

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042653.D
 Acq On : 19 Jun 2025 13:37
 Operator : SY/MD
 Sample : Q2369-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Jun 20 01:37:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	112561	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	304867	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.901	117	266456	10.000	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	204937	10.260	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.600%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.505	85	6518	0.471	ppbv	89
3) Chlorodifluoromethane	1.473	51	24548	1.288	ppbv #	76
4) Chloromethane	1.538	50	5074	0.926	ppbv	92
6) Bromomethane	1.677	94	205	0.075	ppbv #	5
7) Chloroethane	1.712	64	177	0.082	ppbv	99
9) Propene	1.489	41	23733	3.093	ppbv	97
10) Heptane	5.007	43	30080	1.391	ppbv	98
11) Trichlorofluoromethane	1.887	101	3078	0.239	ppbv	84
12) 1,1,2-Trichlorotrifluo...	2.153	101	899	0.089	ppbv #	76
13) Ethanol	1.729	45	306726	335.435	ppbv	97
15) Acetone	1.845	43	344094	25.379	ppbv #	79
16) 1,3-Butadiene	1.609	39	7269	1.132	ppbv #	59
17) tert-Butyl alcohol	2.049	59	3901	0.276	ppbv #	72
19) Isopropyl Alcohol	1.894	45	69876	8.621	ppbv #	35
20) Methylene Chloride	2.072	84	3034	0.678	ppbv #	92
21) Allyl Chloride	2.088	41	9534	0.997	ppbv #	24
23) Vinyl Acetate	2.486	43	168452	9.191	ppbv #	46
25) Ethyl Acetate	2.839	43	65585	1.768	ppbv #	85
26) Hexane	2.839	57	78921	4.681	ppbv #	45
27) Carbon Disulfide	2.159	76	432	0.033	ppbv #	1
29) Chloroform	2.865	83	51116	2.331	ppbv	99
30) Cyclohexane	3.878	84	16792	1.201	ppbv	93
34) 2-Butanone	2.570	43	35781	1.646	ppbv	98
35) Carbon Tetrachloride	3.787	117	823	0.041	ppbv #	80
36) Benzene	3.674	78	56572	1.884	ppbv	97
37) 1,2-Dichloroethane	3.230	62	477	0.032	ppbv #	78
39) 1,2-Dichloropropane	3.978	63	75866	6.833	ppbv #	23
41) Tetrahydrofuran	3.078	42	3888	0.306	ppbv	94
42) Bromodichloromethane	4.515	83	2317	0.109	ppbv #	63
44) 2,2,4-Trimethylpentane	4.664	57	244291	4.757	ppbv	95
51) 2-Hexanone	7.477	43	1687	0.071	ppbv #	28
52) Tetrachloroethene	8.247	164	2721	0.243	ppbv #	86
53) Toluene	6.962	91	252517	7.278	ppbv	99
58) Ethyl Benzene	9.373	91	35314	0.781	ppbv	91
59) m/p-Xylene	9.552	91	77491	2.179	ppbv #	79
60) o-Xylene	9.982	91	38319	1.080	ppbv	98
61) Styrene	9.885	104	4995	0.298	ppbv	96
62) Isopropylbenzene	10.555	105	2851	0.054	ppbv	99
64) n-propylbenzene	11.008	120	2550	0.182	ppbv	85
65) tert-Butylbenzene	11.552	119	6394	0.134	ppbv #	59
69) p-Isopropyltoluene	11.940	119	1974	0.035	ppbv #	83
70) n-Butylbenzene	12.299	91	1677	0.030	ppbv #	75
72) 4-Ethyltoluene	11.137	105	15265	0.345	ppbv #	55

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Acq On : 19 Jun 2025 13:37
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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

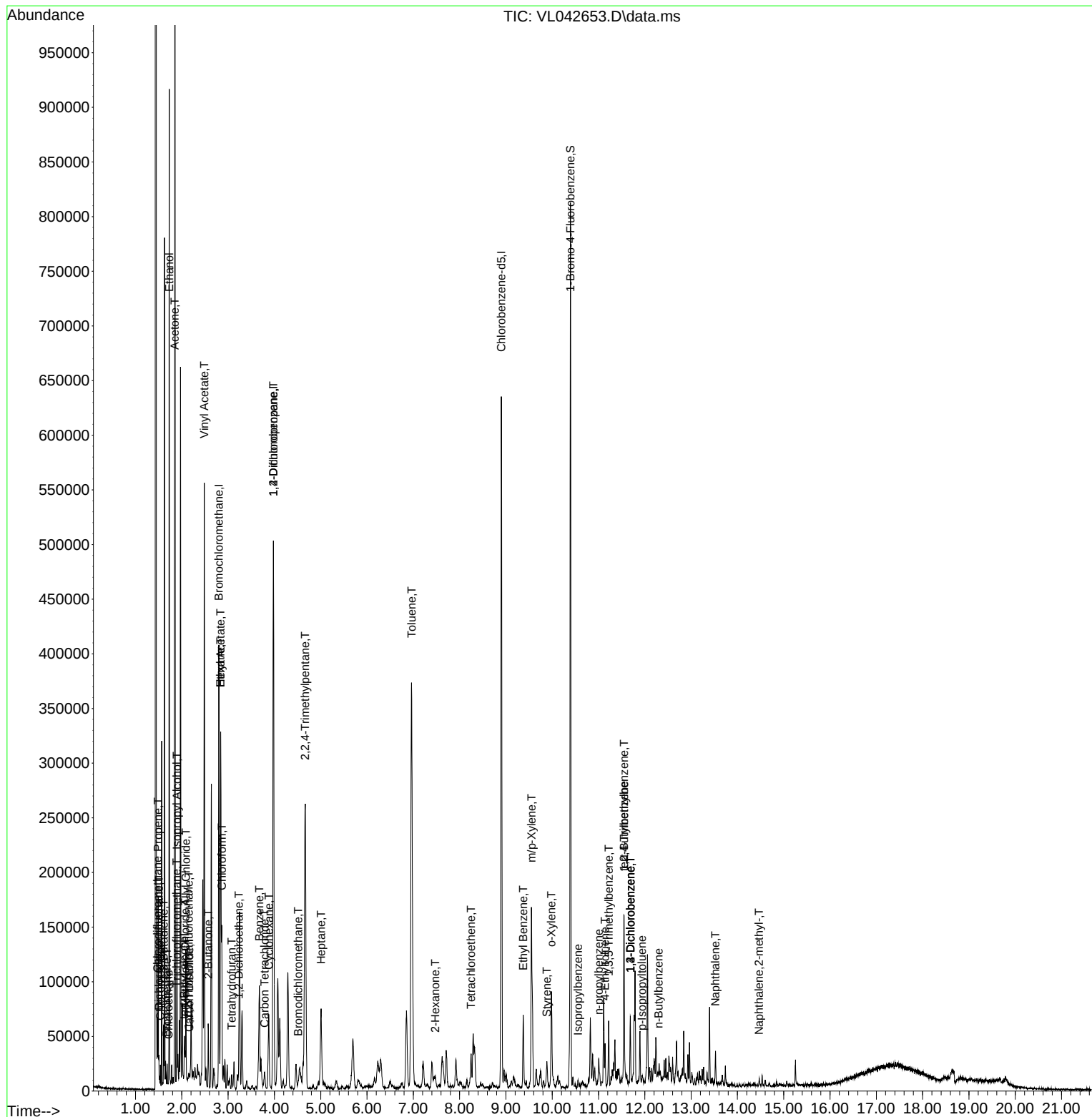
Instrument :
MSVOA_L
ClientSampleId :
IA1

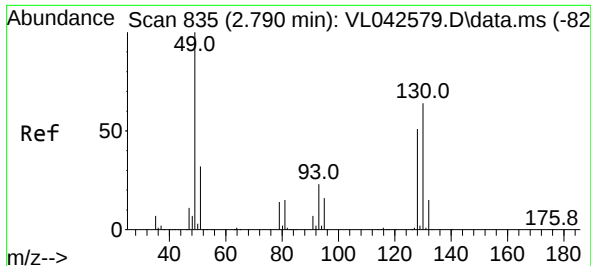
Quant Time: Jun 20 01:37:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73) 1,3,5-Trimethylbenzene	11.218	105	14817	0.405	ppbv	91
74) 1,2,4-Trimethylbenzene	11.552	105	53598	1.319	ppbv #	64
75) 1,3-Dichlorobenzene	11.688	146	14469	0.567	ppbv	96
76) 1,4-Dichlorobenzene	11.688	146	14469	0.569	ppbv	94
77) 1,2-Dichlorobenzene	11.688	146	14469	0.584	ppbv	96
79) Naphthalene	13.526	128	13368	0.349	ppbv	95
80) Naphthalene,2-methyl-	14.468	142	2172	0.126	ppbv #	85

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

Quant Time: Jun 20 01:37:27 2025
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

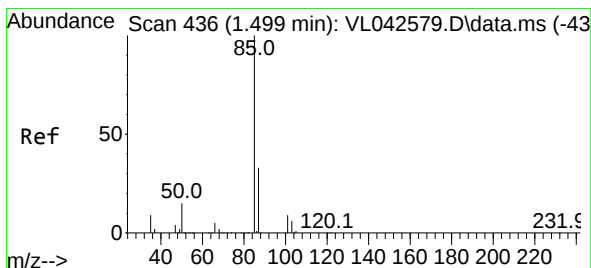
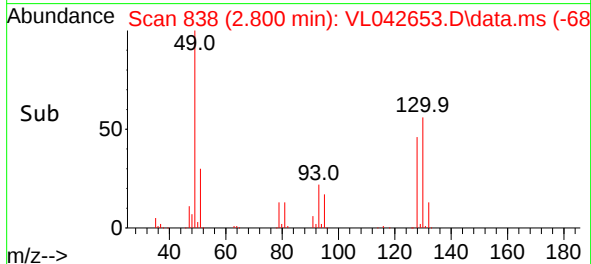
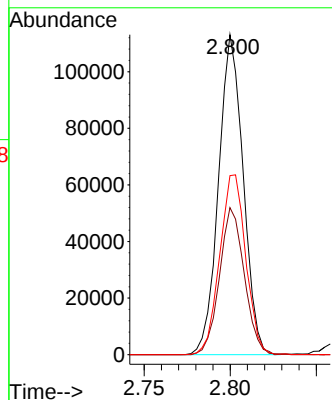
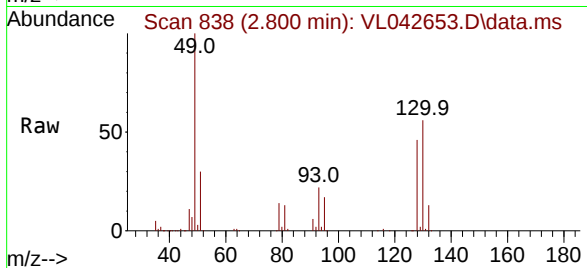




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 835
Delta R.T. 0.010 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

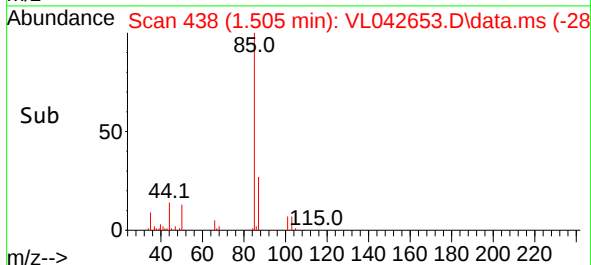
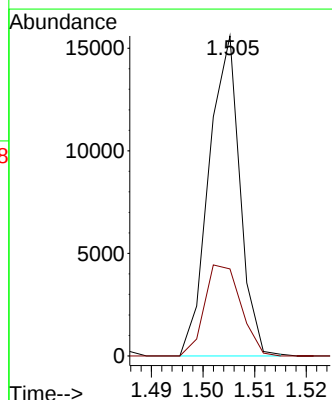
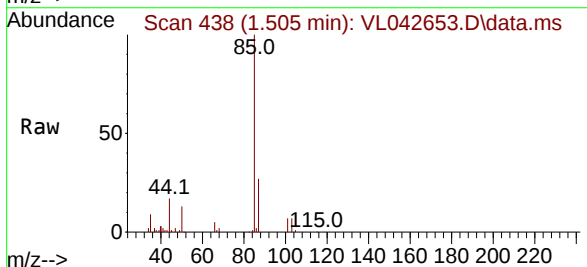
Instrument :
MSVOA_L
ClientSampleId :
IA1

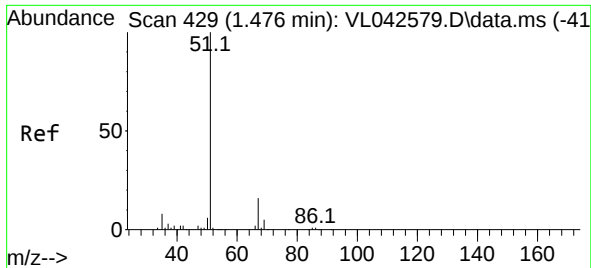
Tgt Ion: 49 Resp: 112561
Ion Ratio Lower Upper
49 100
128 46.2 24.2 72.6
130 59.5 30.4 91.2



#2
Dichlorodifluoromethane
Concen: 0.471 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.006 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

Tgt Ion: 85 Resp: 6518
Ion Ratio Lower Upper
85 100
87 27.2 26.6 39.8

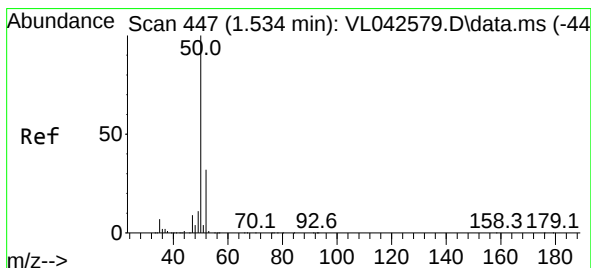
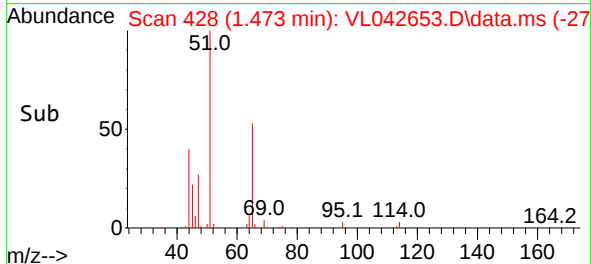
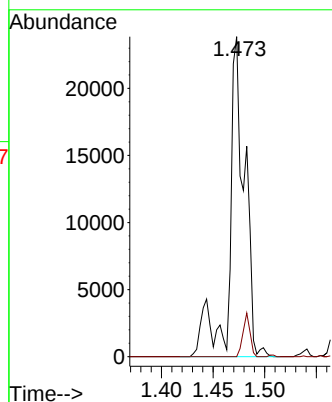
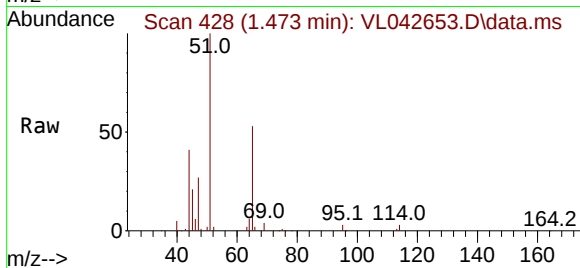




#3
Chlorodifluoromethane
Concen: 1.288 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

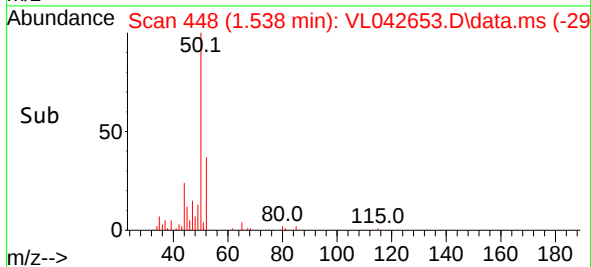
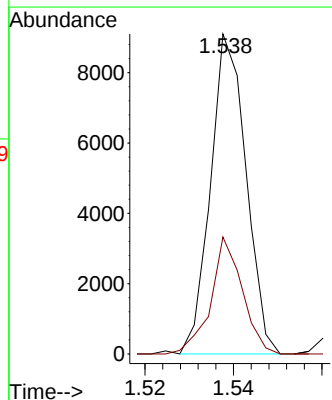
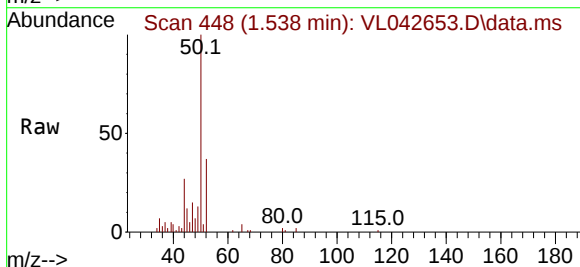
Instrument :
MSVOA_L
ClientSampleId :
IA1

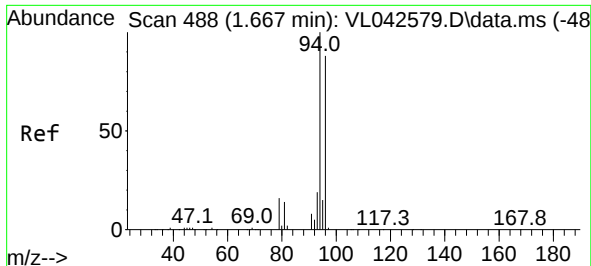
Tgt Ion: 51 Resp: 24548
Ion Ratio Lower Upper
51 100
67 6.4 13.4 20.2#



#4
Chloromethane
Concen: 0.926 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

Tgt Ion: 50 Resp: 5074
Ion Ratio Lower Upper
50 100
52 36.5 25.8 38.6

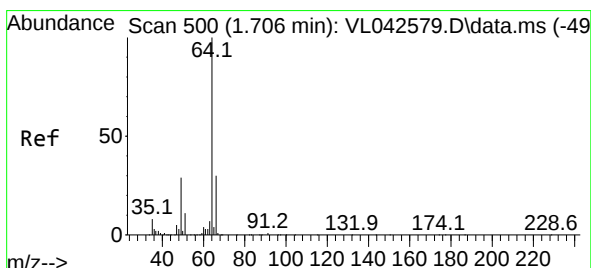
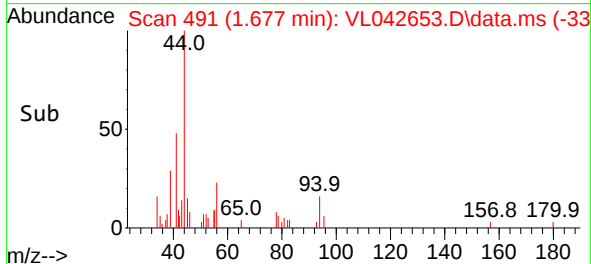
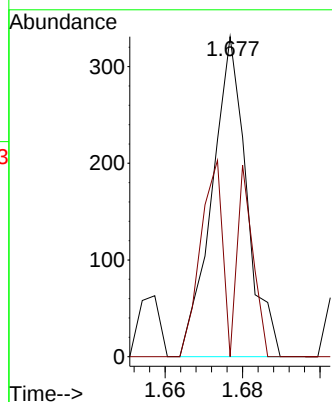
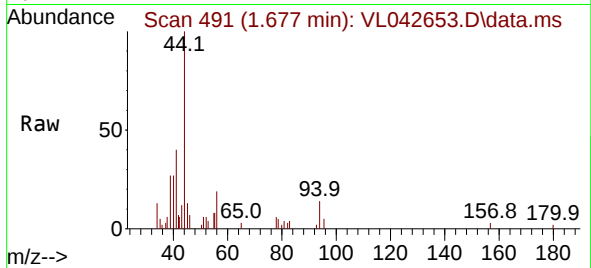




#6
 Bromomethane
 Concen: 0.075 ppbv
 RT: 1.677 min Scan# 491
 Delta R.T. 0.010 min
 Lab File: VL042653.D
 Acq: 19 Jun 2025 13:37

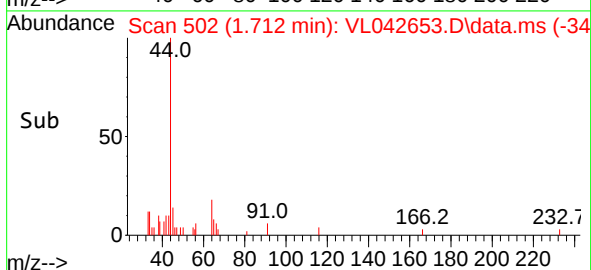
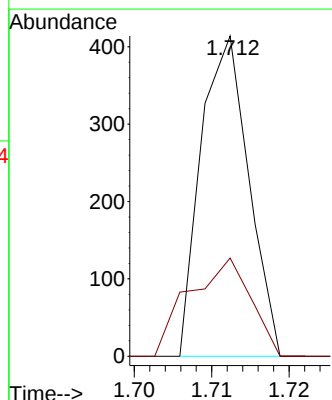
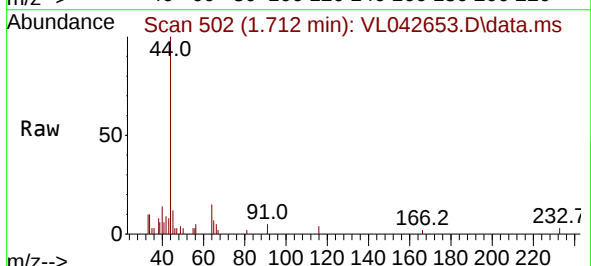
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

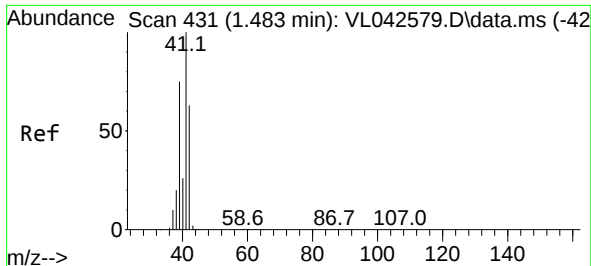
Tgt Ion: 94 Resp: 205
 Ion Ratio Lower Upper
 94 100
 96 0.0 70.7 106.1#



#7
 Chloroethane
 Concen: 0.082 ppbv
 RT: 1.712 min Scan# 502
 Delta R.T. 0.006 min
 Lab File: VL042653.D
 Acq: 19 Jun 2025 13:37

Tgt Ion: 64 Resp: 177
 Ion Ratio Lower Upper
 64 100
 66 30.7 24.3 36.5





#9

Propene

Concen: 3.093 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042653.D

Acq: 19 Jun 2025 13:37

Instrument :

MSVOA_L

ClientSampleId :

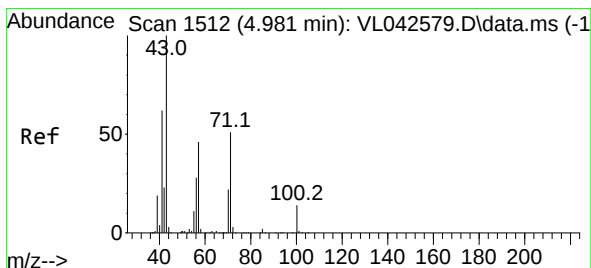
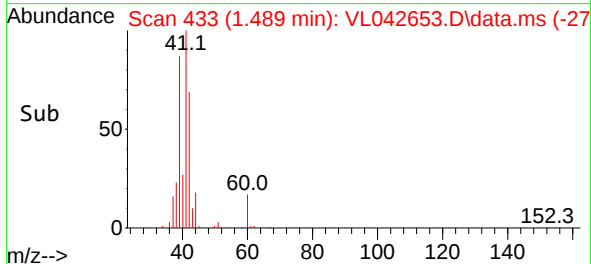
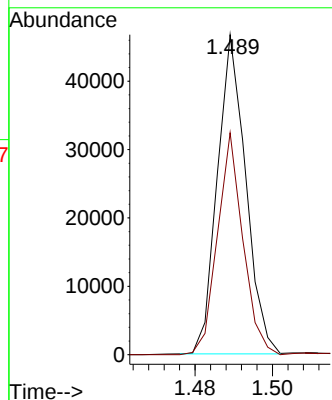
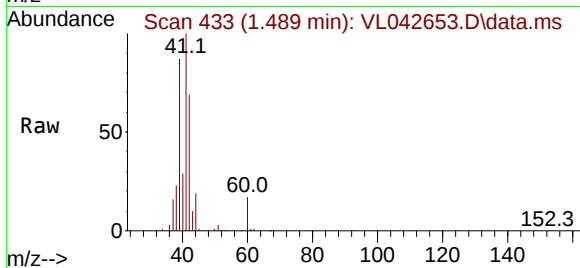
IA1

Tgt Ion: 41 Resp: 23733

Ion Ratio Lower Upper

41 100

42 63.9 53.3 79.9



#10

Heptane

Concen: 1.391 ppbv

RT: 5.007 min Scan# 1520

Delta R.T. 0.026 min

Lab File: VL042653.D

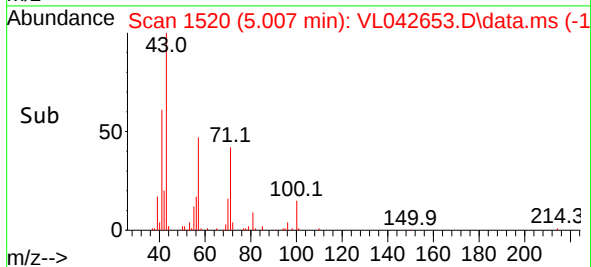
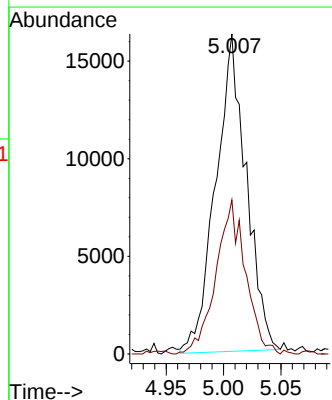
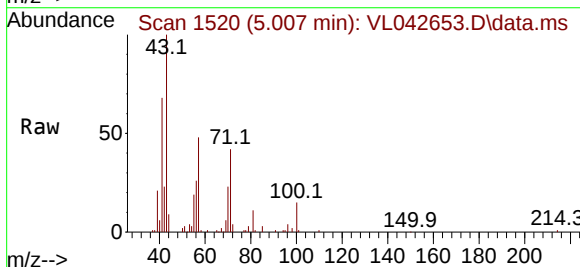
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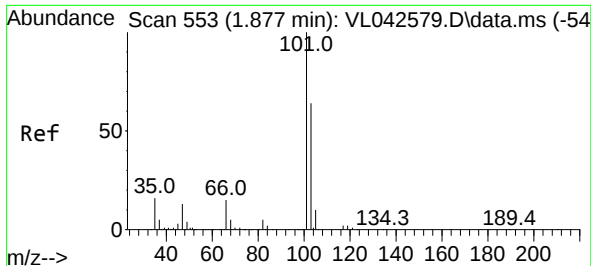
Tgt Ion: 43 Resp: 30080

Ion Ratio Lower Upper

43 100

57 47.6 38.9 58.3

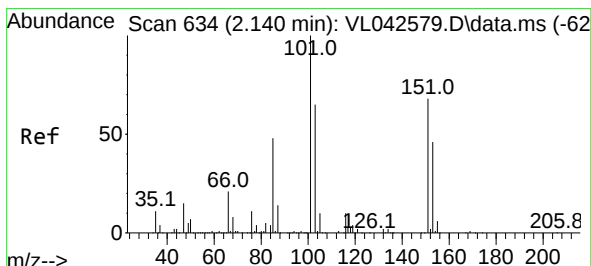
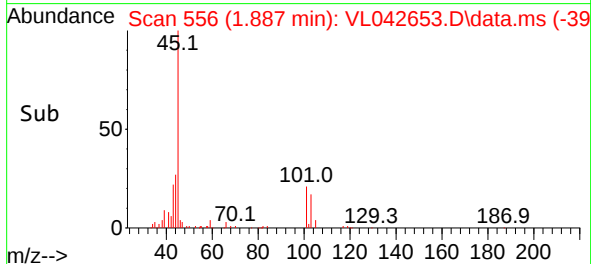
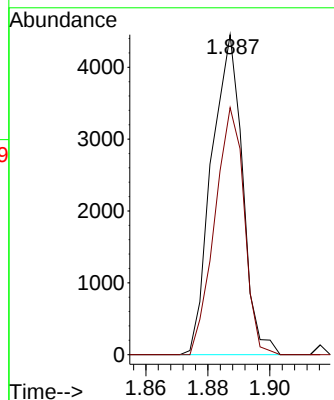
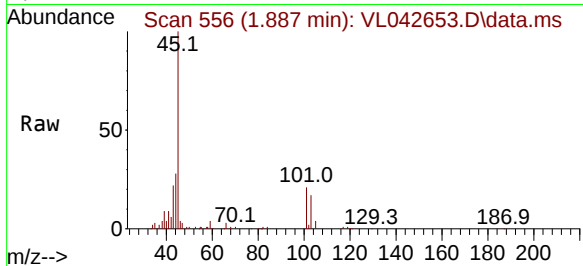




#11
 Trichlorofluoromethane
 Concen: 0.239 ppbv
 RT: 1.887 min Scan# 51
 Delta R.T. 0.010 min
 Lab File: VL042653.D
 Acq: 19 Jun 2025 13:37

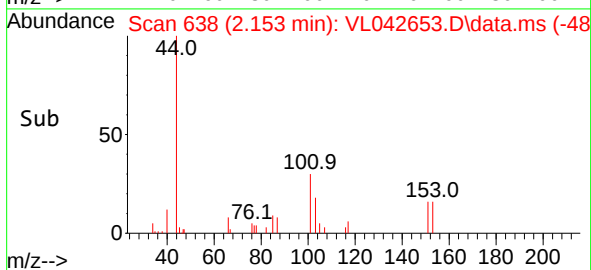
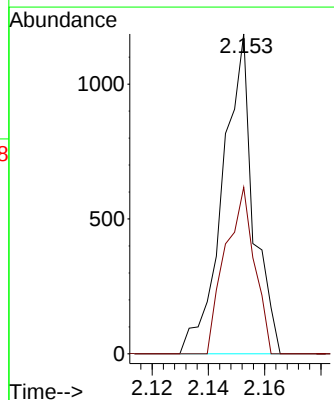
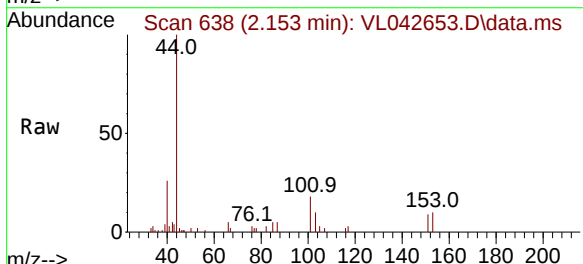
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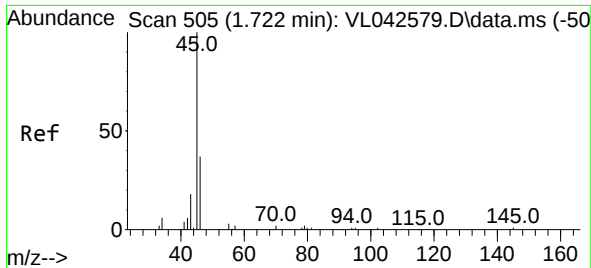
Tgt Ion:101 Resp: 3078
 Ion Ratio Lower Upper
 101 100
 103 77.2 51.5 77.3



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.089 ppbv
 RT: 2.153 min Scan# 638
 Delta R.T. 0.013 min
 Lab File: VL042653.D
 Acq: 19 Jun 2025 13:37

Tgt Ion:101 Resp: 899
 Ion Ratio Lower Upper
 101 100
 151 49.4 55.3 82.9#

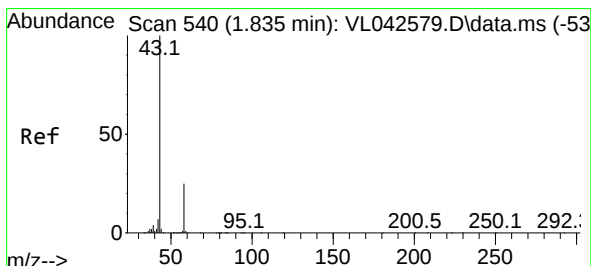
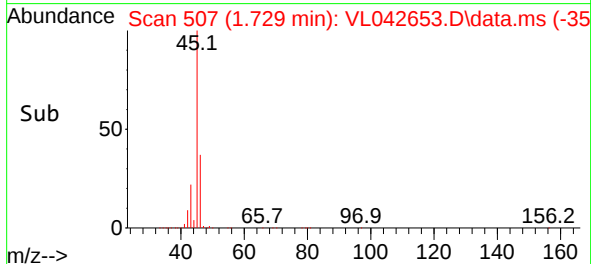
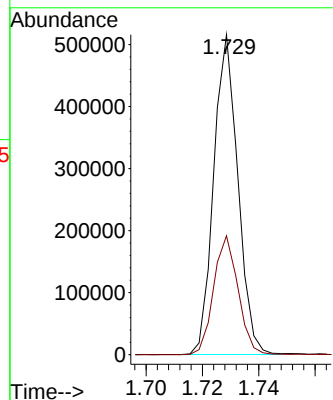
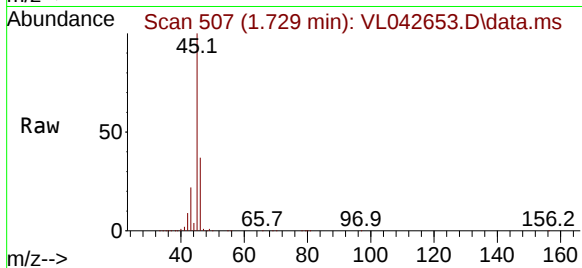




#13
Ethanol
Concen: 335.435 ppbv
RT: 1.729 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

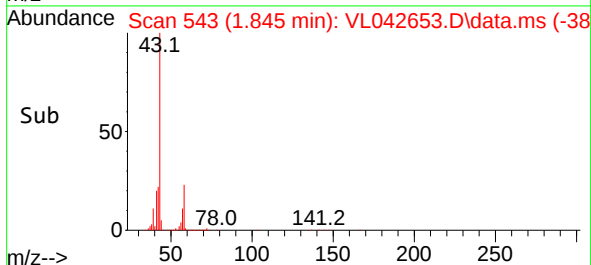
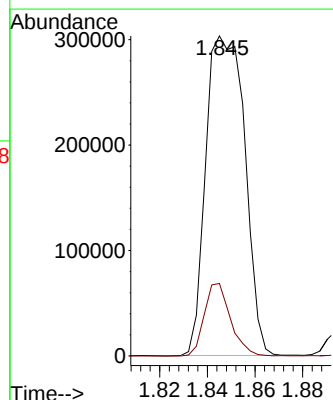
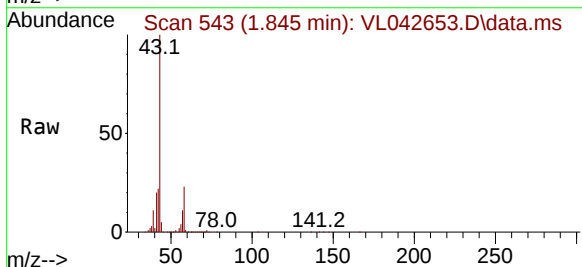
Instrument :
MSVOA_L
ClientSampleId :
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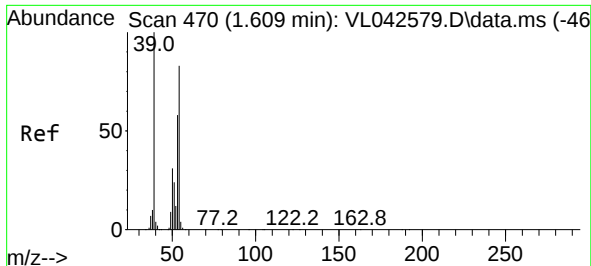
Tgt Ion: 45 Resp: 306726
Ion Ratio Lower Upper
45 100
46 38.0 14.5 58.1



#15
Acetone
Concen: 25.379 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.010 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

Tgt Ion: 43 Resp: 344094
Ion Ratio Lower Upper
43 100
58 15.4 21.0 31.4#

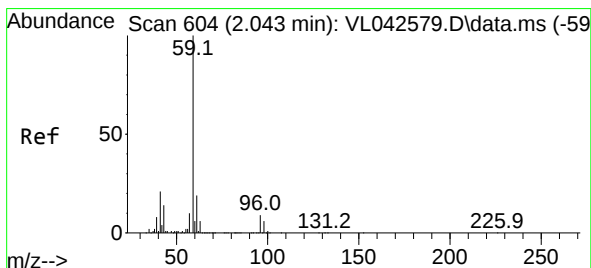
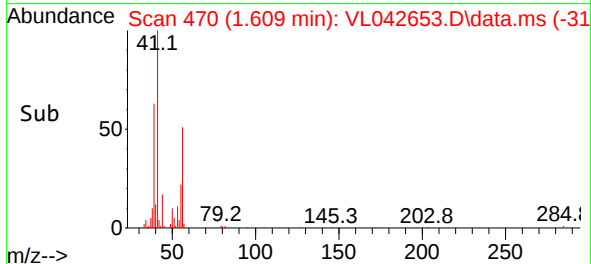
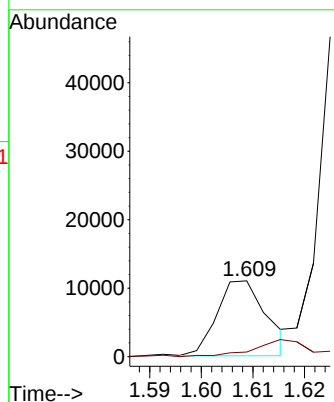
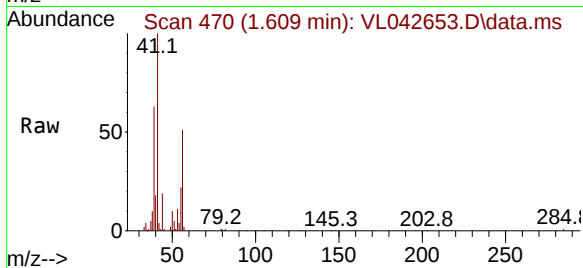




#16
1,3-Butadiene
Concen: 1.132 ppbv
RT: 1.609 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

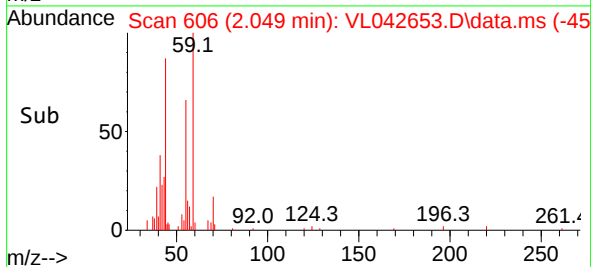
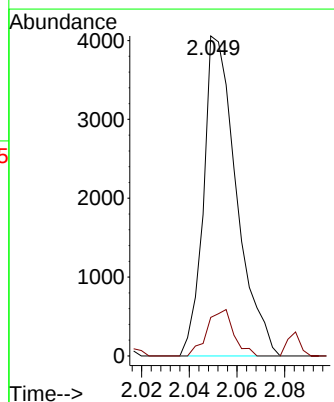
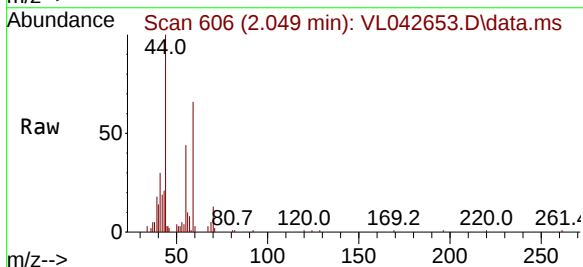
Instrument :
MSVOA_L
ClientSampleId :
IA1

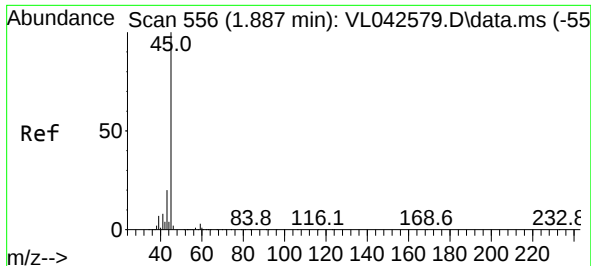
Tgt Ion: 39 Resp: 7269
Ion Ratio Lower Upper
39 100
54 38.2 57.9 86.9#



#17
tert-Butyl alcohol
Concen: 0.276 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.006 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

Tgt Ion: 59 Resp: 3901
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

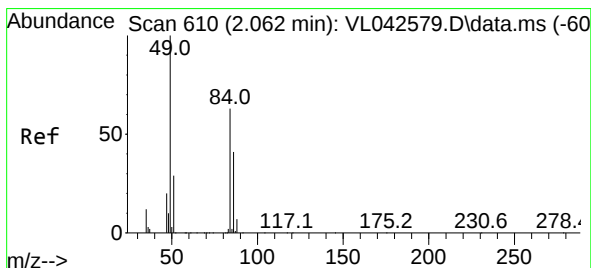
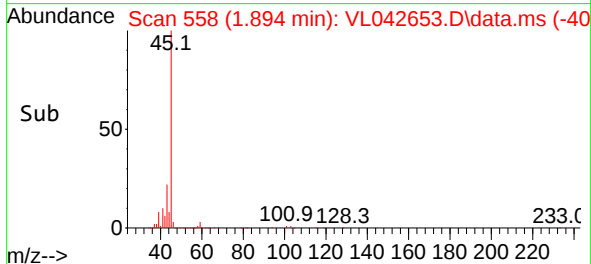
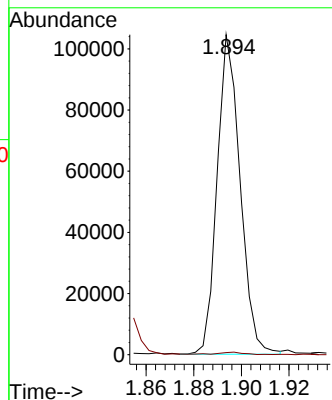
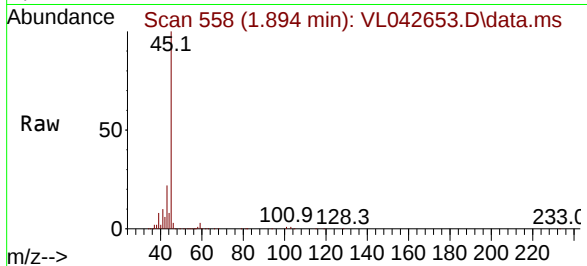




#19
Isopropyl Alcohol
Concen: 8.621 ppbv
RT: 1.894 min Scan# 51
Delta R.T. 0.006 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

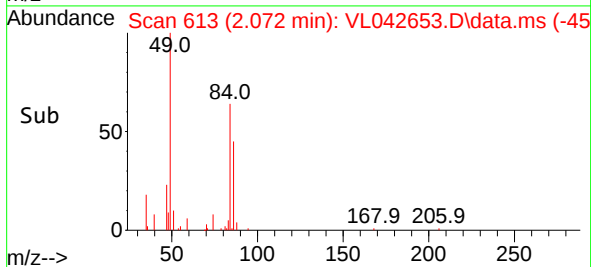
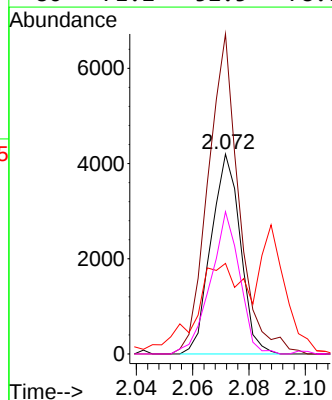
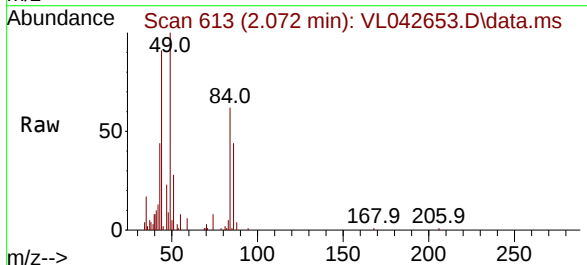
Instrument :
MSVOA_1
ClientSampleId :
IA1

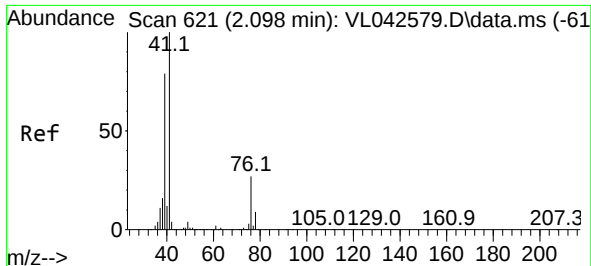
Tgt Ion: 45 Resp: 69876
Ion Ratio Lower Upper
45 100
58 75.6 29.4 44.2#



#20
Methylene Chloride
Concen: 0.678 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.010 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

Tgt Ion: 84 Resp: 3034
Ion Ratio Lower Upper
84 100
49 157.7 128.8 193.2
51 30.3 38.6 57.8#
86 71.2 52.5 78.7

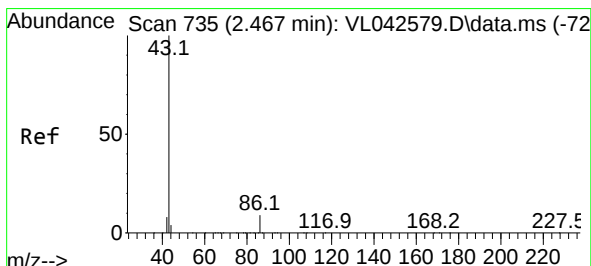
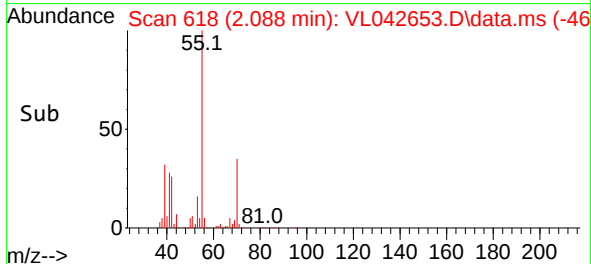
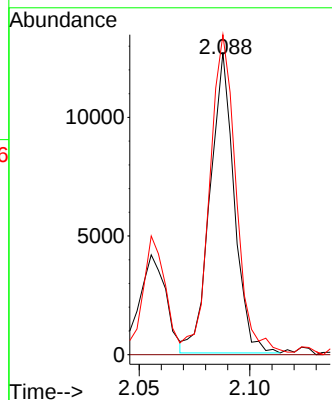
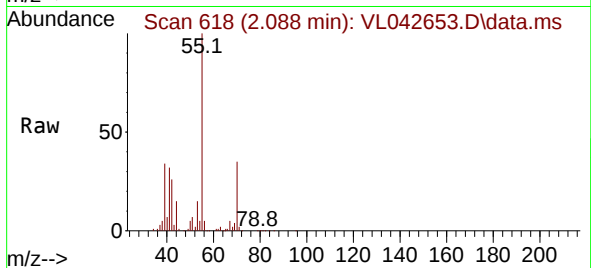




#21
 Allyl Chloride
 Concen: 0.997 ppbv
 RT: 2.088 min Scan# 61
 Delta R.T. -0.010 min
 Lab File: VL042653.D
 Acq: 19 Jun 2025 13:37

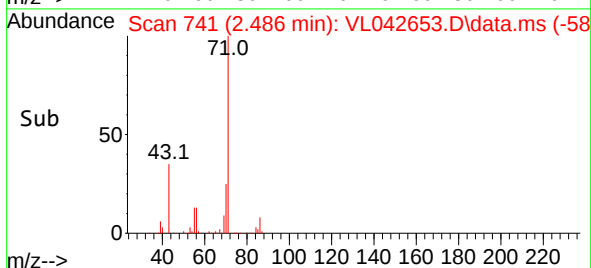
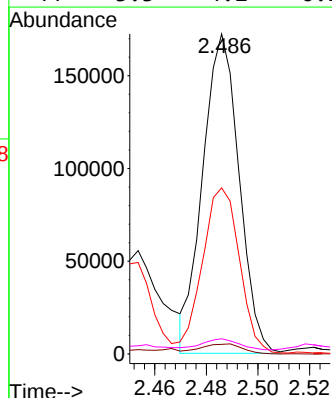
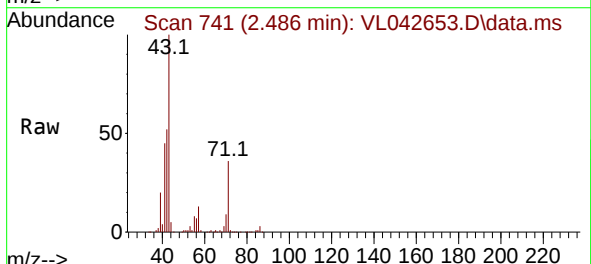
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

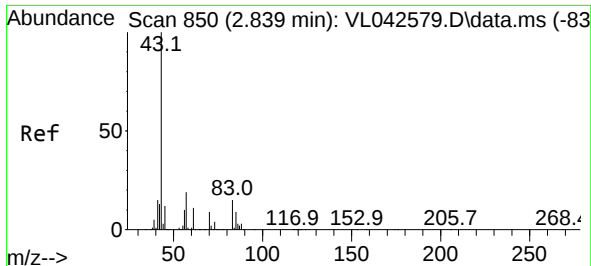
Tgt Ion: 41 Resp: 9534
 Ion Ratio Lower Upper
 41 100
 76 4.5 21.2 31.8#
 39 151.6 60.9 91.3#



#23
 Vinyl Acetate
 Concen: 9.191 ppbv
 RT: 2.486 min Scan# 741
 Delta R.T. 0.019 min
 Lab File: VL042653.D
 Acq: 19 Jun 2025 13:37

Tgt Ion: 43 Resp: 168452
 Ion Ratio Lower Upper
 43 100
 86 3.0 6.6 9.8#
 42 51.9 7.0 10.4#
 44 3.3 4.2 6.2#

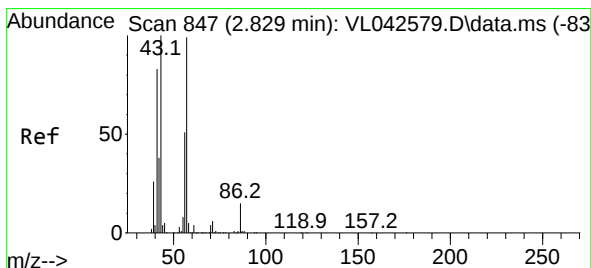
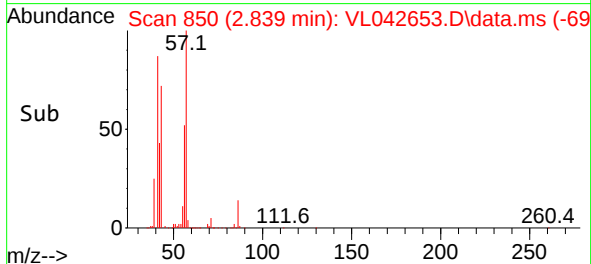
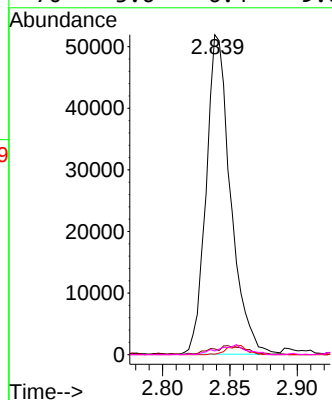
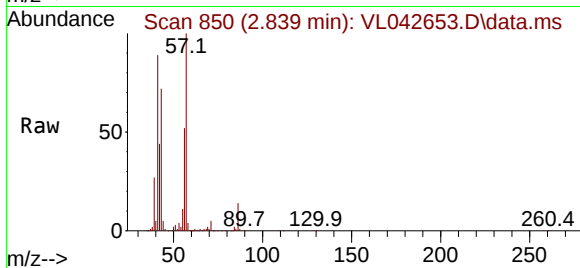




#25
Ethyl Acetate
Concen: 1.768 ppbv
RT: 2.839 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

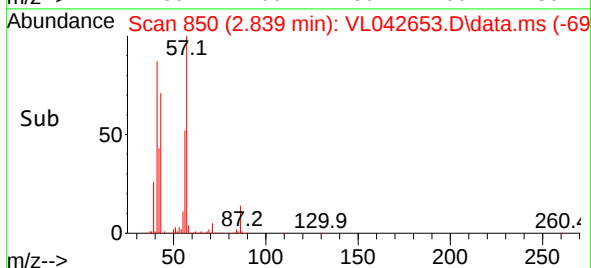
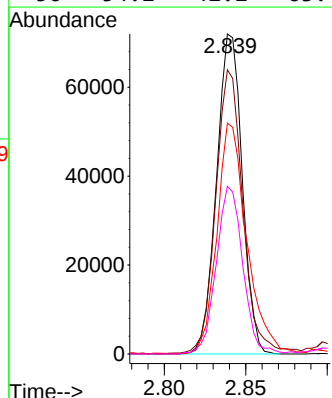
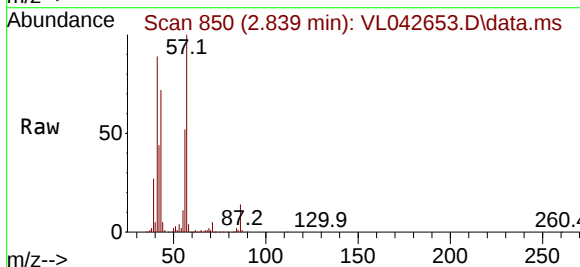
Instrument :
MSVOA_L
ClientSampleId :
IA1

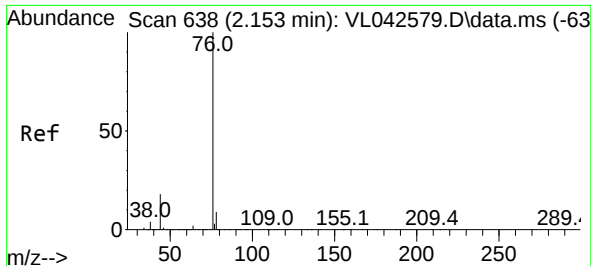
Tgt Ion:	43	Resp:	65585
Ion	Ratio	Lower	Upper
43	100		
45	4.4	8.2	12.2#
61	2.4	7.1	10.7#
70	3.6	6.4	9.6#



#26
Hexane
Concen: 4.681 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.010 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

Tgt Ion:	57	Resp:	78921
Ion	Ratio	Lower	Upper
57	100		
41	93.5	70.6	106.0
43	85.8	181.1	271.7#
56	54.2	42.2	63.4

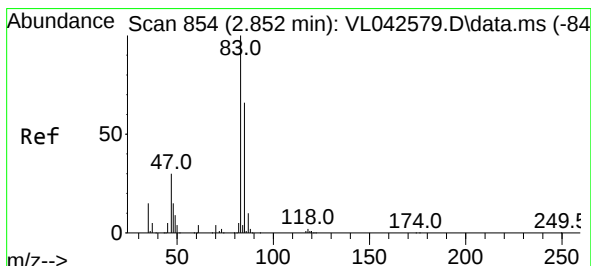
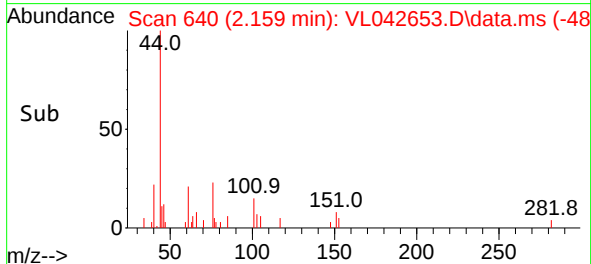
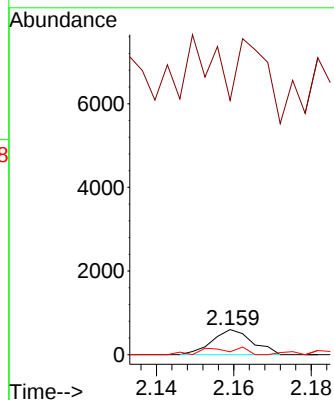
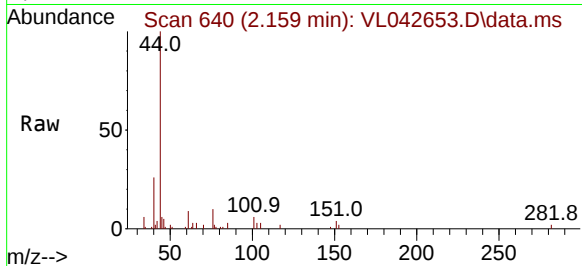




#27
Carbon Disulfide
Concen: 0.033 ppbv
RT: 2.159 min Scan# 640
Delta R.T. 0.006 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

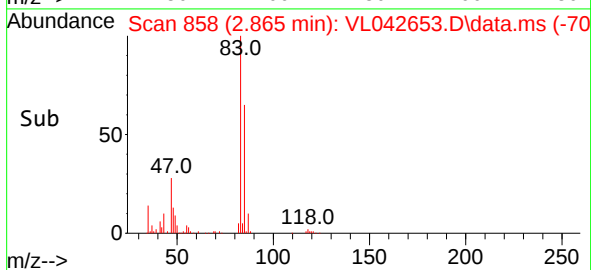
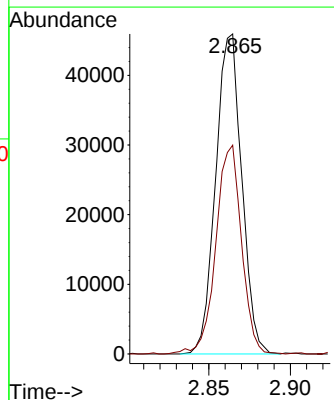
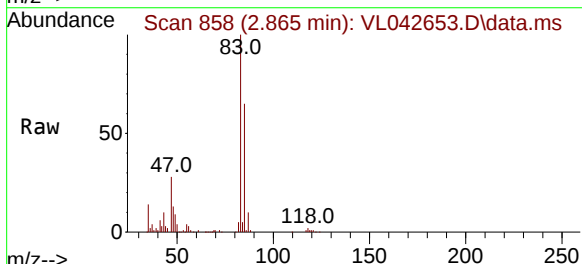
Instrument :
MSVOA_L
ClientSampleId :
IA1

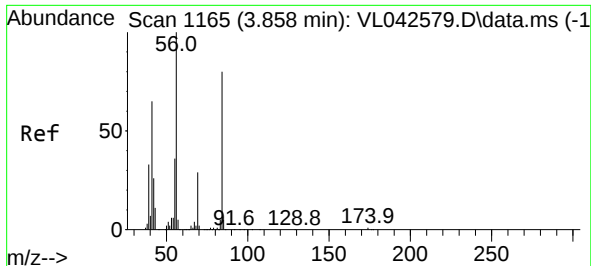
Tgt Ion: 76 Resp: 432
Ion Ratio Lower Upper
76 100
44 4929.4 21.3 31.9#
78 46.5 9.4 14.0#



#29
Chloroform
Concen: 2.331 ppbv
RT: 2.865 min Scan# 858
Delta R.T. 0.013 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

Tgt Ion: 83 Resp: 51116
Ion Ratio Lower Upper
83 100
85 65.0 52.8 79.2

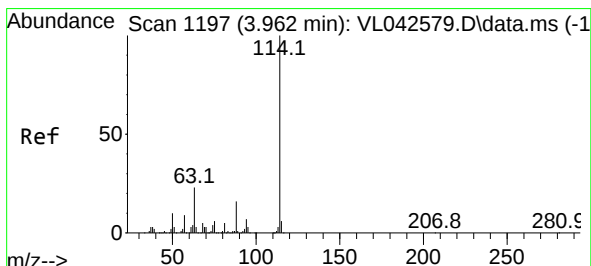
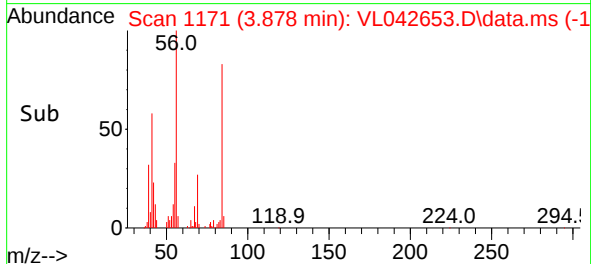
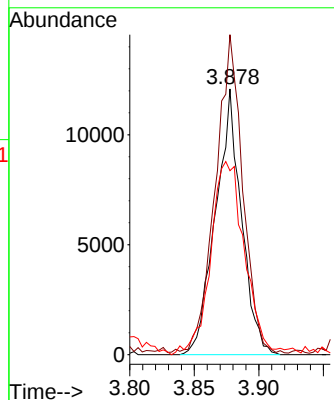
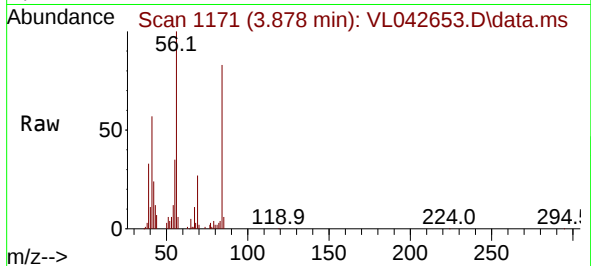




#30
Cyclohexane
Concen: 1.201 ppbv
RT: 3.878 min Scan# 1165
Delta R.T. 0.019 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

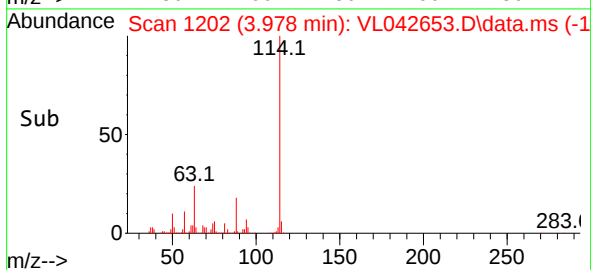
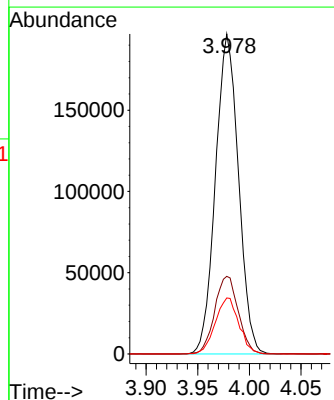
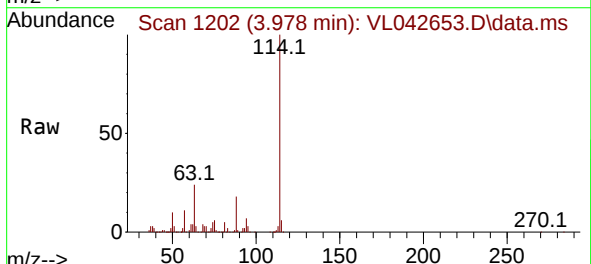
Instrument :
MSVOA_L
ClientSampleId :
IA1

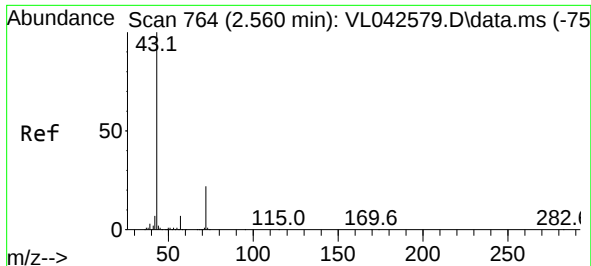
Tgt Ion: 84 Resp: 16792
Ion Ratio Lower Upper
84 100
56 127.4 103.7 155.5
41 93.9 65.1 97.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1202
Delta R.T. 0.016 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

Tgt Ion: 114 Resp: 304867
Ion Ratio Lower Upper
114 100
63 24.9 19.0 28.6
88 17.9 13.6 20.4

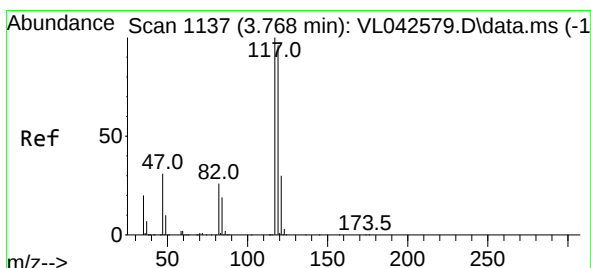
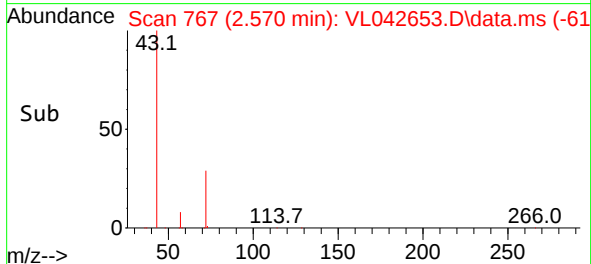
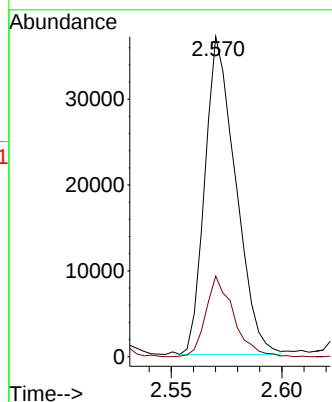
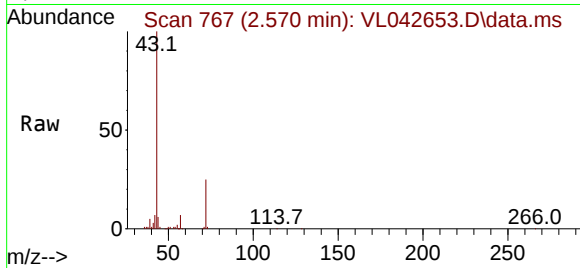




#34
2-Butanone
Concen: 1.646 ppbv
RT: 2.570 min Scan# 70
Delta R.T. 0.010 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

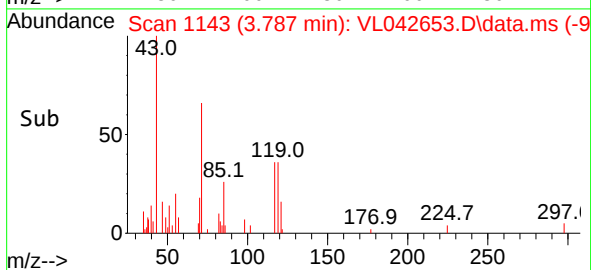
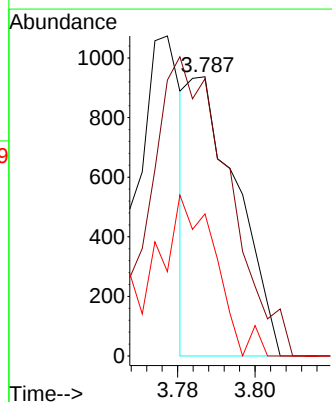
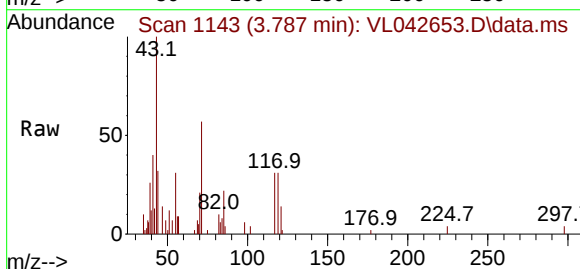
Instrument :
MSVOA_L
ClientSampleId :
IA1

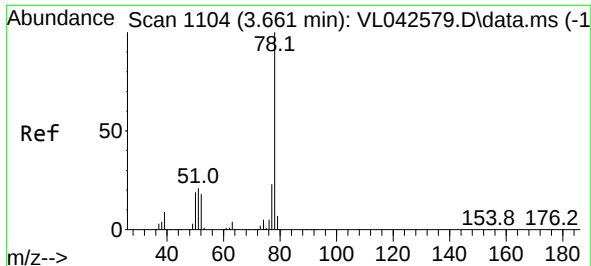
Tgt Ion: 43 Resp: 35781
Ion Ratio Lower Upper
43 100
72 22.9 17.7 26.5



#35
Carbon Tetrachloride
Concen: 0.041 ppbv
RT: 3.787 min Scan# 1143
Delta R.T. 0.019 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

Tgt Ion: 117 Resp: 823
Ion Ratio Lower Upper
117 100
119 82.4 76.8 115.2
121 50.9 24.3 36.5#

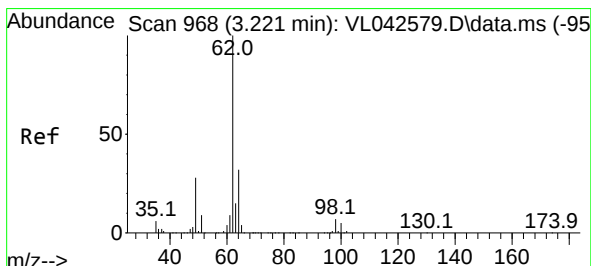
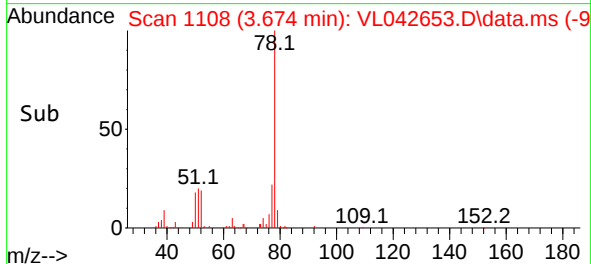
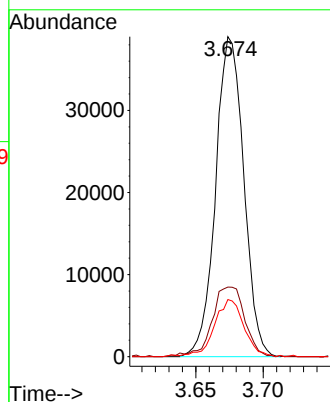
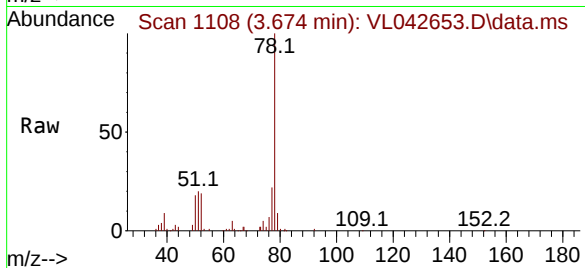




#36
Benzene
Concen: 1.884 ppbv
RT: 3.674 min Scan# 1108
Delta R.T. 0.013 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

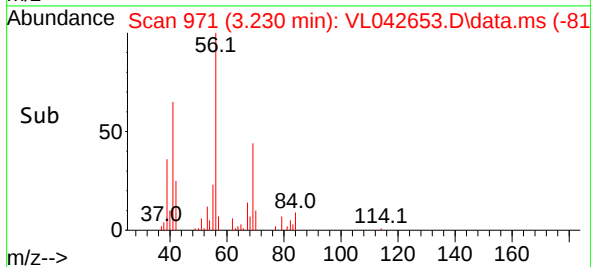
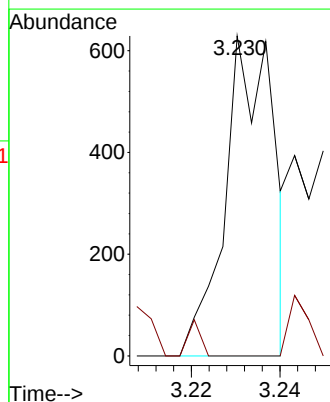
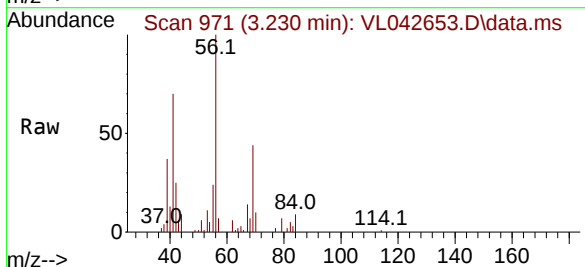
Instrument :
MSVOA_L
ClientSampleId :
IA1

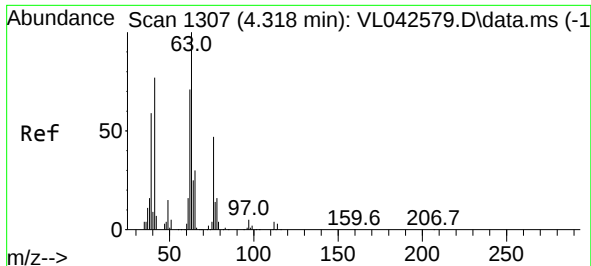
Tgt Ion: 78 Resp: 56572
Ion Ratio Lower Upper
78 100
77 21.4 18.2 27.2
50 17.5 15.2 22.8



#37
1,2-Dichloroethane
Concen: 0.032 ppbv
RT: 3.230 min Scan# 971
Delta R.T. 0.010 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

Tgt Ion: 62 Resp: 477
Ion Ratio Lower Upper
62 100
98 0.0 6.1 9.1#





#39

1,2-Dichloropropane

Concen: 6.833 ppbv

RT: 3.978 min Scan# 1

Delta R.T. -0.340 min

Lab File: VL042653.D

Acq: 19 Jun 2025 13:37

Instrument :

MSVOA_L

ClientSampleId :

IA1

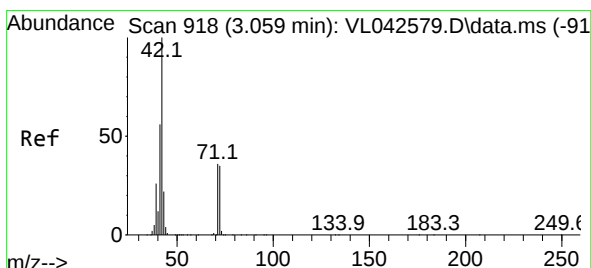
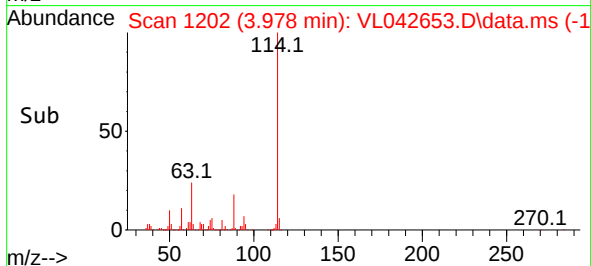
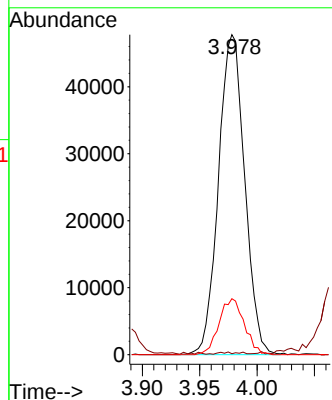
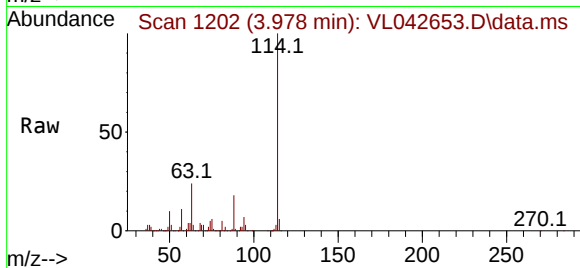
Tgt Ion: 63 Resp: 75866

Ion Ratio Lower Upper

63 100

41 0.1 61.8 92.6#

62 17.5 56.6 85.0#



#41

Tetrahydrofuran

Concen: 0.306 ppbv

RT: 3.078 min Scan# 924

Delta R.T. 0.019 min

Lab File: VL042653.D

Acq: 19 Jun 2025 13:37

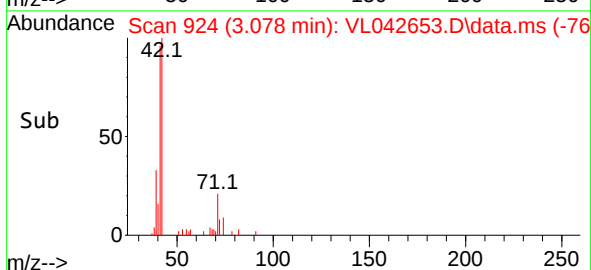
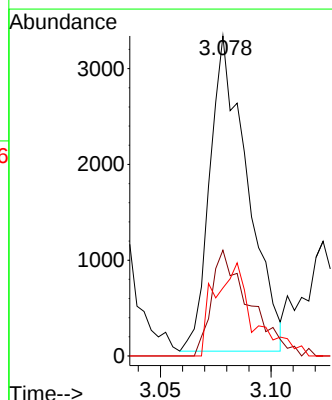
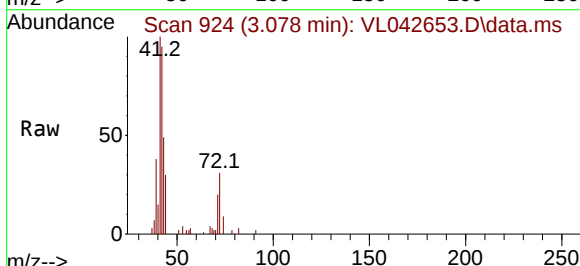
Tgt Ion: 42 Resp: 3888

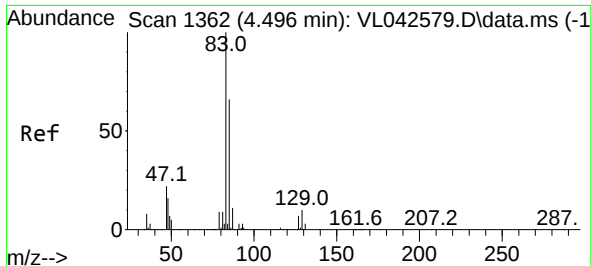
Ion Ratio Lower Upper

42 100

72 34.3 28.9 43.3

71 30.6 28.5 42.7

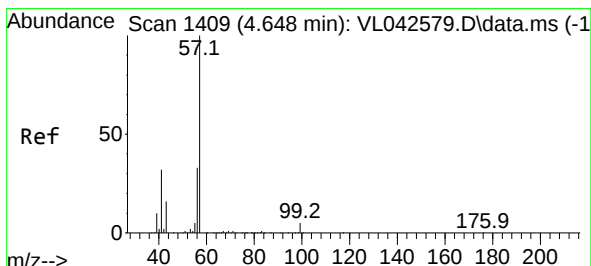
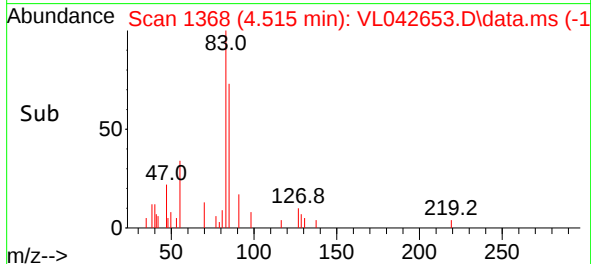
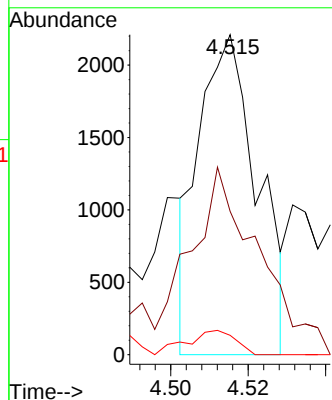
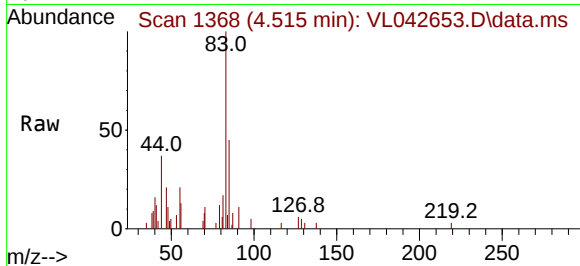




#42
Bromodichloromethane
Concen: 0.109 ppbv
RT: 4.515 min Scan# 11
Delta R.T. 0.019 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

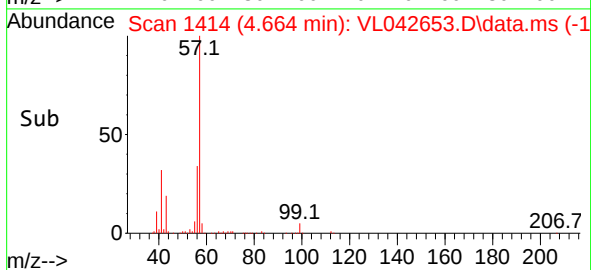
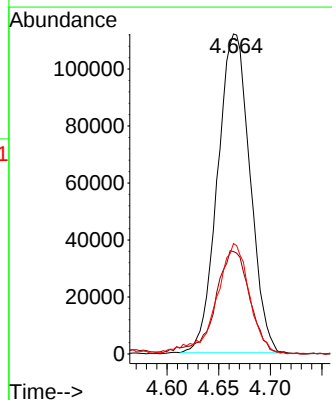
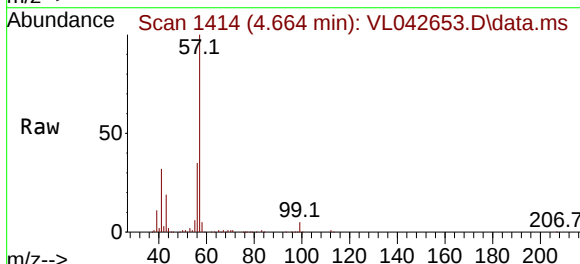
Instrument :
MSVOA_L
ClientSampleId :
IA1

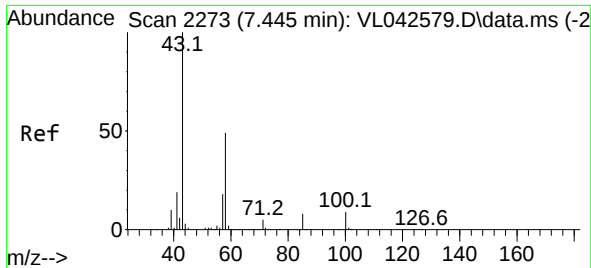
Tgt Ion: 83 Resp: 2317
Ion Ratio Lower Upper
83 100
85 33.8 52.7 79.1#
127 8.9 5.8 8.6#



#44
2,2,4-Trimethylpentane
Concen: 4.757 ppbv
RT: 4.664 min Scan# 1414
Delta R.T. 0.016 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

Tgt Ion: 57 Resp: 244291
Ion Ratio Lower Upper
57 100
41 34.4 26.1 39.1
56 35.7 25.9 38.9

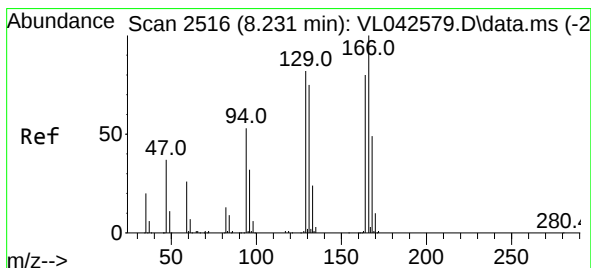
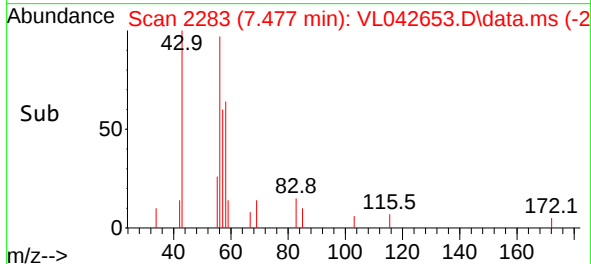
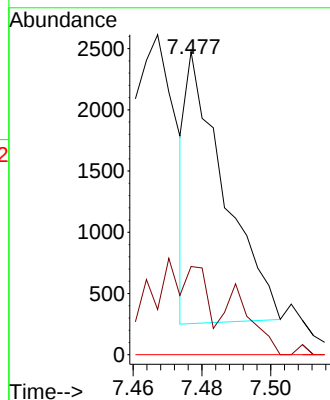
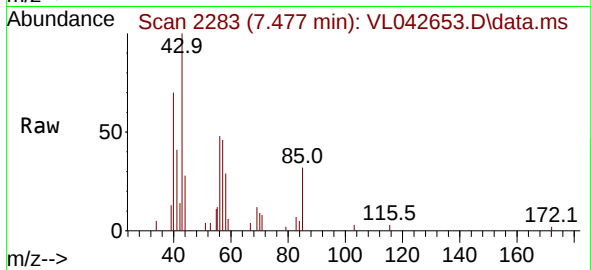




#51
2-Hexanone
Concen: 0.071 ppbv
RT: 7.477 min Scan# 21
Delta R.T. 0.032 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

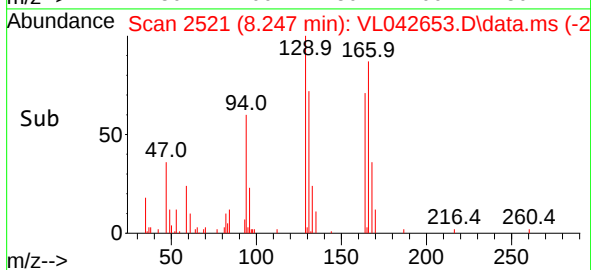
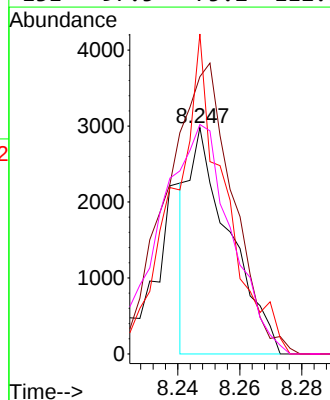
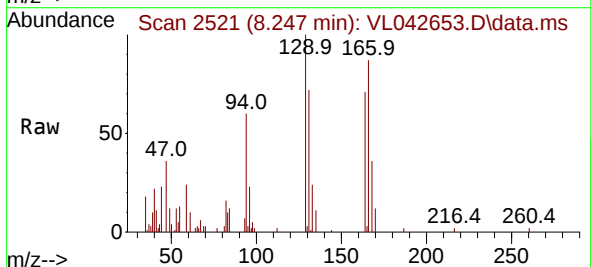
Instrument :
MSVOA_L
ClientSampleId :
IA1

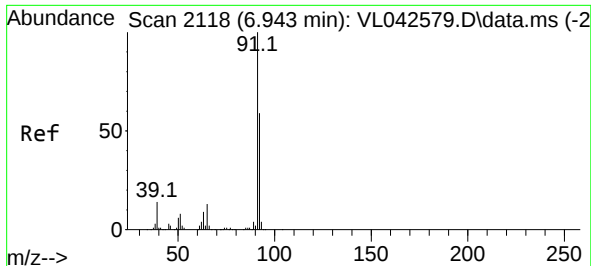
Tgt Ion: 43 Resp: 1687
Ion Ratio Lower Upper
43 100
58 0.0 39.9 59.9#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.243 ppbv
RT: 8.247 min Scan# 2521
Delta R.T. 0.016 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

Tgt Ion: 164 Resp: 2721
Ion Ratio Lower Upper
164 100
166 114.7 100.0 150.0
129 134.1 82.2 123.4#
131 97.5 75.2 112.8





#53

Toluene

Concen: 7.278 ppbv

RT: 6.962 min Scan# 2118

Delta R.T. 0.019 min

Lab File: VL042653.D

Acq: 19 Jun 2025 13:37

Instrument :

MSVOA_L

ClientSampleId :

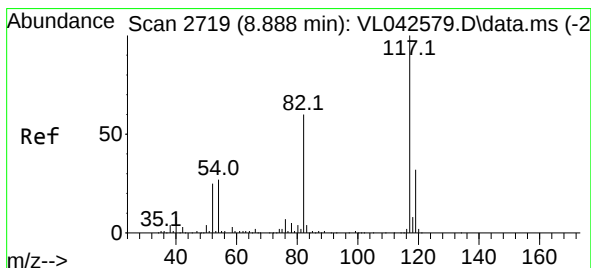
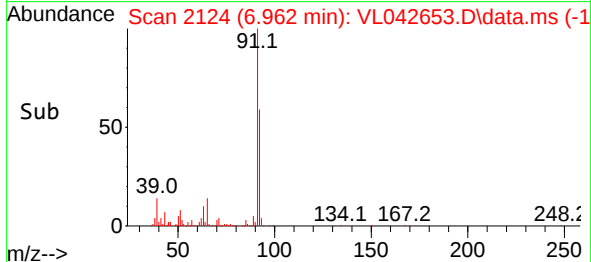
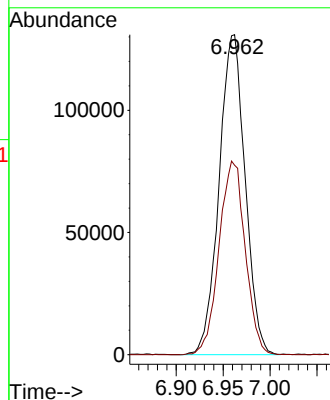
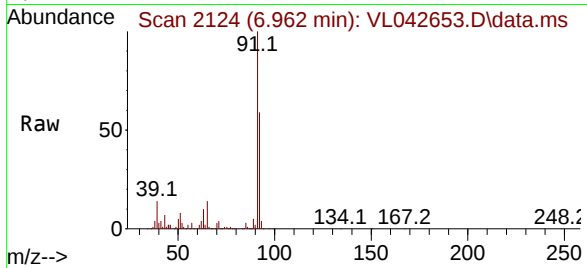
IA1

Tgt Ion: 91 Resp: 252517

Ion Ratio Lower Upper

91 100

92 60.8 48.2 72.4



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.901 min Scan# 2723

Delta R.T. 0.013 min

Lab File: VL042653.D

Acq: 19 Jun 2025 13:37

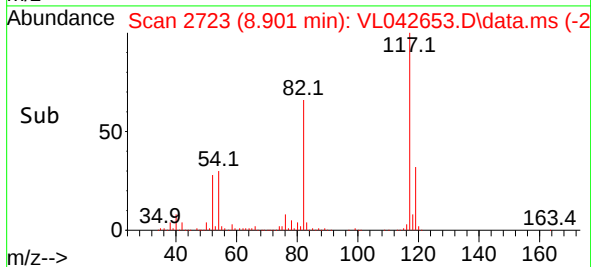
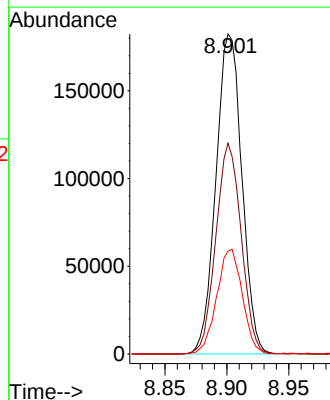
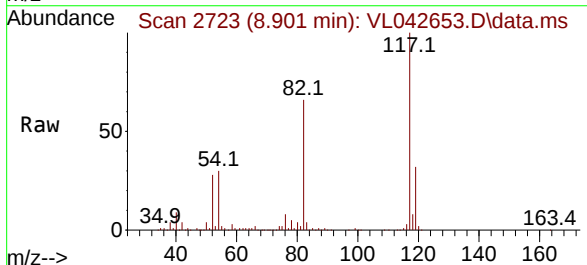
Tgt Ion: 117 Resp: 266456

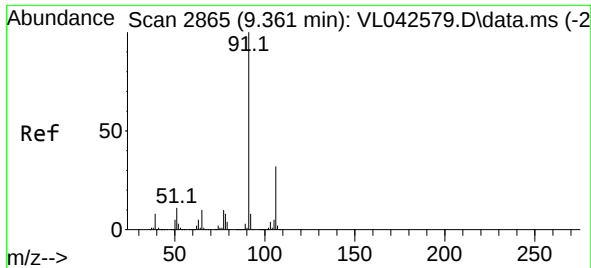
Ion Ratio Lower Upper

117 100

82 64.3 51.2 76.8

119 32.3 26.3 39.5

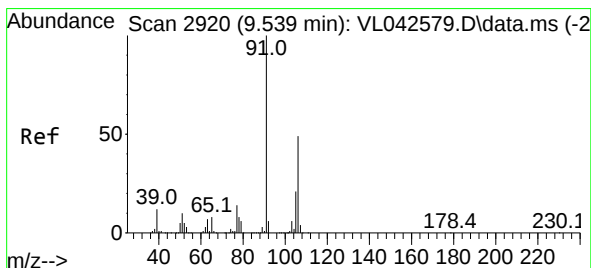
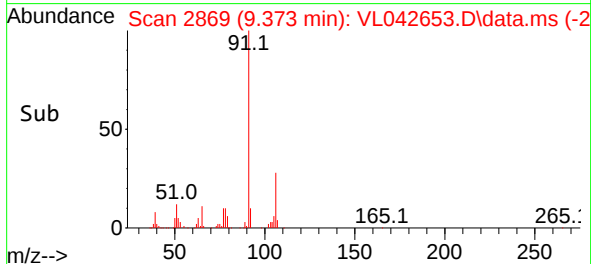
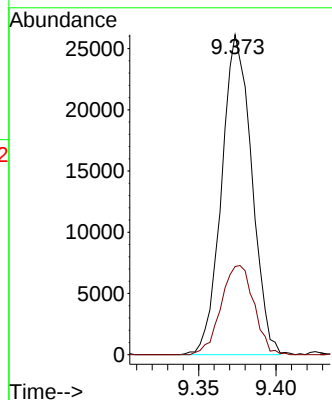
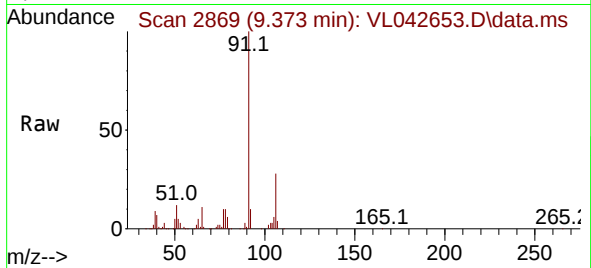




#58
Ethyl Benzene
Concen: 0.781 ppbv
RT: 9.373 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

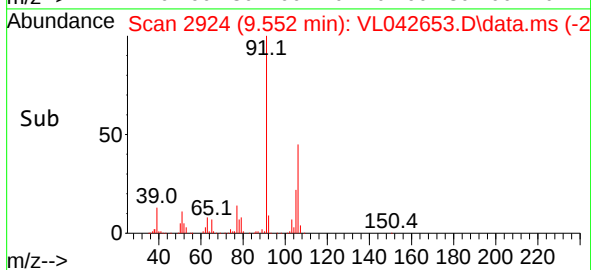
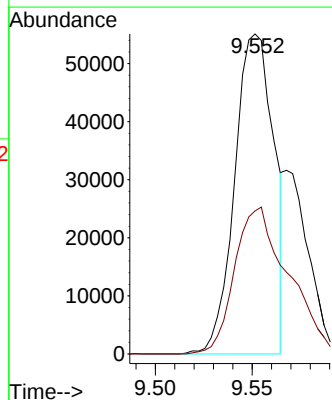
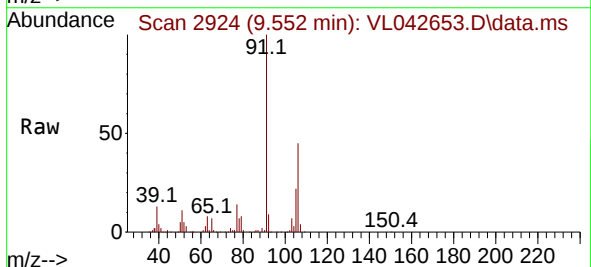
Instrument :
MSVOA_L
ClientSampleId :
IA1

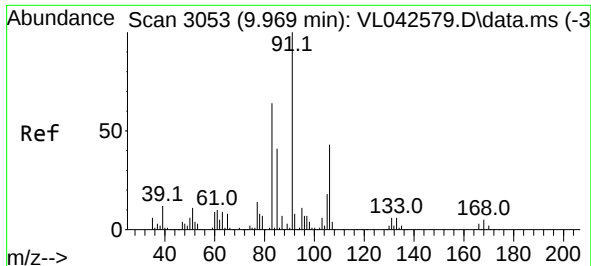
Tgt Ion: 91 Resp: 35314
Ion Ratio Lower Upper
91 100
106 27.5 25.9 38.9



#59
m/p-Xylene
Concen: 2.179 ppbv
RT: 9.552 min Scan# 2924
Delta R.T. 0.013 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

Tgt Ion: 91 Resp: 77491
Ion Ratio Lower Upper
91 100
106 62.7 38.8 58.2#

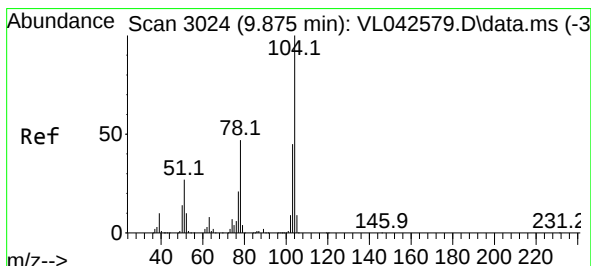
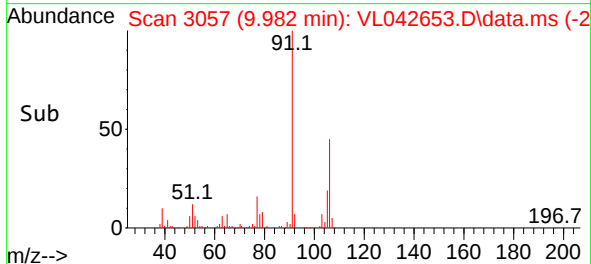
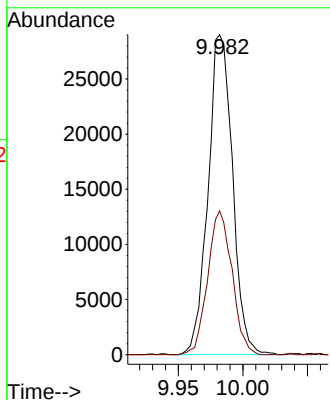
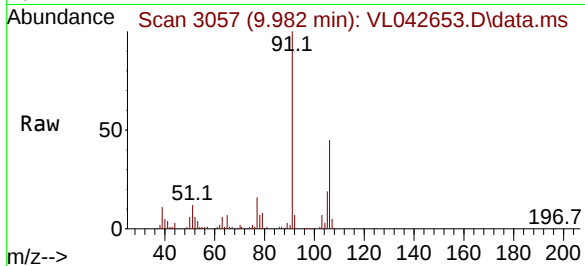




#60
o-Xylene
Concen: 1.080 ppbv
RT: 9.982 min Scan# 3053
Delta R.T. 0.013 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

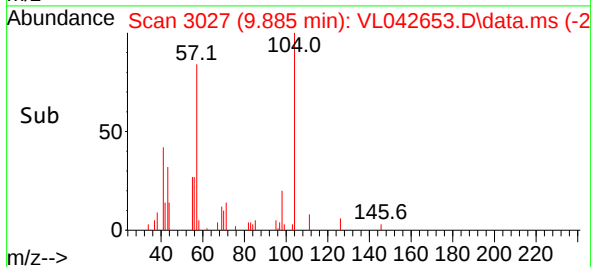
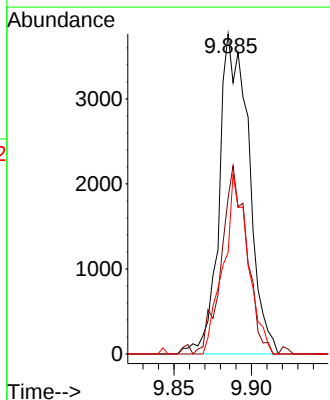
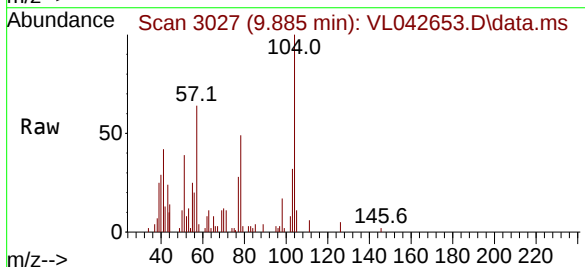
Instrument :
MSVOA_L
ClientSampleId :
IA1

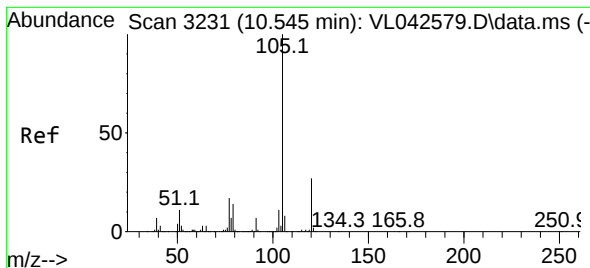
Tgt Ion: 91 Resp: 38319
Ion Ratio Lower Upper
91 100
106 44.5 22.9 68.5



#61
Styrene
Concen: 0.298 ppbv
RT: 9.885 min Scan# 3027
Delta R.T. 0.010 min
Lab File: VL042653.D
Acq: 19 Jun 2025 13:37

Tgt Ion:104 Resp: 4995
Ion Ratio Lower Upper
104 100
78 52.1 38.2 57.4
103 46.5 36.7 55.1





#62

Isopropylbenzene

Concen: 0.054 ppbv

RT: 10.555 min Scan# 31

Delta R.T. 0.010 min

Lab File: VL042653.D

Acq: 19 Jun 2025 13:37

Instrument :

MSVOA_L

ClientSampleId :

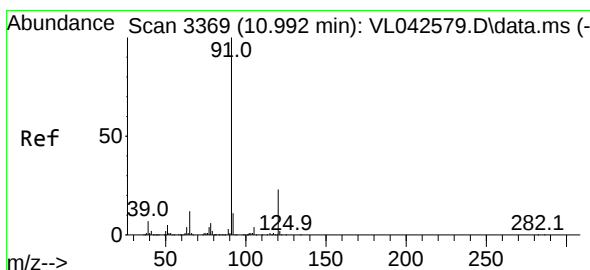
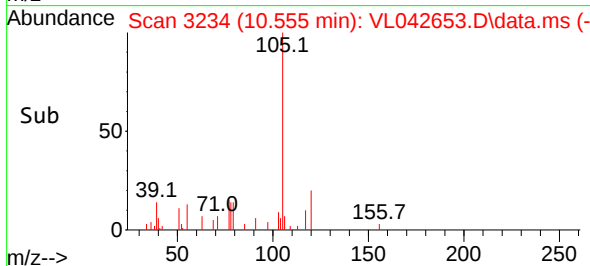
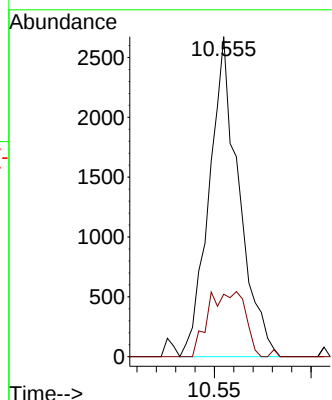
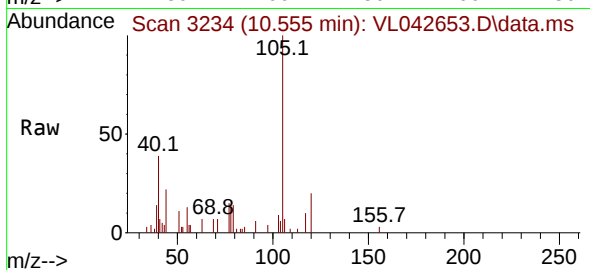
IA1

Tgt Ion:105 Resp: 2851

Ion Ratio Lower Upper

105 100

120 25.8 20.9 31.3



#64

n-propylbenzene

Concen: 0.182 ppbv

RT: 11.008 min Scan# 3374

Delta R.T. 0.016 min

Lab File: VL042653.D

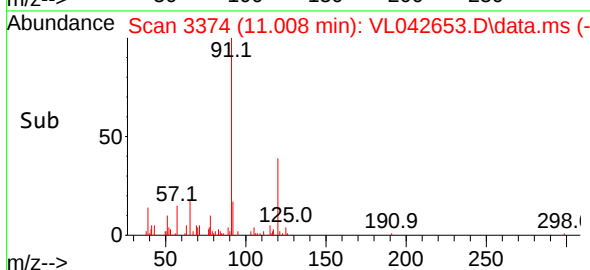
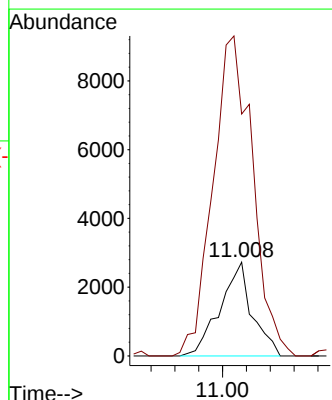
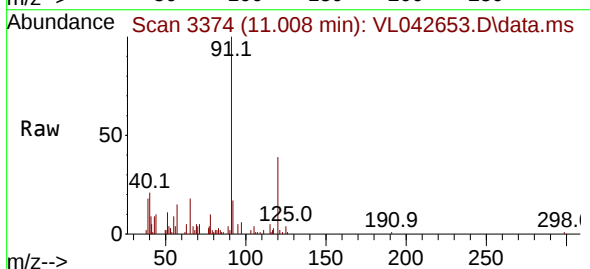
Acq: 19 Jun 2025 13:37

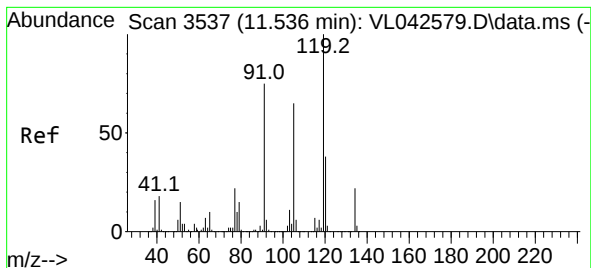
Tgt Ion:120 Resp: 2550

Ion Ratio Lower Upper

120 100

91 414.2 363.0 544.6





#65

tert-Butylbenzene

Concen: 0.134 ppbv

RT: 11.552 min Scan# 3542

Delta R.T. 0.016 min

Lab File: VL042653.D

Acq: 19 Jun 2025 13:37

Instrument :

MSVOA_L

ClientSampleId :

IA1

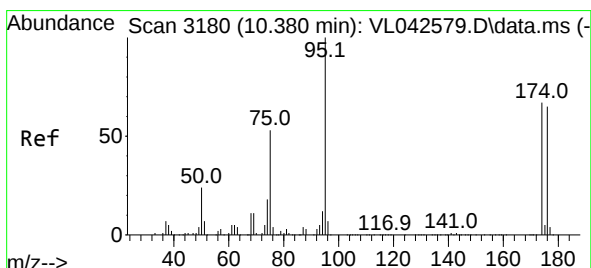
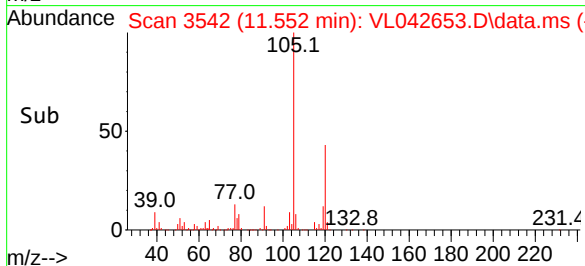
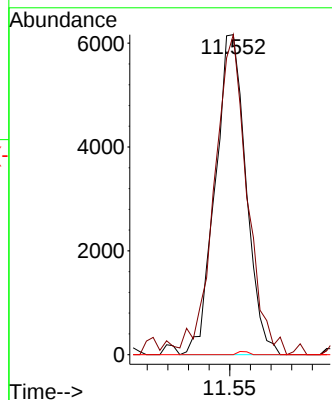
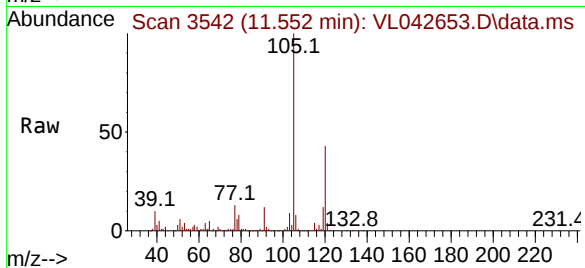
Tgt Ion:119 Resp: 6394

Ion Ratio Lower Upper

119 100

91 110.3 61.1 91.7#

134 0.0 17.4 26.2#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.260 ppbv

RT: 10.393 min Scan# 3184

Delta R.T. 0.013 min

Lab File: VL042653.D

Acq: 19 Jun 2025 13:37

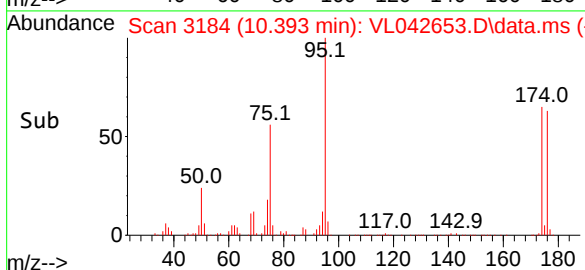
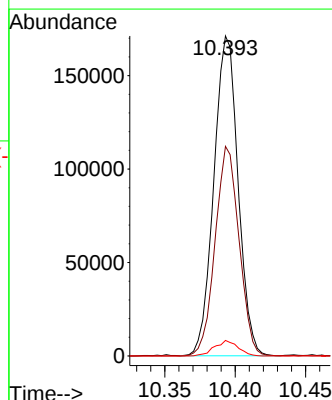
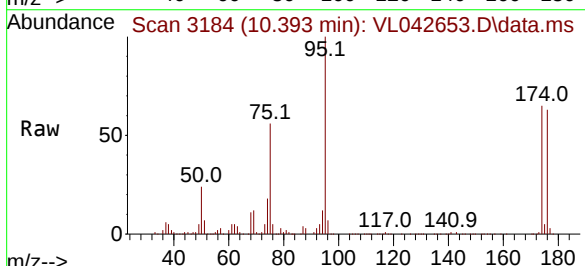
Tgt Ion: 95 Resp: 204937

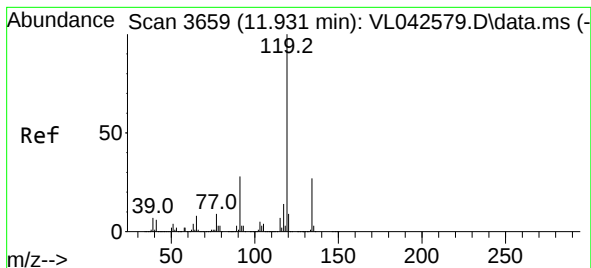
Ion Ratio Lower Upper

95 100

174 64.7 53.1 79.7

175 4.7 4.2 6.2





#69

p-Isopropyltoluene

Concen: 0.035 ppbv

RT: 11.940 min Scan# 3662

Delta R.T. 0.010 min

Lab File: VL042653.D

Acq: 19 Jun 2025 13:37

Instrument :

MSVOA_1

ClientSampleId :

IA1

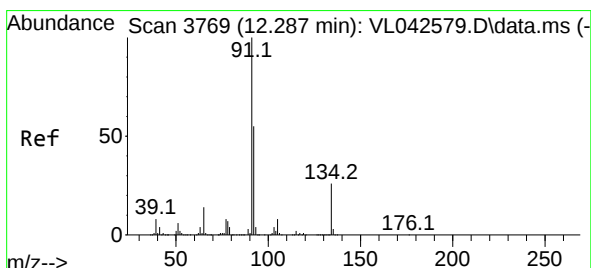
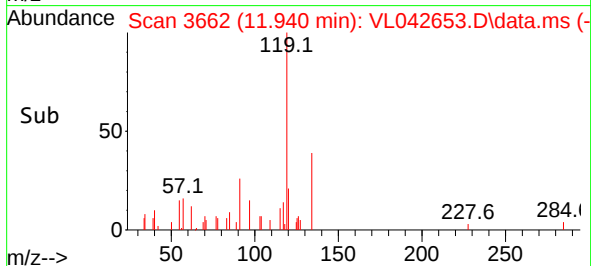
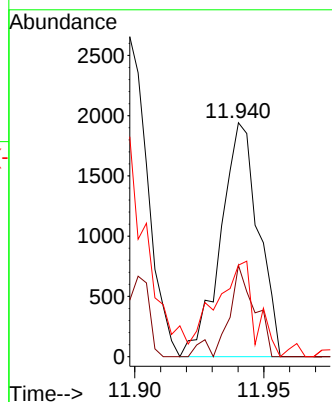
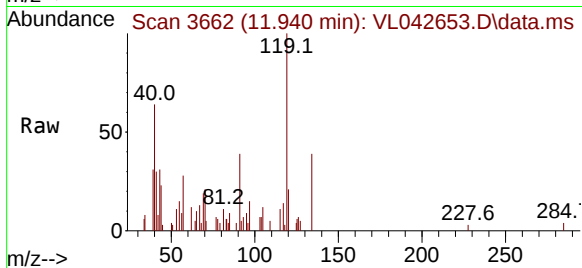
Tgt Ion:119 Resp: 1974

Ion Ratio Lower Upper

119 100

134 26.6 21.1 31.7

91 44.8 21.9 32.9#



#70

n-Butylbenzene

Concen: 0.030 ppbv

RT: 12.299 min Scan# 3773

Delta R.T. 0.013 min

Lab File: VL042653.D

Acq: 19 Jun 2025 13:37

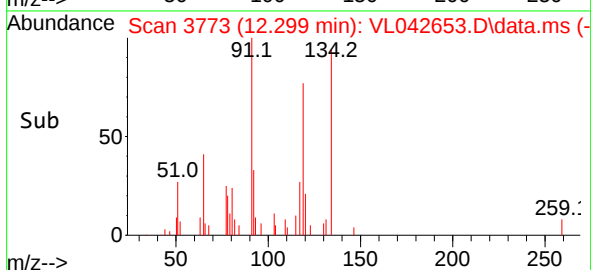
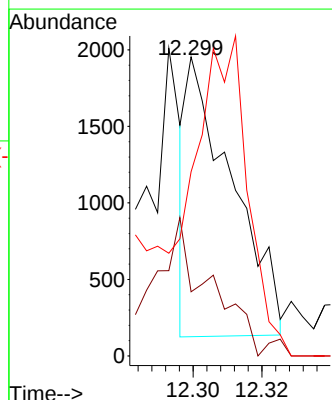
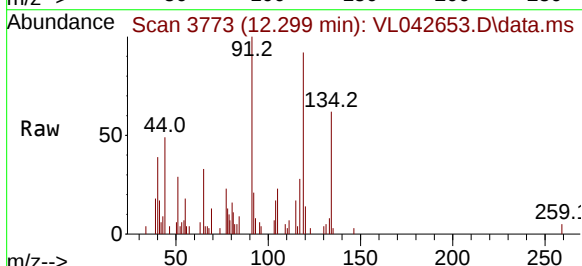
Tgt Ion: 91 Resp: 1677

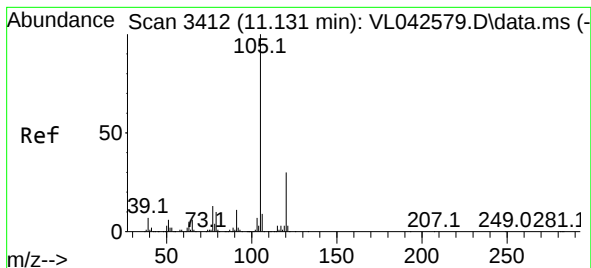
Ion Ratio Lower Upper

91 100

92 65.6 44.4 66.6

134 0.0 20.1 30.1#





#72

4-Ethyltoluene

Concen: 0.345 ppbv

RT: 11.137 min Scan# 3412

Delta R.T. 0.006 min

Lab File: VL042653.D

Acq: 19 Jun 2025 13:37

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:105 Resp: 15265

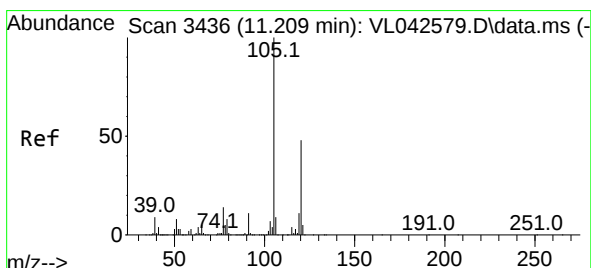
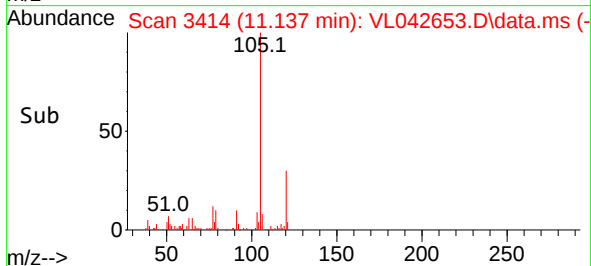
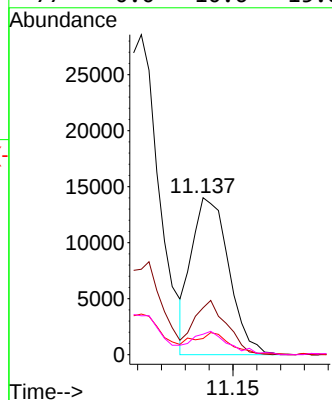
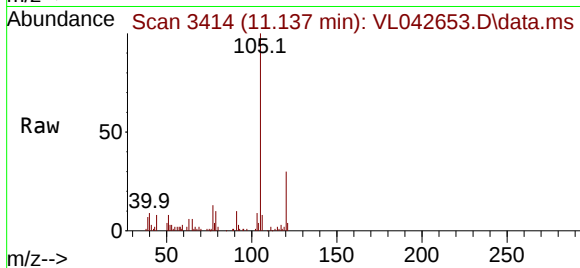
Ion Ratio Lower Upper

105 100

120 0.0 24.6 36.8#

91 0.0 9.6 14.4#

77 0.0 10.6 15.8#



#73

1,3,5-Trimethylbenzene

Concen: 0.405 ppbv

RT: 11.218 min Scan# 3439

Delta R.T. 0.010 min

Lab File: VL042653.D

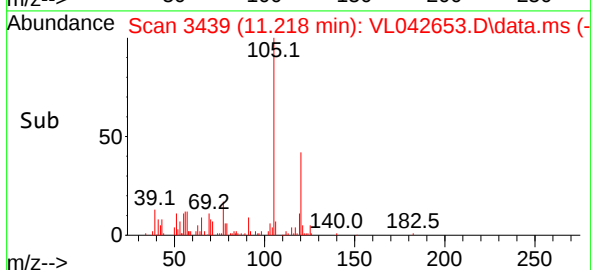
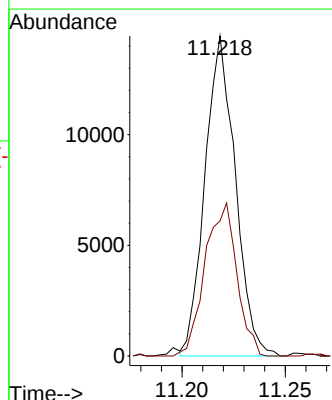
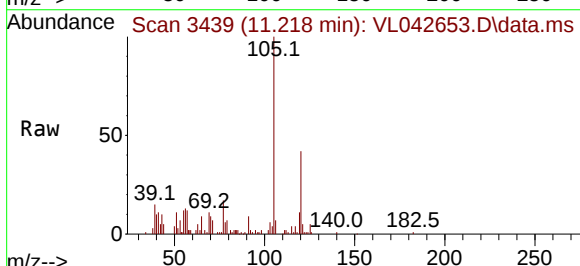
Acq: 19 Jun 2025 13:37

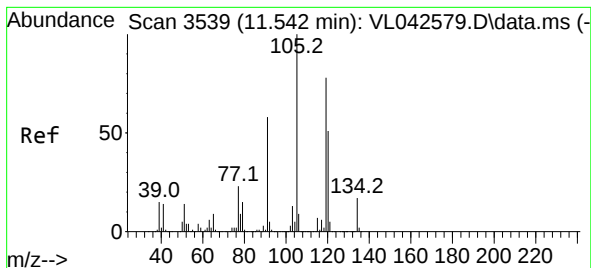
Tgt Ion:105 Resp: 14817

Ion Ratio Lower Upper

105 100

120 42.2 38.8 58.2





#74

1,2,4-Trimethylbenzene

Concen: 1.319 ppbv

RT: 11.552 min Scan# 3542

Delta R.T. 0.010 min

Lab File: VL042653.D

Acq: 19 Jun 2025 13:37

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:105 Resp: 53598

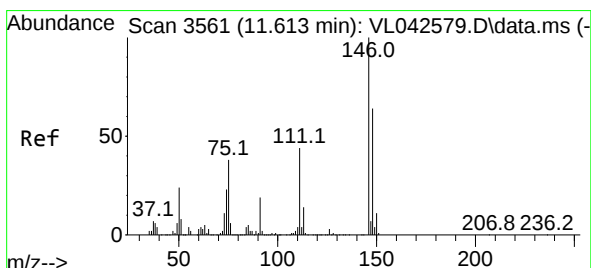
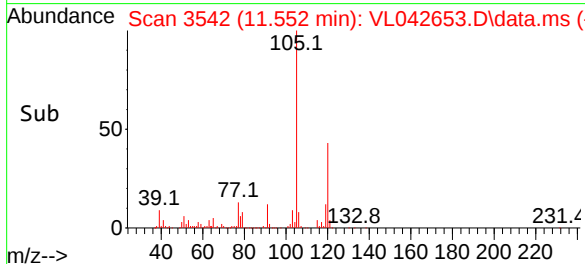
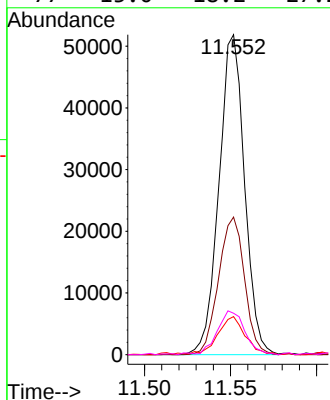
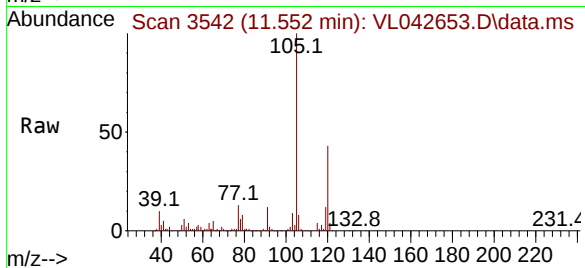
Ion Ratio Lower Upper

105 100

120 43.0 40.8 61.2

91 11.9 46.8 70.2#

77 13.0 18.2 27.2#



#75

1,3-Dichlorobenzene

Concen: 0.567 ppbv

RT: 11.688 min Scan# 3584

Delta R.T. 0.074 min

Lab File: VL042653.D

Acq: 19 Jun 2025 13:37

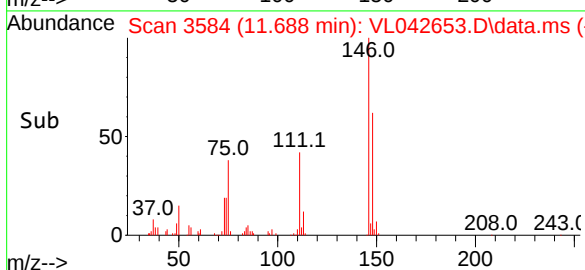
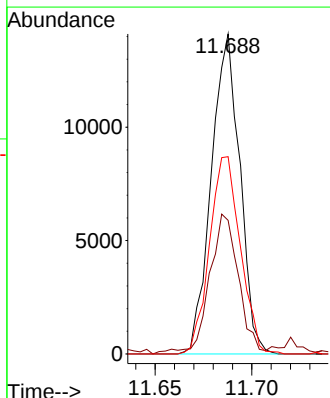
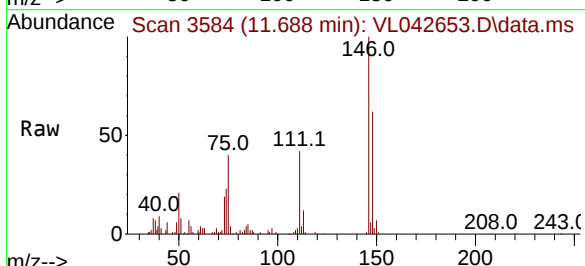
Tgt Ion:146 Resp: 14469

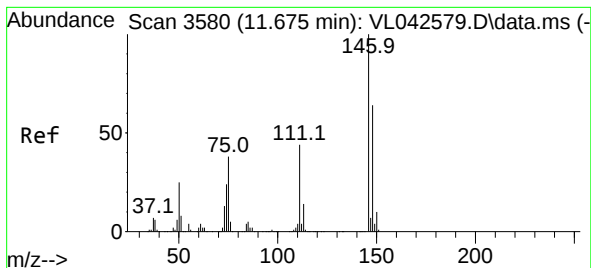
Ion Ratio Lower Upper

146 100

111 47.8 22.4 67.3

148 66.8 32.0 96.2





#76

1,4-Dichlorobenzene

Concen: 0.569 ppbv

RT: 11.688 min Scan# 3584

Delta R.T. 0.013 min

Lab File: VL042653.D

Acq: 19 Jun 2025 13:37

Instrument :

MSVOA_L

ClientSampleId :

IA1

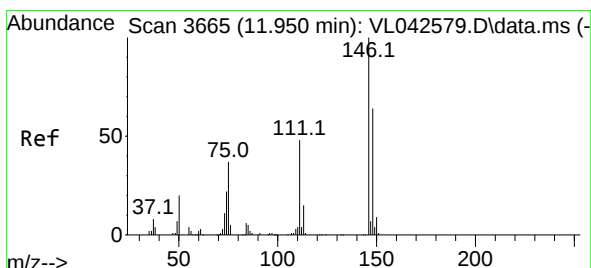
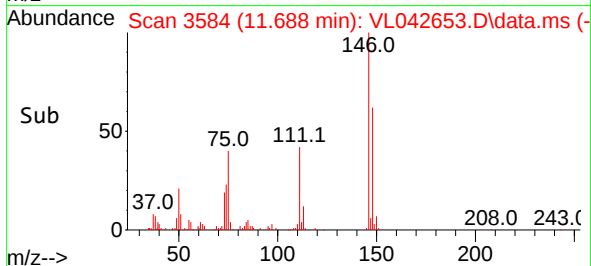
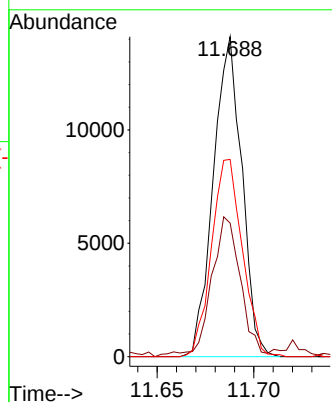
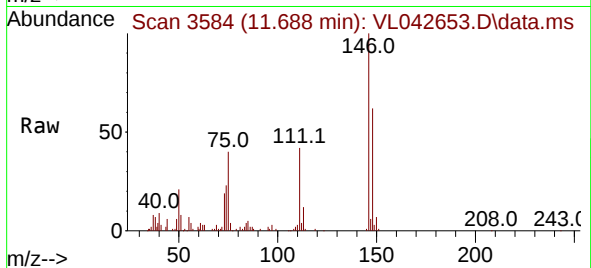
Tgt Ion:146 Resp: 14469

Ion Ratio Lower Upper

146 100

111 49.5 21.6 64.8

148 66.7 32.1 96.5



#77

1,2-Dichlorobenzene

Concen: 0.584 ppbv

RT: 11.688 min Scan# 3584

Delta R.T. -0.262 min

Lab File: VL042653.D

Acq: 19 Jun 2025 13:37

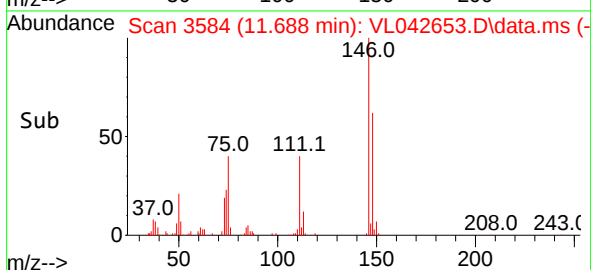
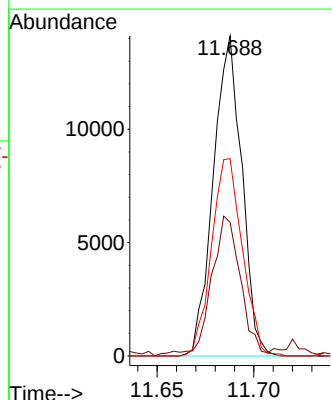
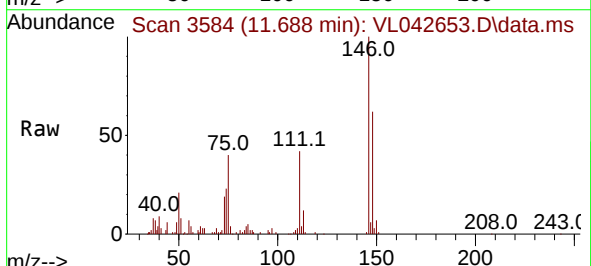
Tgt Ion:146 Resp: 14469

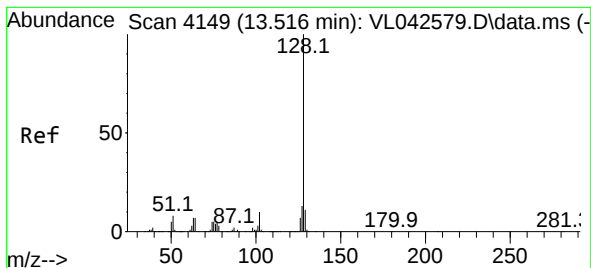
Ion Ratio Lower Upper

146 100

111 48.9 23.1 69.3

148 66.7 32.1 96.3





#79

Naphthalene

Concen: 0.349 ppbv

RT: 13.526 min Scan# 41

Delta R.T. 0.010 min

Lab File: VL042653.D

Acq: 19 Jun 2025 13:37

Instrument :

MSVOA_L

ClientSampleId :

IA1

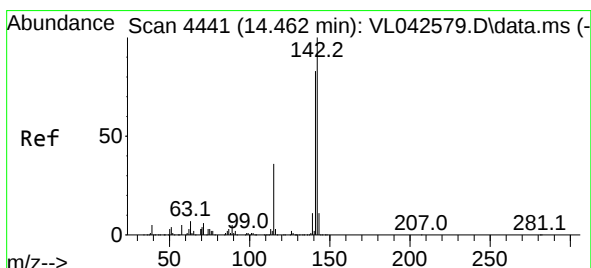
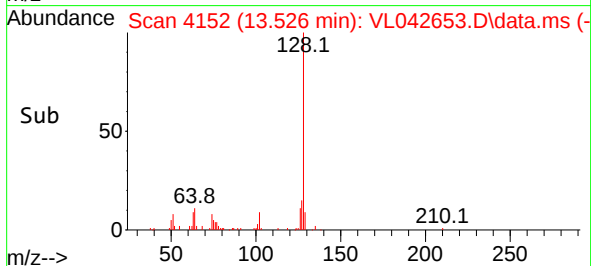
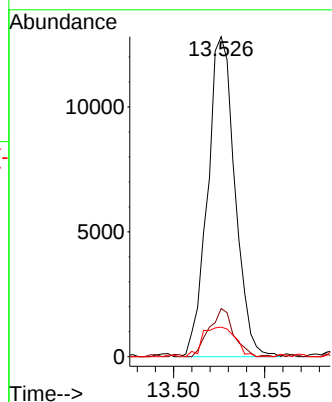
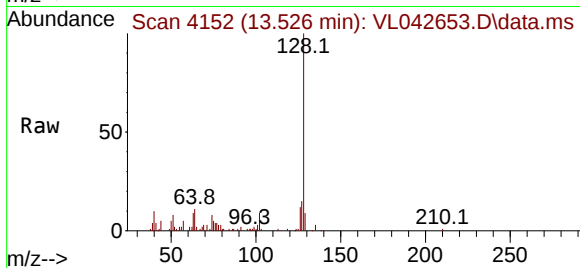
Tgt Ion:128 Resp: 13368

Ion Ratio Lower Upper

128 100

127 14.6 10.2 15.4

129 9.3 8.8 13.2



#80

Naphthalene,2-methyl-

Concen: 0.126 ppbv

RT: 14.468 min Scan# 4443

Delta R.T. 0.006 min

Lab File: VL042653.D

Acq: 19 Jun 2025 13:37

Tgt Ion:142 Resp: 2172

Ion Ratio Lower Upper

142 100

141 74.0 66.2 99.4

115 52.2 28.3 42.5#

