

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060822\
 Data File : VL039236.D
 Acq On : 8 Jun 2022 15:41
 Operator : SY/AP
 Sample : N3199-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Jun 09 06:39:18 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	1366335	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3462336	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2917372	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2329589	9.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

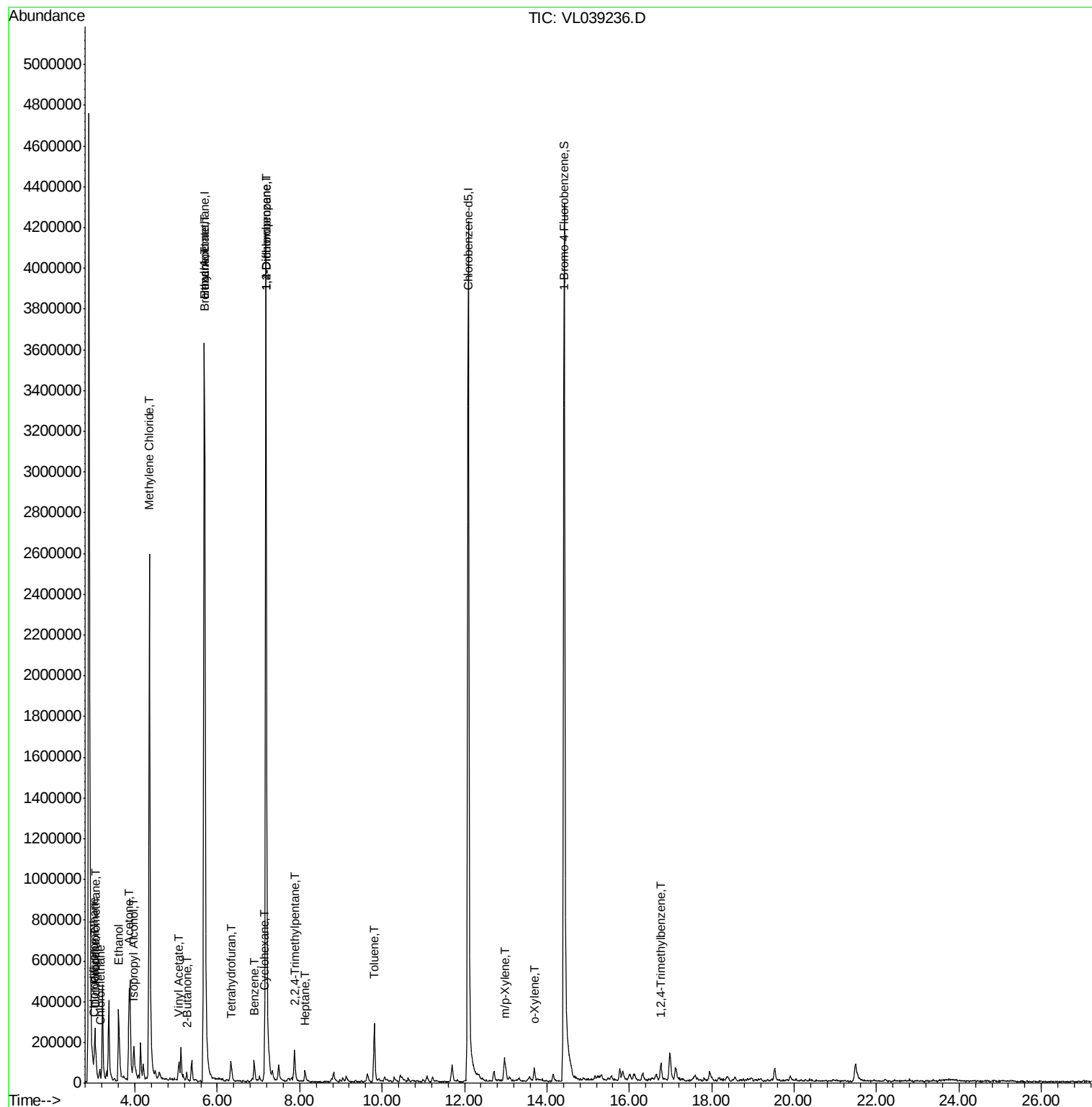
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	63750	0.266 ppbv	95
3) Chlorodifluoromethane	3.00	51	108959	0.627 ppbv #	83
4) Chloromethane	3.15	50	47396	0.531 ppbv	99
9) Propene	3.02	41	76417	1.008 ppbv	85
10) Heptane	8.13	43	24453	0.138 ppbv	96
13) Ethanol	3.60	45	453688	109.744 ppbv #	100
15) Acetone	3.85	43	668326	4.696 ppbv	95
19) Isopropyl Alcohol	3.97	45	180457	2.703 ppbv #	1
20) Methylene Chloride	4.35	84	1141885	19.038 ppbv	92
23) Vinyl Acetate	5.07	43	14792	0.126 ppbv #	1
25) Ethyl Acetate	5.69	43	821855	2.562 ppbv #	76
26) Hexane	5.69	57	1177366	8.352 ppbv #	39
30) Cyclohexane	7.14	84	4589	0.039 ppbv #	1
34) 2-Butanone	5.25	43	41865	0.223 ppbv #	83
36) Benzene	6.90	78	88991	0.317 ppbv #	90
39) 1,2-Dichloropropane	7.18	63	872940	7.808 ppbv #	24
41) Tetrahydrofuran	6.32	42	4832	0.043 ppbv #	39
44) 2,2,4-Trimethylpentane	7.87	57	85512	0.174 ppbv #	48
53) Toluene	9.81	91	202774	0.626 ppbv	99
59) m/p-Xylene	13.00	91	12680	0.036 ppbv #	33
60) o-Xylene	13.70	91	49033	0.147 ppbv	98
74) 1,2,4-Trimethylbenzene	16.76	105	18511	0.047 ppbv #	43

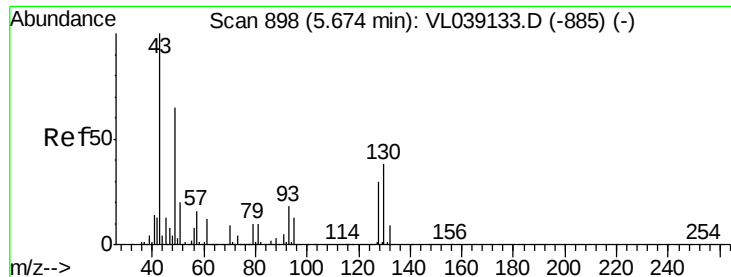
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 8 Jun 2022 15:41

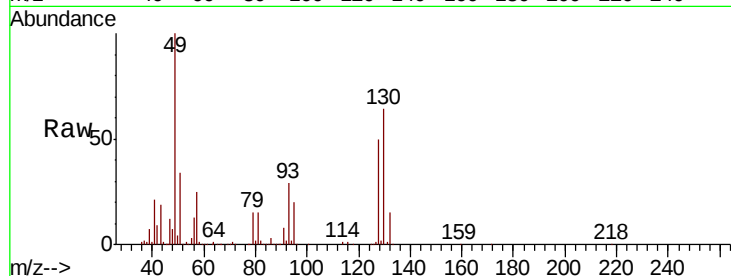
Tot Ion: 49 Resp: 1366335

Ion Ratio Lower Upper

49 100

128 51.6 24.7 74.1

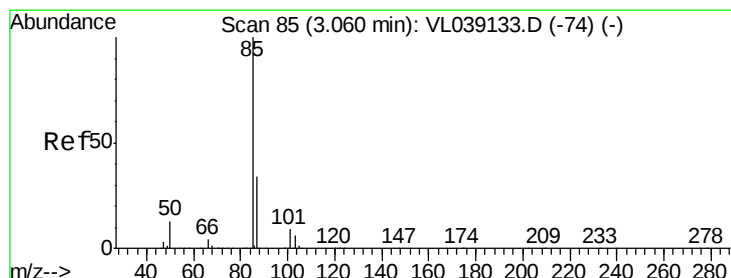
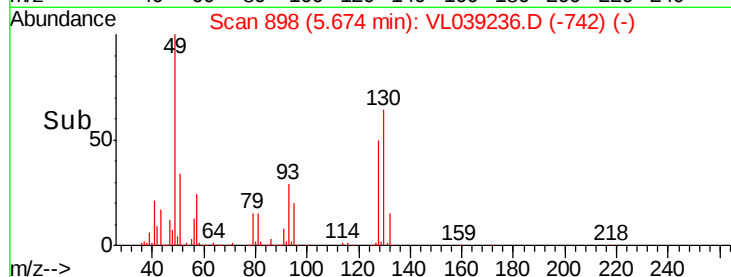
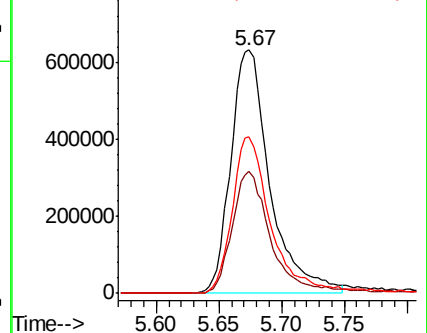
130 65.9 31.4 94.0



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



#2

Dichlorodifluoromethane

Concen: 0.266 ppbv

RT: 3.05 min Scan# 83

Delta R.T. -0.01 min

Lab File: VL039236.D

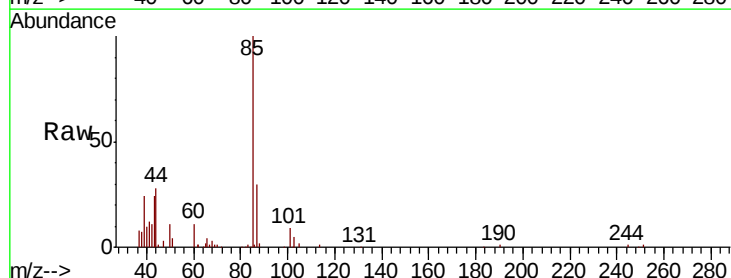
Acq: 8 Jun 2022 15:41

Tgt Ion: 85 Resp: 63750

Ion Ratio Lower Upper

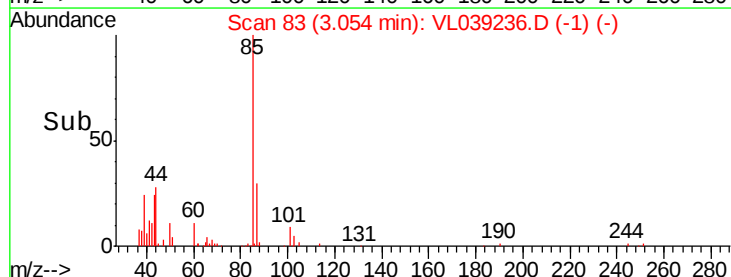
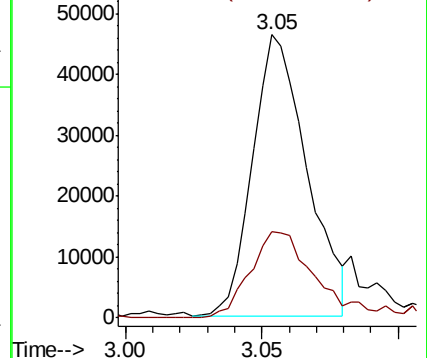
85 100

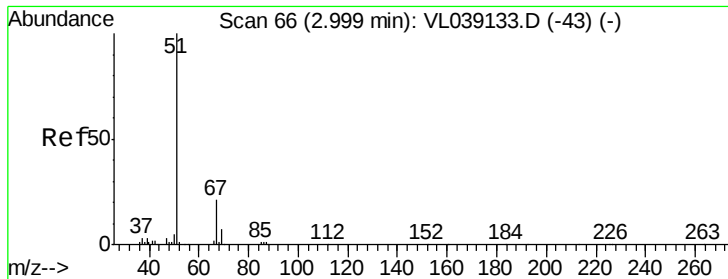
87 30.9 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

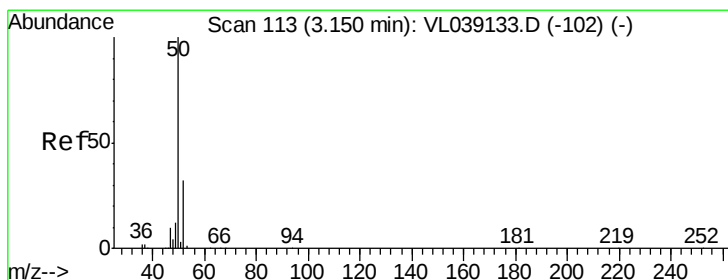
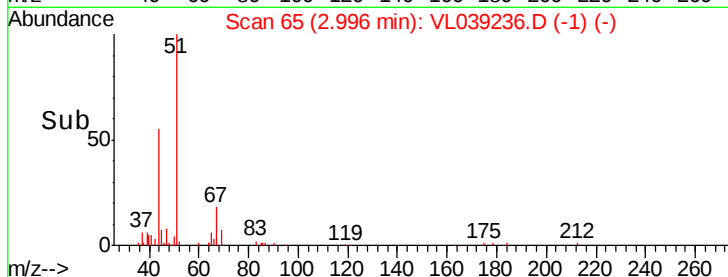
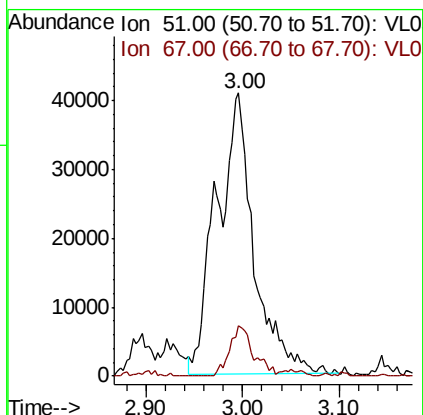
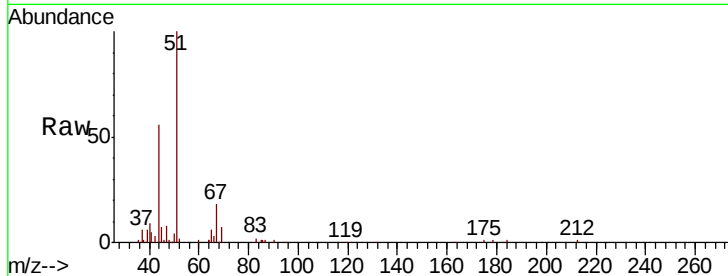
Ion 87.00 (86.70 to 87.70): VL0





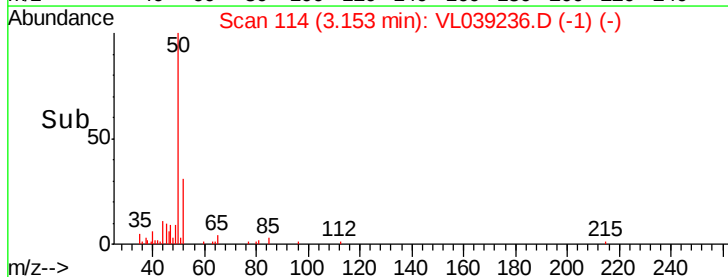
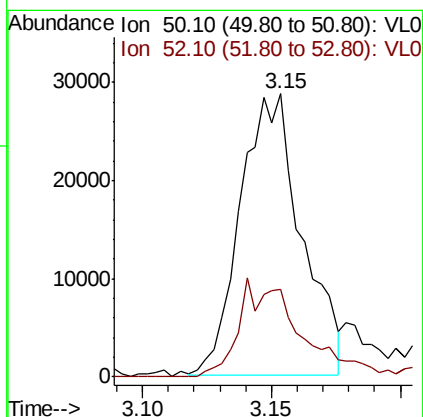
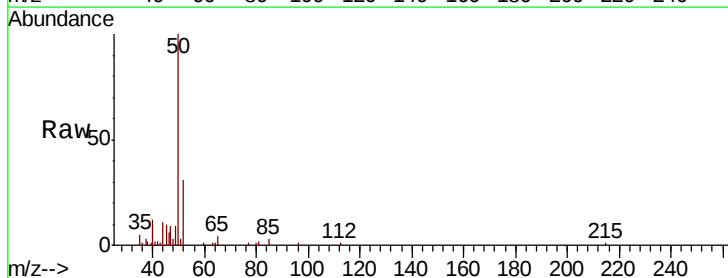
#3
 Chlorodifluoromethane
 Concen: 0.627 ppbv
 RT: 3.00
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 8 Jun 2022 15:41

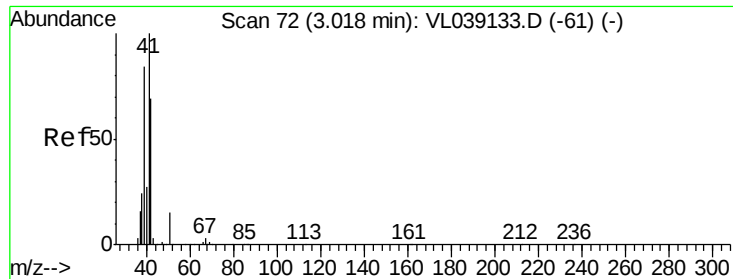
Tot Ion: 51 Resp: 108959
 Ion Ratio Lower Upper
 51 100
 67 12.6 16.2 24.4#



#4
 Chloromethane
 Concen: 0.531 ppbv
 RT: 3.15 min Scan# 114
 Delta R.T. 0.00 min
 Lab File: VL039236.D
 Acq: 8 Jun 2022 15:41

Tgt Ion: 50 Resp: 47396
 Ion Ratio Lower Upper
 50 100
 52 31.7 25.9 38.9





#9

Propene

Concen: 1.008 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

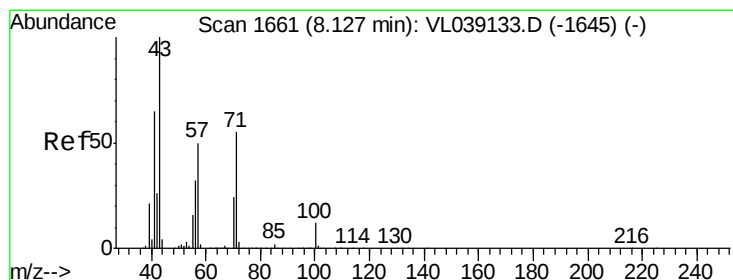
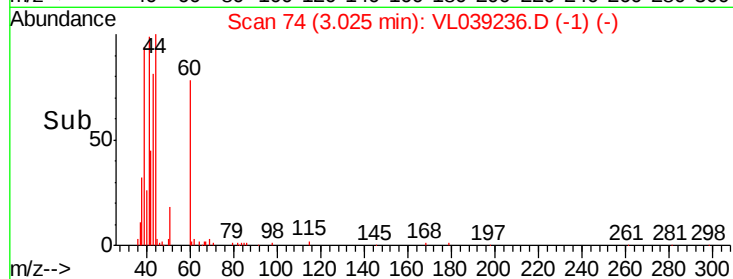
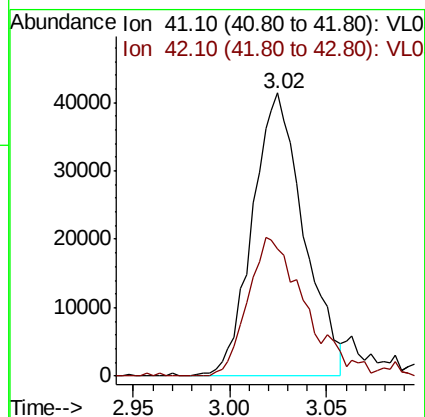
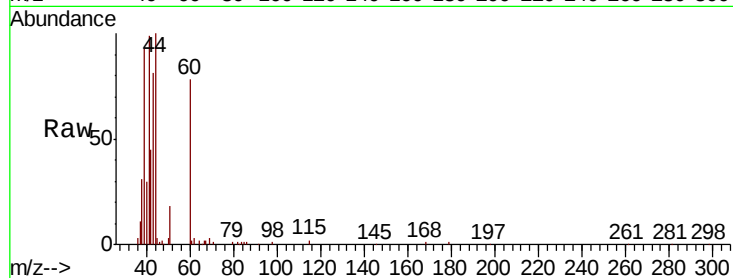
Acq: 8 Jun 2022 15:41

Tot Ion: 41 Resp: 76417

Ion Ratio Lower Upper

41 100

42 56.7 55.4 83.2



#10

Heptane

Concen: 0.138 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VL039236.D

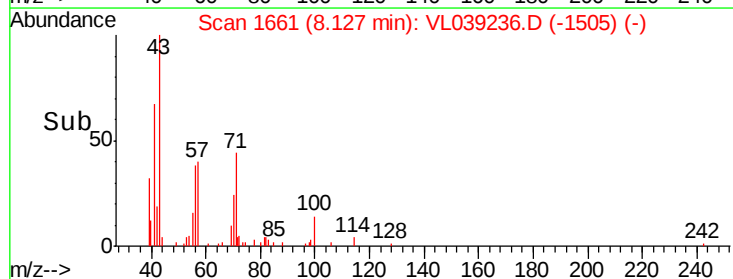
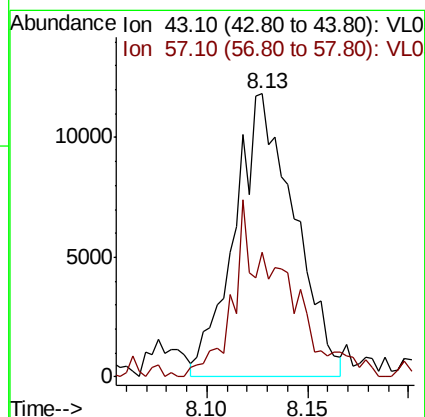
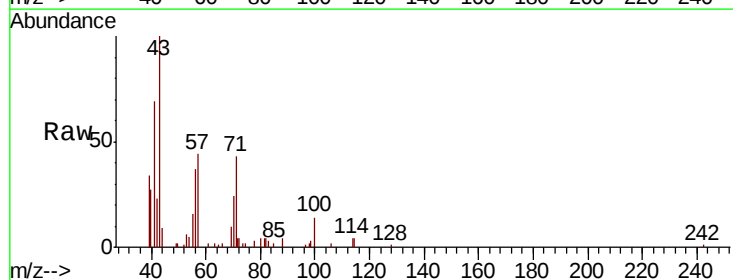
Acq: 8 Jun 2022 15:41

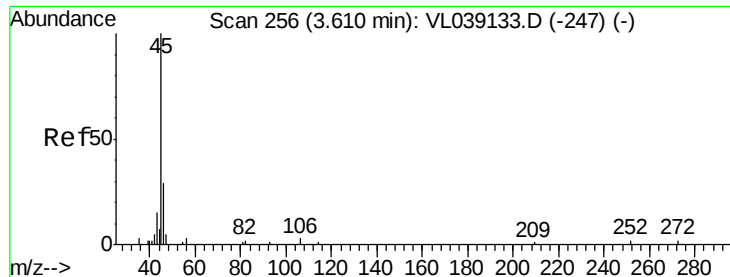
Tgt Ion: 43 Resp: 24453

Ion Ratio Lower Upper

43 100

57 54.4 41.4 62.2





#13

Ethanol

Concen: 109.744 ppbv

RT: 3.60 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

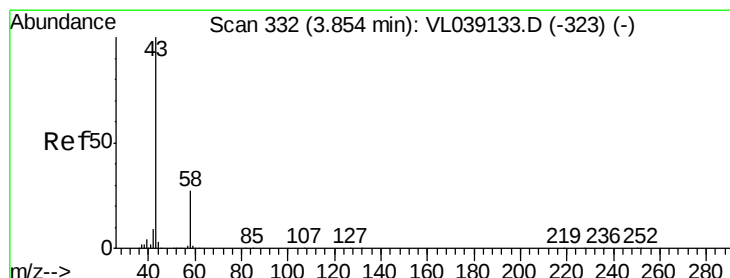
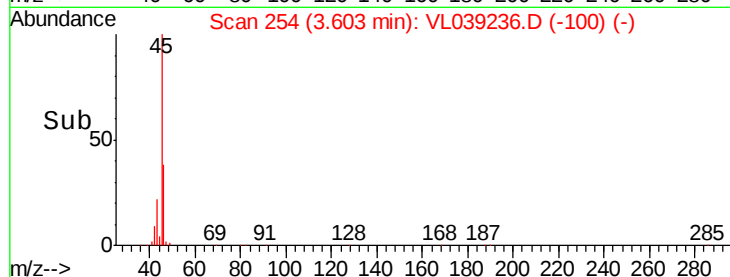
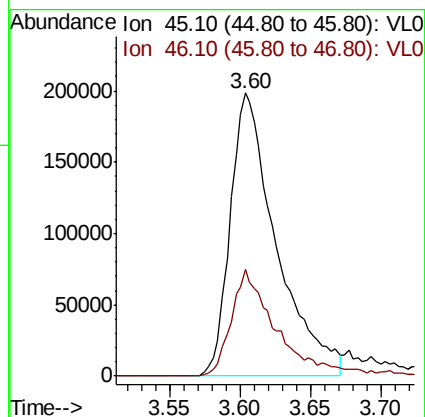
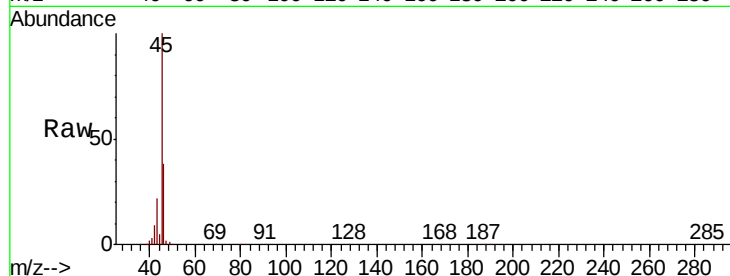
Acq: 8 Jun 2022 15:41

Tot Ion: 45 Resp: 453688

Ion Ratio Lower Upper

45 100

46 36.7 0.0 0.0#



#15

Acetone

Concen: 4.696 ppbv

RT: 3.85 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL039236.D

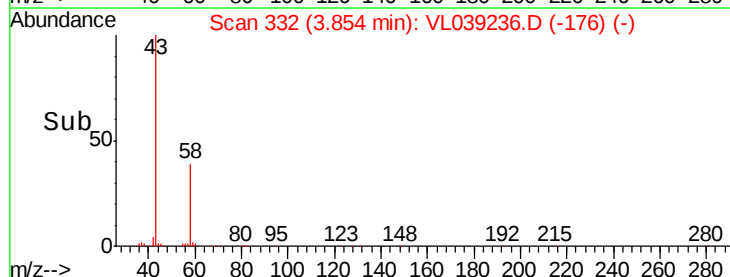
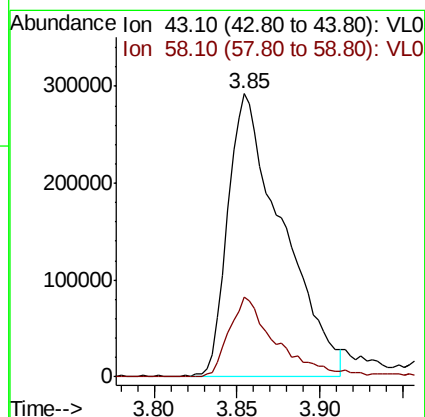
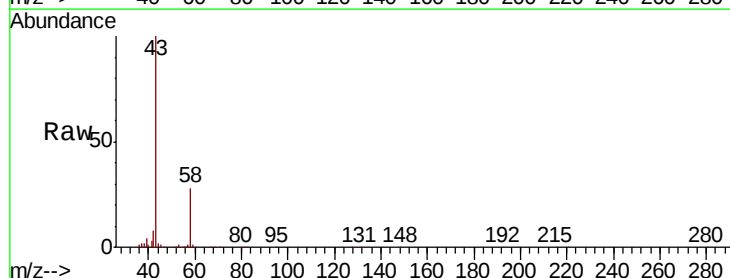
Acq: 8 Jun 2022 15:41

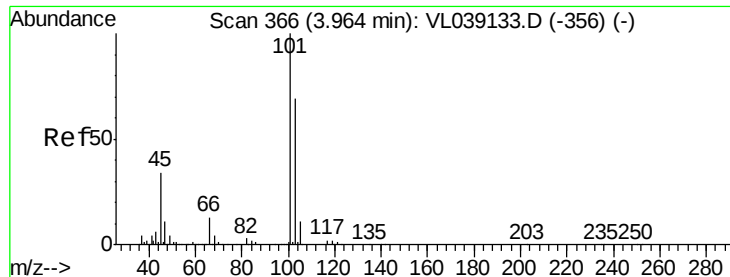
Tgt Ion: 43 Resp: 668326

Ion Ratio Lower Upper

43 100

58 25.3 22.5 33.7





#19

Isopropyl Alcohol

Concen: 2.703 ppbv

RT: 3.97

Delta R.T. MSVOA.L

Lab File: ClientSampleId :

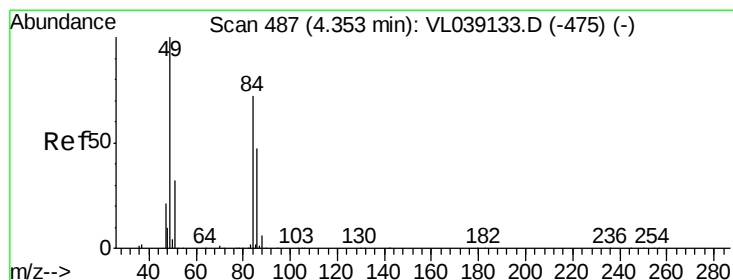
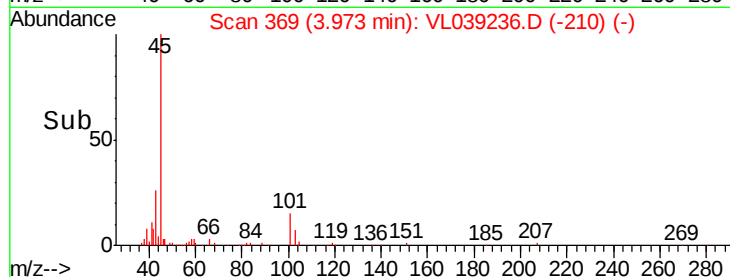
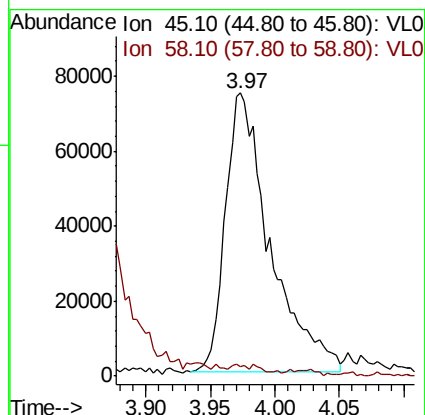
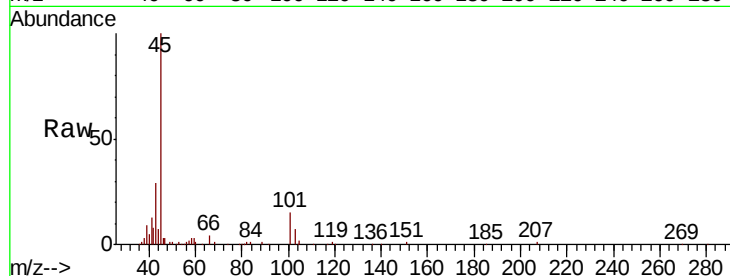
Acq: 8 Jun 2022 15:41

Tot Ion: 45 Resp: 180457

Ion Ratio Lower Upper

45 100

58 96.6 1.8 2.8#



#20

Methylene Chloride

Concen: 19.038 ppbv

RT: 4.35 min Scan# 486

Delta R.T. -0.00 min

Lab File: VL039236.D

Acq: 8 Jun 2022 15:41

Tgt Ion: 84 Resp: 1141885

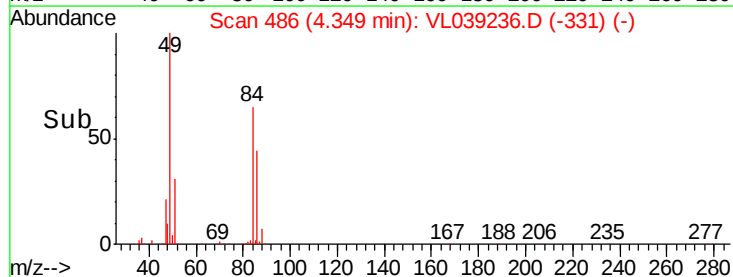
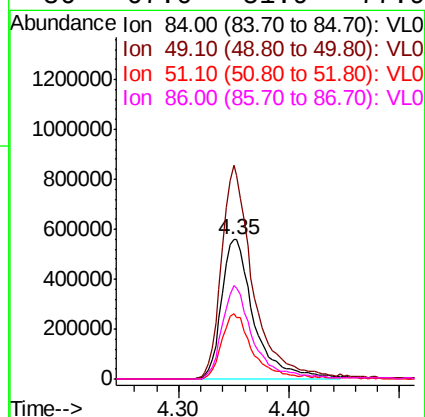
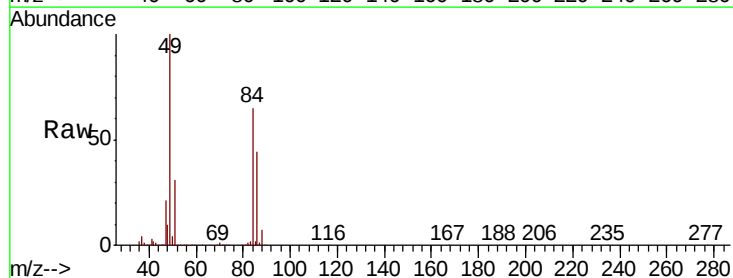
Ion Ratio Lower Upper

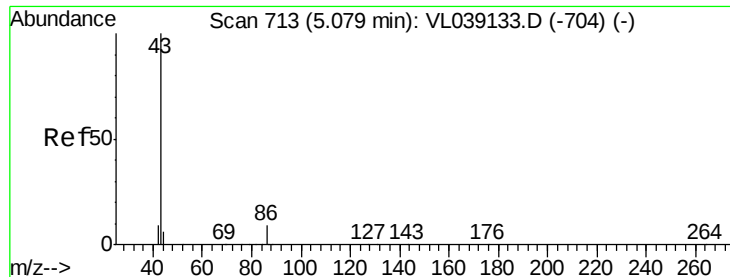
84 100

49 153.0 111.1 166.7

51 46.8 35.3 52.9

86 67.0 51.9 77.9





#23

Vinyl Acetate

Concen: 0.126 ppbv

RT: 5.07 Instrument: MSVOA_1

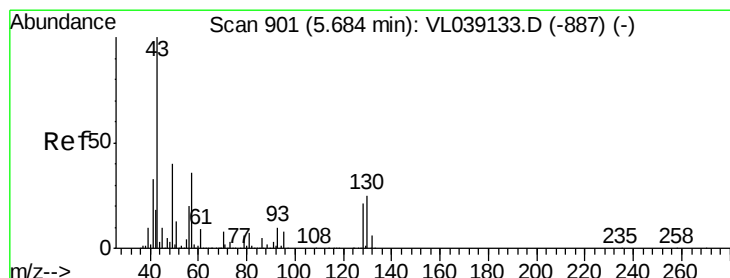
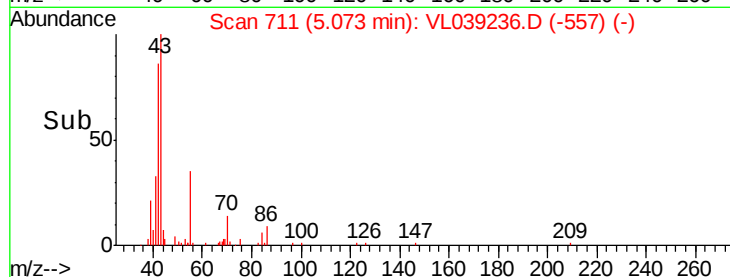
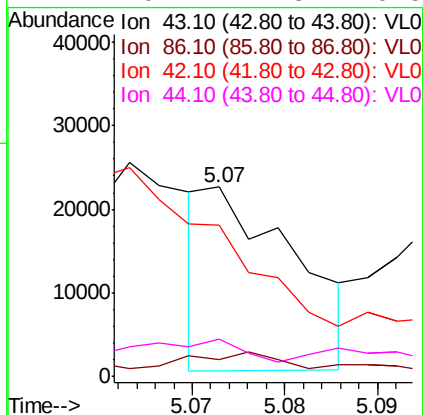
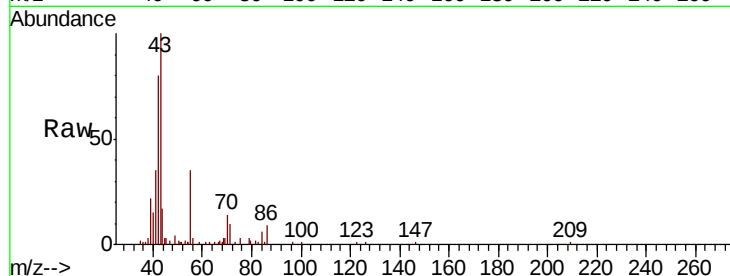
Delta R.T.

Lab File: ClientSampleId:

Acq: 8 Jun 2022 15:41

Tot Ion: 43 Resp: 14792

Ion	Ratio	Lower	Upper
43	100		
86	4.9	6.0	9.0#
42	104.4	8.2	12.4#
44	9.4	4.3	6.5#



#25

Ethyl Acetate

Concen: 2.562 ppbv

RT: 5.69 min Scan# 903

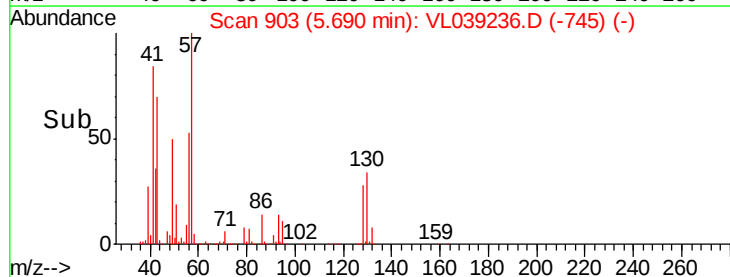
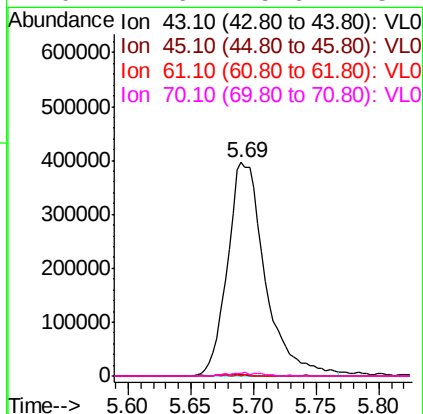
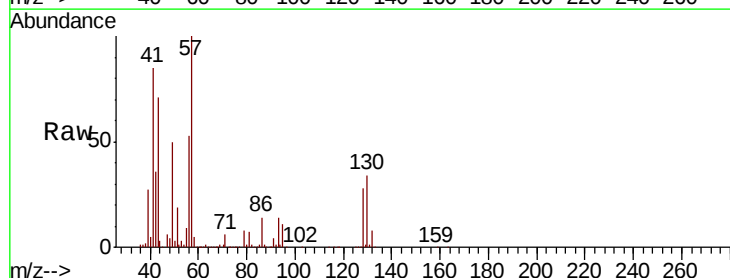
Delta R.T. 0.01 min

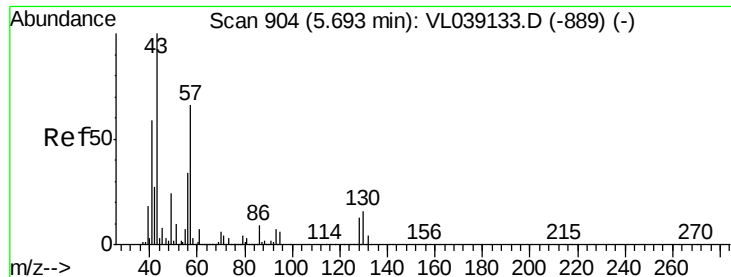
Lab File: VL039236.D

Acq: 8 Jun 2022 15:41

Tgt Ion: 43 Resp: 821855

Ion	Ratio	Lower	Upper
43	100		
45	0.7	8.2	12.2#
61	0.4	8.4	12.6#
70	1.6	5.6	8.4#

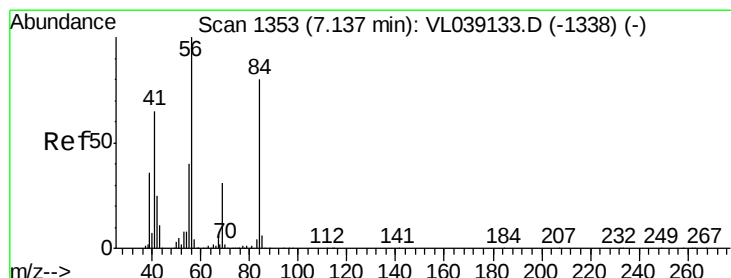
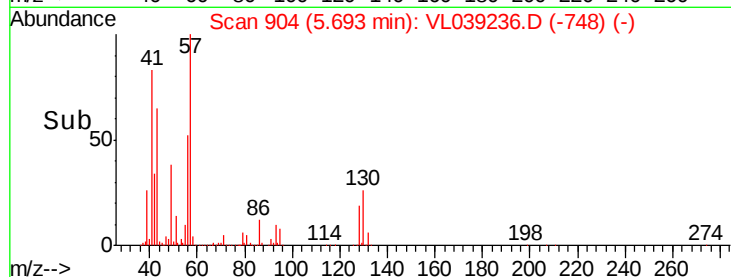
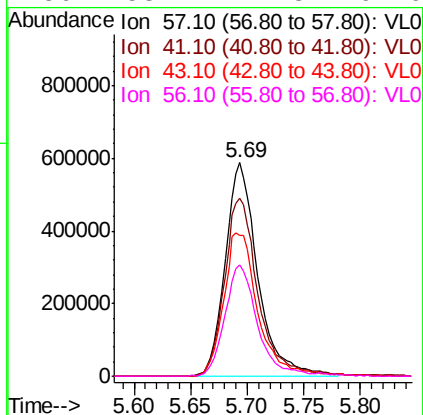
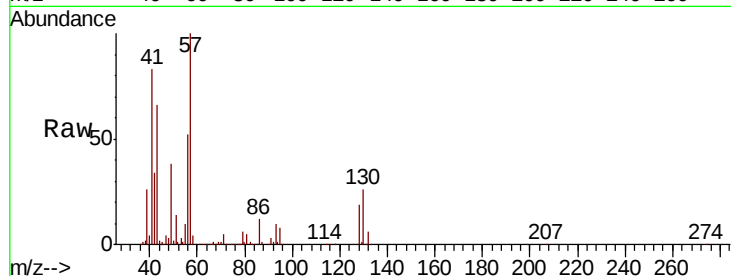




#26
Hexane
Concen: 8.352 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 8 Jun 2022 15:41

Tot Ion: 57 Resp: 1177366

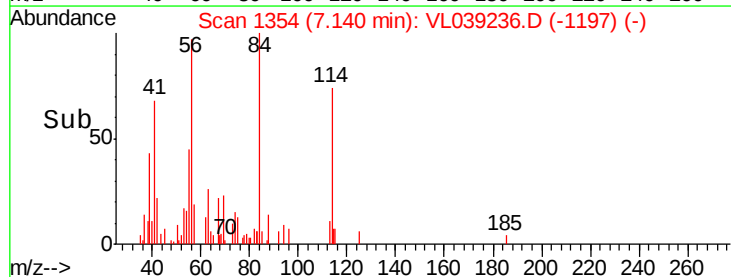
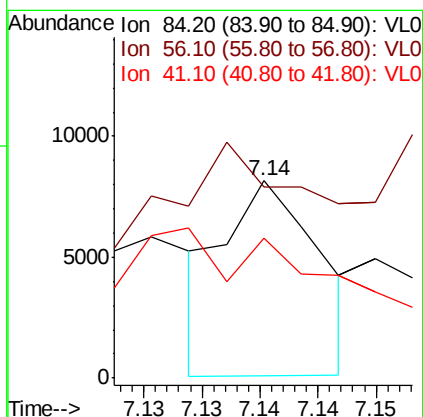
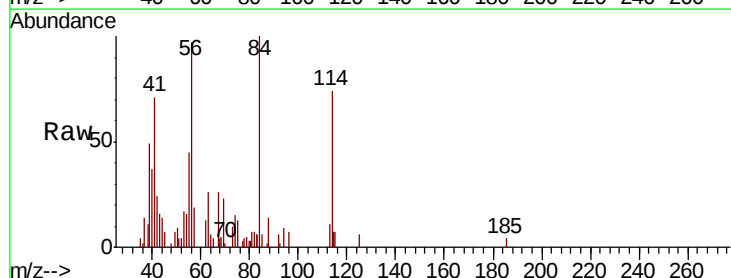
Ion	Ratio	Lower	Upper
57	100		
41	86.8	72.4	108.6
43	71.5	187.0	280.6#
56	53.2	41.8	62.6

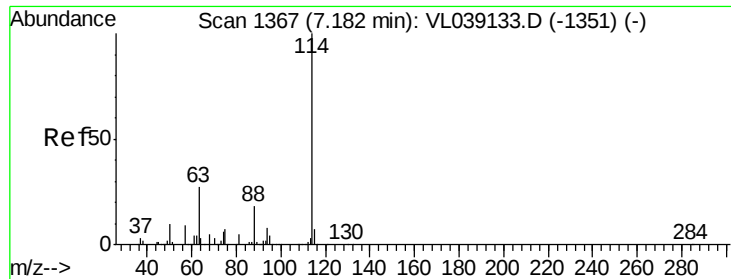


#30
Cyclohexane
Concen: 0.039 ppbv
RT: 7.14 min Scan# 1354
Delta R.T. 0.00 min
Lab File: VL039236.D
Acq: 8 Jun 2022 15:41

Tgt Ion: 84 Resp: 4589

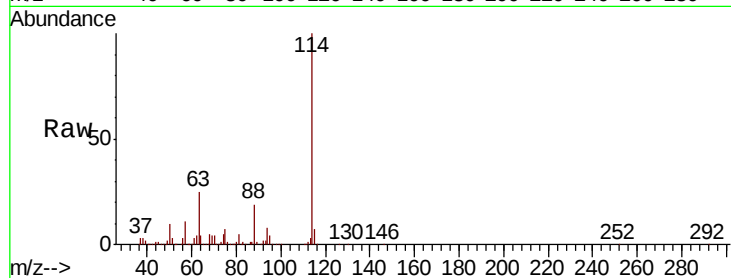
Ion	Ratio	Lower	Upper
84	100		
56	0.0	110.6	165.8#
41	0.0	68.9	103.3#



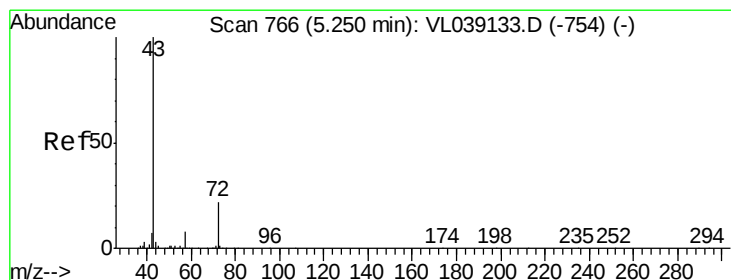
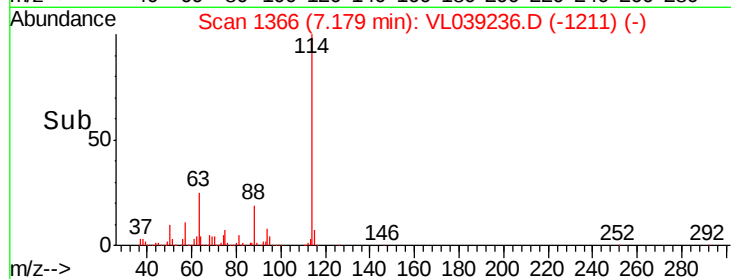
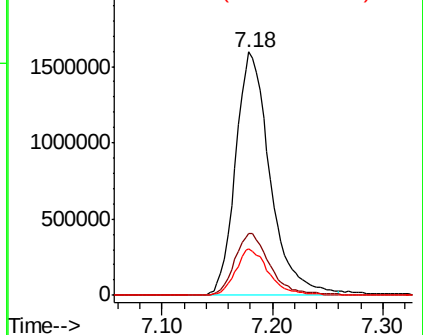


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 8 Jun 2022 15:41

Tot Ion:114 Resp: 3462336
 Ion Ratio Lower Upper
 114 100
 63 26.1 21.7 32.5
 88 18.7 14.8 22.2

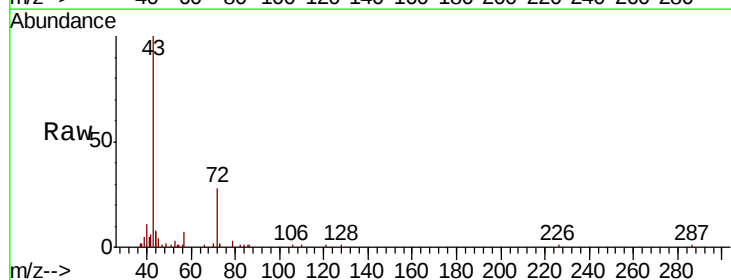


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

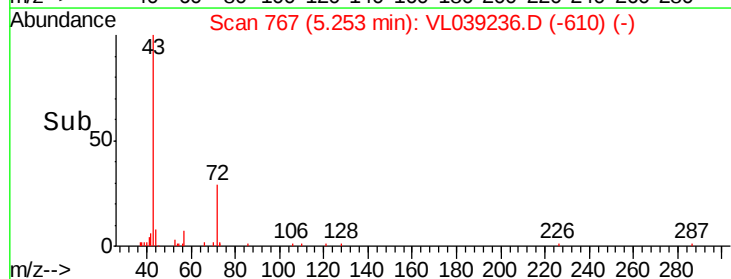
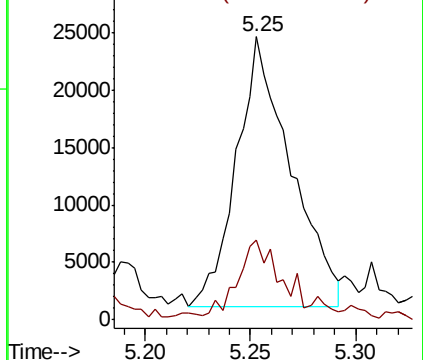


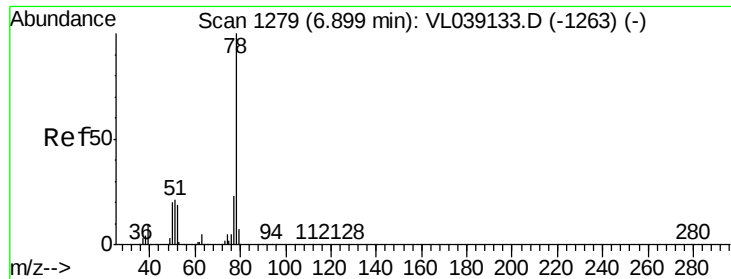
#34
 2-Butanone
 Concen: 0.223 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.00 min
 Lab File: VL039236.D
 Acq: 8 Jun 2022 15:41

Tgt Ion: 43 Resp: 41865
 Ion Ratio Lower Upper
 43 100
 72 30.9 18.2 27.2#



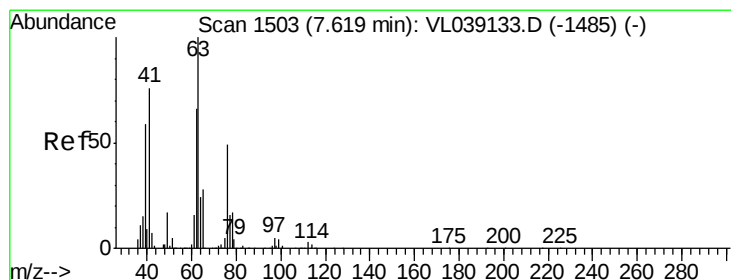
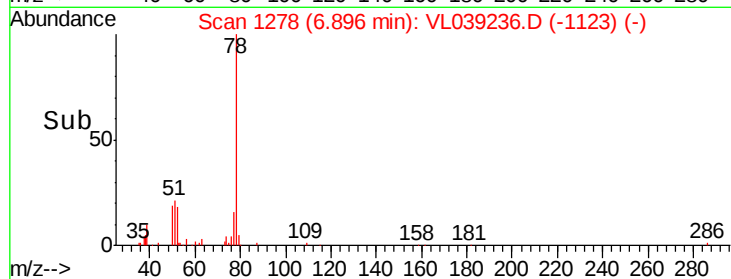
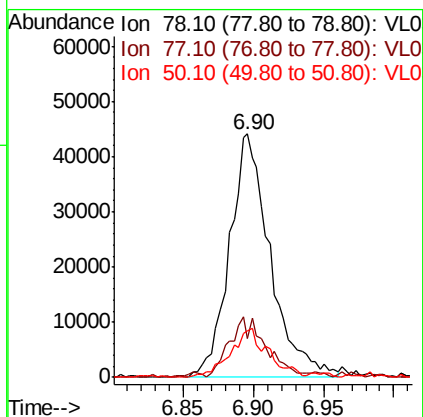
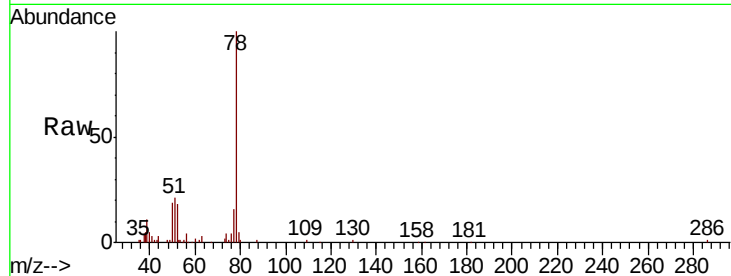
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





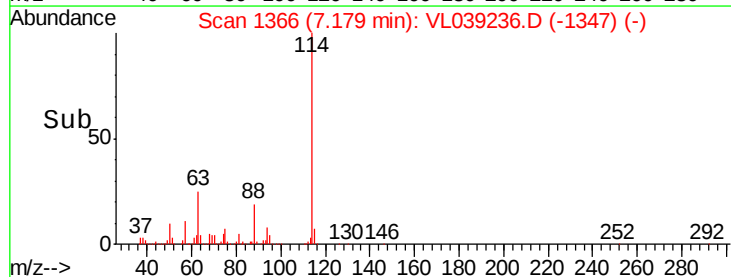
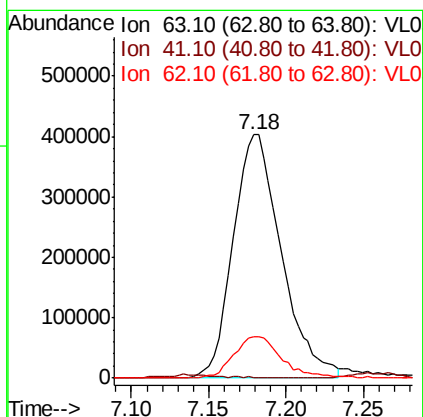
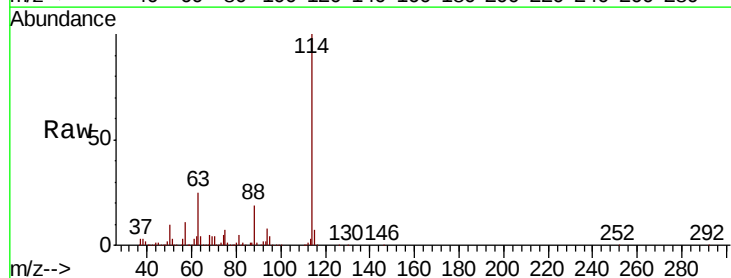
#36
Benzene
Concen: 0.317 ppbv
RT: 6.90
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 8 Jun 2022 15:41

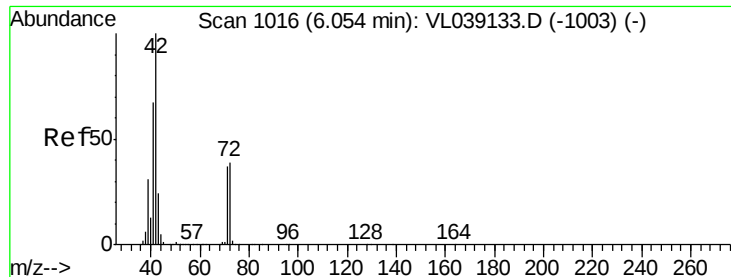
Tot Ion	Ratio	Lower	Upper
78	100		
77	15.0	18.6	27.8#
50	19.2	15.8	23.8



#39
1,2-Dichloropropane
Concen: 7.808 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.44 min
Lab File: VL039236.D
Acq: 8 Jun 2022 15:41

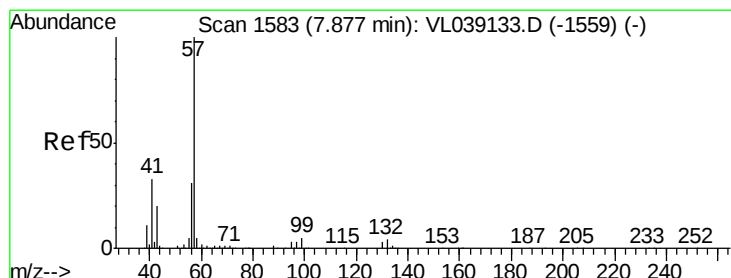
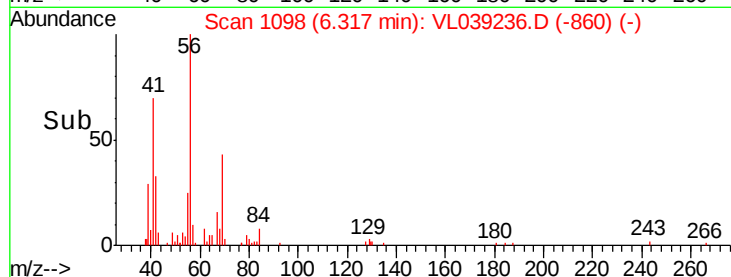
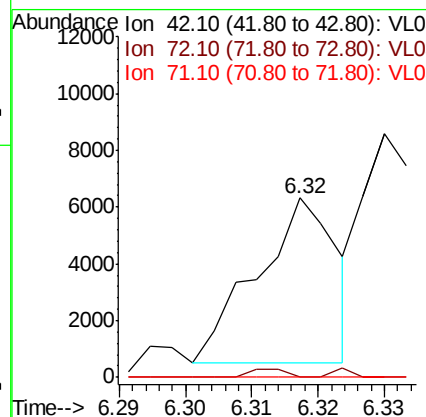
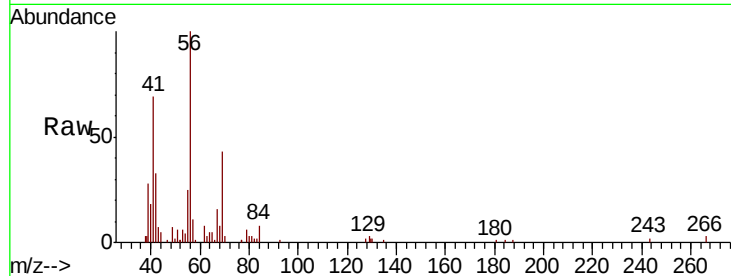
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	60.8	91.2#
62	17.2	52.9	79.3#





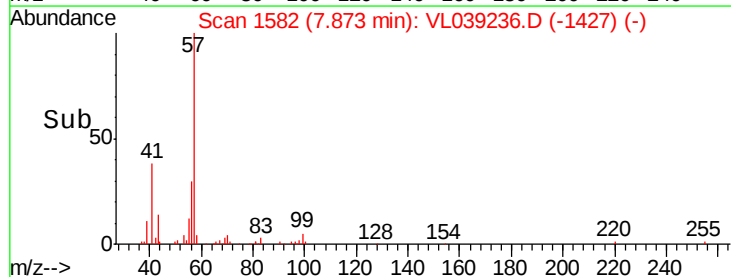
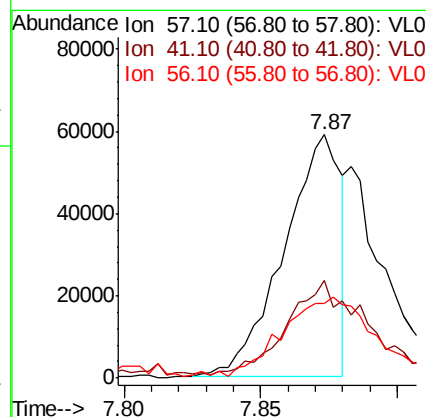
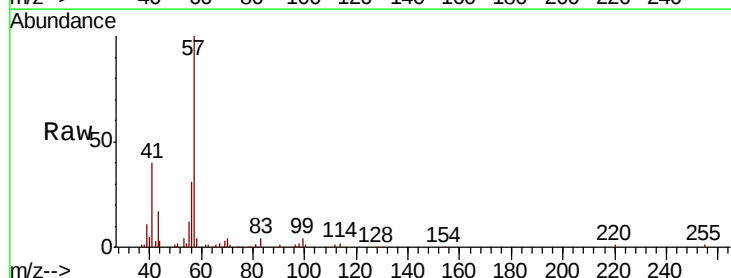
#41
Tetrahydrofuran
Concen: 0.043 ppbv
RT: 6.32
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 8 Jun 2022 15:41

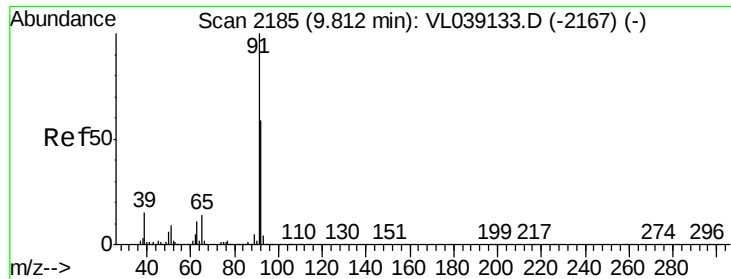
Tot Ion	42	Resp	4832
Ion	Ratio	Lower	Upper
42	100		
72	3.8	32.0	48.0#
71	0.0	31.1	46.7#



#44
2,2,4-Trimethylpentane
Concen: 0.174 ppbv
RT: 7.87 min Scan# 1582
Delta R.T. -0.00 min
Lab File: VL039236.D
Acq: 8 Jun 2022 15:41

Tgt Ion	57	Resp	85512
Ion	Ratio	Lower	Upper
57	100		
41	63.0	26.2	39.4#
56	58.7	24.7	37.1#





#53

Toluene

Concen: 0.626 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

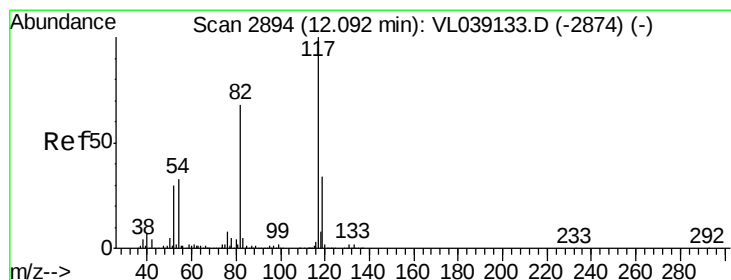
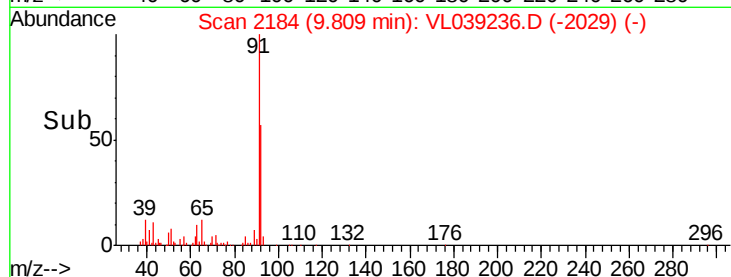
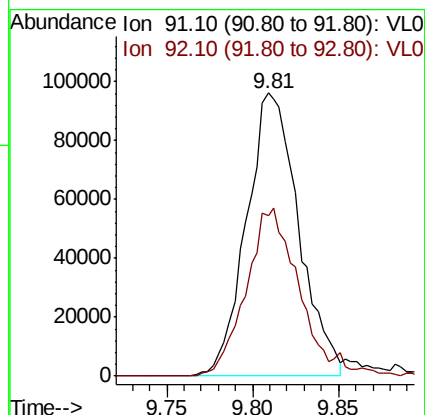
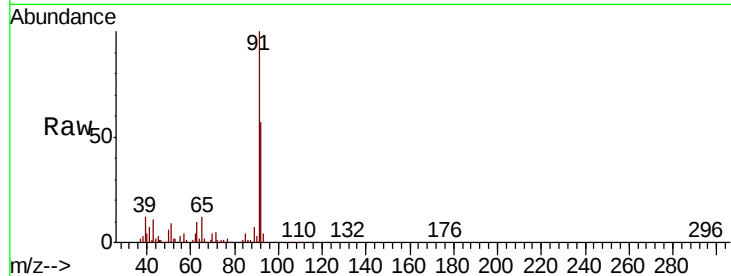
Acq: 8 Jun 2022 15:41

Tot Ion: 91 Resp: 202774

Ion Ratio Lower Upper

91 100

92 60.7 48.1 72.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2894

Delta R.T. 0.00 min

Lab File: VL039236.D

Acq: 8 Jun 2022 15:41

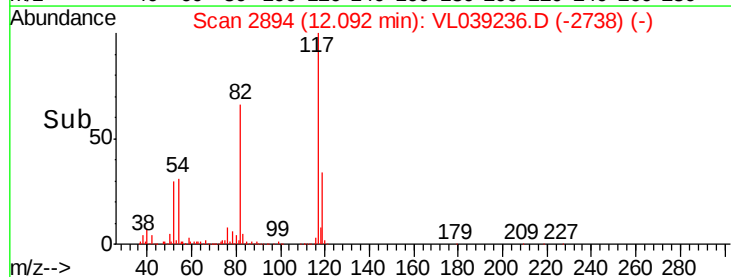
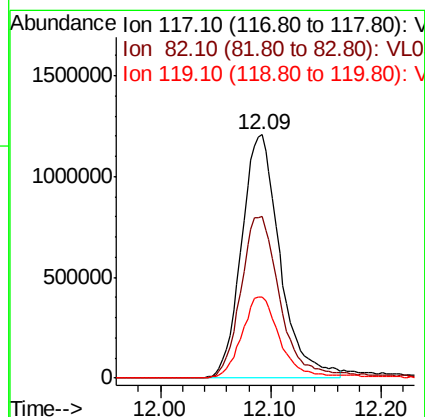
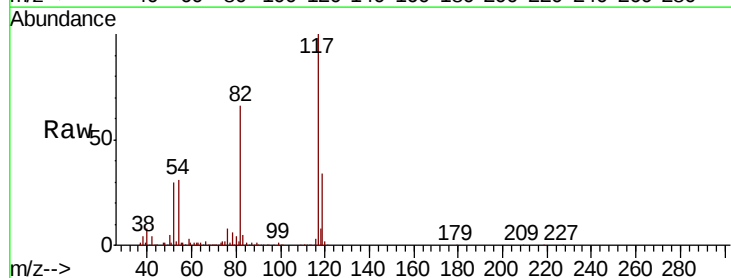
Tgt Ion: 117 Resp: 2917372

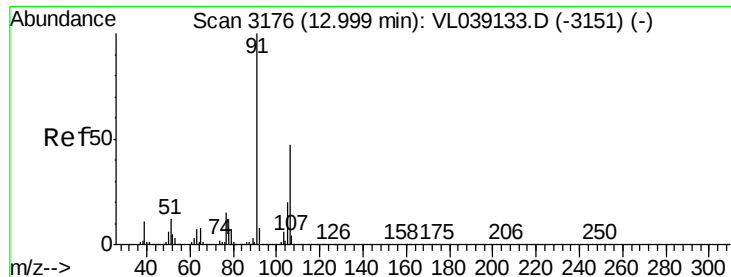
Ion Ratio Lower Upper

117 100

82 69.7 55.1 82.7

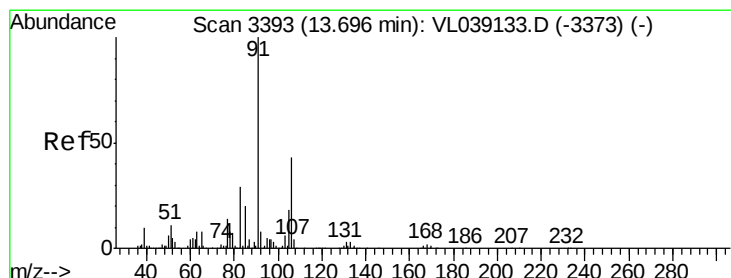
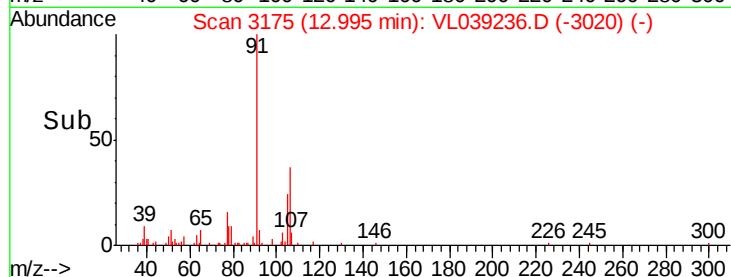
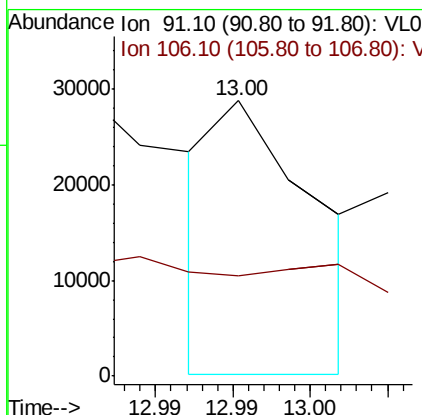
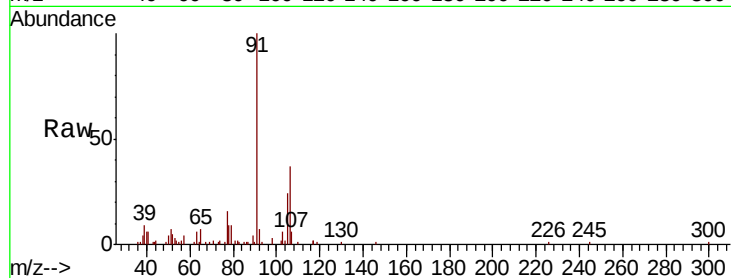
119 33.9 24.7 37.1





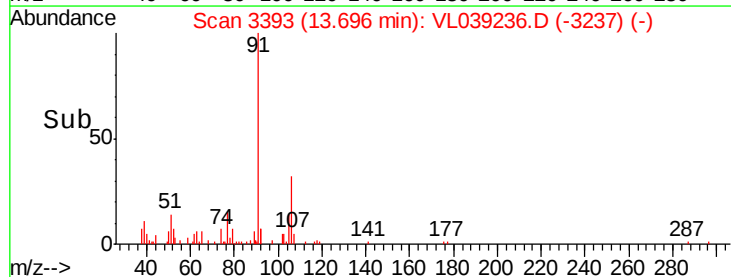
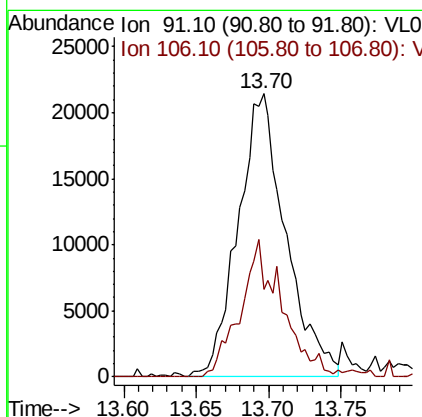
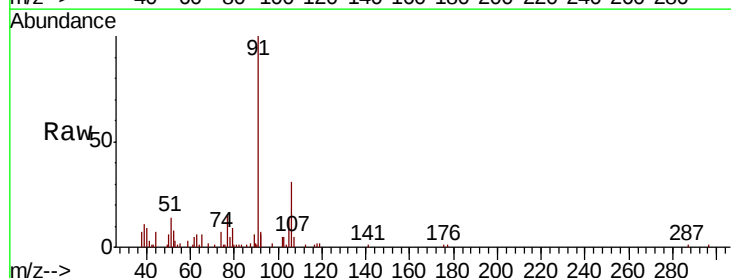
#59
m/p-Xylene
Concen: 0.036 ppbv
RT: 13.00
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 8 Jun 2022 15:41

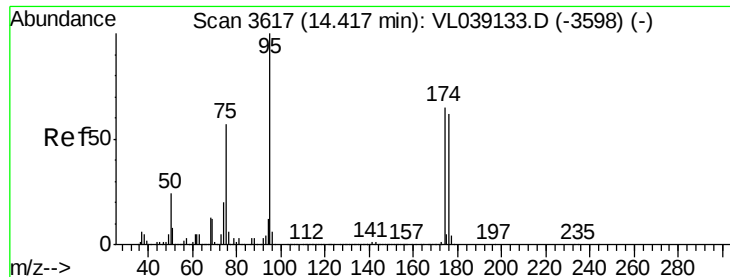
Tot Ion: 91 Resp: 12680
Ion Ratio Lower Upper
91 100
106 0.0 34.3 51.5#



#60
o-Xylene
Concen: 0.147 ppbv
RT: 13.70 min Scan# 3393
Delta R.T. -0.00 min
Lab File: VL039236.D
Acq: 8 Jun 2022 15:41

Tgt Ion: 91 Resp: 49033
Ion Ratio Lower Upper
91 100
106 43.1 22.3 66.9





#68

1-Bromo-4-Fluorobenzene

Concen: 9.659 ppbv

RT: 14.42

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 8 Jun 2022 15:41

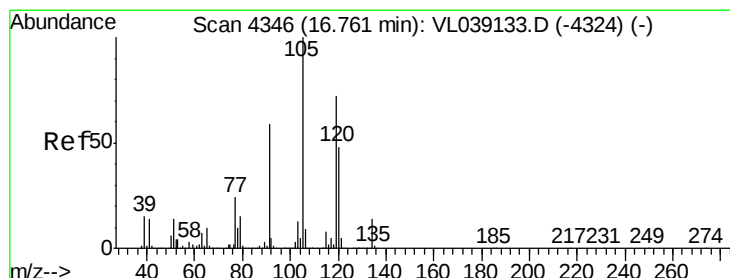
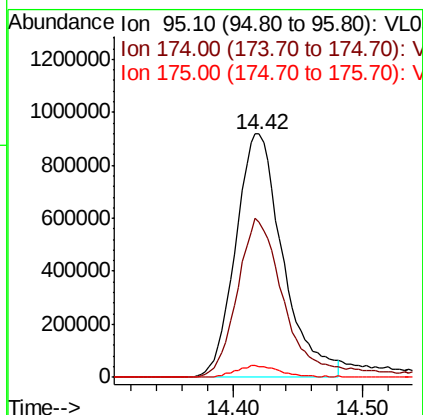
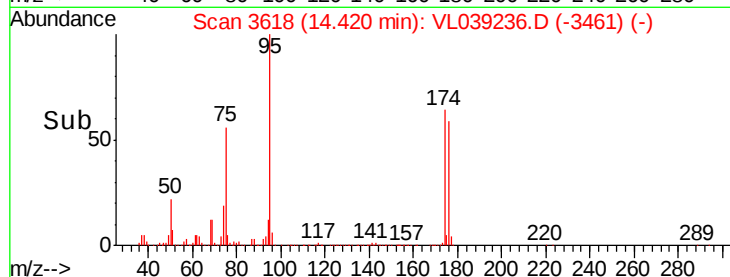
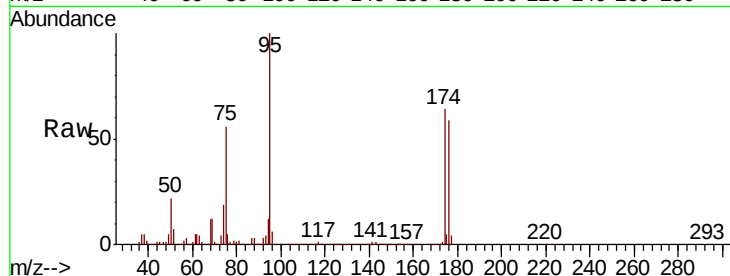
Tot Ion: 95 Resp: 2329589

Ion Ratio Lower Upper

95 100

174 69.4 53.8 80.8

175 4.8 4.1 6.1



#74

1,2,4-Trimethylbenzene

Concen: 0.047 ppbv

RT: 16.76 min Scan# 4347

Delta R.T. 0.00 min

Lab File: VL039236.D

Acq: 8 Jun 2022 15:41

Tgt Ion: 105 Resp: 18511

Ion Ratio Lower Upper

105 100

120 0.0 38.1 57.1#

91 19.0 47.4 71.0#

77 4.9 19.5 29.3#

