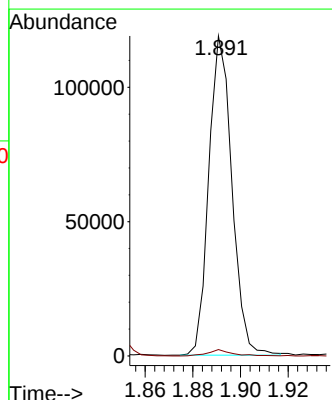
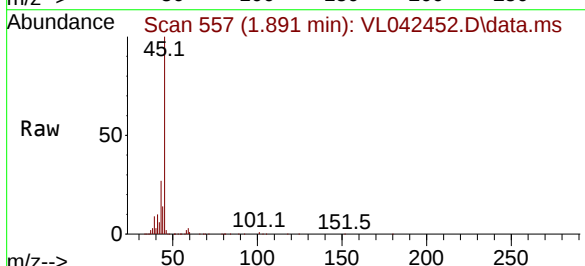
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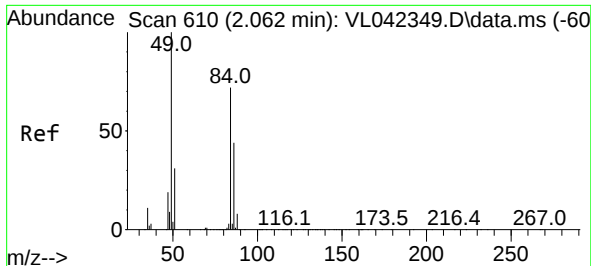
Tgt Ion: 45 Resp: 80028

Ion Ratio Lower Upper

45 100

58 2.3 34.5 51.7#

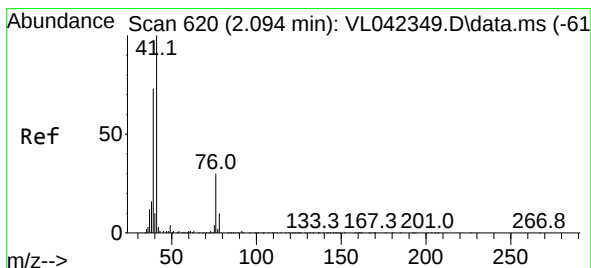
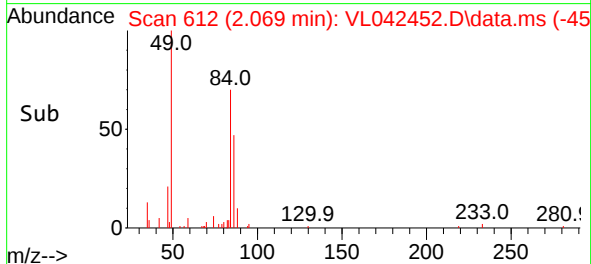
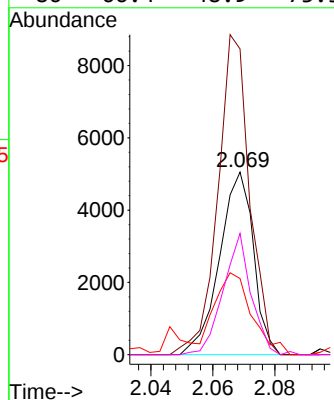
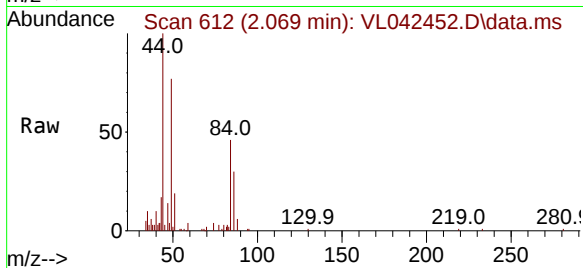




#20
Methylene Chloride
Concen: 0.525 ppbv
RT: 2.069 min Scan# 610
Delta R.T. 0.007 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

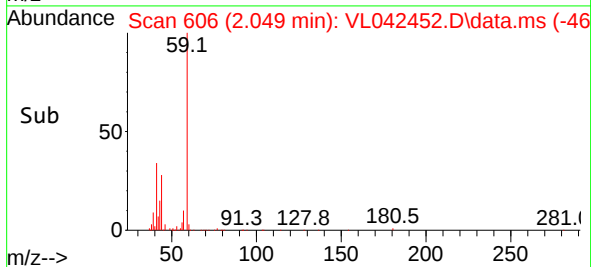
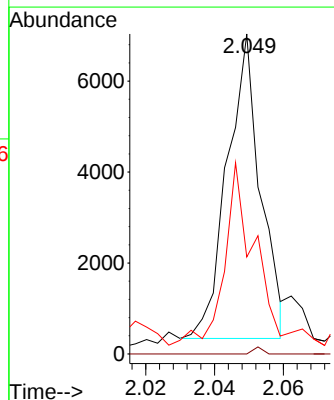
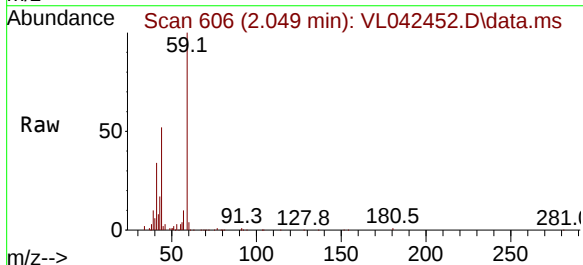
Instrument :
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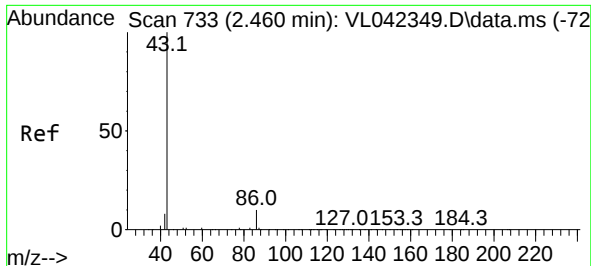
Tgt Ion: 84 Resp: 3847
Ion Ratio Lower Upper
84 100
49 167.5 111.6 167.4#
51 35.0 35.1 52.7#
86 66.4 48.9 73.3



#21
Allyl Chloride
Concen: 0.347 ppbv
RT: 2.049 min Scan# 606
Delta R.T. -0.045 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 41 Resp: 4493
Ion Ratio Lower Upper
41 100
76 8.6 24.8 37.2#
39 72.2 60.6 90.8

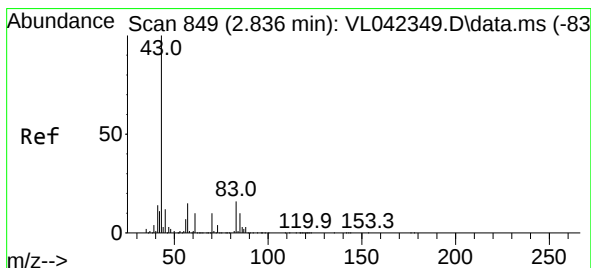
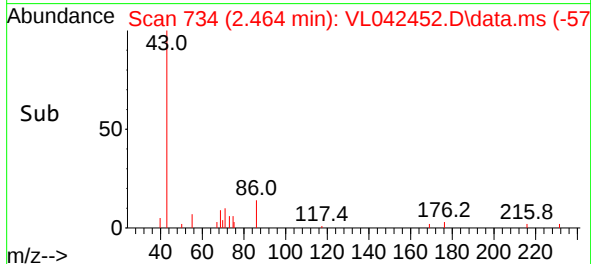
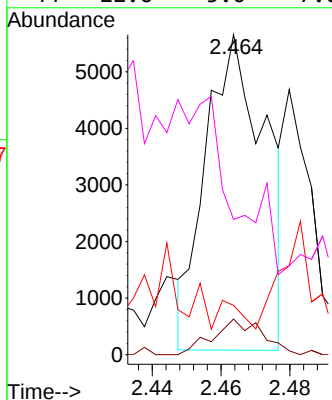
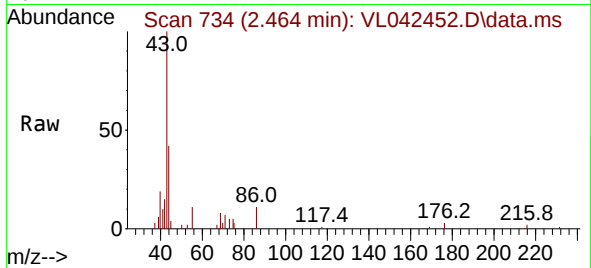




#23
 Vinyl Acetate
 Concen: 0.884 ppbv
 RT: 2.464 min Scan# 71
 Delta R.T. 0.004 min
 Lab File: VL042452.D
 Acq: 29 Apr 2025 18:09

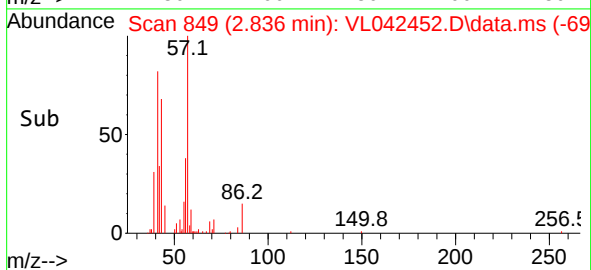
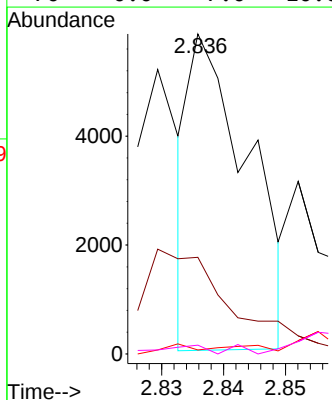
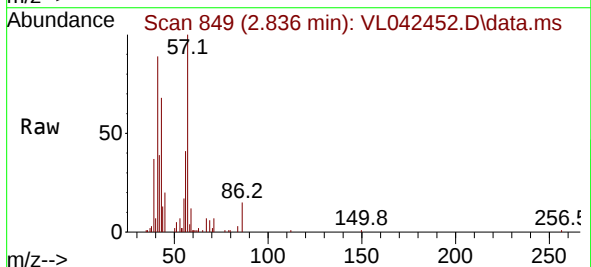
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-2-3242025DL

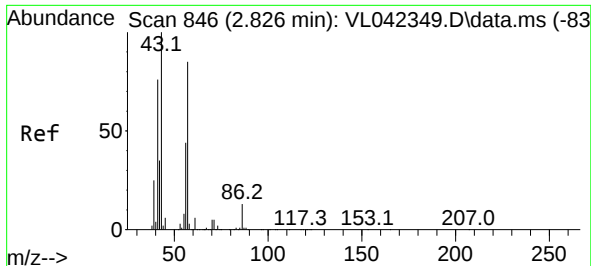
Tgt Ion:	43	Resp:	6705
Ion	Ratio	Lower	Upper
43	100		
86	14.6	6.5	9.7#
42	1.7	7.8	11.8#
44	22.6	5.0	7.6#



#25
 Ethyl Acetate
 Concen: 0.084 ppbv
 RT: 2.836 min Scan# 849
 Delta R.T. 0.000 min
 Lab File: VL042452.D
 Acq: 29 Apr 2025 18:09

Tgt Ion:	43	Resp:	3860
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.3	12.5#
61	0.0	7.3	10.9#
70	0.0	7.0	10.6#

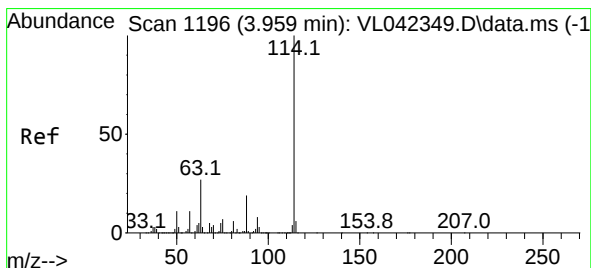
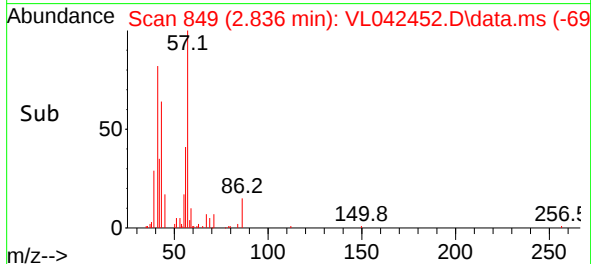
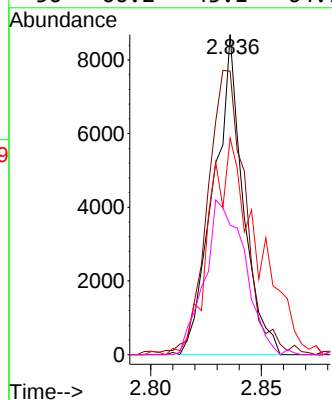
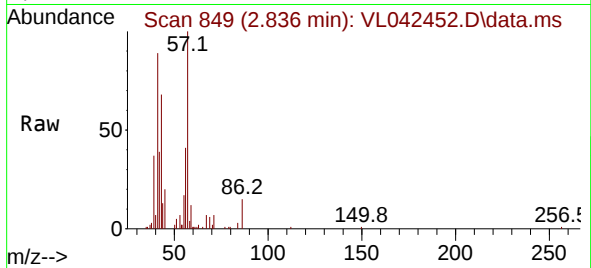




#26
Hexane
Concen: 0.431 ppbv
RT: 2.836 min Scan# 846
Delta R.T. 0.010 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

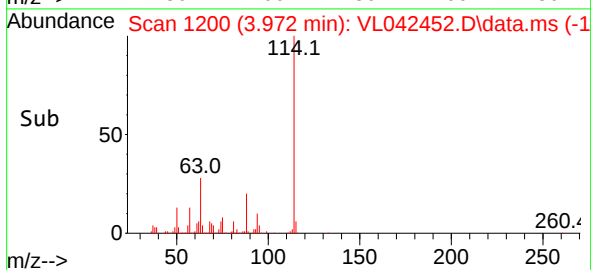
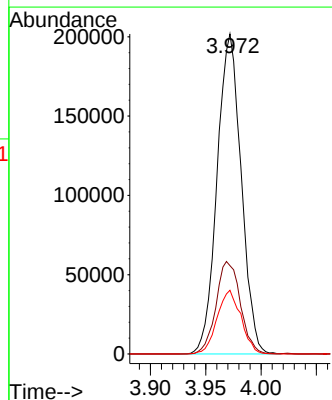
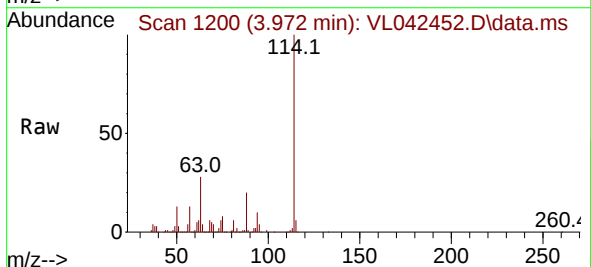
Instrument :
MSVOA_1
ClientSampleId :
IA-B2-2-3242025DL

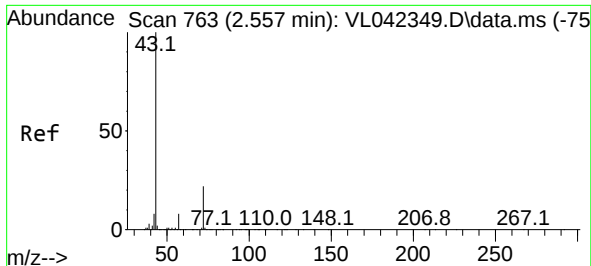
Tgt Ion: 57 Resp: 8047
Ion Ratio Lower Upper
57 100
41 114.0 77.9 116.9
43 112.8 208.4 312.6#
56 66.2 43.1 64.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.972 min Scan# 1200
Delta R.T. 0.013 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 114 Resp: 305602
Ion Ratio Lower Upper
114 100
63 29.3 21.8 32.6
88 19.7 15.5 23.3

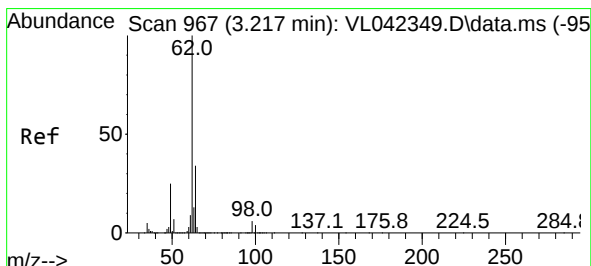
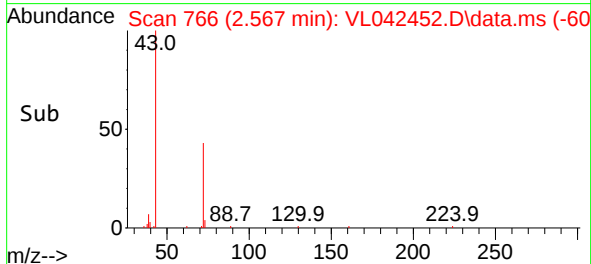
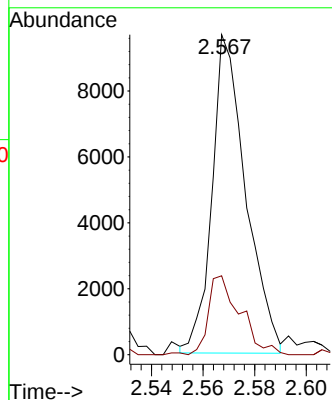
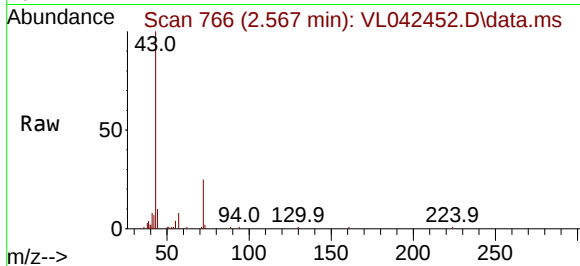




#34
2-Butanone
Concen: 0.362 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.010 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

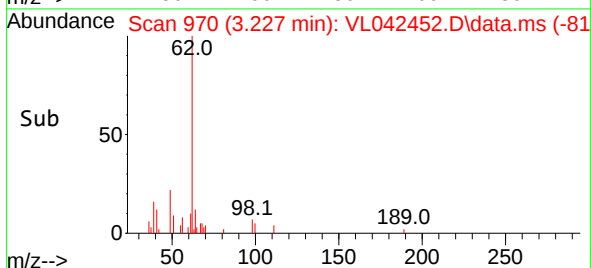
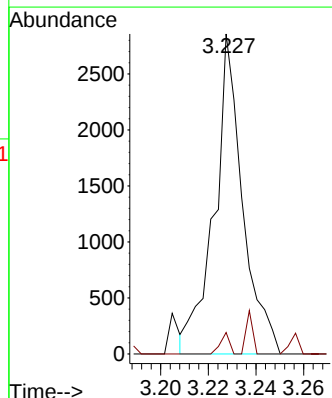
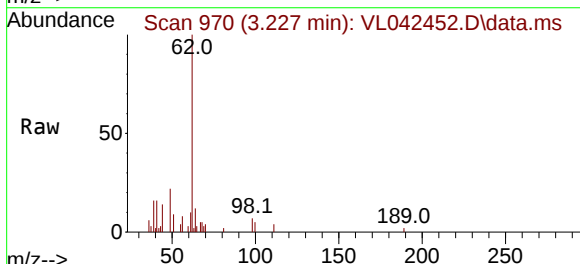
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-3242025DL

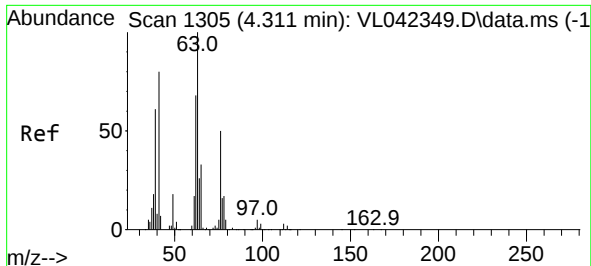
Tgt Ion: 43 Resp: 8758
Ion Ratio Lower Upper
43 100
72 24.0 18.2 27.2



#37
1,2-Dichloroethane
Concen: 0.119 ppbv
RT: 3.227 min Scan# 970
Delta R.T. 0.010 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 62 Resp: 2347
Ion Ratio Lower Upper
62 100
98 0.0 5.1 7.7#





#39

1,2-Dichloropropane

Concen: 7.262 ppbv

RT: 3.969 min Scan# 1119

Delta R.T. -0.343 min

Lab File: VL042452.D

Acq: 29 Apr 2025 18:09

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-2-3242025DL

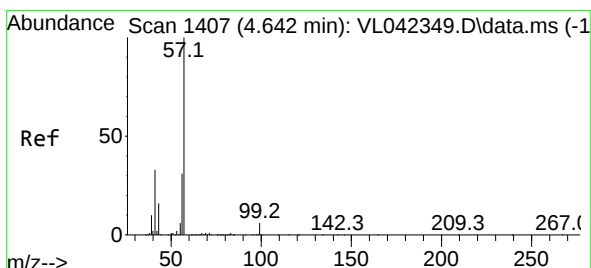
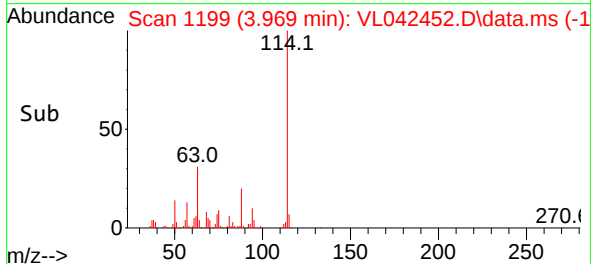
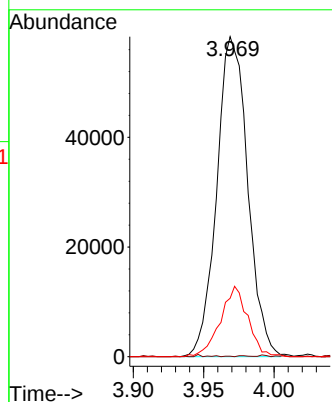
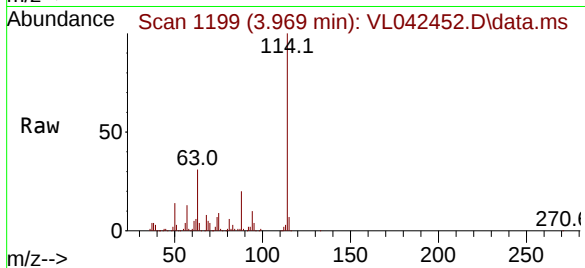
Tgt Ion: 63 Resp: 89205

Ion Ratio Lower Upper

63 100

41 0.2 64.2 96.2#

62 18.3 54.3 81.5#



#44

2,2,4-Trimethylpentane

Concen: 0.039 ppbv

RT: 4.655 min Scan# 1411

Delta R.T. 0.013 min

Lab File: VL042452.D

Acq: 29 Apr 2025 18:09

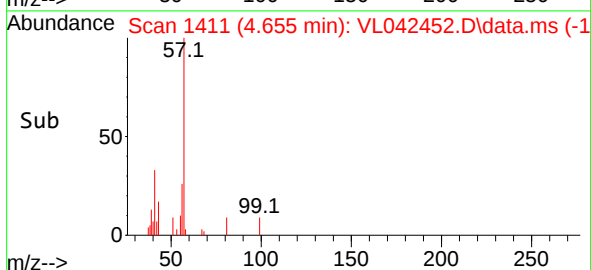
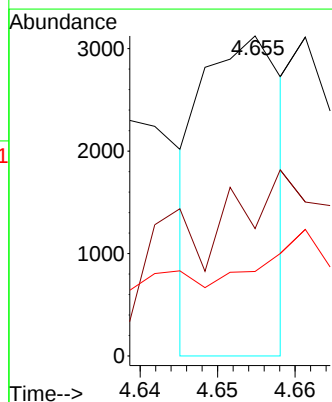
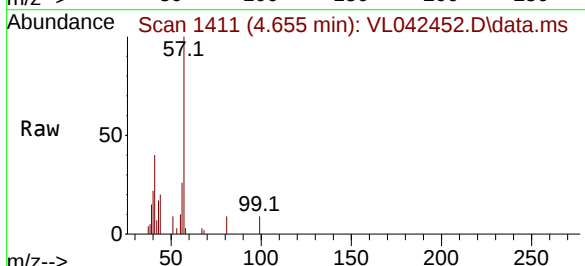
Tgt Ion: 57 Resp: 2244

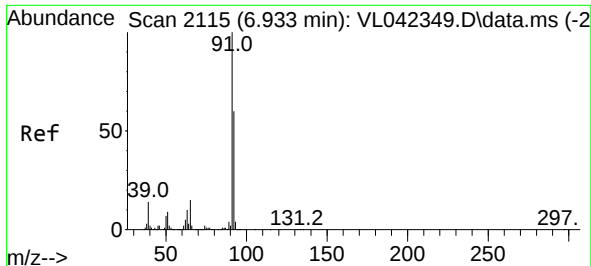
Ion Ratio Lower Upper

57 100

41 169.2 27.2 40.8#

56 0.0 25.7 38.5#

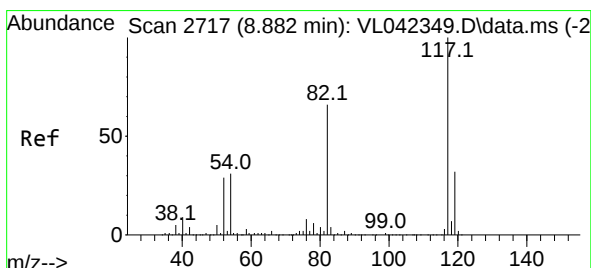
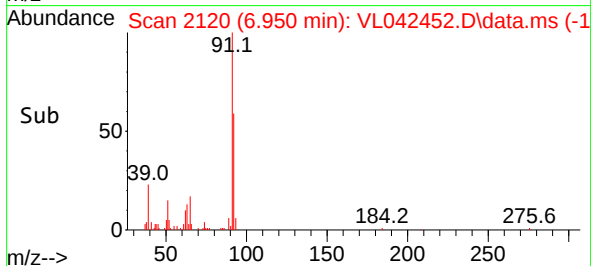
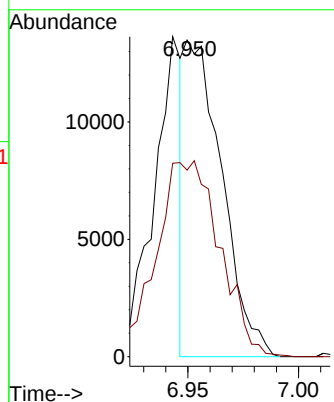
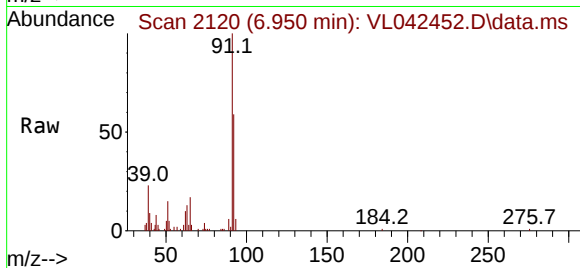




#53
Toluene
Concen: 0.398 ppbv
RT: 6.950 min Scan# 2115
Delta R.T. 0.017 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

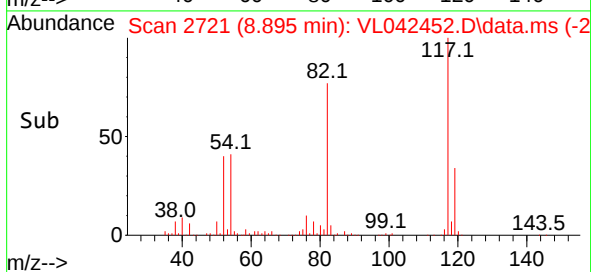
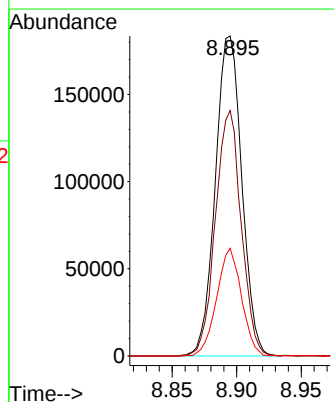
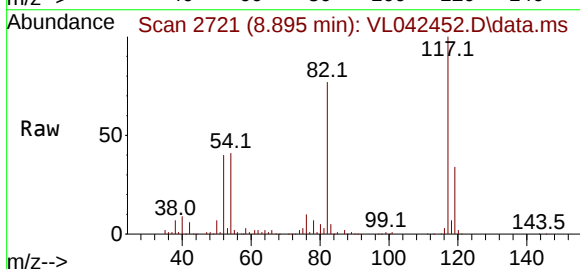
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-3242025DL

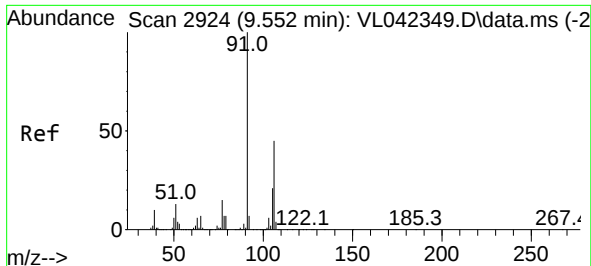
Tgt Ion: 91 Resp: 15746
Ion Ratio Lower Upper
91 100
92 106.4 48.2 72.4#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 2721
Delta R.T. 0.013 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 117 Resp: 261578
Ion Ratio Lower Upper
117 100
82 74.7 57.8 86.6
119 31.6 25.2 37.8





#59

m/p-Xylene

Concen: 0.037 ppbv

RT: 9.565 min Scan# 2924

Delta R.T. 0.013 min

Lab File: VL042452.D

Acq: 29 Apr 2025 18:09

Instrument :

MSVOA_L

ClientSampleId :

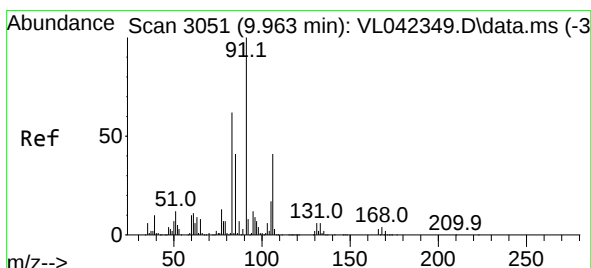
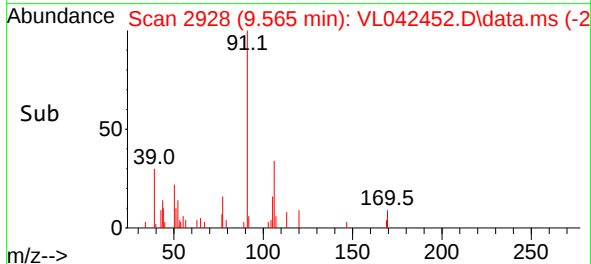
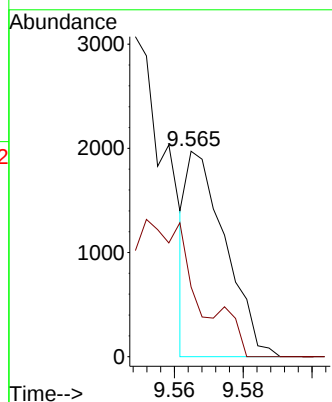
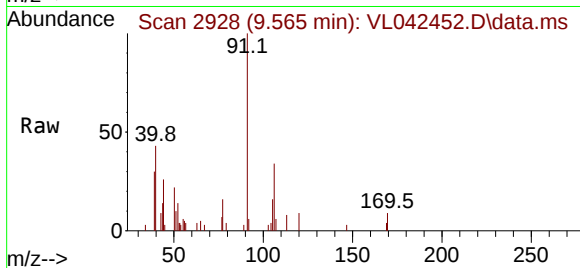
IA-B2-2-3242025DL

Tgt Ion: 91 Resp: 1536

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#



#60

o-Xylene

Concen: 0.065 ppbv

RT: 9.976 min Scan# 3055

Delta R.T. 0.013 min

Lab File: VL042452.D

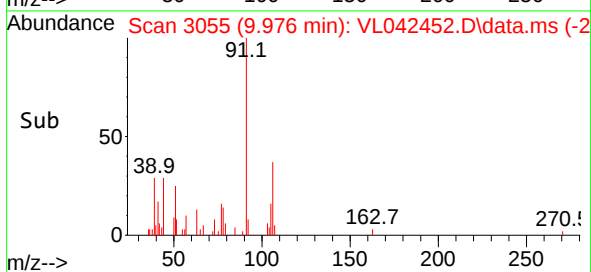
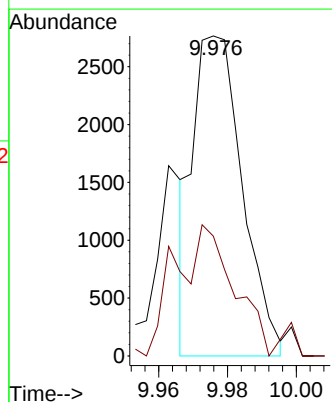
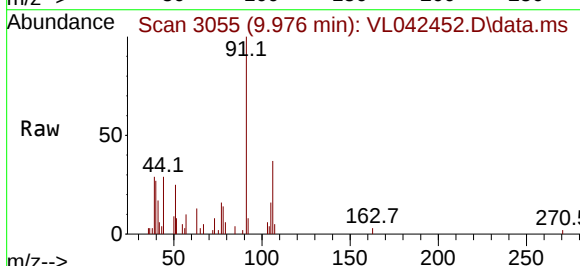
Acq: 29 Apr 2025 18:09

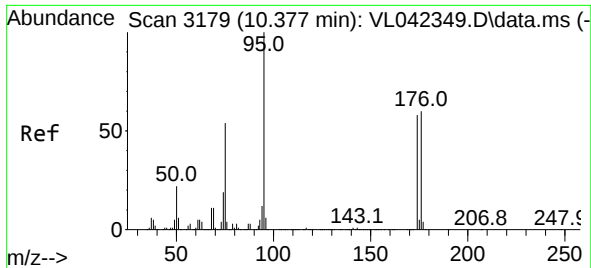
Tgt Ion: 91 Resp: 2743

Ion Ratio Lower Upper

91 100

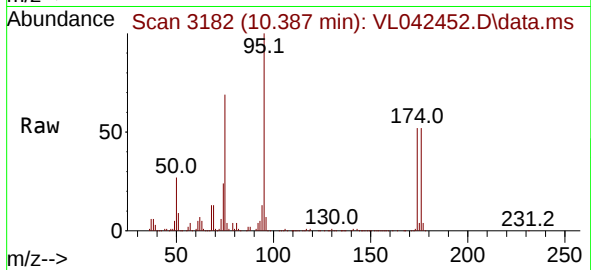
106 52.1 21.1 63.4





#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.260 ppbv
 RT: 10.387 min Scan# 3179
 Delta R.T. 0.010 min
 Lab File: VL042452.D
 Acq: 29 Apr 2025 18:09

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-2-3242025DL



Tgt Ion: 95 Resp: 242040
 Ion Ratio Lower Upper
 95 100
 174 51.1 48.5 72.7
 175 3.5 3.7 5.5#

