

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092425\
 Data File : VL043010.D
 Acq On : 24 Sep 2025 15:39
 Operator : SY/MD
 Sample : Q3154-01 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Sep 25 01:57:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	153782	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	473304	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	423014	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	317512	10.055	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.600%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.499	85	2629	0.127	ppbv	99
3) Chlorodifluoromethane	1.492	51	6337	0.246	ppbv #	76
4) Chloromethane	1.534	50	906	0.097	ppbv #	83
6) Bromomethane	1.670	94	127	0.043	ppbv #	73
7) Chloroethane	1.531	64	500	0.152	ppbv #	82
8) Dichlorotetrafluoroethane	1.528	85	822	0.047	ppbv #	23
9) Propene	1.560	41	37075	3.306	ppbv	89
10) Heptane	4.981	43	13082	0.437	ppbv	96
11) Trichlorofluoromethane	1.877	101	37652	1.888	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.143	101	4960	0.307	ppbv	87
13) Ethanol	1.722	45	8738	8.032	ppbv	99
15) Acetone	1.835	43	291560	14.556	ppbv	96
16) 1,3-Butadiene	1.602	39	5297	0.561	ppbv #	37
17) tert-Butyl alcohol	2.042	59	3191	0.145	ppbv #	72
19) Isopropyl Alcohol	1.903	45	13493	1.121	ppbv #	36
20) Methylene Chloride	2.062	84	2761	Below Cal	#	90
21) Allyl Chloride	2.042	41	1552	0.111	ppbv #	84
23) Vinyl Acetate	2.476	43	29277	1.023	ppbv #	44
24) 1,1-Dichloroethane	2.411	63	2049	0.123	ppbv #	86
25) Ethyl Acetate	2.826	43	49533	0.978	ppbv #	80
26) Hexane	2.826	57	71281	3.089	ppbv #	41
27) Carbon Disulfide	2.152	76	49869	2.410	ppbv #	85
28) Methyl tert-Butyl Ether	2.437	73	538	0.045	ppbv #	49
29) Chloroform	2.848	83	9515	0.315	ppbv	95
30) Cyclohexane	3.858	84	26849	1.392	ppbv	96
32) 1,1,1-Trichloroethane	3.369	97	66252	2.033	ppbv	98
34) 2-Butanone	2.560	43	26819	0.809	ppbv	96
35) Carbon Tetrachloride	3.369	117	7842	0.254	ppbv	99
36) Benzene	3.658	78	85986	1.935	ppbv	98
38) Trichloroethene	4.551	130	292517	13.243	ppbv	98
39) 1,2-Dichloropropane	3.955	63	111561	6.876	ppbv #	24
41) Tetrahydrofuran	3.068	42	725	0.038	ppbv #	87
51) 2-Hexanone	7.428	43	8959	0.253	ppbv #	28
52) Tetrachloroethene	8.228	164	223431	12.992	ppbv	96
53) Toluene	6.936	91	67271	1.279	ppbv	100
57) Chlorobenzene	8.985	112	18697	0.484	ppbv #	37
58) Ethyl Benzene	9.360	91	7912	0.114	ppbv	94
59) m/p-Xylene	9.532	91	20709	0.378	ppbv #	100
60) o-Xylene	9.963	91	16797	0.307	ppbv	93
61) Styrene	9.875	104	1140	0.044	ppbv #	39
62) Isopropylbenzene	10.542	105	3431	0.042	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.950	83	3017	0.105	ppbv #	41
71) 2-Chlorotoluene	10.992	91	5308	0.086	ppbv	89

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SV1

Quant Time: Sep 25 01:57:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

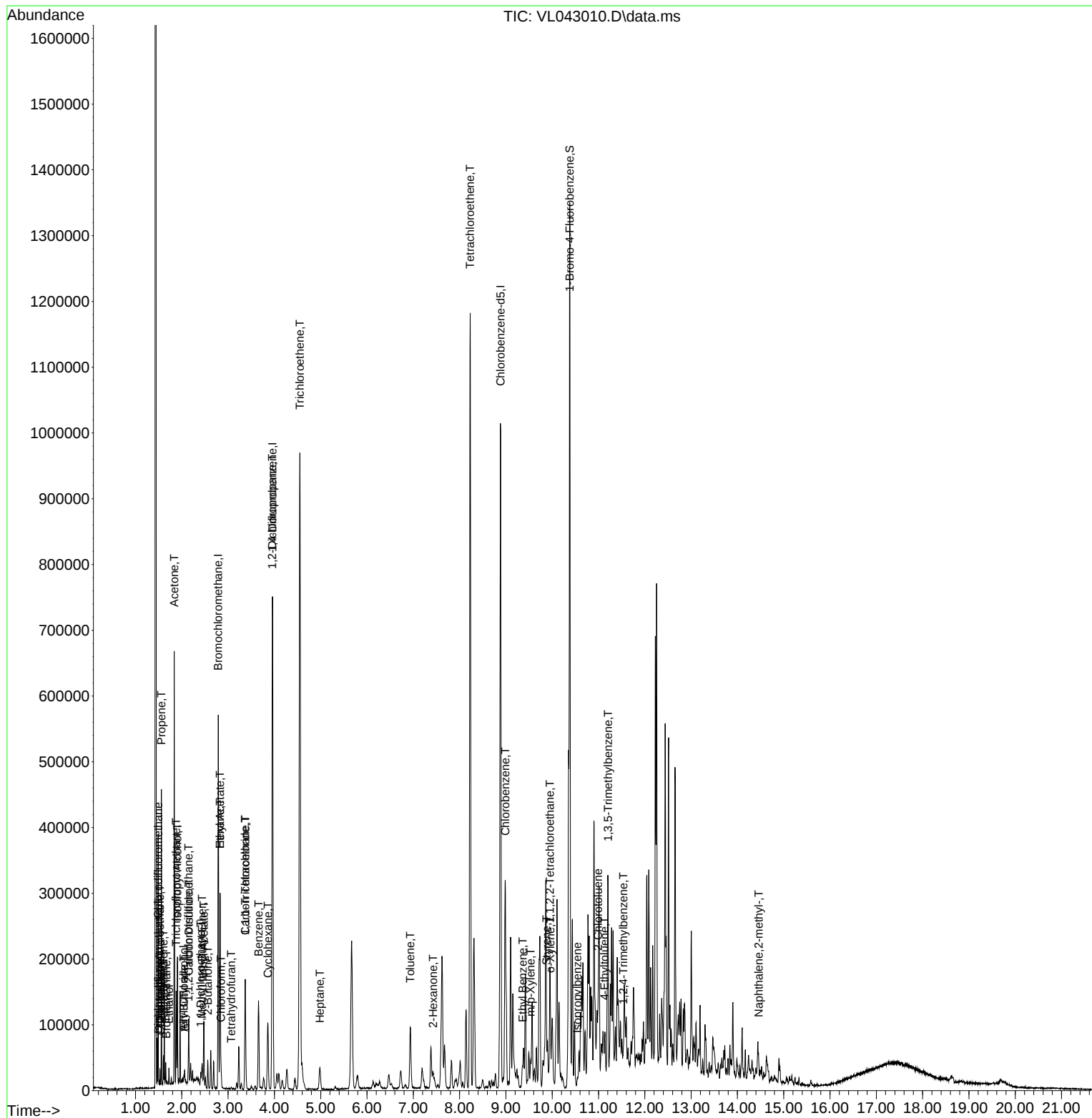
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 4-Ethyltoluene	11.128	105	2683	0.039	ppbv #	46
73) 1,3,5-Trimethylbenzene	11.205	105	6786	0.122	ppbv #	84
74) 1,2,4-Trimethylbenzene	11.536	105	11191	0.182	ppbv #	65
80) Naphthalene,2-methyl-	14.461	142	4135	0.247	ppbv #	63

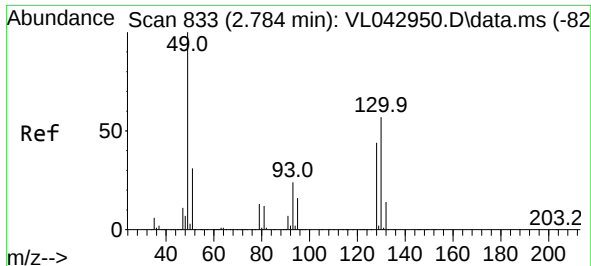
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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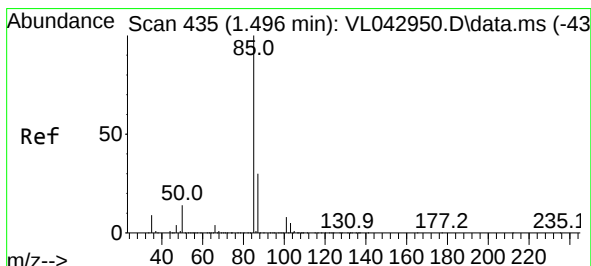
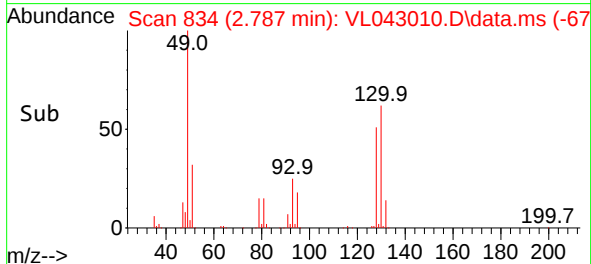
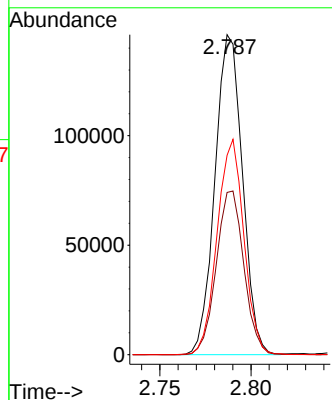
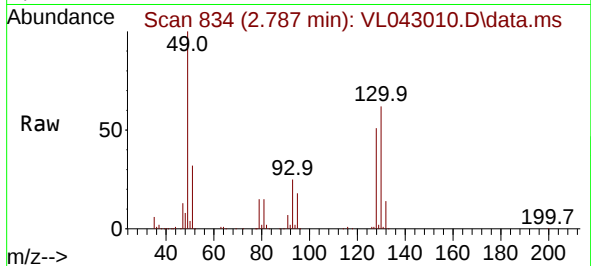




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 834
 Delta R.T. 0.003 min
 Lab File: VL043010.D
 Acq: 24 Sep 2025 15:39

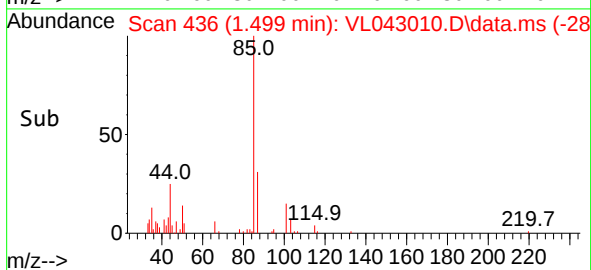
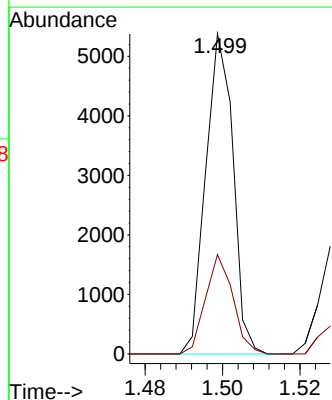
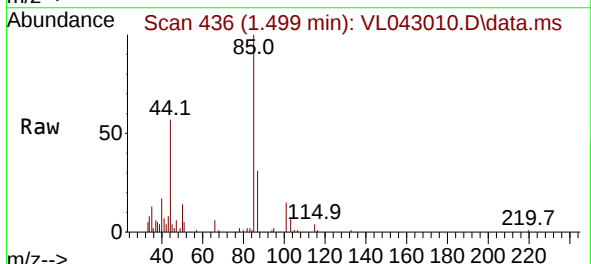
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

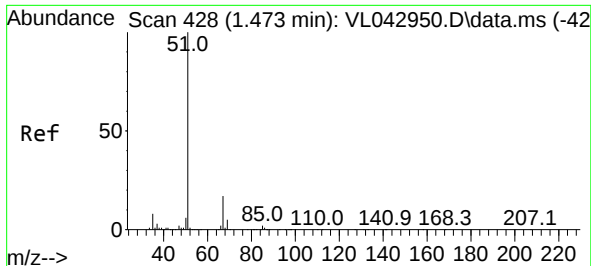
Tgt Ion: 49 Resp: 153782
 Ion Ratio Lower Upper
 49 100
 128 51.2 22.9 68.8
 130 65.3 29.1 87.3



#2
 Dichlorodifluoromethane
 Concen: 0.127 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.003 min
 Lab File: VL043010.D
 Acq: 24 Sep 2025 15:39

Tgt Ion: 85 Resp: 2629
 Ion Ratio Lower Upper
 85 100
 87 31.0 24.3 36.5

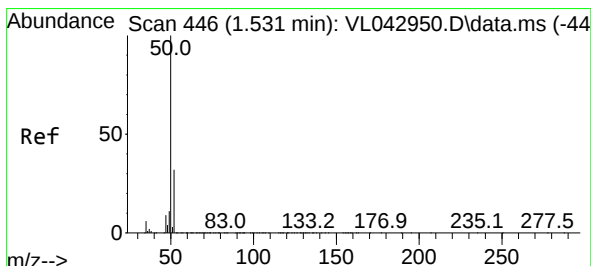
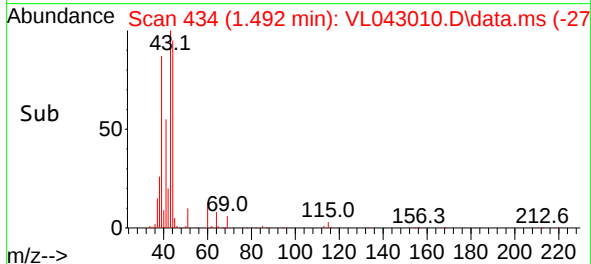
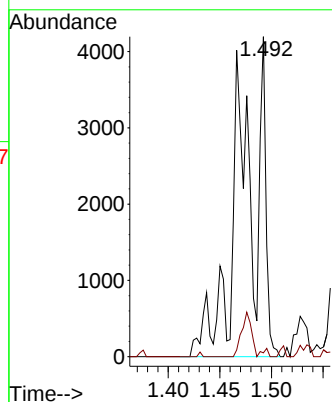
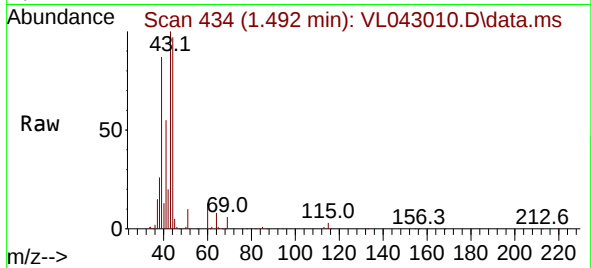




#3
 Chlorodifluoromethane
 Concen: 0.246 ppbv
 RT: 1.492 min Scan# 41
 Delta R.T. 0.019 min
 Lab File: VL043010.D
 Acq: 24 Sep 2025 15:39

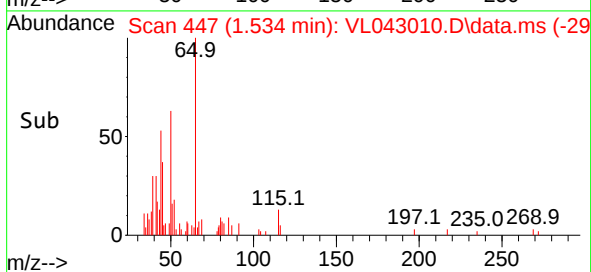
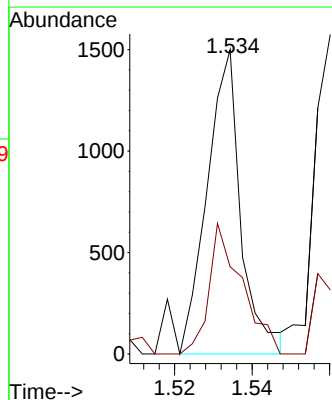
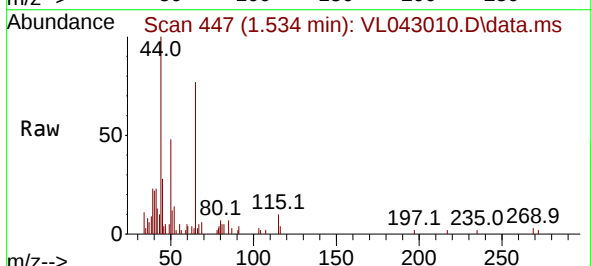
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

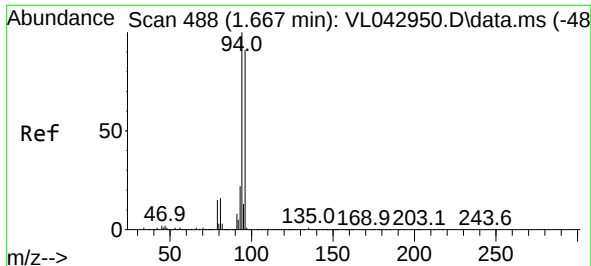
Tgt Ion: 51 Resp: 6337
 Ion Ratio Lower Upper
 51 100
 67 6.8 13.8 20.8#



#4
 Chloromethane
 Concen: 0.097 ppbv
 RT: 1.534 min Scan# 447
 Delta R.T. 0.003 min
 Lab File: VL043010.D
 Acq: 24 Sep 2025 15:39

Tgt Ion: 50 Resp: 906
 Ion Ratio Lower Upper
 50 100
 52 22.9 25.9 38.9#





#6

Bromomethane

Concen: 0.043 ppbv

RT: 1.670 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043010.D

Acq: 24 Sep 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

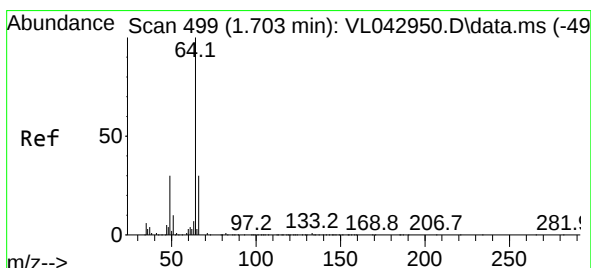
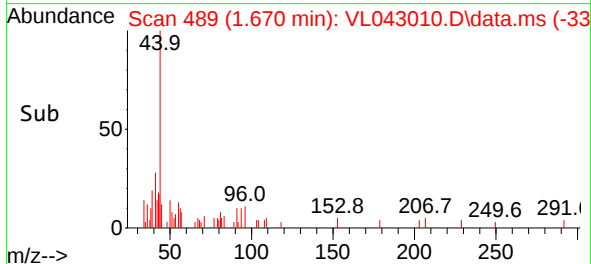
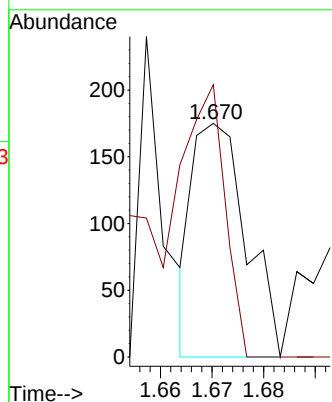
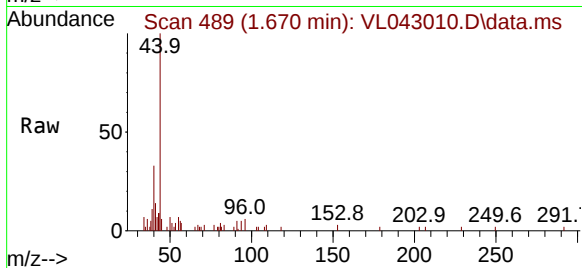
SV1

Tgt Ion: 94 Resp: 127

Ion Ratio Lower Upper

94 100

96 116.6 72.6 108.8#



#7

Chloroethane

Concen: 0.152 ppbv

RT: 1.531 min Scan# 446

Delta R.T. -0.172 min

Lab File: VL043010.D

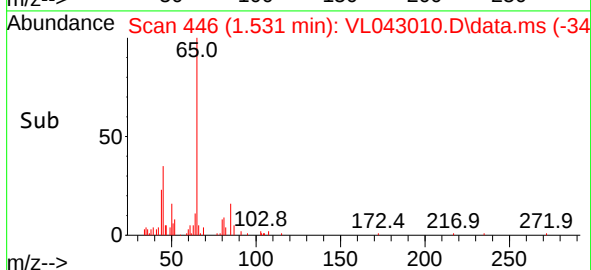
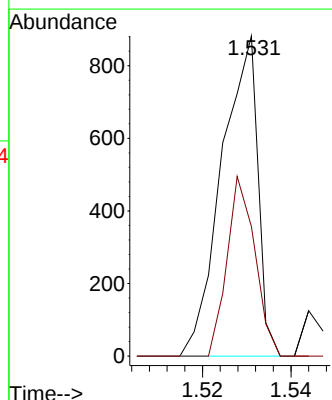
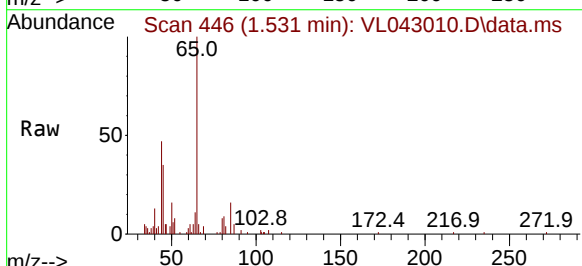
Acq: 24 Sep 2025 15:39

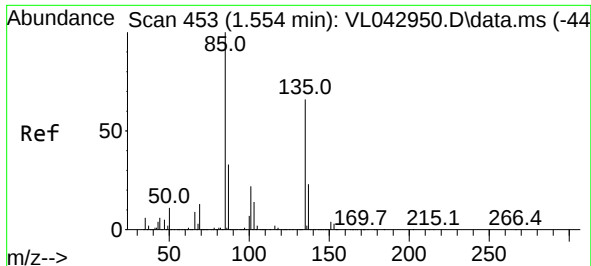
Tgt Ion: 64 Resp: 500

Ion Ratio Lower Upper

64 100

66 40.5 24.6 36.8#

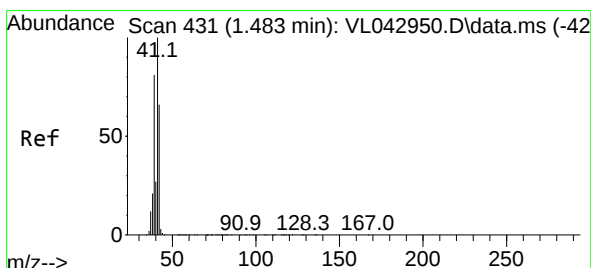
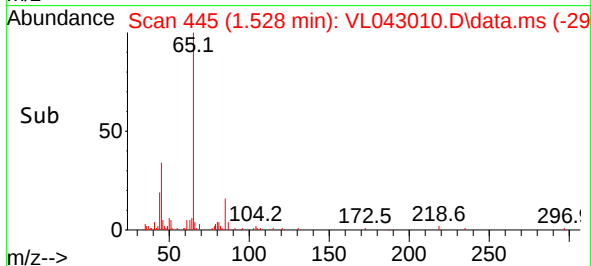
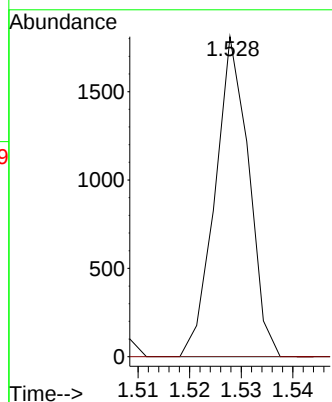
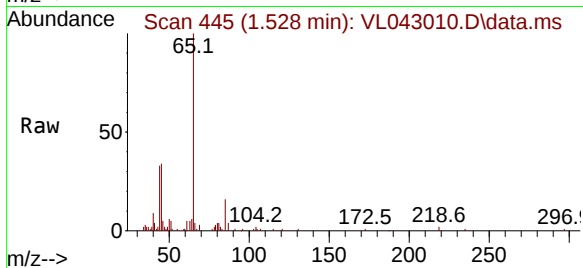




#8
 Dichlorotetrafluoroethane
 Concen: 0.047 ppbv
 RT: 1.528 min Scan# 445
 Delta R.T. -0.026 min
 Lab File: VL043010.D
 Acq: 24 Sep 2025 15:39

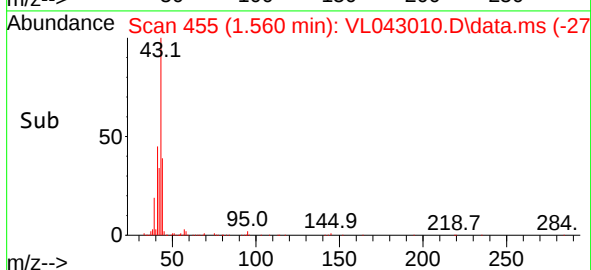
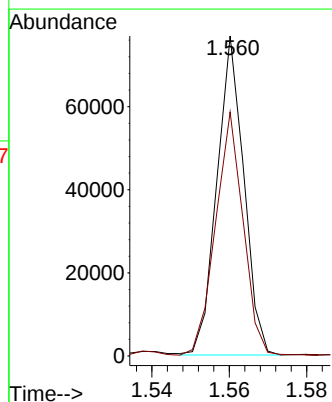
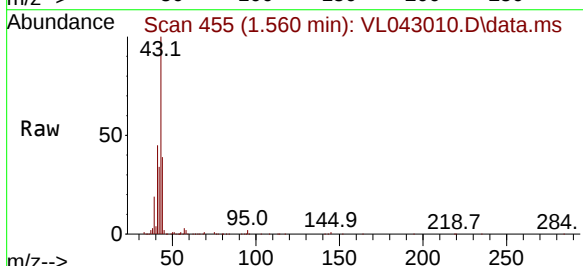
Instrument :
 MSVOA_L
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 SV1

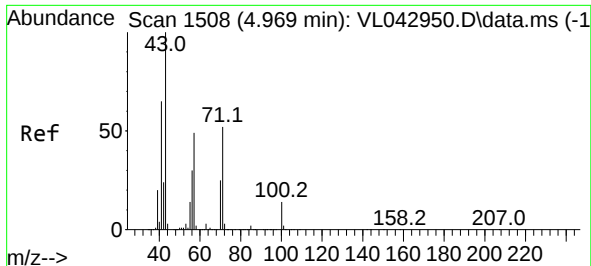
Tgt Ion: 85 Resp: 822
 Ion Ratio Lower Upper
 85 100
 135 2.7 49.7 74.5#



#9
 Propene
 Concen: 3.306 ppbv
 RT: 1.560 min Scan# 455
 Delta R.T. 0.077 min
 Lab File: VL043010.D
 Acq: 24 Sep 2025 15:39

Tgt Ion: 41 Resp: 37075
 Ion Ratio Lower Upper
 41 100
 42 80.7 57.4 86.2





#10

Heptane

Concen: 0.437 ppbv

RT: 4.981 min Scan# 1

Delta R.T. 0.013 min

Lab File: VL043010.D

Acq: 24 Sep 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

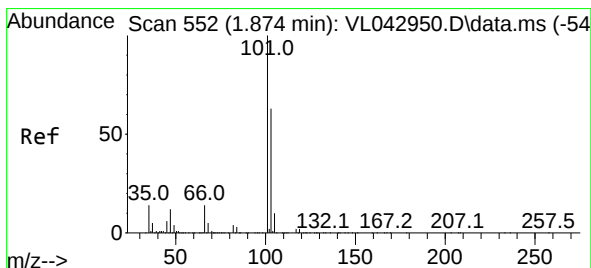
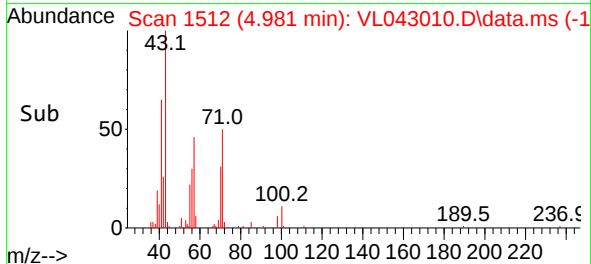
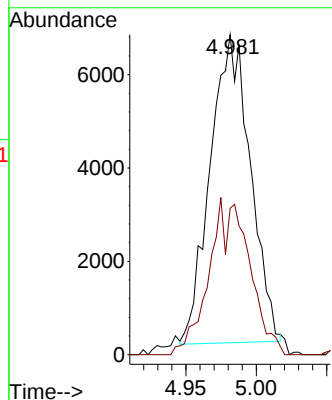
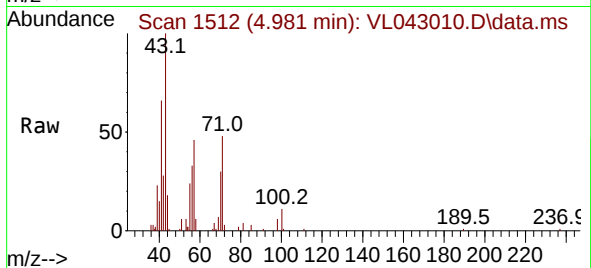
SV1

Tgt Ion: 43 Resp: 13082

Ion Ratio Lower Upper

43 100

57 51.0 38.6 57.8



#11

Trichlorofluoromethane

Concen: 1.888 ppbv

RT: 1.877 min Scan# 553

Delta R.T. 0.003 min

Lab File: VL043010.D

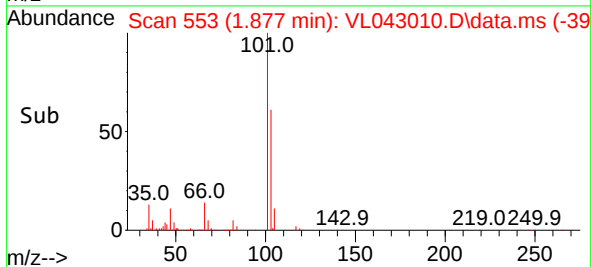
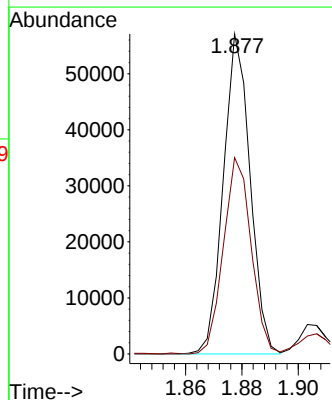
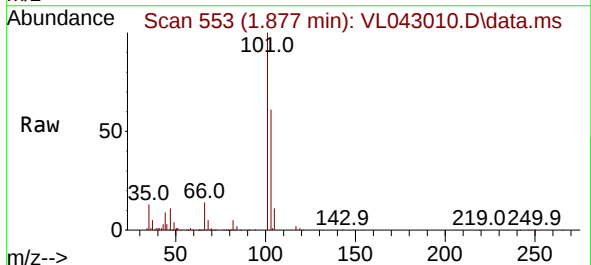
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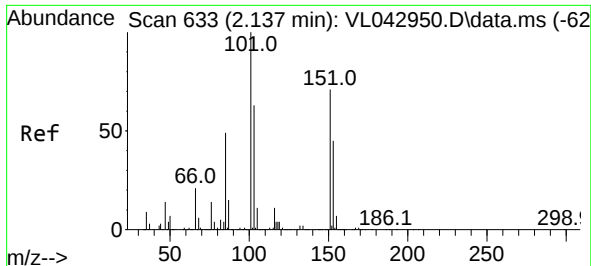
Tgt Ion:101 Resp: 37652

Ion Ratio Lower Upper

101 100

103 61.2 50.1 75.1

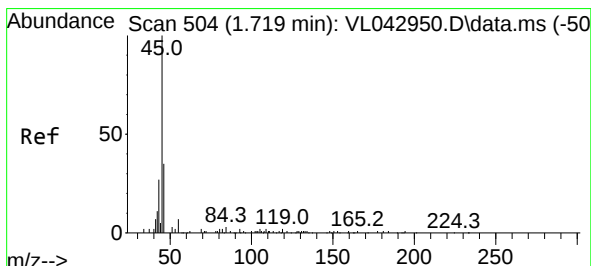
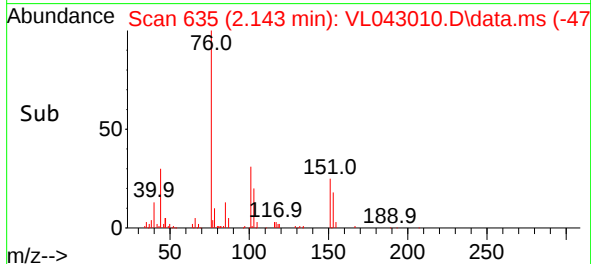
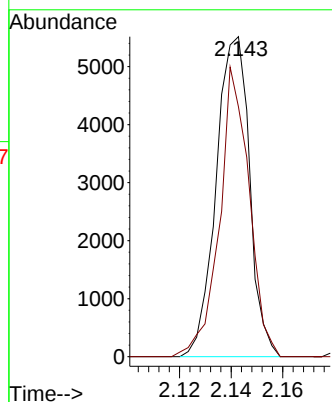
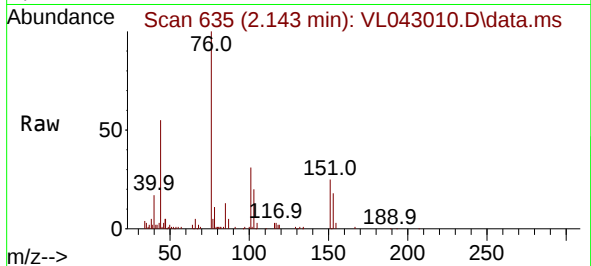




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.307 ppbv
 RT: 2.143 min Scan# 61
 Delta R.T. 0.006 min
 Lab File: VL043010.D
 Acq: 24 Sep 2025 15:39

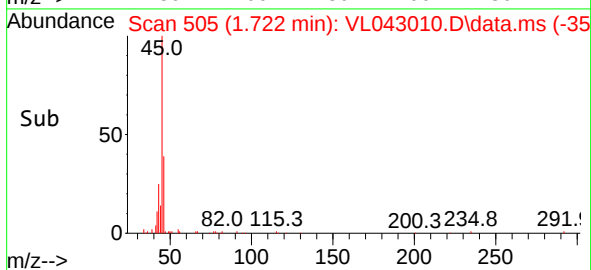
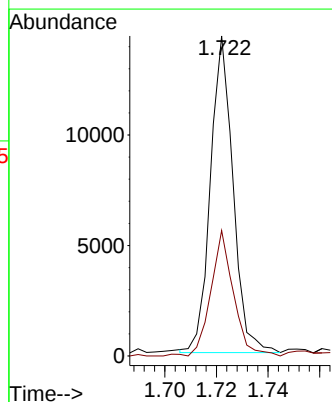
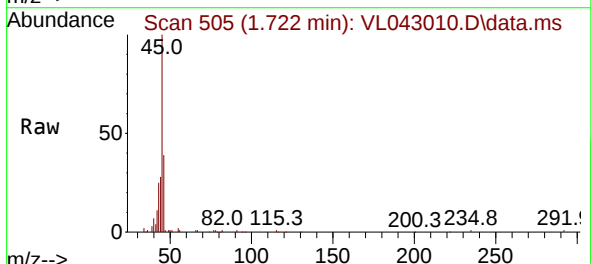
Instrument :
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 ClientSampleId :
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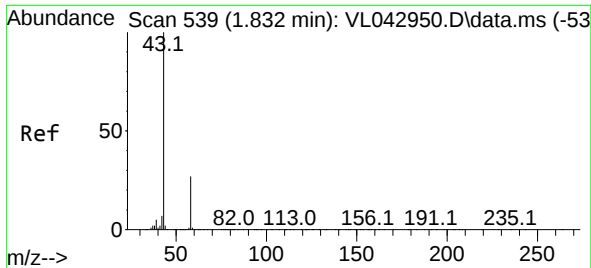
Tgt Ion:101 Resp: 4960
 Ion Ratio Lower Upper
 101 100
 151 80.2 55.7 83.5



#13
 Ethanol
 Concen: 8.032 ppbv
 RT: 1.722 min Scan# 505
 Delta R.T. 0.003 min
 Lab File: VL043010.D
 Acq: 24 Sep 2025 15:39

Tgt Ion: 45 Resp: 8738
 Ion Ratio Lower Upper
 45 100
 46 39.6 16.2 64.6





#15

Acetone

Concen: 14.556 ppbv

RT: 1.835 min Scan# 54

Delta R.T. 0.003 min

Lab File: VL043010.D

Acq: 24 Sep 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

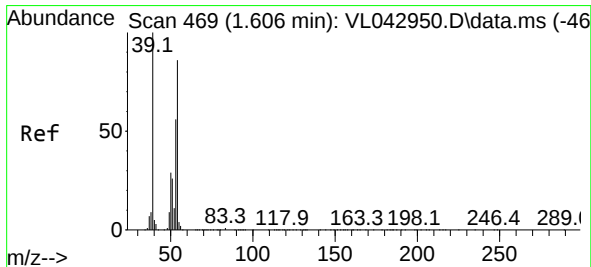
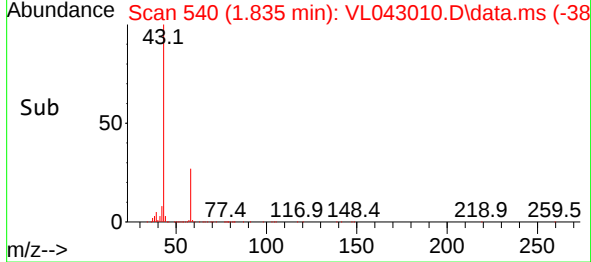
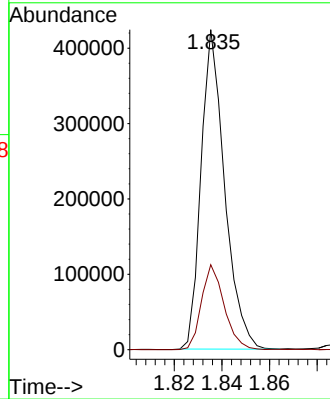
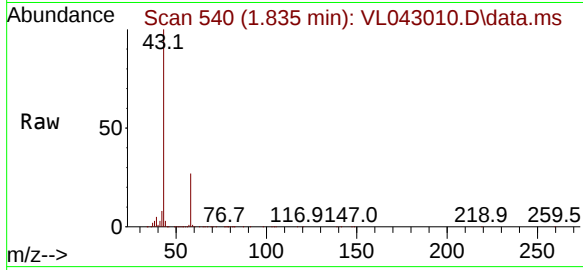
SV1

Tgt Ion: 43 Resp: 291560

Ion Ratio Lower Upper

43 100

58 25.6 22.3 33.5



#16

1,3-Butadiene

Concen: 0.561 ppbv

RT: 1.602 min Scan# 468

Delta R.T. -0.003 min

Lab File: VL043010.D

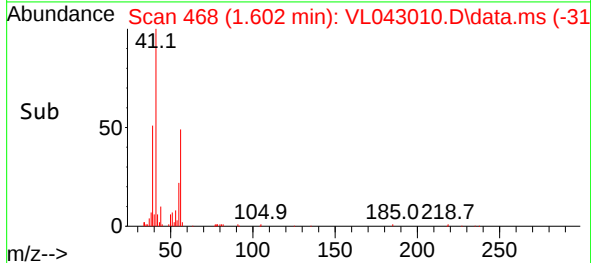
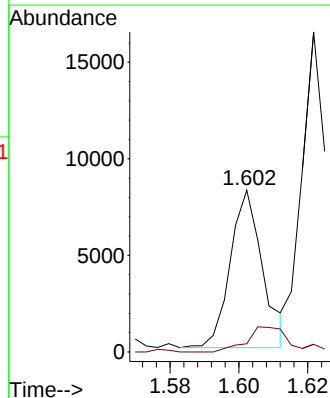
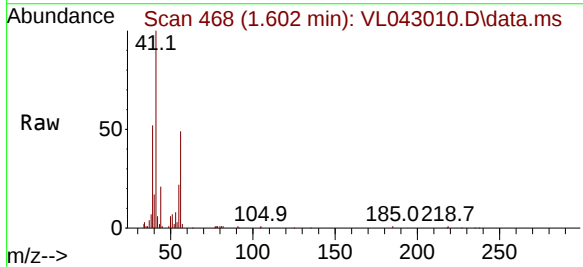
Acq: 24 Sep 2025 15:39

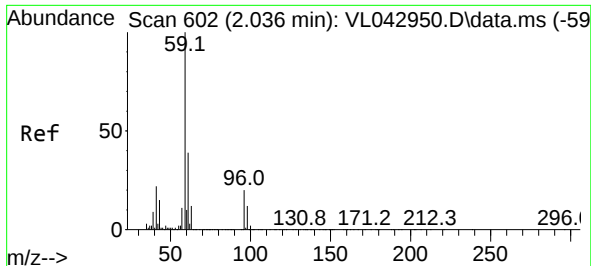
Tgt Ion: 39 Resp: 5297

Ion Ratio Lower Upper

39 100

54 22.3 60.8 91.2#





#17

tert-Butyl alcohol

Concen: 0.145 ppbv

RT: 2.042 min Scan# 60

Delta R.T. 0.006 min

Lab File: VL043010.D

Acq: 24 Sep 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

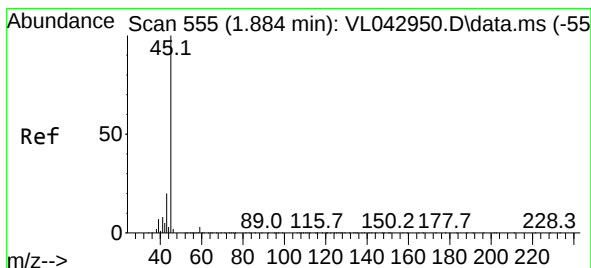
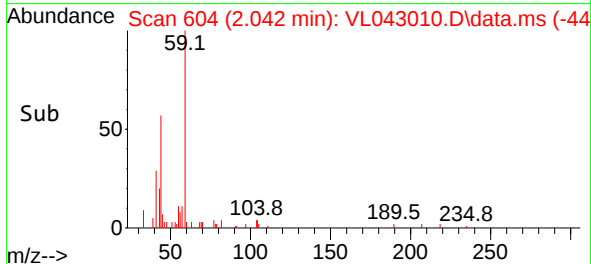
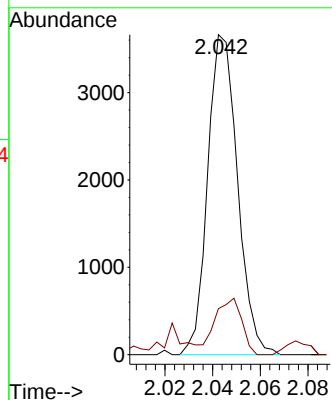
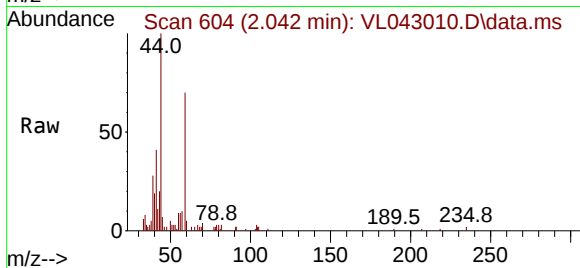
SV1

Tgt Ion: 59 Resp: 3191

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



#19

Isopropyl Alcohol

Concen: 1.121 ppbv

RT: 1.903 min Scan# 561

Delta R.T. 0.019 min

Lab File: VL043010.D

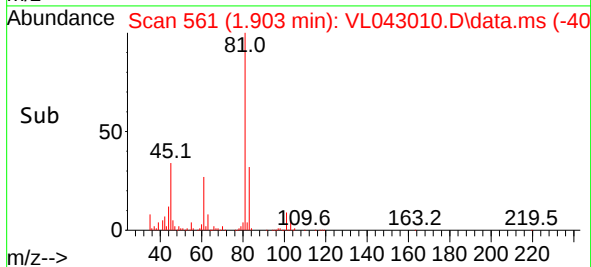
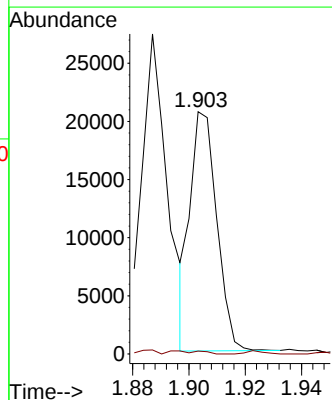
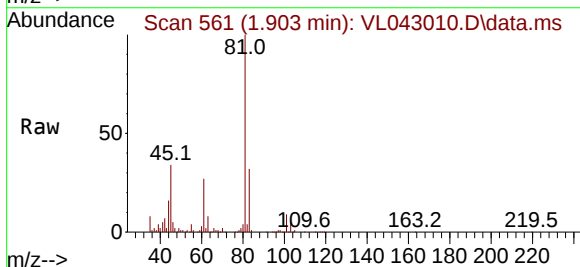
Acq: 24 Sep 2025 15:39

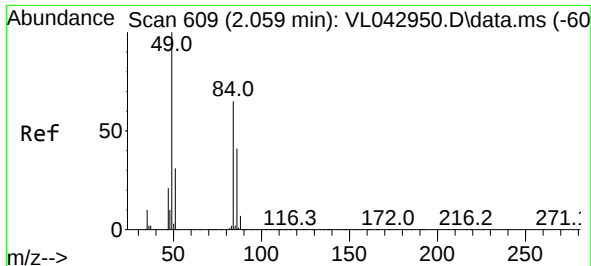
Tgt Ion: 45 Resp: 13493

Ion Ratio Lower Upper

45 100

58 0.0 31.0 46.6#

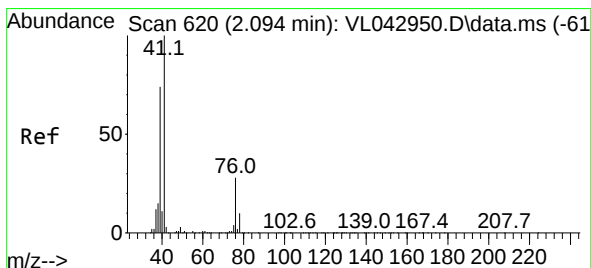
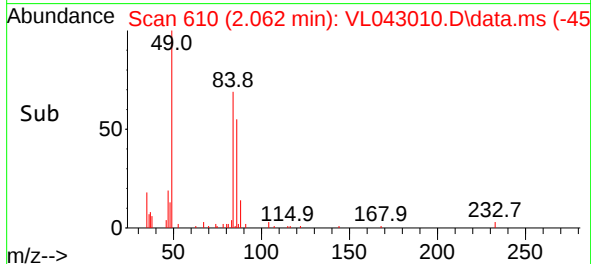
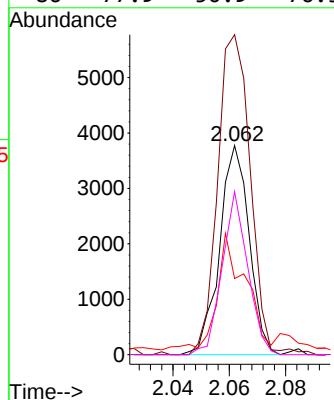
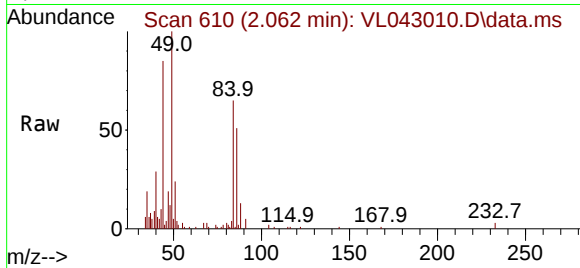




#20
Methylene Chloride
Concen: Below Cal
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

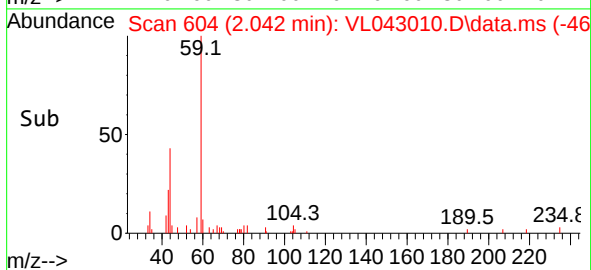
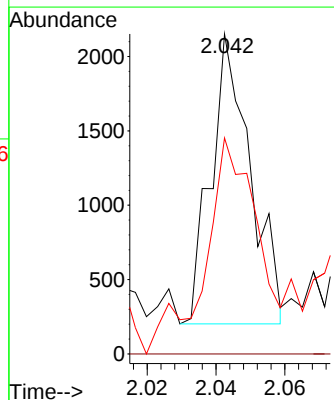
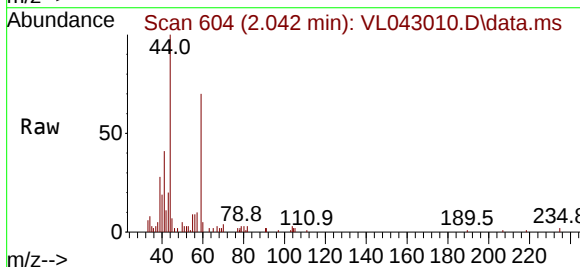
Instrument :
MSVOA_L
ClientSampleId :
SV1

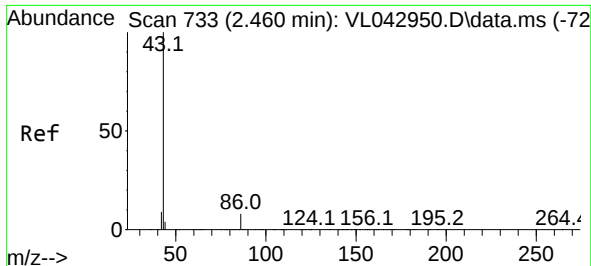
Tgt Ion: 84 Resp: 2761
Ion Ratio Lower Upper
84 100
49 153.0 124.1 186.1
51 32.5 39.8 59.8#
86 77.9 50.9 76.3#



#21
Allyl Chloride
Concen: 0.111 ppbv
RT: 2.042 min Scan# 604
Delta R.T. -0.052 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Tgt Ion: 41 Resp: 1552
Ion Ratio Lower Upper
41 100
76 0.0 22.3 33.5#
39 74.8 61.3 91.9

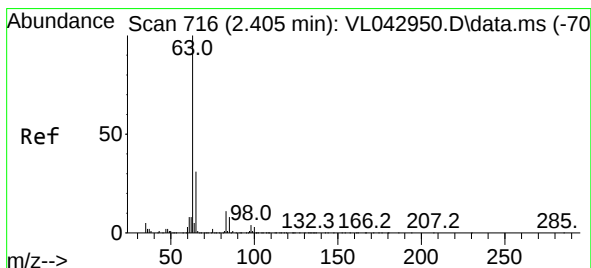
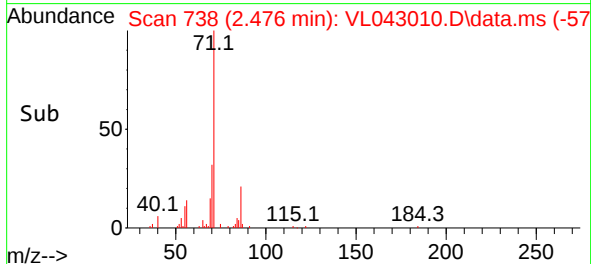
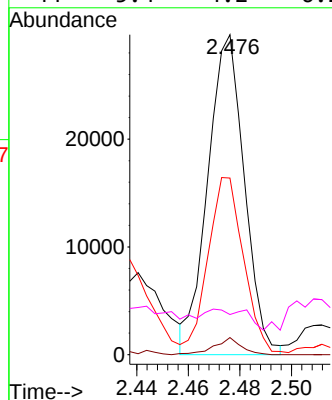
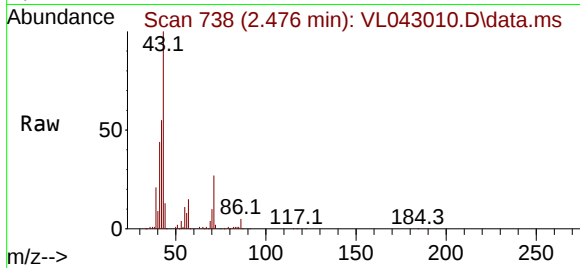




#23
 Vinyl Acetate
 Concen: 1.023 ppbv
 RT: 2.476 min Scan# 718
 Delta R.T. 0.016 min
 Lab File: VL043010.D
 Acq: 24 Sep 2025 15:39

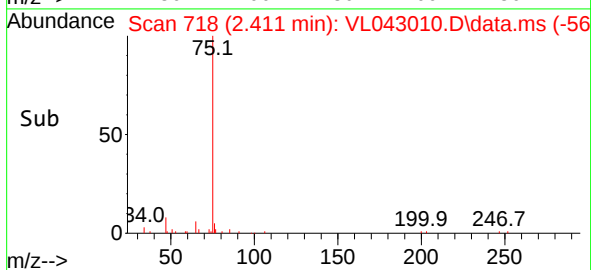
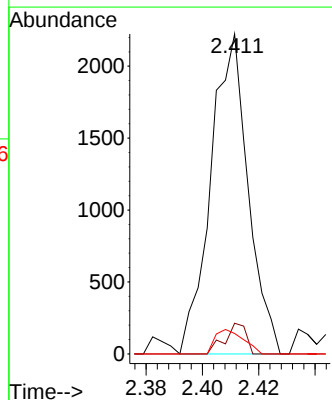
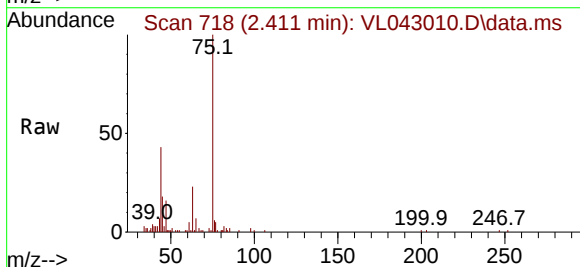
Instrument :
 MSVOA_1
 ClientSampleId :
 SV1

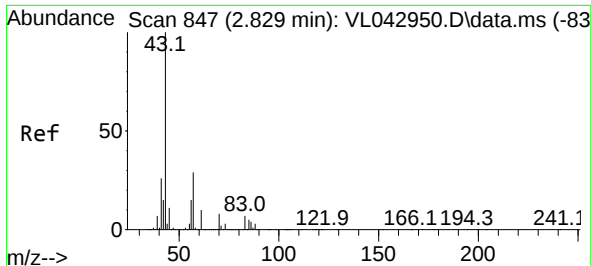
Tgt Ion:	43	Resp:	29277
Ion	Ratio	Lower	Upper
43	100		
86	5.5	6.2	9.2#
42	55.8	7.4	11.0#
44	5.4	4.2	6.2



#24
 1,1-Dichloroethane
 Concen: 0.123 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. 0.006 min
 Lab File: VL043010.D
 Acq: 24 Sep 2025 15:39

Tgt Ion:	63	Resp:	2049
Ion	Ratio	Lower	Upper
63	100		
98	9.6	2.2	6.6#
100	6.4	1.4	4.0#

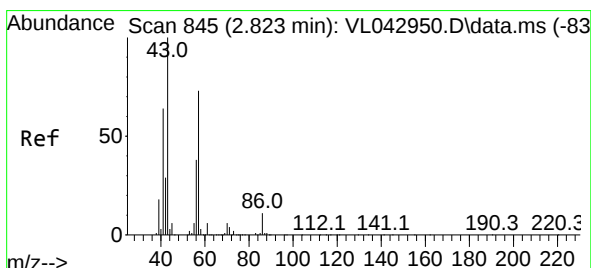
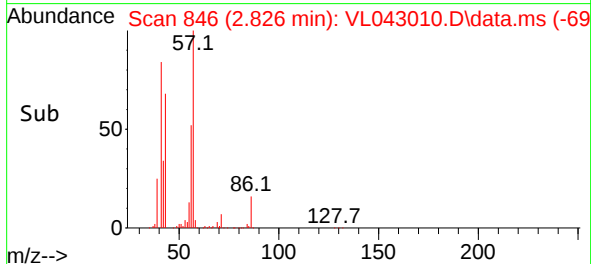
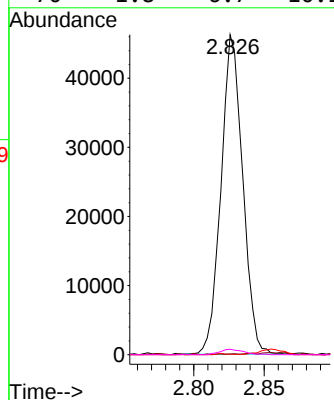
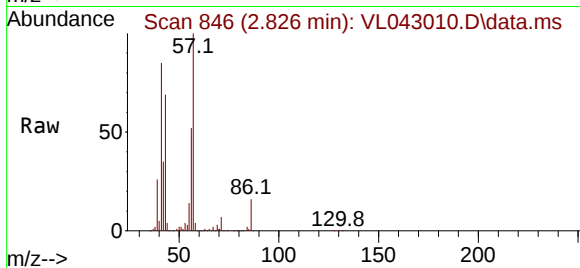




#25
Ethyl Acetate
Concen: 0.978 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

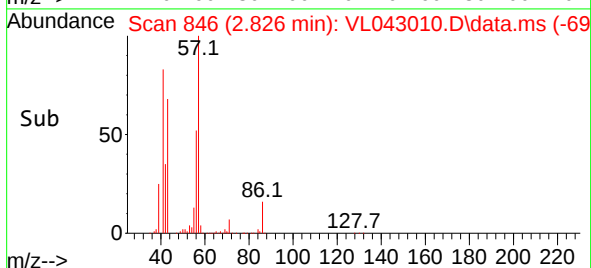
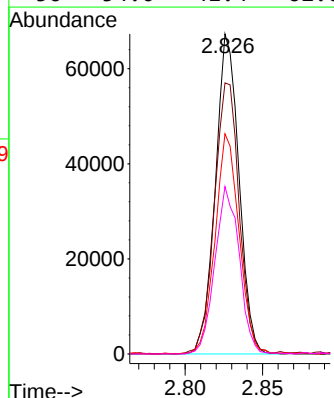
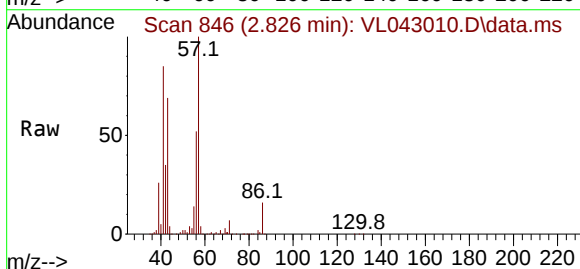
Instrument :
MSVOA_L
ClientSampleId :
SV1

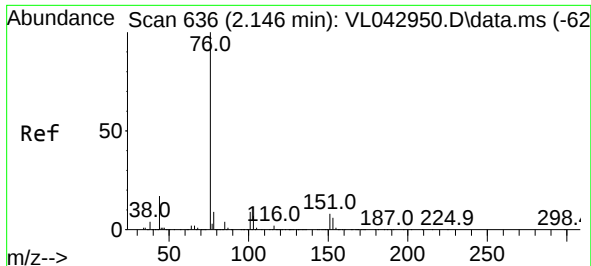
Tgt Ion: 43	Resp: 49533
Ion Ratio	Lower Upper
43 100	
45 1.3	7.7 11.5#
61 2.1	7.1 10.7#
70 1.8	6.7 10.1#



#26
Hexane
Concen: 3.089 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Tgt Ion: 57	Resp: 71281
Ion Ratio	Lower Upper
57 100	
41 89.5	71.7 107.5
43 70.4	180.8 271.2#
56 54.0	41.4 62.0

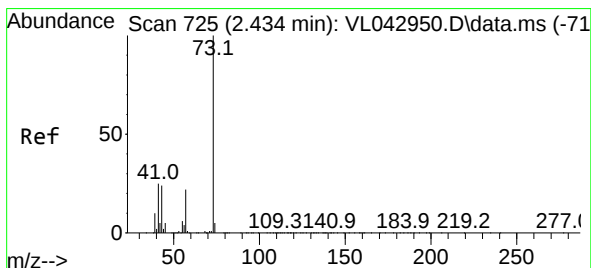
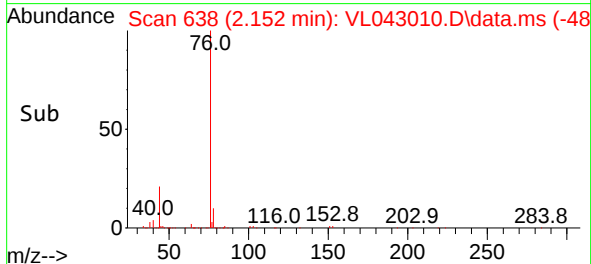
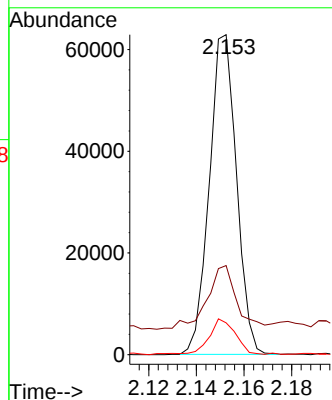
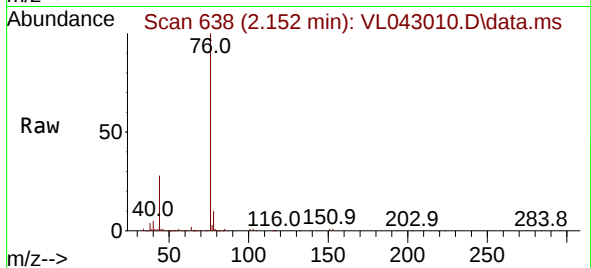




#27
Carbon Disulfide
Concen: 2.410 ppbv
RT: 2.152 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

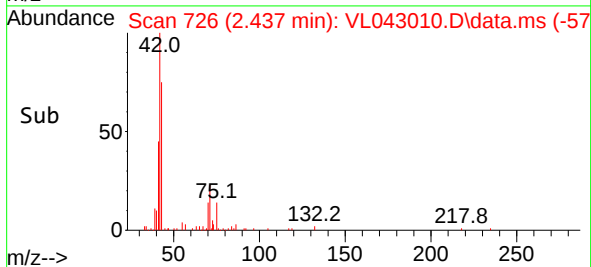
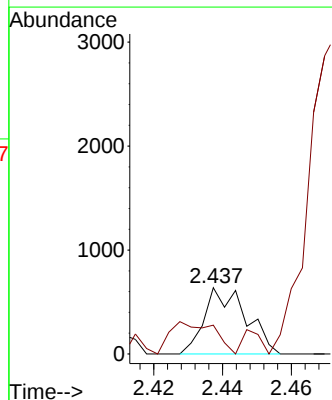
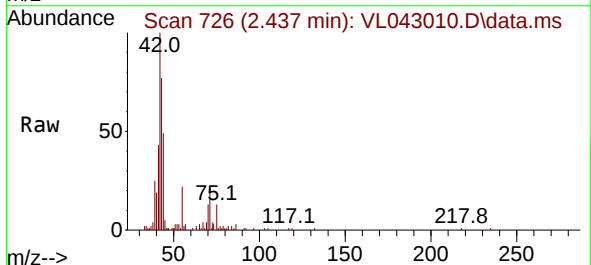
Instrument :
MSVOA_L
ClientSampleId :
SV1

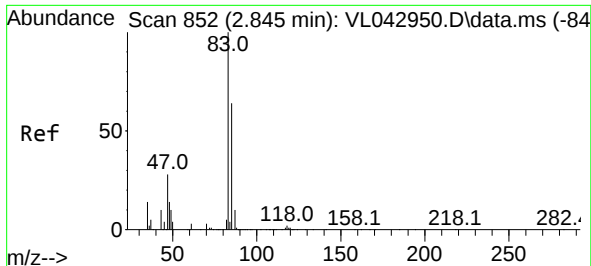
Tgt Ion: 76 Resp: 49869
Ion Ratio Lower Upper
76 100
44 29.4 15.6 23.4#
78 12.2 8.9 13.3



#28
Methyl tert-Butyl Ether
Concen: 0.045 ppbv
RT: 2.437 min Scan# 726
Delta R.T. 0.003 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Tgt Ion: 73 Resp: 538
Ion Ratio Lower Upper
73 100
57 0.0 20.6 31.0#





#29

Chloroform

Concen: 0.315 ppbv

RT: 2.848 min Scan# 85

Delta R.T. 0.003 min

Lab File: VL043010.D

Acq: 24 Sep 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

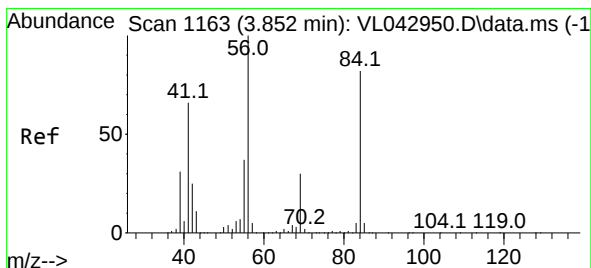
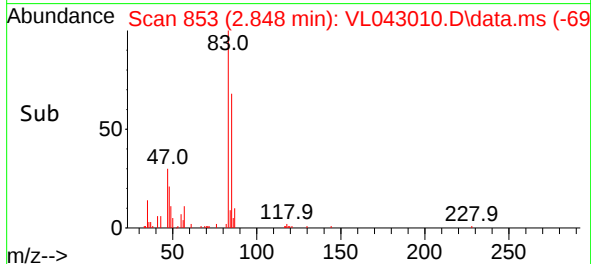
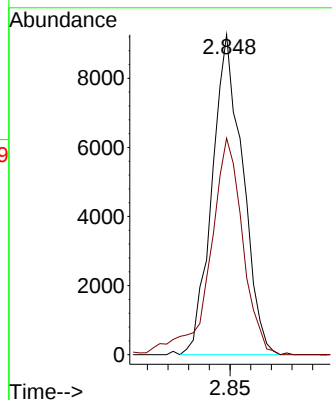
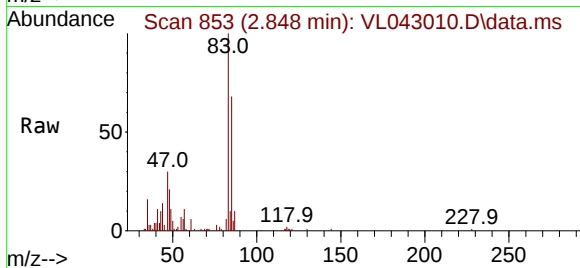
SV1

Tgt Ion: 83 Resp: 9515

Ion Ratio Lower Upper

83 100

85 67.7 51.2 76.8



#30

Cyclohexane

Concen: 1.392 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. 0.006 min

Lab File: VL043010.D

Acq: 24 Sep 2025 15:39

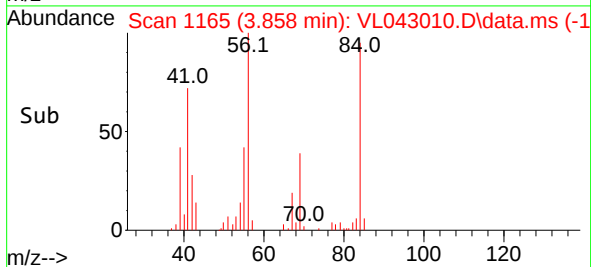
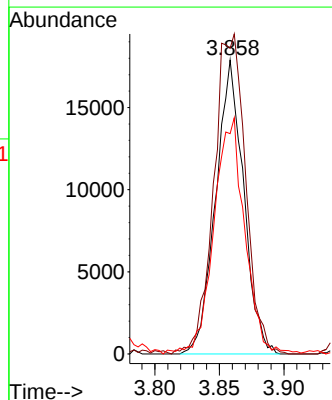
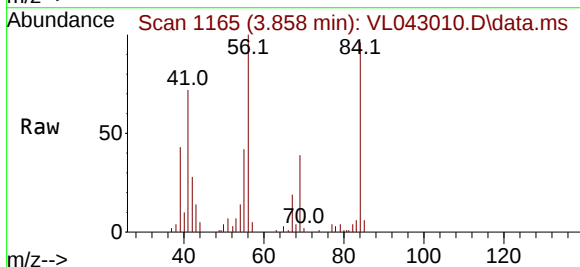
Tgt Ion: 84 Resp: 26849

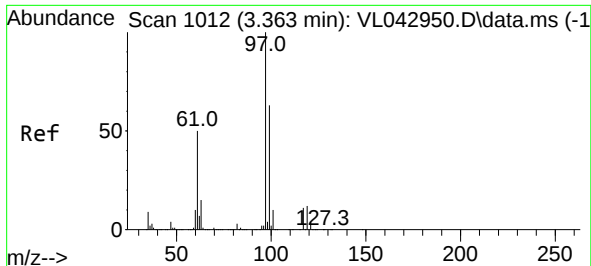
Ion Ratio Lower Upper

84 100

56 123.8 102.2 153.4

41 87.2 65.6 98.4

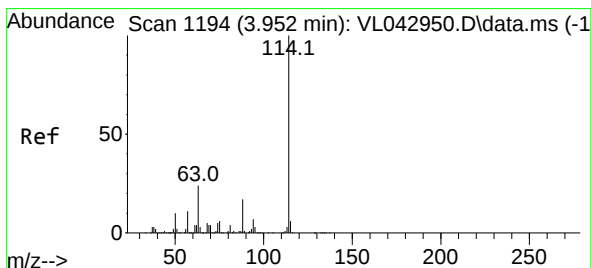
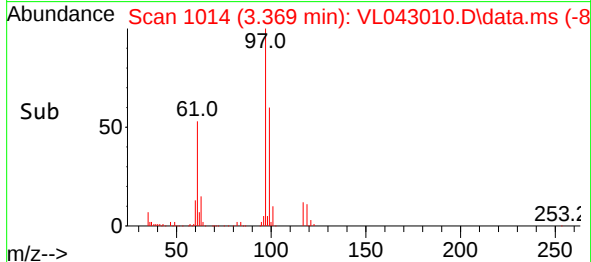
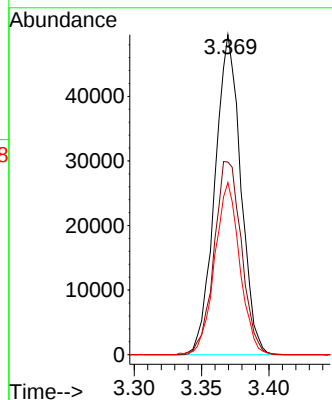
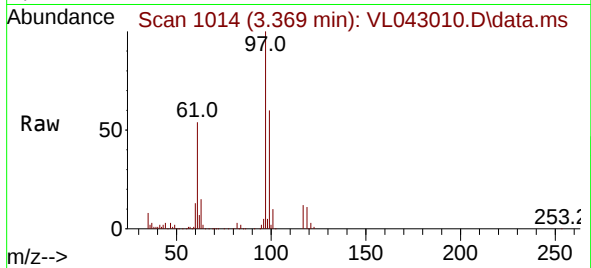




#32
 1,1,1-Trichloroethane
 Concen: 2.033 ppbv
 RT: 3.369 min Scan# 110
 Delta R.T. 0.006 min
 Lab File: VL043010.D
 Acq: 24 Sep 2025 15:39

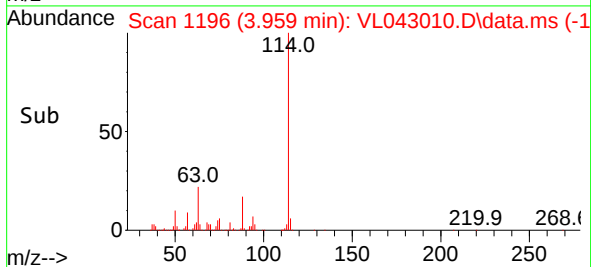
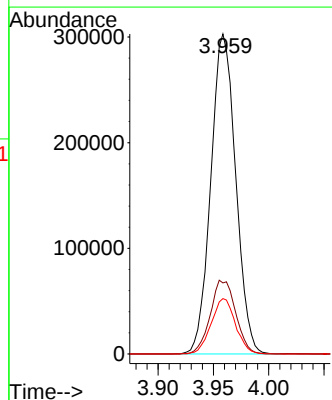
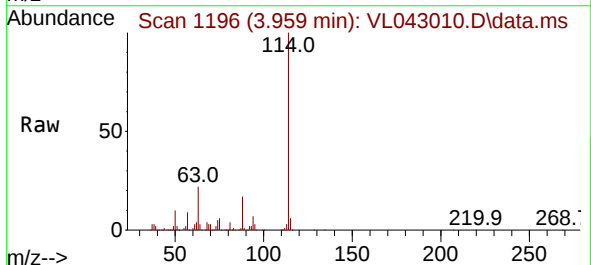
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

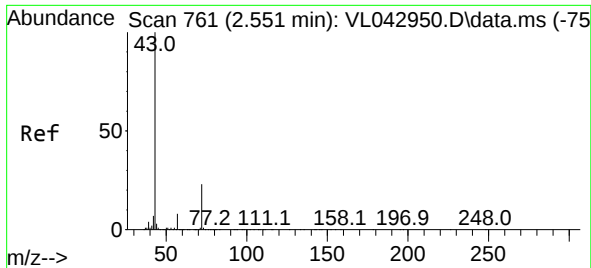
Tgt Ion:	97	Resp:	66252
Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.1	76.7
61	52.2	39.8	59.6



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.959 min Scan# 1196
 Delta R.T. 0.006 min
 Lab File: VL043010.D
 Acq: 24 Sep 2025 15:39

Tgt Ion:	114	Resp:	473304
Ion	Ratio	Lower	Upper
114	100		
63	23.6	19.4	29.2
88	16.9	14.2	21.2

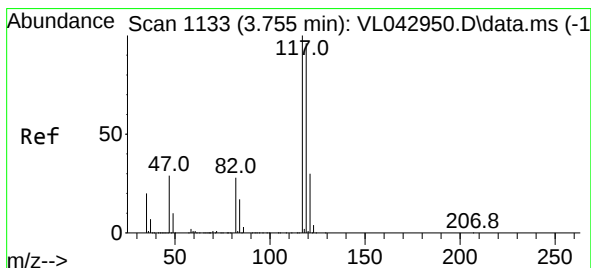
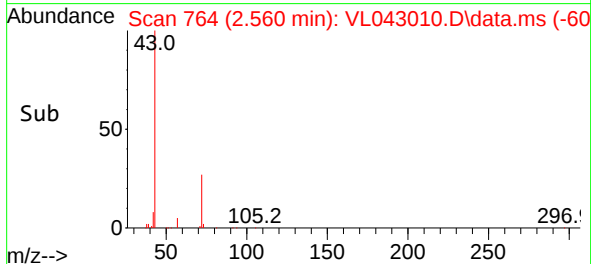
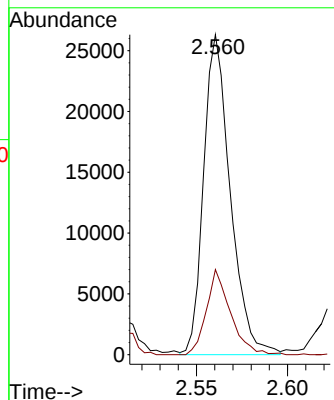
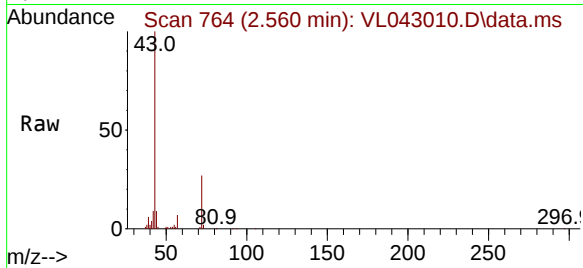




#34
2-Butanone
Concen: 0.809 ppbv
RT: 2.560 min Scan# 761
Delta R.T. 0.010 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

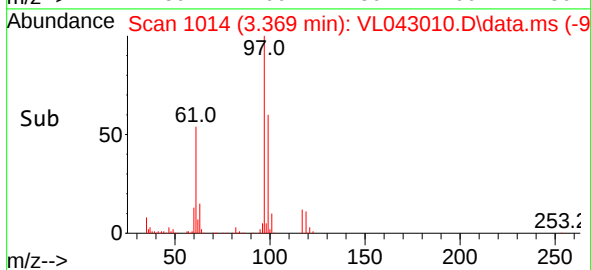
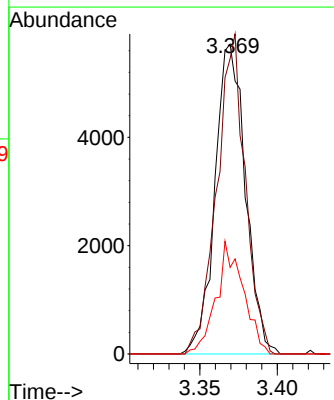
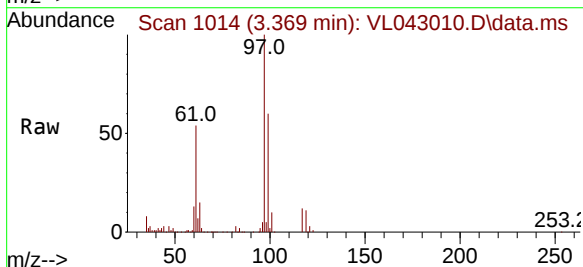
Instrument :
MSVOA_L
ClientSampleId :
SV1

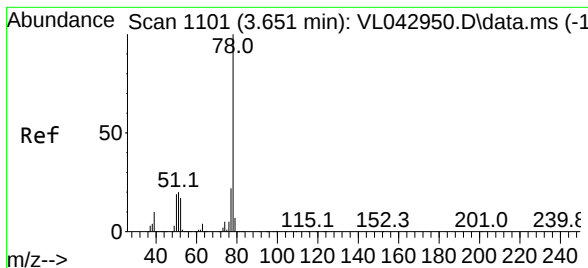
Tgt Ion: 43 Resp: 26819
Ion Ratio Lower Upper
43 100
72 24.1 17.7 26.5



#35
Carbon Tetrachloride
Concen: 0.254 ppbv
RT: 3.369 min Scan# 1014
Delta R.T. -0.385 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Tgt Ion: 117 Resp: 7842
Ion Ratio Lower Upper
117 100
119 96.6 76.9 115.3
121 28.0 23.7 35.5





#36

Benzene

Concen: 1.935 ppbv

RT: 3.658 min Scan# 1103

Delta R.T. 0.006 min

Lab File: VL043010.D

Acq: 24 Sep 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

SV1

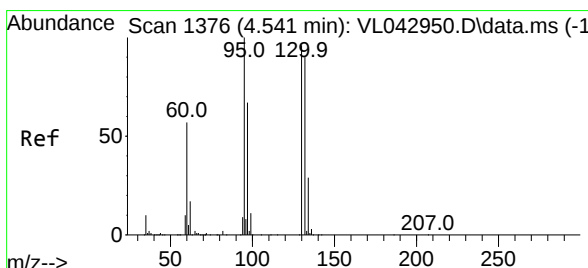
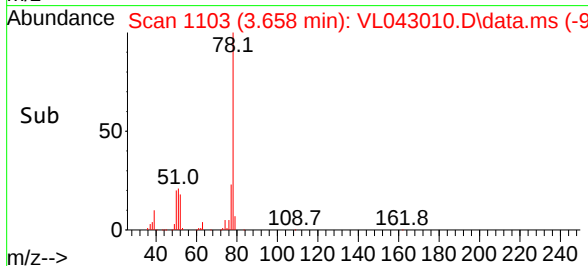
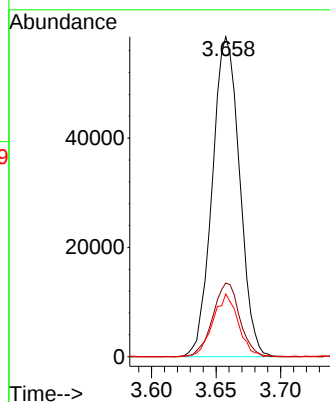
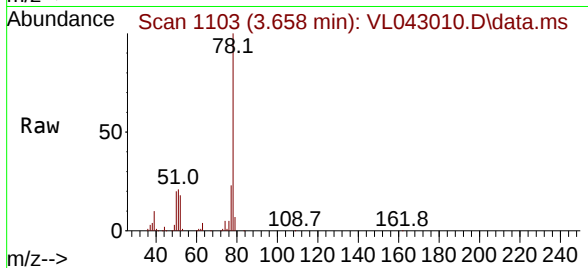
Tgt Ion: 78 Resp: 85986

Ion Ratio Lower Upper

78 100

77 22.9 17.8 26.6

50 19.6 15.0 22.4



#38

Trichloroethene

Concen: 13.243 ppbv

RT: 4.551 min Scan# 1379

Delta R.T. 0.010 min

Lab File: VL043010.D

Acq: 24 Sep 2025 15:39

Tgt Ion:130 Resp: 292517

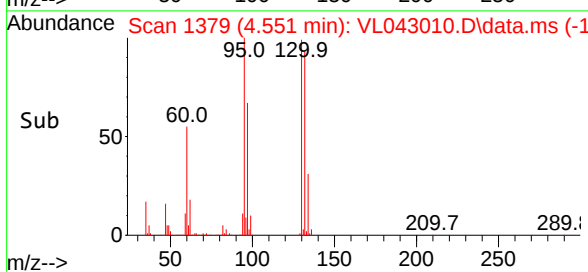
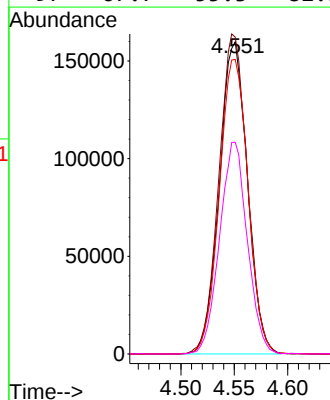
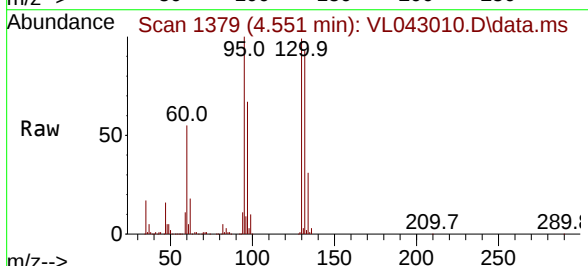
Ion Ratio Lower Upper

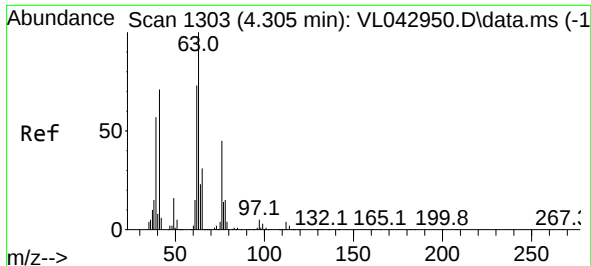
130 100

95 101.5 83.0 124.4

132 94.4 74.6 112.0

97 67.7 55.3 82.9





#39

1,2-Dichloropropane

Concen: 6.876 ppbv

RT: 3.955 min Scan# 1115

Delta R.T. -0.350 min

Lab File: VL043010.D

Acq: 24 Sep 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

SV1

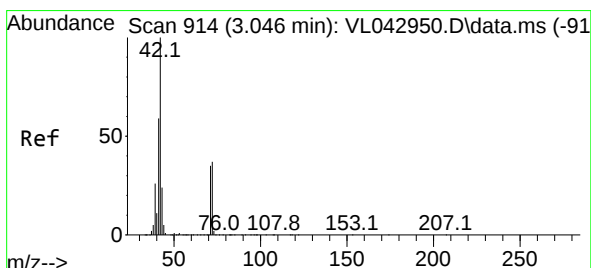
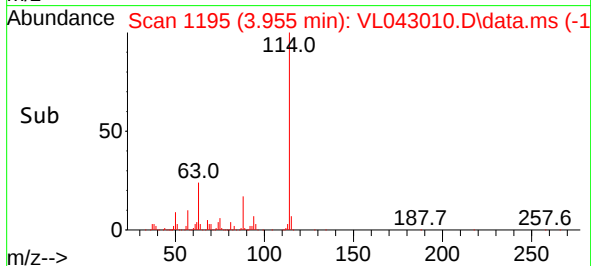
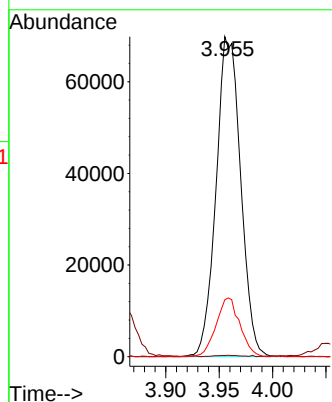
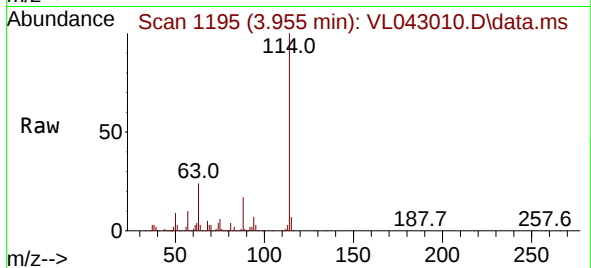
Tgt Ion: 63 Resp: 111561

Ion Ratio Lower Upper

63 100

41 0.3 57.5 86.3#

62 17.8 58.5 87.7#



#41

Tetrahydrofuran

Concen: 0.038 ppbv

RT: 3.068 min Scan# 921

Delta R.T. 0.022 min

Lab File: VL043010.D

Acq: 24 Sep 2025 15:39

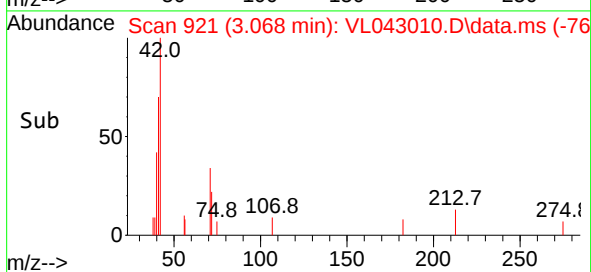
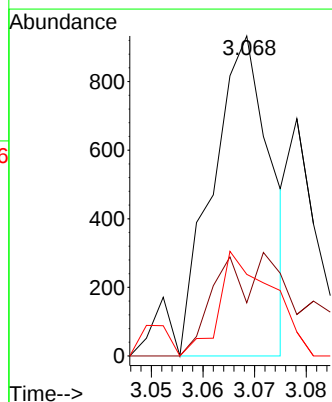
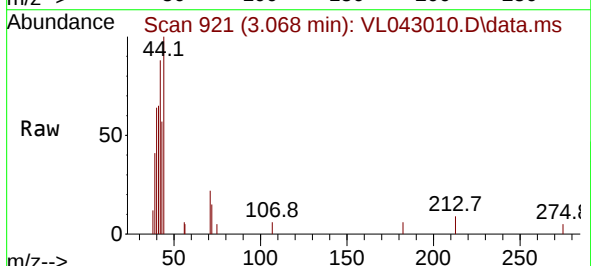
Tgt Ion: 42 Resp: 725

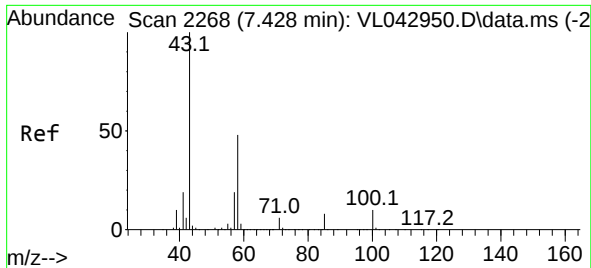
Ion Ratio Lower Upper

42 100

72 50.8 30.0 45.0#

71 38.6 28.8 43.2

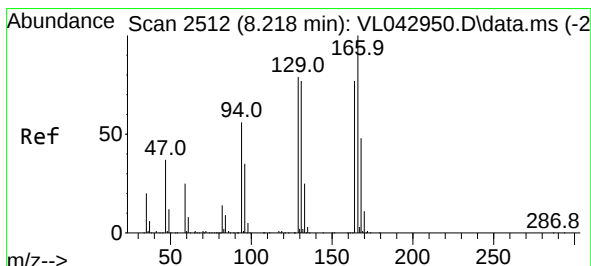
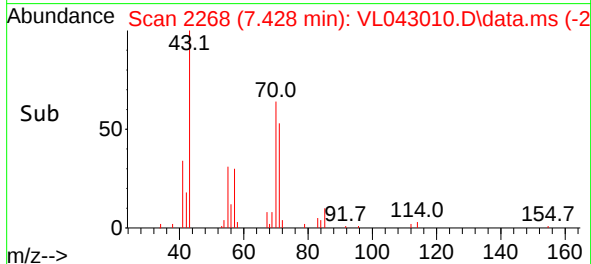
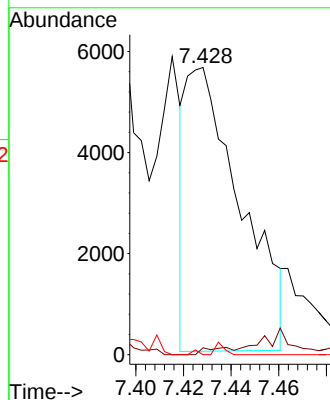
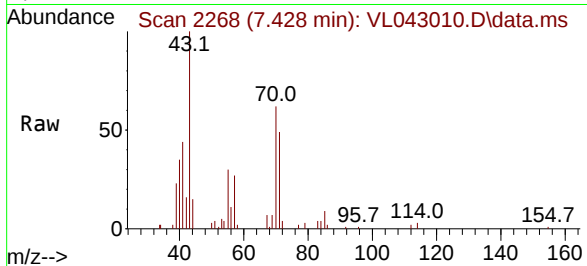




#51
2-Hexanone
Concen: 0.253 ppbv
RT: 7.428 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

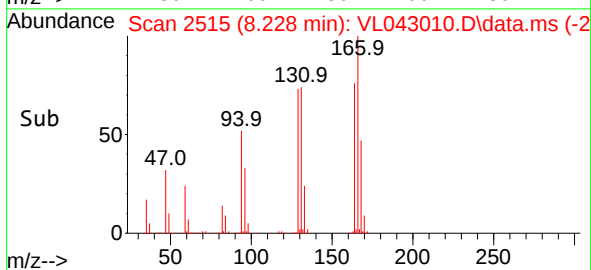
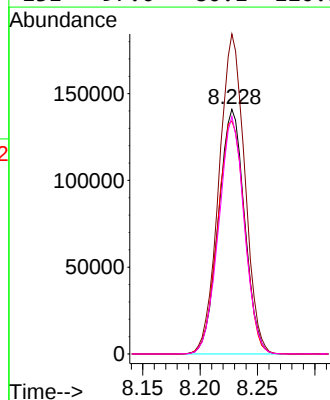
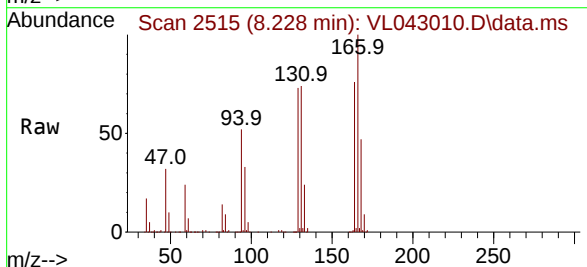
Instrument :
MSVOA_L
ClientSampleId :
SV1

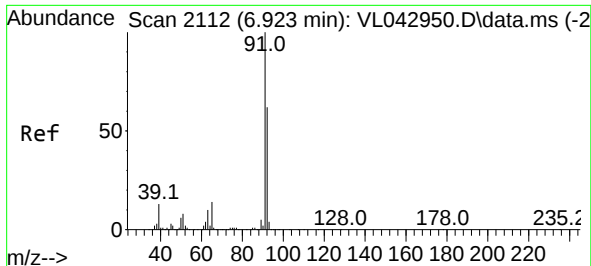
Tgt Ion: 43 Resp: 8959
Ion Ratio Lower Upper
43 100
58 0.0 39.7 59.5#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 12.992 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.010 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Tgt Ion: 164 Resp: 223431
Ion Ratio Lower Upper
164 100
166 130.8 103.5 155.3
129 95.2 82.2 123.4
131 97.0 80.1 120.1

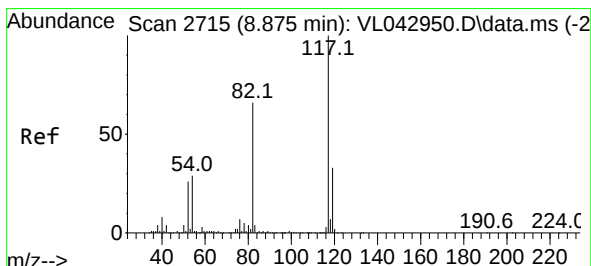
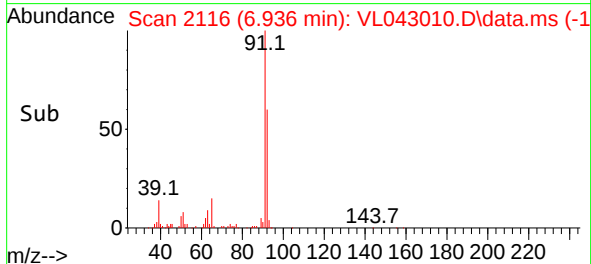
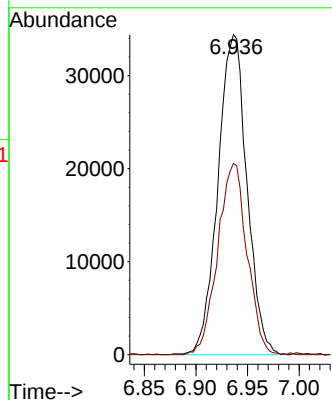
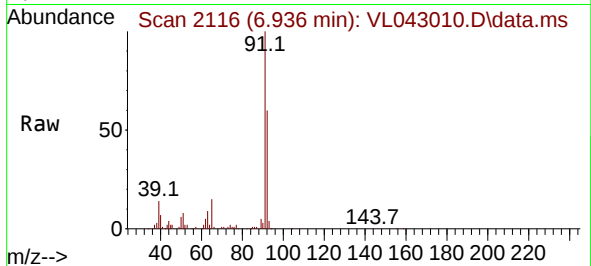




#53
Toluene
Concen: 1.279 ppbv
RT: 6.936 min Scan# 2112
Delta R.T. 0.013 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

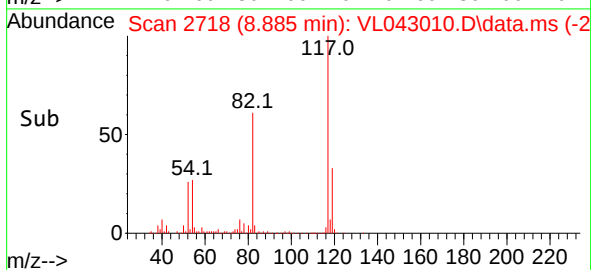
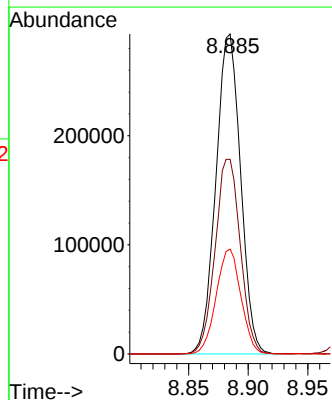
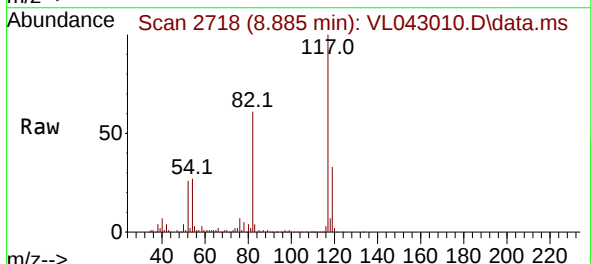
Instrument :
MSVOA_L
ClientSampleId :
SV1

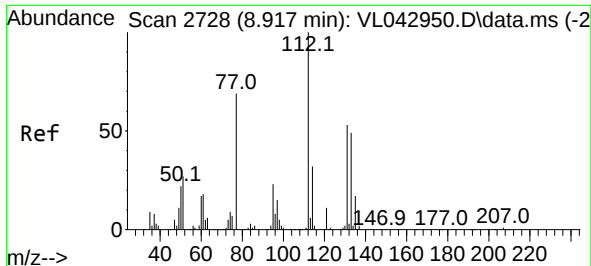
Tgt Ion: 91 Resp: 67271
Ion Ratio Lower Upper
91 100
92 60.5 48.2 72.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.010 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Tgt Ion: 117 Resp: 423014
Ion Ratio Lower Upper
117 100
82 62.0 52.8 79.2
119 32.7 26.5 39.7

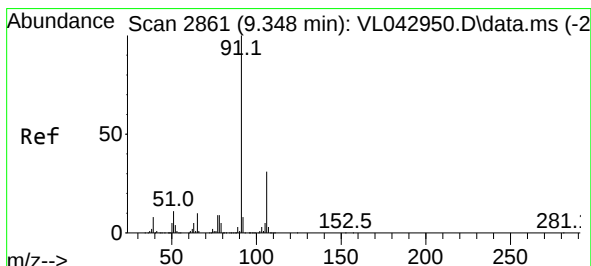
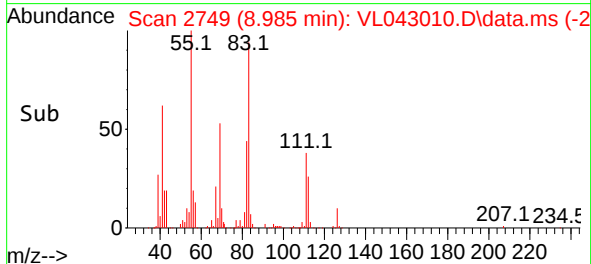
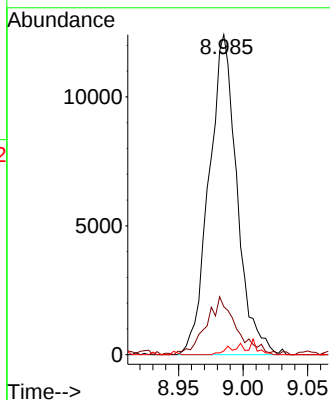
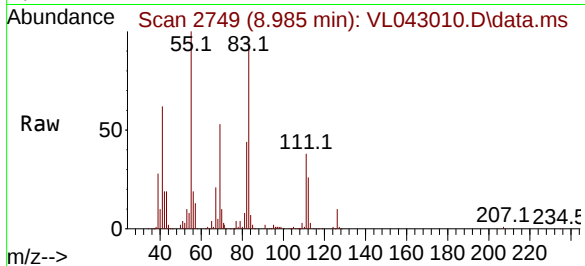




#57
Chlorobenzene
Concen: 0.484 ppbv
RT: 8.985 min Scan# 21
Delta R.T. 0.068 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

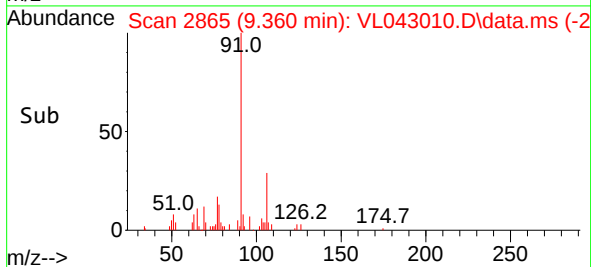
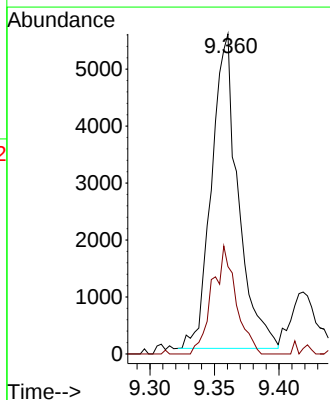
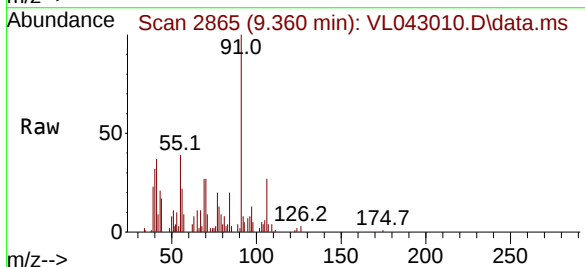
Instrument :
MSVOA_L
ClientSampleId :
SV1

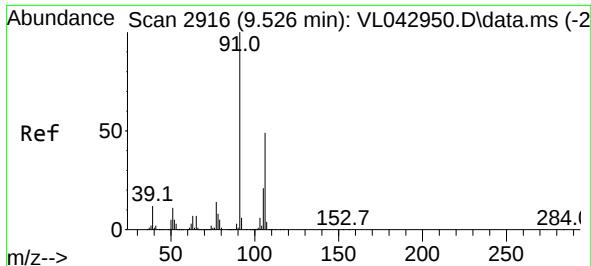
Tgt Ion: 112 Resp: 18697
Ion Ratio Lower Upper
112 100
77 15.0 55.7 83.5#
114 1.2 28.6 35.0#



#58
Ethyl Benzene
Concen: 0.114 ppbv
RT: 9.360 min Scan# 2865
Delta R.T. 0.013 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Tgt Ion: 91 Resp: 7912
Ion Ratio Lower Upper
91 100
106 27.8 24.6 37.0





#59

m/p-Xylene

Concen: 0.378 ppbv

RT: 9.532 min Scan# 2916

Delta R.T. 0.006 min

Lab File: VL043010.D

Acq: 24 Sep 2025 15:39

Instrument :

MSVOA_1

ClientSampleId :

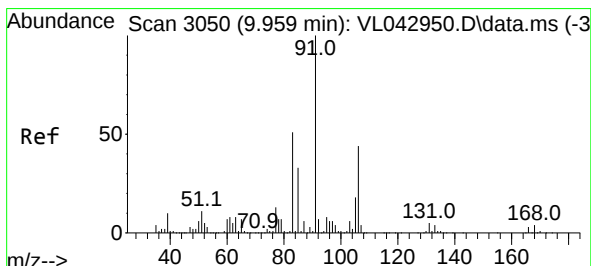
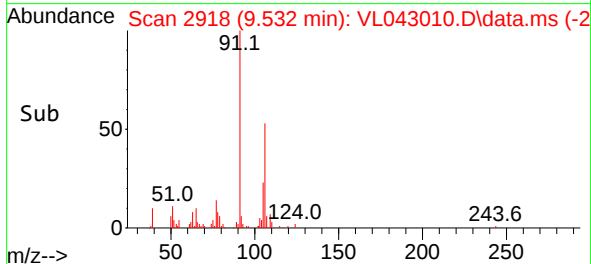
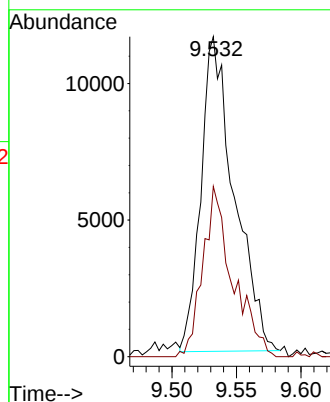
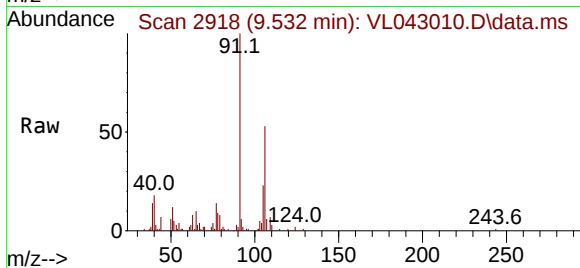
SV1

Tgt Ion: 91 Resp: 20709

Ion Ratio Lower Upper

91 100

106 48.6 0.0 0.0#



#60

o-Xylene

Concen: 0.307 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.003 min

Lab File: VL043010.D

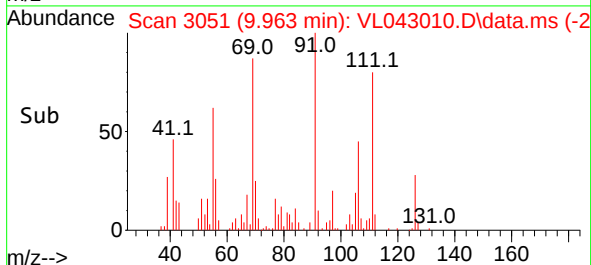
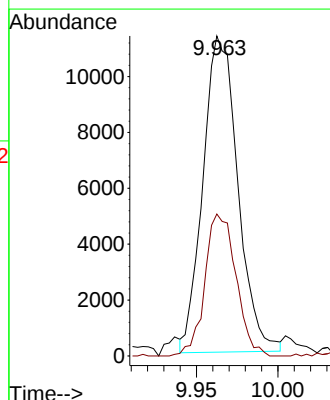
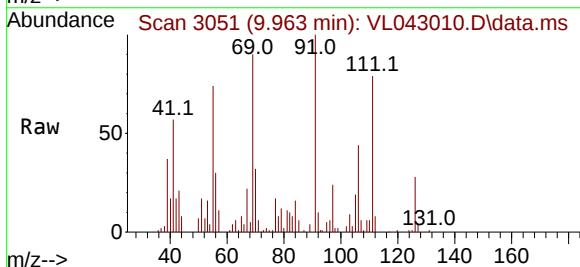
Acq: 24 Sep 2025 15:39

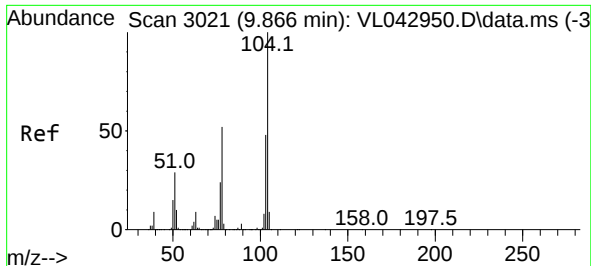
Tgt Ion: 91 Resp: 16797

Ion Ratio Lower Upper

91 100

106 40.2 22.4 67.0

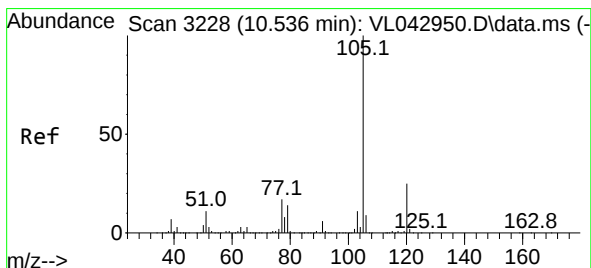
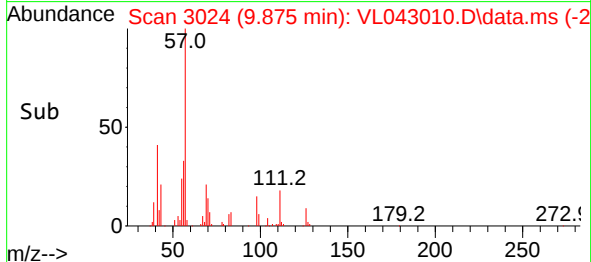
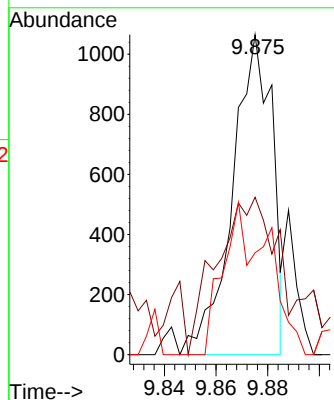
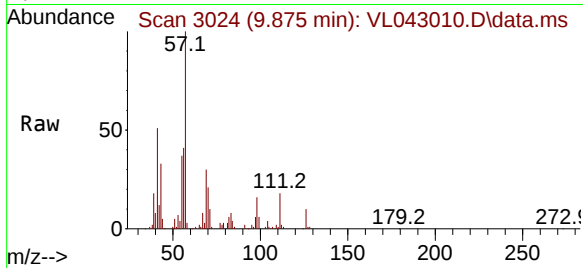




#61
Styrene
Concen: 0.044 ppbv
RT: 9.875 min Scan# 3021
Delta R.T. 0.010 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

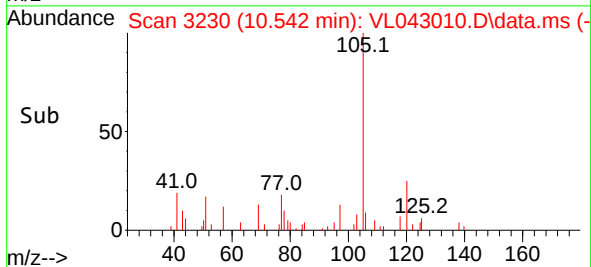
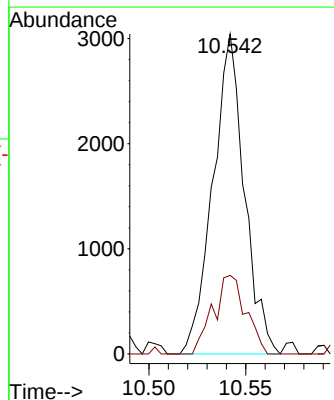
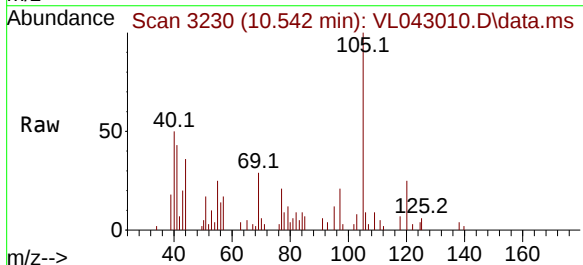
Instrument :
MSVOA_L
ClientSampleId :
SV1

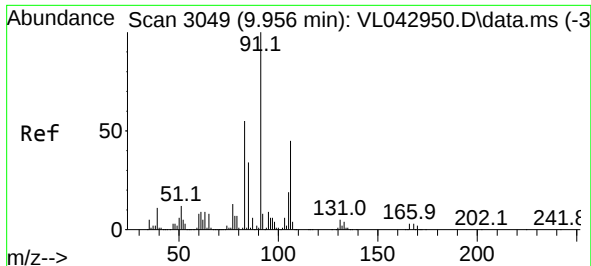
Tgt Ion:104 Resp: 1140
Ion Ratio Lower Upper
104 100
78 119.9 39.9 59.9#
103 57.5 36.9 55.3#



#62
Isopropylbenzene
Concen: 0.042 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.006 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Tgt Ion:105 Resp: 3431
Ion Ratio Lower Upper
105 100
120 25.9 20.6 30.8

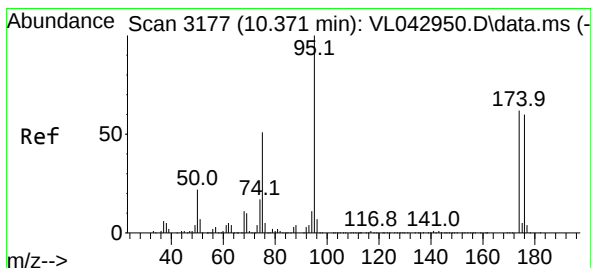
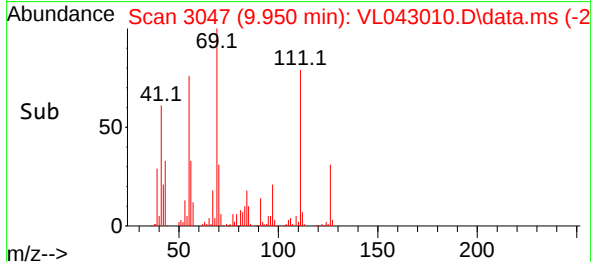
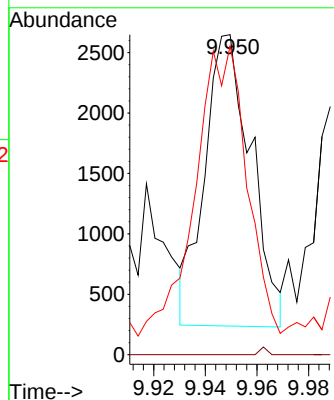
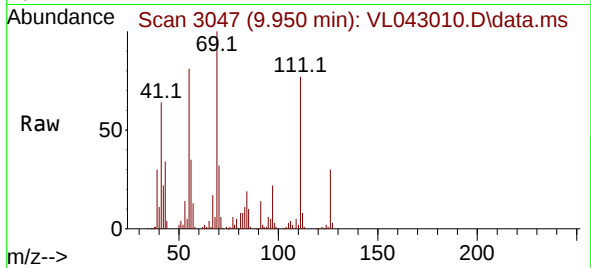




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.105 ppbv
 RT: 9.950 min Scan# 3049
 Delta R.T. -0.007 min
 Lab File: VL043010.D
 Acq: 24 Sep 2025 15:39

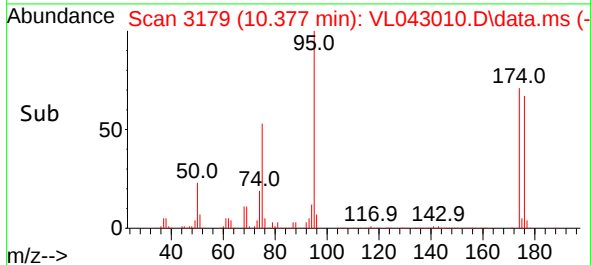
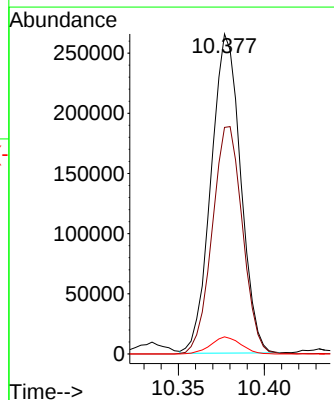
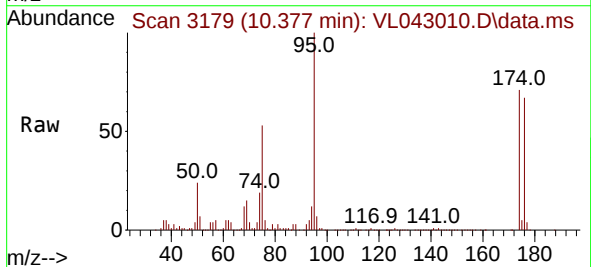
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

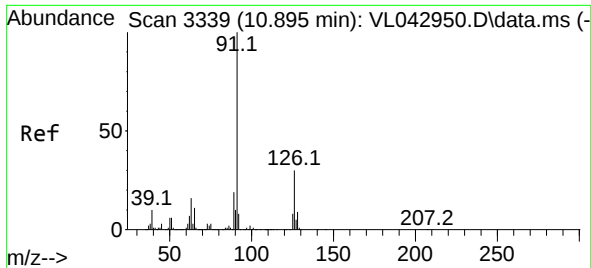
Tgt Ion: 83 Resp: 3017
 Ion Ratio Lower Upper
 83 100
 131 0.0 4.8 14.4#
 85 114.5 32.2 96.6#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.055 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. 0.006 min
 Lab File: VL043010.D
 Acq: 24 Sep 2025 15:39

Tgt Ion: 95 Resp: 317512
 Ion Ratio Lower Upper
 95 100
 174 73.1 51.4 77.2
 175 5.4 4.0 6.0

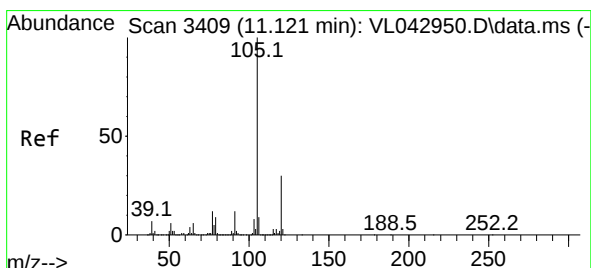
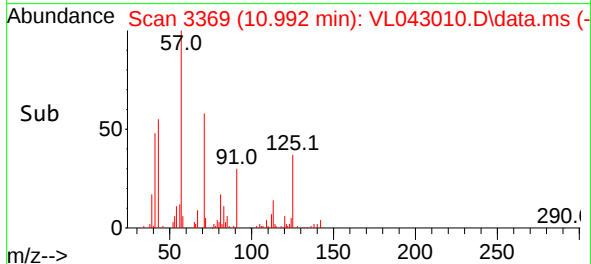
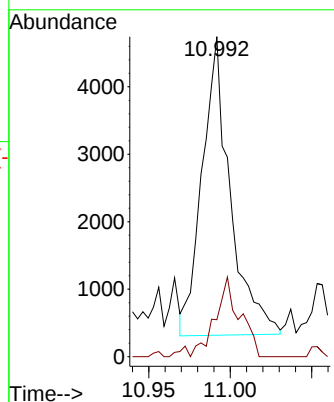
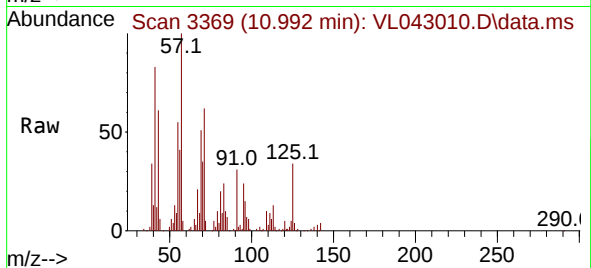




#71
2-Chlorotoluene
Concen: 0.086 ppbv
RT: 10.992 min Scan# 31
Delta R.T. 0.097 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

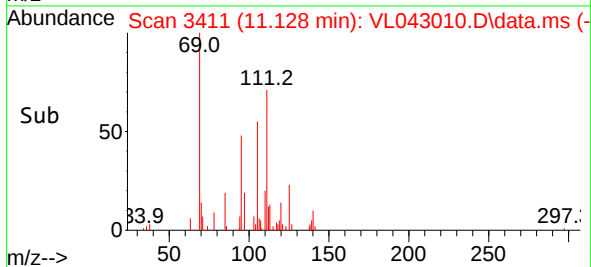
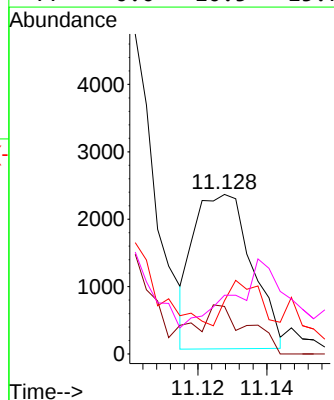
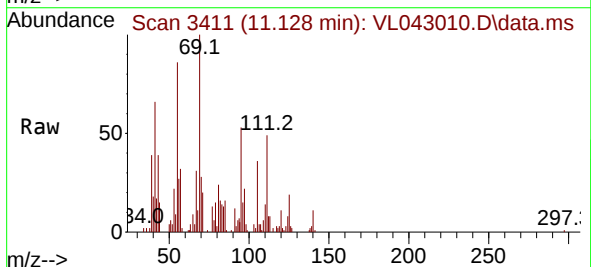
Instrument :
MSVOA_L
ClientSampleId :
SV1

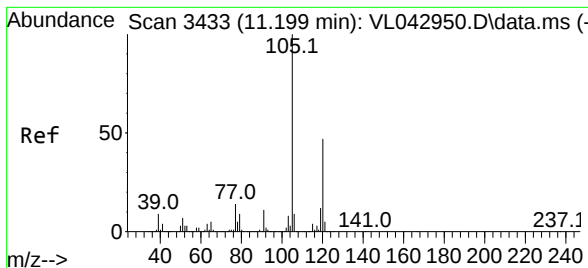
Tgt Ion: 91 Resp: 5308
Ion Ratio Lower Upper
91 100
126 24.7 12.3 49.3



#72
4-Ethyltoluene
Concen: 0.039 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.006 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Tgt Ion:105 Resp: 2683
Ion Ratio Lower Upper
105 100
120 0.0 24.2 36.2#
91 41.3 10.0 15.0#
77 0.0 10.5 15.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.122 ppbv

RT: 11.205 min Scan# 3433

Delta R.T. 0.006 min

Lab File: VL043010.D

Acq: 24 Sep 2025 15:39

Instrument :

MSVOA_1

ClientSampleId :

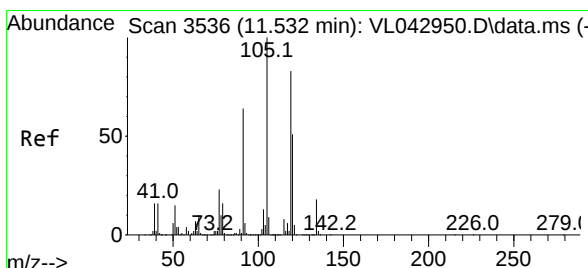
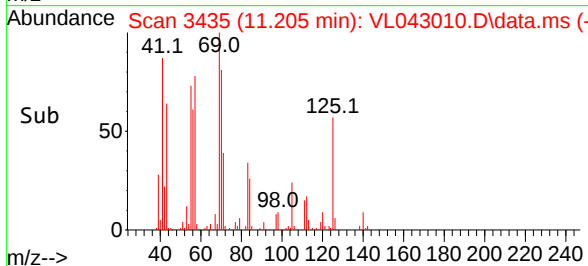
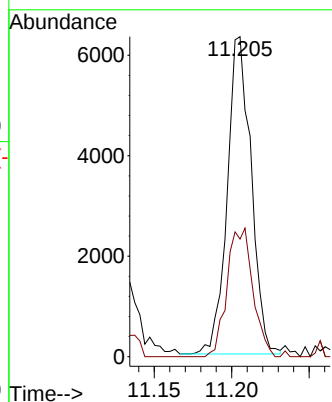
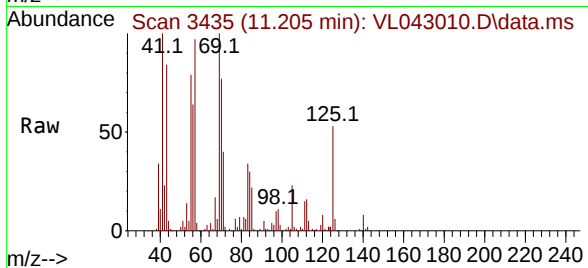
SV1

Tgt Ion:105 Resp: 6786

Ion Ratio Lower Upper

105 100

120 37.1 38.0 57.0#



#74

1,2,4-Trimethylbenzene

Concen: 0.182 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.003 min

Lab File: VL043010.D

Acq: 24 Sep 2025 15:39

Tgt Ion:105 Resp: 11191

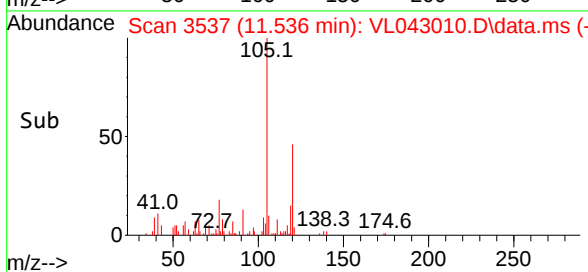
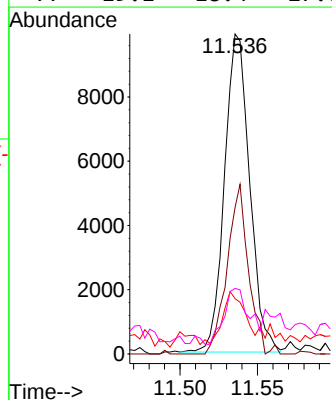
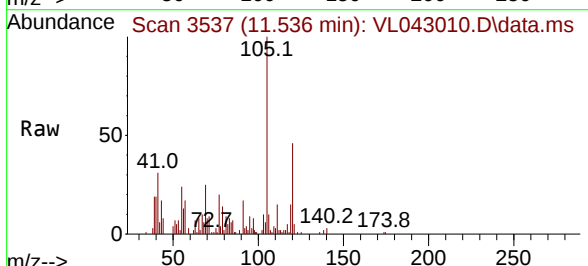
Ion Ratio Lower Upper

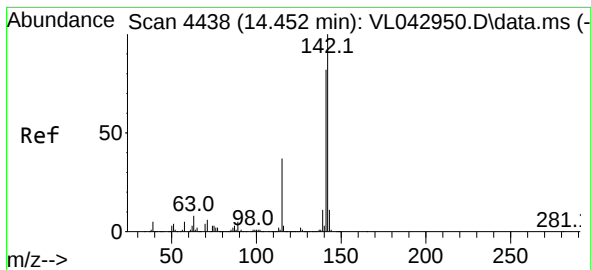
105 100

120 46.1 40.9 61.3

91 10.9 51.2 76.8#

77 19.1 18.4 27.6





#80

Naphthalene, 2-methyl-

Concen: 0.247 ppbv

RT: 14.461 min Scan# 44

Delta R.T. 0.010 min

Lab File: VL043010.D

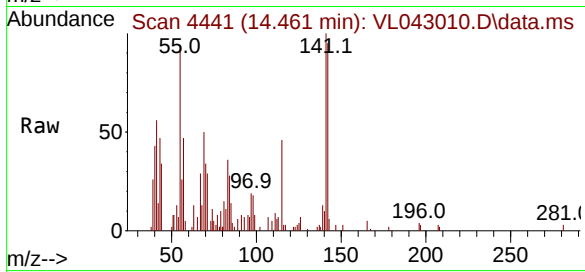
Acq: 24 Sep 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

SV1



Tgt Ion:	142	Resp:	4135
Ion	Ratio	Lower	Upper
142	100		
141	121.5	65.1	97.7#
115	46.5	28.9	43.3#

