

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052322\
 Data File : VL039107.D
 Acq On : 24 May 2022 6:23
 Operator : SY/AP
 Sample : N2957-04DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 APB-1DL

Quant Time: May 24 08:44:59 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 05 10:12:15 2022
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1183969	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	2803911	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	2448591	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.39	95	1899788	9.80	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.00%	

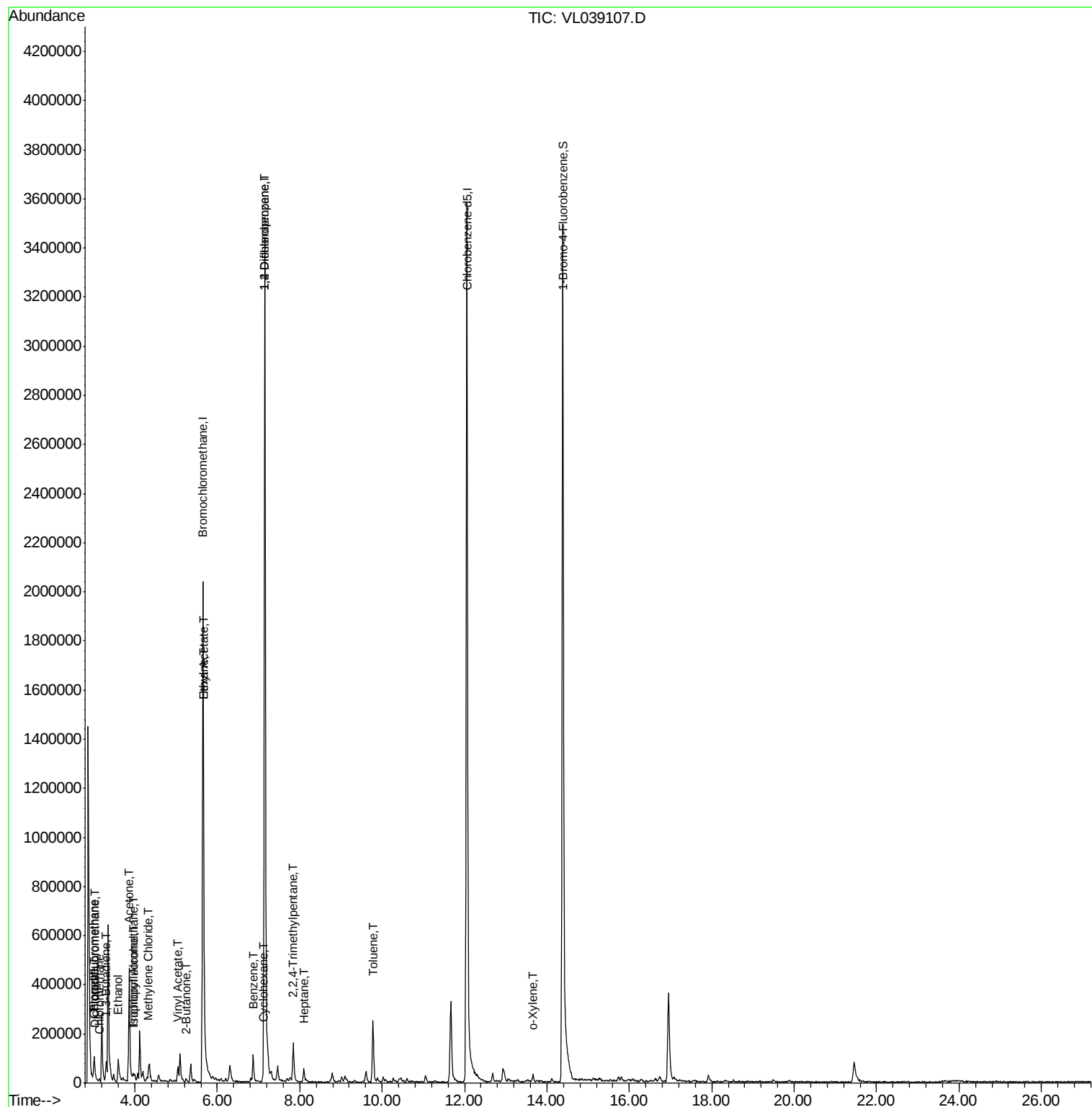
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	13484	0.073	ppbv	94
3) Chlorodifluoromethane	2.99	51	28945	0.197	ppbv #	78
4) Chloromethane	3.13	50	4392	0.060	ppbv	97
9) Propene	3.01	41	49777	0.776	ppbv	89
10) Heptane	8.10	43	21998	0.140	ppbv	89
11) Trichlorofluoromethane	3.94	101	7455	0.047	ppbv #	83
13) Ethanol	3.59	45	110721	24.386	ppbv	98
15) Acetone	3.86	43	259411	2.323	ppbv #	80
16) 1,3-Butadiene	3.31	39	5382	0.084	ppbv #	1
19) Isopropyl Alcohol	3.96	45	32610	0.614	ppbv #	87
20) Methylene Chloride	4.33	84	20780	0.494	ppbv #	90
23) Vinyl Acetate	5.04	43	21038	0.238	ppbv #	1
25) Ethyl Acetate	5.67	43	43489	0.163	ppbv #	82
26) Hexane	5.67	57	56572	0.476	ppbv #	42
30) Cyclohexane	7.11	84	4013	0.040	ppbv #	1
34) 2-Butanone	5.24	43	10153	0.071	ppbv #	31
36) Benzene	6.87	78	92259	0.384	ppbv	95
39) 1,2-Dichloropropane	7.15	63	755435	8.091	ppbv #	26
44) 2,2,4-Trimethylpentane	7.85	57	144091	0.342	ppbv	93
53) Toluene	9.78	91	174821	0.650	ppbv	98
60) o-Xylene	13.66	91	12782	0.045	ppbv #	60

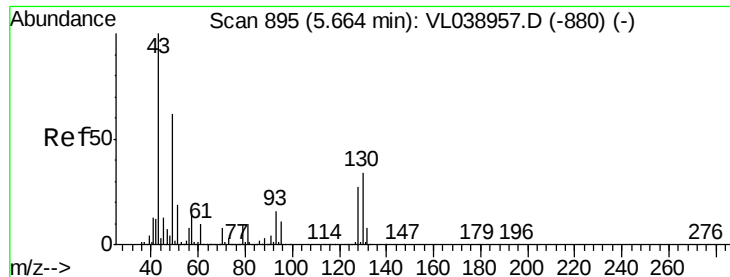
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu May 05 10:12:15 2022
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: APB-1DL

Acq: 24 May 2022 8:23

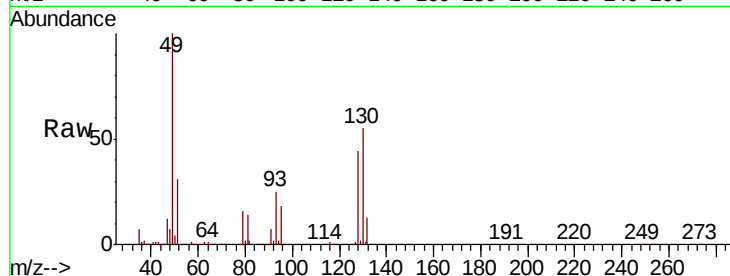
Tot Ion: 49 Resp: 1183969

Ion Ratio Lower Upper

49 100

128 47.9 23.3 69.8

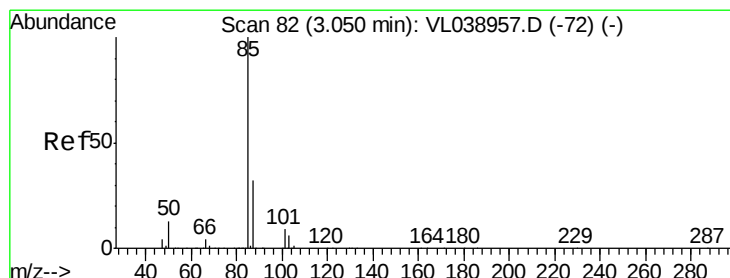
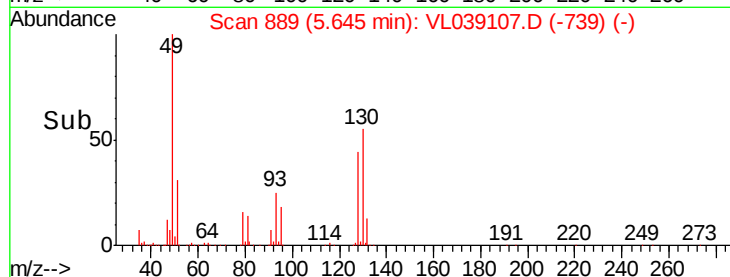
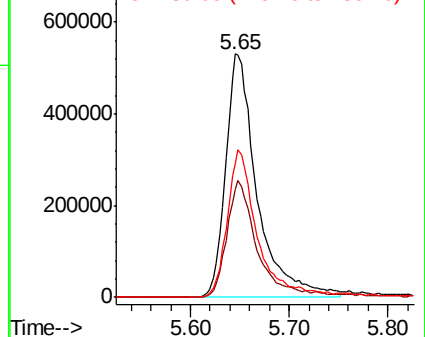
130 60.3 29.8 89.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.073 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL039107.D

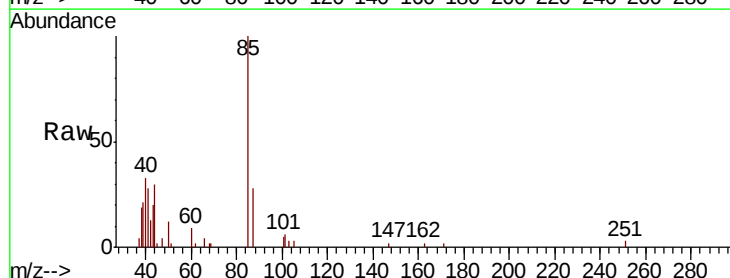
Acq: 24 May 2022 6:23

Tgt Ion: 85 Resp: 13484

Ion Ratio Lower Upper

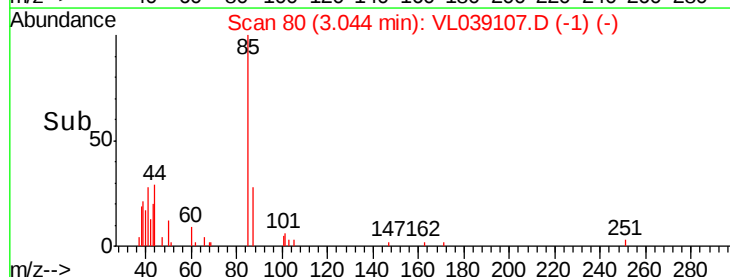
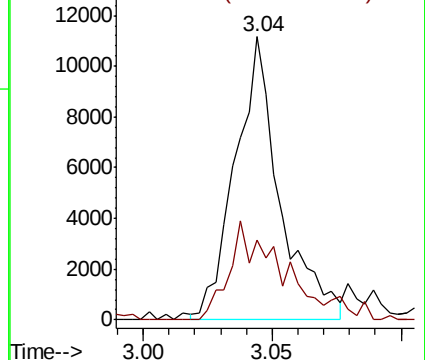
85 100

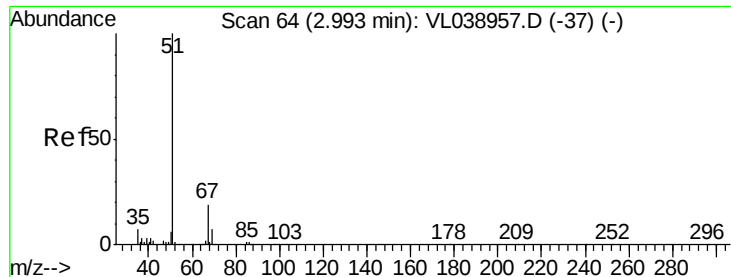
87 28.7 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

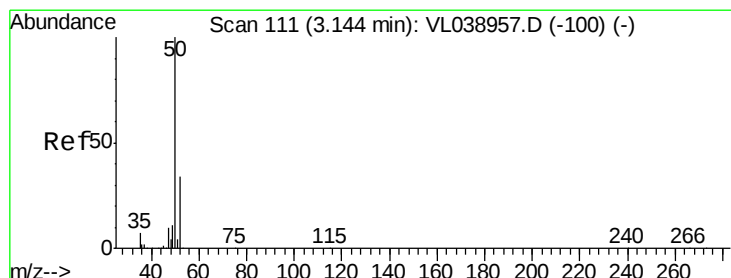
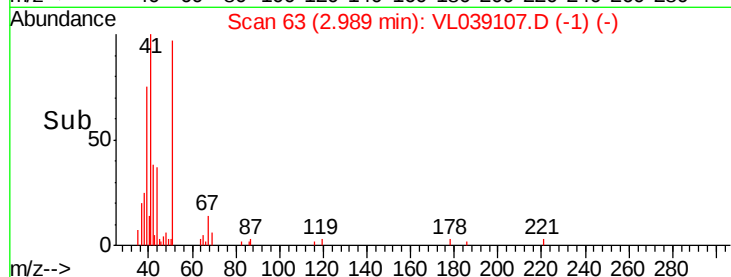
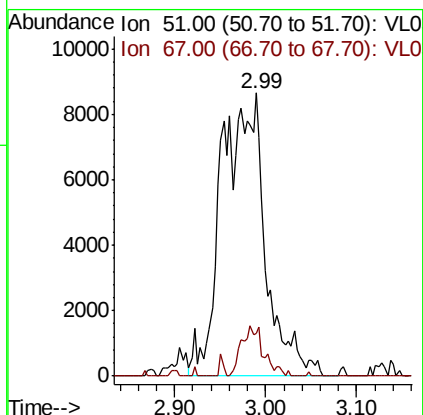
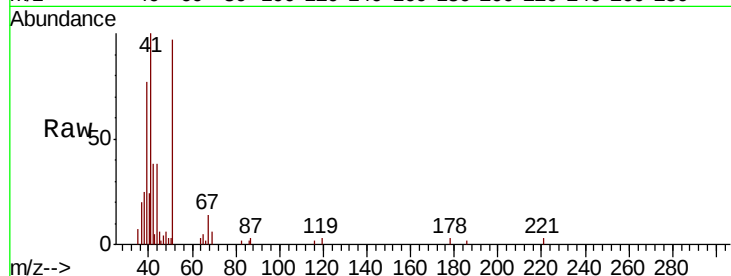
Ion 87.00 (86.70 to 87.70): VL0





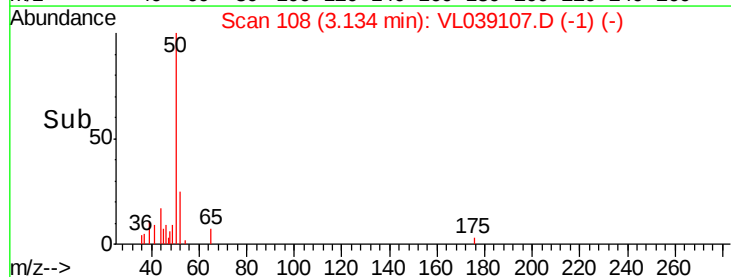
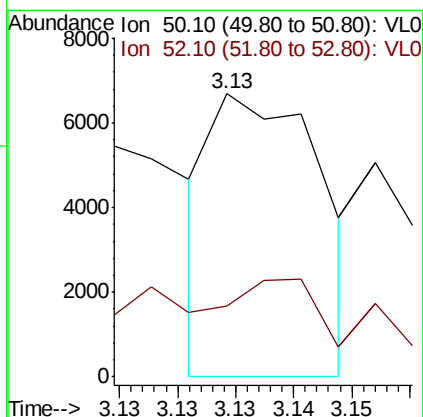
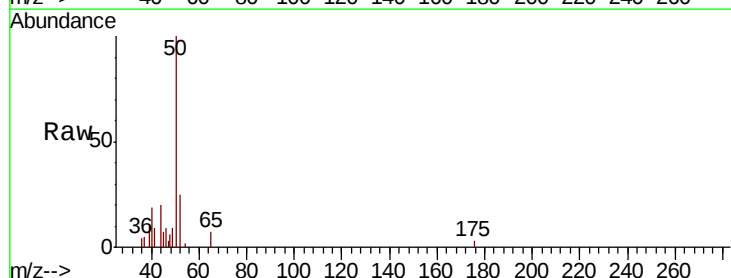
#3
Chlorodifluoromethane
Concen: 0.197 ppbv
RT: 2.99
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 May 2022 8:23

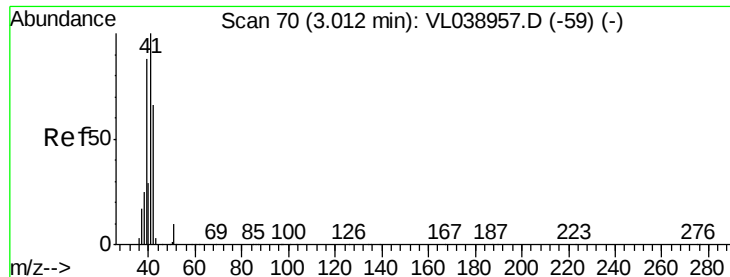
Tot Ion: 51 Resp: 28945
Ion Ratio Lower Upper
51 100
67 9.7 15.8 23.8#



#4
Chloromethane
Concen: 0.060 ppbv
RT: 3.13 min Scan# 108
Delta R.T. -0.01 min
Lab File: VL039107.D
Acq: 24 May 2022 6:23

Tgt Ion: 50 Resp: 4392
Ion Ratio Lower Upper
50 100
52 32.4 27.3 40.9





#9

Propene

Concen: 0.776 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

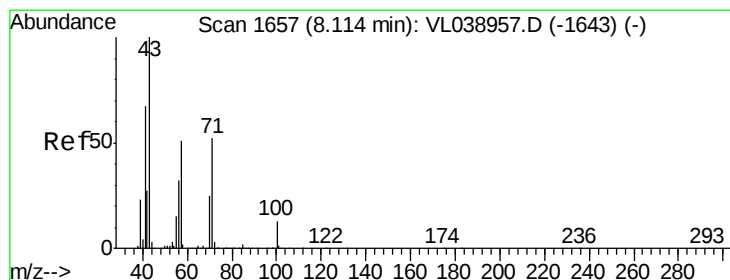
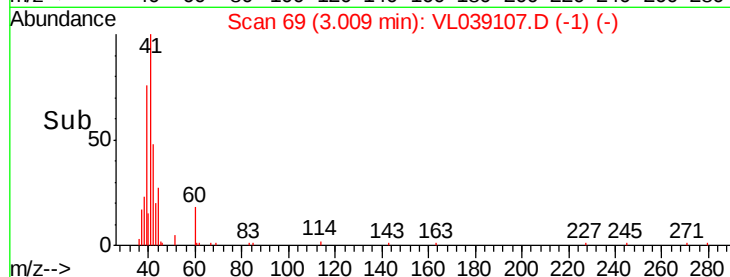
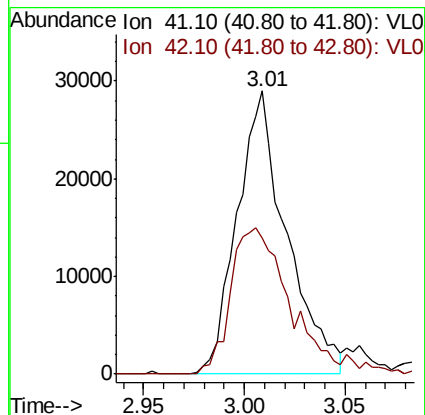
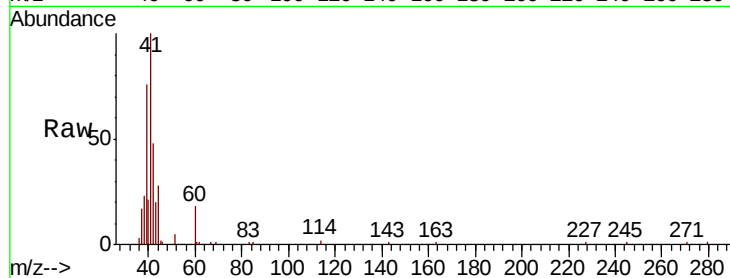
Acq: 24 May 2022 8:23

Tot Ion: 41 Resp: 49777

Ion Ratio Lower Upper

41 100

42 63.8 58.3 87.5



#10

Heptane

Concen: 0.140 ppbv

RT: 8.10 min Scan# 1652

Delta R.T. -0.02 min

Lab File: VL039107.D

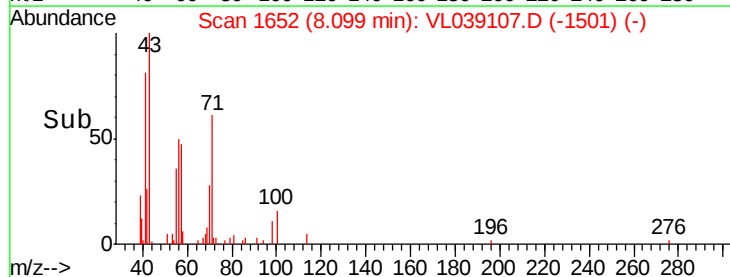
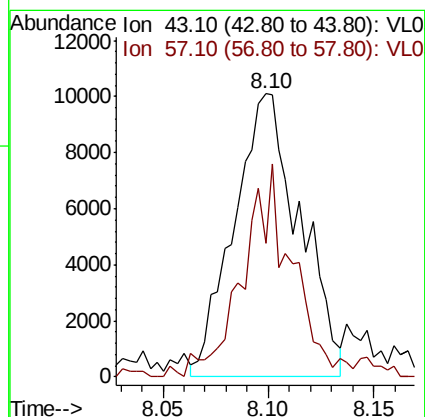
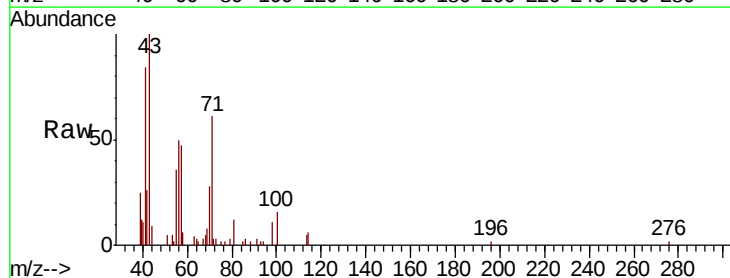
Acq: 24 May 2022 6:23

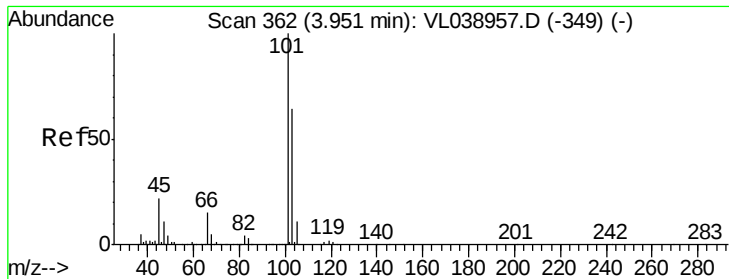
Tgt Ion: 43 Resp: 21998

Ion Ratio Lower Upper

43 100

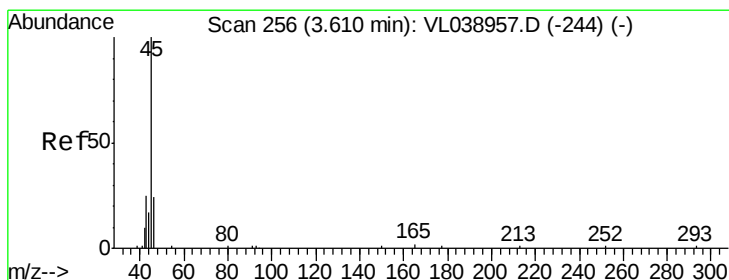
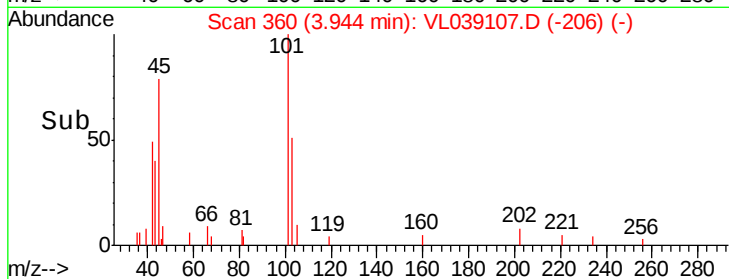
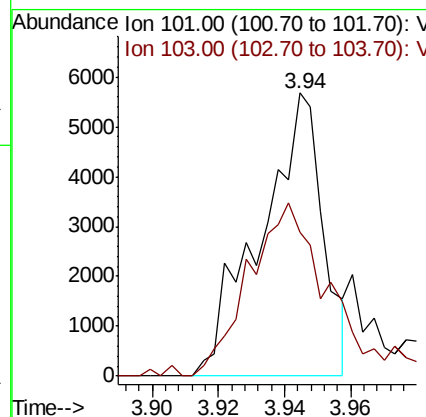
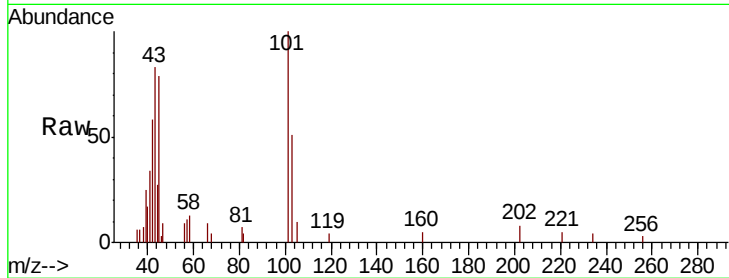
57 58.1 40.5 60.7





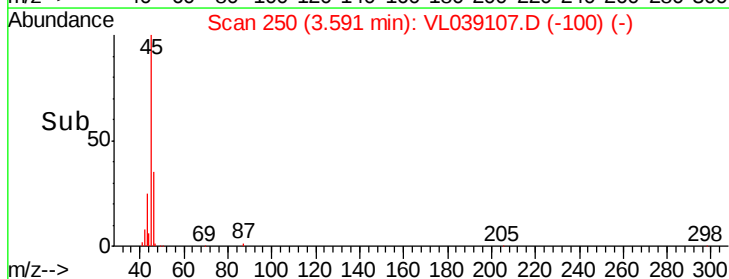
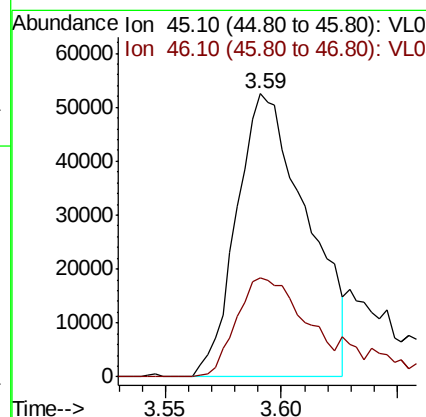
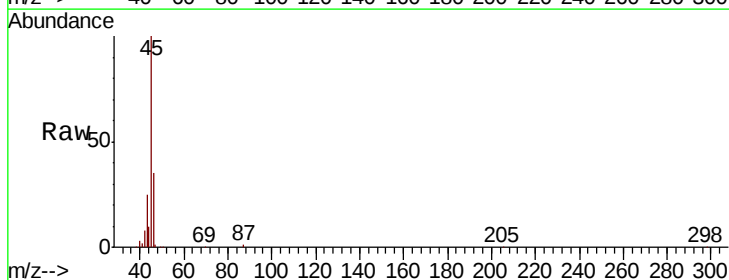
#11
 Trichlorofluoromethane
 Concen: 0.047 ppbv
 RT: 3.94
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 APB-1DL
 Acq: 24 May 2022 8:23

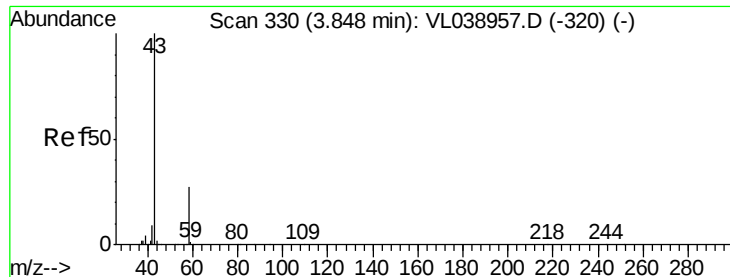
Tot Ion: 101 Resp: 7455
 Ion Ratio Lower Upper
 101 100
 103 50.9 51.5 77.3#



#13
 Ethanol
 Concen: 24.386 ppbv
 RT: 3.59 min Scan# 250
 Delta R.T. -0.02 min
 Lab File: VL039107.D
 Acq: 24 May 2022 6:23

Tgt Ion: 45 Resp: 110721
 Ion Ratio Lower Upper
 45 100
 46 44.0 18.0 72.2





#15

Acetone

Concen: 2.323 ppbv

RT: 3.86 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

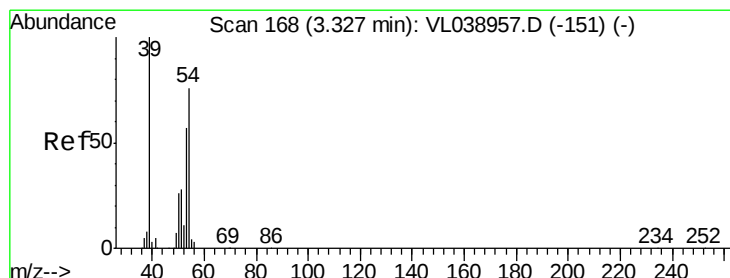
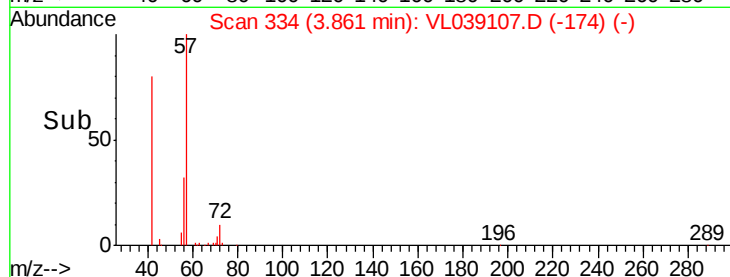
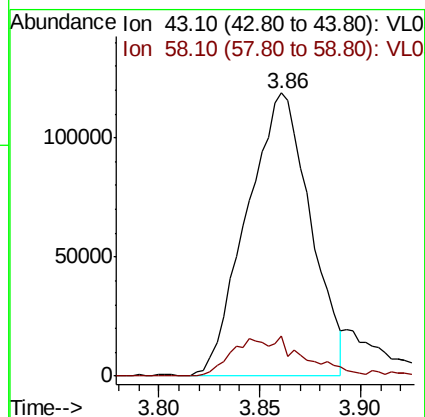
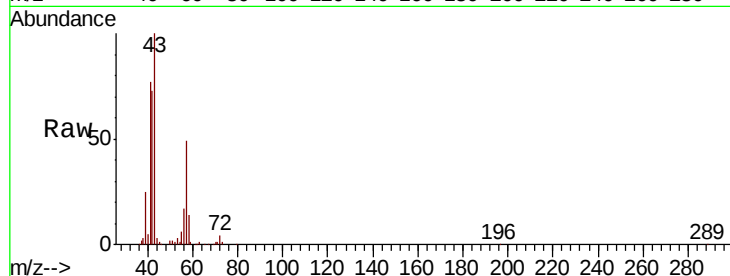
Acq: 24 May 2022 8:23

Tot Ion: 43 Resp: 259411

Ion Ratio Lower Upper

43 100

58 16.4 21.3 31.9#



#16

1,3-Butadiene

Concen: 0.084 ppbv

RT: 3.31 min Scan# 163

Delta R.T. -0.02 min

Lab File: VL039107.D

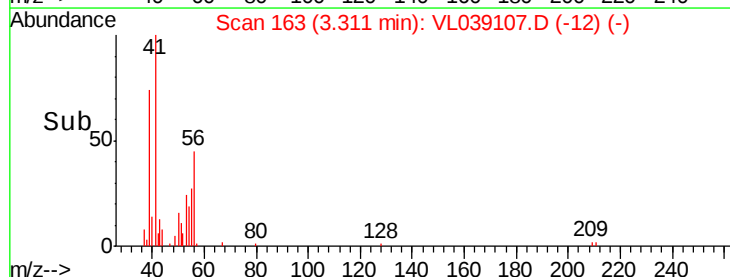
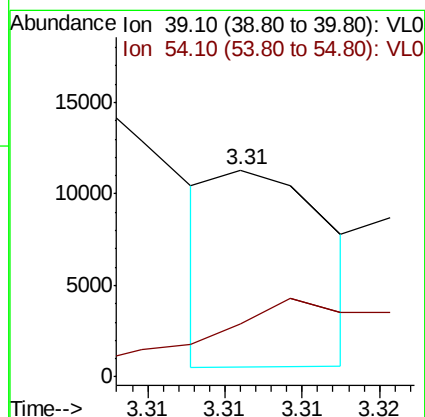
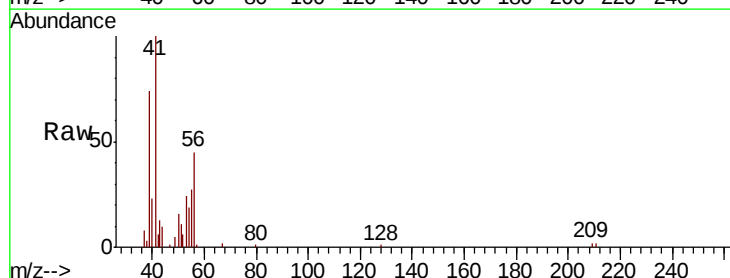
Acq: 24 May 2022 6:23

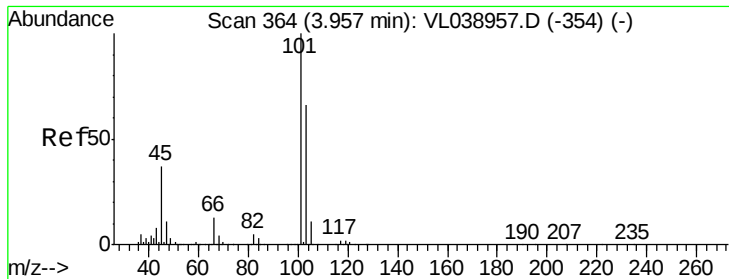
Tgt Ion: 39 Resp: 5382

Ion Ratio Lower Upper

39 100

54 188.4 65.2 97.8#





#19

Isopropyl Alcohol

Concen: 0.614 ppbv

RT: 3.96 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

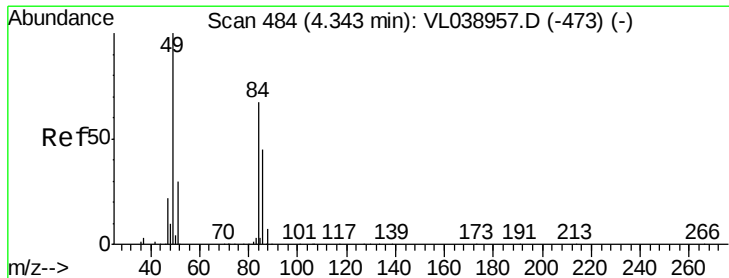
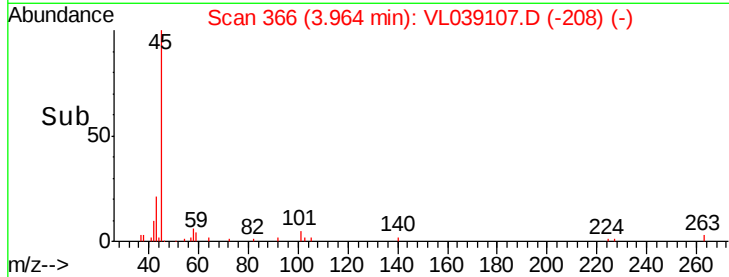
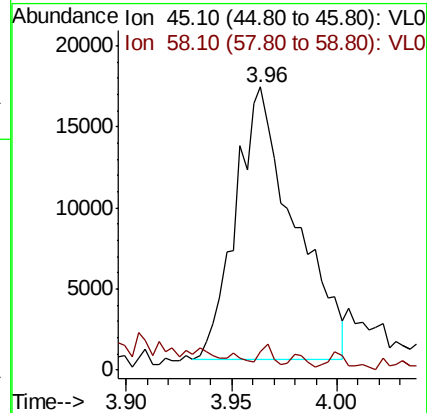
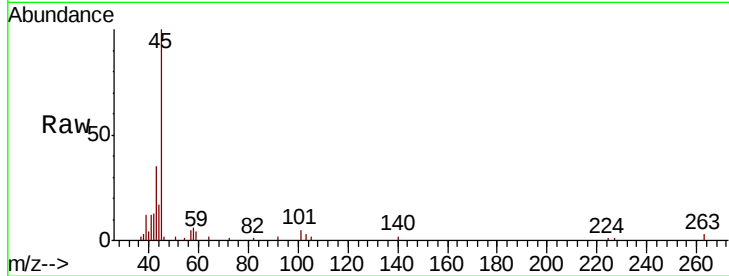
Acq: 24 May 2022 8:23

Tot Ion: 45 Resp: 32610

Ion Ratio Lower Upper

45 100

58 6.7 1.4 2.2#



#20

Methylene Chloride

Concen: 0.494 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.01 min

Lab File: VL039107.D

Acq: 24 May 2022 6:23

Tgt Ion: 84 Resp: 20780

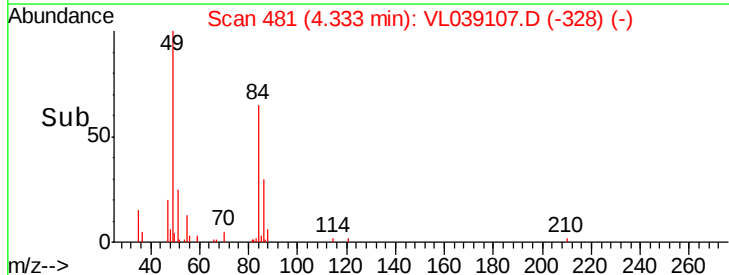
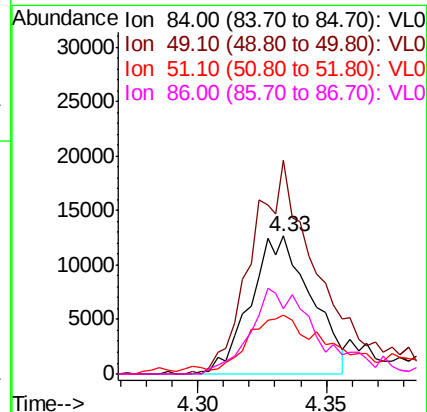
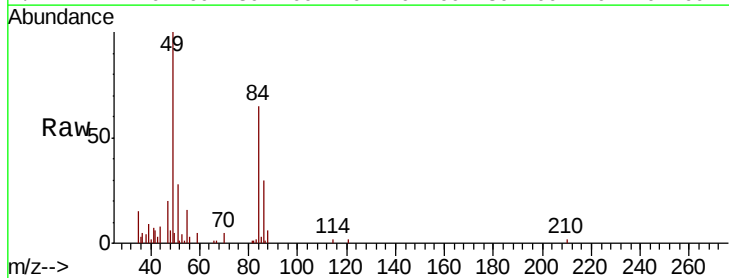
Ion Ratio Lower Upper

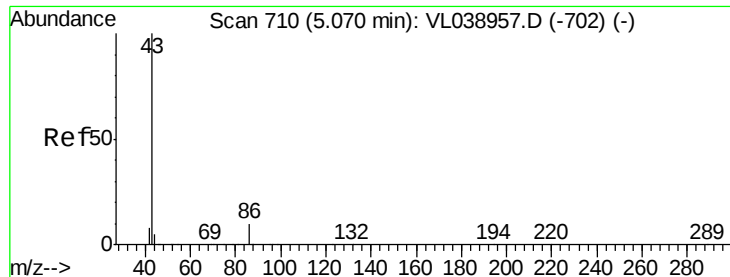
84 100

49 152.8 119.9 179.9

51 37.1 35.7 53.5

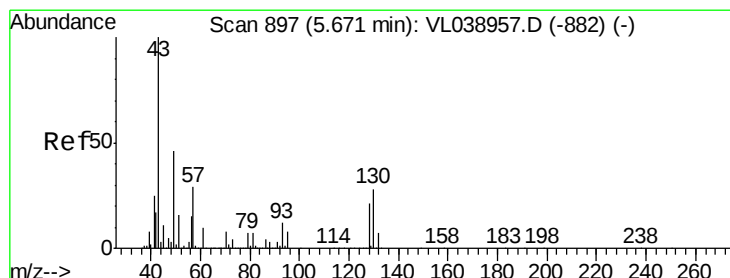
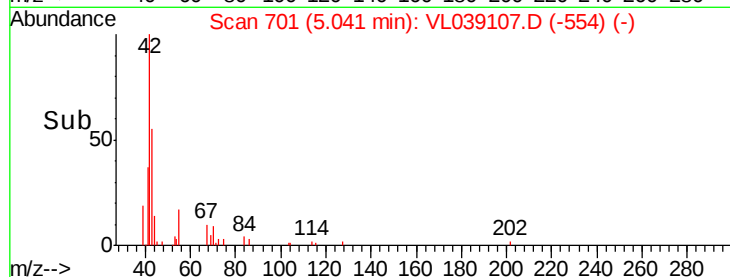
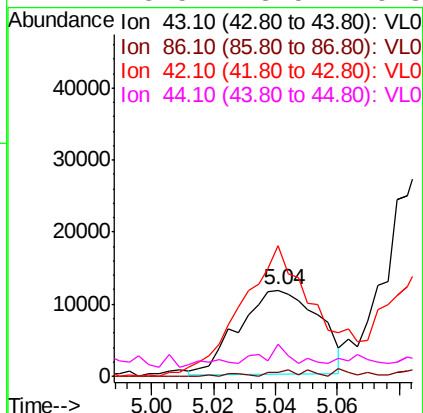
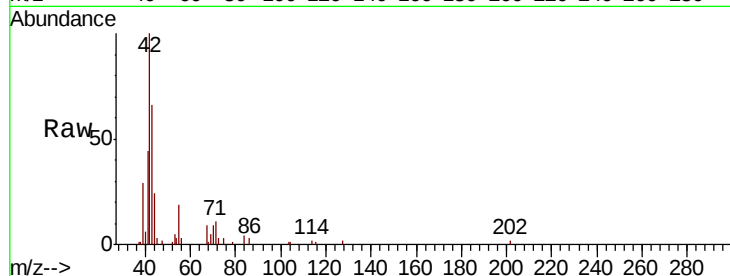
86 47.0 53.8 80.6#





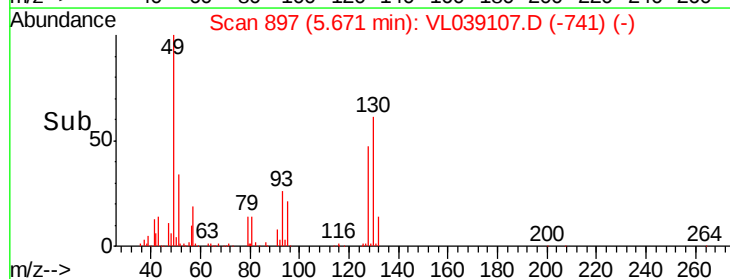
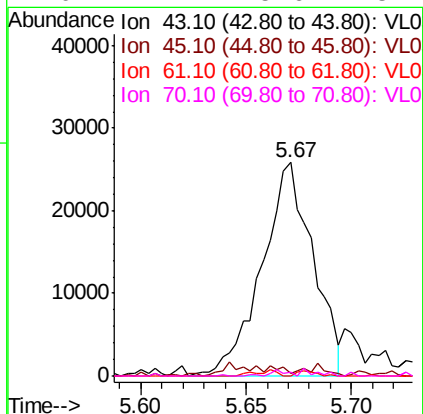
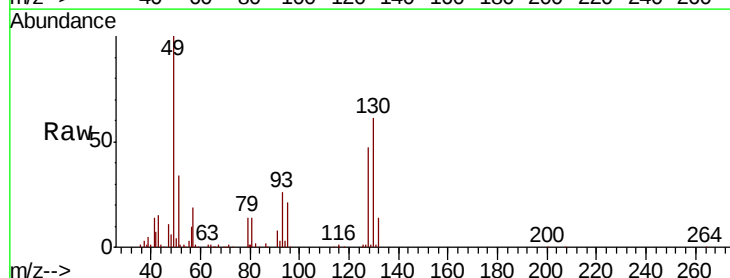
#23
 Vinyl Acetate
 Concen: 0.238 ppbv
 RT: 5.04
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 APB-1DL
 Acq: 24 May 2022 8:23

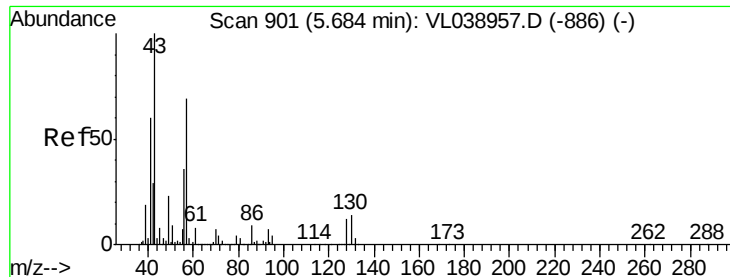
Tot Ion:	43	Resp:	21038
Ion	Ratio	Lower	Upper
43	100		
86	4.3	6.6	9.8#
42	151.4	8.1	12.1#
44	25.5	3.5	5.3#



#25
 Ethyl Acetate
 Concen: 0.163 ppbv
 RT: 5.67 min Scan# 897
 Delta R.T. 0.00 min
 Lab File: VL039107.D
 Acq: 24 May 2022 6:23

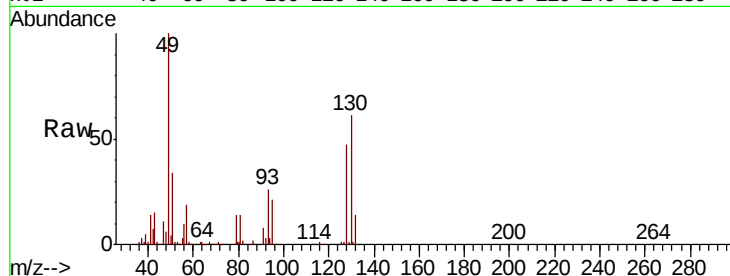
Tgt Ion:	43	Resp:	43489
Ion	Ratio	Lower	Upper
43	100		
45	3.1	8.1	12.1#
61	2.1	7.8	11.6#
70	2.2	5.6	8.4#





#26
Hexane
Concen: 0.476 ppbv
RT: 5.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 May 2022 8:23

Tot Ion	57	Resp	56572
Ion	Ratio	Lower	Upper
57	100		
41	106.7	75.2	112.8
43	92.9	190.8	286.2#
56	63.6	43.0	64.6



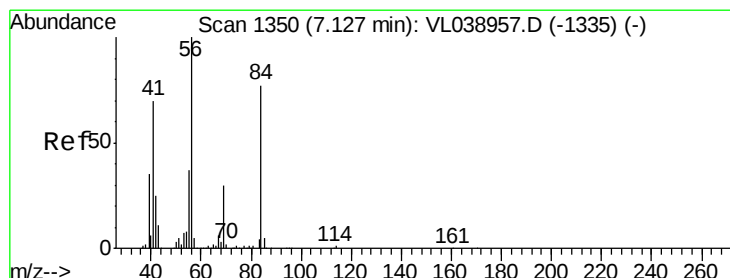
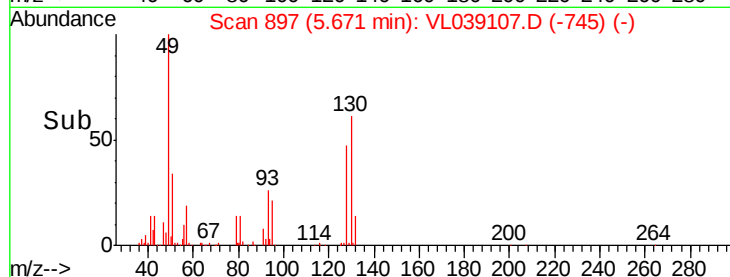
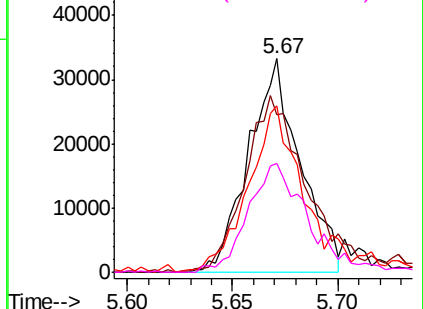
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

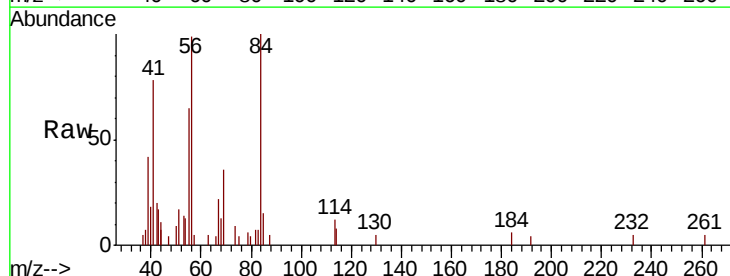
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#30
Cyclohexane
Concen: 0.040 ppbv
RT: 7.11 min Scan# 1343
Delta R.T. -0.02 min
Lab File: VL039107.D
Acq: 24 May 2022 6:23

Tgt Ion	84	Resp	4013
Ion	Ratio	Lower	Upper
84	100		
56	0.0	115.3	172.9#
41	203.1	72.0	108.0#

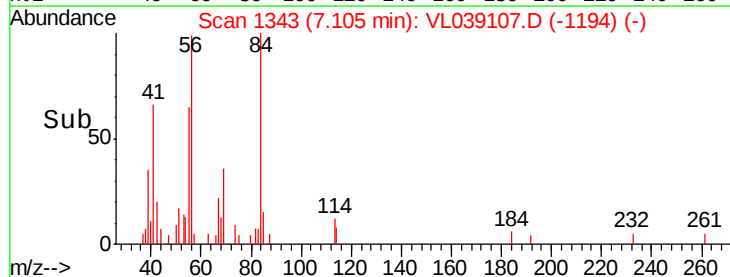
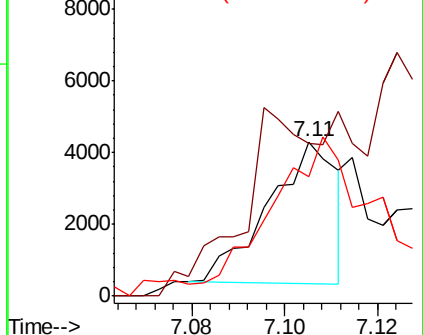


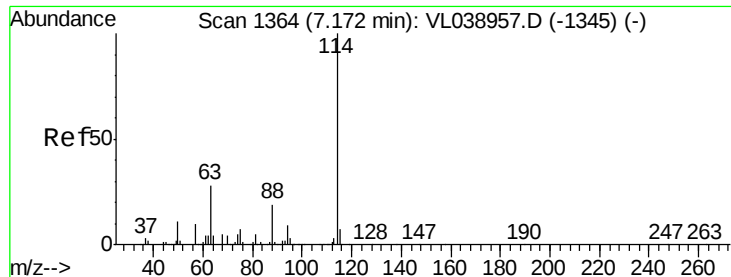
Abundance

Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 Instrument: MSVOA_L

Delta R.T. ClientSampleId:

Lab File: APB-1DL

Acq: 24 May 2022 8:23

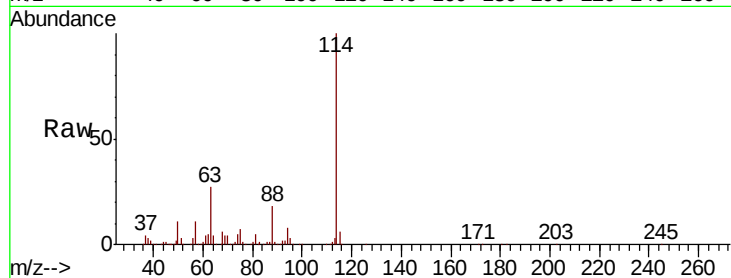
Tot Ion:114 Resp: 2803911

Ion Ratio Lower Upper

114 100

63 27.8 22.6 33.8

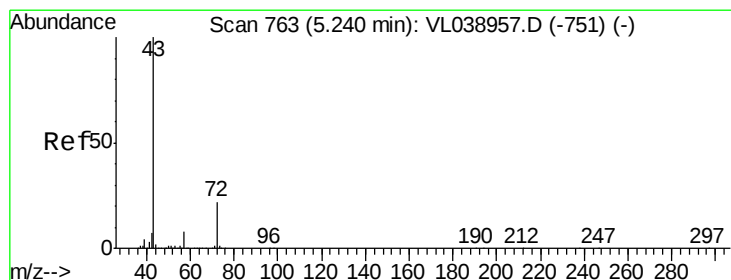
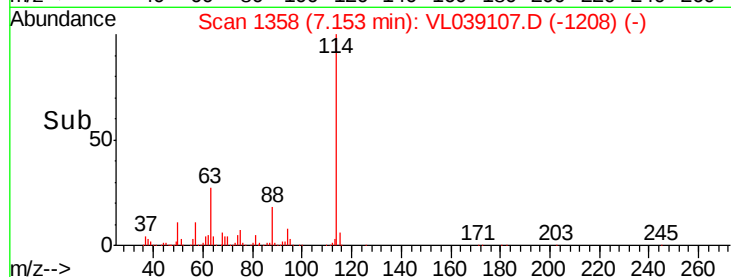
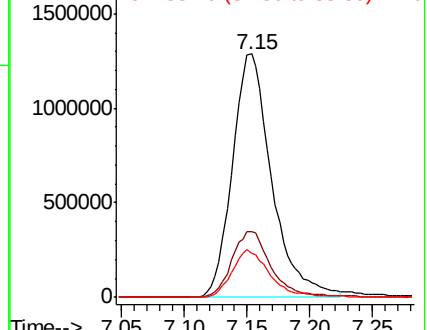
88 19.2 15.4 23.0



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.071 ppbv

RT: 5.24 min Scan# 762

Delta R.T. -0.00 min

Lab File: VL039107.D

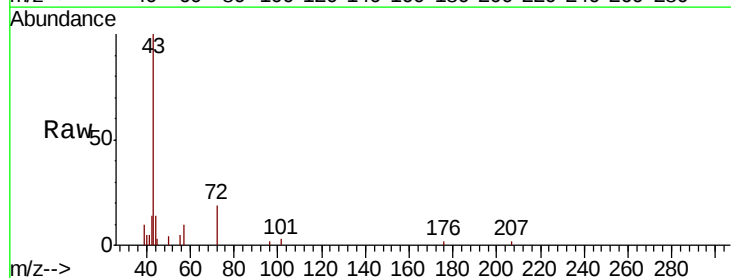
Acq: 24 May 2022 6:23

Tgt Ion: 43 Resp: 10153

Ion Ratio Lower Upper

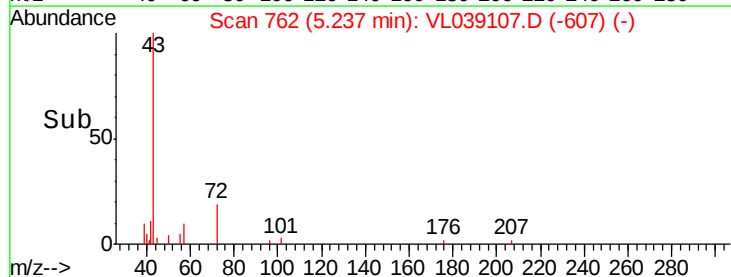
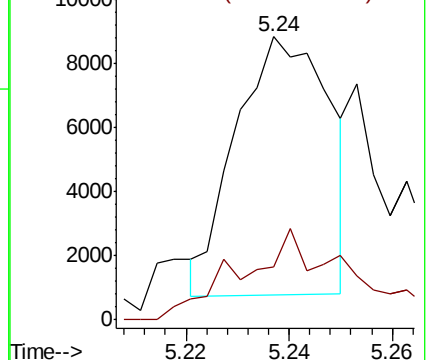
43 100

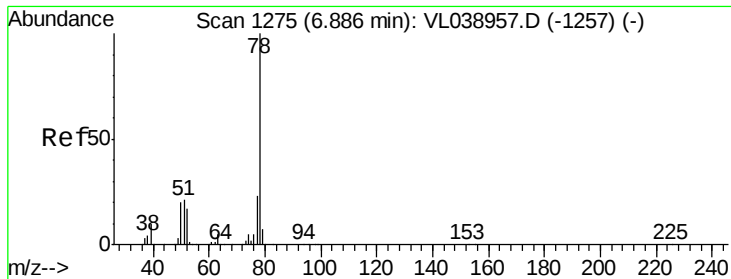
72 55.4 17.8 26.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.384 ppbv

RT: 6.87 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 24 May 2022 6:23

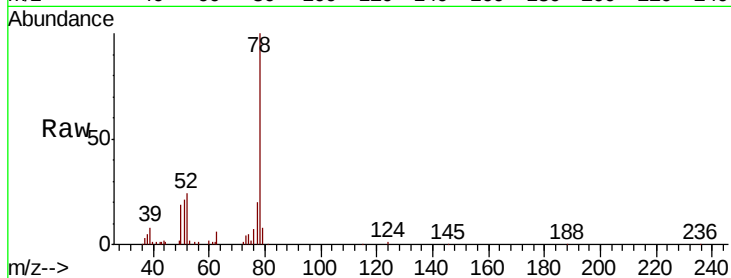
Tot Ion: 78 Resp: 92259

Ion Ratio Lower Upper

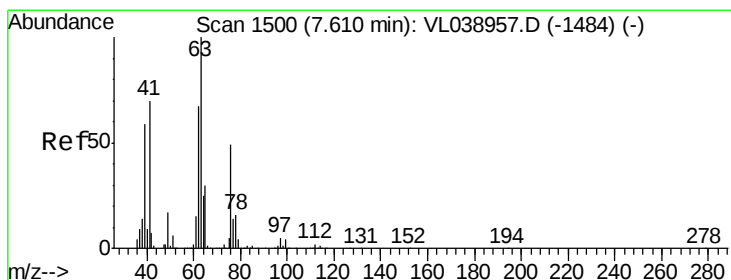
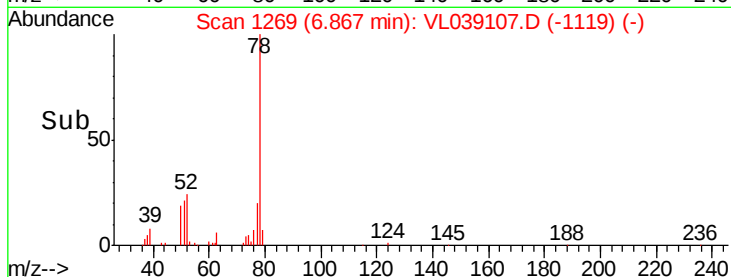
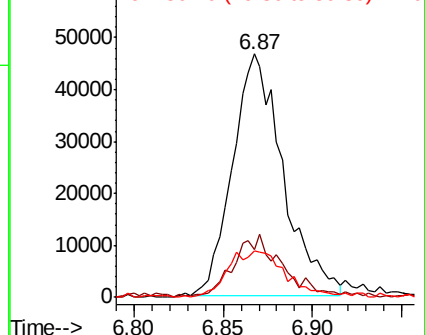
78 100

77 19.1 18.6 28.0

50 19.5 15.6 23.4



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



#39

1,2-Dichloropropane

Concen: 8.091 ppbv

RT: 7.15 min Scan# 1357

Delta R.T. -0.46 min

Lab File: VL039107.D

Acq: 24 May 2022 6:23

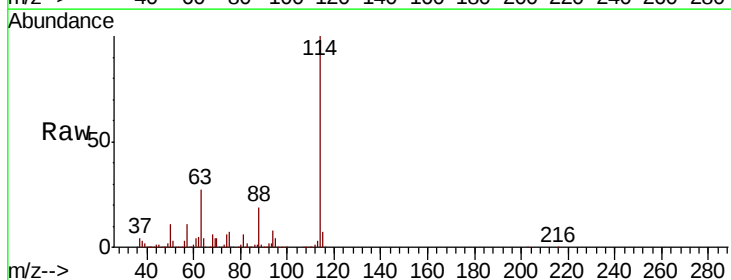
Tgt Ion: 63 Resp: 755435

Ion Ratio Lower Upper

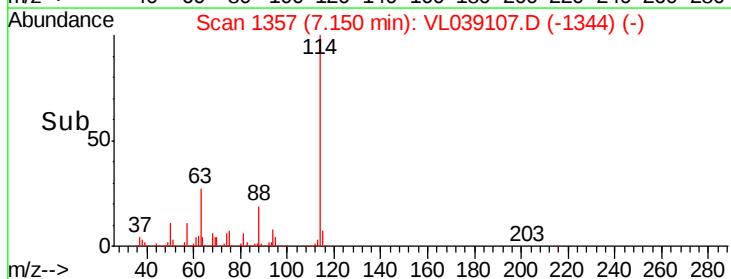
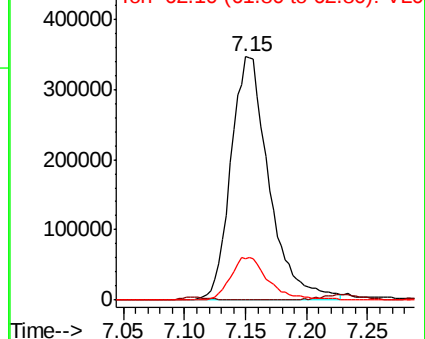
63 100

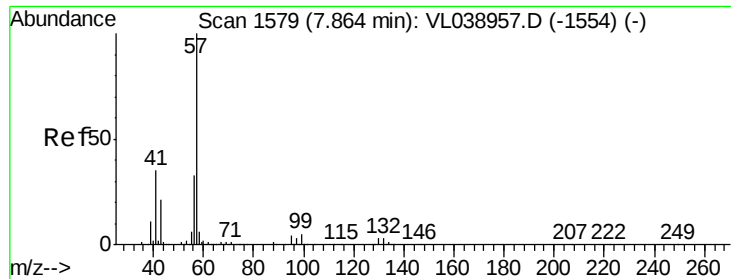
41 0.0 55.9 83.9#

62 17.1 53.8 80.6#



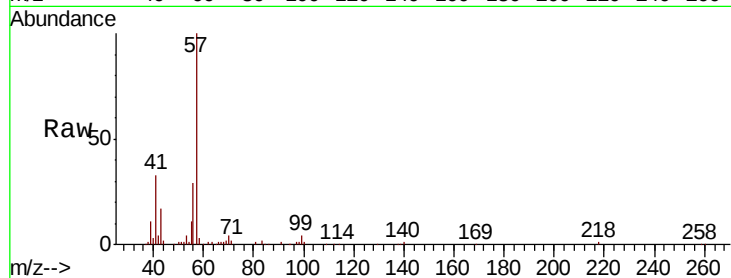
Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



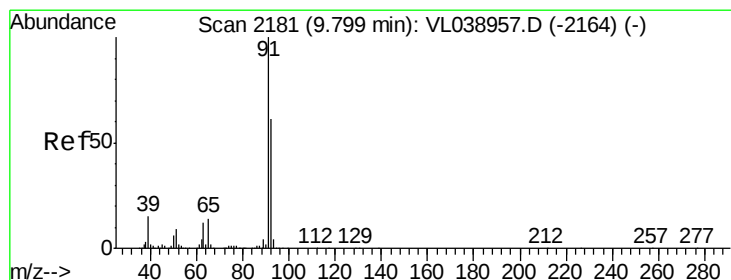
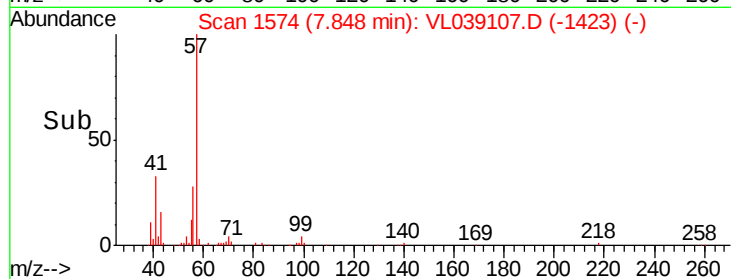
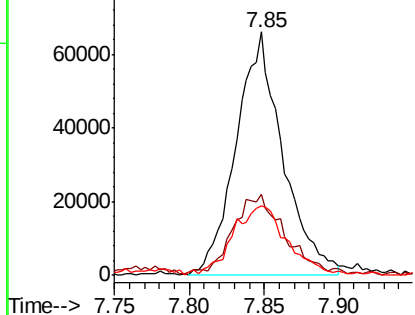


#44
 2,2,4-Trimethylpentane
 Concen: 0.342 ppbv
 RT: 7.85
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 APB-1DL
 Acq: 24 May 2022 8:23

Tot Ion: 57 Resp: 144091
 Ion Ratio Lower Upper
 57 100
 41 37.1 26.3 39.5
 56 33.8 24.6 37.0

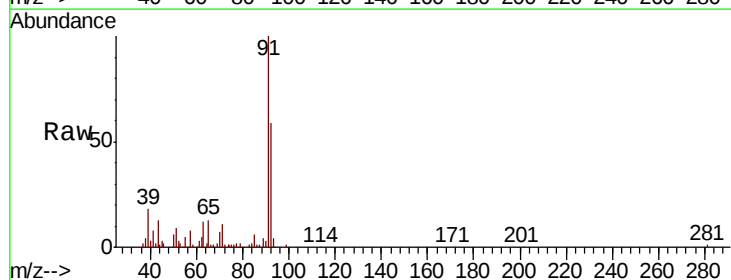


Abundance Ion 57.10 (56.80 to 57.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 56.10 (55.80 to 56.80): VL0

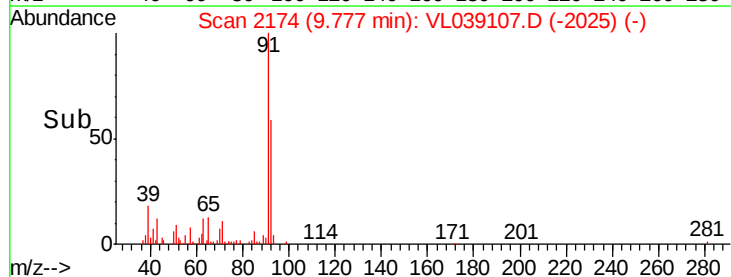
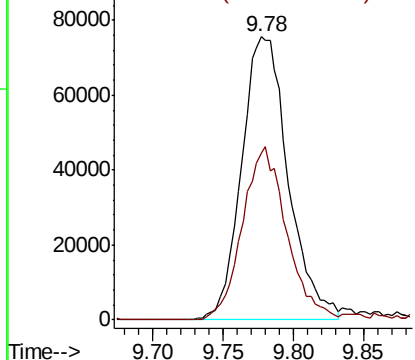


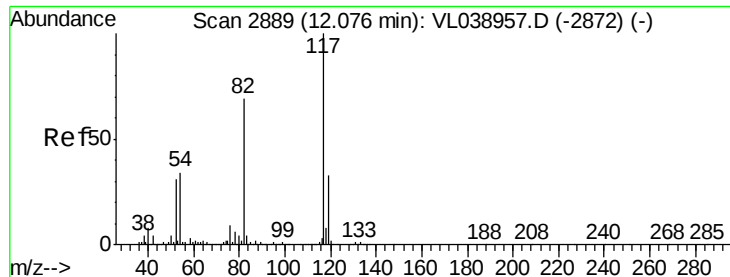
#53
 Toluene
 Concen: 0.650 ppbv
 RT: 9.78 min Scan# 2174
 Delta R.T. -0.02 min
 Lab File: VL039107.D
 Acq: 24 May 2022 6:23

Tgt Ion: 91 Resp: 174821
 Ion Ratio Lower Upper
 91 100
 92 58.8 48.2 72.2



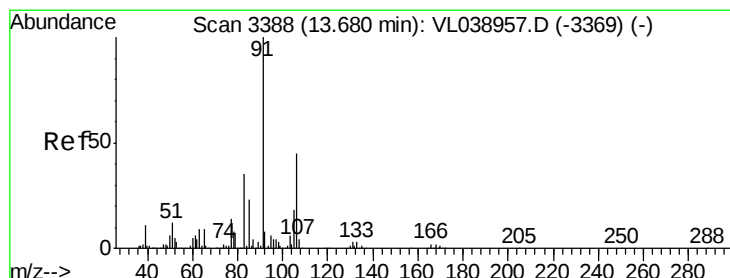
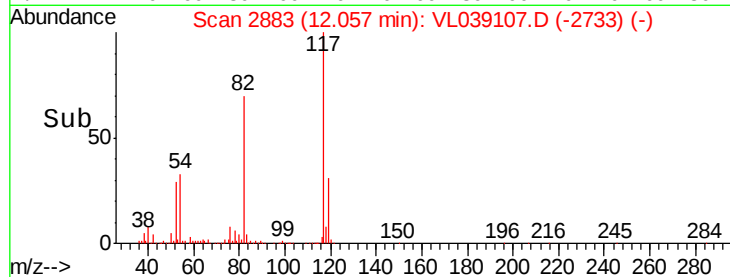
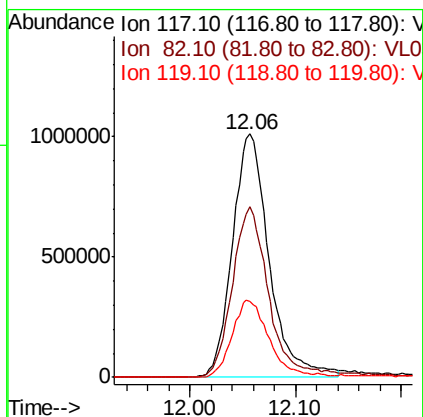
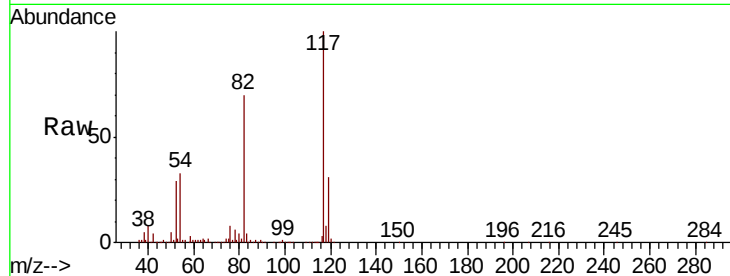
Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0





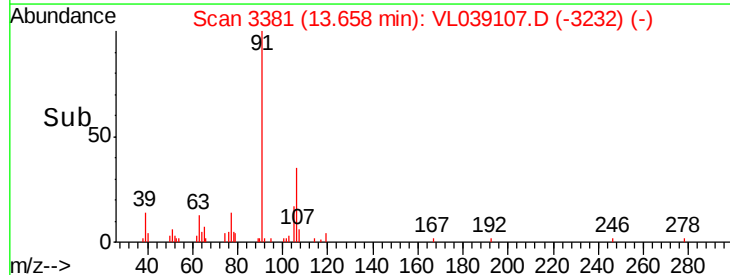
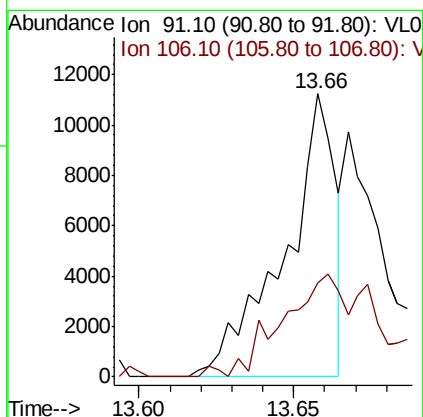
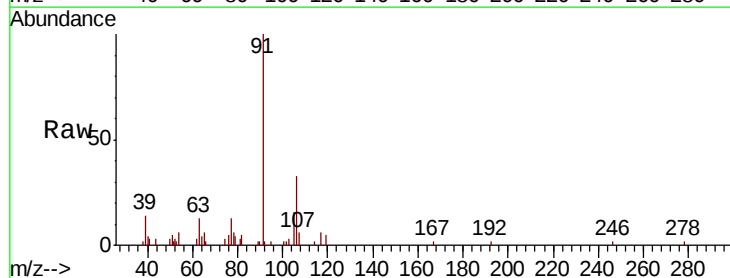
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
APB-1DL
Acq: 24 May 2022 8:23

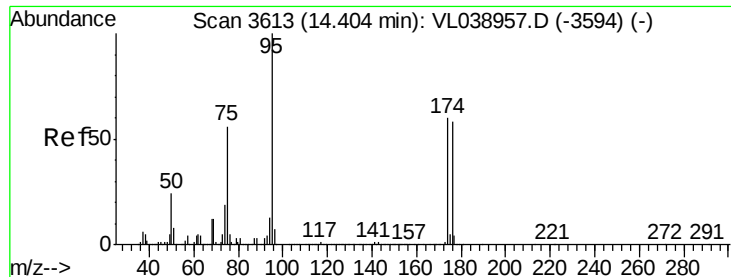
Tot Ion:117 Resp: 2448591
Ion Ratio Lower Upper
117 100
82 72.2 57.0 85.6
119 33.9 27.2 40.8



#60
o-Xylene
Concen: 0.045 ppbv
RT: 13.66 min Scan# 3381
Delta R.T. -0.02 min
Lab File: VL039107.D
Acq: 24 May 2022 6:23

Tgt Ion: 91 Resp: 12782
Ion Ratio Lower Upper
91 100
106 70.4 22.2 66.6#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.797 ppbv

RT: 14.39 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

APB-1DL

Acq: 24 May 2022 8.25

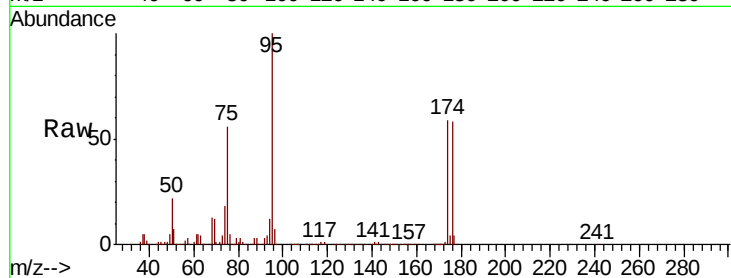
Tot Ion: 95 Resp: 1899788

Ion Ratio Lower Upper

95 100

174 67.0 50.8 76.2

175 4.5 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

