

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033022\
 Data File : VL038803.D
 Acq On : 30 Mar 2022 20:42
 Operator : SY/AP
 Sample : N2169-02DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 31 04:13:56 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	882332	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2586399	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2331694	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1616301	9.04	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.40%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	119102	1.004	ppbv 99
3) Chlorodifluoromethane	2.99	51	7552	0.081	ppbv # 85
4) Chloromethane	3.14	50	30448	0.595	ppbv 91
6) Bromomethane	3.47	94	1158	0.042	ppbv # 44
7) Chloroethane	3.55	64	1386	0.081	ppbv 90
8) Dichlorotetrafluoroethane	3.05	85	119102	1.006	ppbv # 14
9) Propene	3.02	41	271522	6.035	ppbv # 83
10) Heptane	8.12	43	355548	3.306	ppbv 98
11) Trichlorofluoromethane	3.95	101	7322	0.070	ppbv # 75
13) Ethanol	3.60	45	159636	32.166	ppbv 100
15) Acetone	3.84	43	944909	12.411	ppbv 99
16) 1,3-Butadiene	3.31	39	98414	2.278	ppbv # 33
17) tert-Butyl alcohol	4.30	59	32780	0.493	ppbv # 51
19) Isopropyl Alcohol	3.96	45	24208	0.573	ppbv # 1
20) Methylene Chloride	4.34	84	13560	0.423	ppbv 93
21) Allyl Chloride	4.29	41	20533	0.375	ppbv # 76
23) Vinyl Acetate	5.05	43	29808	0.404	ppbv # 1
25) Ethyl Acetate	5.68	43	516523	2.695	ppbv # 77
26) Hexane	5.68	57	748574	8.724	ppbv # 34
27) Carbon Disulfide	4.55	76	77566	0.922	ppbv # 95
28) Methyl tert-Butyl Ether	5.04	73	8321	0.130	ppbv # 51
30) Cyclohexane	7.13	84	4479	0.060	ppbv # 1
32) 1,1,1-Trichloroethane	6.51	97	14932	0.113	ppbv 98
34) 2-Butanone	5.24	43	443665	4.334	ppbv 98
36) Benzene	6.88	78	71243	0.357	ppbv 96
39) 1,2-Dichloropropane	7.17	63	557205	7.140	ppbv # 28
41) Tetrahydrofuran	6.00	42	5746	0.075	ppbv # 48
43) Methyl Methacrylate	7.98	69	5118	0.069	ppbv # 1
44) 2,2,4-Trimethylpentane	7.86	57	121137	0.361	ppbv # 59
50) 4-Methyl-2-Pentanone	8.74	43	17093	0.090	ppbv # 87
51) 2-Hexanone	10.13	43	254635	1.863	ppbv 91
52) Tetrachloroethene	11.21	164	72558	0.993	ppbv 90
53) Toluene	9.80	91	127676	0.595	ppbv 98
58) Ethyl Benzene	12.70	91	41209	0.151	ppbv 95
59) m/p-Xylene	12.96	91	100354	0.421	ppbv 95
60) o-Xylene	13.68	91	25134	0.111	ppbv # 42
62) Isopropylbenzene	14.66	105	45348	0.133	ppbv 98
71) 2-Chlorotoluene	15.75	91	9250	0.037	ppbv 98
72) 4-Ethyltoluene	15.82	105	8425	0.032	ppbv # 54
74) 1,2,4-Trimethylbenzene	16.75	105	49626	0.187	ppbv # 70

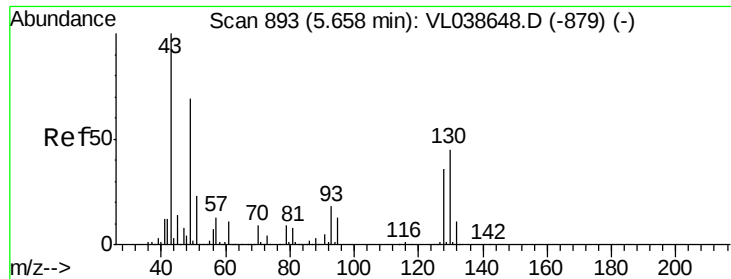
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033022\
Data File : VL038803.D
Acq On : 30 Mar 2022 20:42
Operator : SY/AP
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Quant Time: Mar 31 04:13:56 2022
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
QLast Update : Mon Mar 21 17:09:26 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 30 Mar 2022 20:42

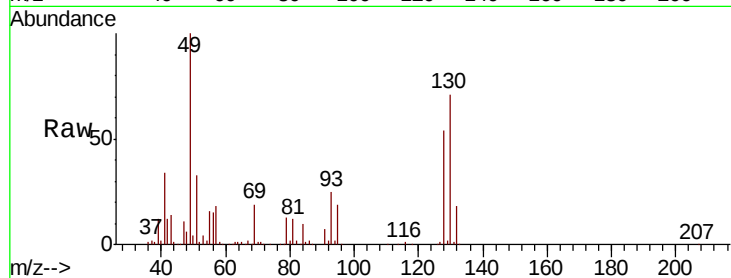
Tot Ion: 49 Resp: 882332

Ion Ratio Lower Upper

49 100

128 57.0 26.2 78.6

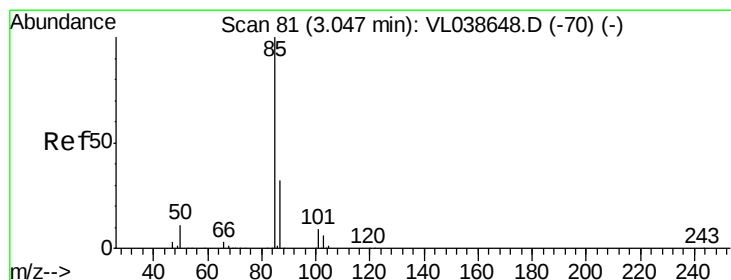
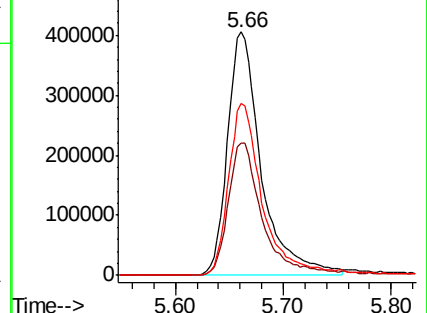
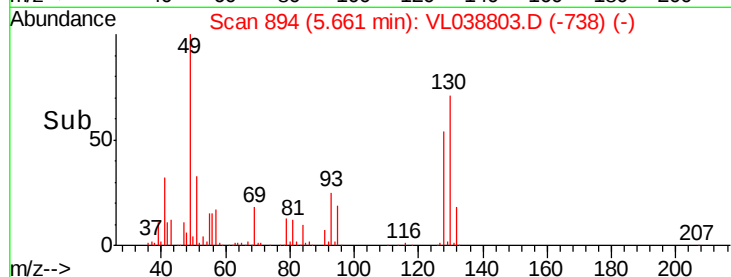
130 73.5 33.7 101.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 1.004 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL038803.D

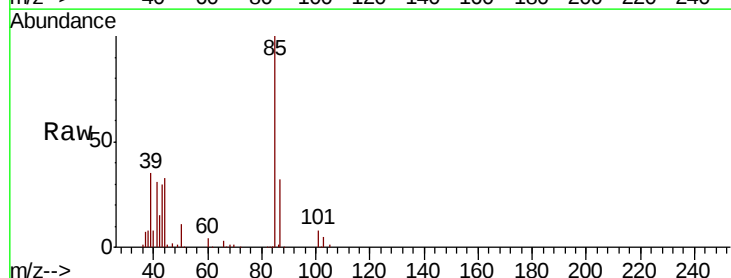
Acq: 30 Mar 2022 20:42

Tgt Ion: 85 Resp: 119102

Ion Ratio Lower Upper

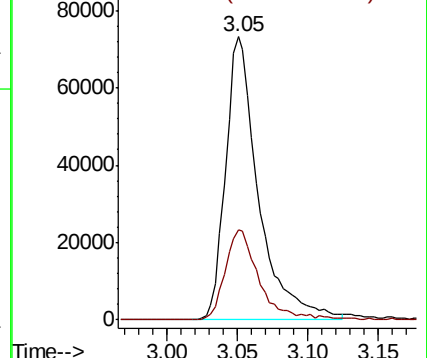
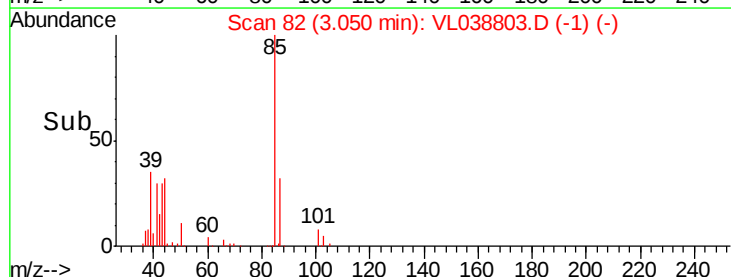
85 100

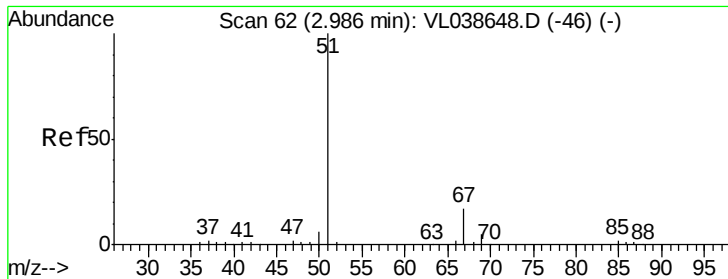
87 31.9 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

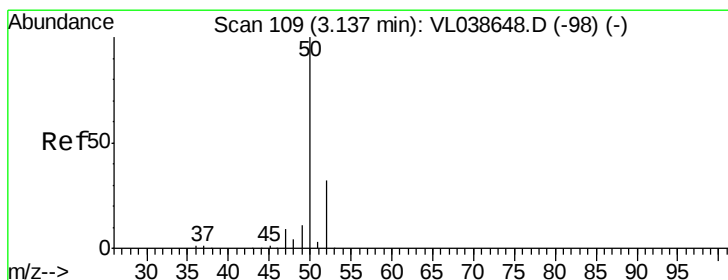
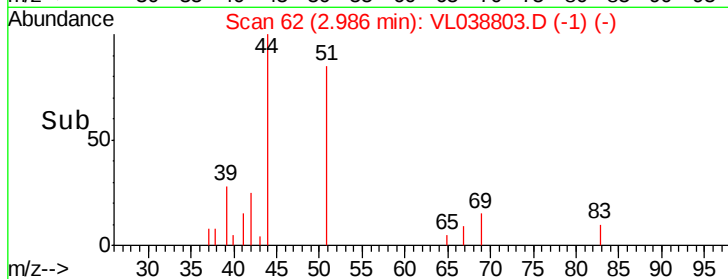
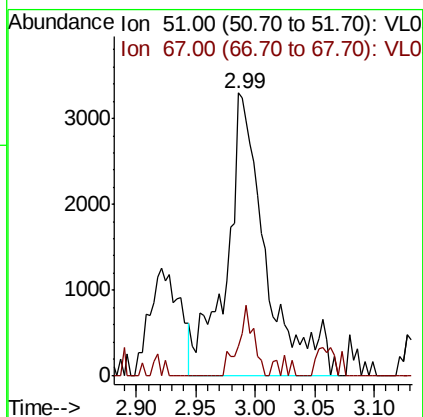
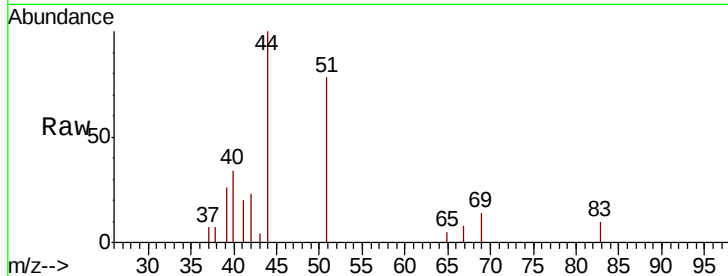
Ion 87.00 (86.70 to 87.70): VL0





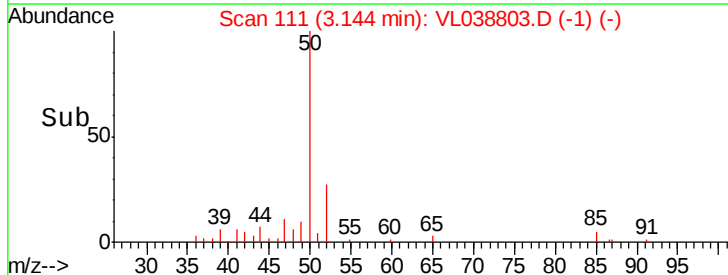
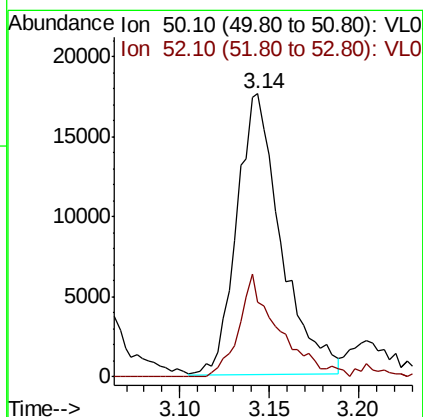
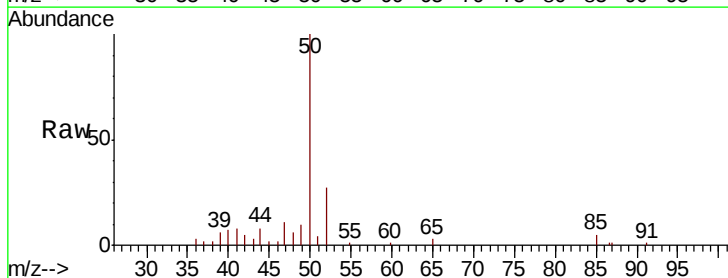
#3
 Chlorodifluoromethane
 Concen: 0.081 ppbv
 RT: 2.99 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 30 Mar 2022 20:42

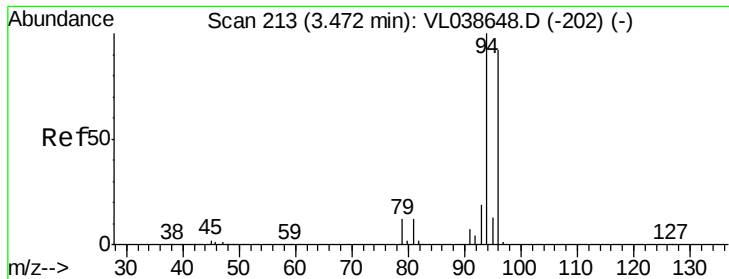
Tot Ion: 51 Resp: 7552
 Ion Ratio Lower Upper
 51 100
 67 10.9 14.1 21.1#



#4
 Chloromethane
 Concen: 0.595 ppbv
 RT: 3.14 min Scan# 111
 Delta R.T.: 0.01 min
 Lab File: VL038803.D
 Acq: 30 Mar 2022 20:42

Tgt Ion: 50 Resp: 30448
 Ion Ratio Lower Upper
 50 100
 52 26.9 25.5 38.3





#6

Bromomethane

Concen: 0.042 ppbv

RT: 3.47 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

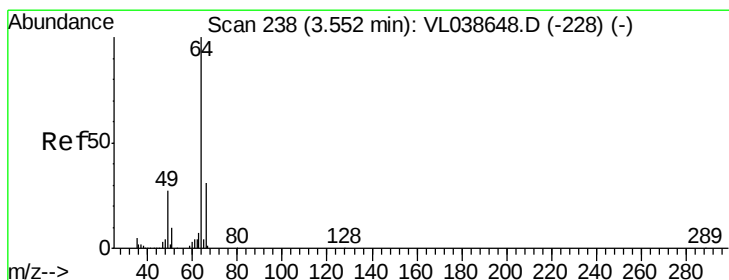
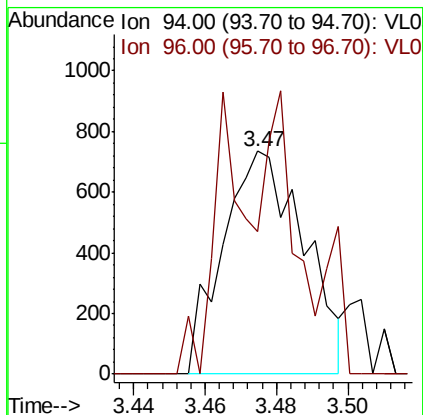
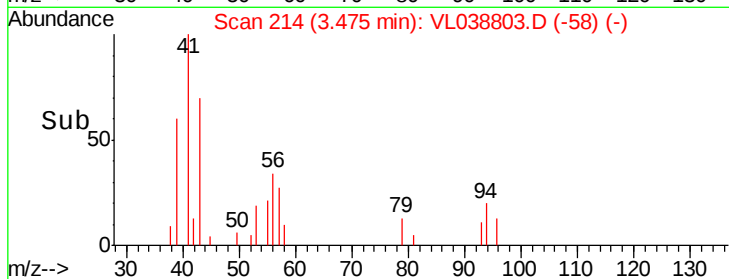
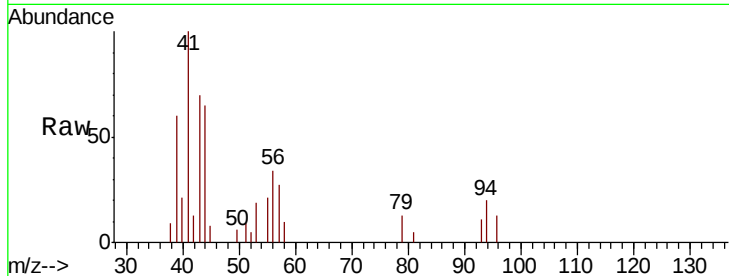
Acq: 30 Mar 2022 20:42

Tot Ion: 94 Resp: 1158

Ion Ratio Lower Upper

94 100

96 37.9 73.3 109.9#



#7

Chloroethane

Concen: 0.081 ppbv

RT: 3.55 min Scan# 238

Delta R.T. -0.00 min

Lab File: VL038803.D

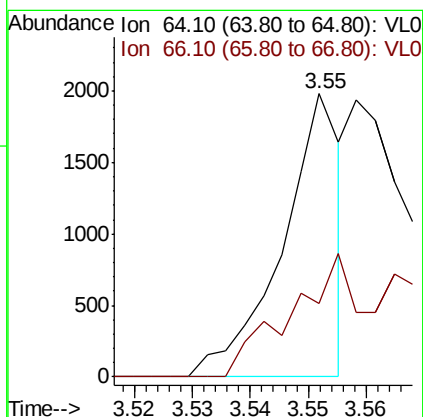
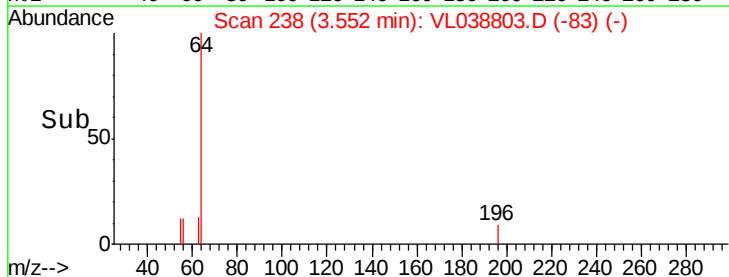
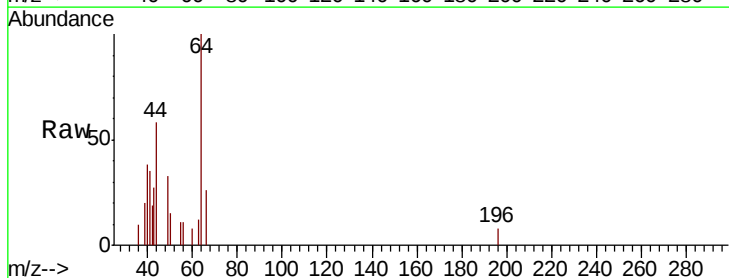
Acq: 30 Mar 2022 20:42

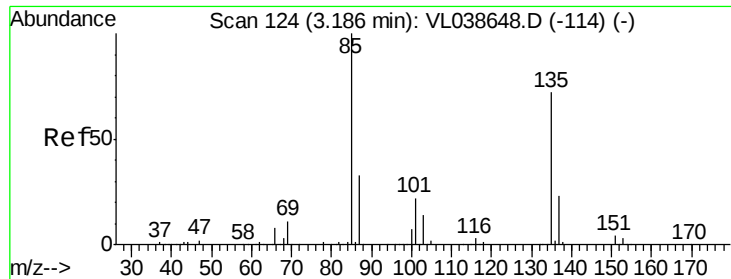
Tgt Ion: 64 Resp: 1386

Ion Ratio Lower Upper

64 100

66 25.8 25.0 37.6





#8

Dichlorotetrafluoroethane

Concen: 1.006 ppbv

RT: 3.05 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

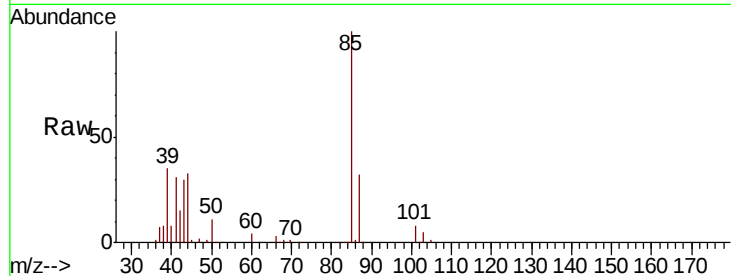
Acq: 30 Mar 2022 20:42

Tot Ion: 85 Resp: 119102

Ion Ratio Lower Upper

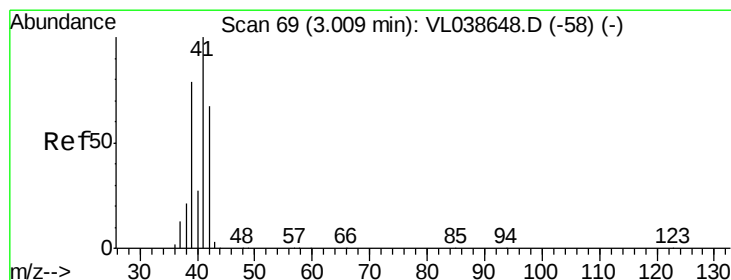
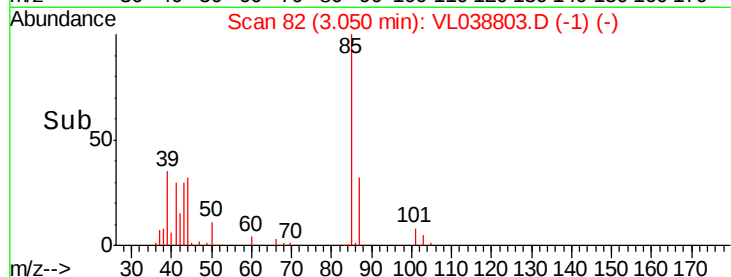
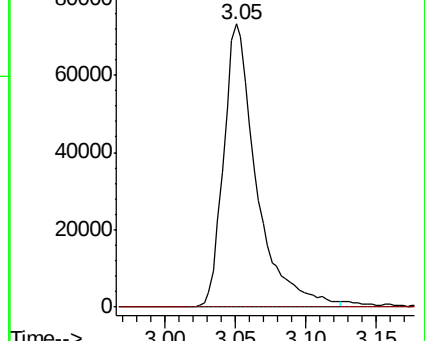
85 100

135 0.2 57.8 86.6#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#9

Propene

Concen: 6.035 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL038803.D

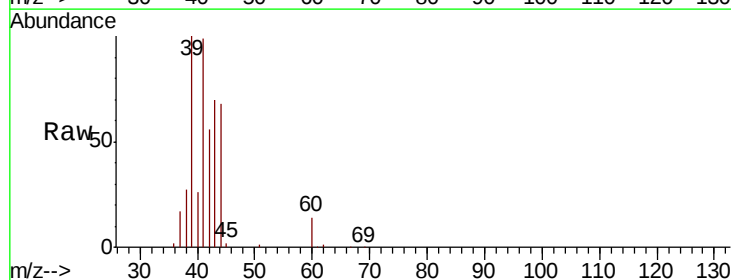
Acq: 30 Mar 2022 20:42

Tgt Ion: 41 Resp: 271522

Ion Ratio Lower Upper

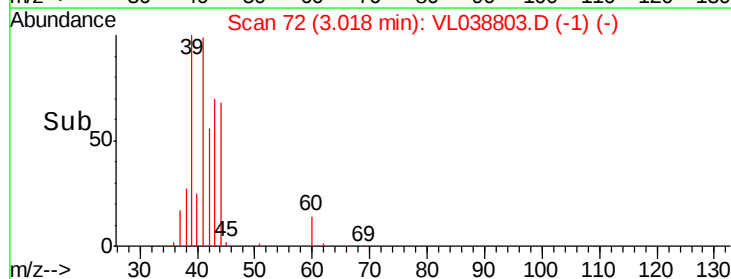
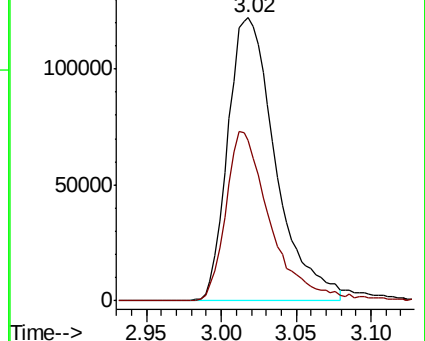
41 100

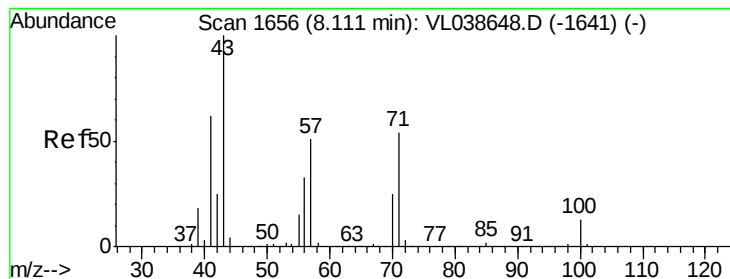
42 56.1 56.2 84.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 3.306 ppbv

RT: 8.12 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

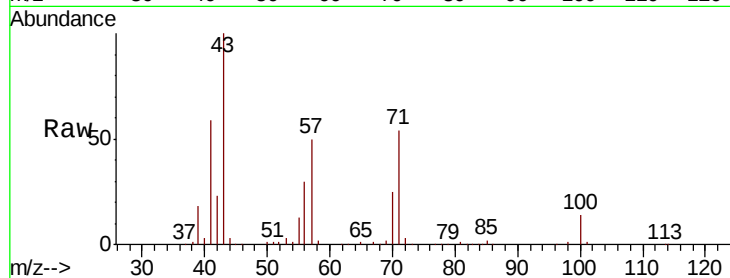
Acq: 30 Mar 2022 20:42

Tot Ion: 43 Resp: 355548

Ion Ratio Lower Upper

43 100

57 50.6 41.4 62.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.12

150000

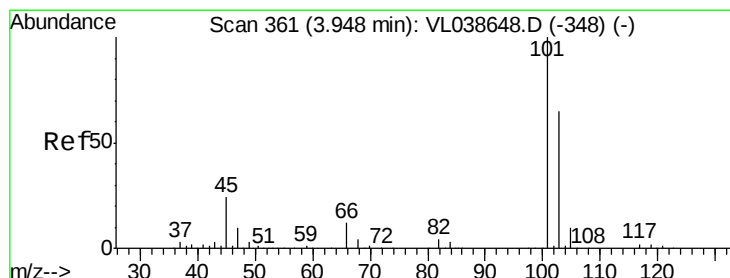
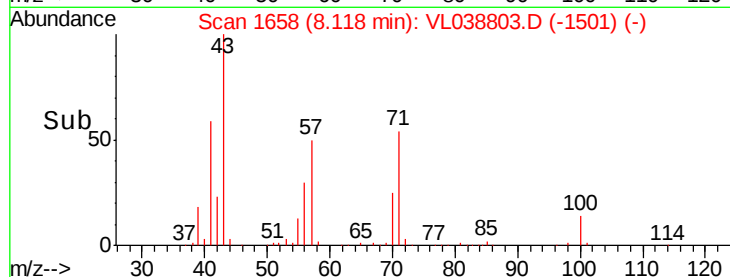
100000

50000

0

Time-->

8.05 8.10 8.15 8.20



#11

Trichlorofluoromethane

Concen: 0.070 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.00 min

Lab File: VL038803.D

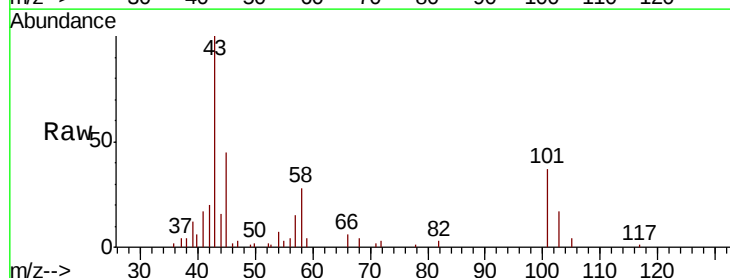
Acq: 30 Mar 2022 20:42

Tgt Ion: 101 Resp: 7322

Ion Ratio Lower Upper

101 100

103 44.9 51.9 77.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.95

5000

4000

3000

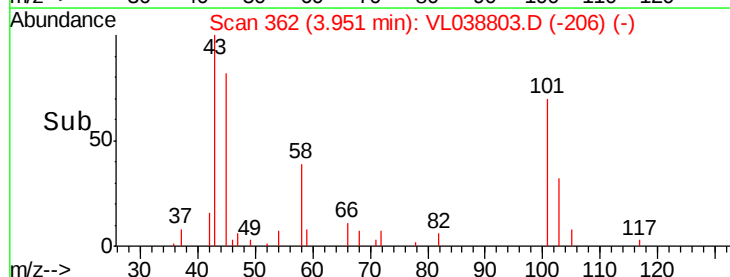
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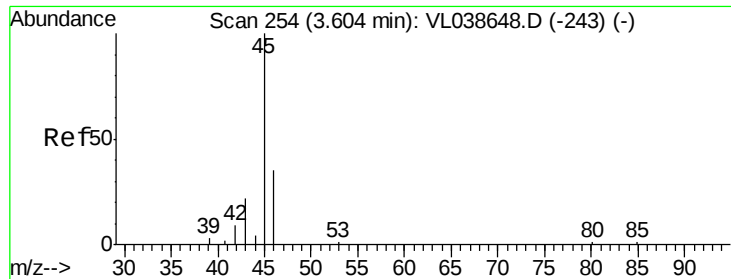
1000

0

Time-->

3.90 3.95 4.00





#13

Ethanol

Concen: 32.166 ppbv

RT: 3.60 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

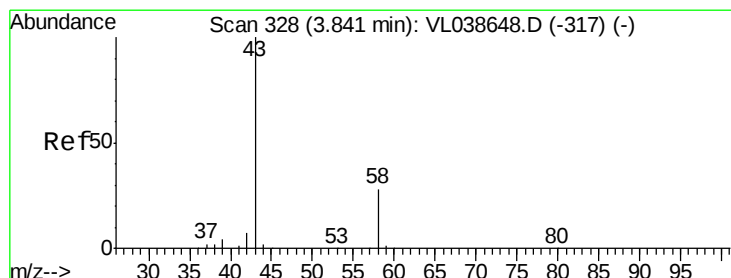
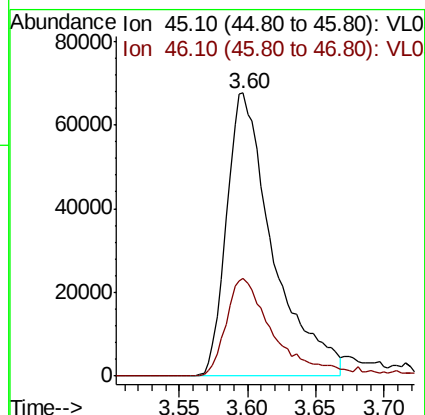
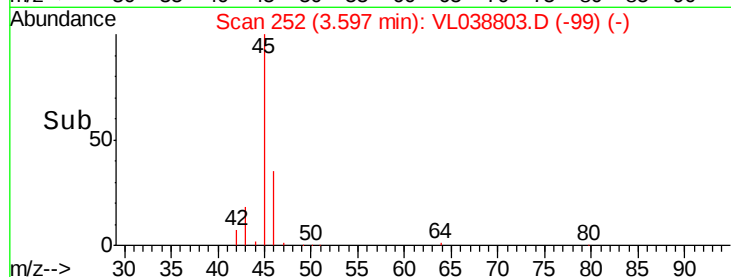
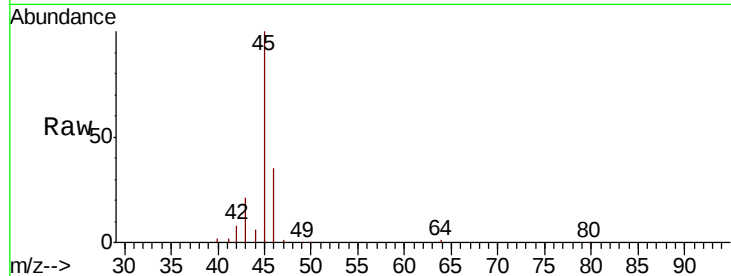
Acq: 30 Mar 2022 20:42

Tot Ion: 45 Resp: 159636

Ion Ratio Lower Upper

45 100

46 37.7 15.1 60.5



#15

Acetone

Concen: 12.411 ppbv

RT: 3.84 min Scan# 329

Delta R.T. 0.00 min

Lab File: VL038803.D

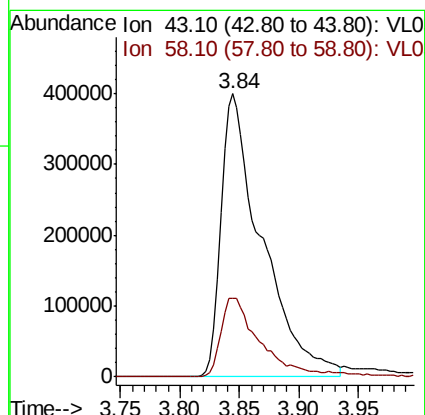
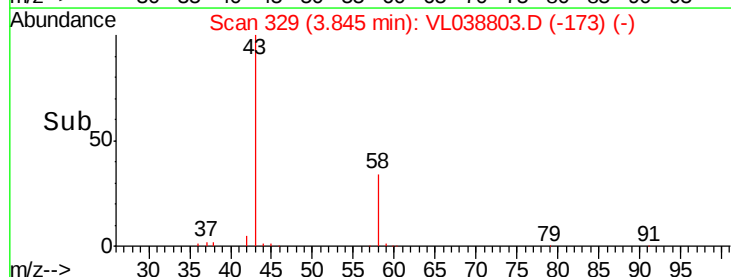
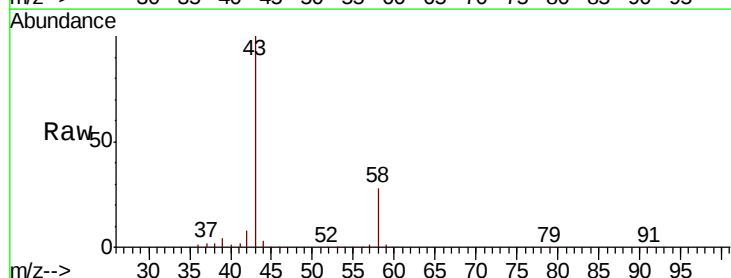
Acq: 30 Mar 2022 20:42

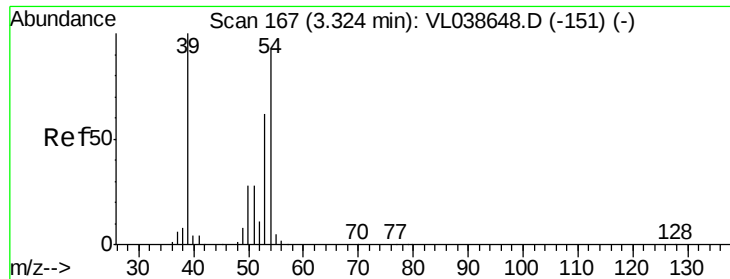
Tgt Ion: 43 Resp: 944909

Ion Ratio Lower Upper

43 100

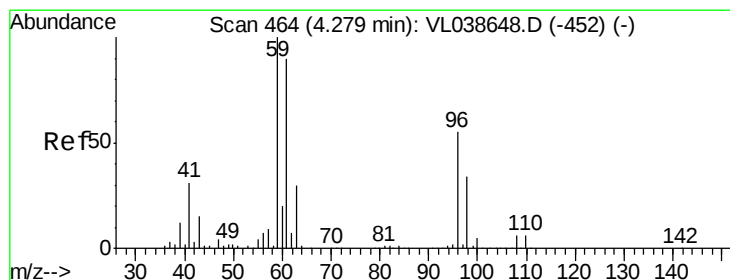
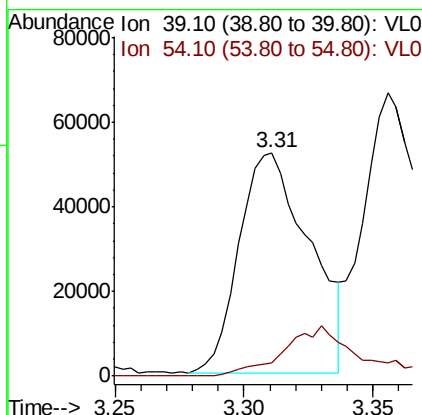
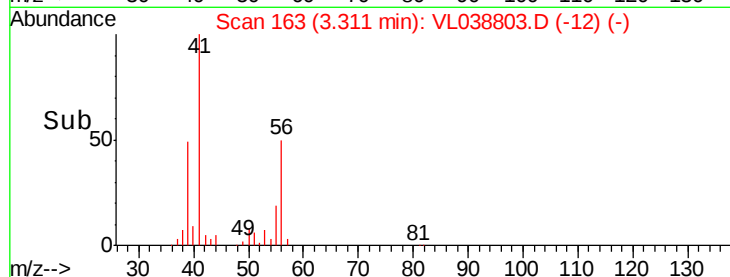
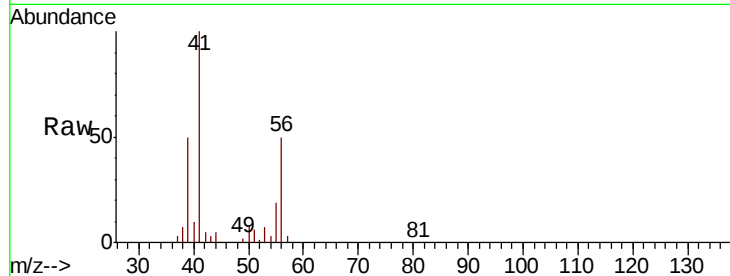
58 28.7 23.3 34.9





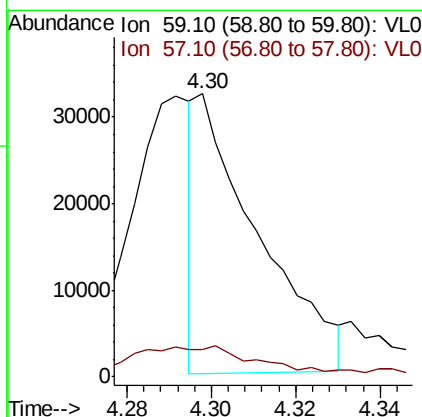
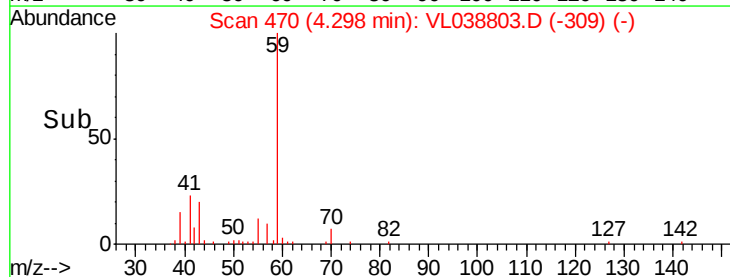
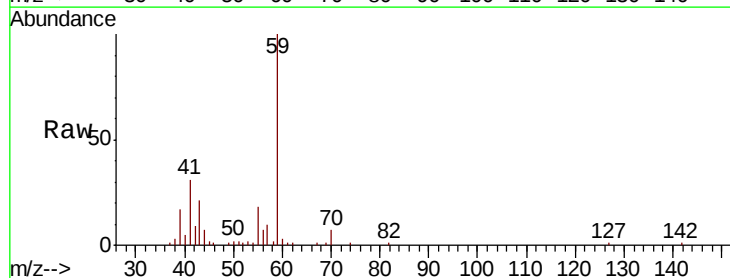
#16
 1,3-Butadiene
 Concen: 2.278 ppbv
 RT: 3.31 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 30 Mar 2022 20:42

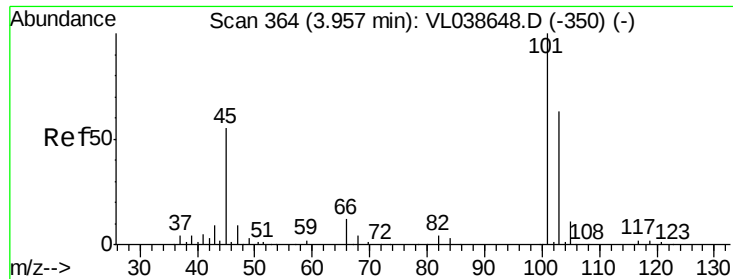
Tot Ion: 39 Resp: 98414
 Ion Ratio Lower Upper
 39 100
 54 24.5 69.1 103.7#



#17
 tert-Butyl alcohol
 Concen: 0.493 ppbv
 RT: 4.30 min Scan# 470
 Delta R.T. 0.02 min
 Lab File: VL038803.D
 Acq: 30 Mar 2022 20:42

Tgt Ion: 59 Resp: 32780
 Ion Ratio Lower Upper
 59 100
 57 28.3 8.2 12.2#





#19

Isopropyl Alcohol

Concen: 0.573 ppbv

RT: 3.96 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

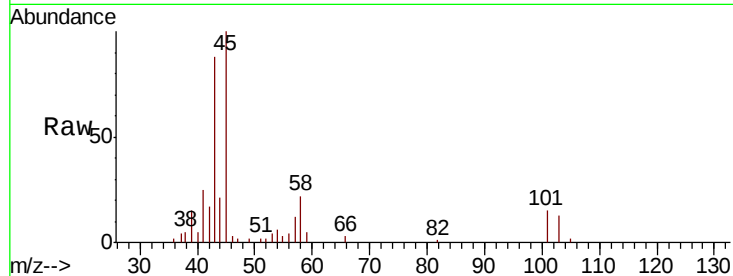
Acq: 30 Mar 2022 20:42

Tot Ion: 45 Resp: 24208

Ion Ratio Lower Upper

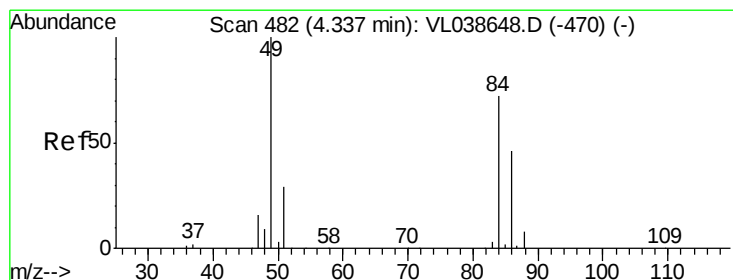
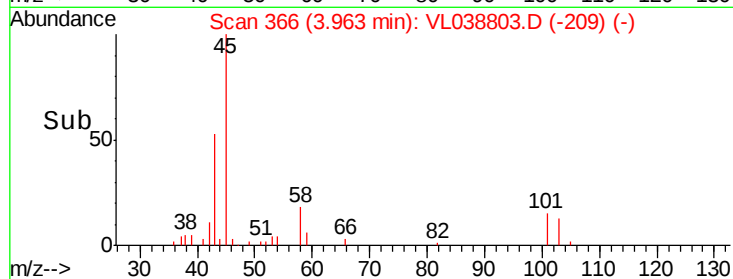
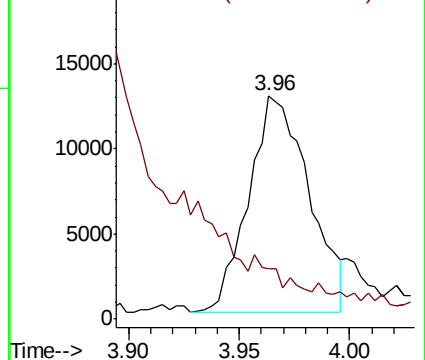
45 100

58 1120.5 2.3 3.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.423 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.01 min

Lab File: VL038803.D

Acq: 30 Mar 2022 20:42

Tgt Ion: 84 Resp: 13560

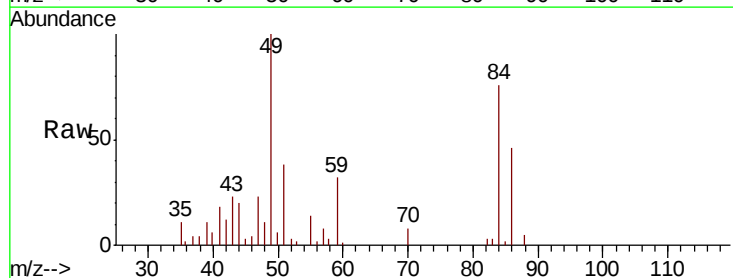
Ion Ratio Lower Upper

84 100

49 128.4 111.2 166.8

51 37.4 32.8 49.2

86 61.4 51.4 77.0

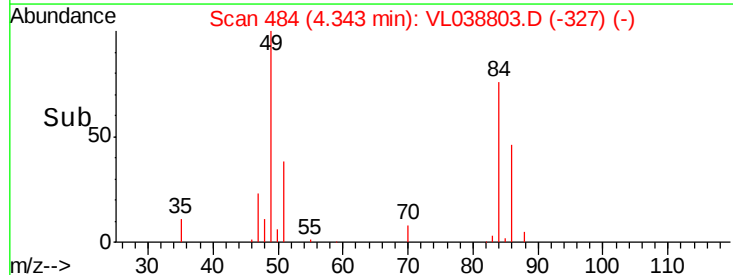
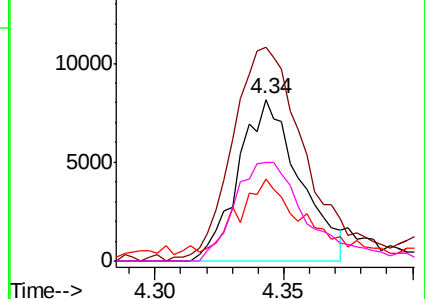


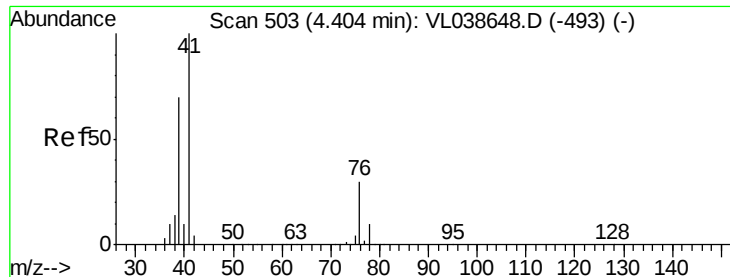
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

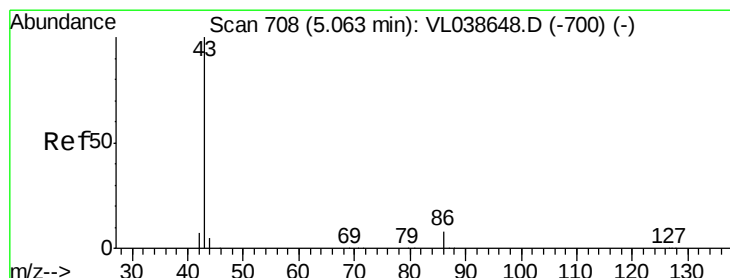
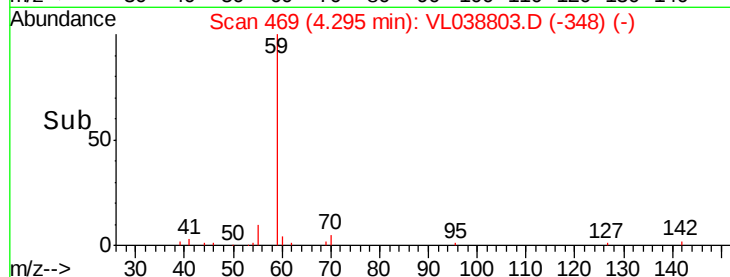
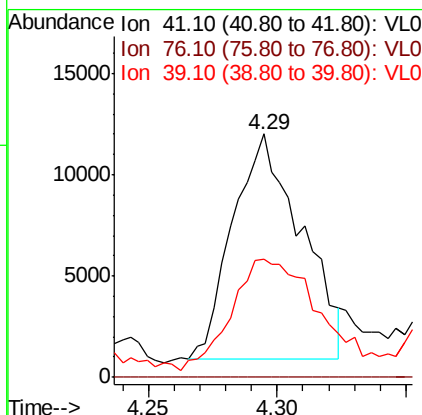
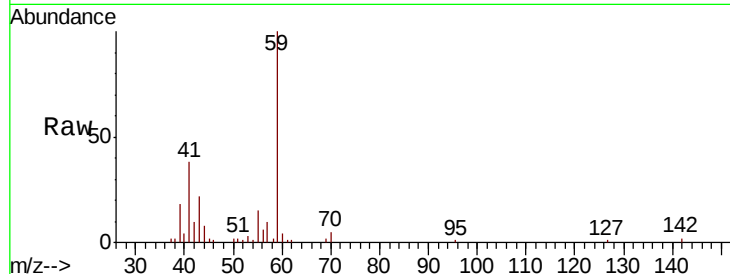
Ion 86.00 (85.70 to 86.70): VL0





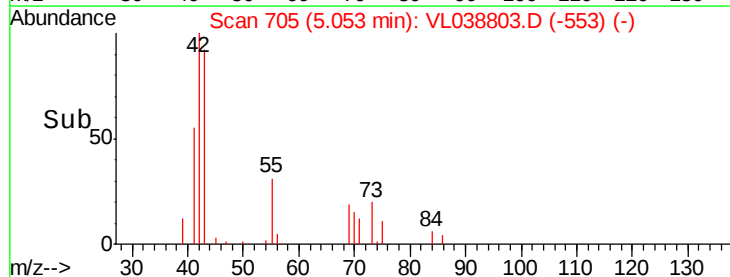
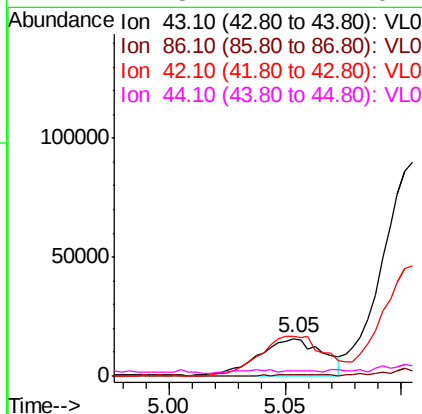
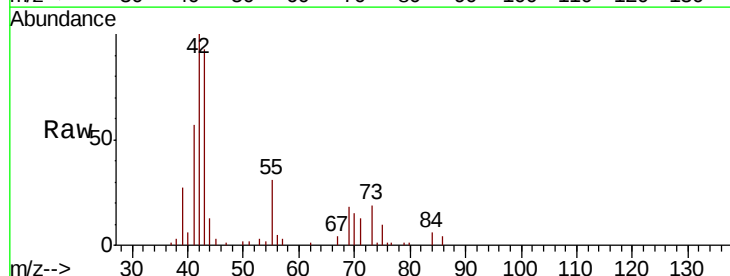
#21
 Allvl Chloride
 Concen: 0.375 ppbv
 RT: 4.29
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 30 Mar 2022 20:42

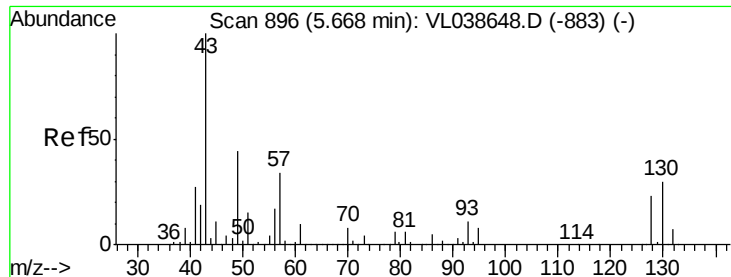
Tot Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.0	37.6#
39	63.1	56.6	85.0



#23
 Vinyl Acetate
 Concen: 0.404 ppbv
 RT: 5.05 min Scan# 705
 Delta R.T. -0.01 min
 Lab File: VL038803.D
 Acq: 30 Mar 2022 20:42

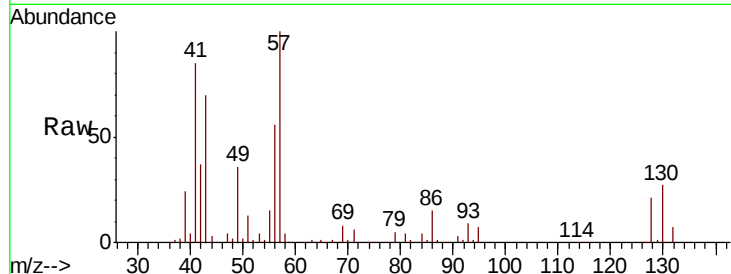
Tgt Ion	Ratio	Lower	Upper
43	100		
86	4.2	5.6	8.4#
42	106.8	6.8	10.2#
44	2.8	4.2	6.2#





#25
Ethyl Acetate
Concen: 2.695 ppbv
RT: 5.68 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 30 Mar 2022 20:42

Tot Ion:	43	Resp:	516523
Ion	Ratio	Lower	Upper
43	100		
45	0.4	8.2	12.4#
61	0.3	8.3	12.5#
70	3.2	5.6	8.4#



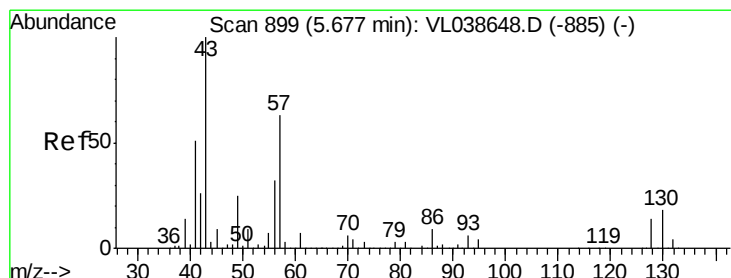
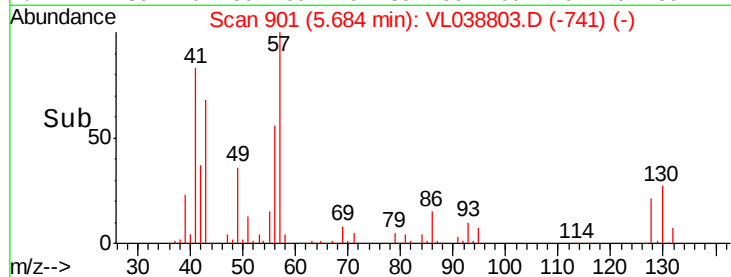
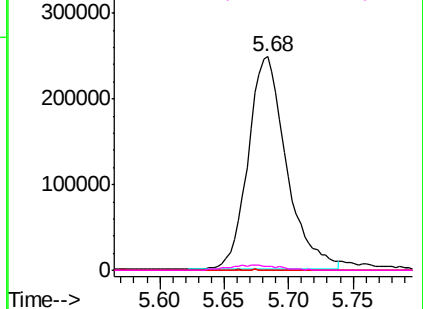
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

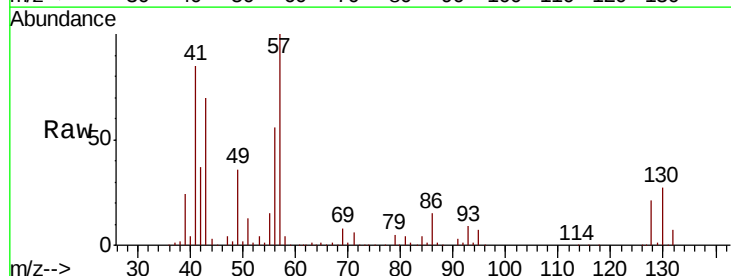
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 8.724 ppbv
RT: 5.68 min Scan# 901
Delta R.T.: 0.01 min
Lab File: VL038803.D
Acq: 30 Mar 2022 20:42

Tgt Ion:	57	Resp:	748574
Ion	Ratio	Lower	Upper
57	100		
41	102.6	67.0	100.4#
43	71.5	184.2	276.2#
56	60.4	42.6	64.0



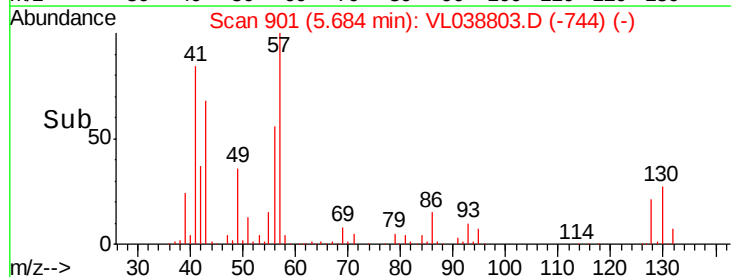
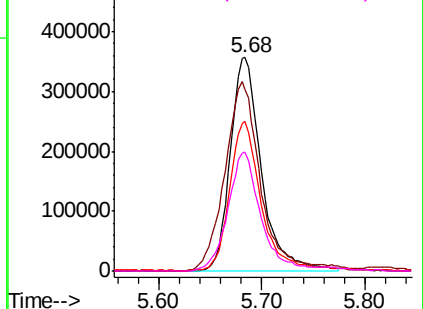
Abundance

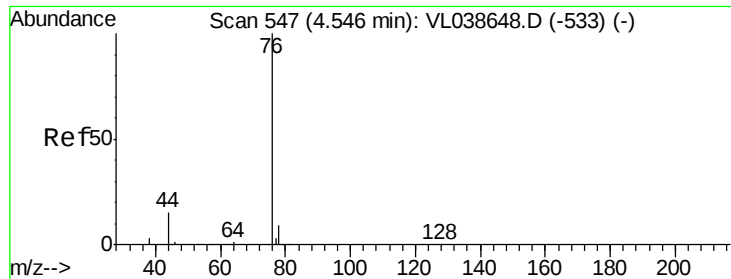
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.922 ppbv

RT: 4.55 Instrument:

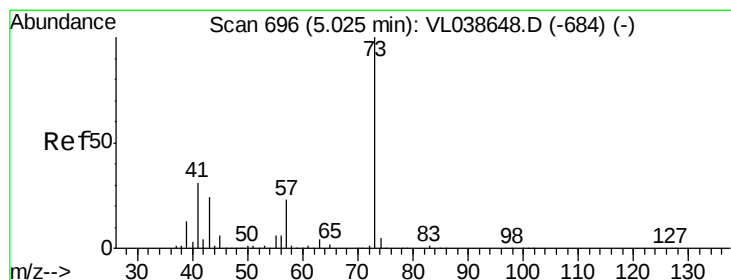
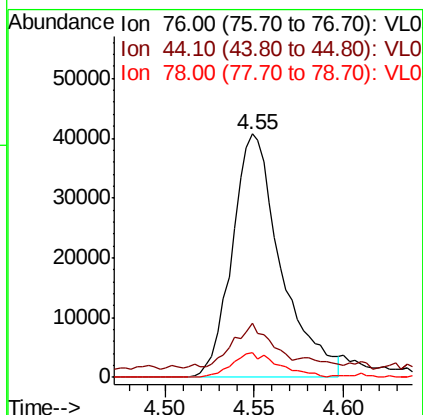
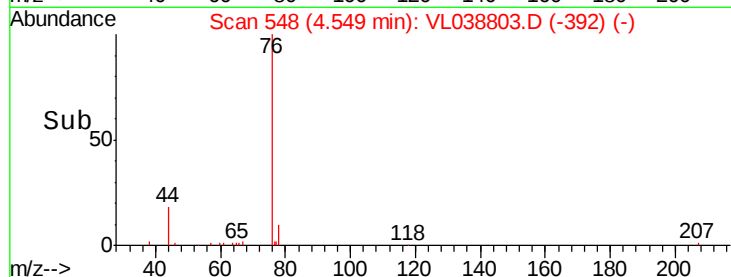
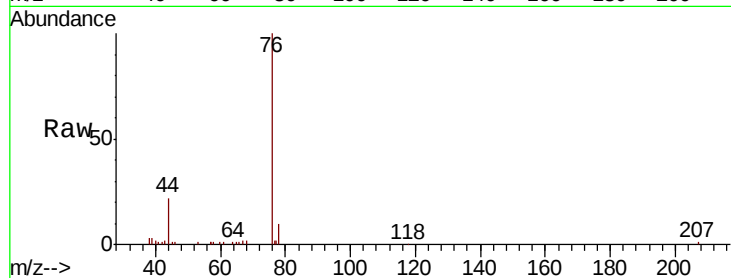
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 30 Mar 2022 20:42

Tot Ion: 76 Resp: 77566

Ion	Ratio	Lower	Upper
76	100		
44	19.2	12.4	18.6#
78	9.9	7.8	11.8



#28

Methyl tert-Butyl Ether

Concen: 0.130 ppbv

RT: 5.04 min Scan# 700

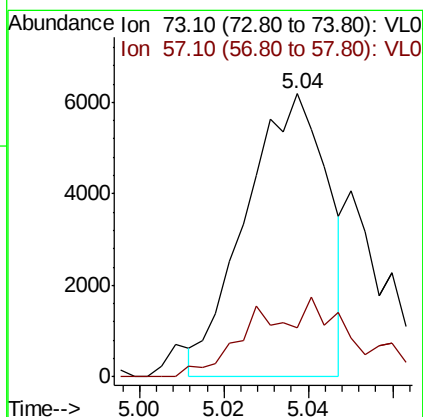
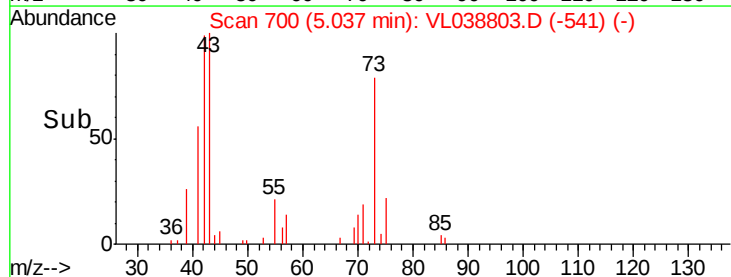
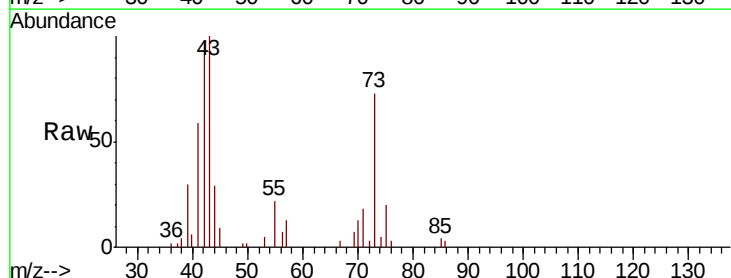
Delta R.T. 0.01 min

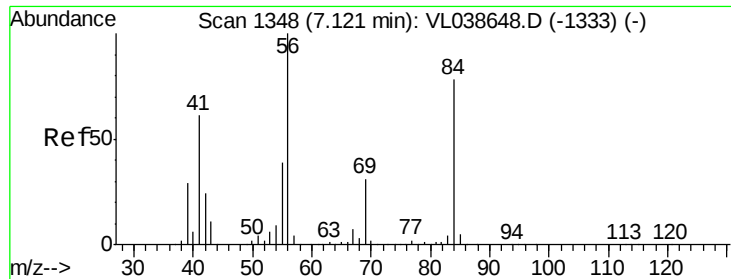
Lab File: VL038803.D

Acq: 30 Mar 2022 20:42

Tgt Ion: 73 Resp: 8321

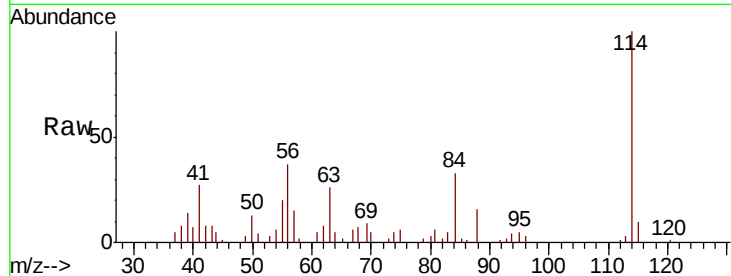
Ion	Ratio	Lower	Upper
73	100		
57	0.0	19.2	28.8#



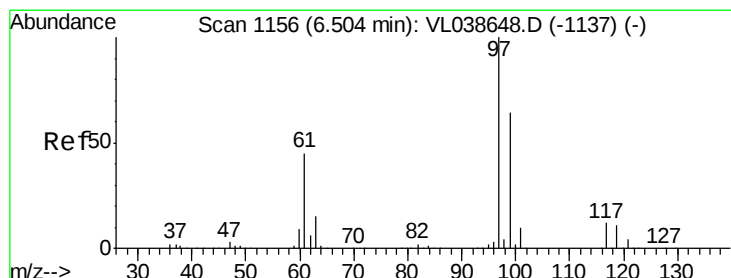
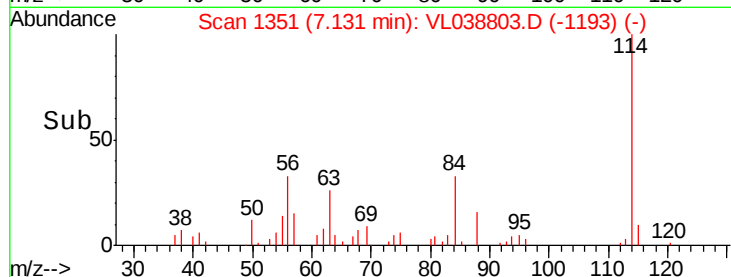
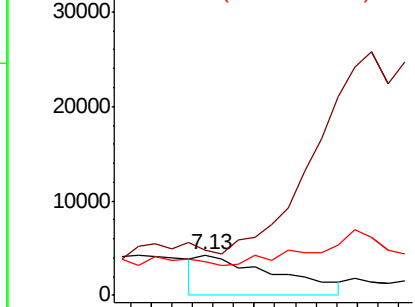


#30
Cvclohexane
Concen: 0.060 ppbv
RT: 7.13
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 30 Mar 2022 20:42

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	108.2	162.4#
41	0.0	61.8	92.6#

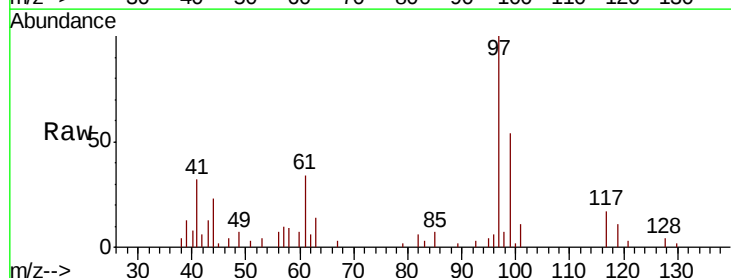


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

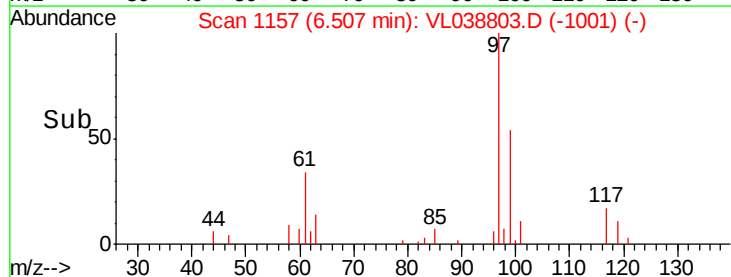
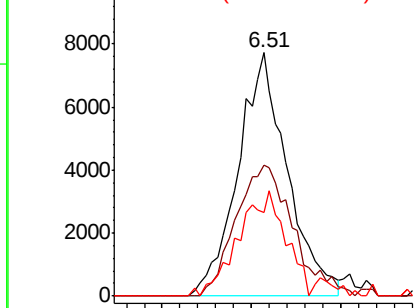


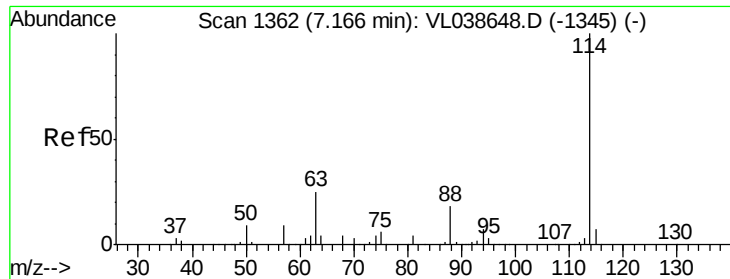
#32
1,1,1-Trichloroethane
Concen: 0.113 ppbv
RT: 6.51 min Scan# 1157
Delta R.T. 0.00 min
Lab File: VL038803.D
Acq: 30 Mar 2022 20:42

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.8	51.8	77.8
61	44.4	36.7	55.1



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 30 Mar 2022 20:42

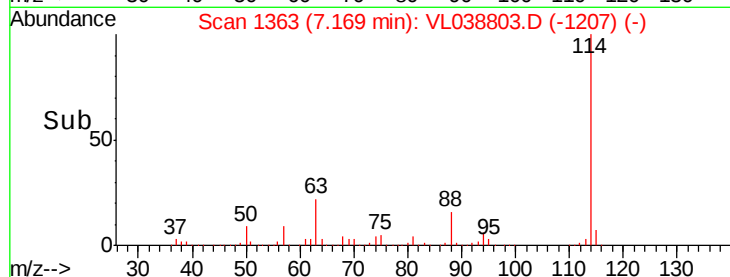
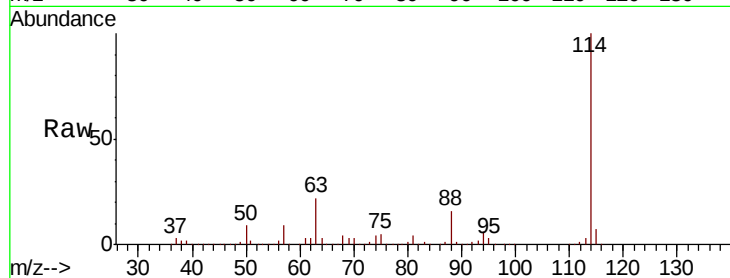
Tot Ion:114 Resp: 2586399

Ion Ratio Lower Upper

114 100

63 22.0 19.4 29.0

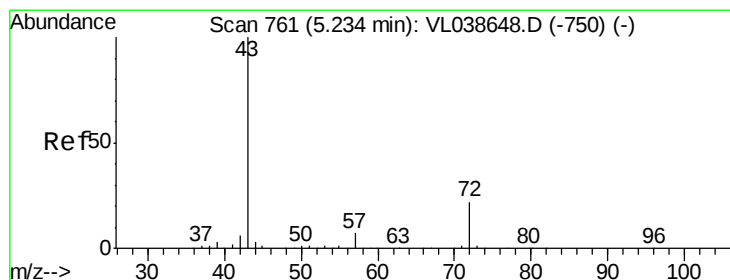
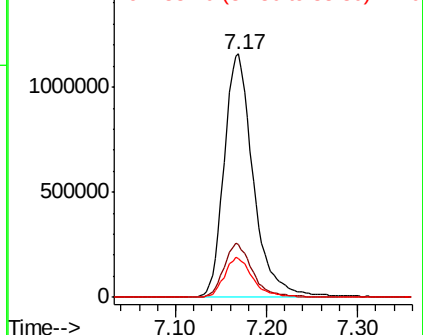
88 16.0 13.9 20.9



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: 4.334 ppbv

RT: 5.24 min Scan# 762

Delta R.T. 0.00 min

Lab File: VL038803.D

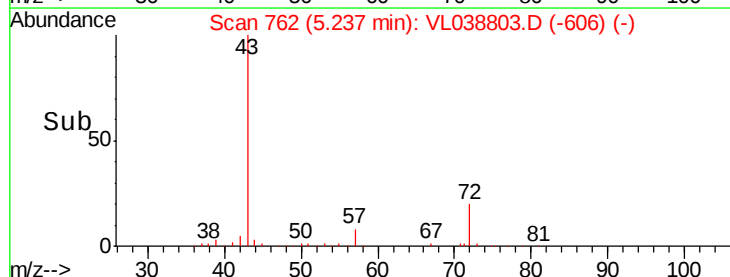
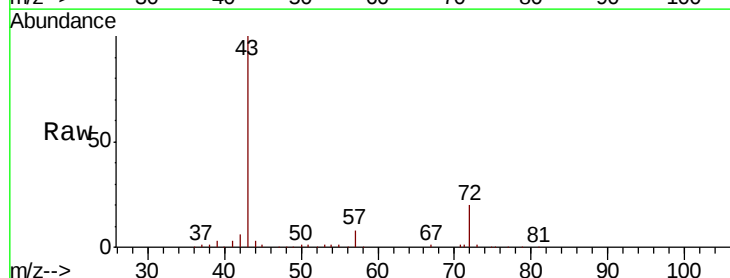
Acq: 30 Mar 2022 20:42

Tgt Ion: 43 Resp: 443665

Ion Ratio Lower Upper

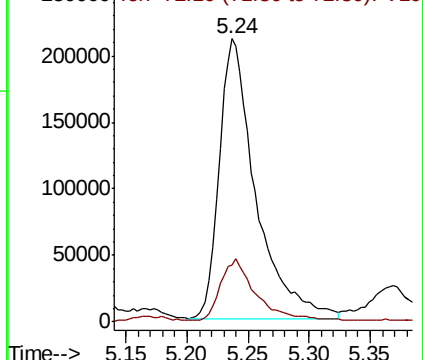
43 100

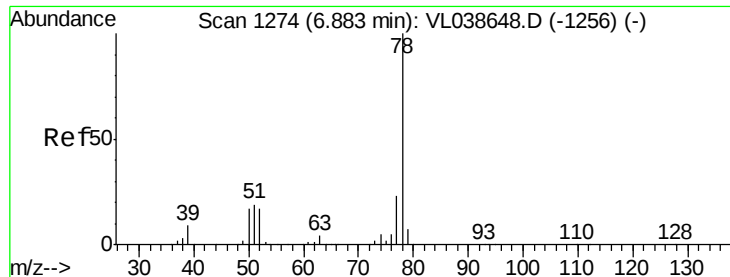
72 21.4 17.8 26.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

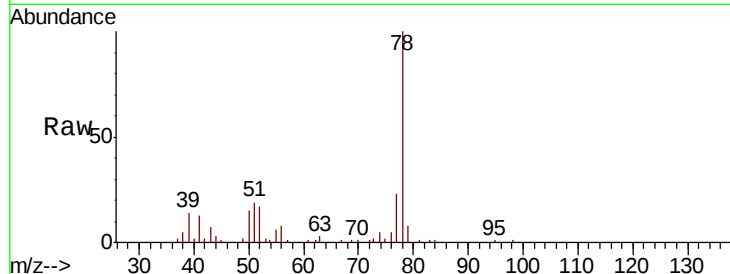
Ion 72.10 (71.80 to 72.80): VL0



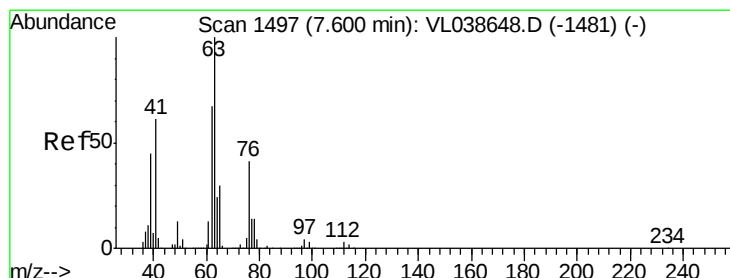
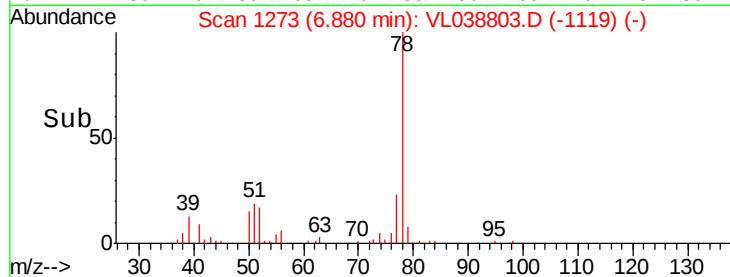
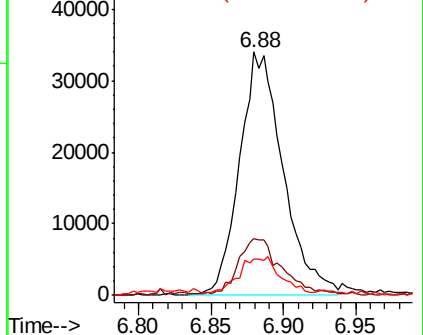


#36
Benzene
Concen: 0.357 ppbv
RT: 6.88
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 30 Mar 2022 20:42

Tot Ion	78	Resp	71243
Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.1	27.1
50	13.7	13.6	20.4

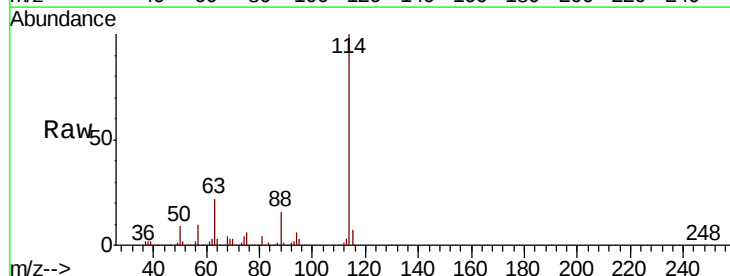


Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0

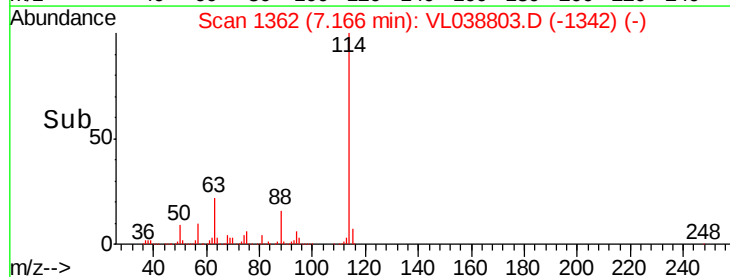
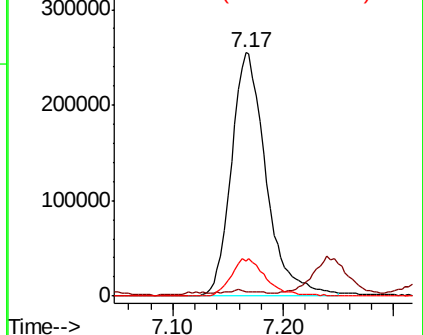


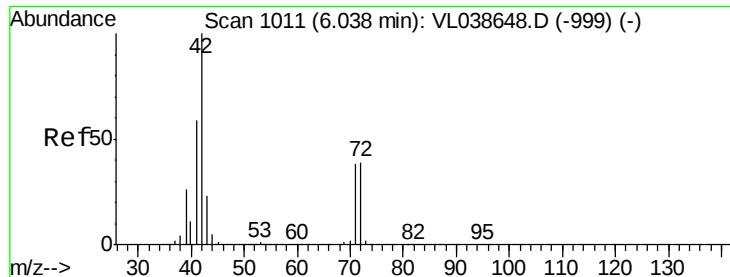
#39
1,2-Dichloropropane
Concen: 7.140 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. -0.43 min
Lab File: VL038803.D
Acq: 30 Mar 2022 20:42

Tgt Ion	63	Resp	557205
Ion	Ratio	Lower	Upper
63	100		
41	0.4	49.0	73.6#
62	14.5	53.9	80.9#



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: 0.075 ppbv

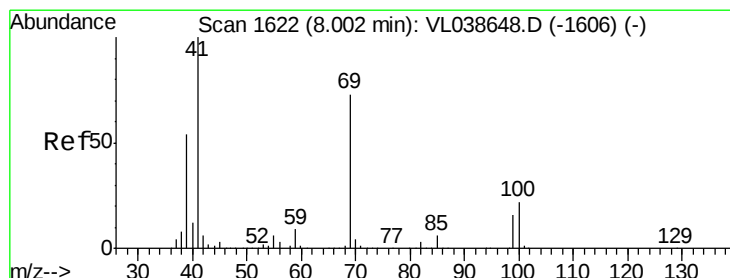
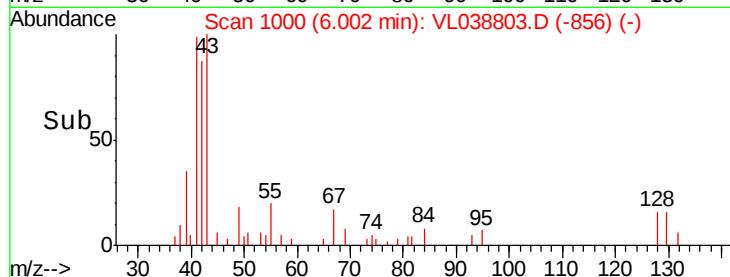
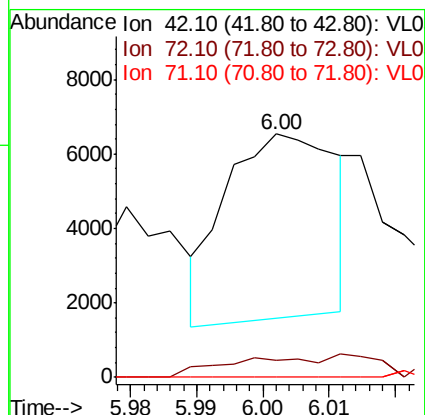
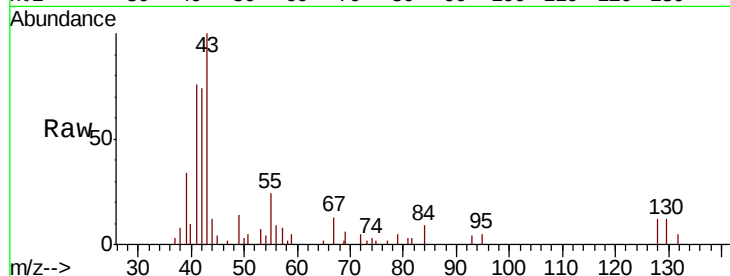
RT: 6.00 Instrument:

Delta R.T. MSVOA.L

Lab File: ClientSampleId:

Acq: 30 Mar 2022 20:42

Tot Ion:	42	Resp:	5746
Ion	Ratio	Lower	Upper
42	100		
72	15.0	32.5	48.7#
71	0.0	31.4	47.2#



#43

Methyl Methacrylate

Concen: 0.069 ppbv

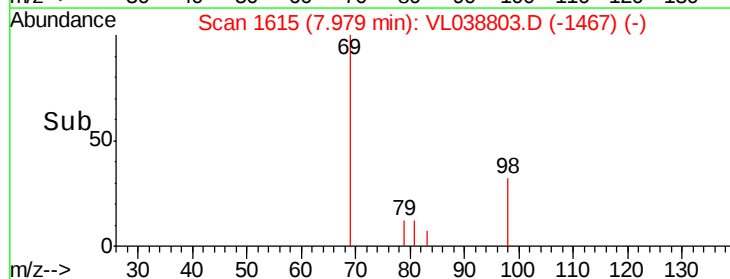
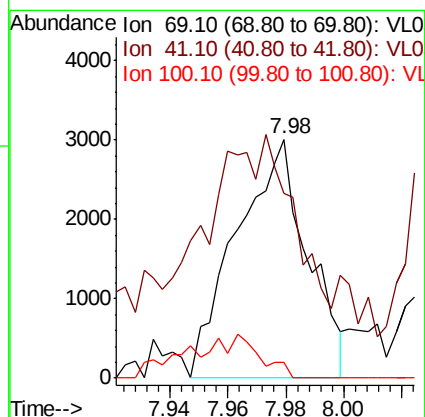
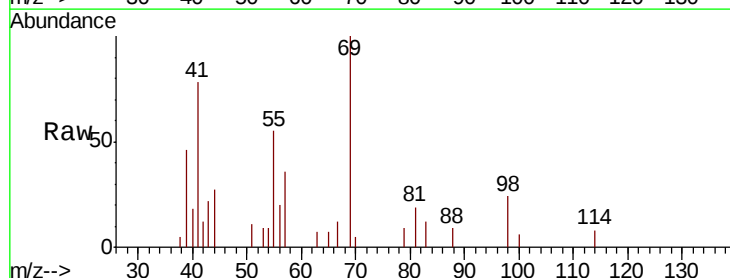
RT: 7.98 min Scan# 1615

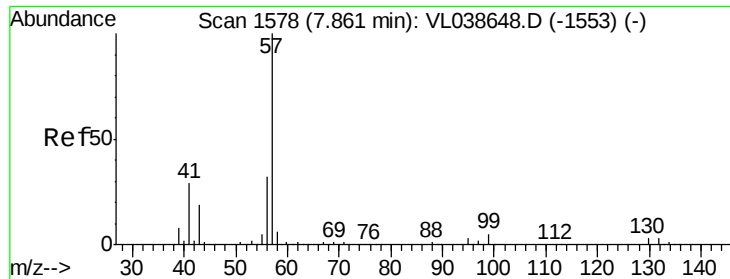
Delta R.T. -0.02 min

Lab File: VL038803.D

Acq: 30 Mar 2022 20:42

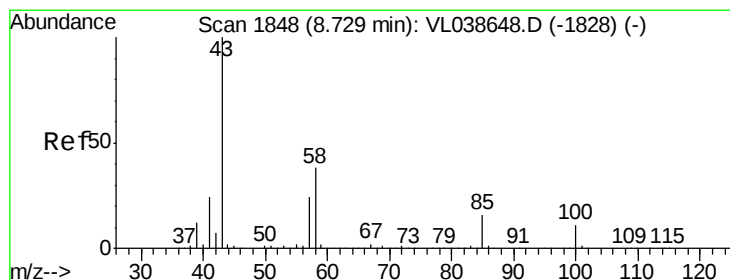
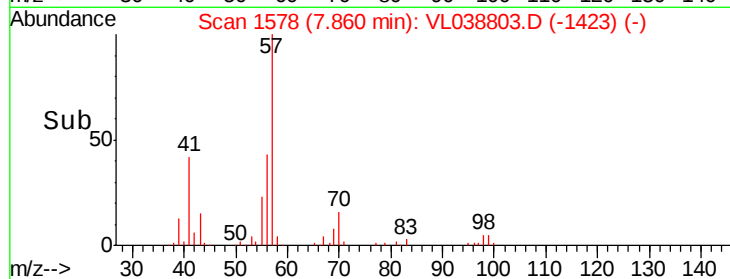
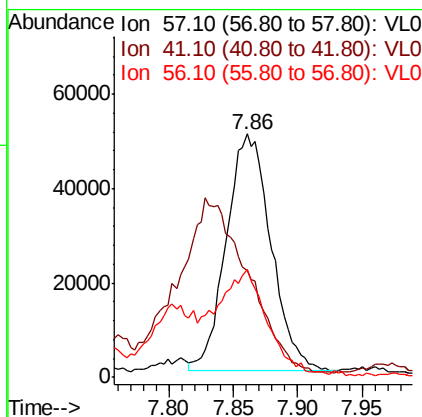
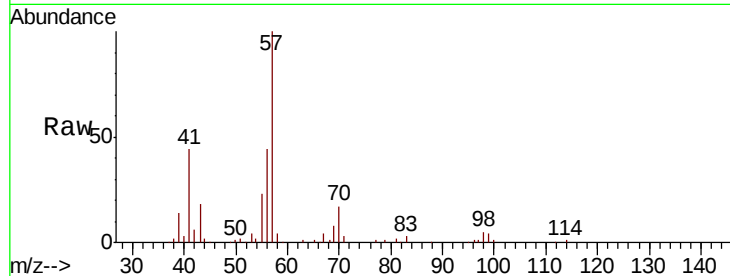
Tgt Ion:	69	Resp:	5118
Ion	Ratio	Lower	Upper
69	100		
41	0.0	110.3	165.5#
100	0.0	24.8	37.2#





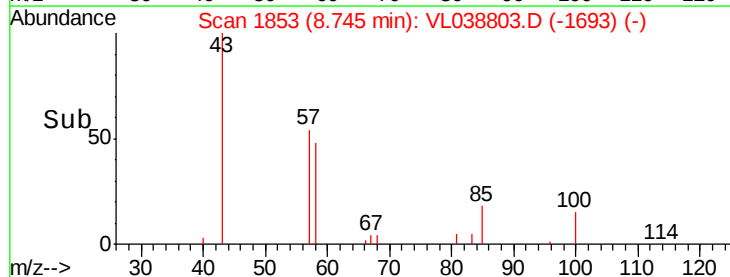
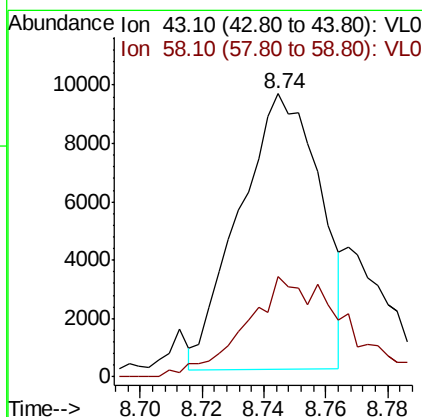
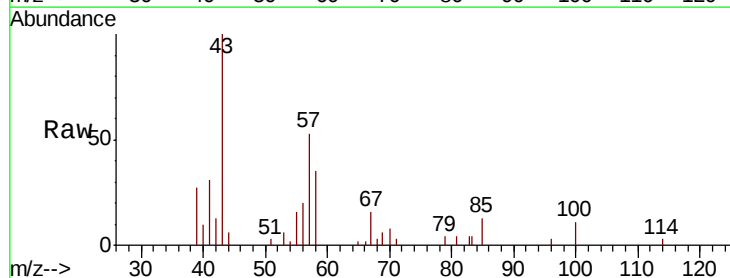
#44
 2,2,4-Trimethylpentane
 Concen: 0.361 ppbv
 RT: 7.86 Instrument :
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 30 Mar 2022 20:42

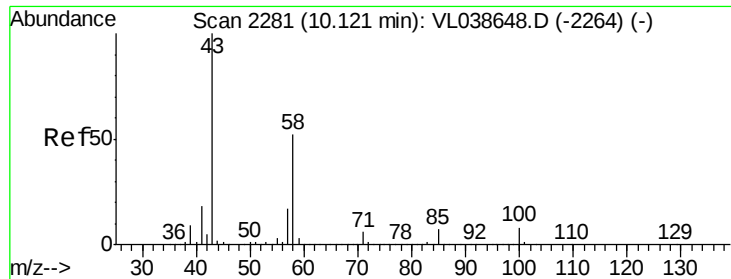
Tot Ion: 57 Resp: 121137
 Ion Ratio Lower Upper
 57 100
 41 0.0 23.0 34.4#
 56 48.2 25.3 37.9#



#50
 4-Methyl-2-Pentanone
 Concen: 0.090 ppbv
 RT: 8.74 min Scan# 1853
 Delta R.T. 0.02 min
 Lab File: VL038803.D
 Acq: 30 Mar 2022 20:42

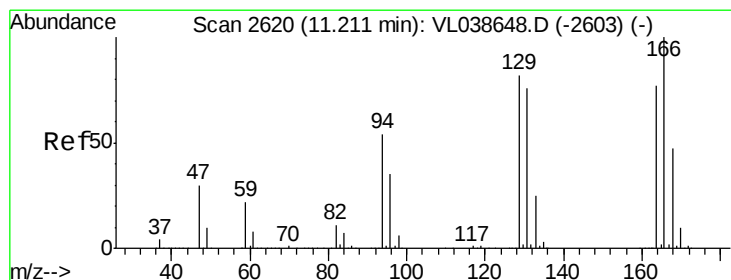
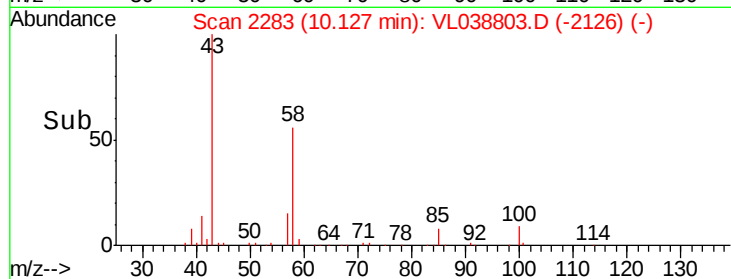
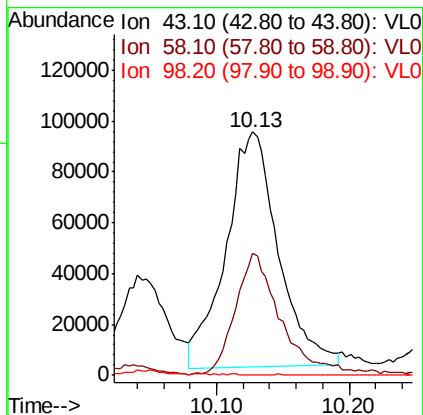
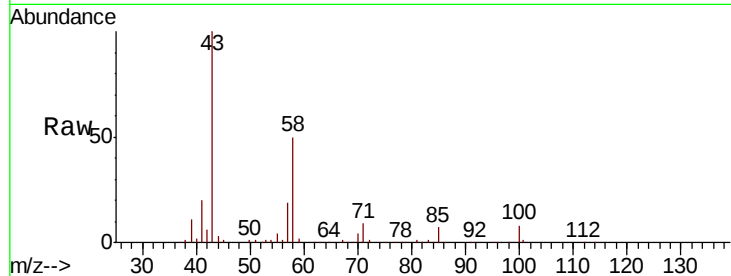
Tgt Ion: 43 Resp: 17093
 Ion Ratio Lower Upper
 43 100
 58 45.4 29.9 44.9#





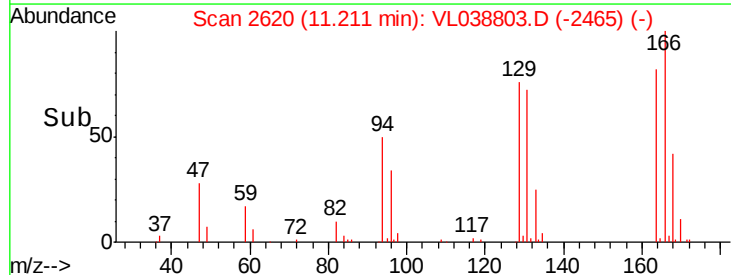
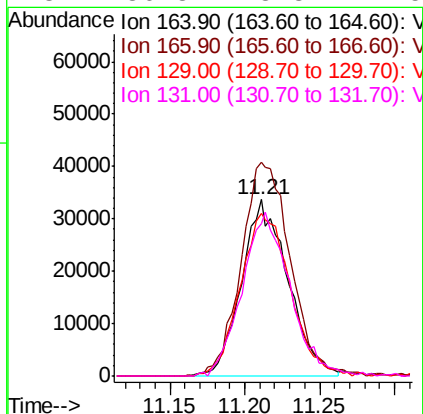
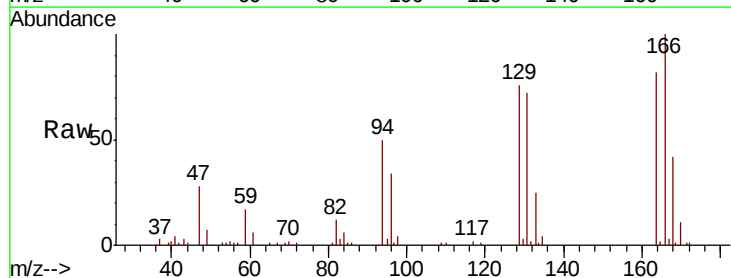
#51
 2-Hexanone
 Concen: 1.863 ppbv
 RT: 10.13
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 30 Mar 2022 20:42

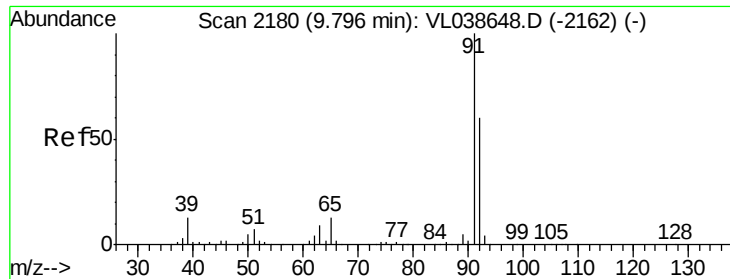
Tot Ion	43	Resp	254635
Ion Ratio	Lower	Upper	
43	100		
58	45.0	41.2	61.8
98	0.2	0.2	0.4



#52
 Tetrachloroethene
 Concen: 0.993 ppbv
 RT: 11.21 min Scan# 2620
 Delta R.T. -0.00 min
 Lab File: VL038803.D
 Acq: 30 Mar 2022 20:42

Tgt Ion	164	Resp	72558
Ion Ratio	Lower	Upper	
164	100		
166	120.8	103.3	154.9
129	95.4	85.2	127.8
131	86.8	78.3	117.5





#53

Toluene

Concen: 0.595 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

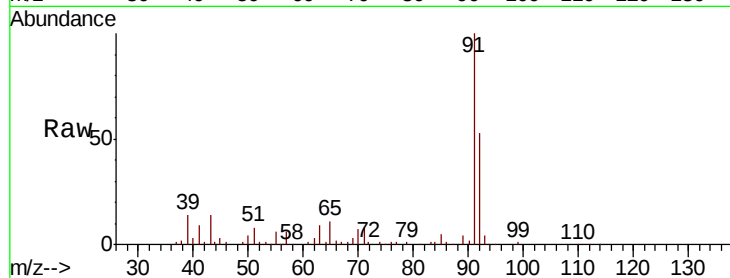
Acq: 30 Mar 2022 20:42

Tot Ion: 91 Resp: 127676

Ion Ratio Lower Upper

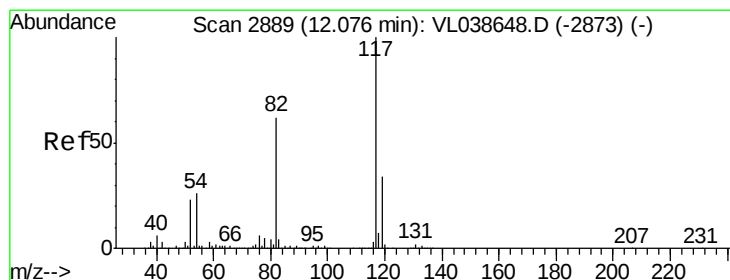
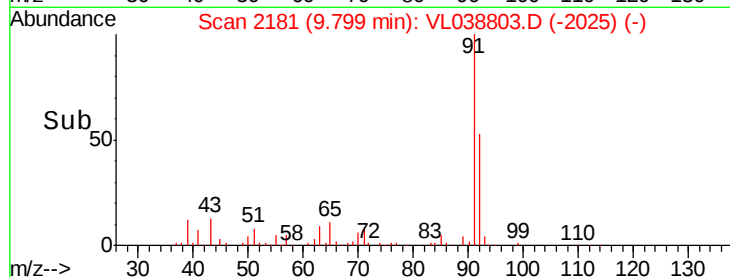
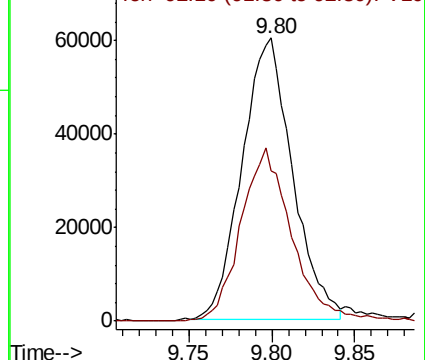
91 100

92 62.8 48.7 73.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. -0.00 min

Lab File: VL038803.D

Acq: 30 Mar 2022 20:42

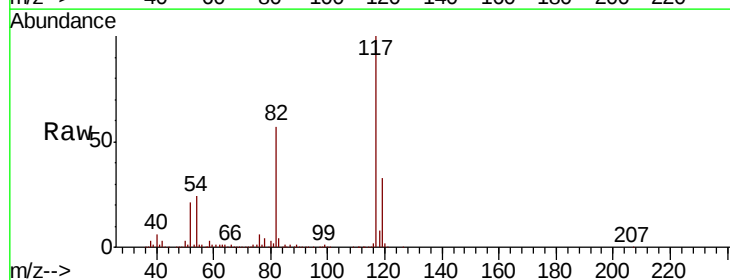
Tgt Ion: 117 Resp: 2331694

Ion Ratio Lower Upper

117 100

82 59.9 51.6 77.4

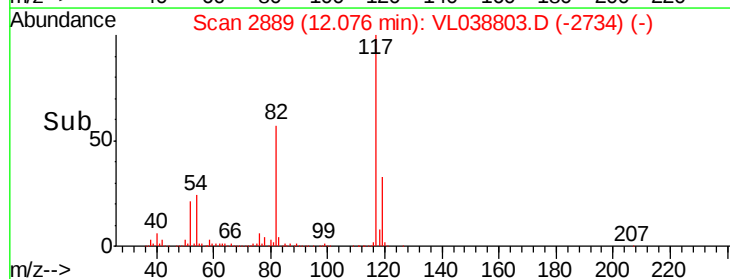
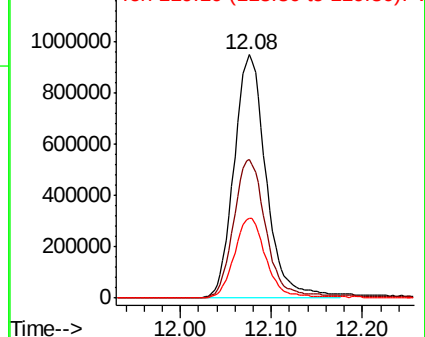
119 33.8 26.9 40.3

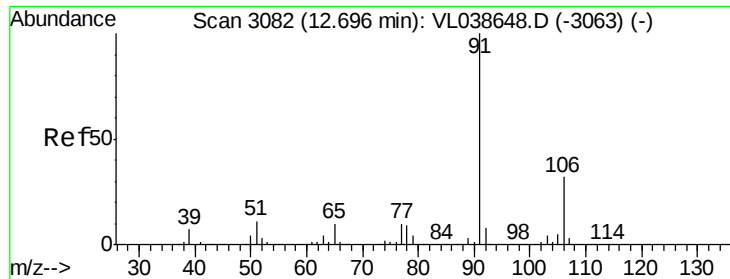


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

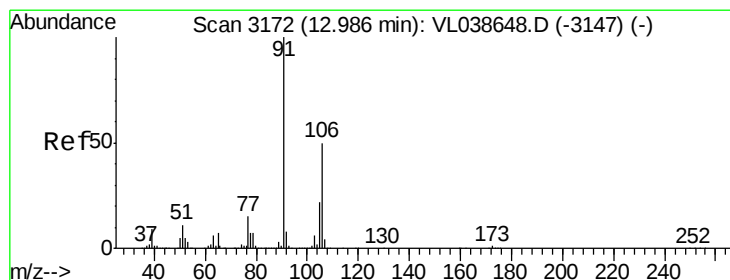
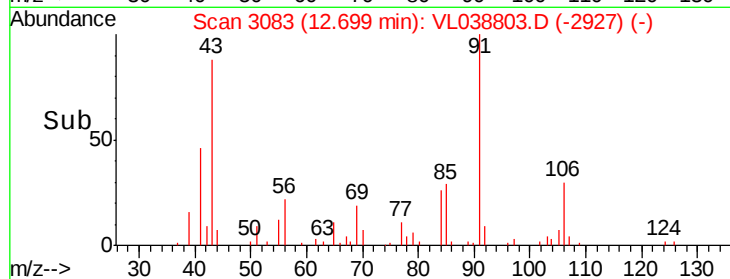
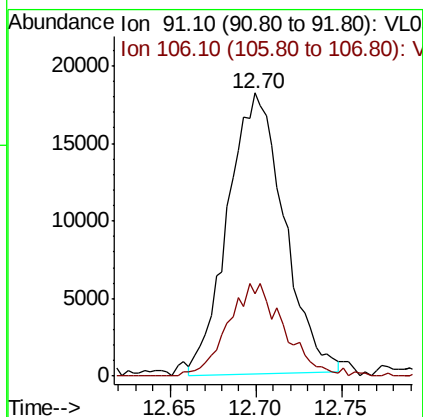
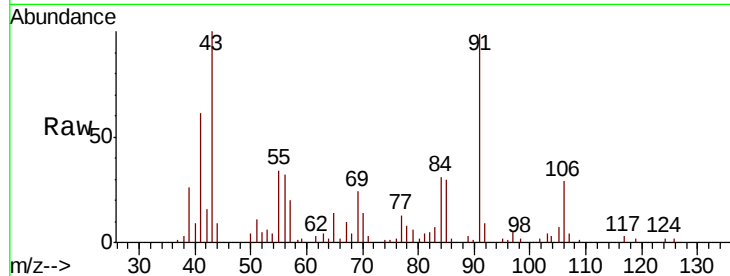
Ion 119.10 (118.80 to 119.80): V





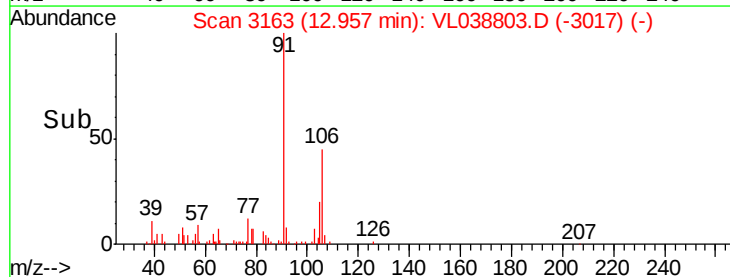
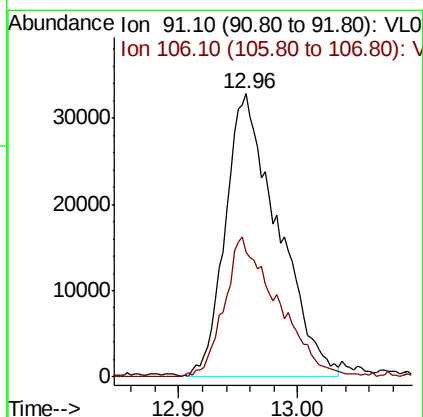
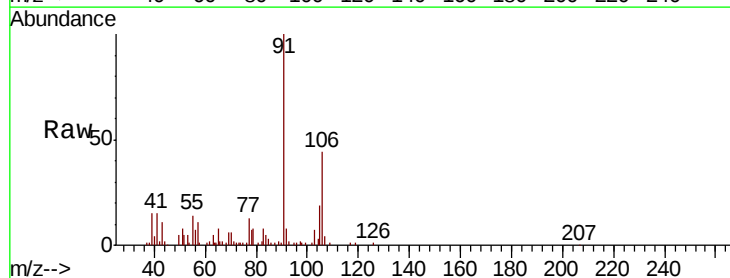
#58
Ethyl Benzene
Concen: 0.151 ppbv
RT: 12.70 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 30 Mar 2022 20:42

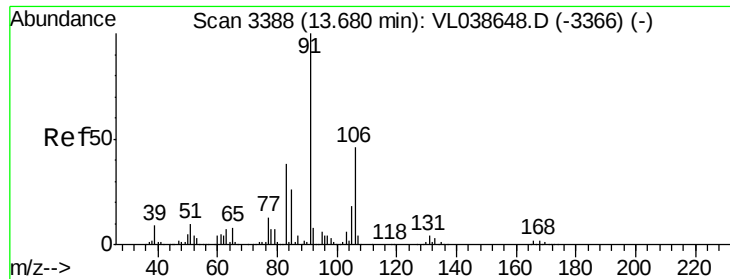
Tot Ion: 91 Resp: 41209
Ion Ratio Lower Upper
91 100
106 28.9 25.4 38.0



#59
m/p-Xylene
Concen: 0.421 ppbv
RT: 12.96 min Scan# 3163
Delta R.T. -0.03 min
Lab File: VL038803.D
Acq: 30 Mar 2022 20:42

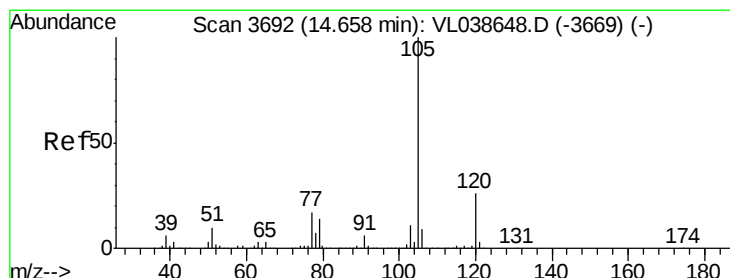
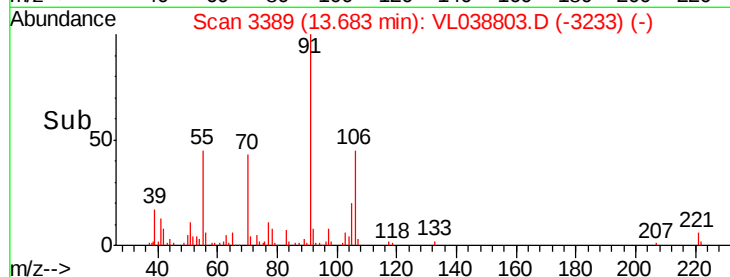
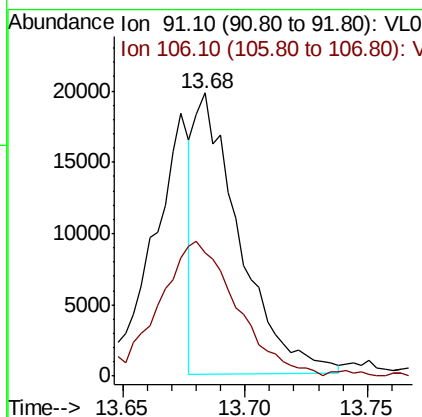
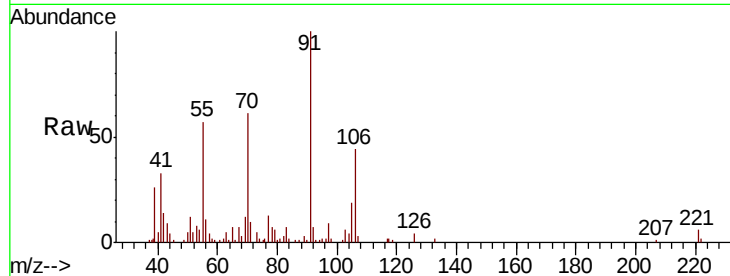
Tgt Ion: 91 Resp: 100354
Ion Ratio Lower Upper
91 100
106 50.1 37.2 55.8





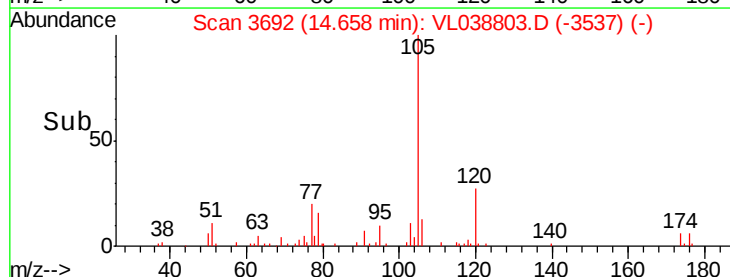
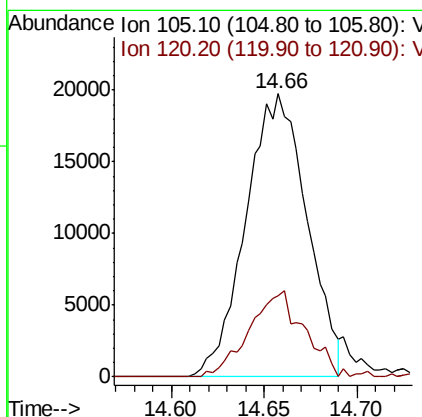
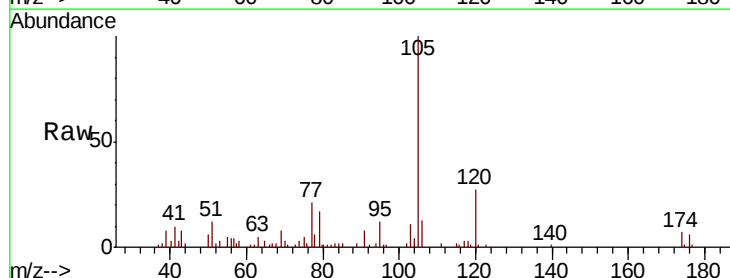
#60
o-Xylene
Concen: 0.111 ppbv
RT: 13.68 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 30 Mar 2022 20:42

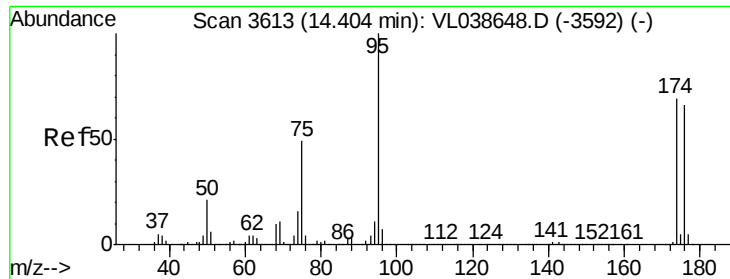
Tot Ion: 91 Resp: 25134
Ion Ratio Lower Upper
91 100
106 85.8 23.5 70.5#



#62
Isopropylbenzene
Concen: 0.133 ppbv
RT: 14.66 min Scan# 3692
Delta R.T.: -0.00 min
Lab File: VL038803.D
Acq: 30 Mar 2022 20:42

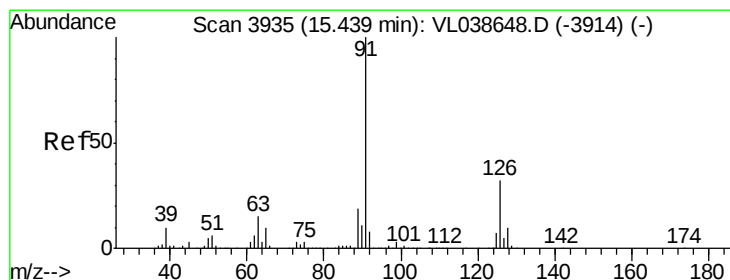
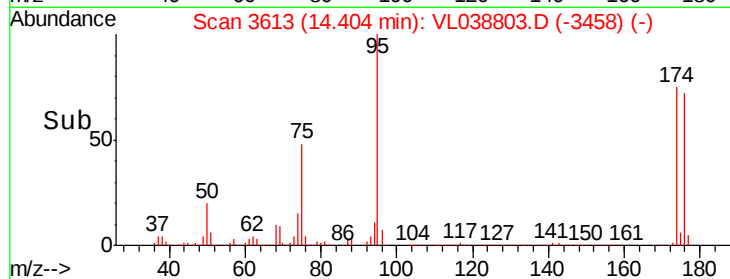
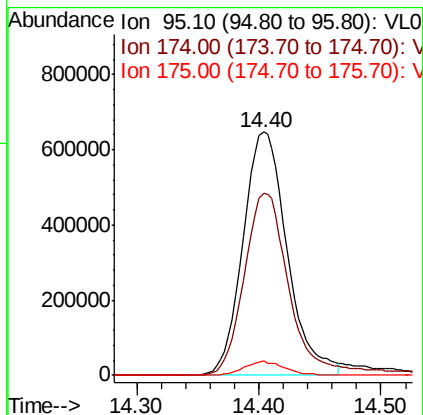
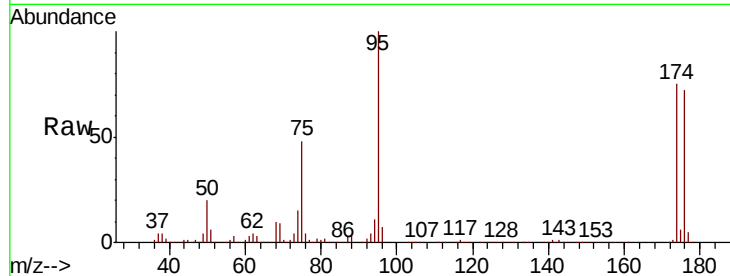
Tgt Ion: 105 Resp: 45348
Ion Ratio Lower Upper
105 100
120 27.7 21.2 31.8





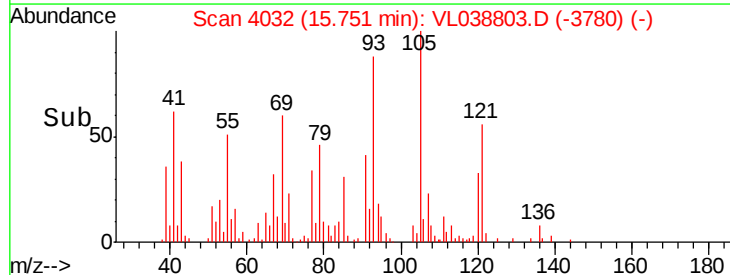
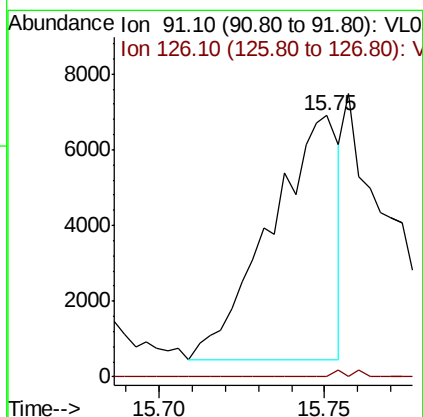
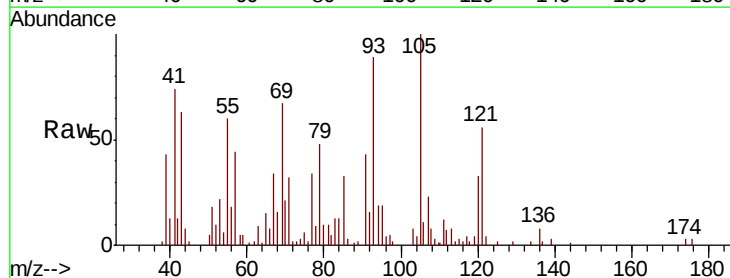
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.041 ppbv
 RT: 14.40 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 30 Mar 2022 20:42

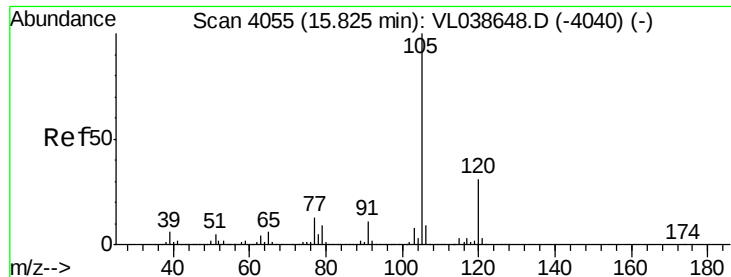
Tot Ion: 95 Resp: 1616301
 Ion Ratio Lower Upper
 95 100
 174 78.8 56.1 84.1
 175 5.8 4.2 6.2



#71
 2-Chlorotoluene
 Concen: 0.037 ppbv
 RT: 15.75 min Scan# 4032
 Delta R.T. 0.31 min
 Lab File: VL038803.D
 Acq: 30 Mar 2022 20:42

Tgt Ion: 91 Resp: 9250
 Ion Ratio Lower Upper
 91 100
 126 33.9 13.1 52.3





#72

4-Ethyltoluene

Concen: 0.032 ppbv

RT: 15.82

Delta R.T. MSVOA_L

Lab File:

Acq: 30 Mar 2022 20:42

Tot Ion:105 Resp: 8425

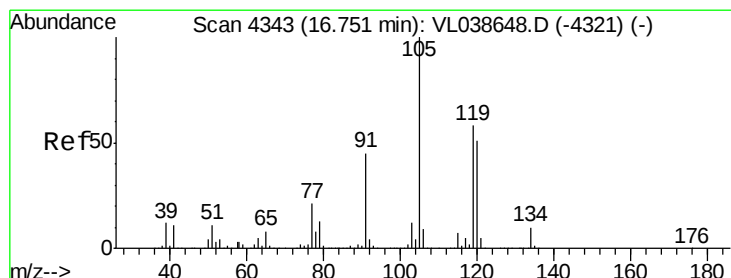
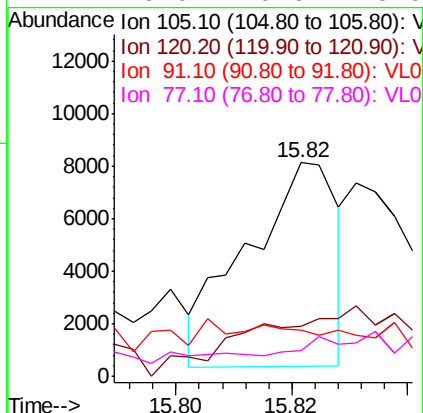
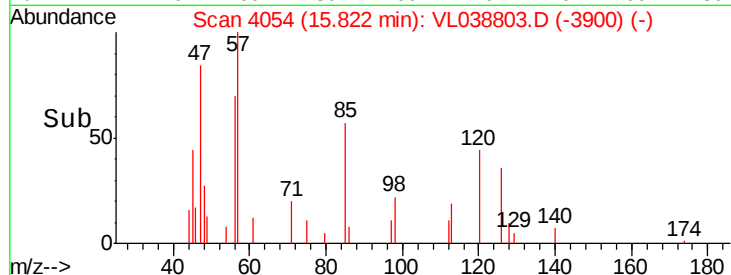
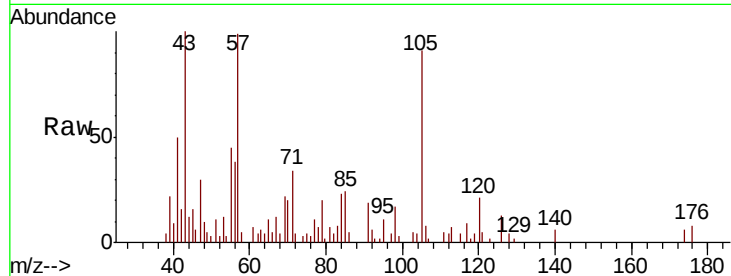
Ion Ratio Lower Upper

105 100

120 0.0 24.9 37.3#

91 0.0 9.8 14.6#

77 0.0 10.6 16.0#



#74

1,2,4-Trimethylbenzene

Concen: 0.187 ppbv

RT: 16.75 min Scan# 4344

Delta R.T. 0.00 min

Lab File: VL038803.D

Acq: 30 Mar 2022 20:42

Tgt Ion:105 Resp: 49626

Ion Ratio Lower Upper

105 100

120 42.7 40.5 60.7

91 9.3 35.9 53.9#

77 11.5 16.6 25.0#

