

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062422\
 Data File : VL039344.D
 Acq On : 24 Jun 2022 17:01
 Operator : SY/AP
 Sample : N3489-03DL 20X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-5-20220622DL

Quant Time: Jun 27 01:49:56 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 01 01:22:18 2022
 QLast Update : Wed Jun 01 01:22:18 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1233631	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3396063	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3033148	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2197614	8.76	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	87.60%

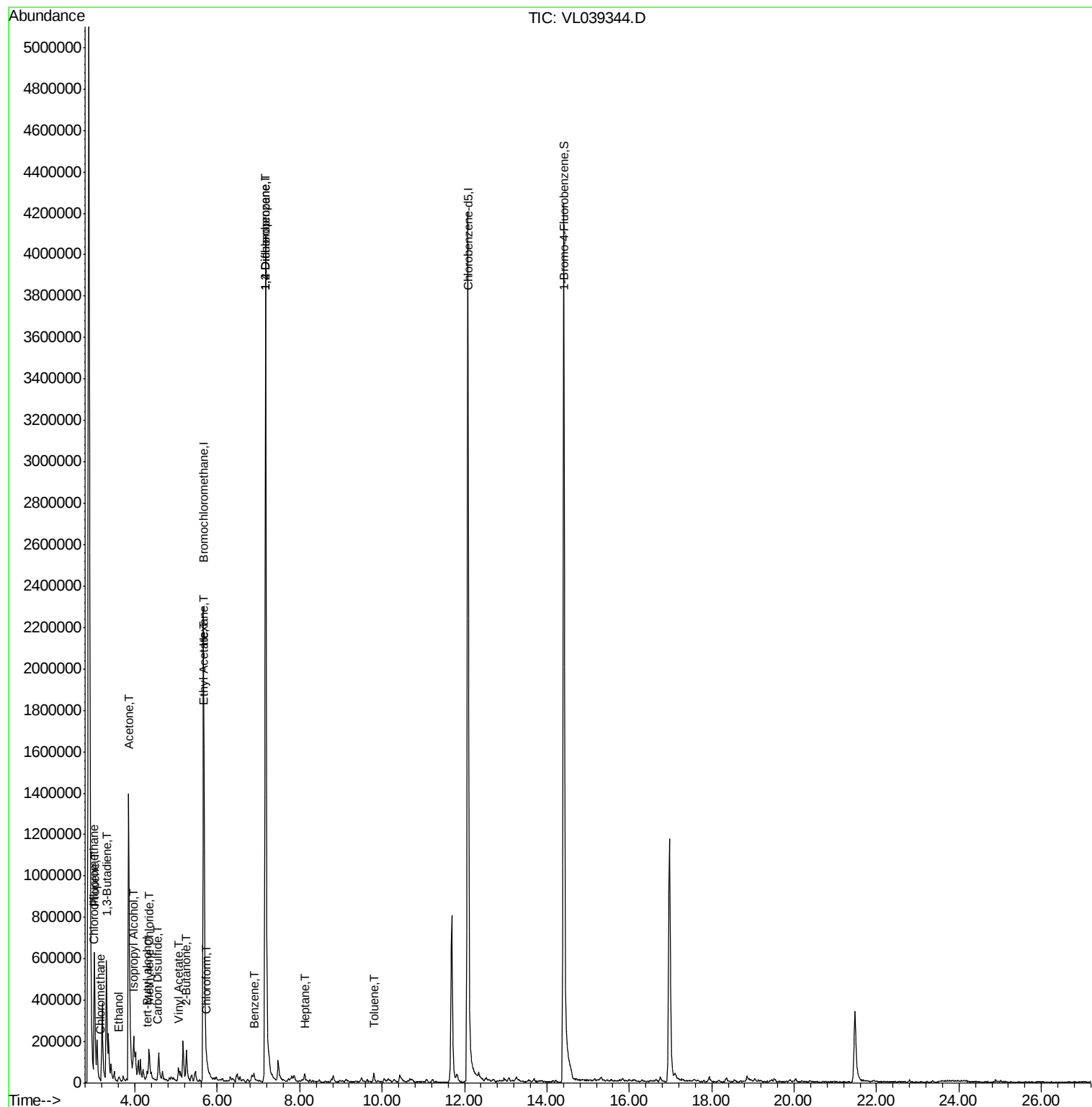
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.00	51	5204	0.033	ppbv	95
4) Chloromethane	3.15	50	3422	0.042	ppbv #	76
9) Propene	3.02	41	315181	4.605	ppbv	93
10) Heptane	8.12	43	7571	0.047	ppbv #	26
13) Ethanol	3.60	45	10453	2.800	ppbv #	100
15) Acetone	3.85	43	1913841	14.893	ppbv	93
16) 1,3-Butadiene	3.31	39	194081	2.810	ppbv #	28
17) tert-Butyl alcohol	4.29	59	3861	0.039	ppbv #	1
19) Isopropyl Alcohol	3.97	45	246642	4.092	ppbv #	1
20) Methylene Chloride	4.34	84	53523	0.988	ppbv	92
23) Vinyl Acetate	5.06	43	38339	0.361	ppbv #	65
25) Ethyl Acetate	5.69	43	34638	0.120	ppbv #	83
26) Hexane	5.68	57	57232	0.450	ppbv #	35
27) Carbon Disulfide	4.55	76	9615	0.073	ppbv #	55
29) Chloroform	5.75	83	11281	0.053	ppbv	94
34) 2-Butanone	5.25	43	191318	1.037	ppbv #	89
36) Benzene	6.89	78	16099	0.058	ppbv	98
39) 1,2-Dichloropropane	7.17	63	826761	7.539	ppbv #	24
53) Toluene	9.80	91	10723	0.034	ppbv #	24

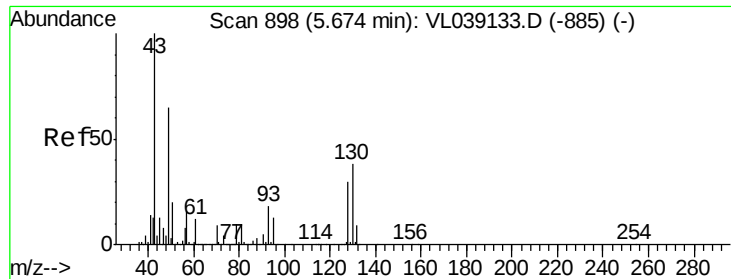
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062422\
Data File : VL039344.D
Acq On : 24 Jun 2022 17:01
Operator : SY/AP
Sample : N3489-03DL 20X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV-5-20220622DL

Quant Time: Jun 27 01:49:56 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun 01 01:22:18 2022
QLast Update : Wed Jun 01 01:22:18 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 24 Jun 2022 17:01

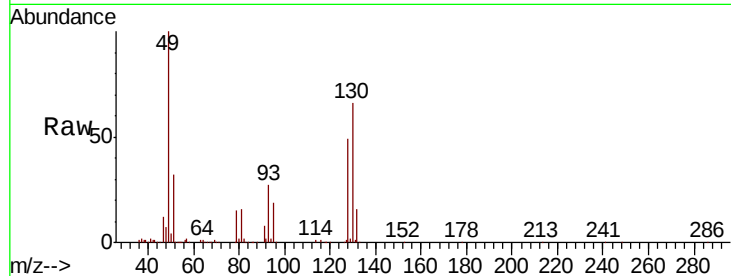
Tot Ion: 49 Resp: 1233631

Ion Ratio Lower Upper

49 100

128 52.3 24.7 74.1

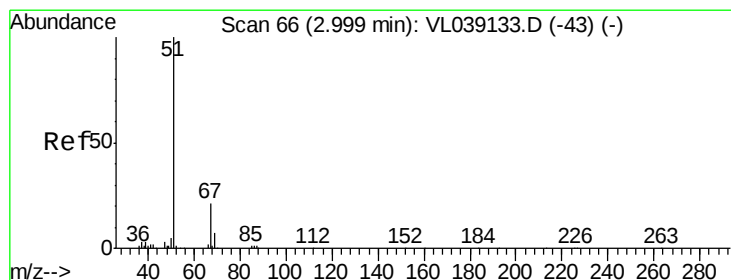
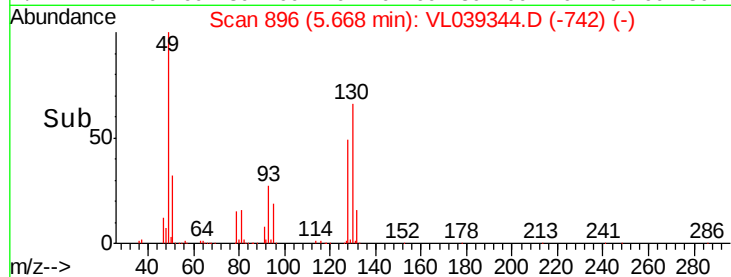
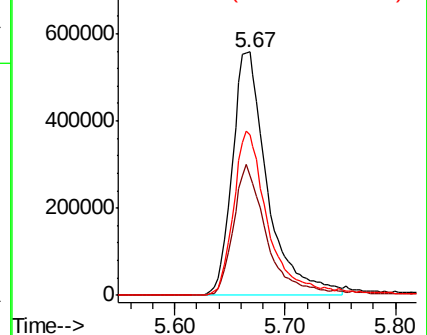
130 67.7 31.4 94.0



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



#3

Chlorodifluoromethane

Concen: 0.033 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.00 min

Lab File: VL039344.D

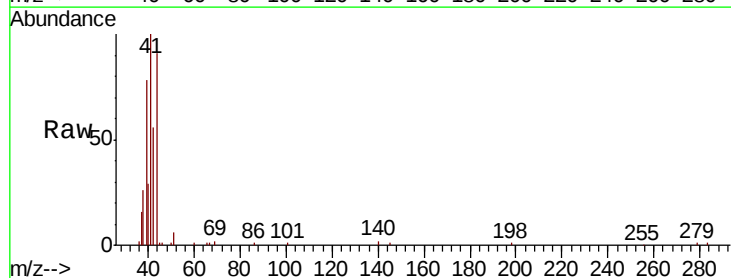
Acq: 24 Jun 2022 17:01

Tgt Ion: 51 Resp: 5204

Ion Ratio Lower Upper

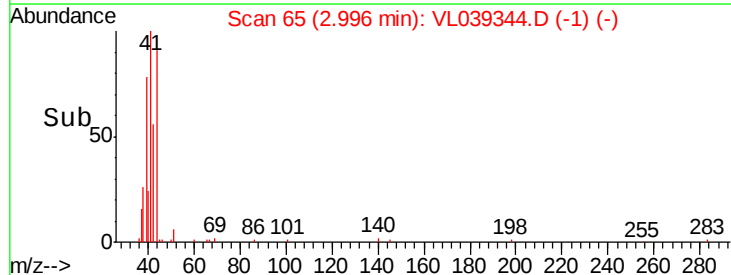
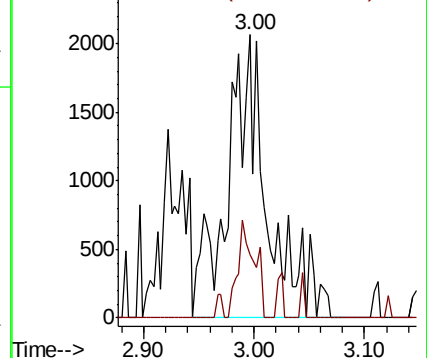
51 100

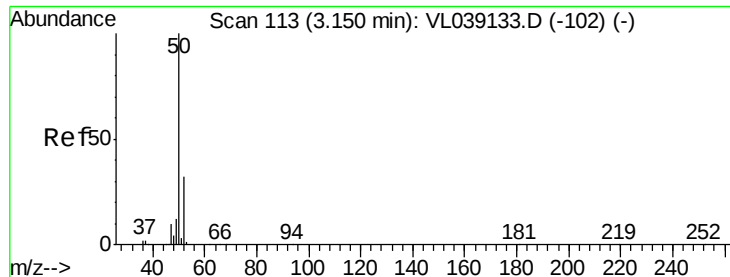
67 17.9 16.2 24.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.042 ppbv

RT: 3.15 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

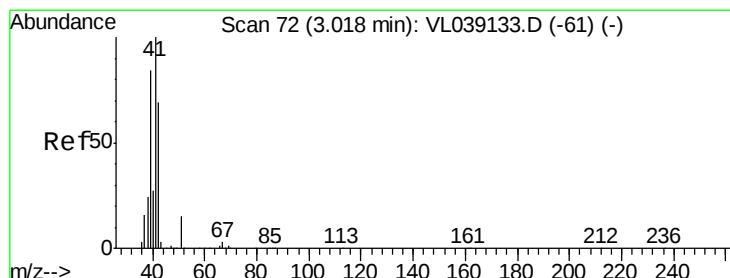
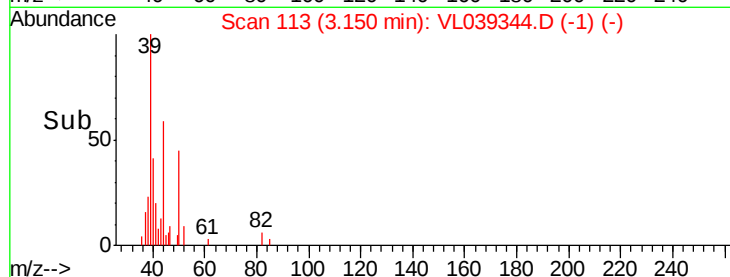
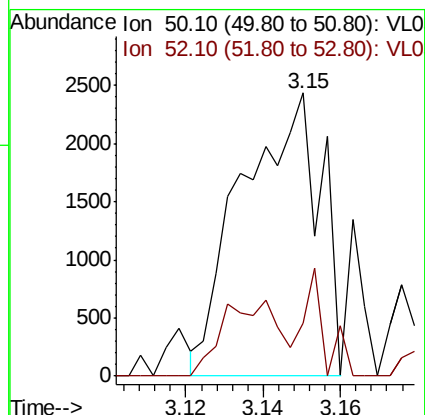
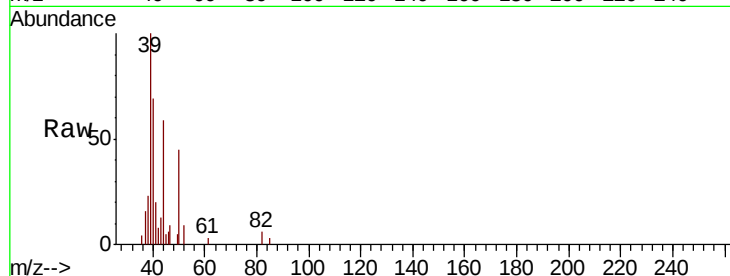
Acq: 24 Jun 2022 17:01 SV-5-20220622DL

Tot Ion: 50 Resp: 3422

Ion Ratio Lower Upper

50 100

52 18.9 25.9 38.9#



#9

Propene

Concen: 4.605 ppbv

RT: 3.02 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL039344.D

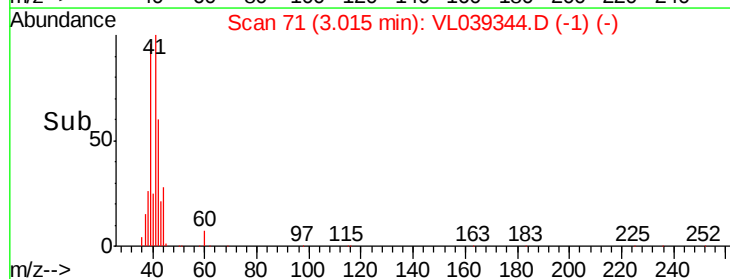
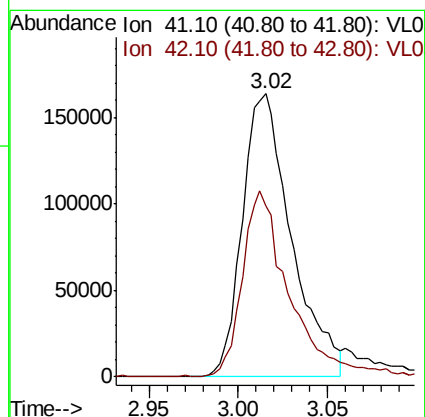
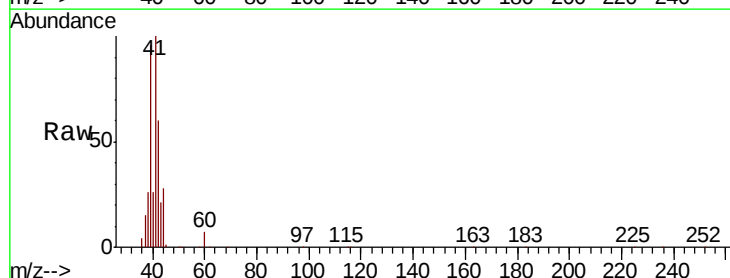
Acq: 24 Jun 2022 17:01

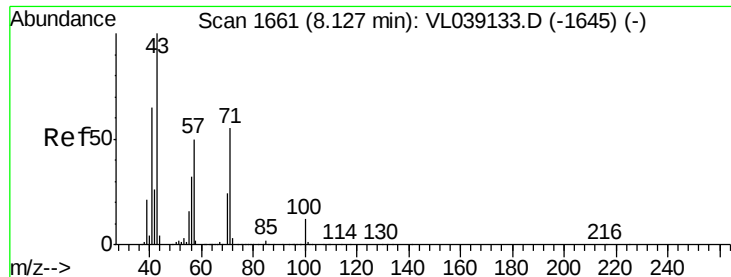
Tgt Ion: 41 Resp: 315181

Ion Ratio Lower Upper

41 100

42 63.2 55.4 83.2





#10

Heptane

Concen: 0.047 ppbv

RT: 8.12 Instrument: MSVOA_L

Delta R.T. ClientSampleId:

Lab File: SV-5-20220622DL

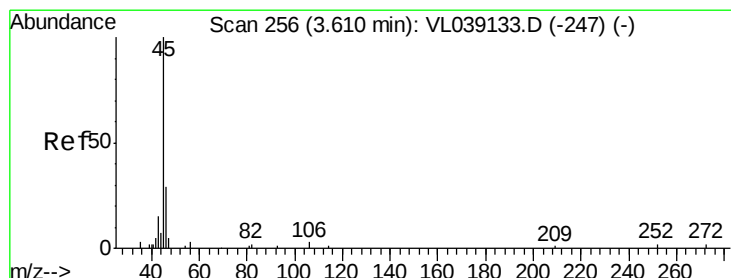
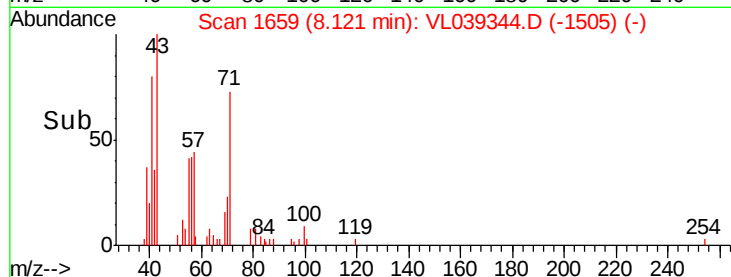
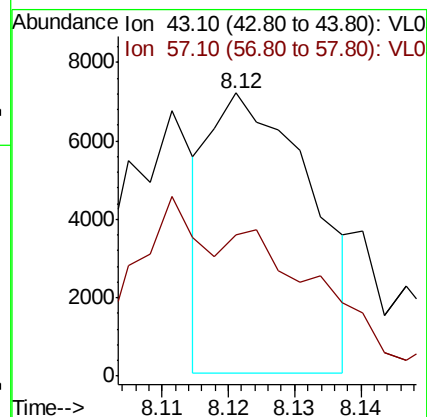
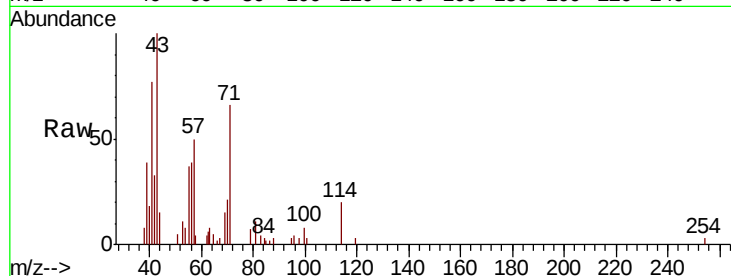
Acq: 24 Jun 2022 17:01

Tot Ion: 43 Resp: 7571

Ion Ratio Lower Upper

43 100

57 0.0 41.4 62.2#



#13

Ethanol

Concen: 2.800 ppbv

RT: 3.60 min Scan# 254

Delta R.T. -0.01 min

Lab File: VL039344.D

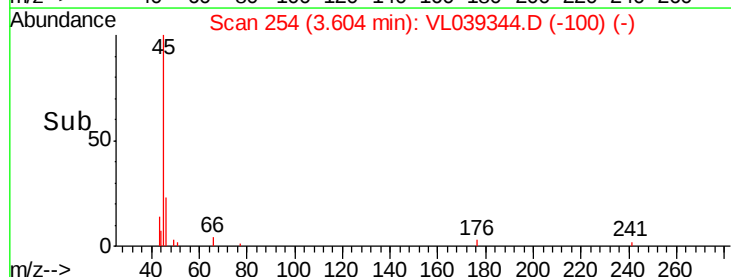
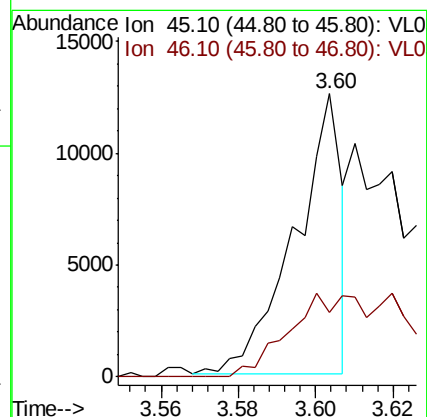
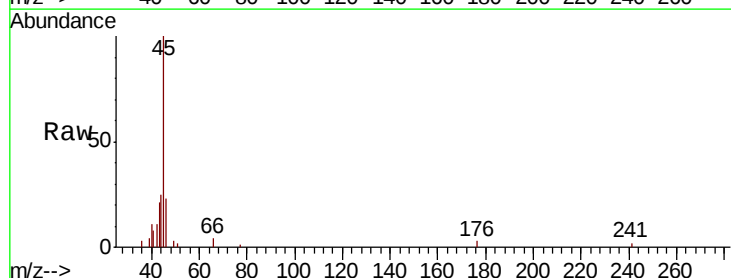
Acq: 24 Jun 2022 17:01

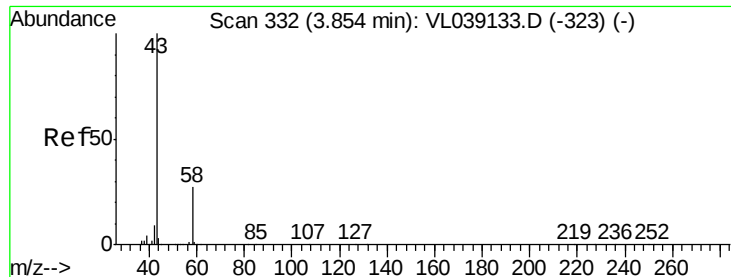
Tgt Ion: 45 Resp: 10453

Ion Ratio Lower Upper

45 100

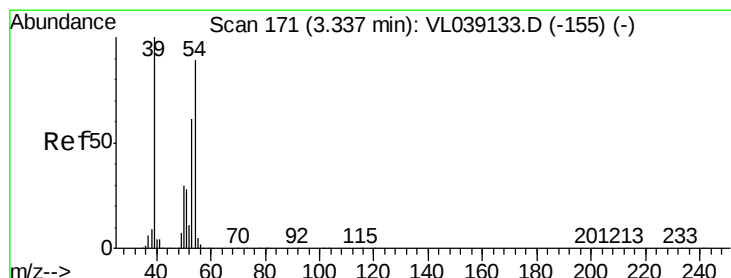
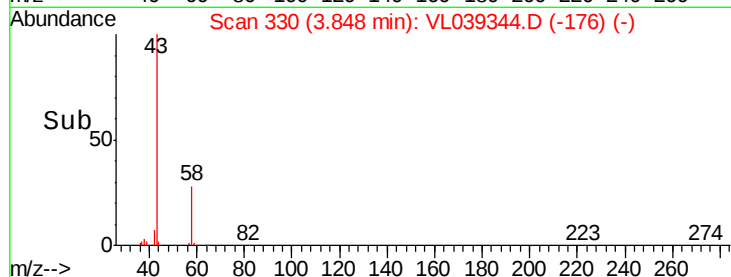
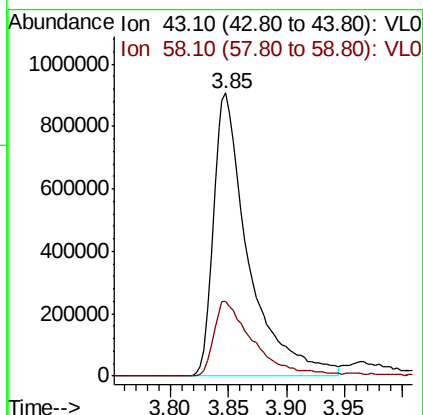
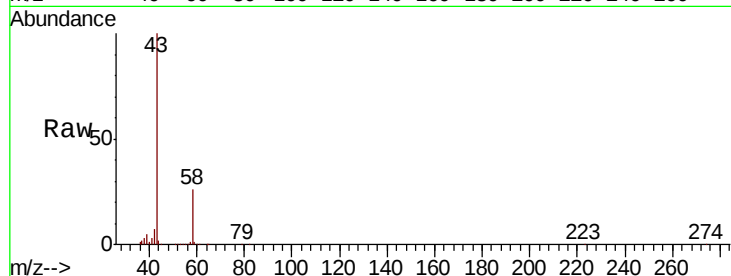
46 117.4 0.0 0.0#





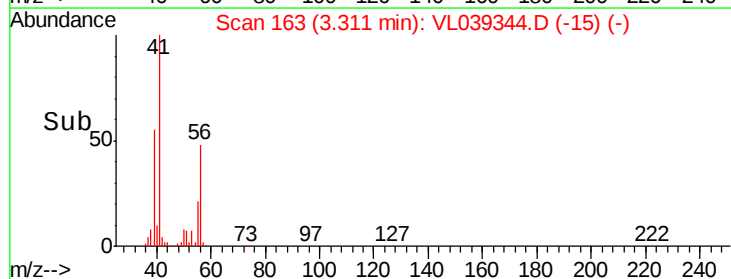
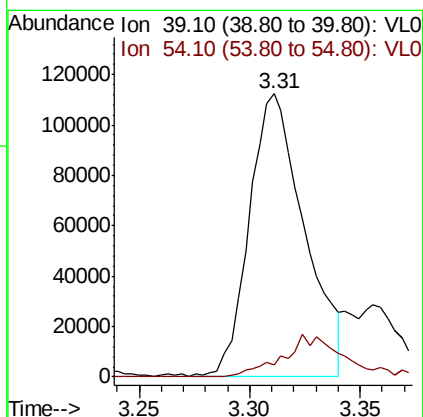
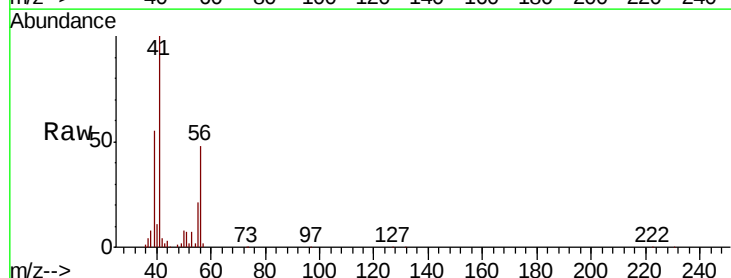
#15
Acetone
Concen: 14.893 ppbv
RT: 3.85
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV-5-20220622DL
Acq: 24 Jun 2022 17:01

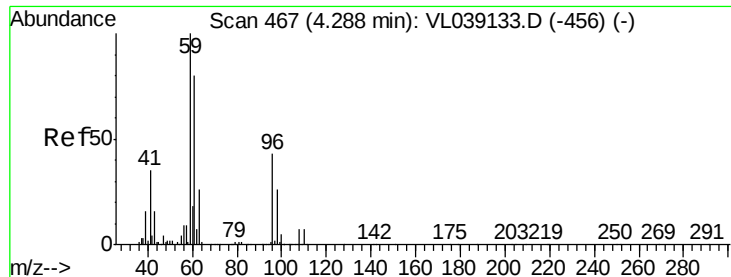
Tot Ion: 43 Resp: 1913841
Ion Ratio Lower Upper
43 100
58 31.8 22.5 33.7



#16
1,3-Butadiene
Concen: 2.810 ppbv
RT: 3.31 min Scan# 163
Delta R.T. -0.03 min
Lab File: VL039344.D
Acq: 24 Jun 2022 17:01

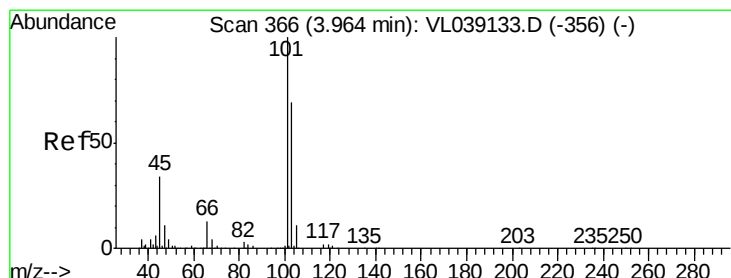
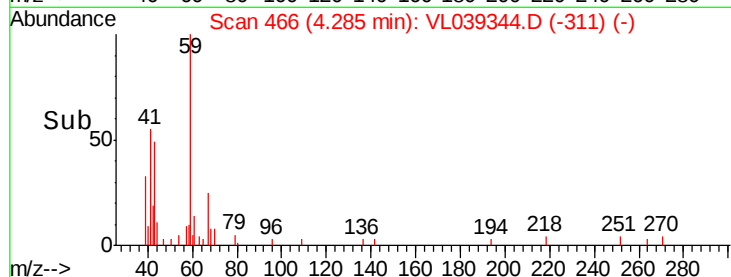
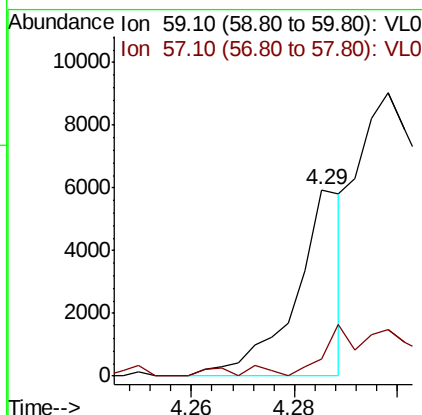
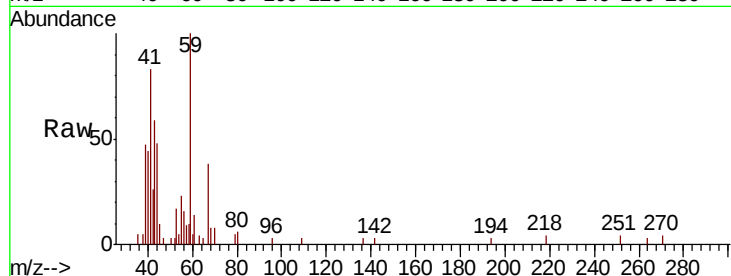
Tgt Ion: 39 Resp: 194081
Ion Ratio Lower Upper
39 100
54 17.3 65.8 98.6#





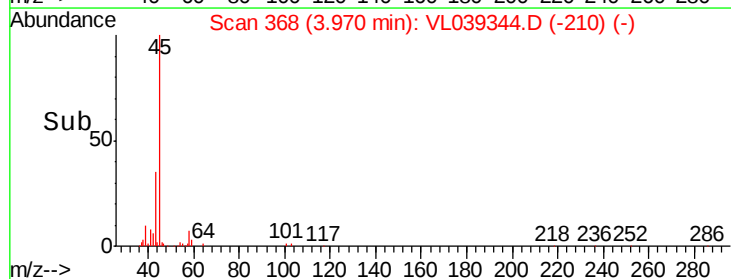
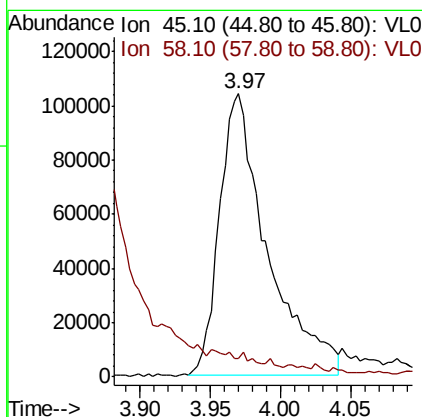
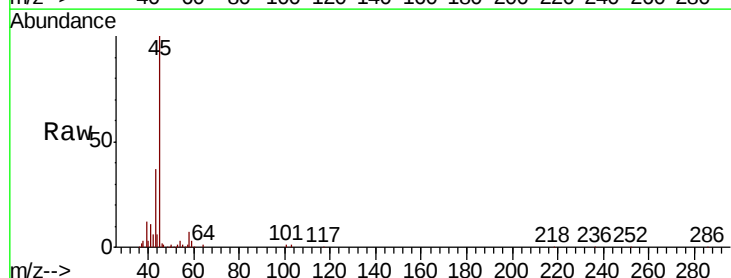
#17
tert-Butyl alcohol
Concen: 0.039 ppbv
RT: 4.29
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV-5-20220622DL
Acq: 24 Jun 2022 17:01

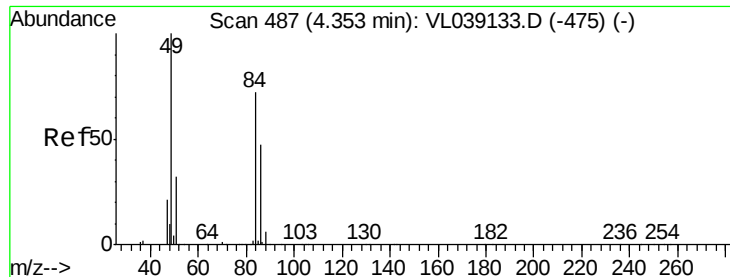
Tot Ion: 59 Resp: 3861
Ion Ratio Lower Upper
59 100
57 78.7 9.1 13.7#



#19
Isopropyl Alcohol
Concen: 4.092 ppbv
RT: 3.97 min Scan# 368
Delta R.T. 0.01 min
Lab File: VL039344.D
Acq: 24 Jun 2022 17:01

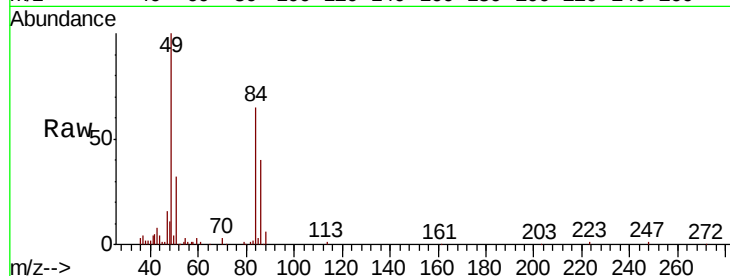
Tgt Ion: 45 Resp: 246642
Ion Ratio Lower Upper
45 100
58 246.0 1.8 2.8#



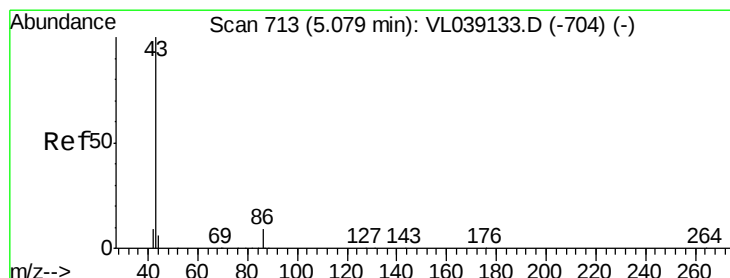
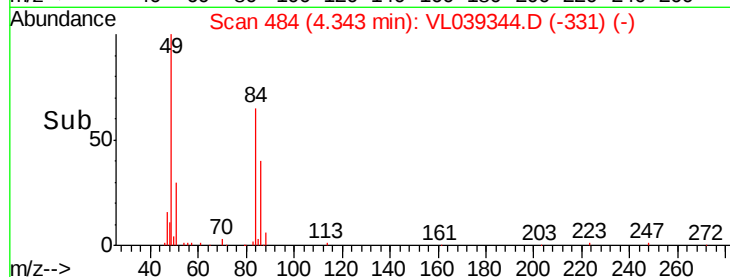
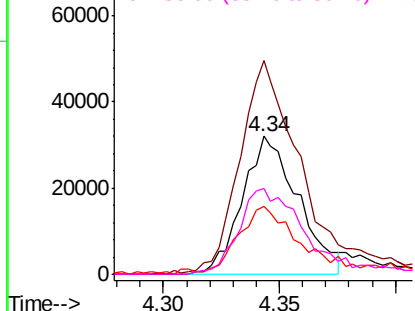


#20
Methvlene Chloride
Concen: 0.988 ppbv
RT: 4.34
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV-5-20220622DL
Acq: 24 Jun 2022 17:01

Tot Ion:	84	Resp:	53523
Ion	Ratio	Lower	Upper
84	100		
49	152.9	111.1	166.7
51	45.3	35.3	52.9
86	61.8	51.9	77.9

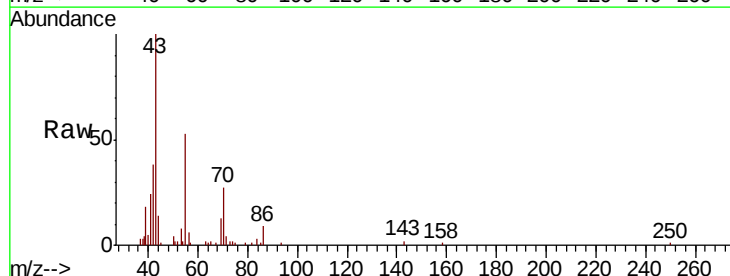


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

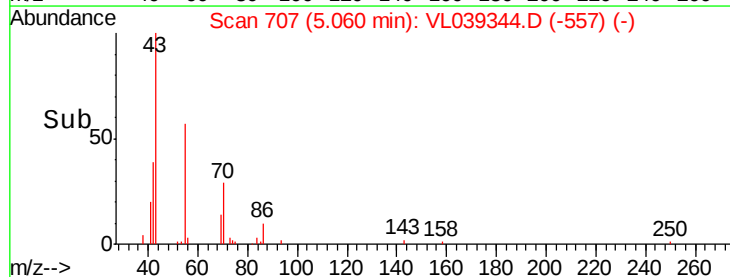
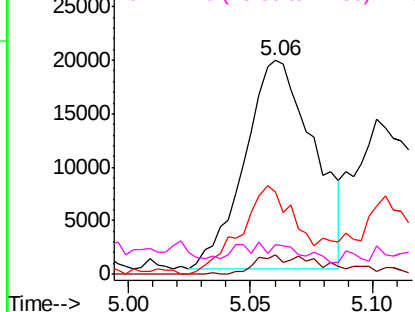


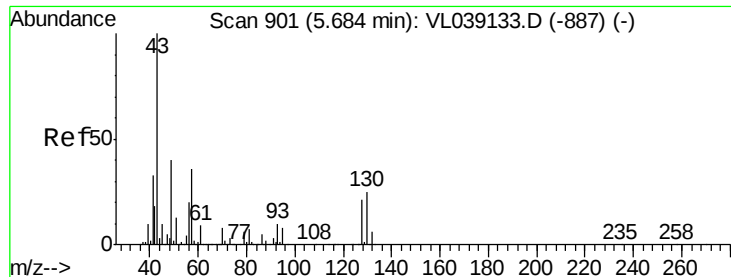
#23
Vinyl Acetate
Concen: 0.361 ppbv
RT: 5.06 min Scan# 707
Delta R.T. -0.02 min
Lab File: VL039344.D
Acq: 24 Jun 2022 17:01

Tgt Ion:	43	Resp:	38339
Ion	Ratio	Lower	Upper
43	100		
86	9.0	6.0	9.0#
42	36.4	8.2	12.4#
44	8.2	4.3	6.5#



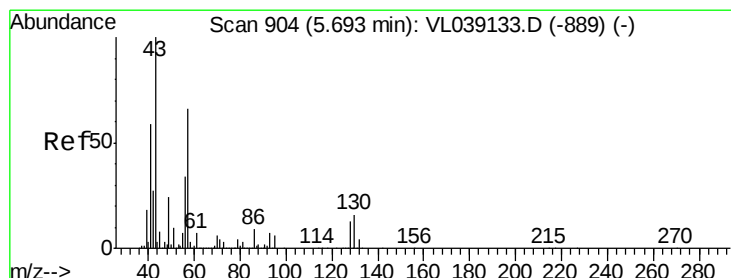
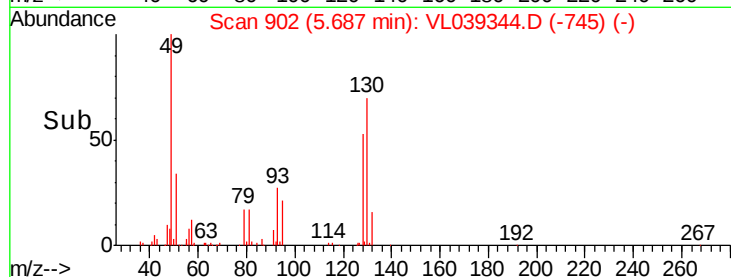
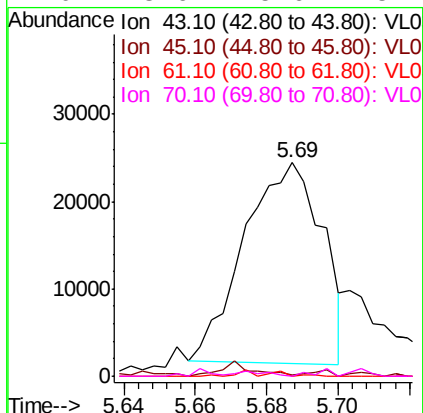
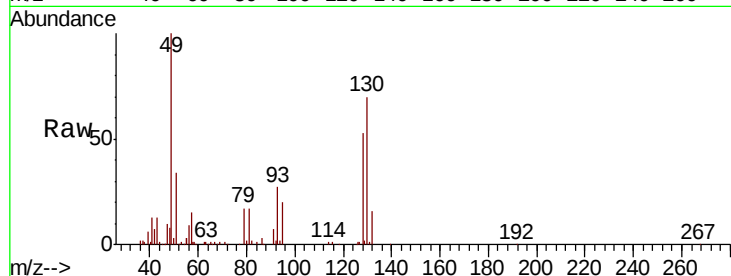
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





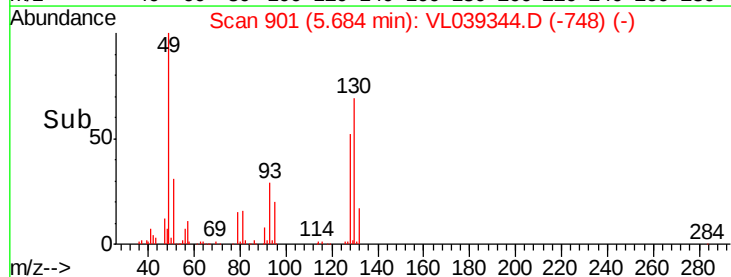
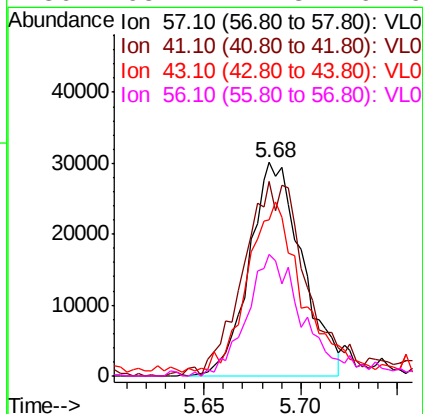
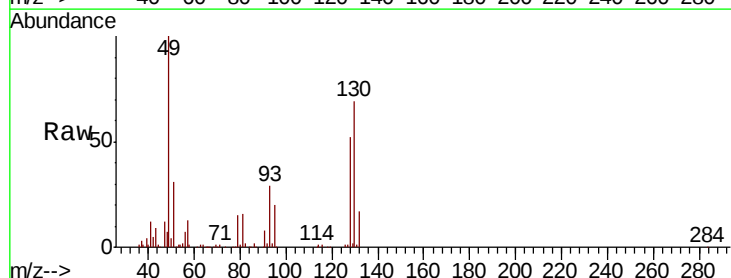
#25
Ethyl Acetate
Concen: 0.120 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV-5-20220622DL
Acq: 24 Jun 2022 17:01

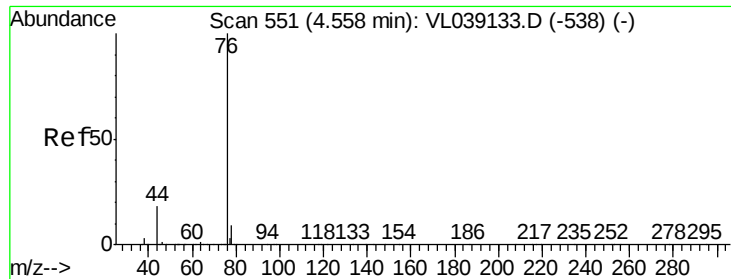
Tot Ion:	43	Resp:	34638
Ion	Ratio	Lower	Upper
43	100		
45	5.2	8.2	12.2#
61	1.3	8.4	12.6#
70	3.6	5.6	8.4#



#26
Hexane
Concen: 0.450 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.01 min
Lab File: VL039344.D
Acq: 24 Jun 2022 17:01

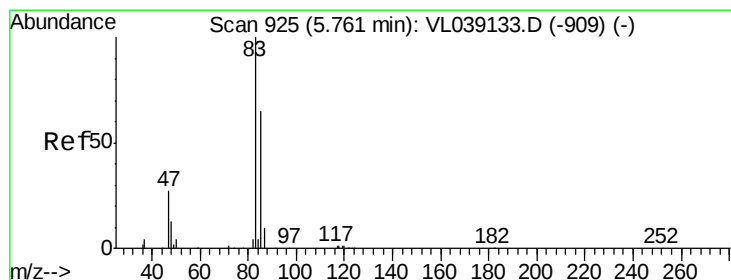
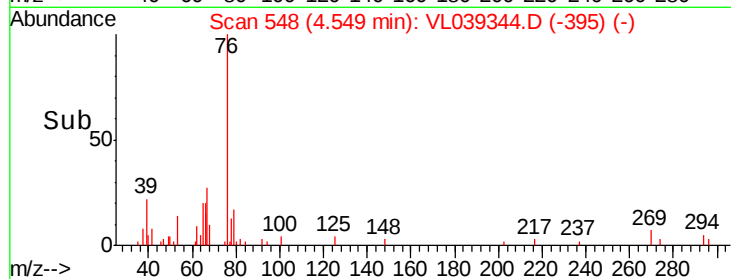
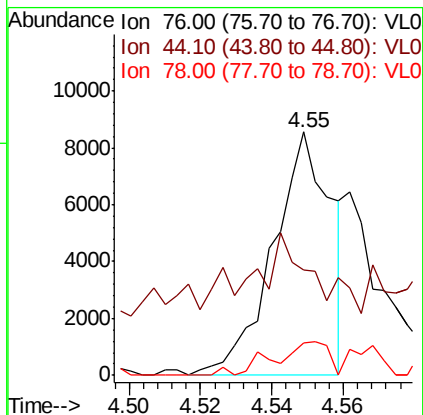
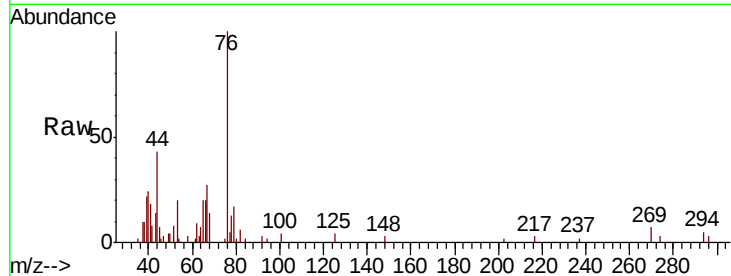
Tgt Ion:	57	Resp:	57232
Ion	Ratio	Lower	Upper
57	100		
41	118.4	72.4	108.6#
43	84.2	187.0	280.6#
56	65.2	41.8	62.6#





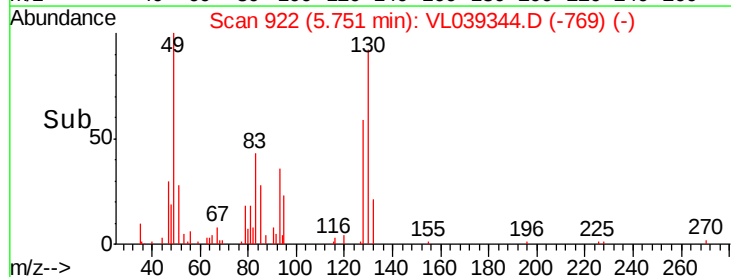
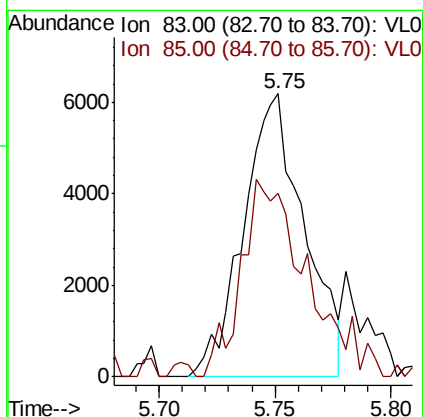
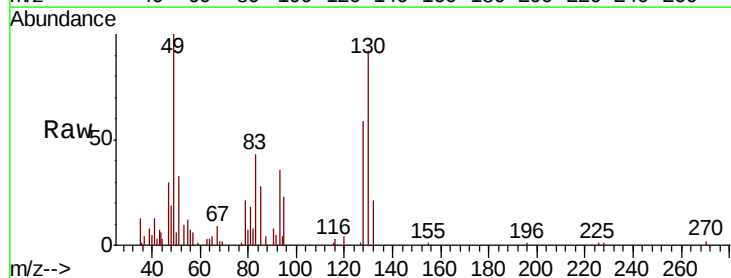
#27
Carbon Disulfide
Concen: 0.073 ppbv
RT: 4.55
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV-5-20220622DL
Acq: 24 Jun 2022 17:01

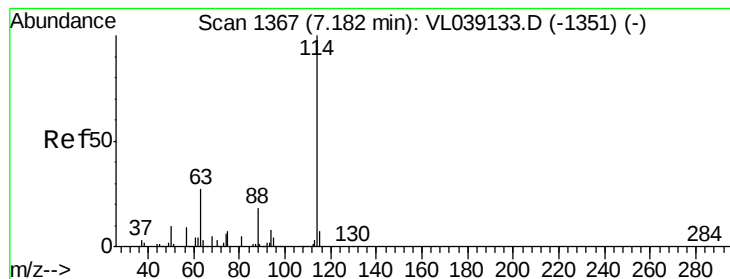
Tot Ion	Ratio	Lower	Upper
76	100		
44	40.3	14.4	21.6#
78	22.3	7.7	11.5#



#29
Chloroform
Concen: 0.053 ppbv
RT: 5.75 min Scan# 922
Delta R.T. -0.01 min
Lab File: VL039344.D
Acq: 24 Jun 2022 17:01

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.5	52.4	78.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Jun 2022 17:01 SV-5-20220622DL

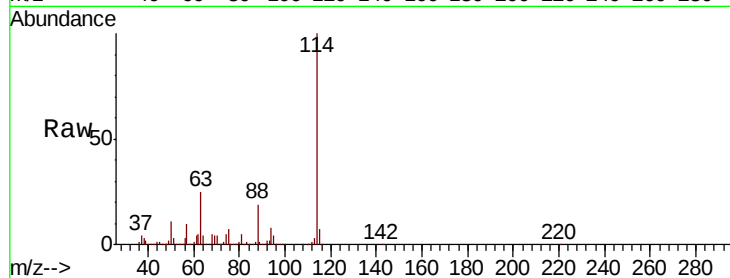
Tot Ion:114 Resp: 3396063

Ion Ratio Lower Upper

114 100

63 25.2 21.7 32.5

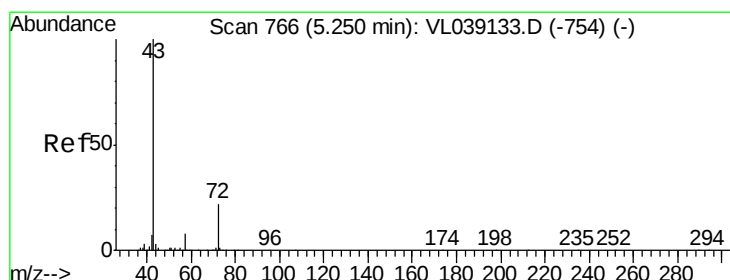
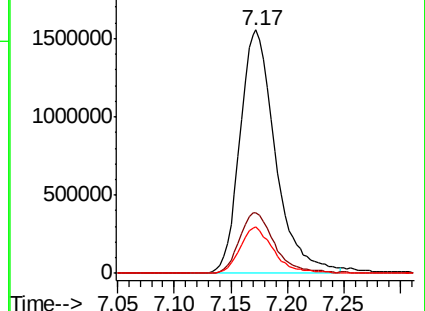
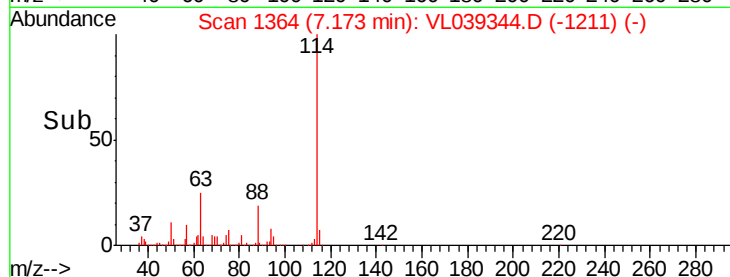
88 18.5 14.8 22.2



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: 1.037 ppbv

RT: 5.25 min Scan# 766

Delta R.T. 0.00 min

Lab File: VL039344.D

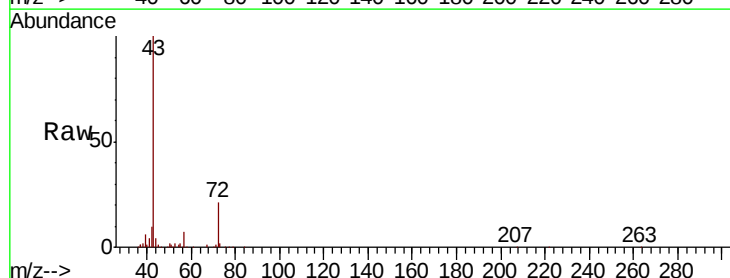
Acq: 24 Jun 2022 17:01

Tgt Ion: 43 Resp: 191318

Ion Ratio Lower Upper

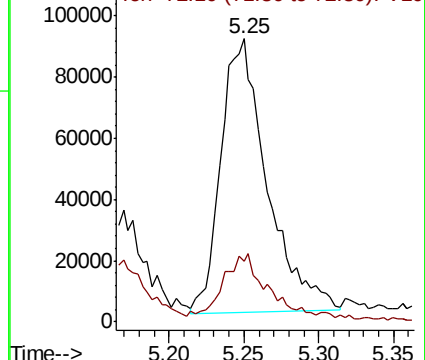
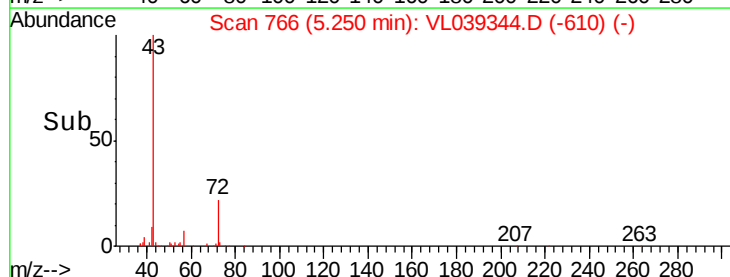
43 100

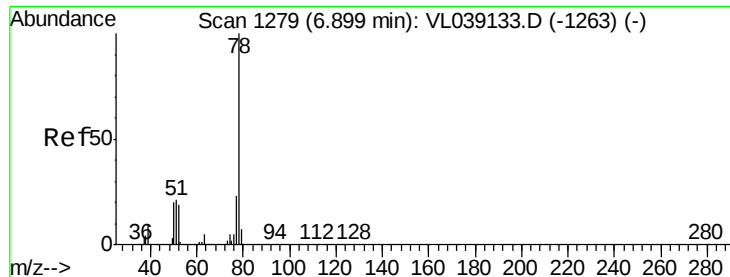
72 28.2 18.2 27.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

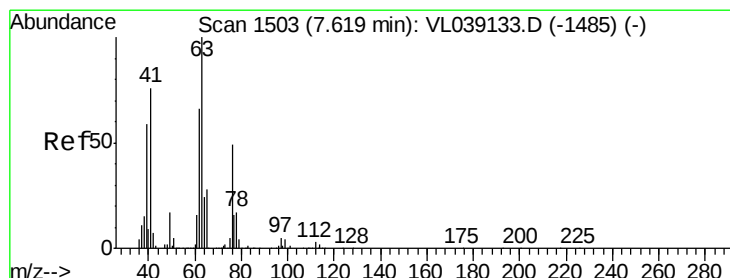
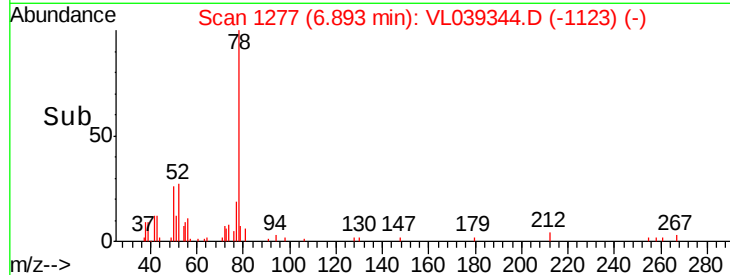
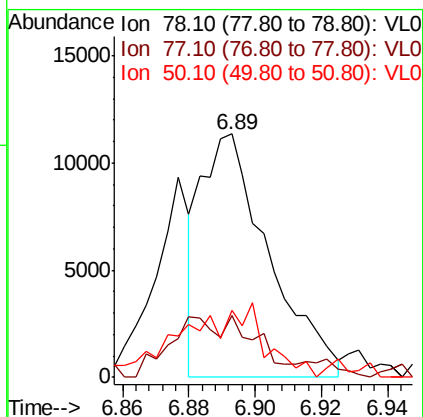
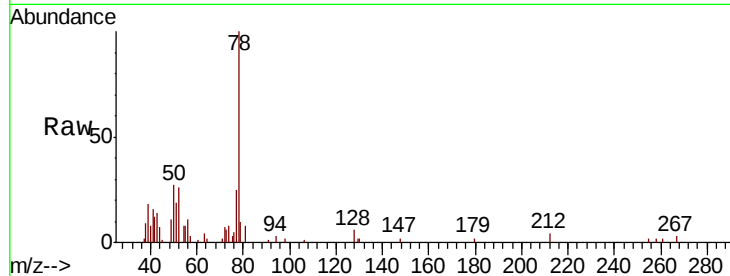
Ion 72.10 (71.80 to 72.80): VL0





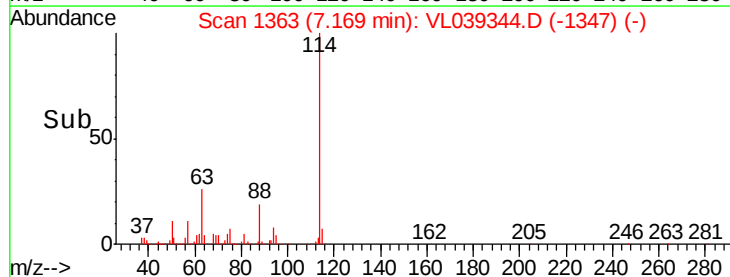
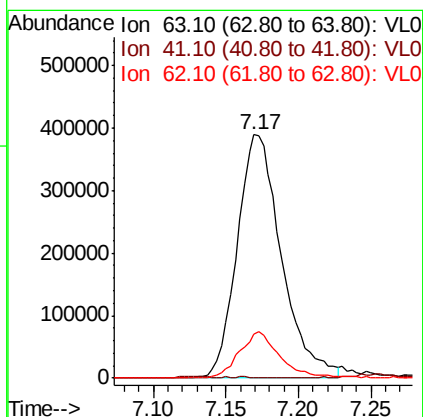
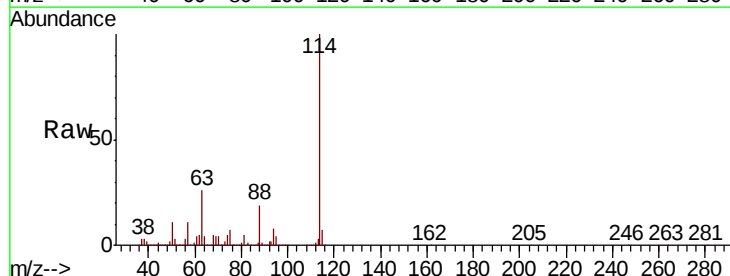
#36
Benzene
Concen: 0.058 ppbv
RT: 6.89
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV-5-20220622DL
Acq: 24 Jun 2022 17:01

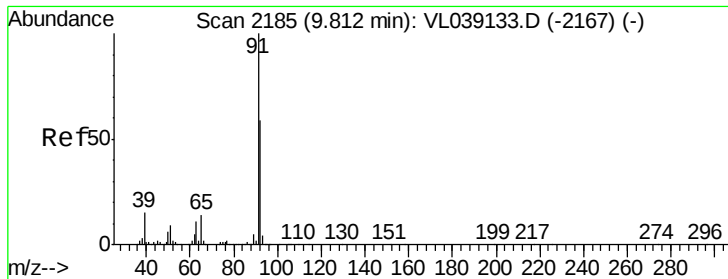
Tot Ion	78	Resp	16099
Ion Ratio	Lower	Upper	
78	100		
77	23.7	18.6	27.8
50	21.2	15.8	23.8



#39
1,2-Dichloropropane
Concen: 7.539 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.45 min
Lab File: VL039344.D
Acq: 24 Jun 2022 17:01

Tgt Ion	63	Resp	826761
Ion Ratio	Lower	Upper	
63	100		
41	0.0	60.8	91.2#
62	17.8	52.9	79.3#





#53

Toluene

Concen: 0.034 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

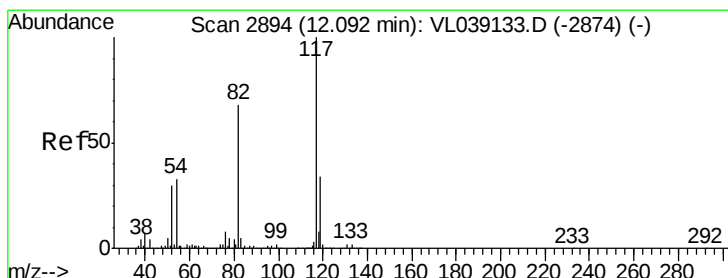
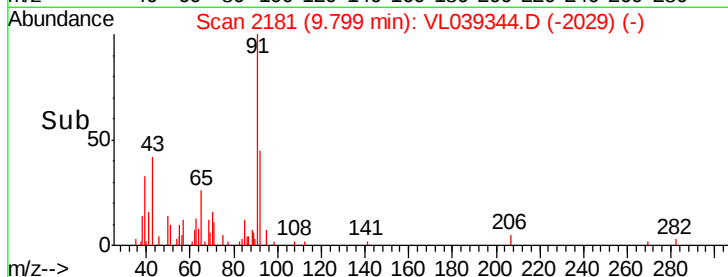
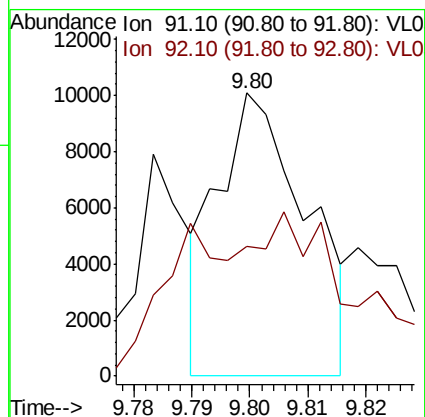
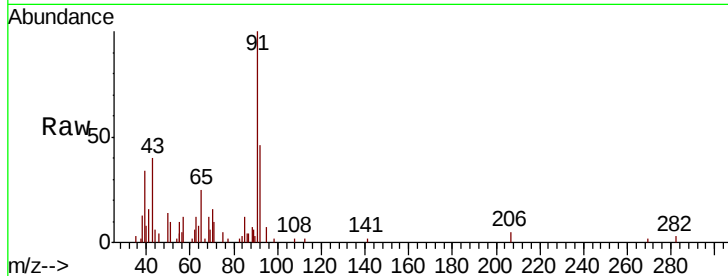
Acq: 24 Jun 2022 17:01 SV-5-20220622DL

Tot Ion: 91 Resp: 10723

Ion Ratio Lower Upper

91 100

92 118.0 48.1 72.1#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL039344.D

Acq: 24 Jun 2022 17:01

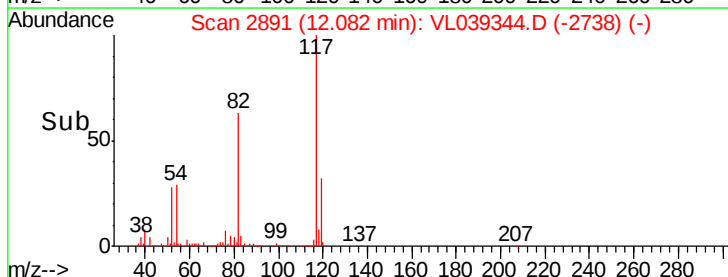
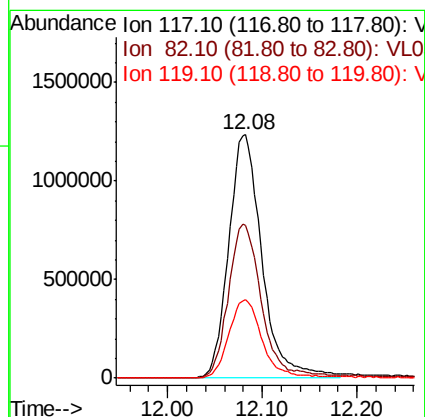
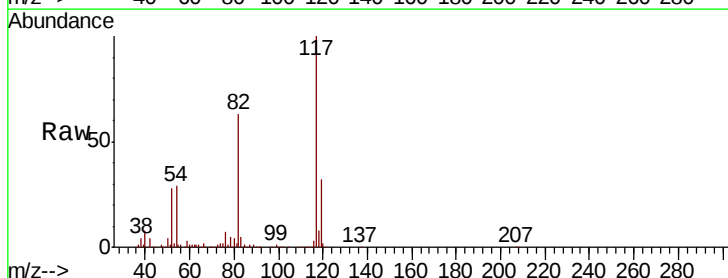
Tgt Ion: 117 Resp: 3033148

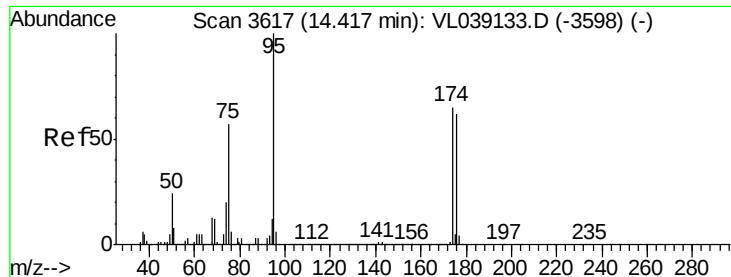
Ion Ratio Lower Upper

117 100

82 64.6 55.1 82.7

119 32.9 24.7 37.1





#68

1-Bromo-4-Fluorobenzene

Concen: 8.764 ppbv

RT: 14.41

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

SV-5-20220622DL

Acq: 24 Jun 2022 17:01

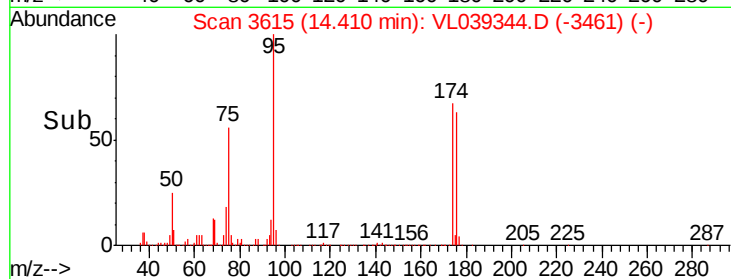
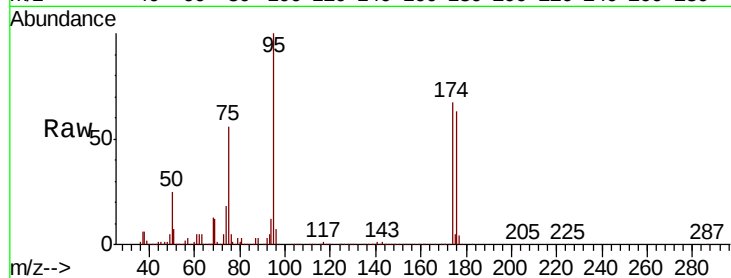
Tot Ion: 95 Resp: 2197614

Ion Ratio Lower Upper

95 100

174 72.4 53.8 80.8

175 5.2 4.1 6.1



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

