

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042654.D
 Acq On : 19 Jun 2025 14:36
 Operator : SY/MD
 Sample : Q2368-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Jun 20 01:38:06 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	2.803	49	110926	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.985	114	297809	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.908	117	265686	10.000	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.397	95	210213	10.555	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.500%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.506	85	6377	0.468	ppbv	96
3) Chlorodifluoromethane	1.457	51	229396	12.217	ppbv #	63
4) Chloromethane	1.538	50	4217	0.781	ppbv	97
5) Vinyl Chloride	1.590	62	228	0.041	ppbv #	64
7) Chloroethane	1.499	64	4025	1.884	ppbv #	44
9) Propene	1.493	41	45621	6.033	ppbv #	76
10) Heptane	5.011	43	64933	3.046	ppbv	99
11) Trichlorofluoromethane	2.150	101	876	0.069	ppbv	90
12) 1,1,2-Trichlorotrifluo...	2.150	101	876	0.088	ppbv	97
13) Ethanol	1.739	45	2411786	2676.402	ppbv	73
15) Acetone	1.852	43	749004	56.057	ppbv #	75
16) 1,3-Butadiene	1.609	39	5823	0.920	ppbv #	69
17) tert-Butyl alcohol	2.056	59	12404	0.891	ppbv #	72
19) Isopropyl Alcohol	1.897	45	72050	9.020	ppbv #	1
20) Methylene Chloride	2.075	84	3118	0.707	ppbv #	59
21) Allyl Chloride	2.088	41	26275	2.787	ppbv #	3
22) trans-1,2-Dichloroethene	2.732	96	1991	0.386	ppbv	83
23) Vinyl Acetate	2.486	43	293024	16.224	ppbv #	44
24) 1,1-Dichloroethane	2.444	63	463	0.044	ppbv #	88
25) Ethyl Acetate	2.849	43	378809	10.360	ppbv	99
26) Hexane	2.842	57	141631	8.524	ppbv	82
27) Carbon Disulfide	2.163	76	641	0.050	ppbv #	1
28) Methyl tert-Butyl Ether	2.460	73	520	0.077	ppbv #	50
29) Chloroform	2.865	83	25995	1.203	ppbv	93
30) Cyclohexane	3.881	84	28176	2.046	ppbv	94
31) cis-1,2-Dichloroethene	2.739	61	4593	0.302	ppbv #	85
34) 2-Butanone	2.570	43	27969	1.317	ppbv	97
35) Carbon Tetrachloride	3.784	117	923	0.047	ppbv #	67
36) Benzene	3.677	78	145194	4.951	ppbv	98
38) Trichloroethene	4.580	130	1504	0.121	ppbv #	80
39) 1,2-Dichloropropane	3.982	63	75637	6.974	ppbv #	23
41) Tetrahydrofuran	3.075	42	3922	0.315	ppbv #	39
43) Methyl Methacrylate	4.933	69	1488	0.131	ppbv #	1
44) 2,2,4-Trimethylpentane	4.668	57	202489	4.037	ppbv	90
50) 4-Methyl-2-Pentanone	5.804	43	9648	0.328	ppbv #	39
51) 2-Hexanone	7.484	43	1906	0.082	ppbv #	51
52) Tetrachloroethene	8.264	164	1758047	160.426	ppbv	98
53) Toluene	6.966	91	762011	22.482	ppbv	99
58) Ethyl Benzene	9.377	91	262805	5.831	ppbv	94
59) m/p-Xylene	9.555	91	745066	21.008	ppbv	97
60) o-Xylene	9.986	91	285317	8.066	ppbv	97
61) Styrene	9.895	104	26386	1.578	ppbv	96
62) Isopropylbenzene	10.558	105	10455	0.200	ppbv	91

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

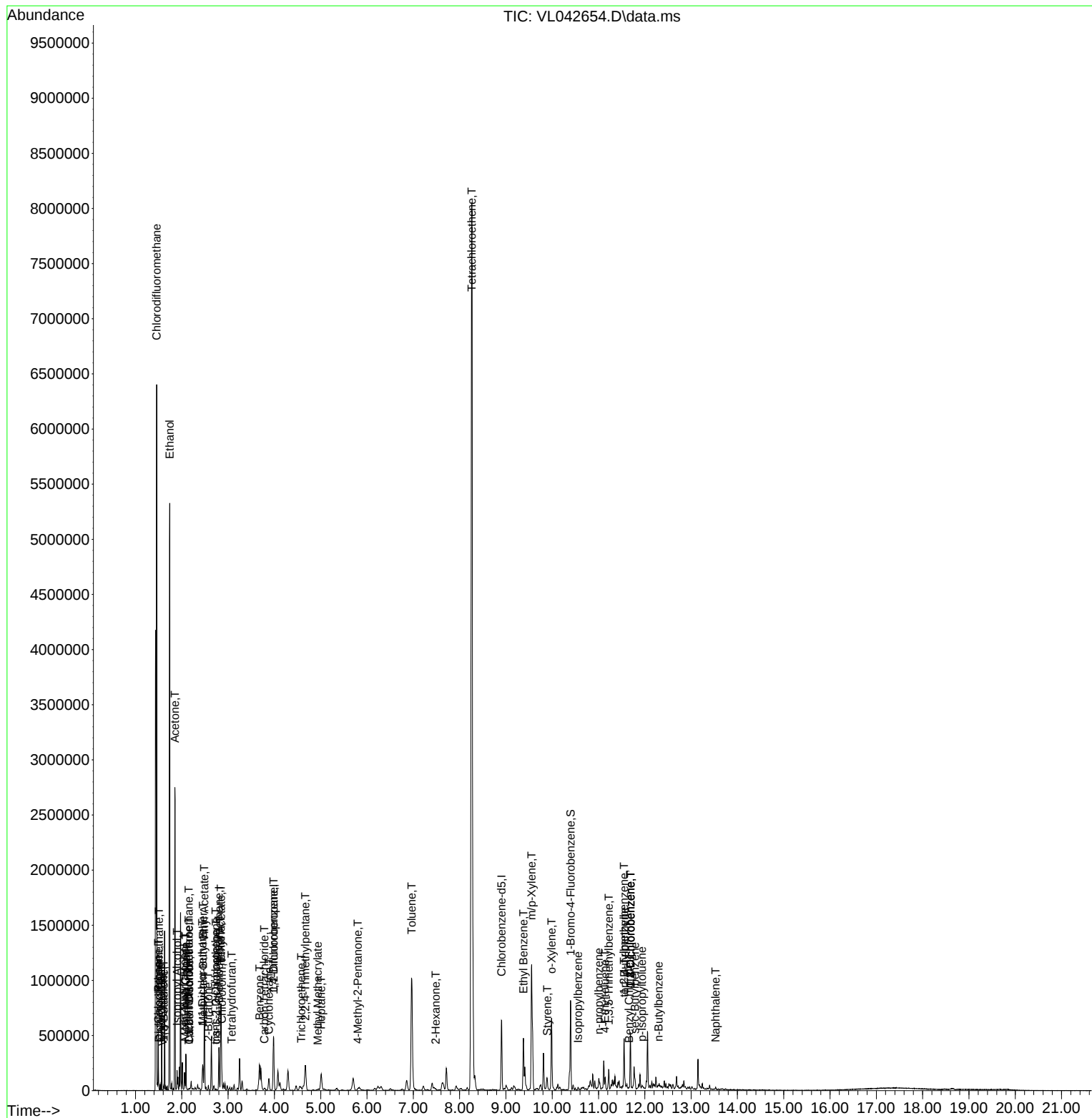
64) n-propylbenzene	11.005	120	8498	0.607	ppbv	91
65) tert-Butylbenzene	11.555	119	18059	0.381	ppbv #	56
66) Benzyl Chloride	11.659	91	253	0.041	ppbv #	65
67) sec-Butylbenzene	11.785	105	4786	0.072	ppbv #	44
69) p-Isopropyltoluene	11.941	119	8167	0.146	ppbv	95
70) n-Butylbenzene	12.297	91	10981	0.199	ppbv #	46
72) 4-Ethyltoluene	11.141	105	45232	1.026	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.222	105	45144	1.237	ppbv	89
74) 1,2,4-Trimethylbenzene	11.552	105	158301	3.908	ppbv #	64
75) 1,3-Dichlorobenzene	11.688	146	123874	4.870	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	123874	4.883	ppbv	97
77) 1,2-Dichlorobenzene	11.688	146	123874	5.018	ppbv	99
79) Naphthalene	13.530	128	9254	0.242	ppbv	97

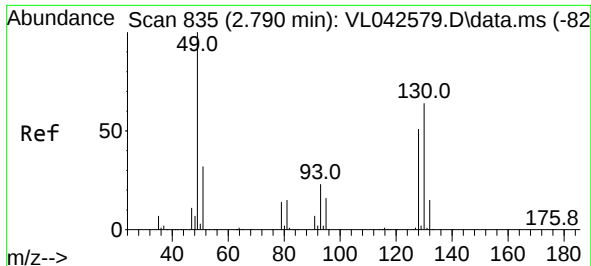
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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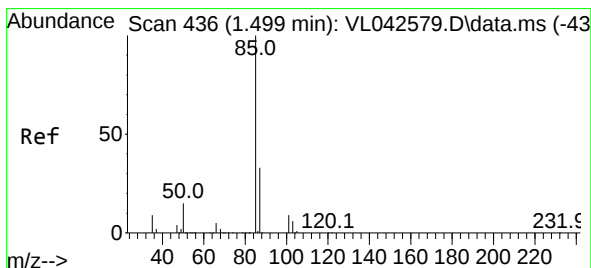
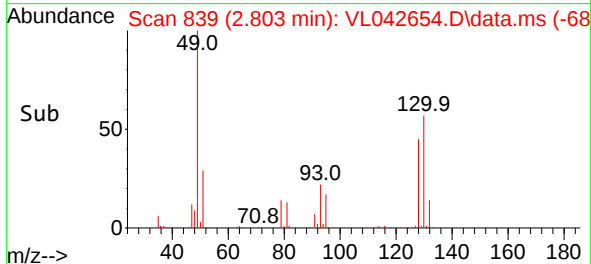
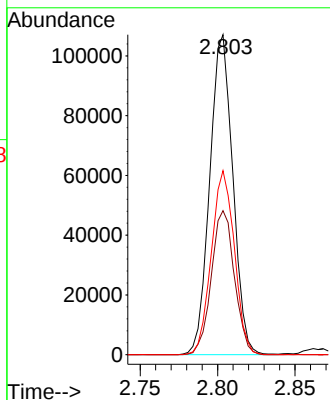
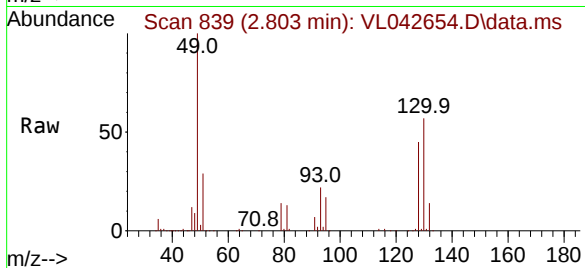




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

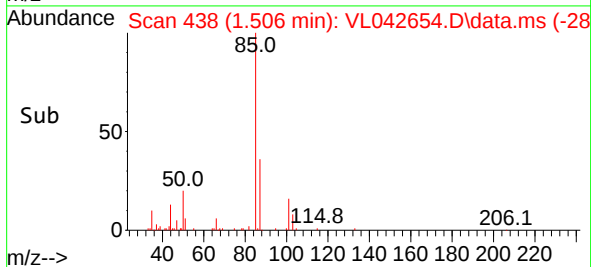
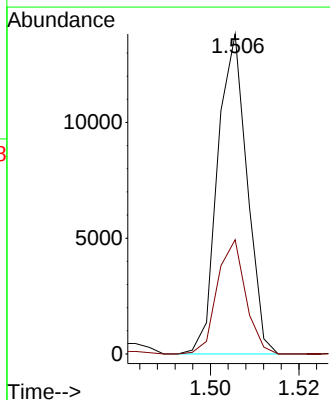
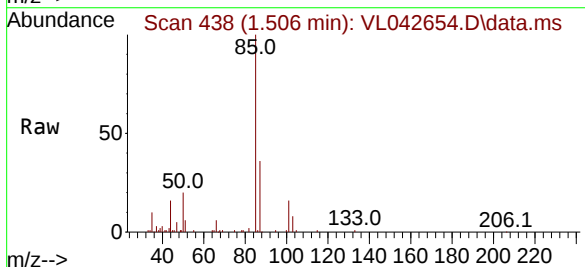
Instrument :
MSVOA_L
ClientSampleId :
IA1

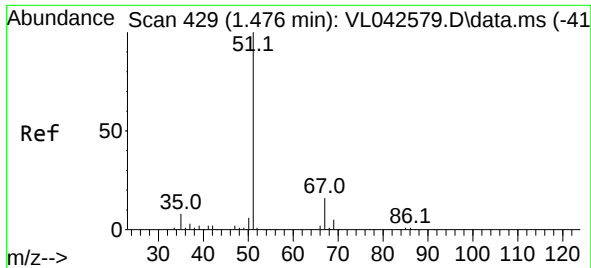
Tgt Ion: 49 Resp: 110926
Ion Ratio Lower Upper
49 100
128 45.0 24.2 72.6
130 57.3 30.4 91.2



#2
Dichlorodifluoromethane
Concen: 0.468 ppbv
RT: 1.506 min Scan# 438
Delta R.T. 0.007 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

Tgt Ion: 85 Resp: 6377
Ion Ratio Lower Upper
85 100
87 35.7 26.6 39.8

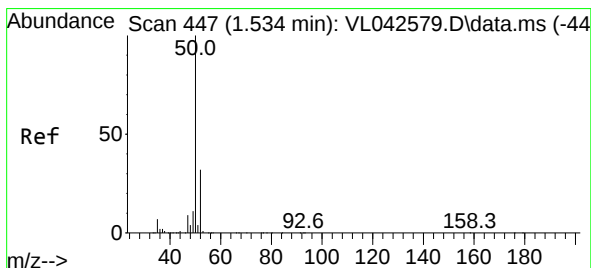
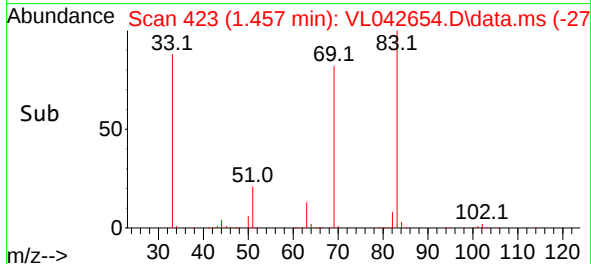
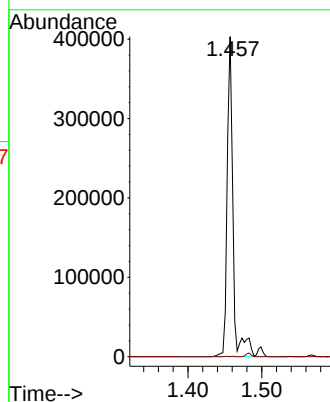
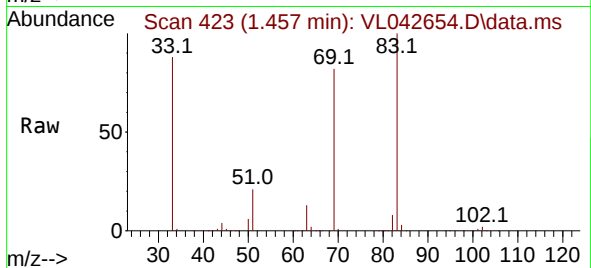




#3
Chlorodifluoromethane
Concen: 12.217 ppbv
RT: 1.457 min Scan# 41
Delta R.T. -0.019 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

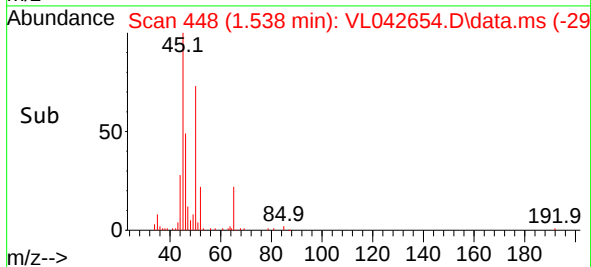
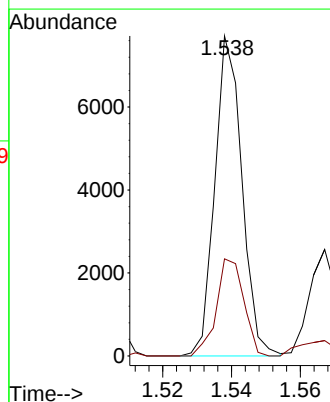
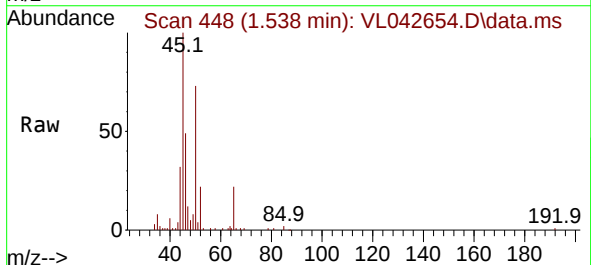
Instrument :
MSVOA_L
ClientSampleId :
IA1

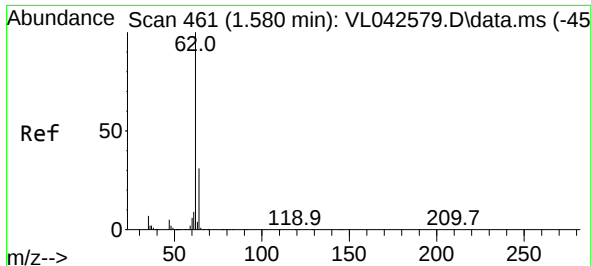
Tgt Ion: 51 Resp: 229396
Ion Ratio Lower Upper
51 100
67 1.0 13.4 20.2#



#4
Chloromethane
Concen: 0.781 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.004 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

Tgt Ion: 50 Resp: 4217
Ion Ratio Lower Upper
50 100
52 30.4 25.8 38.6

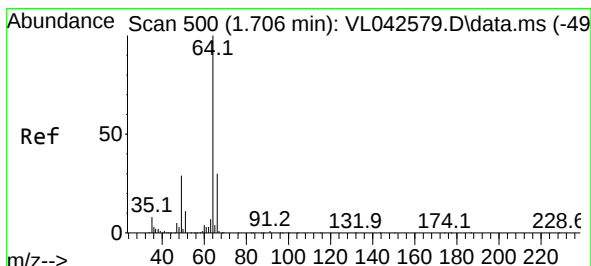
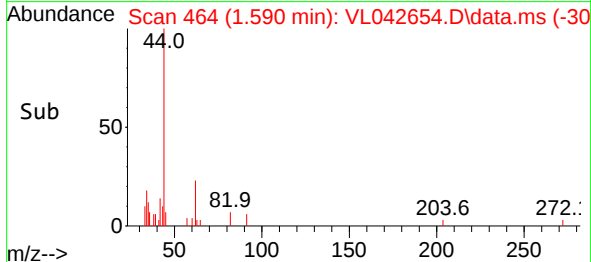
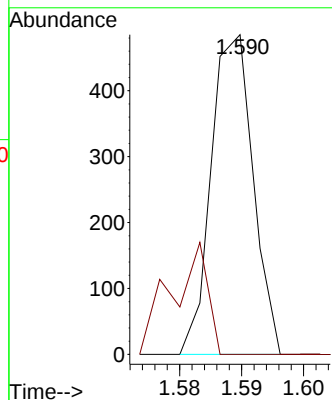
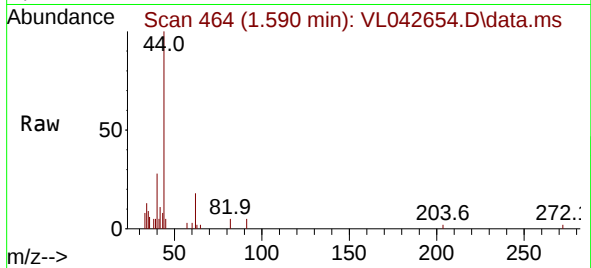




#5
 Vinyl Chloride
 Concen: 0.041 ppbv
 RT: 1.590 min Scan# 41
 Delta R.T. 0.010 min
 Lab File: VL042654.D
 Acq: 19 Jun 2025 14:36

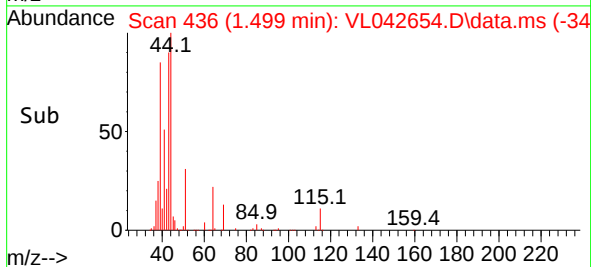
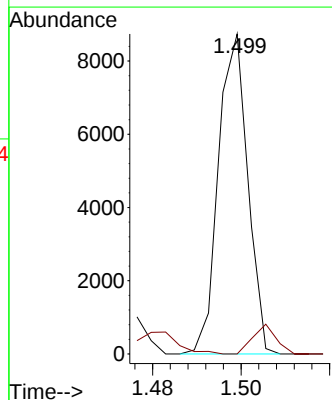
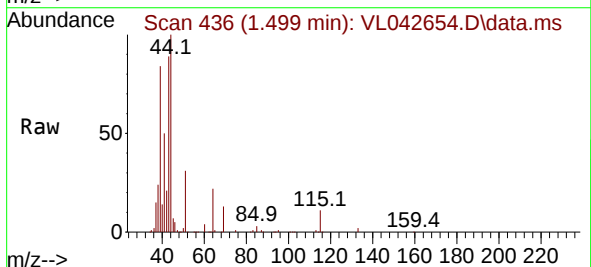
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

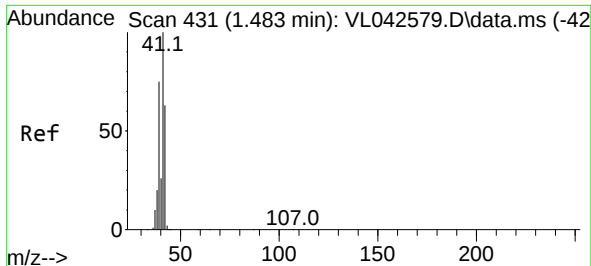
Tgt Ion: 62 Resp: 228
 Ion Ratio Lower Upper
 62 100
 64 11.2 24.9 37.3#



#7
 Chloroethane
 Concen: 1.884 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. -0.207 min
 Lab File: VL042654.D
 Acq: 19 Jun 2025 14:36

Tgt Ion: 64 Resp: 4025
 Ion Ratio Lower Upper
 64 100
 66 0.0 24.3 36.5#





#9

Propene

Concen: 6.033 ppbv

RT: 1.493 min Scan# 41

Delta R.T. 0.010 min

Lab File: VL042654.D

Acq: 19 Jun 2025 14:36

Instrument :

MSVOA_L

ClientSampleId :

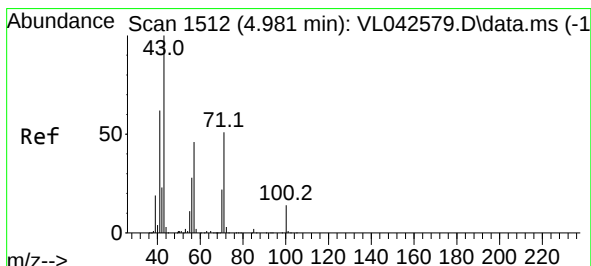
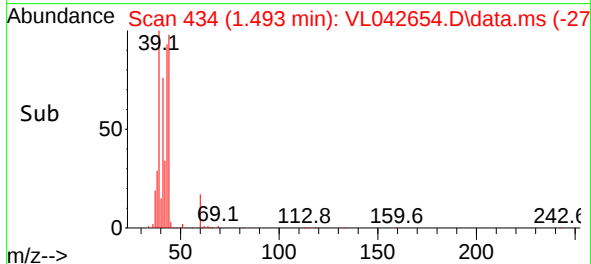
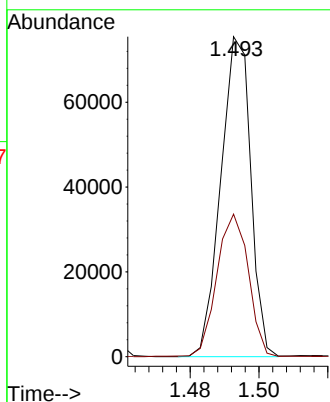
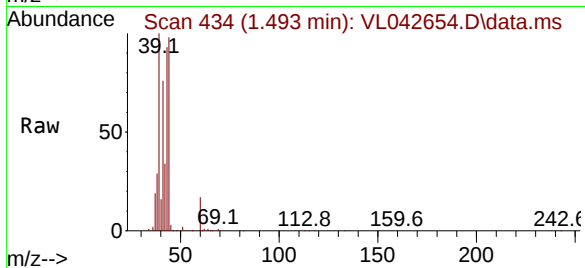
IA1

Tgt Ion: 41 Resp: 45621

Ion Ratio Lower Upper

41 100

42 47.4 53.3 79.9#



#10

Heptane

Concen: 3.046 ppbv

RT: 5.011 min Scan# 1521

Delta R.T. 0.029 min

Lab File: VL042654.D

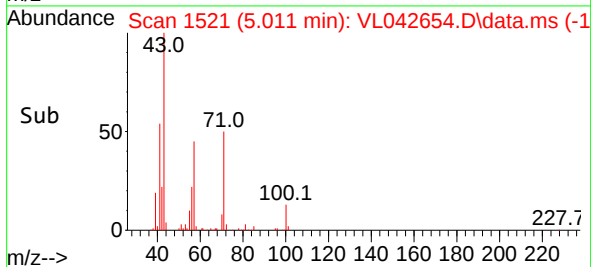
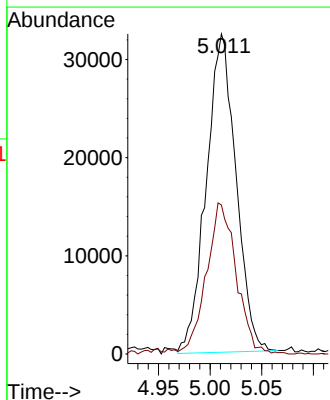
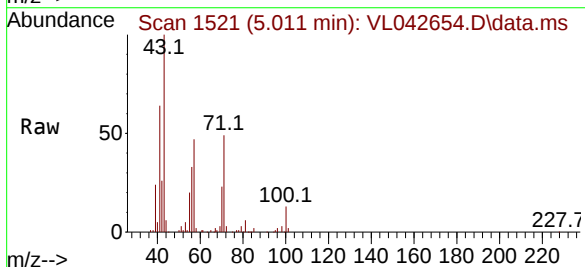
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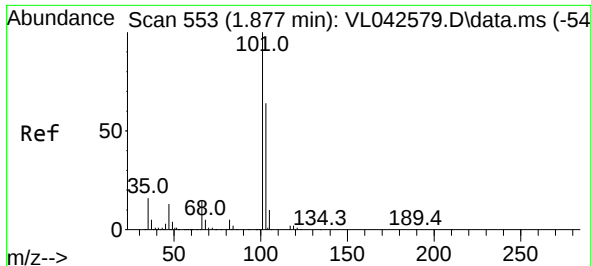
Tgt Ion: 43 Resp: 64933

Ion Ratio Lower Upper

43 100

57 49.2 38.9 58.3

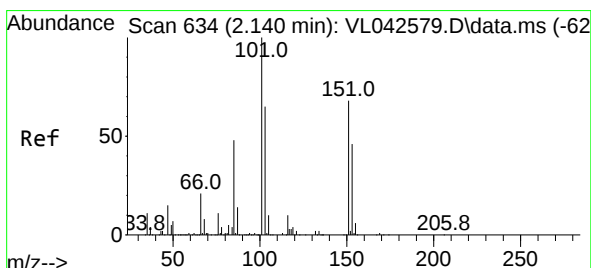
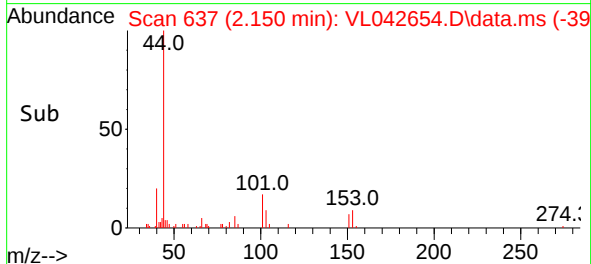
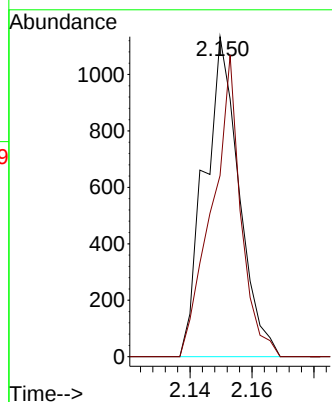
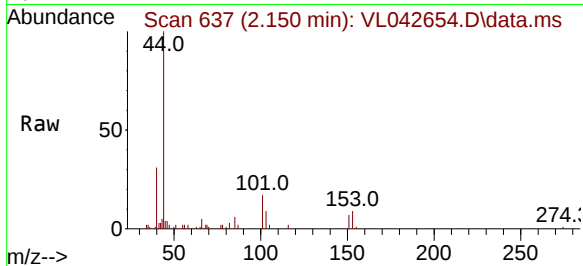




#11
 Trichlorofluoromethane
 Concen: 0.069 ppbv
 RT: 2.150 min Scan# 61
 Delta R.T. 0.272 min
 Lab File: VL042654.D
 Acq: 19 Jun 2025 14:36

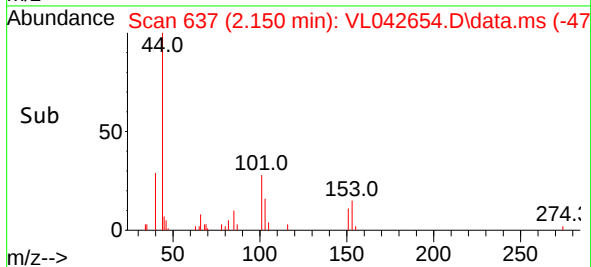
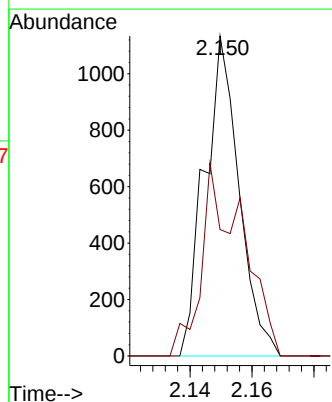
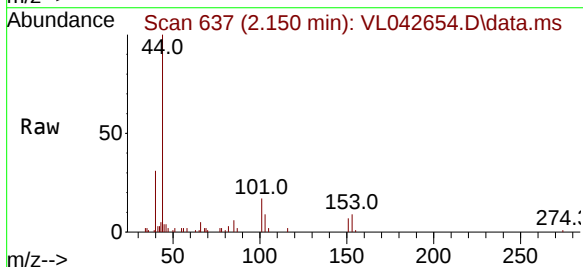
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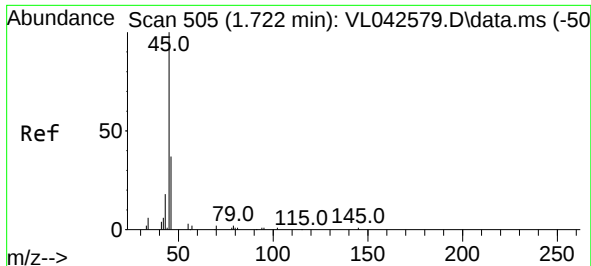
Tgt Ion:101 Resp: 876
 Ion Ratio Lower Upper
 101 100
 103 56.6 51.5 77.3



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.088 ppbv
 RT: 2.150 min Scan# 637
 Delta R.T. 0.010 min
 Lab File: VL042654.D
 Acq: 19 Jun 2025 14:36

Tgt Ion:101 Resp: 876
 Ion Ratio Lower Upper
 101 100
 151 71.6 55.3 82.9

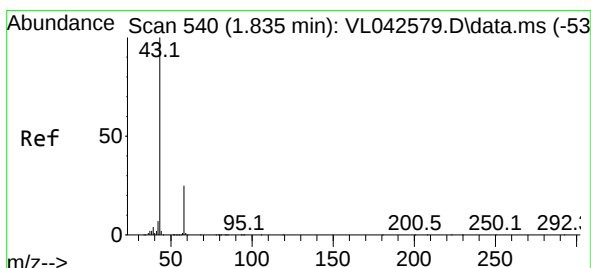
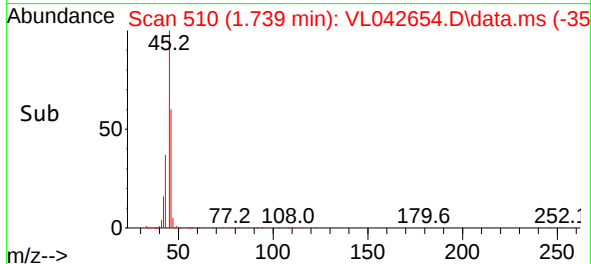
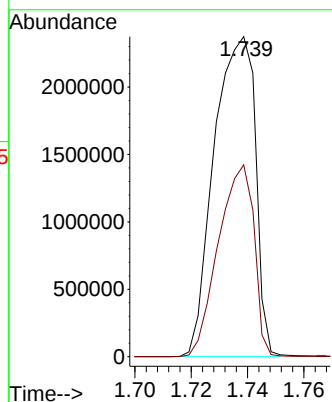
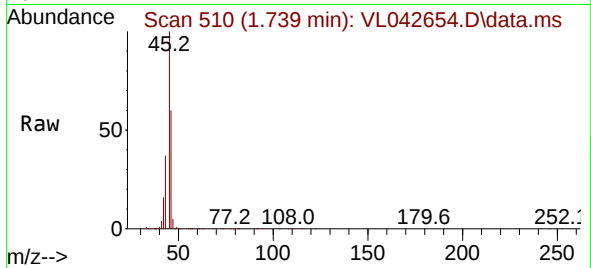




#13
Ethanol
Concen: 2676.402 ppbv
RT: 1.739 min Scan# 510
Delta R.T. 0.016 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

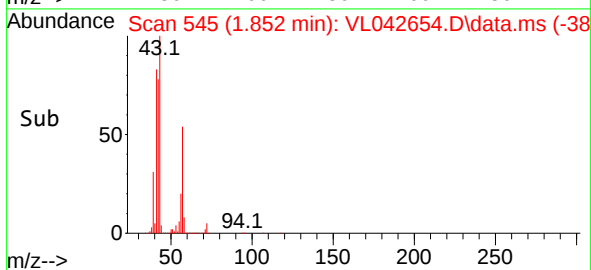
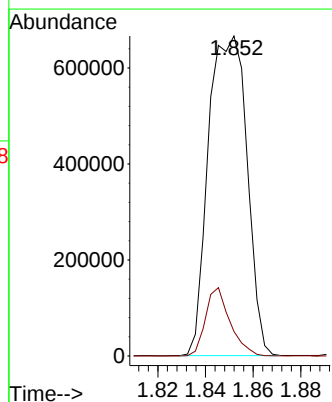
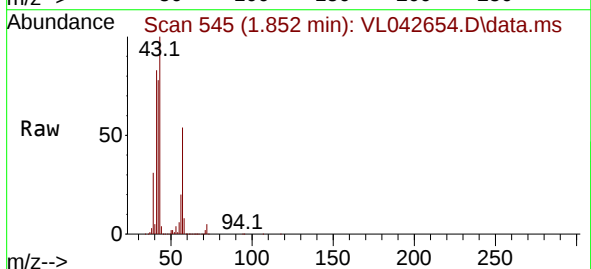
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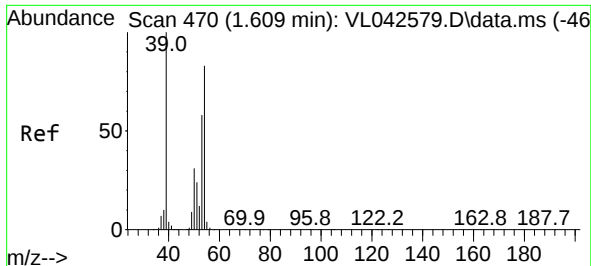
Tgt Ion: 45 Resp: 2411786
Ion Ratio Lower Upper
45 100
46 52.0 14.5 58.1



#15
Acetone
Concen: 56.057 ppbv
RT: 1.852 min Scan# 545
Delta R.T. 0.016 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

Tgt Ion: 43 Resp: 749004
Ion Ratio Lower Upper
43 100
58 13.7 21.0 31.4#

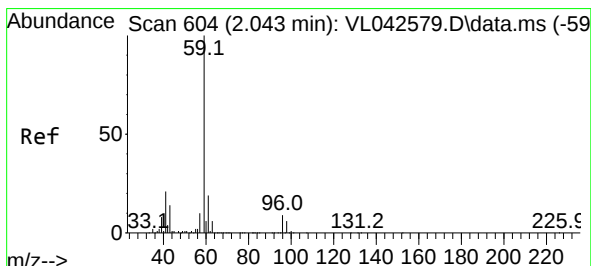
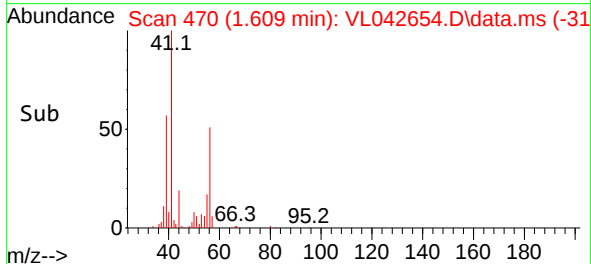
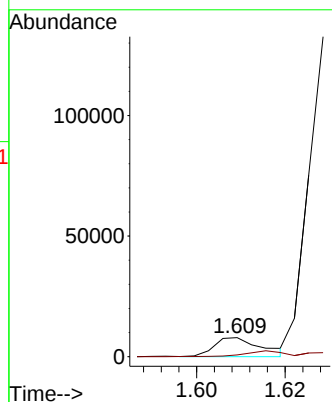
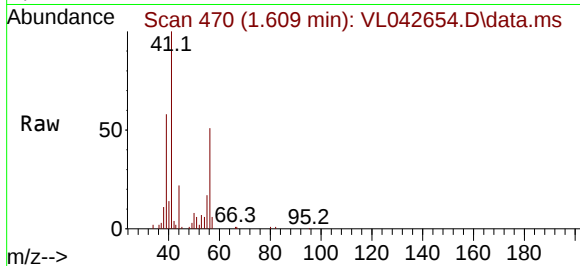




#16
1,3-Butadiene
Concen: 0.920 ppbv
RT: 1.609 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

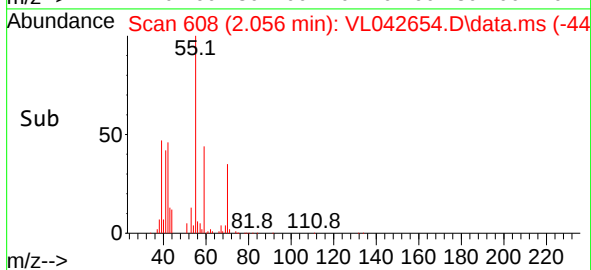
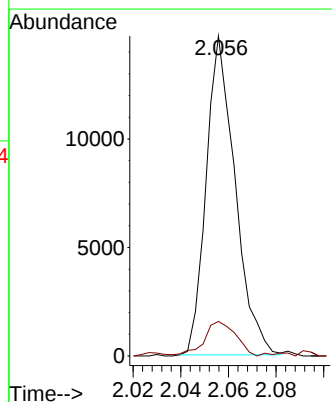
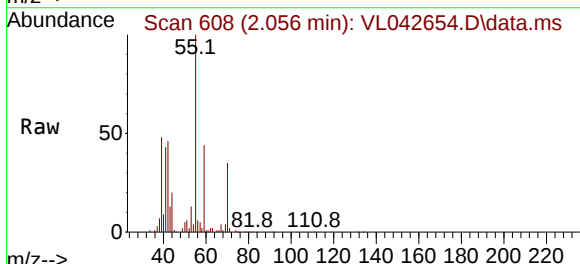
Instrument :
MSVOA_L
ClientSampleId :
IA1

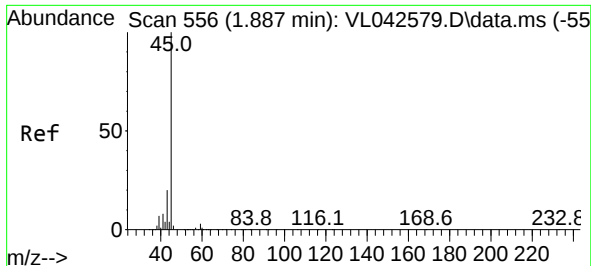
Tgt Ion: 39 Resp: 5823
Ion Ratio Lower Upper
39 100
54 46.6 57.9 86.9#



#17
tert-Butyl alcohol
Concen: 0.891 ppbv
RT: 2.056 min Scan# 608
Delta R.T. 0.013 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

Tgt Ion: 59 Resp: 12404
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

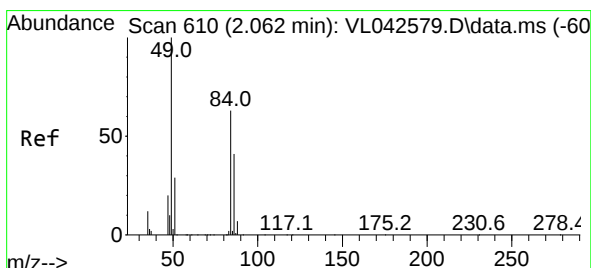
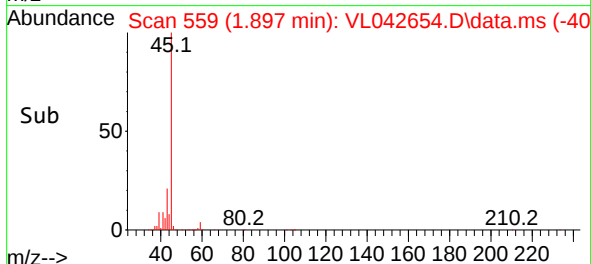
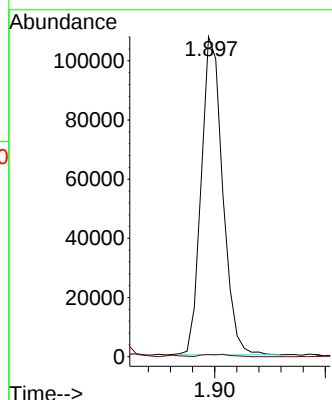
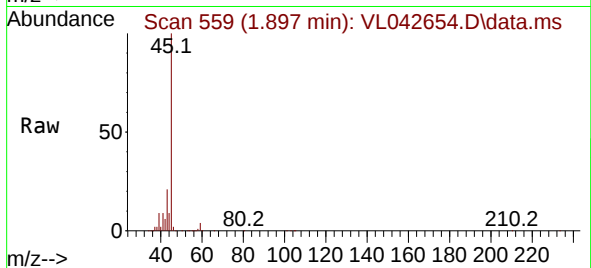




#19
Isopropyl Alcohol
Concen: 9.020 ppbv
RT: 1.897 min Scan# 511
Delta R.T. 0.010 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

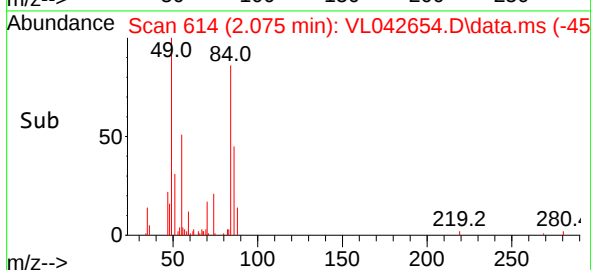
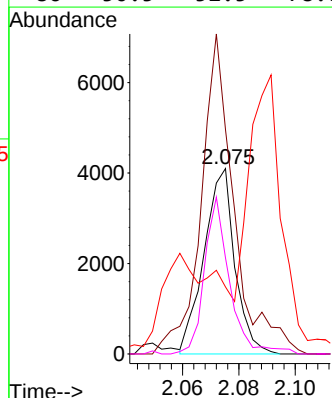
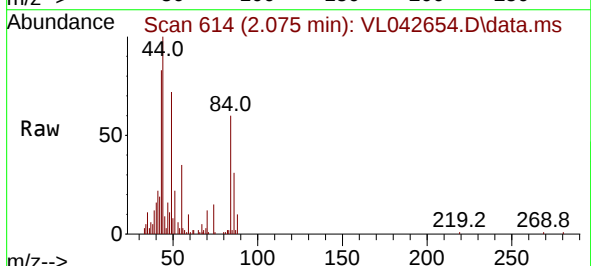
Instrument :
MSVOA_L
ClientSampleId :
IA1

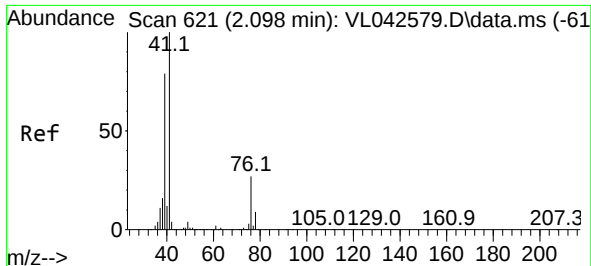
Tgt Ion: 45 Resp: 72050
Ion Ratio Lower Upper
45 100
58 142.3 29.4 44.2#



#20
Methylene Chloride
Concen: 0.707 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.013 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

Tgt Ion: 84 Resp: 3118
Ion Ratio Lower Upper
84 100
49 106.9 128.8 193.2#
51 0.0 38.6 57.8#
86 50.5 52.5 78.7#

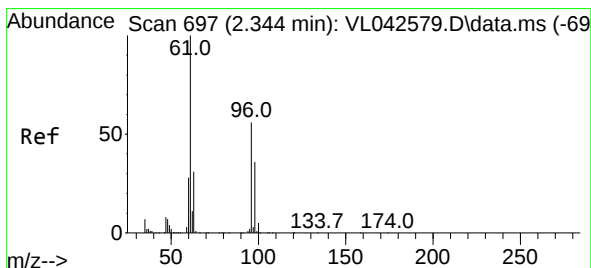
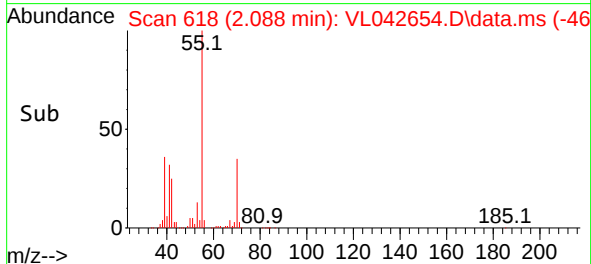
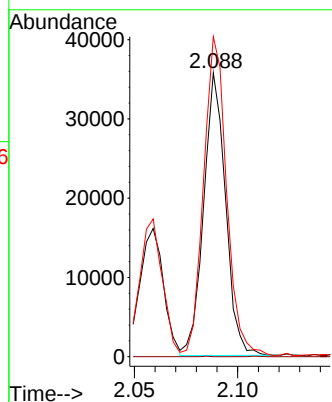
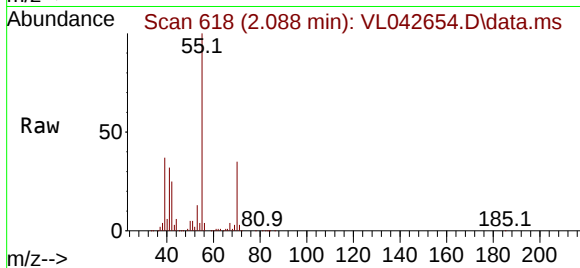




#21
 Allyl Chloride
 Concen: 2.787 ppbv
 RT: 2.088 min Scan# 61
 Delta R.T. -0.009 min
 Lab File: VL042654.D
 Acq: 19 Jun 2025 14:36

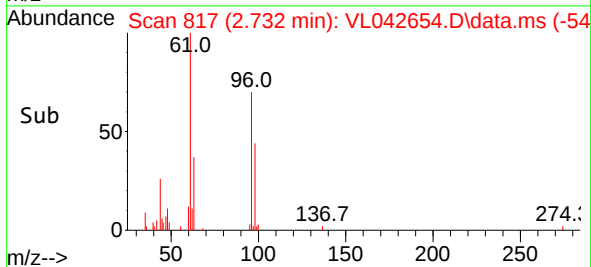
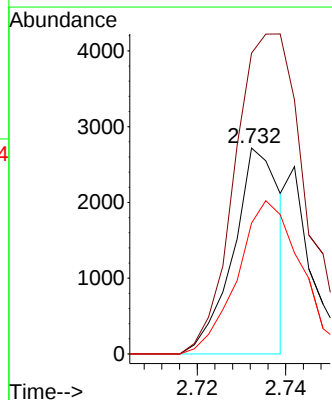
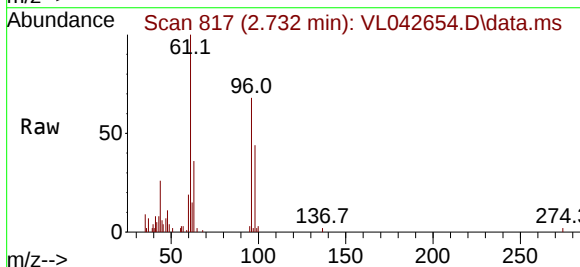
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

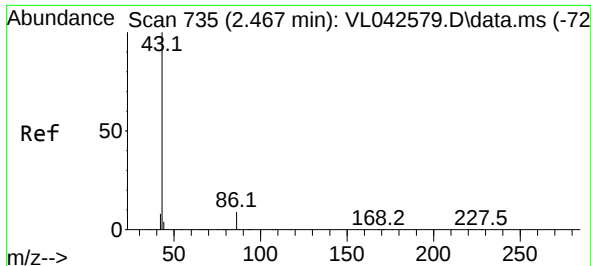
Tgt Ion: 41 Resp: 26275
 Ion Ratio Lower Upper
 41 100
 76 0.1 21.2 31.8#
 39 173.5 60.9 91.3#



#22
 trans-1,2-Dichloroethene
 Concen: 0.386 ppbv
 RT: 2.732 min Scan# 817
 Delta R.T. 0.389 min
 Lab File: VL042654.D
 Acq: 19 Jun 2025 14:36

Tgt Ion: 96 Resp: 1991
 Ion Ratio Lower Upper
 96 100
 61 146.1 142.6 214.0
 98 63.6 51.0 76.4

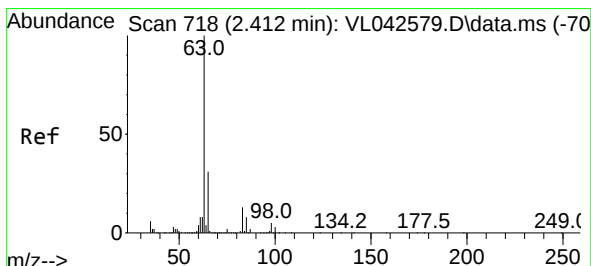
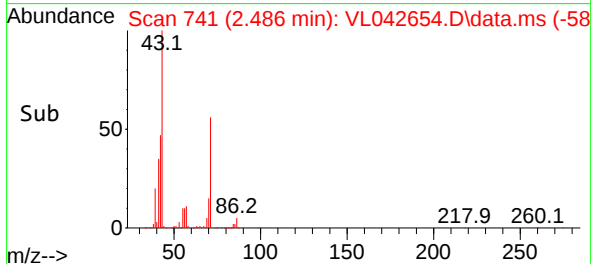
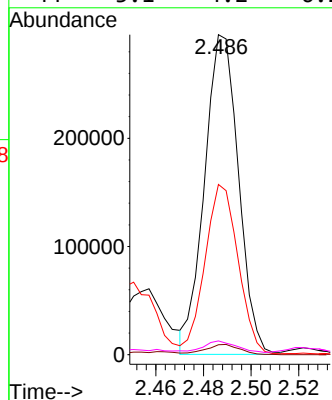
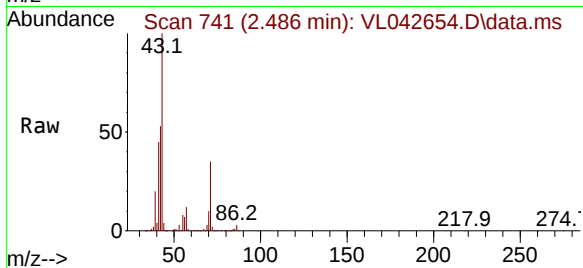




#23
 Vinyl Acetate
 Concen: 16.224 ppbv
 RT: 2.486 min Scan# 741
 Delta R.T. 0.020 min
 Lab File: VL042654.D
 Acq: 19 Jun 2025 14:36

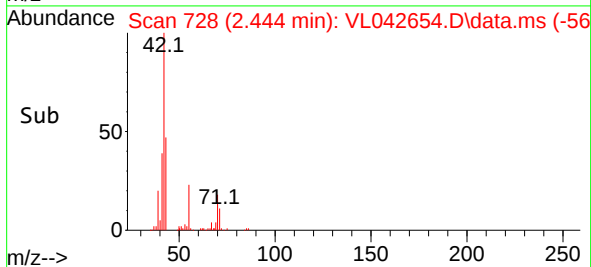
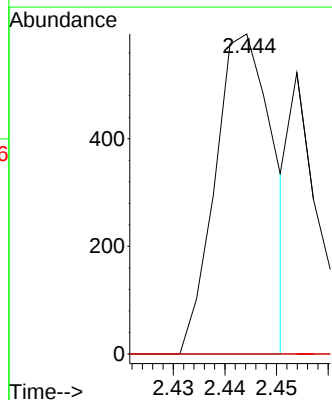
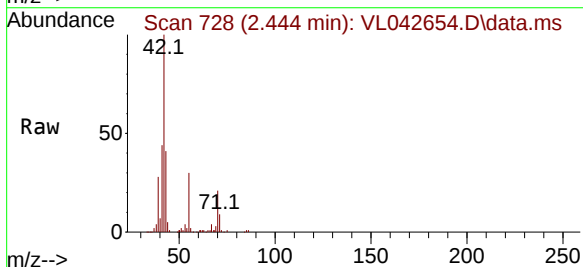
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

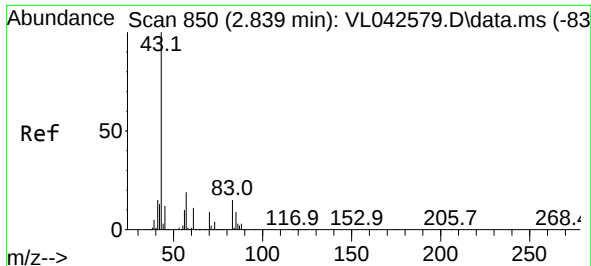
Tgt Ion:	43	Resp:	293024
Ion	Ratio	Lower	Upper
43	100		
86	3.1	6.6	9.8#
42	53.3	7.0	10.4#
44	3.1	4.2	6.2#



#24
 1,1-Dichloroethane
 Concen: 0.044 ppbv
 RT: 2.444 min Scan# 728
 Delta R.T. 0.033 min
 Lab File: VL042654.D
 Acq: 19 Jun 2025 14:36

Tgt Ion:	63	Resp:	463
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.4	7.1#
100	0.0	1.4	4.0#



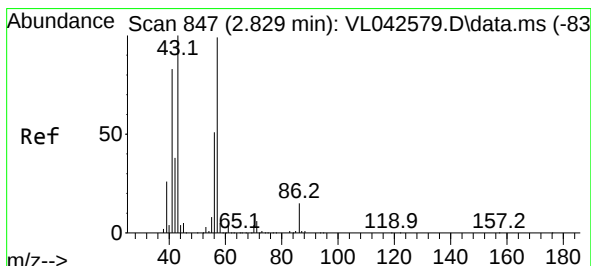
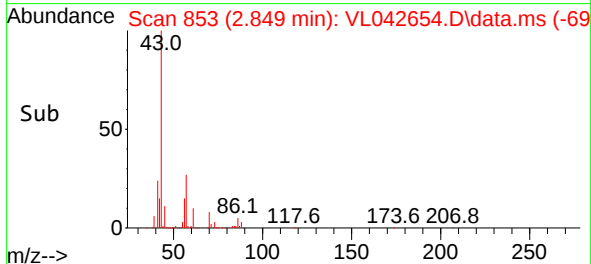
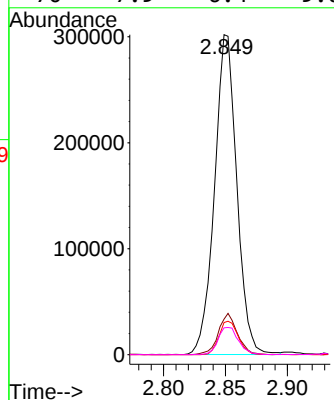
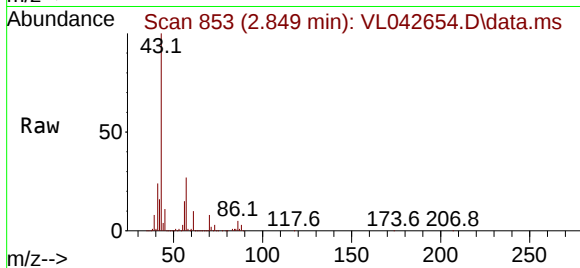


#25
Ethyl Acetate
Concen: 10.360 ppbv
RT: 2.849 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 378809

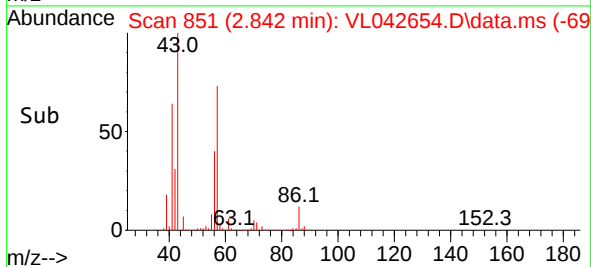
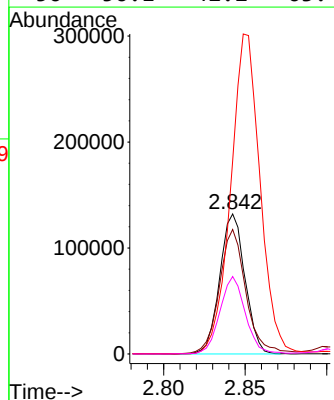
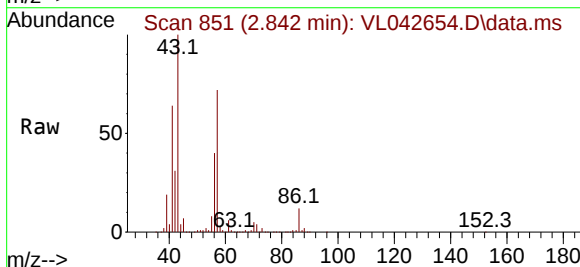
Ion	Ratio	Lower	Upper
43	100		
45	11.2	8.2	12.2
61	9.1	7.1	10.7
70	7.9	6.4	9.6

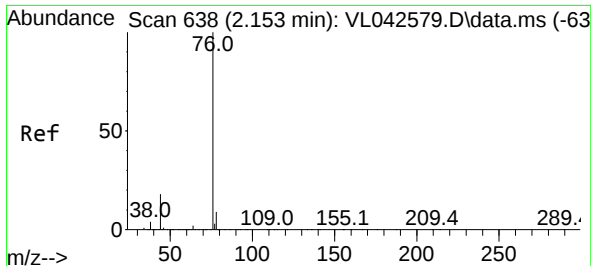


#26
Hexane
Concen: 8.524 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.013 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

Tgt Ion: 57 Resp: 141631

Ion	Ratio	Lower	Upper
57	100		
41	94.8	70.6	106.0
43	268.9	181.1	271.7
56	56.1	42.2	63.4

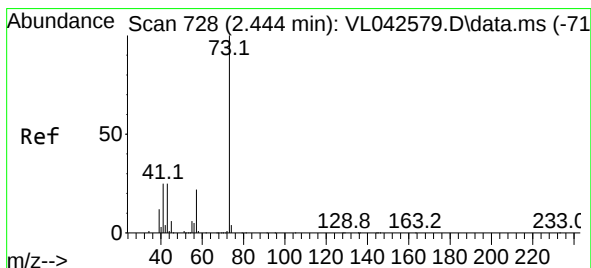
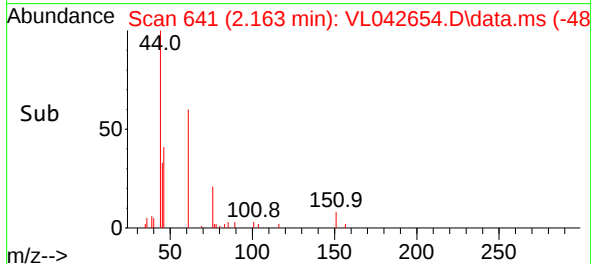
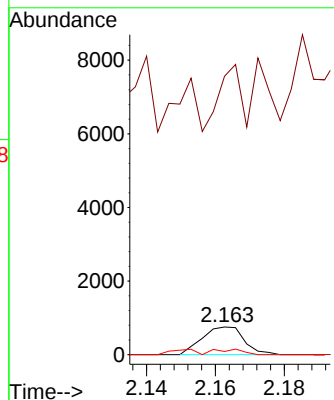
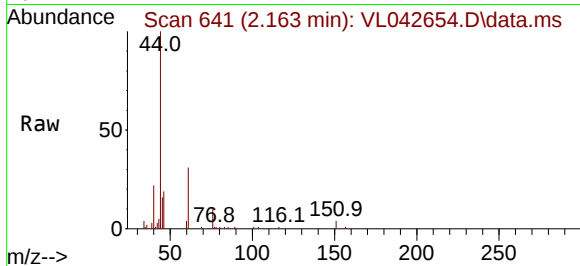




#27
Carbon Disulfide
Concen: 0.050 ppbv
RT: 2.163 min Scan# 641
Delta R.T. 0.010 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

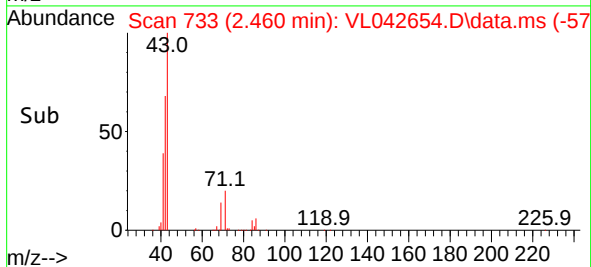
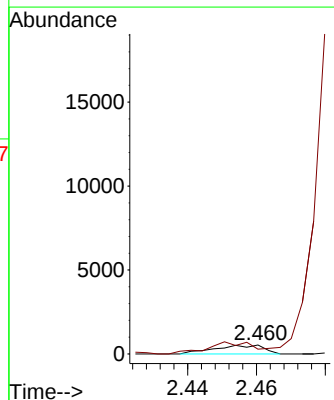
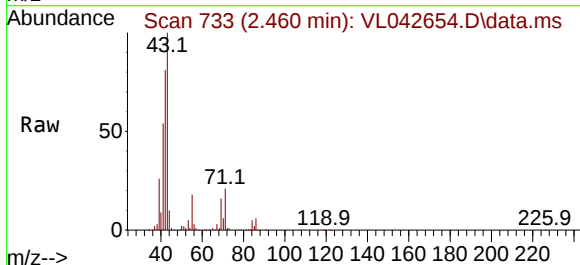
Instrument :
MSVOA_L
ClientSampleId :
IA1

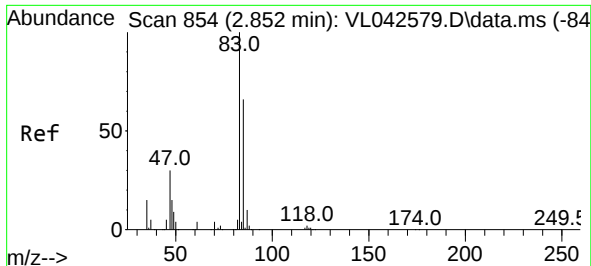
Tgt Ion: 76 Resp: 641
Ion Ratio Lower Upper
76 100
44 1032.9 21.3 31.9#
78 24.5 9.4 14.0#



#28
Methyl tert-Butyl Ether
Concen: 0.077 ppbv
RT: 2.460 min Scan# 733
Delta R.T. 0.016 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

Tgt Ion: 73 Resp: 520
Ion Ratio Lower Upper
73 100
57 0.0 19.9 29.9#





#29

Chloroform

Concen: 1.203 ppbv

RT: 2.865 min Scan# 81

Delta R.T. 0.013 min

Lab File: VL042654.D

Acq: 19 Jun 2025 14:36

Instrument :

MSVOA_L

ClientSampleId :

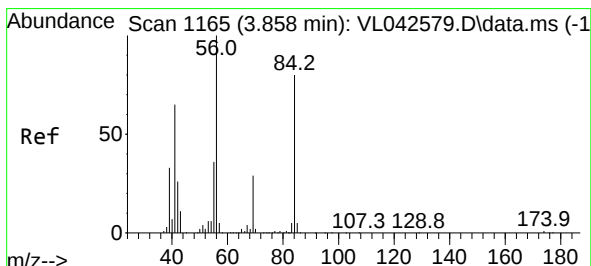
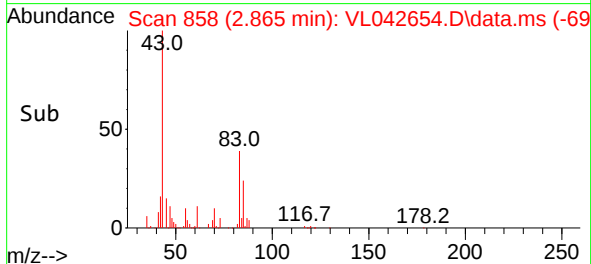
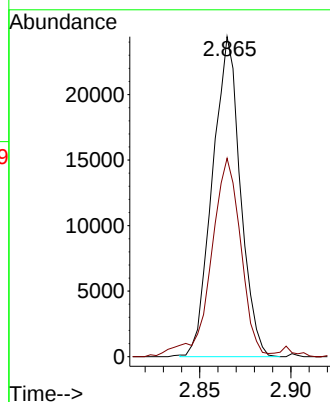
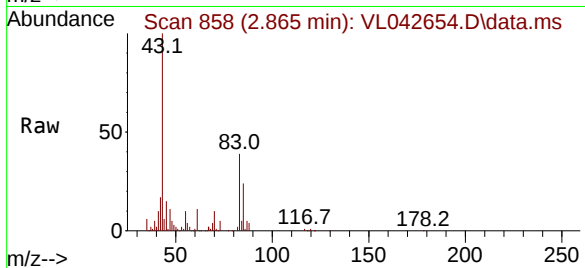
IA1

Tgt Ion: 83 Resp: 25995

Ion Ratio Lower Upper

83 100

85 60.6 52.8 79.2



#30

Cyclohexane

Concen: 2.046 ppbv

RT: 3.881 min Scan# 1172

Delta R.T. 0.023 min

Lab File: VL042654.D

Acq: 19 Jun 2025 14:36

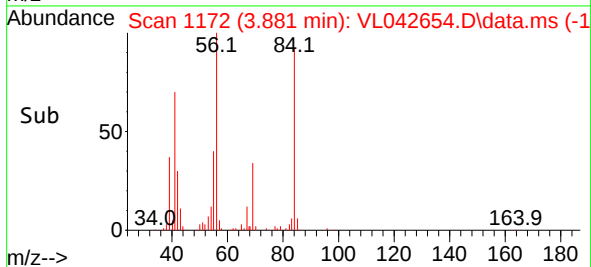
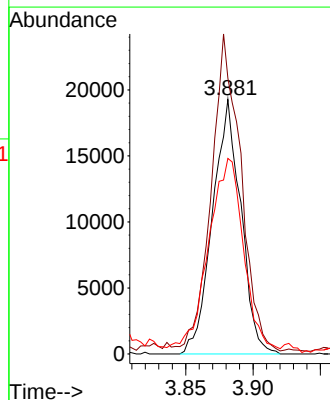
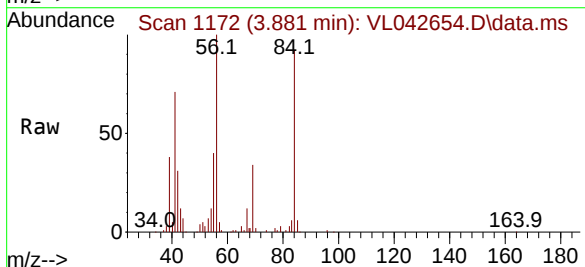
Tgt Ion: 84 Resp: 28176

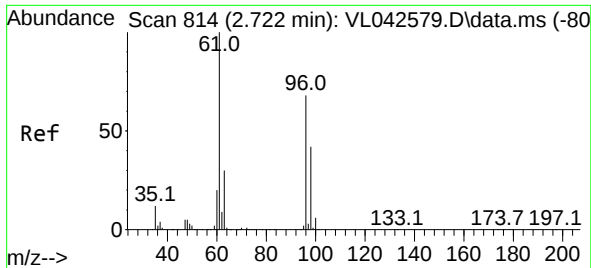
Ion Ratio Lower Upper

84 100

56 131.3 103.7 155.5

41 93.4 65.1 97.7

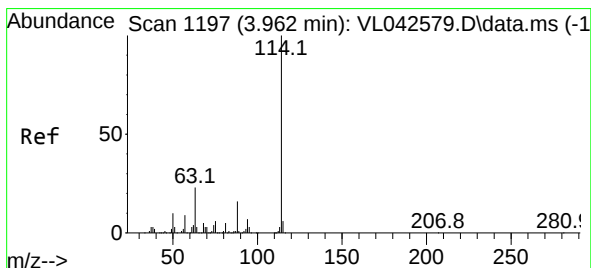
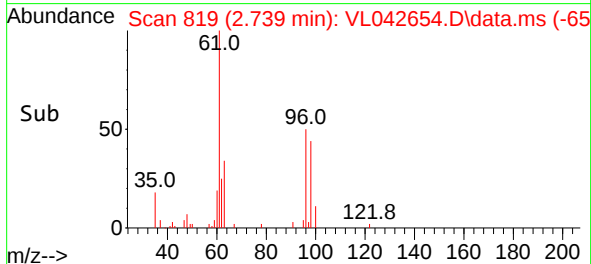
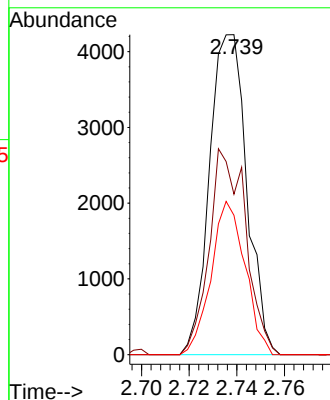
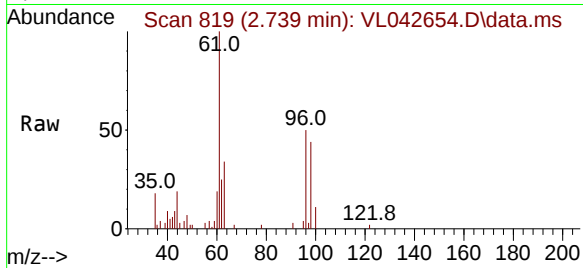




#31
 cis-1,2-Dichloroethene
 Concen: 0.302 ppbv
 RT: 2.739 min Scan# 814
 Delta R.T. 0.016 min
 Lab File: VL042654.D
 Acq: 19 Jun 2025 14:36

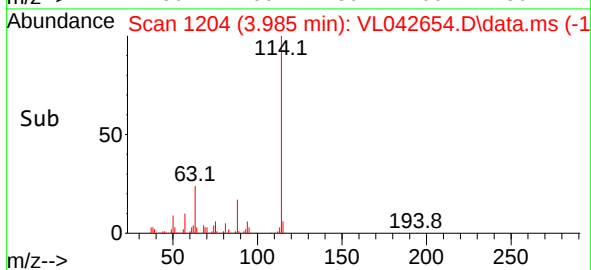
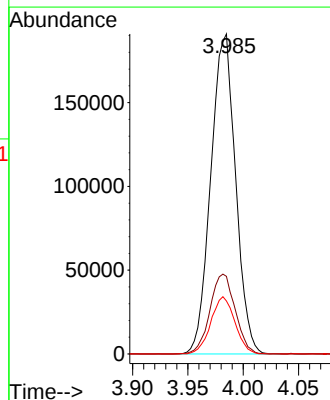
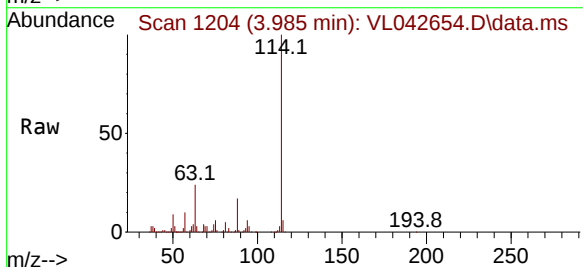
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

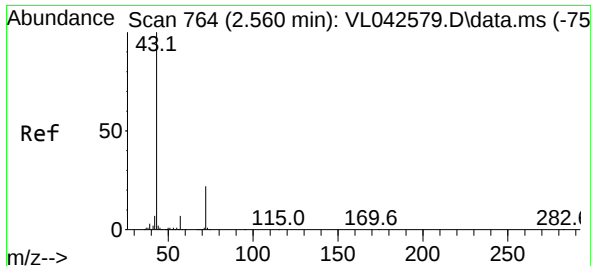
Tgt Ion: 61 Resp: 4593
 Ion Ratio Lower Upper
 61 100
 96 50.1 54.5 81.7#
 98 43.5 33.4 50.2



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.985 min Scan# 1204
 Delta R.T. 0.023 min
 Lab File: VL042654.D
 Acq: 19 Jun 2025 14:36

Tgt Ion: 114 Resp: 297809
 Ion Ratio Lower Upper
 114 100
 63 25.4 19.0 28.6
 88 17.4 13.6 20.4

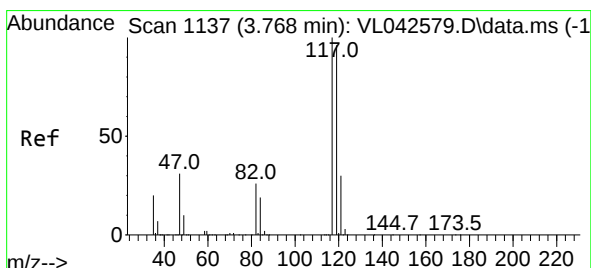
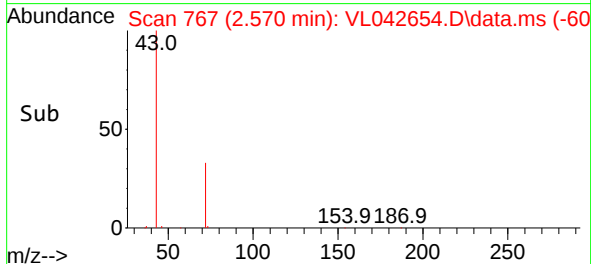
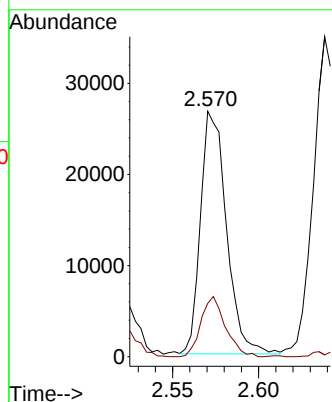
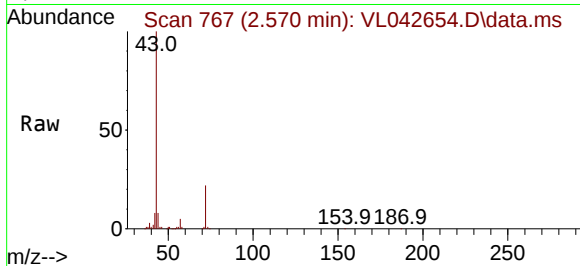




#34
2-Butanone
Concen: 1.317 ppbv
RT: 2.570 min Scan# 71
Delta R.T. 0.010 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

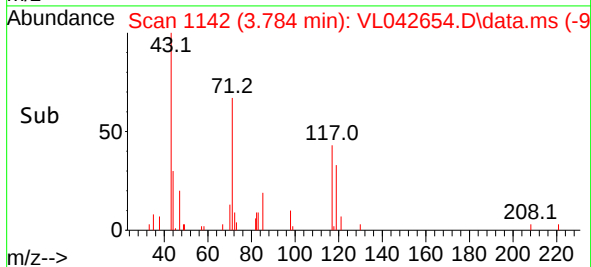
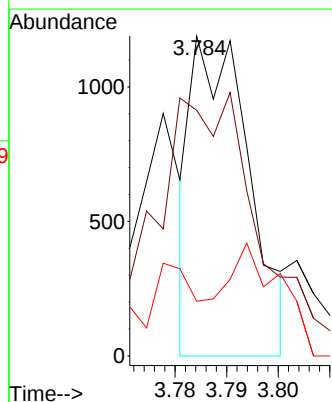
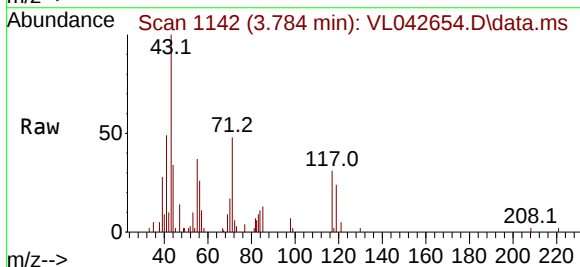
Instrument :
MSVOA_L
ClientSampleId :
IA1

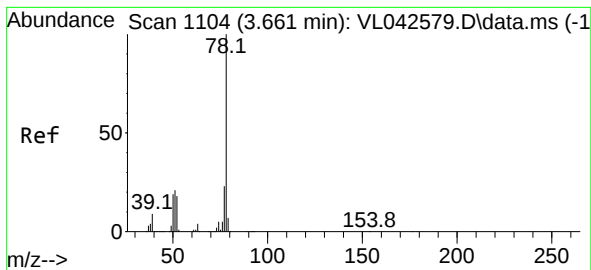
Tgt Ion: 43 Resp: 27969
Ion Ratio Lower Upper
43 100
72 23.6 17.7 26.5



#35
Carbon Tetrachloride
Concen: 0.047 ppbv
RT: 3.784 min Scan# 1142
Delta R.T. 0.016 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

Tgt Ion: 117 Resp: 923
Ion Ratio Lower Upper
117 100
119 70.8 76.8 115.2#
121 0.0 24.3 36.5#





#36

Benzene

Concen: 4.951 ppbv

RT: 3.677 min Scan# 1109

Delta R.T. 0.016 min

Lab File: VL042654.D

Acq: 19 Jun 2025 14:36

Instrument :

MSVOA_L

ClientSampleId :

IA1

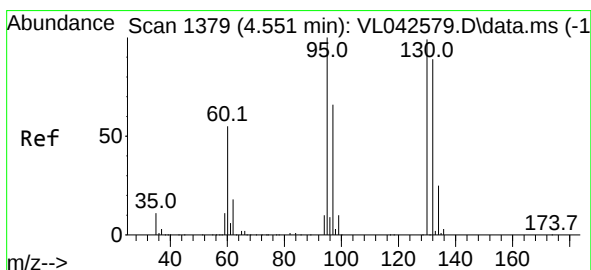
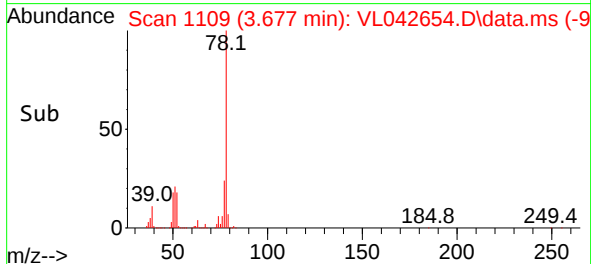
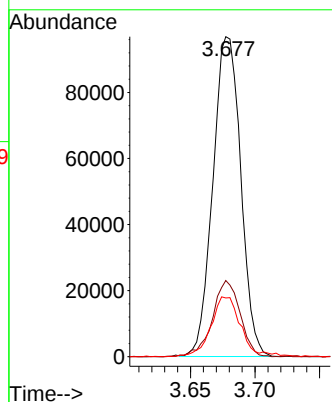
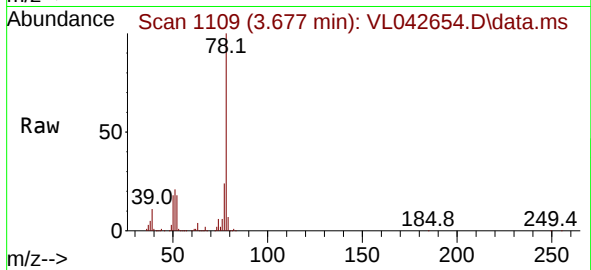
Tgt Ion: 78 Resp: 145194

Ion Ratio Lower Upper

78 100

77 23.8 18.2 27.2

50 18.0 15.2 22.8



#38

Trichloroethene

Concen: 0.121 ppbv

RT: 4.580 min Scan# 1388

Delta R.T. 0.029 min

Lab File: VL042654.D

Acq: 19 Jun 2025 14:36

Tgt Ion:130 Resp: 1504

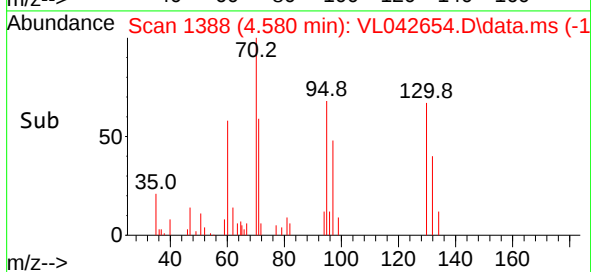
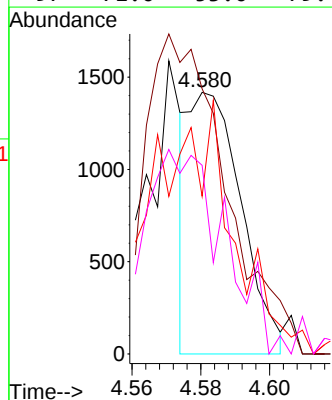
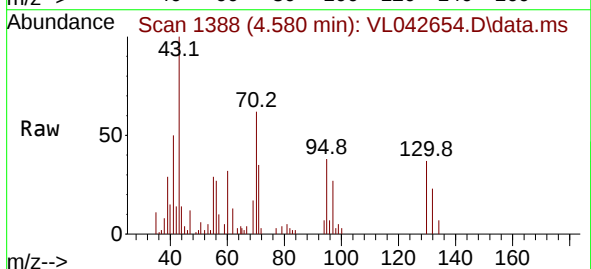
Ion Ratio Lower Upper

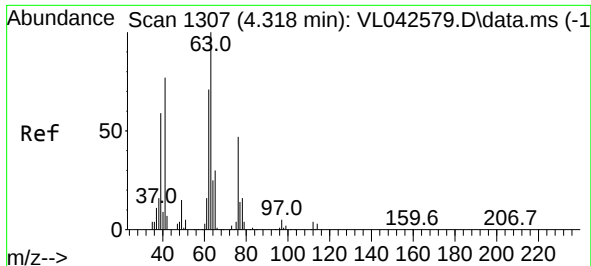
130 100

95 88.2 80.6 121.0

132 53.8 71.8 107.6#

97 71.0 53.0 79.4





#39

1,2-Dichloropropane

Concen: 6.974 ppbv

RT: 3.982 min Scan# 11

Delta R.T. -0.336 min

Lab File: VL042654.D

Acq: 19 Jun 2025 14:36

Instrument :

MSVOA_L

ClientSampleId :

IA1

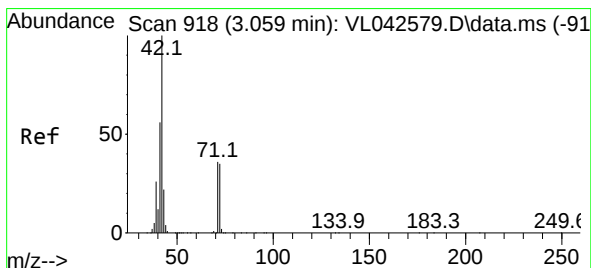
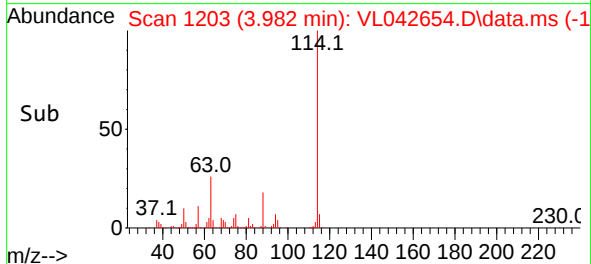
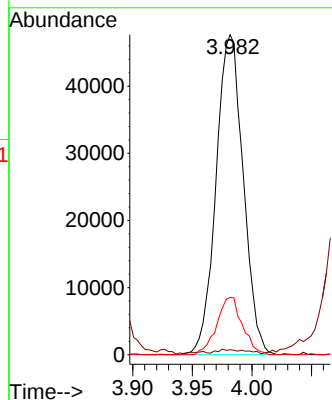
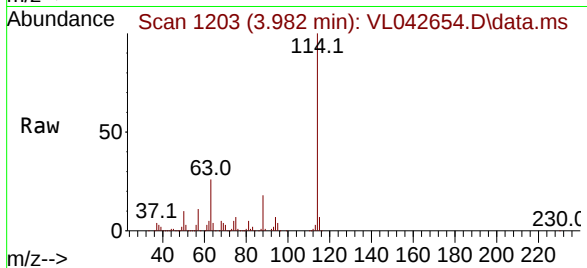
Tgt Ion: 63 Resp: 75637

Ion Ratio Lower Upper

63 100

41 1.0 61.8 92.6#

62 17.9 56.6 85.0#



#41

Tetrahydrofuran

Concen: 0.315 ppbv

RT: 3.075 min Scan# 923

Delta R.T. 0.016 min

Lab File: VL042654.D

Acq: 19 Jun 2025 14:36

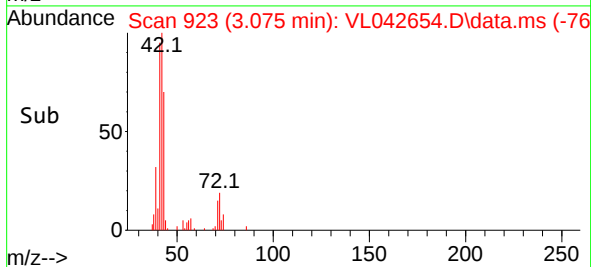
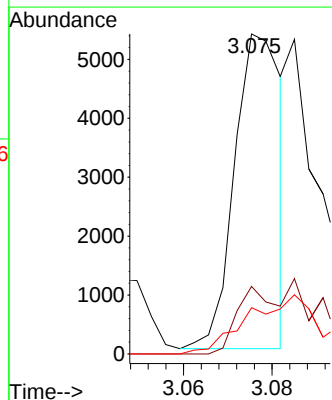
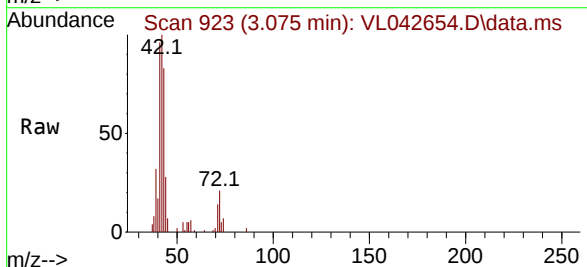
Tgt Ion: 42 Resp: 3922

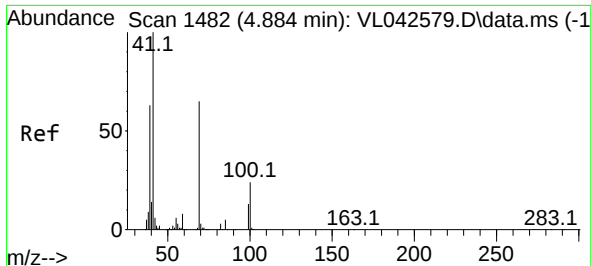
Ion Ratio Lower Upper

42 100

72 0.0 28.9 43.3#

71 0.0 28.5 42.7#





#43
Methyl Methacrylate
Concen: 0.131 ppbv
RT: 4.933 min Scan# 1415
Delta R.T. 0.049 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

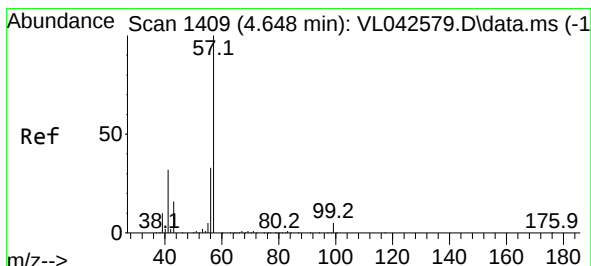
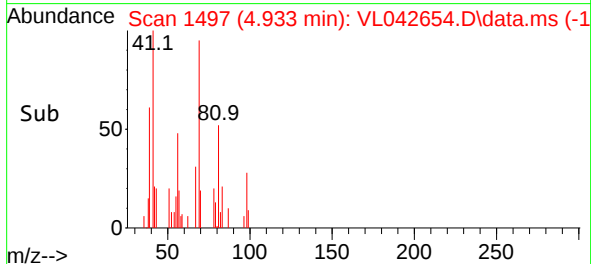
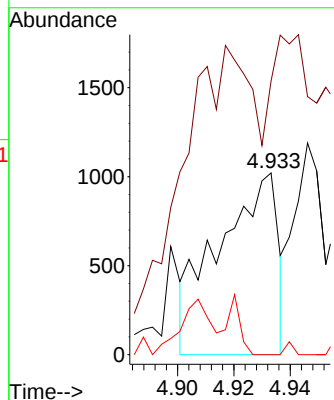
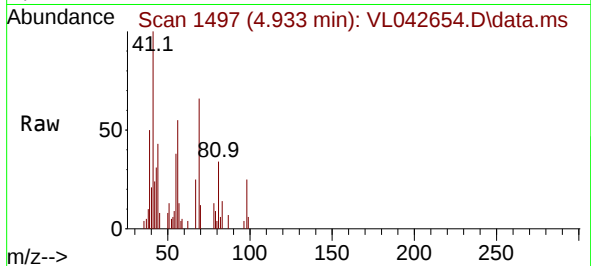
Instrument :

MSVOA_L

ClientSampleId :

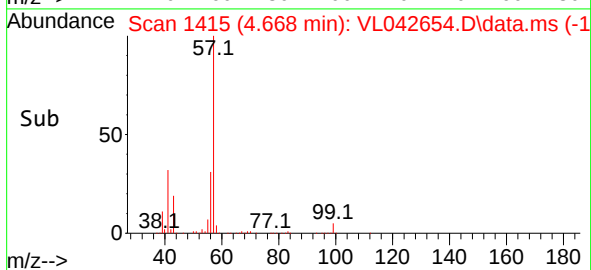
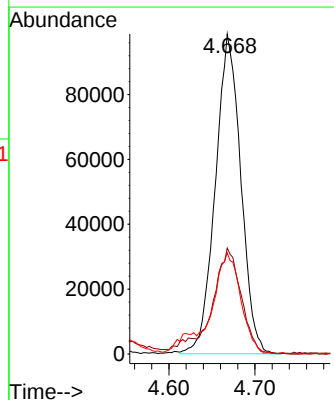
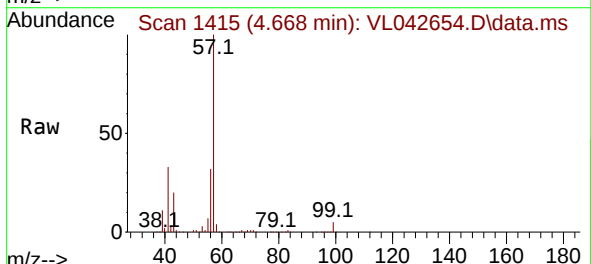
IA1

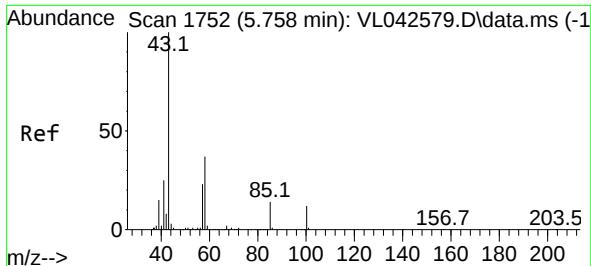
Tgt Ion: 69 Resp: 1488
Ion Ratio Lower Upper
69 100
41 0.0 124.6 187.0#
100 24.8 29.9 44.9#



#44
2,2,4-Trimethylpentane
Concen: 4.037 ppbv
RT: 4.668 min Scan# 1415
Delta R.T. 0.020 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

Tgt Ion: 57 Resp: 202489
Ion Ratio Lower Upper
57 100
41 37.8 26.1 39.1
56 38.6 25.9 38.9

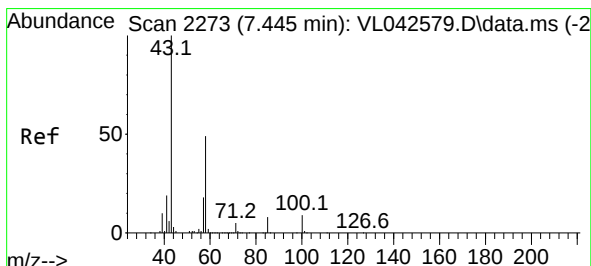
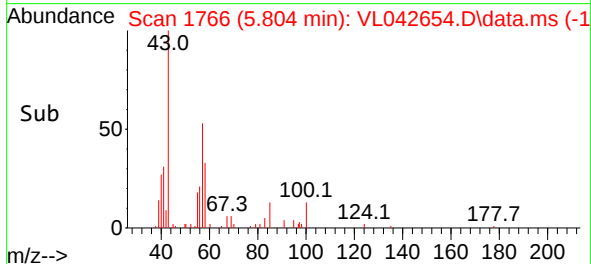
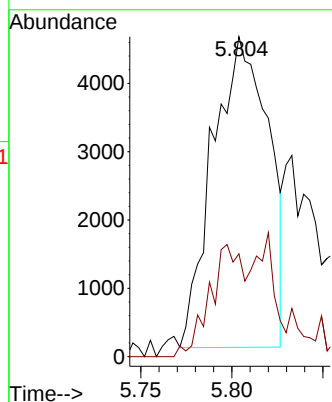
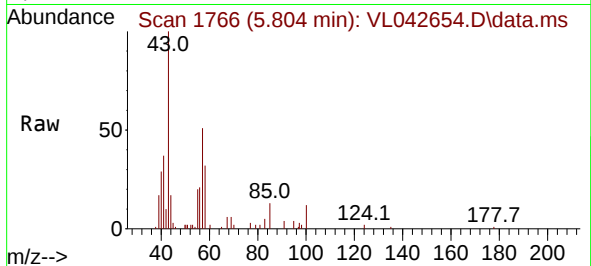




#50
 4-Methyl-2-Pentanone
 Concen: 0.328 ppbv
 RT: 5.804 min Scan# 1766
 Delta R.T. 0.046 min
 Lab File: VL042654.D
 Acq: 19 Jun 2025 14:36

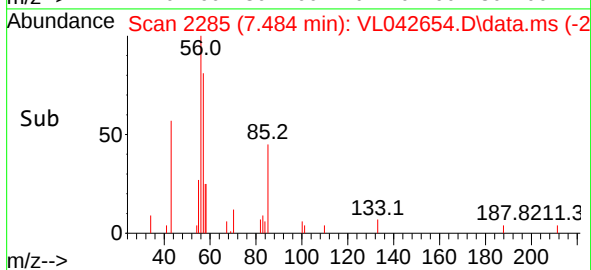
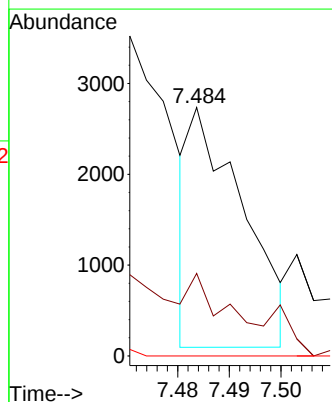
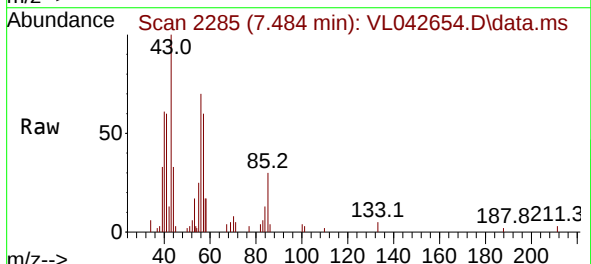
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

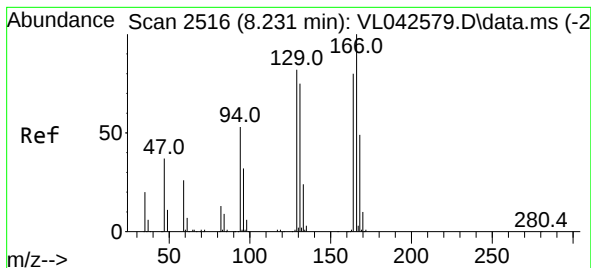
Tgt Ion: 43 Resp: 9648
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.3 42.5#



#51
 2-Hexanone
 Concen: 0.082 ppbv
 RT: 7.484 min Scan# 2285
 Delta R.T. 0.039 min
 Lab File: VL042654.D
 Acq: 19 Jun 2025 14:36

Tgt Ion: 43 Resp: 1906
 Ion Ratio Lower Upper
 43 100
 58 83.6 39.9 59.9#
 98 0.0 0.1 0.1#





#52

Tetrachloroethene

Concen: 160.426 ppbv

RT: 8.264 min Scan# 2125

Delta R.T. 0.033 min

Lab File: VL042654.D

Acq: 19 Jun 2025 14:36

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:164 Resp: 1758047

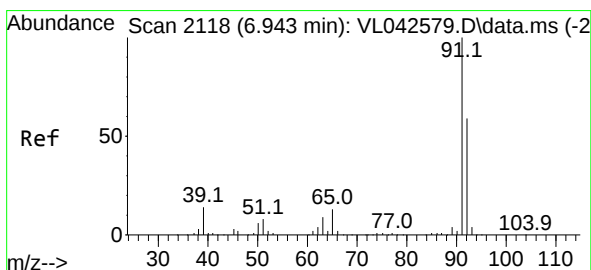
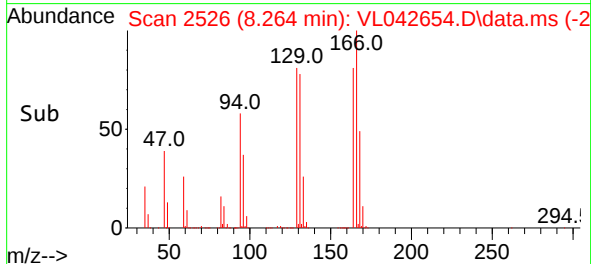
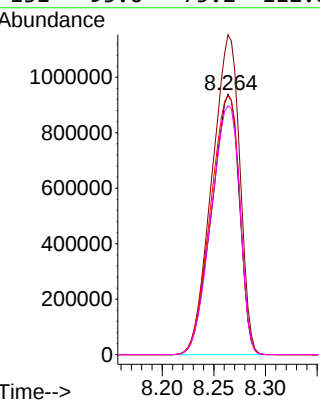
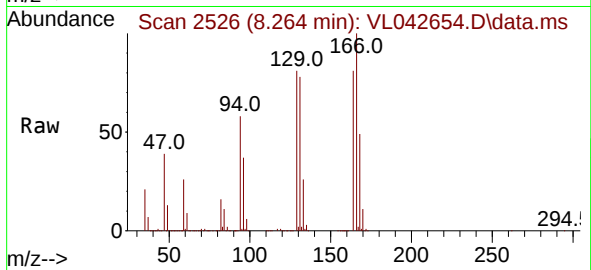
Ion Ratio Lower Upper

164 100

166 122.9 100.0 150.0

129 99.5 82.2 123.4

131 95.6 75.2 112.8



#53

Toluene

Concen: 22.482 ppbv

RT: 6.966 min Scan# 2125

Delta R.T. 0.023 min

Lab File: VL042654.D

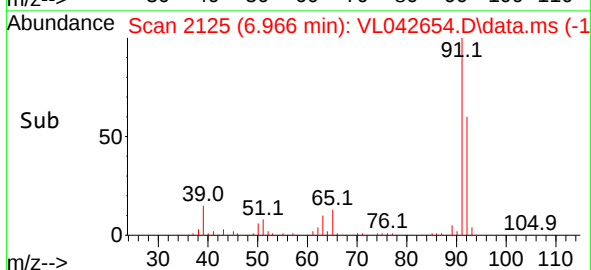
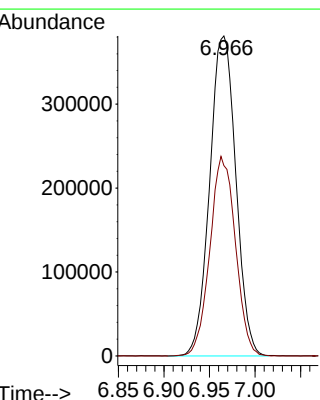
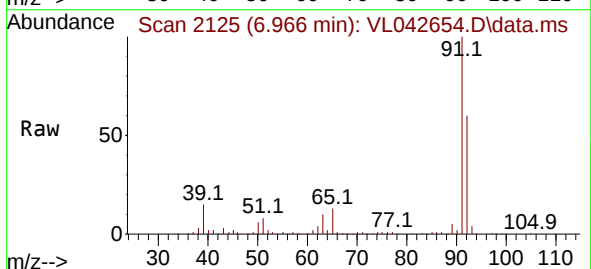
Acq: 19 Jun 2025 14:36

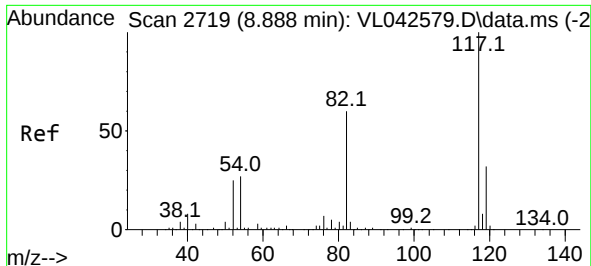
Tgt Ion: 91 Resp: 762011

Ion Ratio Lower Upper

91 100

92 60.8 48.2 72.4

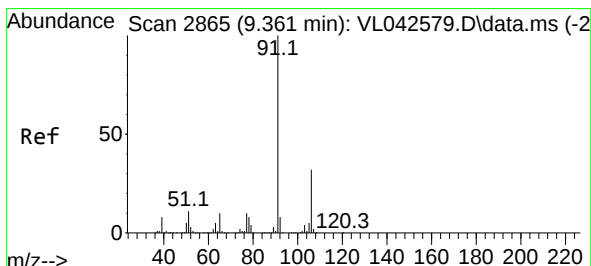
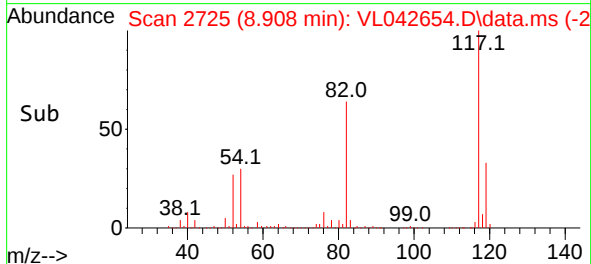
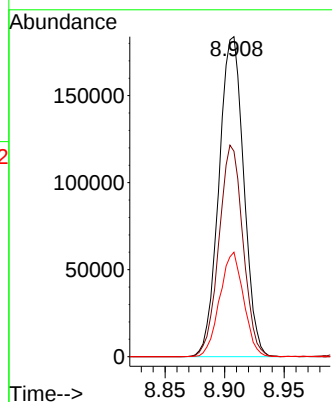
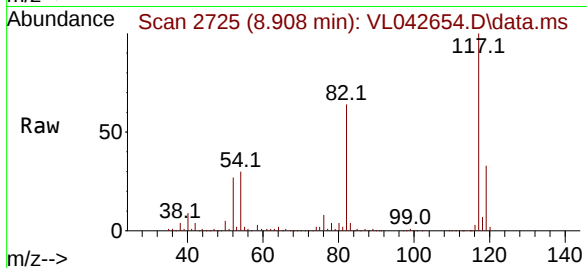




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.908 min Scan# 21
Delta R.T. 0.020 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

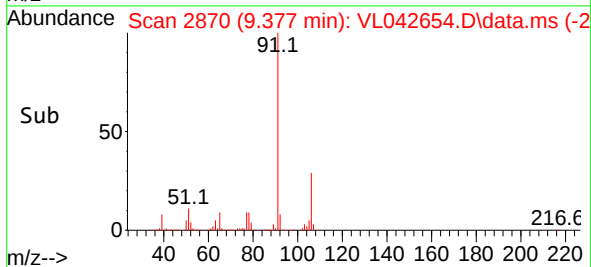
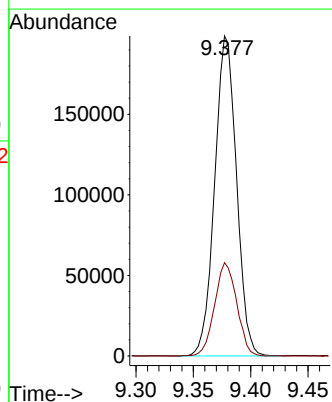
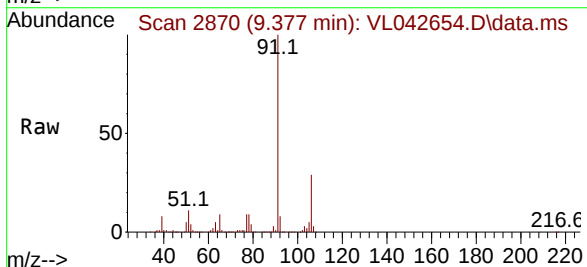
Instrument :
MSVOA_L
ClientSampleId :
IA1

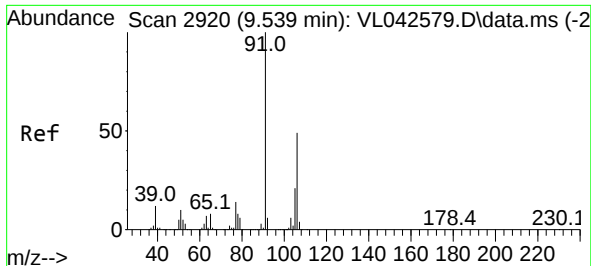
Tgt Ion:117 Resp: 265686
Ion Ratio Lower Upper
117 100
82 64.3 51.2 76.8
119 31.5 26.3 39.5



#58
Ethyl Benzene
Concen: 5.831 ppbv
RT: 9.377 min Scan# 2870
Delta R.T. 0.016 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

Tgt Ion: 91 Resp: 262805
Ion Ratio Lower Upper
91 100
106 29.2 25.9 38.9





#59

m/p-Xylene

Concen: 21.008 ppbv

RT: 9.555 min Scan# 2920

Delta R.T. 0.016 min

Lab File: VL042654.D

Acq: 19 Jun 2025 14:36

Instrument :

MSVOA_1

ClientSampleId :

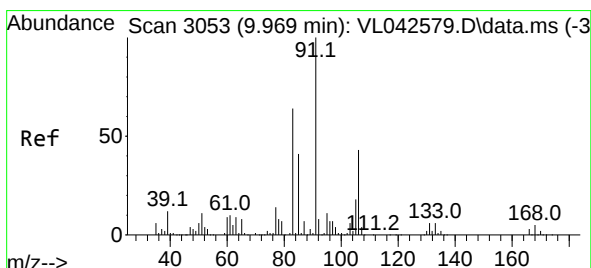
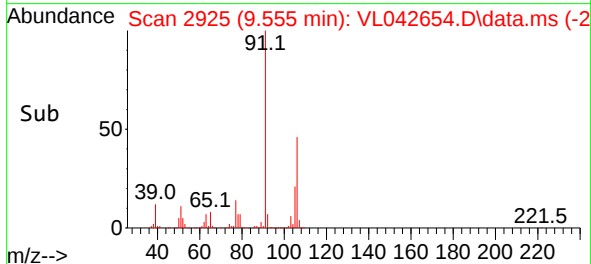
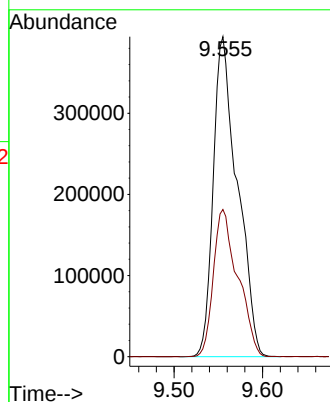
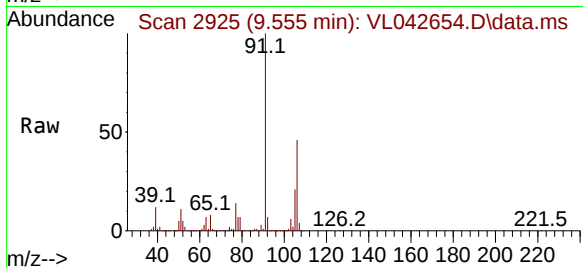
IA1

Tgt Ion: 91 Resp: 745066

Ion Ratio Lower Upper

91 100

106 46.7 38.8 58.2



#60

o-Xylene

Concen: 8.066 ppbv

RT: 9.986 min Scan# 3058

Delta R.T. 0.016 min

Lab File: VL042654.D

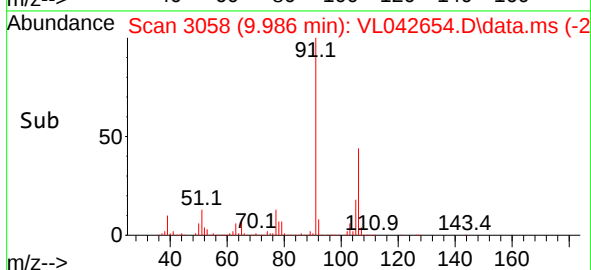
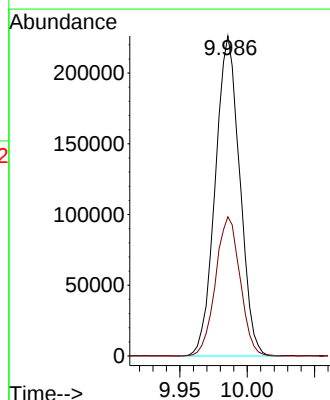
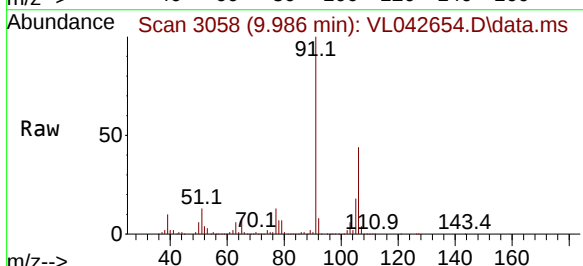
Acq: 19 Jun 2025 14:36

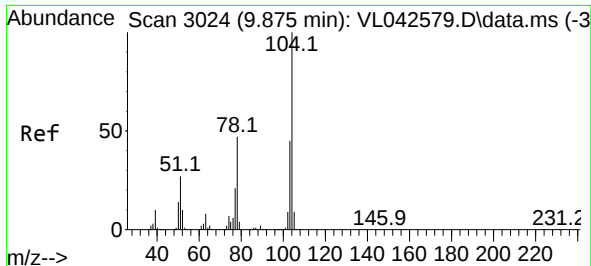
Tgt Ion: 91 Resp: 285317

Ion Ratio Lower Upper

91 100

106 43.6 22.9 68.5

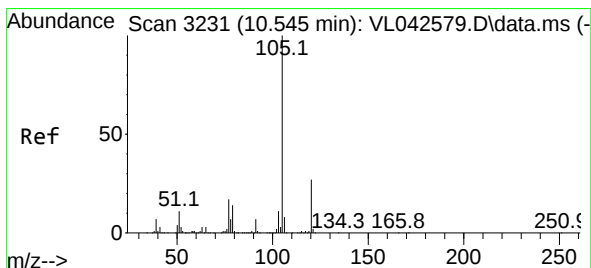
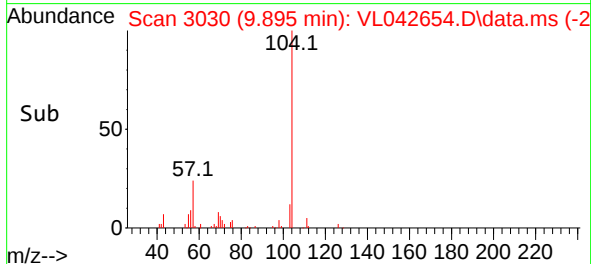
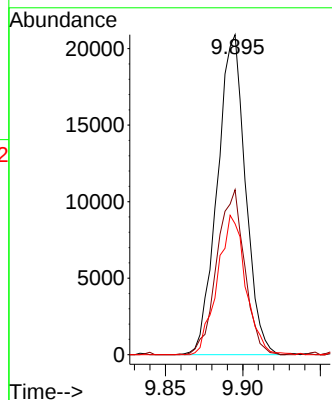
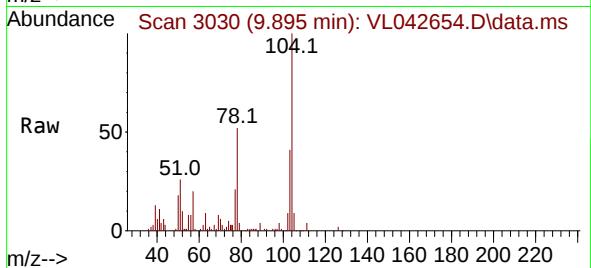




#61
Styrene
Concen: 1.578 ppbv
RT: 9.895 min Scan# 3024
Delta R.T. 0.020 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

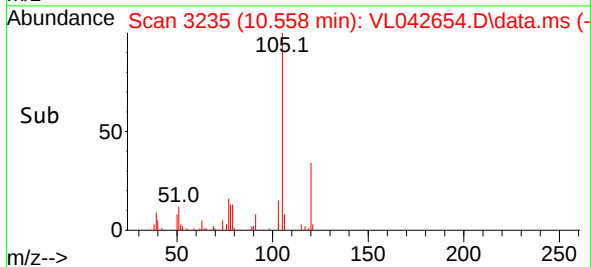
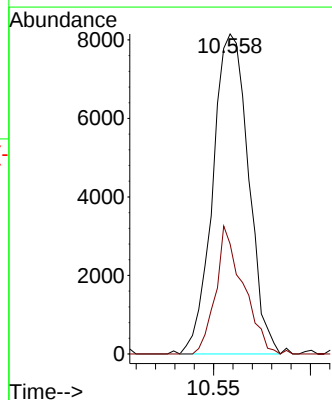
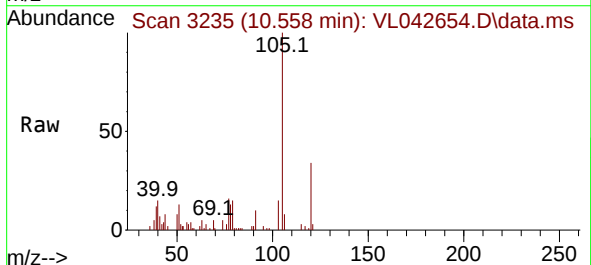
Instrument :
MSVOA_L
ClientSampleId :
IA1

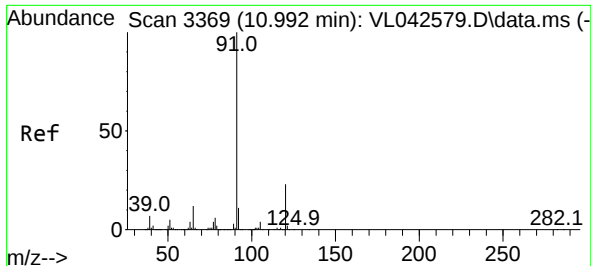
Tgt Ion:104 Resp: 26386
Ion Ratio Lower Upper
104 100
78 50.8 38.2 57.4
103 44.0 36.7 55.1



#62
Isopropylbenzene
Concen: 0.200 ppbv
RT: 10.558 min Scan# 3235
Delta R.T. 0.013 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

Tgt Ion:105 Resp: 10455
Ion Ratio Lower Upper
105 100
120 30.8 20.9 31.3

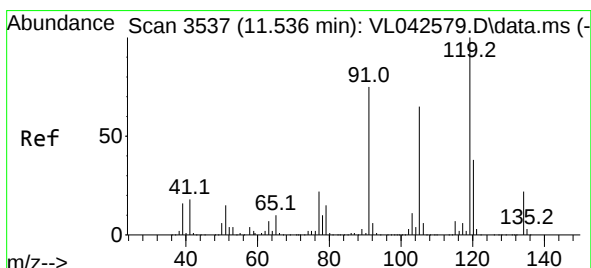
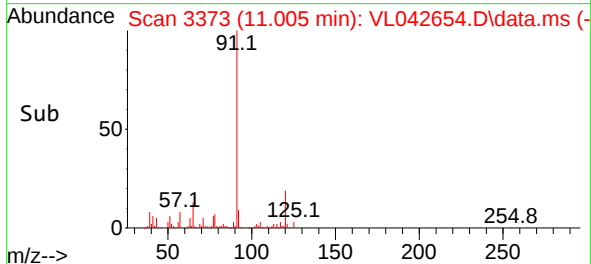
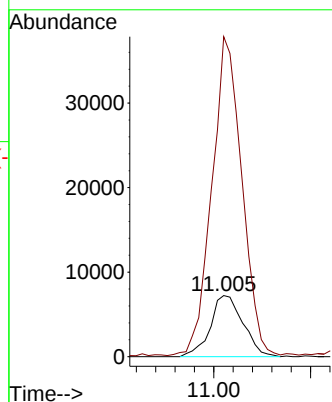
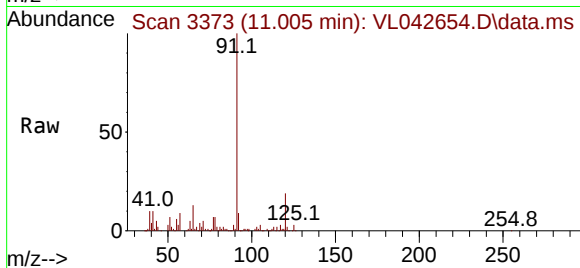




#64
n-propylbenzene
Concen: 0.607 ppbv
RT: 11.005 min Scan# 31
Delta R.T. 0.013 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

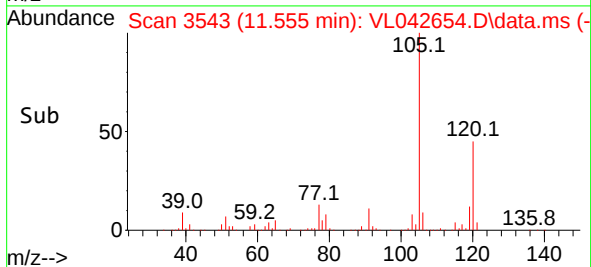
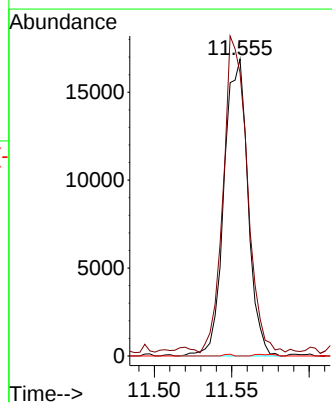
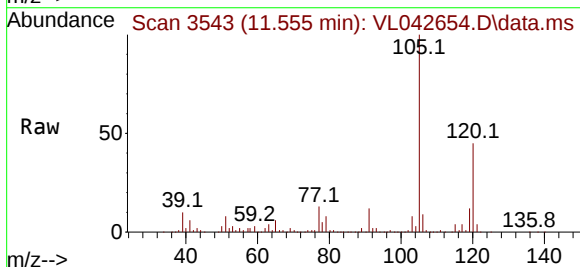
Instrument :
MSVOA_L
ClientSampleId :
IA1

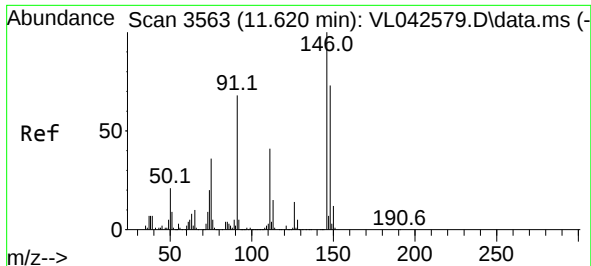
Tgt Ion:120 Resp: 8498
Ion Ratio Lower Upper
120 100
91 477.2 363.0 544.6



#65
tert-Butylbenzene
Concen: 0.381 ppbv
RT: 11.555 min Scan# 3543
Delta R.T. 0.020 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

Tgt Ion:119 Resp: 18059
Ion Ratio Lower Upper
119 100
91 114.6 61.1 91.7#
134 0.6 17.4 26.2#

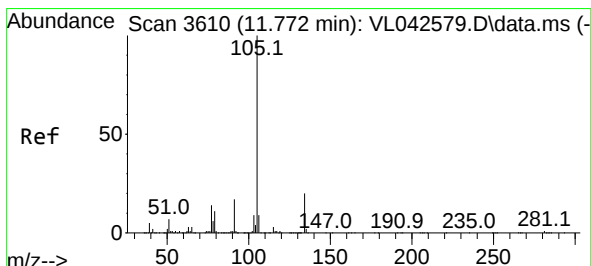
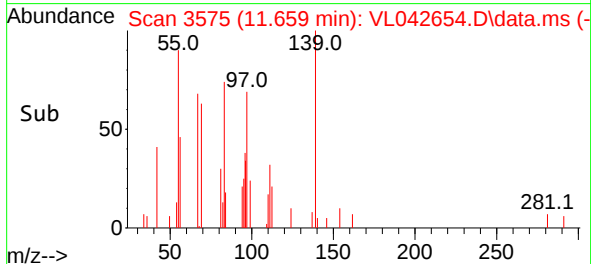
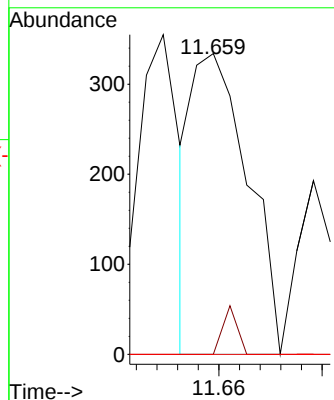
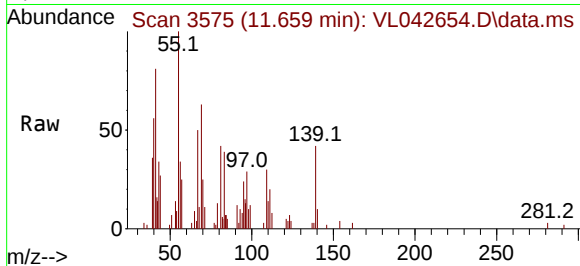




#66
Benzyl Chloride
Concen: 0.041 ppbv
RT: 11.659 min Scan# 3575
Delta R.T. 0.039 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

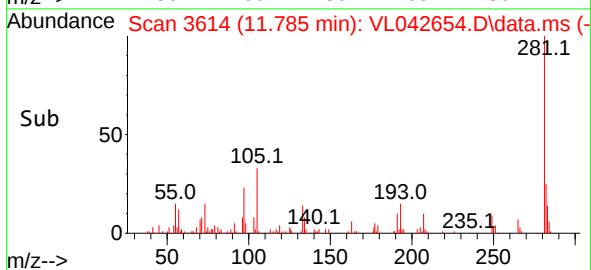
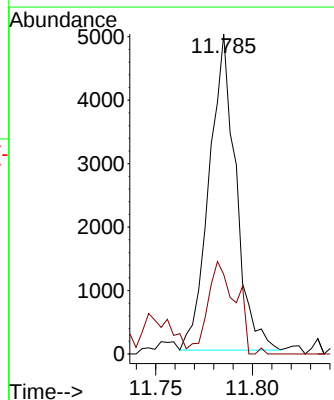
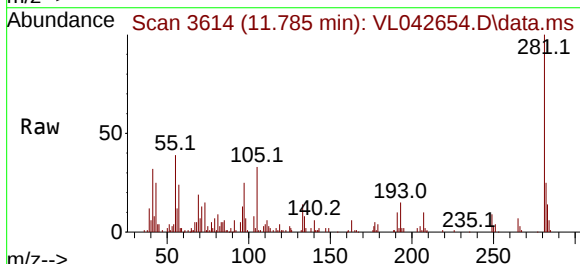
Instrument :
MSVOA_L
ClientSampleId :
IA1

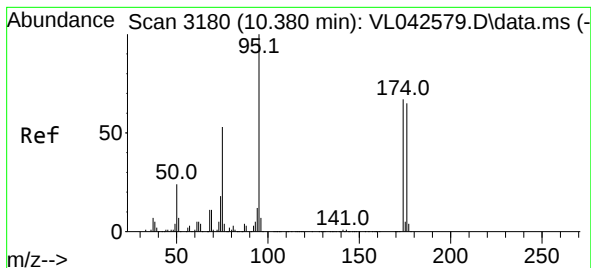
Tgt Ion: 91 Resp: 253
Ion Ratio Lower Upper
91 100
126 37.2 15.1 22.7#
128 0.0 5.0 7.6#



#67
sec-Butylbenzene
Concen: 0.072 ppbv
RT: 11.785 min Scan# 3614
Delta R.T. 0.013 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

Tgt Ion: 105 Resp: 4786
Ion Ratio Lower Upper
105 100
134 45.4 15.8 23.6#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.555 ppbv

RT: 10.397 min Scan# 3180

Delta R.T. 0.016 min

Lab File: VL042654.D

Acq: 19 Jun 2025 14:36

Instrument :

MSVOA_L

ClientSampleId :

IA1

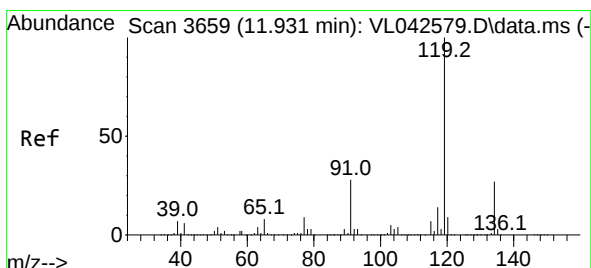
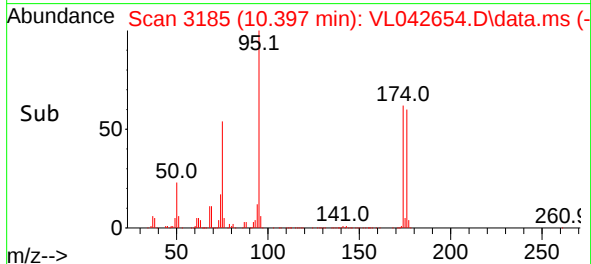
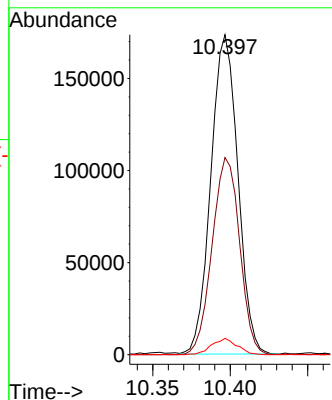
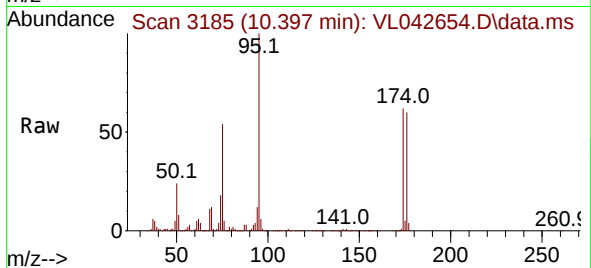
Tgt Ion: 95 Resp: 210213

Ion Ratio Lower Upper

95 100

174 63.0 53.1 79.7

175 4.8 4.2 6.2



#69

p-Isopropyltoluene

Concen: 0.146 ppbv

RT: 11.941 min Scan# 3662

Delta R.T. 0.010 min

Lab File: VL042654.D

Acq: 19 Jun 2025 14:36

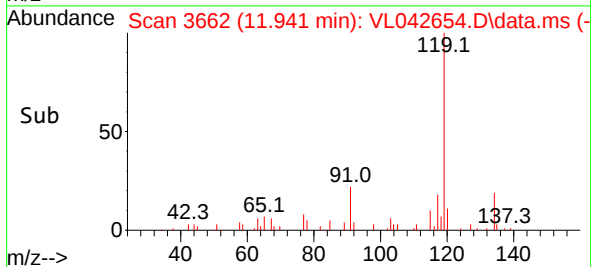
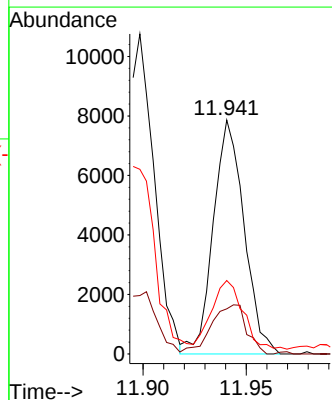
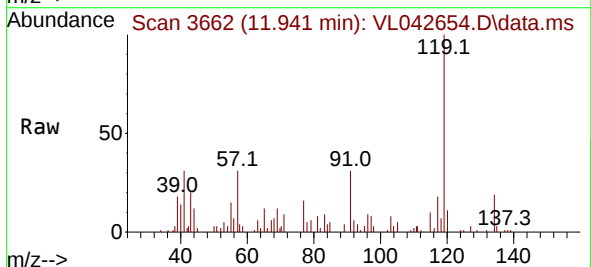
Tgt Ion: 119 Resp: 8167

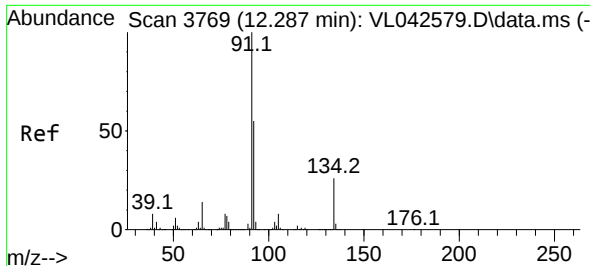
Ion Ratio Lower Upper

119 100

134 23.9 21.1 31.7

91 30.1 21.9 32.9

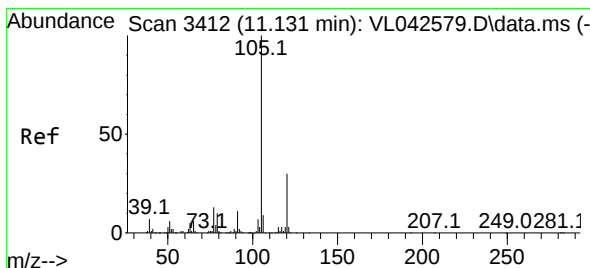
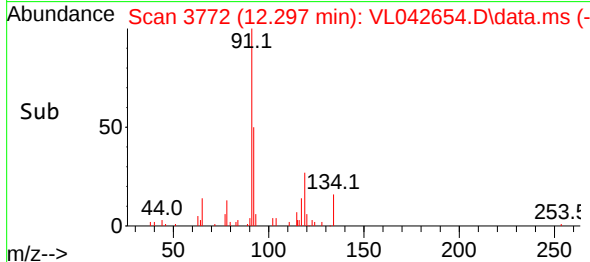
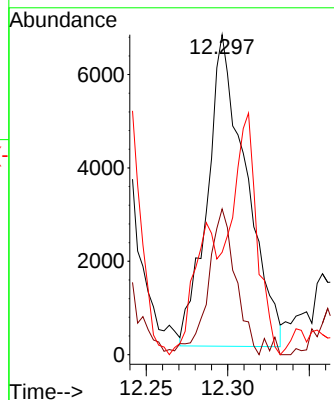
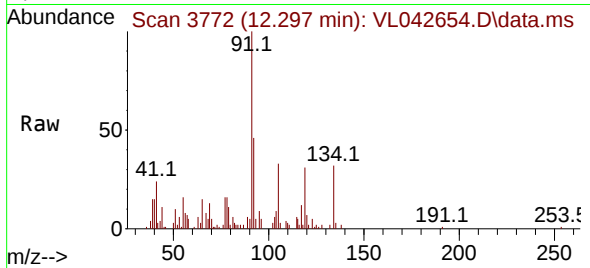




#70
n-Butylbenzene
Concen: 0.199 ppbv
RT: 12.297 min Scan# 3772
Delta R.T. 0.010 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

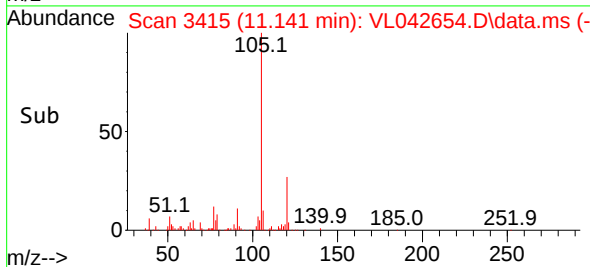
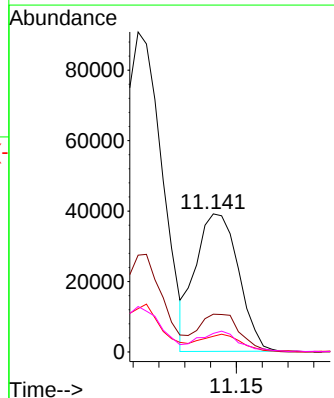
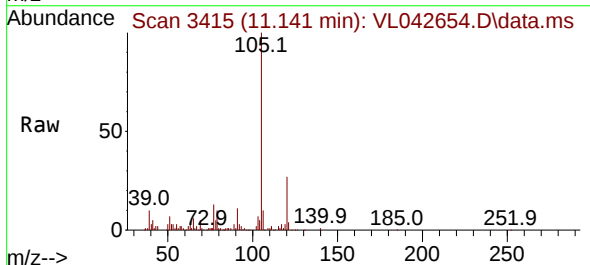
Instrument :
MSVOA_1
ClientSampleId :
IA1

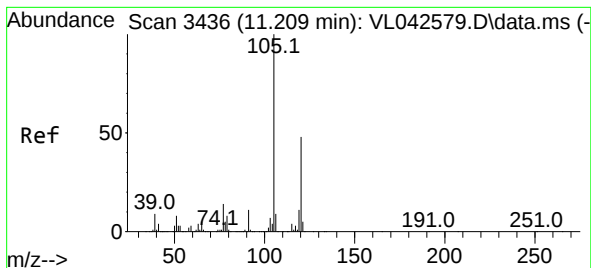
Tgt Ion: 91 Resp: 10981
Ion Ratio Lower Upper
91 100
92 34.8 44.4 66.6#
134 80.3 20.1 30.1#



#72
4-Ethyltoluene
Concen: 1.026 ppbv
RT: 11.141 min Scan# 3415
Delta R.T. 0.010 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

Tgt Ion: 105 Resp: 45232
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: 1.237 ppbv

RT: 11.222 min Scan# 34

Delta R.T. 0.013 min

Lab File: VL042654.D

Acq: 19 Jun 2025 14:36

Instrument :

MSVOA_L

ClientSampleId :

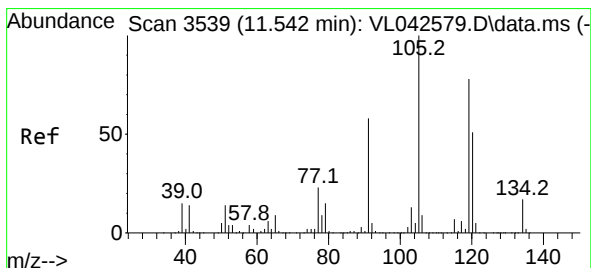
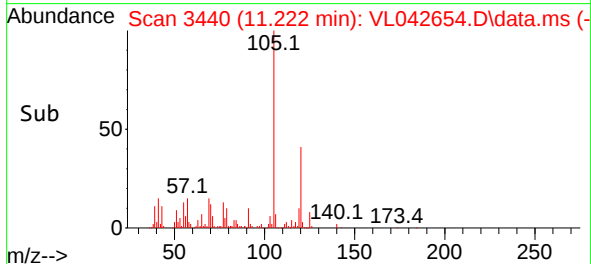
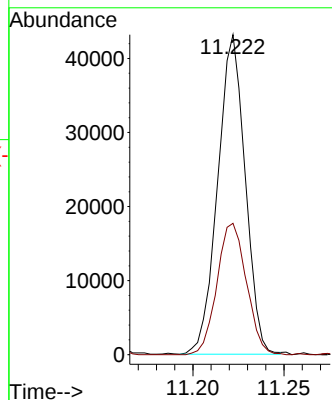
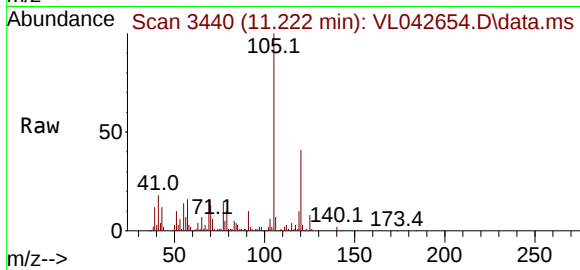
IA1

Tgt Ion:105 Resp: 45144

Ion Ratio Lower Upper

105 100

120 41.1 38.8 58.2



#74

1,2,4-Trimethylbenzene

Concen: 3.908 ppbv

RT: 11.552 min Scan# 3542

Delta R.T. 0.010 min

Lab File: VL042654.D

Acq: 19 Jun 2025 14:36

Tgt Ion:105 Resp: 158301

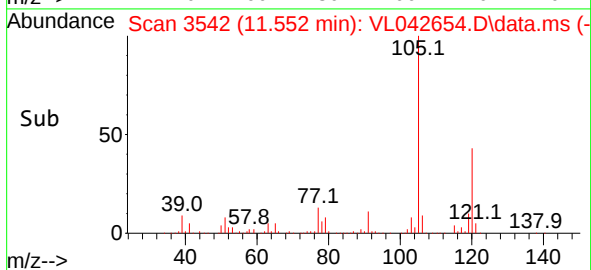
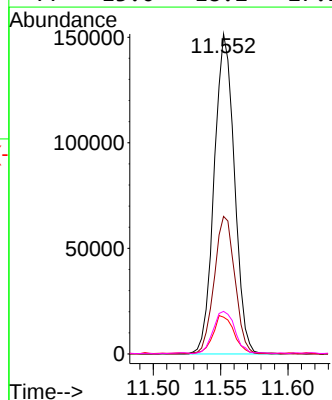
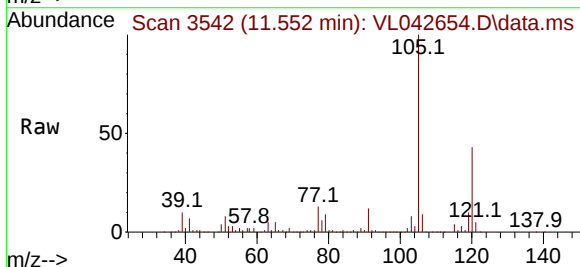
Ion Ratio Lower Upper

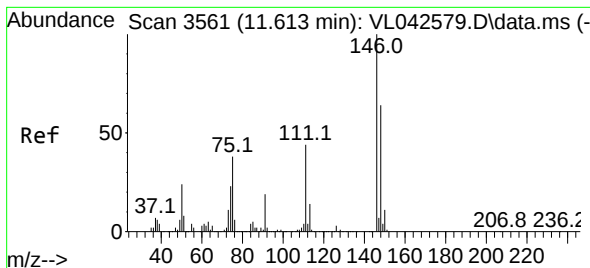
105 100

120 43.0 40.8 61.2

91 11.4 46.8 70.2#

77 13.0 18.2 27.2#





#75

1,3-Dichlorobenzene

Concen: 4.870 ppbv

RT: 11.688 min Scan# 3584

Delta R.T. 0.075 min

Lab File: VL042654.D

Acq: 19 Jun 2025 14:36

Instrument :

MSVOA_L

ClientSampleId :

IA1

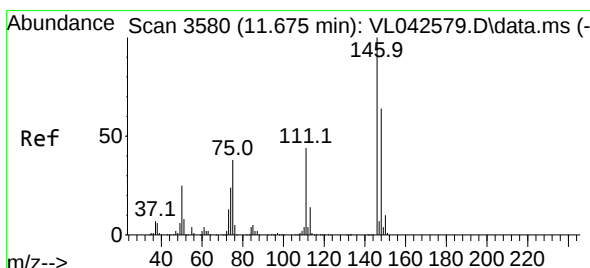
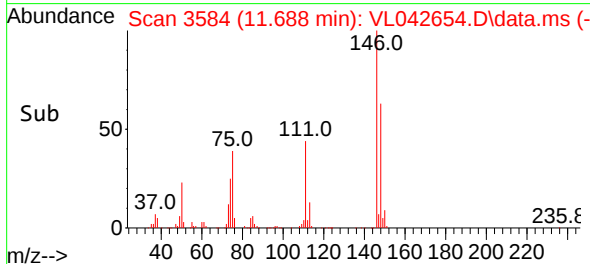
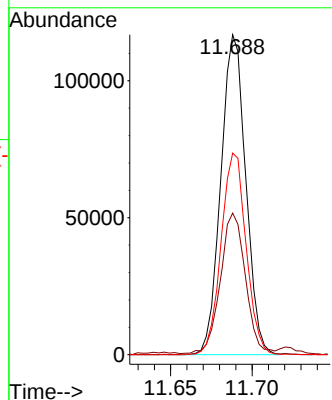
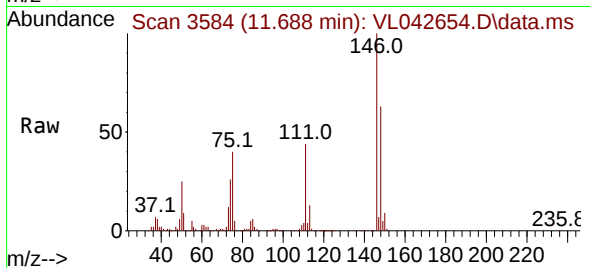
Tgt Ion:146 Resp: 123874

Ion Ratio Lower Upper

146 100

111 47.5 22.4 67.3

148 63.4 32.0 96.2



#76

1,4-Dichlorobenzene

Concen: 4.883 ppbv

RT: 11.688 min Scan# 3584

Delta R.T. 0.013 min

Lab File: VL042654.D

Acq: 19 Jun 2025 14:36

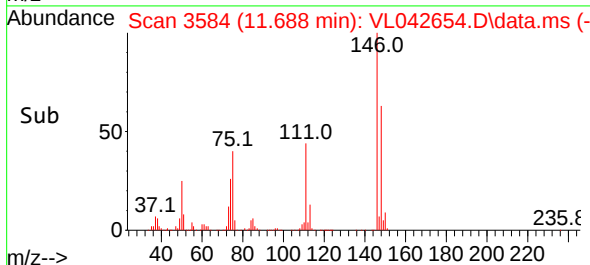
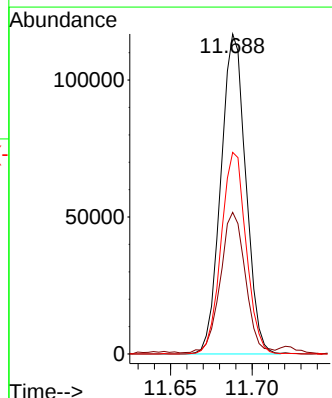
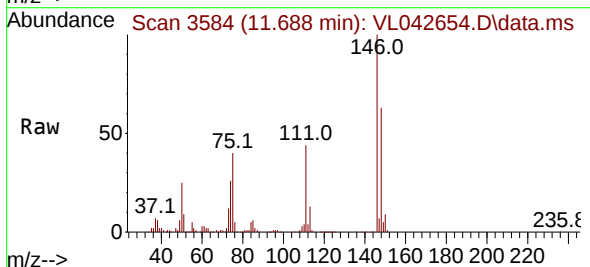
Tgt Ion:146 Resp: 123874

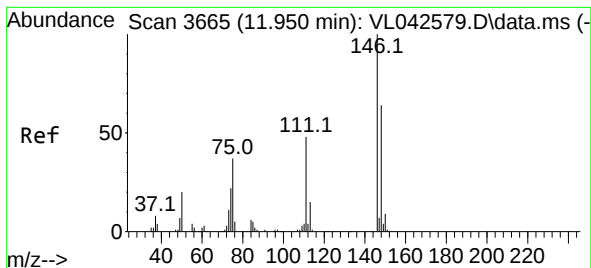
Ion Ratio Lower Upper

146 100

111 47.4 21.6 64.8

148 63.4 32.1 96.5





#77

1,2-Dichlorobenzene

Concen: 5.018 ppbv

RT: 11.688 min Scan# 31

Delta R.T. -0.262 min

Lab File: VL042654.D

Acq: 19 Jun 2025 14:36

Instrument :

MSVOA_L

ClientSampleId :

IA1

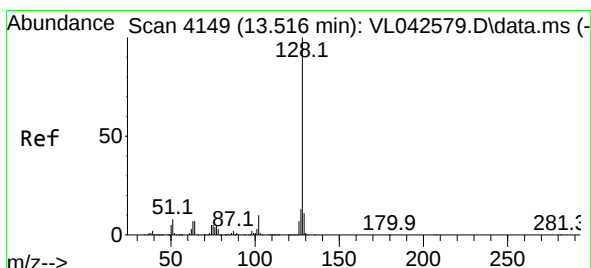
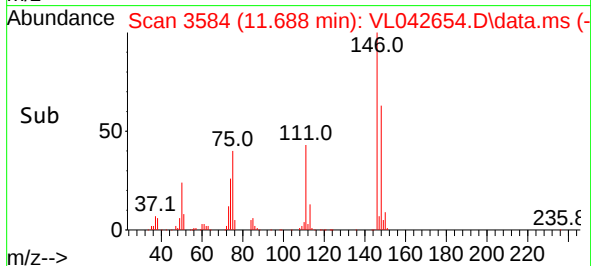
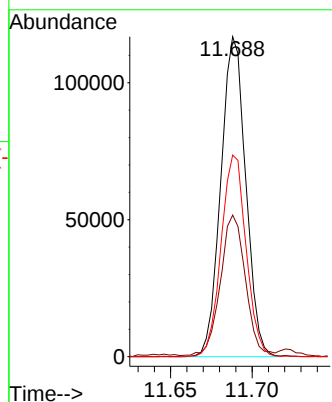
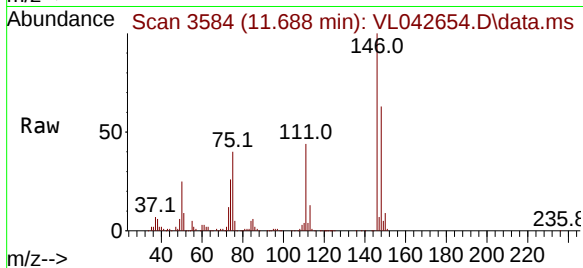
Tgt Ion:146 Resp: 123874

Ion Ratio Lower Upper

146 100

111 46.8 23.1 69.3

148 63.4 32.1 96.3



#79

Naphthalene

Concen: 0.242 ppbv

RT: 13.530 min Scan# 4153

Delta R.T. 0.013 min

Lab File: VL042654.D

Acq: 19 Jun 2025 14:36

Tgt Ion:128 Resp: 9254

Ion Ratio Lower Upper

128 100

127 14.0 10.2 15.4

129 9.7 8.8 13.2

