

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062422\
 Data File : VL039342.D
 Acq On : 24 Jun 2022 15:42
 Operator : SY/AP
 Sample : N3489-02 20X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-4-20220622DL

Quant Time: Jun 27 01:49:23 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	5.66	49	1221153	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3393019	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.08	117	3017574	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2221190	8.90	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	89.00%

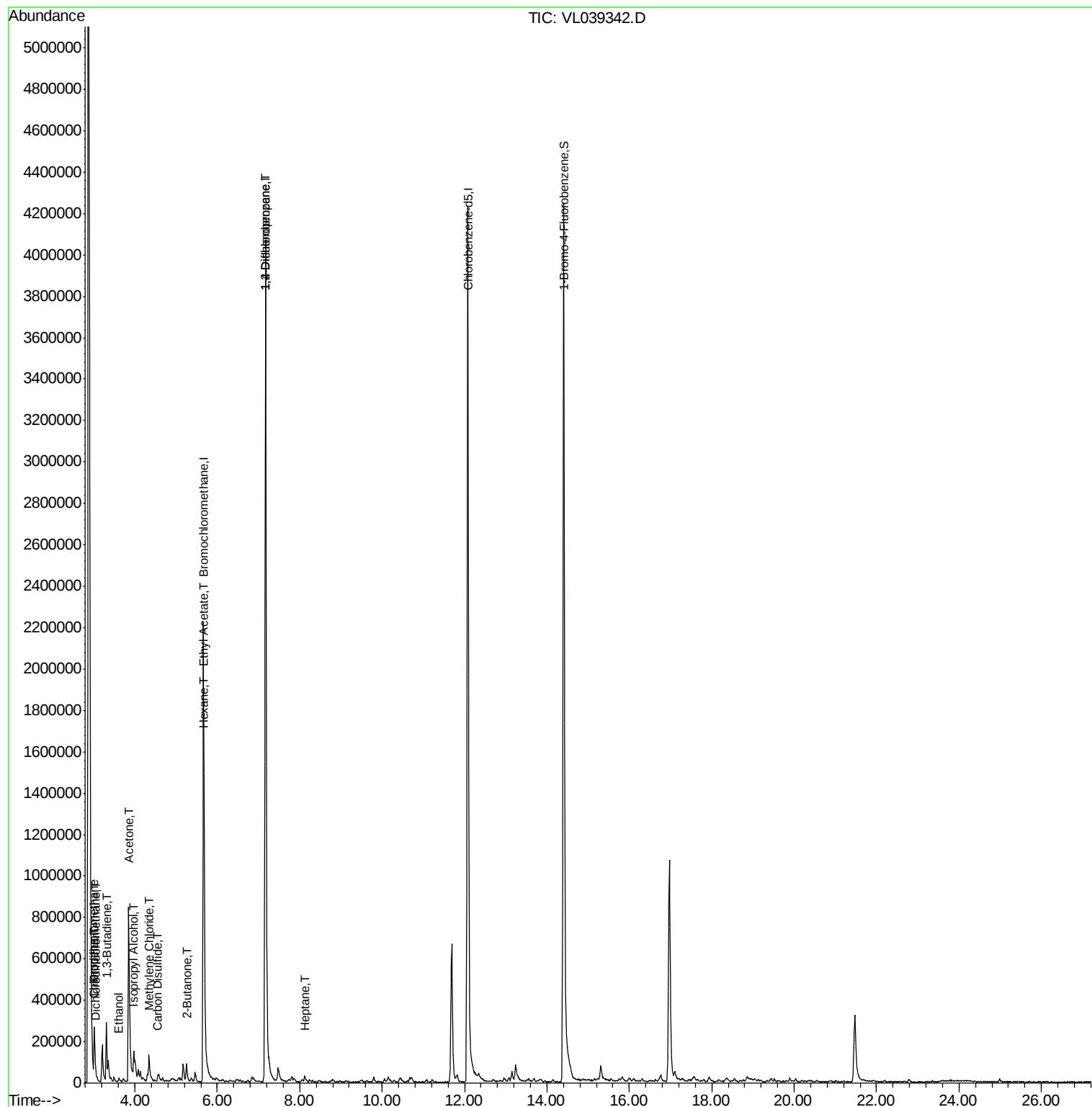
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	9967	0.046 ppbv	97
3) Chlorodifluoromethane	3.00	51	4938	0.032 ppbv #	85
9) Propene	3.01	41	114838	1.695 ppbv	96
10) Heptane	8.12	43	6214	0.039 ppbv #	1
13) Ethanol	3.60	45	5741	1.554 ppbv #	100
15) Acetone	3.85	43	1148778	9.031 ppbv	94
16) 1,3-Butadiene	3.31	39	87391	1.278 ppbv #	19
19) Isopropyl Alcohol	3.97	45	142415	2.387 ppbv #	93
20) Methylene Chloride	4.35	84	45919	0.857 ppbv #	83
25) Ethyl Acetate	5.68	43	27887	0.097 ppbv #	85
26) Hexane	5.69	57	17978	0.143 ppbv #	36
27) Carbon Disulfide	4.55	76	13829	0.106 ppbv #	58
34) 2-Butanone	5.26	43	106887	0.580 ppbv #	83
39) 1,2-Dichloropropane	7.17	63	845855	7.720 ppbv #	24

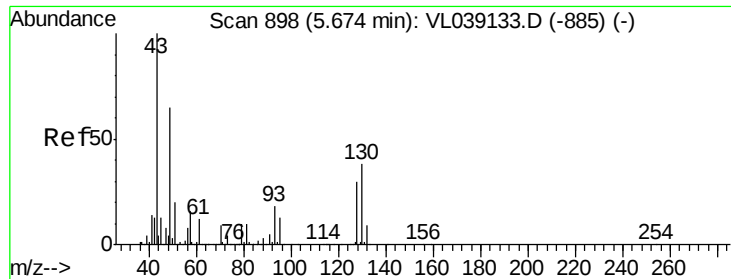
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 24 Jun 2022 15:42 SV-4-20220622DL

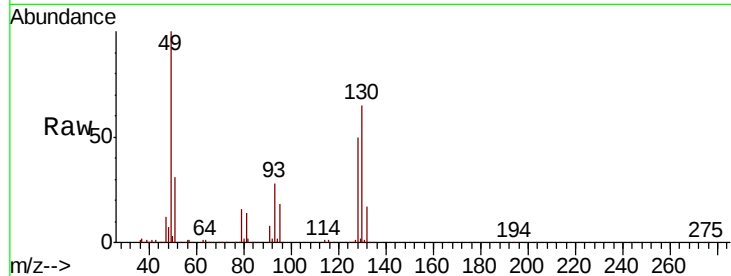
Tot Ion: 49 Resp: 1221153

Ion Ratio Lower Upper

49 100

128 53.3 24.7 74.1

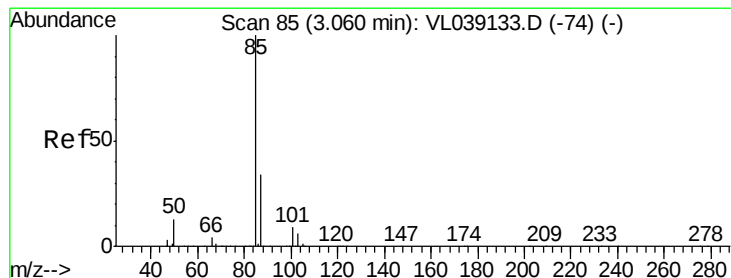
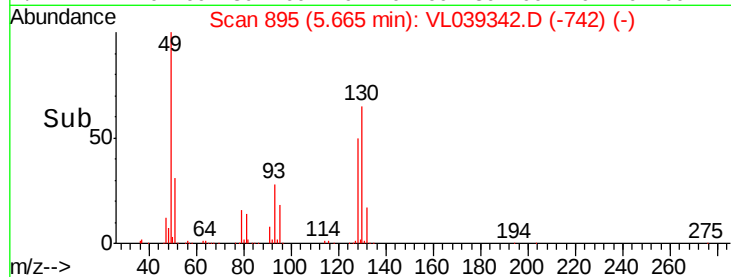
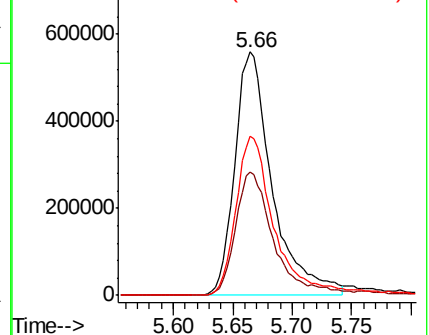
130 68.6 31.4 94.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.046 ppbv

RT: 3.05 min Scan# 82

Delta R.T. -0.01 min

Lab File: VL039342.D

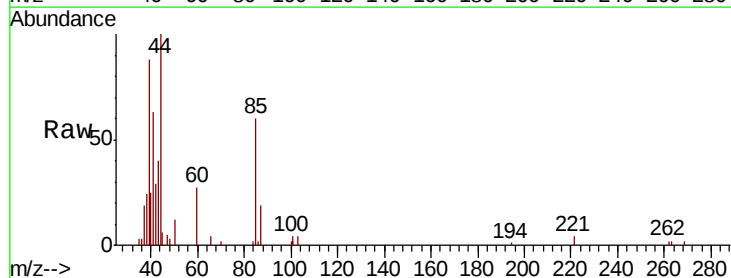
Acq: 24 Jun 2022 15:42

Tgt Ion: 85 Resp: 9967

Ion Ratio Lower Upper

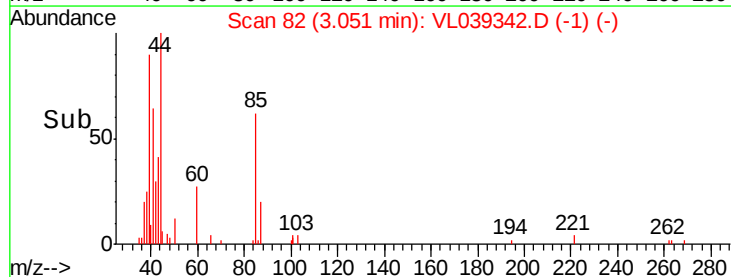
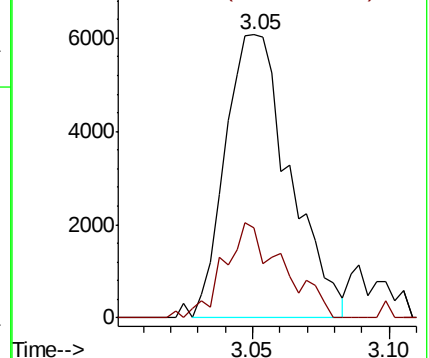
85 100

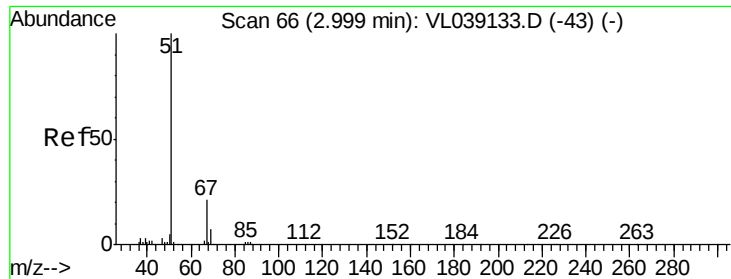
87 31.6 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.032 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

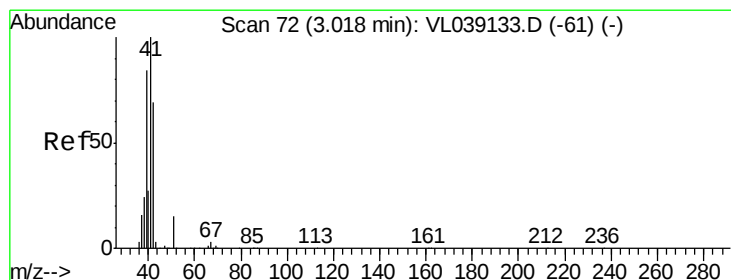
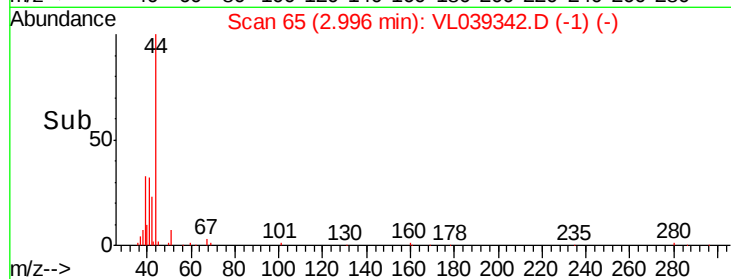
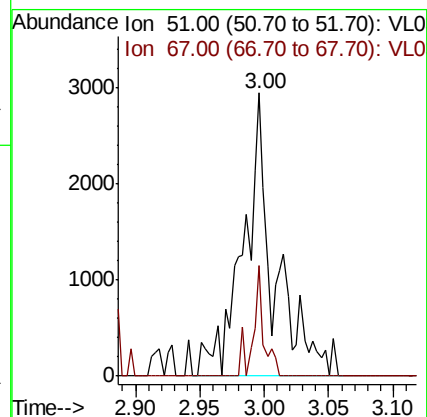
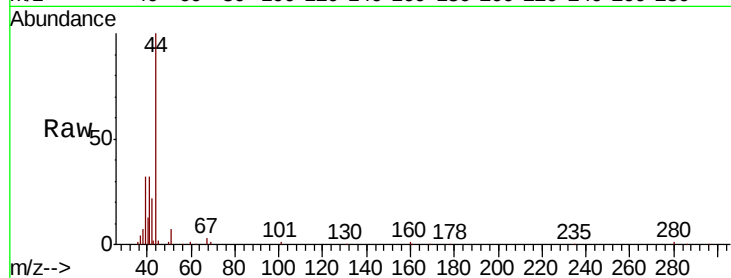
Acq: 24 Jun 2022 15:42 SV-4-20220622DL

Tot Ion: 51 Resp: 4938

Ion Ratio Lower Upper

51 100

67 13.6 16.2 24.4#



#9

Propene

Concen: 1.695 ppbv

RT: 3.01 min Scan# 70

Delta R.T. -0.01 min

Lab File: VL039342.D

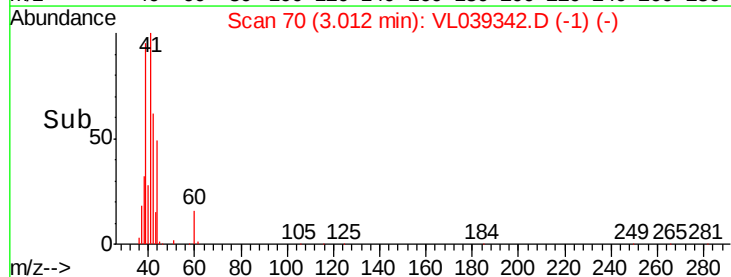
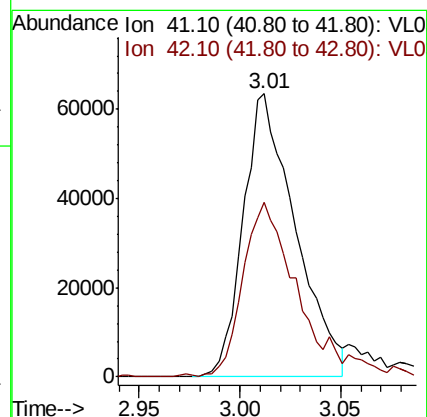
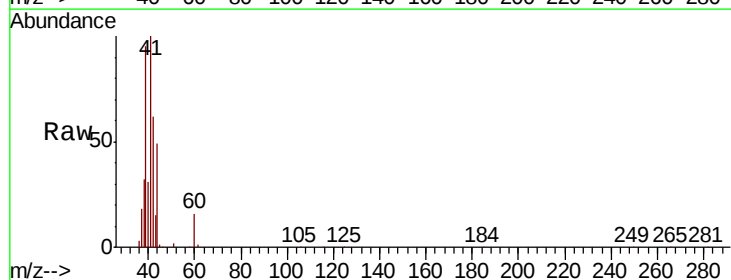
Acq: 24 Jun 2022 15:42

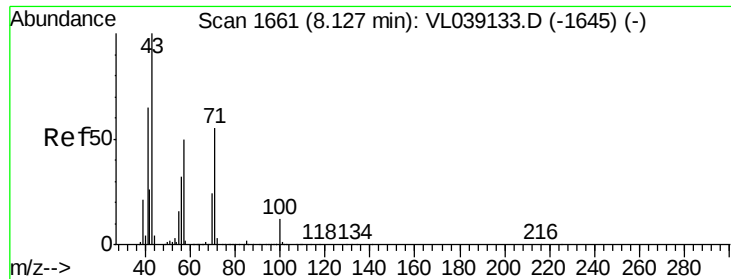
Tgt Ion: 41 Resp: 114838

Ion Ratio Lower Upper

41 100

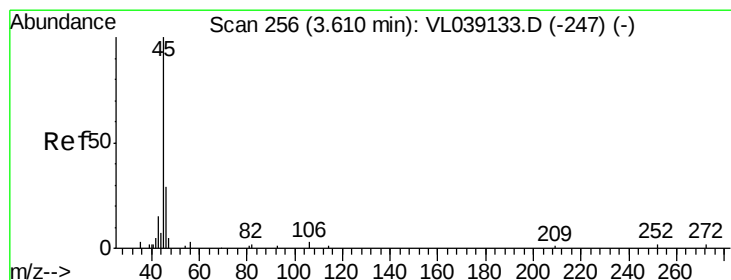
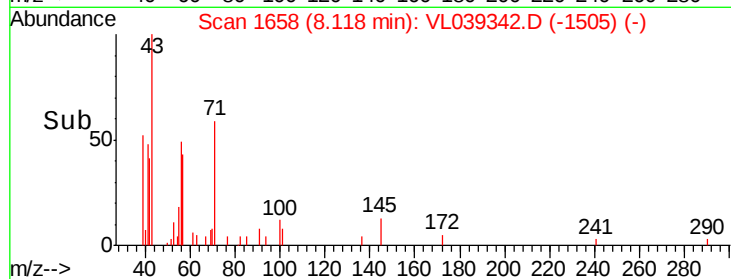
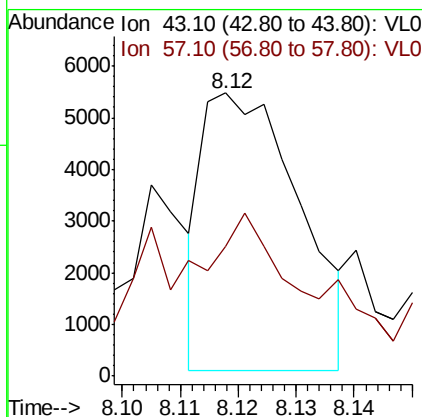
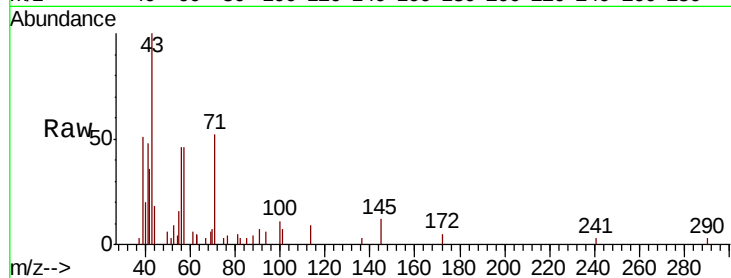
42 65.9 55.4 83.2





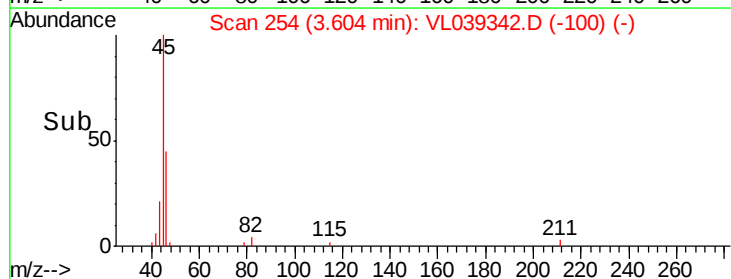
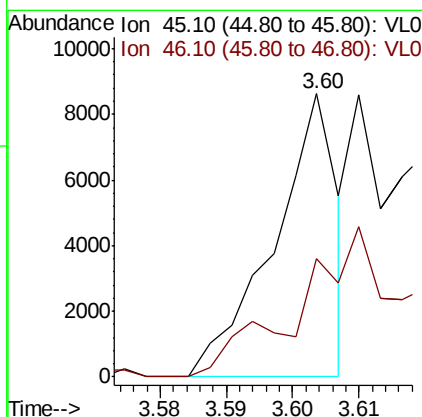
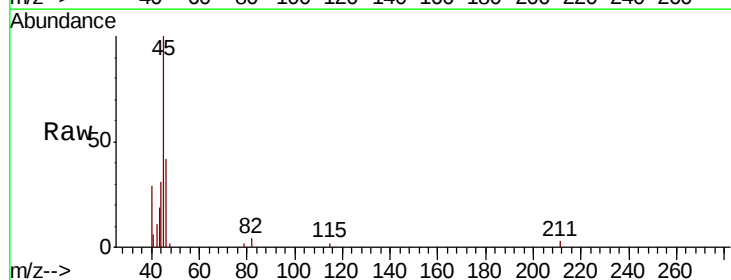
#10
 Heptane
 Concen: 0.039 ppbv
 RT: 8.12
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Jun 2022 15:42 SV-4-20220622DL

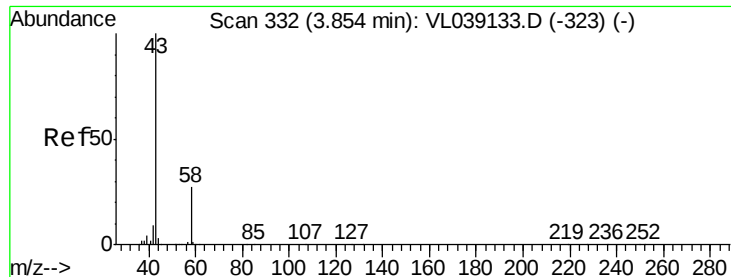
Tot Ion: 43 Resp: 6214
 Ion Ratio Lower Upper
 43 100
 57 127.1 41.4 62.2#



#13
 Ethanol
 Concen: 1.554 ppbv
 RT: 3.60 min Scan# 254
 Delta R.T. -0.01 min
 Lab File: VL039342.D
 Acq: 24 Jun 2022 15:42

Tgt Ion: 45 Resp: 5741
 Ion Ratio Lower Upper
 45 100
 46 174.0 0.0 0.0#





#15

Acetone

Concen: 9.031 ppbv

RT: 3.85

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

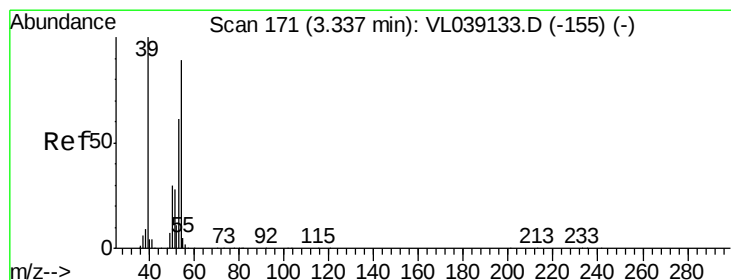
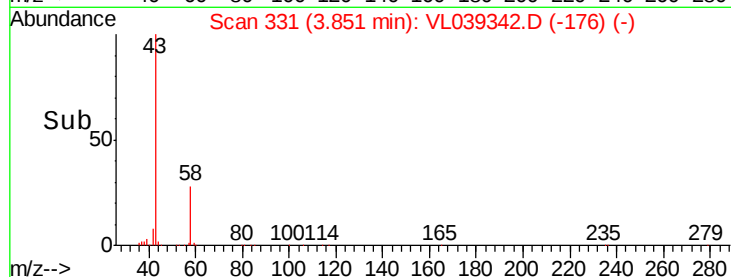
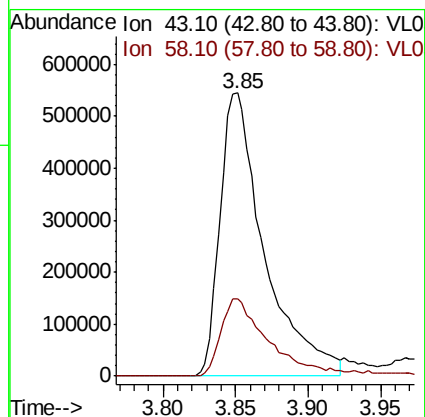
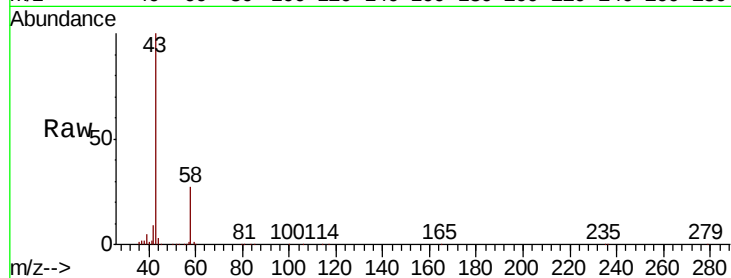
Acq: 24 Jun 2022 15:42

Tot Ion: 43 Resp: 1148778

Ion Ratio Lower Upper

43 100

58 31.4 22.5 33.7



#16

1,3-Butadiene

Concen: 1.278 ppbv

RT: 3.31 min Scan# 162

Delta R.T. -0.03 min

Lab File: VL039342.D

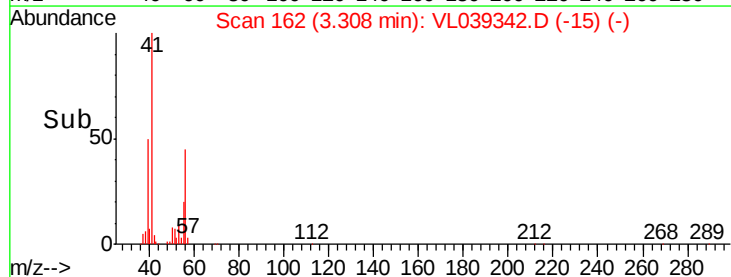
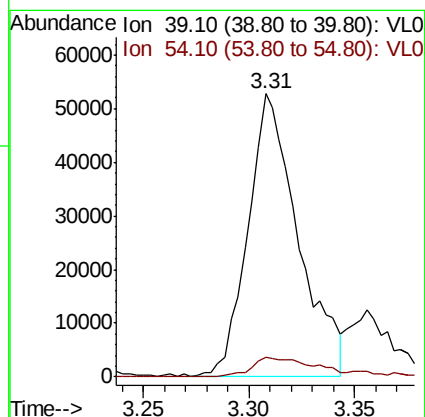
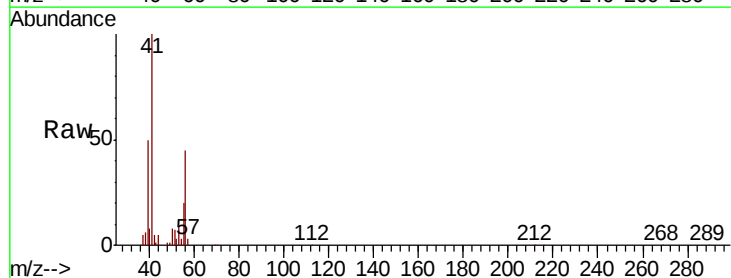
Acq: 24 Jun 2022 15:42

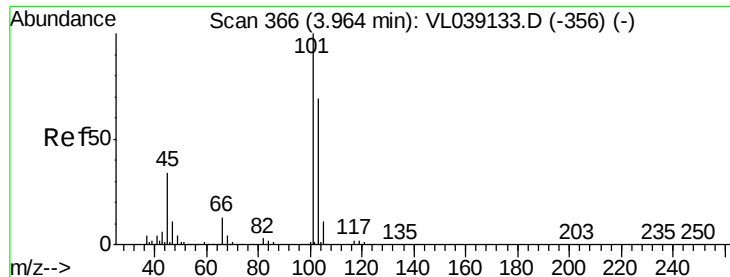
Tgt Ion: 39 Resp: 87391

Ion Ratio Lower Upper

39 100

54 10.1 65.8 98.6#





#19

Isopropyl Alcohol

Concen: 2.387 ppbv

RT: 3.97

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

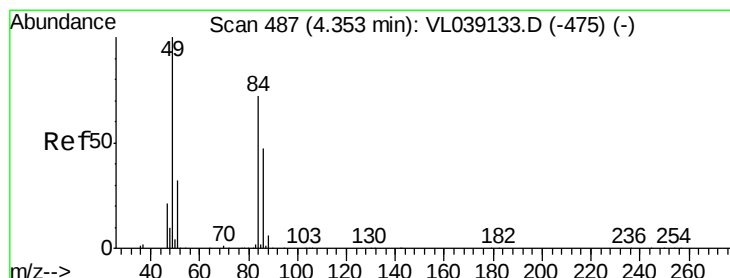
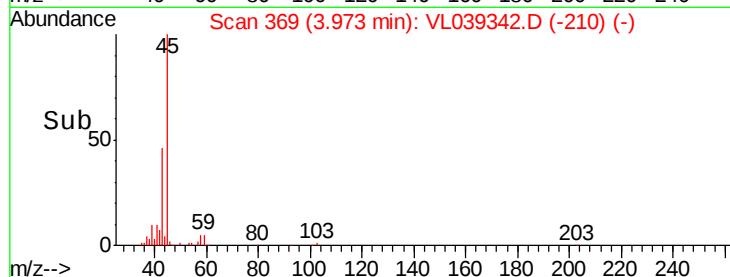
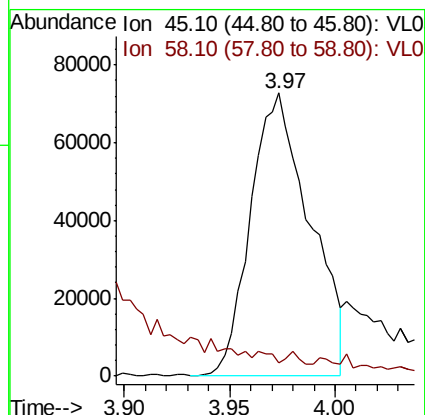
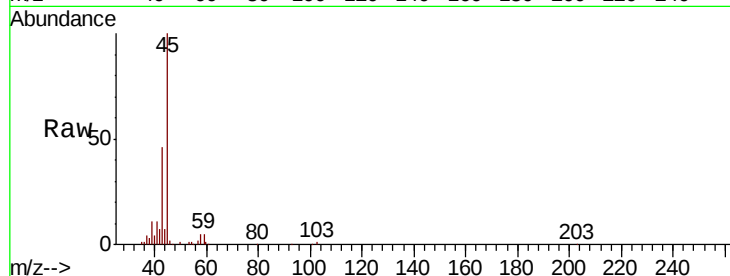
Acq: 24 Jun 2022 15:42

Tot Ion: 45 Resp: 142415

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.8#



#20

Methylene Chloride

Concen: 0.857 ppbv

RT: 4.35 min Scan# 485

Delta R.T. -0.01 min

Lab File: VL039342.D

Acq: 24 Jun 2022 15:42

Tgt Ion: 84 Resp: 45919

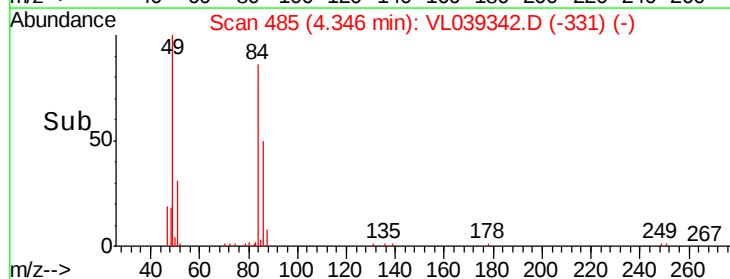
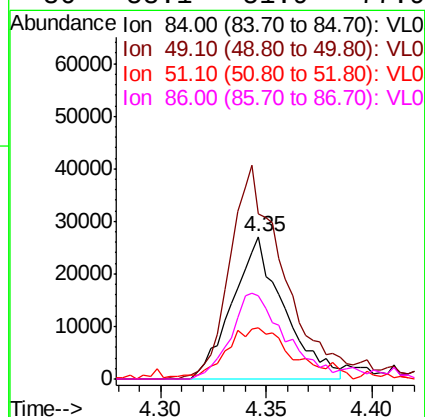
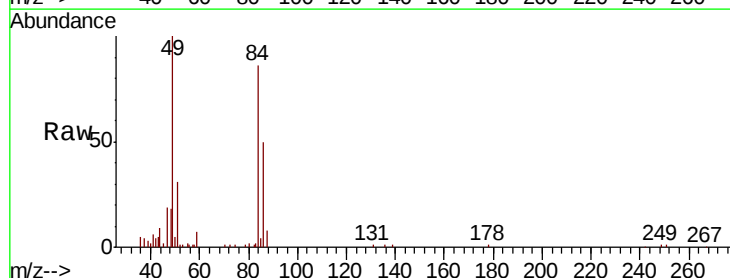
Ion Ratio Lower Upper

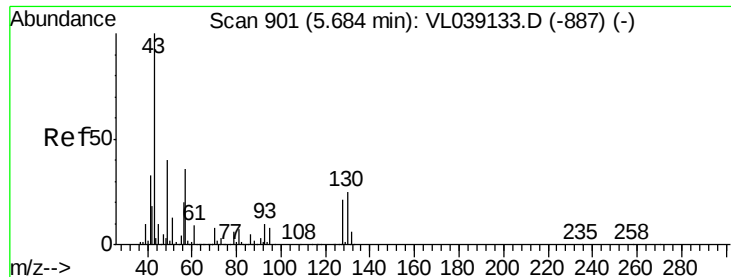
84 100

49 113.5 111.1 166.7

51 33.5 35.3 52.9#

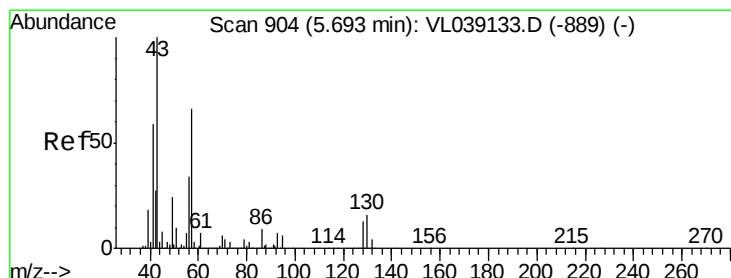
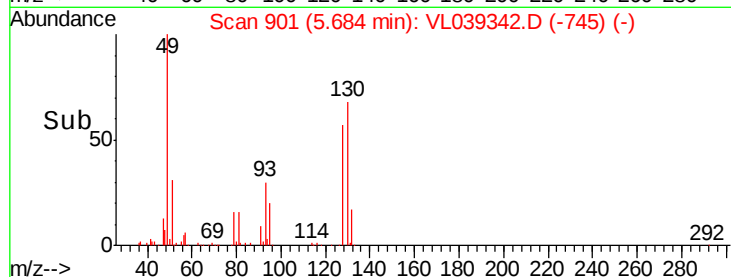
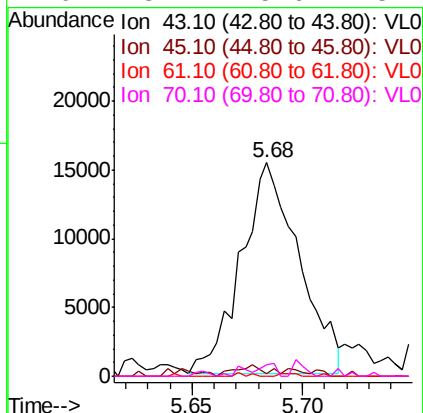
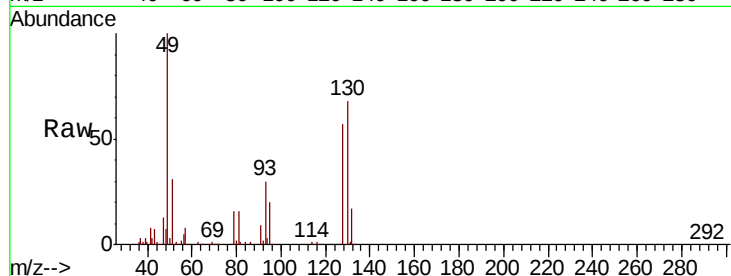
86 58.1 51.9 77.9





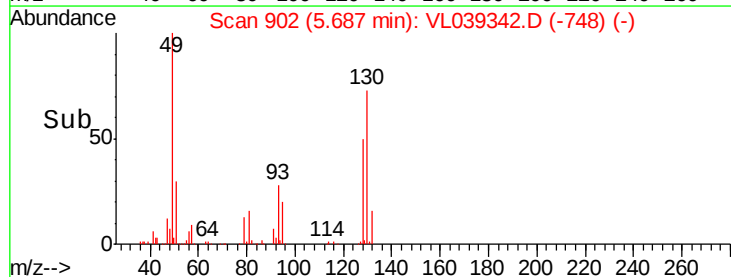
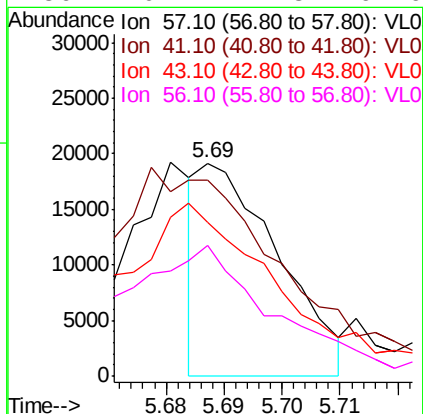
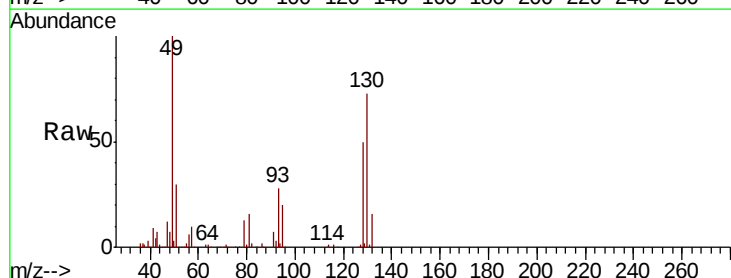
#25
Ethyl Acetate
Concen: 0.097 ppbv
RT: 5.68
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV-4-20220622DL
Acq: 24 Jun 2022 15:42

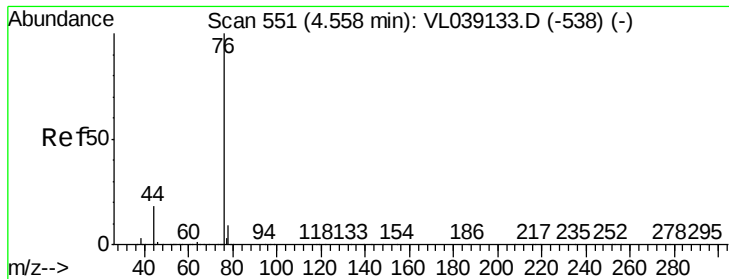
Tot Ion:	43	Resp:	27887
Ion	Ratio	Lower	Upper
43	100		
45	6.4	8.2	12.2#
61	0.8	8.4	12.6#
70	5.7	5.6	8.4



#26
Hexane
Concen: 0.143 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL039342.D
Acq: 24 Jun 2022 15:42

Tgt Ion:	57	Resp:	17978
Ion	Ratio	Lower	Upper
57	100		
41	0.0	72.4	108.6#
43	171.2	187.0	280.6#
56	140.2	41.8	62.6#





#27

Carbon Disulfide

Concen: 0.106 ppbv

RT: 4.55 Instrument: MSVOA_1

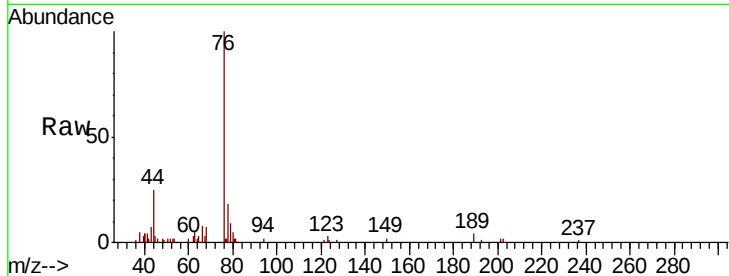
Delta R.T. ClientSampleId:

Lab File: SV-4-20220622DL

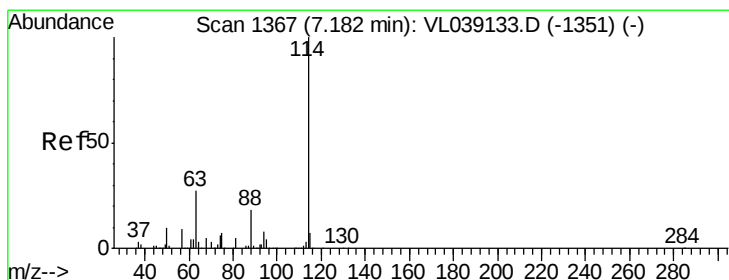
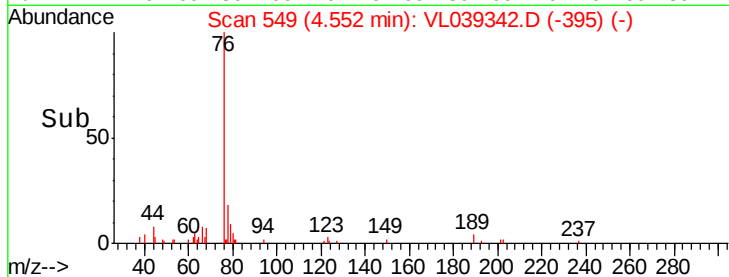
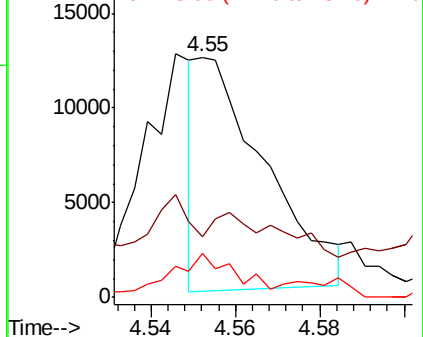
Acq: 24 Jun 2022 15:42

Tot Ion: 76 Resp: 13829

Ion	Ratio	Lower	Upper
76	100		
44	0.0	14.4	21.6#
78	25.4	7.7	11.5#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1363

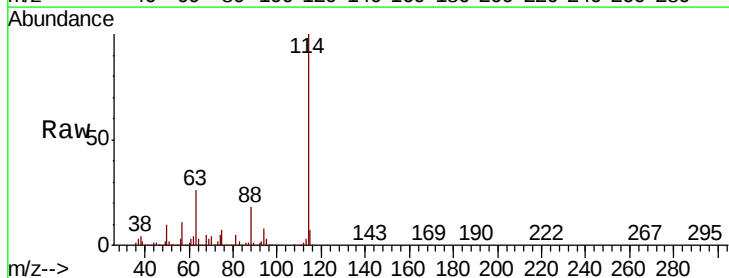
Delta R.T. -0.01 min

Lab File: VL039342.D

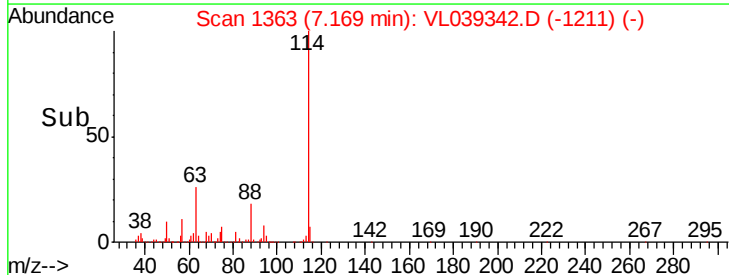
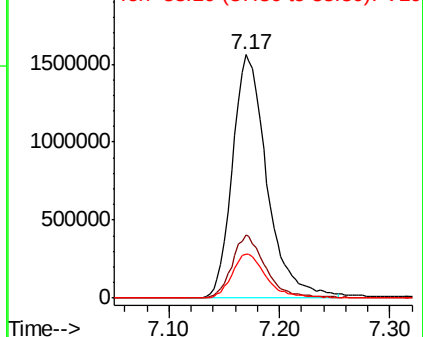
Acq: 24 Jun 2022 15:42

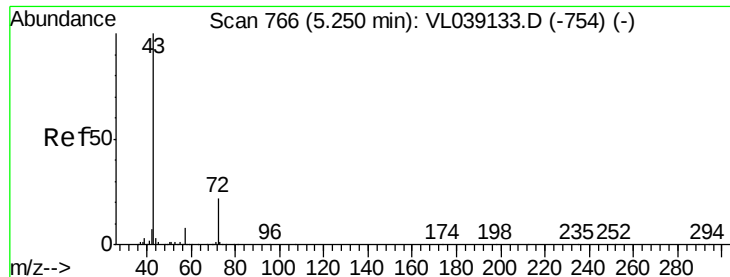
Tgt Ion: 114 Resp: 3393019

Ion	Ratio	Lower	Upper
114	100		
63	25.6	21.7	32.5
88	18.2	14.8	22.2



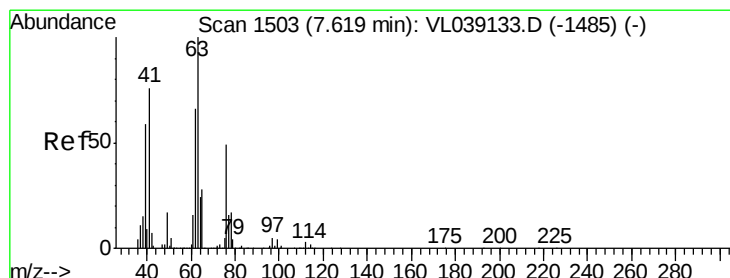
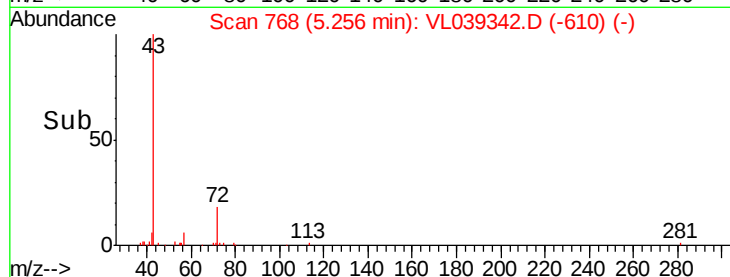
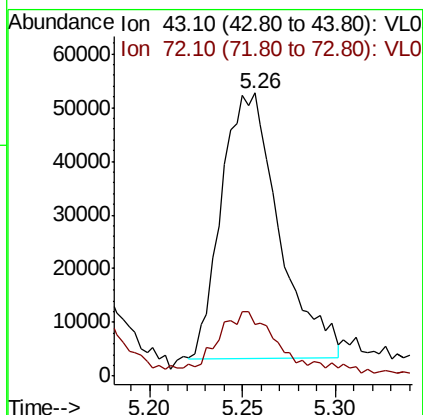
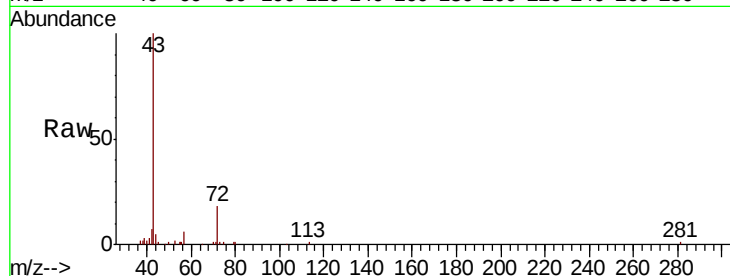
Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





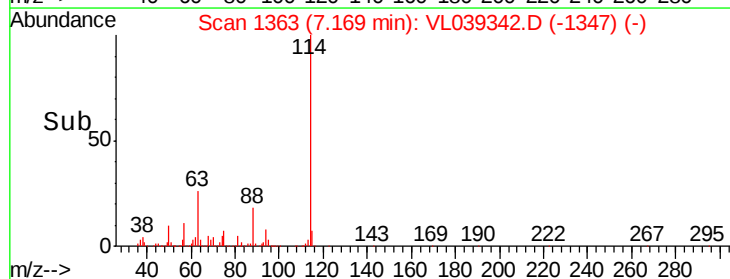
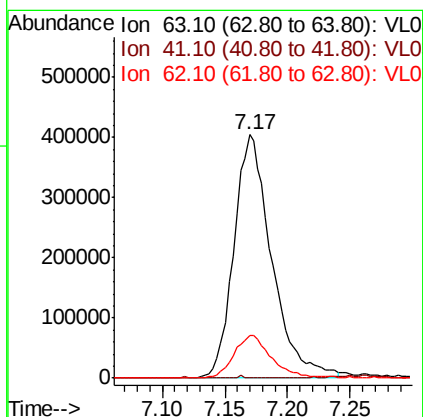
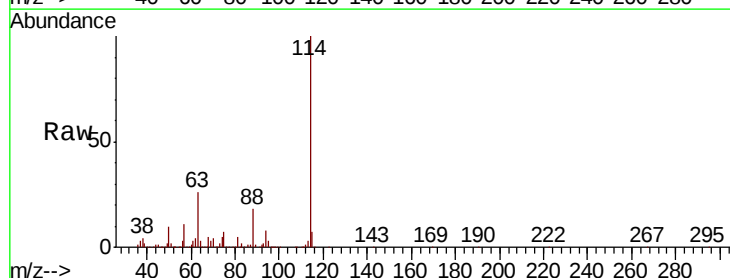
#34
 2-Butanone
 Concen: 0.580 ppbv
 RT: 5.26
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV-4-20220622DL
 Acq: 24 Jun 2022 15:42

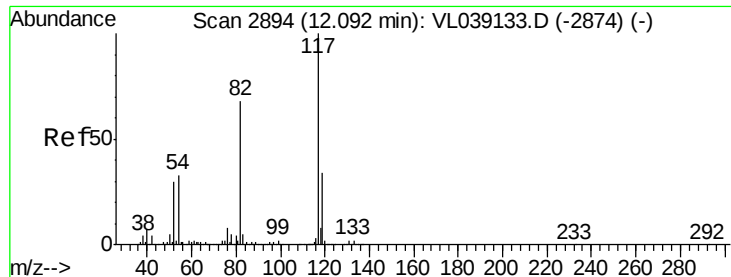
Tot Ion: 43 Resp: 106887
 Ion Ratio Lower Upper
 43 100
 72 30.7 18.2 27.2#



#39
 1,2-Dichloropropane
 Concen: 7.720 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.45 min
 Lab File: VL039342.D
 Acq: 24 Jun 2022 15:42

Tgt Ion: 63 Resp: 845855
 Ion Ratio Lower Upper
 63 100
 41 0.1 60.8 91.2#
 62 17.2 52.9 79.3#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Jun 2022 15:42

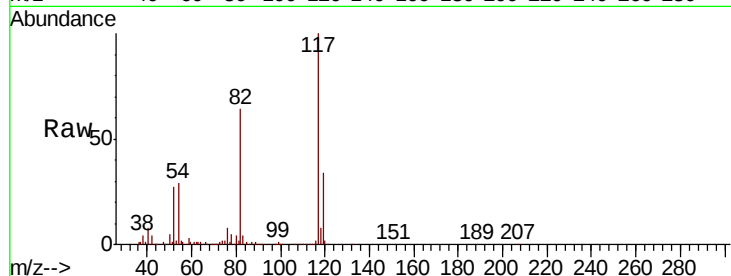
Tot Ion:117 Resp: 3017574

Ion Ratio Lower Upper

117 100

82 66.4 55.1 82.7

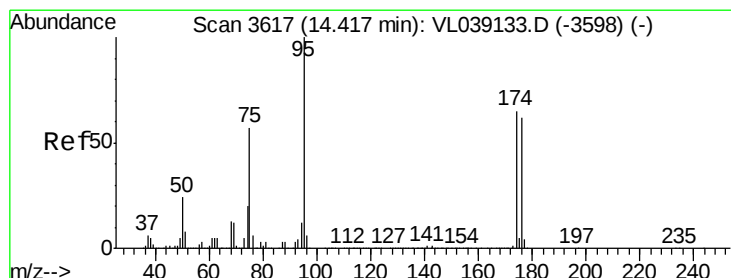
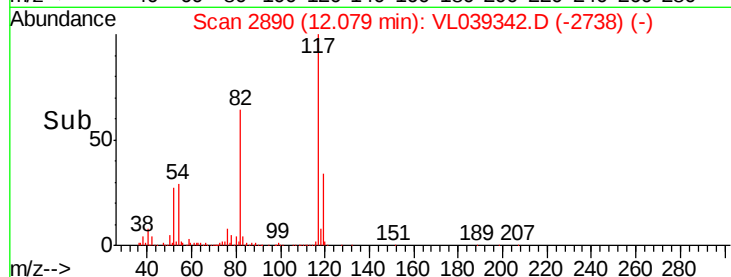
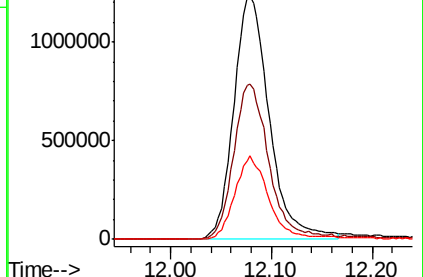
119 34.0 24.7 37.1



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 8.904 ppbv

RT: 14.41 min Scan# 3614

Delta R.T. -0.01 min

Lab File: VL039342.D

Acq: 24 Jun 2022 15:42

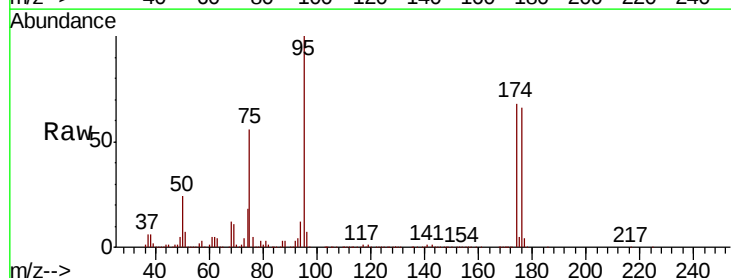
Tgt Ion: 95 Resp: 2221190

Ion Ratio Lower Upper

95 100

174 71.7 53.8 80.8

175 5.4 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

