

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042979.D
 Acq On : 23 Sep 2025 04:08
 Operator : SY/MD
 Sample : Q3132-01DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 151-1A-1DL

Quant Time: Sep 24 01:15:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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	2.790	49	150287	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	424605	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.885	117	372157	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	285913	10.292	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.900%

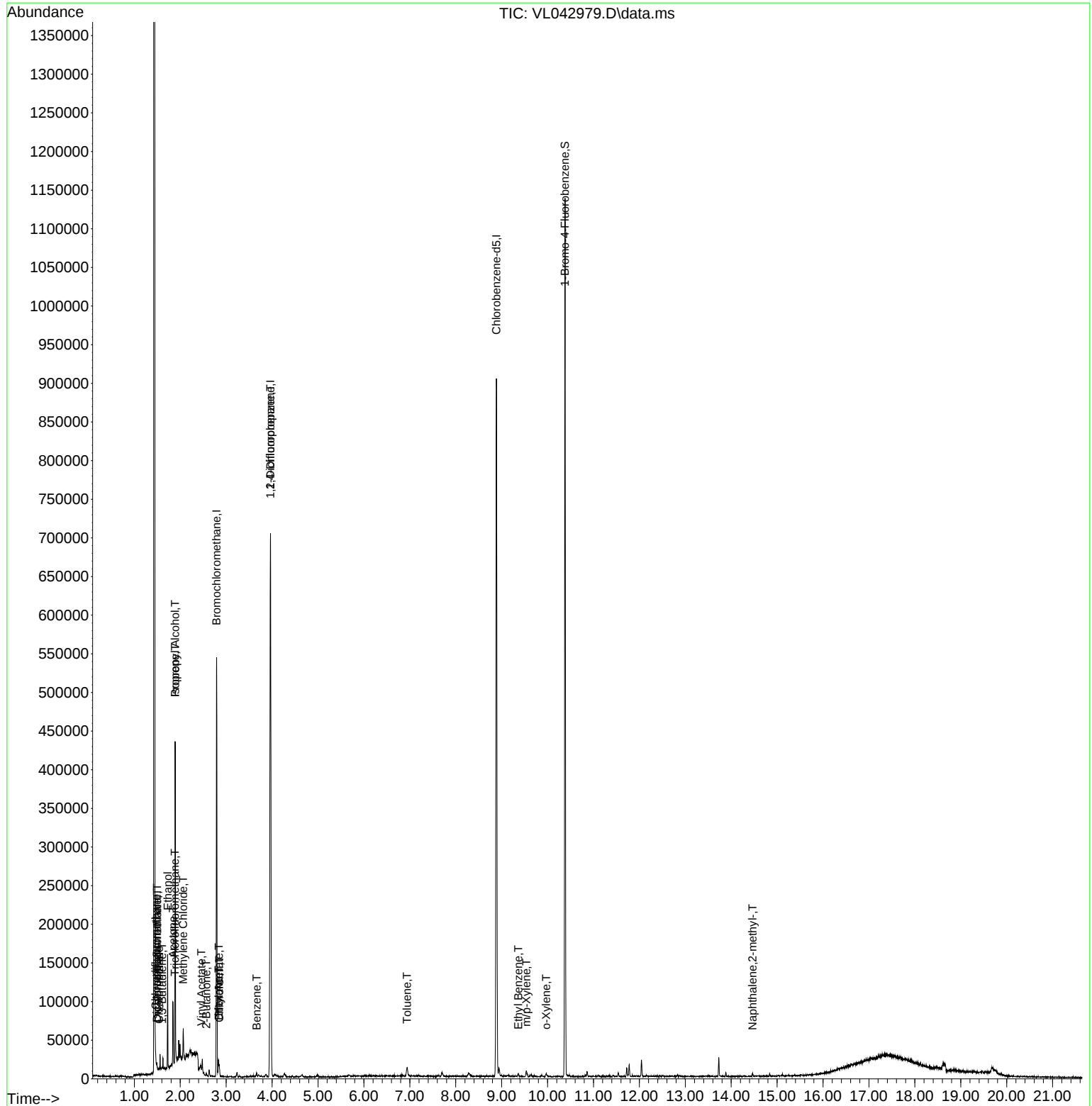
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	997	0.049	ppbv #	84
3) Chlorodifluoromethane	1.466	51	2826	0.112	ppbv #	79
4) Chloromethane	1.534	50	672	0.073	ppbv	91
8) Dichlorotetrafluoroethane	1.499	85	997	0.058	ppbv #	19
9) Propene	1.887	41	15680	1.431	ppbv	92
11) Trichlorofluoromethane	1.881	101	1084	0.056	ppbv	91
13) Ethanol	1.725	45	50434	47.435	ppbv	95
15) Acetone	1.839	43	38669	1.975	ppbv	92
16) 1,3-Butadiene	1.602	39	520	0.056	ppbv #	11
19) Isopropyl Alcohol	1.887	45	178860	15.200	ppbv #	38
20) Methylene Chloride	2.065	84	4978	0.196	ppbv	96
23) Vinyl Acetate	2.460	43	1330	0.048	ppbv #	1
25) Ethyl Acetate	2.842	43	5080	0.103	ppbv #	75
26) Hexane	2.832	57	4418	0.196	ppbv #	72
29) Chloroform	2.852	83	3102	0.105	ppbv	84
34) 2-Butanone	2.567	43	2374	0.080	ppbv	96
36) Benzene	3.664	78	2312	0.058	ppbv #	80
39) 1,2-Dichloropropane	3.962	63	108310	7.441	ppbv #	23
53) Toluene	6.940	91	8013	0.170	ppbv	95
58) Ethyl Benzene	9.361	91	2099	0.034	ppbv #	84
59) m/p-Xylene	9.539	91	3140	0.065	ppbv #	100
60) o-Xylene	9.969	91	1713	0.036	ppbv	95
80) Naphthalene,2-methyl-	14.468	142	1235	0.084	ppbv #	89

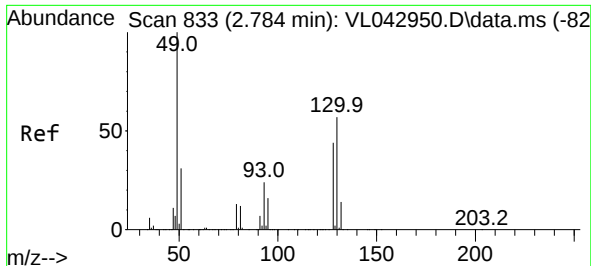
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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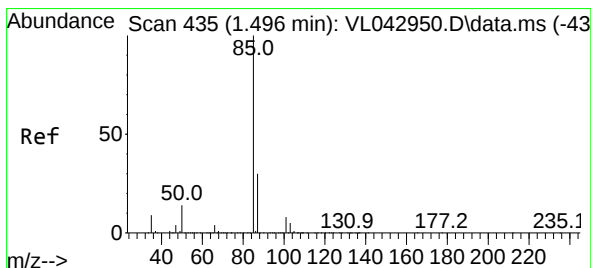
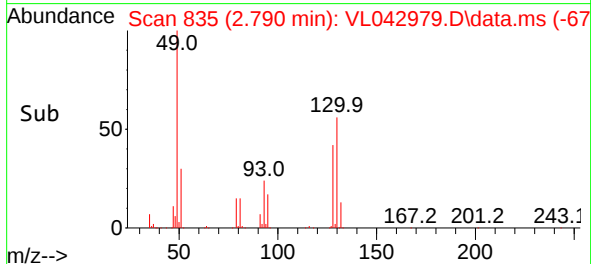
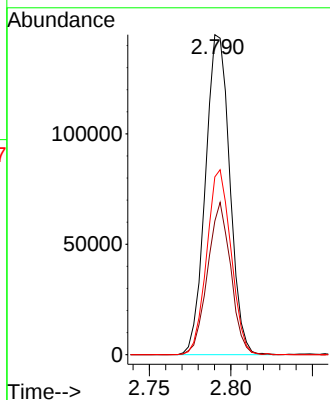
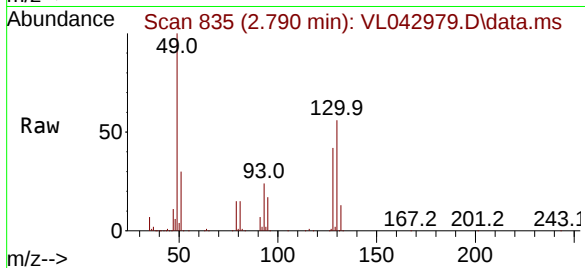




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

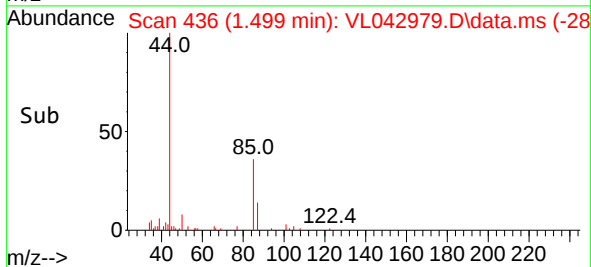
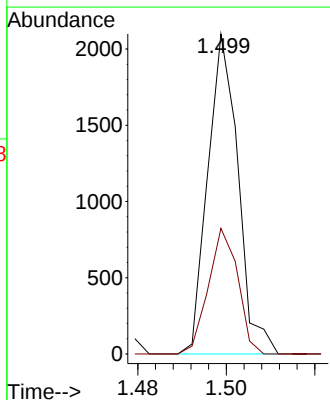
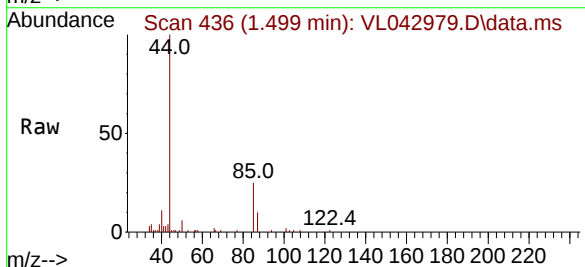
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1DL

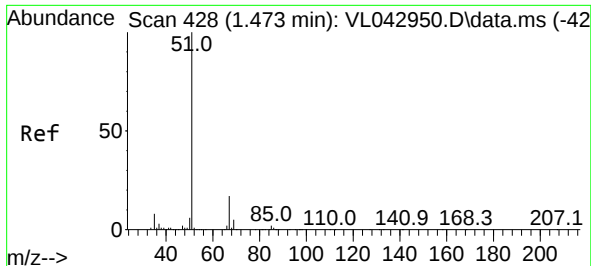
Tgt Ion: 49 Resp: 150287
Ion Ratio Lower Upper
49 100
128 45.4 22.9 68.8
130 57.6 29.1 87.3



#2
Dichlorodifluoromethane
Concen: 0.049 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

Tgt Ion: 85 Resp: 997
Ion Ratio Lower Upper
85 100
87 39.3 24.3 36.5#

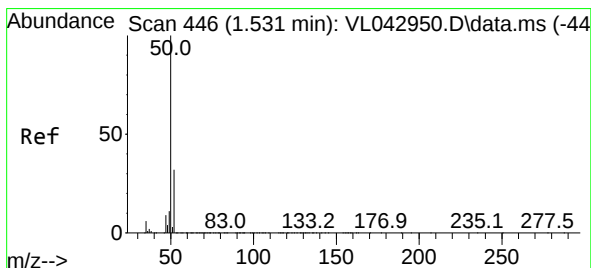
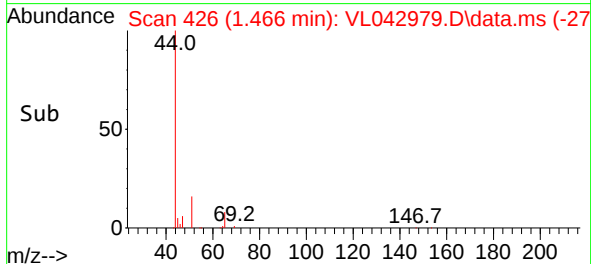
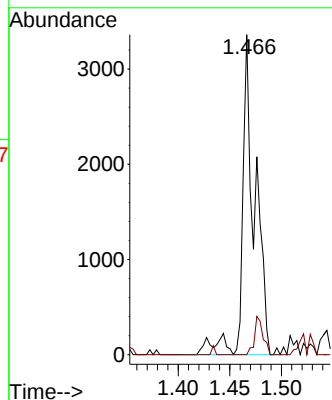
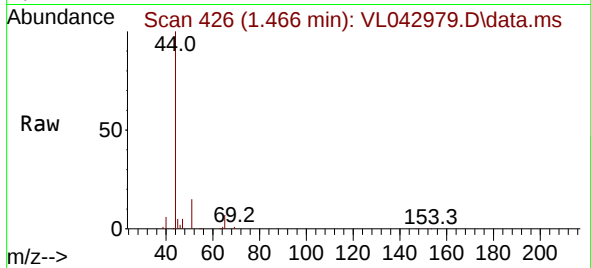




#3
Chlorodifluoromethane
Concen: 0.112 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.007 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

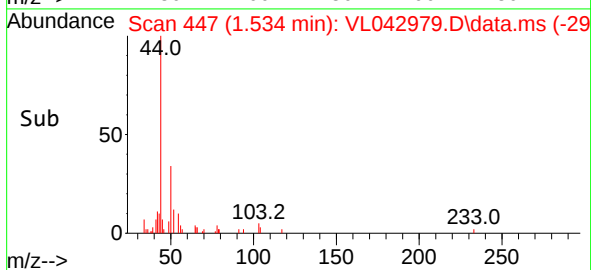
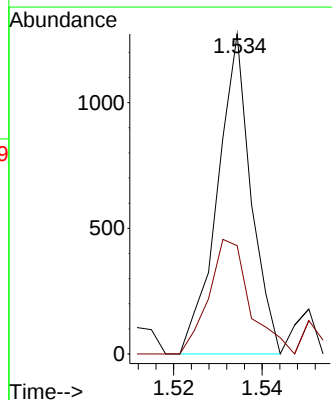
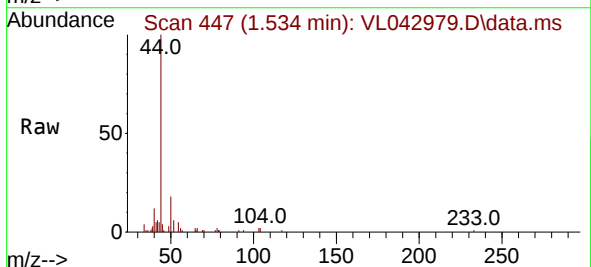
Instrument :
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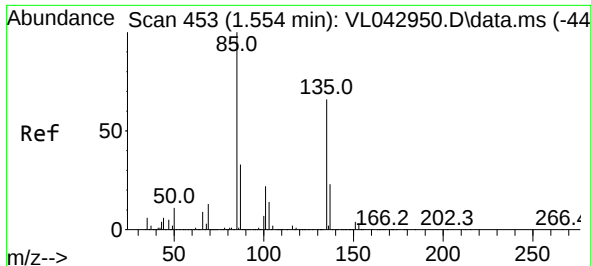
Tgt Ion: 51 Resp: 2826
Ion Ratio Lower Upper
51 100
67 8.2 13.8 20.8#



#4
Chloromethane
Concen: 0.073 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

Tgt Ion: 50 Resp: 672
Ion Ratio Lower Upper
50 100
52 37.4 25.9 38.9

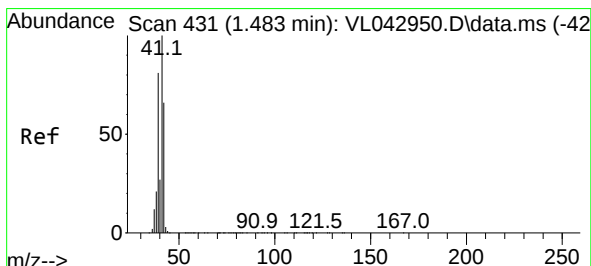
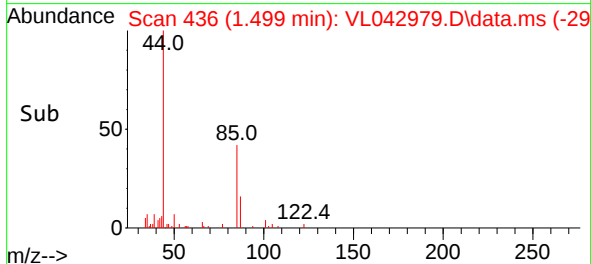
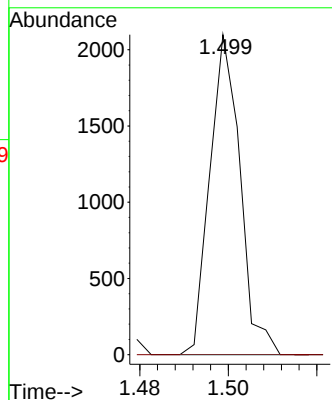
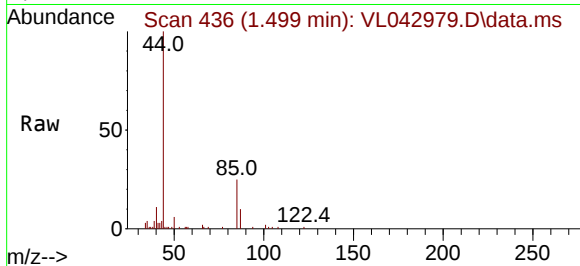




#8
 Dichlorotetrafluoroethane
 Concen: 0.058 ppbv
 RT: 1.499 min Scan# 41
 Delta R.T. -0.055 min
 Lab File: VL042979.D
 Acq: 23 Sep 2025 04:08

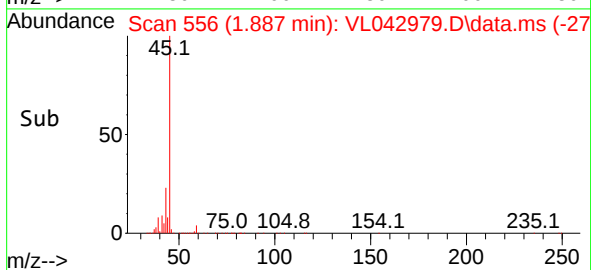
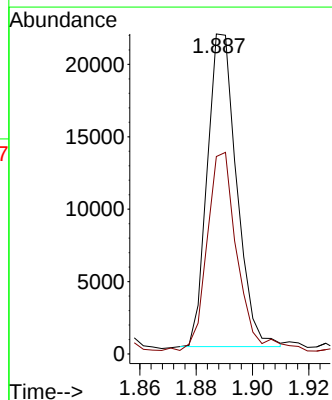
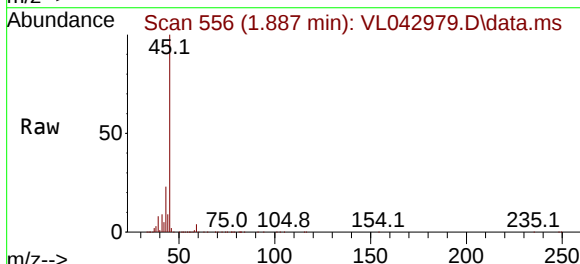
Instrument :
 MSVOA_L
 ClientSampleId :
 151-1A-1DL

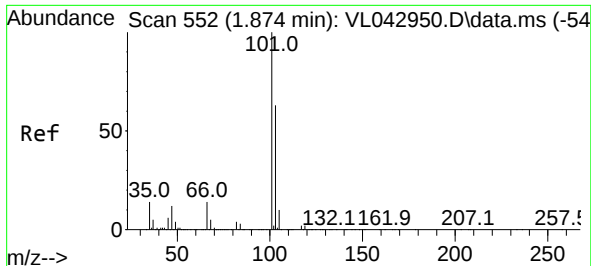
Tgt Ion: 85 Resp: 997
 Ion Ratio Lower Upper
 85 100
 135 0.0 49.7 74.5#



#9
 Propene
 Concen: 1.431 ppbv
 RT: 1.887 min Scan# 556
 Delta R.T. 0.404 min
 Lab File: VL042979.D
 Acq: 23 Sep 2025 04:08

Tgt Ion: 41 Resp: 15680
 Ion Ratio Lower Upper
 41 100
 42 64.9 57.4 86.2

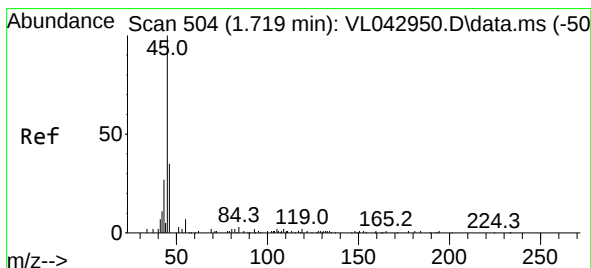
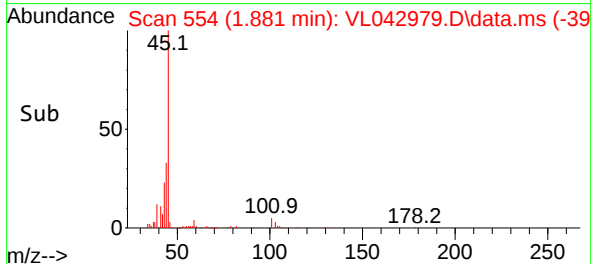
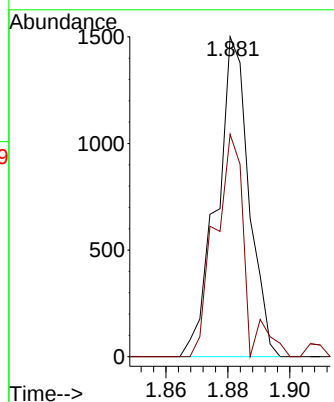
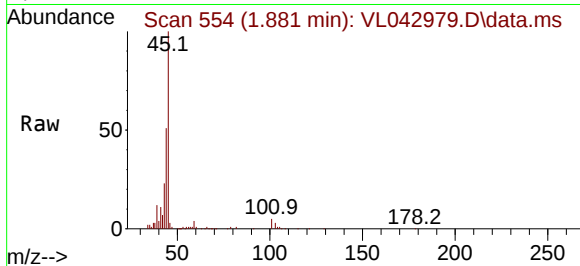




#11
Trichlorofluoromethane
Concen: 0.056 ppbv
RT: 1.881 min Scan# 51
Delta R.T. 0.006 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

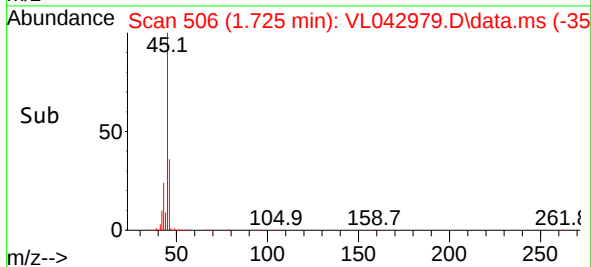
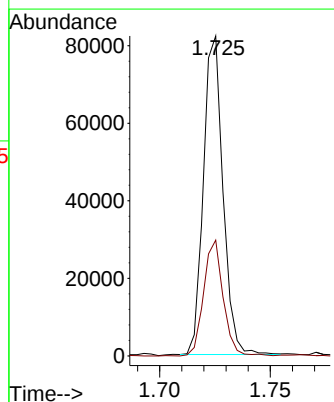
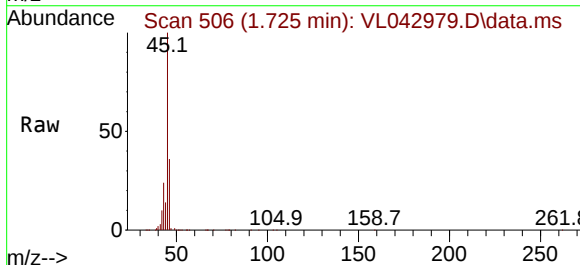
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1DL

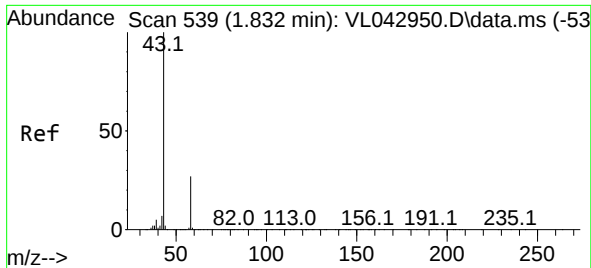
Tgt Ion:101 Resp: 1084
Ion Ratio Lower Upper
101 100
103 69.5 50.1 75.1



#13
Ethanol
Concen: 47.435 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

Tgt Ion: 45 Resp: 50434
Ion Ratio Lower Upper
45 100
46 37.4 16.2 64.6





#15

Acetone

Concen: 1.975 ppbv

RT: 1.839 min Scan# 54

Delta R.T. 0.006 min

Lab File: VL042979.D

Acq: 23 Sep 2025 04:08

Instrument :

MSVOA_L

ClientSampleId :

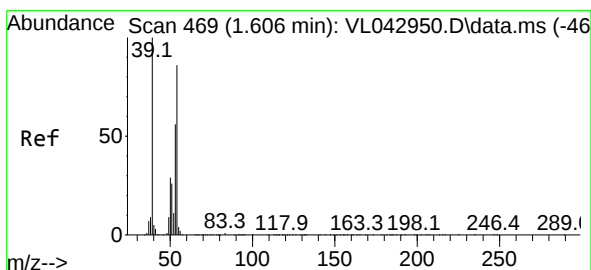
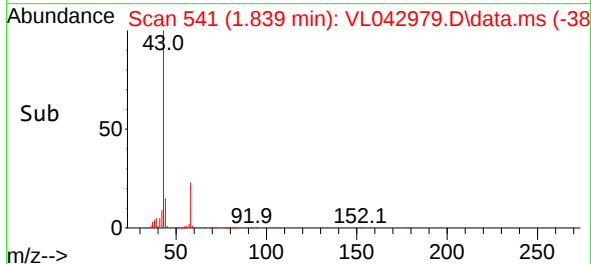
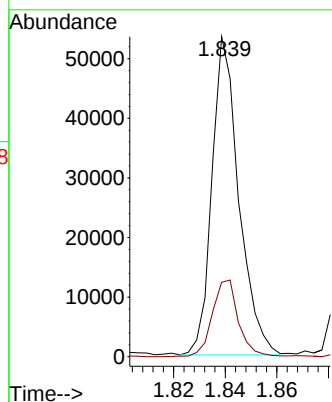
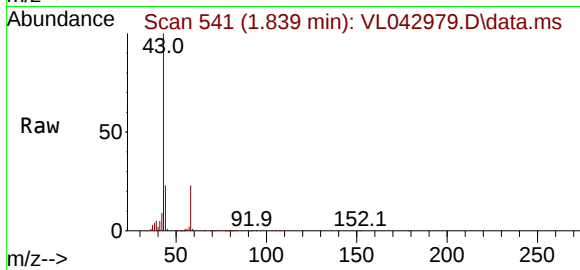
151-1A-1DL

Tgt Ion: 43 Resp: 38669

Ion Ratio Lower Upper

43 100

58 23.7 22.3 33.5



#16

1,3-Butadiene

Concen: 0.056 ppbv

RT: 1.602 min Scan# 468

Delta R.T. -0.003 min

Lab File: VL042979.D

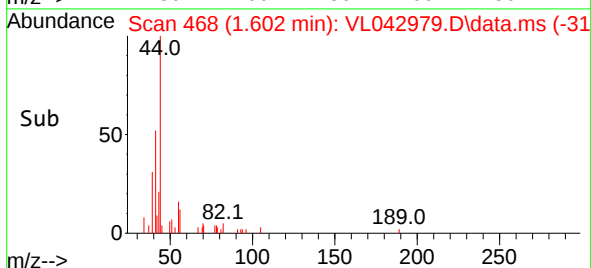
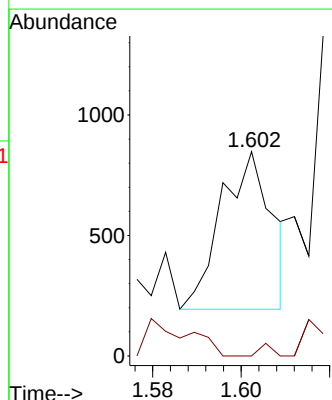
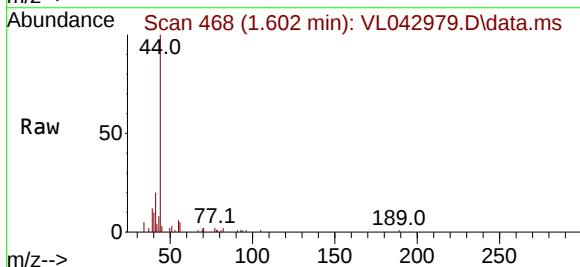
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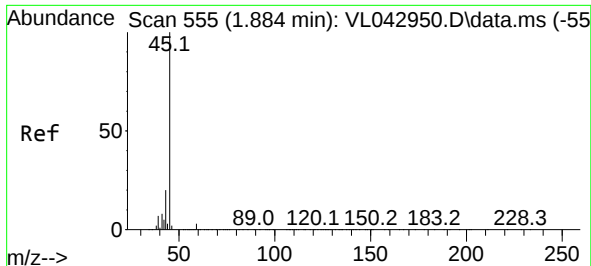
Tgt Ion: 39 Resp: 520

Ion Ratio Lower Upper

39 100

54 0.0 60.8 91.2#

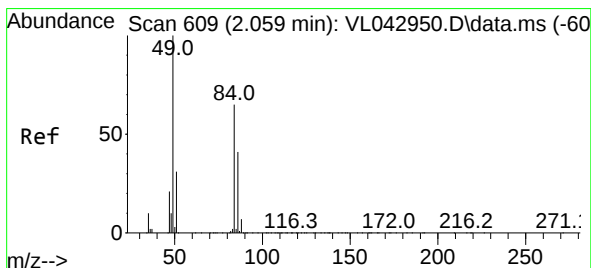
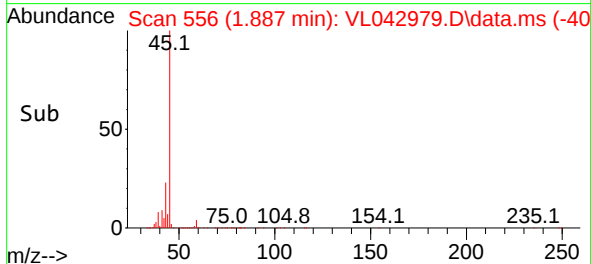
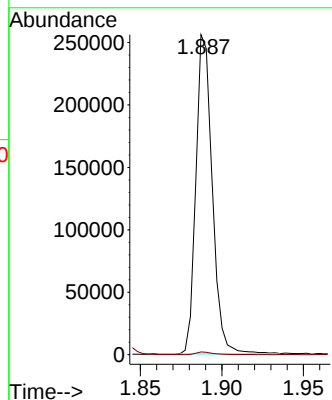
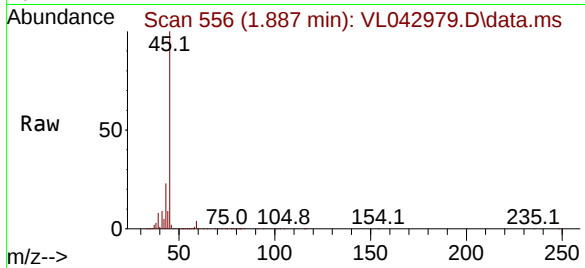




#19
Isopropyl Alcohol
Concen: 15.200 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

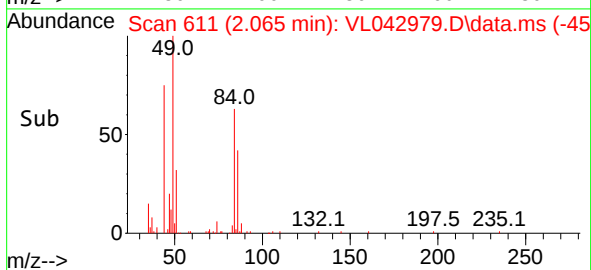
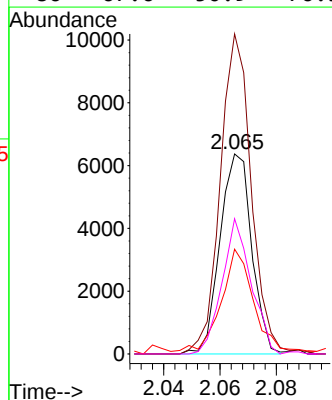
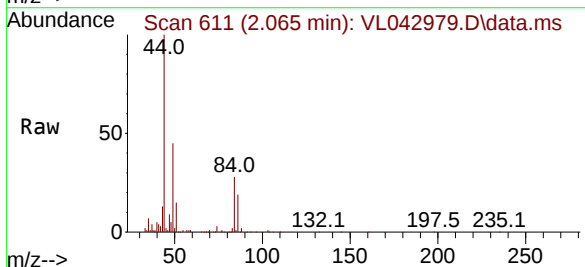
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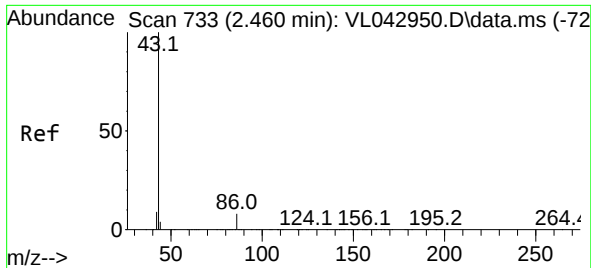
Tgt Ion: 45 Resp: 178860
Ion Ratio Lower Upper
45 100
58 0.9 31.0 46.6#



#20
Methylene Chloride
Concen: 0.196 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

Tgt Ion: 84 Resp: 4978
Ion Ratio Lower Upper
84 100
49 160.0 124.1 186.1
51 50.6 39.8 59.8
86 67.6 50.9 76.3

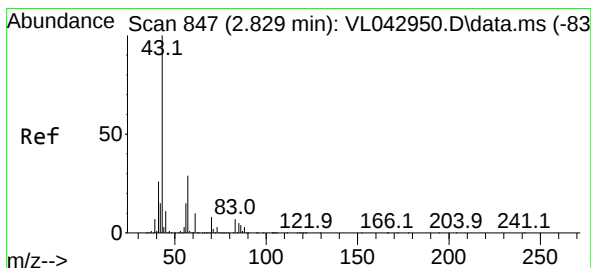
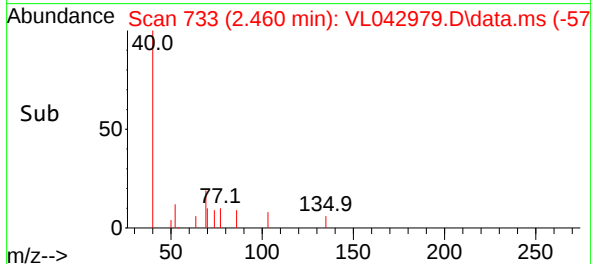
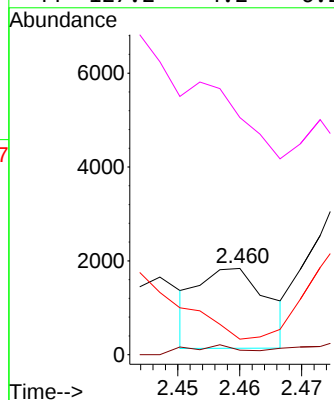
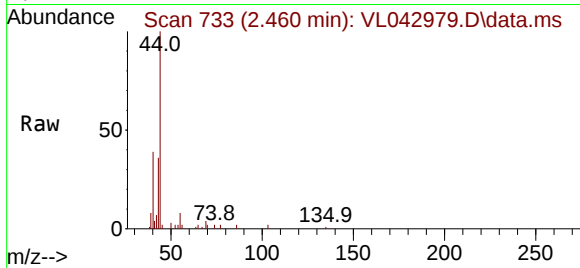




#23
 Vinyl Acetate
 Concen: 0.048 ppbv
 RT: 2.460 min Scan# 71
 Delta R.T. -0.000 min
 Lab File: VL042979.D
 Acq: 23 Sep 2025 04:08

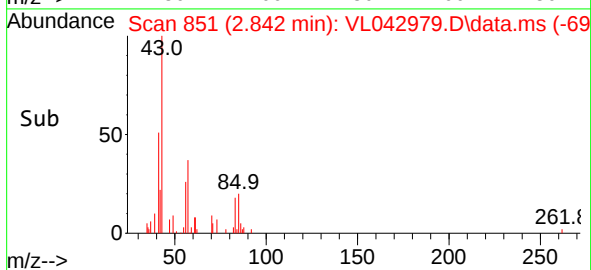
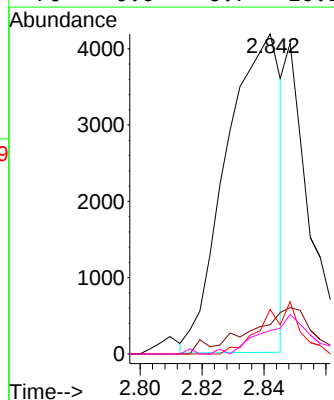
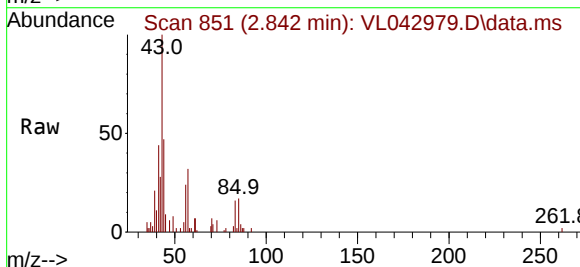
Instrument :
 MSVOA_1
 ClientSampleId :
 151-1A-1DL

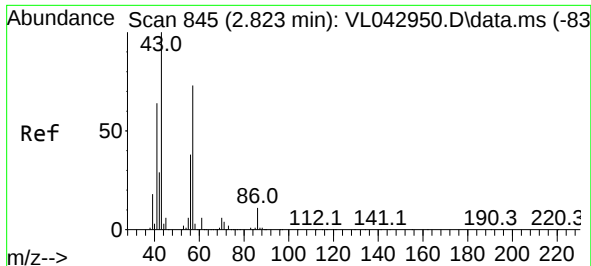
Tgt Ion:	43	Resp:	1330
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.2	9.2#
42	0.0	7.4	11.0#
44	127.2	4.2	6.2#



#25
 Ethyl Acetate
 Concen: 0.103 ppbv
 RT: 2.842 min Scan# 851
 Delta R.T. 0.013 min
 Lab File: VL042979.D
 Acq: 23 Sep 2025 04:08

Tgt Ion:	43	Resp:	5080
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.7	11.5#
61	0.0	7.1	10.7#
70	0.0	6.7	10.1#

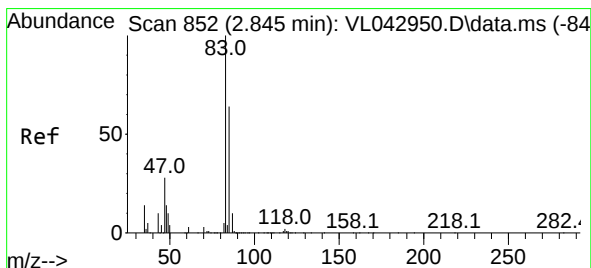
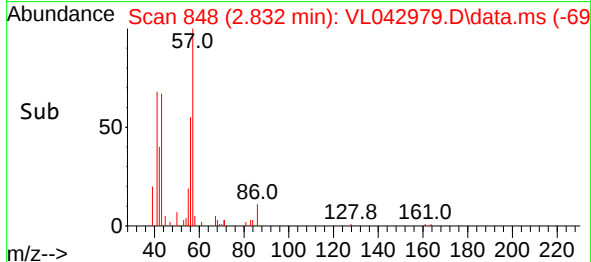
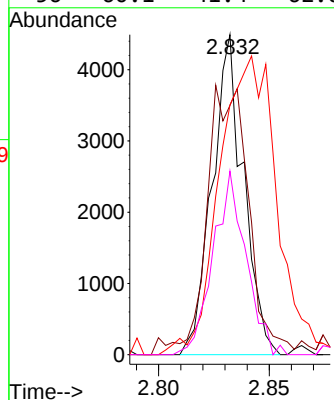
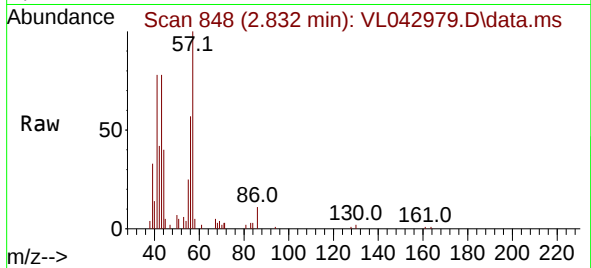




#26
Hexane
Concen: 0.196 ppbv
RT: 2.832 min Scan# 84
Delta R.T. 0.010 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

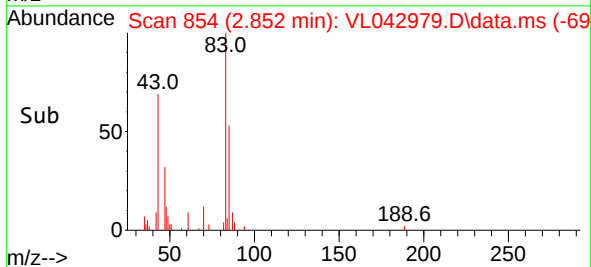
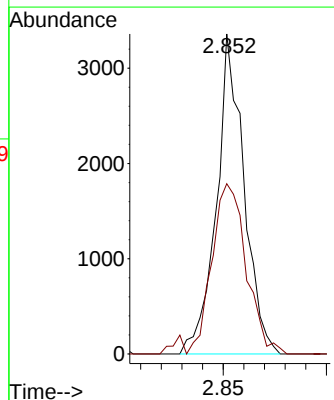
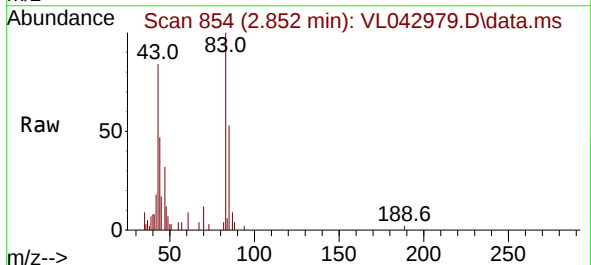
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1DL

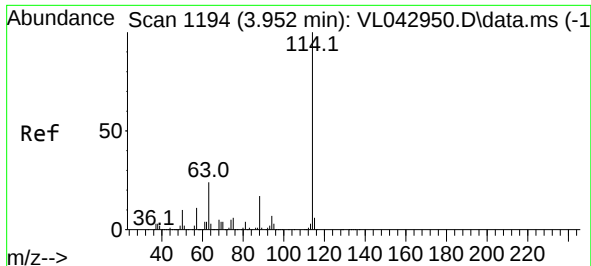
Tgt Ion: 57 Resp: 4418
Ion Ratio Lower Upper
57 100
41 115.3 71.7 107.5#
43 174.1 180.8 271.2#
56 60.1 41.4 62.0



#29
Chloroform
Concen: 0.105 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.006 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

Tgt Ion: 83 Resp: 3102
Ion Ratio Lower Upper
83 100
85 51.4 51.2 76.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.013 min

Lab File: VL042979.D

Acq: 23 Sep 2025 04:08

Instrument :

MSVOA_L

ClientSampleId :

151-1A-1DL

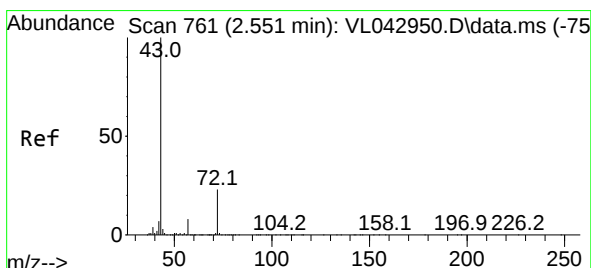
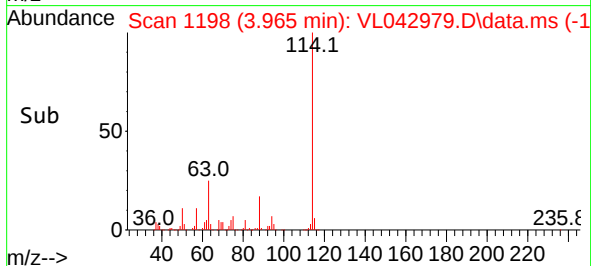
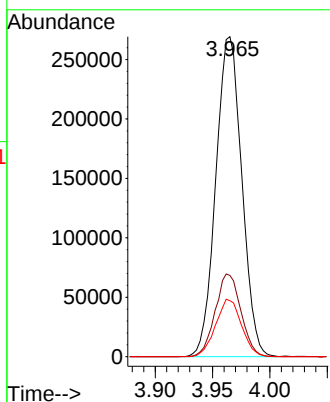
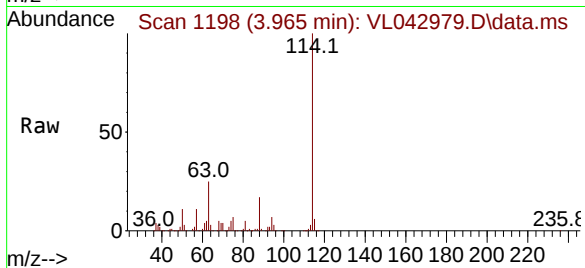
Tgt Ion:114 Resp: 424605

Ion Ratio Lower Upper

114 100

63 25.5 19.4 29.2

88 17.9 14.2 21.2



#34

2-Butanone

Concen: 0.080 ppbv

RT: 2.567 min Scan# 766

Delta R.T. 0.016 min

Lab File: VL042979.D

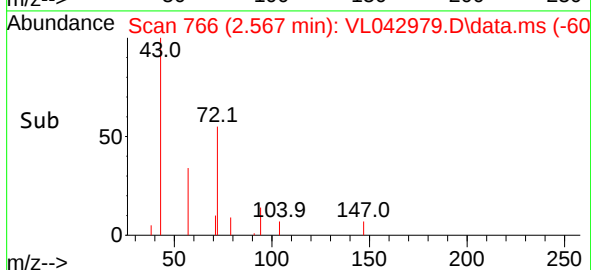
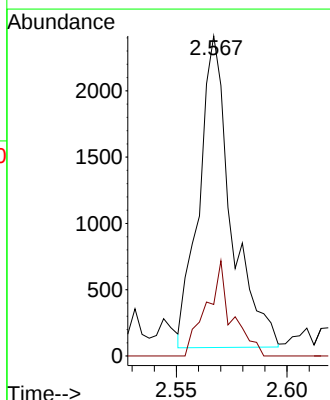
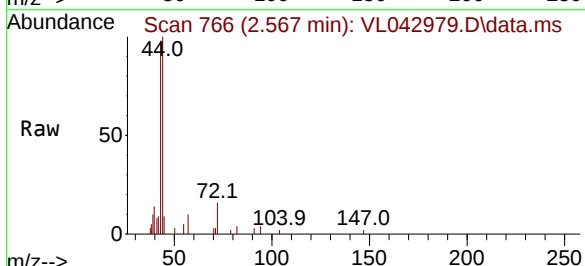
Acq: 23 Sep 2025 04:08

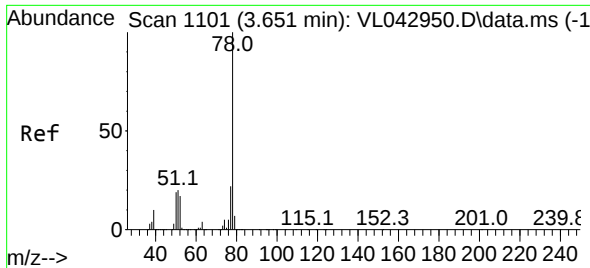
Tgt Ion: 43 Resp: 2374

Ion Ratio Lower Upper

43 100

72 24.0 17.7 26.5

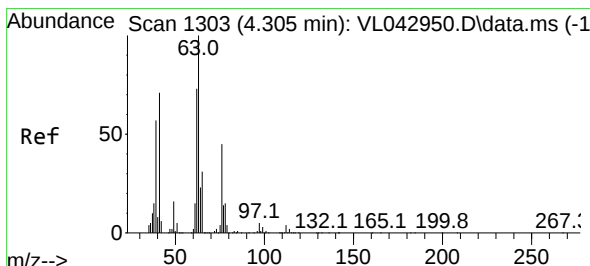
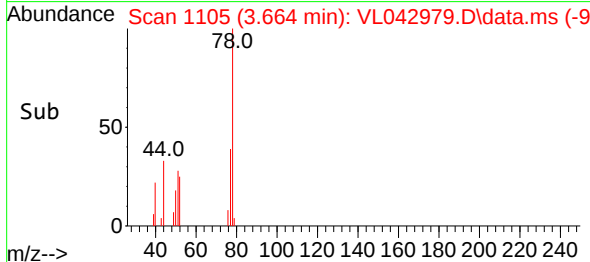
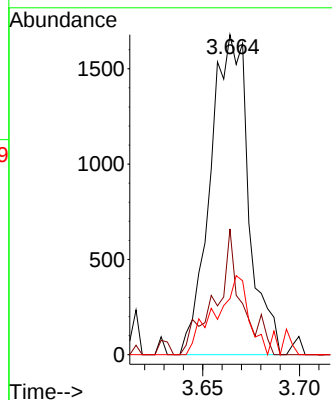
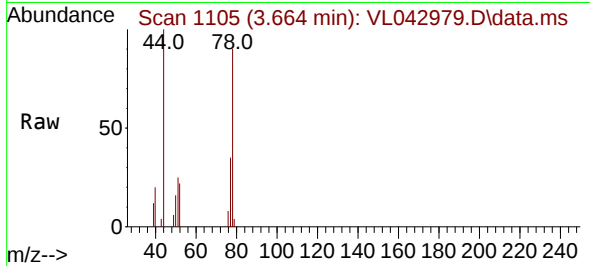




#36
Benzene
Concen: 0.058 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.013 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

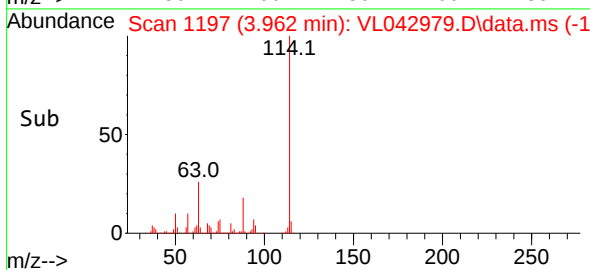
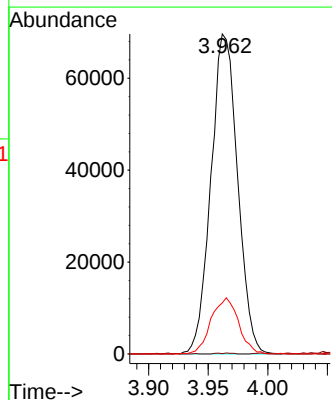
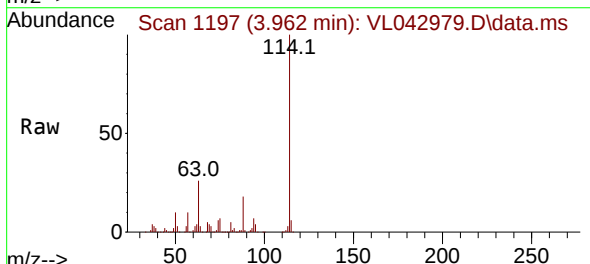
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1DL

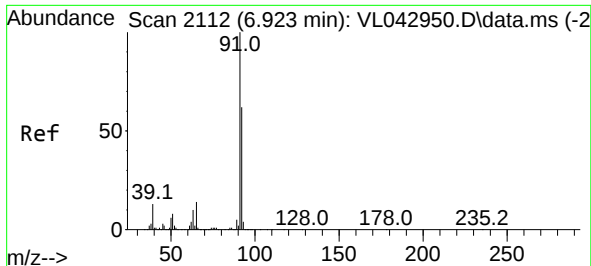
Tgt Ion: 78 Resp: 2312
Ion Ratio Lower Upper
78 100
77 37.8 17.8 26.6#
50 16.8 15.0 22.4



#39
1,2-Dichloropropane
Concen: 7.441 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.343 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

Tgt Ion: 63 Resp: 108310
Ion Ratio Lower Upper
63 100
41 0.1 57.5 86.3#
62 15.9 58.5 87.7#





#53

Toluene

Concen: 0.170 ppbv

RT: 6.940 min Scan# 2112

Delta R.T. 0.016 min

Lab File: VL042979.D

Acq: 23 Sep 2025 04:08

Instrument :

MSVOA_L

ClientSampleId :

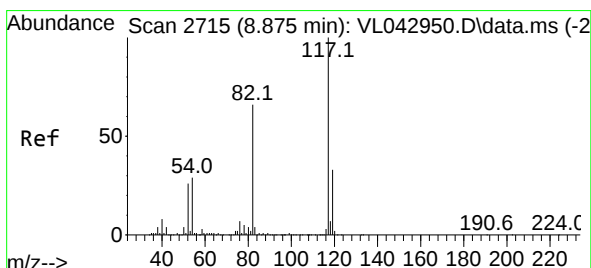
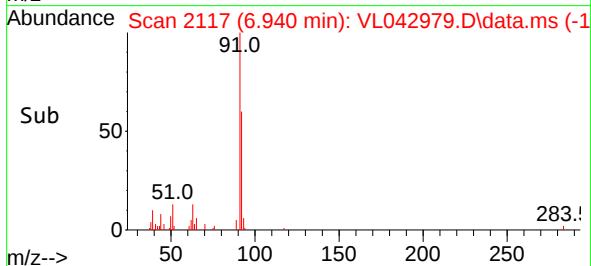
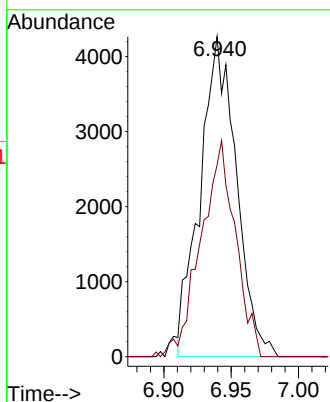
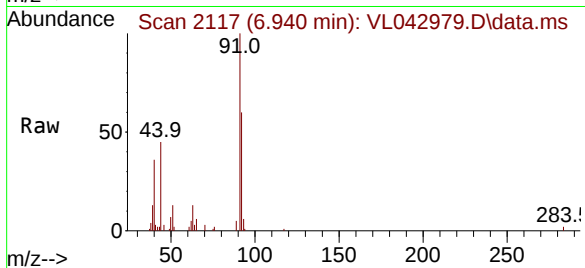
151-1A-1DL

Tgt Ion: 91 Resp: 8013

Ion Ratio Lower Upper

91 100

92 64.0 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: VL042979.D

Acq: 23 Sep 2025 04:08

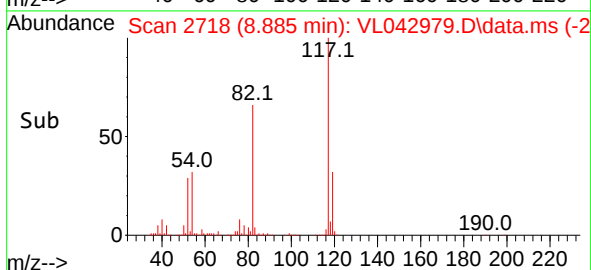
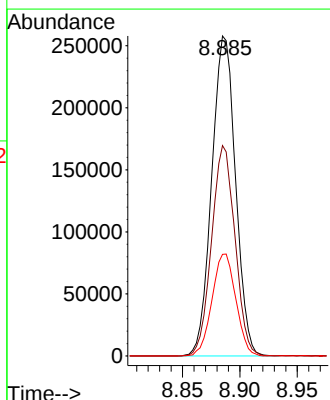
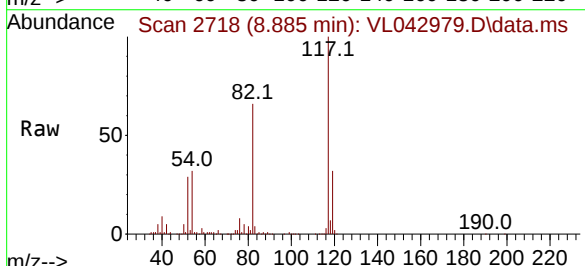
Tgt Ion: 117 Resp: 372157

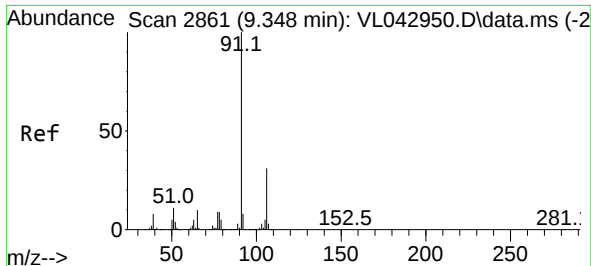
Ion Ratio Lower Upper

117 100

82 64.7 52.8 79.2

119 31.9 26.5 39.7

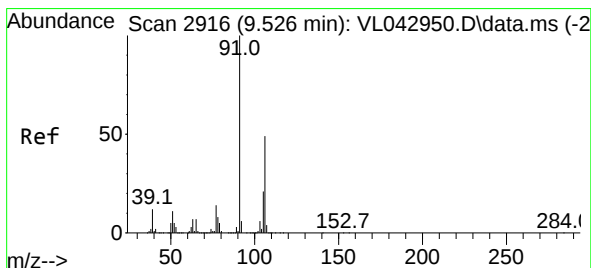
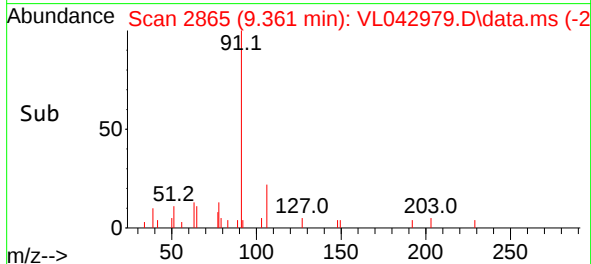
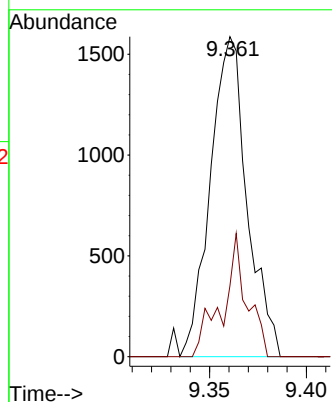
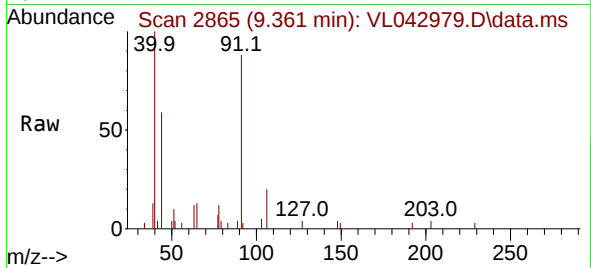




#58
Ethyl Benzene
Concen: 0.034 ppbv
RT: 9.361 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

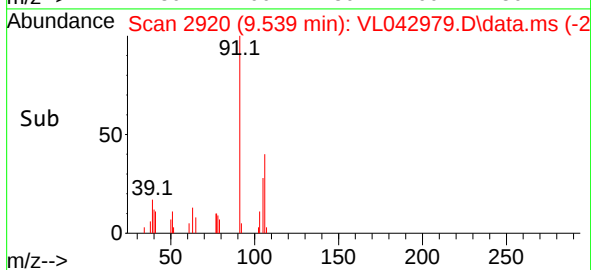
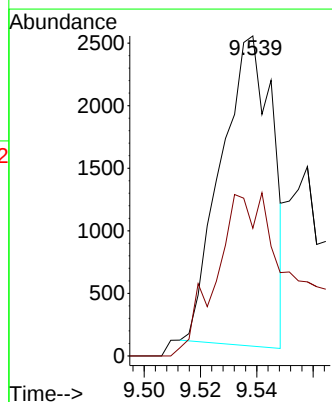
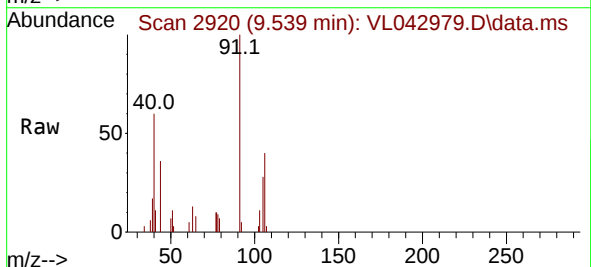
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1DL

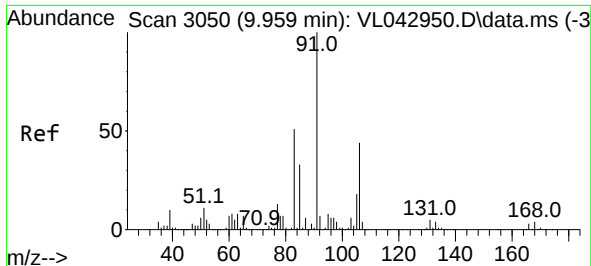
Tgt Ion: 91 Resp: 2099
Ion Ratio Lower Upper
91 100
106 22.2 24.6 37.0#



#59
m/p-Xylene
Concen: 0.065 ppbv
RT: 9.539 min Scan# 2920
Delta R.T. 0.013 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

Tgt Ion: 91 Resp: 3140
Ion Ratio Lower Upper
91 100
106 79.7 0.0 0.0#

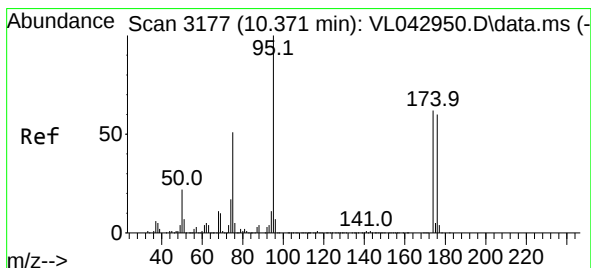
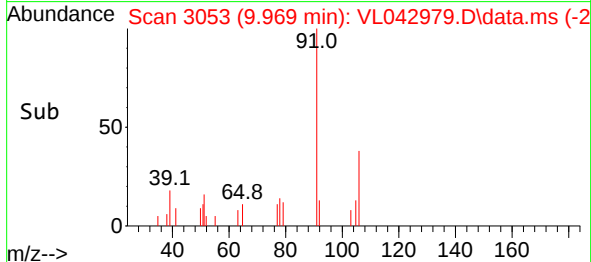
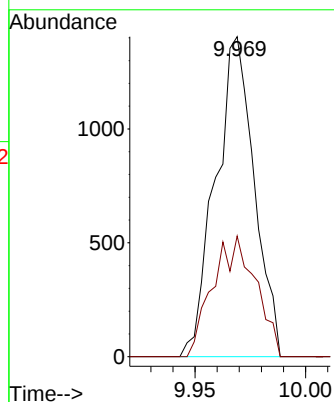
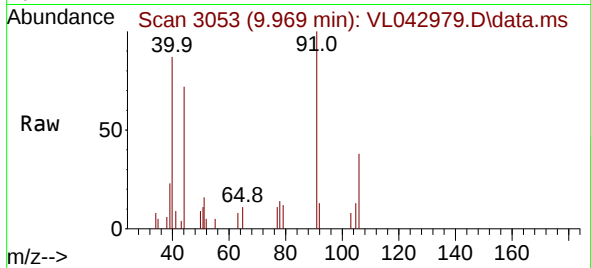




#60
o-Xylene
Concen: 0.036 ppbv
RT: 9.969 min Scan# 3050
Delta R.T. 0.010 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

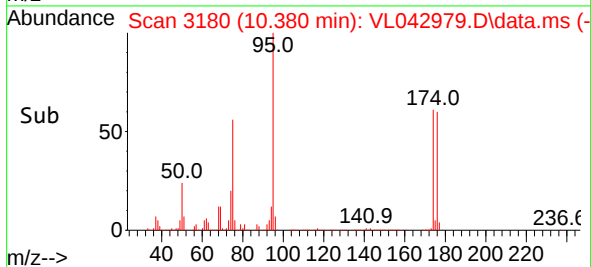
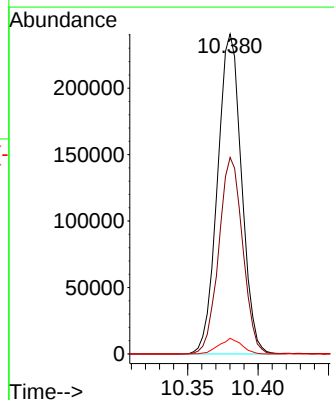
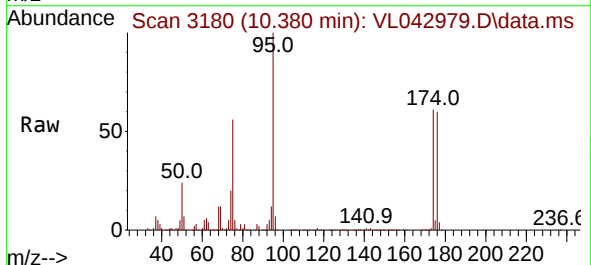
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1DL

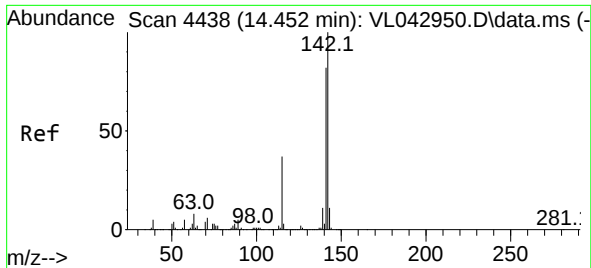
Tgt Ion: 91 Resp: 1713
Ion Ratio Lower Upper
91 100
106 41.7 22.4 67.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.292 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.010 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

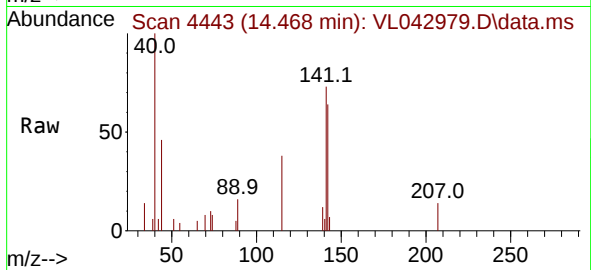
Tgt Ion: 95 Resp: 285913
Ion Ratio Lower Upper
95 100
174 61.3 51.4 77.2
175 4.6 4.0 6.0





#80
 Naphthalene, 2-methyl-
 Concen: 0.084 ppbv
 RT: 14.468 min Scan# 44
 Delta R.T. 0.016 min
 Lab File: VL042979.D
 Acq: 23 Sep 2025 04:08

Instrument :
 MSVOA_L
 ClientSampleId :
 151-1A-1DL



Tgt Ion:	142	Resp:	1235
Ion	Ratio	Lower	Upper
142	100		
141	87.6	65.1	97.7
115	48.6	28.9	43.3

