

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042863.D
 Acq On : 13 Aug 2025 22:02
 Operator : SY/MD
 Sample : Q2834-02DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 14 02:23:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

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

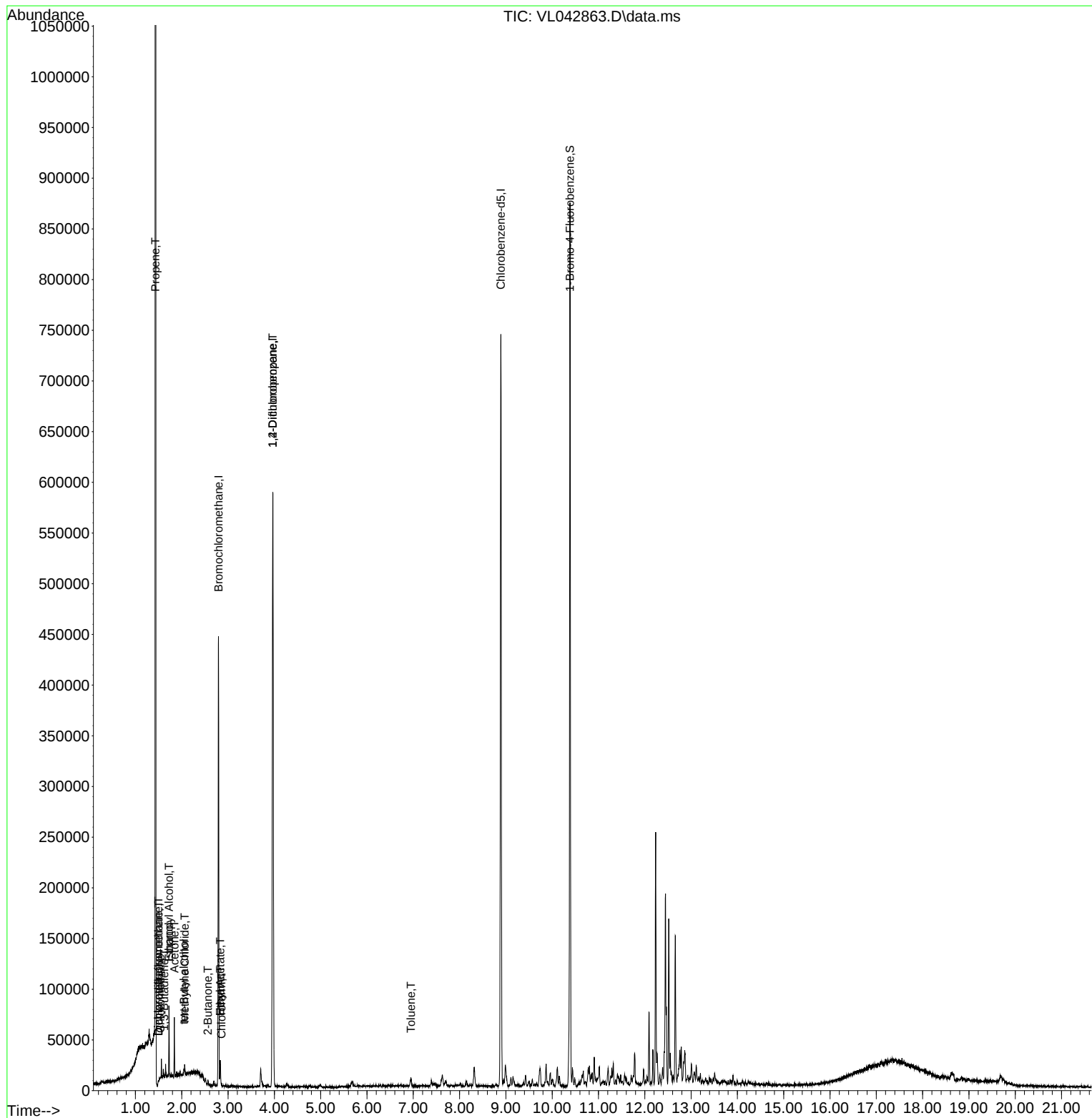
Internal Standards						
1) Bromochloromethane	2.794	49	122002	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	362595	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.892	117	311068	10.000	ppbv	0.00

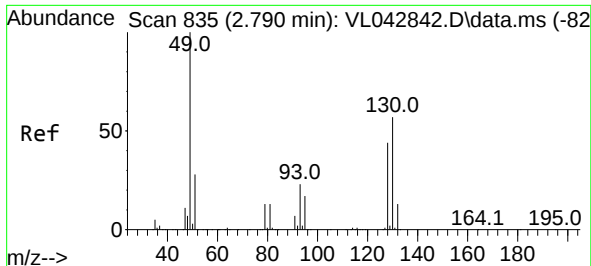
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.384	95	233164	9.994	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.900%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	411	0.023	ppbv	92
4) Chloromethane	1.538	50	149	0.021	ppbv #	53
8) Dichlorotetrafluoroethane	1.499	85	411	0.028	ppbv #	34
9) Propene	1.431	41	718	0.084	ppbv	99
13) Ethanol	1.722	45	25708	32.941	ppbv	92
15) Acetone	1.839	43	23970	1.485	ppbv	100
16) 1,3-Butadiene	1.619	39	272	0.037	ppbv #	72
17) tert-Butyl alcohol	2.049	59	2116	0.111	ppbv #	29
19) Isopropyl Alcohol	1.722	45	25708	2.667	ppbv #	76
20) Methylene Chloride	2.066	84	1572	0.233	ppbv #	82
25) Ethyl Acetate	2.829	43	4620	0.118	ppbv #	80
26) Hexane	2.829	57	6328	0.351	ppbv #	47
29) Chloroform	2.859	83	797	0.031	ppbv #	79
34) 2-Butanone	2.564	43	2769	0.113	ppbv	96
39) 1,2-Dichloropropane	3.965	63	89529	7.060	ppbv #	27
53) Toluene	6.950	91	5924	0.144	ppbv	100

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

Quant Time: Aug 14 02:23:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration

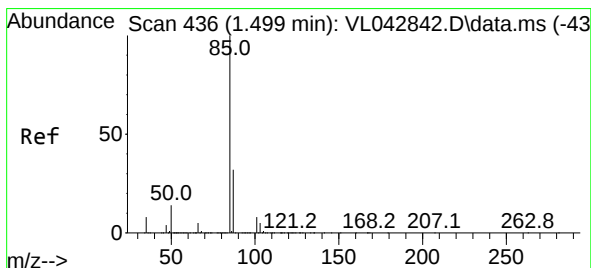
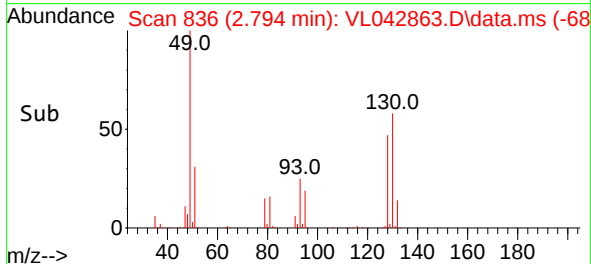
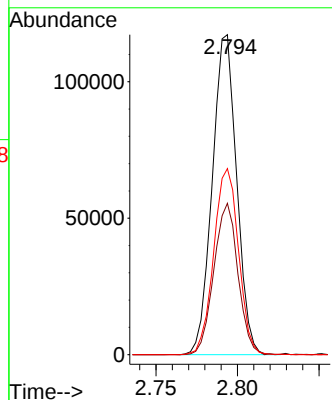
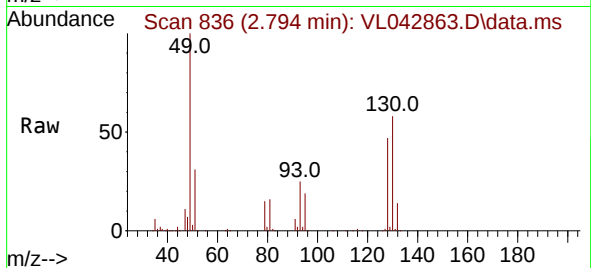




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 835
Delta R.T. 0.004 min
Lab File: VL042863.D
Acq: 13 Aug 2025 22:02

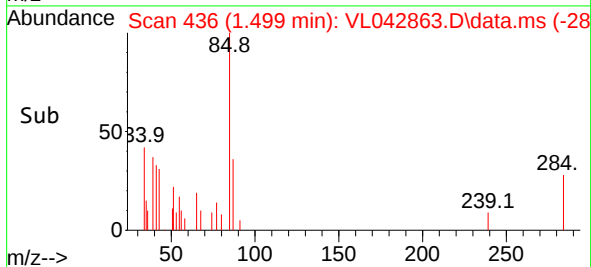
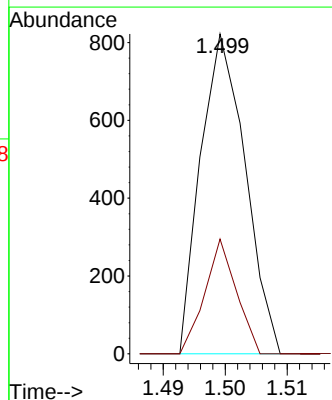
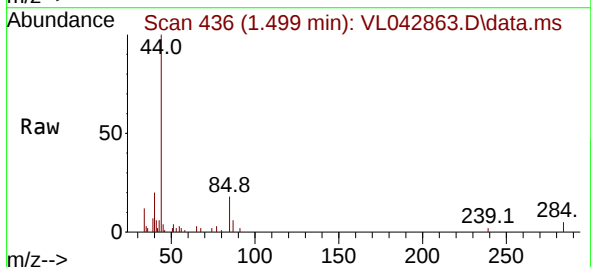
Instrument :
MSVOA_L
ClientSampleId :

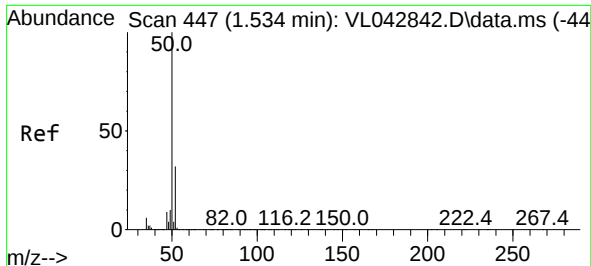
Tgt Ion: 49 Resp: 122002
Ion Ratio Lower Upper
49 100
128 46.7 23.7 71.1
130 59.2 30.6 91.6



#2
Dichlorodifluoromethane
Concen: 0.023 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042863.D
Acq: 13 Aug 2025 22:02

Tgt Ion: 85 Resp: 411
Ion Ratio Lower Upper
85 100
87 35.9 25.3 37.9

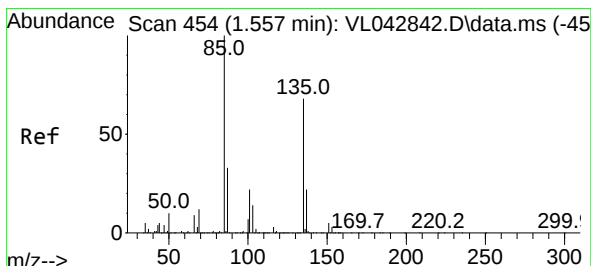
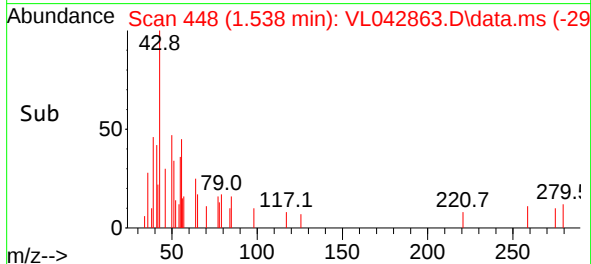
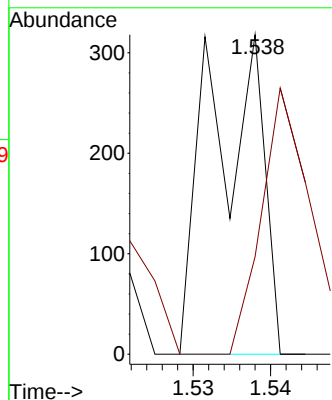
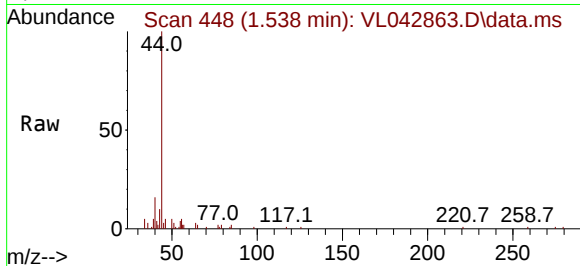




#4
Chloromethane
Concen: 0.021 ppbv
RT: 1.538 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042863.D
Acq: 13 Aug 2025 22:02

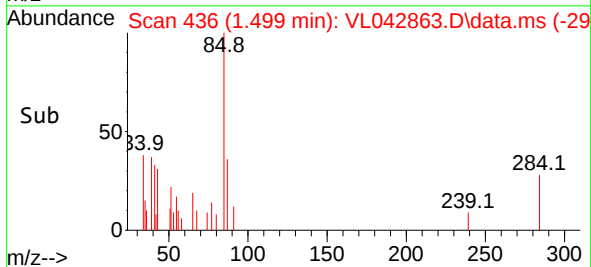
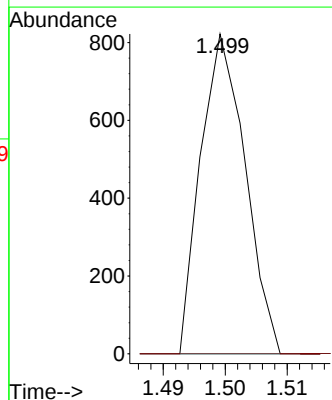
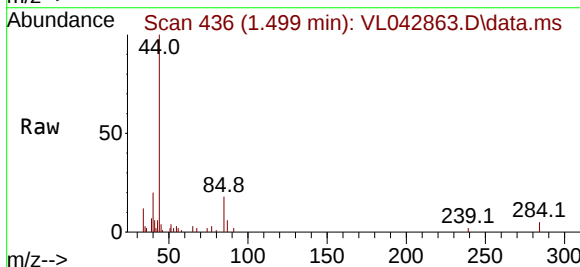
Instrument :
MSVOA_L
ClientSampleId :

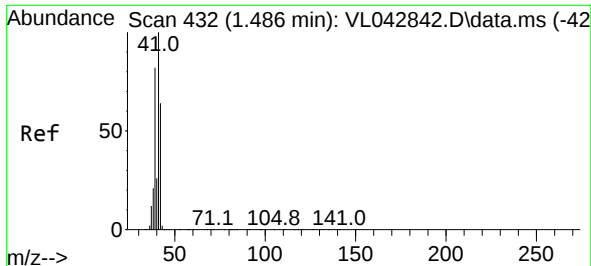
Tgt Ion: 50 Resp: 149
Ion Ratio Lower Upper
50 100
52 6.3 25.9 38.9#



#8
Dichlorotetrafluoroethane
Concen: 0.028 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.058 min
Lab File: VL042863.D
Acq: 13 Aug 2025 22:02

Tgt Ion: 85 Resp: 411
Ion Ratio Lower Upper
85 100
135 12.2 51.2 76.8#





#9

Propene

Concen: 0.084 ppbv

RT: 1.431 min Scan# 41

Delta R.T. -0.055 min

Lab File: VL042863.D

Acq: 13 Aug 2025 22:02

Instrument :

MSVOA_L

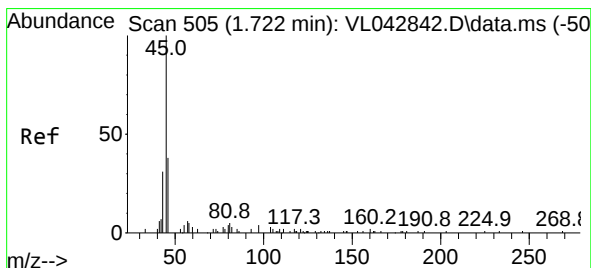
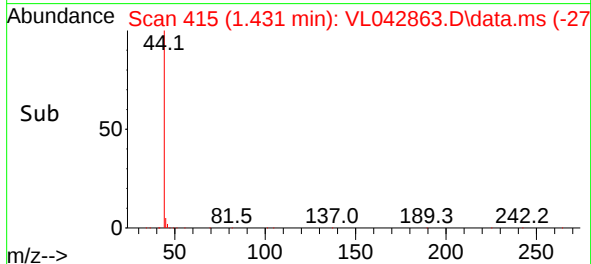
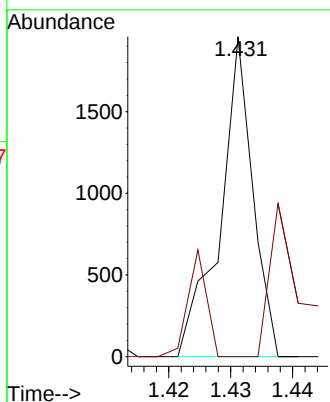
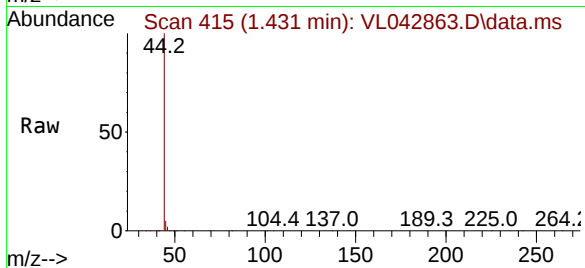
ClientSampleId :

Tgt Ion: 41 Resp: 718

Ion Ratio Lower Upper

41 100

42 65.2 53.0 79.4



#13

Ethanol

Concen: 32.941 ppbv

RT: 1.722 min Scan# 505

Delta R.T. 0.000 min

Lab File: VL042863.D

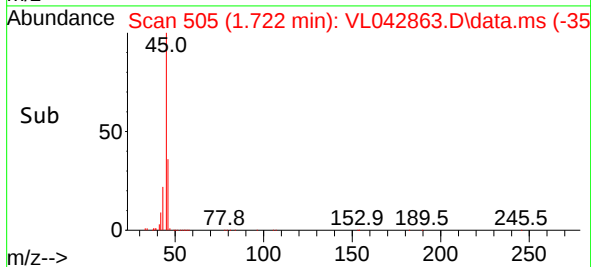
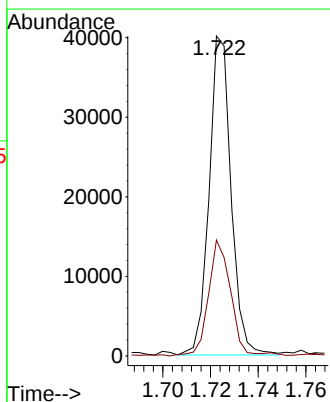
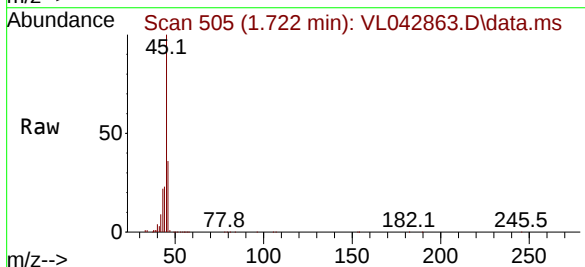
Acq: 13 Aug 2025 22:02

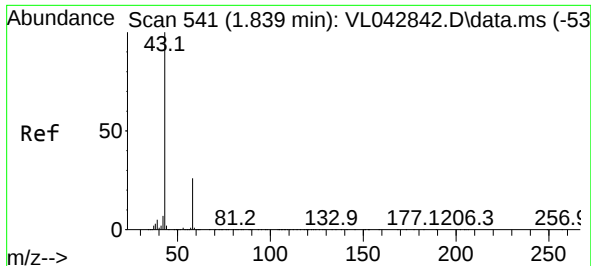
Tgt Ion: 45 Resp: 25708

Ion Ratio Lower Upper

45 100

46 38.4 17.5 69.9

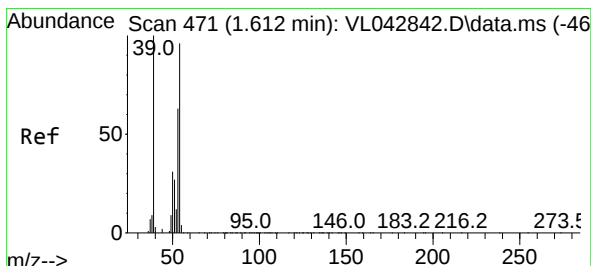
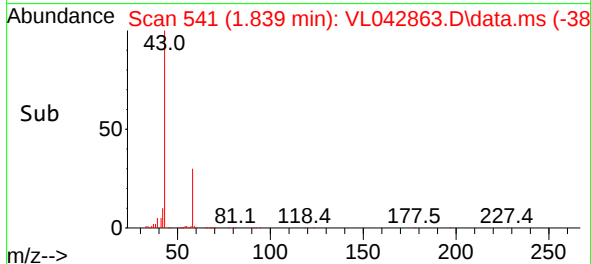
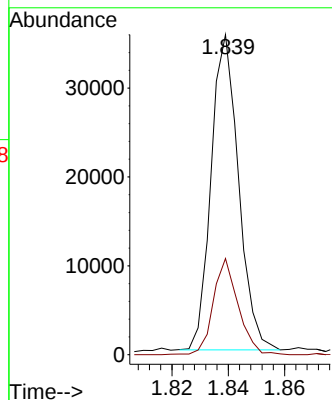
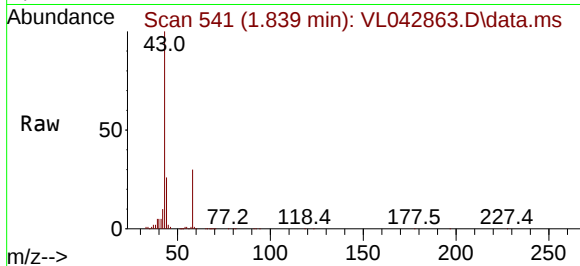




#15
Acetone
Concen: 1.485 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042863.D
Acq: 13 Aug 2025 22:02

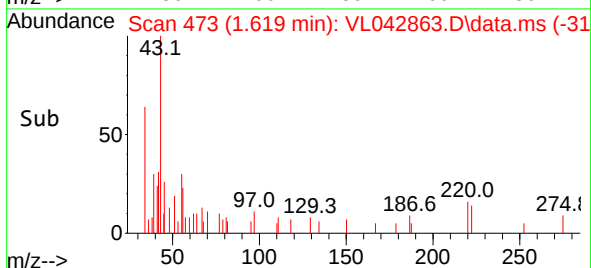
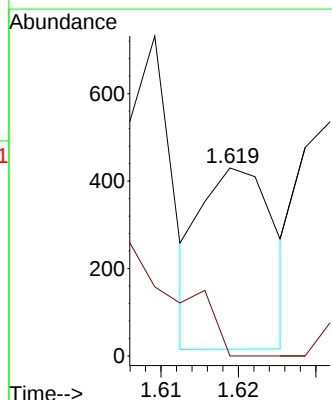
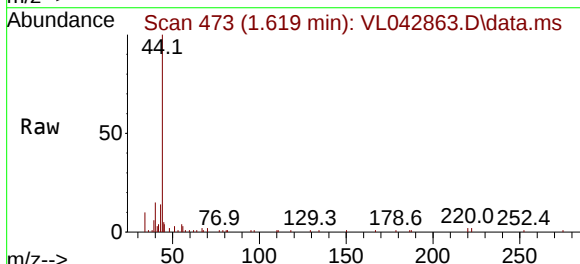
Instrument :
MSVOA_L
ClientSampleId :

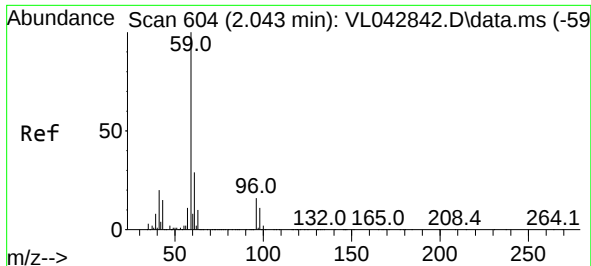
Tgt Ion: 43 Resp: 23970
Ion Ratio Lower Upper
43 100
58 27.8 22.4 33.6



#16
1,3-Butadiene
Concen: 0.037 ppbv
RT: 1.619 min Scan# 473
Delta R.T. 0.007 min
Lab File: VL042863.D
Acq: 13 Aug 2025 22:02

Tgt Ion: 39 Resp: 272
Ion Ratio Lower Upper
39 100
54 54.8 63.6 95.4#





#17

tert-Butyl alcohol

Concen: 0.111 ppbv

RT: 2.049 min Scan# 604

Delta R.T. 0.007 min

Lab File: VL042863.D

Acq: 13 Aug 2025 22:02

Instrument :

MSVOA_L

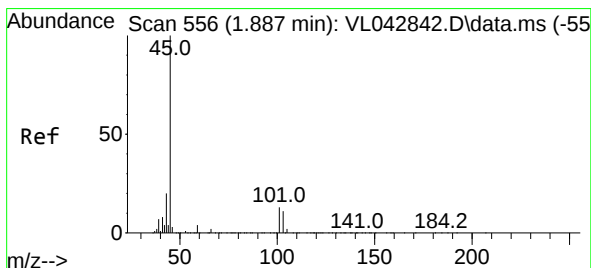
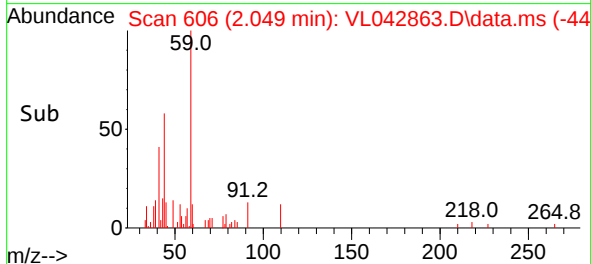
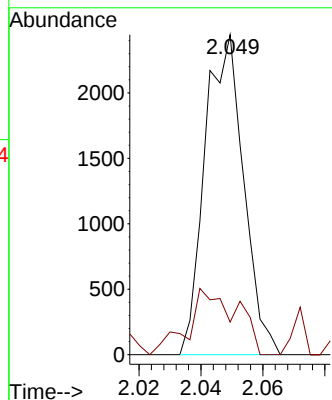
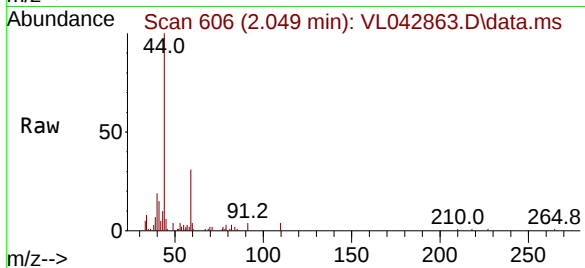
ClientSampleId :

Tgt Ion: 59 Resp: 2116

Ion Ratio Lower Upper

59 100

57 38.1 9.0 13.4#



#19

Isopropyl Alcohol

Concen: 2.667 ppbv

RT: 1.722 min Scan# 505

Delta R.T. -0.165 min

Lab File: VL042863.D

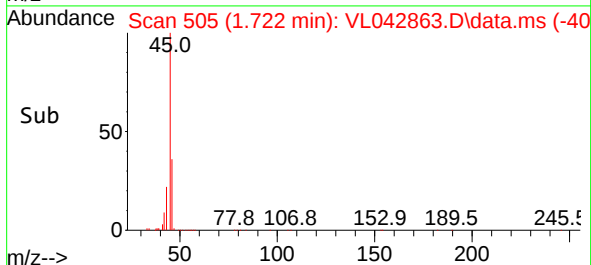
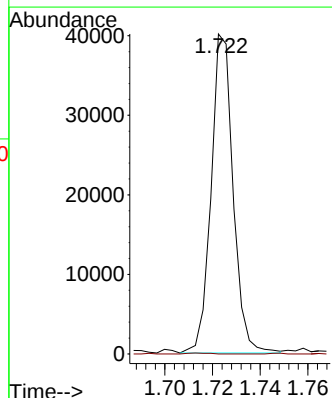
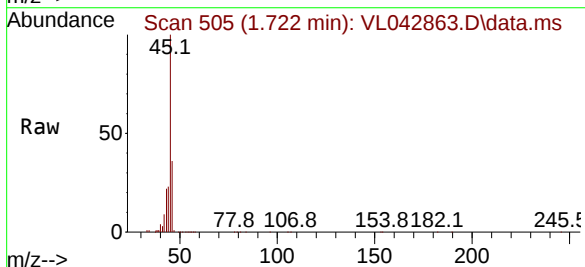
Acq: 13 Aug 2025 22:02

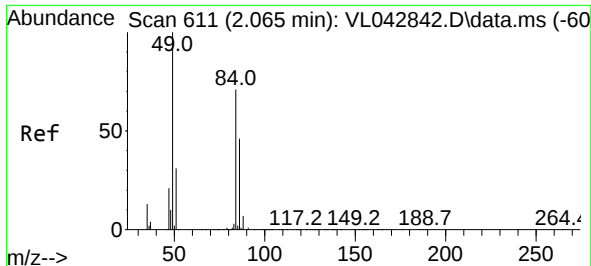
Tgt Ion: 45 Resp: 25708

Ion Ratio Lower Upper

45 100

58 25.9 32.7 49.1#

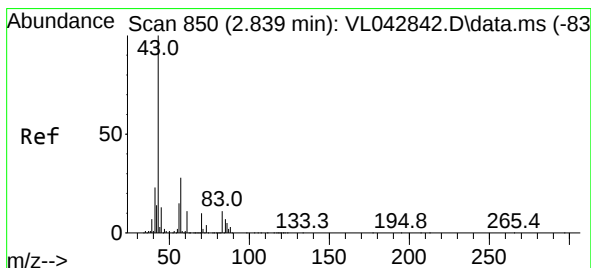
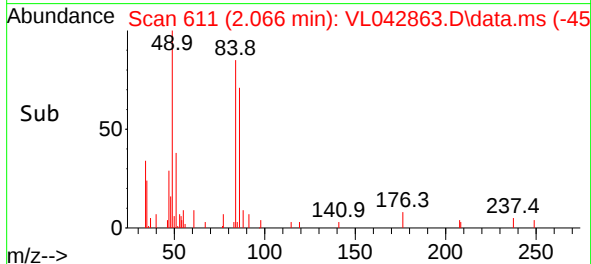
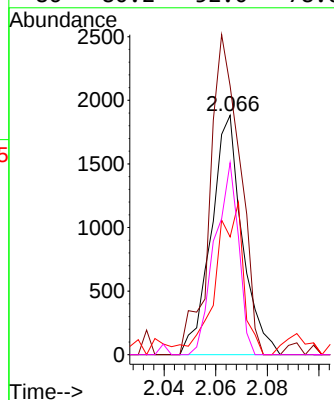
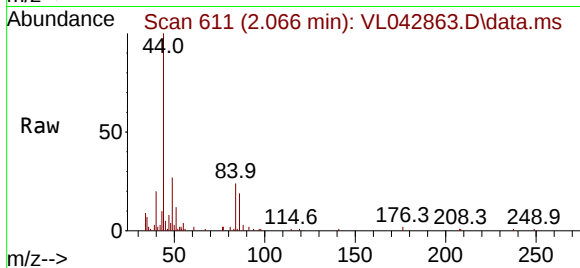




#20
Methylene Chloride
Concen: 0.233 ppbv
RT: 2.066 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042863.D
Acq: 13 Aug 2025 22:02

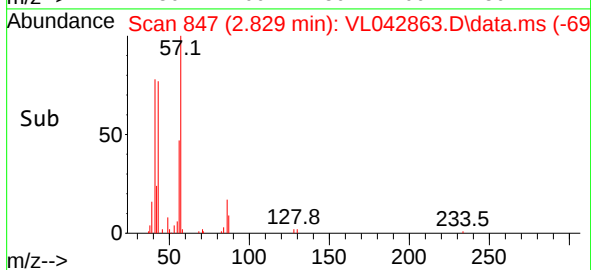
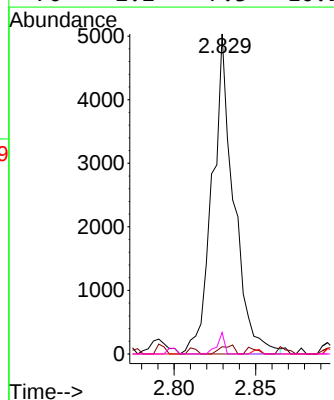
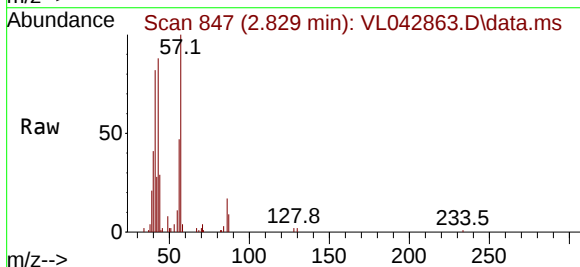
Instrument :
MSVOA_L
ClientSampleId :

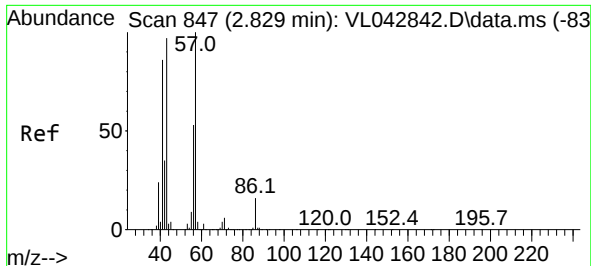
Tgt Ion:	84	Resp:	1572
Ion	Ratio	Lower	Upper
84	100		
49	112.3	112.3	168.5
51	45.3	36.0	54.0
86	80.2	52.0	78.0#



#25
Ethyl Acetate
Concen: 0.118 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.009 min
Lab File: VL042863.D
Acq: 13 Aug 2025 22:02

Tgt Ion:	43	Resp:	4620
Ion	Ratio	Lower	Upper
43	100		
45	4.4	8.1	12.1#
61	0.0	7.4	11.2#
70	2.2	7.3	10.9#

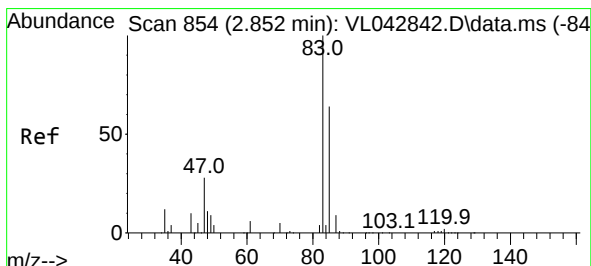
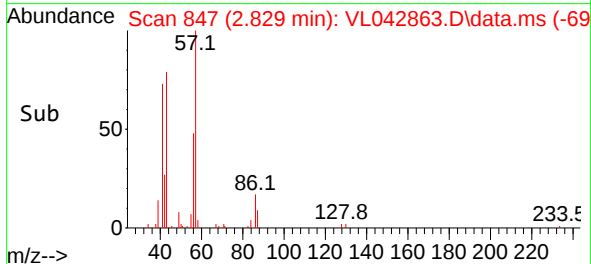
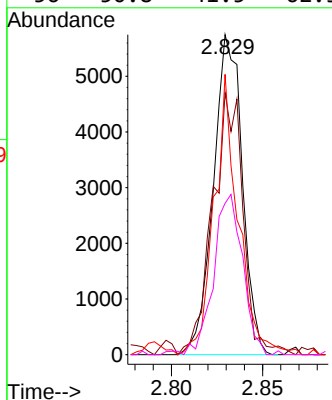
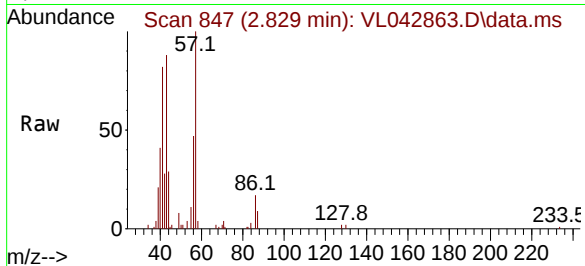




#26
Hexane
Concen: 0.351 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042863.D
Acq: 13 Aug 2025 22:02

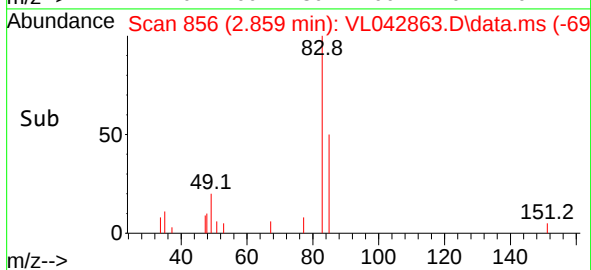
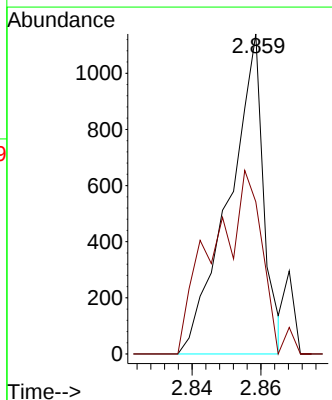
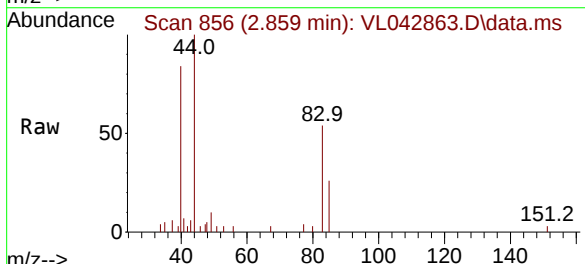
Instrument :
MSVOA_L
ClientSampleId :

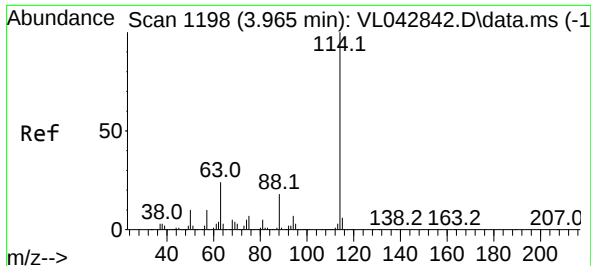
Tgt Ion: 57 Resp: 6328
Ion Ratio Lower Upper
57 100
41 91.9 68.6 103.0
43 78.2 168.5 252.7#
56 50.8 41.5 62.3



#29
Chloroform
Concen: 0.031 ppbv
RT: 2.859 min Scan# 856
Delta R.T. 0.007 min
Lab File: VL042863.D
Acq: 13 Aug 2025 22:02

Tgt Ion: 83 Resp: 797
Ion Ratio Lower Upper
83 100
85 47.5 51.1 76.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.000 min

Lab File: VL042863.D

Acq: 13 Aug 2025 22:02

Instrument :

MSVOA_L

ClientSampleId :

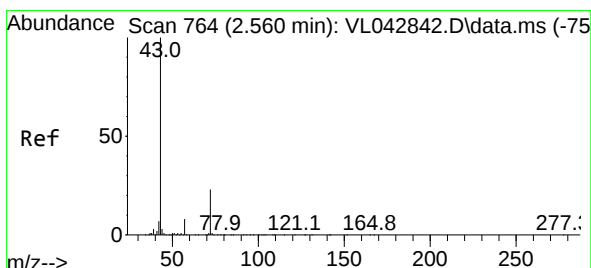
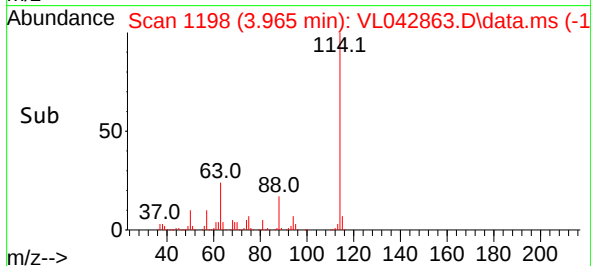
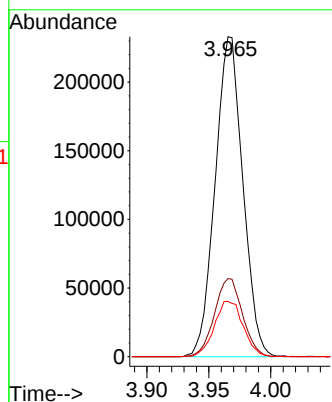
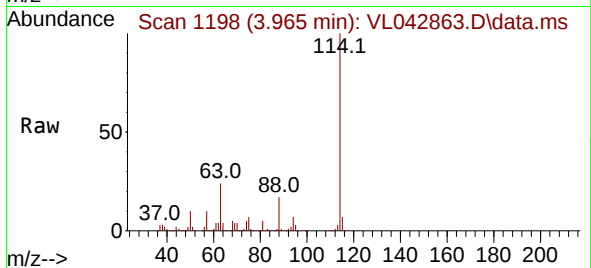
Tgt Ion:114 Resp: 362595

Ion Ratio Lower Upper

114 100

63 24.7 19.7 29.5

88 18.1 14.4 21.6



#34

2-Butanone

Concen: 0.113 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.004 min

Lab File: VL042863.D

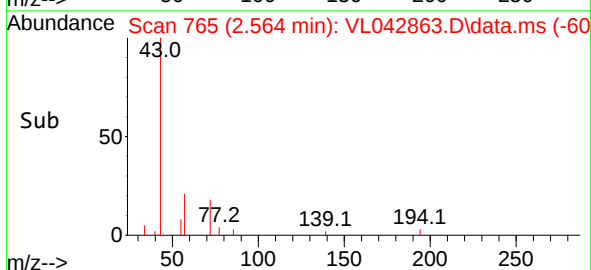
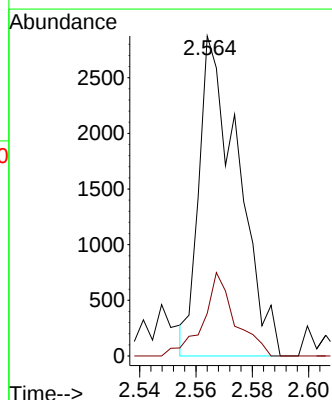
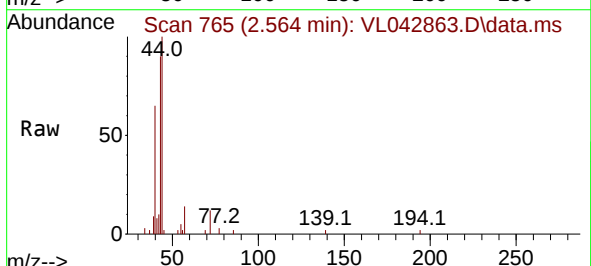
Acq: 13 Aug 2025 22:02

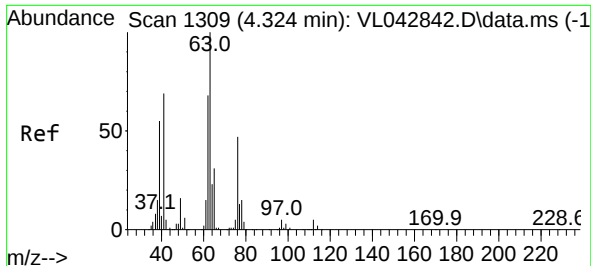
Tgt Ion: 43 Resp: 2769

Ion Ratio Lower Upper

43 100

72 21.2 18.6 28.0





#39

1,2-Dichloropropane

Concen: 7.060 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. -0.359 min

Lab File: VL042863.D

Acq: 13 Aug 2025 22:02

Instrument :

MSVOA_L

ClientSampleId :

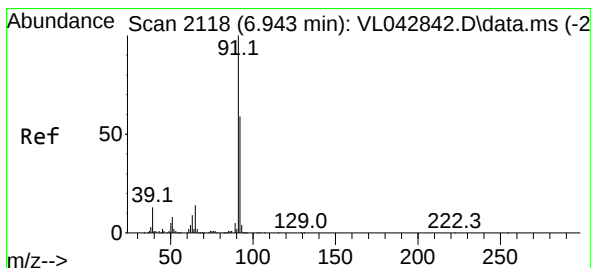
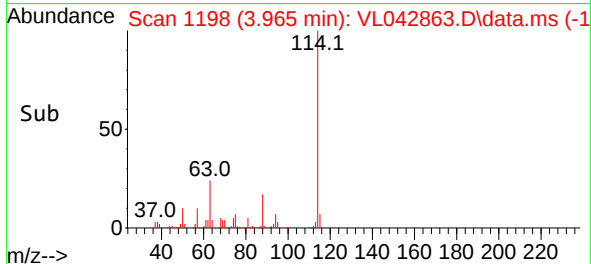
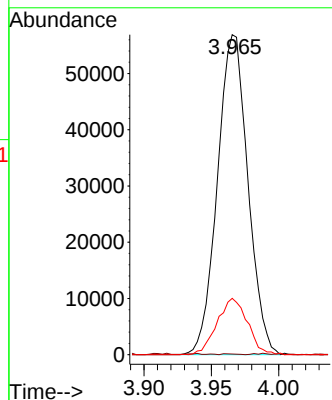
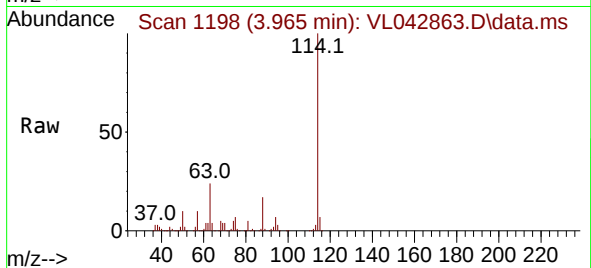
Tgt Ion: 63 Resp: 89529

Ion Ratio Lower Upper

63 100

41 0.1 55.0 82.4#

62 17.6 54.4 81.6#



#53

Toluene

Concen: 0.144 ppbv

RT: 6.950 min Scan# 2120

Delta R.T. 0.007 min

Lab File: VL042863.D

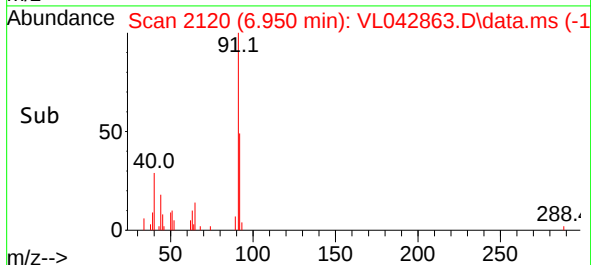
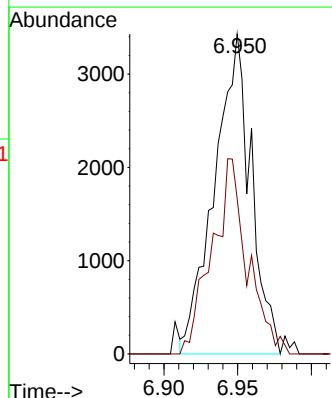
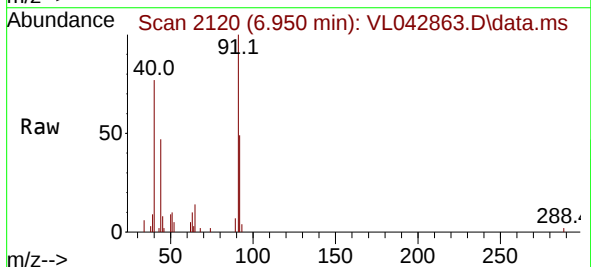
Acq: 13 Aug 2025 22:02

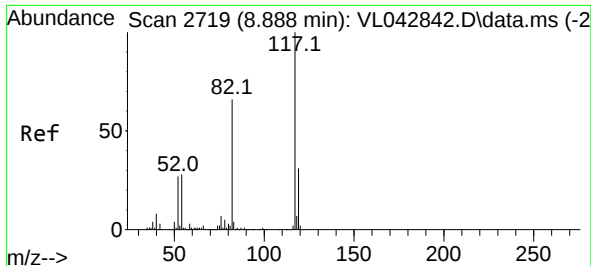
Tgt Ion: 91 Resp: 5924

Ion Ratio Lower Upper

91 100

92 59.4 47.8 71.6

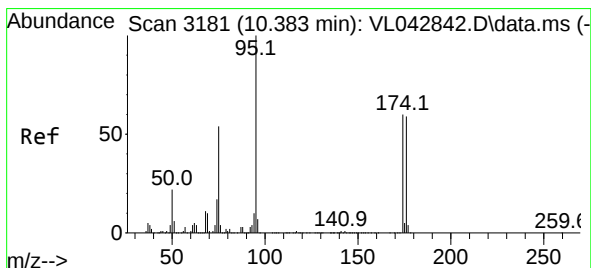
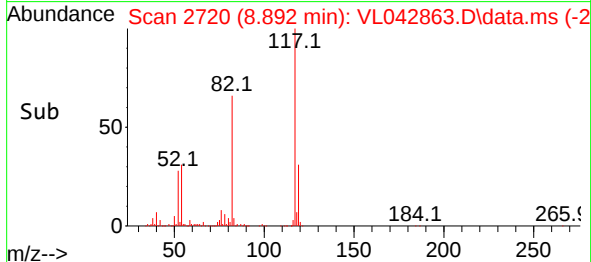
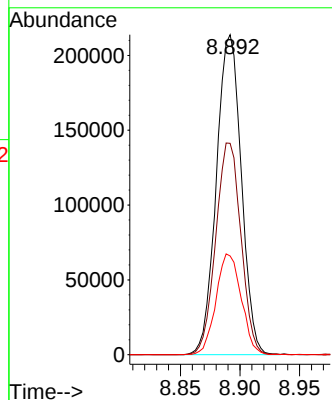
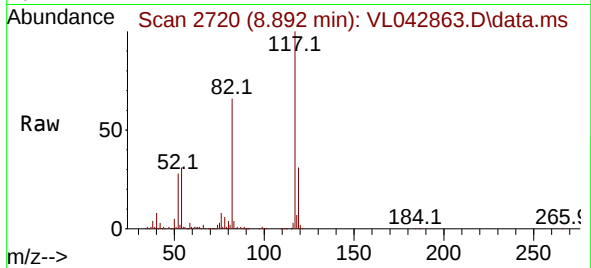




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.892 min Scan# 21
Delta R.T. 0.004 min
Lab File: VL042863.D
Acq: 13 Aug 2025 22:02

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:117 Resp: 311068
Ion Ratio Lower Upper
117 100
82 66.9 54.6 81.8
119 31.9 25.9 38.9



#68
1-Bromo-4-Fluorobenzene
Concen: 9.994 ppbv
RT: 10.384 min Scan# 3181
Delta R.T. 0.000 min
Lab File: VL042863.D
Acq: 13 Aug 2025 22:02

Tgt Ion: 95 Resp: 233164
Ion Ratio Lower Upper
95 100
174 57.0 48.4 72.6
175 4.2 3.8 5.8

