

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100925\
 Data File : VL043101.D
 Acq On : 09 Oct 2025 22:58
 Operator : SY/MD
 Sample : Q3320-08DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV4DL

Quant Time: Oct 09 23:49:10 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)

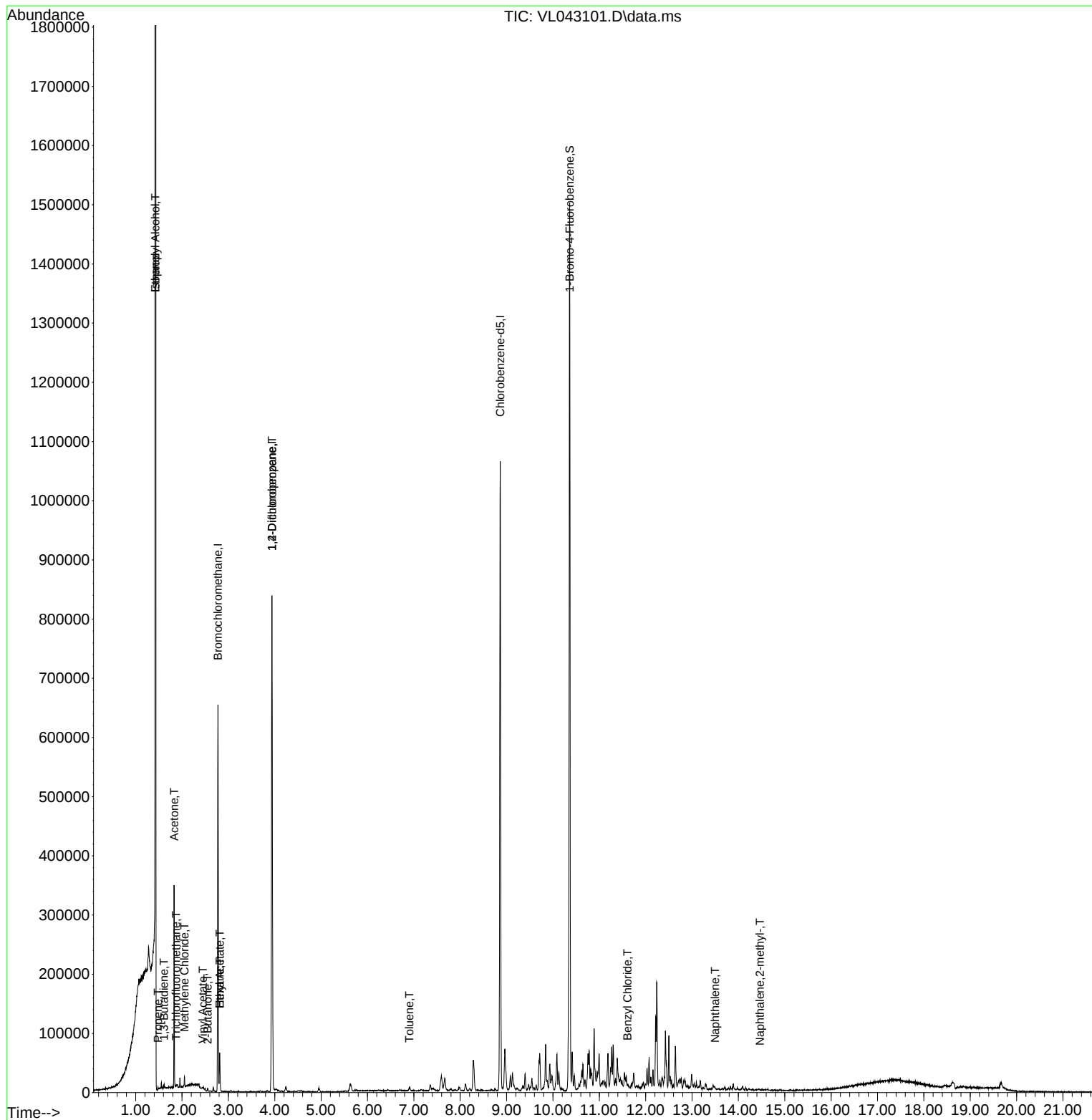
Internal Standards						
1) Bromochloromethane	2.774	49	170025	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.939	114	427891	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.862	117	411008	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.361	95	366115	12.365	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	123.700%
Target Compounds						
					Qvalue	
9) Propene	1.483	41	741	0.066	ppbv #	17
11) Trichlorofluoromethane	1.871	101	889	0.030	ppbv #	77
13) Ethanol	1.424	45	184392	453.965	ppbv	88
15) Acetone	1.829	43	137084	5.758	ppbv	100
16) 1,3-Butadiene	1.612	39	343	0.035	ppbv #	34
19) Isopropyl Alcohol	1.424	45	184392	16.166	ppbv #	25
20) Methylene Chloride	2.052	84	2512	0.242	ppbv #	90
23) Vinyl Acetate	2.450	43	155	0.031	ppbv #	55
25) Ethyl Acetate	2.813	43	8112	0.136	ppbv #	76
26) Hexane	2.813	57	9710	0.423	ppbv #	28
34) 2-Butanone	2.551	43	3031	0.104	ppbv	99
39) 1,2-Dichloropropane	3.939	63	109927	7.254	ppbv #	23
53) Toluene	6.901	91	2405	0.058	ppbv #	34
66) Benzyl Chloride	11.607	91	141	0.050	ppbv #	65
79) Naphthalene	13.497	128	50	0.235	ppbv #	1
80) Naphthalene,2-methyl-	14.465	142	68	0.665	ppbv #	13

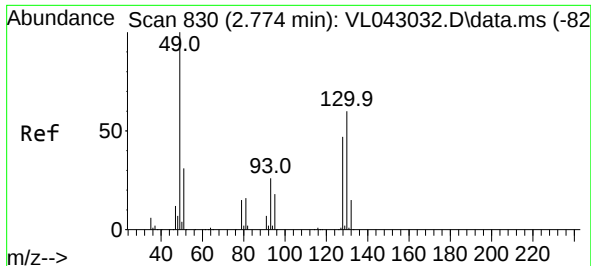
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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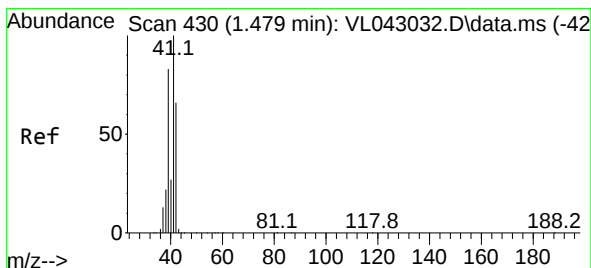
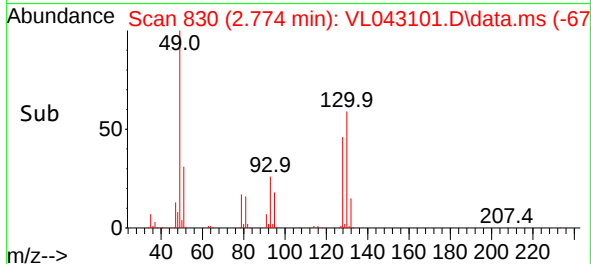
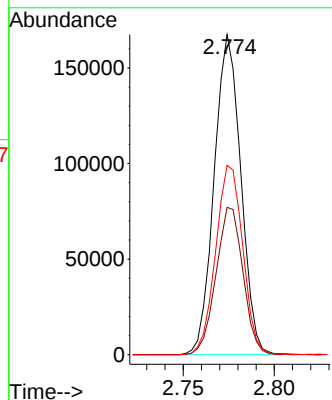
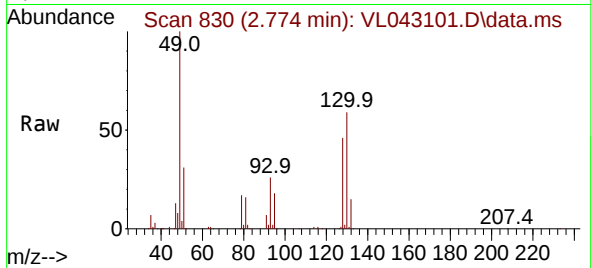




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.774 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL043101.D
Acq: 09 Oct 2025 22:58

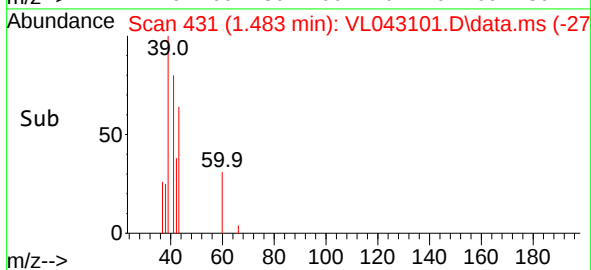
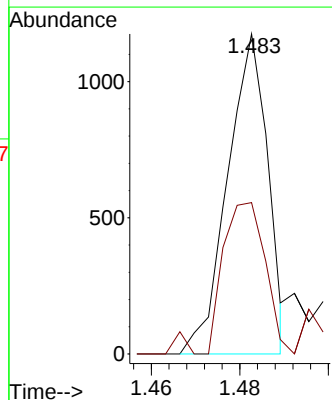
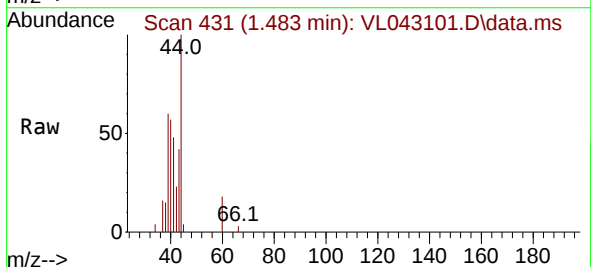
Instrument :
MSVOA_L
ClientSampleId :
SV4DL

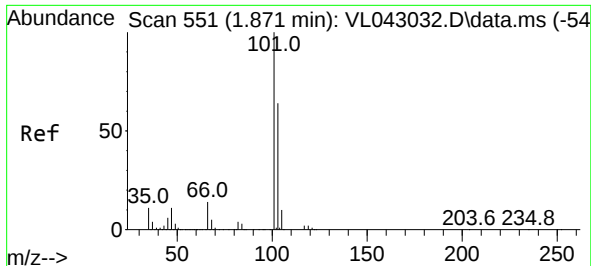
Tgt Ion: 49 Resp: 170025
Ion Ratio Lower Upper
49 100
128 46.7 24.1 72.2
130 60.4 31.4 94.3



#9
Propene
Concen: 0.066 ppbv
RT: 1.483 min Scan# 431
Delta R.T. 0.003 min
Lab File: VL043101.D
Acq: 09 Oct 2025 22:58

Tgt Ion: 41 Resp: 741
Ion Ratio Lower Upper
41 100
42 0.0 53.3 79.9#

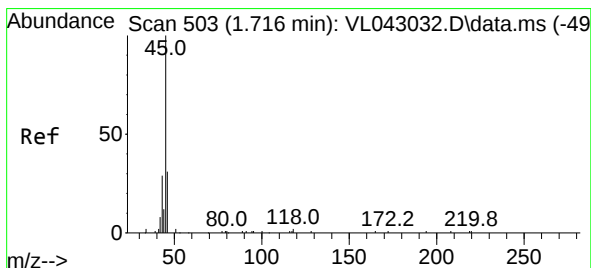
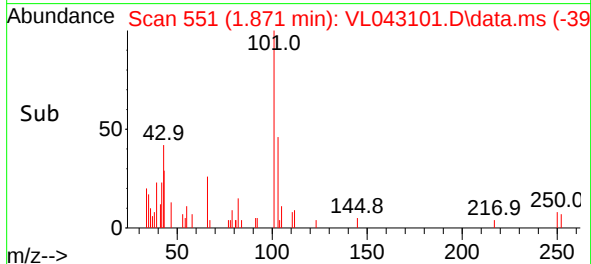
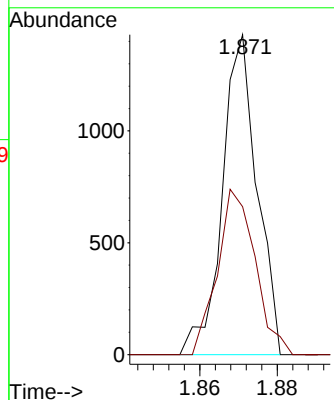
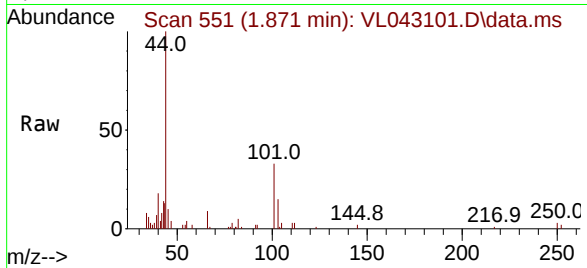




#11
 Trichlorofluoromethane
 Concen: 0.030 ppbv
 RT: 1.871 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL043101.D
 Acq: 09 Oct 2025 22:58

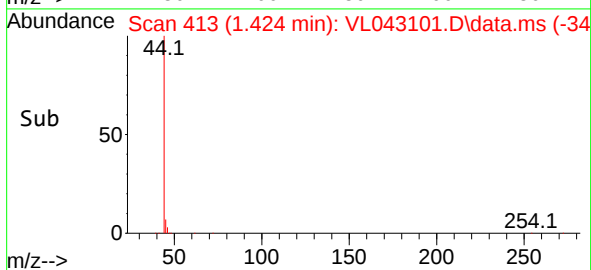
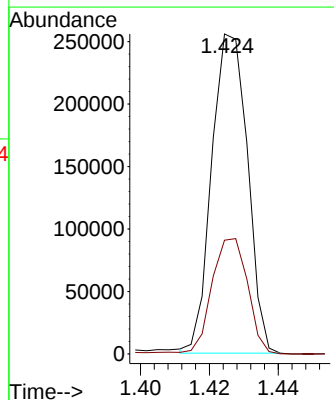
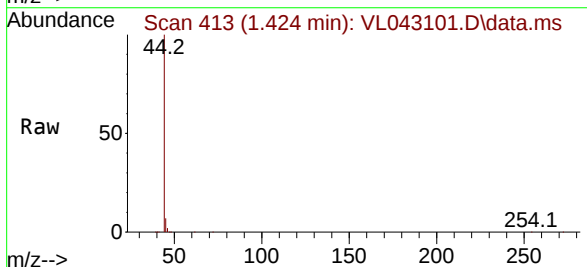
Instrument :
 MSVOA_L
 ClientSampleId :
 SV4DL

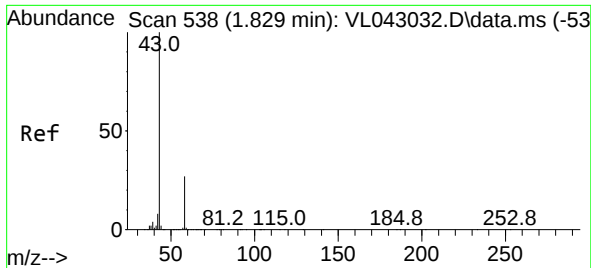
Tgt Ion:101 Resp: 889
 Ion Ratio Lower Upper
 101 100
 103 46.2 51.1 76.7#



#13
 Ethanol
 Concen: 453.965 ppbv
 RT: 1.424 min Scan# 413
 Delta R.T. -0.292 min
 Lab File: VL043101.D
 Acq: 09 Oct 2025 22:58

Tgt Ion: 45 Resp: 184392
 Ion Ratio Lower Upper
 45 100
 46 36.9 17.8 71.4





#15

Acetone

Concen: 5.758 ppbv

RT: 1.829 min Scan# 51

Delta R.T. 0.000 min

Lab File: VL043101.D

Acq: 09 Oct 2025 22:58

Instrument :

MSVOA_L

ClientSampleId :

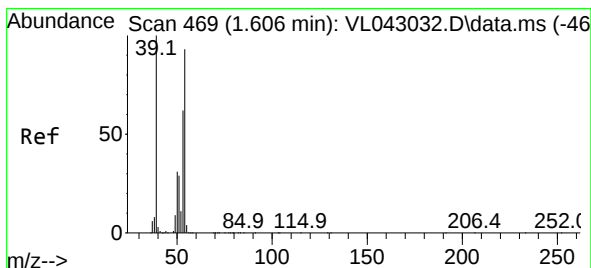
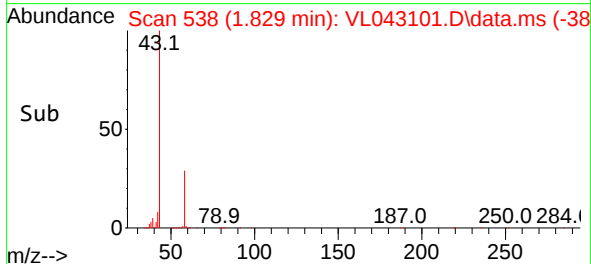
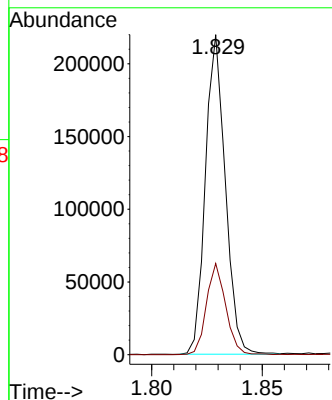
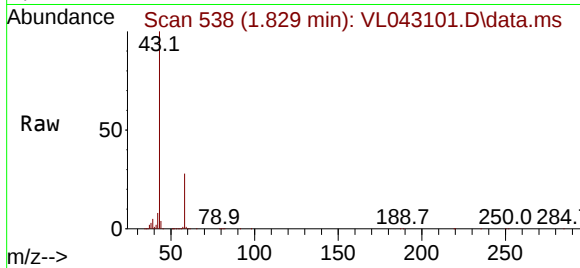
SV4DL

Tgt Ion: 43 Resp: 137084

Ion Ratio Lower Upper

43 100

58 27.8 22.2 33.4



#16

1,3-Butadiene

Concen: 0.035 ppbv

RT: 1.612 min Scan# 471

Delta R.T. 0.007 min

Lab File: VL043101.D

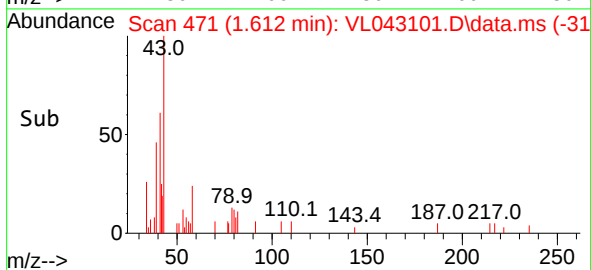
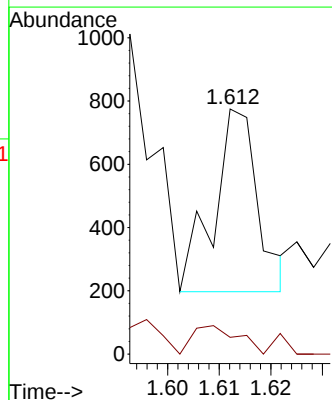
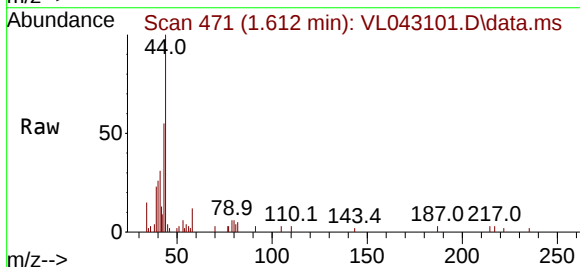
Acq: 09 Oct 2025 22:58

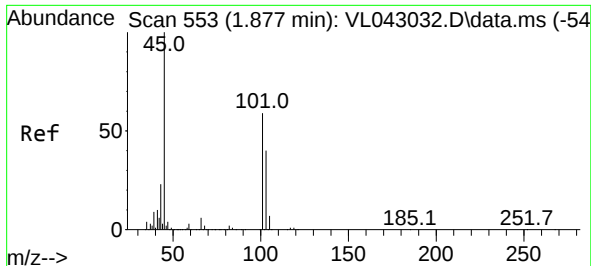
Tgt Ion: 39 Resp: 343

Ion Ratio Lower Upper

39 100

54 19.8 61.4 92.2#





#19

Isopropyl Alcohol

Concen: 16.166 ppbv

RT: 1.424 min Scan# 413

Delta R.T. -0.453 min

Lab File: VL043101.D

Acq: 09 Oct 2025 22:58

Instrument :

MSVOA_L

ClientSampleId :

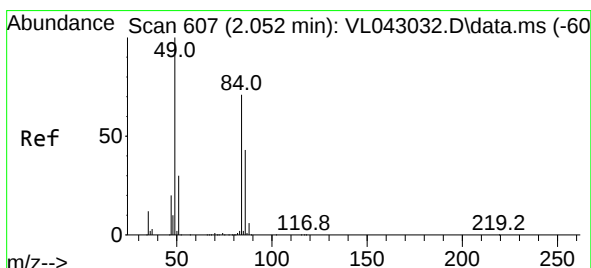
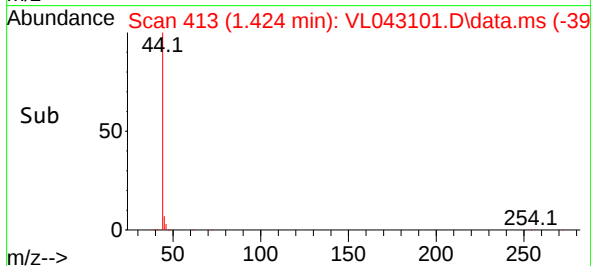
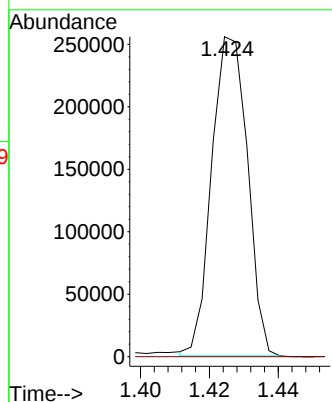
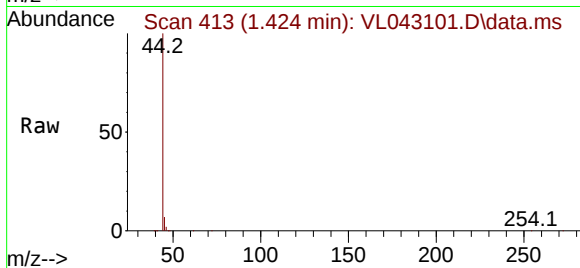
SV4DL

Tgt Ion: 45 Resp: 184392

Ion Ratio Lower Upper

45 100

58 0.0 42.3 63.5#



#20

Methylene Chloride

Concen: 0.242 ppbv

RT: 2.052 min Scan# 607

Delta R.T. 0.000 min

Lab File: VL043101.D

Acq: 09 Oct 2025 22:58

Tgt Ion: 84 Resp: 2512

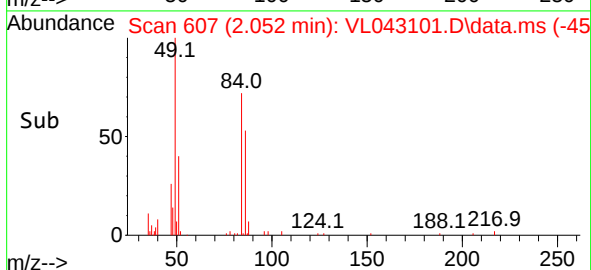
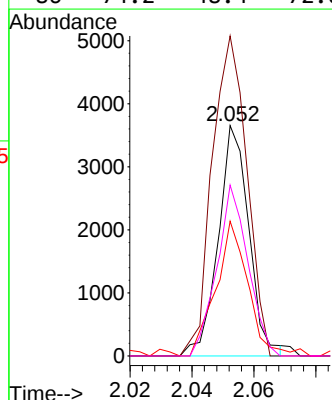
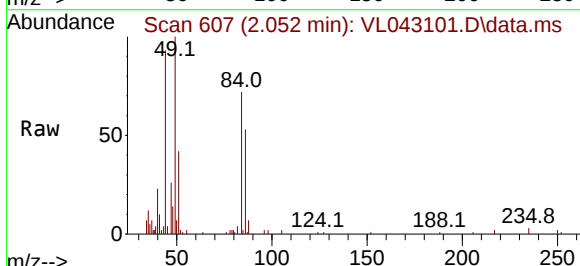
Ion Ratio Lower Upper

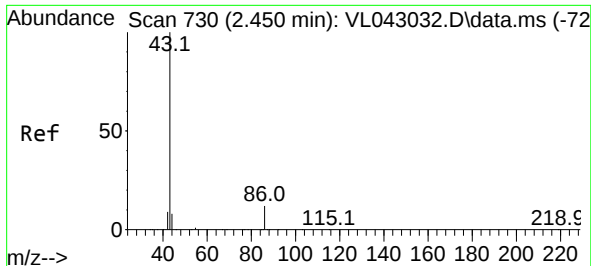
84 100

49 138.9 112.5 168.7

51 58.5 34.2 51.2#

86 74.2 48.4 72.6#

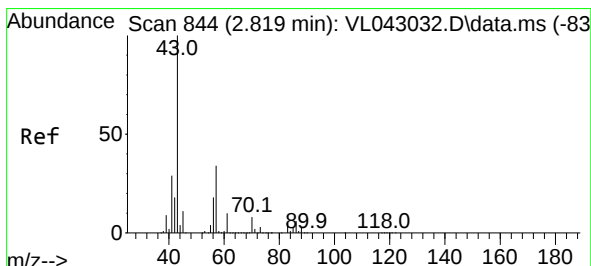
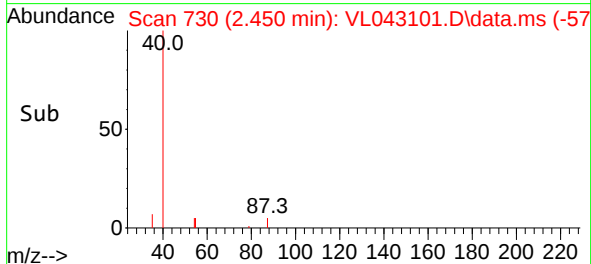
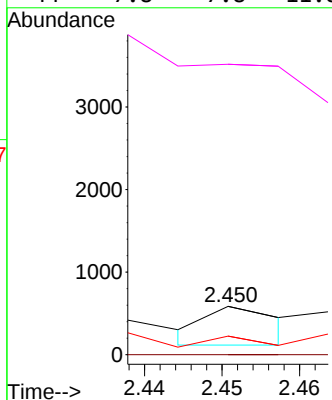
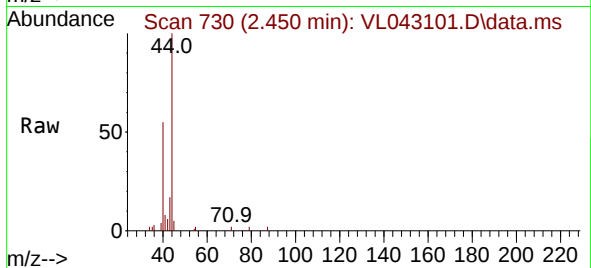




#23
 Vinyl Acetate
 Concen: 0.031 ppbv
 RT: 2.450 min Scan# 71
 Delta R.T. 0.000 min
 Lab File: VL043101.D
 Acq: 09 Oct 2025 22:58

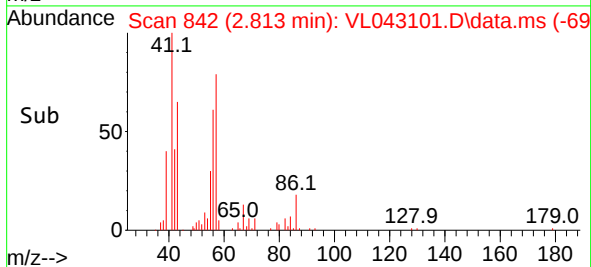
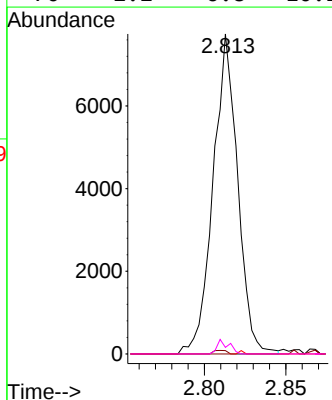
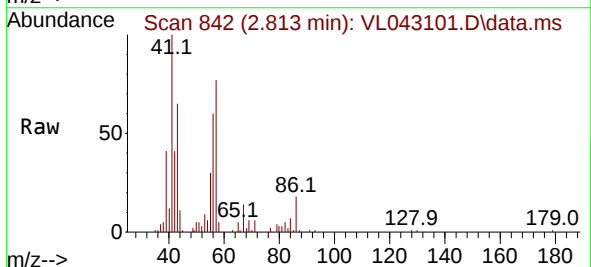
Instrument :
 MSVOA_L
 ClientSampleId :
 SV4DL

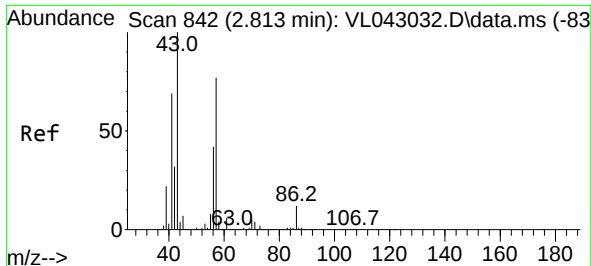
Tgt Ion:	43	Resp:	155
Ion	Ratio	Lower	Upper
43	100		
86	0.0	7.5	11.3#
42	47.7	8.4	12.6#
44	7.8	7.8	11.8#



#25
 Ethyl Acetate
 Concen: 0.136 ppbv
 RT: 2.813 min Scan# 842
 Delta R.T. -0.006 min
 Lab File: VL043101.D
 Acq: 09 Oct 2025 22:58

Tgt Ion:	43	Resp:	8112
Ion	Ratio	Lower	Upper
43	100		
45	0.6	8.3	12.5#
61	0.0	7.5	11.3#
70	2.2	6.8	10.2#

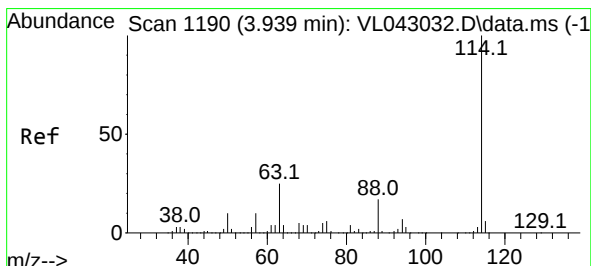
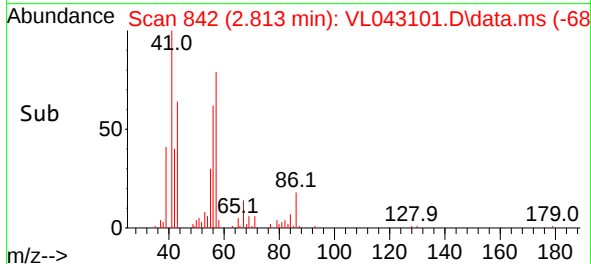
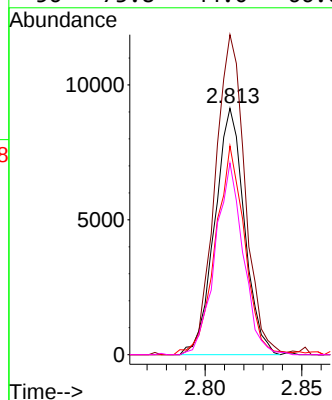
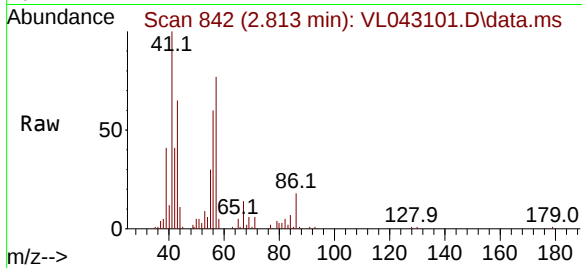




#26
Hexane
Concen: 0.423 ppbv
RT: 2.813 min Scan# 842
Delta R.T. 0.000 min
Lab File: VL043101.D
Acq: 09 Oct 2025 22:58

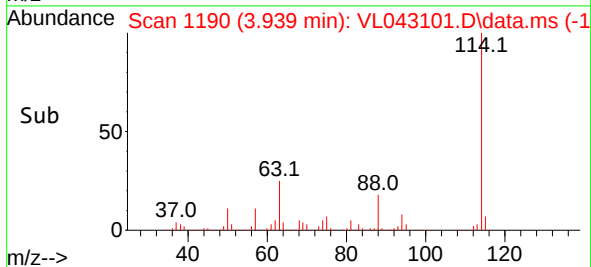
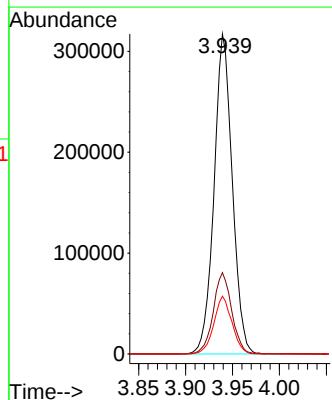
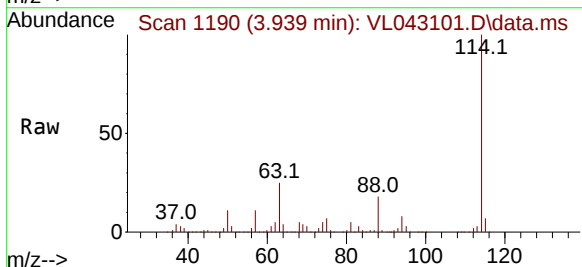
Instrument :
MSVOA_L
ClientSampleId :
SV4DL

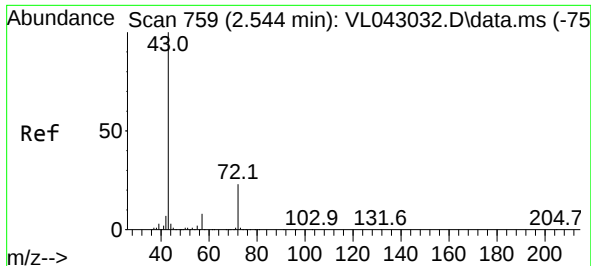
Tgt Ion: 57 Resp: 9710
Ion Ratio Lower Upper
57 100
41 132.4 76.1 114.1#
43 84.3 201.4 302.0#
56 73.8 44.0 66.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.939 min Scan# 1190
Delta R.T. 0.000 min
Lab File: VL043101.D
Acq: 09 Oct 2025 22:58

Tgt Ion: 114 Resp: 427891
Ion Ratio Lower Upper
114 100
63 25.7 19.4 29.2
88 17.9 13.9 20.9

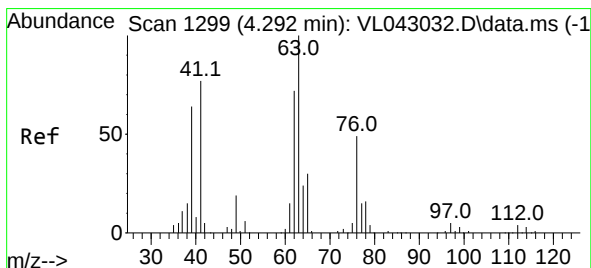
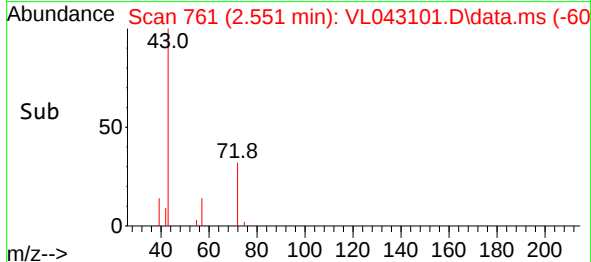
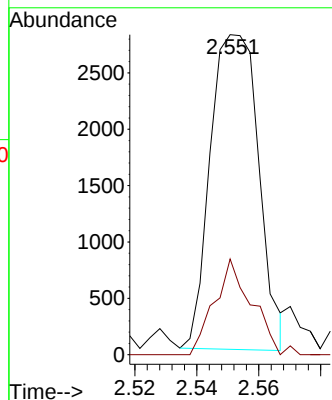
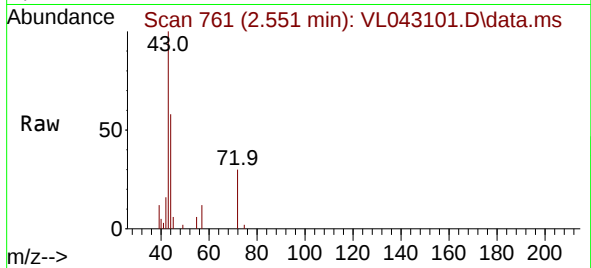




#34
2-Butanone
Concen: 0.104 ppbv
RT: 2.551 min Scan# 71
Delta R.T. 0.006 min
Lab File: VL043101.D
Acq: 09 Oct 2025 22:58

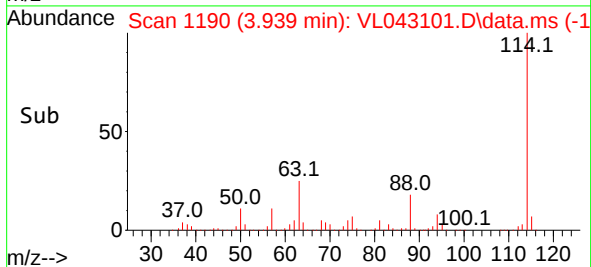
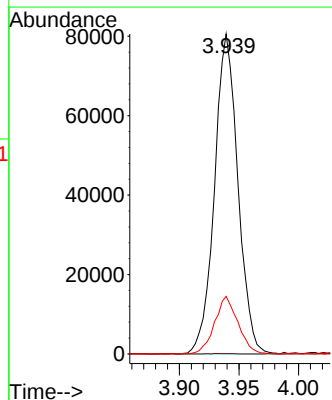
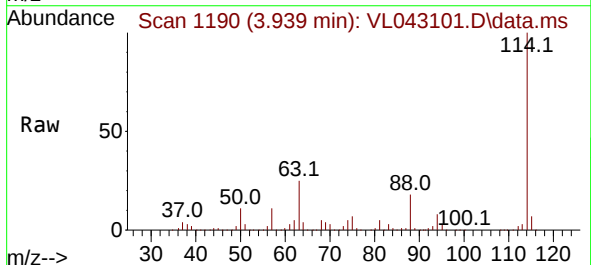
Instrument :
MSVOA_L
ClientSampleId :
SV4DL

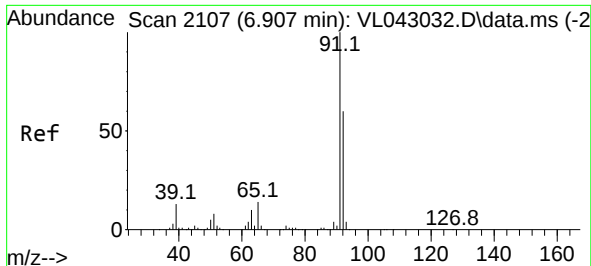
Tgt Ion: 43 Resp: 3031
Ion Ratio Lower Upper
43 100
72 23.7 18.4 27.6



#39
1,2-Dichloropropane
Concen: 7.254 ppbv
RT: 3.939 min Scan# 1190
Delta R.T. -0.353 min
Lab File: VL043101.D
Acq: 09 Oct 2025 22:58

Tgt Ion: 63 Resp: 109927
Ion Ratio Lower Upper
63 100
41 0.1 61.6 92.4#
62 18.0 58.1 87.1#

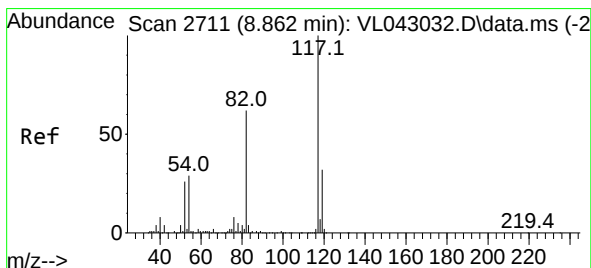
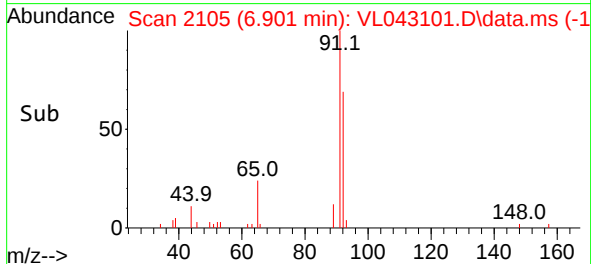
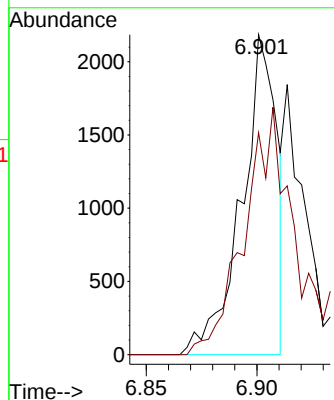
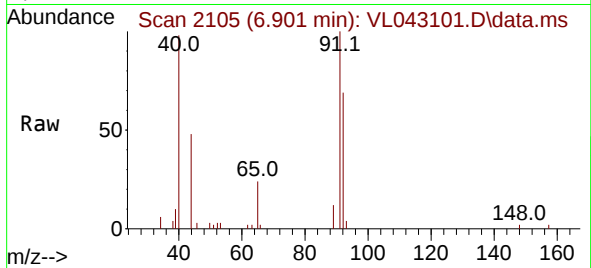




#53
Toluene
Concen: 0.058 ppbv
RT: 6.901 min Scan# 2107
Delta R.T. -0.006 min
Lab File: VL043101.D
Acq: 09 Oct 2025 22:58

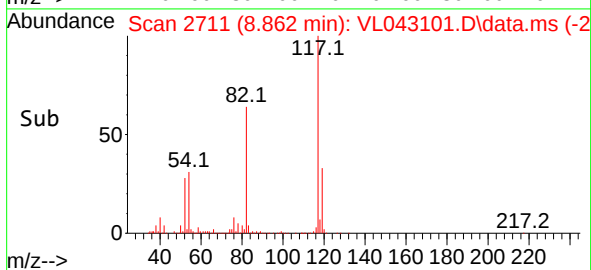
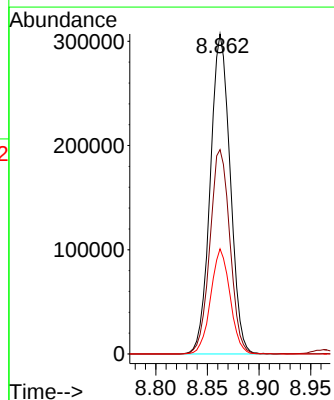
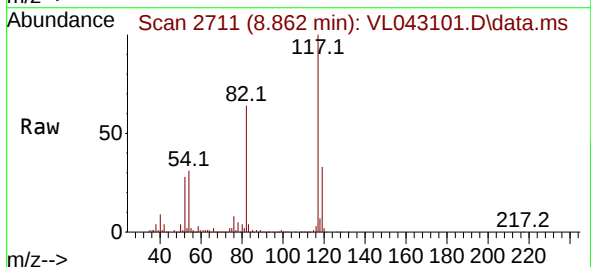
Instrument :
MSVOA_L
ClientSampleId :
SV4DL

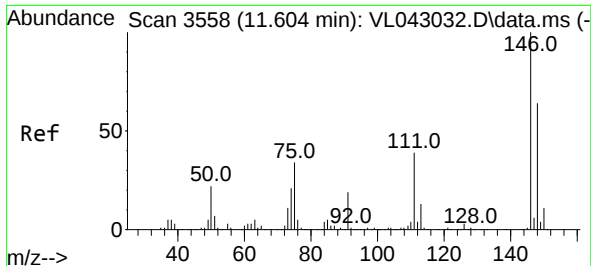
Tgt Ion: 91 Resp: 2405
Ion Ratio Lower Upper
91 100
92 109.7 47.8 71.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.862 min Scan# 2711
Delta R.T. 0.000 min
Lab File: VL043101.D
Acq: 09 Oct 2025 22:58

Tgt Ion: 117 Resp: 411008
Ion Ratio Lower Upper
117 100
82 64.3 53.0 79.6
119 32.0 25.4 38.2

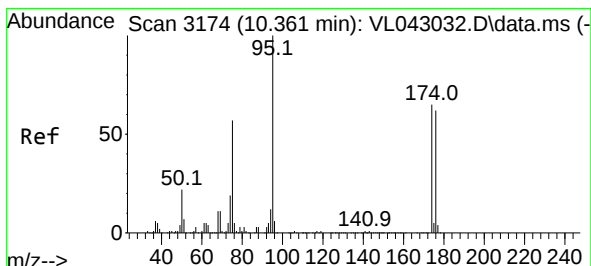
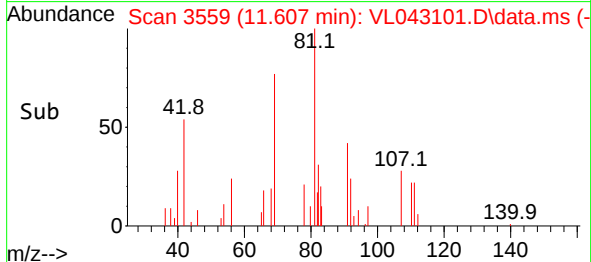
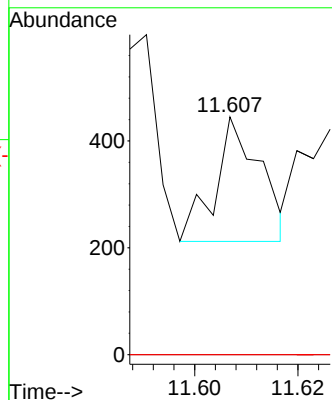
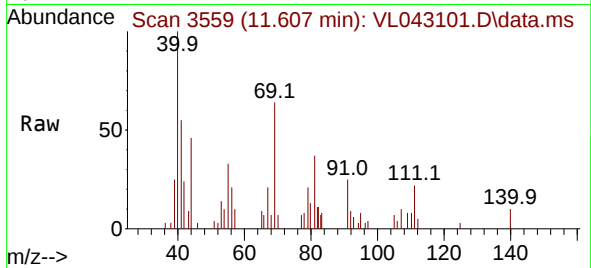




#66
Benzyl Chloride
Concen: 0.050 ppbv
RT: 11.607 min Scan# 3174
Delta R.T. 0.003 min
Lab File: VL043101.D
Acq: 09 Oct 2025 22:58

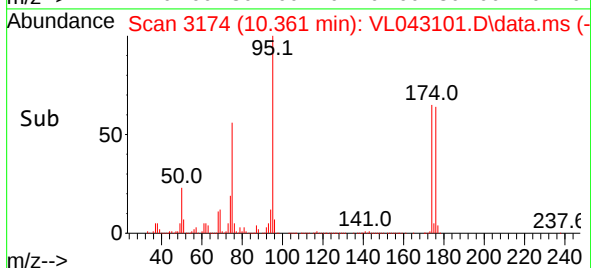
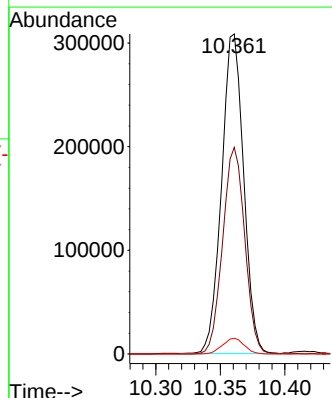
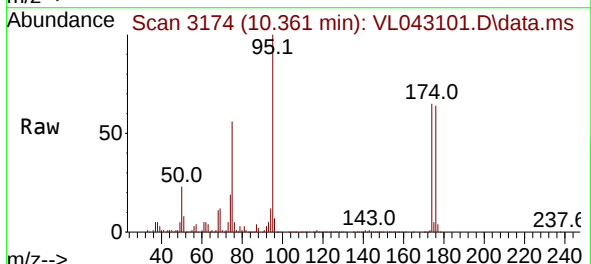
Instrument :
MSVOA_L
ClientSampleId :
SV4DL

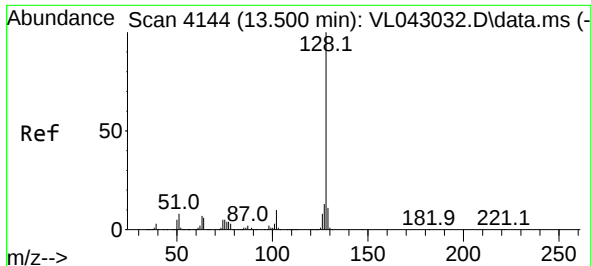
Tgt Ion: 91 Resp: 141
Ion Ratio Lower Upper
91 100
126 0.0 14.2 21.4#
128 0.0 4.8 7.2#



#68
1-Bromo-4-Fluorobenzene
Concen: 12.365 ppbv
RT: 10.361 min Scan# 3174
Delta R.T. 0.000 min
Lab File: VL043101.D
Acq: 09 Oct 2025 22:58

Tgt Ion: 95 Resp: 366115
Ion Ratio Lower Upper
95 100
174 64.8 52.3 78.5
175 4.9 3.8 5.8

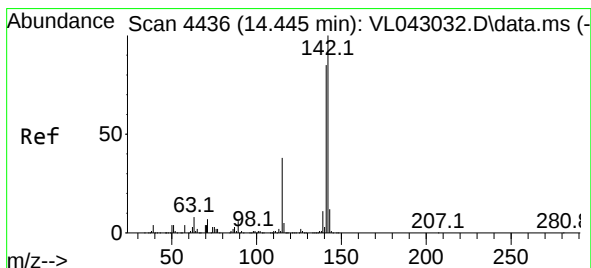
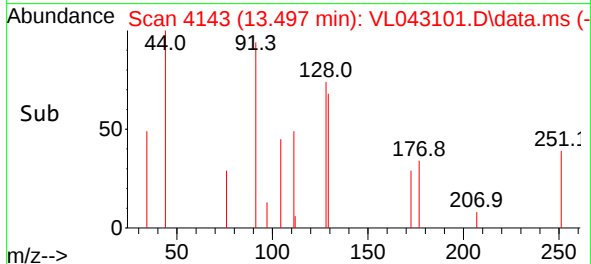
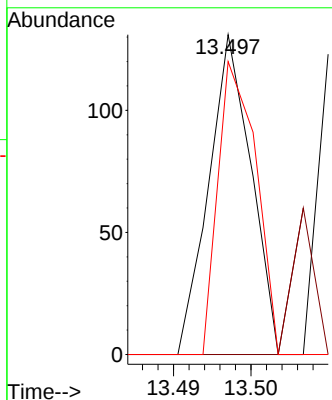
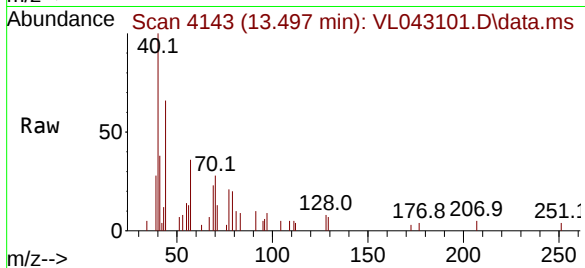




#79
Naphthalene
Concen: 0.235 ppbv
RT: 13.497 min Scan# 4144
Delta R.T. -0.003 min
Lab File: VL043101.D
Acq: 09 Oct 2025 22:58

Instrument :
MSVOA_L
ClientSampleId :
SV4DL

Tgt Ion:128 Resp: 50
Ion Ratio Lower Upper
128 100
127 0.0 10.6 16.0#
129 91.6 8.8 13.2#



#80
Naphthalene,2-methyl-
Concen: 0.665 ppbv
RT: 14.465 min Scan# 4442
Delta R.T. 0.020 min
Lab File: VL043101.D
Acq: 09 Oct 2025 22:58

Tgt Ion:142 Resp: 68
Ion Ratio Lower Upper
142 100
141 0.0 66.6 100.0#
115 82.4 30.1 45.1#

