

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
 Data File : VL042820.D
 Acq On : 04 Aug 2025 23:38
 Operator : SY/MD
 Sample : Q2750-09DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 05 01:15:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

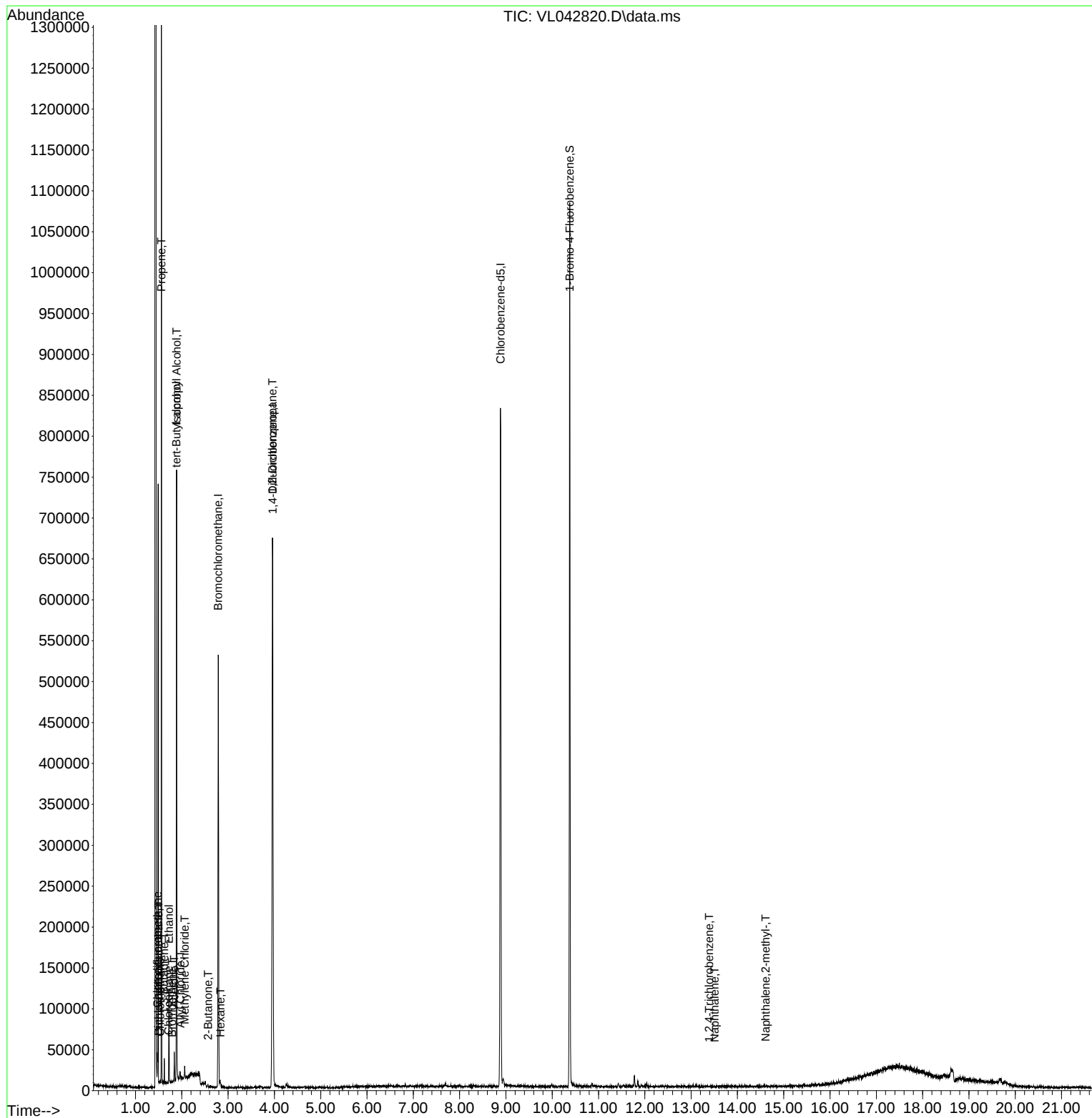
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

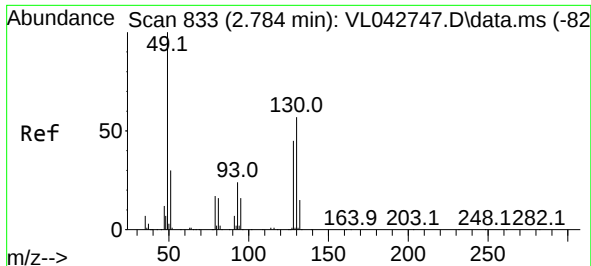
Internal Standards						
1) Bromochloromethane	2.787	49	142414	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	363823	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	316195	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	239599	9.568	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	621	0.033	ppbv #	77
3) Chlorodifluoromethane	1.476	51	11181	0.456	ppbv	96
4) Chloromethane	1.531	50	581	0.076	ppbv #	82
7) Chloroethane	1.712	64	152	0.052	ppbv #	45
9) Propene	1.560	41	202700	22.738	ppbv	96
13) Ethanol	1.722	45	37632	56.823	ppbv	88
14) Bromoethene	1.793	108	118	0.023	ppbv #	1
15) Acetone	1.835	43	15940	0.811	ppbv	95
16) 1,3-Butadiene	1.622	39	2145	0.256	ppbv #	30
17) tert-Butyl alcohol	1.884	59	10707	0.604	ppbv	96
19) Isopropyl Alcohol	1.887	45	298627	28.576	ppbv #	40
20) Methylene Chloride	2.065	84	1818	0.293	ppbv #	64
21) Allyl Chloride	1.968	41	1586	0.131	ppbv #	66
26) Hexane	2.832	57	1562	0.082	ppbv #	39
34) 2-Butanone	2.567	43	1985	0.077	ppbv #	81
39) 1,2-Dichloropropane	3.959	63	94949	7.460	ppbv #	22
79) Naphthalene	13.507	128	10	0.435	ppbv #	1
80) Naphthalene,2-methyl-	14.610	142	24	1.129	ppbv #	35
81) 1,2,4-Trichlorobenzene	13.390	180	55	0.437	ppbv #	58

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

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Aug 05 01:15:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

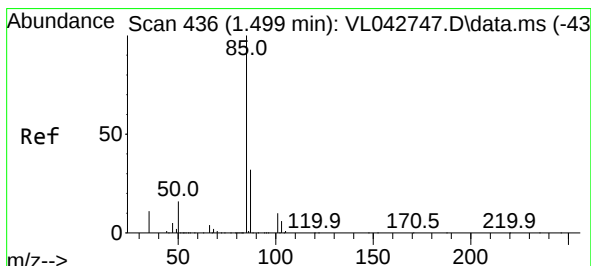
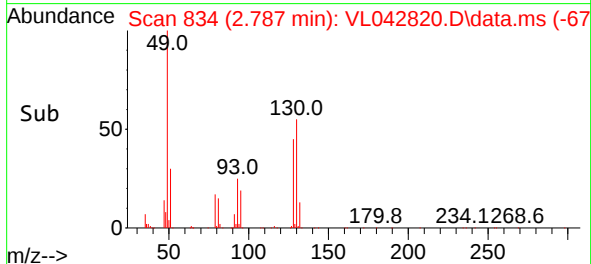
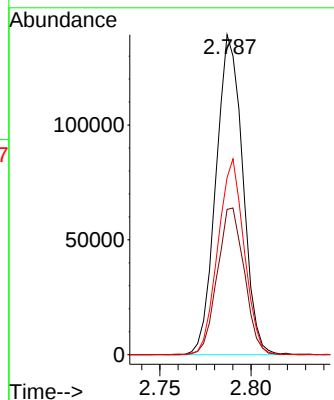
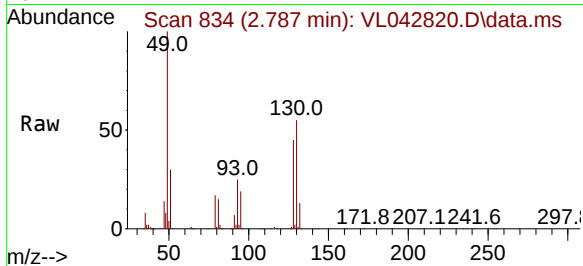




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL042820.D
 Acq: 04 Aug 2025 23:38

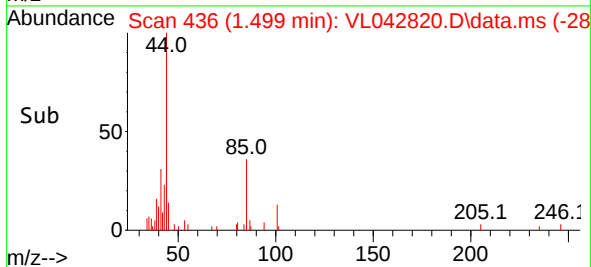
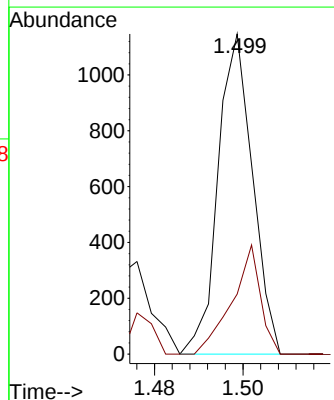
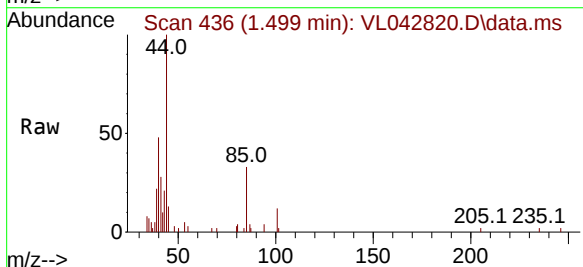
Instrument :
 MSVOA_L
 ClientSampleId :

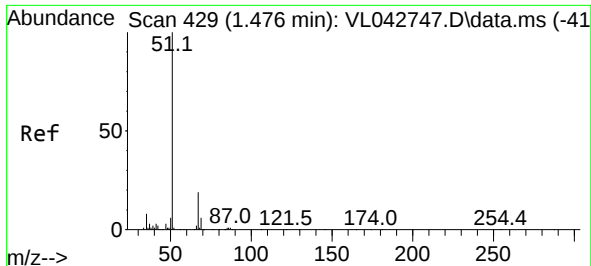
Tgt Ion: 49 Resp: 142414
 Ion Ratio Lower Upper
 49 100
 128 46.3 23.6 71.0
 130 60.0 30.3 90.8



#2
 Dichlorodifluoromethane
 Concen: 0.033 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. -0.000 min
 Lab File: VL042820.D
 Acq: 04 Aug 2025 23:38

Tgt Ion: 85 Resp: 621
 Ion Ratio Lower Upper
 85 100
 87 18.7 25.4 38.2#

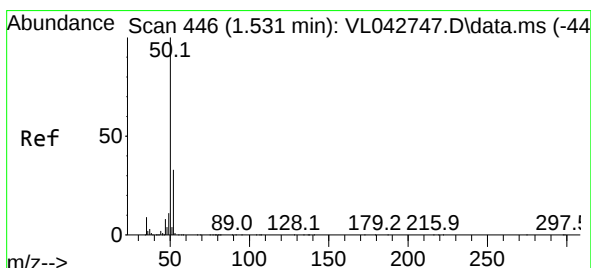
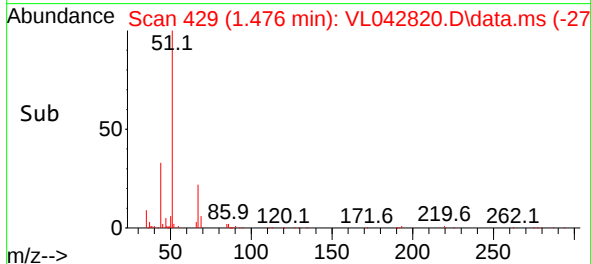
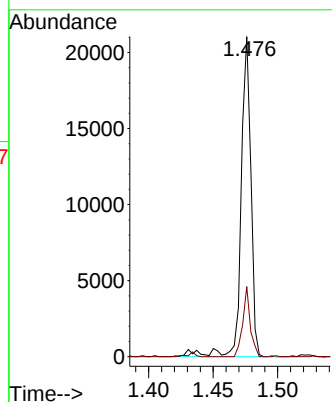
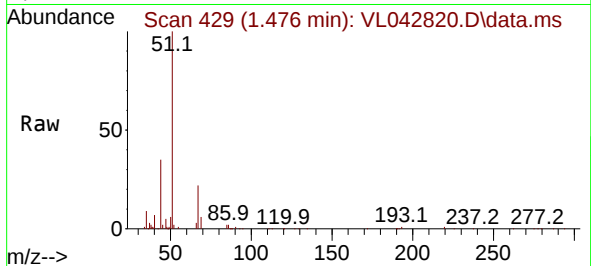




#3
Chlorodifluoromethane
Concen: 0.456 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL042820.D
Acq: 04 Aug 2025 23:38

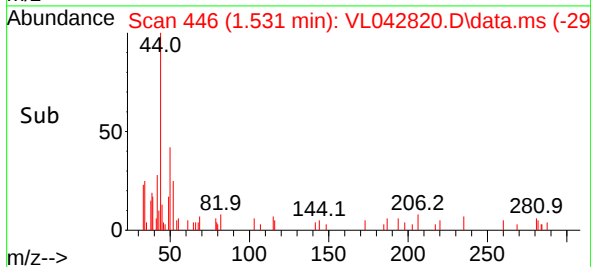
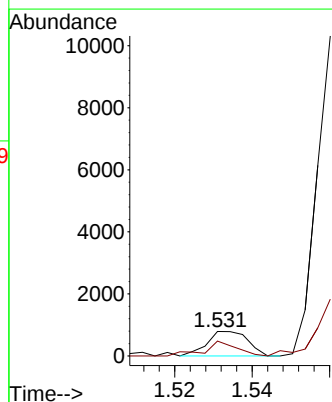
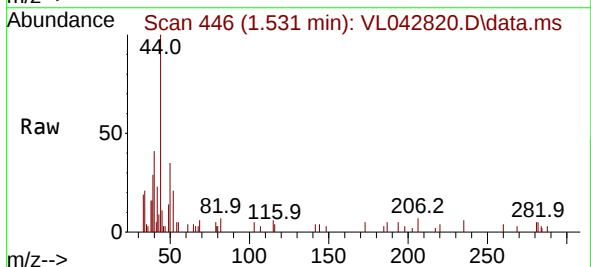
Instrument :
MSVOA_L
ClientSampleId :

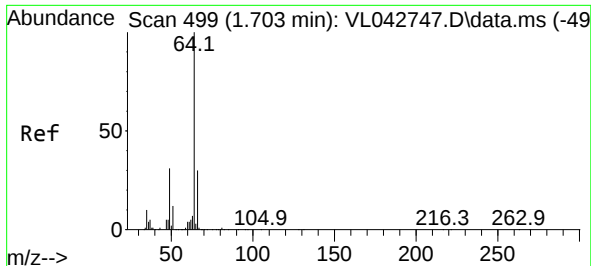
Tgt Ion: 51 Resp: 11181
Ion Ratio Lower Upper
51 100
67 16.9 15.0 22.6



#4
Chloromethane
Concen: 0.076 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042820.D
Acq: 04 Aug 2025 23:38

Tgt Ion: 50 Resp: 581
Ion Ratio Lower Upper
50 100
52 43.4 26.6 40.0#

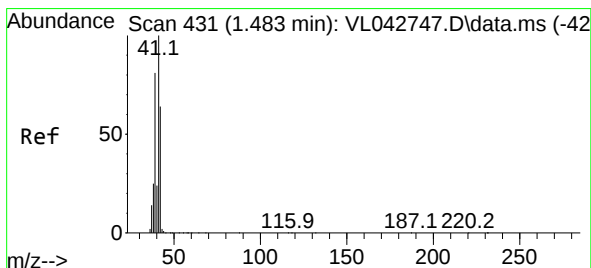
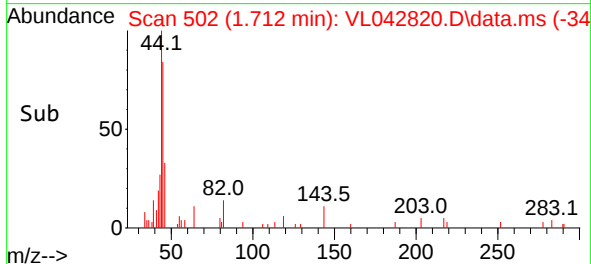
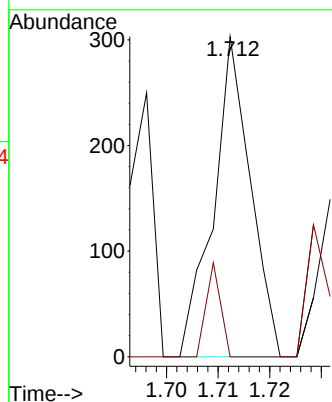
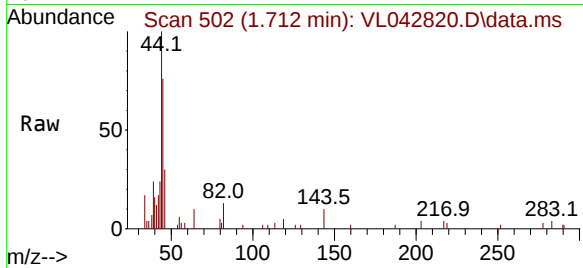




#7
Chloroethane
Concen: 0.052 ppbv
RT: 1.712 min Scan# 50
Delta R.T. 0.010 min
Lab File: VL042820.D
Acq: 04 Aug 2025 23:38

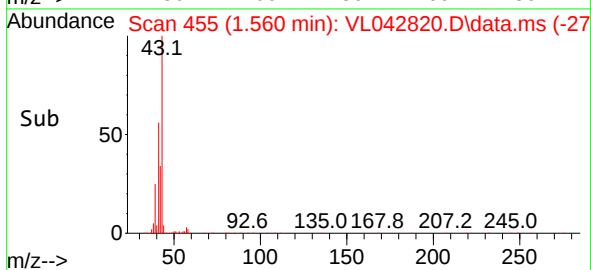
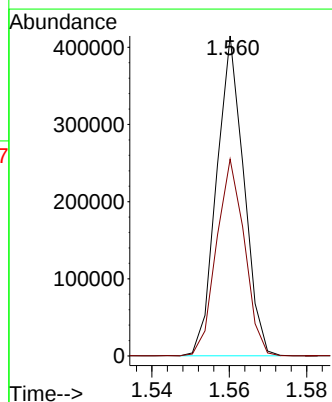
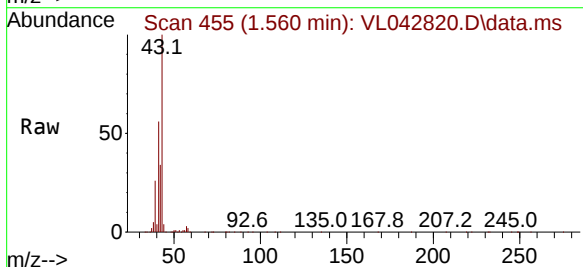
Instrument :
MSVOA_L
ClientSampleId :

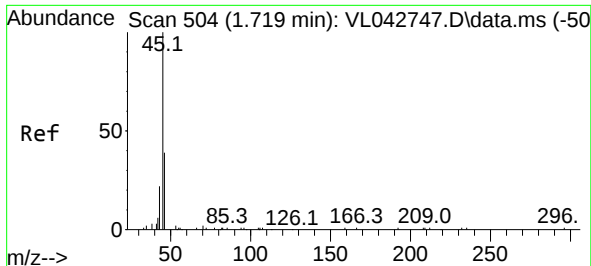
Tgt Ion: 64 Resp: 152
Ion Ratio Lower Upper
64 100
66 0.0 24.1 36.1#



#9
Propene
Concen: 22.738 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.078 min
Lab File: VL042820.D
Acq: 04 Aug 2025 23:38

Tgt Ion: 41 Resp: 202700
Ion Ratio Lower Upper
41 100
42 63.3 53.2 79.8

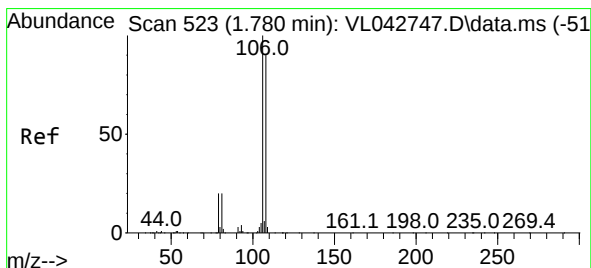
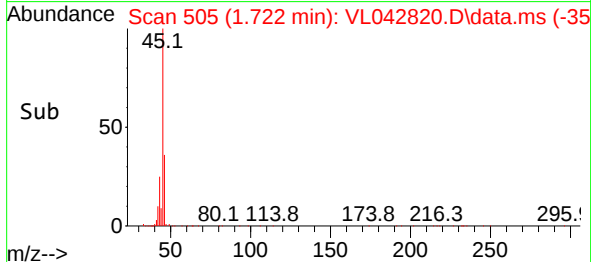
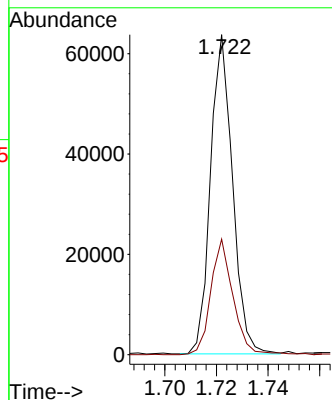
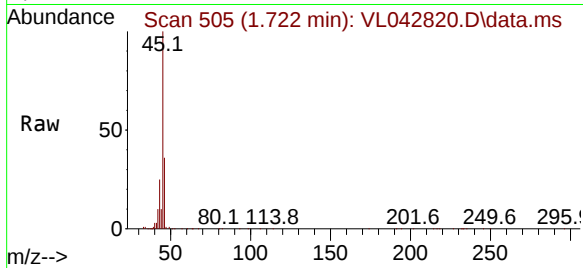




#13
Ethanol
Concen: 56.823 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042820.D
Acq: 04 Aug 2025 23:38

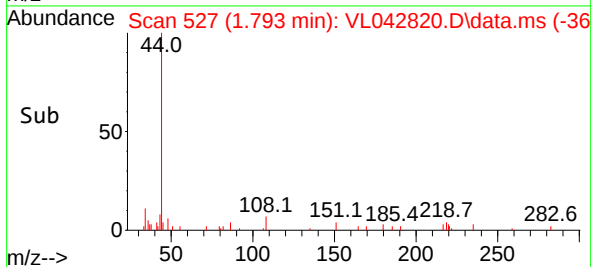
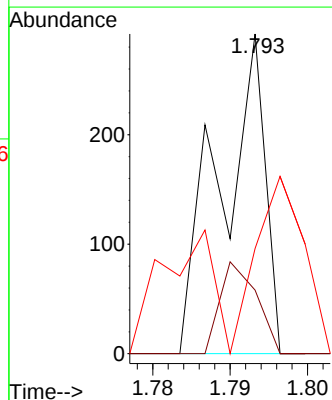
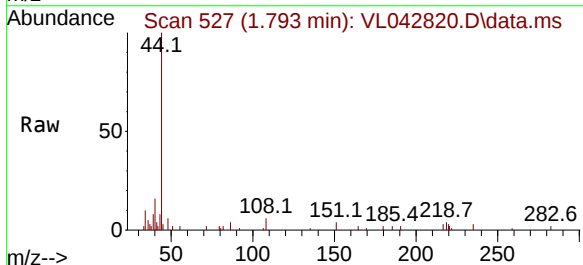
Instrument :
MSVOA_L
ClientSampleId :

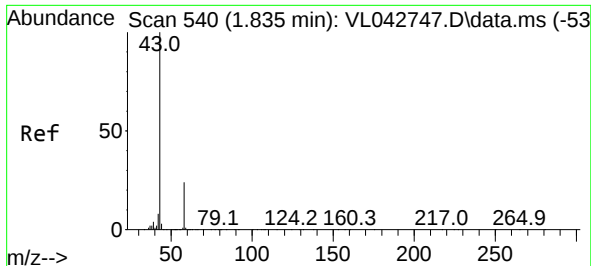
Tgt Ion: 45 Resp: 37632
Ion Ratio Lower Upper
45 100
46 37.0 17.8 71.4



#14
Bromoethene
Concen: 0.023 ppbv
RT: 1.793 min Scan# 527
Delta R.T. 0.013 min
Lab File: VL042820.D
Acq: 04 Aug 2025 23:38

Tgt Ion: 108 Resp: 118
Ion Ratio Lower Upper
108 100
106 0.0 84.7 127.1#
79 211.9 17.4 26.2#





#15

Acetone

Concen: 0.811 ppbv

RT: 1.835 min Scan# 54

Delta R.T. -0.000 min

Lab File: VL042820.D

Acq: 04 Aug 2025 23:38

Instrument :

MSVOA_L

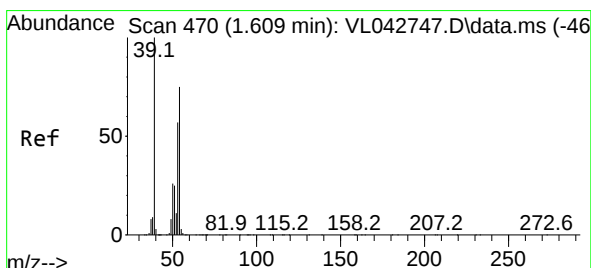
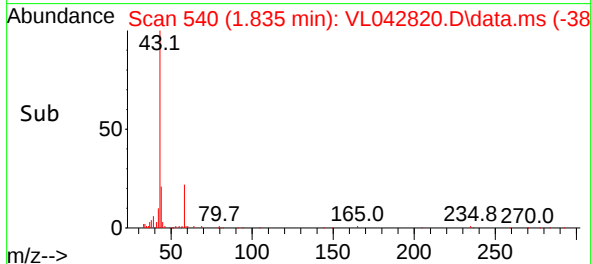
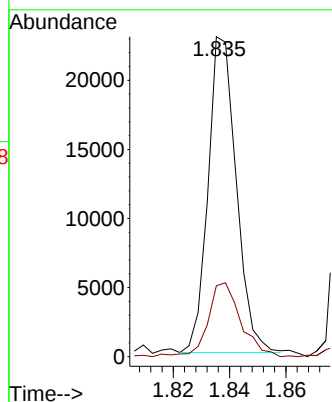
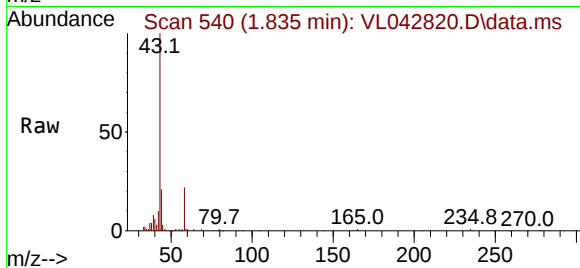
ClientSampleId :

Tgt Ion: 43 Resp: 15940

Ion Ratio Lower Upper

43 100

58 27.3 19.8 29.8



#16

1,3-Butadiene

Concen: 0.256 ppbv

RT: 1.622 min Scan# 474

Delta R.T. 0.013 min

Lab File: VL042820.D

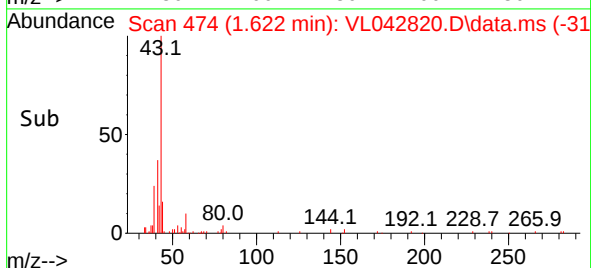
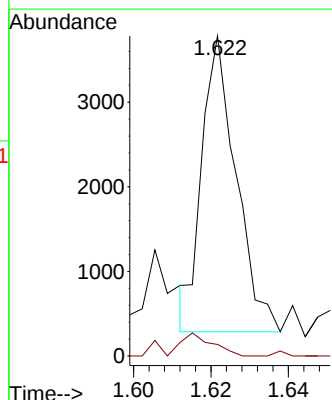
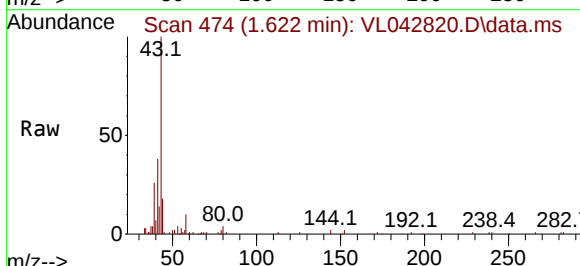
Acq: 04 Aug 2025 23:38

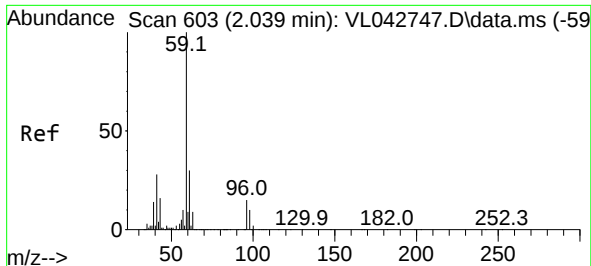
Tgt Ion: 39 Resp: 2145

Ion Ratio Lower Upper

39 100

54 11.5 54.5 81.7#

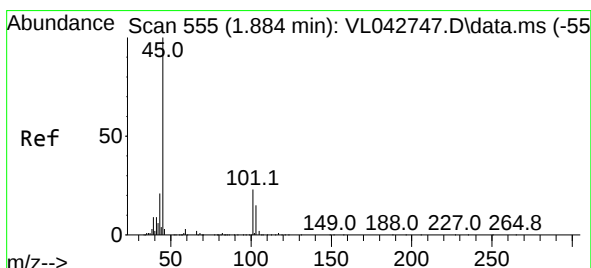
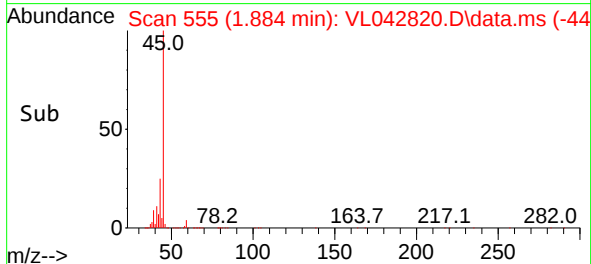
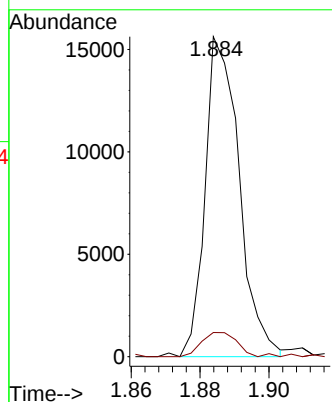
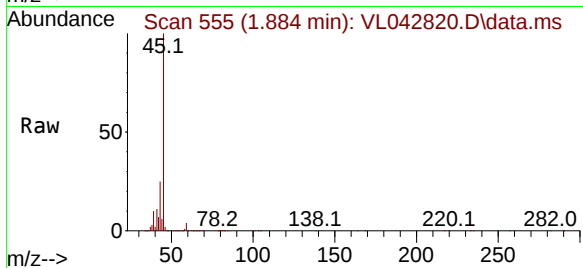




#17
tert-Butyl alcohol
Concen: 0.604 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.156 min
Lab File: VL042820.D
Acq: 04 Aug 2025 23:38

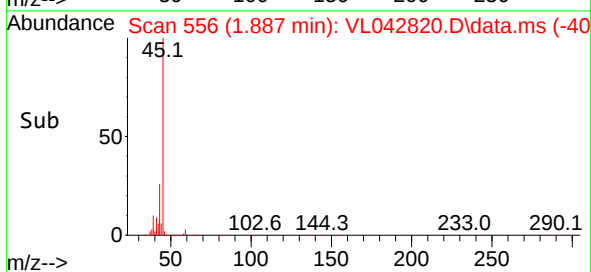
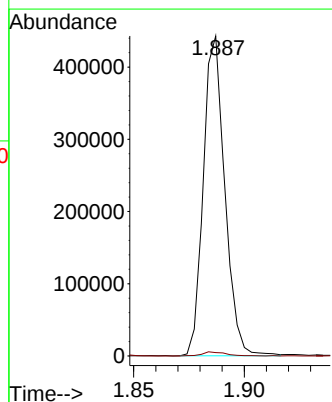
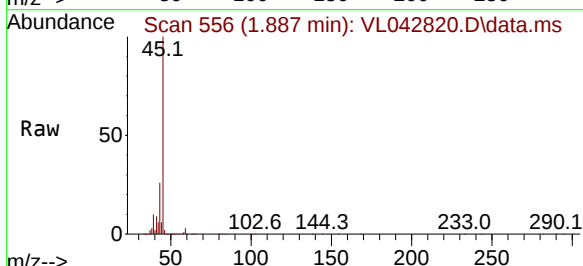
Instrument :
MSVOA_L
ClientSampleId :

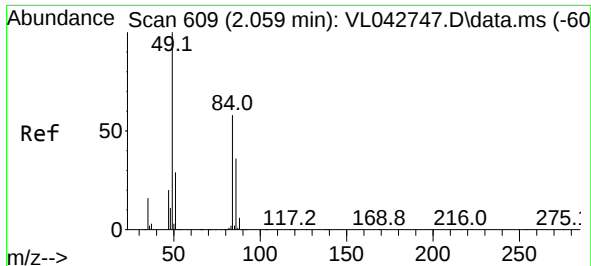
Tgt Ion: 59 Resp: 10707
Ion Ratio Lower Upper
59 100
57 9.0 8.3 12.5



#19
Isopropyl Alcohol
Concen: 28.576 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042820.D
Acq: 04 Aug 2025 23:38

Tgt Ion: 45 Resp: 298627
Ion Ratio Lower Upper
45 100
58 1.5 30.0 45.0#





#20

Methylene Chloride

Concen: 0.293 ppbv

RT: 2.065 min Scan# 611

Delta R.T. 0.006 min

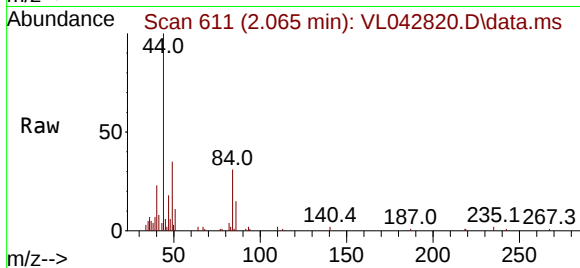
Lab File: VL042820.D

Acq: 04 Aug 2025 23:38

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 84 Resp: 1818

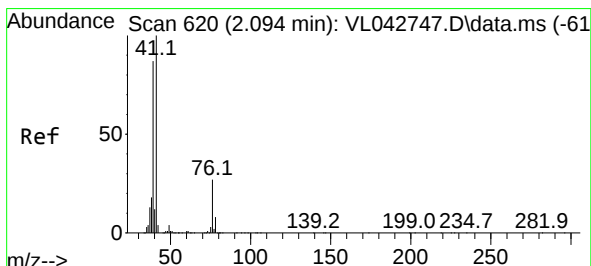
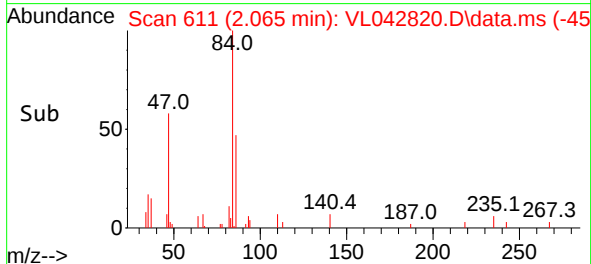
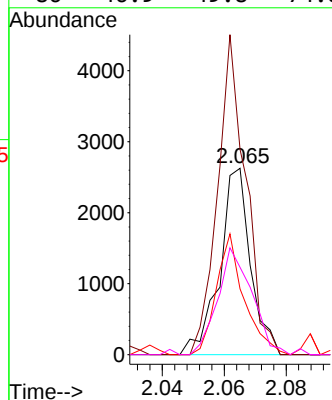
Ion Ratio Lower Upper

84 100

49 110.0 138.6 208.0#

51 35.3 40.6 61.0#

86 46.9 49.8 74.8#



#21

Allyl Chloride

Concen: 0.131 ppbv

RT: 1.968 min Scan# 581

Delta R.T. -0.126 min

Lab File: VL042820.D

Acq: 04 Aug 2025 23:38

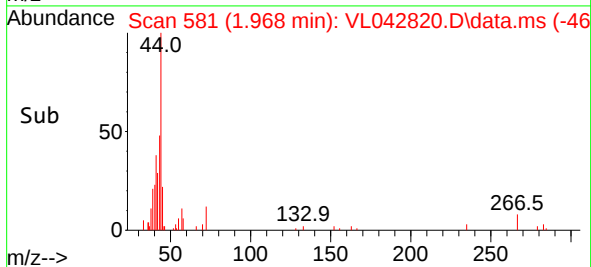
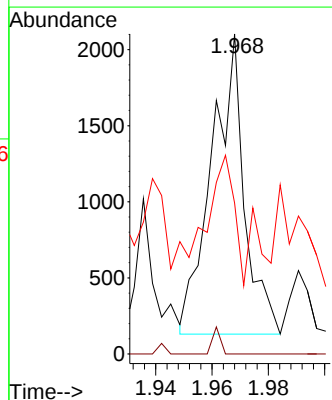
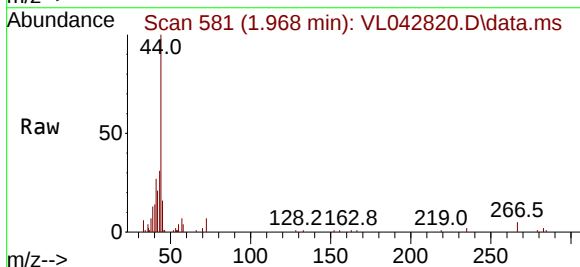
Tgt Ion: 41 Resp: 1586

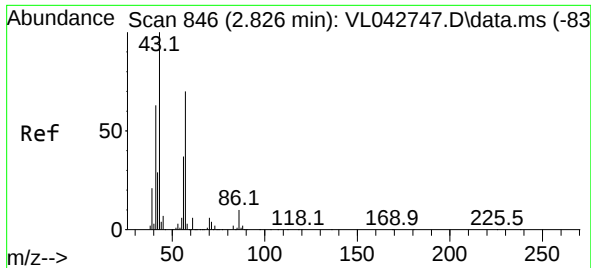
Ion Ratio Lower Upper

41 100

76 0.0 21.1 31.7#

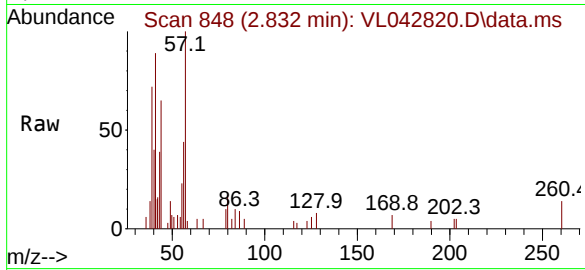
39 111.9 68.3 102.5#



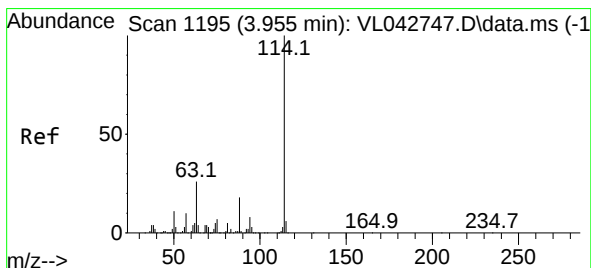
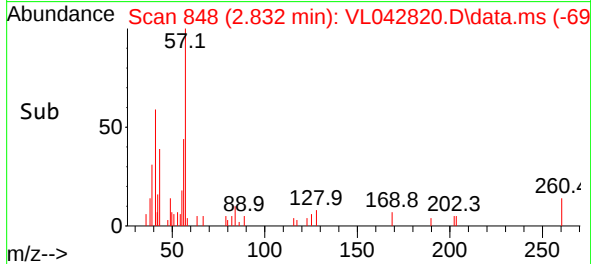
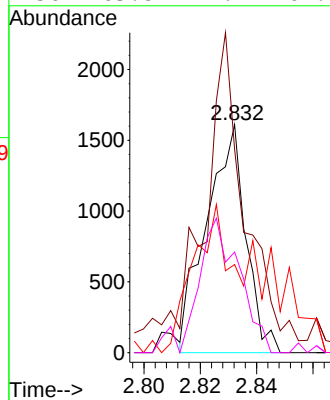


#26
Hexane
Concen: 0.082 ppbv
RT: 2.832 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL042820.D
Acq: 04 Aug 2025 23:38

Instrument :
MSVOA_L
ClientSampleId :

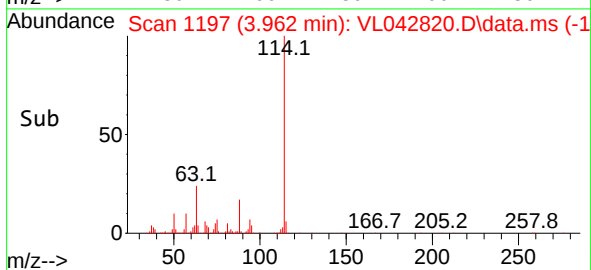
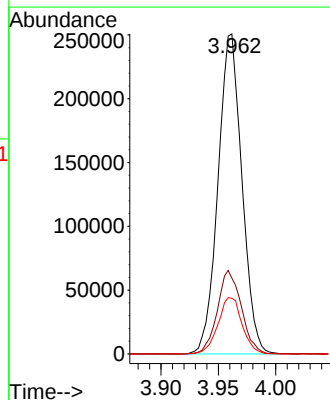
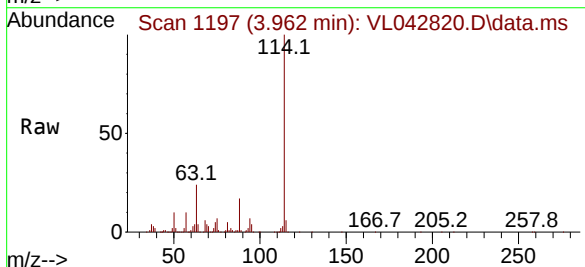


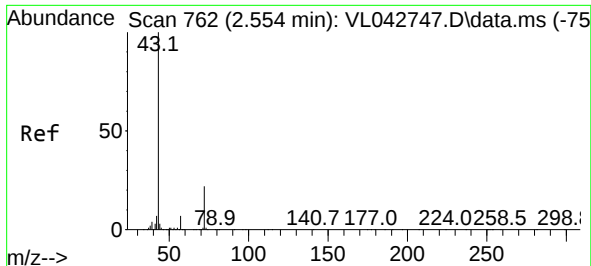
Tgt Ion: 57 Resp: 1562
Ion Ratio Lower Upper
57 100
41 172.3 75.4 113.2#
43 126.2 185.0 277.6#
56 63.8 42.9 64.3



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.006 min
Lab File: VL042820.D
Acq: 04 Aug 2025 23:38

Tgt Ion: 114 Resp: 363823
Ion Ratio Lower Upper
114 100
63 26.2 20.5 30.7
88 17.8 14.0 21.0

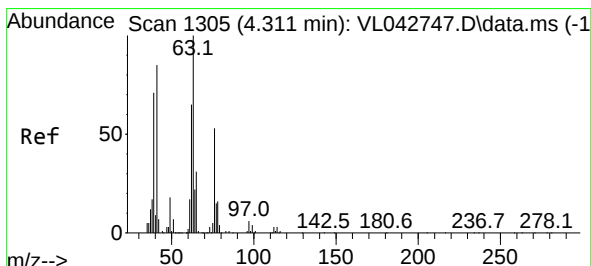
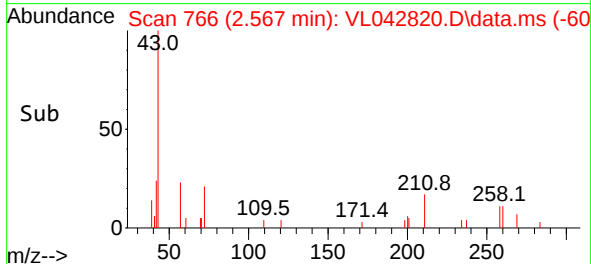
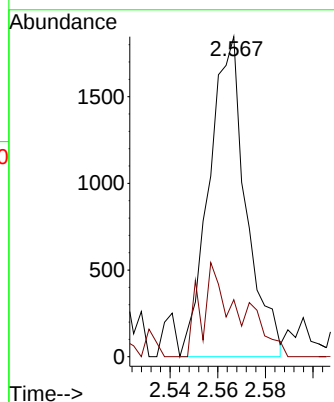
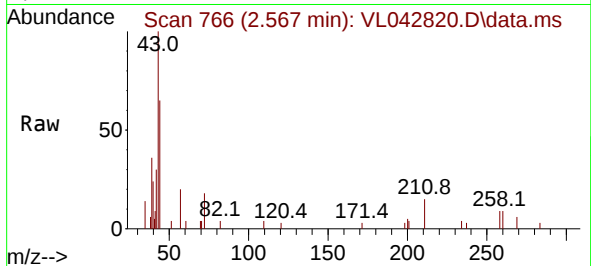




#34
2-Butanone
Concen: 0.077 ppbv
RT: 2.567 min Scan# 71
Delta R.T. 0.013 min
Lab File: VL042820.D
Acq: 04 Aug 2025 23:38

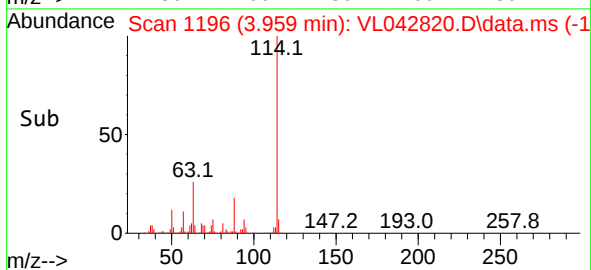
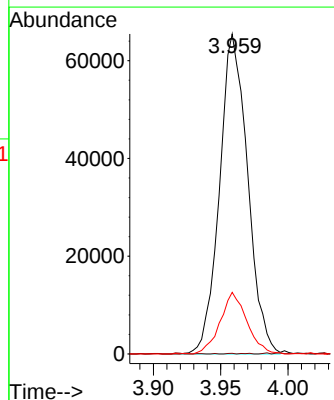
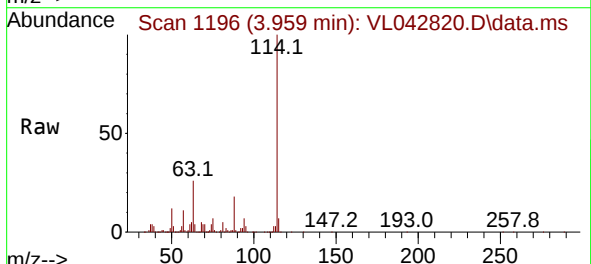
Instrument :
MSVOA_L
ClientSampleId :

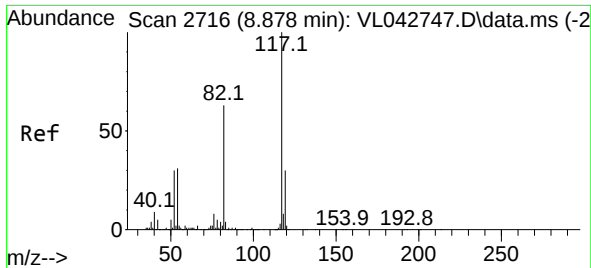
Tgt Ion: 43 Resp: 1985
Ion Ratio Lower Upper
43 100
72 30.5 17.4 26.0#



#39
1,2-Dichloropropane
Concen: 7.460 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042820.D
Acq: 04 Aug 2025 23:38

Tgt Ion: 63 Resp: 94949
Ion Ratio Lower Upper
63 100
41 0.0 68.2 102.4#
62 19.2 52.0 78.0#

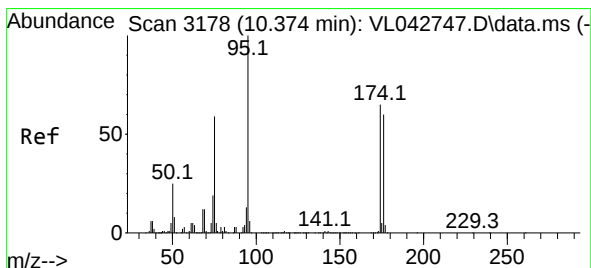
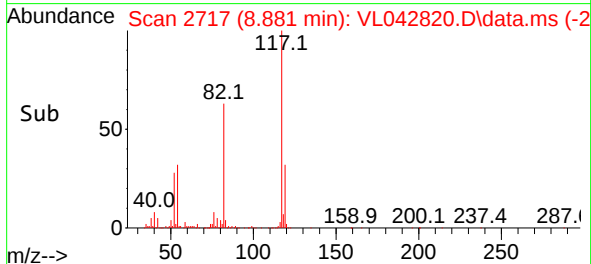
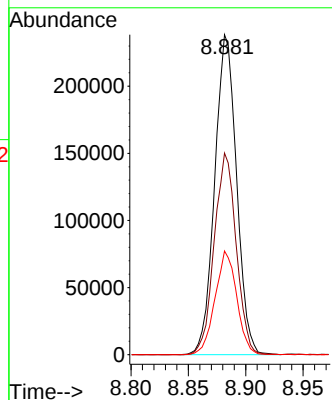
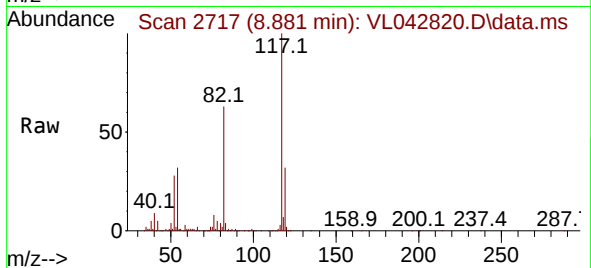




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042820.D
Acq: 04 Aug 2025 23:38

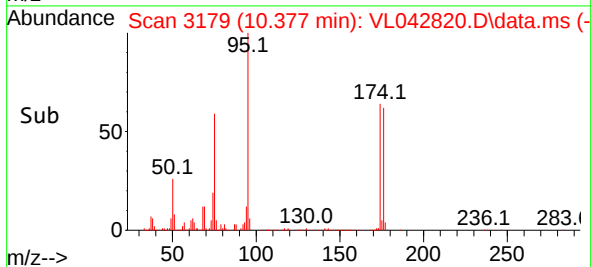
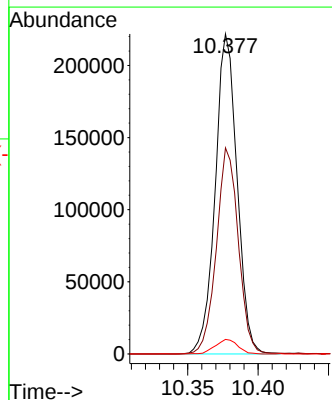
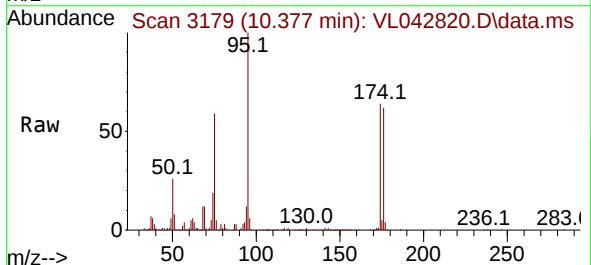
Instrument :
MSVOA_L
ClientSampleId :

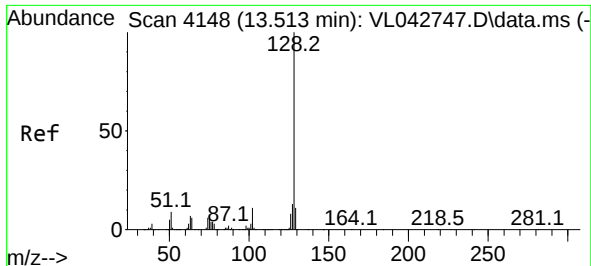
Tgt Ion:117 Resp: 316195
Ion Ratio Lower Upper
117 100
82 63.3 53.3 79.9
119 32.3 25.8 38.6



#68
1-Bromo-4-Fluorobenzene
Concen: 9.568 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL042820.D
Acq: 04 Aug 2025 23:38

Tgt Ion: 95 Resp: 239599
Ion Ratio Lower Upper
95 100
174 64.9 53.8 80.6
175 4.7 4.0 6.0

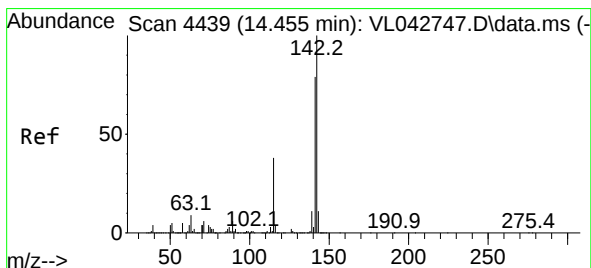
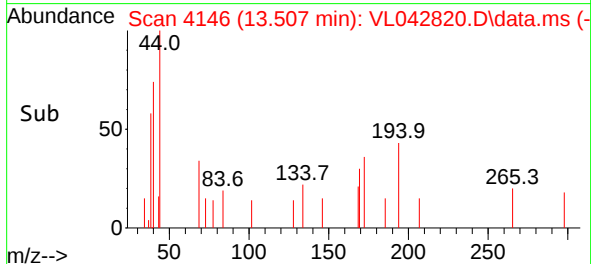
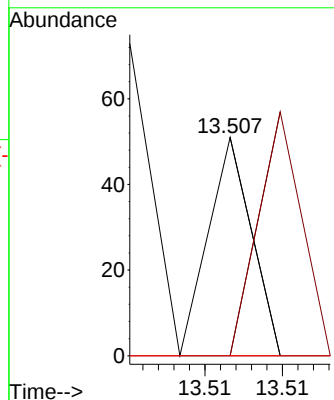
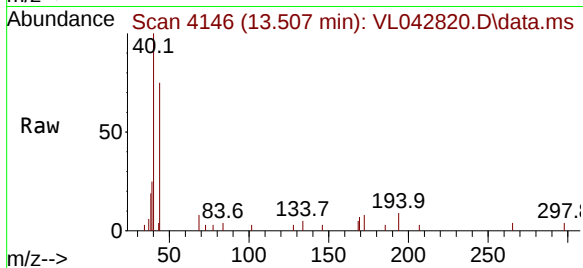




#79
Naphthalene
Concen: 0.435 ppbv
RT: 13.507 min Scan# 4148
Delta R.T. -0.007 min
Lab File: VL042820.D
Acq: 04 Aug 2025 23:38

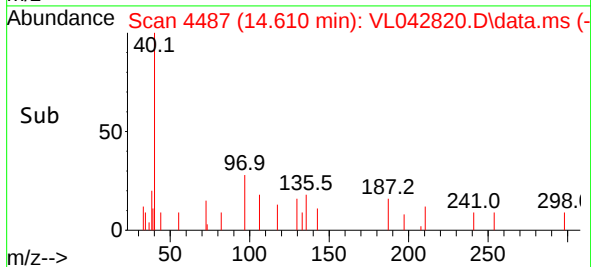
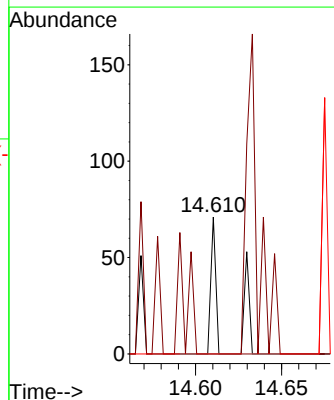
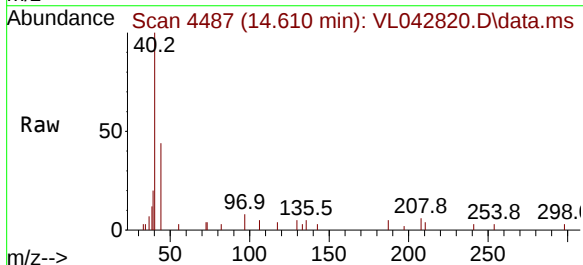
Instrument :
MSVOA_L
ClientSampleId :

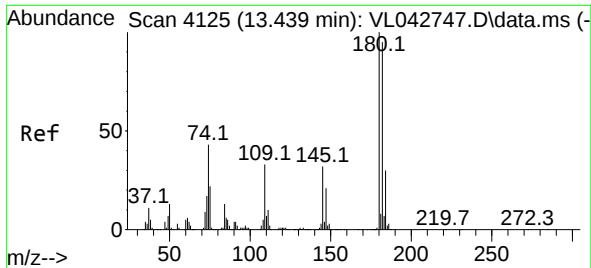
Tgt Ion:128 Resp: 10
Ion Ratio Lower Upper
128 100
127 100.0 10.5 15.7#
129 0.0 8.6 13.0#



#80
Naphthalene,2-methyl-
Concen: 1.129 ppbv
RT: 14.610 min Scan# 4487
Delta R.T. 0.155 min
Lab File: VL042820.D
Acq: 04 Aug 2025 23:38

Tgt Ion:142 Resp: 24
Ion Ratio Lower Upper
142 100
141 141.7 65.8 98.8#
115 0.0 31.2 46.8#





#81

1,2,4-Trichlorobenzene

Concen: 0.437 ppbv

RT: 13.390 min Scan# 41

Delta R.T. -0.049 min

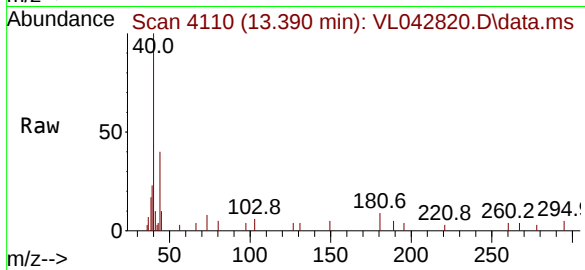
Lab File: VL042820.D

Acq: 04 Aug 2025 23:38

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:180 Resp: 55

Ion Ratio Lower Upper

180 100

182 116.4 76.2 114.2#

184 89.1 24.8 37.2#

