

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110921\
 Data File : VL038004.D
 Acq On : 10 Nov 2021 7:18
 Operator : SY/AP
 Sample : M4598-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 10 07:49:29 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov 02 05:54:07 2021
 QLast Update : Tue Nov 02 05:54:07 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1457330	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4199860	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3549719	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2400735	9.30	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.00%

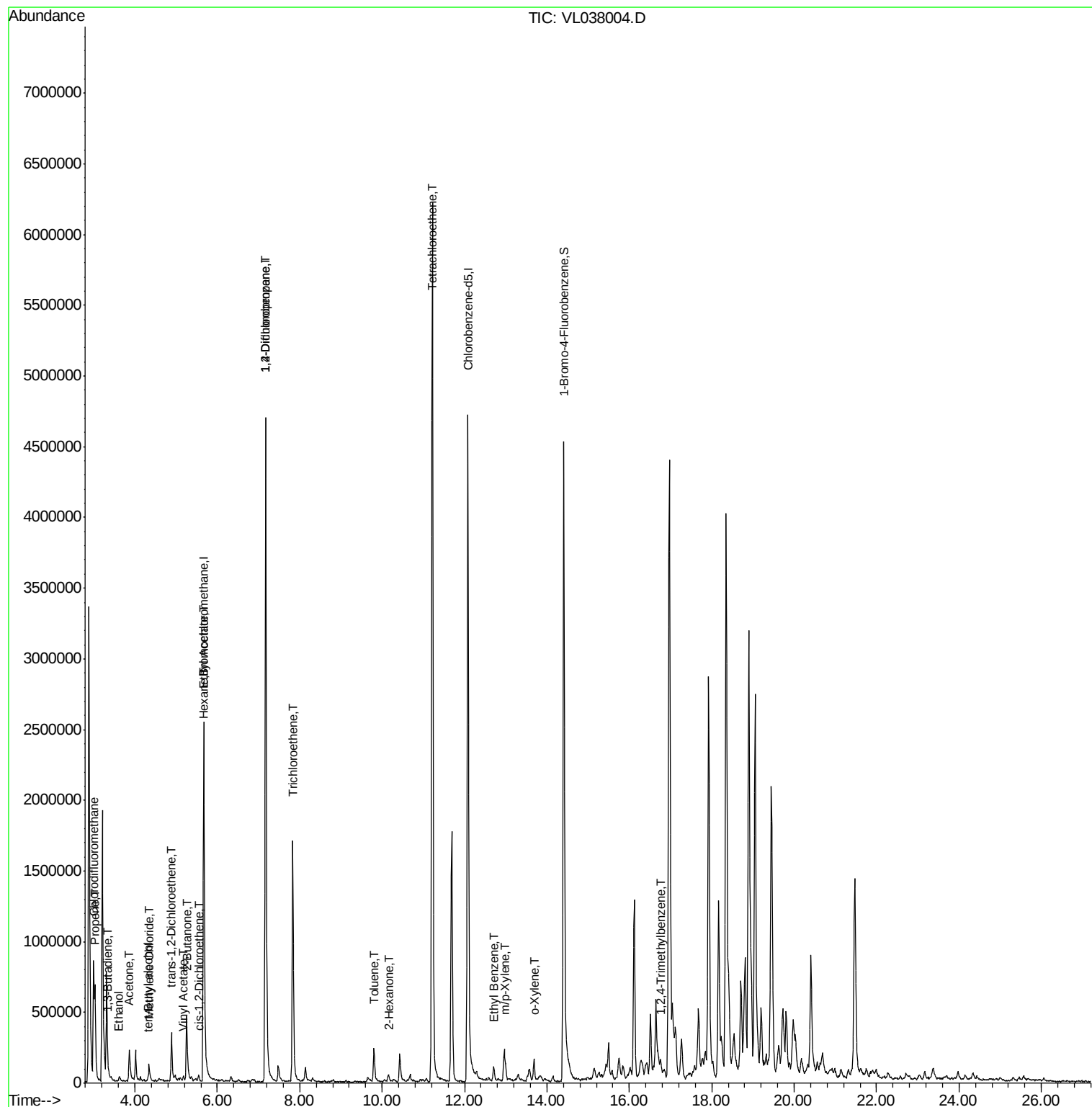
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	1295991	4.777	ppbv #	91
9) Propene	3.02	41	165402	1.700	ppbv	95
13) Ethanol	3.62	45	16644	1.696	ppbv #	1
15) Acetone	3.86	43	253940	2.109	ppbv #	42
16) 1,3-Butadiene	3.35	39	8115	0.086	ppbv #	10
17) tert-Butyl alcohol	4.31	59	5089	0.041	ppbv #	1
20) Methylene Chloride	4.35	84	15010	0.227	ppbv #	69
22) trans-1,2-Dichloroethene	4.89	96	119838	1.644	ppbv	96
23) Vinyl Acetate	5.18	43	15825	0.087	ppbv #	46
25) Ethyl Acetate	5.68	43	17745	0.050	ppbv #	87
26) Hexane	5.68	57	44478	0.262	ppbv #	48
31) cis-1,2-Dichloroethene	5.55	61	16252	0.105	ppbv #	85
34) 2-Butanone	5.25	43	722624	4.643	ppbv	99
38) Trichloroethene	7.83	130	639102	4.502	ppbv	98
39) 1,2-Dichloropropane	7.17	63	973725	7.566	ppbv #	28
51) 2-Hexanone	10.15	43	21028	0.244	ppbv #	30
52) Tetrachloroethene	11.22	164	1869249	14.407	ppbv	96
53) Toluene	9.81	91	194873	0.531	ppbv	98
58) Ethyl Benzene	12.70	91	53727	0.124	ppbv	93
59) m/p-Xylene	12.99	91	55223	0.143	ppbv #	30
60) o-Xylene	13.68	91	78419	0.216	ppbv	100
74) 1,2,4-Trimethylbenzene	16.76	105	31129	0.076	ppbv #	75

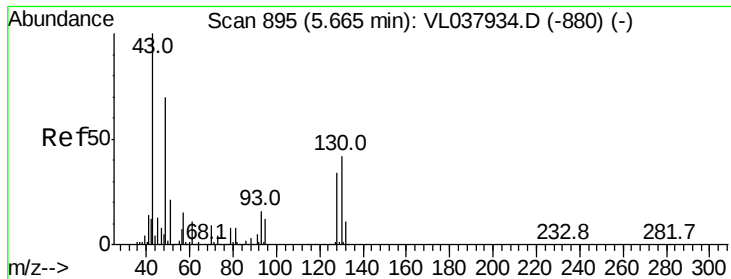
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Nov 02 05:54:07 2021
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67

Delta R.T. MSVOA_L

Lab File:

Acq: 10 Nov 2021 7:18

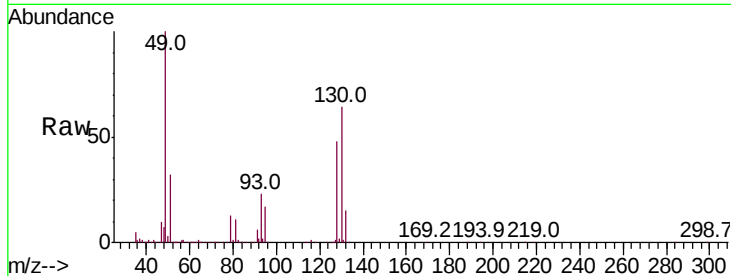
Tot Ion: 49 Resp: 1457330

Ion Ratio Lower Upper

49 100

128 52.1 27.0 81.0

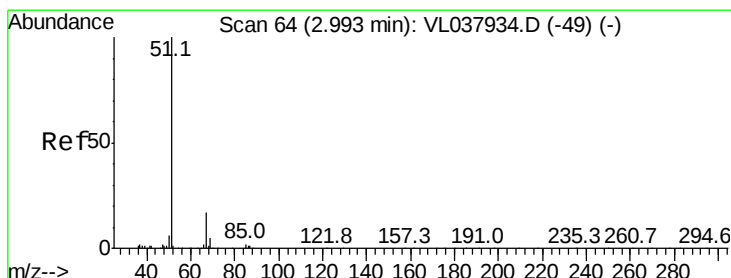
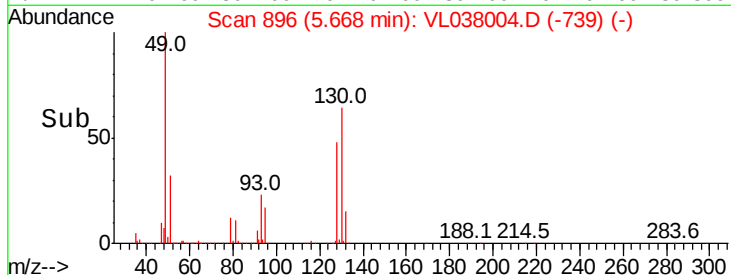
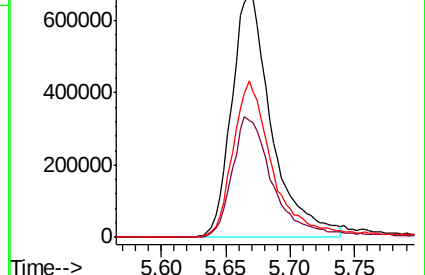
130 66.7 33.4 100.2



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#3

Chlorodifluoromethane

Concen: 4.777 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL038004.D

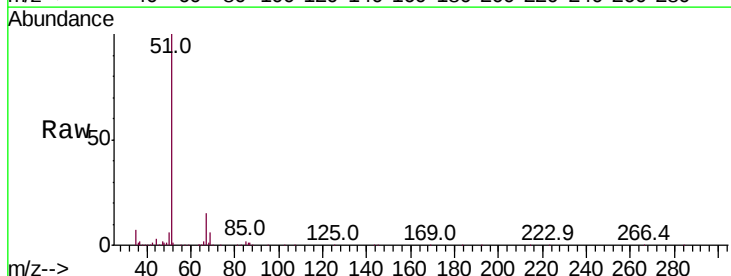
Acq: 10 Nov 2021 7:18

Tgt Ion: 51 Resp: 1295991

Ion Ratio Lower Upper

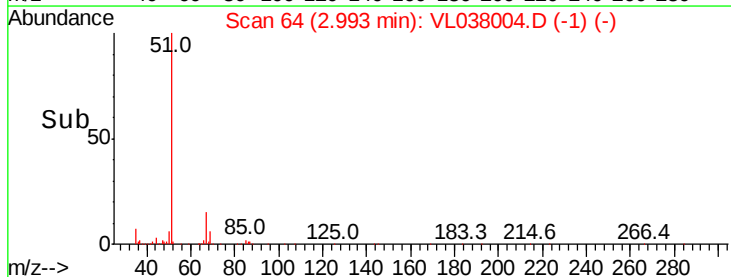
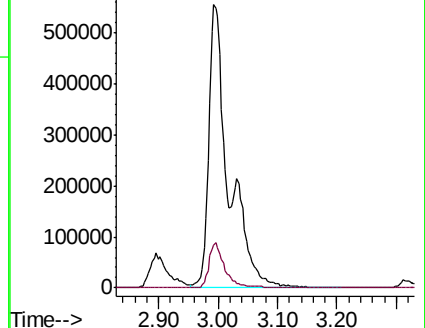
51 100

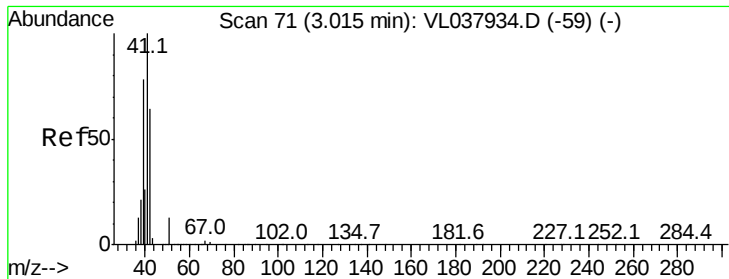
67 12.7 13.4 20.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 1.700 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

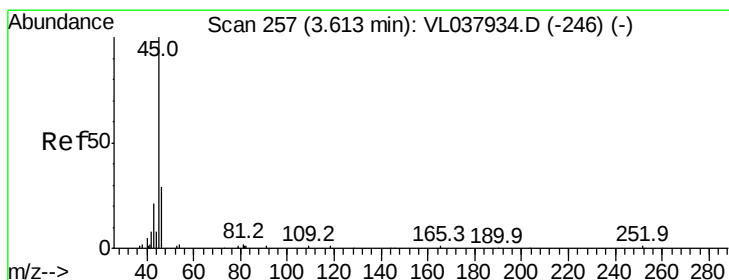
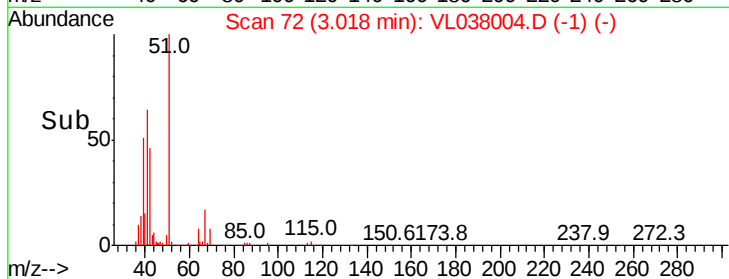
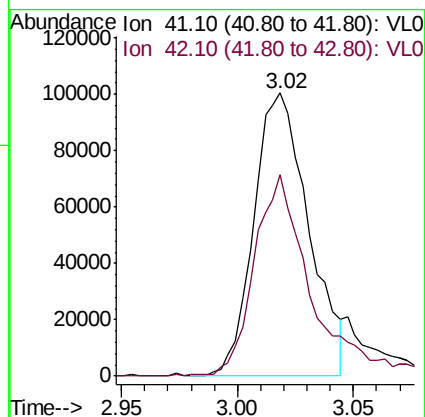
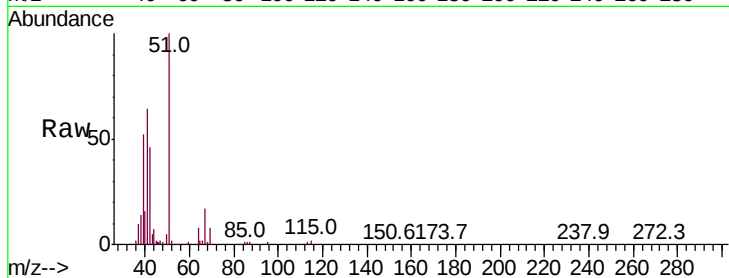
Acq: 10 Nov 2021 7:18

Tot Ion: 41 Resp: 165402

Ion Ratio Lower Upper

41 100

42 76.0 57.6 86.4



#13

Ethanol

Concen: 1.696 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.00 min

Lab File: VL038004.D

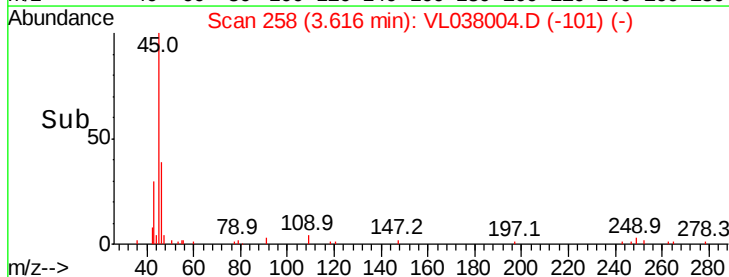
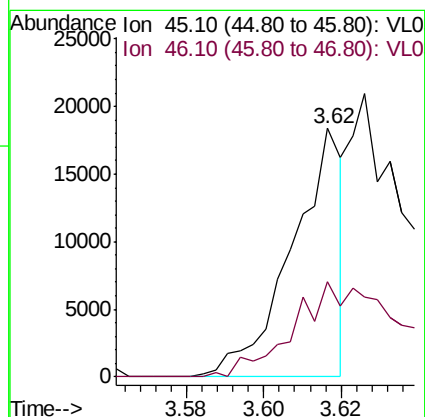
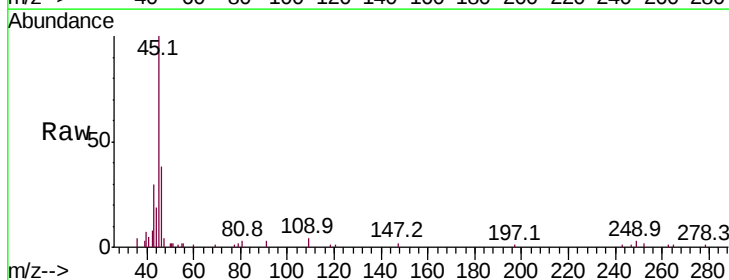
Acq: 10 Nov 2021 7:18

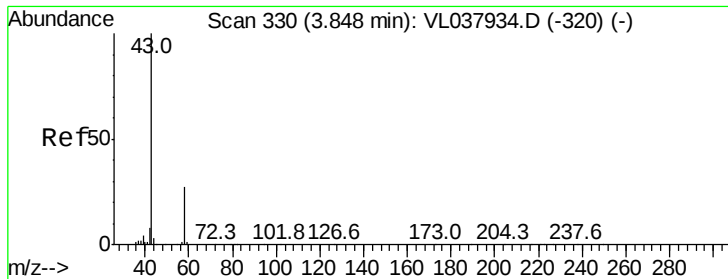
Tgt Ion: 45 Resp: 16644

Ion Ratio Lower Upper

45 100

46 115.5 17.4 69.8#





#15

Acetone

Concen: 2.109 ppbv

RT: 3.86 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

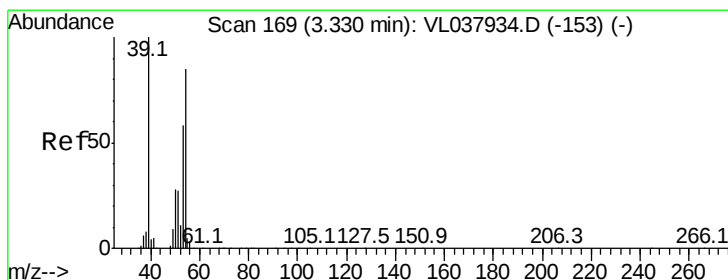
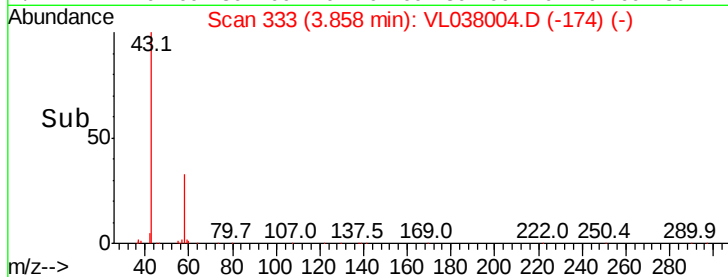
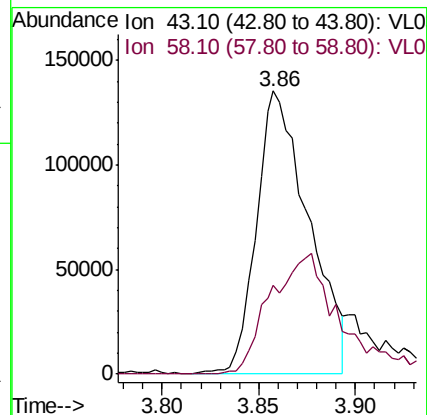
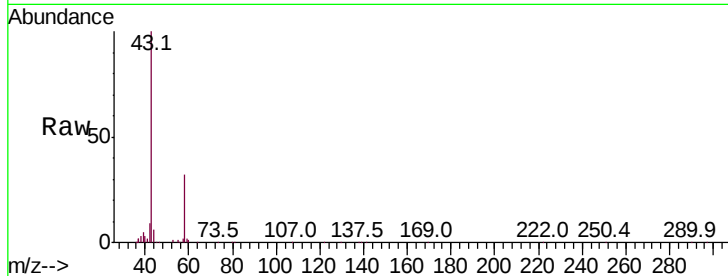
Acq: 10 Nov 2021 7:18

Tot Ion: 43 Resp: 253940

Ion Ratio Lower Upper

43 100

58 60.2 23.3 34.9#



#16

1,3-Butadiene

Concen: 0.086 ppbv

RT: 3.35 min Scan# 175

Delta R.T. 0.02 min

Lab File: VL038004.D

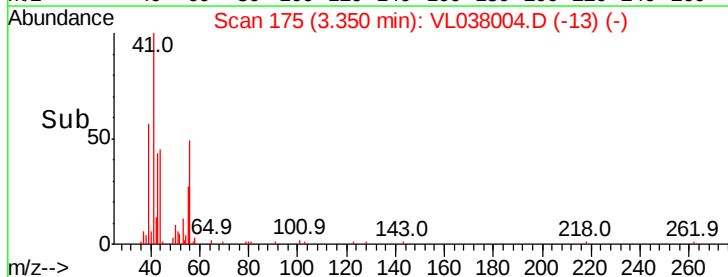
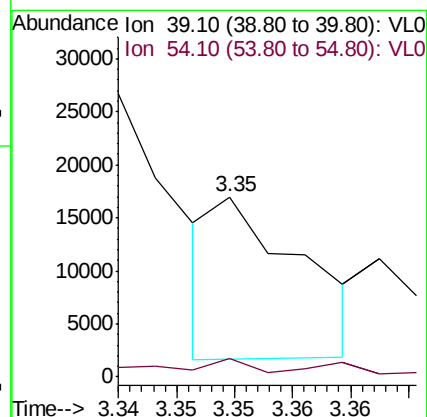
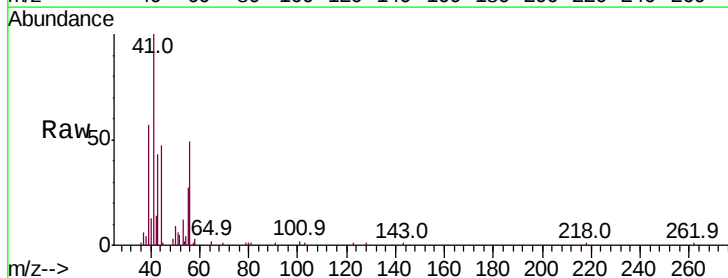
Acq: 10 Nov 2021 7:18

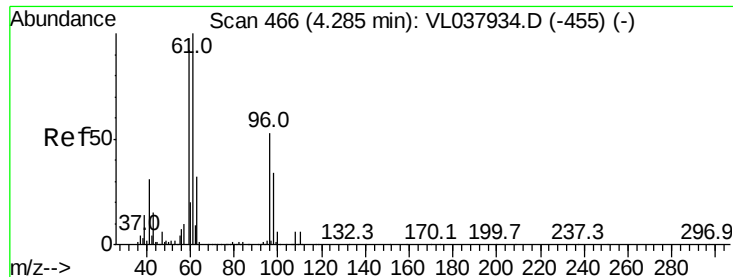
Tgt Ion: 39 Resp: 8115

Ion Ratio Lower Upper

39 100

54 0.0 62.6 93.8#





#17

tert-Butyl alcohol

Concen: 0.041 ppbv

RT: 4.31 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

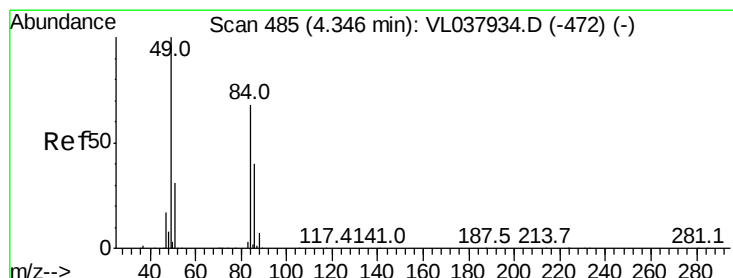
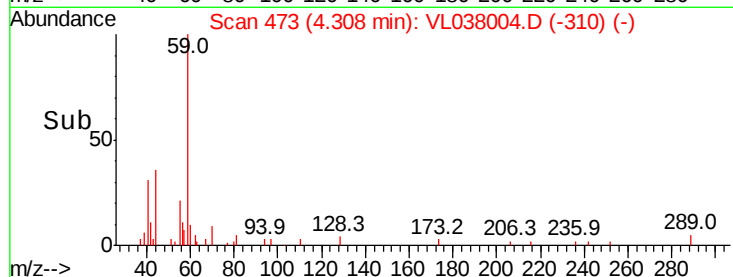
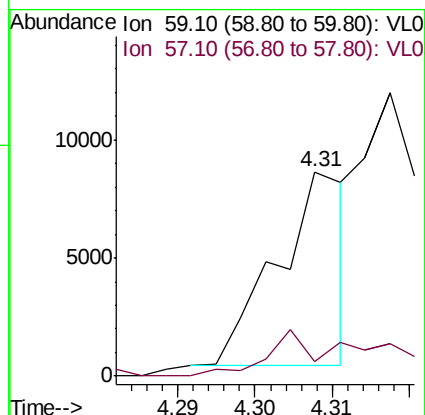
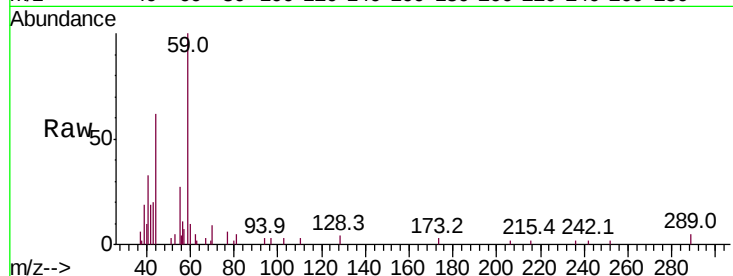
Acq: 10 Nov 2021 7:18

Tot Ion: 59 Resp: 5089

Ion Ratio Lower Upper

59 100

57 64.4 8.9 13.3#



#20

Methylene Chloride

Concen: 0.227 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.00 min

Lab File: VL038004.D

Acq: 10 Nov 2021 7:18

Tgt Ion: 84 Resp: 15010

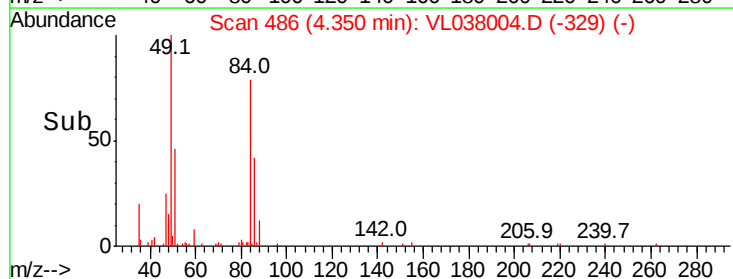
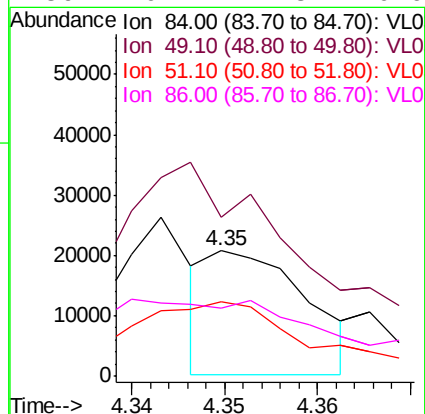
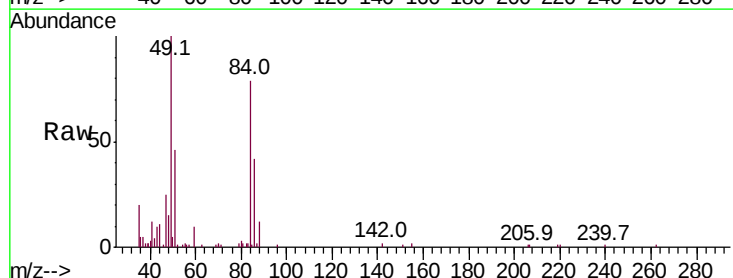
Ion Ratio Lower Upper

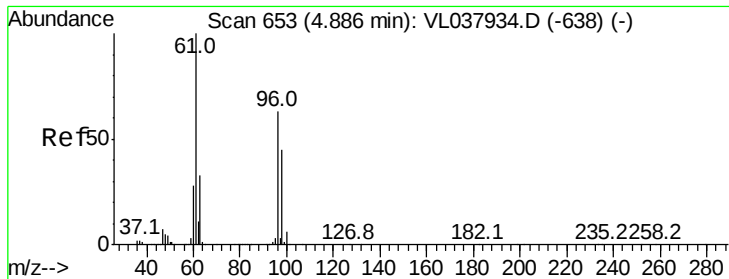
84 100

49 103.8 117.5 176.3#

51 61.0 35.9 53.9#

86 40.1 47.3 70.9#





#22

trans-1,2-Dichloroethene

Concen: 1.644 ppbv

RT: 4.89 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 10 Nov 2021 7:18

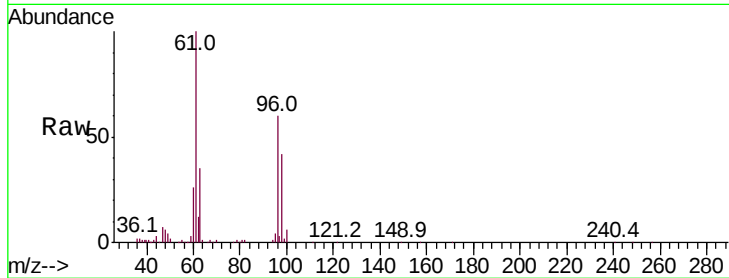
Tot Ion: 96 Resp: 119838

Ion Ratio Lower Upper

96 100

61 167.2 127.8 191.6

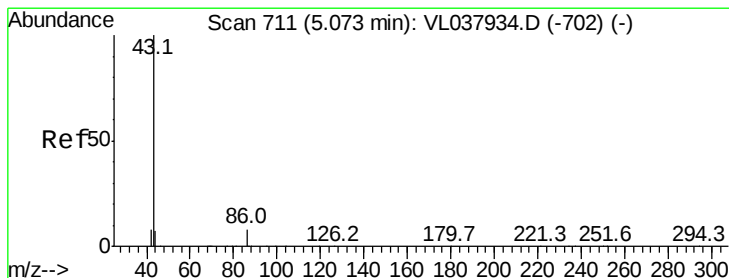
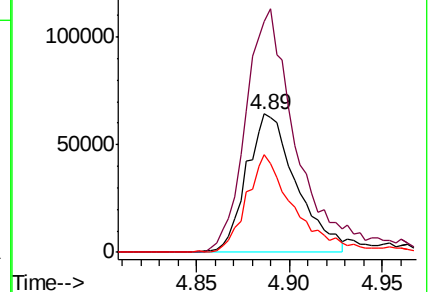
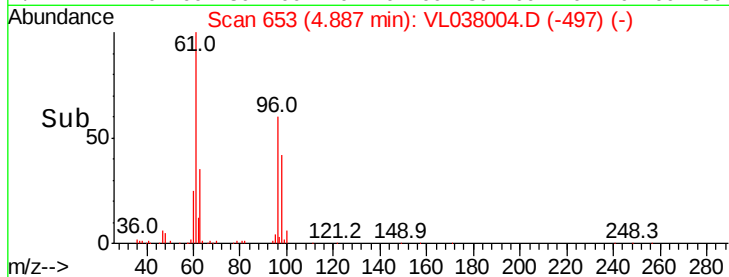
98 70.4 56.9 85.3



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#23

Vinyl Acetate

Concen: 0.087 ppbv

RT: 5.18 min Scan# 743

Delta R.T. 0.10 min

Lab File: VL038004.D

Acq: 10 Nov 2021 7:18

Tgt Ion: 43 Resp: 15825

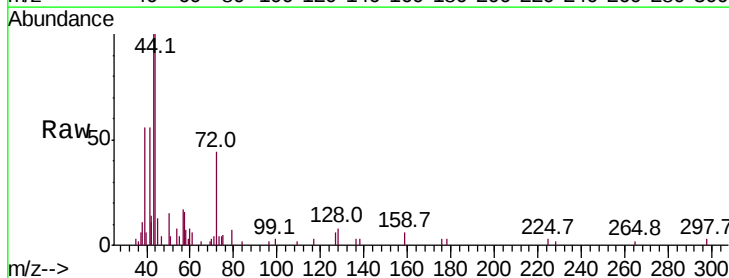
Ion Ratio Lower Upper

43 100

86 0.0 5.5 8.3#

42 16.3 7.4 11.2#

44 55.5 4.7 7.1#

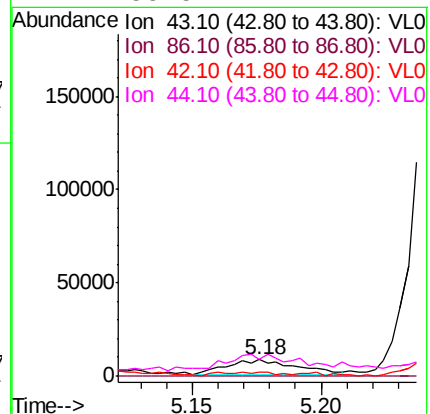
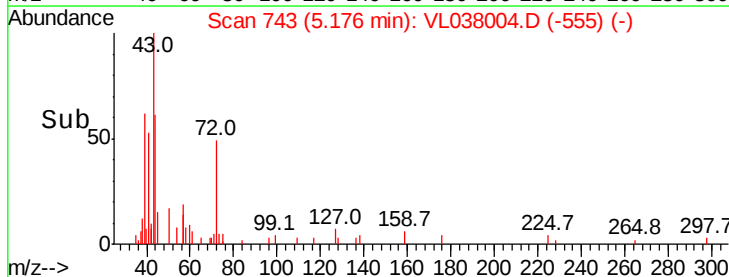


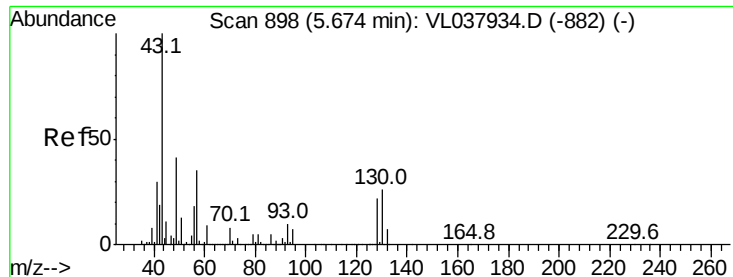
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

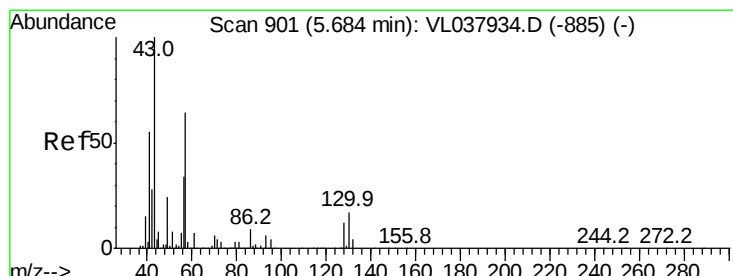
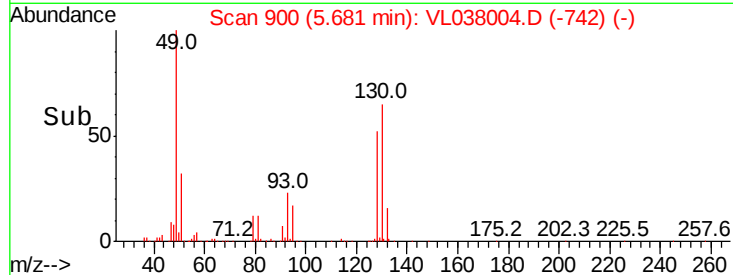
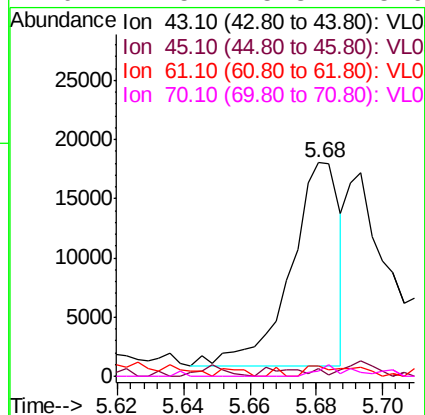
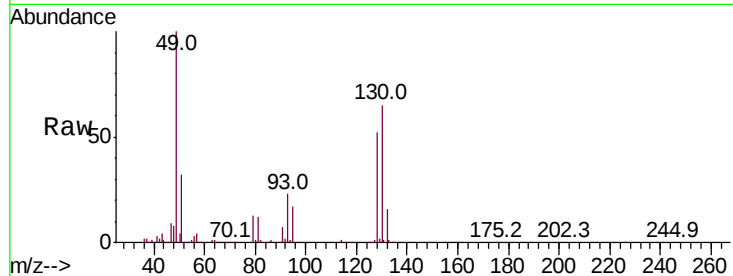
Ion 44.10 (43.80 to 44.80): VL0





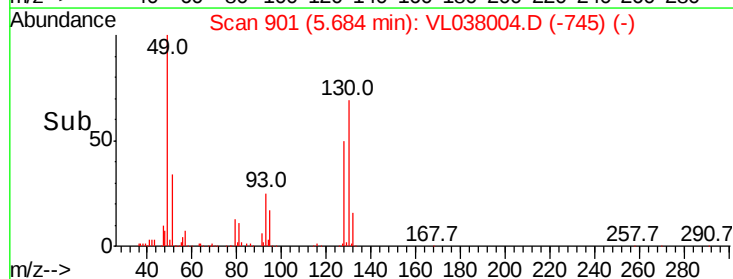
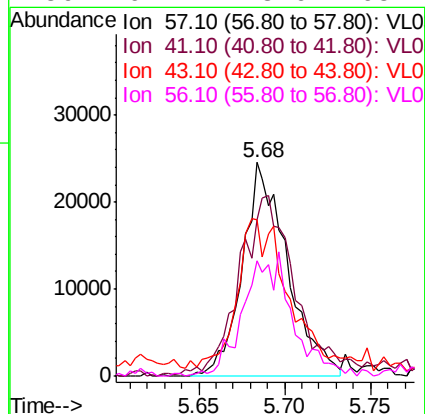
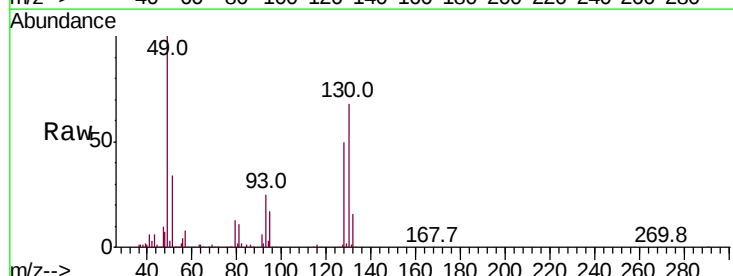
#25
Ethyl Acetate
Concen: 0.050 ppbv
RT: 5.68 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 10 Nov 2021 7:18

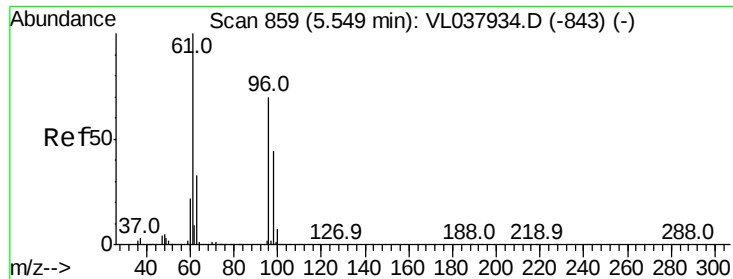
Tot Ion:	43	Resp:	17745
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.1	12.1#
61	9.1	8.1	12.1
70	4.5	5.8	8.6#



#26
Hexane
Concen: 0.262 ppbv
RT: 5.68 min Scan# 901
Delta R.T.: 0.00 min
Lab File: VL038004.D
Acq: 10 Nov 2021 7:18

Tgt Ion:	57	Resp:	44478
Ion	Ratio	Lower	Upper
57	100		
41	110.5	71.0	106.6#
43	97.1	173.0	259.6#
56	62.7	43.6	65.4





#31

cis-1,2-Dichloroethene

Concen: 0.105 ppbv

RT: 5.55

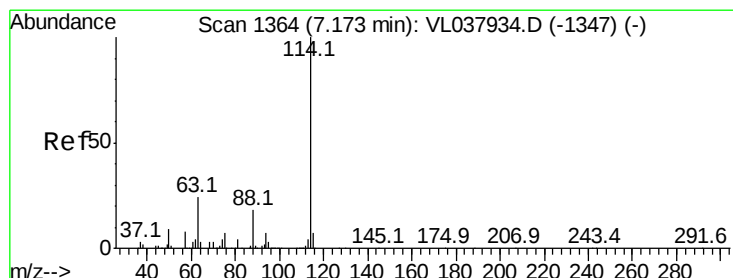
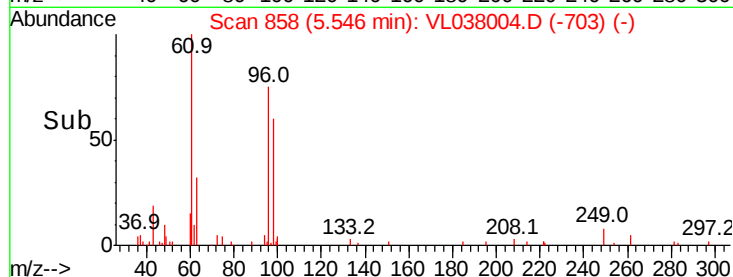
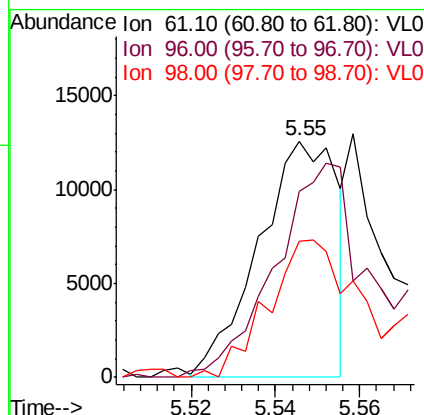
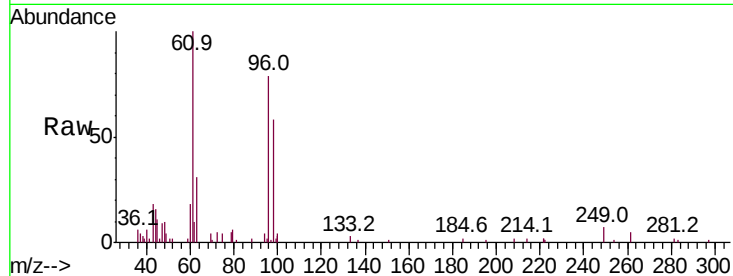
Instrument: MSVOA_1

Delta R.T.:

Lab File: ClientSampleId:

Acq: 10 Nov 2021 7:18

Tot Ion	61	Resp	16252
Ion Ratio	100	Lower	Upper
61	100		
96	77.0	55.6	83.4
98	58.5	34.9	52.3



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

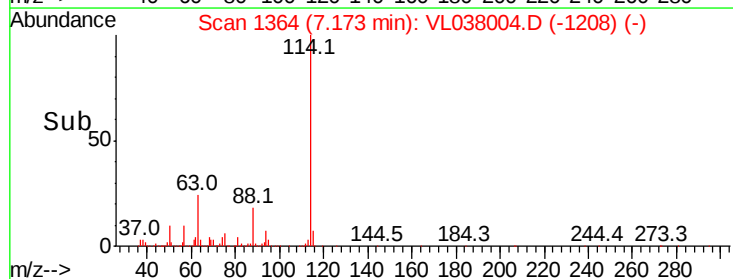
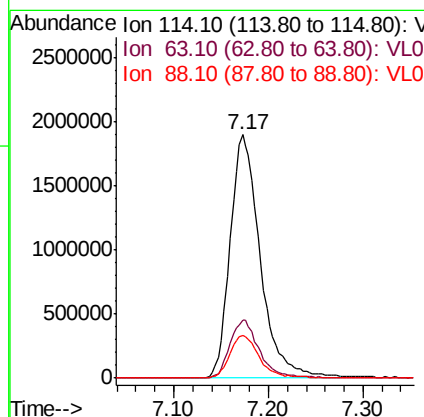
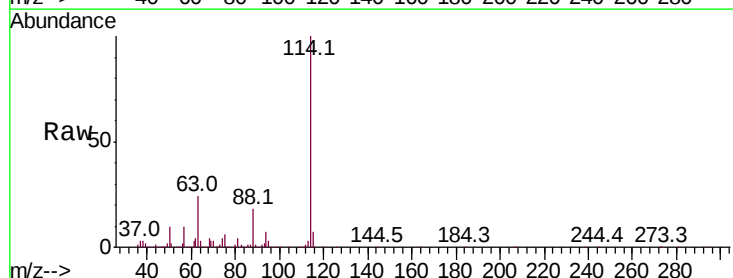
RT: 7.17 min Scan# 1364

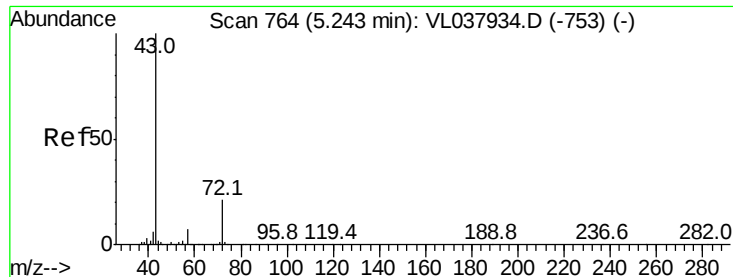
Delta R.T. 0.00 min

Lab File: VL038004.D

Acq: 10 Nov 2021 7:18

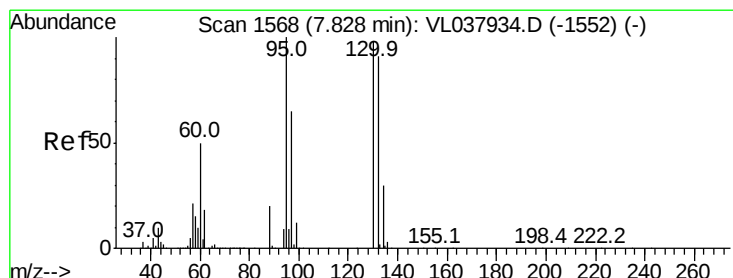
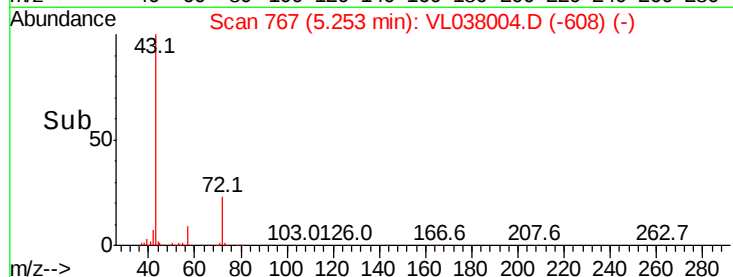
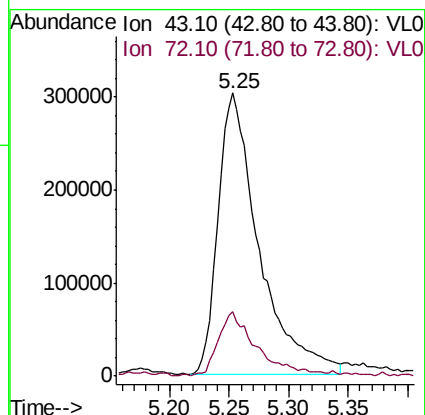
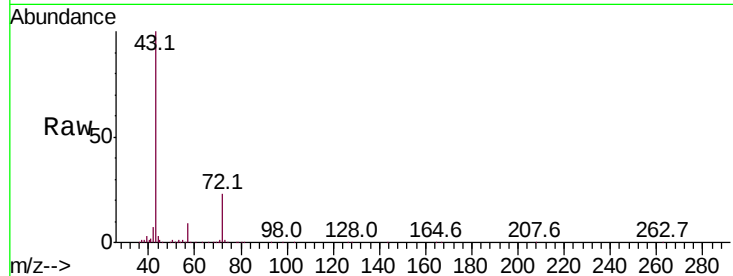
Tgt Ion	114	Resp	4199860
Ion Ratio	100	Lower	Upper
114	100		
63	23.8	19.4	29.0
88	17.7	14.2	21.4





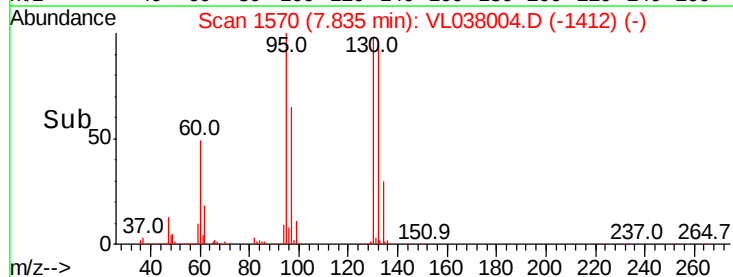
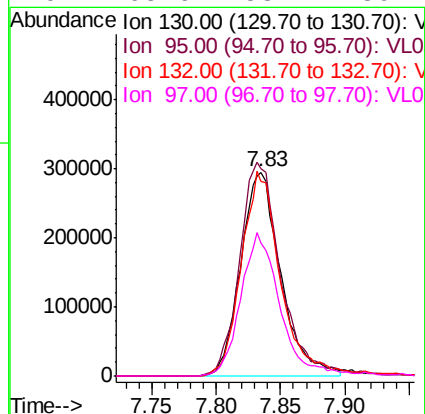
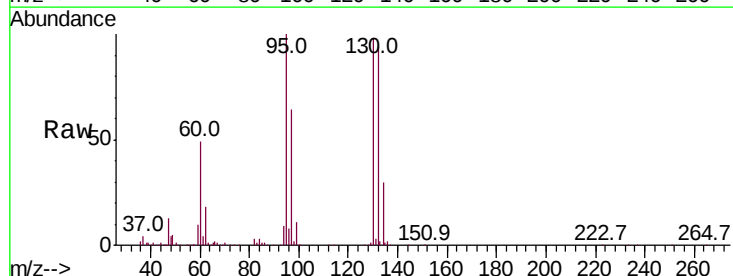
#34
2-Butanone
Concen: 4.643 ppbv
RT: 5.25
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 10 Nov 2021 7:18

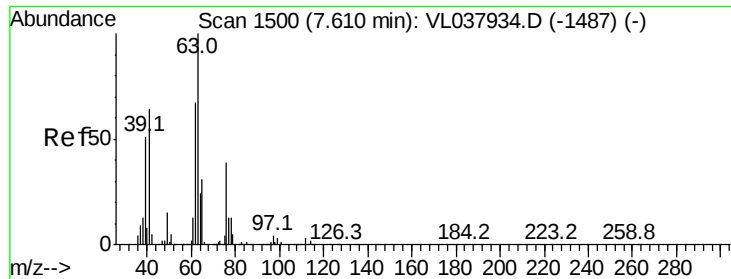
Tot Ion: 43 Resp: 722624
Ion Ratio Lower Upper
43 100
72 22.3 18.3 27.5



#38
Trichloroethene
Concen: 4.502 ppbv
RT: 7.83 min Scan# 1570
Delta R.T. 0.01 min
Lab File: VL038004.D
Acq: 10 Nov 2021 7:18

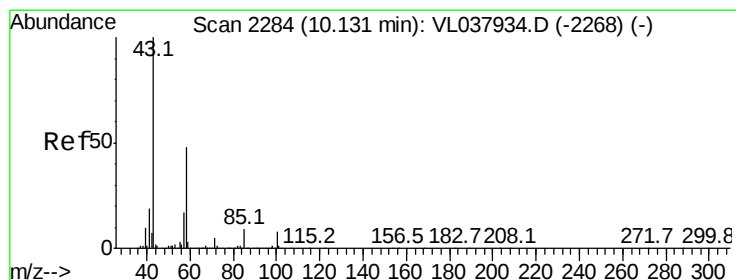
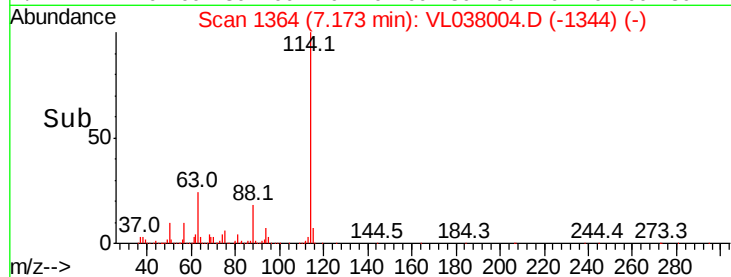
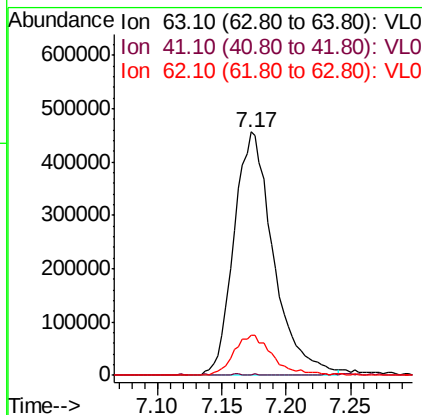
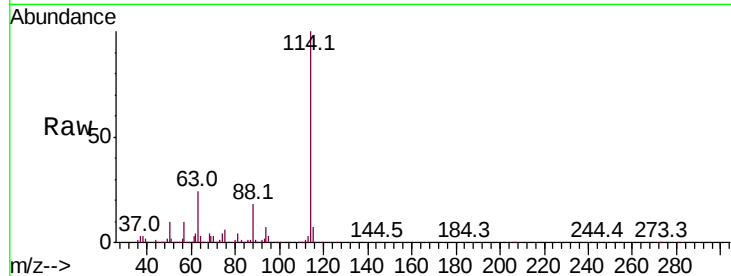
Tgt Ion: 130 Resp: 639102
Ion Ratio Lower Upper
130 100
95 101.8 81.8 122.8
132 95.8 74.2 111.2
97 65.6 53.4 80.2





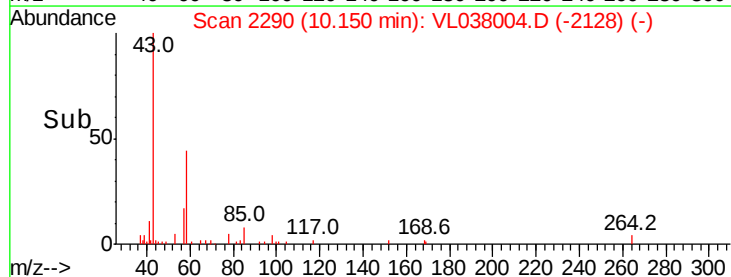
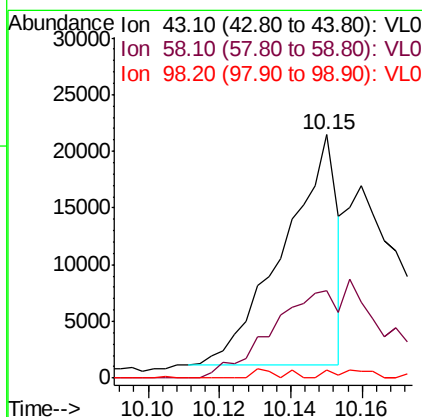
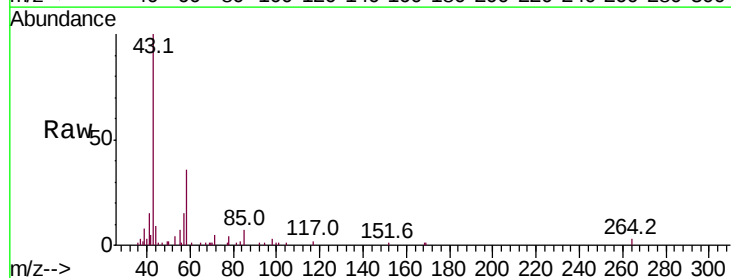
#39
 1,2-Dichloropropane
 Concen: 7.566 ppbv
 RT: 7.17
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 10 Nov 2021 7:18

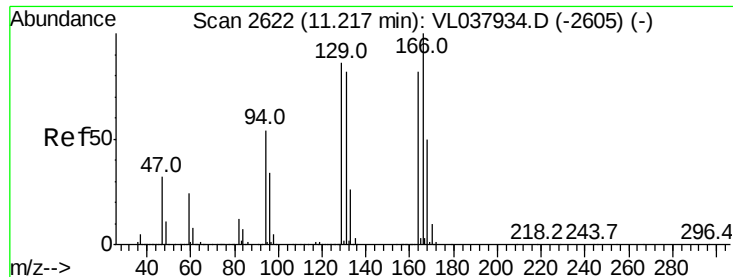
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	51.6	77.4#
62	16.3	53.5	80.3#



#51
 2-Hexanone
 Concen: 0.244 ppbv
 RT: 10.15 min Scan# 2290
 Delta R.T.: 0.02 min
 Lab File: VL038004.D
 Acq: 10 Nov 2021 7:18

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.6	57.8#
98	2.1	1.0	1.4#





#52

Tetrachloroethene

Concen: 14.407 ppbv

RT: 11.22

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 10 Nov 2021 7:18

Tot Ion:164 Resp: 1869249

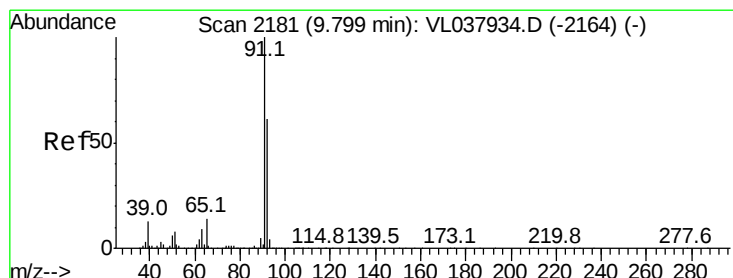
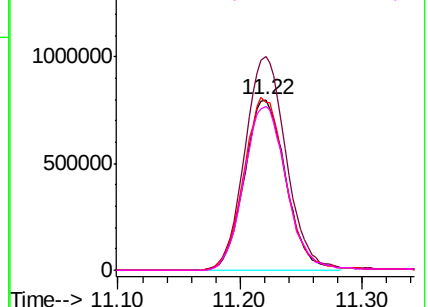
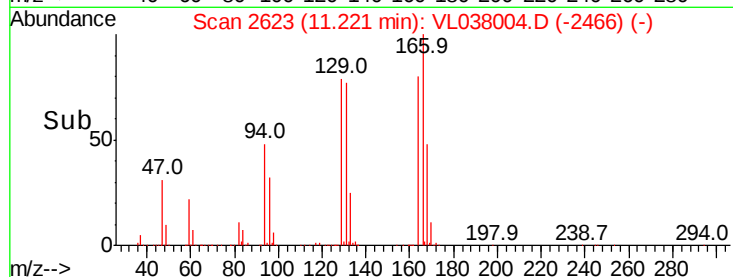
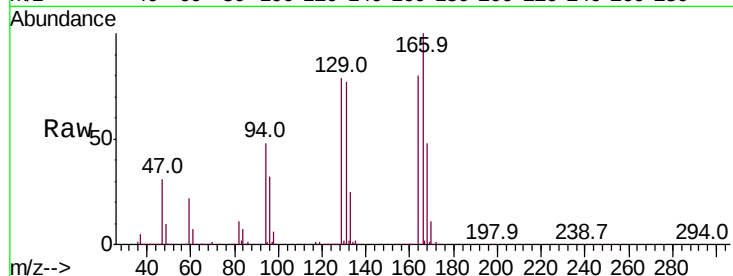
Ion Ratio Lower Upper

164 100

166 125.3 97.6 146.4

129 98.5 84.2 126.2

131 96.0 79.6 119.4



#53

Toluene

Concen: 0.531 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. 0.01 min

Lab File: VL038004.D

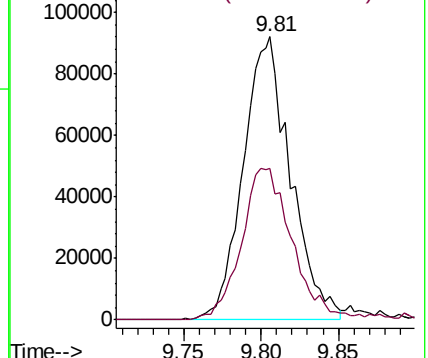
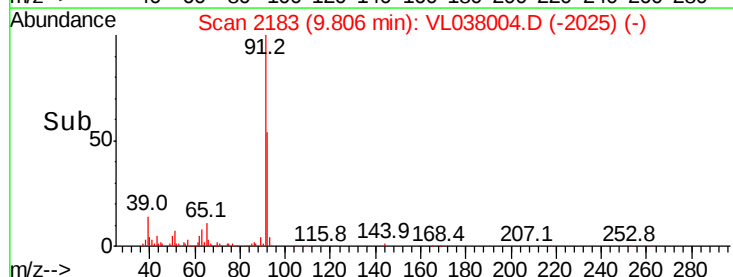
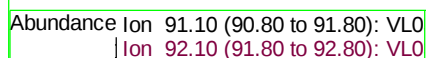
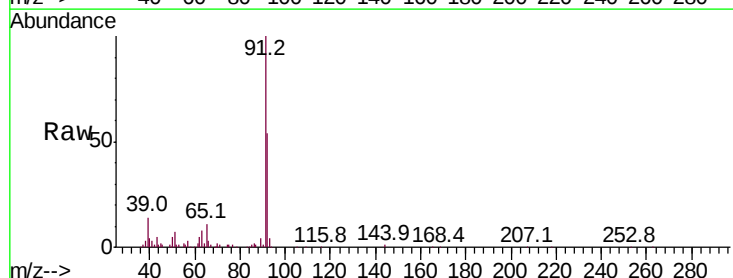
Acq: 10 Nov 2021 7:18

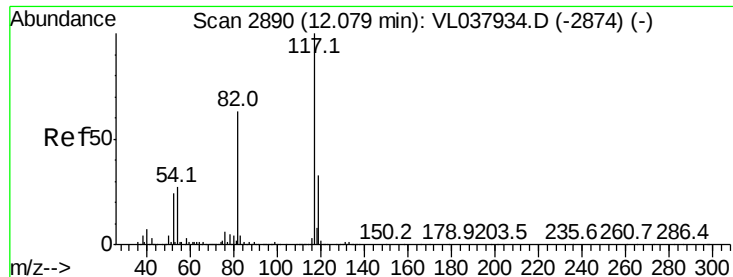
Tgt Ion: 91 Resp: 194873

Ion Ratio Lower Upper

91 100

92 58.9 48.2 72.4

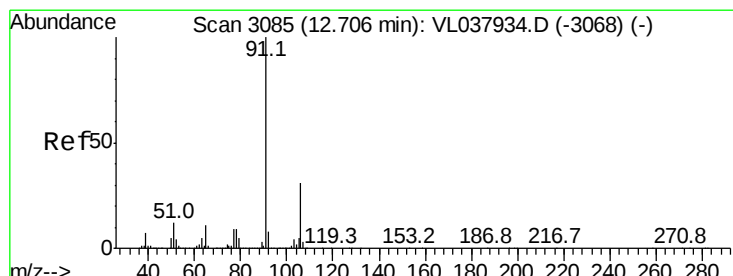
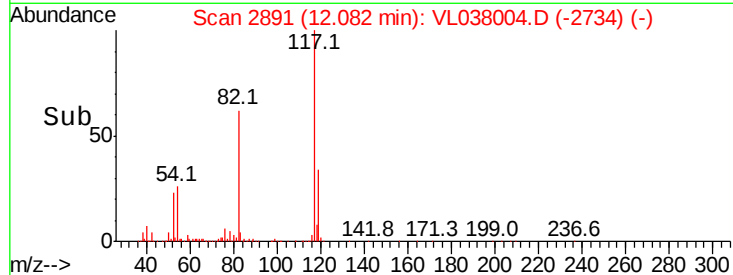
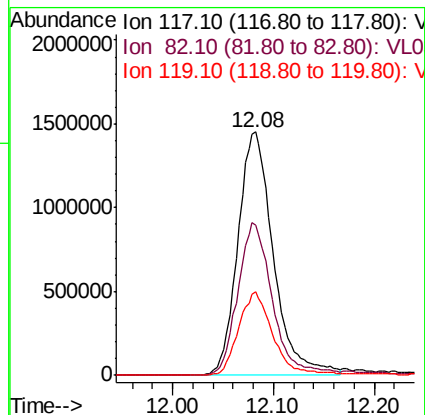
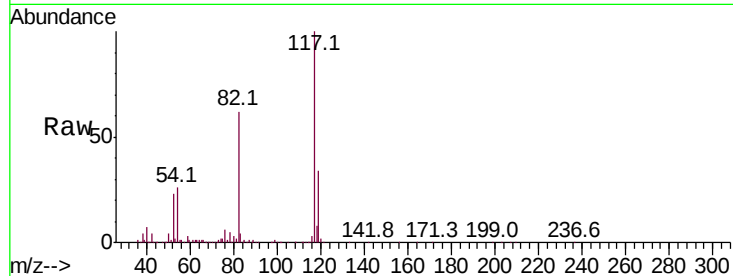




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 10 Nov 2021 7:18

Tot Ion: 117 Resp: 3549719

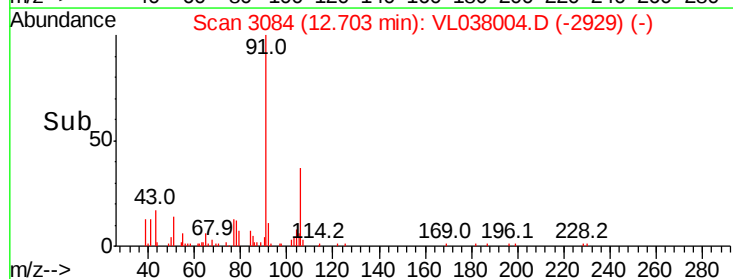
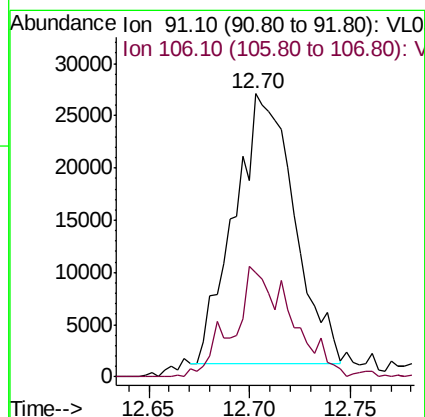
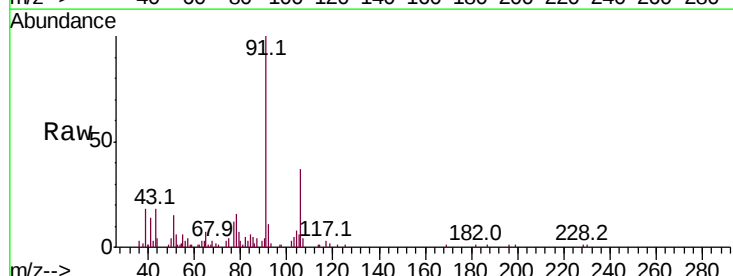
Ion	Ratio	Lower	Upper
117	100		
82	64.7	51.0	76.6
119	34.2	26.9	40.3

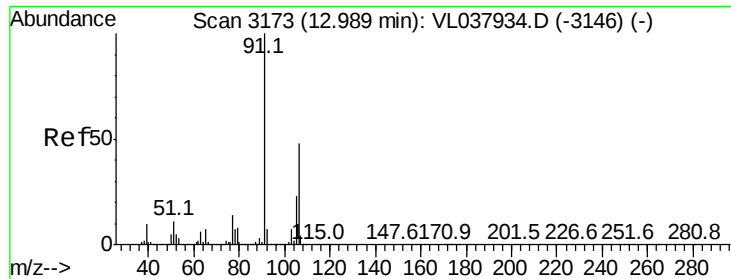


#58
Ethyl Benzene
Concen: 0.124 ppbv
RT: 12.70 min Scan# 3084
Delta R.T.: -0.00 min
Lab File: VL038004.D
Acq: 10 Nov 2021 7:18

Tgt Ion: 91 Resp: 53727

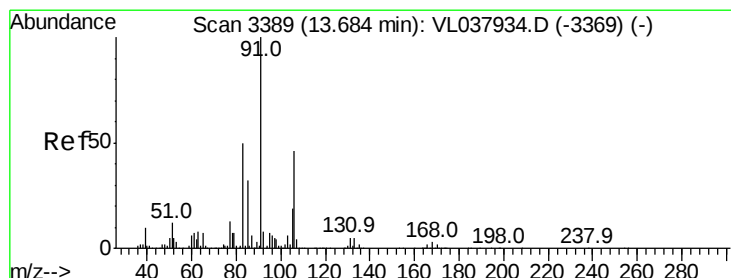
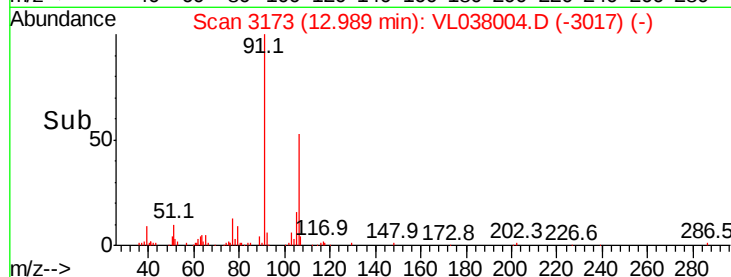
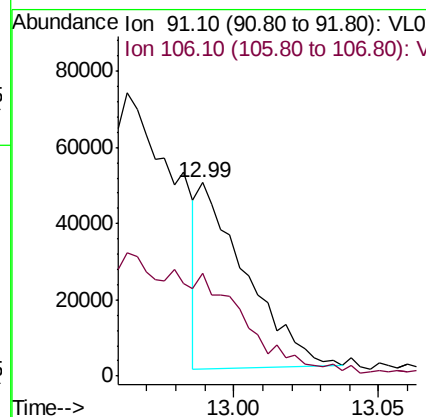
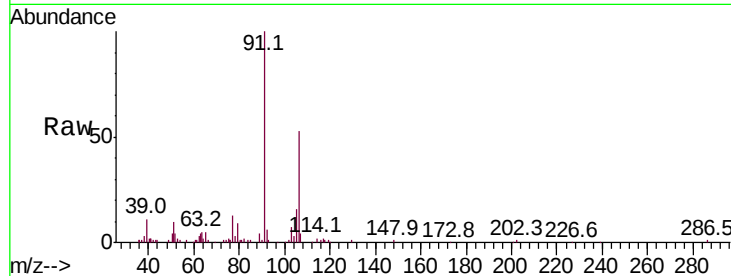
Ion	Ratio	Lower	Upper
91	100		
106	35.4	25.1	37.7





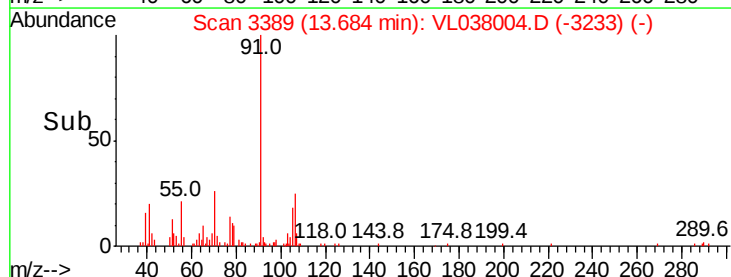
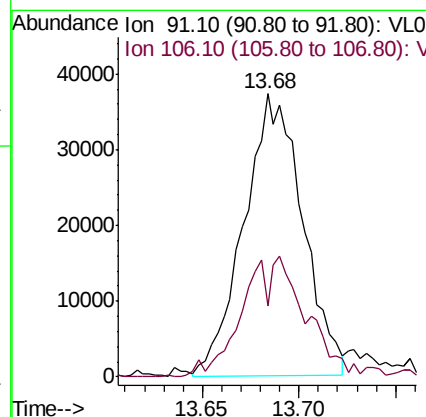
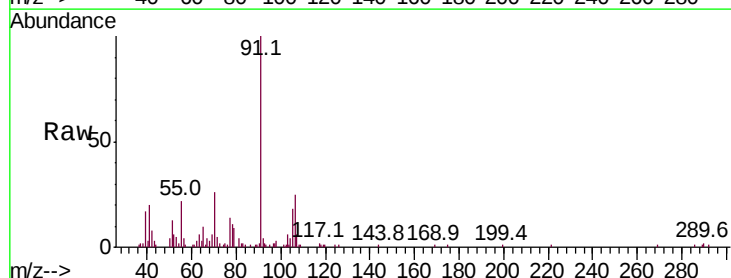
#59
m/p-Xylene
Concen: 0.143 ppbv
RT: 12.99 min
Delta R.T. MSVOA.L
Lab File: ClientSampleId :
Acq: 10 Nov 2021 7:18

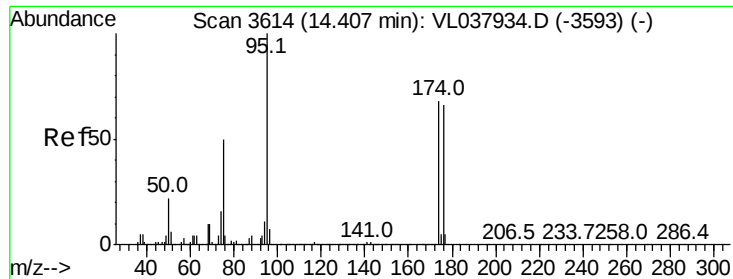
Tot Ion: 91 Resp: 55223
Ion Ratio Lower Upper
91 100
106 0.0 37.1 55.7#



#60
o-Xylene
Concen: 0.216 ppbv
RT: 13.68 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VL038004.D
Acq: 10 Nov 2021 7:18

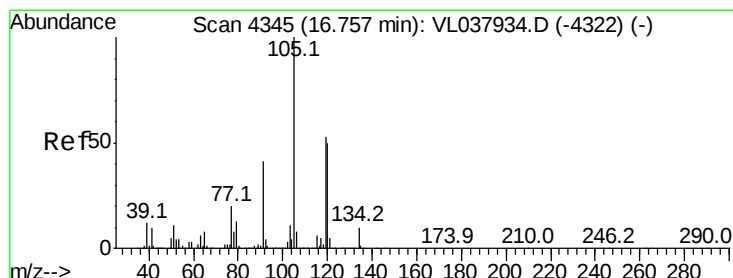
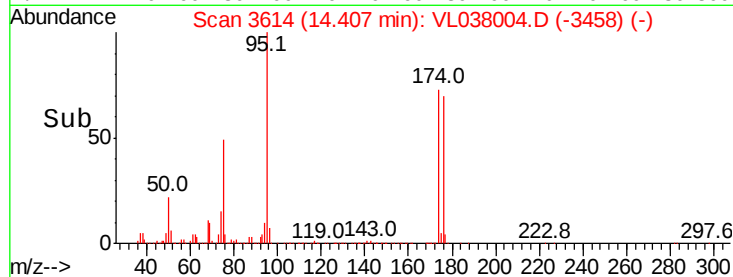
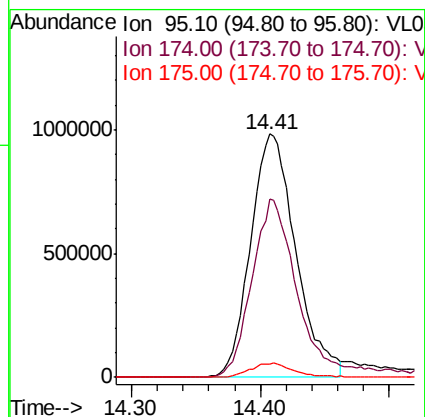
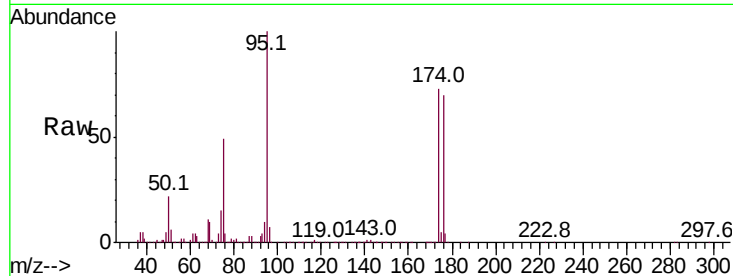
Tgt Ion: 91 Resp: 78419
Ion Ratio Lower Upper
91 100
106 47.1 23.5 70.6





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.304 ppbv
 RT: 14.41 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 10 Nov 2021 7:18

Tot Ion:	95	Resp:	2400735
Ion	Ratio	Lower	Upper
95	100		
174	78.9	58.3	87.5
175	5.8	4.6	6.8



#74
 1,2,4-Trimethylbenzene
 Concen: 0.076 ppbv
 RT: 16.76 min Scan# 4345
 Delta R.T. 0.00 min
 Lab File: VL038004.D
 Acq: 10 Nov 2021 7:18

Tgt Ion:	105	Resp:	31129
Ion	Ratio	Lower	Upper
105	100		
120	46.7	40.0	60.0
91	13.8	32.6	49.0#
77	1.7	15.8	23.8#

