

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100925\
 Data File : VL043097.D
 Acq On : 09 Oct 2025 20:39
 Operator : SY/MD
 Sample : Q3320-12 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV6

Quant Time: Oct 09 22:21:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Oct 03 08:23:34 2025
 Response via : Initial Calibration

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

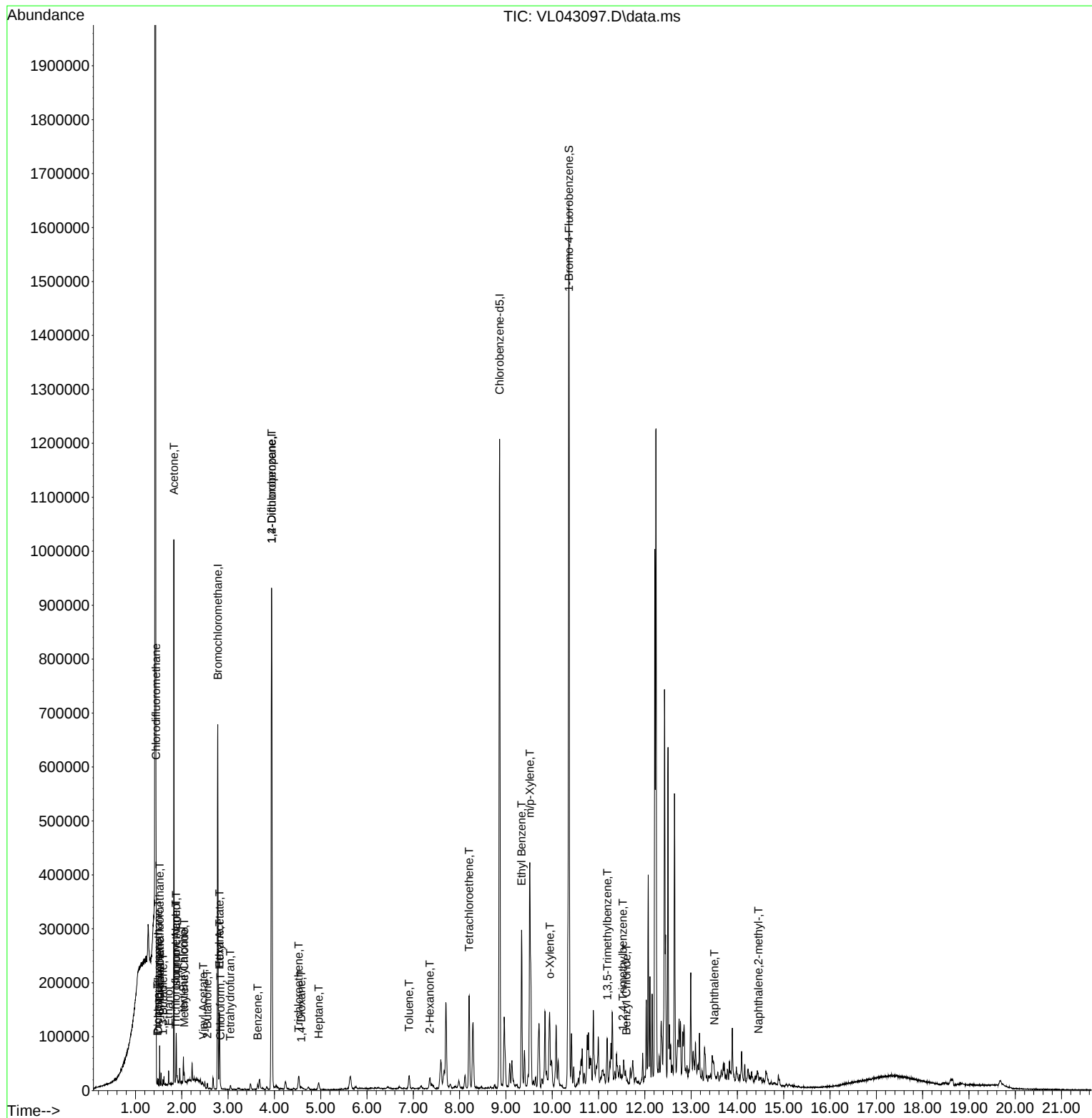
Internal Standards						
1) Bromochloromethane	2.777	49	179161	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.939	114	516837	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.862	117	480307	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.361	95	408138	11.796	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	118.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.492	85	2963	0.098	ppbv	92
3) Chlorodifluoromethane	1.444	51	13935	0.477	ppbv #	63
4) Chloromethane	1.525	50	801	0.073	ppbv #	81
8) Dichlorotetrafluoroethane	1.522	85	2035	0.082	ppbv #	16
9) Propene	1.476	41	2069	0.176	ppbv #	17
10) Heptane	4.959	43	1652	0.057	ppbv #	1
11) Trichlorofluoromethane	1.871	101	2453	0.079	ppbv	98
13) Ethanol	1.716	45	8212	17.971	ppbv #	31
15) Acetone	1.829	43	409717	16.333	ppbv	98
16) 1,3-Butadiene	1.593	39	970	0.094	ppbv #	60
17) tert-Butyl alcohol	2.036	59	17013	0.641	ppbv	94
19) Isopropyl Alcohol	1.881	45	36882	3.069	ppbv #	1
20) Methylene Chloride	2.052	84	2526	0.231	ppbv #	93
23) Vinyl Acetate	2.463	43	408	0.077	ppbv #	1
25) Ethyl Acetate	2.813	43	21147	0.336	ppbv #	78
26) Hexane	2.816	57	27696	1.144	ppbv #	33
29) Chloroform	2.836	83	2003	0.049	ppbv	97
34) 2-Butanone	2.551	43	6599	0.188	ppbv	94
36) Benzene	3.638	78	3761	0.076	ppbv #	86
38) Trichloroethene	4.522	130	4425	0.215	ppbv	99
39) 1,2-Dichloropropane	3.939	63	130300	7.119	ppbv #	23
40) 1,4-Dioxane	4.583	88	253	0.032	ppbv #	1
41) Tetrahydrofuran	3.049	42	1646	0.091	ppbv #	59
51) 2-Hexanone	7.354	43	3068	0.101	ppbv #	44
52) Tetrachloroethene	8.205	164	30608	1.674	ppbv	98
53) Toluene	6.907	91	16951	0.340	ppbv	97
58) Ethyl Benzene	9.338	91	150455	2.022	ppbv	100
59) m/p-Xylene	9.516	91	253469	4.039	ppbv	100
60) o-Xylene	9.950	91	47876	0.766	ppbv	98
66) Benzyl Chloride	11.600	91	134	0.041	ppbv #	65
73) 1,3,5-Trimethylbenzene	11.193	105	2077	0.032	ppbv #	74
74) 1,2,4-Trimethylbenzene	11.526	105	3924	0.054	ppbv #	63
79) Naphthalene	13.500	128	469	0.242	ppbv #	64
80) Naphthalene,2-methyl-	14.455	142	848	0.690	ppbv #	72

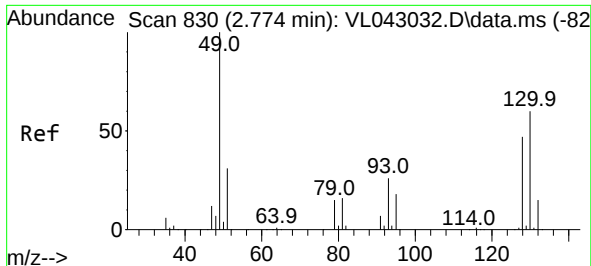
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.777 min Scan# 831

Delta R.T. 0.003 min

Lab File: VL043097.D

Acq: 09 Oct 2025 20:39

Instrument :

MSVOA_L

ClientSampleId :

SV6

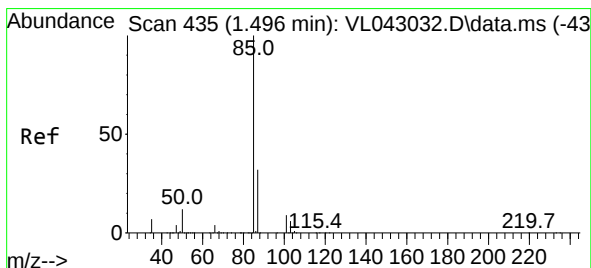
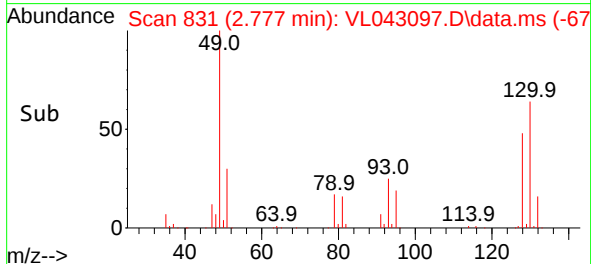
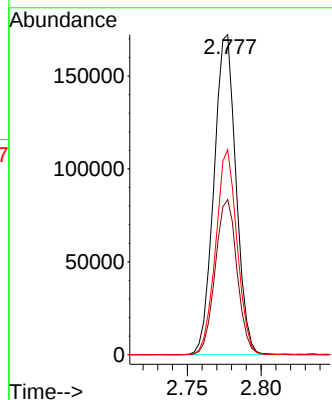
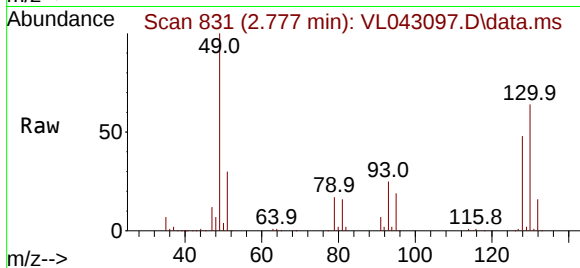
Tgt Ion: 49 Resp: 179161

Ion Ratio Lower Upper

49 100

128 48.0 24.1 72.2

130 62.1 31.4 94.3



#2

Dichlorodifluoromethane

Concen: 0.098 ppbv

RT: 1.492 min Scan# 434

Delta R.T. -0.003 min

Lab File: VL043097.D

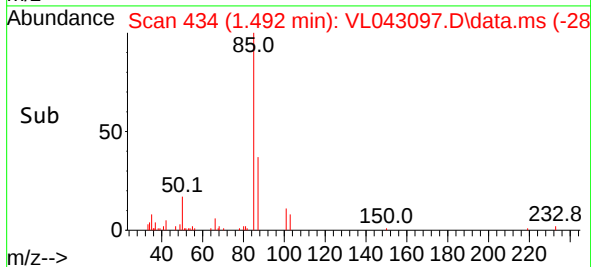
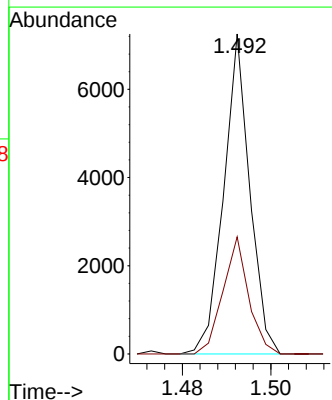
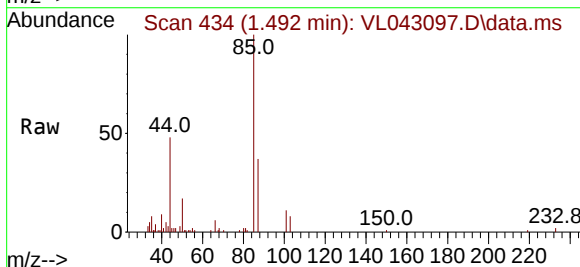
Acq: 09 Oct 2025 20:39

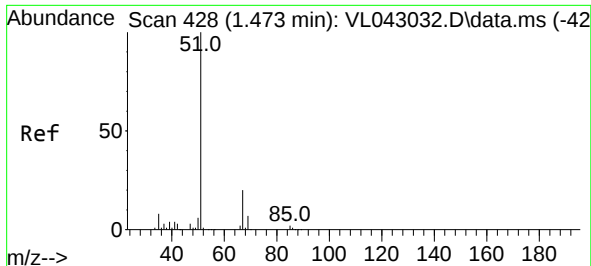
Tgt Ion: 85 Resp: 2963

Ion Ratio Lower Upper

85 100

87 36.6 25.8 38.6

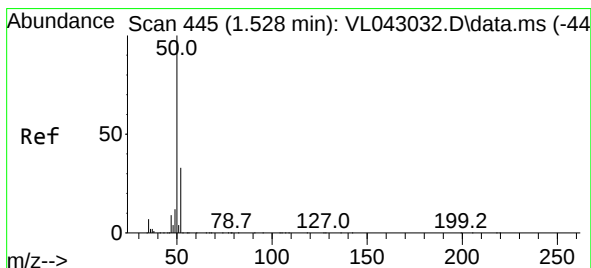
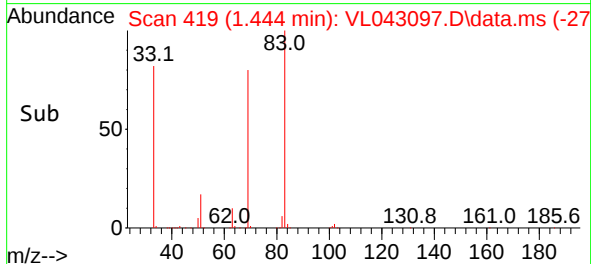
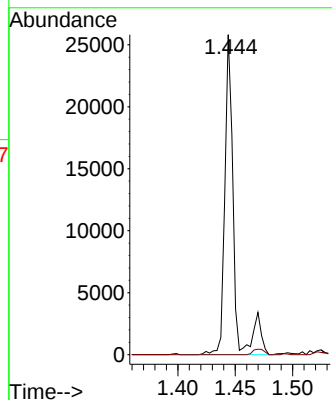
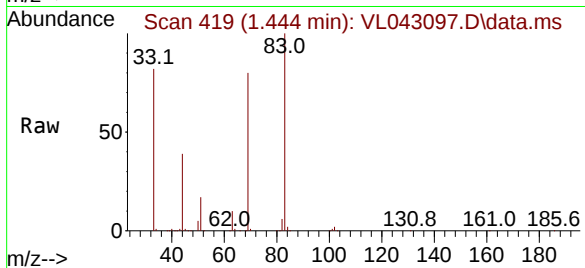




#3
Chlorodifluoromethane
Concen: 0.477 ppbv
RT: 1.444 min Scan# 419
Delta R.T. -0.029 min
Lab File: VL043097.D
Acq: 09 Oct 2025 20:39

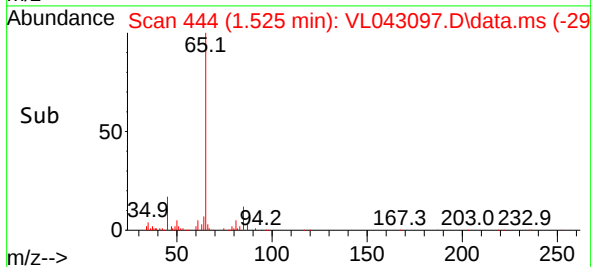
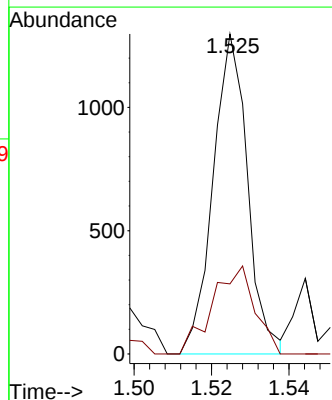
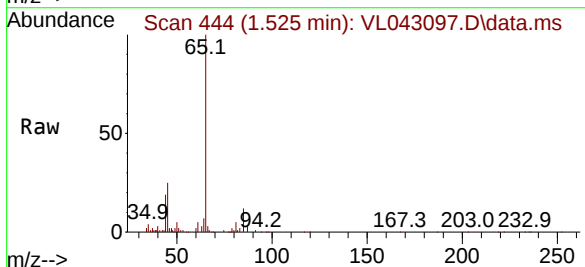
Instrument :
MSVOA_L
ClientSampleId :
SV6

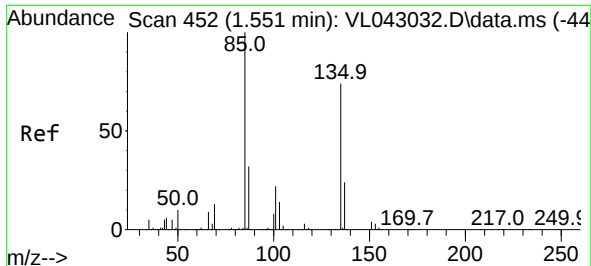
Tgt Ion: 51 Resp: 13935
Ion Ratio Lower Upper
51 100
67 2.1 15.1 22.7#



#4
Chloromethane
Concen: 0.073 ppbv
RT: 1.525 min Scan# 444
Delta R.T. -0.003 min
Lab File: VL043097.D
Acq: 09 Oct 2025 20:39

Tgt Ion: 50 Resp: 801
Ion Ratio Lower Upper
50 100
52 21.9 26.2 39.2#

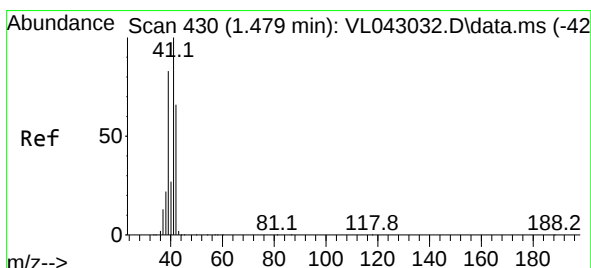
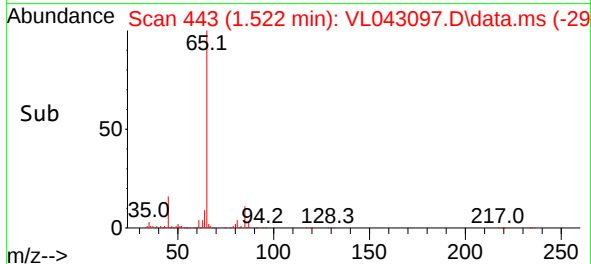
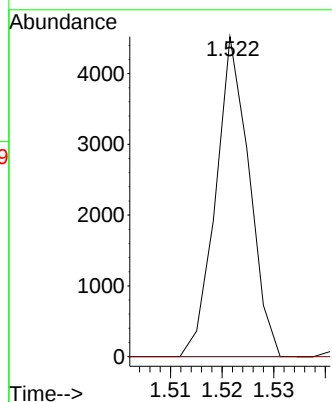
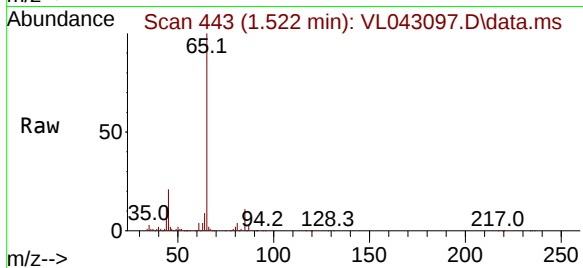




#8
Dichlorotetrafluoroethane
Concen: 0.082 ppbv
RT: 1.522 min Scan# 441
Delta R.T. -0.029 min
Lab File: VL043097.D
Acq: 09 Oct 2025 20:39

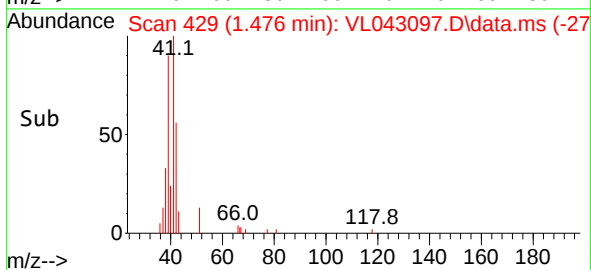
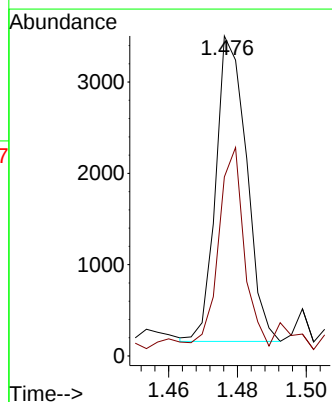
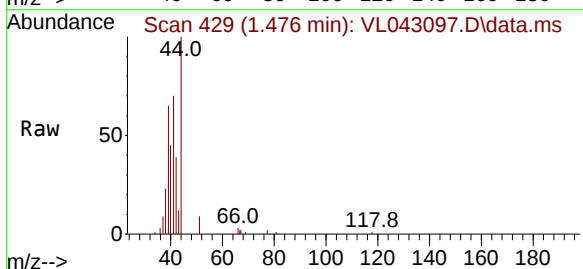
Instrument :
MSVOA_L
ClientSampleId :
SV6

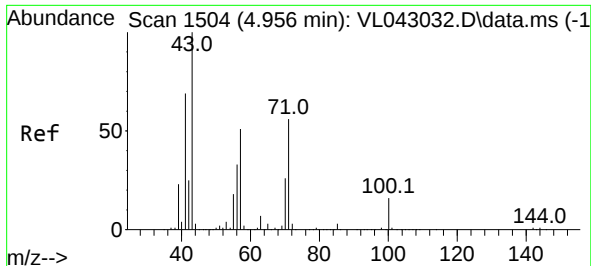
Tgt Ion: 85 Resp: 2035
Ion Ratio Lower Upper
85 100
135 1.0 56.3 84.5#



#9
Propene
Concen: 0.176 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.003 min
Lab File: VL043097.D
Acq: 09 Oct 2025 20:39

Tgt Ion: 41 Resp: 2069
Ion Ratio Lower Upper
41 100
42 0.0 53.3 79.9#





#10

Heptane

Concen: 0.057 ppbv

RT: 4.959 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL043097.D

Acq: 09 Oct 2025 20:39

Instrument :

MSVOA_L

ClientSampleId :

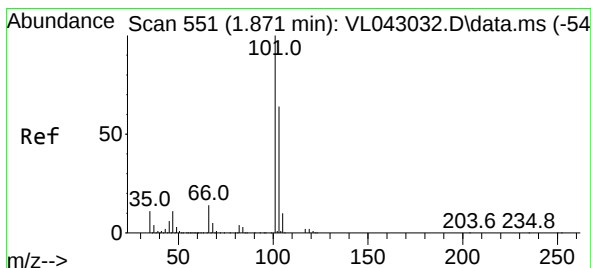
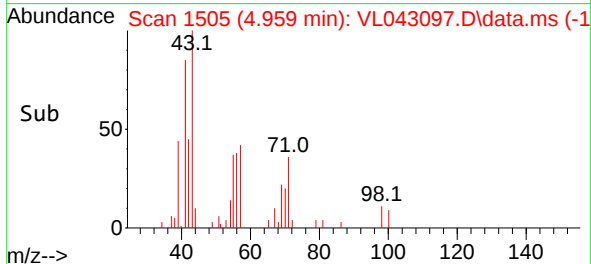
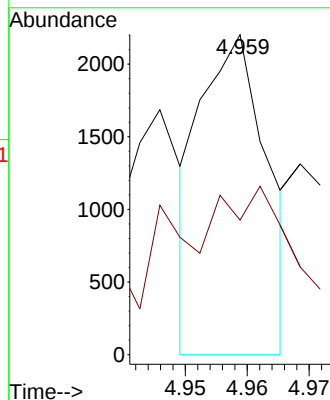
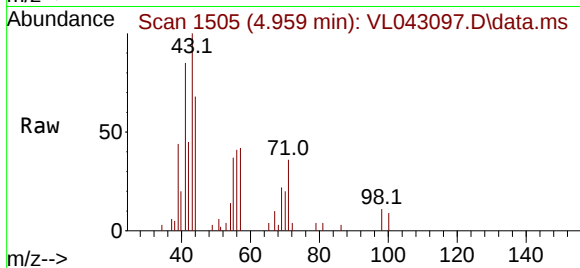
SV6

Tgt Ion: 43 Resp: 1652

Ion Ratio Lower Upper

43 100

57 125.3 40.3 60.5#



#11

Trichlorofluoromethane

Concen: 0.079 ppbv

RT: 1.871 min Scan# 551

Delta R.T. 0.000 min

Lab File: VL043097.D

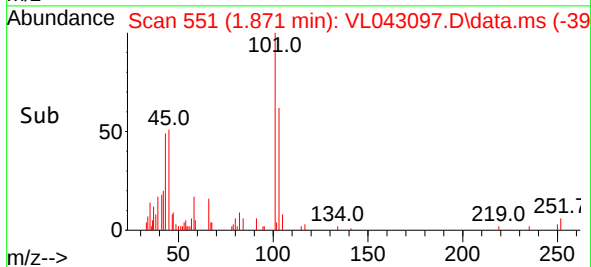
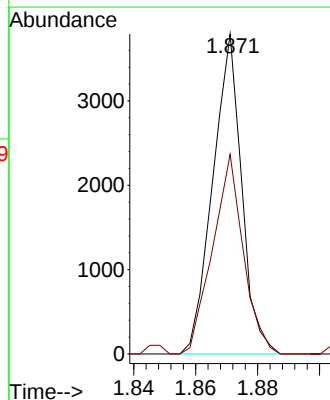
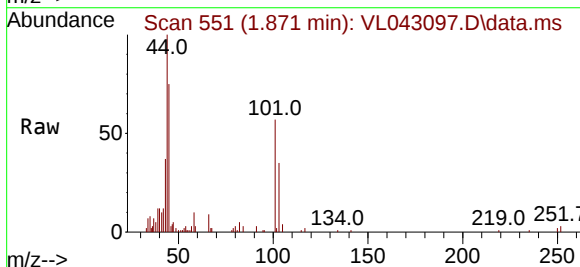
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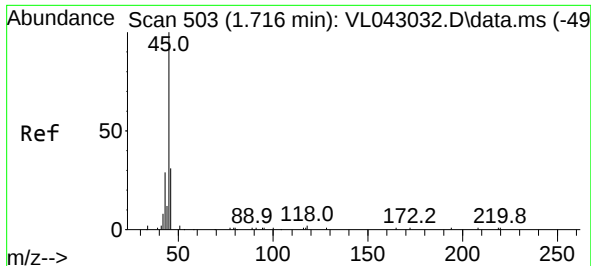
Tgt Ion:101 Resp: 2453

Ion Ratio Lower Upper

101 100

103 62.4 51.1 76.7

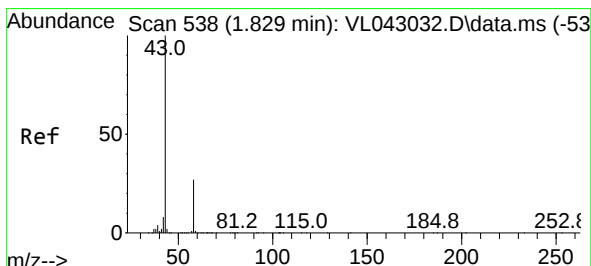
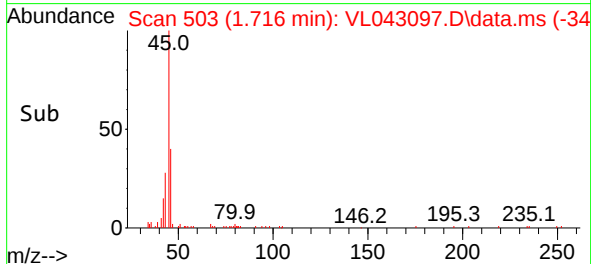
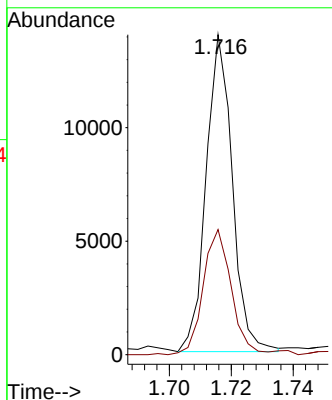
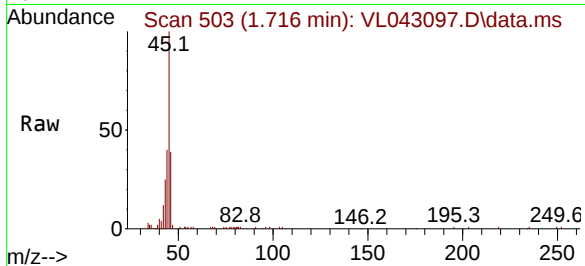




#13
Ethanol
Concen: 17.971 ppbv
RT: 1.716 min Scan# 503
Delta R.T. -0.000 min
Lab File: VL043097.D
Acq: 09 Oct 2025 20:39

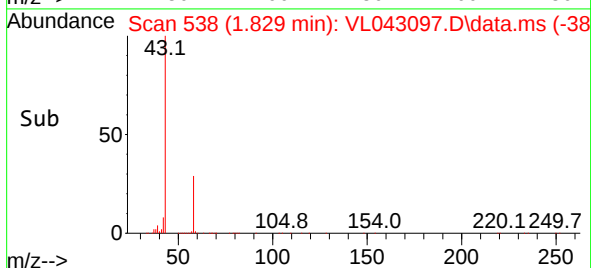
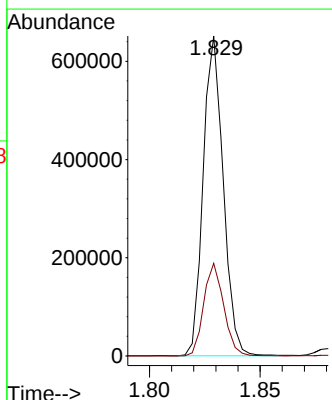
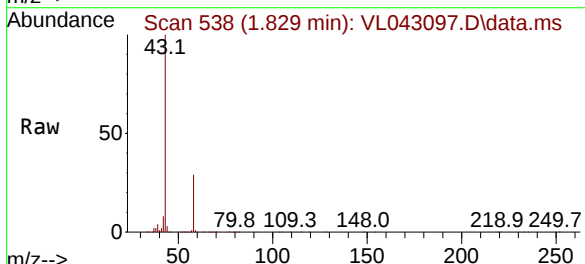
Instrument :
MSVOA_L
ClientSampleId :
SV6

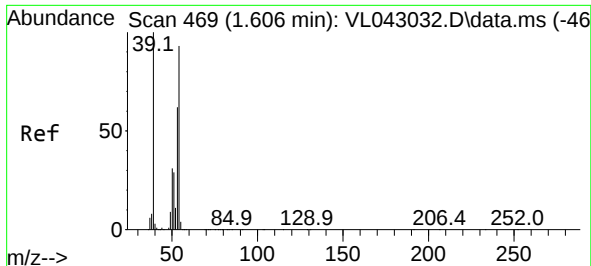
Tgt Ion: 45 Resp: 8212
Ion Ratio Lower Upper
45 100
46 0.0 17.8 71.4#



#15
Acetone
Concen: 16.333 ppbv
RT: 1.829 min Scan# 538
Delta R.T. 0.000 min
Lab File: VL043097.D
Acq: 09 Oct 2025 20:39

Tgt Ion: 43 Resp: 409717
Ion Ratio Lower Upper
43 100
58 28.9 22.2 33.4

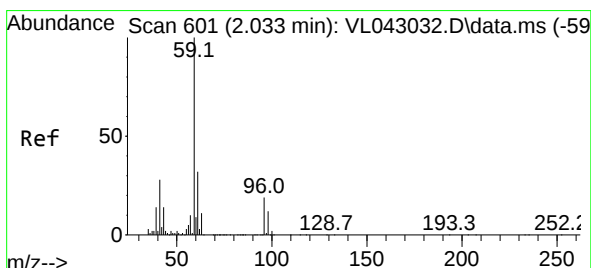
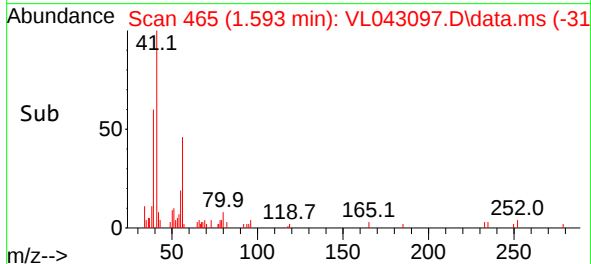
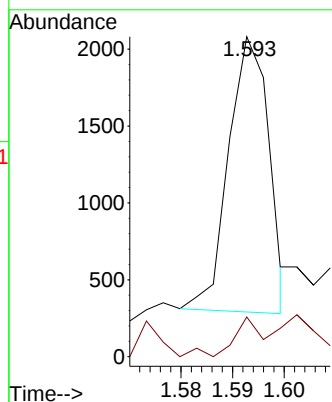
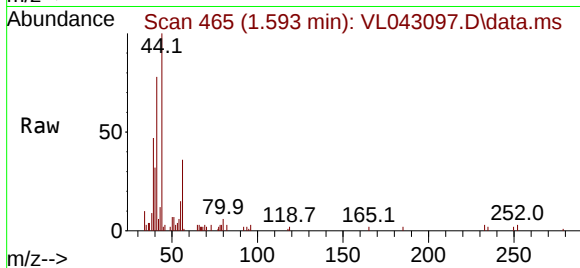




#16
1,3-Butadiene
Concen: 0.094 ppbv
RT: 1.593 min Scan# 41
Delta R.T. -0.013 min
Lab File: VL043097.D
Acq: 09 Oct 2025 20:39

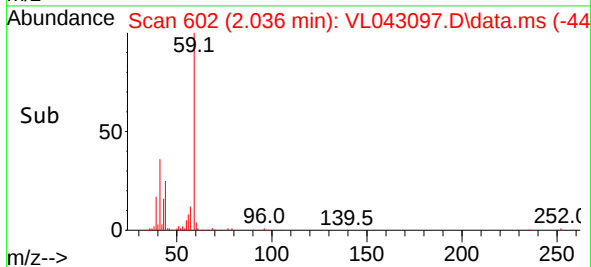
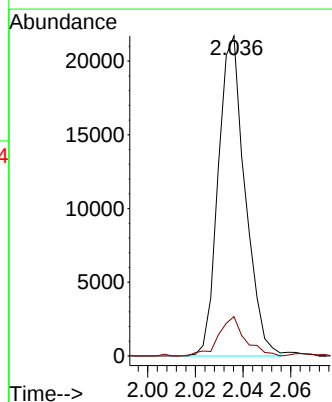
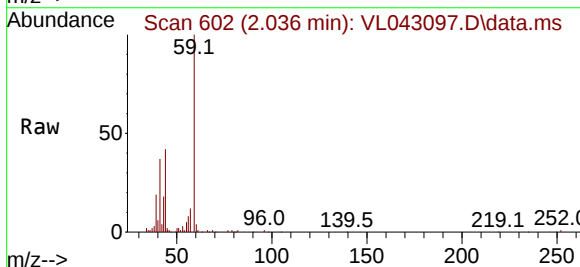
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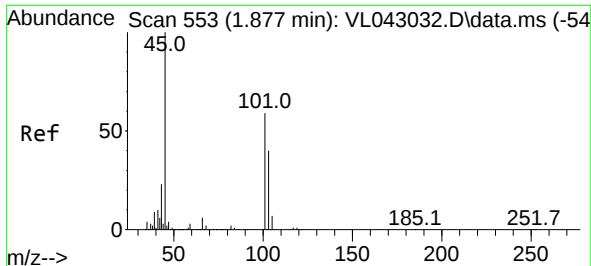
Tgt Ion: 39 Resp: 970
Ion Ratio Lower Upper
39 100
54 42.2 61.4 92.2#



#17
tert-Butyl alcohol
Concen: 0.641 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL043097.D
Acq: 09 Oct 2025 20:39

Tgt Ion: 59 Resp: 17013
Ion Ratio Lower Upper
59 100
57 12.7 8.5 12.7

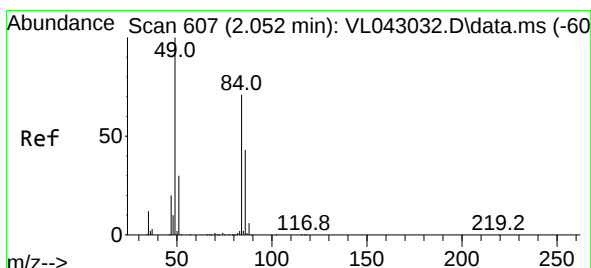
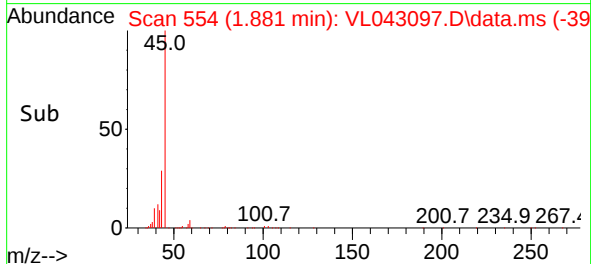
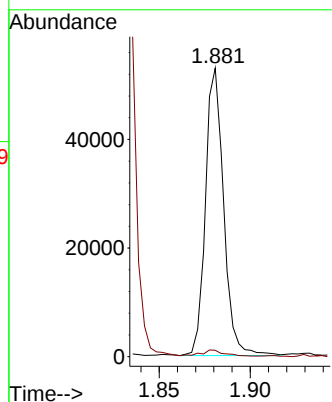
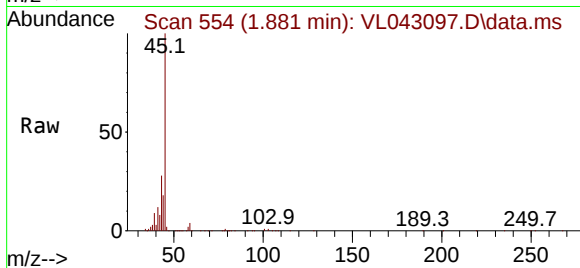




#19
Isopropyl Alcohol
Concen: 3.069 ppbv
RT: 1.881 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL043097.D
Acq: 09 Oct 2025 20:39

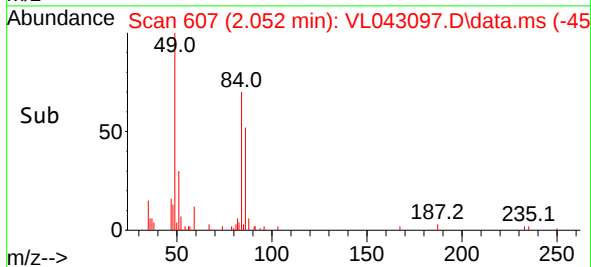
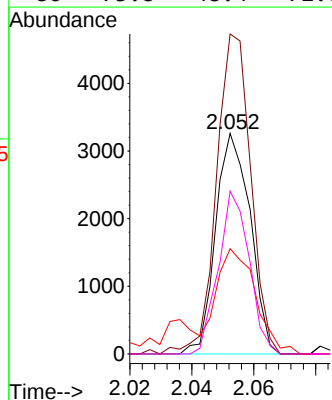
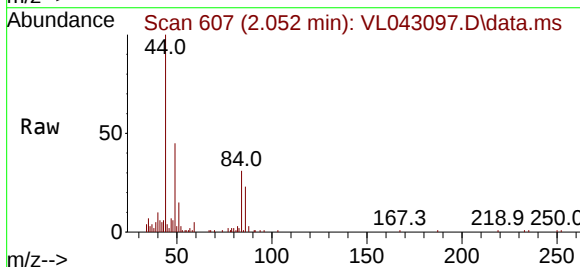
Instrument :
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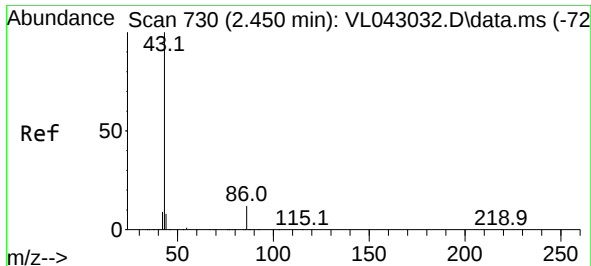
Tgt Ion: 45 Resp: 36882
Ion Ratio Lower Upper
45 100
58 320.9 42.3 63.5#



#20
Methylene Chloride
Concen: 0.231 ppbv
RT: 2.052 min Scan# 607
Delta R.T. 0.000 min
Lab File: VL043097.D
Acq: 09 Oct 2025 20:39

Tgt Ion: 84 Resp: 2526
Ion Ratio Lower Upper
84 100
49 145.1 112.5 168.7
51 45.0 34.2 51.2
86 73.8 48.4 72.6#

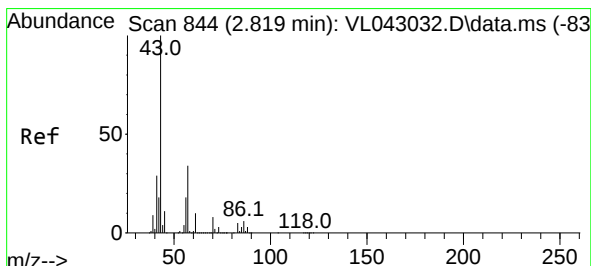
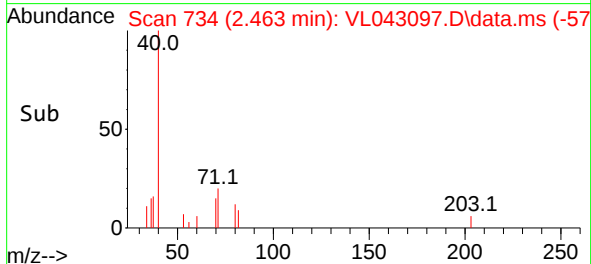
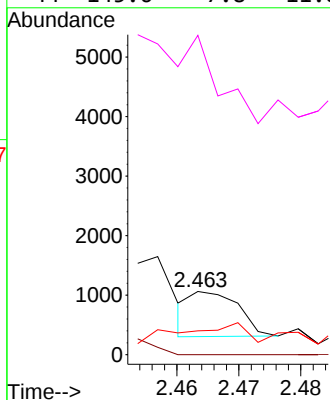
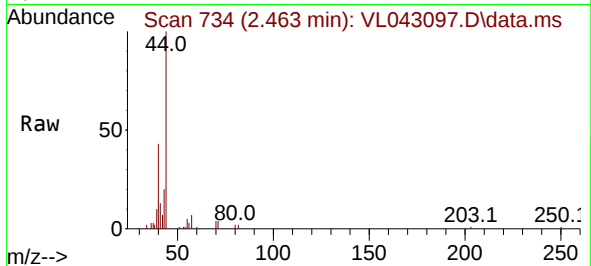




#23
 Vinyl Acetate
 Concen: 0.077 ppbv
 RT: 2.463 min Scan# 71
 Delta R.T. 0.013 min
 Lab File: VL043097.D
 Acq: 09 Oct 2025 20:39

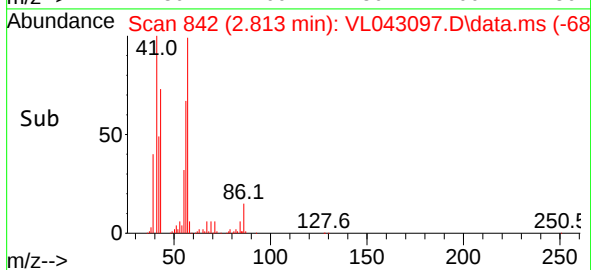
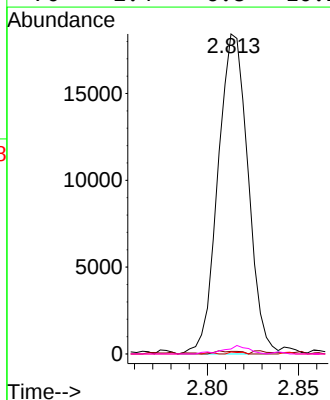
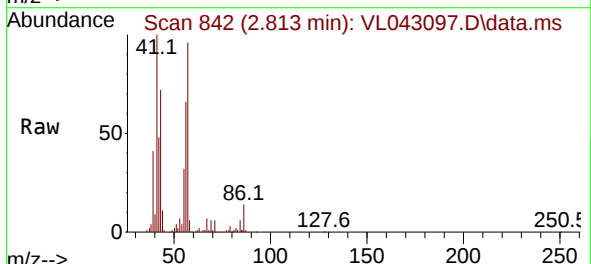
Instrument :
 MSVOA_L
 ClientSampleId :
 SV6

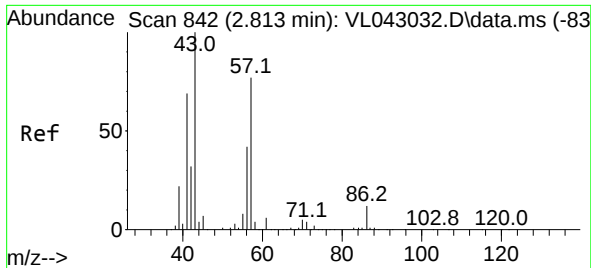
Tgt Ion:	43	Resp:	408
Ion	Ratio	Lower	Upper
43	100		
86	0.0	7.5	11.3#
42	4.8	8.4	12.6#
44	145.6	7.8	11.8#



#25
 Ethyl Acetate
 Concen: 0.336 ppbv
 RT: 2.813 min Scan# 842
 Delta R.T. -0.006 min
 Lab File: VL043097.D
 Acq: 09 Oct 2025 20:39

Tgt Ion:	43	Resp:	21147
Ion	Ratio	Lower	Upper
43	100		
45	1.9	8.3	12.5#
61	0.4	7.5	11.3#
70	2.4	6.8	10.2#

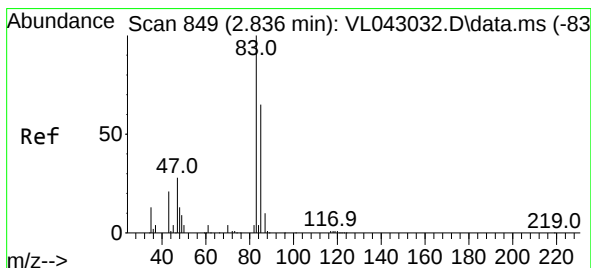
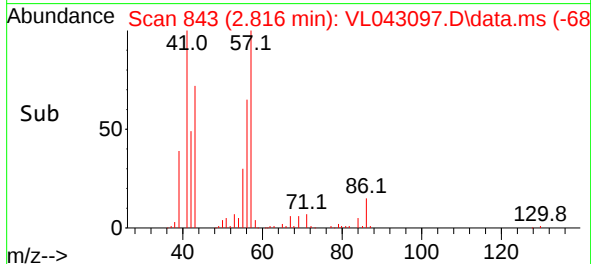
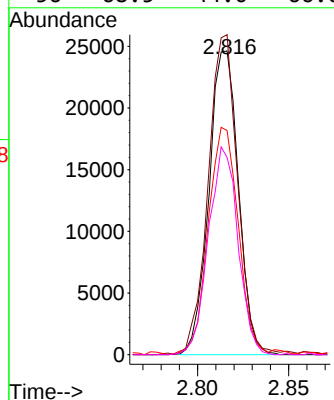
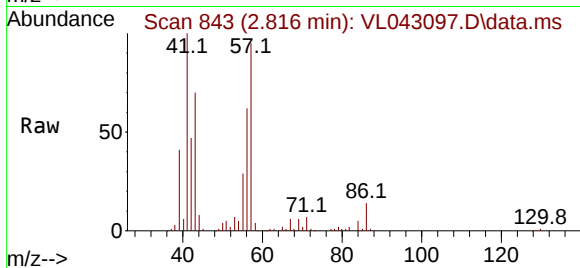




#26
Hexane
Concen: 1.144 ppbv
RT: 2.816 min Scan# 842
Delta R.T. 0.003 min
Lab File: VL043097.D
Acq: 09 Oct 2025 20:39

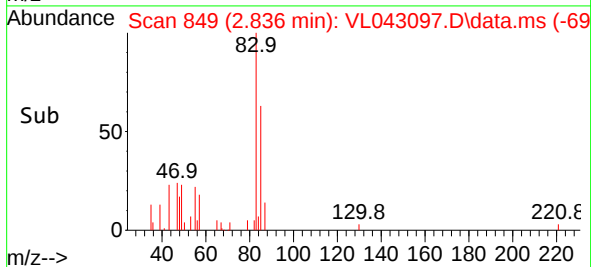
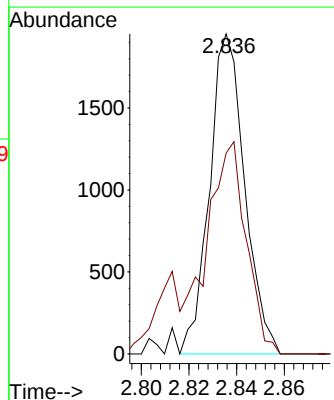
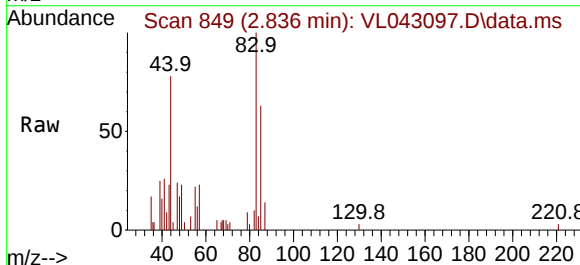
Instrument :
MSVOA_L
ClientSampleId :
SV6

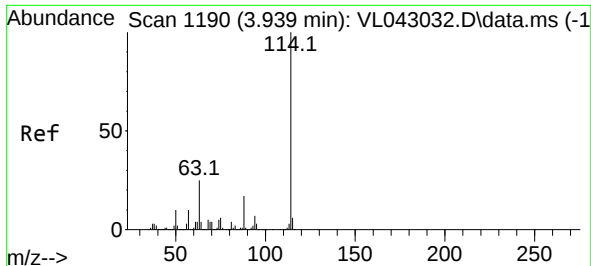
Tgt Ion: 57 Resp: 27696
Ion Ratio Lower Upper
57 100
41 106.5 76.1 114.1
43 78.3 201.4 302.0#
56 68.5 44.0 66.0#



#29
Chloroform
Concen: 0.049 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.000 min
Lab File: VL043097.D
Acq: 09 Oct 2025 20:39

Tgt Ion: 83 Resp: 2003
Ion Ratio Lower Upper
83 100
85 62.7 52.0 78.0

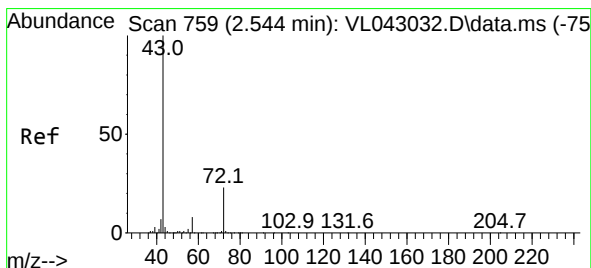
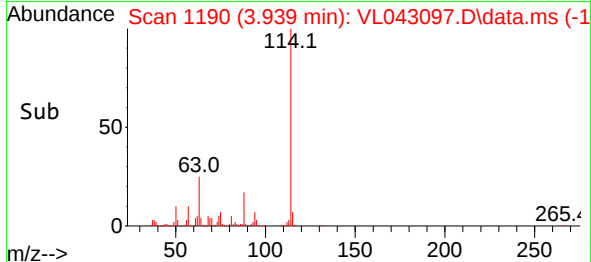
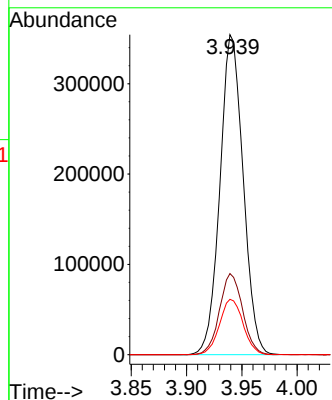
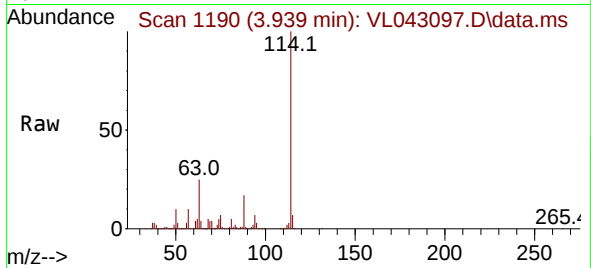




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.939 min Scan# 1190
 Delta R.T. 0.000 min
 Lab File: VL043097.D
 Acq: 09 Oct 2025 20:39

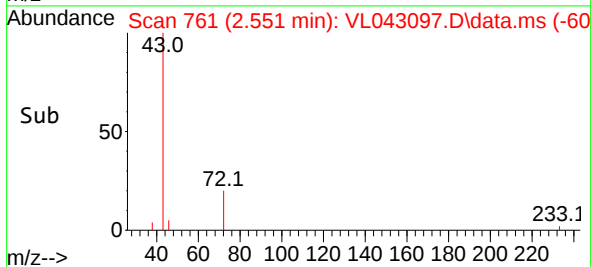
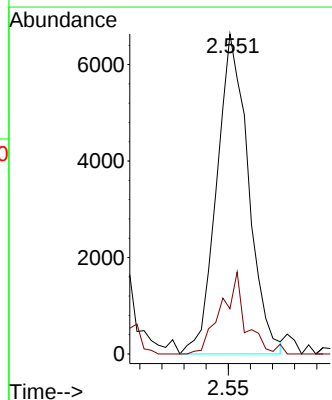
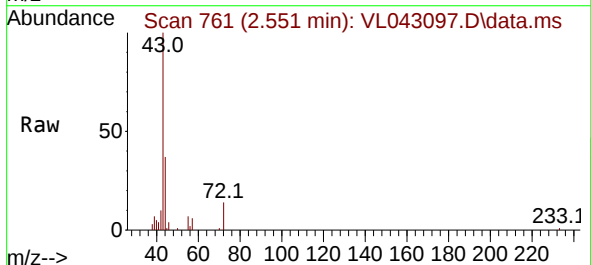
Instrument :
 MSVOA_L
 ClientSampleId :
 SV6

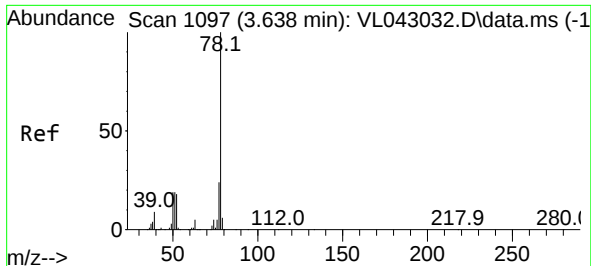
Tgt Ion:114 Resp: 516837
 Ion Ratio Lower Upper
 114 100
 63 25.3 19.4 29.2
 88 17.6 13.9 20.9



#34
 2-Butanone
 Concen: 0.188 ppbv
 RT: 2.551 min Scan# 761
 Delta R.T. 0.007 min
 Lab File: VL043097.D
 Acq: 09 Oct 2025 20:39

Tgt Ion: 43 Resp: 6599
 Ion Ratio Lower Upper
 43 100
 72 20.1 18.4 27.6

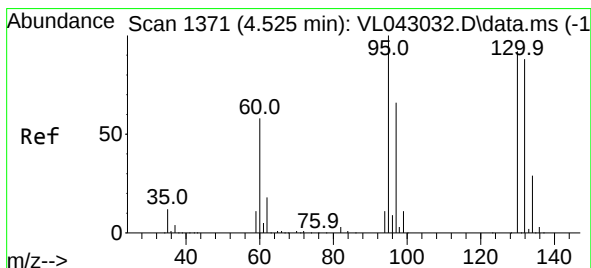
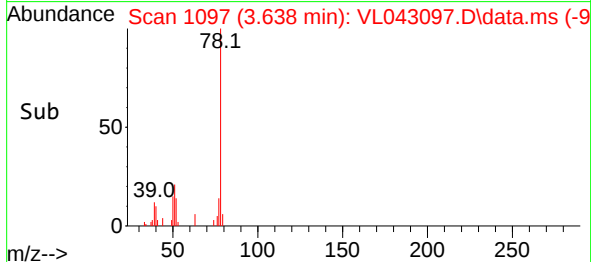
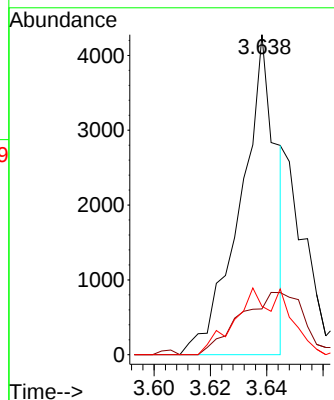
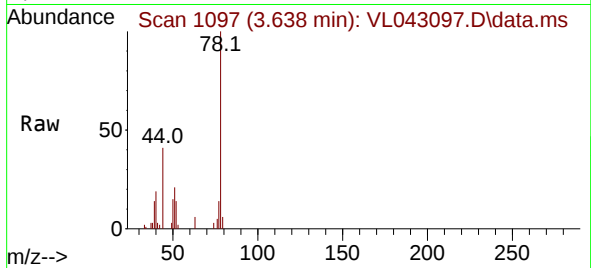




#36
Benzene
Concen: 0.076 ppbv
RT: 3.638 min Scan# 1097
Delta R.T. 0.000 min
Lab File: VL043097.D
Acq: 09 Oct 2025 20:39

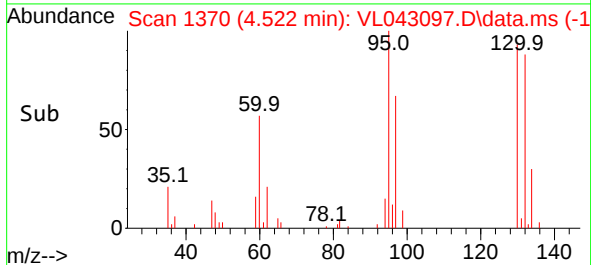
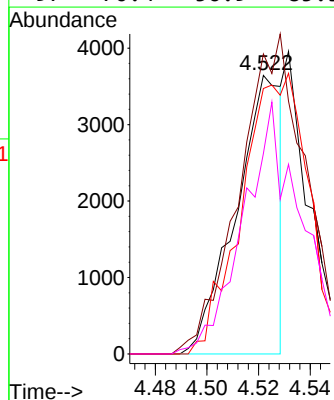
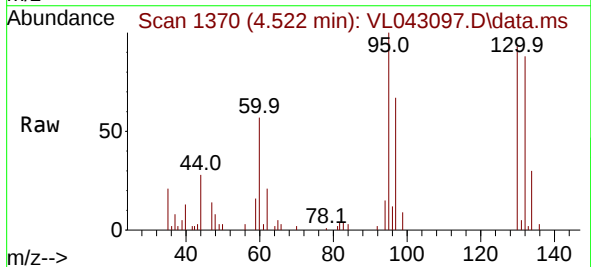
Instrument :
MSVOA_L
ClientSampleId :
SV6

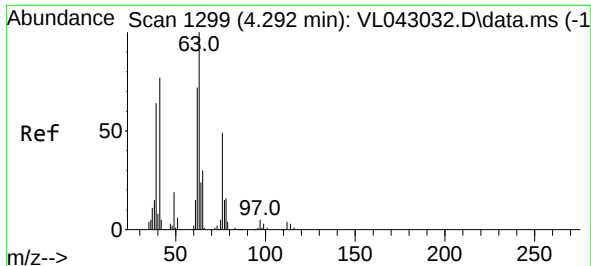
Tgt Ion: 78 Resp: 3761
Ion Ratio Lower Upper
78 100
77 14.3 19.2 28.8#
50 15.1 14.9 22.3



#38
Trichloroethene
Concen: 0.215 ppbv
RT: 4.522 min Scan# 1370
Delta R.T. -0.003 min
Lab File: VL043097.D
Acq: 09 Oct 2025 20:39

Tgt Ion:130 Resp: 4425
Ion Ratio Lower Upper
130 100
95 105.4 86.4 129.6
132 95.3 75.7 113.5
97 70.4 56.9 85.3





#39

1,2-Dichloropropane

Concen: 7.119 ppbv

RT: 3.939 min Scan# 1190

Delta R.T. -0.353 min

Lab File: VL043097.D

Acq: 09 Oct 2025 20:39

Instrument :

MSVOA_L

ClientSampleId :

SV6

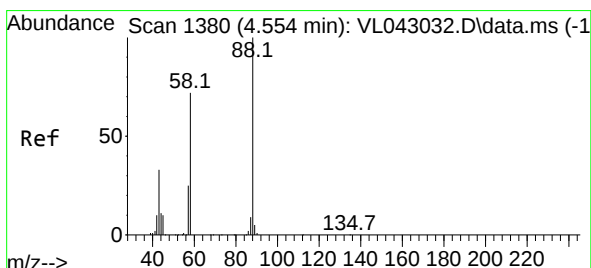
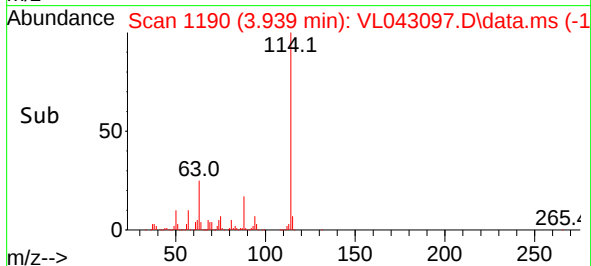
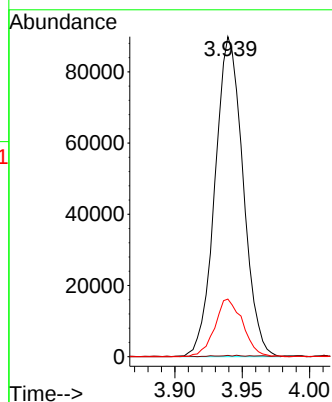
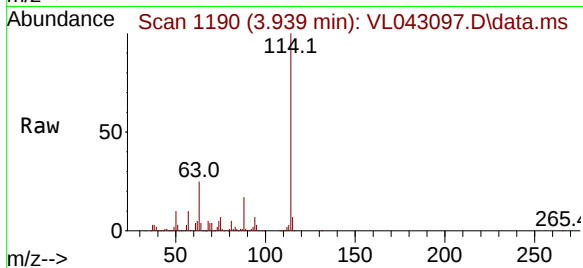
Tgt Ion: 63 Resp: 130300

Ion Ratio Lower Upper

63 100

41 0.3 61.6 92.4#

62 18.0 58.1 87.1#



#40

1,4-Dioxane

Concen: 0.032 ppbv

RT: 4.583 min Scan# 1389

Delta R.T. 0.029 min

Lab File: VL043097.D

Acq: 09 Oct 2025 20:39

Tgt Ion: 88 Resp: 253

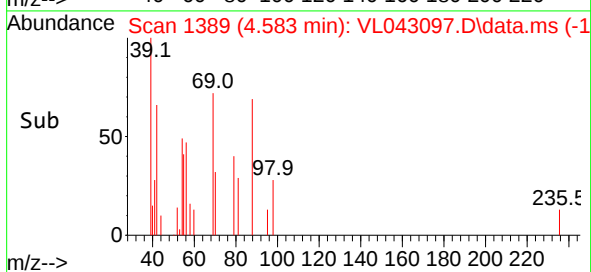
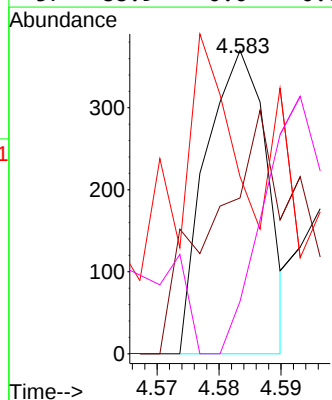
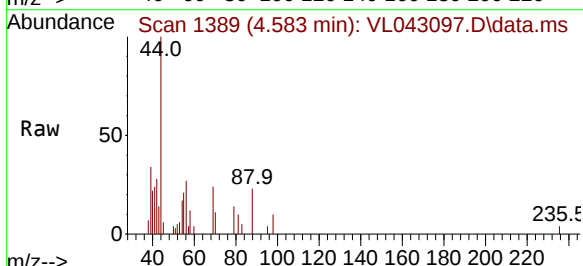
Ion Ratio Lower Upper

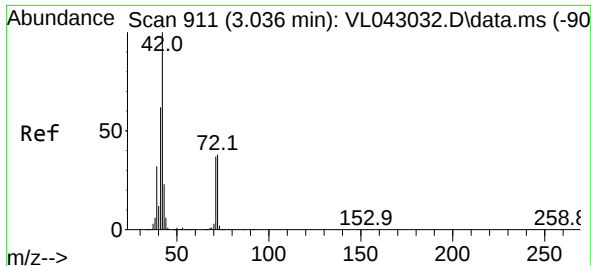
88 100

58 191.7 56.2 84.2#

43 395.7 25.7 38.5#

57 88.9 0.0 0.0#





#41

Tetrahydrofuran

Concen: 0.091 ppbv

RT: 3.049 min Scan# 911

Delta R.T. 0.013 min

Lab File: VL043097.D

Acq: 09 Oct 2025 20:39

Instrument :

MSVOA_L

ClientSampleId :

SV6

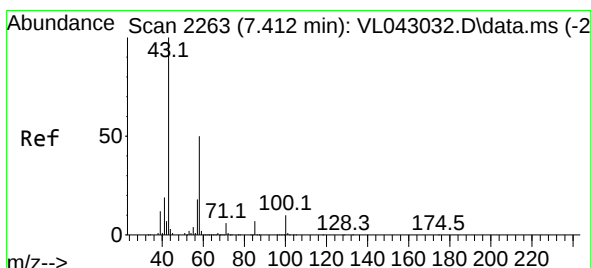
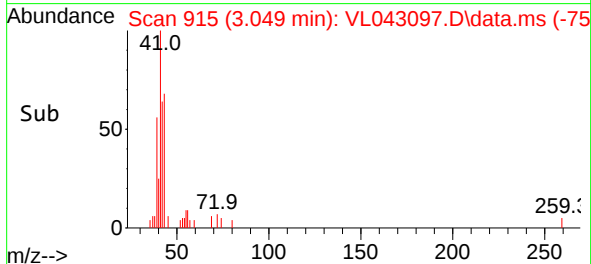
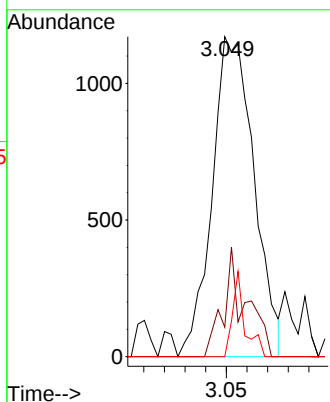
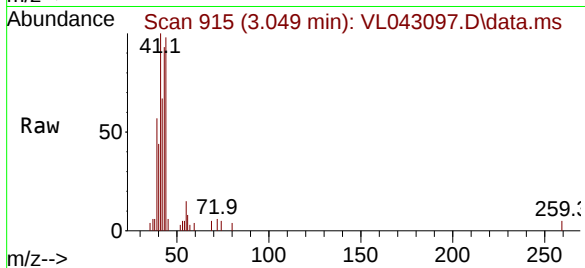
Tgt Ion: 42 Resp: 1646

Ion Ratio Lower Upper

42 100

72 18.5 31.0 46.6#

71 7.8 29.8 44.6#



#51

2-Hexanone

Concen: 0.101 ppbv

RT: 7.354 min Scan# 2245

Delta R.T. -0.058 min

Lab File: VL043097.D

Acq: 09 Oct 2025 20:39

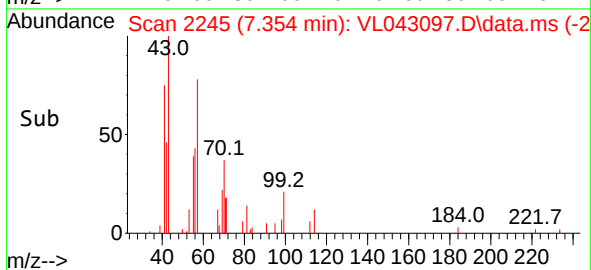
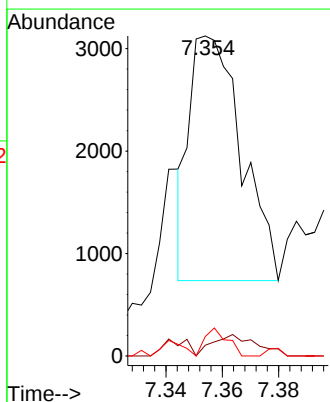
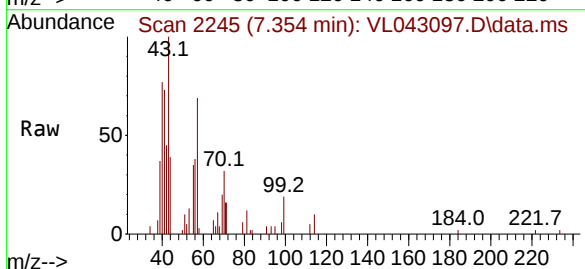
Tgt Ion: 43 Resp: 3068

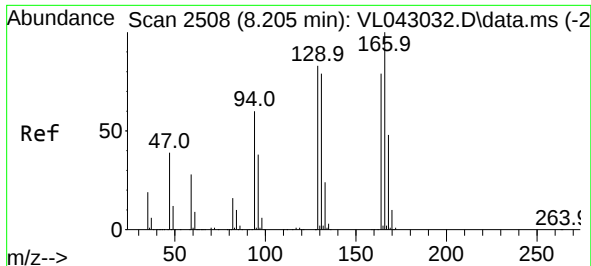
Ion Ratio Lower Upper

43 100

58 10.4 39.1 58.7#

98 5.8 0.5 0.7#

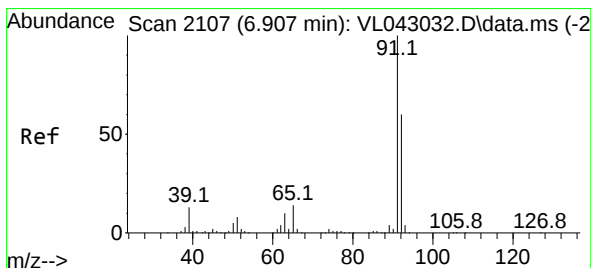
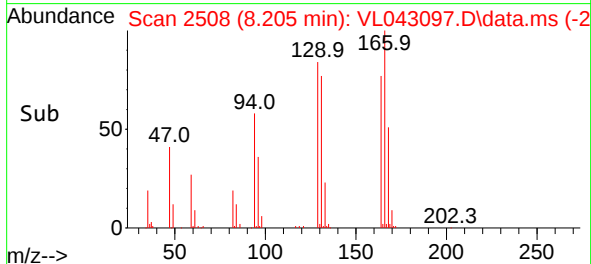
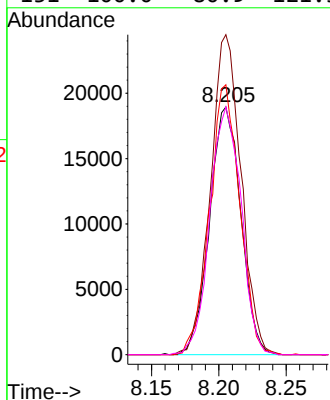
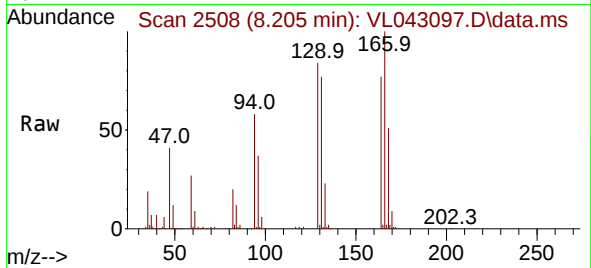




#52
Tetrachloroethene
Concen: 1.674 ppbv
RT: 8.205 min Scan# 2107
Delta R.T. 0.000 min
Lab File: VL043097.D
Acq: 09 Oct 2025 20:39

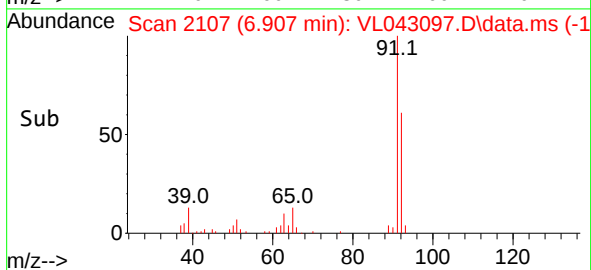
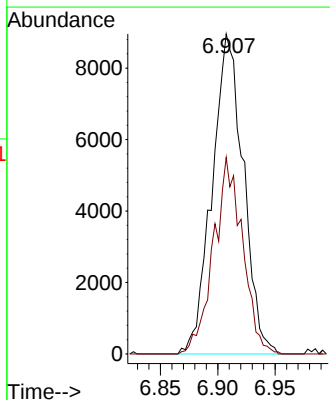
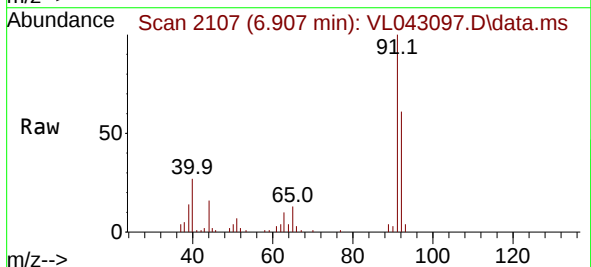
Instrument :
MSVOA_L
ClientSampleId :
SV6

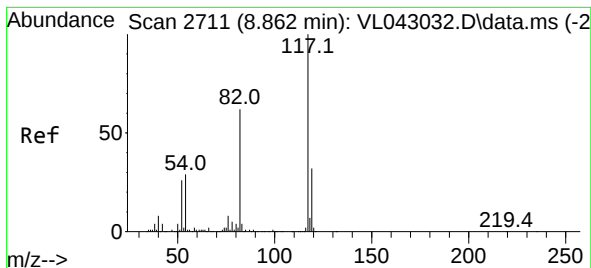
Tgt Ion:164 Resp: 30608
Ion Ratio Lower Upper
164 100
166 128.7 101.8 152.8
129 108.6 84.5 126.7
131 100.0 80.9 121.3



#53
Toluene
Concen: 0.340 ppbv
RT: 6.907 min Scan# 2107
Delta R.T. 0.000 min
Lab File: VL043097.D
Acq: 09 Oct 2025 20:39

Tgt Ion: 91 Resp: 16951
Ion Ratio Lower Upper
91 100
92 57.2 47.8 71.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.862 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL043097.D

Acq: 09 Oct 2025 20:39

Instrument :

MSVOA_L

ClientSampleId :

SV6

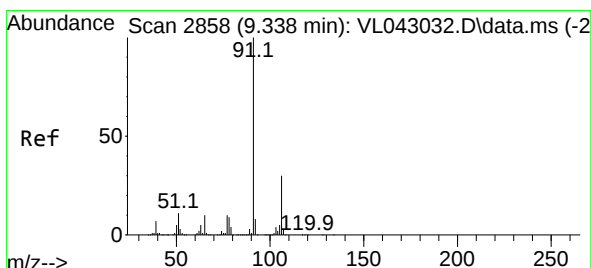
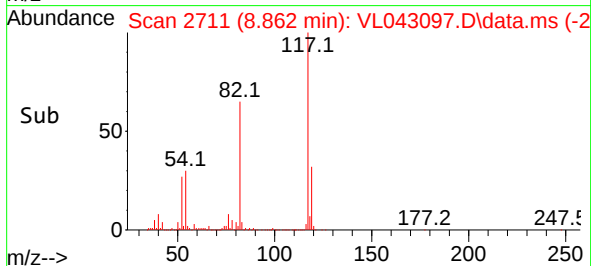
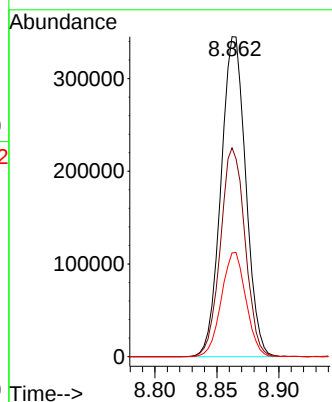
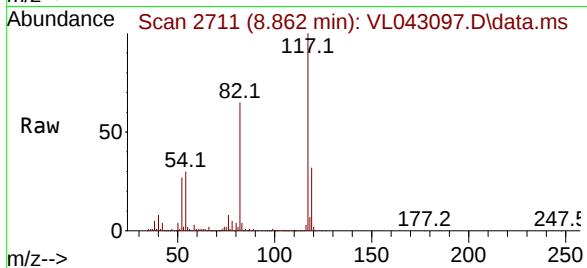
Tgt Ion:117 Resp: 480307

Ion Ratio Lower Upper

117 100

82 65.1 53.0 79.6

119 32.5 25.4 38.2



#58

Ethyl Benzene

Concen: 2.022 ppbv

RT: 9.338 min Scan# 2858

Delta R.T. 0.000 min

Lab File: VL043097.D

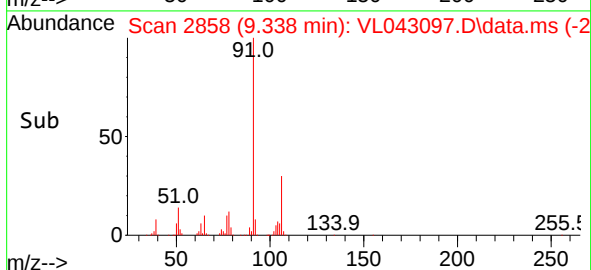
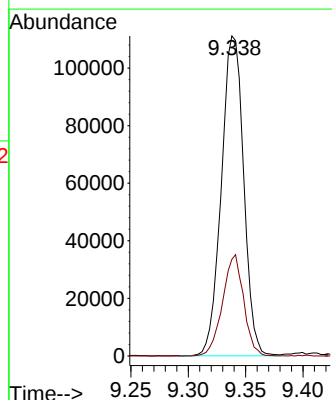
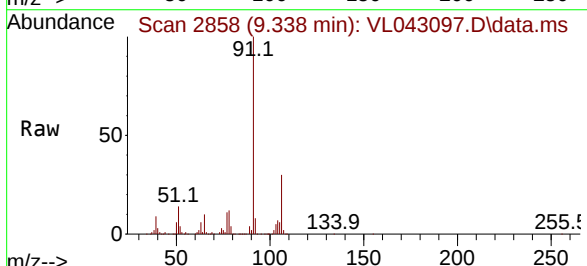
Acq: 09 Oct 2025 20:39

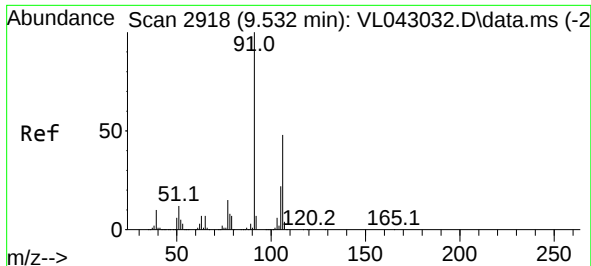
Tgt Ion: 91 Resp: 150455

Ion Ratio Lower Upper

91 100

106 30.2 24.1 36.1





#59

m/p-Xylene

Concen: 4.039 ppbv

RT: 9.516 min Scan# 2918

Delta R.T. -0.016 min

Lab File: VL043097.D

Acq: 09 Oct 2025 20:39

Instrument :

MSVOA_L

ClientSampleId :

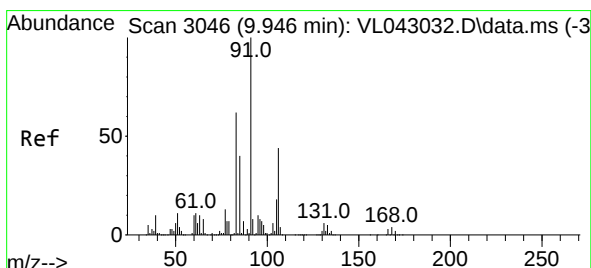
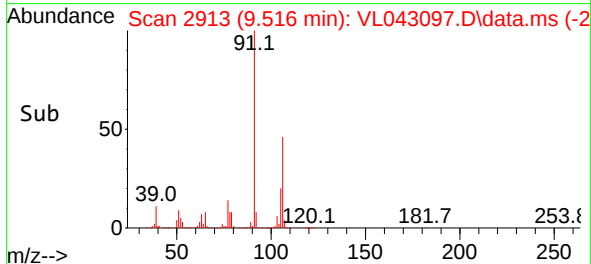
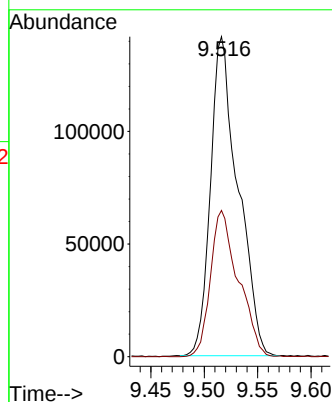
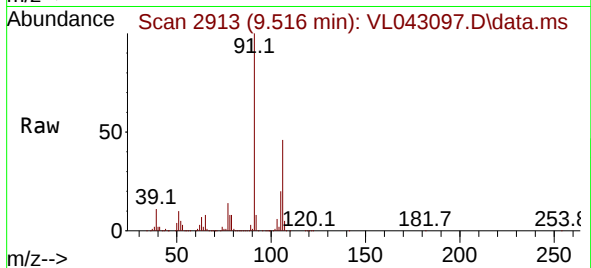
SV6

Tgt Ion: 91 Resp: 253469

Ion Ratio Lower Upper

91 100

106 46.7 37.5 56.3



#60

o-Xylene

Concen: 0.766 ppbv

RT: 9.950 min Scan# 3047

Delta R.T. 0.003 min

Lab File: VL043097.D

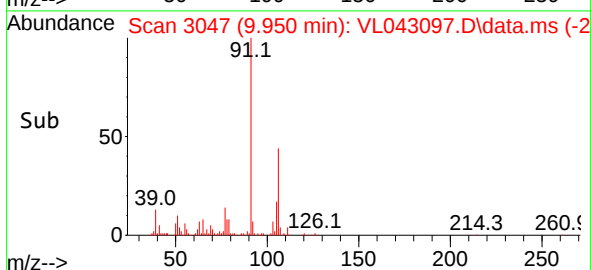
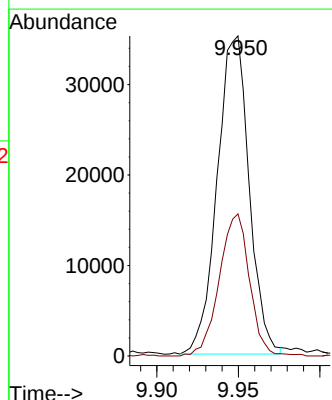
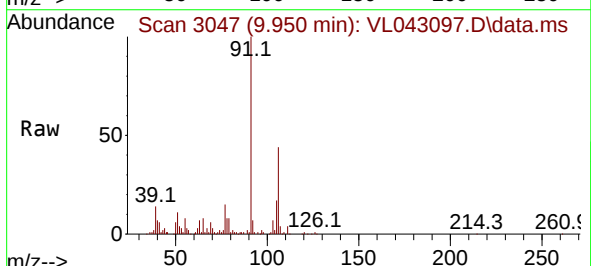
Acq: 09 Oct 2025 20:39

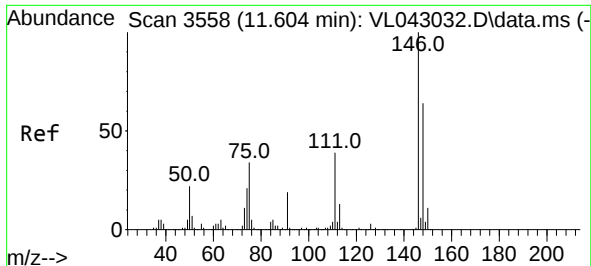
Tgt Ion: 91 Resp: 47876

Ion Ratio Lower Upper

91 100

106 42.5 21.9 65.5

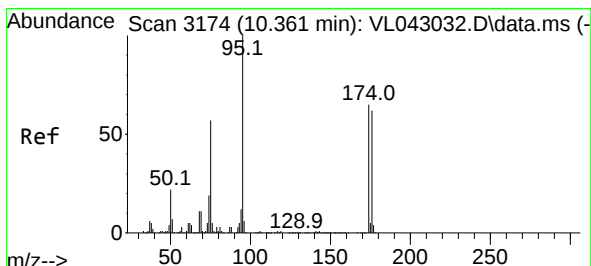
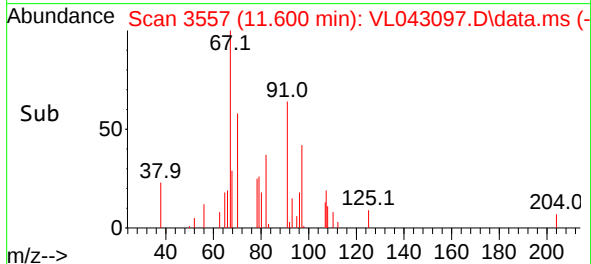
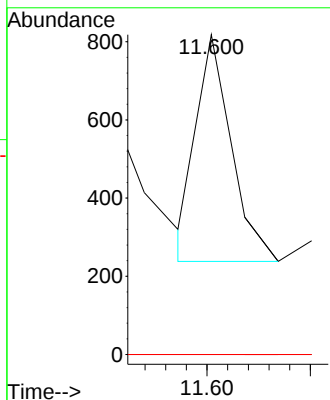
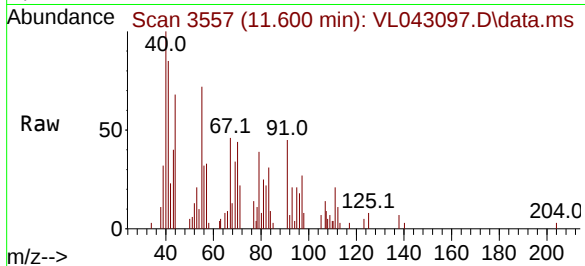




#66
Benzyl Chloride
Concen: 0.041 ppbv
RT: 11.600 min Scan# 3155
Delta R.T. -0.003 min
Lab File: VL043097.D
Acq: 09 Oct 2025 20:39

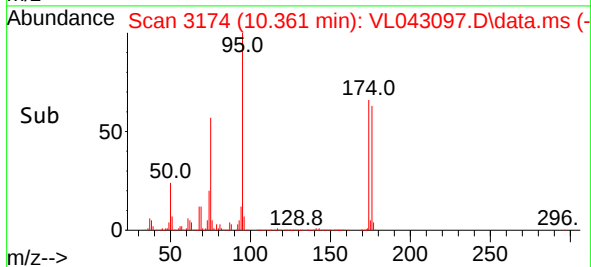
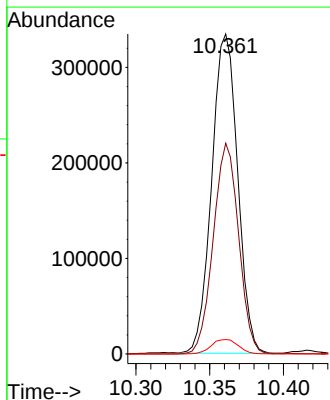
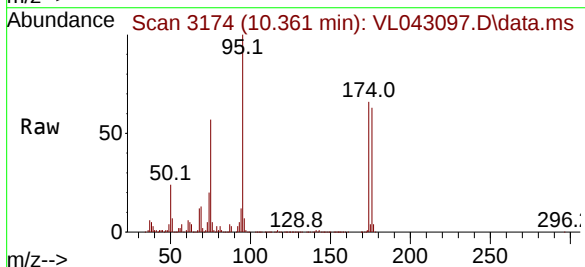
Instrument :
MSVOA_L
ClientSampleId :
SV6

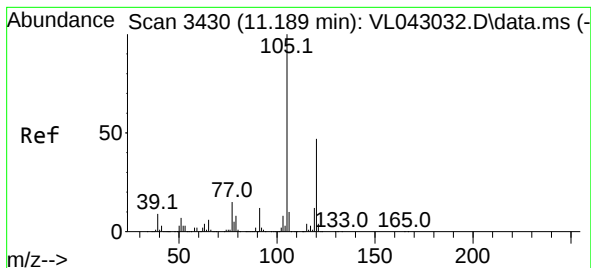
Tgt Ion: 91 Resp: 134
Ion Ratio Lower Upper
91 100
126 0.0 14.2 21.4#
128 0.0 4.8 7.2#



#68
1-Bromo-4-Fluorobenzene
Concen: 11.796 ppbv
RT: 10.361 min Scan# 3174
Delta R.T. 0.000 min
Lab File: VL043097.D
Acq: 09 Oct 2025 20:39

Tgt Ion: 95 Resp: 408138
Ion Ratio Lower Upper
95 100
174 64.8 52.3 78.5
175 4.8 3.8 5.8





#73

1,3,5-Trimethylbenzene

Concen: 0.032 ppbv

RT: 11.193 min Scan# 3431

Delta R.T. 0.003 min

Lab File: VL043097.D

Acq: 09 Oct 2025 20:39

Instrument :

MSVOA_L

ClientSampleId :

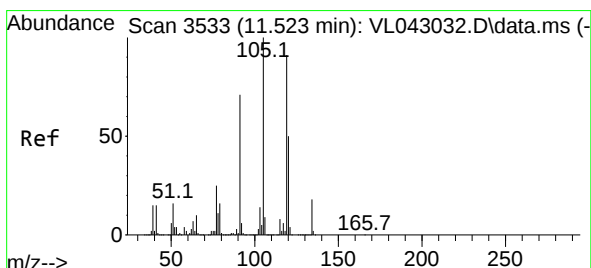
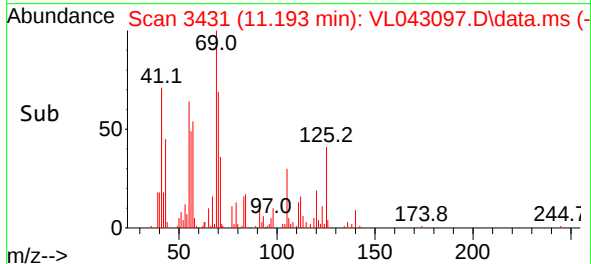
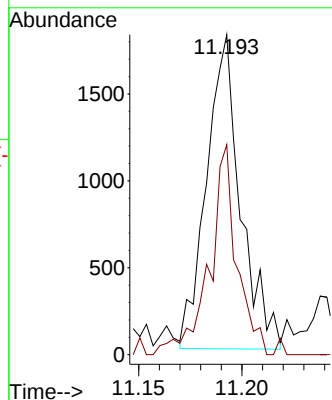
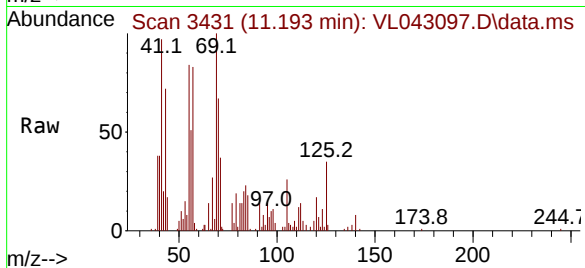
SV6

Tgt Ion:105 Resp: 2077

Ion Ratio Lower Upper

105 100

120 64.4 37.5 56.3#



#74

1,2,4-Trimethylbenzene

Concen: 0.054 ppbv

RT: 11.526 min Scan# 3534

Delta R.T. 0.003 min

Lab File: VL043097.D

Acq: 09 Oct 2025 20:39

Tgt Ion:105 Resp: 3924

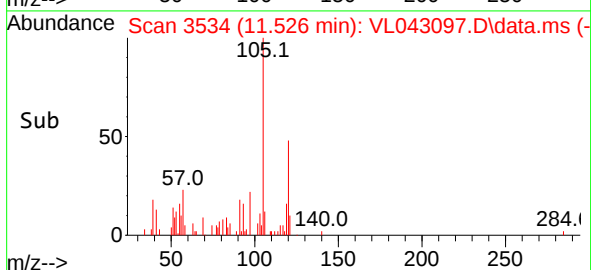
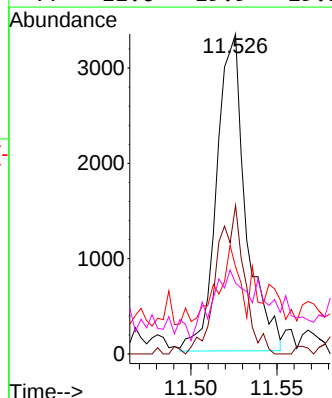
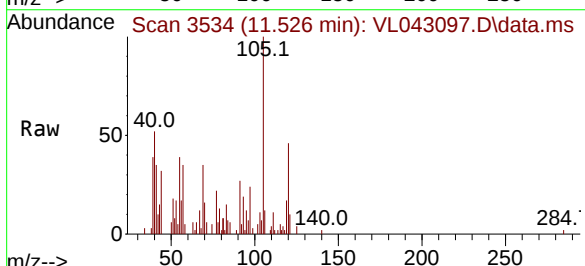
Ion Ratio Lower Upper

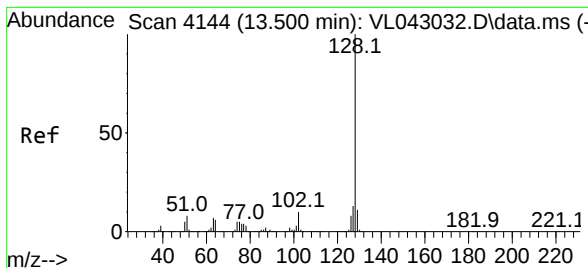
105 100

120 47.3 39.7 59.5

91 18.2 56.5 84.7#

77 11.6 19.9 29.9#





#79

Naphthalene

Concen: 0.242 ppbv

RT: 13.500 min Scan# 4144

Delta R.T. 0.000 min

Lab File: VL043097.D

Acq: 09 Oct 2025 20:39

Instrument :

MSVOA_L

ClientSampleId :

SV6

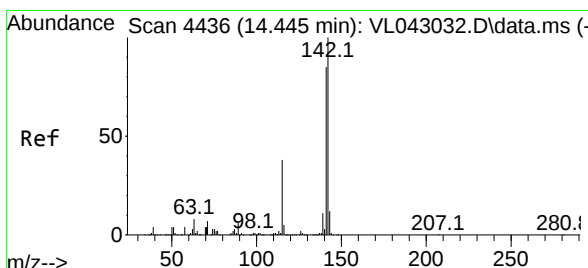
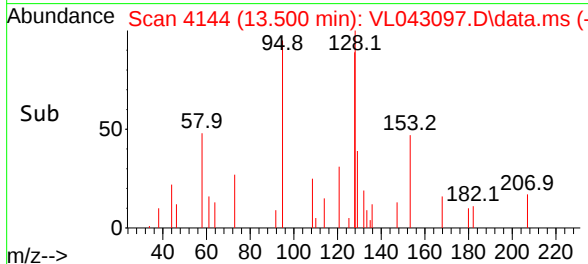
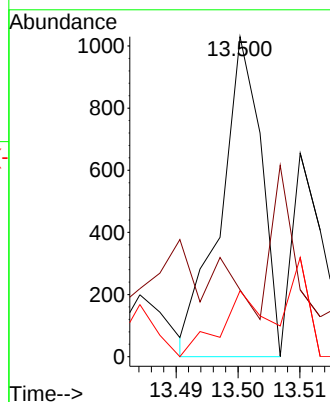
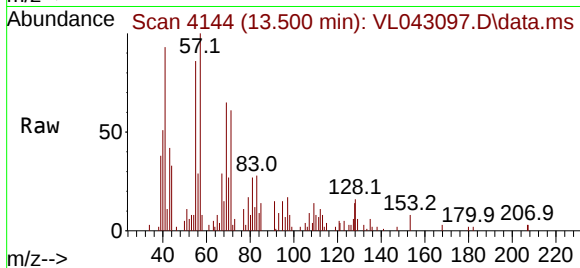
Tgt Ion:128 Resp: 469

Ion Ratio Lower Upper

128 100

127 31.5 10.6 16.0#

129 20.6 8.8 13.2#



#80

Naphthalene,2-methyl-

Concen: 0.690 ppbv

RT: 14.455 min Scan# 4439

Delta R.T. 0.010 min

Lab File: VL043097.D

Acq: 09 Oct 2025 20:39

Tgt Ion:142 Resp: 848

Ion Ratio Lower Upper

142 100

141 92.7 66.6 100.0

115 77.2 30.1 45.1#

