

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042971.D
 Acq On : 22 Sep 2025 23:23
 Operator : SY/MD
 Sample : Q3130-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 131-1A-2DL

Quant Time: Sep 23 02:58:08 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)

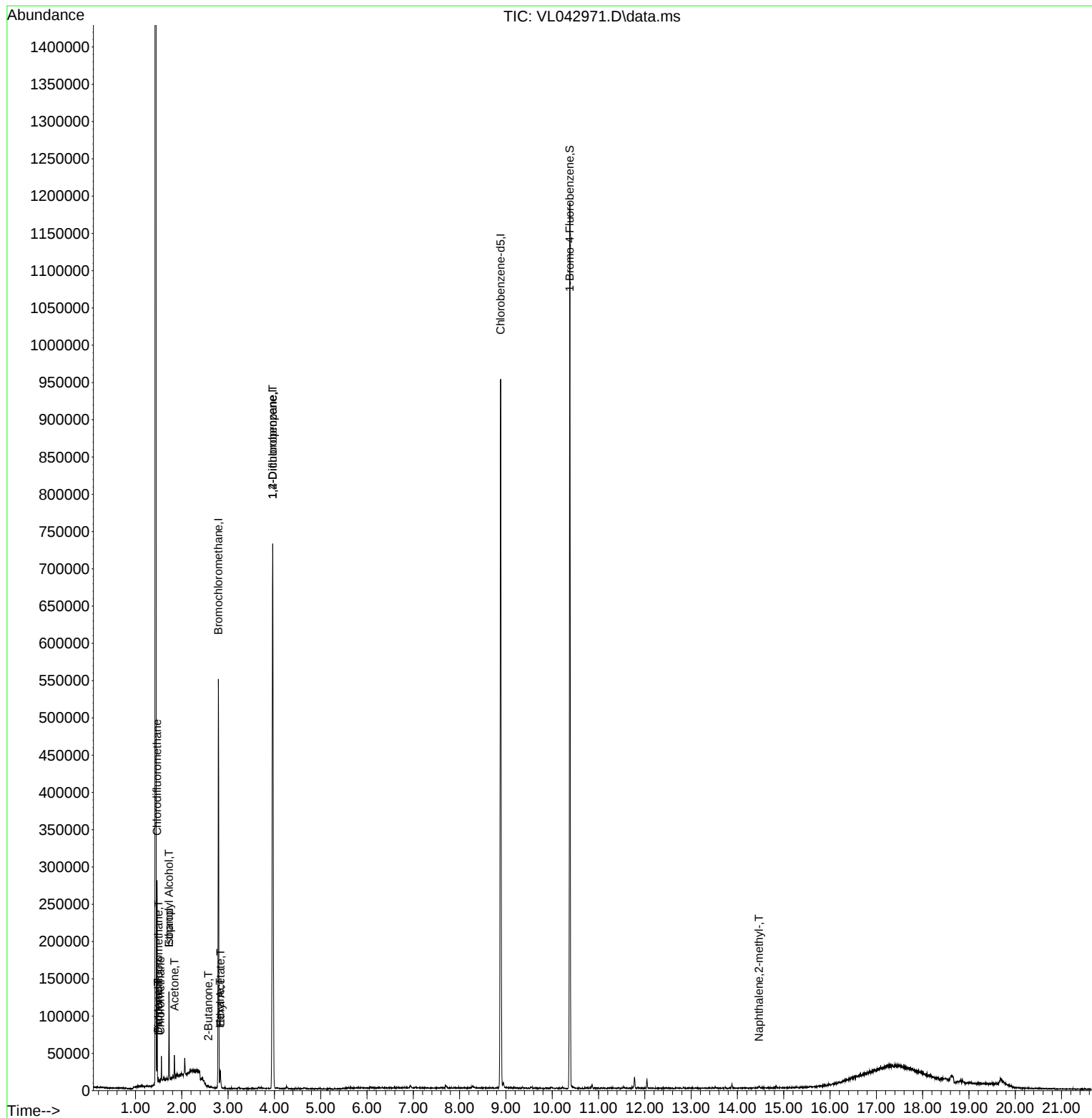
Internal Standards						
1) Bromochloromethane	2.791	49	150018	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	446558	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	395207	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	298058	10.103	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	926	0.046	ppbv	95
3) Chlorodifluoromethane	1.467	51	62907	2.501	ppbv #	61
4) Chloromethane	1.535	50	578	0.063	ppbv	97
9) Propene	1.489	41	909	0.083	ppbv	87
13) Ethanol	1.722	45	41250	38.867	ppbv	98
15) Acetone	1.839	43	13462	0.689	ppbv	99
19) Isopropyl Alcohol	1.722	45	41250	3.512	ppbv #	37
20) Methylene Chloride	2.066	84	3225	Below Cal	#	81
25) Ethyl Acetate	2.833	43	3930	0.080	ppbv #	81
26) Hexane	2.826	57	2828	0.126	ppbv #	1
34) 2-Butanone	2.570	43	1956	0.062	ppbv #	91
39) 1,2-Dichloropropane	3.962	63	110504	7.218	ppbv #	23
80) Naphthalene,2-methyl-	14.465	142	1505	0.096	ppbv	89

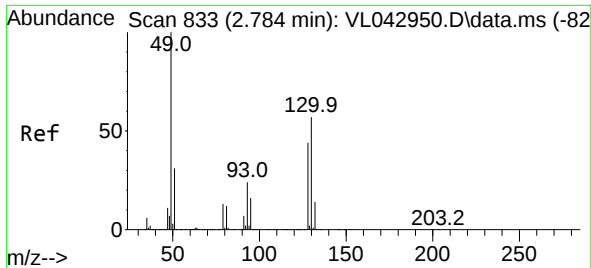
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
131-1A-2DL

Quant Time: Sep 23 02:58:08 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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.791 min Scan# 81

Delta R.T. 0.007 min

Lab File: VL042971.D

Acq: 22 Sep 2025 23:23

Instrument :

MSVOA_L

ClientSampleId :

131-1A-2DL

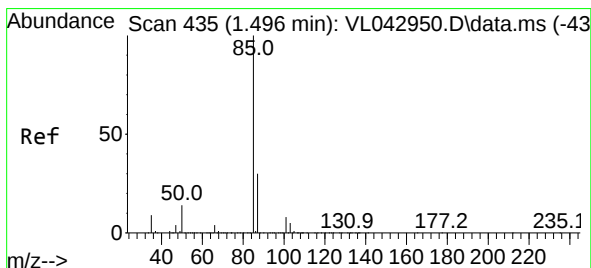
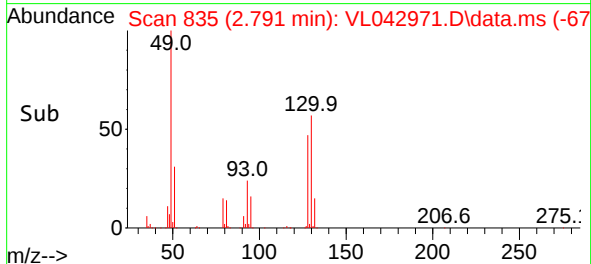
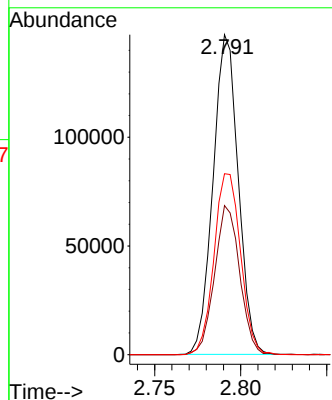
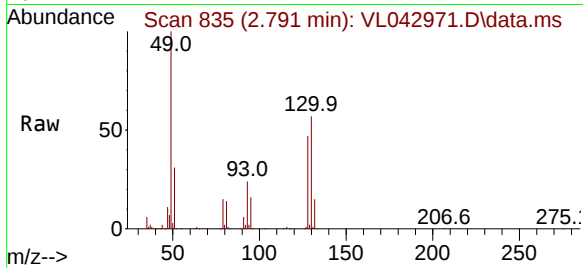
Tgt Ion: 49 Resp: 150018

Ion Ratio Lower Upper

49 100

128 46.6 22.9 68.8

130 59.7 29.1 87.3



#2

Dichlorodifluoromethane

Concen: 0.046 ppbv

RT: 1.499 min Scan# 436

Delta R.T. 0.004 min

Lab File: VL042971.D

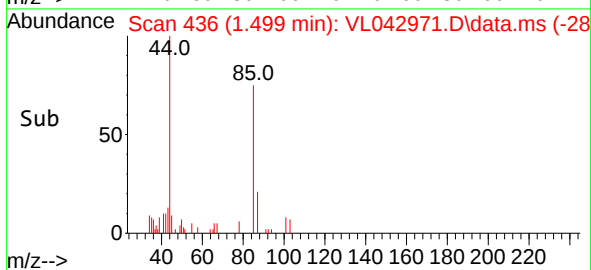
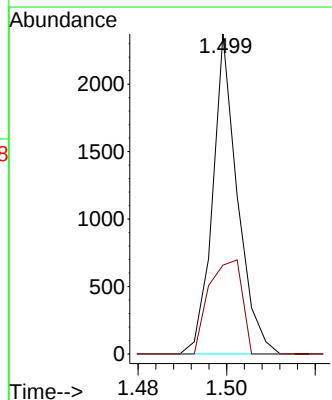
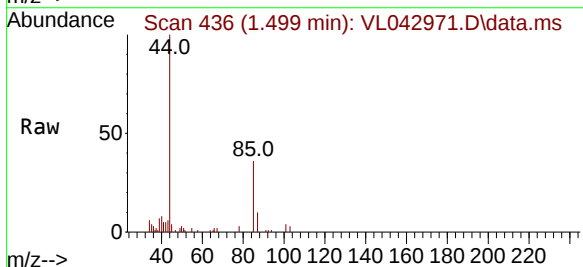
Acq: 22 Sep 2025 23:23

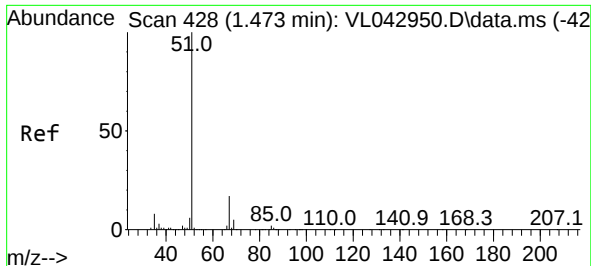
Tgt Ion: 85 Resp: 926

Ion Ratio Lower Upper

85 100

87 27.7 24.3 36.5

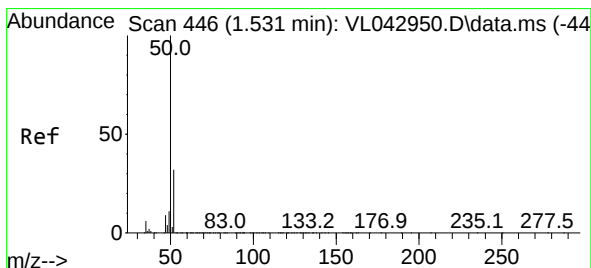
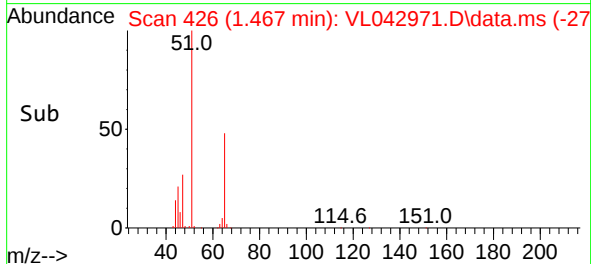
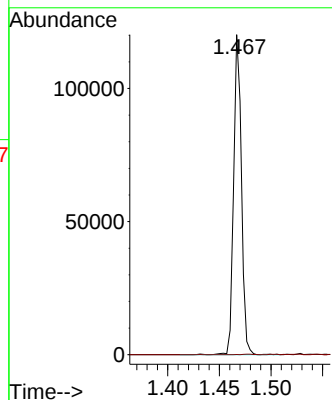
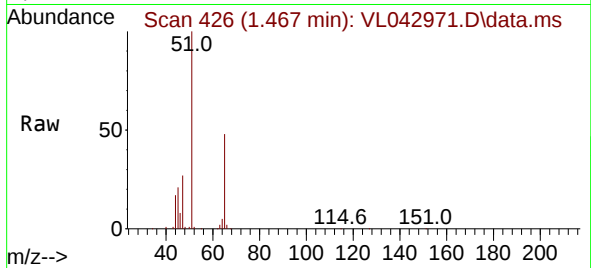




#3
Chlorodifluoromethane
Concen: 2.501 ppbv
RT: 1.467 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL042971.D
Acq: 22 Sep 2025 23:23

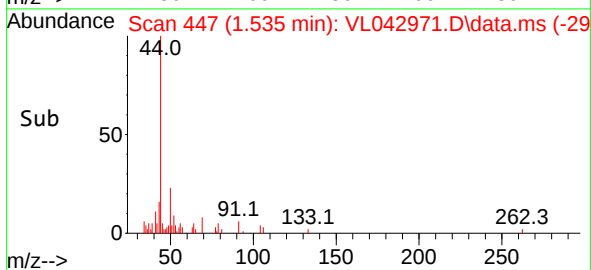
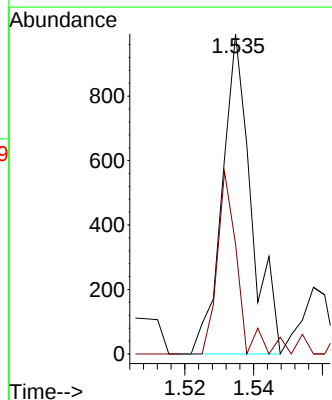
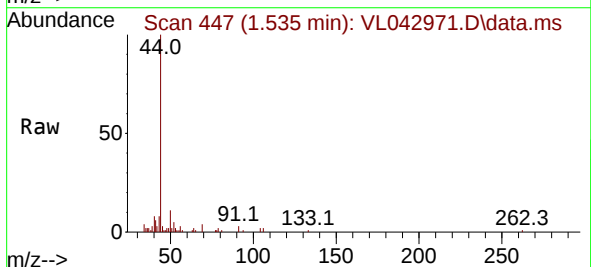
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2DL

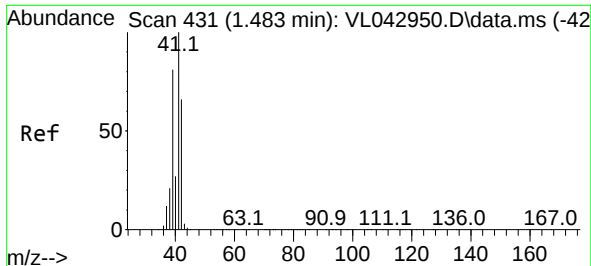
Tgt Ion: 51 Resp: 62907
Ion Ratio Lower Upper
51 100
67 0.2 13.8 20.8#



#4
Chloromethane
Concen: 0.063 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042971.D
Acq: 22 Sep 2025 23:23

Tgt Ion: 50 Resp: 578
Ion Ratio Lower Upper
50 100
52 34.3 25.9 38.9





#9

Propene

Concen: 0.083 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL042971.D

Acq: 22 Sep 2025 23:23

Instrument :

MSVOA_L

ClientSampleId :

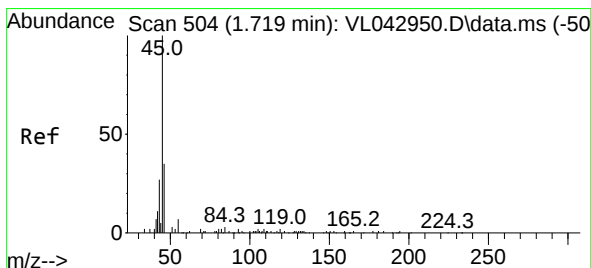
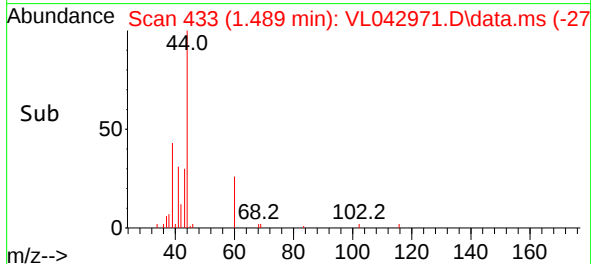
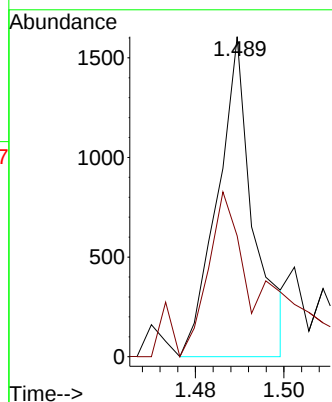
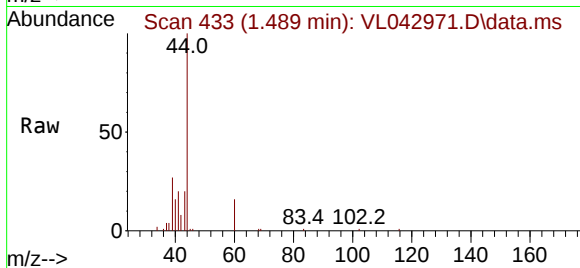
131-1A-2DL

Tgt Ion: 41 Resp: 909

Ion Ratio Lower Upper

41 100

42 82.7 57.4 86.2



#13

Ethanol

Concen: 38.867 ppbv

RT: 1.722 min Scan# 505

Delta R.T. 0.003 min

Lab File: VL042971.D

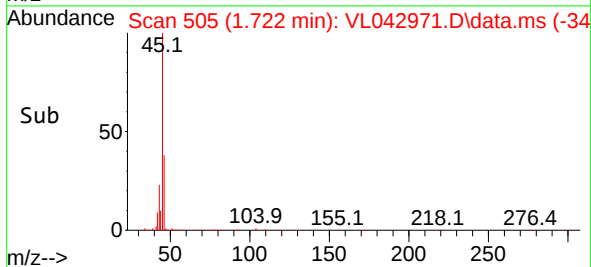
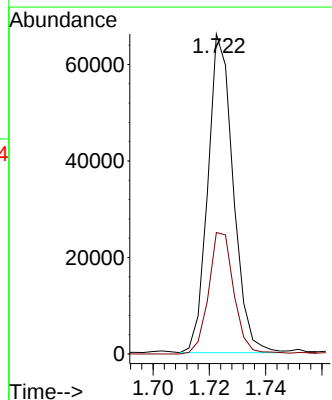
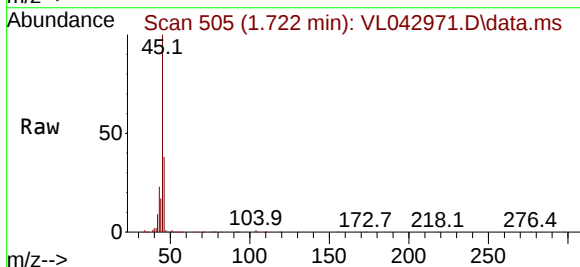
Acq: 22 Sep 2025 23:23

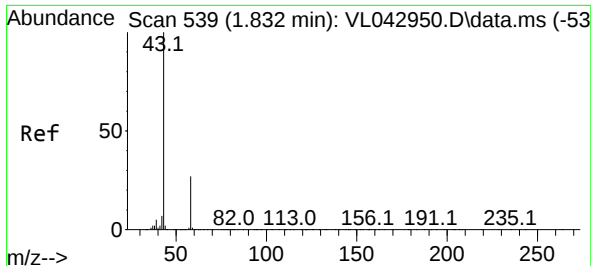
Tgt Ion: 45 Resp: 41250

Ion Ratio Lower Upper

45 100

46 39.0 16.2 64.6





#15

Acetone

Concen: 0.689 ppbv

RT: 1.839 min Scan# 541

Delta R.T. 0.007 min

Lab File: VL042971.D

Acq: 22 Sep 2025 23:23

Instrument :

MSVOA_L

ClientSampleId :

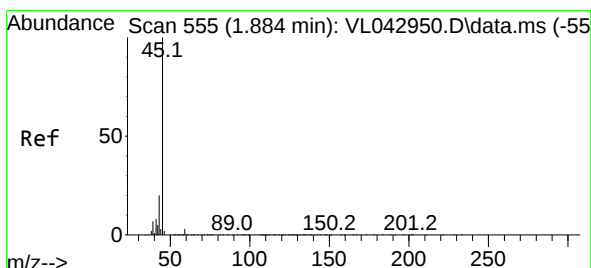
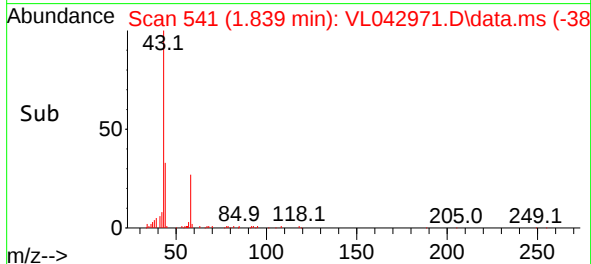
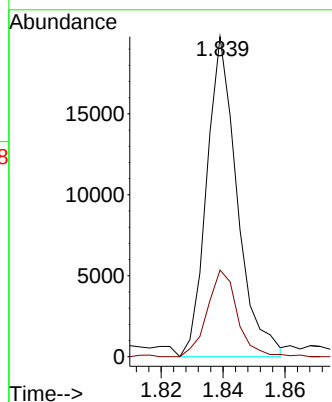
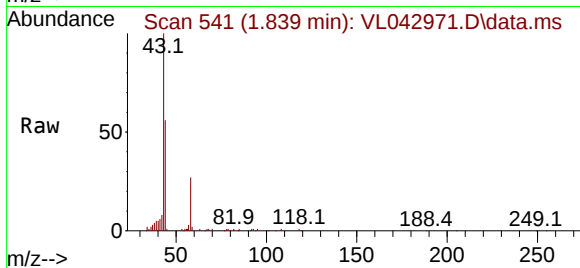
131-1A-2DL

Tgt Ion: 43 Resp: 13462

Ion Ratio Lower Upper

43 100

58 27.5 22.3 33.5



#19

Isopropyl Alcohol

Concen: 3.512 ppbv

RT: 1.722 min Scan# 505

Delta R.T. -0.162 min

Lab File: VL042971.D

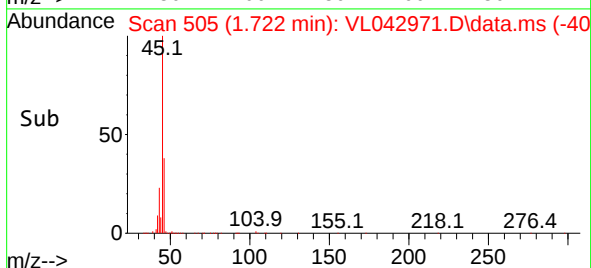
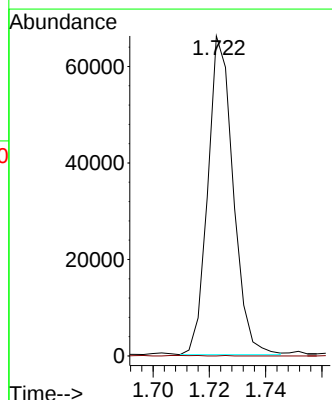
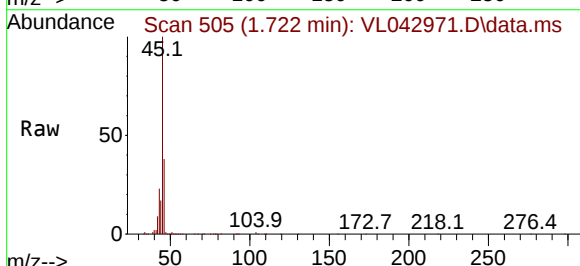
Acq: 22 Sep 2025 23:23

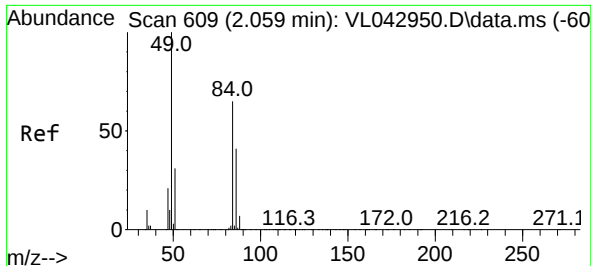
Tgt Ion: 45 Resp: 41250

Ion Ratio Lower Upper

45 100

58 0.7 31.0 46.6#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.066 min Scan# 611

Delta R.T. 0.007 min

Lab File: VL042971.D

Acq: 22 Sep 2025 23:23

Instrument :

MSVOA_L

ClientSampleId :

131-1A-2DL

Tgt Ion: 84 Resp: 3225

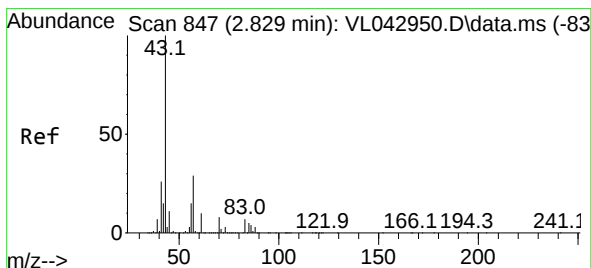
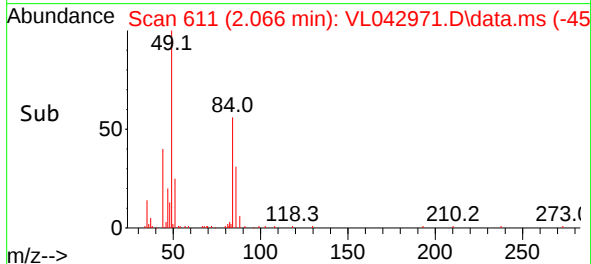
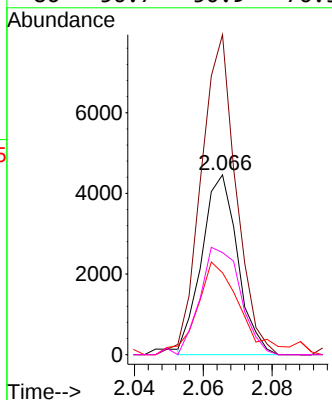
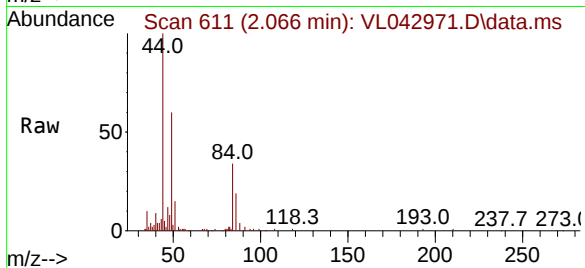
Ion Ratio Lower Upper

84 100

49 186.9 124.1 186.1#

51 41.1 39.8 59.8

86 56.7 50.9 76.3



#25

Ethyl Acetate

Concen: 0.080 ppbv

RT: 2.833 min Scan# 848

Delta R.T. 0.003 min

Lab File: VL042971.D

Acq: 22 Sep 2025 23:23

Tgt Ion: 43 Resp: 3930

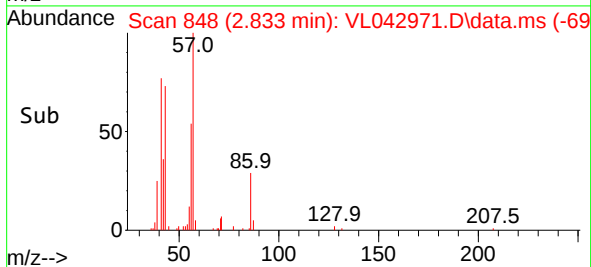
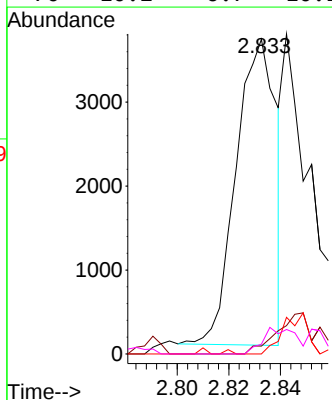
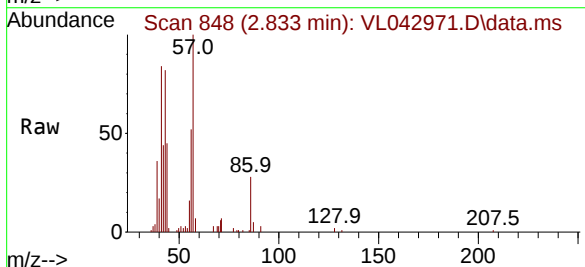
Ion Ratio Lower Upper

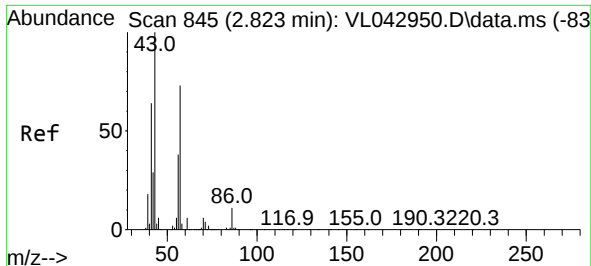
43 100

45 0.0 7.7 11.5#

61 0.0 7.1 10.7#

70 10.2 6.7 10.1#

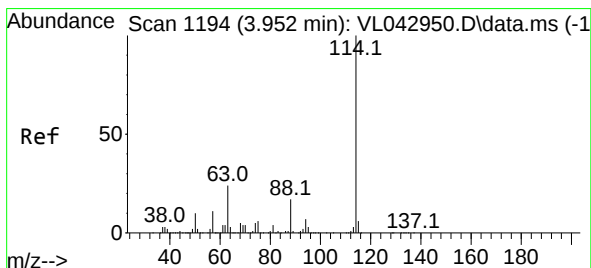
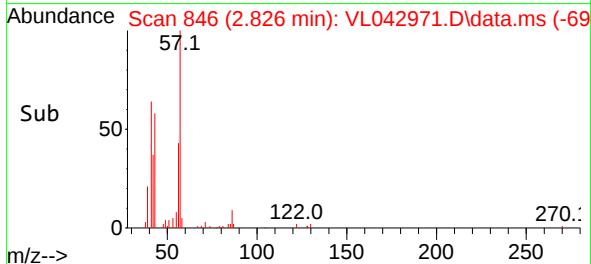
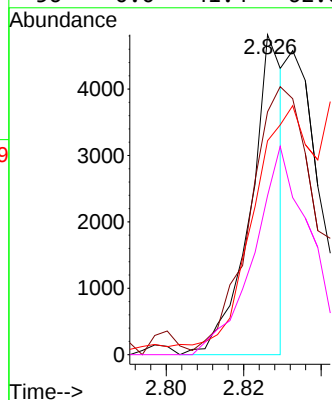
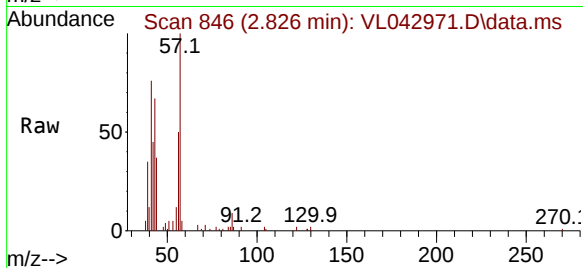




#26
Hexane
Concen: 0.126 ppbv
RT: 2.826 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL042971.D
Acq: 22 Sep 2025 23:23

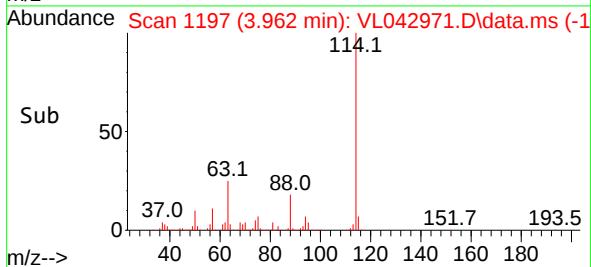
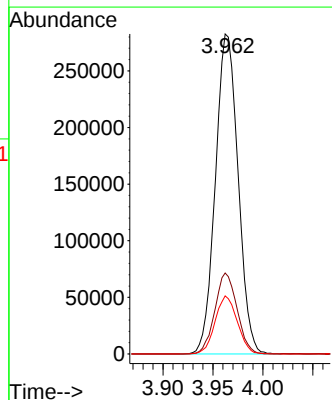
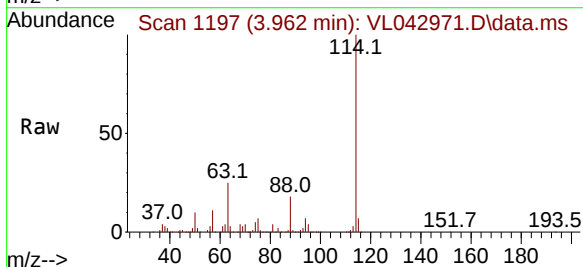
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2DL

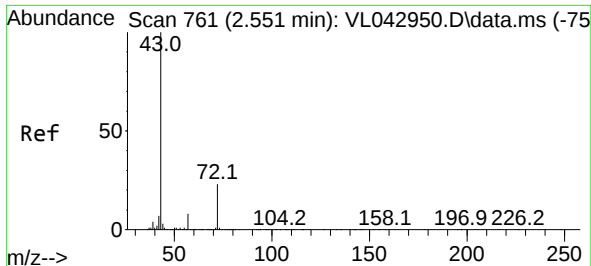
Tgt Ion: 57 Resp: 2828
Ion Ratio Lower Upper
57 100
41 0.0 71.7 107.5#
43 0.0 180.8 271.2#
56 0.0 41.4 62.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.010 min
Lab File: VL042971.D
Acq: 22 Sep 2025 23:23

Tgt Ion: 114 Resp: 446558
Ion Ratio Lower Upper
114 100
63 24.8 19.4 29.2
88 17.7 14.2 21.2

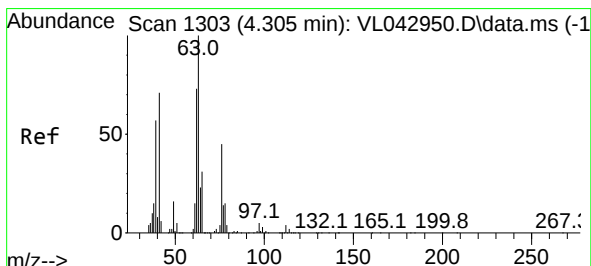
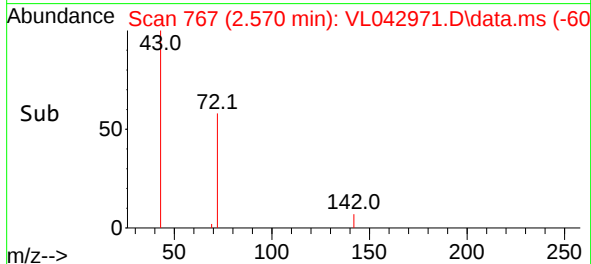
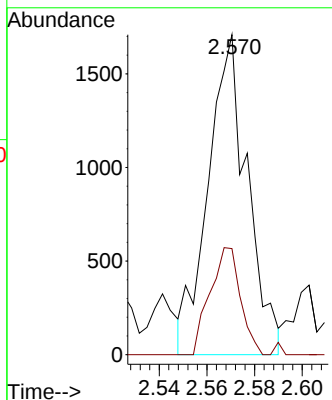
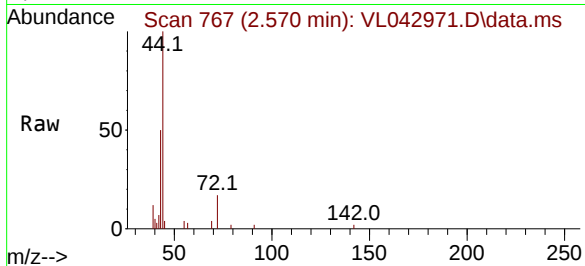




#34
2-Butanone
Concen: 0.062 ppbv
RT: 2.570 min Scan# 71
Delta R.T. 0.020 min
Lab File: VL042971.D
Acq: 22 Sep 2025 23:23

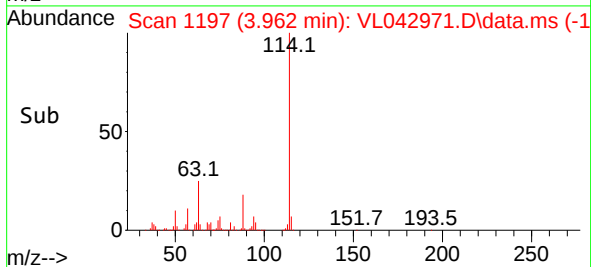
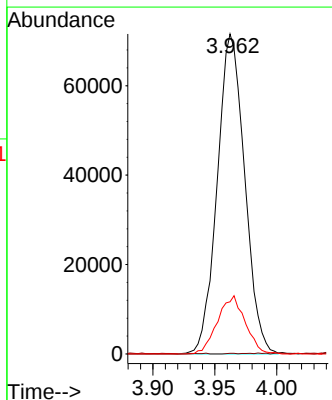
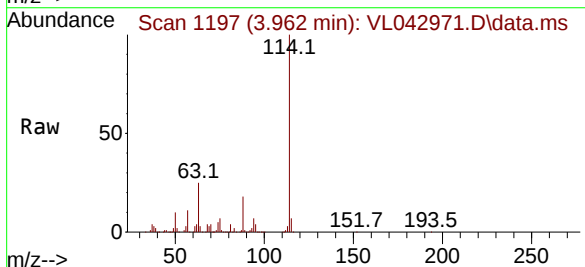
Instrument :
MSVOA_1
ClientSampleId :
131-1A-2DL

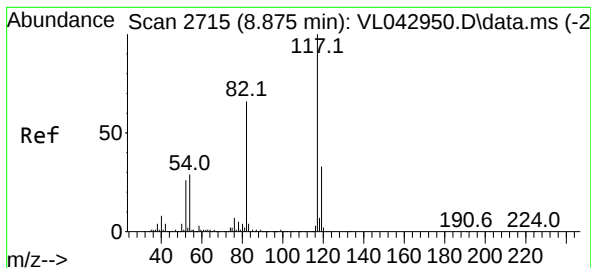
Tgt Ion: 43 Resp: 1956
Ion Ratio Lower Upper
43 100
72 26.6 17.7 26.5#



#39
1,2-Dichloropropane
Concen: 7.218 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.343 min
Lab File: VL042971.D
Acq: 22 Sep 2025 23:23

Tgt Ion: 63 Resp: 110504
Ion Ratio Lower Upper
63 100
41 0.2 57.5 86.3#
62 16.3 58.5 87.7#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 21

Delta R.T. 0.010 min

Lab File: VL042971.D

Acq: 22 Sep 2025 23:23

Instrument :

MSVOA_L

ClientSampleId :

131-1A-2DL

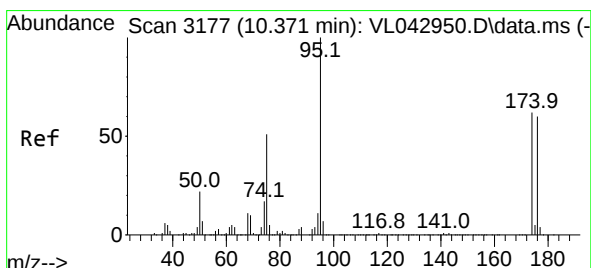
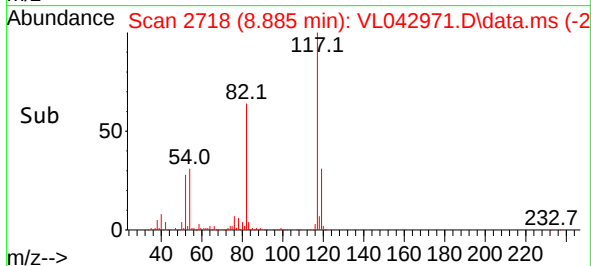
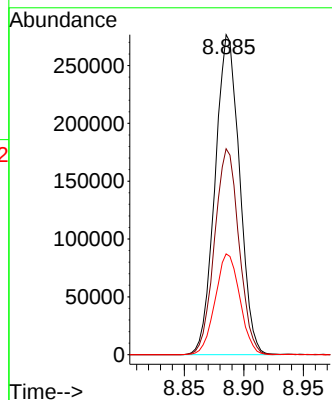
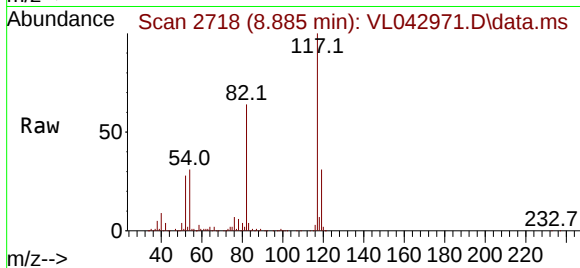
Tgt Ion:117 Resp: 395207

Ion Ratio Lower Upper

117 100

82 64.3 52.8 79.2

119 31.8 26.5 39.7



#68

1-Bromo-4-Fluorobenzene

Concen: 10.103 ppbv

RT: 10.380 min Scan# 3180

Delta R.T. 0.010 min

Lab File: VL042971.D

Acq: 22 Sep 2025 23:23

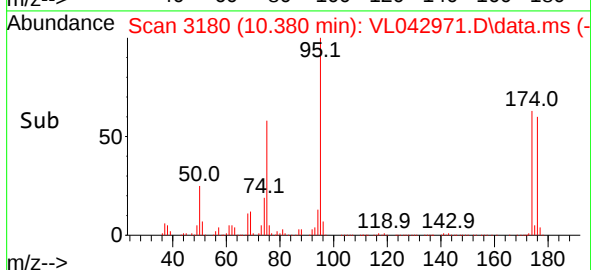
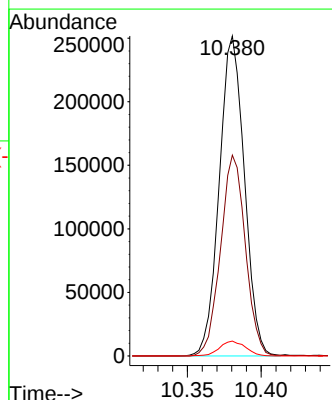
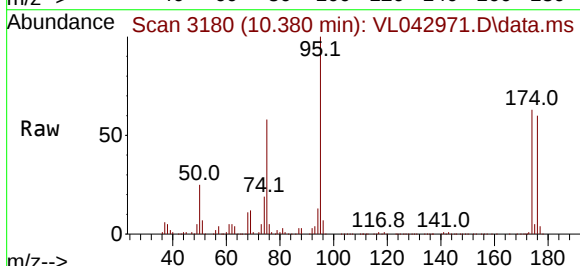
Tgt Ion: 95 Resp: 298058

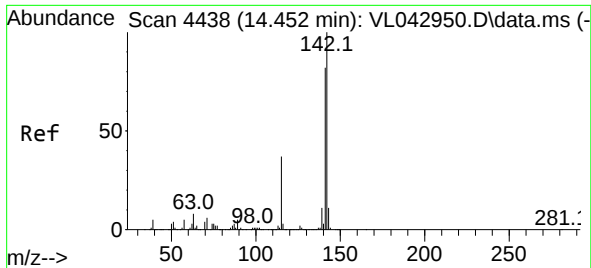
Ion Ratio Lower Upper

95 100

174 62.3 51.4 77.2

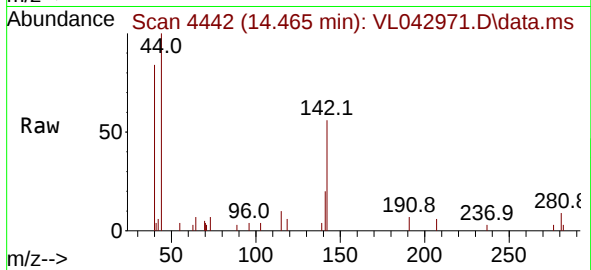
175 4.8 4.0 6.0





#80
 Naphthalene, 2-methyl-
 Concen: 0.096 ppbv
 RT: 14.465 min Scan# 44
 Delta R.T. 0.013 min
 Lab File: VL042971.D
 Acq: 22 Sep 2025 23:23

Instrument :
 MSVOA_L
 ClientSampleId :
 131-1A-2DL



Tgt Ion:	142	Resp:	1505
Ion	Ratio	Lower	Upper
142	100		
141	70.4	65.1	97.7
115	32.0	28.9	43.3

