

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032222\
 Data File : VL038711.D
 Acq On : 23 Mar 2022 9:51
 Operator : SY/AP
 Sample : N1961-14DL2 20X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 24 02:53:15 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	671545	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	1783972	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.06	117	1542921	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	1142806	9.66	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

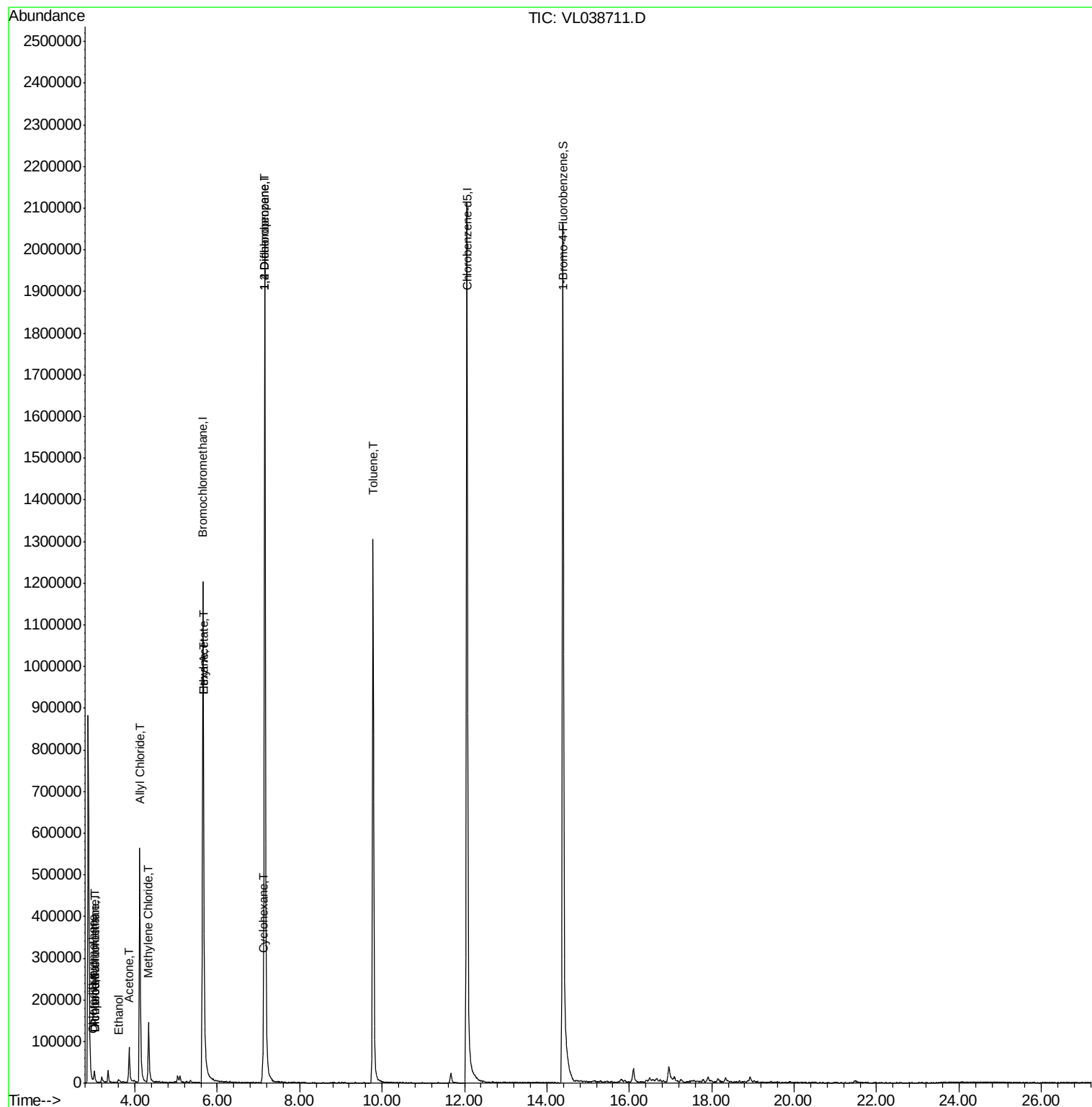
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	3744	0.041 ppbv	93
3) Chlorodifluoromethane	2.98	51	10319	0.145 ppbv	95
8) Dichlorotetrafluoroethane	3.04	85	3744	0.042 ppbv #	13
9) Propene	3.01	41	7888	0.230 ppbv	84
13) Ethanol	3.60	45	3277	0.868 ppbv #	1
15) Acetone	3.86	43	46346	0.800 ppbv #	72
20) Methylene Chloride	4.33	84	62753	2.571 ppbv	96
21) Allyl Chloride	4.12	41	196794	4.719 ppbv #	54
25) Ethyl Acetate	5.67	43	49707	0.341 ppbv #	91
26) Hexane	5.67	57	44639	0.684 ppbv #	54
30) Cyclohexane	7.11	84	8793	0.155 ppbv #	1
39) 1,2-Dichloropropane	7.15	63	416528	7.738 ppbv #	29
53) Toluene	9.78	91	1142149	7.720 ppbv	100

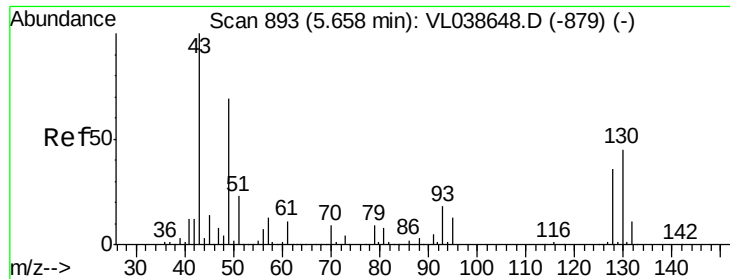
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032222\
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Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Mar 24 02:53:15 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032122AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
QLast Update : Mon Mar 21 17:09:26 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 9:51

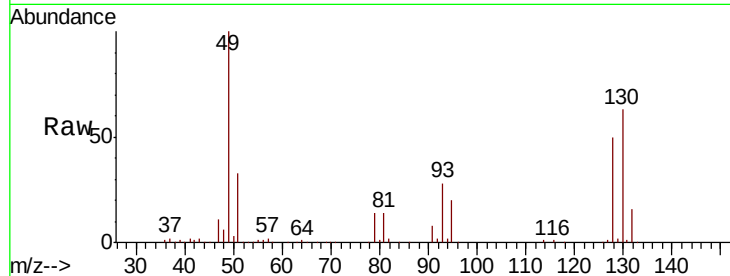
Tot Ion: 49 Resp: 671545

Ion Ratio Lower Upper

49 100

128 54.2 26.2 78.6

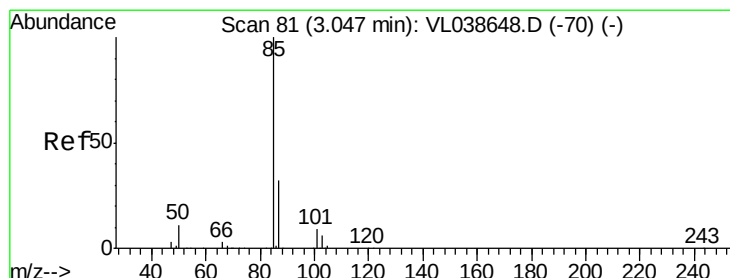
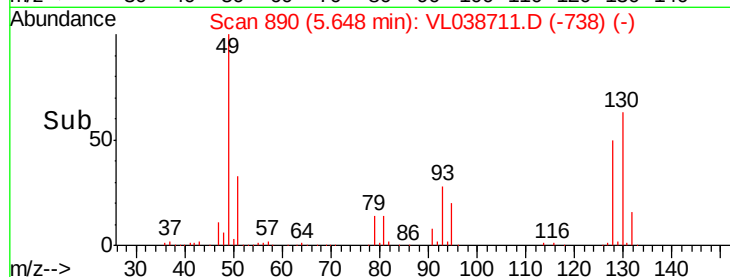
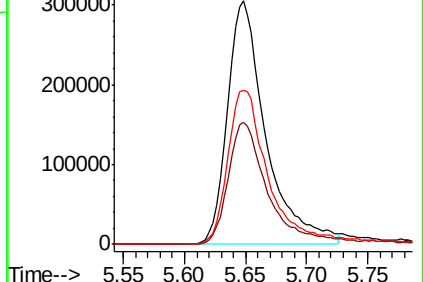
130 70.1 33.7 101.1



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: 0.041 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL038711.D

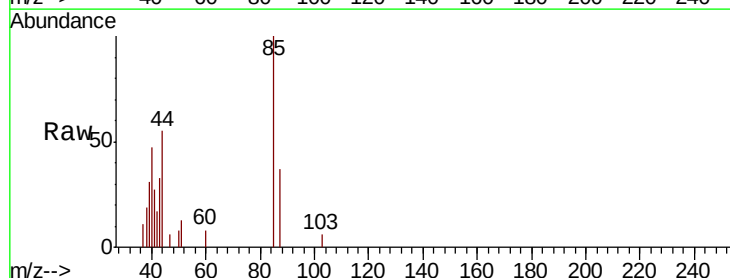
Acq: 23 Mar 2022 9:51

Tgt Ion: 85 Resp: 3744

Ion Ratio Lower Upper

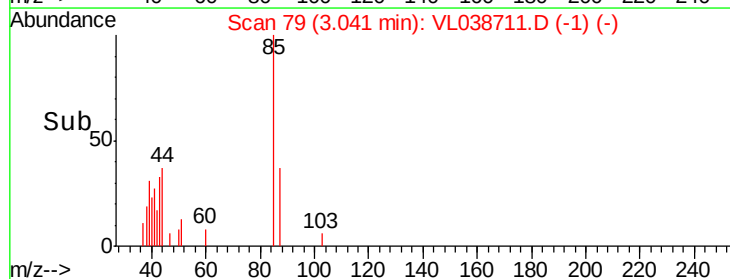
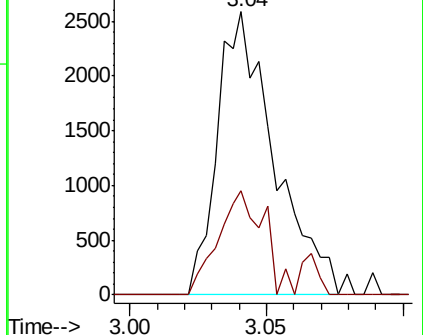
85 100

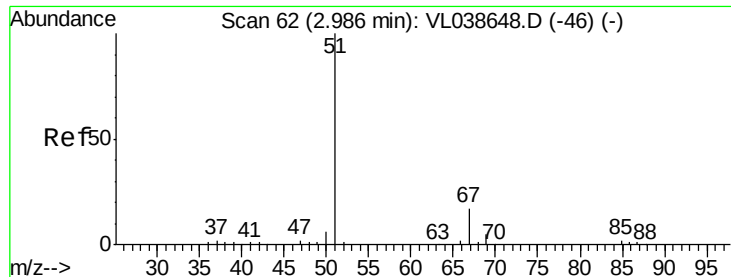
87 36.6 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.145 ppbv

RT: 2.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

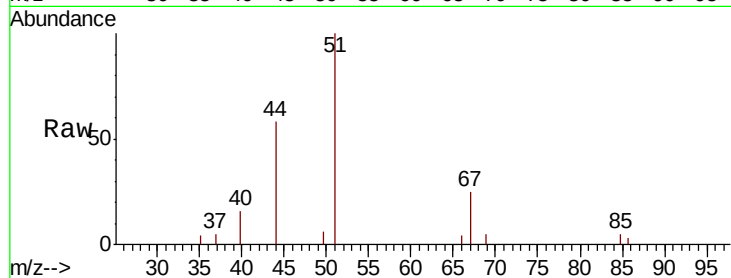
Acq: 23 Mar 2022 9:51

Tot Ion: 51 Resp: 10319

Ion Ratio Lower Upper

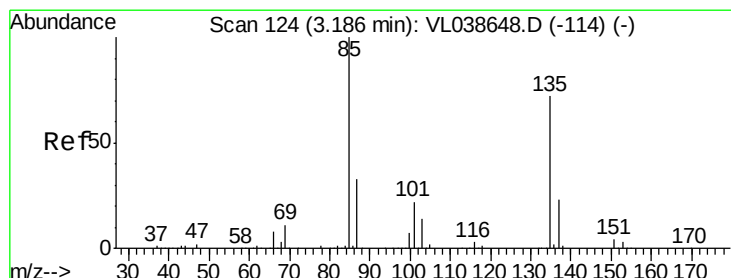
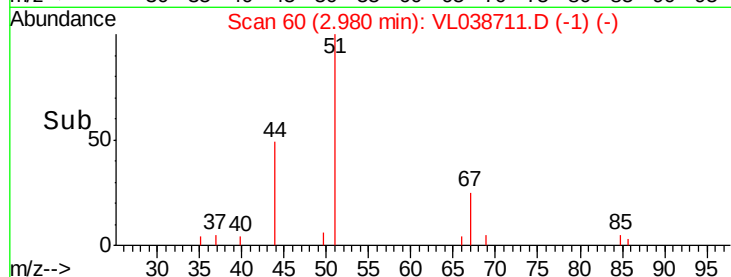
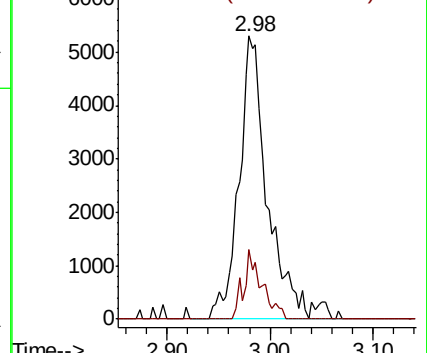
51 100

67 15.6 14.1 21.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.042 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.14 min

Lab File: VL038711.D

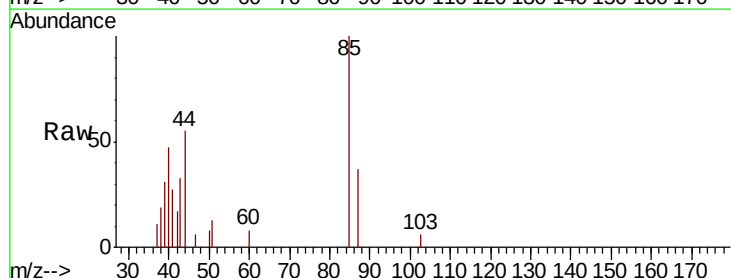
Acq: 23 Mar 2022 9:51

Tgt Ion: 85 Resp: 3744

Ion Ratio Lower Upper

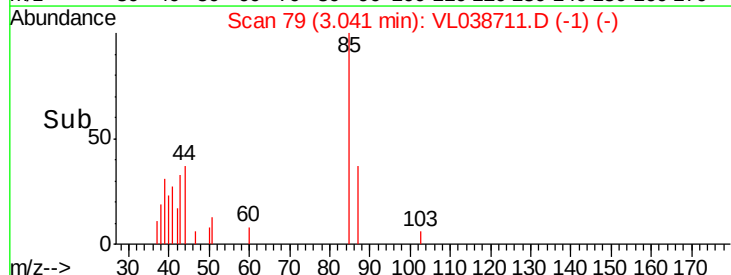
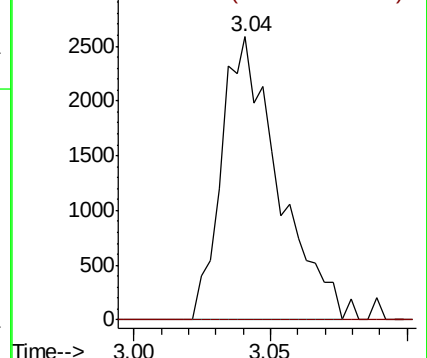
85 100

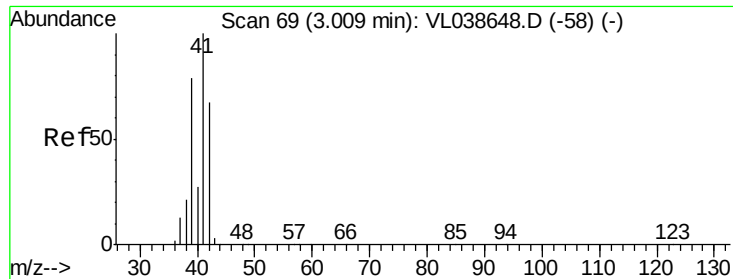
135 0.0 57.8 86.6#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.230 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

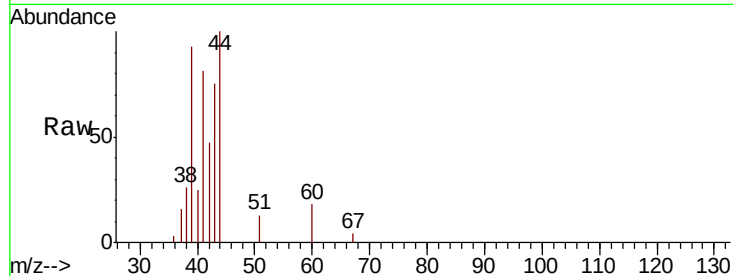
Acq: 23 Mar 2022 9:51

Tot Ion: 41 Resp: 7888

Ion Ratio Lower Upper

41 100

42 57.3 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.01

4000

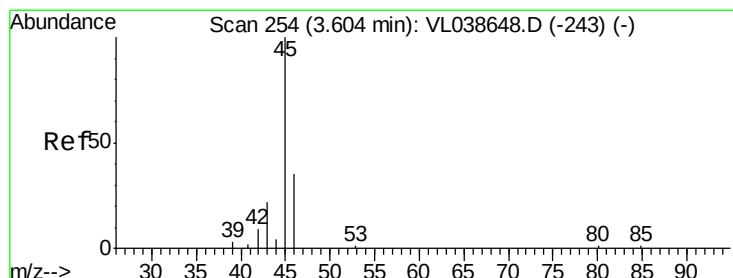
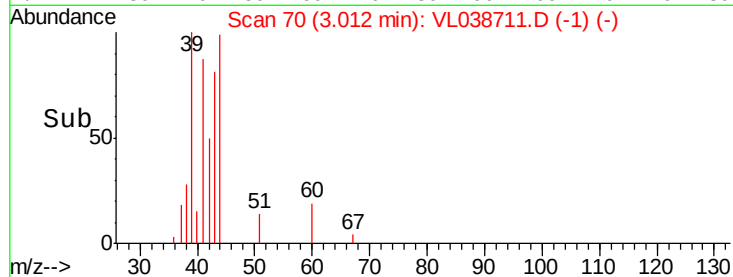
3000

2000

1000

0

Time-->



#13

Ethanol

Concen: 0.868 ppbv

RT: 3.60 min Scan# 254

Delta R.T. -0.00 min

Lab File: VL038711.D

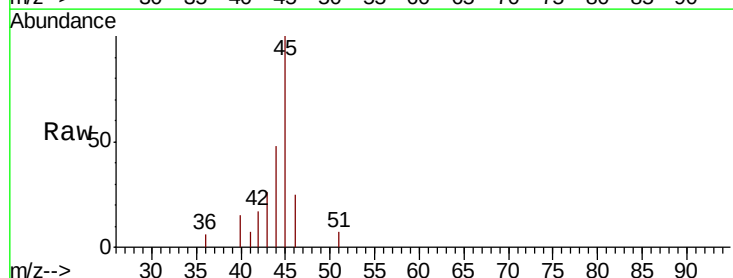
Acq: 23 Mar 2022 9:51

Tgt Ion: 45 Resp: 3277

Ion Ratio Lower Upper

45 100

46 97.1 15.1 60.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

3.60

4000

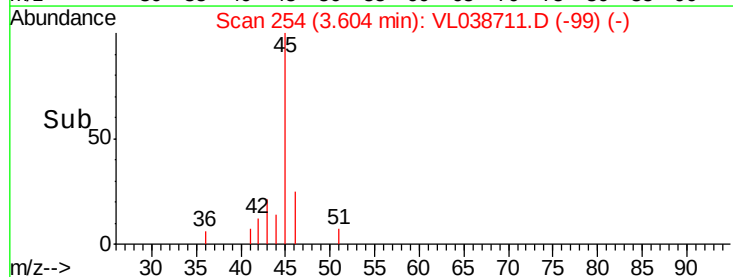
3000

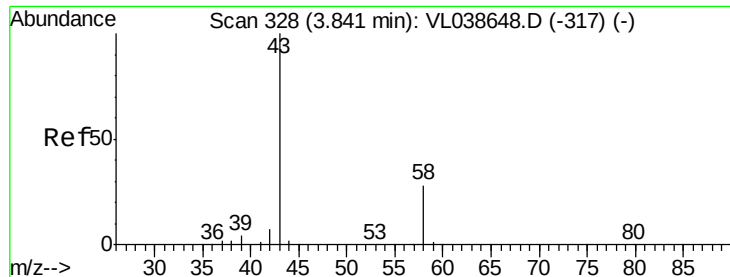
2000

1000

0

Time-->





#15

Acetone

Concen: 0.800 ppbv

RT: 3.86 Instrument:

Delta R.T. MSVOA_L

Lab File:

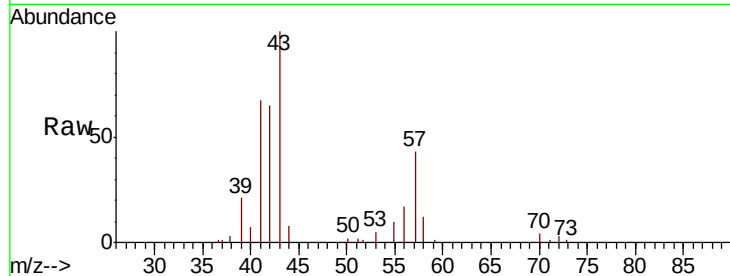
Acq: 23 Mar 2022 9:51

Tot Ion: 43 Resp: 46346

Ion Ratio Lower Upper

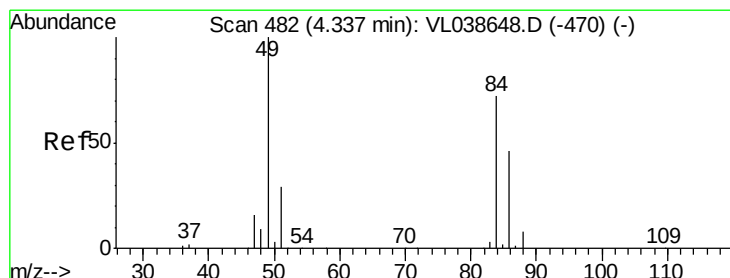
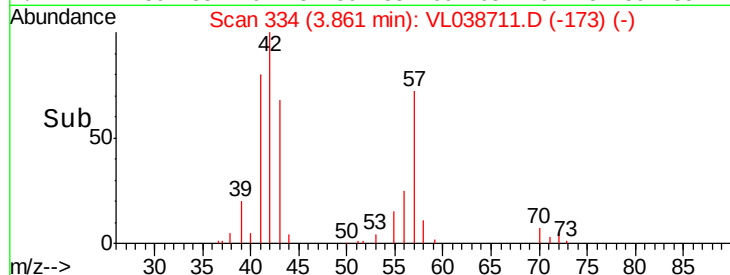
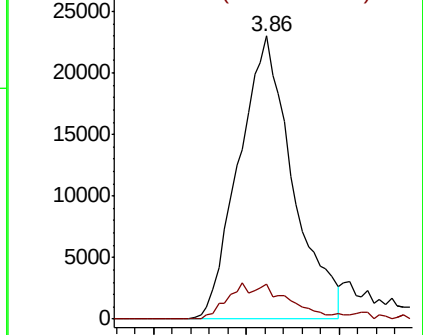
43 100

58 14.0 23.3 34.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 2.571 ppbv

RT: 4.33 min Scan# 480

Delta R.T. -0.01 min

Lab File: VL038711.D

Acq: 23 Mar 2022 9:51

Tgt Ion: 84 Resp: 62753

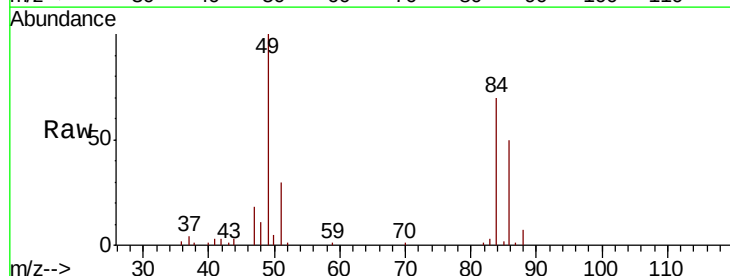
Ion Ratio Lower Upper

84 100

49 142.0 111.2 166.8

51 42.4 32.8 49.2

86 71.0 51.4 77.0

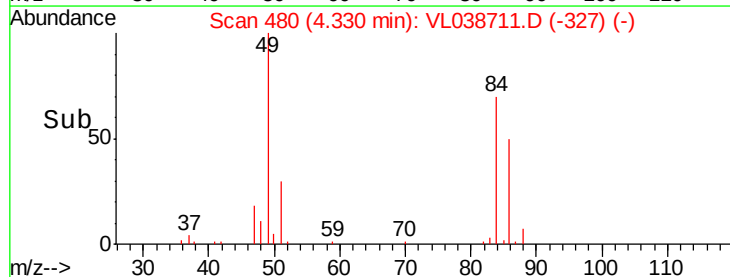
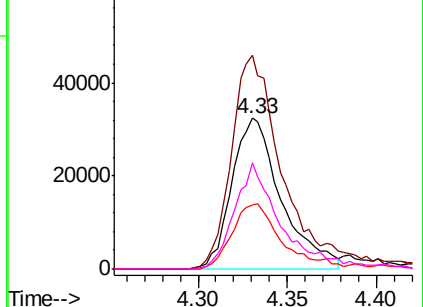


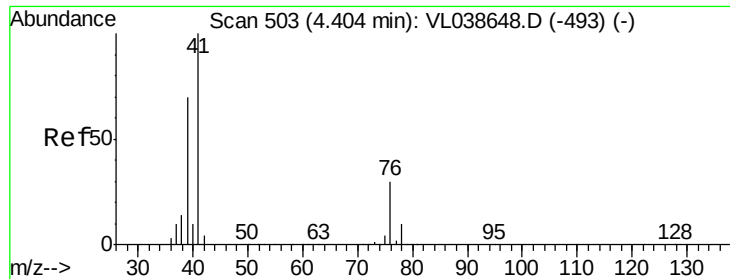
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#21

Allvl Chloride

Concen: 4.719 ppbv

RT: 4.12 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 9:51

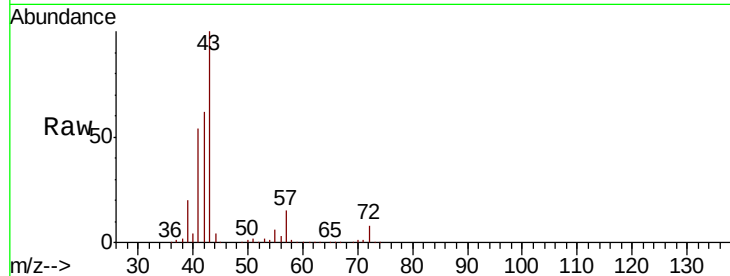
Tot Ion: 41 Resp: 196794

Ion Ratio Lower Upper

41 100

76 0.0 25.0 37.6#

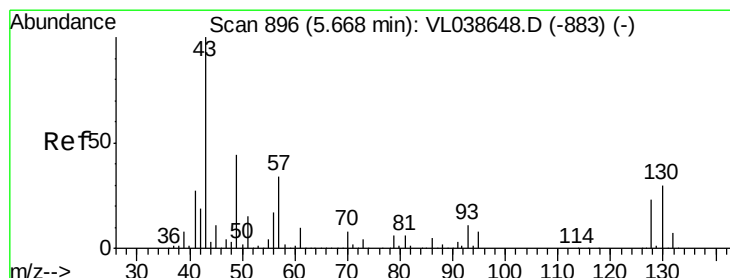
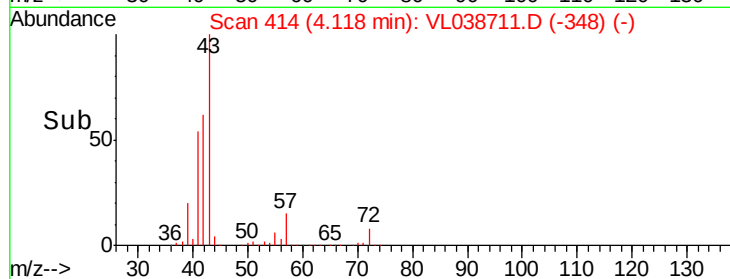
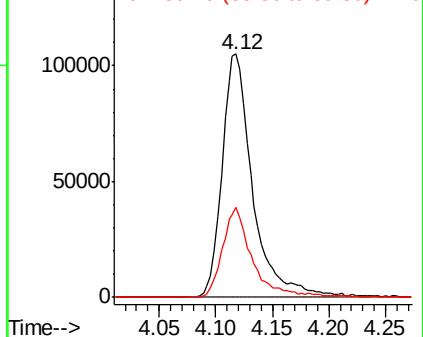
39 36.7 56.6 85.0#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#25

Ethyl Acetate

Concen: 0.341 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.00 min

Lab File: VL038711.D

Acq: 23 Mar 2022 9:51

Tgt Ion: 43 Resp: 49707

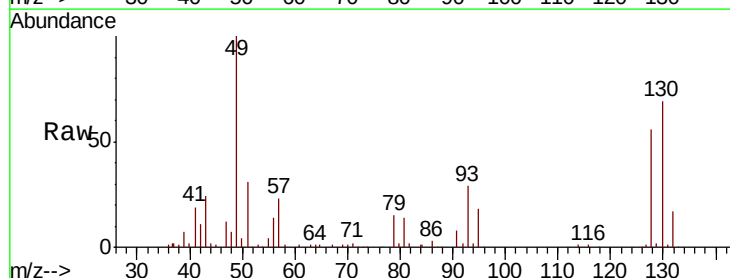
Ion Ratio Lower Upper

43 100

45 7.3 8.2 12.4#

61 6.0 8.3 12.5#

70 4.7 5.6 8.4#

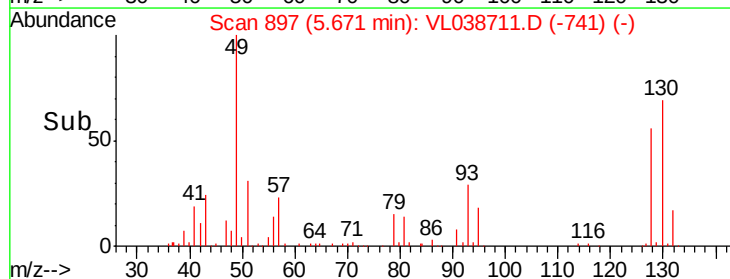
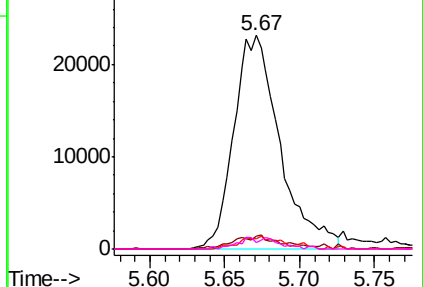


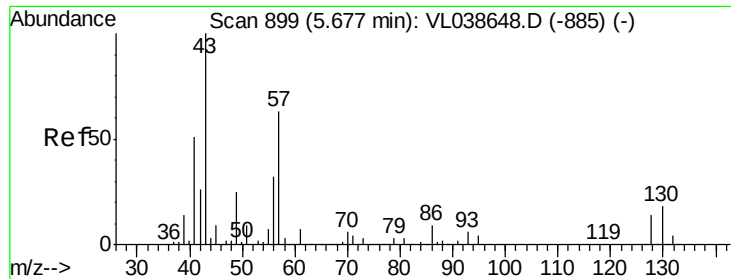
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

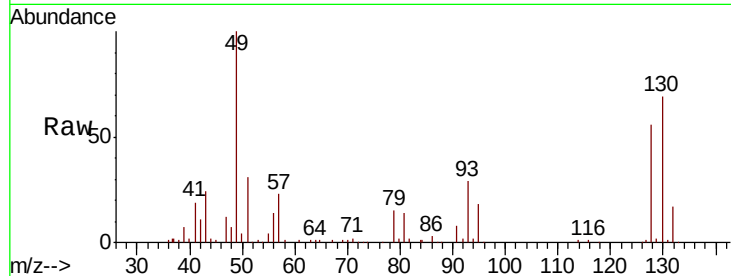
Ion 70.10 (69.80 to 70.80): VL0





#26
Hexane
Concen: 0.684 ppbv
RT: 5.67 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 23 Mar 2022 9:51

Tot Ion	57	Resp	44639
Ion Ratio	Lower	Upper	
57	100		
41	93.0	67.0	100.4
43	117.8	184.2	276.2#
56	60.4	42.6	64.0



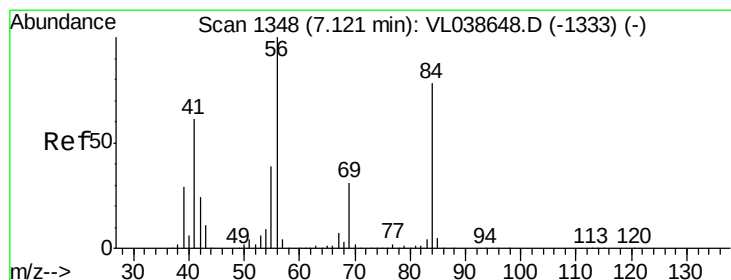
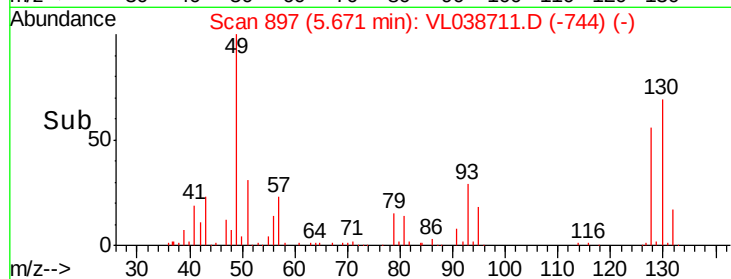
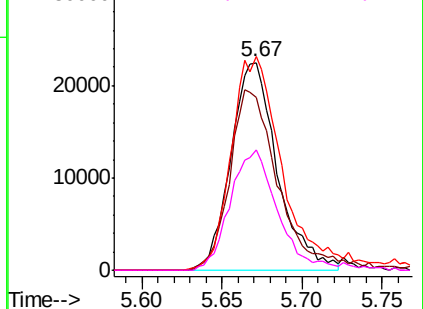
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

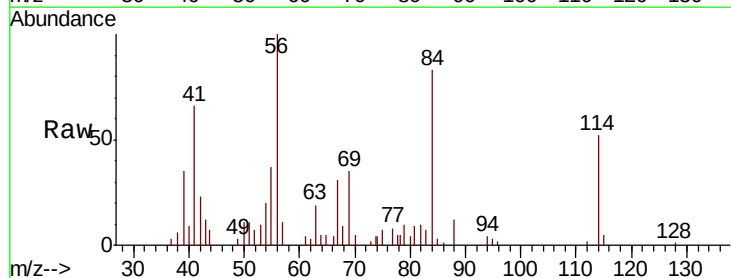
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#30
Cyclohexane
Concen: 0.155 ppbv
RT: 7.11 min Scan# 1346
Delta R.T.: -0.01 min
Lab File: VL038711.D
Acq: 23 Mar 2022 9:51

Tgt Ion	84	Resp	8793
Ion Ratio	Lower	Upper	
84	100		
56	279.5	108.2	162.4#
41	210.3	61.8	92.6#

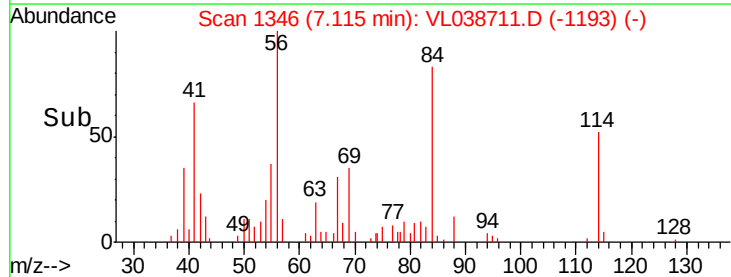
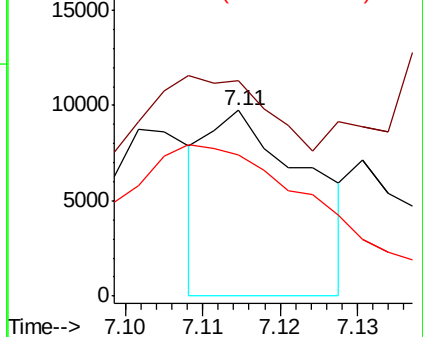


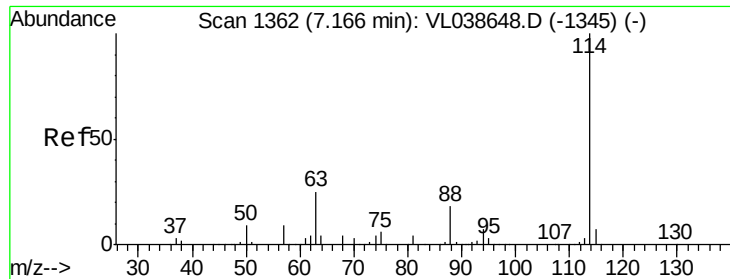
Abundance

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

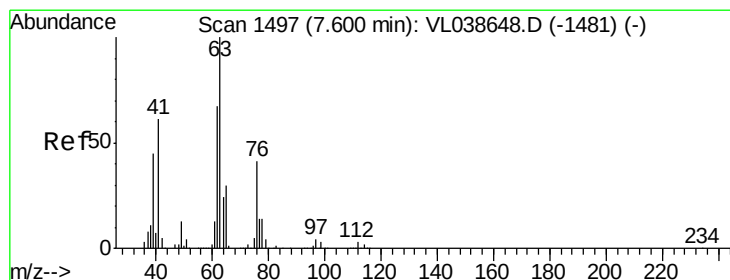
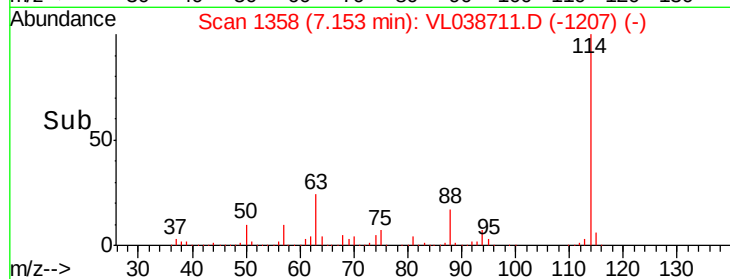
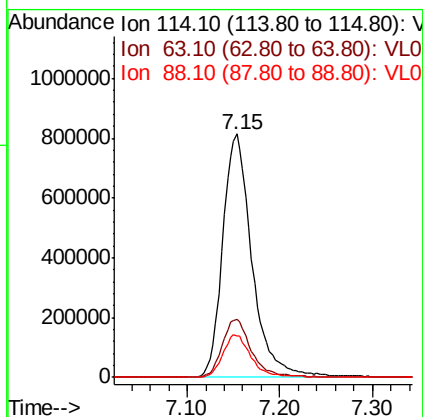
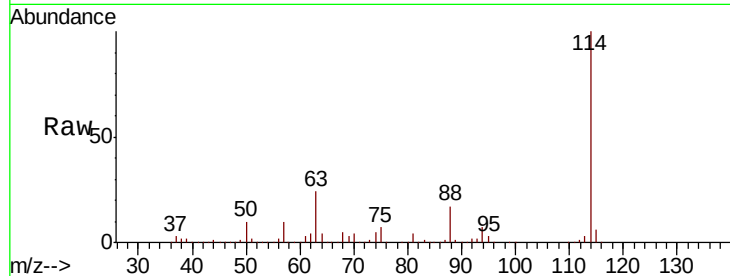




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Mar 2022 9:51

Tot Ion: 114 Resp: 1783972

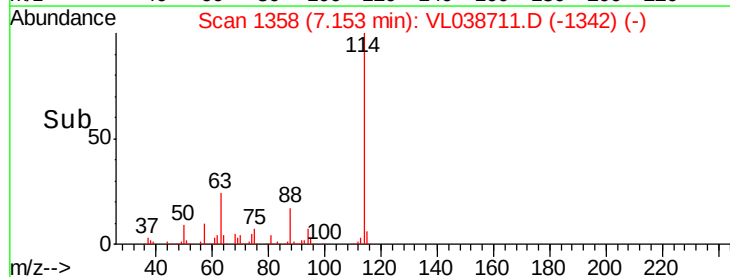
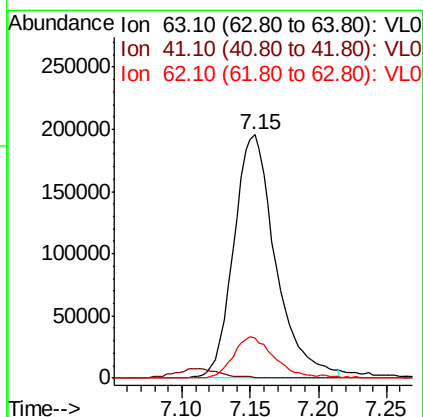
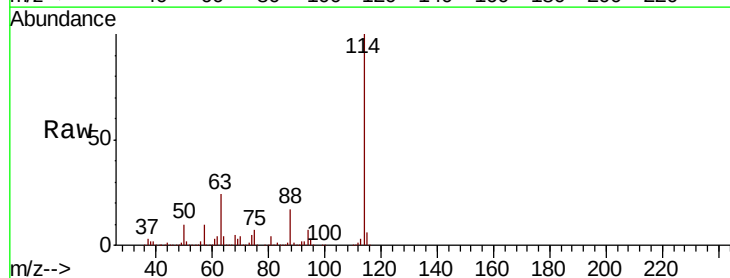
Ion	Ratio	Lower	Upper
114	100		
63	24.1	19.4	29.0
88	17.3	13.9	20.9

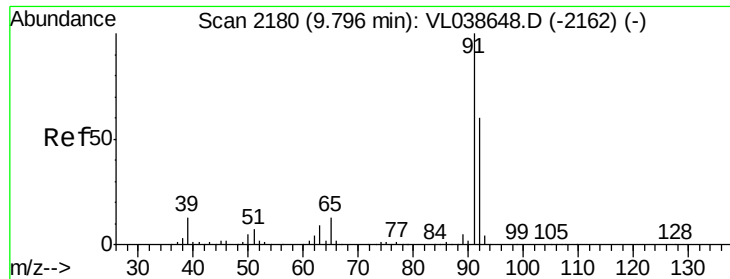


#39
 1,2-Dichloropropane
 Concen: 7.738 ppbv
 RT: 7.15 min Scan# 1358
 Delta R.T. -0.45 min
 Lab File: VL038711.D
 Acq: 23 Mar 2022 9:51

Tgt Ion: 63 Resp: 416528

Ion	Ratio	Lower	Upper
63	100		
41	0.4	49.0	73.6#
62	16.4	53.9	80.9#





#53

Toluene

Concen: 7.720 ppbv

RT: 9.78 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

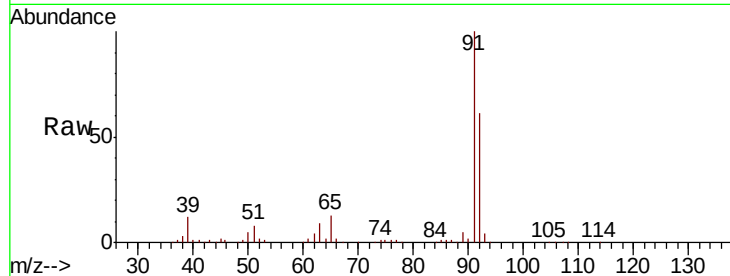
Acq: 23 Mar 2022 9:51

Tot Ion: 91 Resp: 1142149

Ion Ratio Lower Upper

91 100

92 60.6 48.7 73.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

600000

500000

400000

300000

200000

100000

0

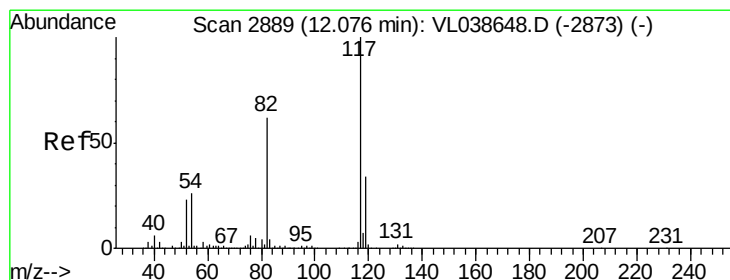
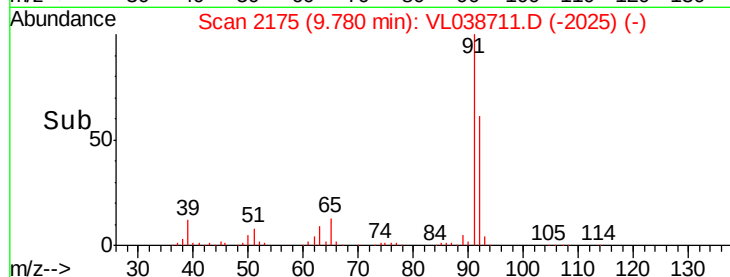
9.78

9.75

9.80

9.85

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2883

Delta R.T. -0.02 min

Lab File: VL038711.D

Acq: 23 Mar 2022 9:51

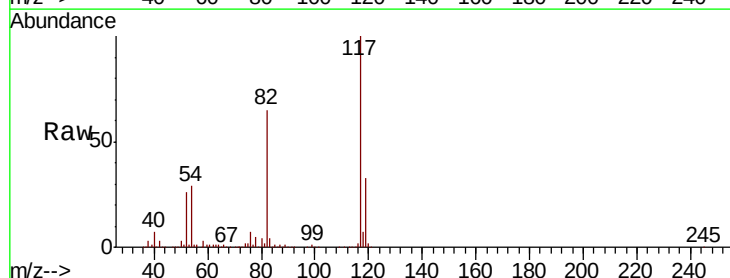
Tgt Ion: 117 Resp: 1542921

Ion Ratio Lower Upper

117 100

82 65.2 51.6 77.4

119 34.1 26.9 40.3



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

800000

600000

400000

200000

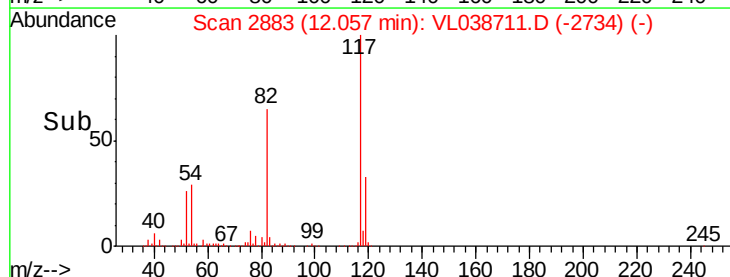
0

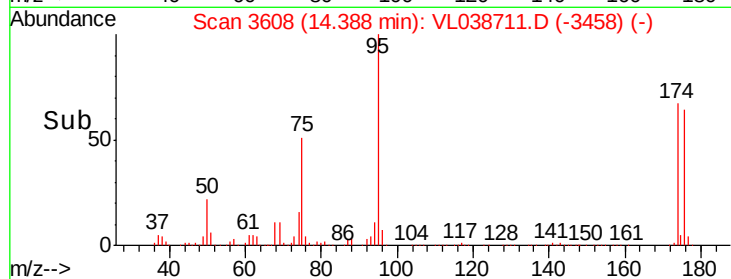
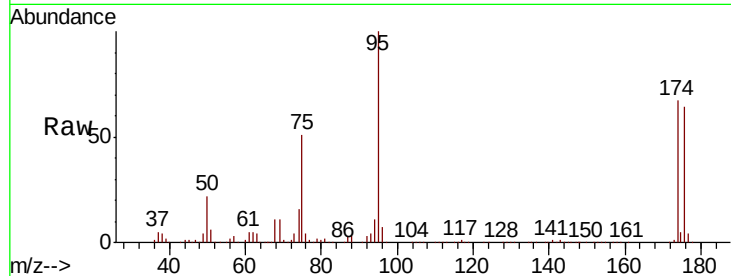
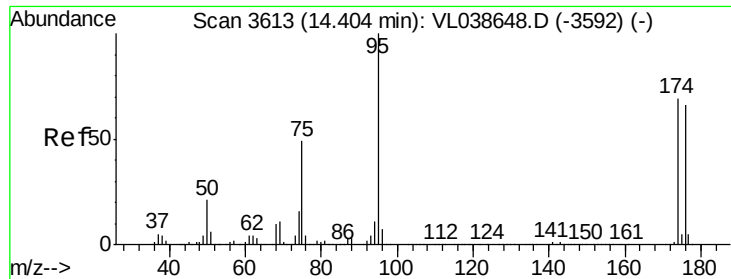
12.06

12.00

12.10

Time-->





#68

1-Bromo-4-Fluorobenzene

Concen: 9.661 ppbv

RT: 14.39

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 23 Mar 2022 9:51

Tot Ion: 95 Resp: 1142806

Ion Ratio Lower Upper

95 100

174 71.3 56.1 84.1

175 5.0 4.2 6.2

