

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042856.D
 Acq On : 13 Aug 2025 17:43
 Operator : SY/MD
 Sample : Q2794-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 14 02:19:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	128396	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	393431	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	334635	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	257886	10.276	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	8175	0.434	ppbv	96
3) Chlorodifluoromethane	1.470	51	265233	12.752	ppbv #	60
4) Chloromethane	1.534	50	4213	0.555	ppbv #	87
7) Chloroethane	1.496	64	837	0.287	ppbv #	46
8) Dichlorotetrafluoroethane	1.554	85	395	0.026	ppbv	86
9) Propene	1.890	41	54779	6.098	ppbv	92
10) Heptane	4.994	43	38056	1.582	ppbv	100
11) Trichlorofluoromethane	1.884	101	4166	0.224	ppbv	85
12) 1,1,2-Trichlorotrifluo...	2.146	101	967	0.065	ppbv #	71
13) Ethanol	1.729	45	1155226	1406.519	ppbv	94
15) Acetone	1.839	43	559018	32.913	ppbv	99
16) 1,3-Butadiene	1.606	39	2459	0.319	ppbv #	10
17) tert-Butyl alcohol	1.894	59	24090	1.196	ppbv	97
19) Isopropyl Alcohol	1.890	45	625704	61.679	ppbv #	74
20) Methylene Chloride	2.068	84	6492	0.912	ppbv #	82
21) Allyl Chloride	2.085	41	1844	0.154	ppbv #	1
23) Vinyl Acetate	2.463	43	56173	2.405	ppbv #	91
25) Ethyl Acetate	2.845	43	164136	3.993	ppbv #	96
26) Hexane	2.836	57	46019	2.425	ppbv #	40
27) Carbon Disulfide	2.156	76	1325	0.072	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	1810	0.187	ppbv #	48
29) Chloroform	2.855	83	7795	0.288	ppbv	89
30) Cyclohexane	3.868	84	10419	0.626	ppbv #	11
31) cis-1,2-Dichloroethene	2.848	61	16850	0.889	ppbv #	22
34) 2-Butanone	2.567	43	22988	0.865	ppbv	97
35) Carbon Tetrachloride	3.768	117	802	0.030	ppbv	89
36) Benzene	3.667	78	48134	1.278	ppbv	96
37) 1,2-Dichloroethane	3.230	62	3433	0.174	ppbv	96
39) 1,2-Dichloropropane	3.972	63	96508	7.014	ppbv #	27
41) Tetrahydrofuran	3.075	42	2733	0.185	ppbv #	76
42) Bromodichloromethane	4.506	83	656	0.022	ppbv #	81
43) Methyl Methacrylate	4.900	69	4665	0.301	ppbv #	5
44) 2,2,4-Trimethylpentane	4.654	57	146940	2.298	ppbv	90
50) 4-Methyl-2-Pentanone	5.784	43	2622	0.073	ppbv #	38
51) 2-Hexanone	7.454	43	991	0.035	ppbv #	27
52) Tetrachloroethene	8.244	164	389	0.029	ppbv #	67
53) Toluene	6.949	91	493089	11.009	ppbv	99
58) Ethyl Benzene	9.370	91	98105	1.661	ppbv	96
59) m/p-Xylene	9.542	91	251271	5.429	ppbv #	100
60) o-Xylene	9.976	91	95586	2.053	ppbv	99
61) Styrene	9.882	104	2866	0.131	ppbv #	73
62) Isopropylbenzene	10.552	105	7611	0.112	ppbv	99
64) n-propylbenzene	10.998	120	6004	0.346	ppbv	92

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

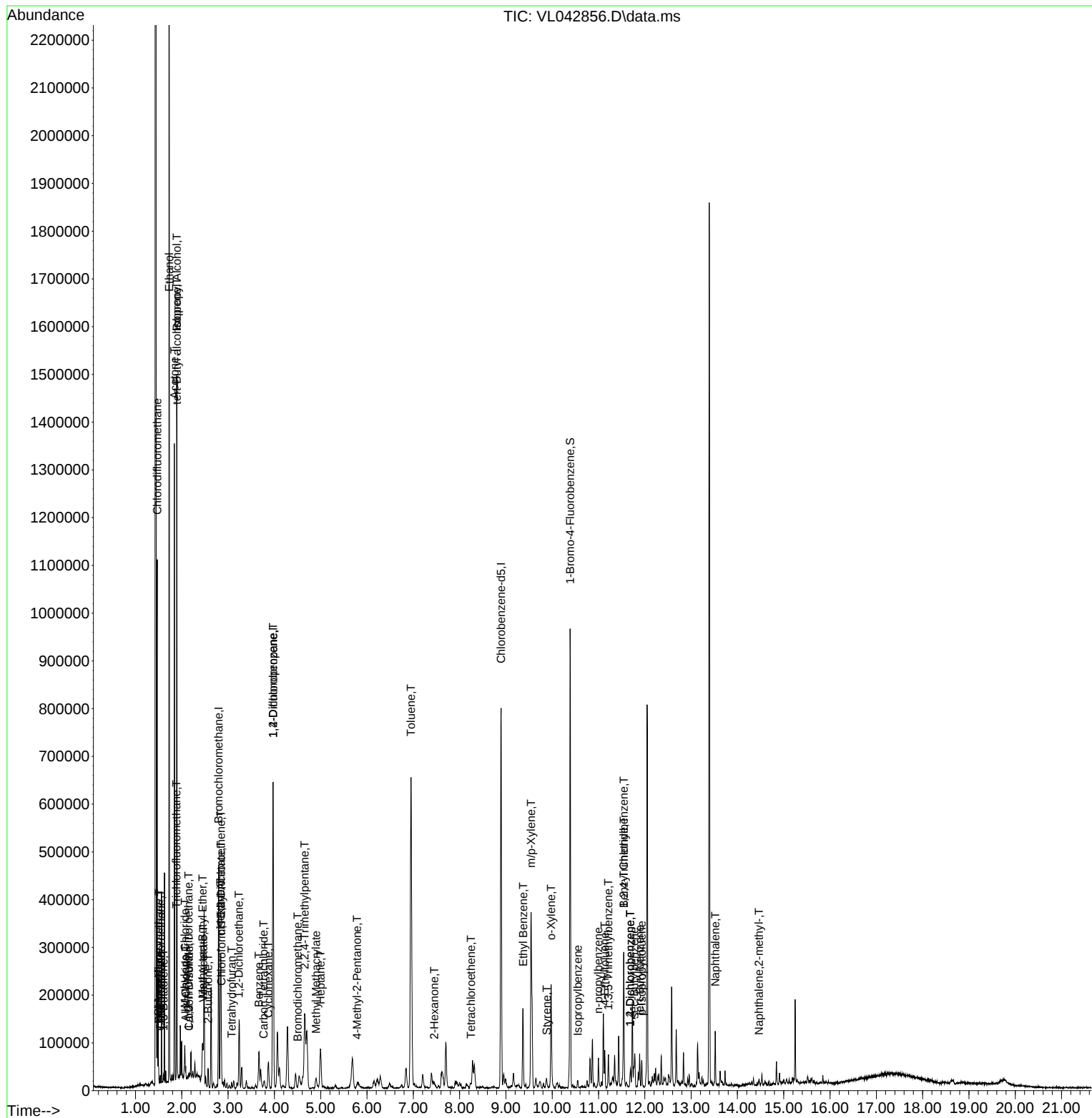
65) tert-Butylbenzene	11.892	119	4586	0.076	ppbv	99
66) Benzyl Chloride	11.545	91	13380	1.757	ppbv #	65
67) sec-Butylbenzene	11.775	105	2528	0.030	ppbv #	33
69) p-Isopropyltoluene	11.934	119	20563	0.284	ppbv	97
72) 4-Ethyltoluene	11.134	105	30628	0.543	ppbv #	64
73) 1,3,5-Trimethylbenzene	11.212	105	23270	0.485	ppbv	93
74) 1,2,4-Trimethylbenzene	11.545	105	96672	1.835	ppbv #	59
76) 1,4-Dichlorobenzene	11.684	146	4511	0.149	ppbv	84
77) 1,2-Dichlorobenzene	11.684	146	4511	0.154	ppbv	93
79) Naphthalene	13.520	128	51249	1.073	ppbv	95
80) Naphthalene,2-methyl-	14.465	142	3255	0.182	ppbv	97

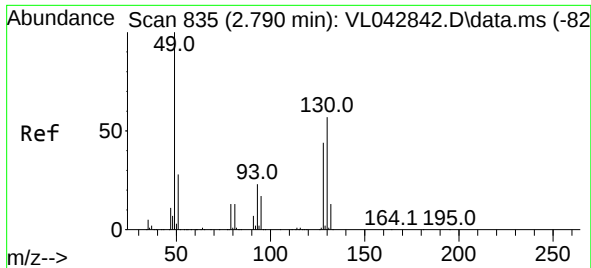
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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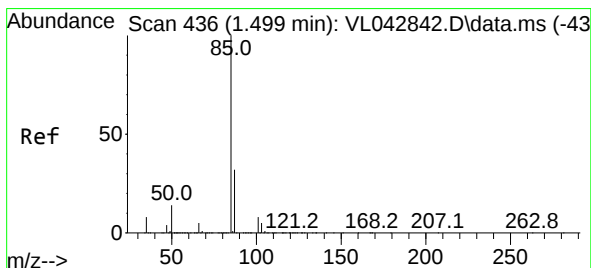
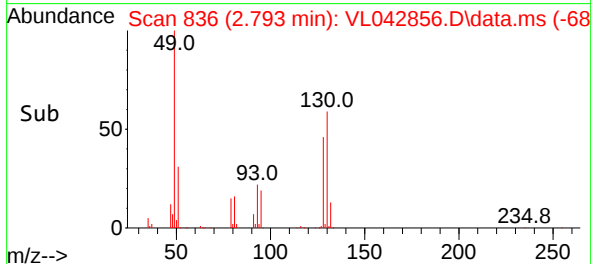
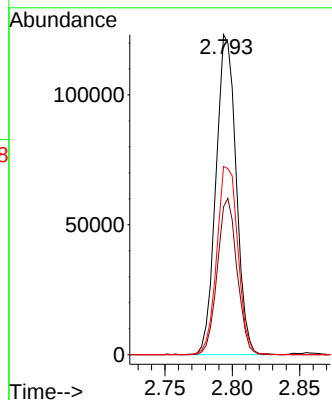
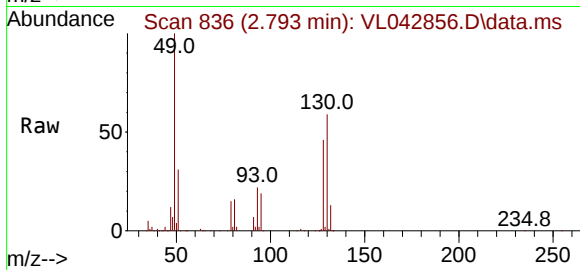




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042856.D
Acq: 13 Aug 2025 17:43

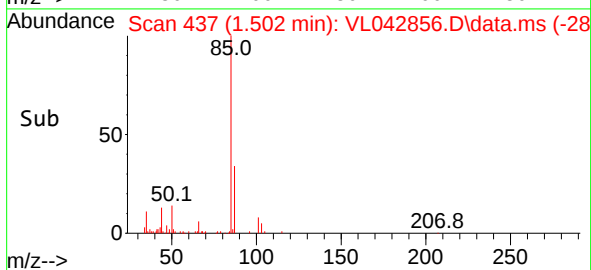
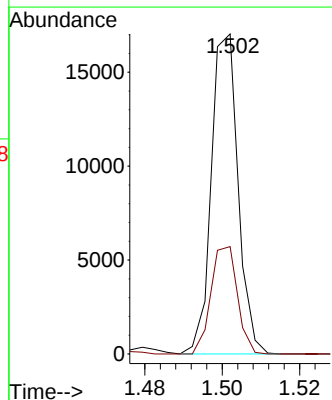
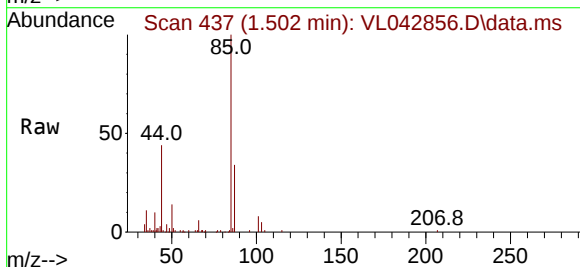
Instrument :
MSVOA_L
ClientSampleId :

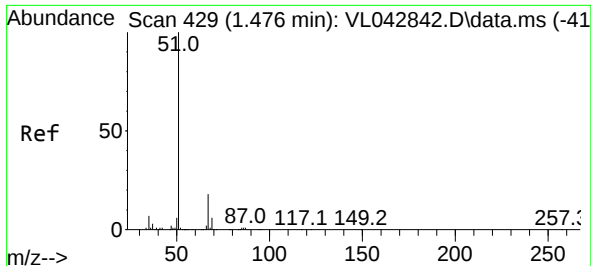
Tgt Ion: 49 Resp: 128396
Ion Ratio Lower Upper
49 100
128 47.7 23.7 71.1
130 61.3 30.6 91.6



#2
Dichlorodifluoromethane
Concen: 0.434 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042856.D
Acq: 13 Aug 2025 17:43

Tgt Ion: 85 Resp: 8175
Ion Ratio Lower Upper
85 100
87 33.6 25.3 37.9

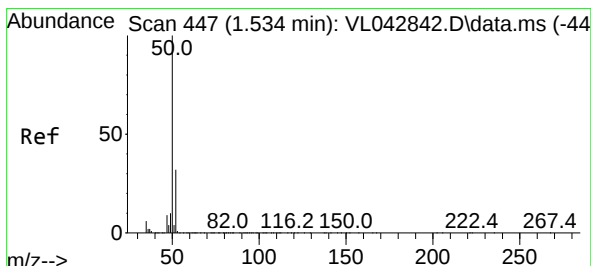
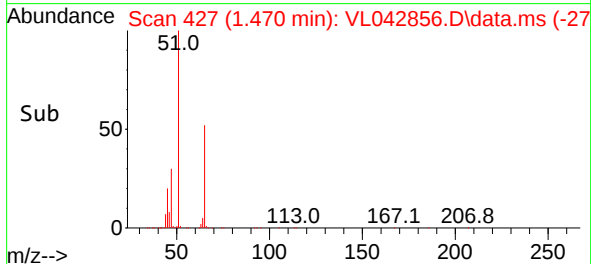
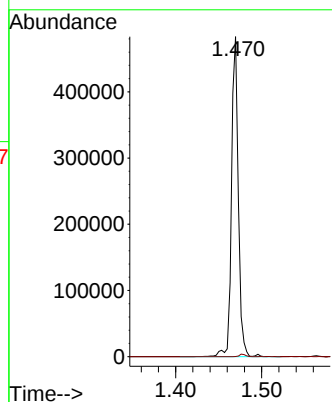
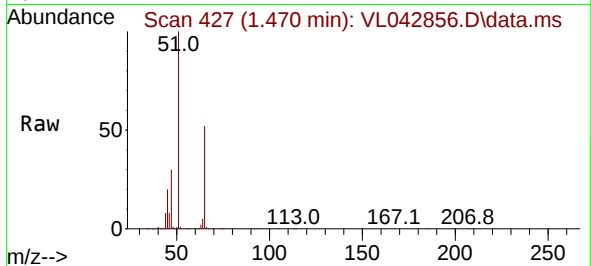




#3
Chlorodifluoromethane
Concen: 12.752 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.007 min
Lab File: VL042856.D
Acq: 13 Aug 2025 17:43

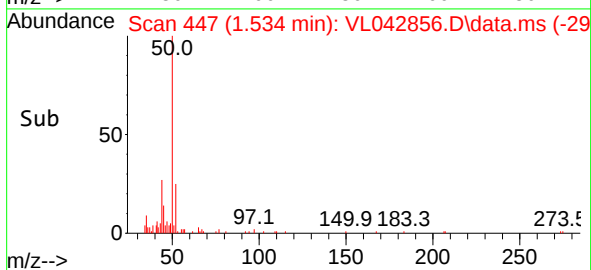
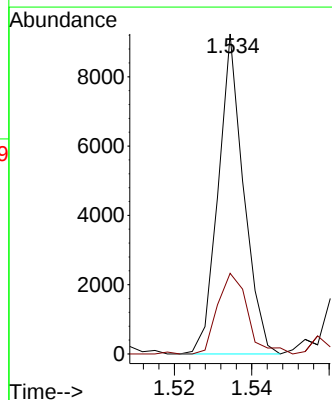
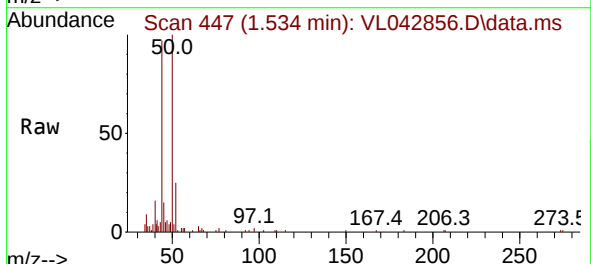
Instrument :
MSVOA_L
ClientSampleId :

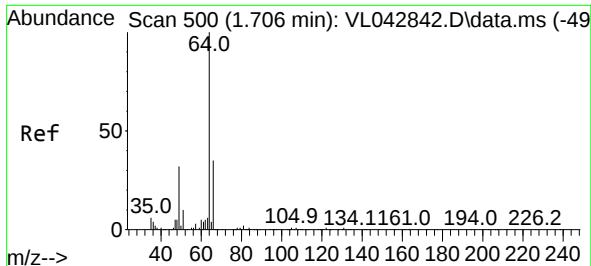
Tgt Ion: 51 Resp: 265233
Ion Ratio Lower Upper
51 100
67 0.7 14.9 22.3#



#4
Chloromethane
Concen: 0.555 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL042856.D
Acq: 13 Aug 2025 17:43

Tgt Ion: 50 Resp: 4213
Ion Ratio Lower Upper
50 100
52 25.2 25.9 38.9#

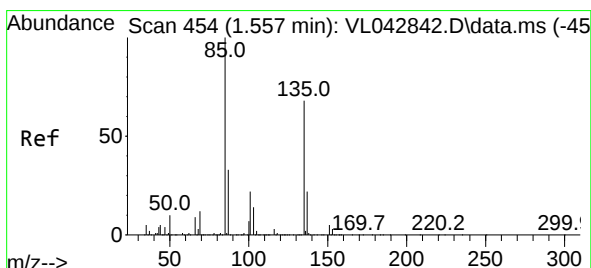
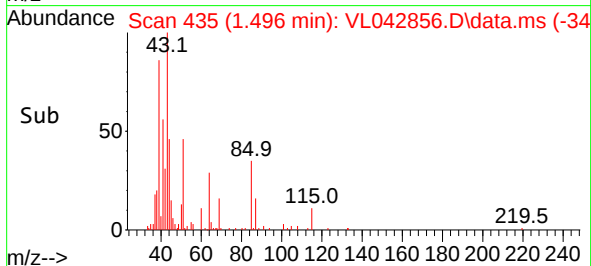
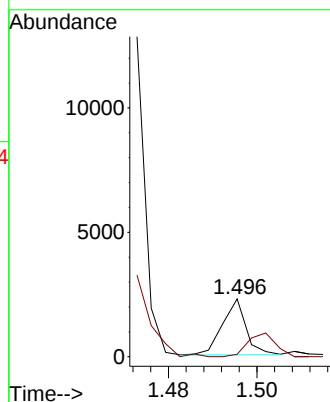
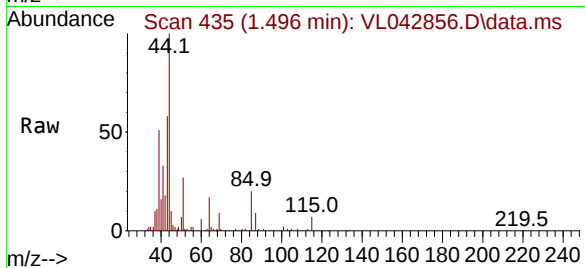




#7
Chloroethane
Concen: 0.287 ppbv
RT: 1.496 min Scan# 41
Delta R.T. -0.210 min
Lab File: VL042856.D
Acq: 13 Aug 2025 17:43

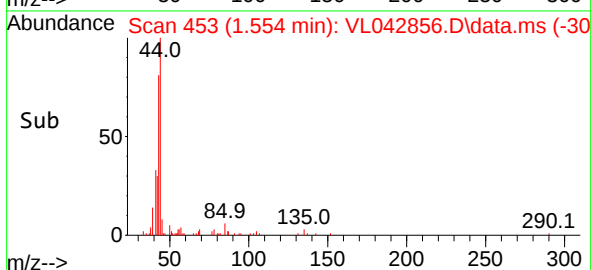
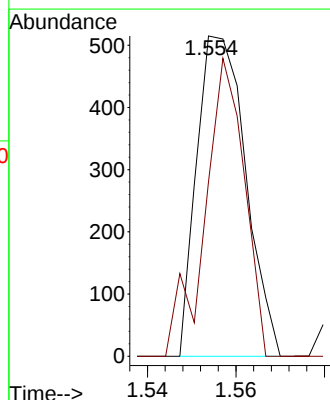
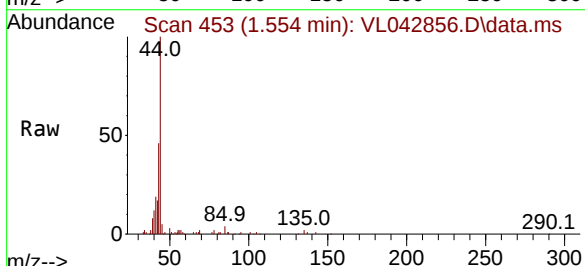
Instrument :
MSVOA_L
ClientSampleId :

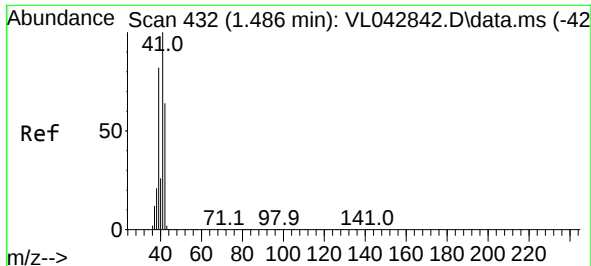
Tgt Ion: 64 Resp: 837
Ion Ratio Lower Upper
64 100
66 4.2 28.6 42.8#



#8
Dichlorotetrafluoroethane
Concen: 0.026 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.003 min
Lab File: VL042856.D
Acq: 13 Aug 2025 17:43

Tgt Ion: 85 Resp: 395
Ion Ratio Lower Upper
85 100
135 75.2 51.2 76.8





#9

Propene

Concen: 6.098 ppbv

RT: 1.890 min Scan# 51

Delta R.T. 0.405 min

Lab File: VL042856.D

Acq: 13 Aug 2025 17:43

Instrument :

MSVOA_L

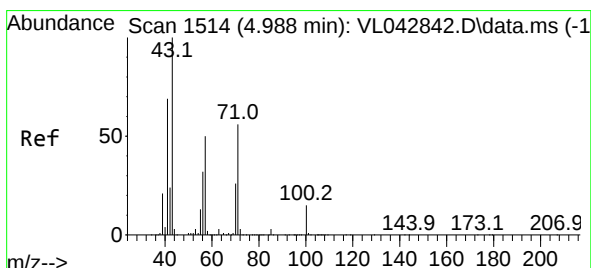
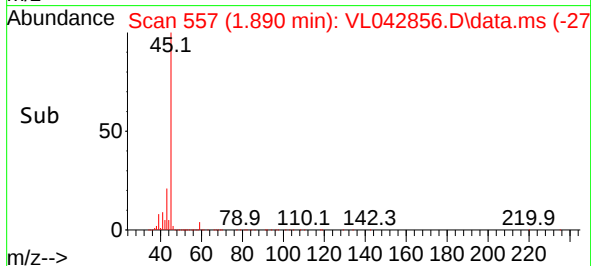
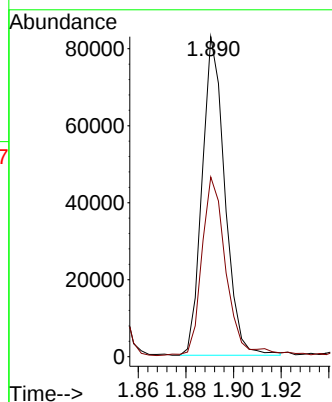
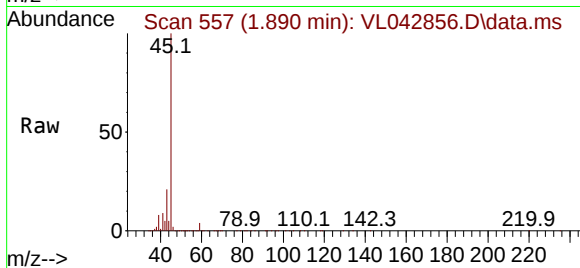
ClientSampleId :

Tgt Ion: 41 Resp: 54779

Ion Ratio Lower Upper

41 100

42 59.4 53.0 79.4



#10

Heptane

Concen: 1.582 ppbv

RT: 4.994 min Scan# 1516

Delta R.T. 0.006 min

Lab File: VL042856.D

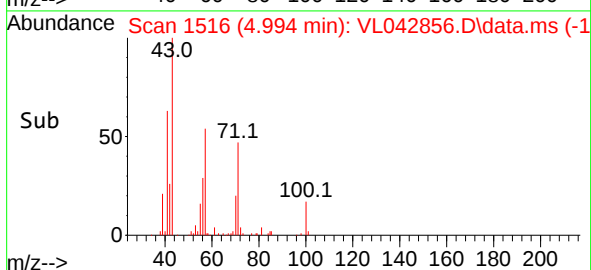
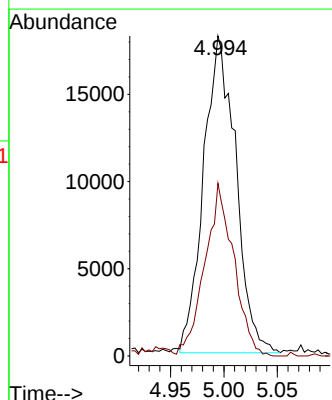
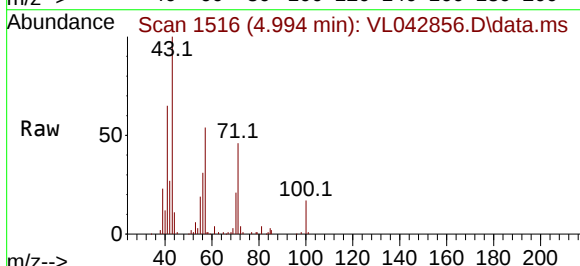
Acq: 13 Aug 2025 17:43

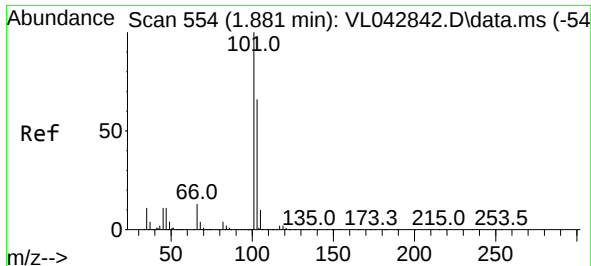
Tgt Ion: 43 Resp: 38056

Ion Ratio Lower Upper

43 100

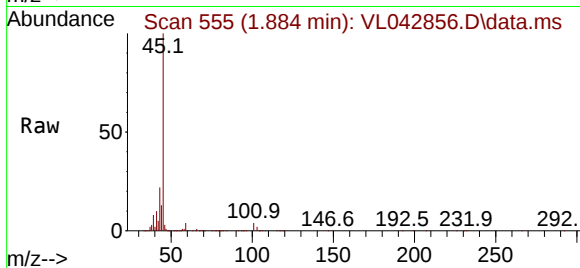
57 51.9 41.4 62.0



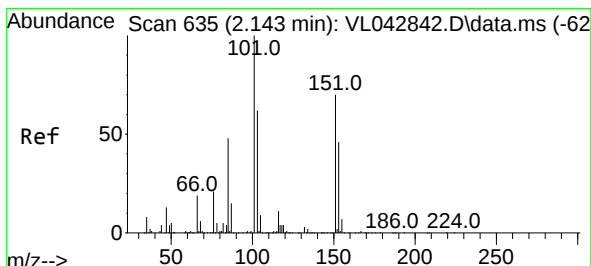
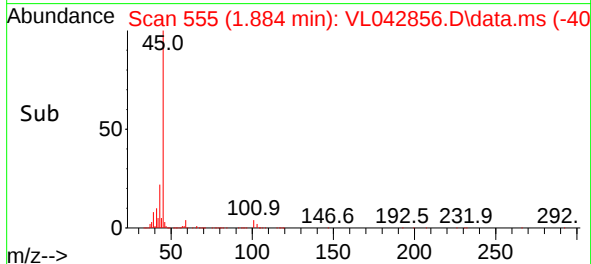
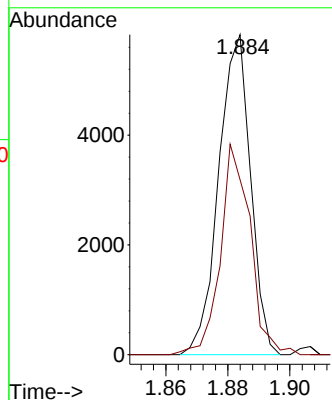


#11
 Trichlorofluoromethane
 Concen: 0.224 ppbv
 RT: 1.884 min Scan# 511
 Delta R.T. 0.003 min
 Lab File: VL042856.D
 Acq: 13 Aug 2025 17:43

Instrument :
 MSVOA_L
 ClientSampleId :

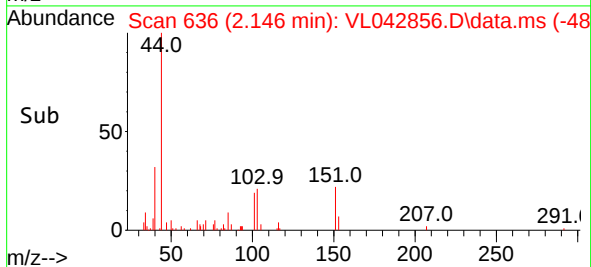
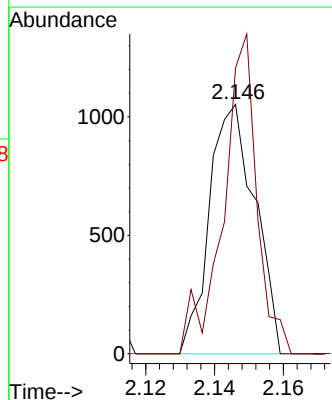
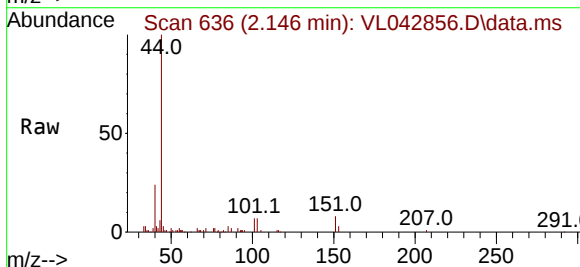


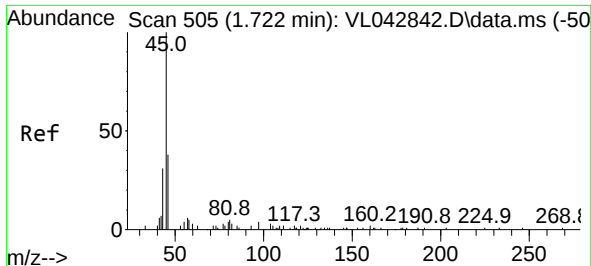
Tgt Ion:101 Resp: 4166
 Ion Ratio Lower Upper
 101 100
 103 53.8 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.065 ppbv
 RT: 2.146 min Scan# 636
 Delta R.T. 0.003 min
 Lab File: VL042856.D
 Acq: 13 Aug 2025 17:43

Tgt Ion:101 Resp: 967
 Ion Ratio Lower Upper
 101 100
 151 94.7 56.4 84.6#

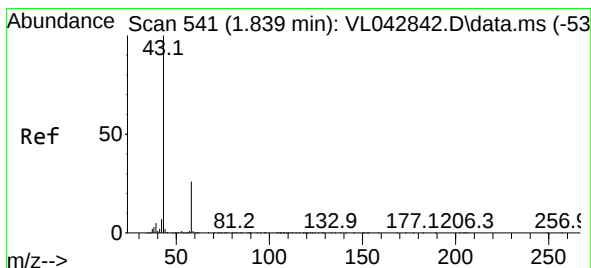
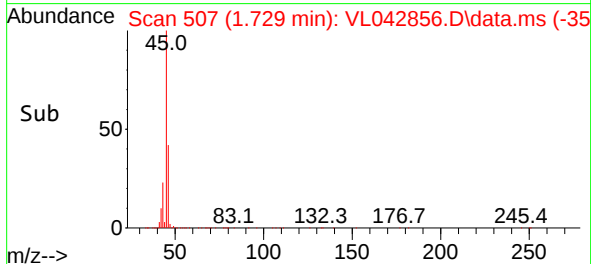
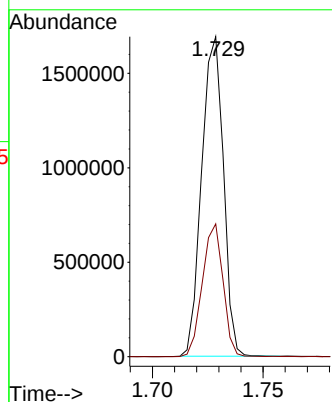
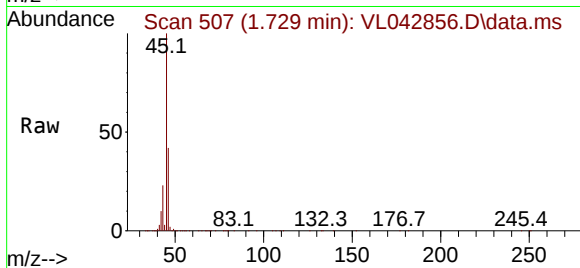




#13
 Ethanol
 Concen: 1406.519 ppbv
 RT: 1.729 min Scan# 505
 Delta R.T. 0.006 min
 Lab File: VL042856.D
 Acq: 13 Aug 2025 17:43

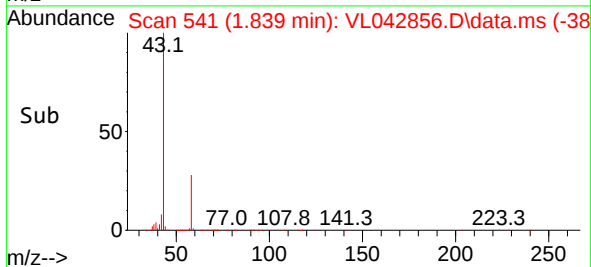
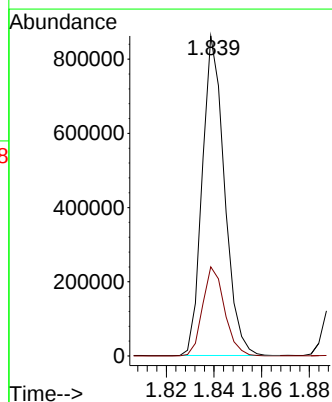
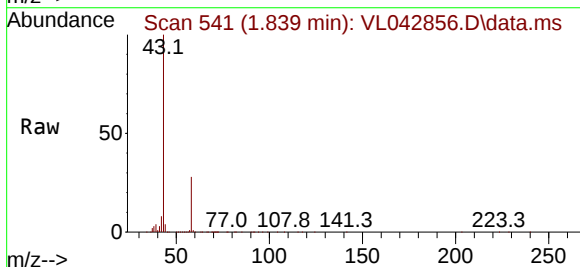
Instrument :
 MSVOA_L
 ClientSampleId :

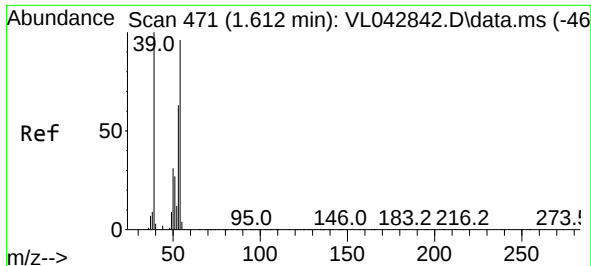
Tgt Ion: 45 Resp: 1155226
 Ion Ratio Lower Upper
 45 100
 46 39.7 17.5 69.9



#15
 Acetone
 Concen: 32.913 ppbv
 RT: 1.839 min Scan# 541
 Delta R.T. -0.000 min
 Lab File: VL042856.D
 Acq: 13 Aug 2025 17:43

Tgt Ion: 43 Resp: 559018
 Ion Ratio Lower Upper
 43 100
 58 27.6 22.4 33.6

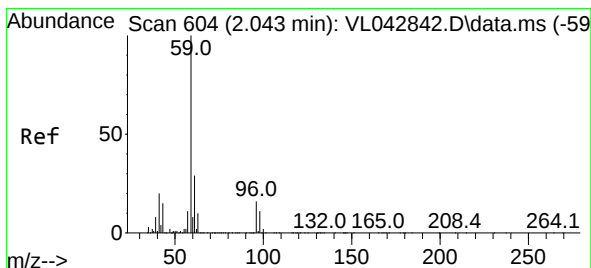
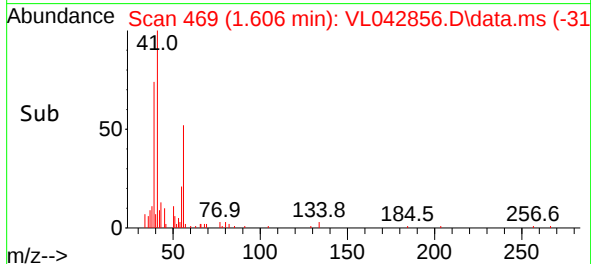
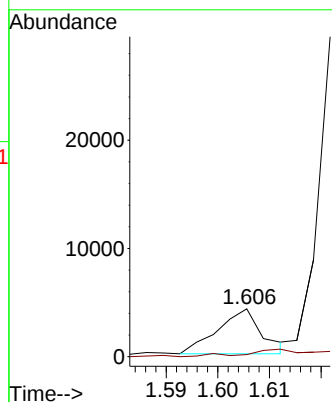
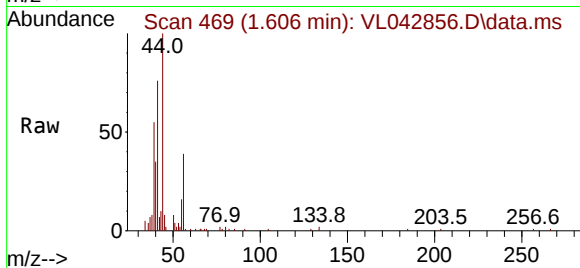




#16
1,3-Butadiene
Concen: 0.319 ppbv
RT: 1.606 min Scan# 41
Delta R.T. -0.007 min
Lab File: VL042856.D
Acq: 13 Aug 2025 17:43

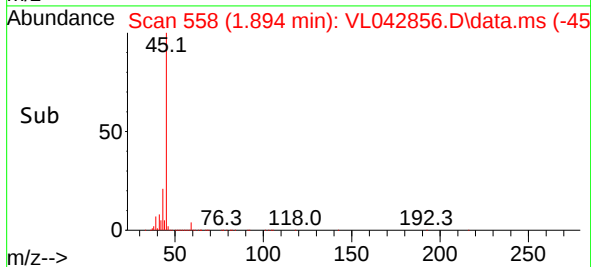
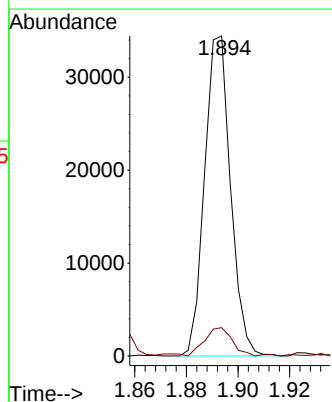
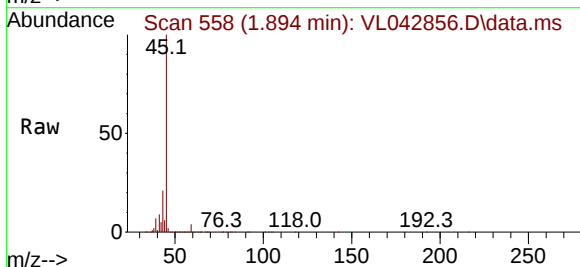
Instrument :
MSVOA_L
ClientSampleId :

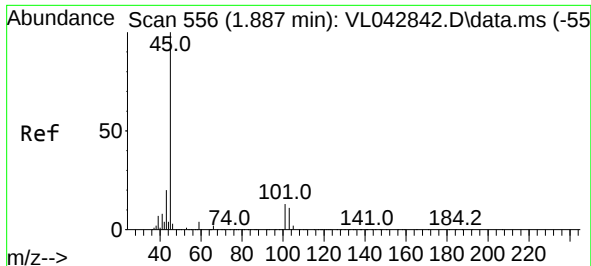
Tgt Ion: 39 Resp: 2459
Ion Ratio Lower Upper
39 100
54 0.0 63.6 95.4#



#17
tert-Butyl alcohol
Concen: 1.196 ppbv
RT: 1.894 min Scan# 558
Delta R.T. -0.149 min
Lab File: VL042856.D
Acq: 13 Aug 2025 17:43

Tgt Ion: 59 Resp: 24090
Ion Ratio Lower Upper
59 100
57 10.0 9.0 13.4





#19

Isopropyl Alcohol

Concen: 61.679 ppbv

RT: 1.890 min Scan# 51

Delta R.T. 0.003 min

Lab File: VL042856.D

Acq: 13 Aug 2025 17:43

Instrument :

MSVOA_L

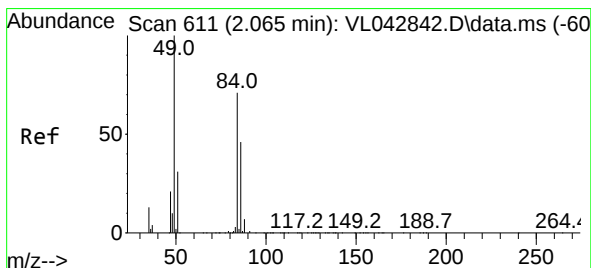
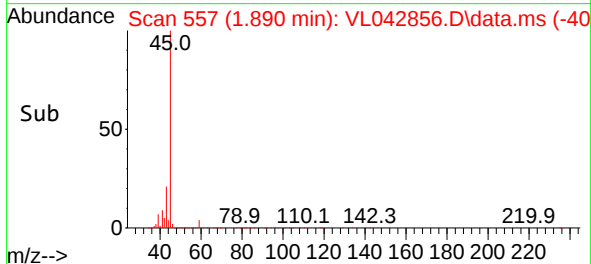
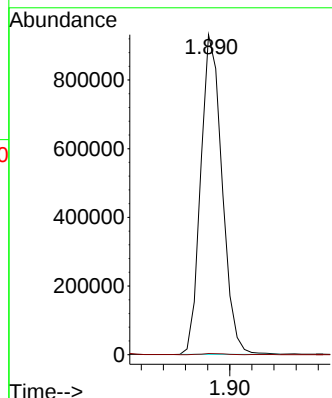
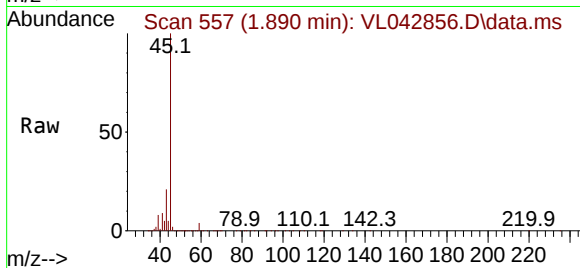
ClientSampleId :

Tgt Ion: 45 Resp: 625704

Ion Ratio Lower Upper

45 100

58 24.7 32.7 49.1#



#20

Methylene Chloride

Concen: 0.912 ppbv

RT: 2.068 min Scan# 612

Delta R.T. 0.003 min

Lab File: VL042856.D

Acq: 13 Aug 2025 17:43

Tgt Ion: 84 Resp: 6492

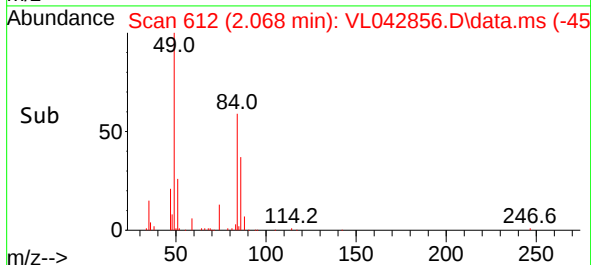
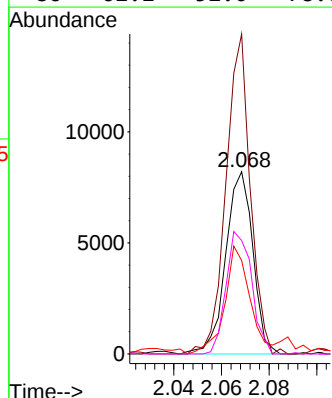
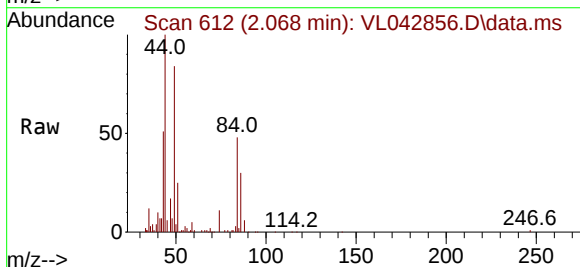
Ion Ratio Lower Upper

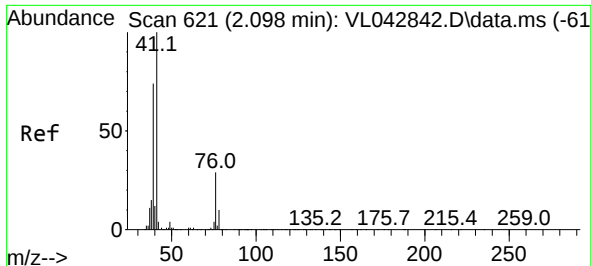
84 100

49 175.6 112.3 168.5#

51 48.6 36.0 54.0

86 62.2 52.0 78.0

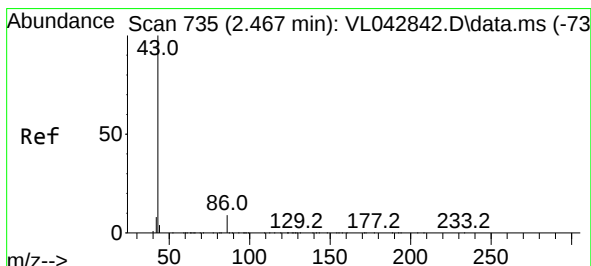
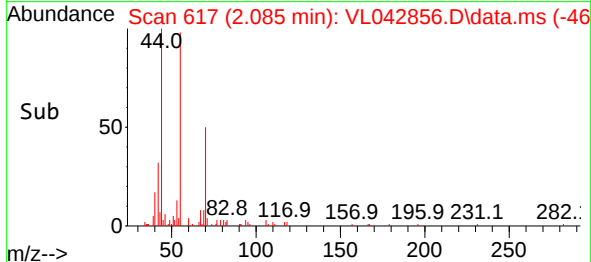
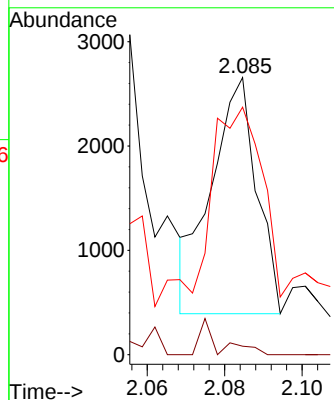
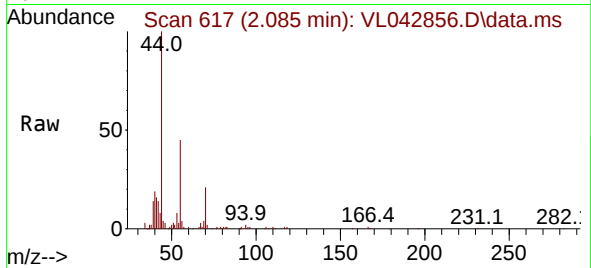




#21
 Allyl Chloride
 Concen: 0.154 ppbv
 RT: 2.085 min Scan# 61
 Delta R.T. -0.013 min
 Lab File: VL042856.D
 Acq: 13 Aug 2025 17:43

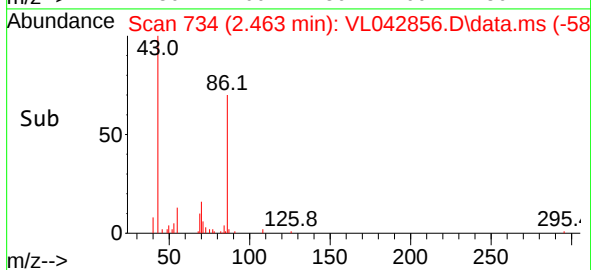
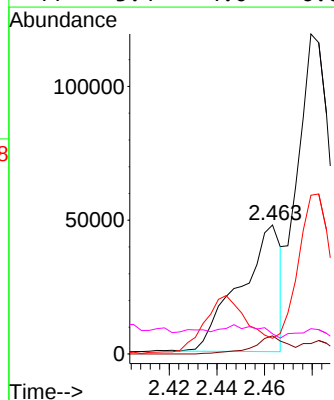
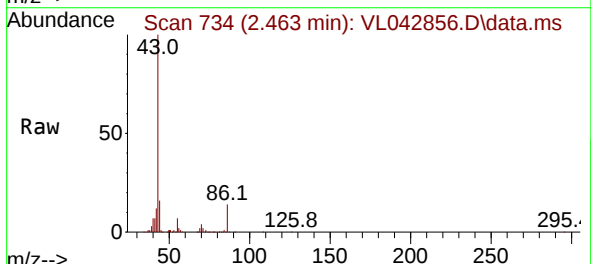
Instrument :
 MSVOA_L
 ClientSampleId :

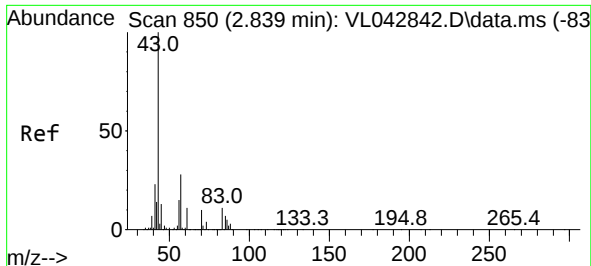
Tgt Ion: 41 Resp: 1844
 Ion Ratio Lower Upper
 41 100
 76 11.9 23.9 35.9#
 39 184.2 57.8 86.6#



#23
 Vinyl Acetate
 Concen: 2.405 ppbv
 RT: 2.463 min Scan# 734
 Delta R.T. -0.003 min
 Lab File: VL042856.D
 Acq: 13 Aug 2025 17:43

Tgt Ion: 43 Resp: 56173
 Ion Ratio Lower Upper
 43 100
 86 14.4 6.6 9.8#
 42 9.6 7.0 10.6
 44 3.4 4.0 6.0#

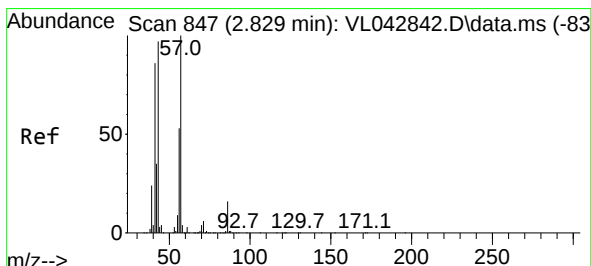
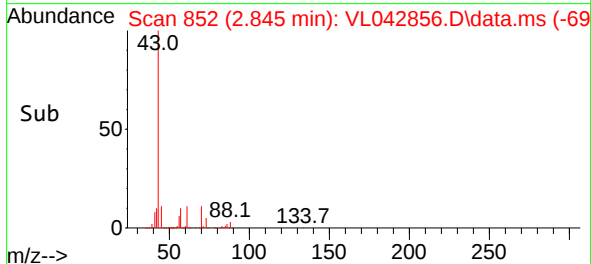
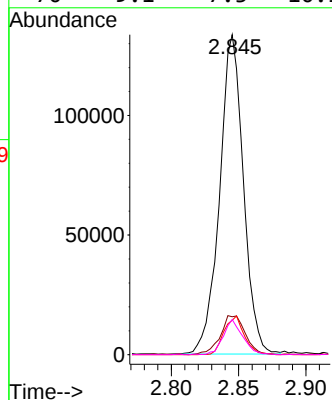
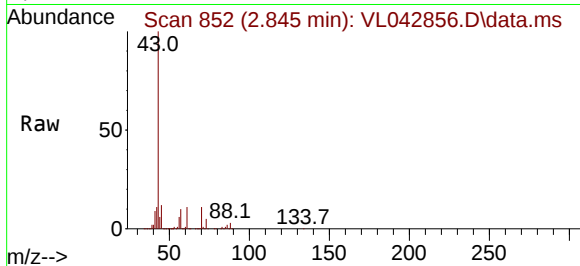




#25
Ethyl Acetate
Concen: 3.993 ppbv
RT: 2.845 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042856.D
Acq: 13 Aug 2025 17:43

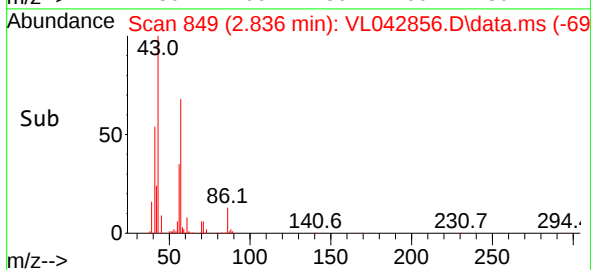
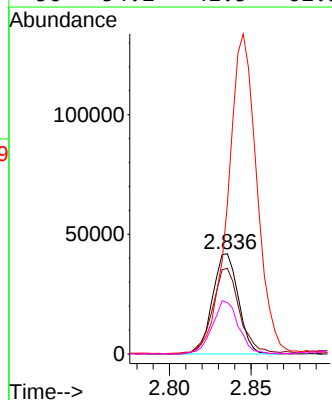
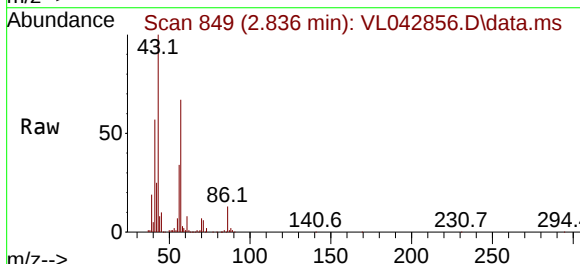
Instrument :
MSVOA_L
ClientSampleId :

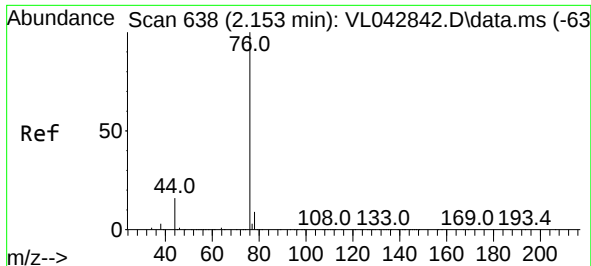
Tgt Ion: 43 Resp: 164136
Ion Ratio Lower Upper
43 100
45 13.4 8.1 12.1#
61 10.3 7.4 11.2
70 9.1 7.3 10.9



#26
Hexane
Concen: 2.425 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.006 min
Lab File: VL042856.D
Acq: 13 Aug 2025 17:43

Tgt Ion: 57 Resp: 46019
Ion Ratio Lower Upper
57 100
41 91.2 68.6 103.0
43 360.6 168.5 252.7#
56 54.2 41.5 62.3





#27

Carbon Disulfide

Concen: 0.072 ppbv

RT: 2.156 min Scan# 61

Delta R.T. 0.003 min

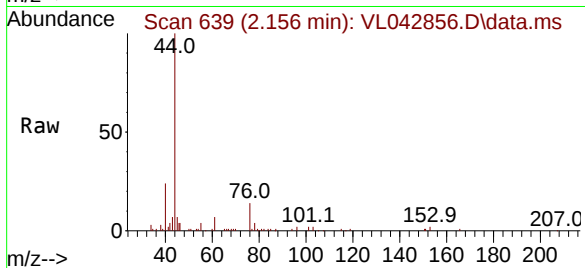
Lab File: VL042856.D

Acq: 13 Aug 2025 17:43

Instrument :

MSVOA_L

ClientSampleId :



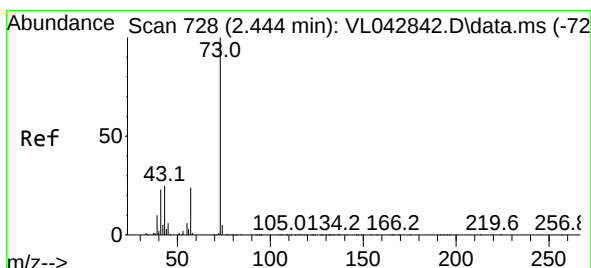
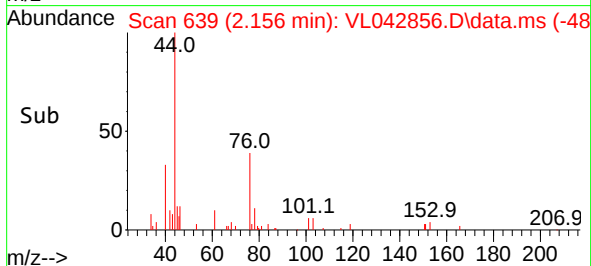
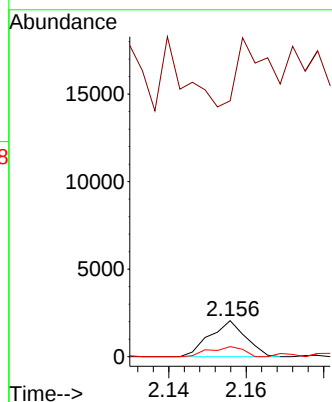
Tgt Ion: 76 Resp: 1325

Ion Ratio Lower Upper

76 100

44 462.7 15.9 23.9#

78 45.2 9.5 14.3#



#28

Methyl tert-Butyl Ether

Concen: 0.187 ppbv

RT: 2.447 min Scan# 729

Delta R.T. 0.003 min

Lab File: VL042856.D

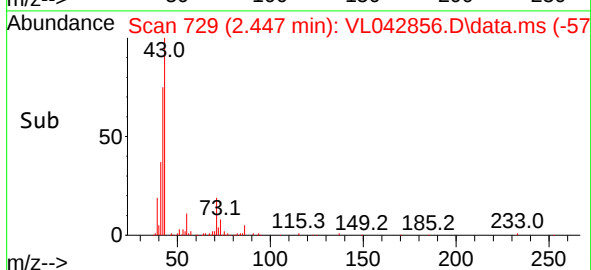
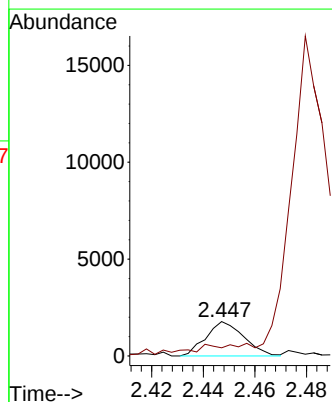
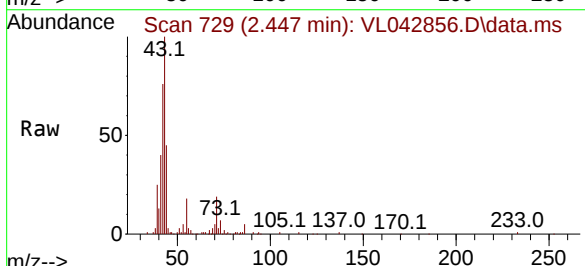
Acq: 13 Aug 2025 17:43

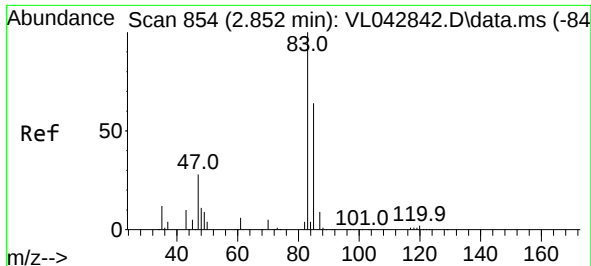
Tgt Ion: 73 Resp: 1810

Ion Ratio Lower Upper

73 100

57 0.0 21.6 32.4#





#29

Chloroform

Concen: 0.288 ppbv

RT: 2.855 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042856.D

Acq: 13 Aug 2025 17:43

Instrument :

MSVOA_L

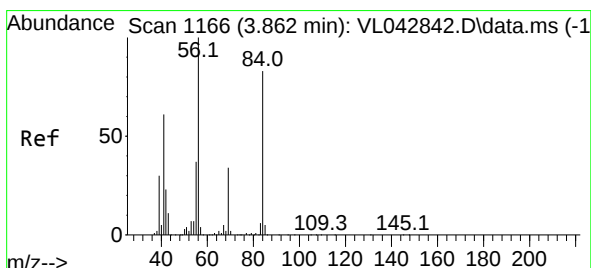
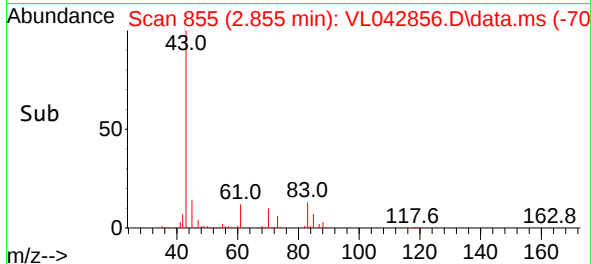
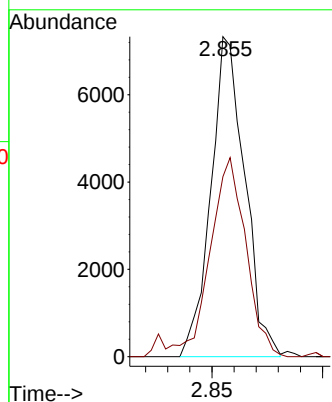
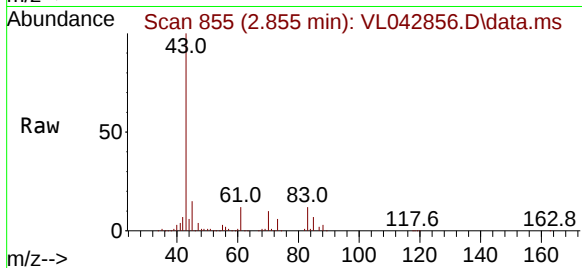
ClientSampleId :

Tgt Ion: 83 Resp: 7795

Ion Ratio Lower Upper

83 100

85 55.6 51.1 76.7



#30

Cyclohexane

Concen: 0.626 ppbv

RT: 3.868 min Scan# 1168

Delta R.T. 0.006 min

Lab File: VL042856.D

Acq: 13 Aug 2025 17:43

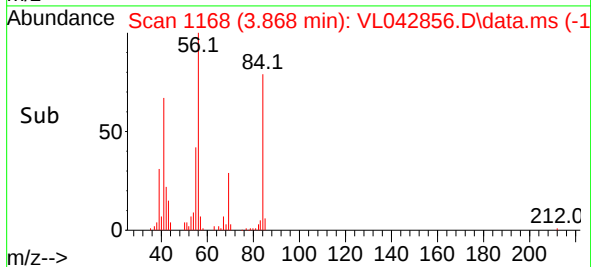
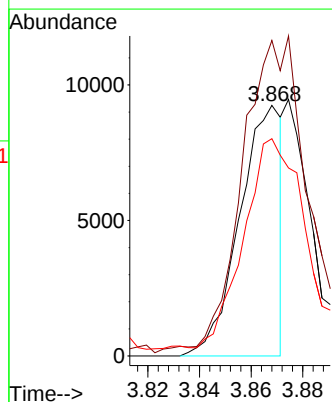
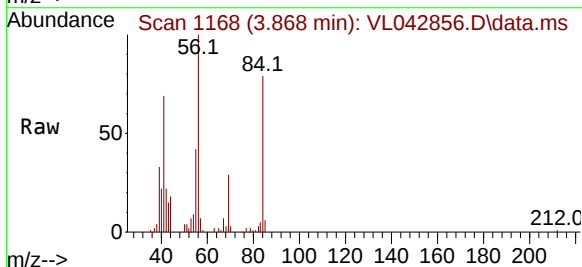
Tgt Ion: 84 Resp: 10419

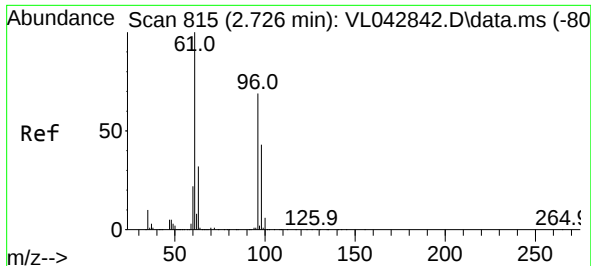
Ion Ratio Lower Upper

84 100

56 0.0 98.8 148.2#

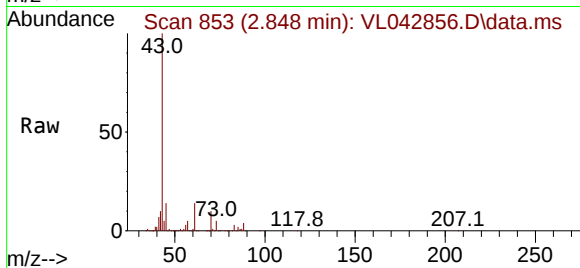
41 124.5 61.3 91.9#



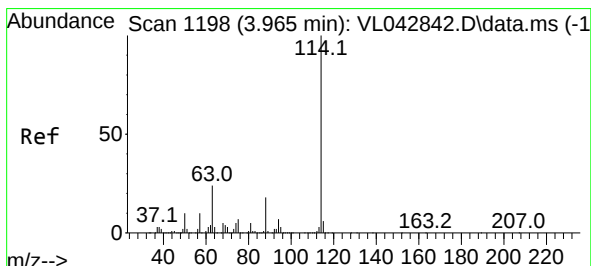
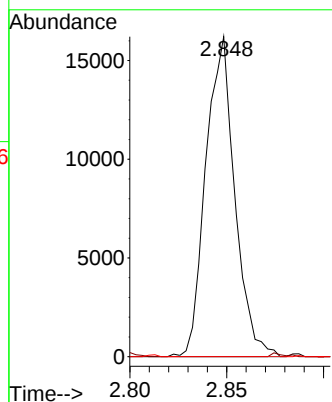
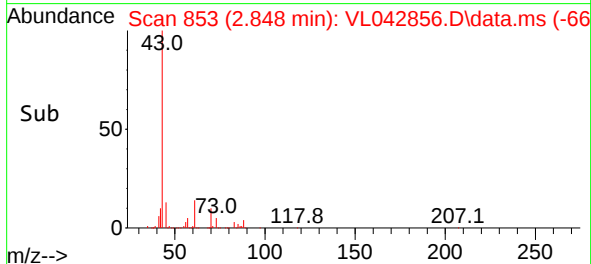


#31
 cis-1,2-Dichloroethene
 Concen: 0.889 ppbv
 RT: 2.848 min Scan# 815
 Delta R.T. 0.123 min
 Lab File: VL042856.D
 Acq: 13 Aug 2025 17:43

Instrument :
 MSVOA_L
 ClientSampleId :

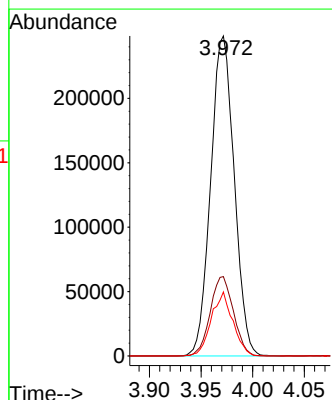
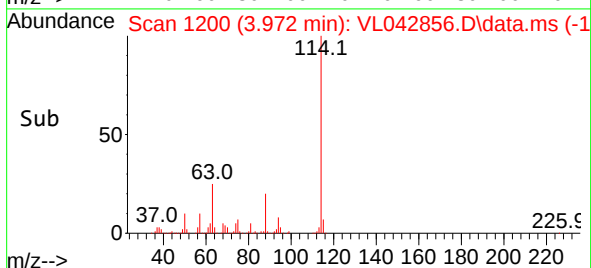
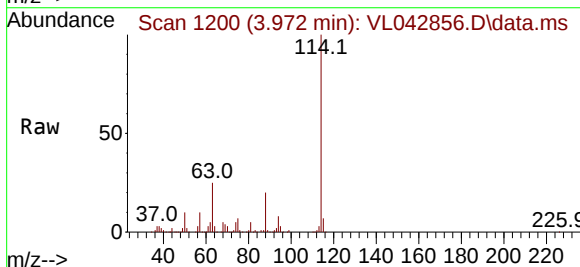


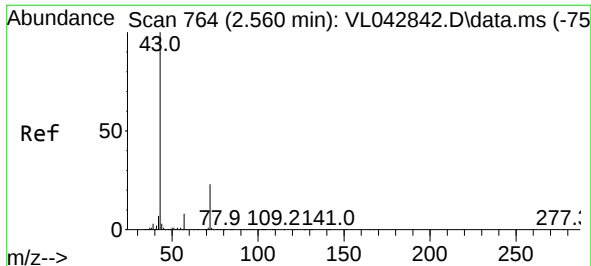
Tgt Ion: 61 Resp: 16850
 Ion Ratio Lower Upper
 61 100
 96 0.0 55.0 82.6#
 98 0.0 34.3 51.5#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.972 min Scan# 1200
 Delta R.T. 0.006 min
 Lab File: VL042856.D
 Acq: 13 Aug 2025 17:43

Tgt Ion: 114 Resp: 393431
 Ion Ratio Lower Upper
 114 100
 63 24.5 19.7 29.5
 88 18.3 14.4 21.6

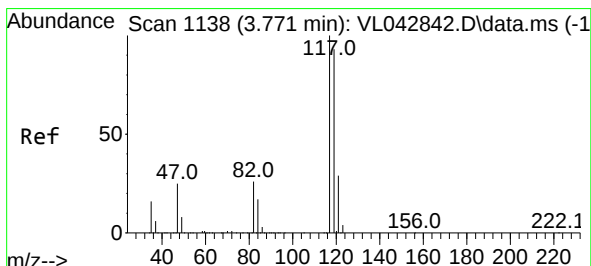
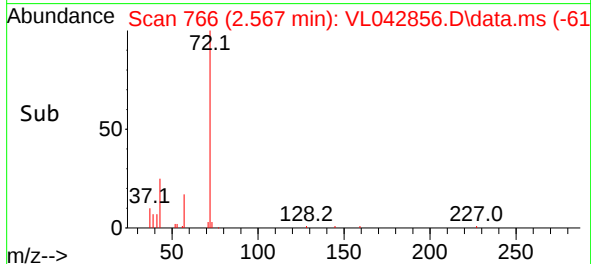
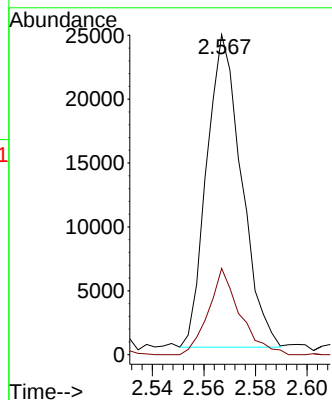
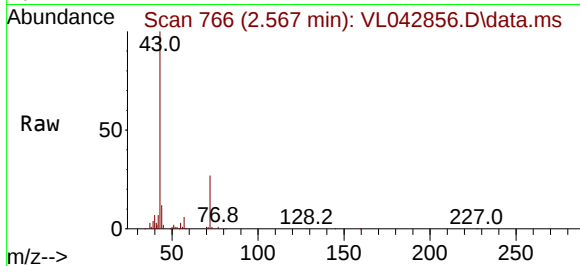




#34
2-Butanone
Concen: 0.865 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.006 min
Lab File: VL042856.D
Acq: 13 Aug 2025 17:43

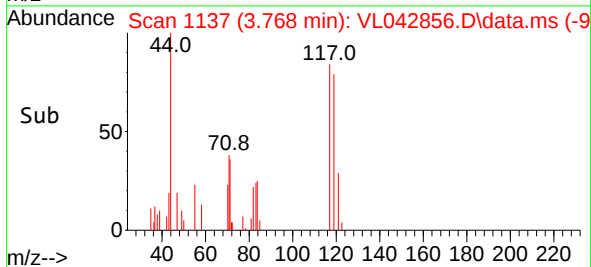
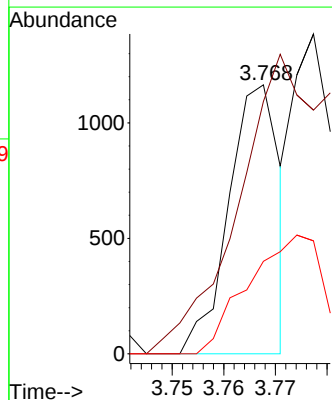
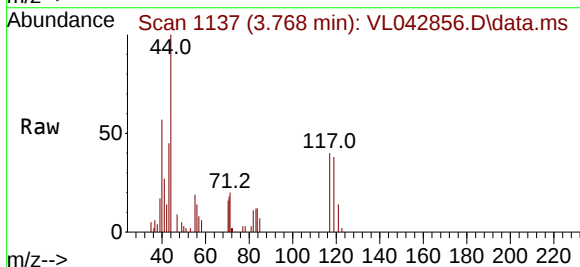
Instrument :
MSVOA_L
ClientSampleId :

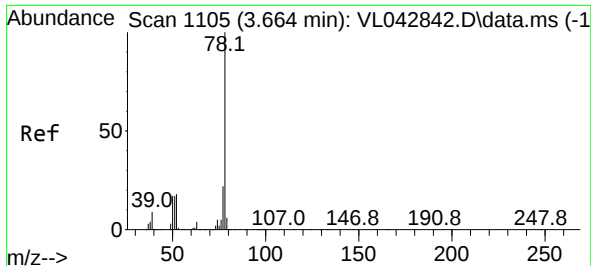
Tgt Ion: 43 Resp: 22988
Ion Ratio Lower Upper
43 100
72 24.9 18.6 28.0



#35
Carbon Tetrachloride
Concen: 0.030 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. -0.003 min
Lab File: VL042856.D
Acq: 13 Aug 2025 17:43

Tgt Ion: 117 Resp: 802
Ion Ratio Lower Upper
117 100
119 82.3 74.7 112.1
121 34.4 23.2 34.8

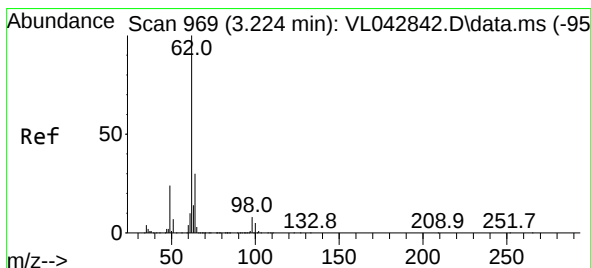
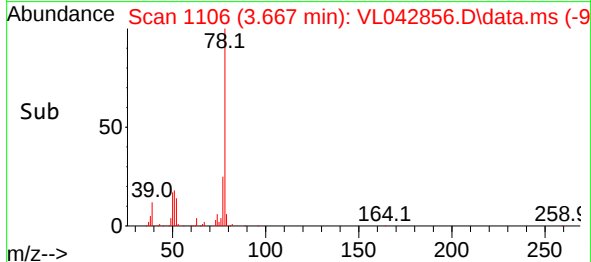
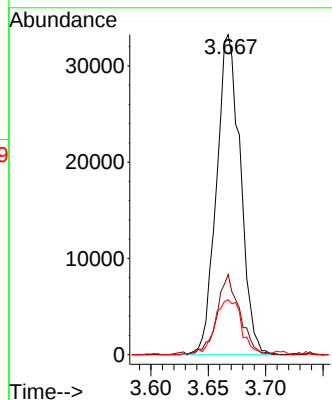
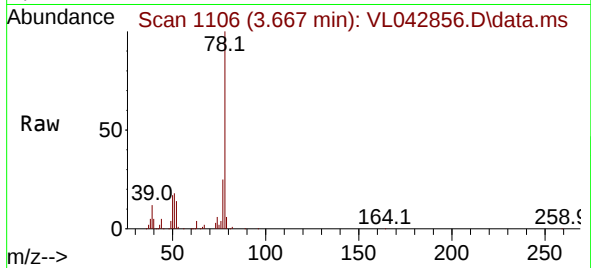




#36
Benzene
Concen: 1.278 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. 0.003 min
Lab File: VL042856.D
Acq: 13 Aug 2025 17:43

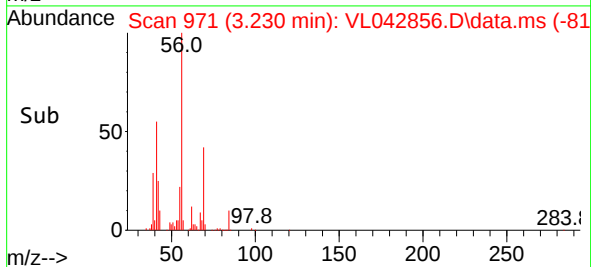
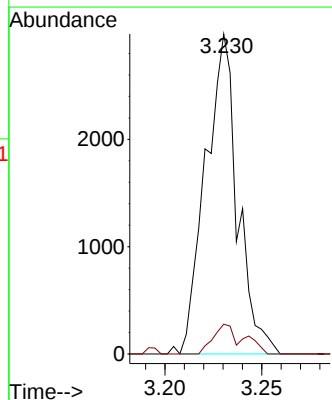
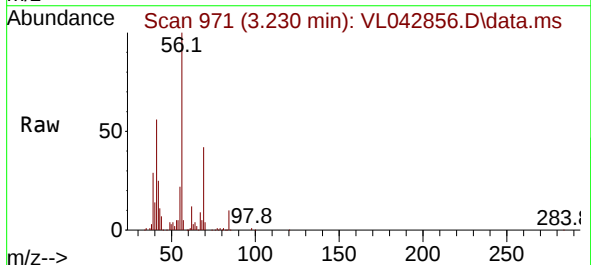
Instrument :
MSVOA_L
ClientSampleId :

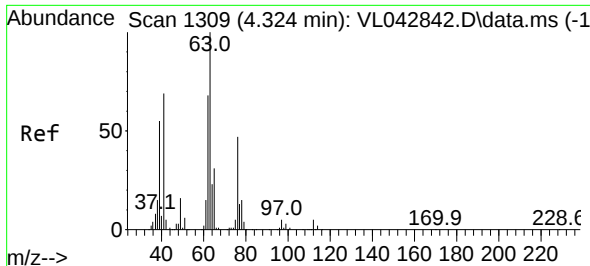
Tgt Ion: 78 Resp: 48134
Ion Ratio Lower Upper
78 100
77 25.1 17.7 26.5
50 17.1 13.9 20.9



#37
1,2-Dichloroethane
Concen: 0.174 ppbv
RT: 3.230 min Scan# 971
Delta R.T. 0.006 min
Lab File: VL042856.D
Acq: 13 Aug 2025 17:43

Tgt Ion: 62 Resp: 3433
Ion Ratio Lower Upper
62 100
98 8.6 5.9 8.9





#39

1,2-Dichloropropane

Concen: 7.014 ppbv

RT: 3.972 min Scan# 11

Delta R.T. -0.353 min

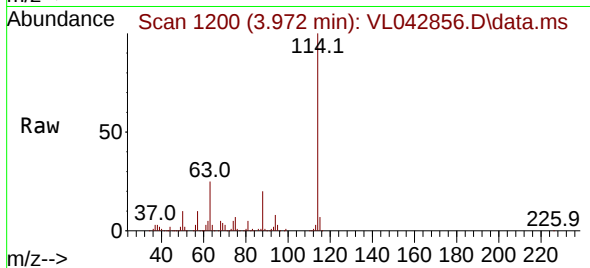
Lab File: VL042856.D

Acq: 13 Aug 2025 17:43

Instrument :

MSVOA_L

ClientSampleId :



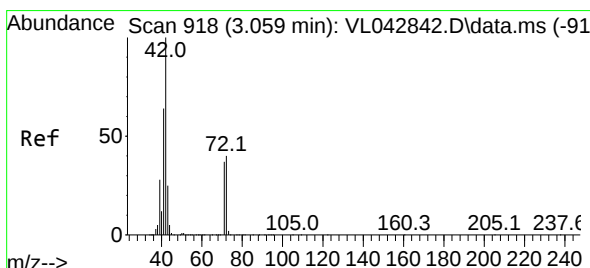
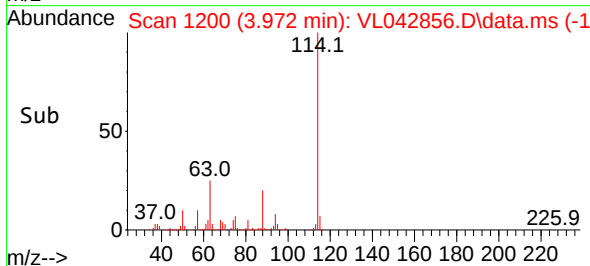
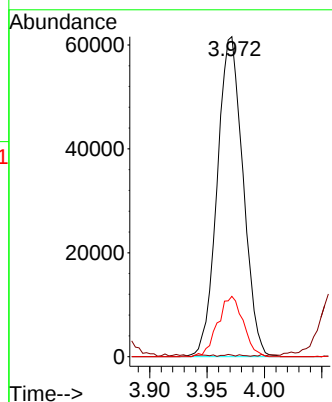
Tgt Ion: 63 Resp: 96508

Ion Ratio Lower Upper

63 100

41 0.0 55.0 82.4#

62 18.8 54.4 81.6#



#41

Tetrahydrofuran

Concen: 0.185 ppbv

RT: 3.075 min Scan# 923

Delta R.T. 0.016 min

Lab File: VL042856.D

Acq: 13 Aug 2025 17:43

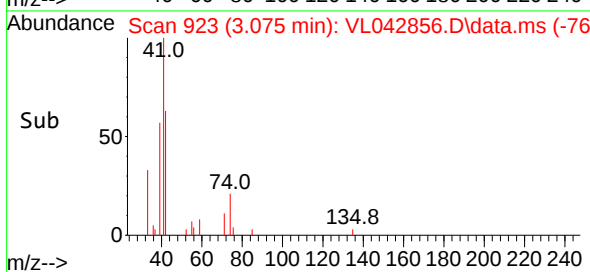
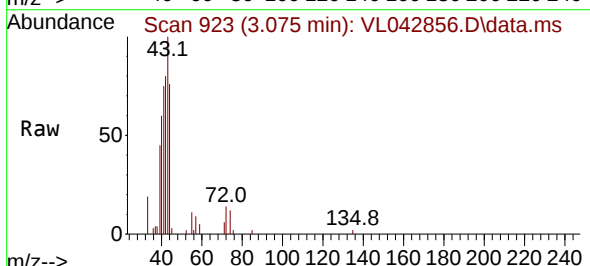
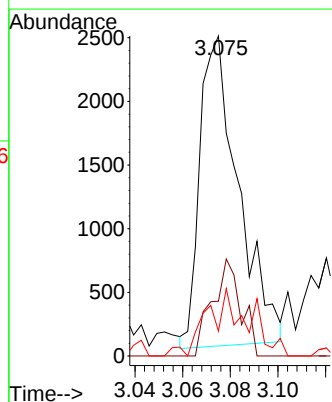
Tgt Ion: 42 Resp: 2733

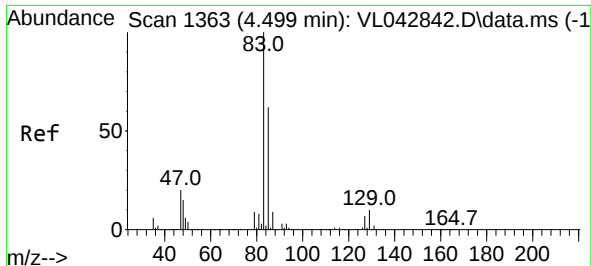
Ion Ratio Lower Upper

42 100

72 23.1 32.6 48.8#

71 25.5 30.0 45.0#

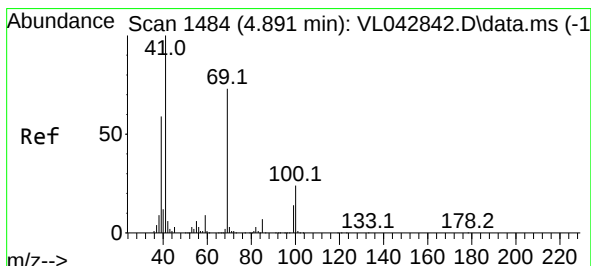
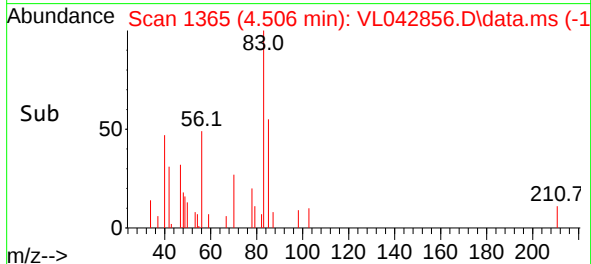
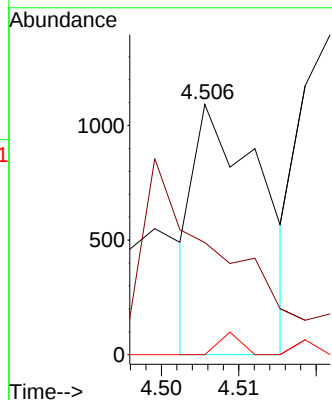
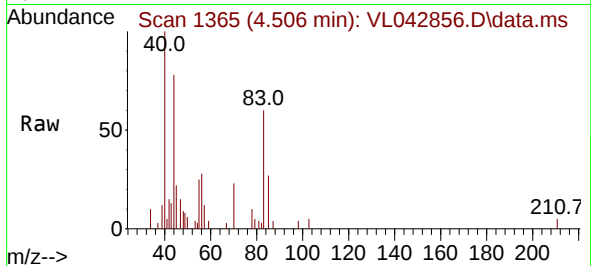




#42
Bromodichloromethane
Concen: 0.022 ppbv
RT: 4.506 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL042856.D
Acq: 13 Aug 2025 17:43

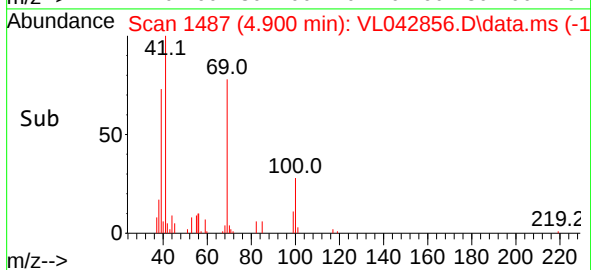
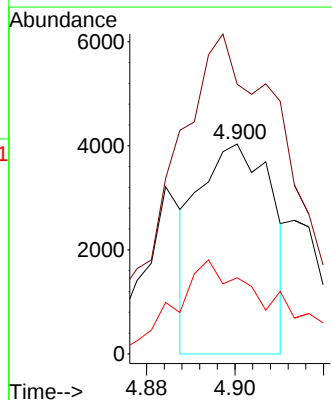
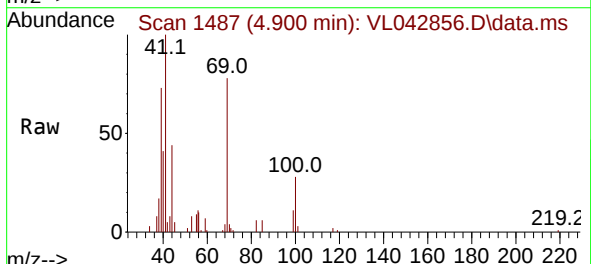
Instrument :
MSVOA_L
ClientSampleId :

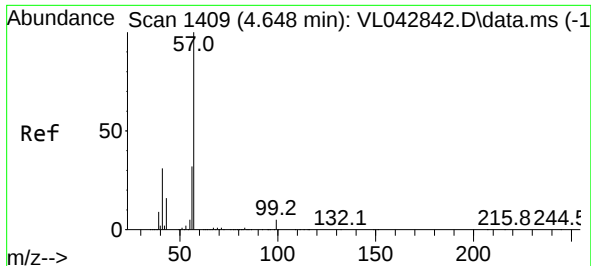
Tgt Ion: 83 Resp: 656
Ion Ratio Lower Upper
83 100
85 47.8 49.8 74.8#
127 0.0 5.8 8.6#



#43
Methyl Methacrylate
Concen: 0.301 ppbv
RT: 4.900 min Scan# 1487
Delta R.T. 0.010 min
Lab File: VL042856.D
Acq: 13 Aug 2025 17:43

Tgt Ion: 69 Resp: 4665
Ion Ratio Lower Upper
69 100
41 276.8 114.6 172.0#
100 64.7 30.2 45.4#





#44

2,2,4-Trimethylpentane

Concen: 2.298 ppbv

RT: 4.654 min Scan# 1409

Delta R.T. 0.006 min

Lab File: VL042856.D

Acq: 13 Aug 2025 17:43

Instrument :

MSVOA_L

ClientSampleId :

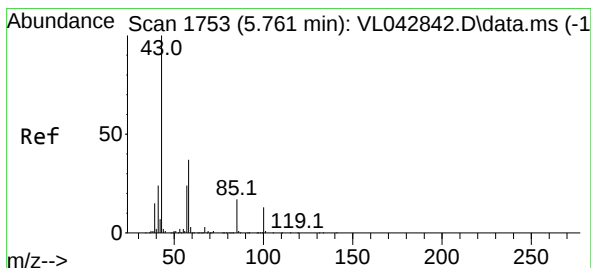
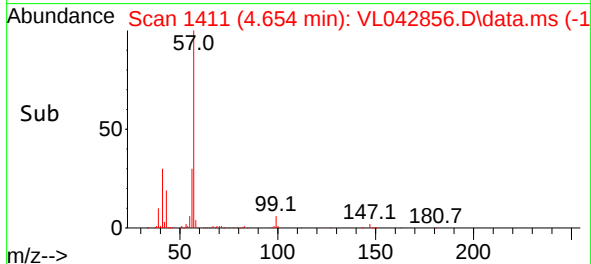
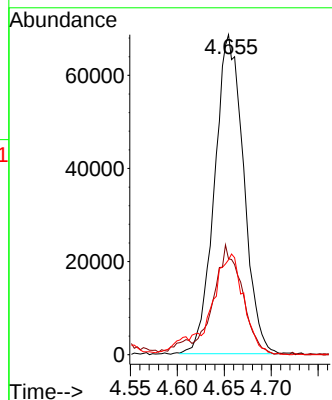
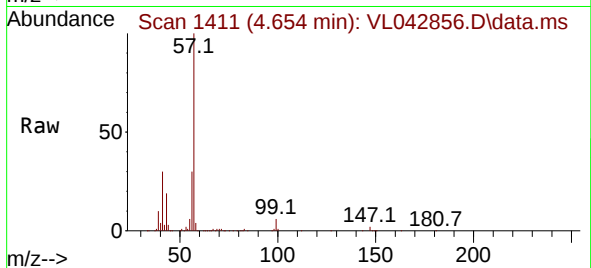
Tgt Ion: 57 Resp: 146940

Ion Ratio Lower Upper

57 100

41 36.7 24.8 37.2

56 37.3 25.5 38.3



#50

4-Methyl-2-Pentanone

Concen: 0.073 ppbv

RT: 5.784 min Scan# 1760

Delta R.T. 0.023 min

Lab File: VL042856.D

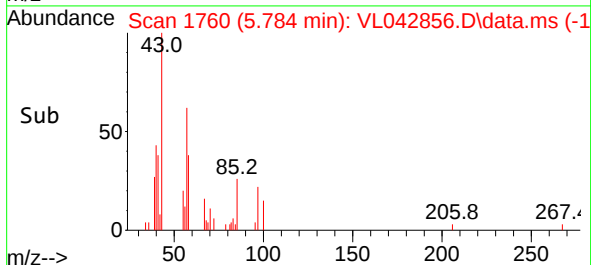
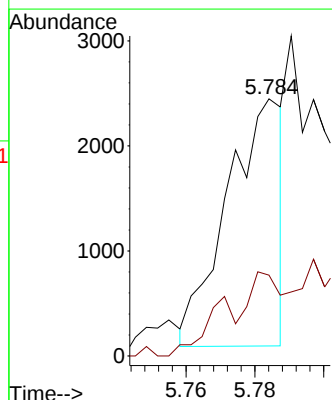
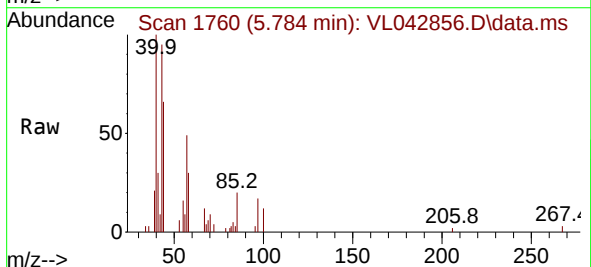
Acq: 13 Aug 2025 17:43

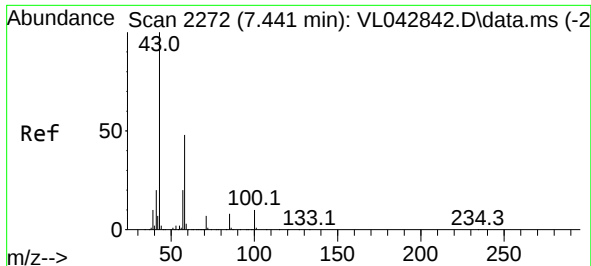
Tgt Ion: 43 Resp: 2622

Ion Ratio Lower Upper

43 100

58 0.0 29.8 44.8#

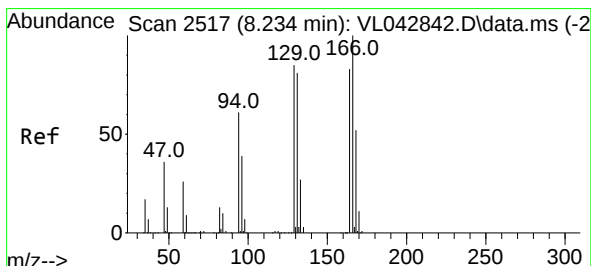
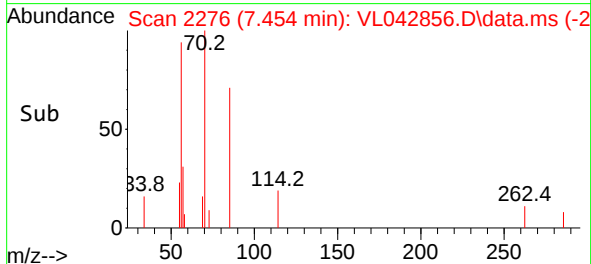
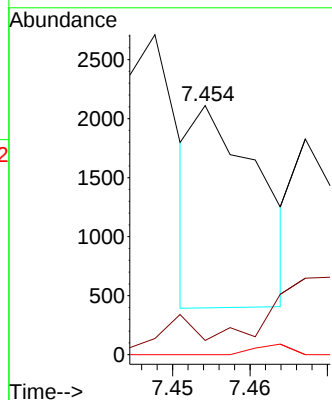
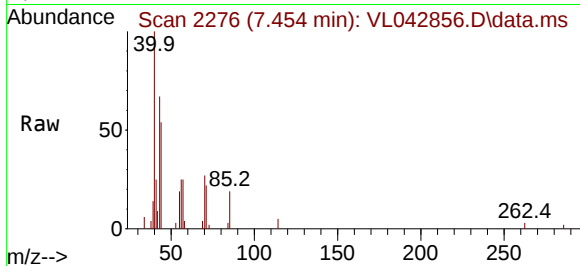




#51
2-Hexanone
Concen: 0.035 ppbv
RT: 7.454 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042856.D
Acq: 13 Aug 2025 17:43

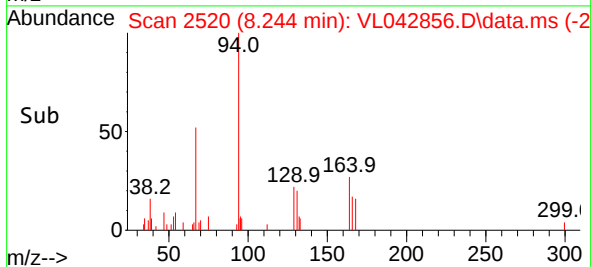
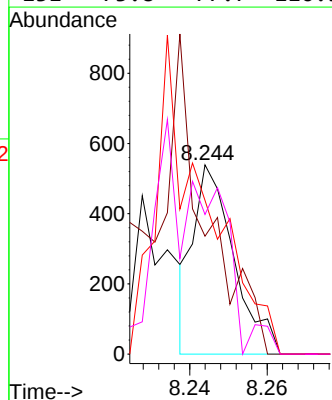
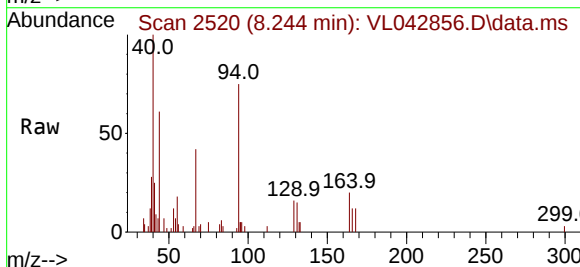
Instrument :
MSVOA_L
ClientSampleId :

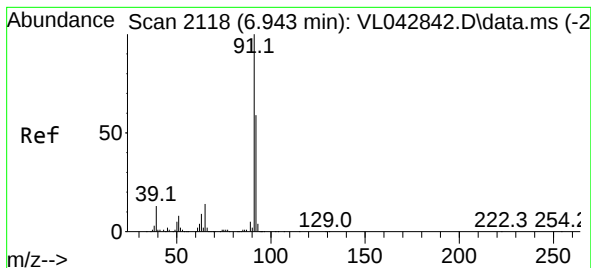
Tgt Ion: 43 Resp: 991
Ion Ratio Lower Upper
43 100
58 0.0 41.0 61.6#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.029 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. 0.010 min
Lab File: VL042856.D
Acq: 13 Aug 2025 17:43

Tgt Ion: 164 Resp: 389
Ion Ratio Lower Upper
164 100
166 62.3 96.5 144.7#
129 81.3 81.8 122.6#
131 73.8 77.7 116.5#





#53

Toluene

Concen: 11.009 ppbv

RT: 6.949 min Scan# 2118

Delta R.T. 0.006 min

Lab File: VL042856.D

Acq: 13 Aug 2025 17:43

Instrument :

MSVOA_L

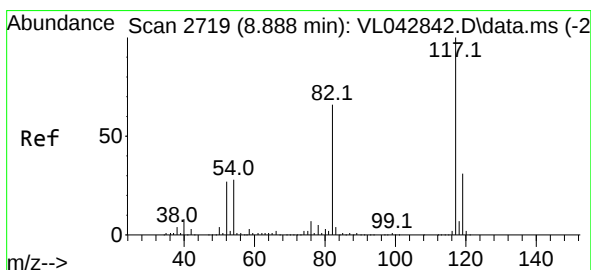
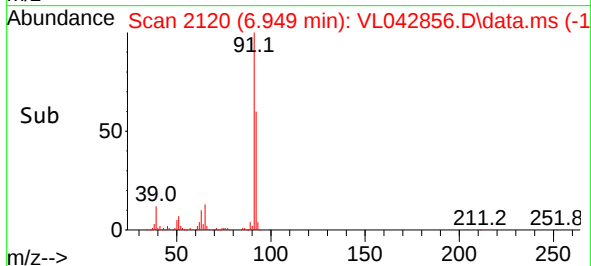
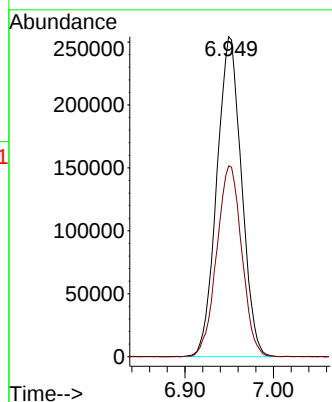
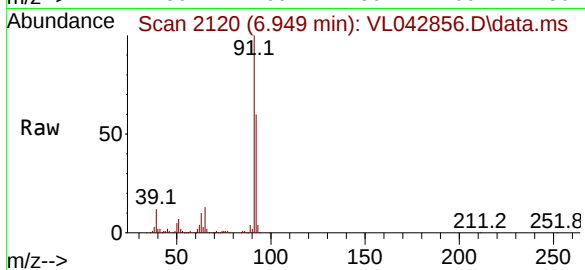
ClientSampleId :

Tgt Ion: 91 Resp: 493089

Ion Ratio Lower Upper

91 100

92 60.5 47.8 71.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.895 min Scan# 2721

Delta R.T. 0.006 min

Lab File: VL042856.D

Acq: 13 Aug 2025 17:43

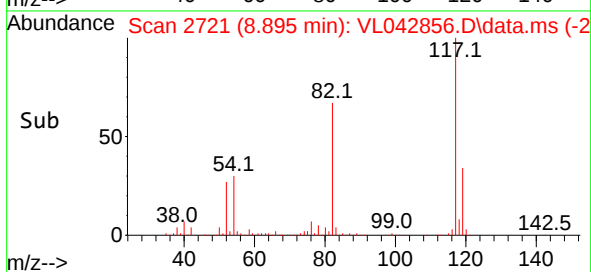
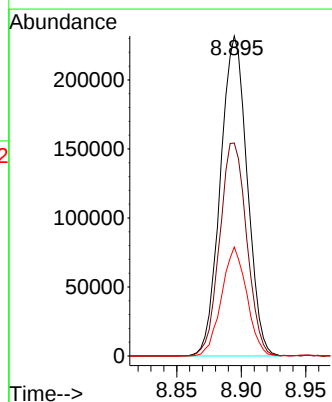
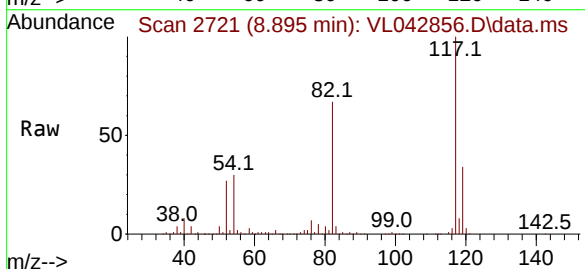
Tgt Ion: 117 Resp: 334635

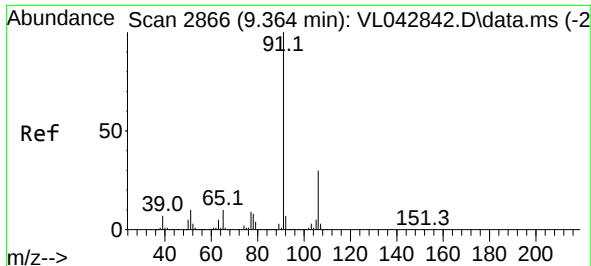
Ion Ratio Lower Upper

117 100

82 67.3 54.6 81.8

119 32.1 25.9 38.9

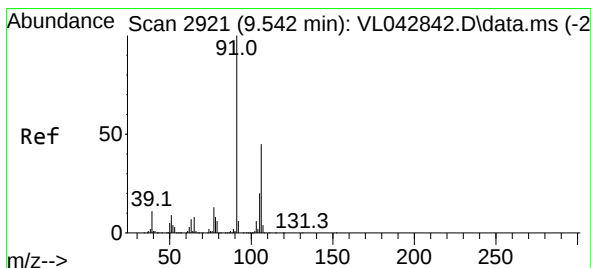
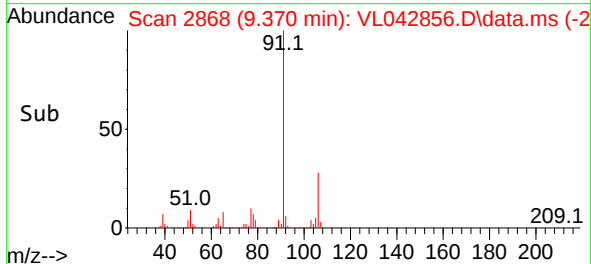
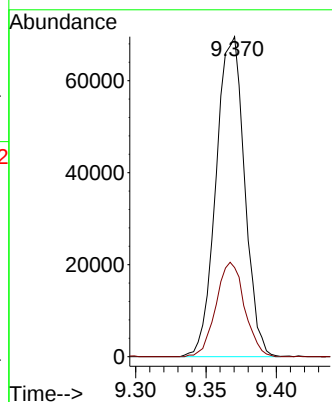
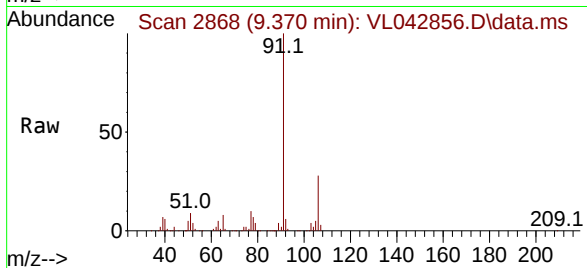




#58
Ethyl Benzene
Concen: 1.661 ppbv
RT: 9.370 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042856.D
Acq: 13 Aug 2025 17:43

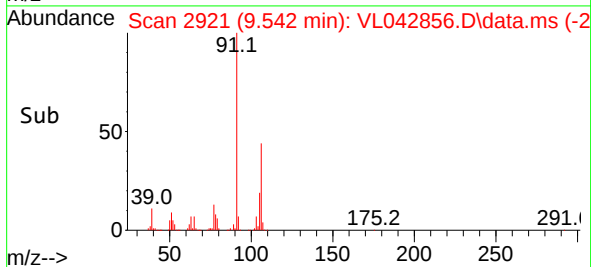
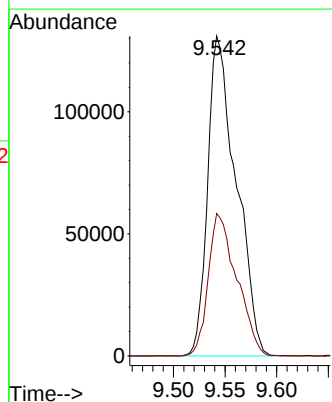
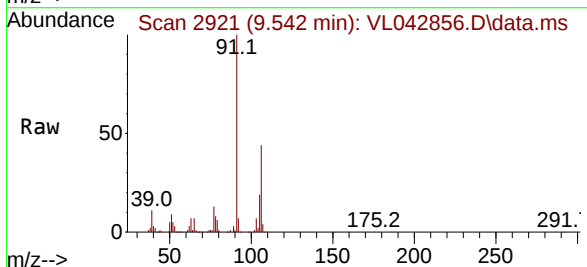
Instrument :
MSVOA_L
ClientSampleId :

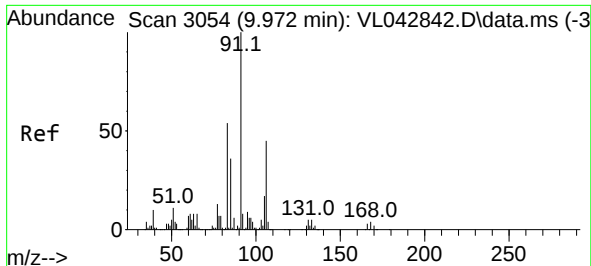
Tgt Ion: 91 Resp: 98105
Ion Ratio Lower Upper
91 100
106 27.9 23.9 35.9



#59
m/p-Xylene
Concen: 5.429 ppbv
RT: 9.542 min Scan# 2921
Delta R.T. -0.000 min
Lab File: VL042856.D
Acq: 13 Aug 2025 17:43

Tgt Ion: 91 Resp: 251271
Ion Ratio Lower Upper
91 100
106 44.6 0.0 0.0#

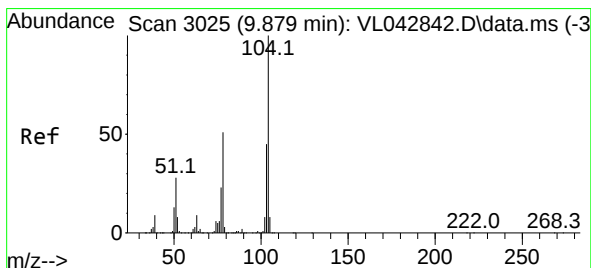
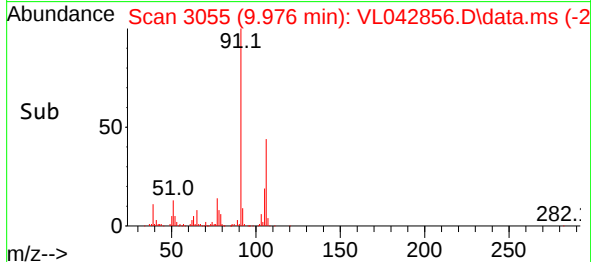
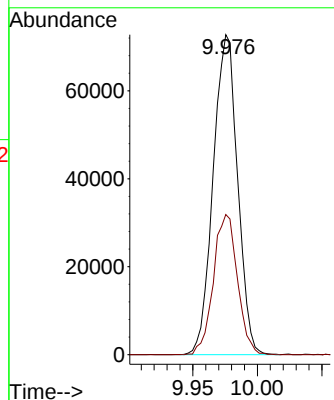
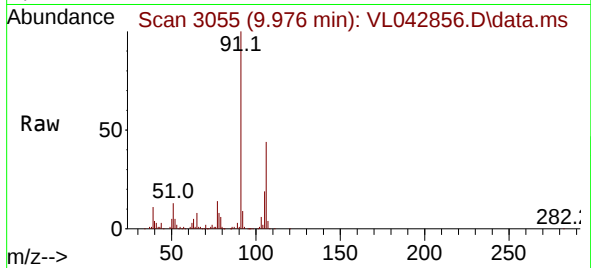




#60
o-Xylene
Concen: 2.053 ppbv
RT: 9.976 min Scan# 3054
Delta R.T. 0.003 min
Lab File: VL042856.D
Acq: 13 Aug 2025 17:43

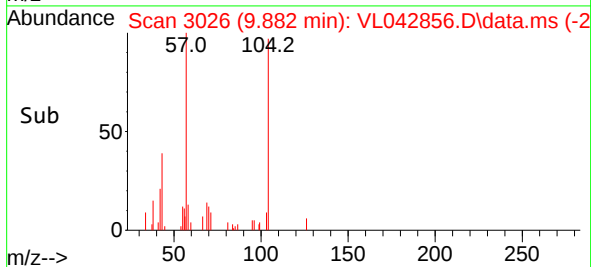
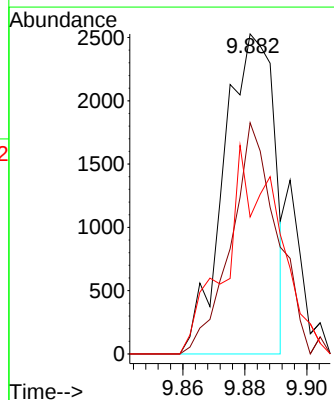
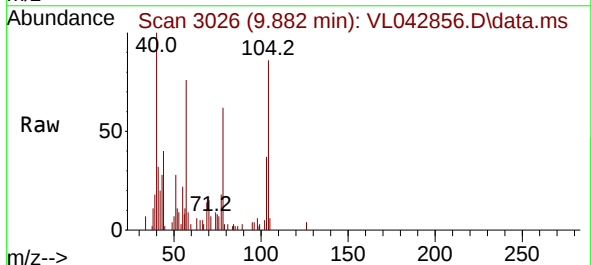
Instrument :
MSVOA_L
ClientSampleId :

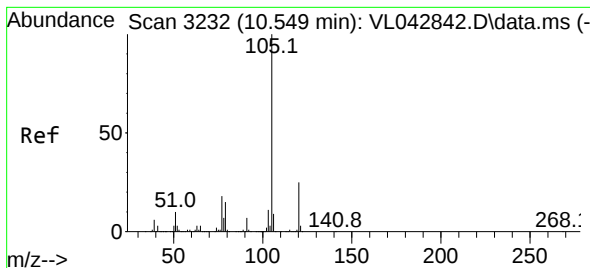
Tgt Ion: 91 Resp: 95586
Ion Ratio Lower Upper
91 100
106 43.1 21.8 65.4



#61
Styrene
Concen: 0.131 ppbv
RT: 9.882 min Scan# 3026
Delta R.T. 0.003 min
Lab File: VL042856.D
Acq: 13 Aug 2025 17:43

Tgt Ion: 104 Resp: 2866
Ion Ratio Lower Upper
104 100
78 66.2 40.6 61.0#
103 68.0 37.7 56.5#





#62

Isopropylbenzene

Concen: 0.112 ppbv

RT: 10.552 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL042856.D

Acq: 13 Aug 2025 17:43

Instrument :

MSVOA_L

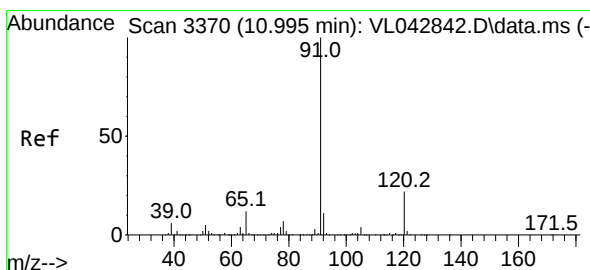
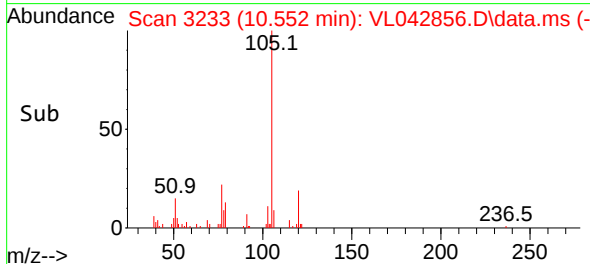
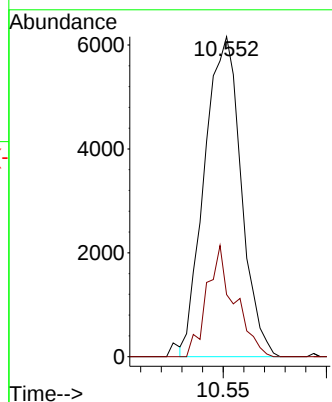
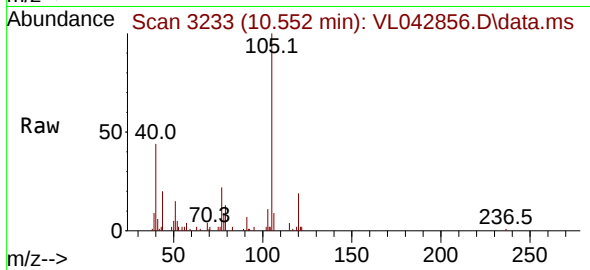
ClientSampleId :

Tgt Ion:105 Resp: 7611

Ion Ratio Lower Upper

105 100

120 26.2 20.6 30.8



#64

n-propylbenzene

Concen: 0.346 ppbv

RT: 10.998 min Scan# 3371

Delta R.T. 0.003 min

Lab File: VL042856.D

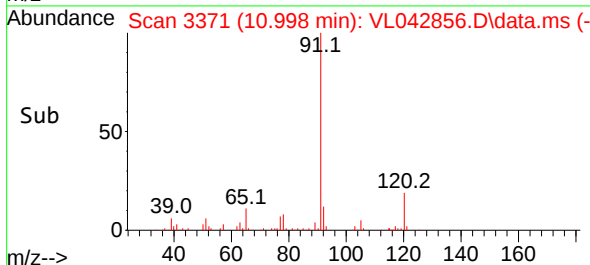
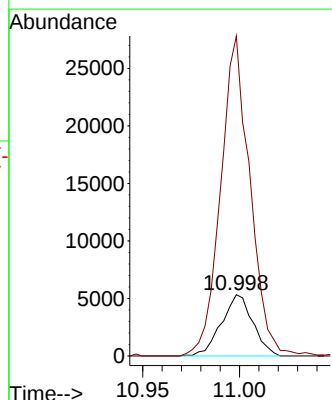
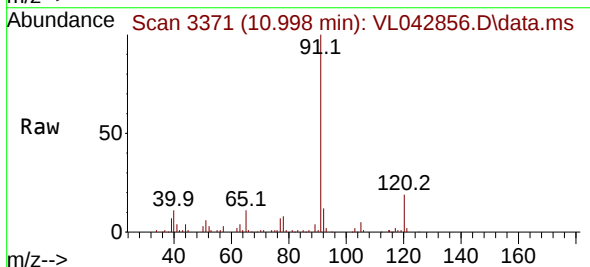
Acq: 13 Aug 2025 17:43

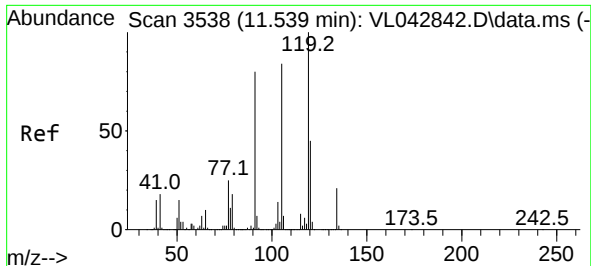
Tgt Ion:120 Resp: 6004

Ion Ratio Lower Upper

120 100

91 490.9 375.8 563.6

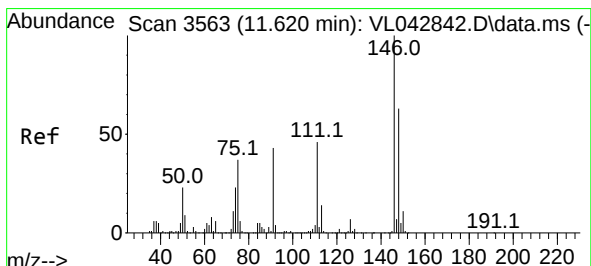
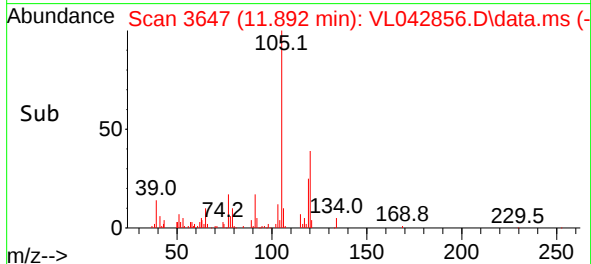
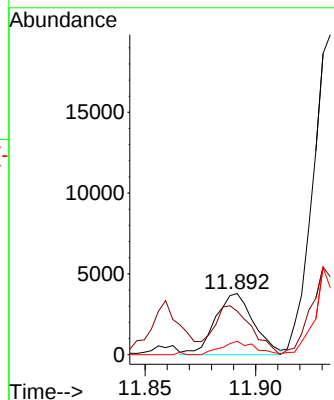
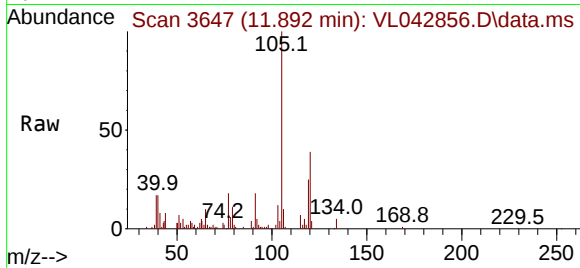




#65
tert-Butylbenzene
Concen: 0.076 ppbv
RT: 11.892 min Scan# 30
Delta R.T. 0.353 min
Lab File: VL042856.D
Acq: 13 Aug 2025 17:43

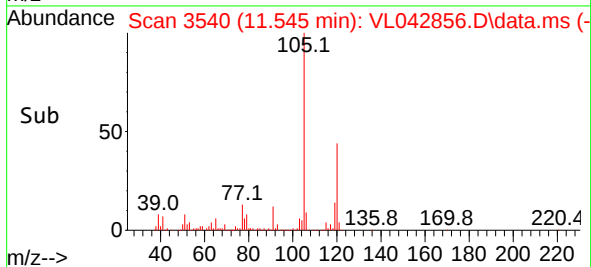
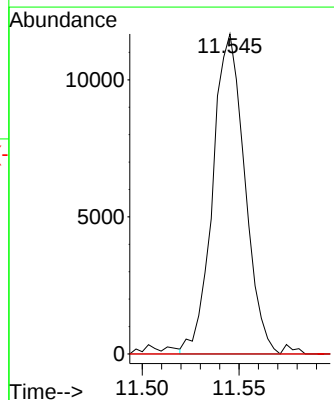
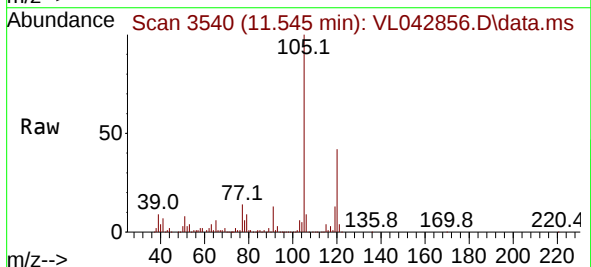
Instrument :
MSVOA_L
ClientSampleId :

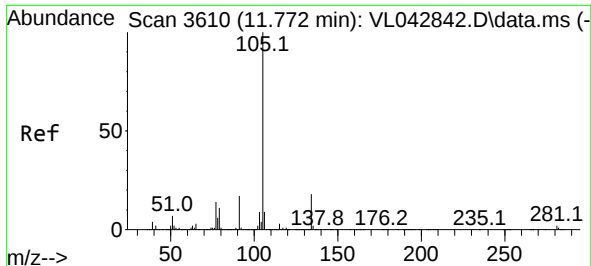
Tgt Ion:119 Resp: 4586
Ion Ratio Lower Upper
119 100
91 79.4 63.9 95.9
134 19.6 17.0 25.4



#66
Benzyl Chloride
Concen: 1.757 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. -0.075 min
Lab File: VL042856.D
Acq: 13 Aug 2025 17:43

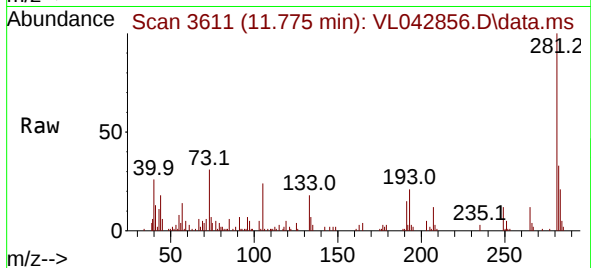
Tgt Ion: 91 Resp: 13380
Ion Ratio Lower Upper
91 100
126 0.0 14.2 21.4#
128 0.0 5.0 7.6#



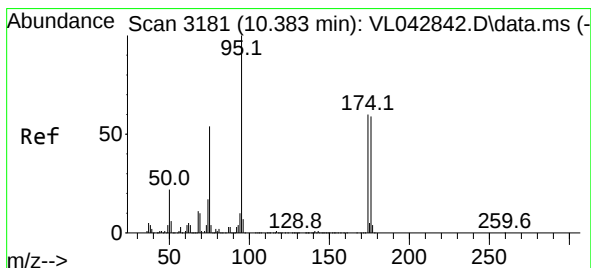
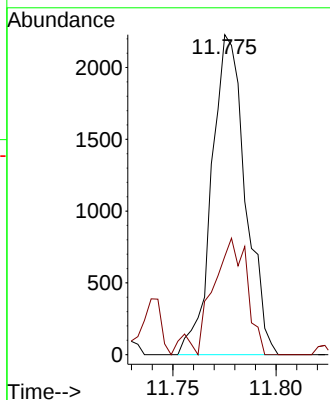
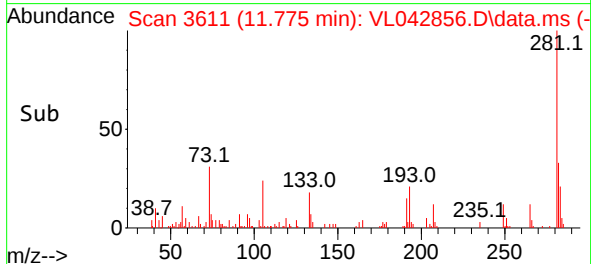


#67
sec-Butylbenzene
Concen: 0.030 ppbv
RT: 11.775 min Scan# 3611
Delta R.T. 0.003 min
Lab File: VL042856.D
Acq: 13 Aug 2025 17:43

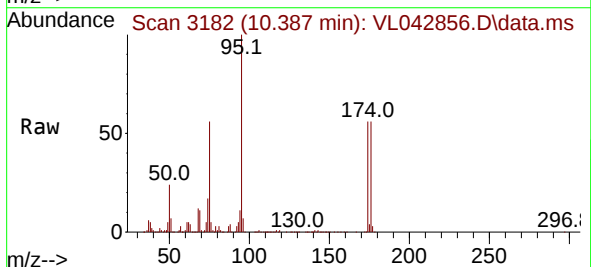
Instrument :
MSVOA_L
ClientSampleId :



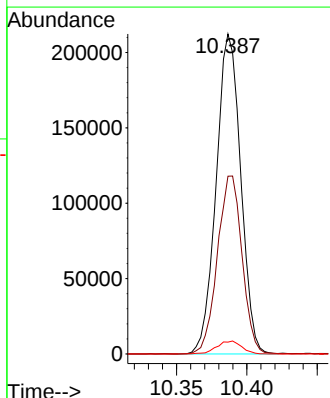
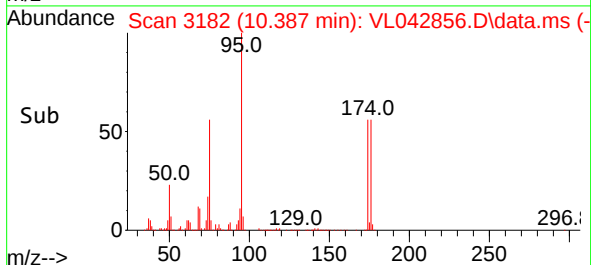
Tgt Ion:105 Resp: 2528
Ion Ratio Lower Upper
105 100
134 48.5 14.9 22.3#

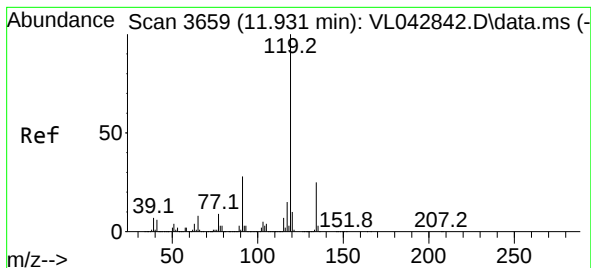


#68
1-Bromo-4-Fluorobenzene
Concen: 10.276 ppbv
RT: 10.387 min Scan# 3182
Delta R.T. 0.003 min
Lab File: VL042856.D
Acq: 13 Aug 2025 17:43



Tgt Ion: 95 Resp: 257886
Ion Ratio Lower Upper
95 100
174 55.9 48.4 72.6
175 4.1 3.8 5.8





#69

p-Isopropyltoluene

Concen: 0.284 ppbv

RT: 11.934 min Scan# 30

Delta R.T. 0.003 min

Lab File: VL042856.D

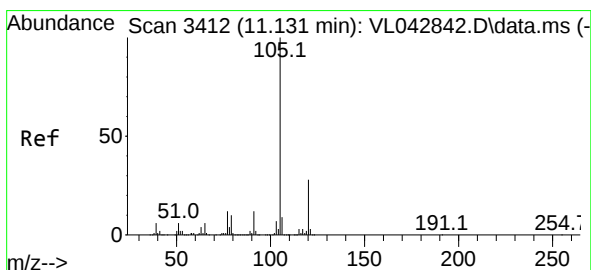
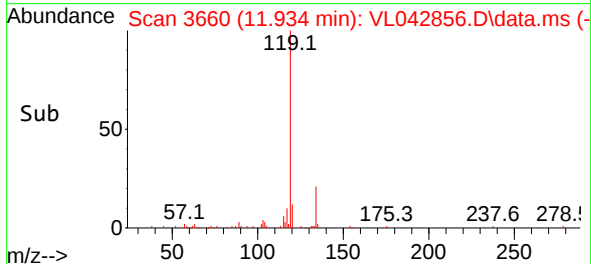
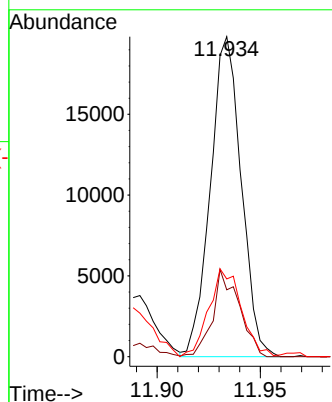
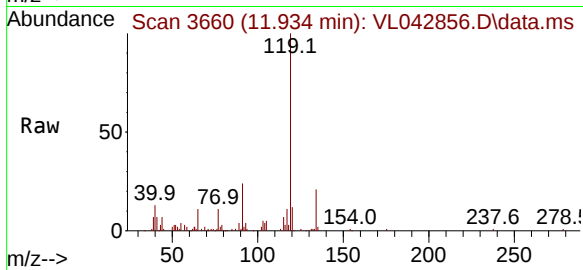
Acq: 13 Aug 2025 17:43

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:119	Resp:	20563
Ion Ratio	Lower	Upper
119	100	
134	23.4	20.6 30.8
91	29.4	22.6 34.0



#72

4-Ethyltoluene

Concen: 0.543 ppbv

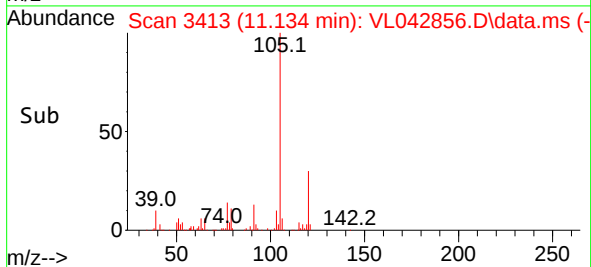
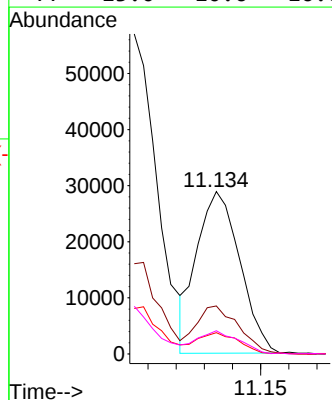
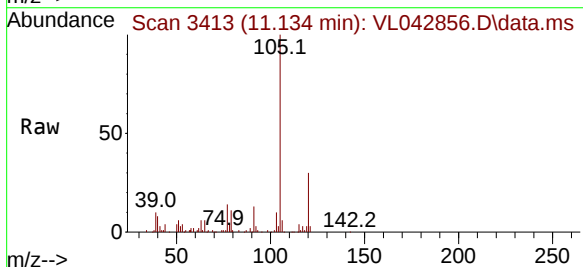
RT: 11.134 min Scan# 3413

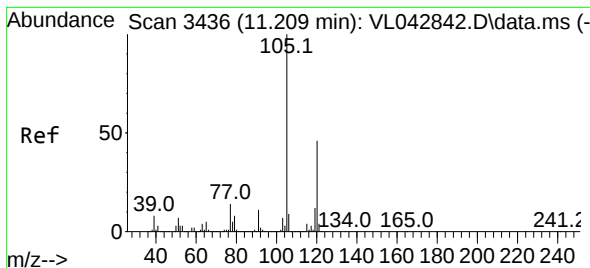
Delta R.T. 0.003 min

Lab File: VL042856.D

Acq: 13 Aug 2025 17:43

Tgt Ion:105	Resp:	30628
Ion Ratio	Lower	Upper
105	100	
120	0.0	23.4 35.2#
91	0.0	9.8 14.6#
77	13.0	10.6 16.0





#73

1,3,5-Trimethylbenzene

Concen: 0.485 ppbv

RT: 11.212 min Scan# 34

Delta R.T. 0.003 min

Lab File: VL042856.D

Acq: 13 Aug 2025 17:43

Instrument :

MSVOA_L

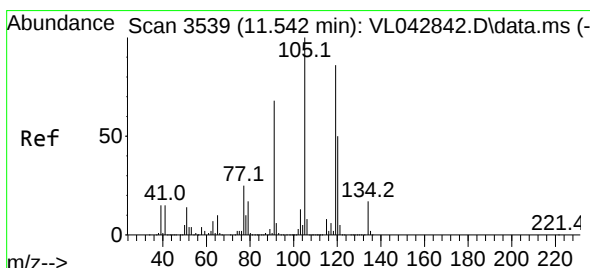
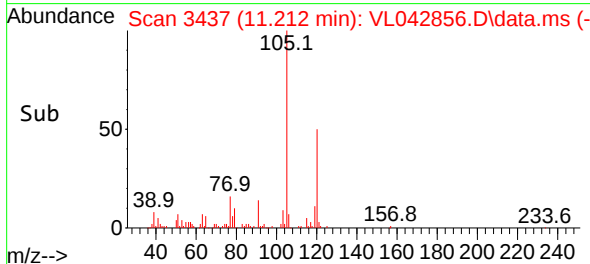
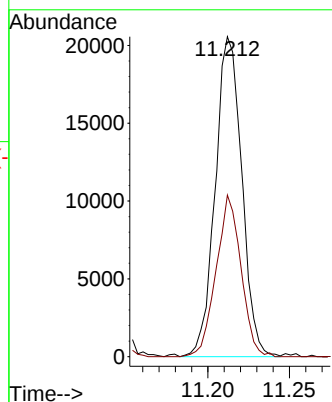
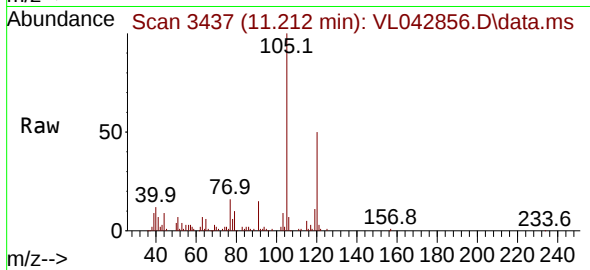
ClientSampleId :

Tgt Ion:105 Resp: 23270

Ion Ratio Lower Upper

105 100

120 50.5 36.6 54.8



#74

1,2,4-Trimethylbenzene

Concen: 1.835 ppbv

RT: 11.545 min Scan# 3540

Delta R.T. 0.003 min

Lab File: VL042856.D

Acq: 13 Aug 2025 17:43

Tgt Ion:105 Resp: 96672

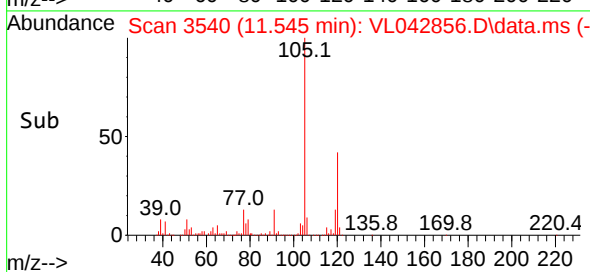
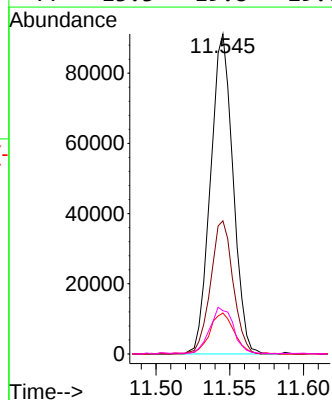
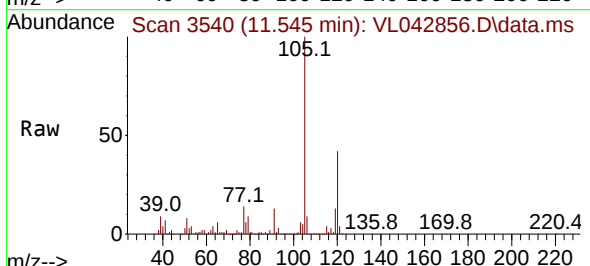
Ion Ratio Lower Upper

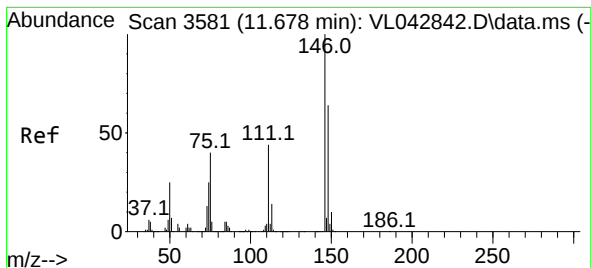
105 100

120 41.6 39.8 59.6

91 12.8 54.2 81.4#

77 13.3 19.8 29.6#





#76

1,4-Dichlorobenzene

Concen: 0.149 ppbv

RT: 11.684 min Scan# 3583

Delta R.T. 0.006 min

Lab File: VL042856.D

Acq: 13 Aug 2025 17:43

Instrument :

MSVOA_L

ClientSampleId :

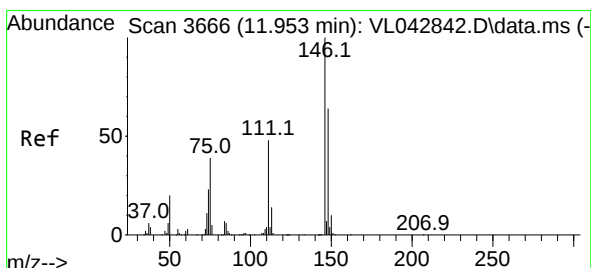
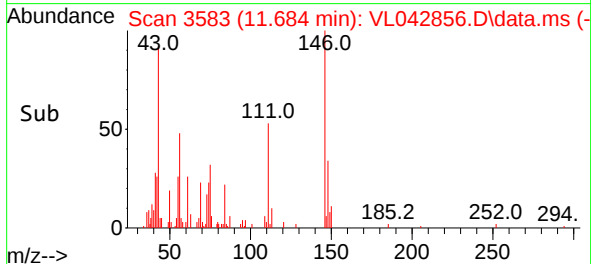
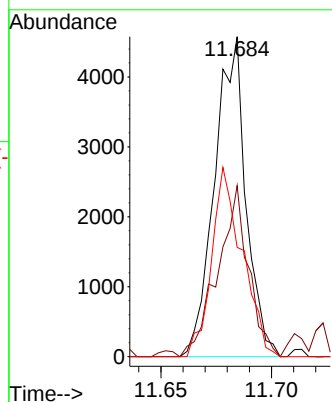
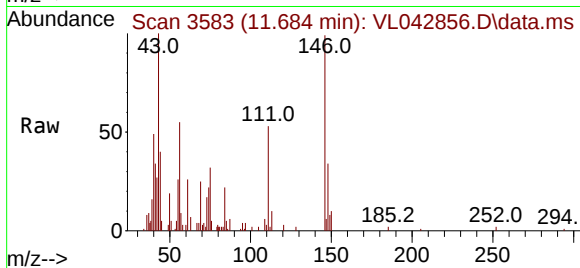
Tgt Ion:146 Resp: 4511

Ion Ratio Lower Upper

146 100

111 63.5 22.7 68.1

148 57.7 31.8 95.3



#77

1,2-Dichlorobenzene

Concen: 0.154 ppbv

RT: 11.684 min Scan# 3583

Delta R.T. -0.269 min

Lab File: VL042856.D

Acq: 13 Aug 2025 17:43

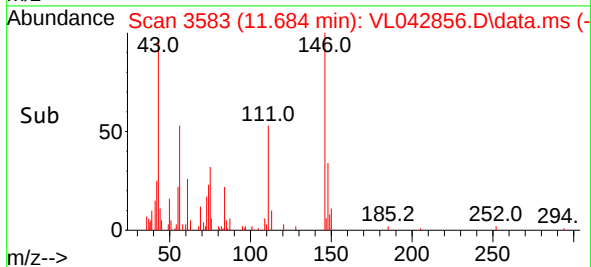
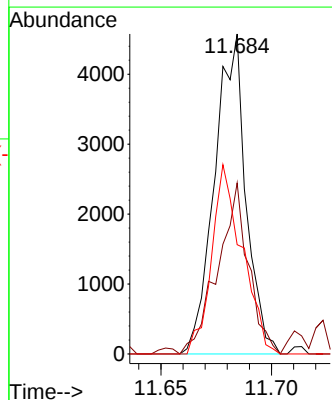
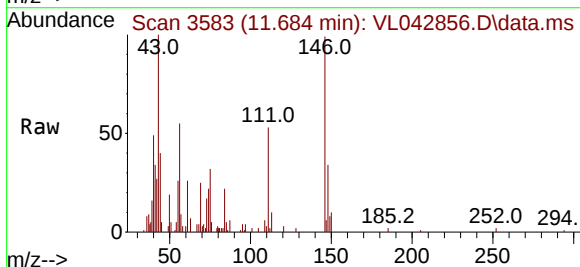
Tgt Ion:146 Resp: 4511

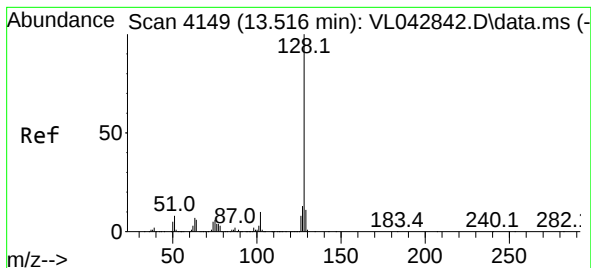
Ion Ratio Lower Upper

146 100

111 53.3 24.6 74.0

148 57.7 32.0 96.0





#79

Naphthalene

Concen: 1.073 ppbv

RT: 13.520 min Scan# 4150

Delta R.T. 0.003 min

Lab File: VL042856.D

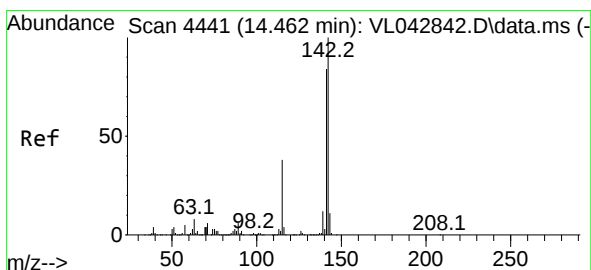
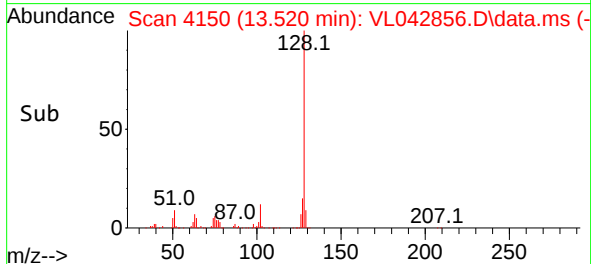
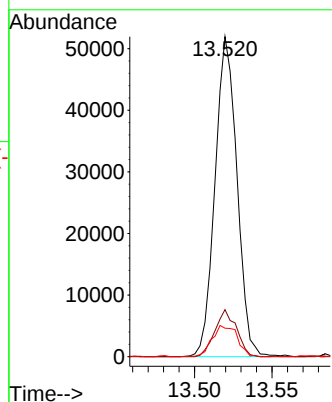
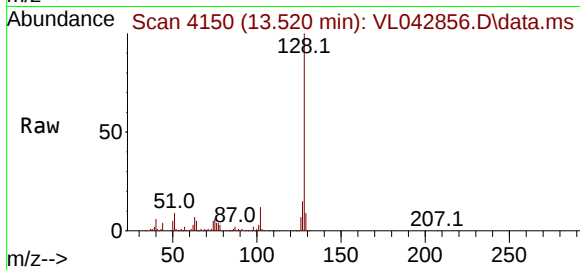
Acq: 13 Aug 2025 17:43

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:128	Resp:	51249
Ion Ratio	Lower	Upper
128	100	
127	14.7	10.6 16.0
129	8.9	8.9 13.3



#80

Naphthalene,2-methyl-

Concen: 0.182 ppbv

RT: 14.465 min Scan# 4442

Delta R.T. 0.003 min

Lab File: VL042856.D

Acq: 13 Aug 2025 17:43

Tgt Ion:142	Resp:	3255
Ion Ratio	Lower	Upper
142	100	
141	87.0	67.0 100.6
115	37.6	30.9 46.3

