

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041422\
 Data File : VL038930.D
 Acq On : 14 Apr 2022 23:25
 Operator : SY/AP
 Sample : N2259-04
 Misc : 400mL/MSVOA L
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 15 08:09:02 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Apr 06 06:12:53 2022
 QLast Update : Wed Apr 06 06:12:53 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1219953	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3009538	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2636717	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2181406	10.91	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	94236	0.545	ppbv	98
3) Chlorodifluoromethane	2.97	51	1930232	12.965	ppbv #	62
4) Chloromethane	3.14	50	38513	0.500	ppbv	93
9) Propene	3.21	41	157776	2.003	ppbv	88
10) Heptane	8.12	43	3762424	18.962	ppbv	98
11) Trichlorofluoromethane	3.95	101	186426	1.341	ppbv	96
13) Ethanol	3.61	45	897841	187.555	ppbv #	100
15) Acetone	3.85	43	27874327	229.499	ppbv #	67
16) 1,3-Butadiene	3.31	39	19608	0.282	ppbv #	71
17) tert-Butyl alcohol	4.12	59	13536	0.124	ppbv #	1
19) Isopropyl Alcohol	3.97	45	351004	5.654	ppbv #	100
20) Methylene Chloride	4.35	84	367116	8.334	ppbv	98
21) Allyl Chloride	4.37	41	11408	0.125	ppbv #	1
23) Vinyl Acetate	5.07	43	34417	0.291	ppbv #	1
25) Ethyl Acetate	5.68	43	550603	1.787	ppbv	97
26) Hexane	5.69	57	311762	2.222	ppbv #	82
30) Cyclohexane	7.13	84	121183	0.980	ppbv #	66
31) cis-1,2-Dichloroethene	5.68	61	41306	0.320	ppbv #	27
34) 2-Butanone	5.25	43	247834	2.084	ppbv #	91
36) Benzene	6.89	78	290333	1.060	ppbv	99
39) 1,2-Dichloropropane	7.18	63	753194	7.193	ppbv #	26
41) Tetrahydrofuran	6.05	42	4469	0.040	ppbv #	37
42) Bromodichloromethane	7.79	83	81848	0.414	ppbv #	26
44) 2,2,4-Trimethylpentane	7.87	57	149714	0.323	ppbv #	1
50) 4-Methyl-2-Pentanone	8.74	43	1081775	4.044	ppbv	99
51) 2-Hexanone	10.11	43	42907	0.213	ppbv #	45
53) Toluene	9.81	91	17380569	54.993	ppbv	87
58) Ethyl Benzene	12.71	91	965836	2.451	ppbv	93
59) m/p-Xylene	12.96	91	2480374	7.493	ppbv	100
60) o-Xylene	13.69	91	988313	3.191	ppbv	95
61) Styrene	13.53	104	13692	0.073	ppbv #	1
62) Isopropylbenzene	14.66	105	133111	0.286	ppbv	95
64) n-propylbenzene	15.56	120	109156	0.904	ppbv	75
65) tert-Butylbenzene	16.76	119	184555	0.447	ppbv #	62
66) Benzyl Chloride	17.20	91	22376	0.266	ppbv #	69
67) sec-Butylbenzene	17.28	105	139780	0.241	ppbv	96
69) p-Isopropyltoluene	17.53	119	134915	0.284	ppbv	97
70) n-Butylbenzene	18.55	91	293441	0.613	ppbv #	57
71) 2-Chlorotoluene	15.56	91	553896	1.584	ppbv #	43
72) 4-Ethyltoluene	15.83	105	573428	1.550	ppbv	98
73) 1,3,5-Trimethylbenzene	15.99	105	490748	1.477	ppbv	97

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Quant Time: Apr 15 08:09:02 2022
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Apr 06 06:12:53 2022
QLast Update : Wed Apr 06 06:12:53 2022
Response via : Initial Calibration

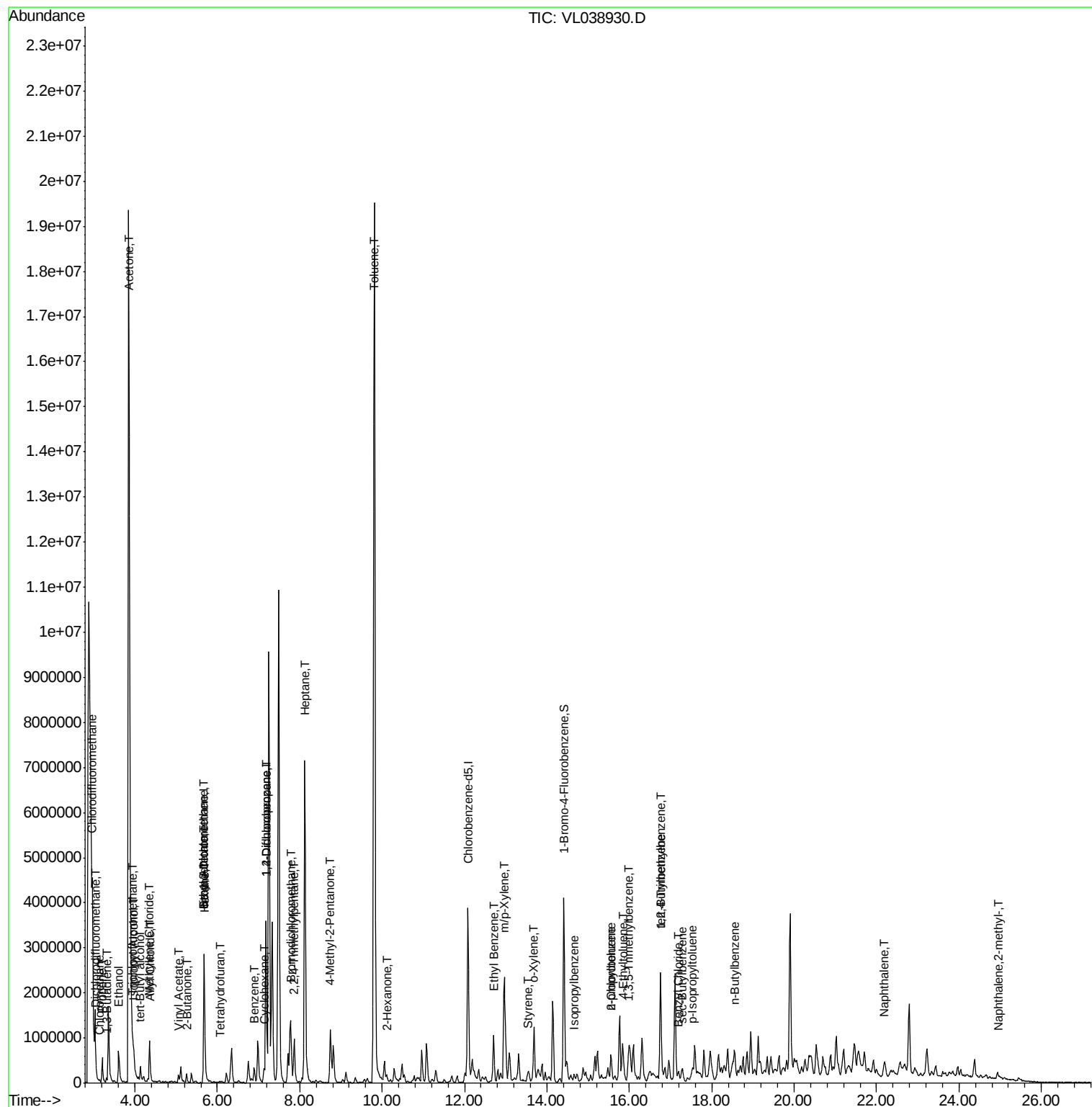
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 1,2,4-Trimethylbenzene	16.76	105	1746142	4.971	ppbv #	71
79) Naphthalene	22.18	128	76559	0.291	ppbv	99
80) Naphthalene,2-methyl-	24.97	142	33088	0.511	ppbv #	64

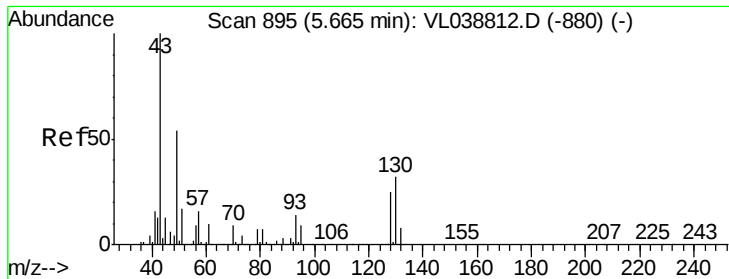
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Apr 2022 23:25

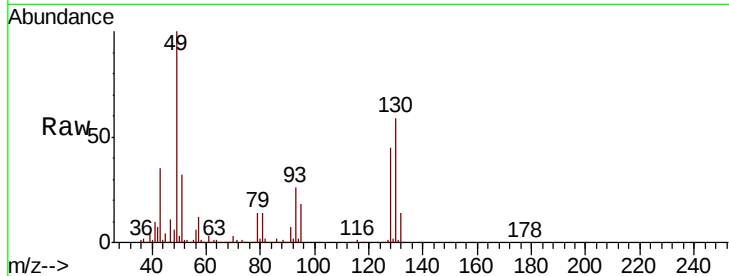
Tot Ion: 49 Resp: 1219953

Ion Ratio Lower Upper

49 100

128 46.6 24.1 72.3

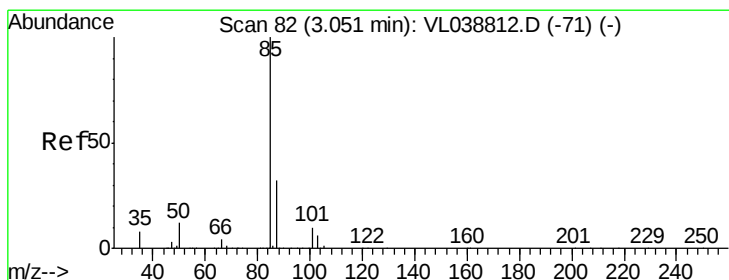
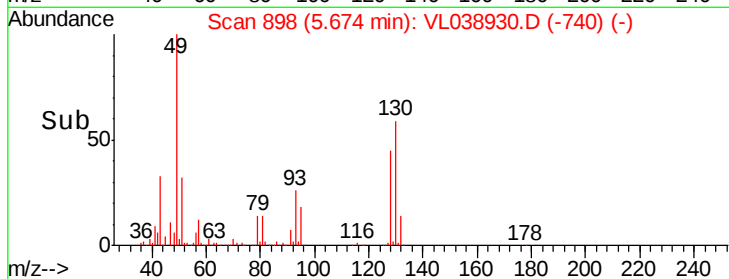
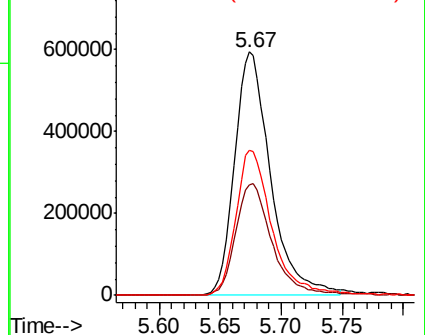
130 60.3 30.9 92.8



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: 0.545 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL038930.D

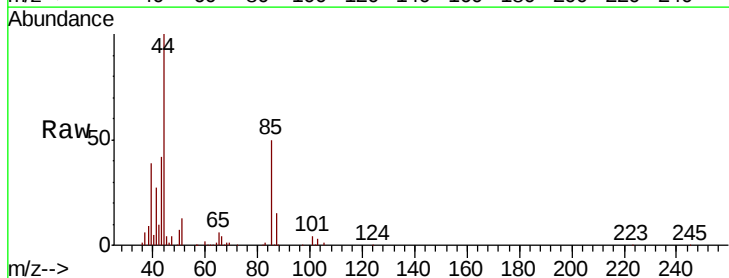
Acq: 14 Apr 2022 23:25

Tgt Ion: 85 Resp: 94236

Ion Ratio Lower Upper

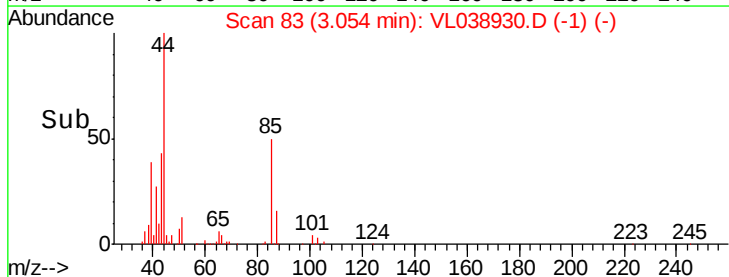
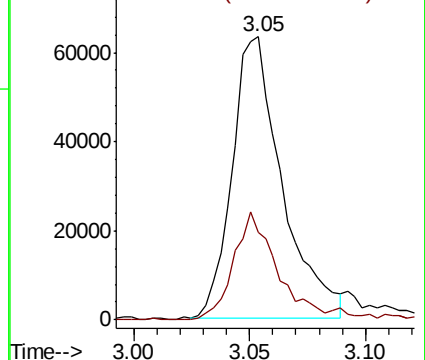
85 100

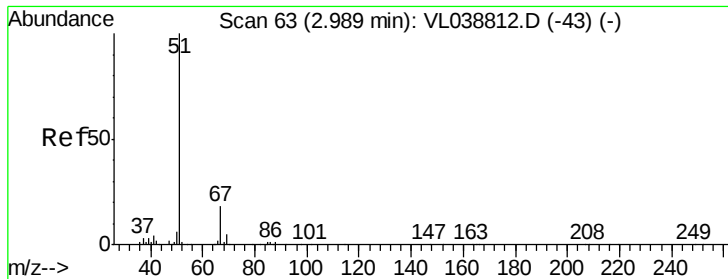
87 31.3 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 12.965 ppbv

RT: 2.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

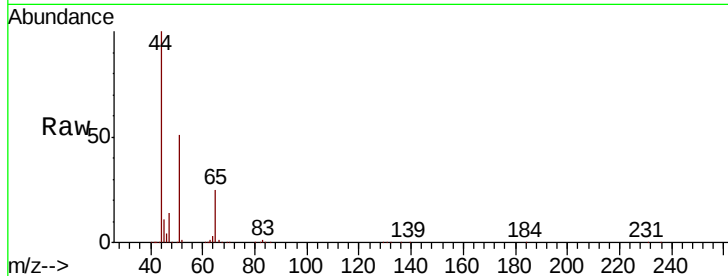
Acq: 14 Apr 2022 23:25

Tot Ion: 51 Resp: 1930232

Ion Ratio Lower Upper

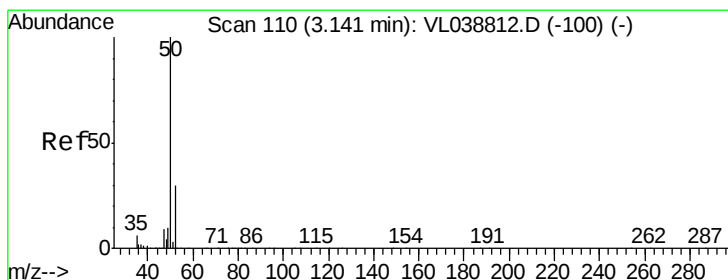
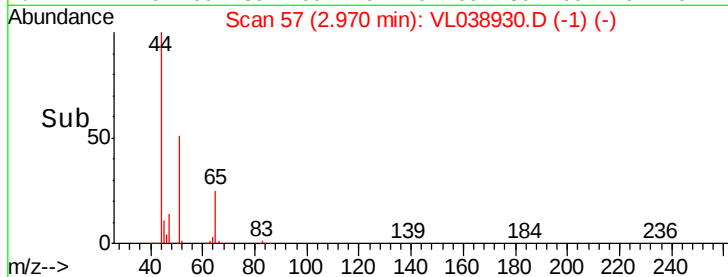
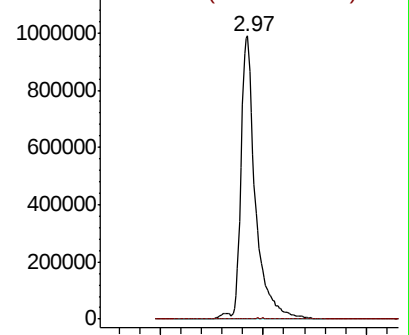
51 100

67 0.4 13.4 20.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.500 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL038930.D

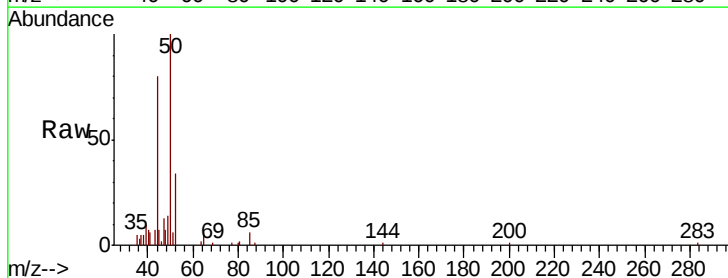
Acq: 14 Apr 2022 23:25

Tgt Ion: 50 Resp: 38513

Ion Ratio Lower Upper

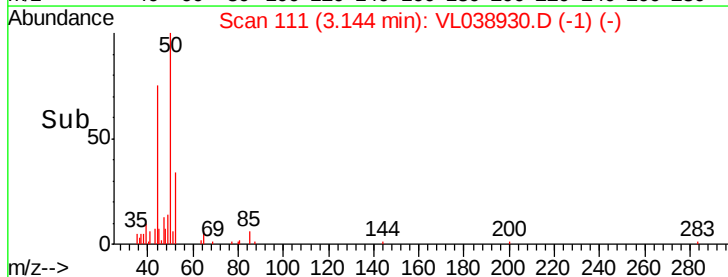
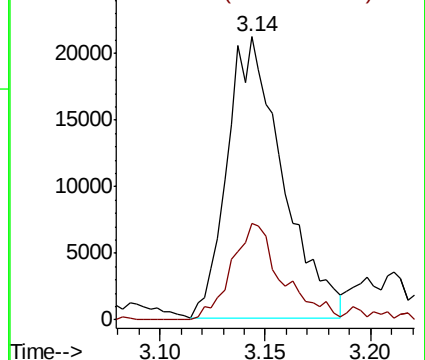
50 100

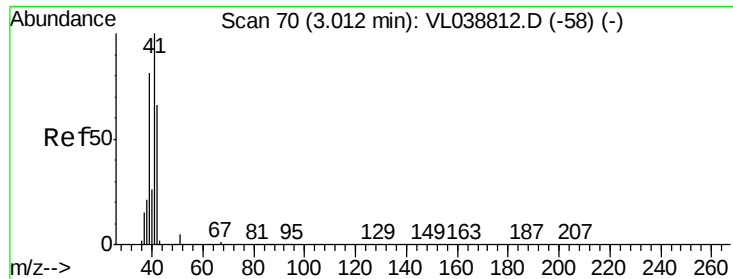
52 34.3 24.3 36.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 2.003 ppbv

RT: 3.21 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

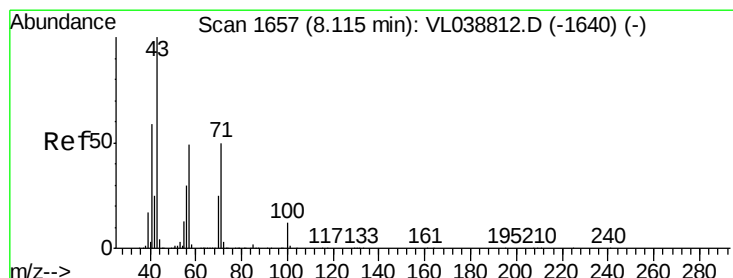
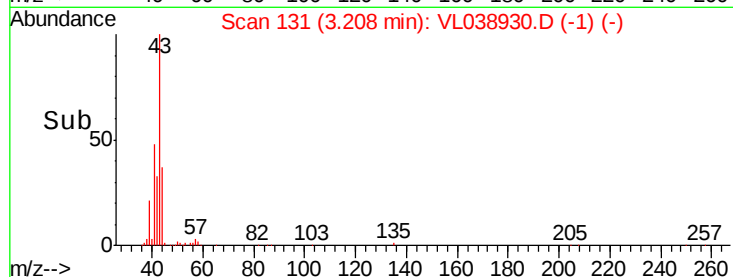
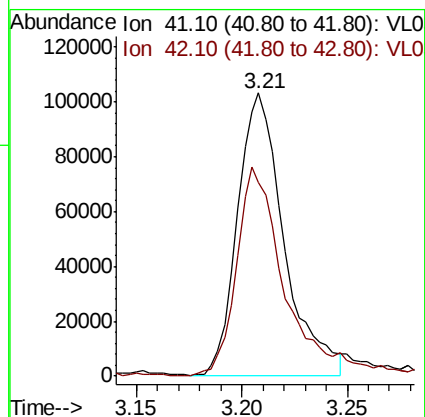
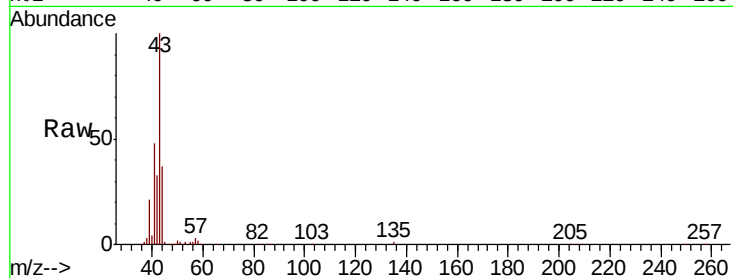
Acq: 14 Apr 2022 23:25

Tot Ion: 41 Resp: 157776

Ion Ratio Lower Upper

41 100

42 77.9 54.2 81.4



#10

Heptane

Concen: 18.962 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. 0.01 min

Lab File: VL038930.D

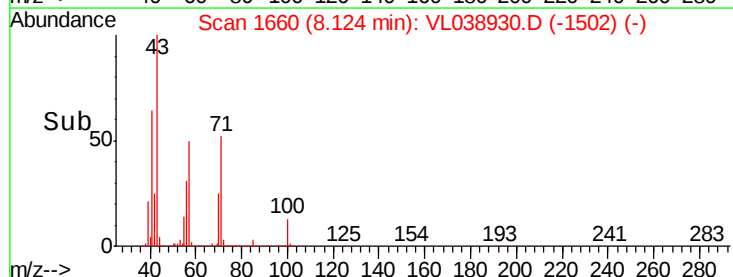
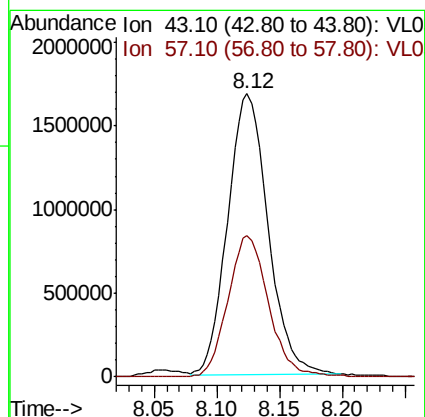
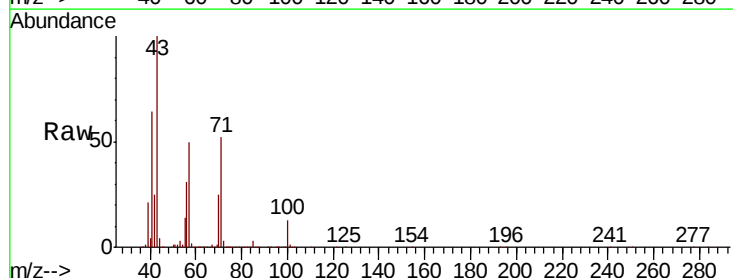
Acq: 14 Apr 2022 23:25

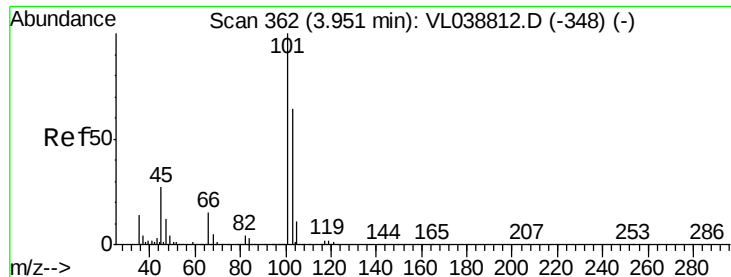
Tgt Ion: 43 Resp: 3762424

Ion Ratio Lower Upper

43 100

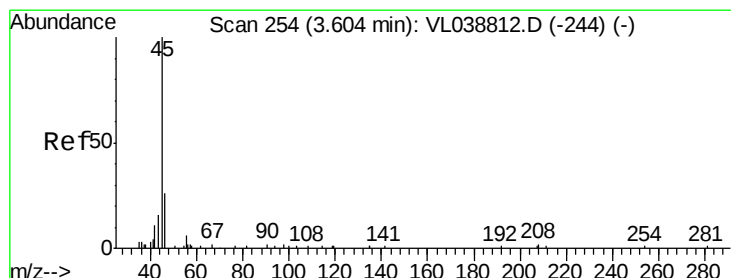
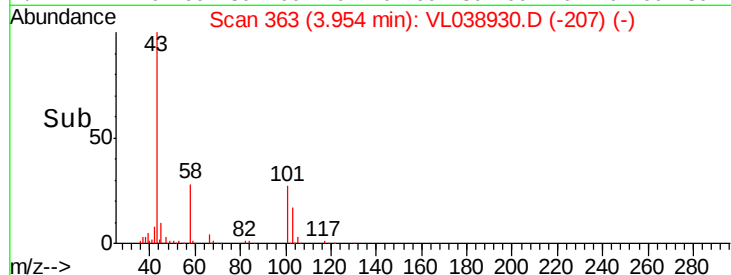
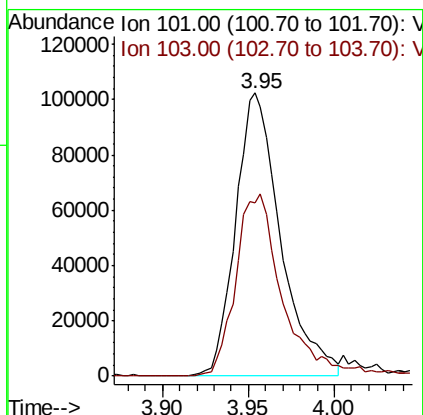
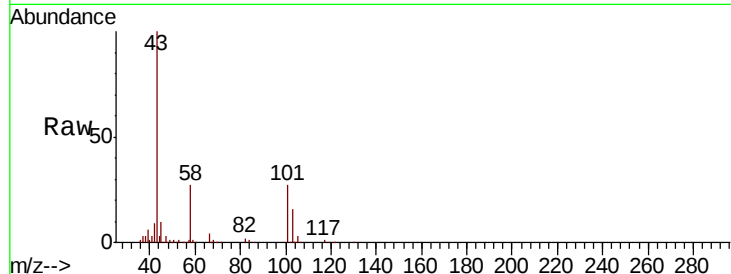
57 50.6 39.3 58.9





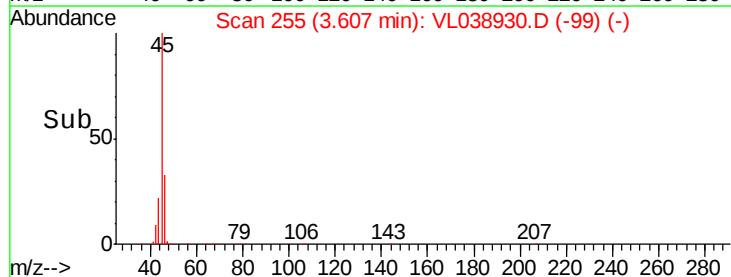
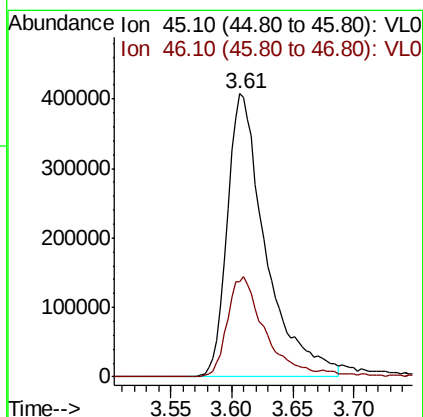
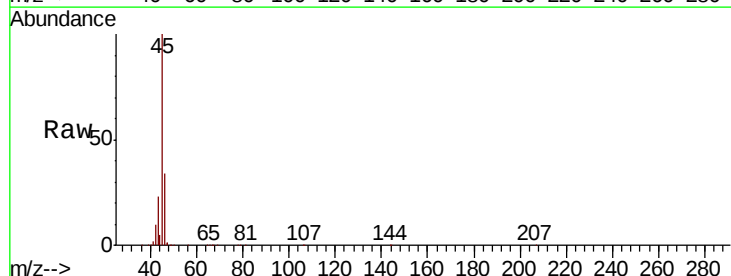
#11
 Trichlorofluoromethane
 Concen: 1.341 ppbv
 RT: 3.95 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Apr 2022 23:25

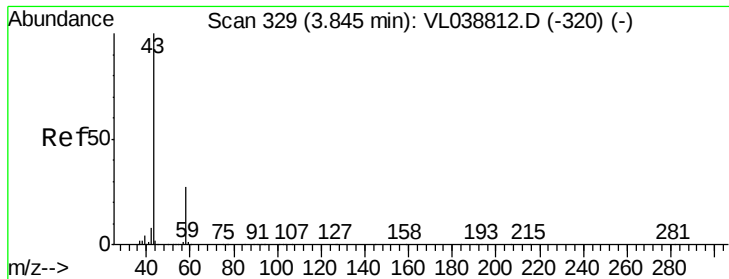
Tot Ion: 101 Resp: 186426
 Ion Ratio Lower Upper
 101 100
 103 61.4 51.4 77.0



#13
 Ethanol
 Concen: 187.555 ppbv
 RT: 3.61 min Scan# 255
 Delta R.T. 0.00 min
 Lab File: VL038930.D
 Acq: 14 Apr 2022 23:25

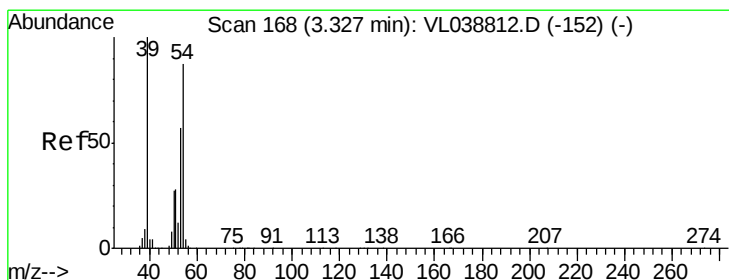
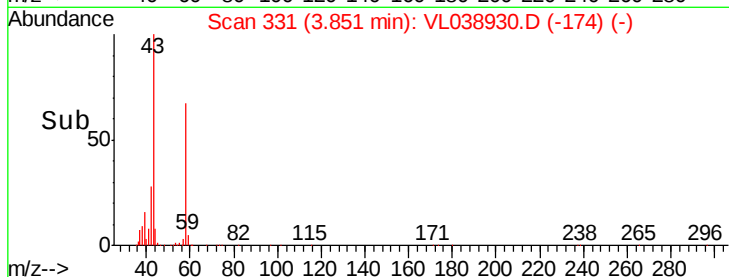
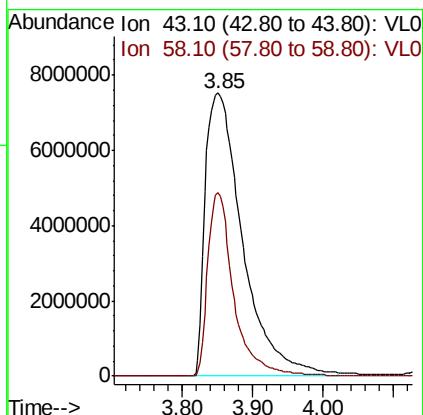
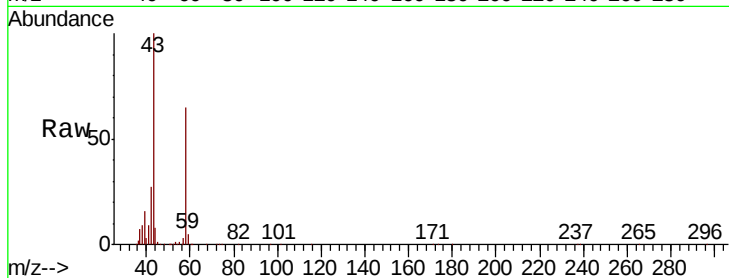
Tgt Ion: 45 Resp: 897841
 Ion Ratio Lower Upper
 45 100
 46 35.8 0.0 0.0#





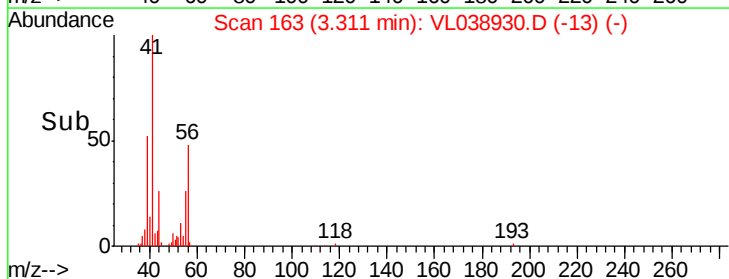
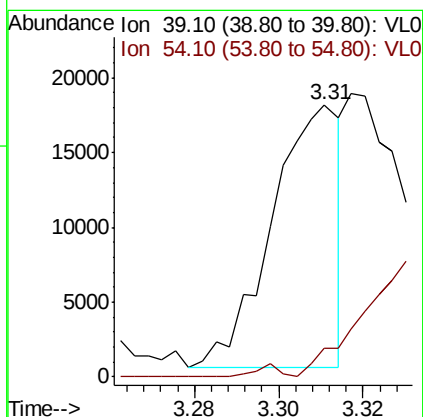
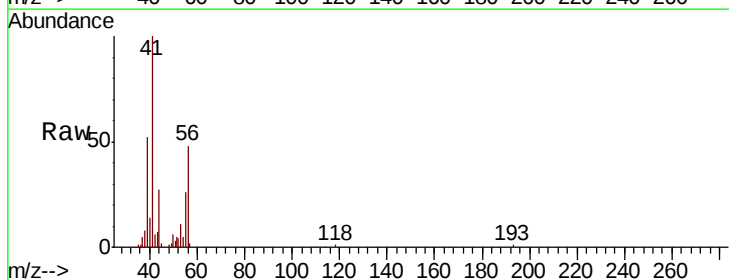
#15
Acetone
Concen: 229.499 ppbv
RT: 3.85
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Apr 2022 23:25

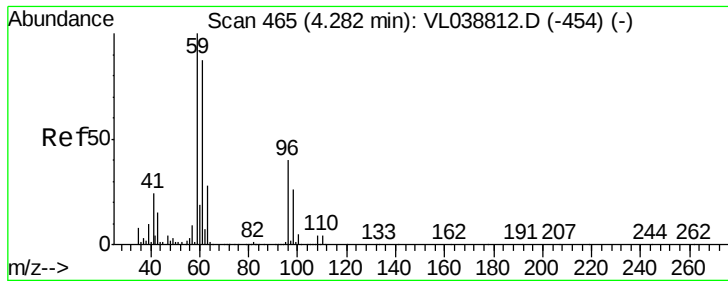
Tot Ion: 43 Resp: 27874327
Ion Ratio Lower Upper
43 100
58 45.4 22.5 33.7#



#16
1,3-Butadiene
Concen: 0.282 ppbv
RT: 3.31 min Scan# 163
Delta R.T. -0.02 min
Lab File: VL038930.D
Acq: 14 Apr 2022 23:25

Tgt Ion: 39 Resp: 19608
Ion Ratio Lower Upper
39 100
54 106.7 64.8 97.2#





#17

tert-Butyl alcohol

Concen: 0.124 ppbv

RT: 4.12 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

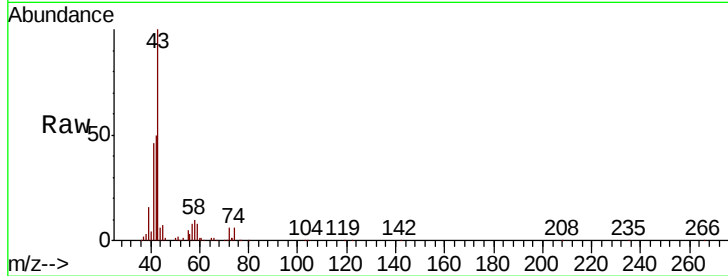
Acq: 14 Apr 2022 23:25

Tot Ion: 59 Resp: 13536

Ion Ratio Lower Upper

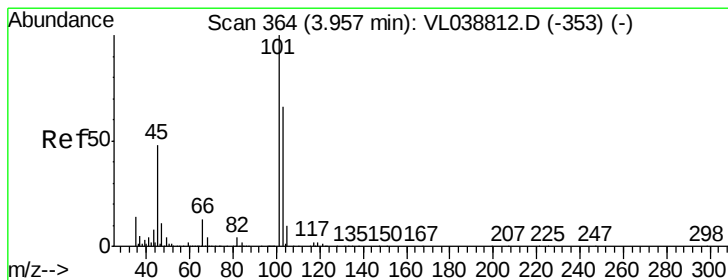
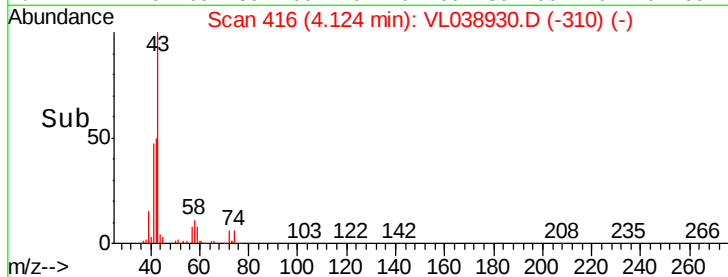
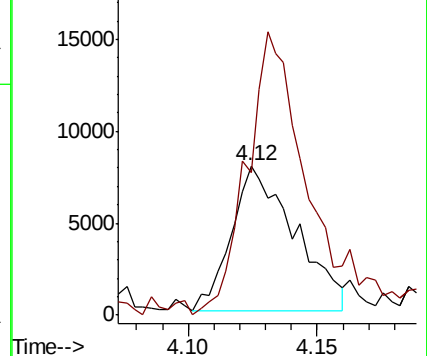
59 100

57 218.8 8.5 12.7#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#19

Isopropyl Alcohol

Concen: 5.654 ppbv

RT: 3.97 min Scan# 368

Delta R.T. 0.01 min

Lab File: VL038930.D

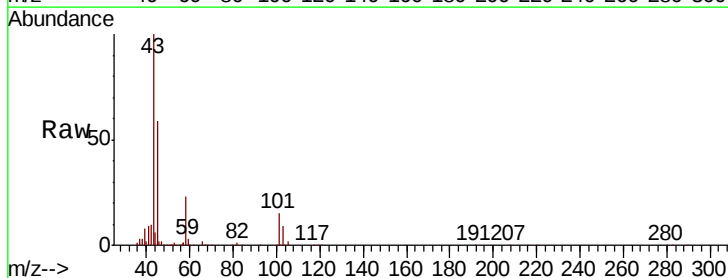
Acq: 14 Apr 2022 23:25

Tgt Ion: 45 Resp: 351004

Ion Ratio Lower Upper

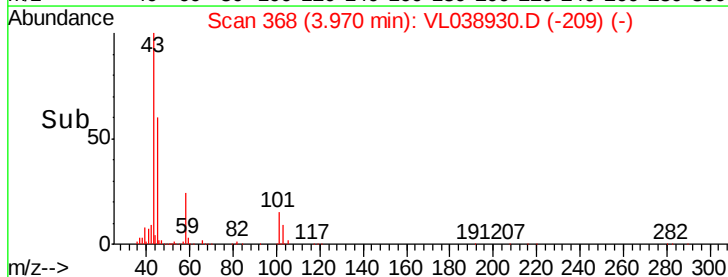
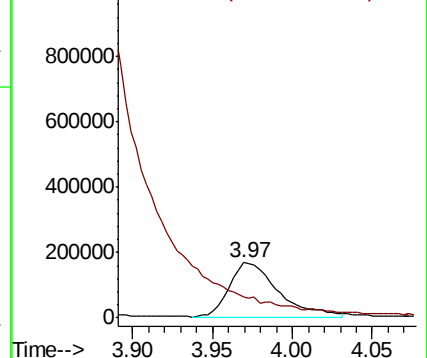
45 100

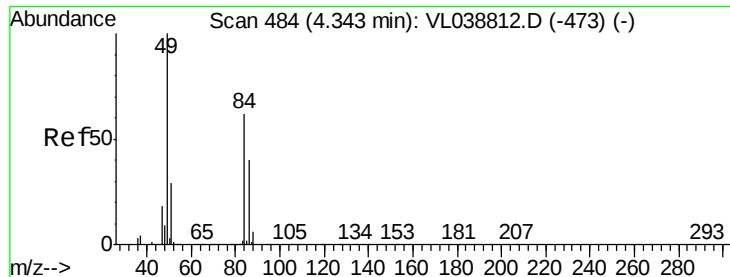
58 0.0 0.0 0.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

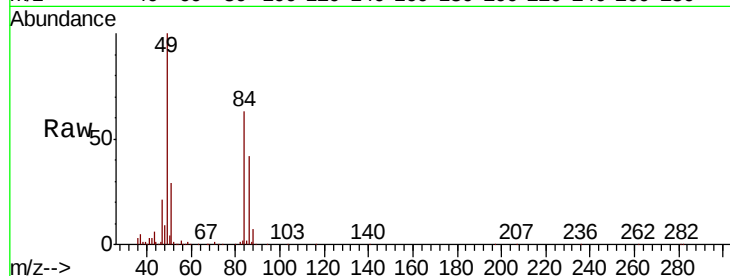
Ion 58.10 (57.80 to 58.80): VL0



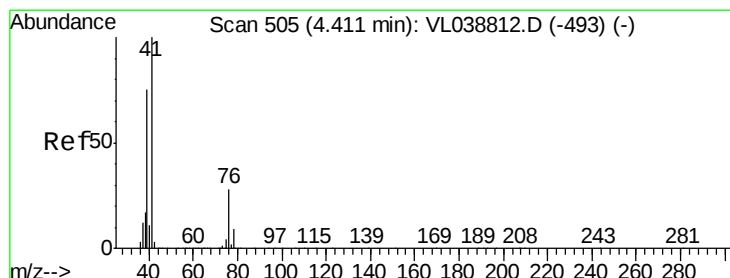
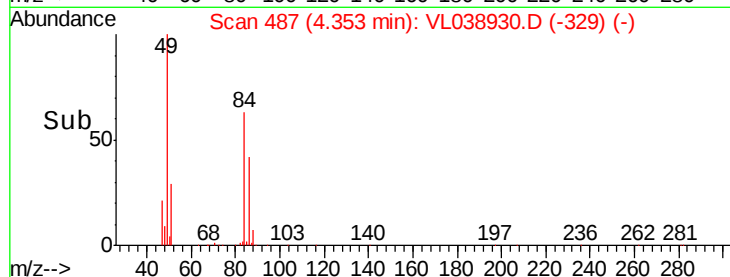
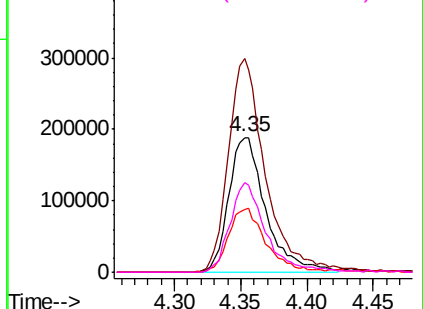


#20
Methylene Chloride
Concen: 8.334 ppbv
RT: 4.35 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 14 Apr 2022 23:25

Tot Ion:	84	Resp:	367116
Ion	Ratio	Lower	Upper
84	100		
49	158.2	129.4	194.0
51	46.1	37.4	56.2
86	66.3	51.4	77.2

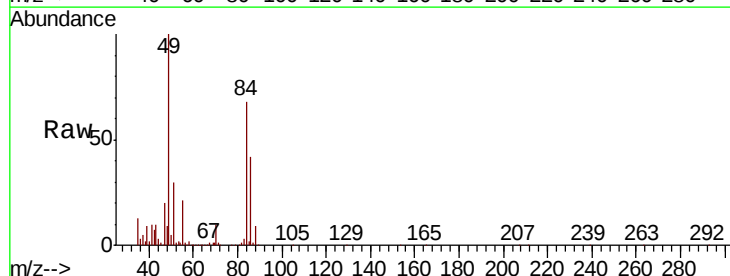


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

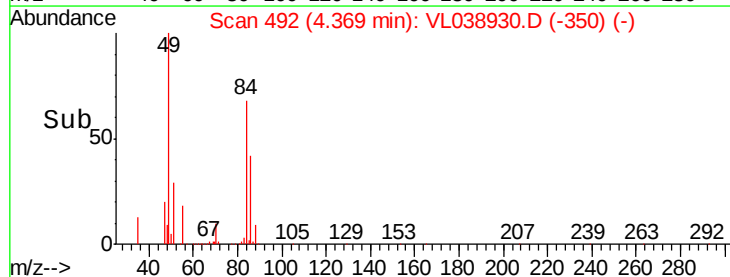
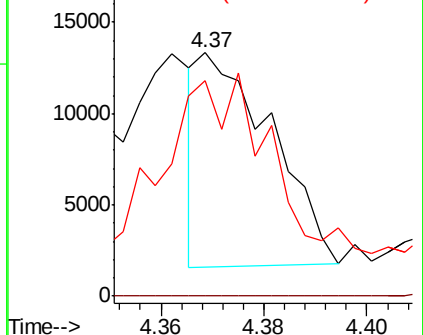


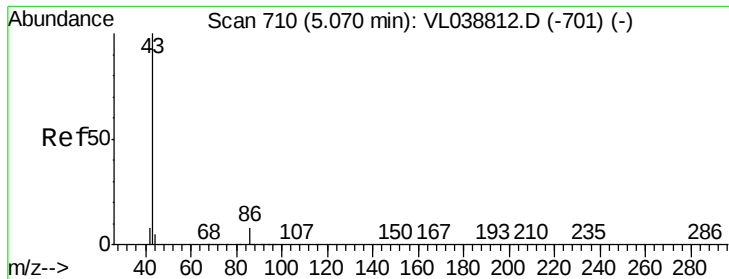
#21
Allyl Chloride
Concen: 0.125 ppbv
RT: 4.37 min Scan# 492
Delta R.T. -0.04 min
Lab File: VL038930.D
Acq: 14 Apr 2022 23:25

Tgt Ion:	41	Resp:	11408
Ion	Ratio	Lower	Upper
41	100		
76	0.0	23.7	35.5#
39	224.6	62.0	93.0#



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





#23

Vinyl Acetate

Concen: 0.291 ppbv

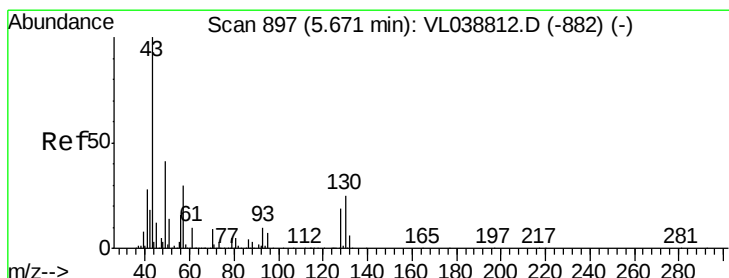
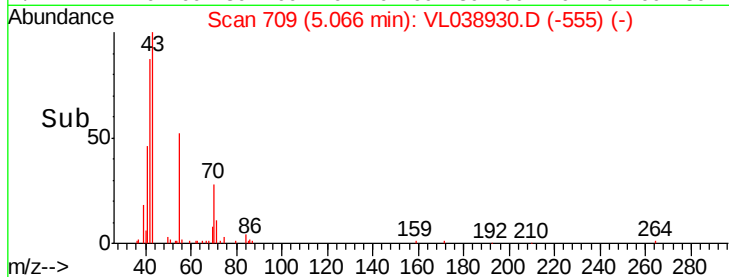
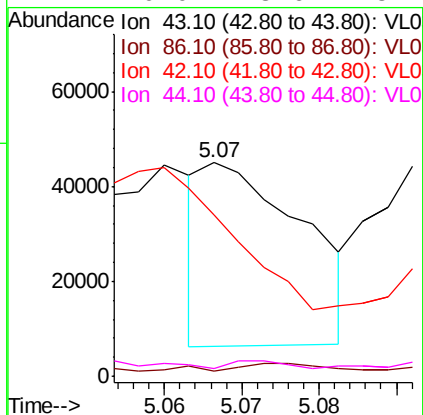
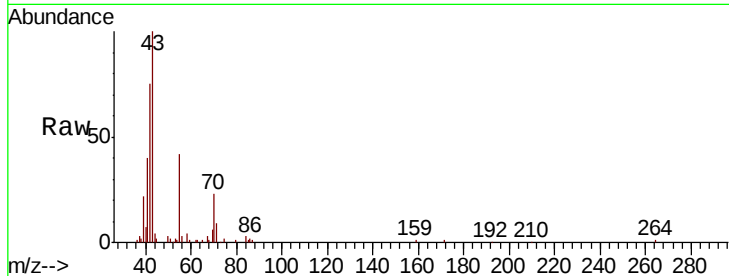
RT: 5.07 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Apr 2022 23:25

Tot Ion:	43	Resp:	34417
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.8	8.6#
42	100.5	7.8	11.6#
44	0.0	3.6	5.4#



#25

Ethyl Acetate

Concen: 1.787 ppbv

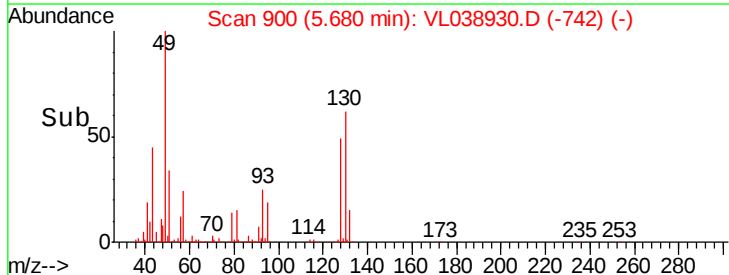
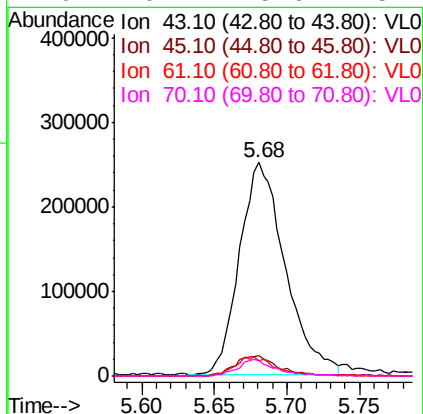
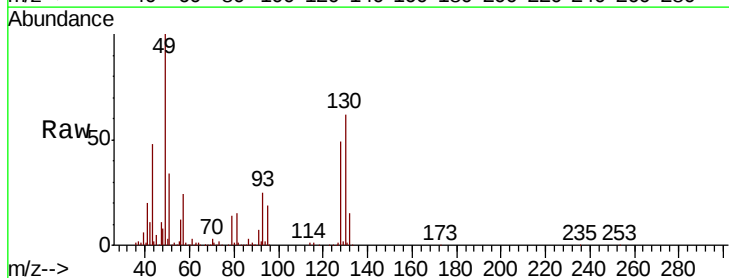
RT: 5.68 min Scan# 900

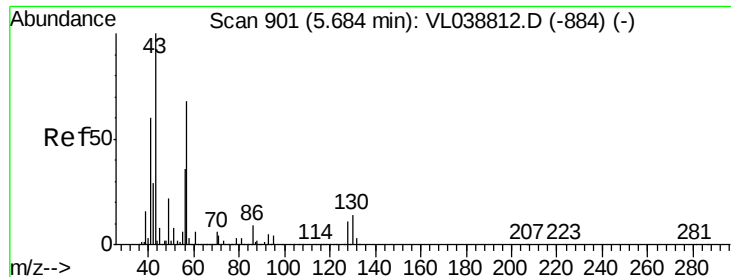
Delta R.T. 0.01 min

Lab File: VL038930.D

Acq: 14 Apr 2022 23:25

Tgt Ion:	43	Resp:	550603
Ion	Ratio	Lower	Upper
43	100		
45	9.6	8.4	12.6
61	8.1	7.9	11.9
70	6.7	5.6	8.4





#26

Hexane

Concen: 2.222 ppbv

RT: 5.69 Instrument:

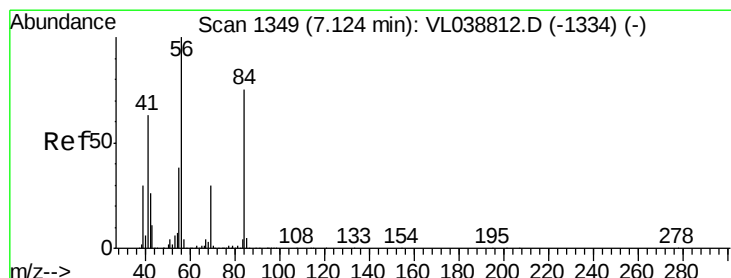
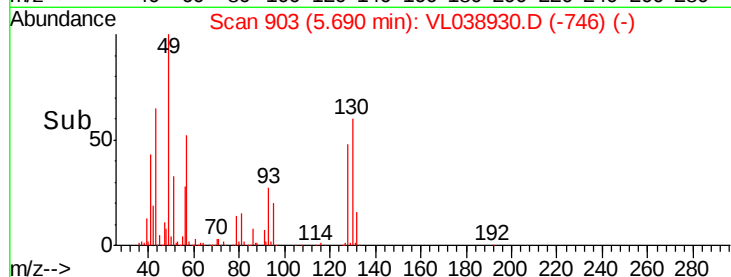
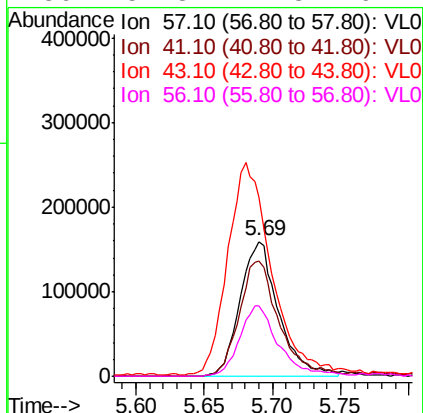
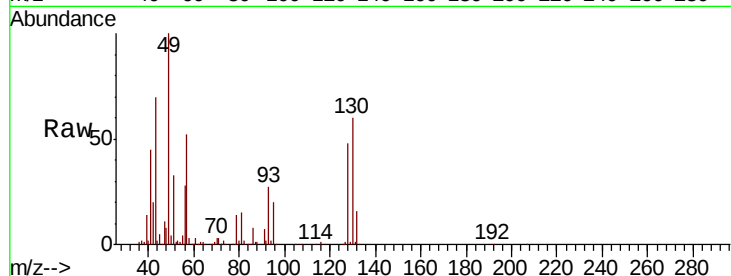
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Apr 2022 23:25

Tot Ion: 57 Resp: 311762

Ion	Ratio	Lower	Upper
57	100		
41	91.8	72.0	108.0
43	186.4	186.6	280.0#
56	52.8	42.8	64.2



#30

Cyclohexane

Concen: 0.980 ppbv

RT: 7.13 min Scan# 1352

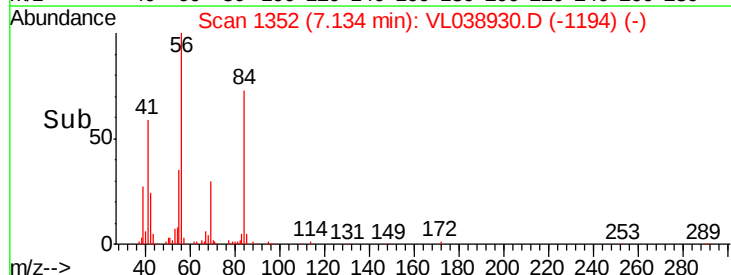
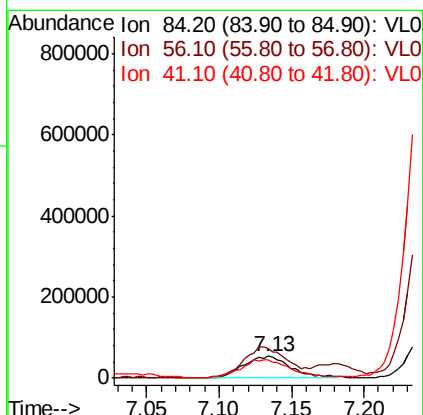
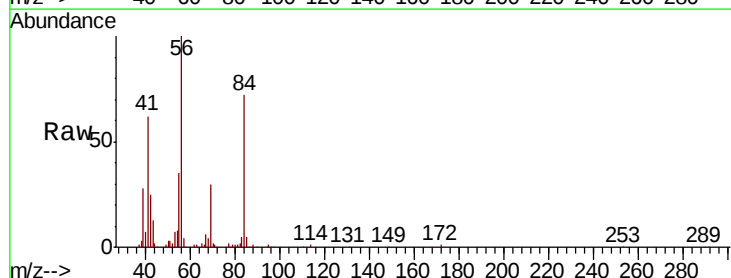
Delta R.T. 0.01 min

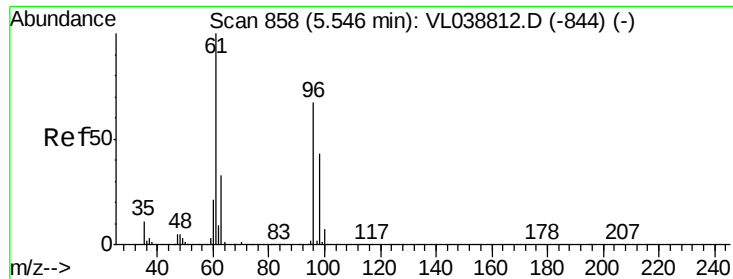
Lab File: VL038930.D

Acq: 14 Apr 2022 23:25

Tgt Ion: 84 Resp: 121183

Ion	Ratio	Lower	Upper
84	100		
56	139.6	114.4	171.6
41	164.0	69.0	103.4#





#31

cis-1,2-Dichloroethene

Concen: 0.320 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Apr 2022 23:25

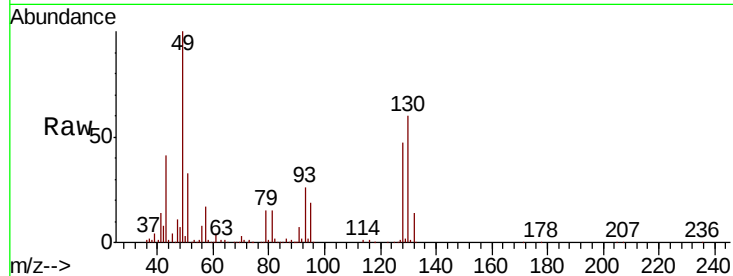
Tot Ion: 61 Resp: 41306

Ion Ratio Lower Upper

61 100

96 4.7 53.4 80.0#

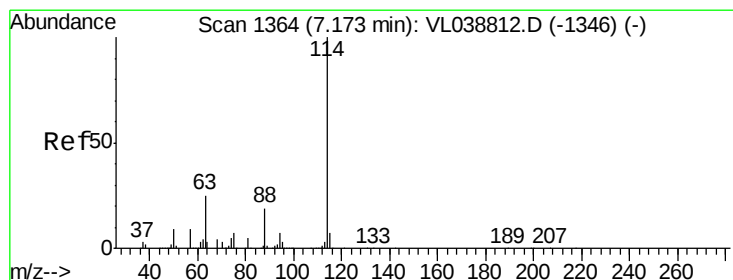
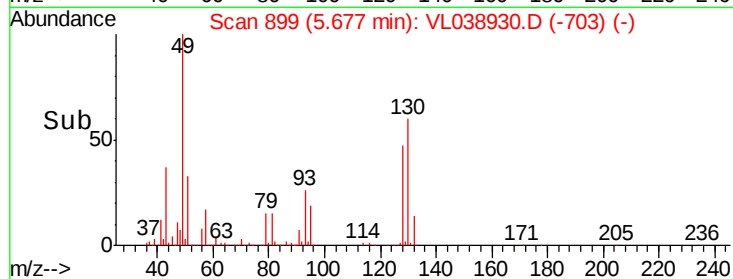
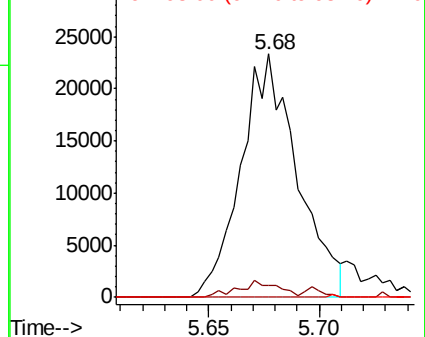
98 0.0 34.2 51.4#



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. 0.01 min

Lab File: VL038930.D

Acq: 14 Apr 2022 23:25

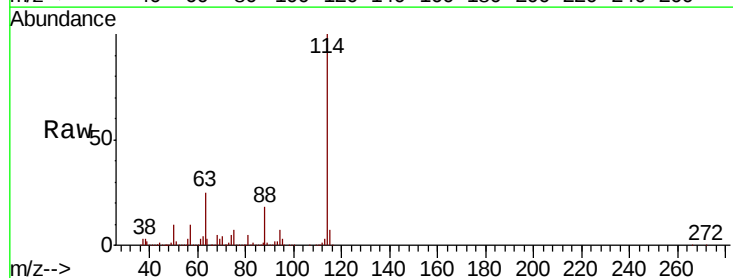
Tgt Ion: 114 Resp: 3009538

Ion Ratio Lower Upper

114 100

63 25.7 19.8 29.8

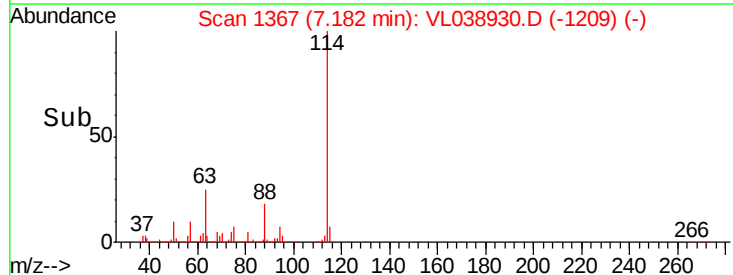
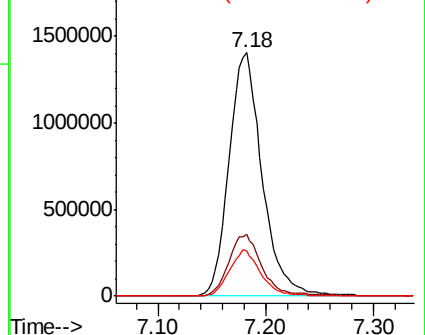
88 18.1 14.2 21.4

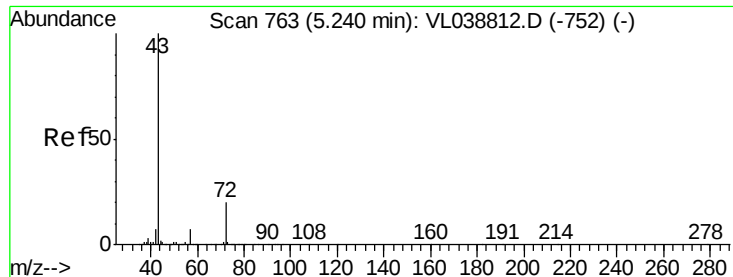


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

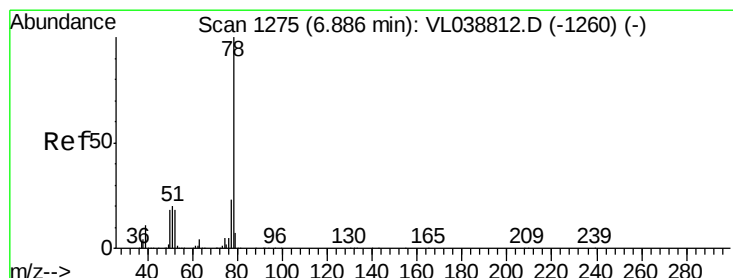
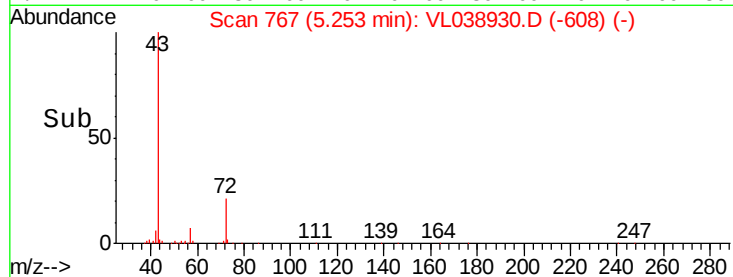
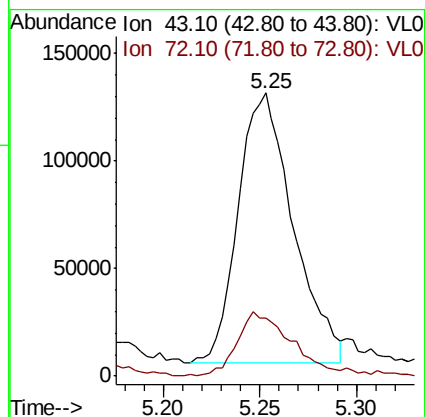
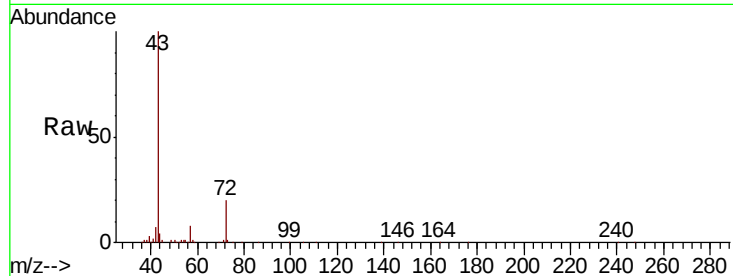
Ion 88.10 (87.80 to 88.80): VL0





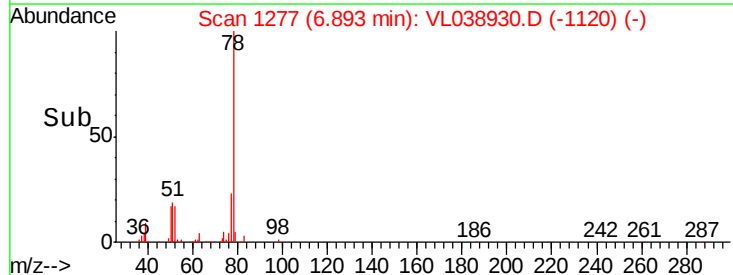
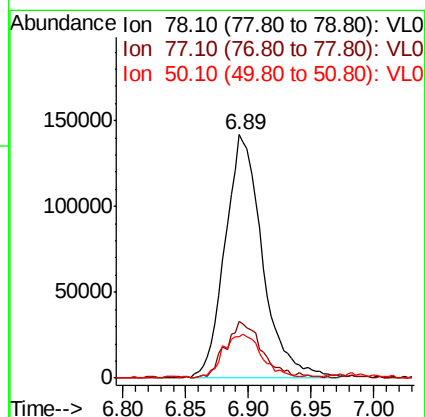
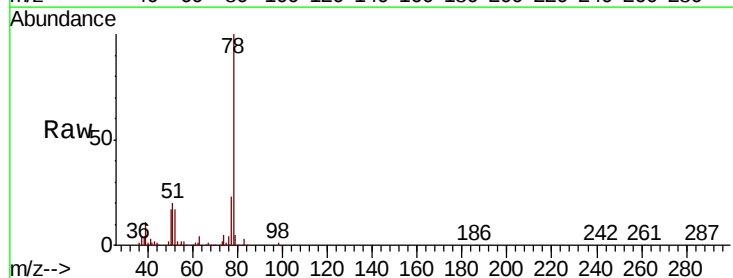
#34
 2-Butanone
 Concen: 2.084 ppbv
 RT: 5.25
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Apr 2022 23:25

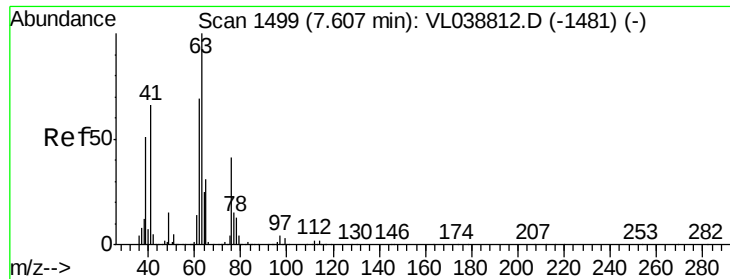
Tot Ion: 43 Resp: 247834
 Ion Ratio Lower Upper
 43 100
 72 25.4 16.9 25.3#



#36
 Benzene
 Concen: 1.060 ppbv
 RT: 6.89 min Scan# 1277
 Delta R.T. 0.01 min
 Lab File: VL038930.D
 Acq: 14 Apr 2022 23:25

Tgt Ion: 78 Resp: 290333
 Ion Ratio Lower Upper
 78 100
 77 23.0 18.2 27.2
 50 16.8 14.0 21.0





#39

1,2-Dichloropropane

Concen: 7.193 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Apr 2022 23:25

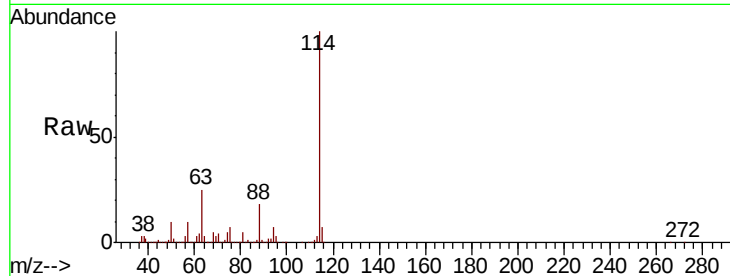
Tot Ion: 63 Resp: 753194

Ion Ratio Lower Upper

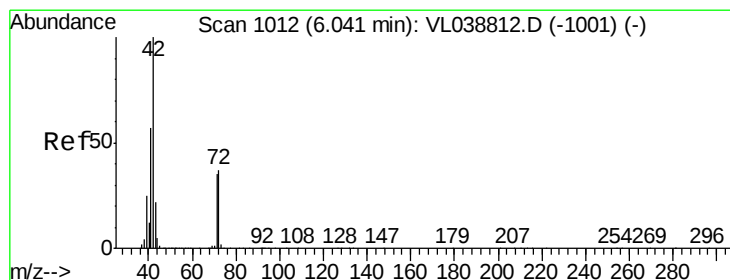
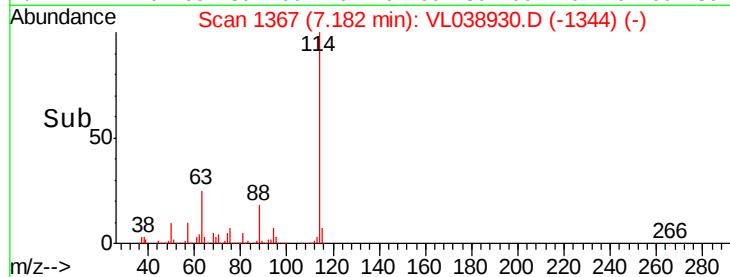
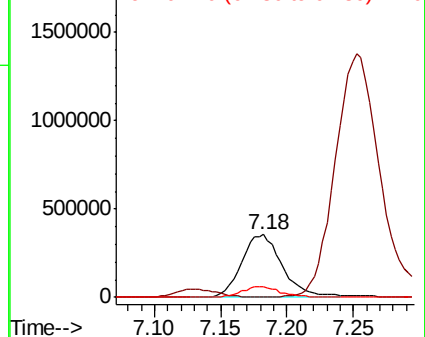
63 100

41 0.0 53.0 79.6#

62 16.2 55.0 82.4#



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



#41

Tetrahydrofuran

Concen: 0.040 ppbv

RT: 6.05 min Scan# 1016

Delta R.T. 0.01 min

Lab File: VL038930.D

Acq: 14 Apr 2022 23:25

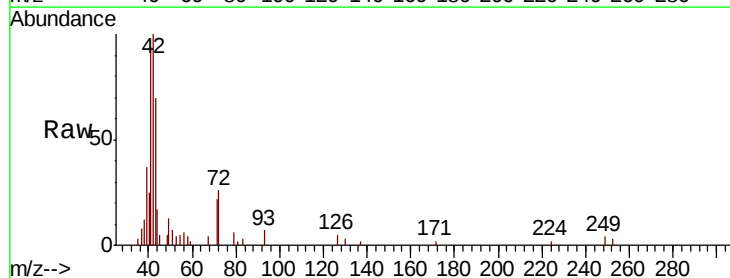
Tgt Ion: 42 Resp: 4469

Ion Ratio Lower Upper

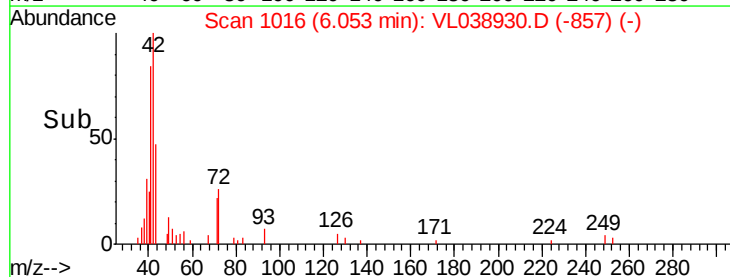
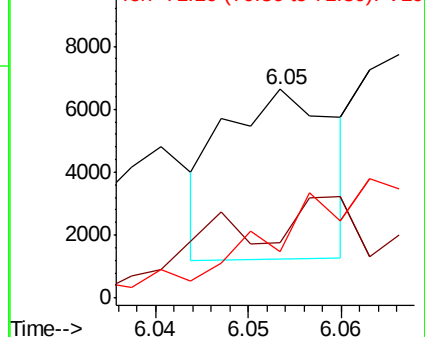
42 100

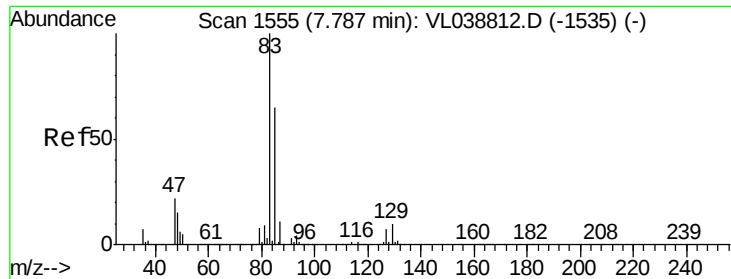
72 0.0 31.4 47.0#

71 0.0 30.2 45.4#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0





#42

Bromodichloromethane

Concen: 0.414 ppbv

RT: 7.79 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Apr 2022 23:25

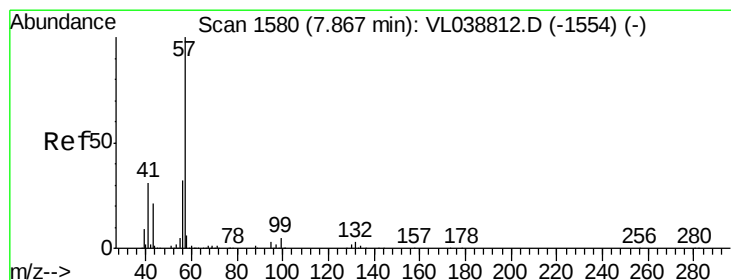
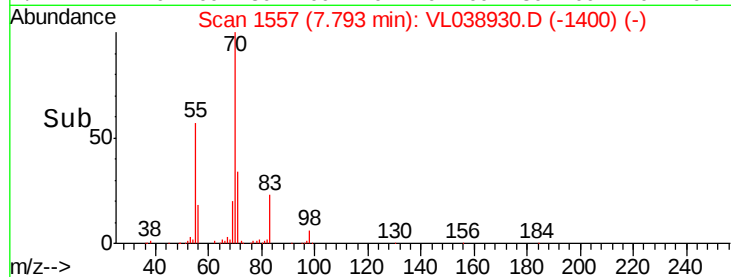
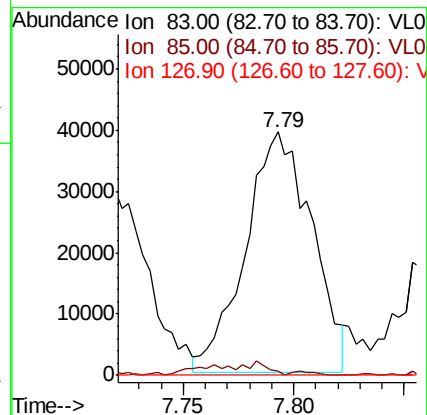
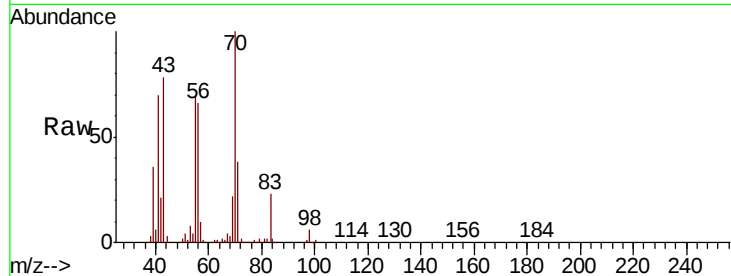
Tot Ion: 83 Resp: 81848

Ion Ratio Lower Upper

83 100

85 1.8 51.7 77.5#

127 0.0 5.9 8.9#



#44

2,2,4-Trimethylpentane

Concen: 0.323 ppbv

RT: 7.87 min Scan# 1582

Delta R.T. 0.01 min

Lab File: VL038930.D

Acq: 14 Apr 2022 23:25

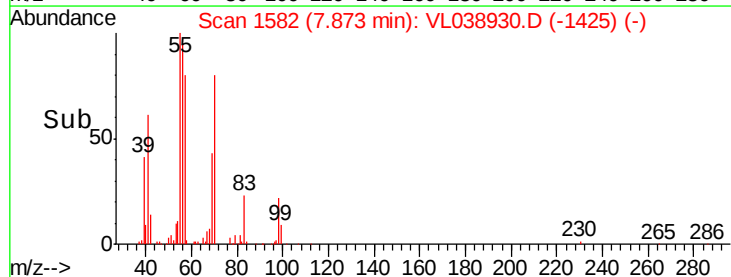
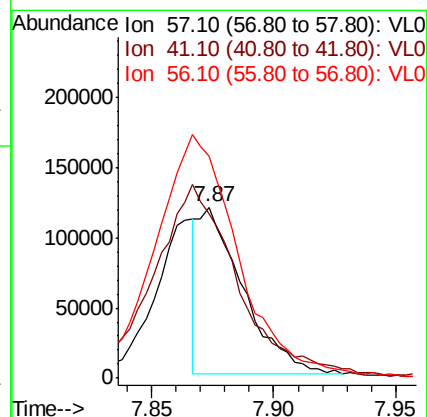
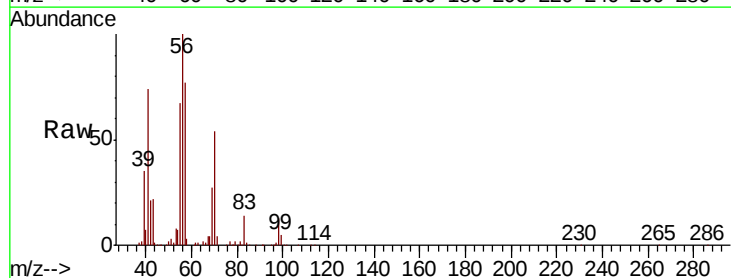
Tgt Ion: 57 Resp: 149714

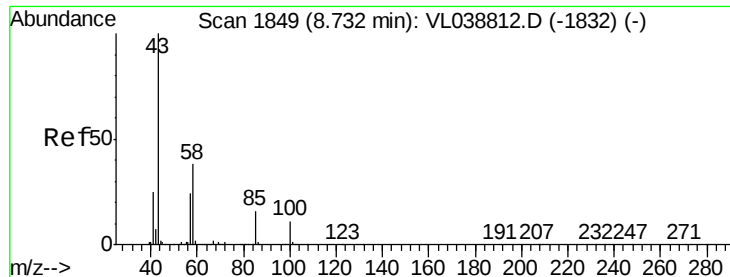
Ion Ratio Lower Upper

57 100

41 214.7 25.0 37.4#

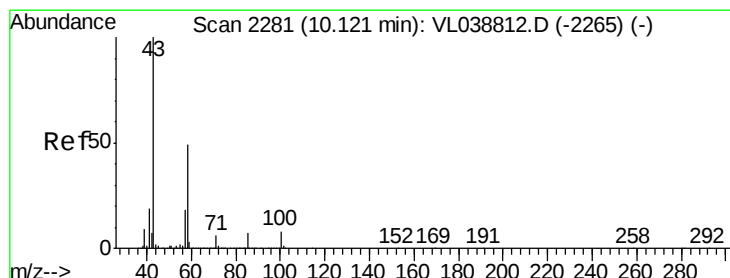
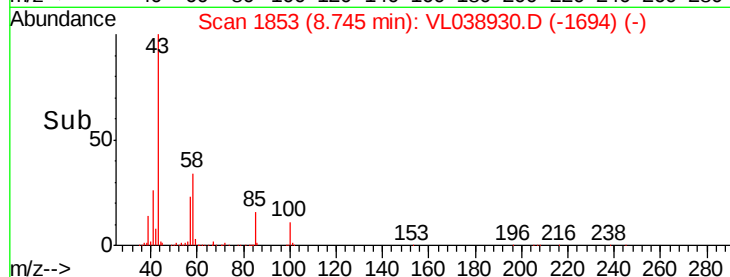
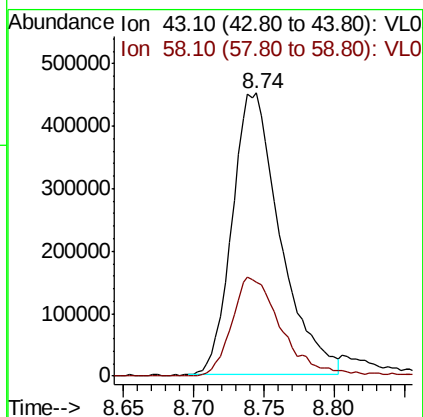
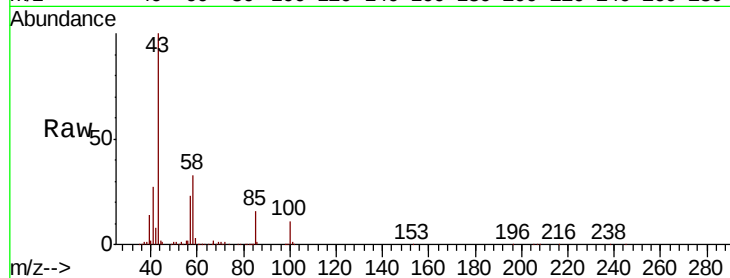
56 273.5 25.3 37.9#





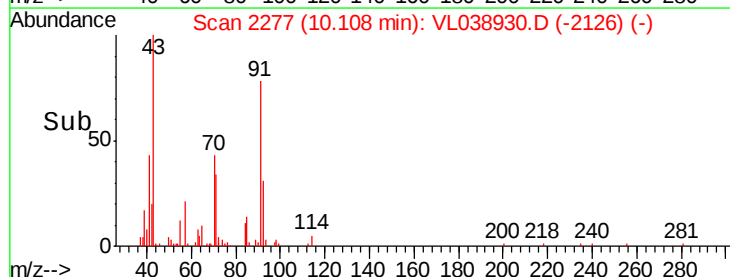
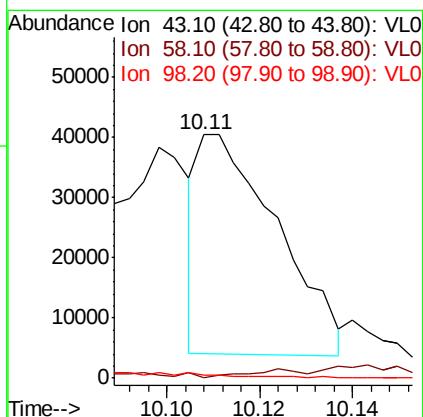
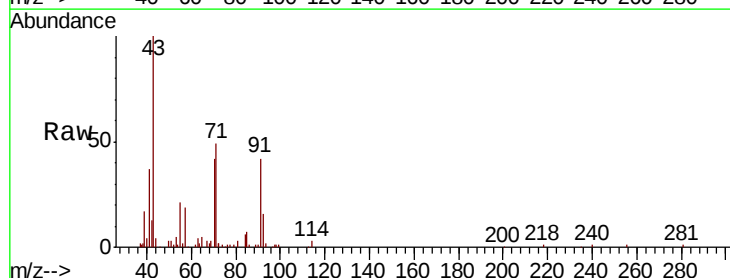
#50
 4-Methyl-2-pentanone
 Concen: 4.044 ppbv
 RT: 8.74 Instrument :
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Apr 2022 23:25

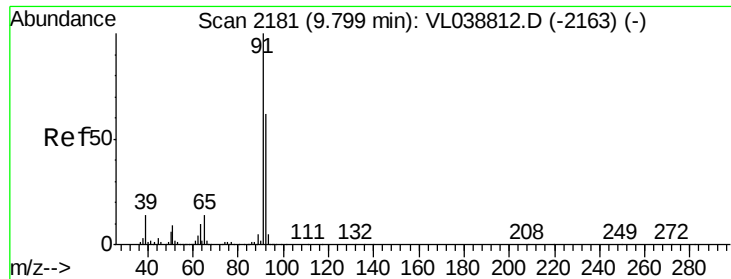
Tot Ion: 43 Resp: 1081775
 Ion Ratio Lower Upper
 43 100
 58 37.0 29.0 43.6



#51
 2-Hexanone
 Concen: 0.213 ppbv
 RT: 10.11 min Scan# 2277
 Delta R.T. -0.01 min
 Lab File: VL038930.D
 Acq: 14 Apr 2022 23:25

Tgt Ion: 43 Resp: 42907
 Ion Ratio Lower Upper
 43 100
 58 12.8 41.4 62.0#
 98 2.4 0.1 0.1#





#53

Toluene

Concen: 54.993 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

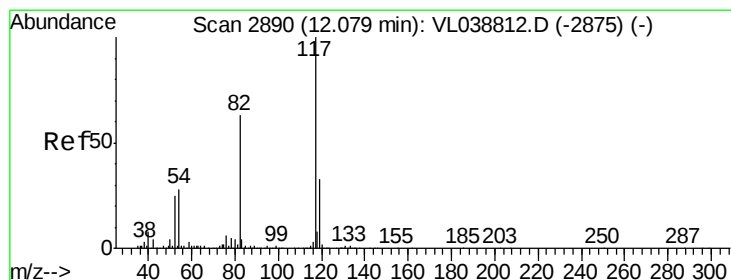
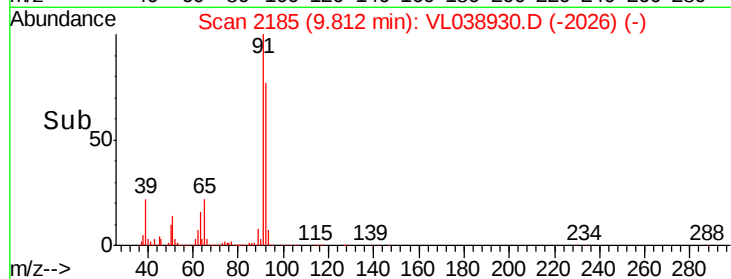
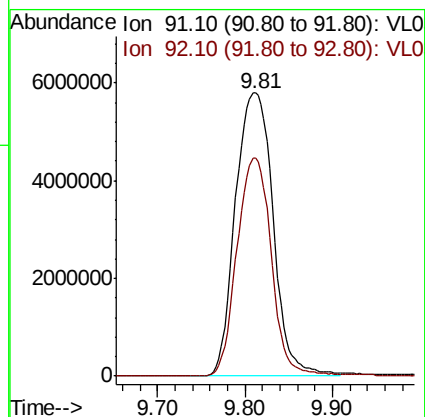
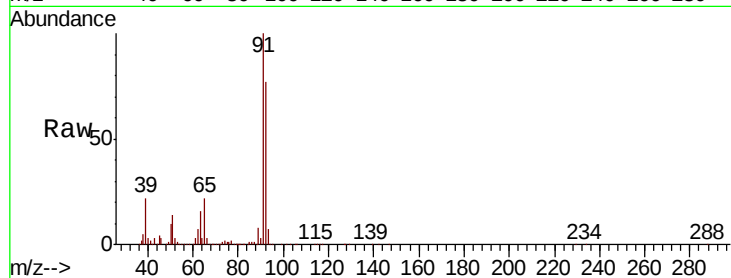
Acq: 14 Apr 2022 23:25

Tot Ion: 91 Resp:17380569

Ion Ratio Lower Upper

91 100

92 71.3 49.2 73.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. 0.01 min

Lab File: VL038930.D

Acq: 14 Apr 2022 23:25

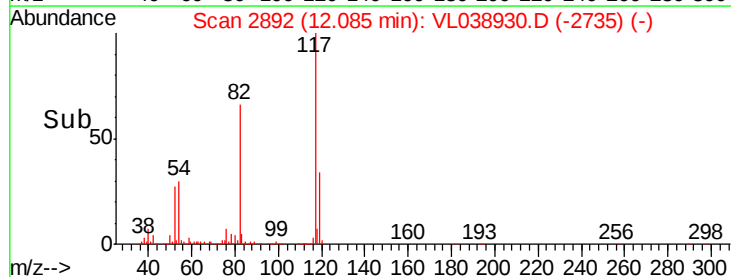
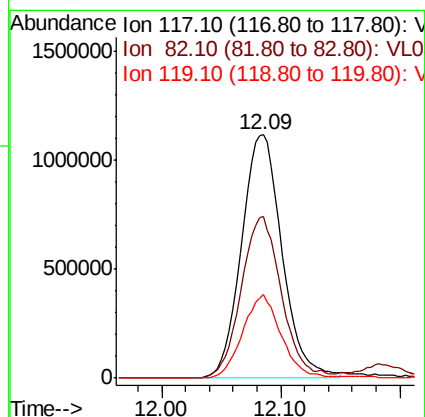
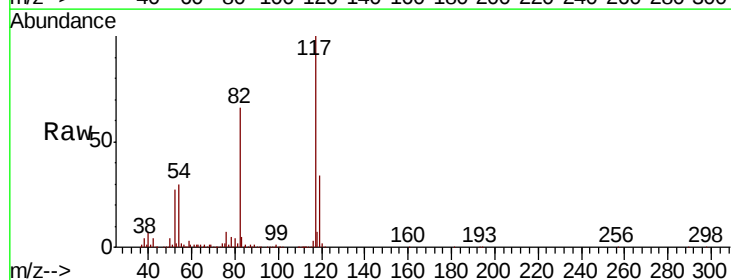
Tgt Ion:117 Resp: 2636717

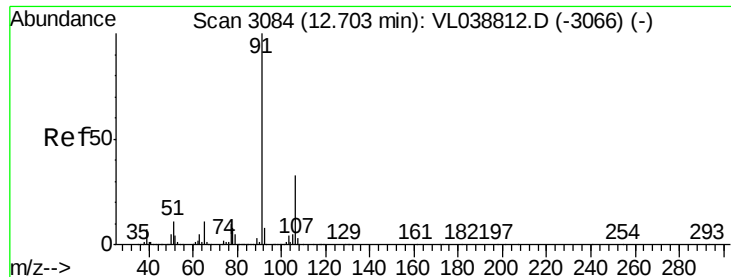
Ion Ratio Lower Upper

117 100

82 65.8 53.0 79.6

119 33.1 24.9 37.3





#58

Ethyl Benzene

Concen: 2.451 ppbv

RT: 12.71

Delta R.T. MSVOA_L

Lab File:

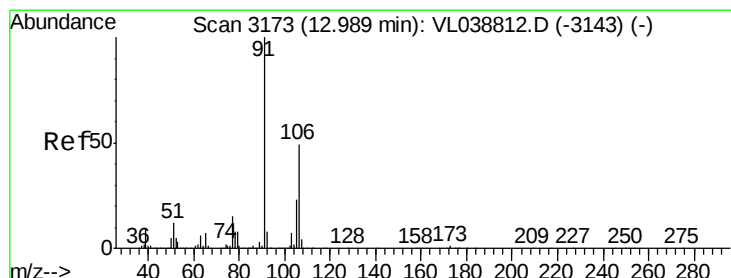
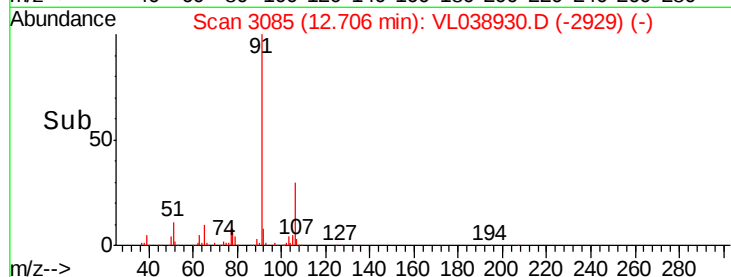
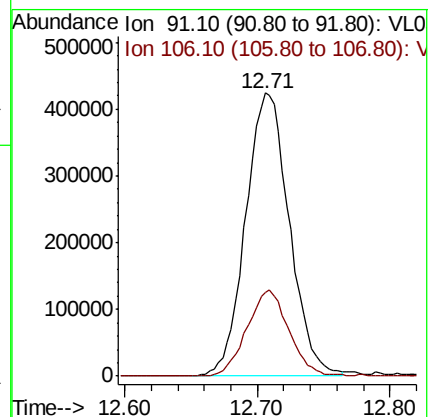
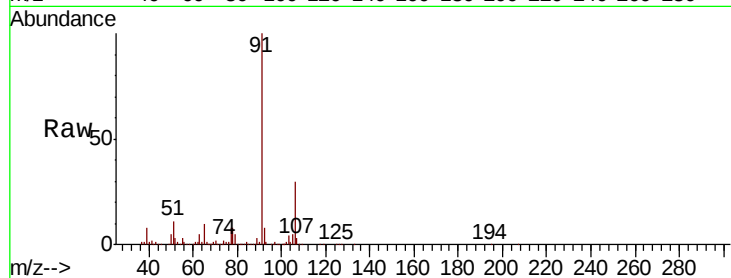
Acq: 14 Apr 2022 23:25

Tot Ion: 91 Resp: 965836

Ion Ratio Lower Upper

91 100

106 29.6 26.7 40.1



#59

m/p-Xylene

Concen: 7.493 ppbv

RT: 12.96 min Scan# 3165

Delta R.T. -0.03 min

Lab File: VL038930.D

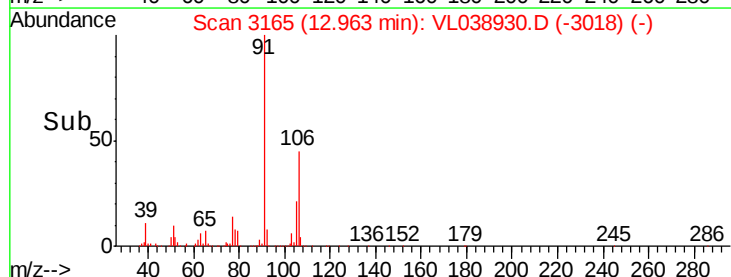
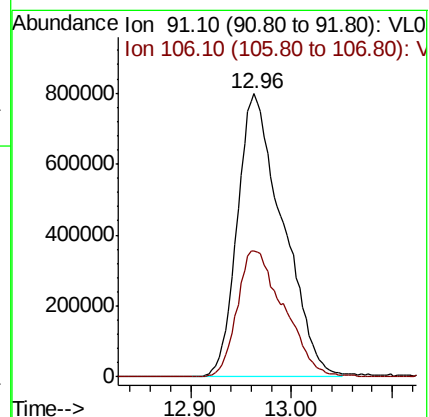
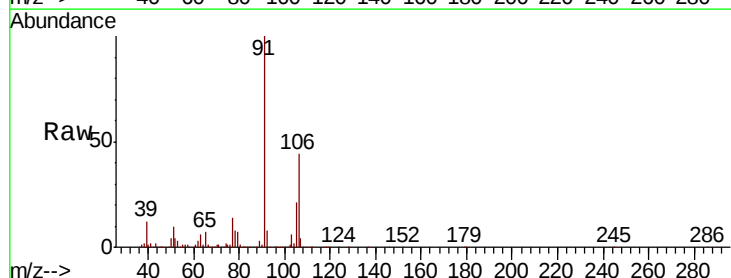
Acq: 14 Apr 2022 23:25

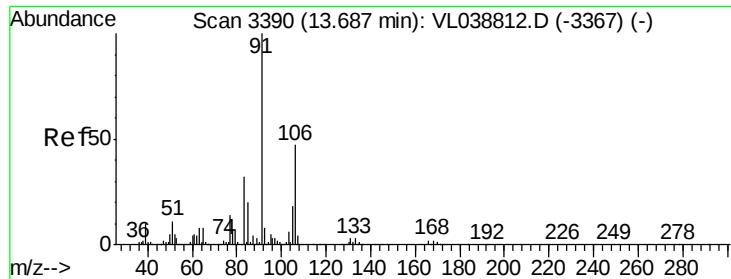
Tgt Ion: 91 Resp: 2480374

Ion Ratio Lower Upper

91 100

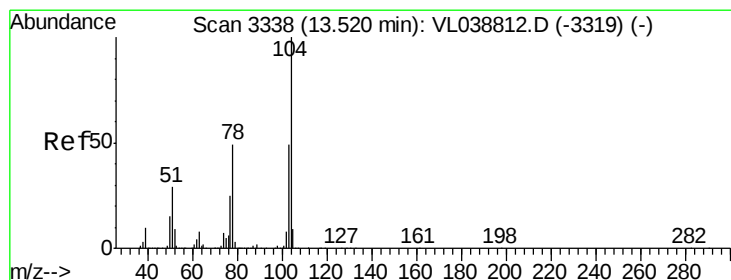
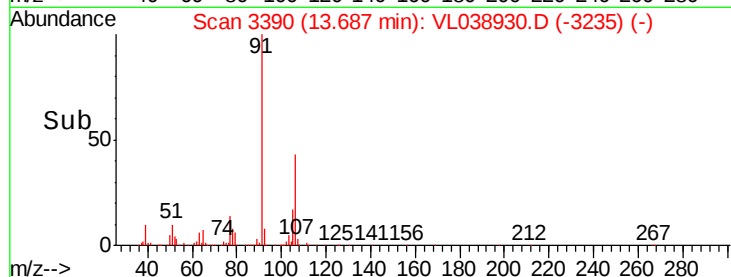
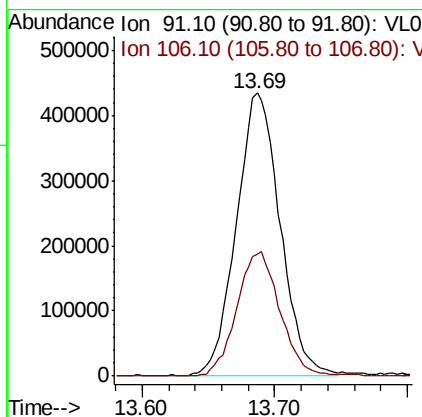
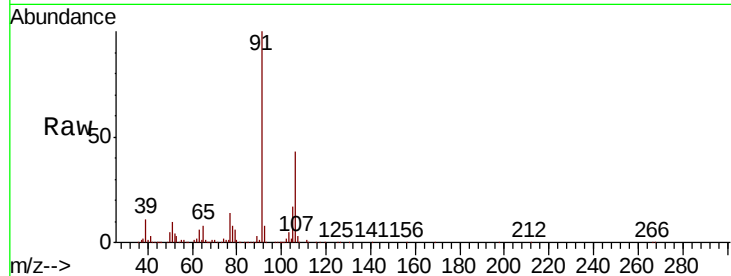
106 46.3 37.1 55.7





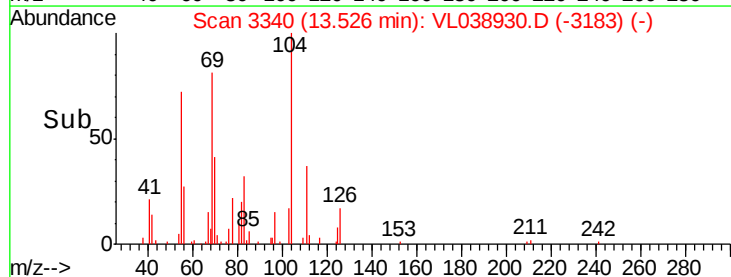
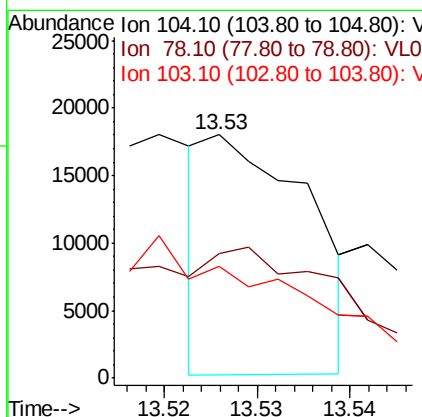
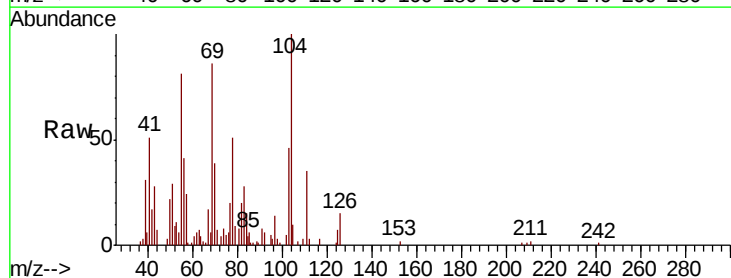
#60
o-Xylene
Concen: 3.191 ppbv
RT: 13.69
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 14 Apr 2022 23:25

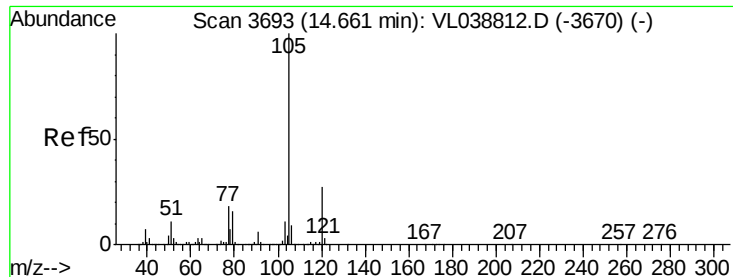
Tot Ion: 91 Resp: 988313
Ion Ratio Lower Upper
91 100
106 43.9 23.8 71.4



#61
Styrene
Concen: 0.073 ppbv
RT: 13.53 min Scan# 3340
Delta R.T.: 0.01 min
Lab File: VL038930.D
Acq: 14 Apr 2022 23:25

Tgt Ion: 104 Resp: 13692
Ion Ratio Lower Upper
104 100
78 166.8 40.5 60.7#
103 0.0 39.0 58.4#





#62

Isopropylbenzene

Concen: 0.286 ppbv

RT: 14.66 min

Delta R.T. MSVOA_L

Lab File:

ClientSampleId:

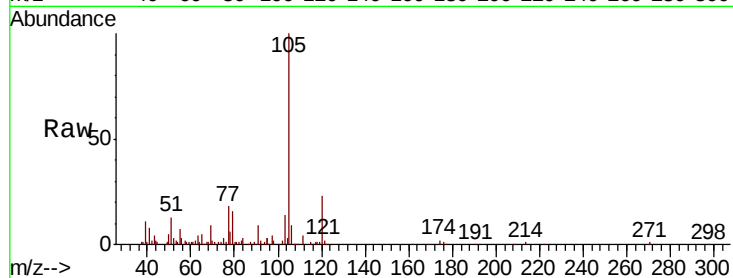
Acq: 14 Apr 2022 23:25

Tot Ion:105 Resp: 133111

Ion Ratio Lower Upper

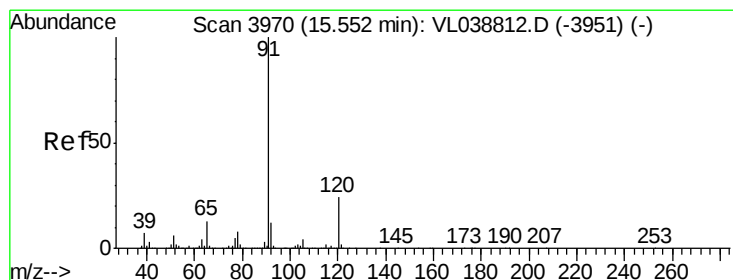
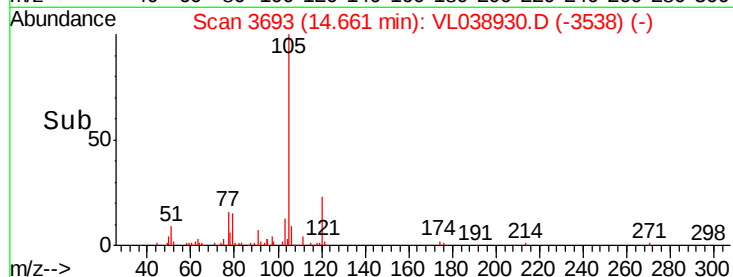
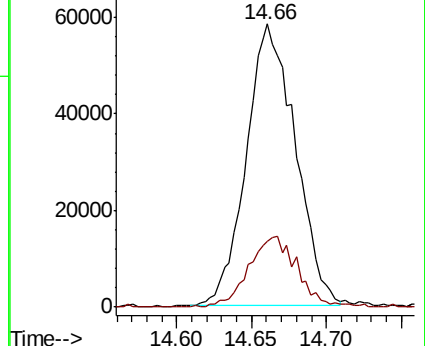
105 100

120 24.8 21.8 32.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 0.904 ppbv

RT: 15.56 min Scan# 3972

Delta R.T. 0.01 min

Lab File: VL038930.D

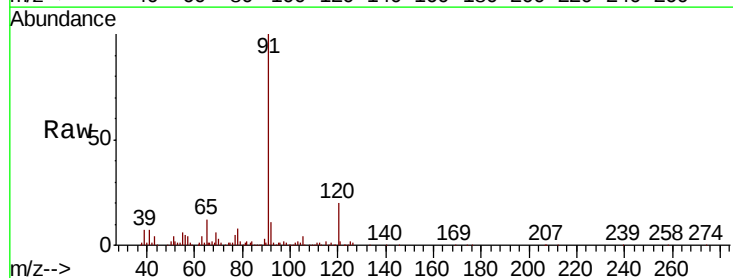
Acq: 14 Apr 2022 23:25

Tgt Ion:120 Resp: 109156

Ion Ratio Lower Upper

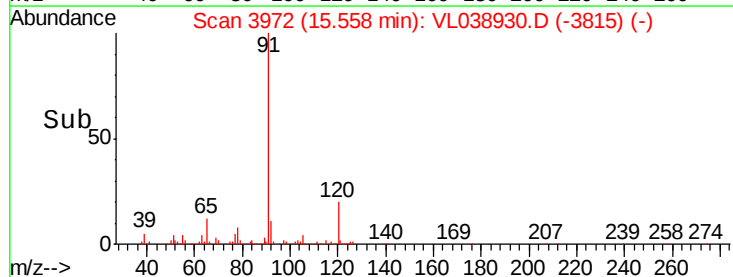
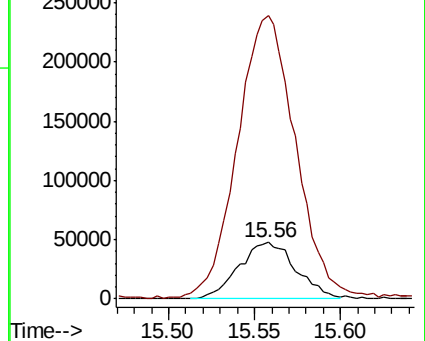
120 100

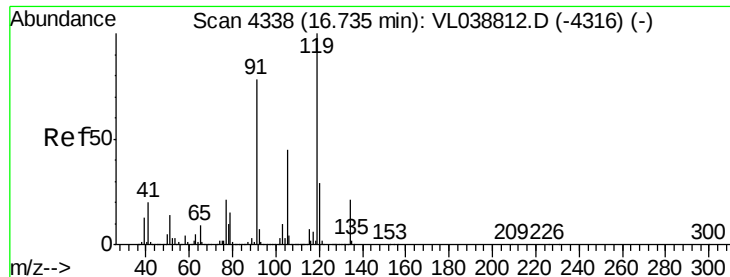
91 515.8 360.6 540.8



Abundance Ion 120.20 (119.90 to 120.90): V

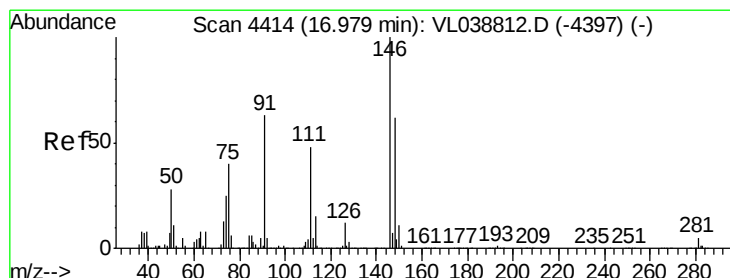
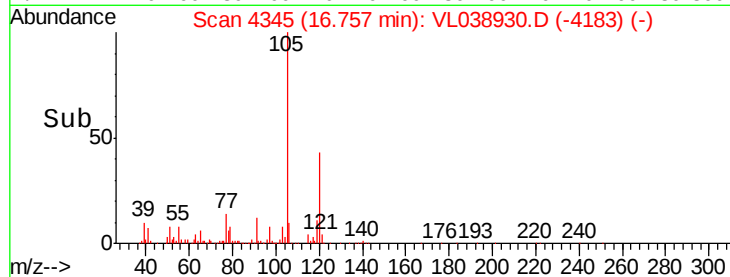
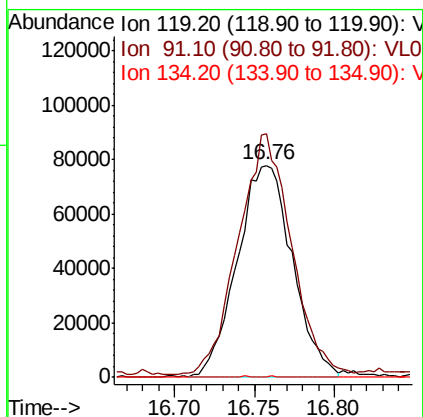
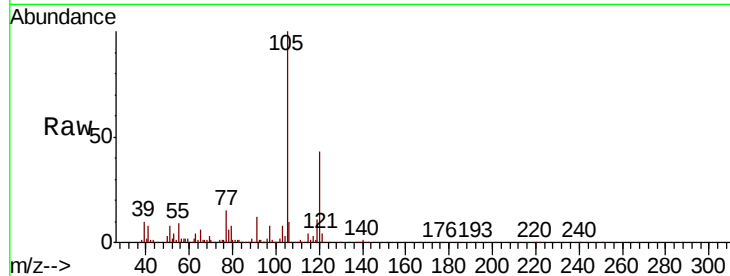
Ion 91.10 (90.80 to 91.80): VL0





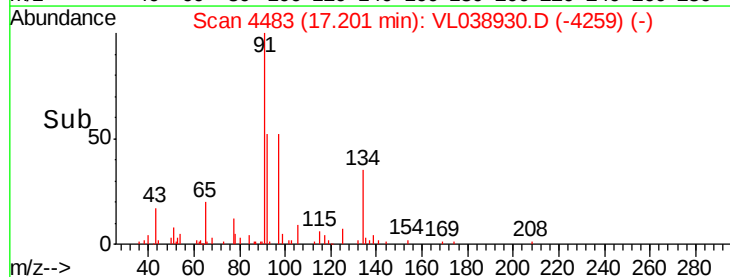
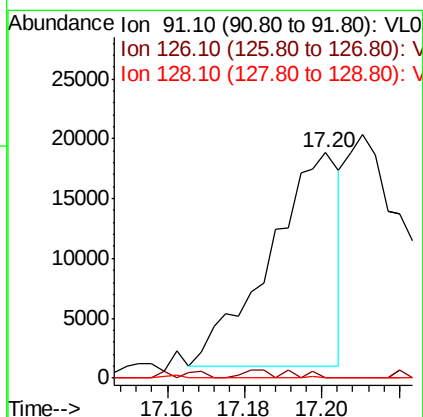
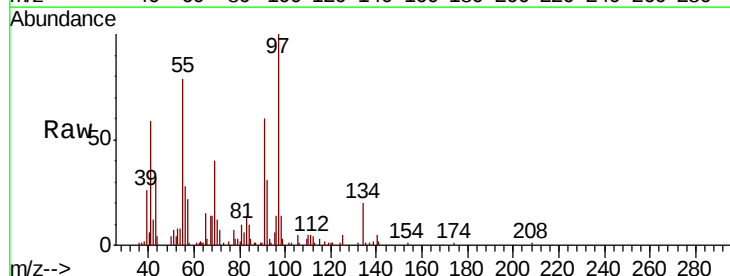
#65
 tert-Butylbenzene
 Concen: 0.447 ppbv
 RT: 16.76 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 14 Apr 2022 23:25

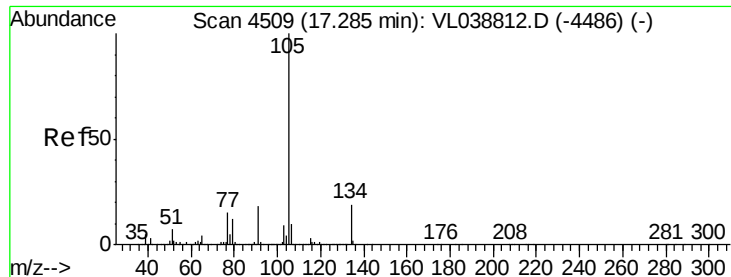
Tot Ion	Ratio	Lower	Upper
119	100		
91	110.2	62.8	94.2#
134	0.2	16.2	24.4#



#66
 Benzyl Chloride
 Concen: 0.266 ppbv
 RT: 17.20 min Scan# 4483
 Delta R.T.: 0.22 min
 Lab File: VL038930.D
 Acq: 14 Apr 2022 23:25

Tgt Ion	Ratio	Lower	Upper
91	100		
126	3.2	15.4	23.0#
128	0.4	4.7	7.1#





#67

sec-Butylbenzene

Concen: 0.241 ppbv

RT: 17.28 min

Delta R.T. MSVOA_L

Lab File:

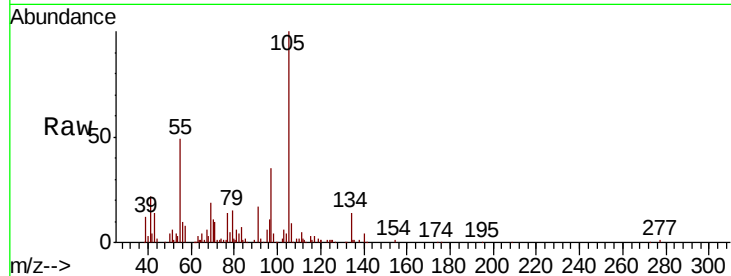
Acq: 14 Apr 2022 23:25

Tot Ion: 105 Resp: 139780

Ion Ratio Lower Upper

105 100

134 17.1 15.1 22.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.28

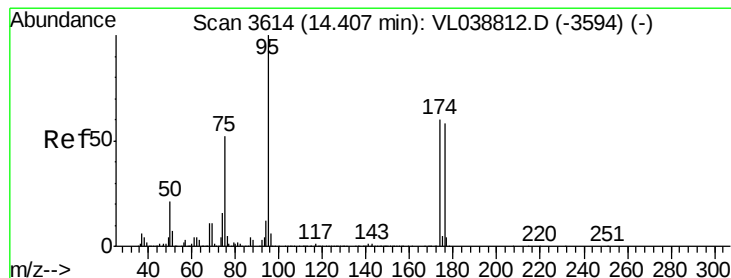
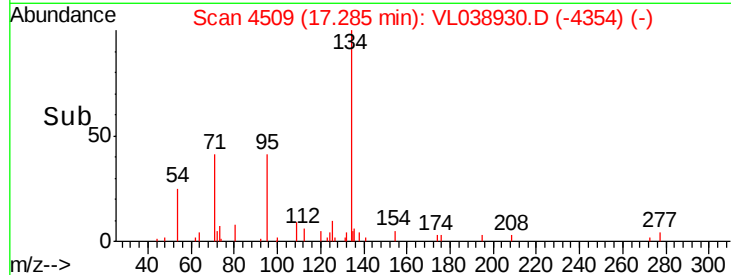
60000

40000

20000

0

Time--> 17.20 17.25 17.30 17.35



#68

1-Bromo-4-Fluorobenzene

Concen: 10.907 ppbv

RT: 14.41 min Scan# 3616

Delta R.T. 0.01 min

Lab File: VL038930.D

Acq: 14 Apr 2022 23:25

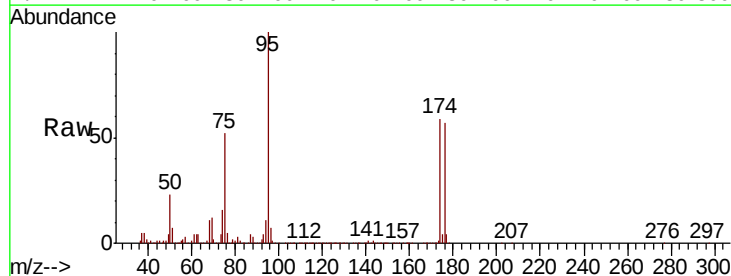
Tgt Ion: 95 Resp: 2181406

Ion Ratio Lower Upper

95 100

174 62.3 52.0 78.0

175 4.6 4.0 6.0



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

1200000

1000000

800000

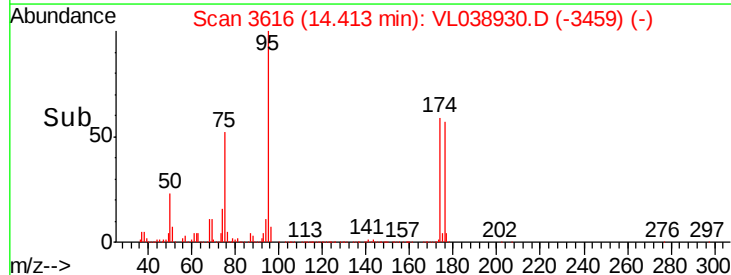
600000

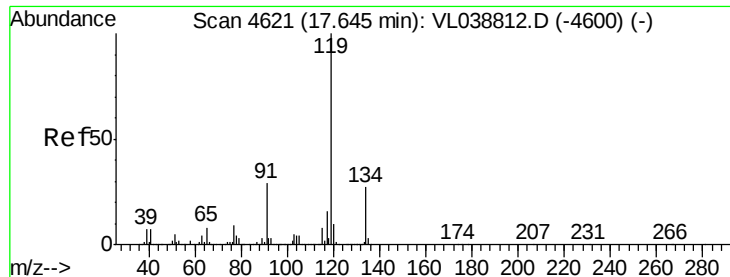
400000

200000

0

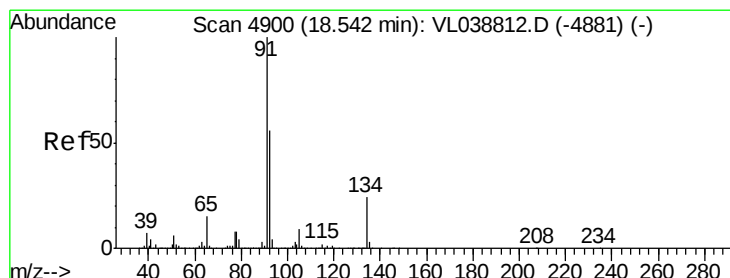
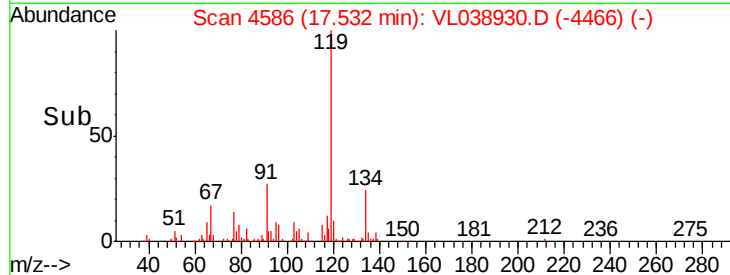
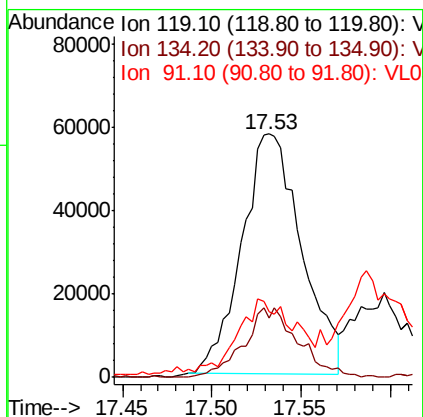
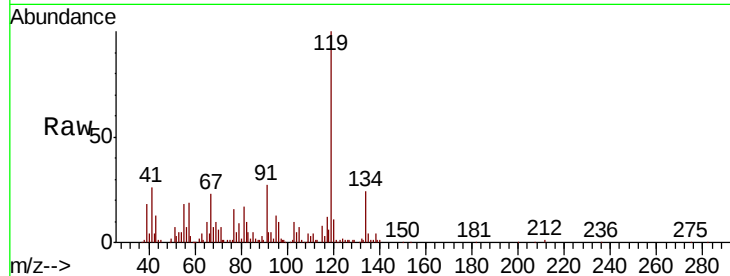
Time--> 14.30 14.40 14.50





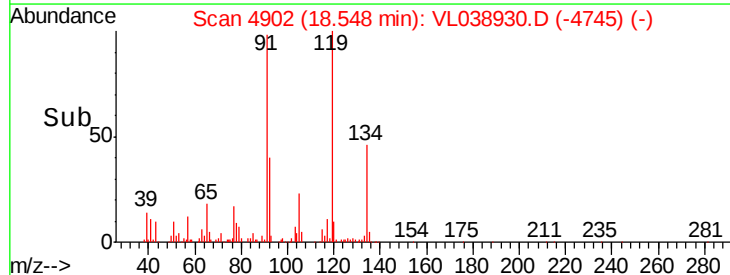
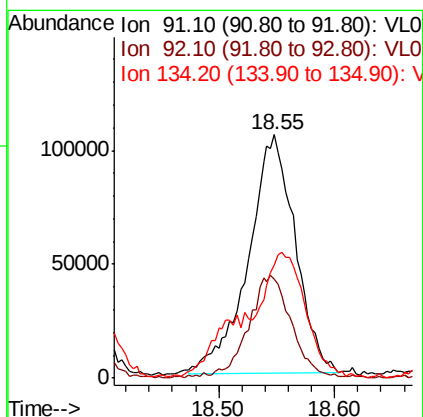
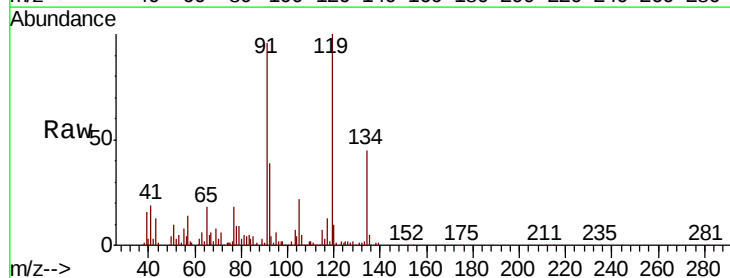
#69
 p-Isopropyltoluene
 Concen: 0.284 ppbv
 RT: 17.53 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 14 Apr 2022 23:25

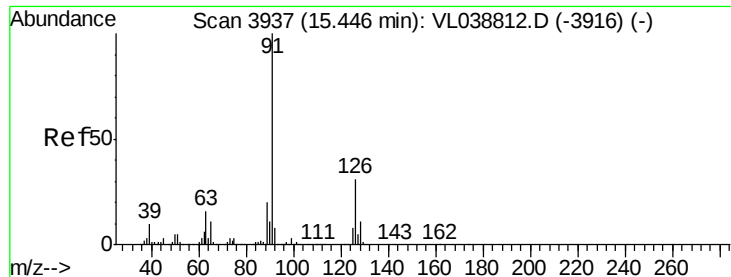
Tot Ion:	119	Resp:	134915
Ion	Ratio	Lower	Upper
119	100		
134	26.4	20.8	31.2
91	31.1	22.6	34.0



#70
 n-Butylbenzene
 Concen: 0.613 ppbv
 RT: 18.55 min Scan# 4902
 Delta R.T. 0.01 min
 Lab File: VL038930.D
 Acq: 14 Apr 2022 23:25

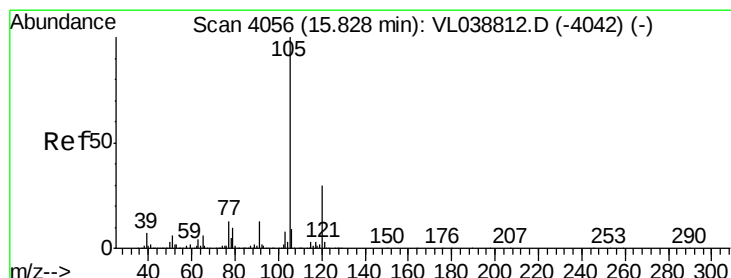
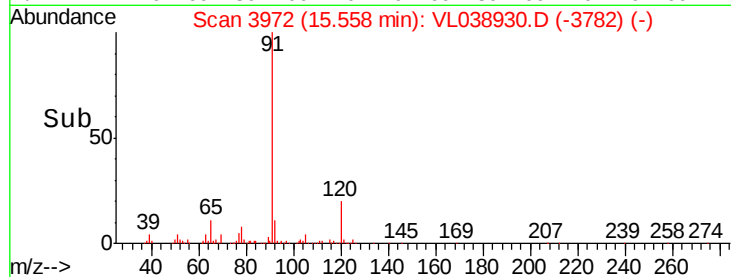
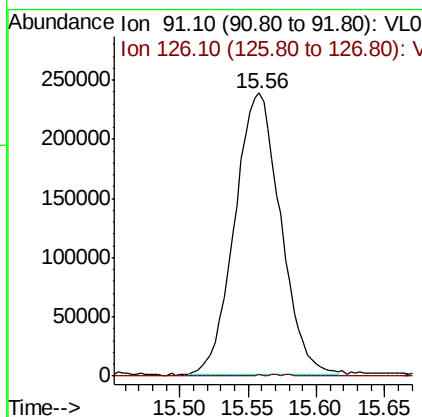
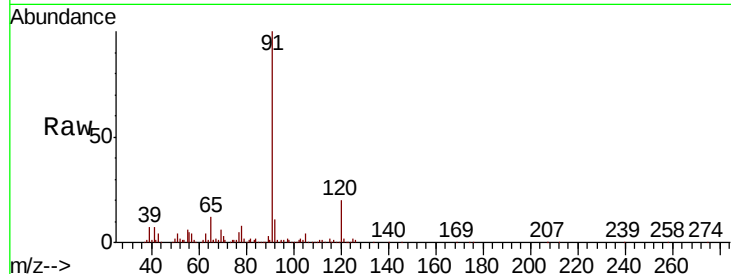
Tgt Ion:	91	Resp:	293441
Ion	Ratio	Lower	Upper
91	100		
92	39.9	44.6	66.8#
134	69.0	19.2	28.8#





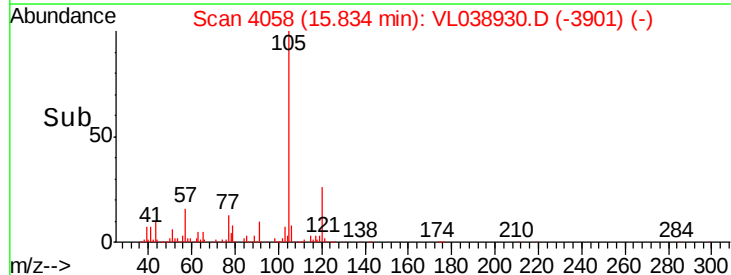
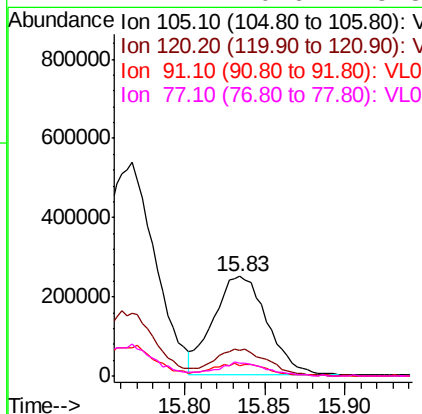
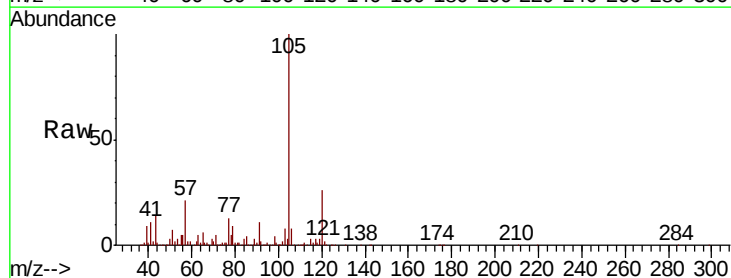
#71
 2-Chlorotoluene
 Concen: 1.584 ppbv
 RT: 15.56 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Apr 2022 23:25

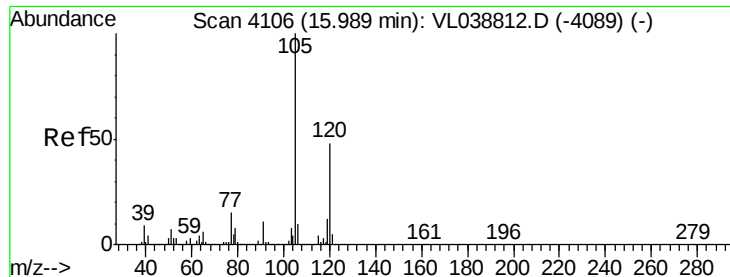
Tot Ion: 91 Resp: 553896
 Ion Ratio Lower Upper
 91 100
 126 0.5 13.0 51.8#



#72
 4-Ethyltoluene
 Concen: 1.550 ppbv
 RT: 15.83 min Scan# 4058
 Delta R.T. 0.01 min
 Lab File: VL038930.D
 Acq: 14 Apr 2022 23:25

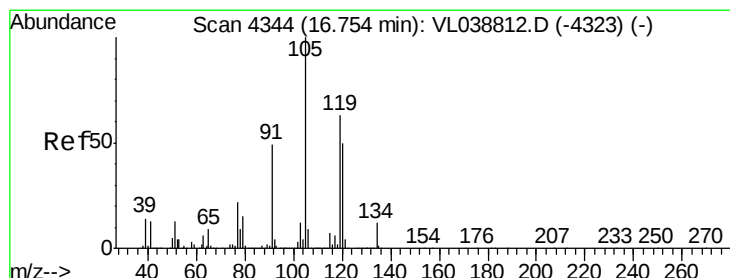
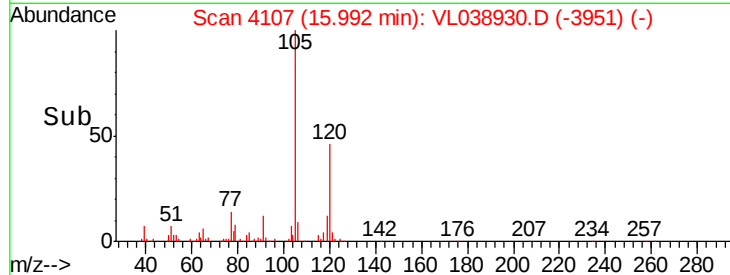
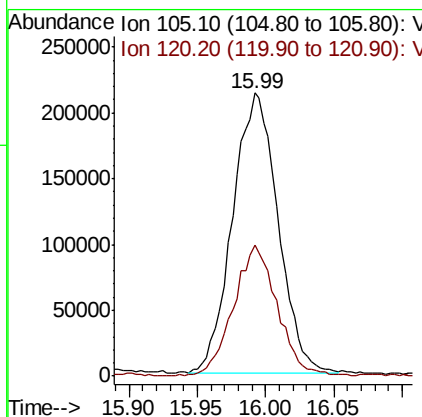
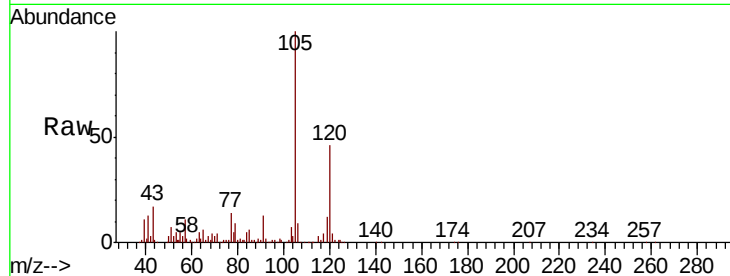
Tgt Ion: 105 Resp: 573428
 Ion Ratio Lower Upper
 105 100
 120 28.9 24.3 36.5
 91 11.8 9.4 14.2
 77 12.2 10.6 15.8





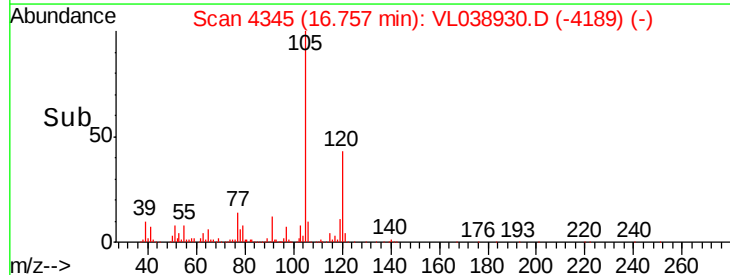
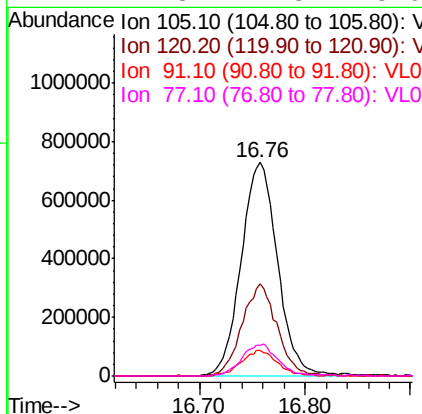
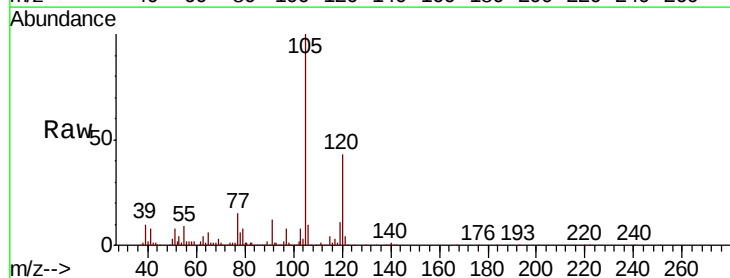
#73
 1,3,5-Trimethylbenzene
 Concen: 1.477 ppbv
 RT: 15.99 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 14 Apr 2022 23:25

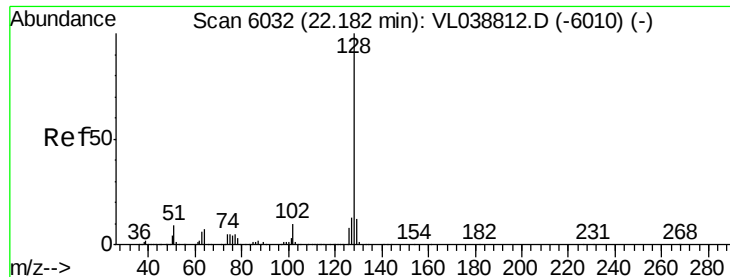
Tot Ion:105 Resp: 490748
 Ion Ratio Lower Upper
 105 100
 120 46.5 38.7 58.1



#74
 1,2,4-Trimethylbenzene
 Concen: 4.971 ppbv
 RT: 16.76 min Scan# 4345
 Delta R.T.: 0.00 min
 Lab File: VL038930.D
 Acq: 14 Apr 2022 23:25

Tgt Ion:105 Resp: 1746142
 Ion Ratio Lower Upper
 105 100
 120 42.9 39.8 59.8
 91 12.1 39.4 59.0#
 77 14.3 17.3 25.9#





#79

Naphthalene

Concen: 0.291 ppbv

RT: 22.18

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Apr 2022 23:25

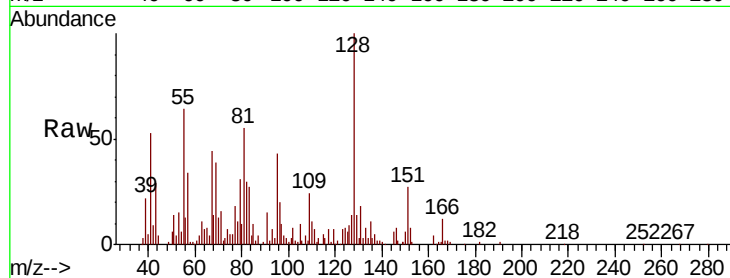
Tot Ion:128 Resp: 76559

Ion Ratio Lower Upper

128 100

127 12.6 10.6 15.8

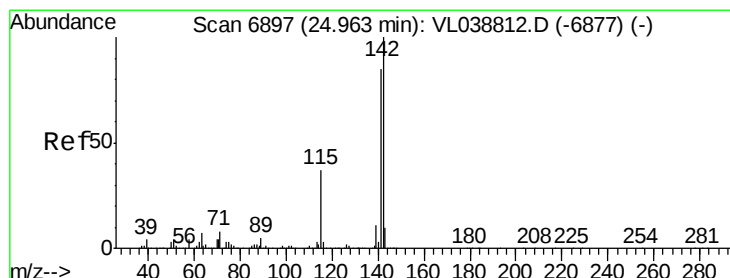
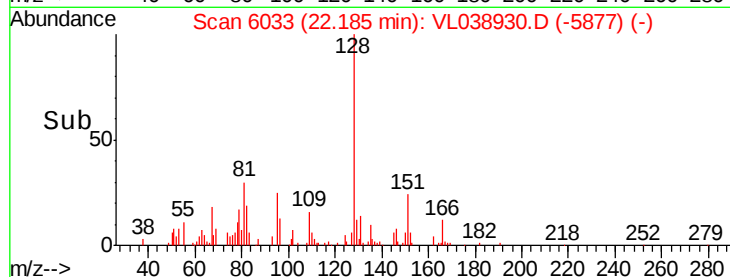
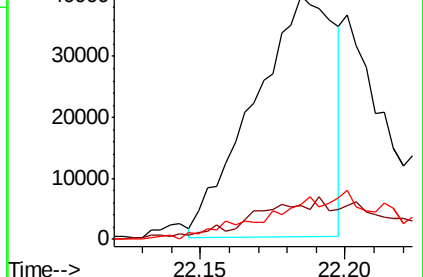
129 12.0 9.4 14.0



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.511 ppbv

RT: 24.97 min Scan# 6899

Delta R.T. 0.01 min

Lab File: VL038930.D

Acq: 14 Apr 2022 23:25

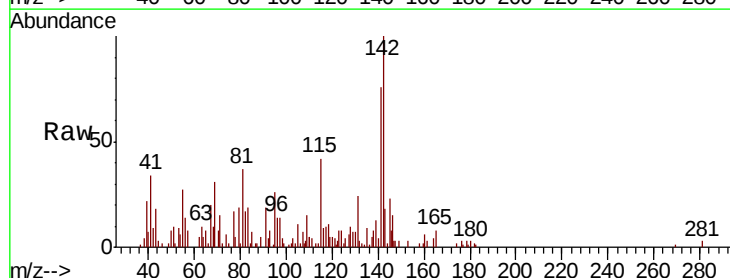
Tgt Ion:142 Resp: 33088

Ion Ratio Lower Upper

142 100

141 82.4 68.8 103.2

115 104.7 31.6 47.4#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

