

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121020\
 Data File : VL036148.D
 Acq On : 11 Dec 2020 4:09
 Operator : SY/AP
 Sample : L5005-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 14 22:36:47 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020

QLast Update : Mon Dec 07 16:56:49 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1303049	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.16	114	2613087	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.07	117	2322104	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1995423	10.82	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.03	85	43662m	0.288	ppbv
3) Chlorodifluoromethane	2.97	51	152925	1.029	ppbv # 84
4) Chloromethane	3.13	50	66136m	0.906	ppbv
5) Vinyl Chloride	3.24	62	736	0.009	ppbv # 44
6) Bromomethane	3.47	94	461	0.011	ppbv # 39
7) Chloroethane	3.54	64	550	0.020	ppbv # 69
8) Dichlorotetrafluoroethane	3.17	85	1776	0.011	ppbv # 16
9) Propene	3.00	41	445432	5.981	ppbv 89
10) Heptane	8.10	43	32466m	0.171	ppbv
11) Trichlorofluoromethane	3.93	101	42386	0.237	ppbv # 82
12) 1,1,2-Trichlorotrifluoroet	4.47	101	3477	0.029	ppbv # 1
13) Ethanol	3.60	45	6133122	597.368	ppbv 85
14) Bromoethene	3.73	108	105	0.002	ppbv # 1
15) Acetone	3.84	43	1919111	12.254	ppbv 95
18) 1,1-Dichloroethene	4.28	96	270	0.005	ppbv # 1
20) Methylene Chloride	4.33	84	1122094	17.485	ppbv 94
21) Allyl Chloride	4.40	41	1500	0.014	ppbv # 18
22) trans-1,2-Dichloroethene	4.88	96	53	0.001	ppbv 84
24) 1,1-Dichloroethane	5.00	63	399	0.003	ppbv # 88
25) Ethyl Acetate	5.66	43	1090598	3.486	ppbv # 94
26) Hexane	5.67	57	773298	5.492	ppbv # 64
27) Carbon Disulfide	4.54	76	1506	0.011	ppbv # 14
28) Methyl tert-Butyl Ether	5.02	73	831	0.004	ppbv # 51
29) Chloroform	5.74	83	51084m	0.276	ppbv
30) Cyclohexane	7.11	84	2558	0.025	ppbv # 1
32) 1,1,1-Trichloroethane	6.50	97	1015	0.005	ppbv # 21
34) 2-Butanone	5.24	43	69225	0.399	ppbv 94
35) Carbon Tetrachloride	7.00	117	13811m	0.091	ppbv
36) Benzene	6.88	78	64452	0.291	ppbv # 87
38) Trichloroethene	7.82	130	1642	0.020	ppbv # 58
40) 1,4-Dioxane	7.81	88	47	0.002	ppbv # 1
42) Bromodichloromethane	7.77	83	544	0.003	ppbv # 25
43) Methyl Methacrylate	7.99	69	637	0.007	ppbv # 1
44) 2,2,4-Trimethylpentane	7.86	57	50268	0.125	ppbv # 69
45) t-1,3-Dichloropropene	9.26	75	123	0.001	ppbv # 45
46) cis-1,3-Dichloropropene	8.59	75	85	0.001	ppbv # 71
47) 1,1,2-Trichloroethane	9.46	97	295	0.004	ppbv # 31
48) Dibromochloromethane	10.36	129	110	0.001	ppbv 97
49) Bromoform	13.01	173	161	0.002	ppbv # 51
50) 4-Methyl-2-Pentanone	8.71	43	1007	0.004	ppbv # 40
51) 2-Hexanone	10.11	43	1597	0.008	ppbv # 29

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020

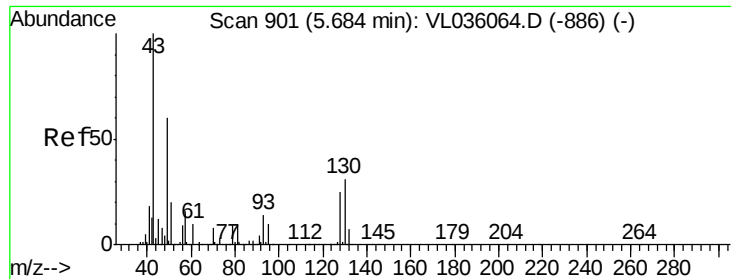
QLast Update : Mon Dec 07 16:56:49 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

52) Tetrachloroethene	11.21	164	15098m	0.188	ppbv	
53) Toluene	9.79	91	362167	1.456	ppbv	99
54) 1,2-Dibromoethane	10.58	107	137	0.001	ppbv #	2
56) 1,1,1,2-Tetrachloroethane	12.13	131	38	0.000	ppbv #	1
57) Chlorobenzene	12.13	112	1044	0.006	ppbv	94
58) Ethyl Benzene	12.70	91	38790m	0.122	ppbv	
59) m/p-Xylene	12.96	91	114124m	0.426	ppbv	
60) o-Xylene	13.68	91	45124m	0.179	ppbv	
61) Styrene	13.52	104	3750	0.023	ppbv #	1
62) Isopropylbenzene	14.65	105	2418	0.006	ppbv #	50
63) 1,1,2,2-Tetrachloroethane	13.67	83	309	0.002	ppbv #	25
64) n-propylbenzene	15.54	120	247	0.003	ppbv #	1
65) tert-Butylbenzene	16.71	119	134	0.000	ppbv #	15
66) Benzyl Chloride	16.97	91	181	0.002	ppbv #	66
67) sec-Butylbenzene	17.27	105	784	0.002	ppbv #	60
70) n-Butylbenzene	18.52	91	378	0.001	ppbv #	1
71) 2-Chlorotoluene	15.45	91	835	0.003	ppbv	70
72) 4-Ethyltoluene	15.82	105	7158	0.026	ppbv #	53
75) 1,3-Dichlorobenzene	16.97	146	258	0.002	ppbv #	1
76) 1,4-Dichlorobenzene	17.12	146	779	0.006	ppbv #	22
77) 1,2-Dichlorobenzene	17.80	146	112	0.001	ppbv #	1
78) Hexachloro-1,3-Butadiene	23.36	225	212	0.002	ppbv #	65
79) Naphthalene	22.18	128	388	0.003	ppbv #	64
80) Naphthalene,2-methyl-	25.07	142	206	0.007	ppbv #	25
81) 1,2,4-Trichlorobenzene	21.91	180	168	0.002	ppbv #	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.03 min

Lab File: VL036148.D

Acq: 11 Dec 2020 4:09

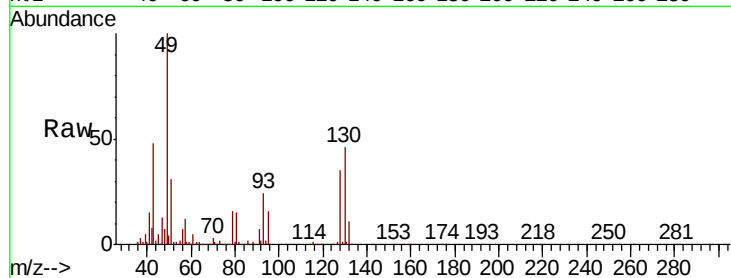
Tot Ion: 49 Resp: 1303049

Ion Ratio Lower Upper

49 100

128 35.2 21.1 63.1

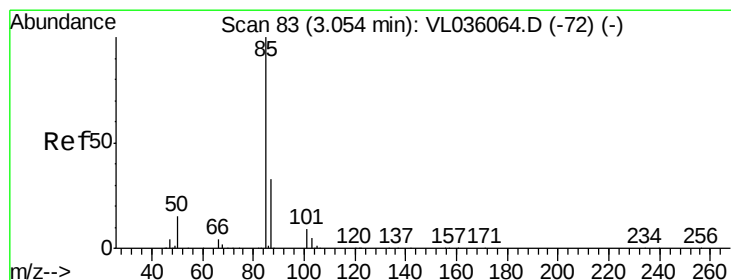
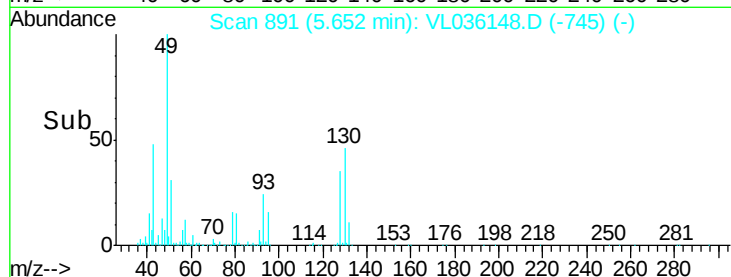
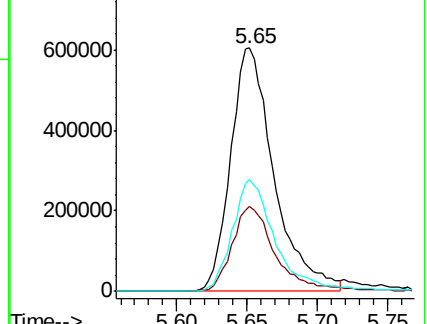
130 46.1 27.1 81.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.288 ppbv m

RT: 3.03 min Scan# 77

Delta R.T. -0.02 min

Lab File: VL036148.D

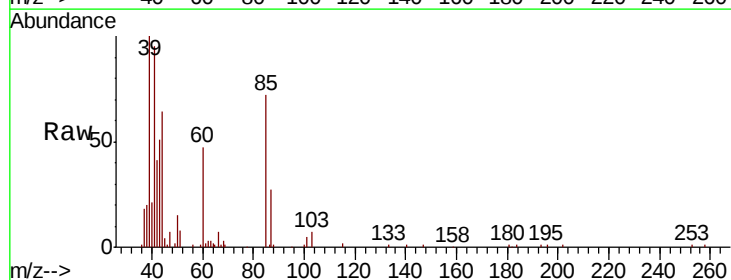
Acq: 11 Dec 2020 4:09

Tgt Ion: 85 Resp: 43662

Ion Ratio Lower Upper

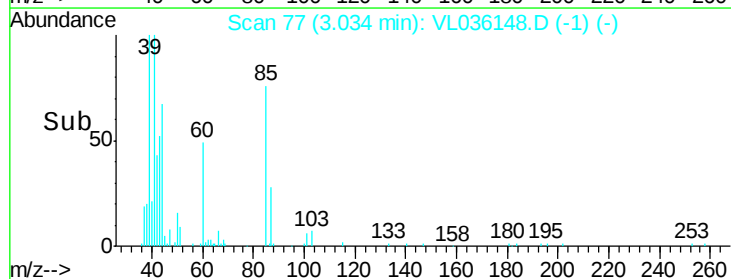
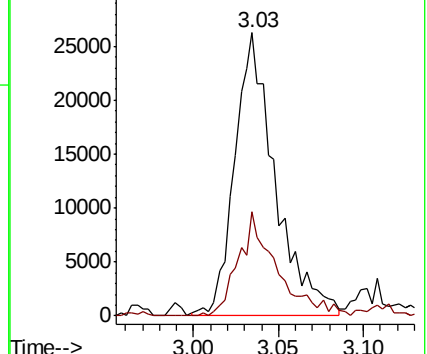
85 100

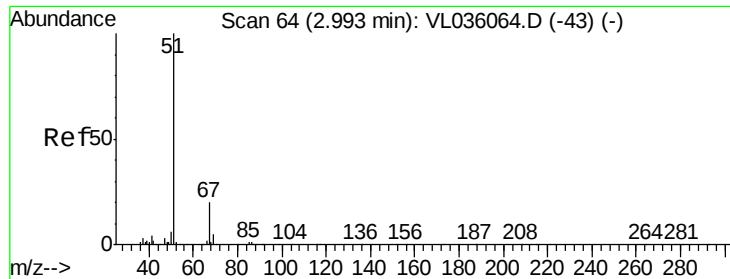
87 36.8 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.029 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.02 min

Lab File: VL036148.D

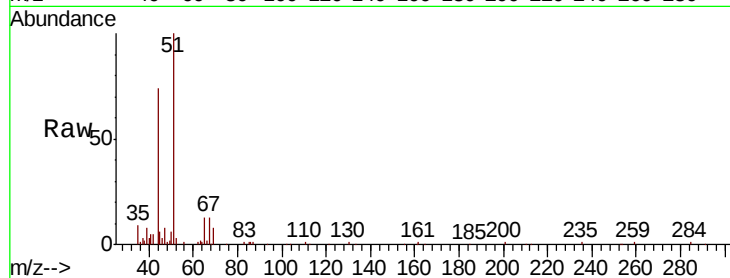
Acq: 11 Dec 2020 4:09

Tot Ion: 51 Resp: 152925

Ion Ratio Lower Upper

51 100

67 10.8 14.3 21.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.97

60000

50000

40000

30000

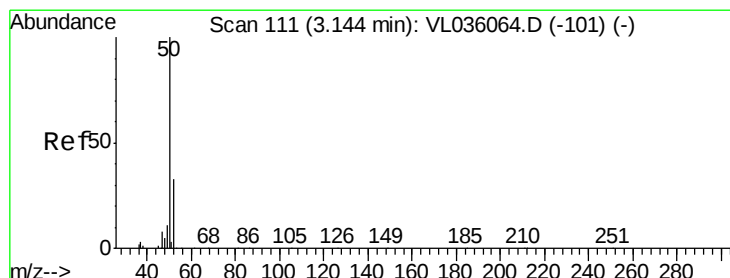
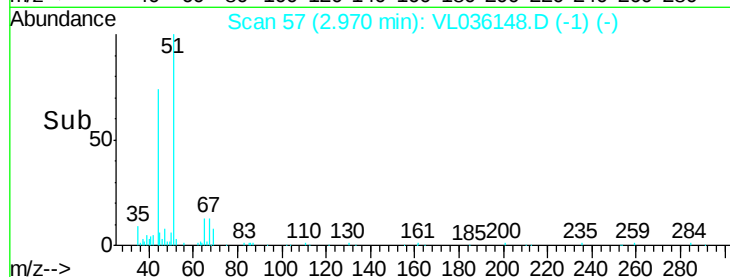
20000

10000

0

Time-->

2.80 2.90 3.00 3.10



#4

Chloromethane

Concen: 0.906 ppbv m

RT: 3.13 min Scan# 106

Delta R.T. -0.02 min

Lab File: VL036148.D

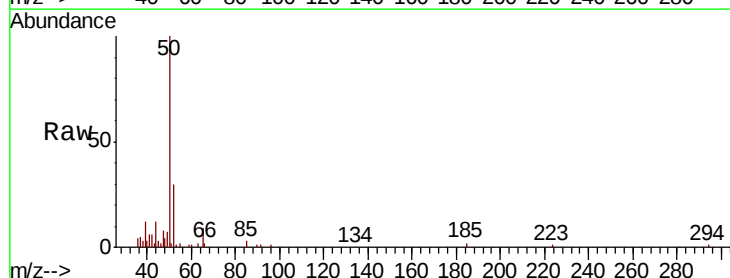
Acq: 11 Dec 2020 4:09

Tgt Ion: 50 Resp: 66136

Ion Ratio Lower Upper

50 100

52 29.9 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.13

40000

30000

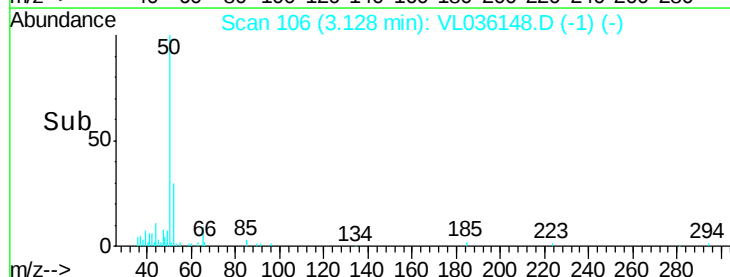
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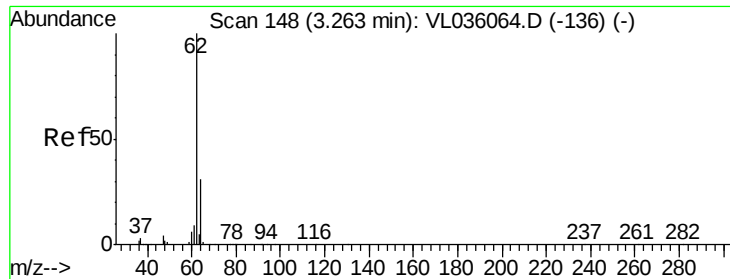
10000

0

Time-->

3.05 3.10 3.15 3.20





#5

Vinyl Chloride

Concen: 0.009 ppbv

RT: 3.24 min Scan# 142

Delta R.T. -0.02 min

Lab File: VL036148.D

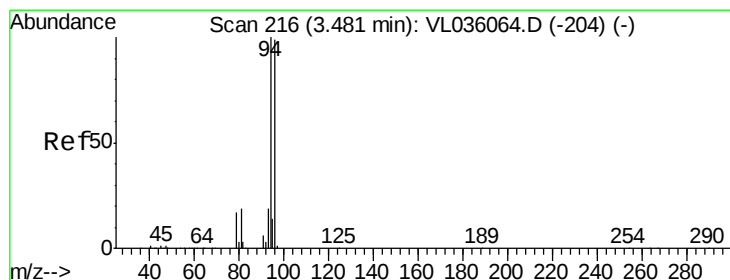
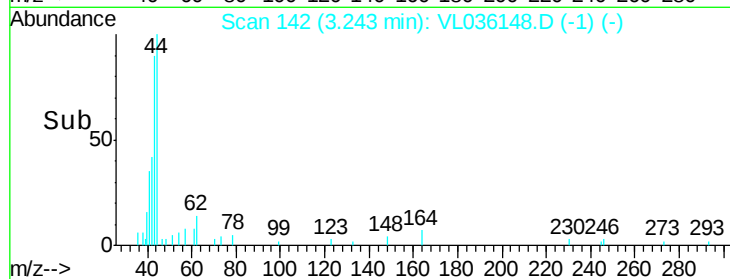
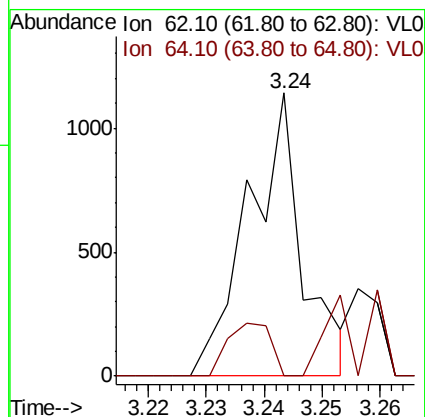
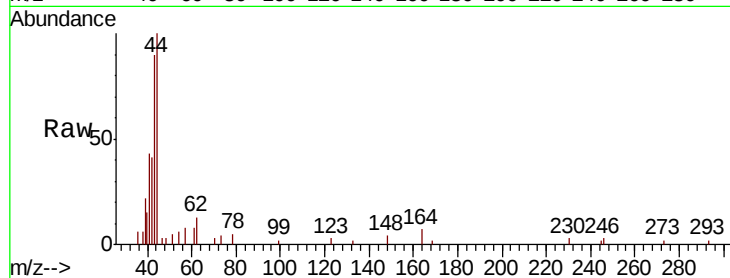
Acq: 11 Dec 2020 4:09

Tot Ion: 62 Resp: 736

Ion Ratio Lower Upper

62 100

64 0.0 24.5 36.7#



#6

Bromomethane

Concen: 0.011 ppbv

RT: 3.47 min Scan# 211

Delta R.T. -0.02 min

Lab File: VL036148.D

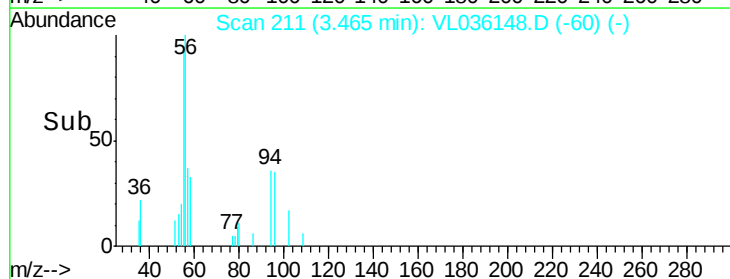
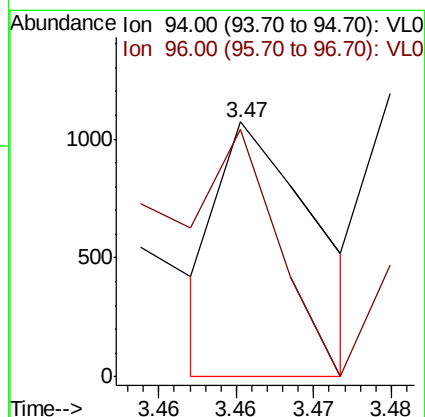
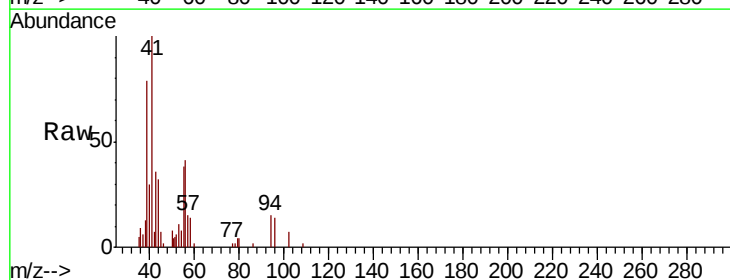
Acq: 11 Dec 2020 4:09

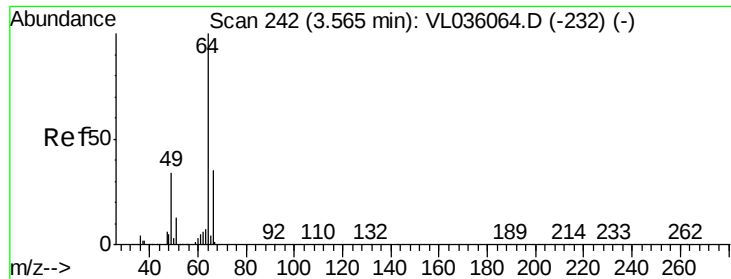
Tgt Ion: 94 Resp: 461

Ion Ratio Lower Upper

94 100

96 159.9 79.4 119.0#





#7

Chloroethane

Concen: 0.020 ppbv

RT: 3.54 min Scan# 235

Delta R.T. -0.02 min

Lab File: VL036148.D

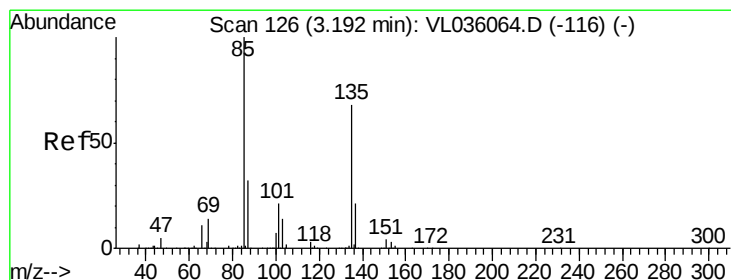
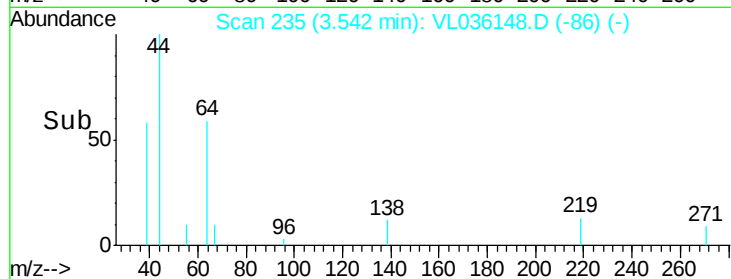
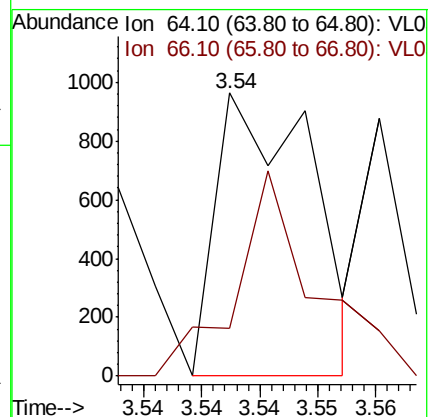
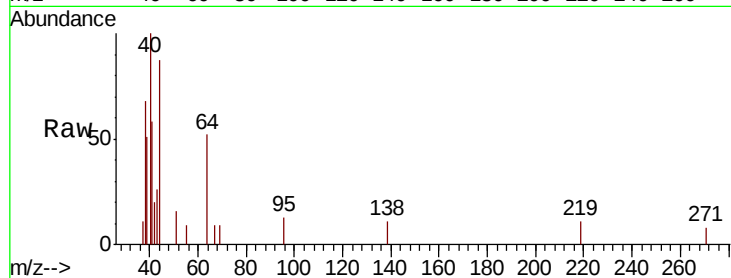
Acq: 11 Dec 2020 4:09

Tot Ion: 64 Resp: 550

Ion Ratio Lower Upper

64 100

66 16.7 27.7 41.5#



#8

Dichlorotetrafluoroethane

Concen: 0.011 ppbv

RT: 3.17 min Scan# 119

Delta R.T. -0.02 min

Lab File: VL036148.D

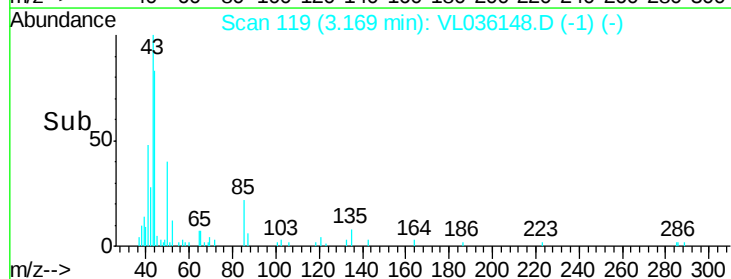
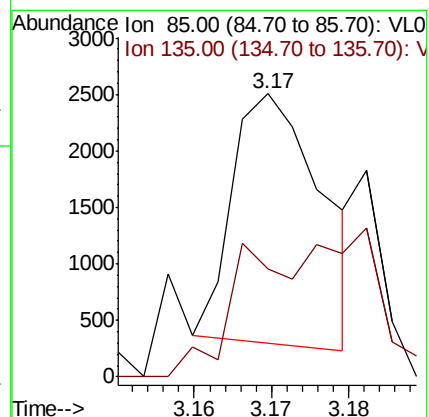
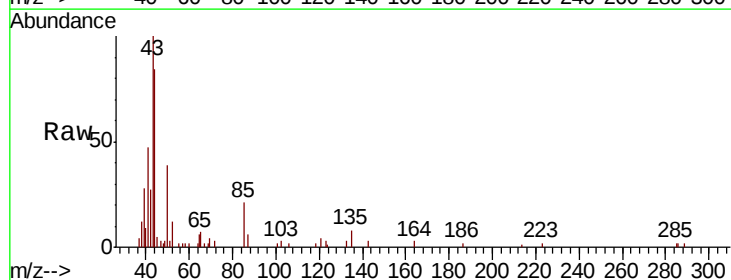
Acq: 11 Dec 2020 4:09

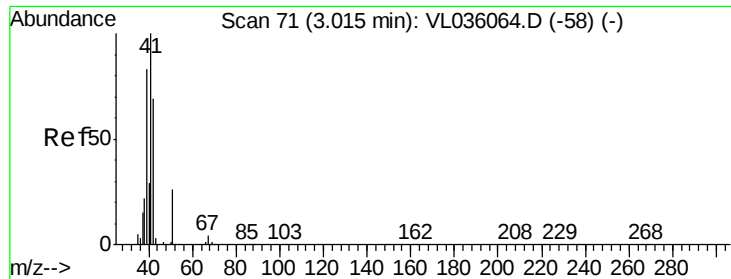
Tgt Ion: 85 Resp: 1776

Ion Ratio Lower Upper

85 100

135 0.0 53.8 80.8#





#9

Propene

Concen: 5.981 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.02 min

Lab File: VL036148.D

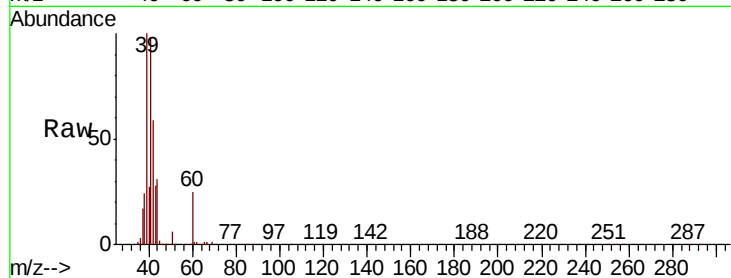
Acq: 11 Dec 2020 4:09

Tot Ion: 41 Resp: 445432

Ion Ratio Lower Upper

41 100

42 62.0 57.0 85.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.00

250000

200000

150000

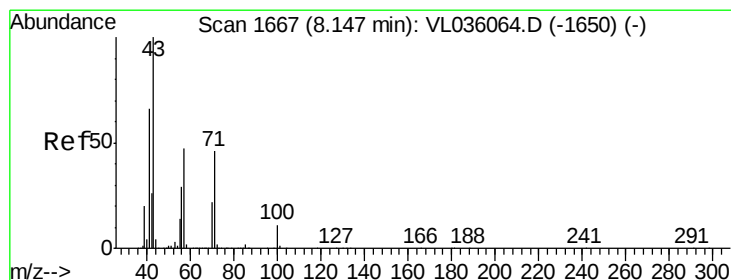
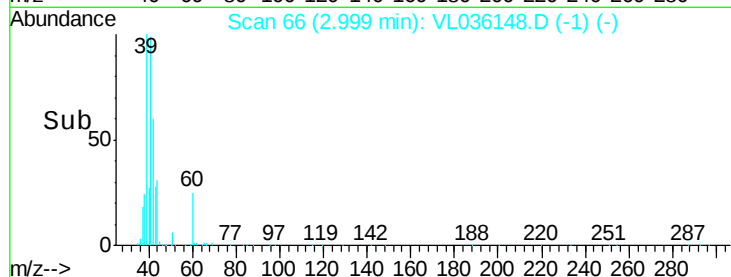
100000

50000

0

Time-->

2.95 3.00 3.05



#10

Heptane

Concen: 0.171 ppbv m

RT: 8.10 min Scan# 1652

Delta R.T. -0.05 min

Lab File: VL036148.D

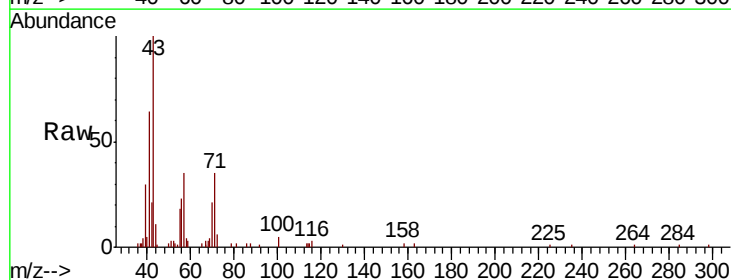
Acq: 11 Dec 2020 4:09

Tgt Ion: 43 Resp: 32466

Ion Ratio Lower Upper

43 100

57 0.0 37.9 56.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.10

15000

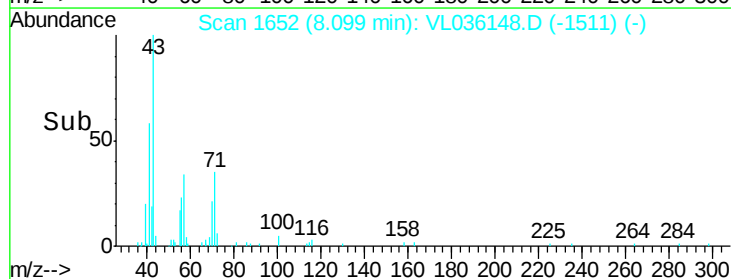
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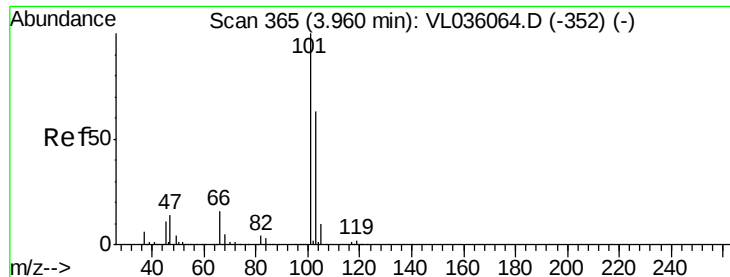
5000

0

Time-->

8.05 8.10 8.15





#11

Trichlorofluoromethane

Concen: 0.237 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.03 min

Lab File: VL036148.D

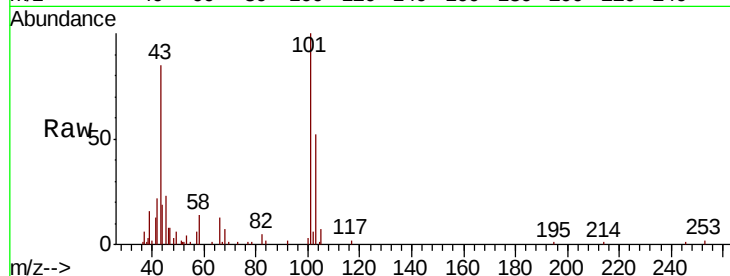
Acq: 11 Dec 2020 4:09

Tot Ion:101 Resp: 42386

Ion Ratio Lower Upper

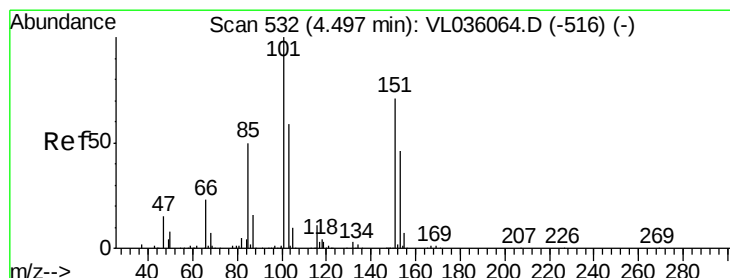
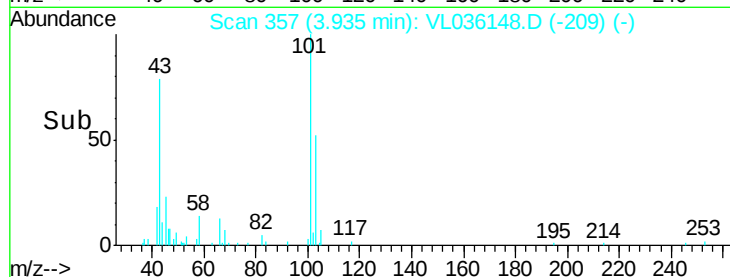
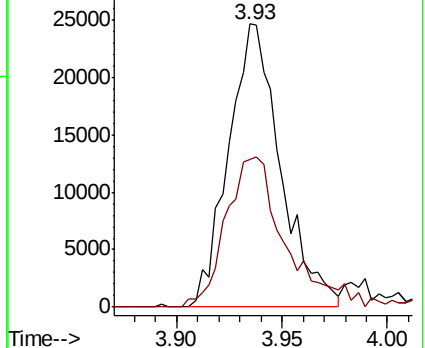
101 100

103 49.3 50.3 75.5#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.029 ppbv

RT: 4.47 min Scan# 524

Delta R.T. -0.03 min

Lab File: VL036148.D

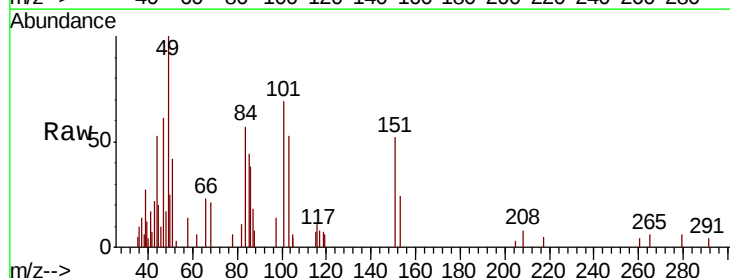
Acq: 11 Dec 2020 4:09

Tgt Ion:101 Resp: 3477

Ion Ratio Lower Upper

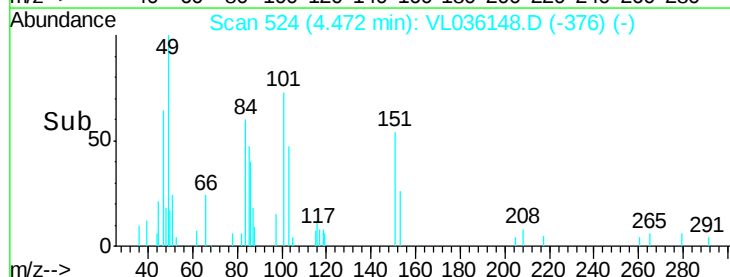
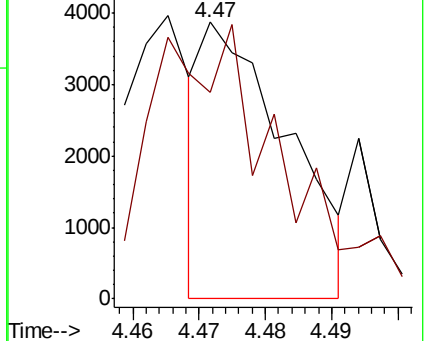
101 100

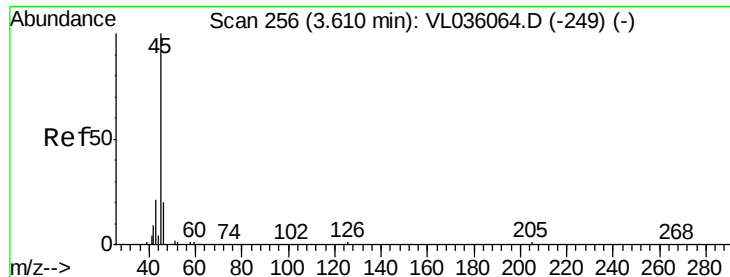
151 173.4 59.3 88.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 597.368 ppbv

RT: 3.60 min Scan# 253

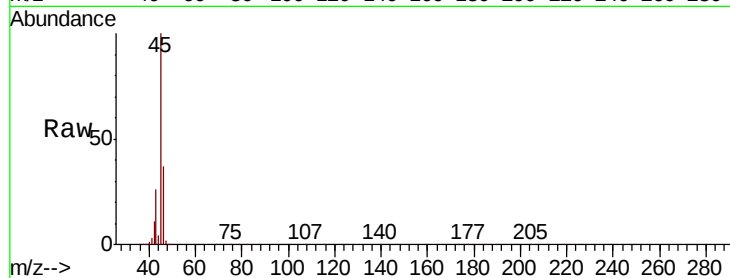
Delta R.T. -0.01 min

Lab File: VL036148.D

Acq: 11 Dec 2020 4:09

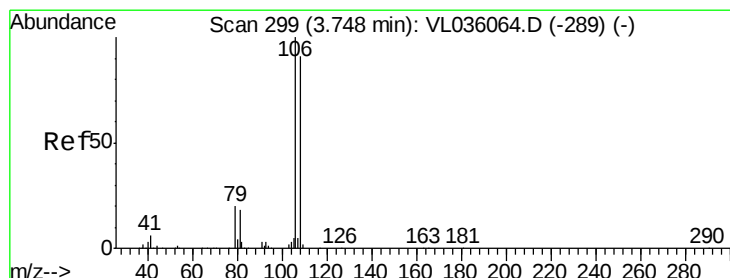
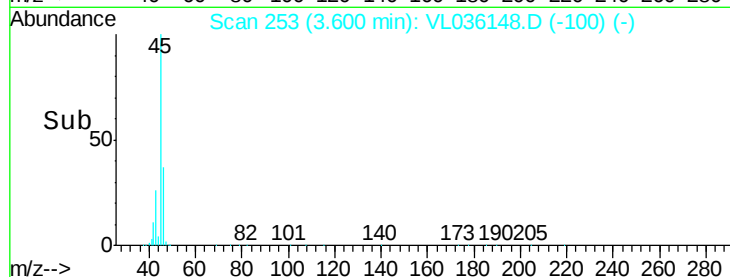
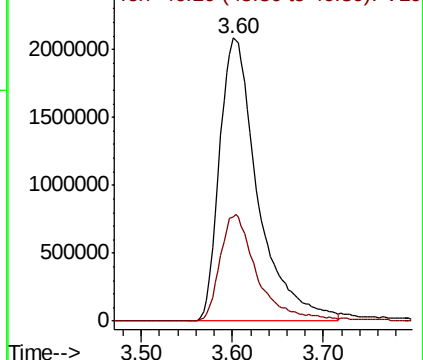
Tot Ion: 45 Resp: 6133122

Ion	Ratio	Lower	Upper
45	100		
46	37.3	19.0	75.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 0.002 ppbv

RT: 3.73 min Scan# 292

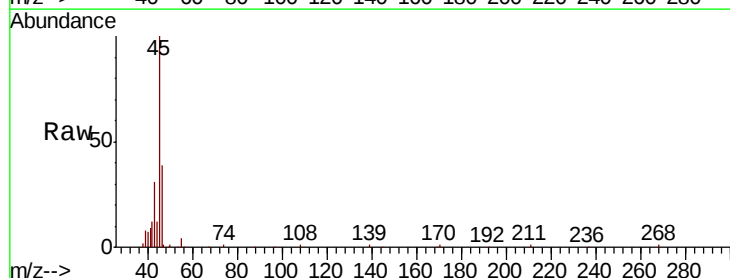
Delta R.T. -0.02 min

Lab File: VL036148.D

Acq: 11 Dec 2020 4:09

Tgt Ion: 108 Resp: 105

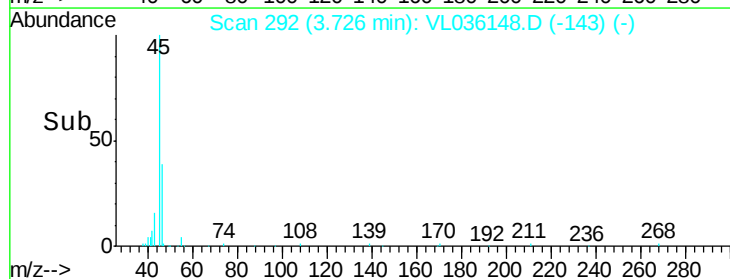
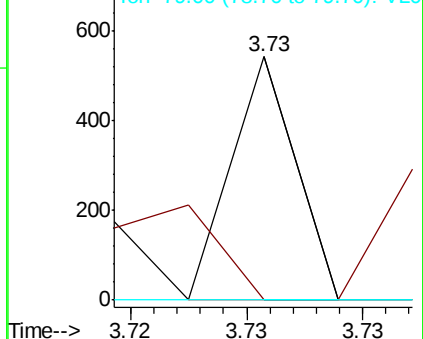
Ion	Ratio	Lower	Upper
108	100		
106	237.1	91.0	136.4#
79	77.1	19.3	28.9#

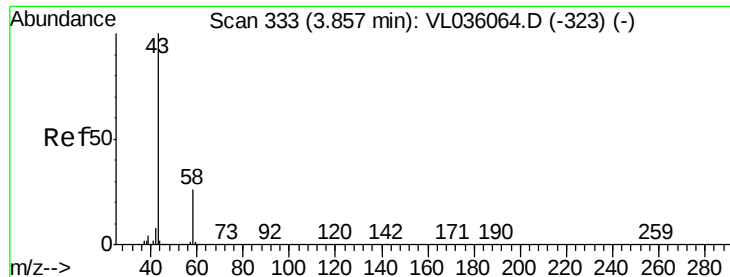


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 12.254 ppbv

RT: 3.84 min Scan# 326

Delta R.T. -0.02 min

Lab File: VL036148.D

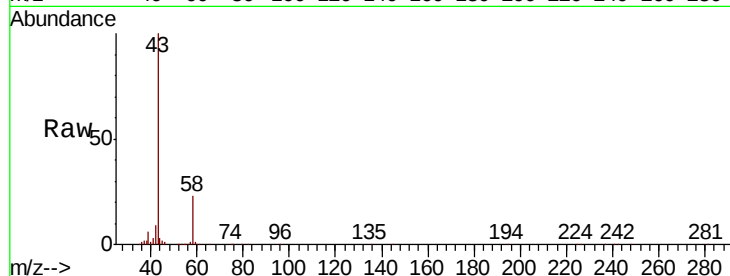
Acq: 11 Dec 2020 4:09

Tot Ion: 43 Resp: 1919111

Ion Ratio Lower Upper

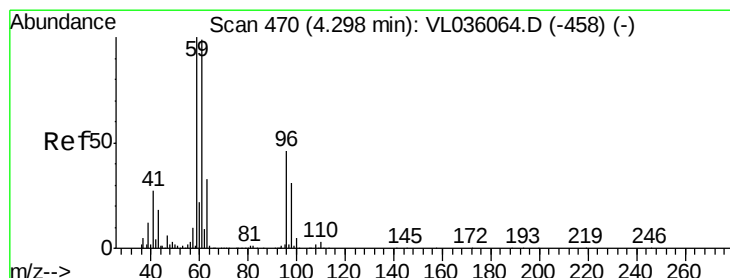
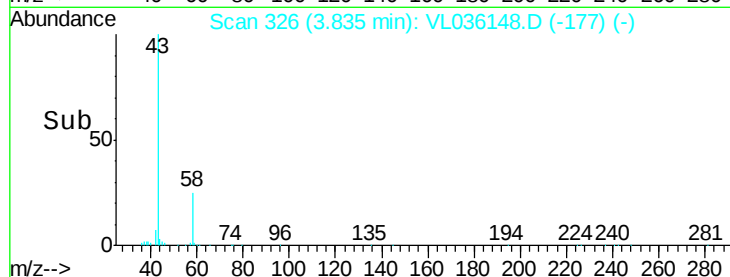
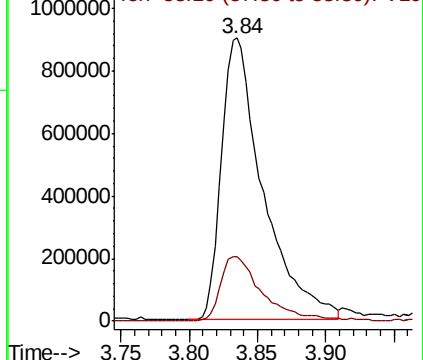
43 100

58 23.6 20.9 31.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#18

1,1-Dichloroethene

Concen: 0.005 ppbv

RT: 4.28 min Scan# 464

Delta R.T. -0.02 min

Lab File: VL036148.D

Acq: 11 Dec 2020 4:09

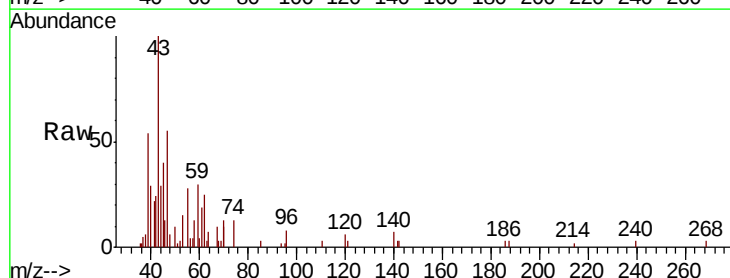
Tgt Ion: 96 Resp: 270

Ion Ratio Lower Upper

96 100

61 10.4 171.4 257.2#

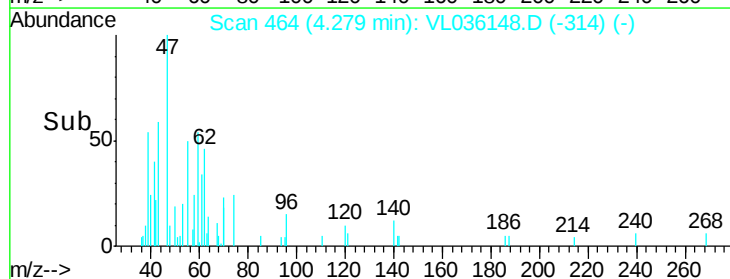
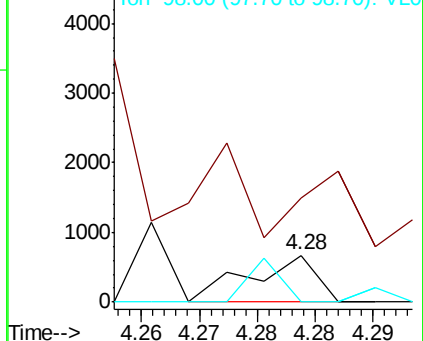
98 0.0 54.2 81.2#

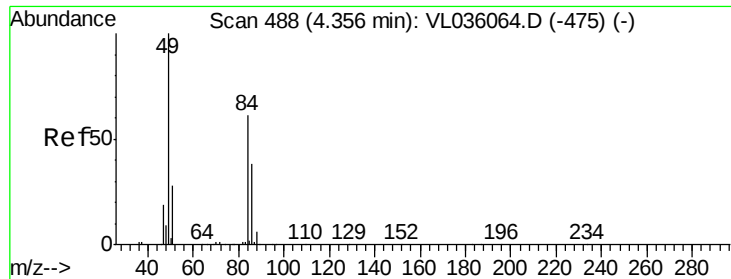


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

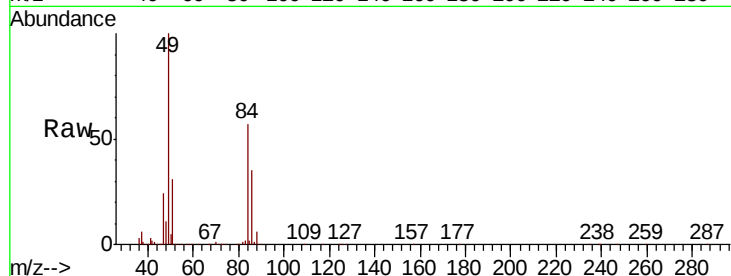




#20
Methvlene Chloride
Concen: 17.485 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.03 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

Tot Ion: 84 Resp: 1122094

Ion	Ratio	Lower	Upper
84	100		
49	176.0	133.0	199.4
51	53.6	38.9	58.3
86	61.6	48.8	73.2



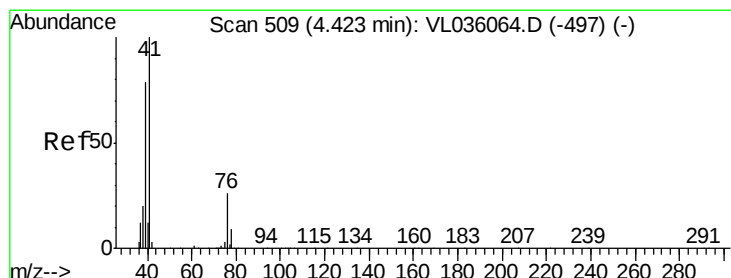
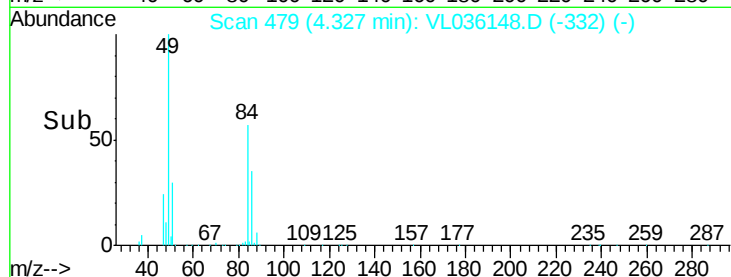
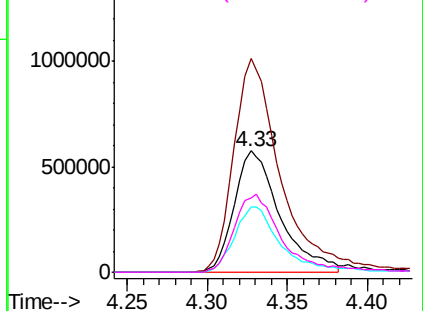
Abundance

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

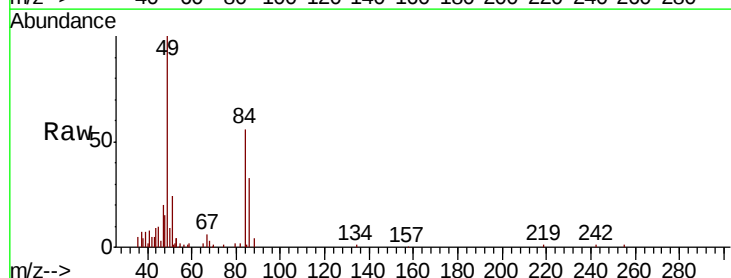
Ion 86.00 (85.70 to 86.70): VL0



#21
Allyl Chloride
Concen: 0.014 ppbv
RT: 4.40 min Scan# 502
Delta R.T. -0.02 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

Tgt Ion: 41 Resp: 1500

Ion	Ratio	Lower	Upper
41	100		
76	0.0	21.0	31.4#
39	0.0	66.0	99.0#

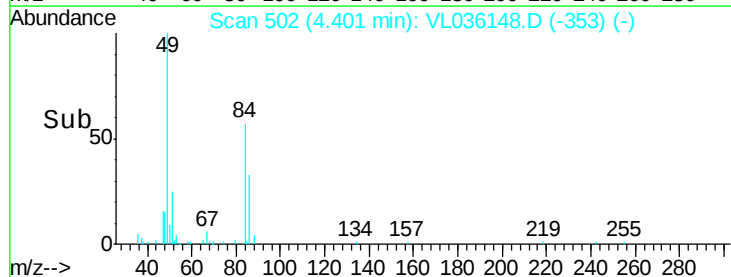
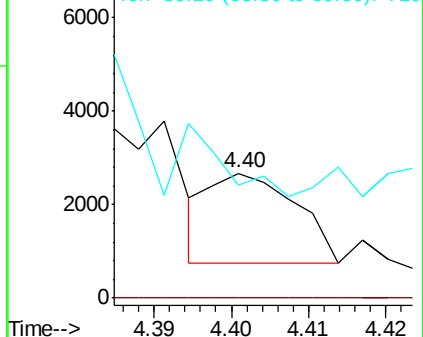


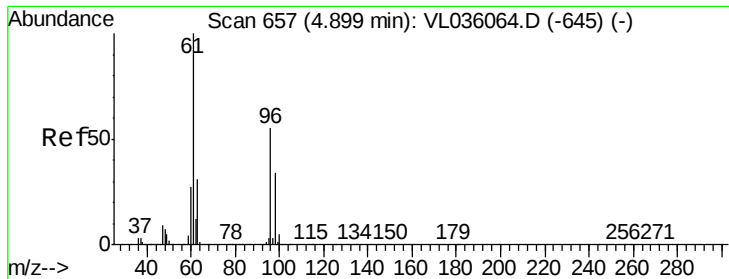
Abundance

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





#22

trans-1,2-Dichloroethene

Concen: 0.001 ppbv

RT: 4.88 min Scan# 650

Delta R.T. -0.02 min

Lab File: VL036148.D

Acq: 11 Dec 2020 4:09

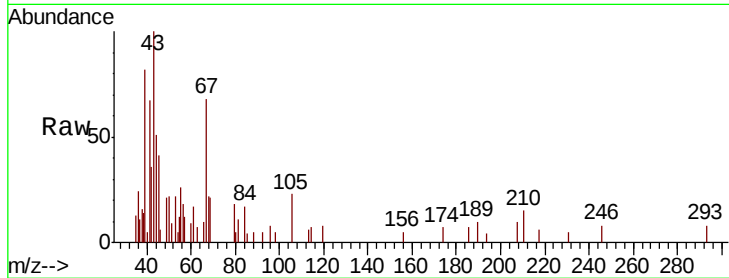
Tot Ion: 96 Resp: 53

Ion Ratio Lower Upper

96 100

61 209.5 145.7 218.5

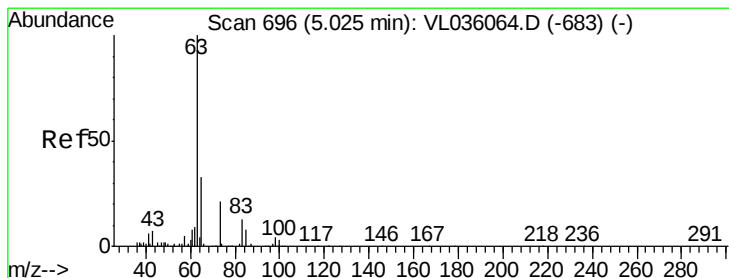
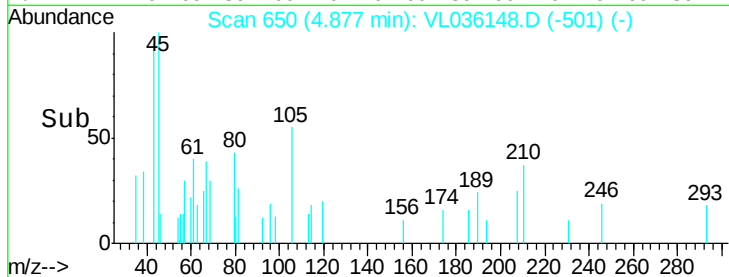
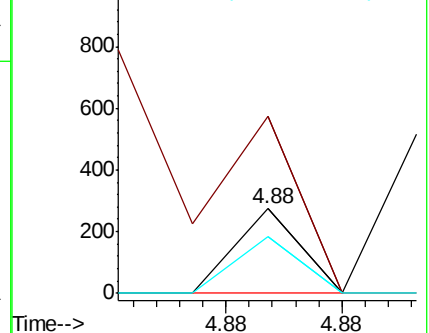
98 67.5 49.2 73.8



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



#24

1,1-Dichloroethane

Concen: 0.003 ppbv

RT: 5.00 min Scan# 688

Delta R.T. -0.03 min

Lab File: VL036148.D

Acq: 11 Dec 2020 4:09

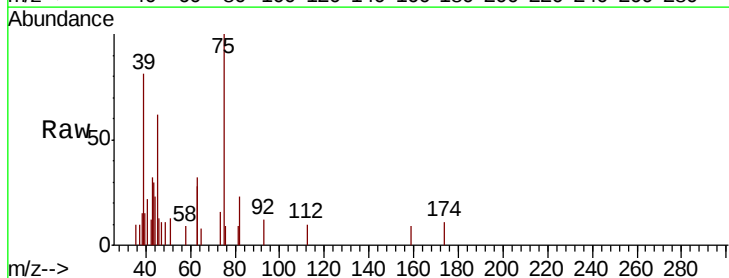
Tgt Ion: 63 Resp: 399

Ion Ratio Lower Upper

63 100

98 0.0 2.2 6.6#

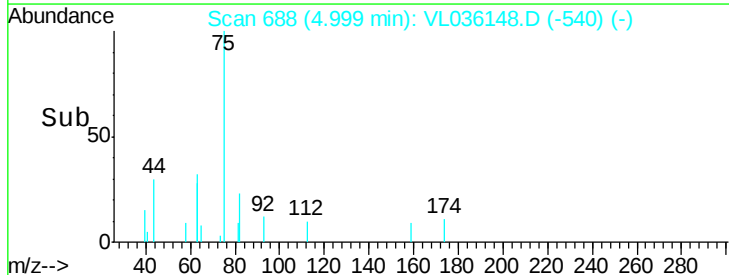
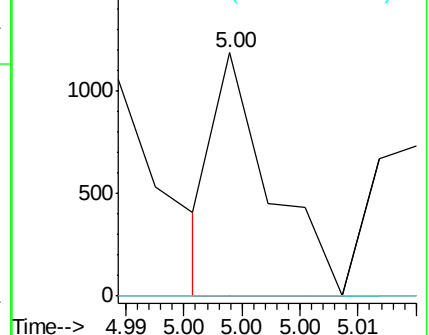
100 0.0 1.5 4.4#

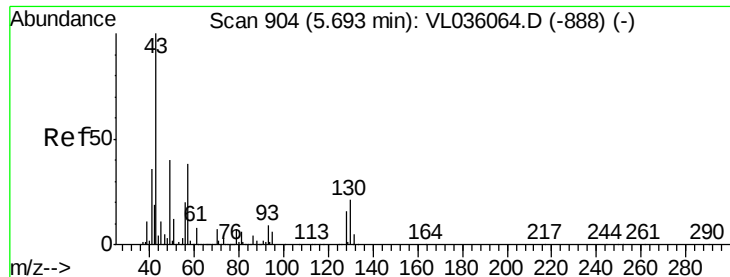


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 3.486 ppbv

RT: 5.66 min Scan# 895

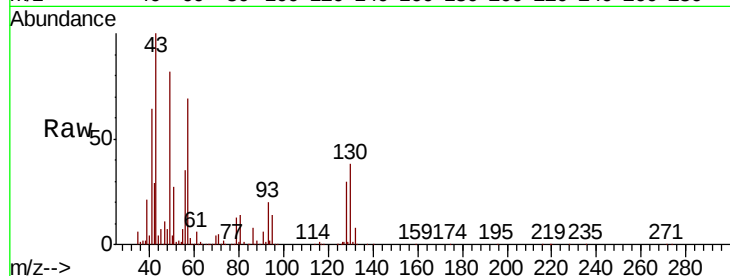
Delta R.T. -0.03 min

Lab File: VL036148.D

Acq: 11 Dec 2020 4:09

Tot Ion: 43 Resp: 1090598

Ion	Ratio	Lower	Upper
43	100		
45	7.9	8.2	12.4#
61	6.2	7.4	11.2#
70	5.4	5.4	8.0



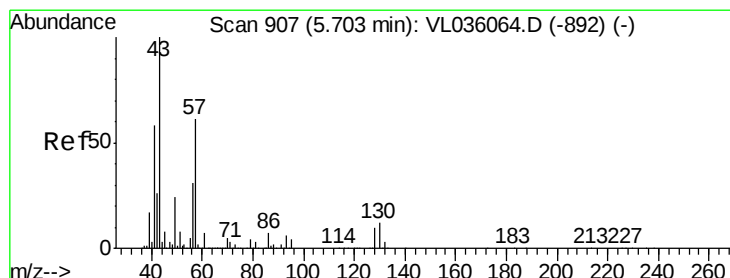
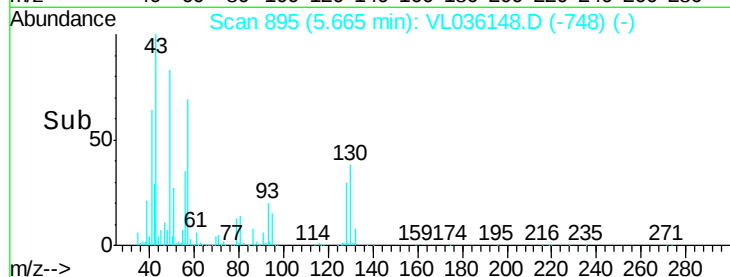
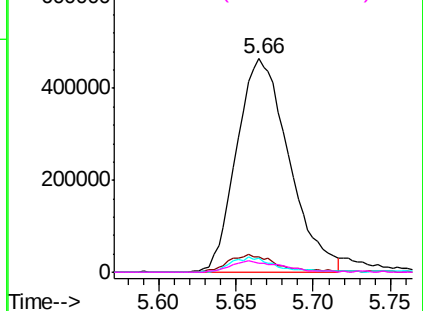
Abundance

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: 5.492 ppbv

RT: 5.67 min Scan# 897

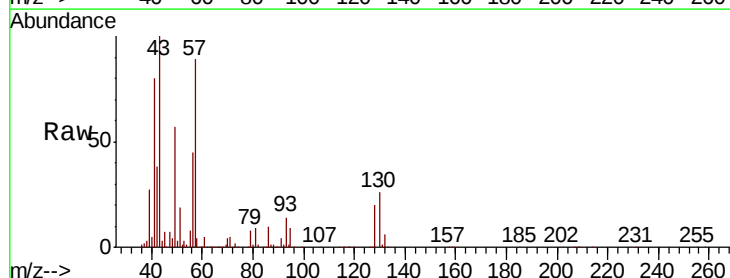
Delta R.T. -0.03 min

Lab File: VL036148.D

Acq: 11 Dec 2020 4:09

Tgt Ion: 57 Resp: 773298

Ion	Ratio	Lower	Upper
57	100		
41	98.4	82.9	124.3
43	150.6	199.9	299.9#
56	53.3	43.1	64.7



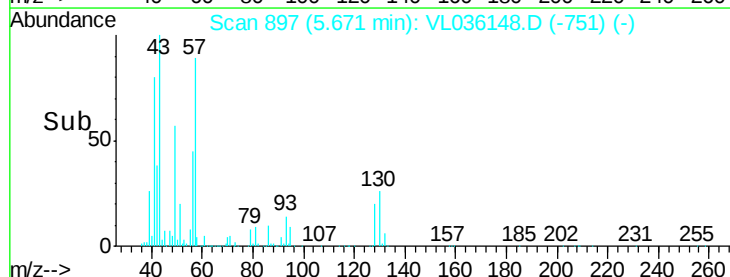
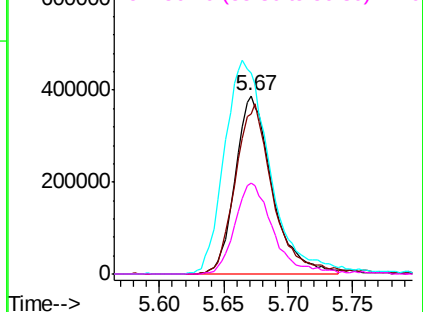
Abundance

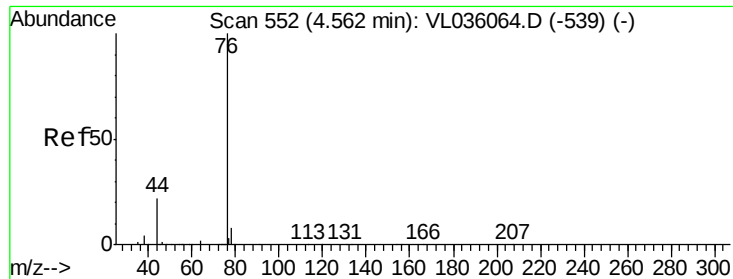
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

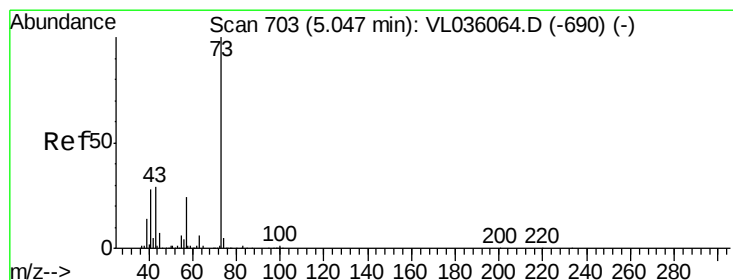
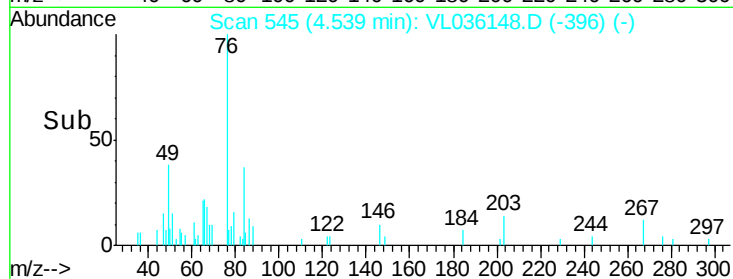
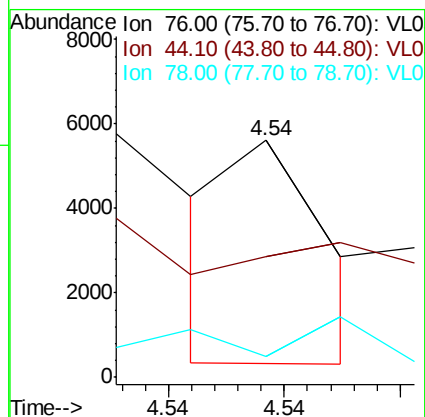
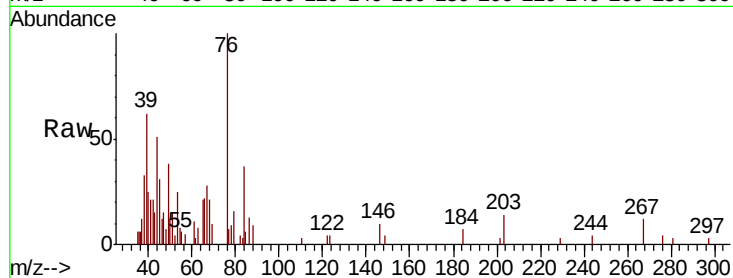
Ion 56.10 (55.80 to 56.80): VL0





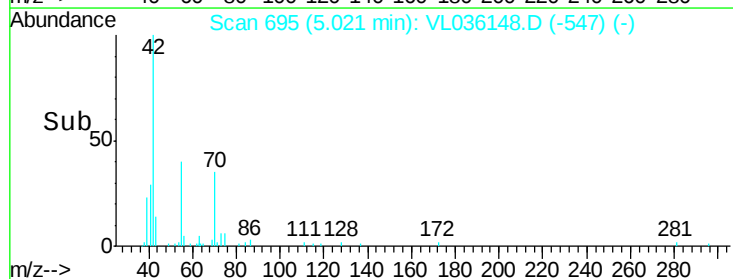
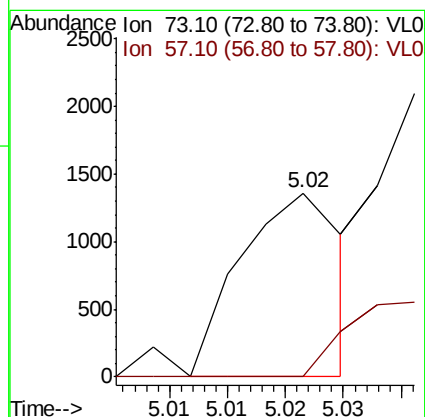
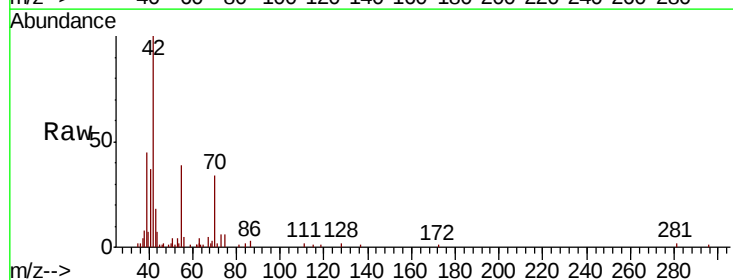
#27
Carbon Disulfide
Concen: 0.011 ppbv
RT: 4.54 min Scan# 545
Delta R.T. -0.02 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

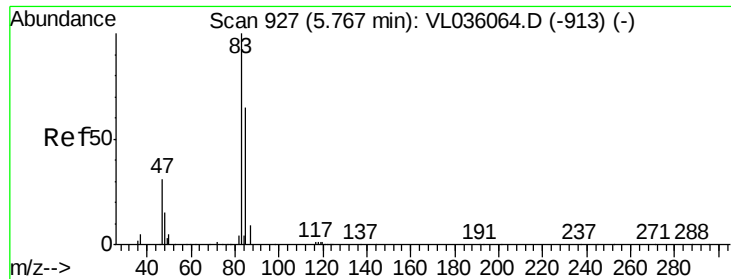
Tot Ion: 76 Resp: 1506
Ion Ratio Lower Upper
76 100
44 0.0 17.9 26.9#
78 75.2 7.8 11.8#



#28
Methyl tert-Butyl Ether
Concen: 0.004 ppbv
RT: 5.02 min Scan# 695
Delta R.T. -0.03 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

Tgt Ion: 73 Resp: 831
Ion Ratio Lower Upper
73 100
57 0.0 19.2 28.8#





#29

Chloroform

Concen: 0.276 ppbv m

RT: 5.74 min Scan# 917

Delta R.T. -0.03 min

Lab File: VL036148.D

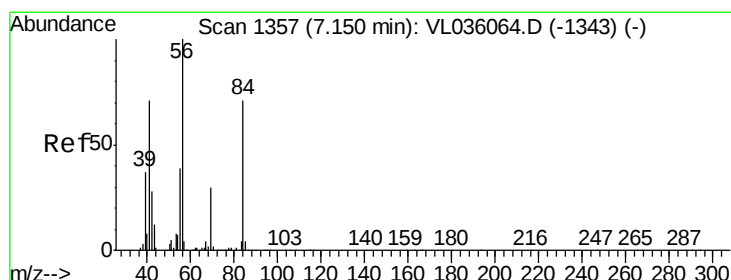
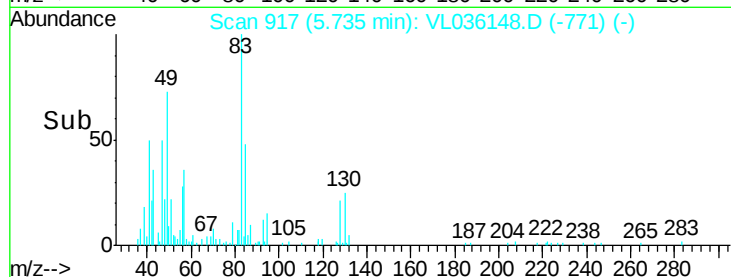
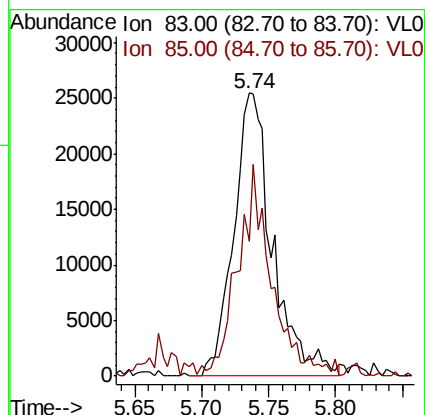
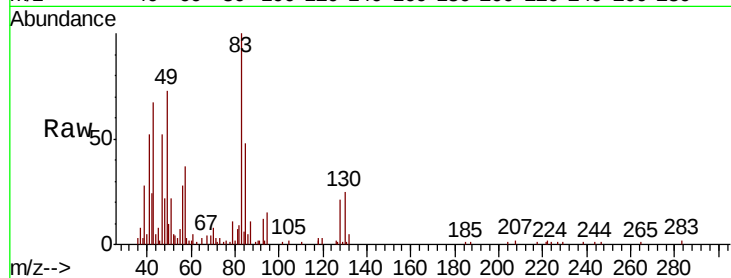
Acq: 11 Dec 2020 4:09

Tot Ion: 83 Resp: 51084

Ion Ratio Lower Upper

83 100

85 47.6 51.8 77.6#



#30

Cyclohexane

Concen: 0.025 ppbv

RT: 7.11 min Scan# 1346

Delta R.T. -0.04 min

Lab File: VL036148.D

Acq: 11 Dec 2020 4:09

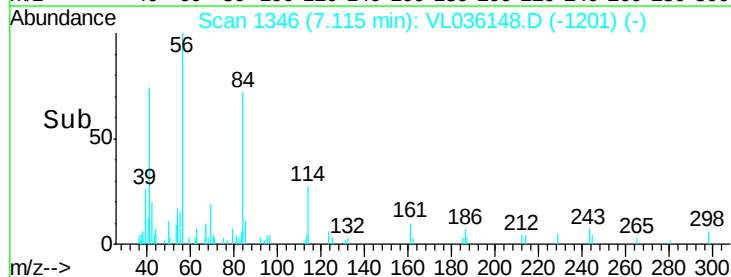
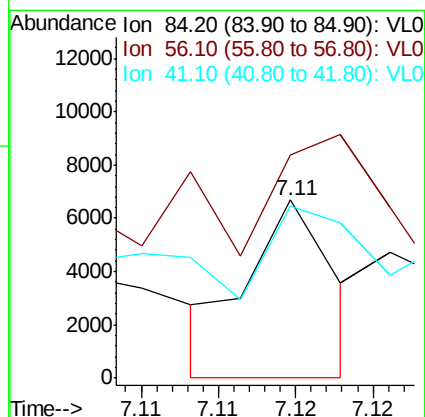
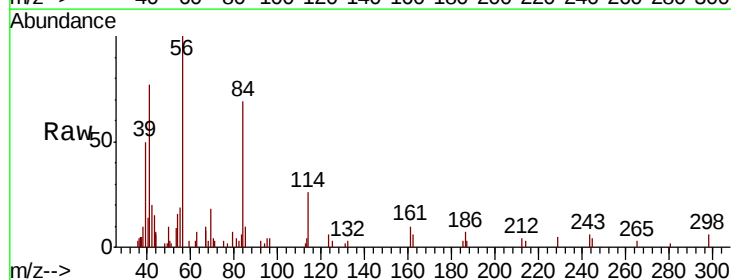
Tgt Ion: 84 Resp: 2558

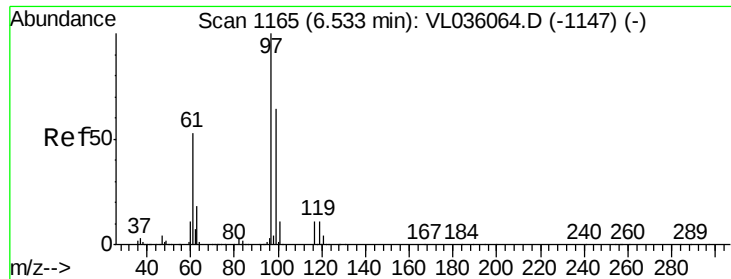
Ion Ratio Lower Upper

84 100

56 0.0 128.0 192.0#

41 563.8 81.3 121.9#





#32

1,1,1-Trichloroethane

Concen: 0.005 ppbv

RT: 6.50 min Scan# 1154

Delta R.T. -0.04 min

Lab File: VL036148.D

Acq: 11 Dec 2020 4:09

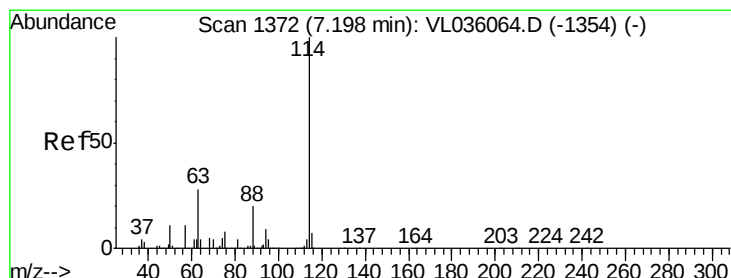
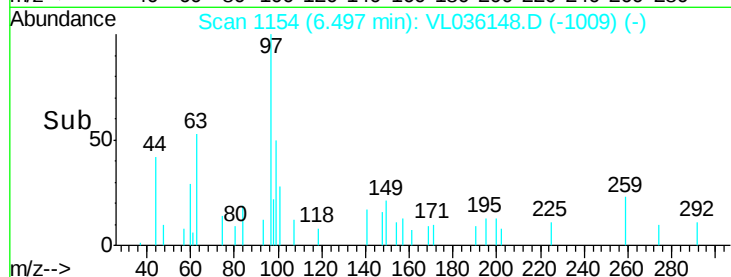
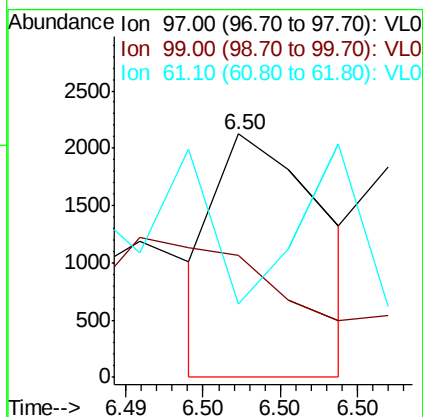
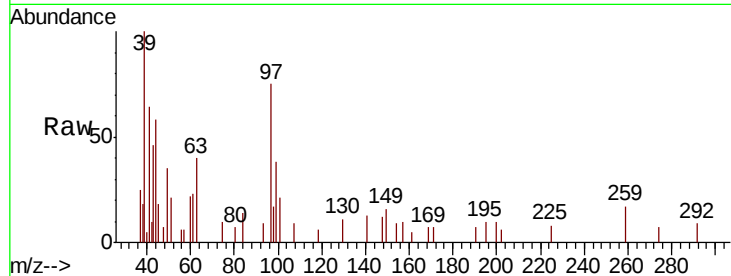
Tot Ion: 97 Resp: 1015

Ion Ratio Lower Upper

97 100

99 0.0 52.4 78.6#

61 0.0 43.4 65.0#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.04 min

Lab File: VL036148.D

Acq: 11 Dec 2020 4:09

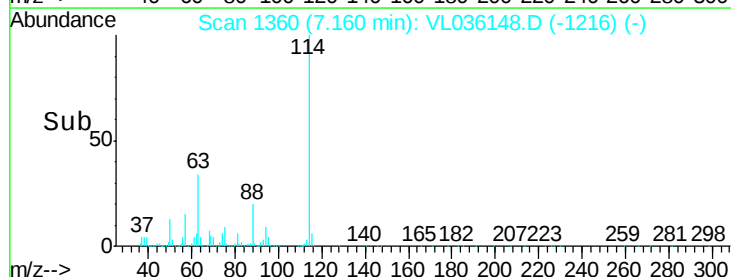
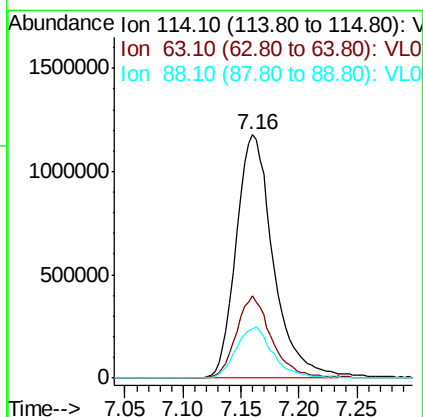
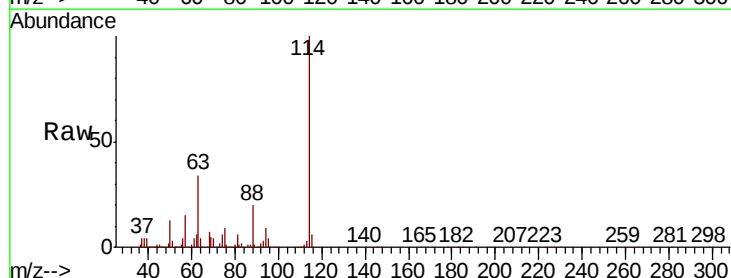
Tgt Ion: 114 Resp: 2613087

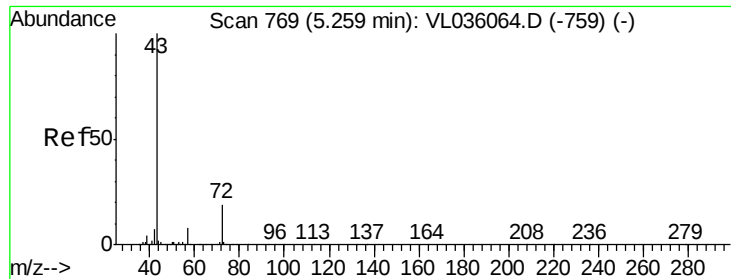
Ion Ratio Lower Upper

114 100

63 32.9 23.6 35.4

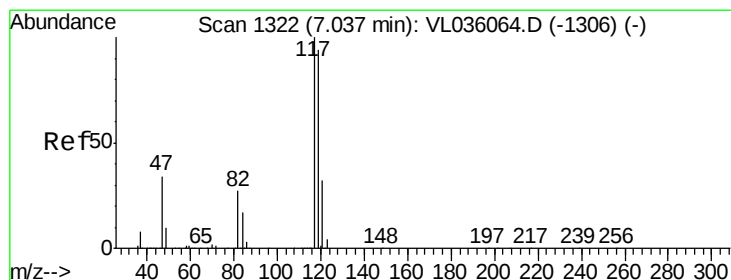
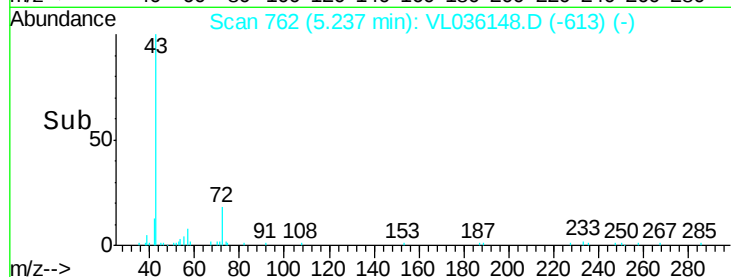
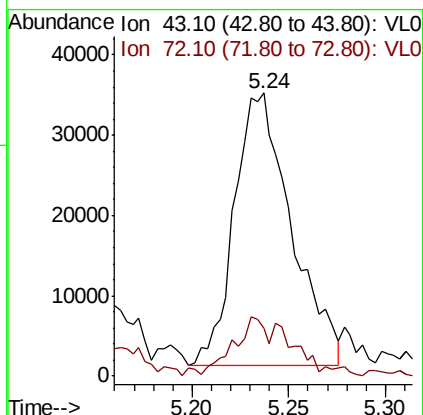
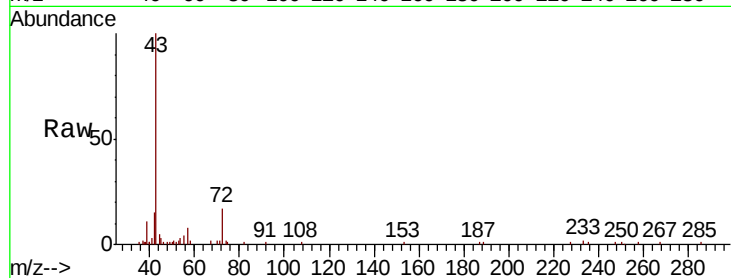
88 21.3 15.8 23.6





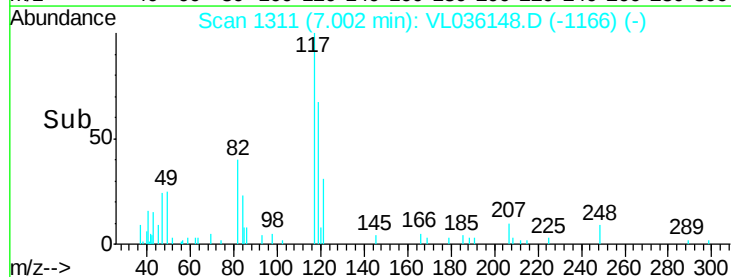
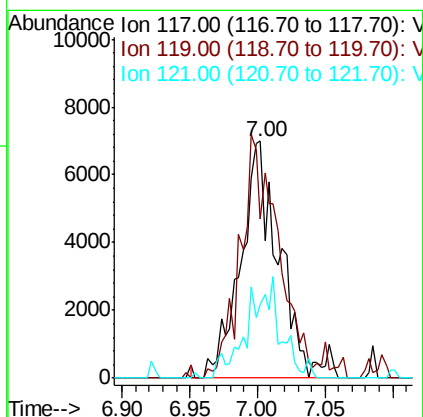
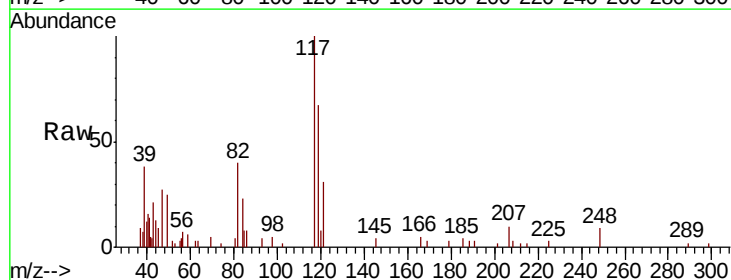
#34
2-Butanone
Concen: 0.399 ppbv
RT: 5.24 min Scan# 762
Delta R.T. -0.02 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

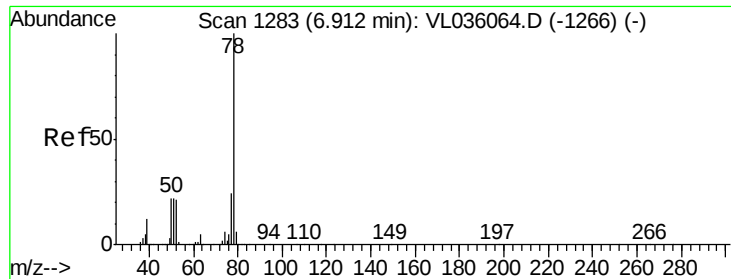
Tot Ion: 43 Resp: 69225
Ion Ratio Lower Upper
43 100
72 23.3 16.5 24.7



#35
Carbon Tetrachloride
Concen: 0.091 ppbv m
RT: 7.00 min Scan# 1311
Delta R.T. -0.04 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

Tgt Ion: 117 Resp: 13811
Ion Ratio Lower Upper
117 100
119 67.3 75.1 112.7#
121 30.8 25.6 38.4





#36

Benzene

Concen: 0.291 ppbv

RT: 6.88 min Scan# 1272

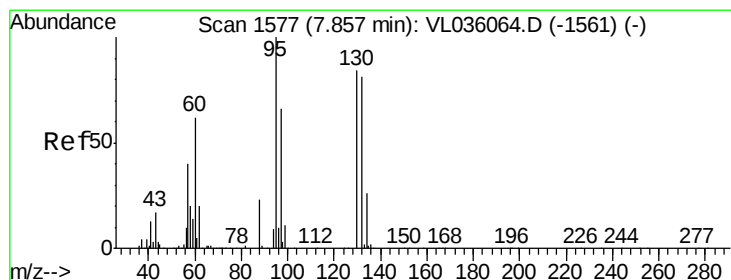
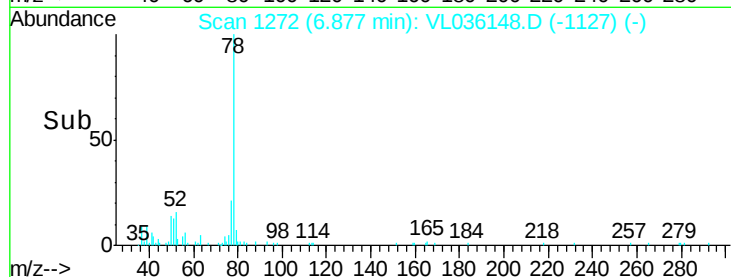
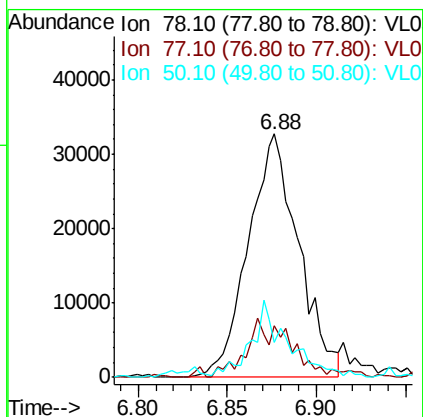
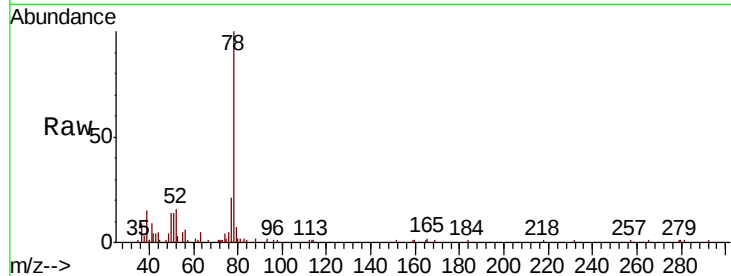
Delta R.T. -0.04 min

Lab File: VL036148.D

Acq: 11 Dec 2020 4:09

Tot Ion: 78 Resp: 64452

Ion	Ratio	Lower	Upper
78	100		
77	21.4	19.4	29.2
50	12.0	17.8	26.8#



#38

Trichloroethene

Concen: 0.020 ppbv

RT: 7.82 min Scan# 1566

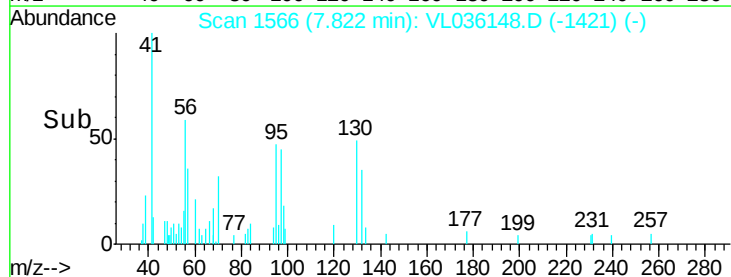
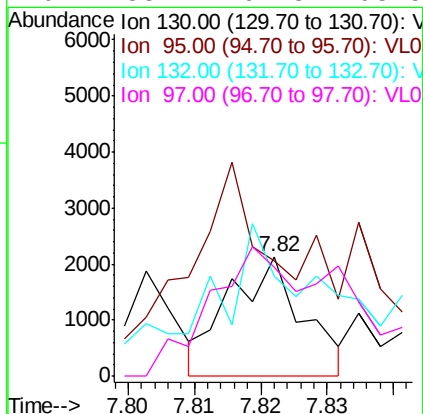
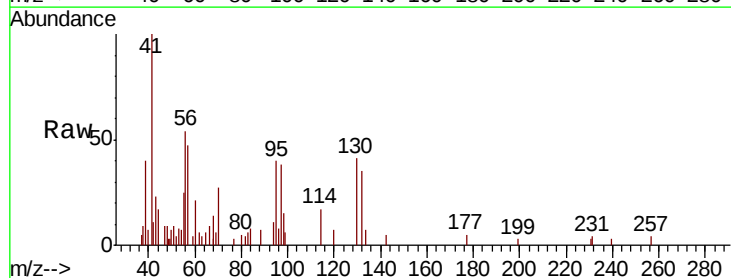
Delta R.T. -0.04 min

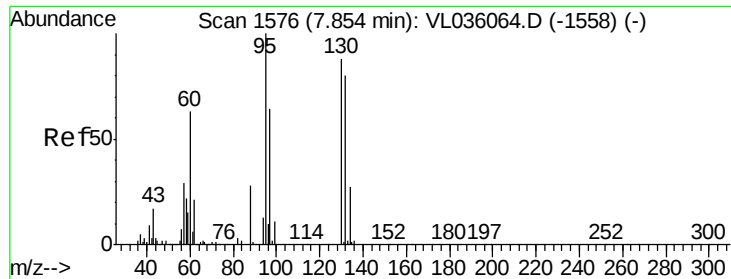
Lab File: VL036148.D

Acq: 11 Dec 2020 4:09

Tgt Ion: 130 Resp: 1642

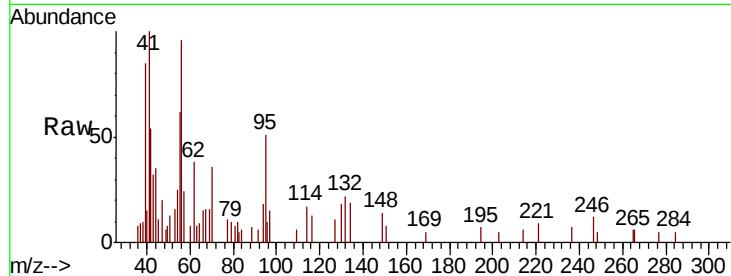
Ion	Ratio	Lower	Upper
130	100		
95	41.9	95.2	142.8#
132	64.6	76.9	115.3#
97	88.4	62.3	93.5



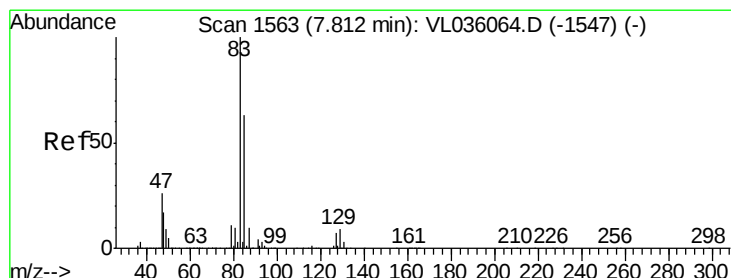
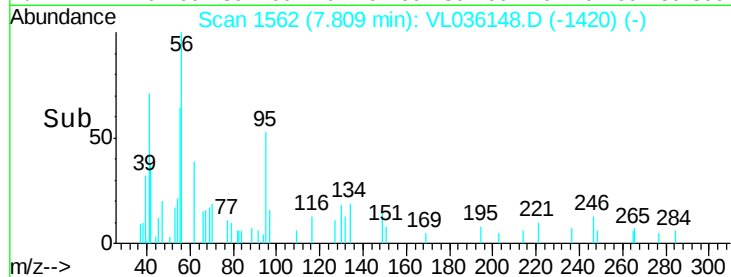
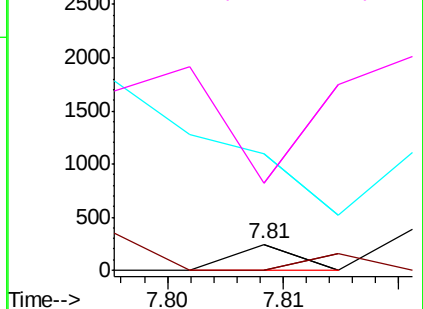


#40
1,4-Dioxane
Concen: 0.002 ppbv
RT: 7.81 min Scan# 1562
Delta R.T. -0.04 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

Tot Ion:	88	Resp:	47
Ion	Ratio	Lower	Upper
88	100		
58	0.0	122.6	184.0#
43	0.0	0.0	0.0
57	0.0	0.0	0.0

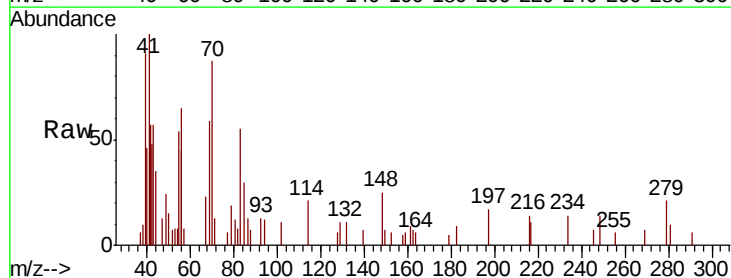


Abundance Ion 88.10 (87.80 to 88.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 57.10 (56.80 to 57.80): VL0

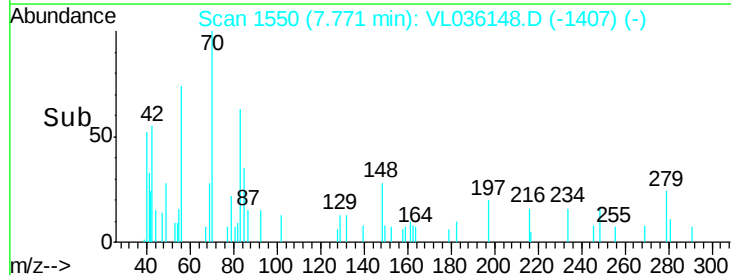
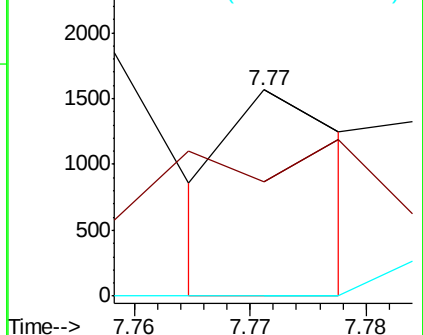


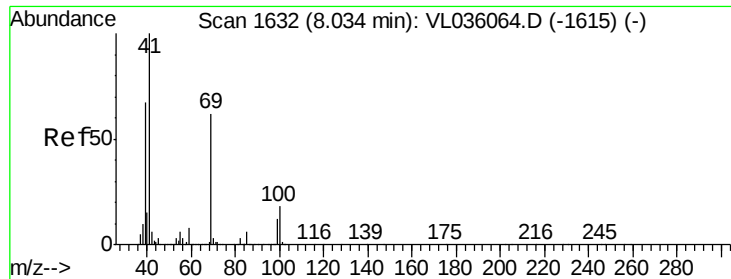
#42
Bromodichloromethane
Concen: 0.003 ppbv
RT: 7.77 min Scan# 1550
Delta R.T. -0.04 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

Tgt Ion:	83	Resp:	544
Ion	Ratio	Lower	Upper
83	100		
85	0.0	50.2	75.2#
127	0.0	5.5	8.3#



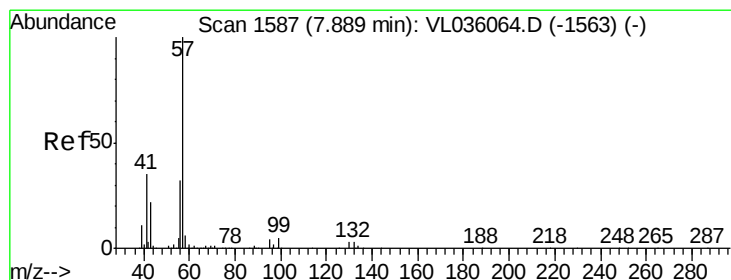
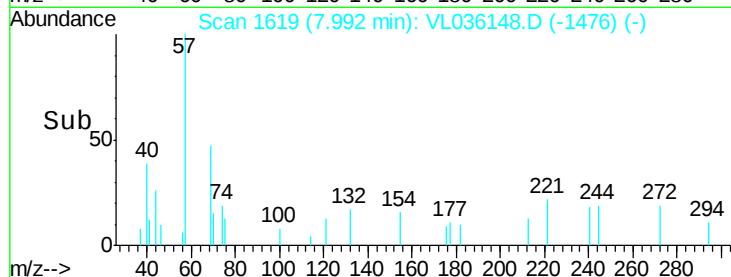
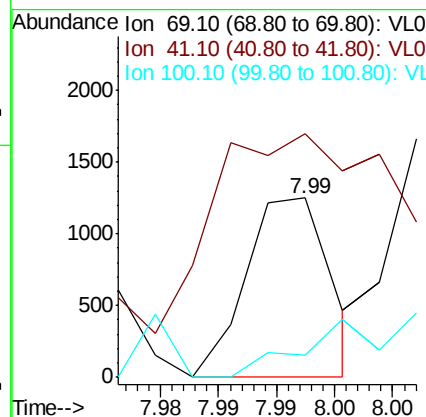
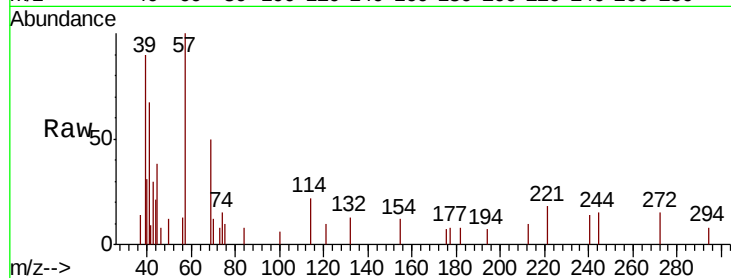
Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V





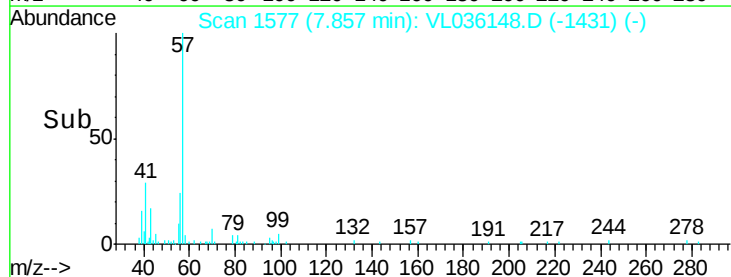
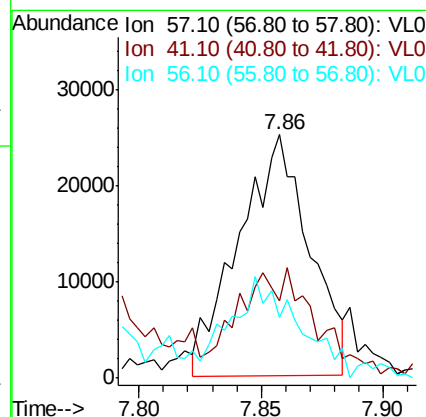
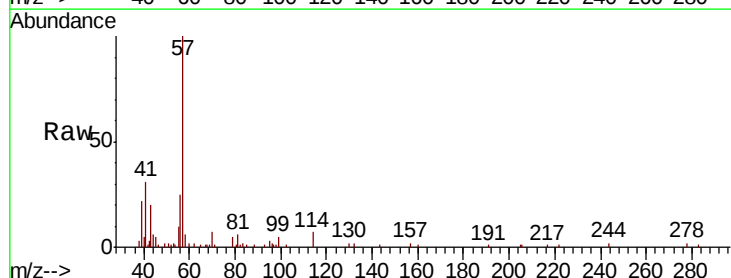
#43
Methvl Methacrvalate
Concen: 0.007 ppbv
RT: 7.99 min Scan# 1619
Delta R.T. -0.04 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

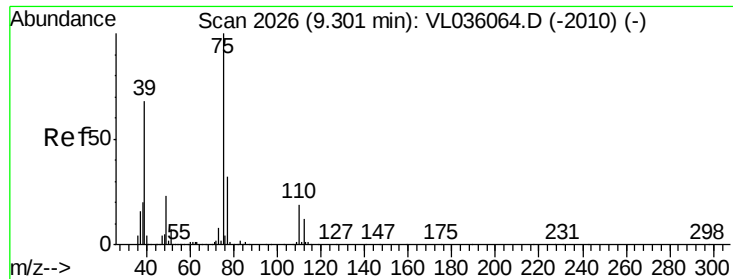
Tot Ion: 69 Resp: 637
Ion Ratio Lower Upper
69 100
41 372.4 133.0 199.6#
100 0.0 25.4 38.0#



#44
2,2,4-Trimethylpentane
Concen: 0.125 ppbv
RT: 7.86 min Scan# 1577
Delta R.T. -0.03 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

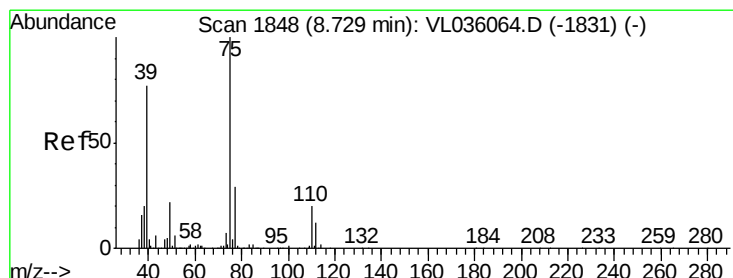
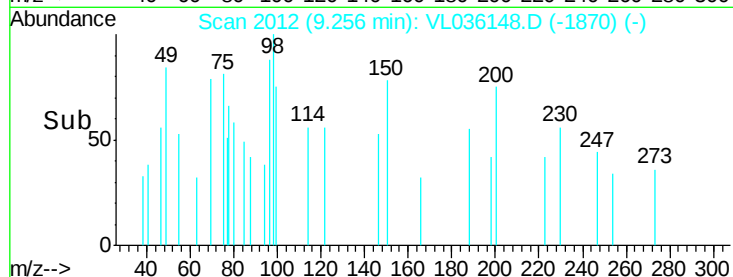
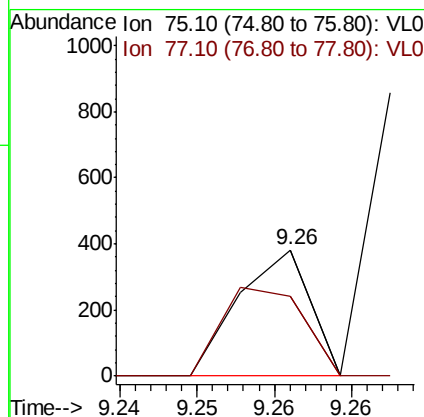
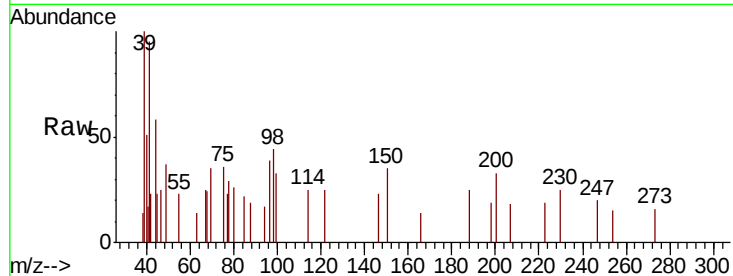
Tgt Ion: 57 Resp: 50268
Ion Ratio Lower Upper
57 100
41 52.6 28.9 43.3#
56 50.8 25.3 37.9#





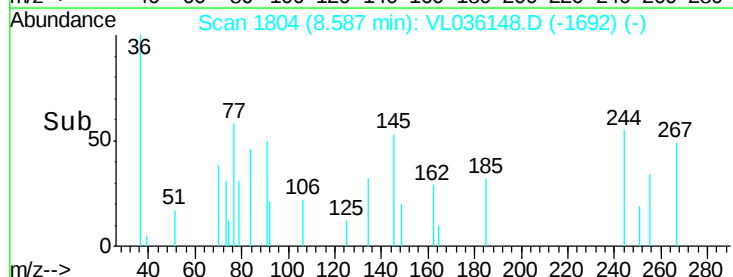
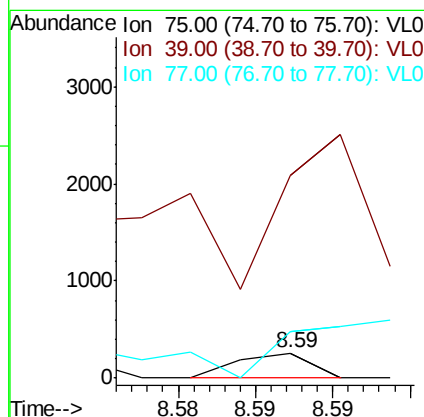
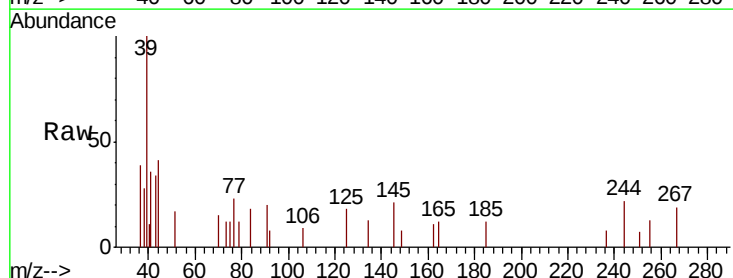
#45
t-1,3-Dichloropropene
Concen: 0.001 ppbv
RT: 9.26 min Scan# 2012
Delta R.T. -0.04 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

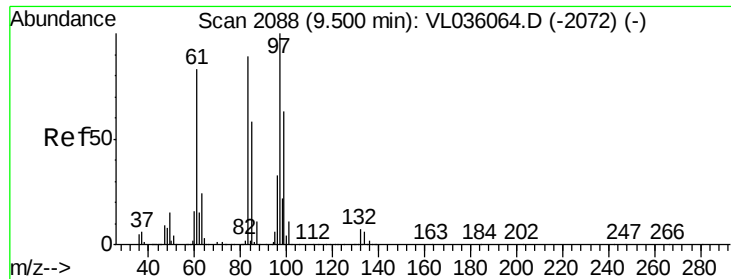
Tot Ion: 75 Resp: 123
Ion Ratio Lower Upper
75 100
77 63.4 26.0 39.0#



#46
cis-1,3-Dichloropropene
Concen: 0.001 ppbv
RT: 8.59 min Scan# 1804
Delta R.T. -0.14 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

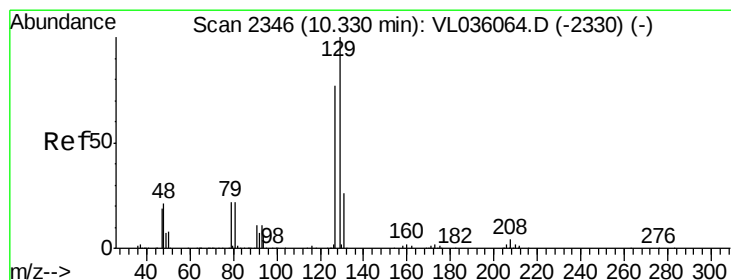
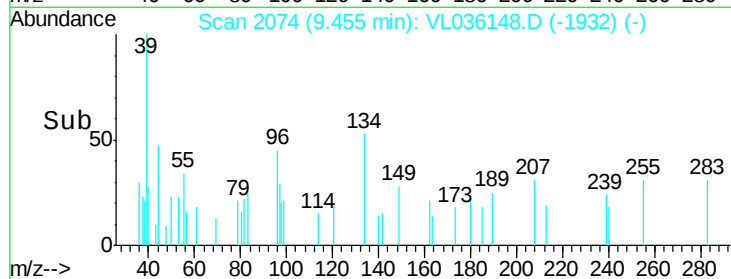
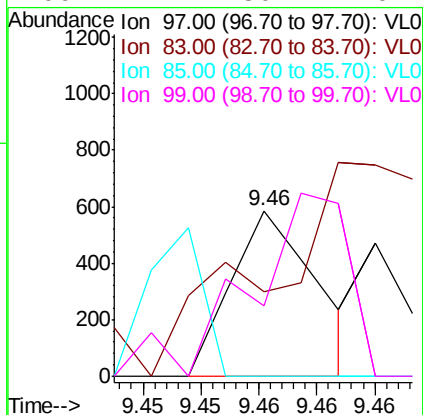
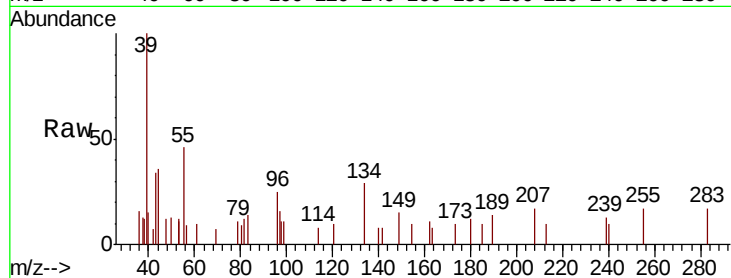
Tgt Ion: 75 Resp: 85
Ion Ratio Lower Upper
75 100
39 72.7 61.6 92.4
77 79.3 23.0 34.6#





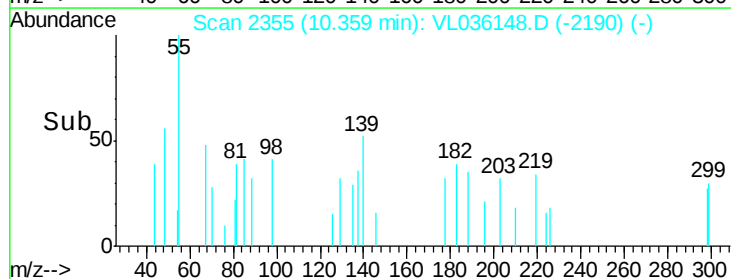
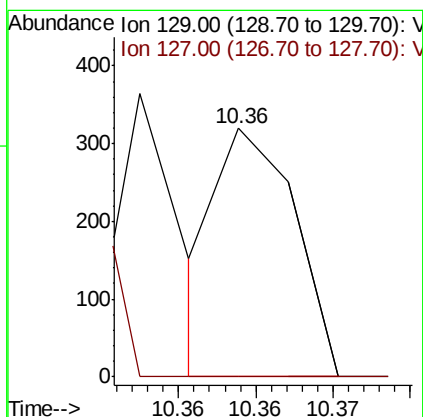
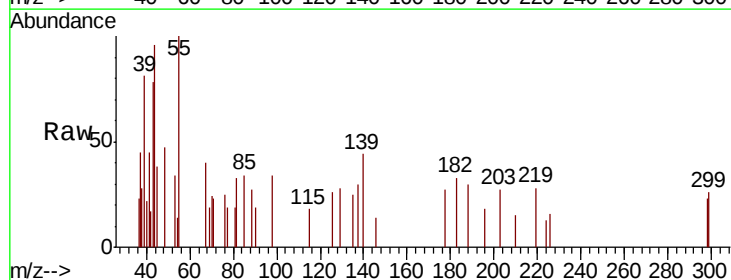
#47
 1,1,2-Trichloroethane
 Concen: 0.004 ppbv
 RT: 9.46 min Scan# 2074
 Delta R.T. -0.04 min
 Lab File: VL036148.D
 Acq: 11 Dec 2020 4:09

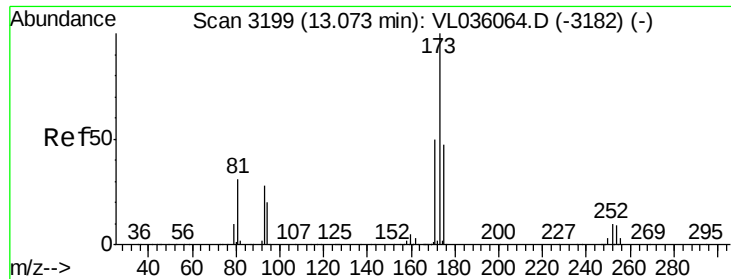
Tot Ion:	97	Resp:	295
Ion	Ratio	Lower	Upper
97	100		
83	2.7	71.4	107.2#
85	0.0	46.6	70.0#
99	42.7	50.7	76.1#



#48
 Dibromochloromethane
 Concen: 0.001 ppbv
 RT: 10.36 min Scan# 2355
 Delta R.T. 0.03 min
 Lab File: VL036148.D
 Acq: 11 Dec 2020 4:09

Tgt Ion:	129	Resp:	110
Ion	Ratio	Lower	Upper
129	100		
127	80.9	39.0	117.0





#49

Bromoform

Concen: 0.002 ppbv

RT: 13.01 min Scan# 3179

Delta R.T. -0.06 min

Lab File: VL036148.D

Acq: 11 Dec 2020 4:09

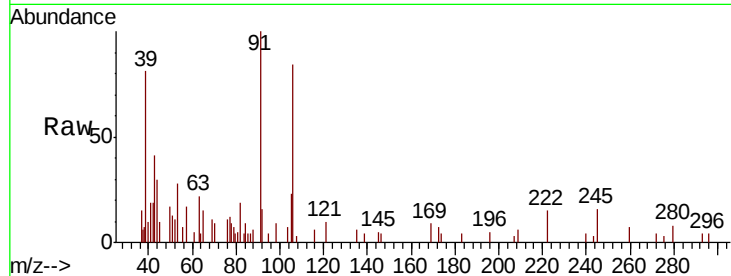
Tot Ion:173 Resp: 161

Ion Ratio Lower Upper

173 100

175 0.0 39.8 59.6#

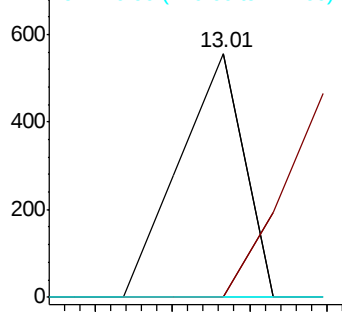
171 34.2 42.5 63.7#



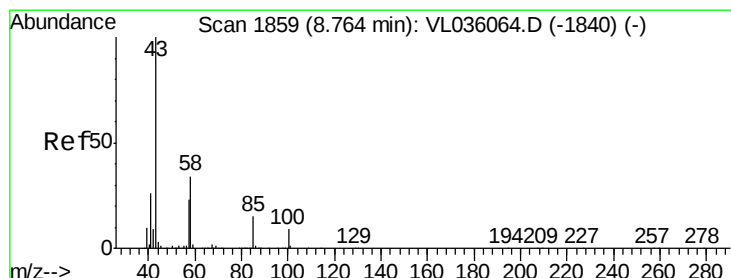
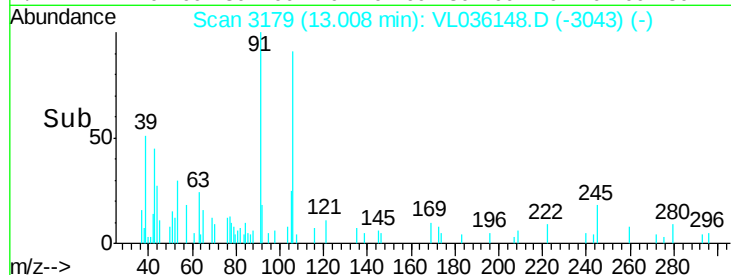
Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



Time-->



#50

4-Methyl-2-Pentanone

Concen: 0.004 ppbv

RT: 8.71 min Scan# 1842

Delta R.T. -0.05 min

Lab File: VL036148.D

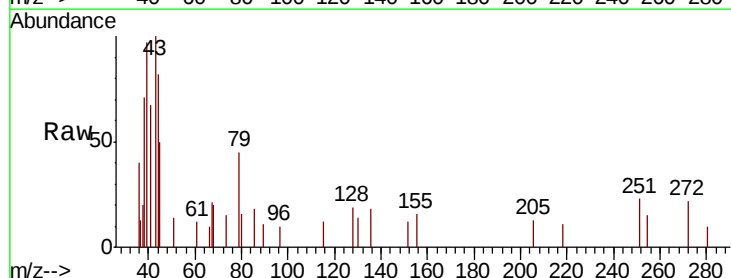
Acq: 11 Dec 2020 4:09

Tgt Ion: 43 Resp: 1007

Ion Ratio Lower Upper

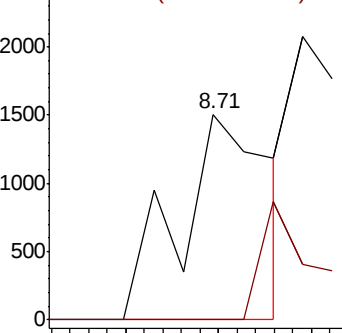
43 100

58 0.0 27.4 41.2#

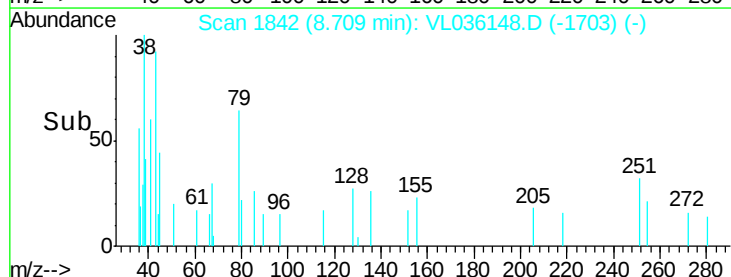


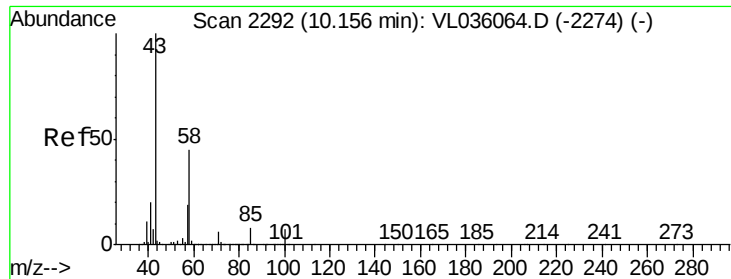
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



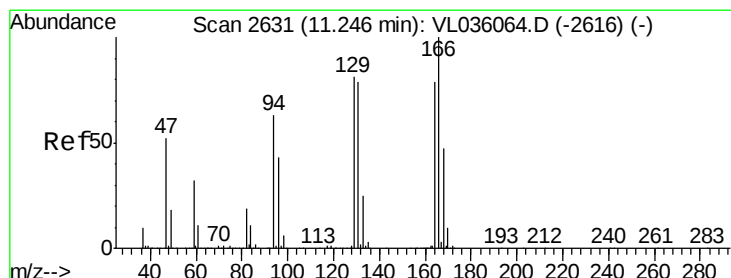
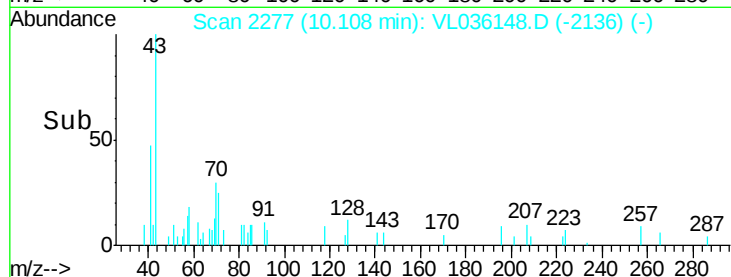
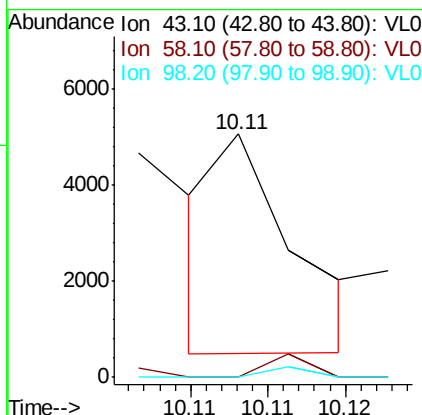
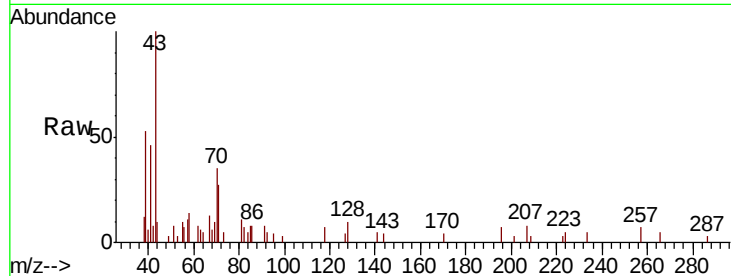
Time-->





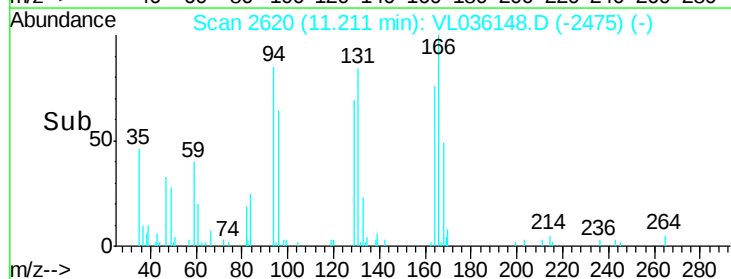
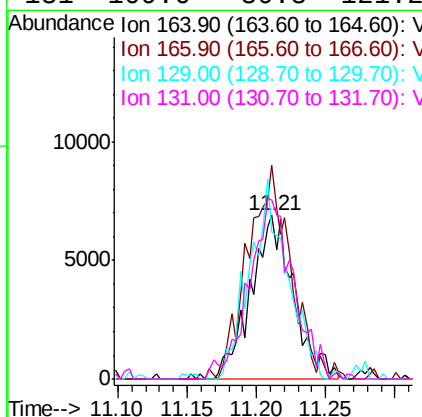
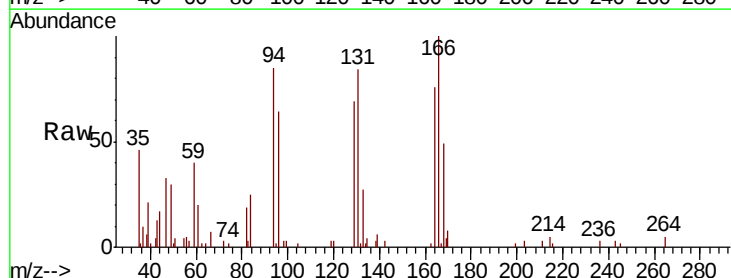
#51
2-Hexanone
Concen: 0.008 ppbv
RT: 10.11 min Scan# 2277
Delta R.T. -0.05 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

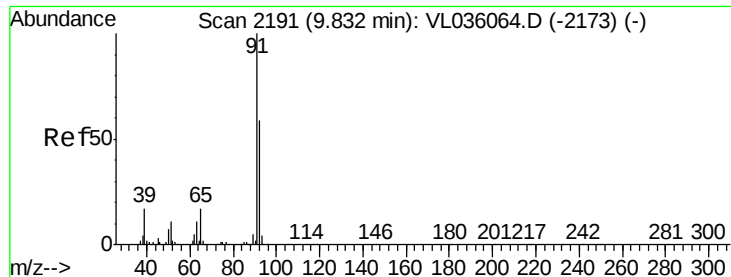
Tot Ion: 43 Resp: 1597
Ion Ratio Lower Upper
43 100
58 0.0 38.7 58.1#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.188 ppbv m
RT: 11.21 min Scan# 2620
Delta R.T. -0.04 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

Tgt Ion: 164 Resp: 15098
Ion Ratio Lower Upper
164 100
166 130.8 101.9 152.9
129 90.3 82.1 123.1
131 109.6 80.8 121.2





#53

Toluene

Concen: 1.456 ppbv

RT: 9.79 min Scan# 2179

Delta R.T. -0.04 min

Lab File: VL036148.D

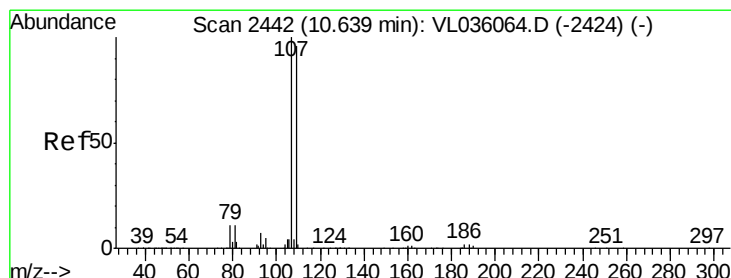
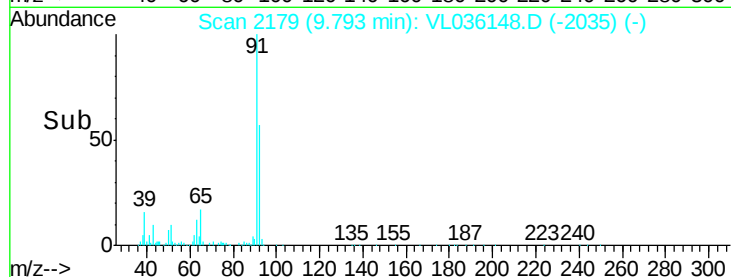
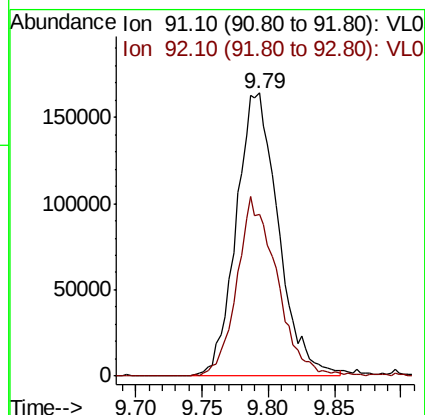
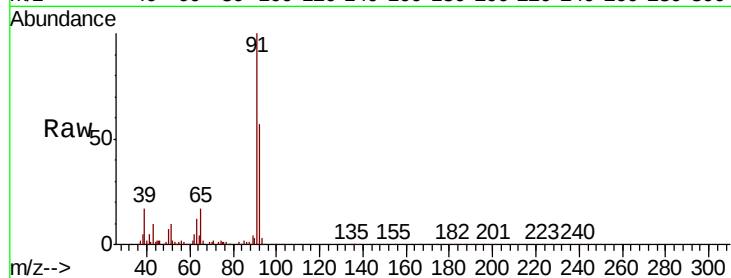
Acq: 11 Dec 2020 4:09

Tot Ion: 91 Resp: 362167

Ion Ratio Lower Upper

91 100

92 61.1 48.2 72.2



#54

1,2-Dibromoethane

Concen: 0.001 ppbv

RT: 10.58 min Scan# 2425

Delta R.T. -0.05 min

Lab File: VL036148.D

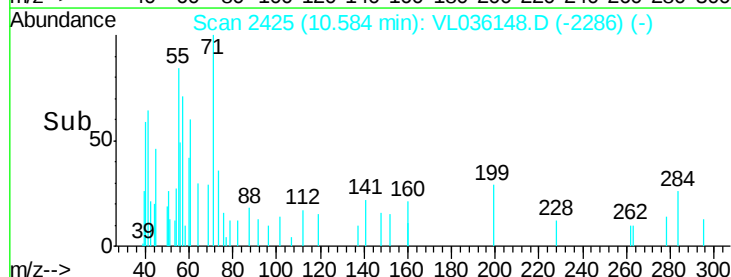
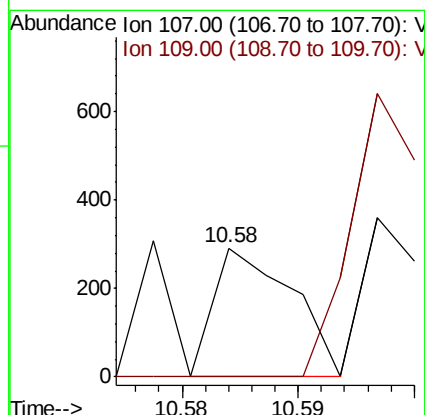
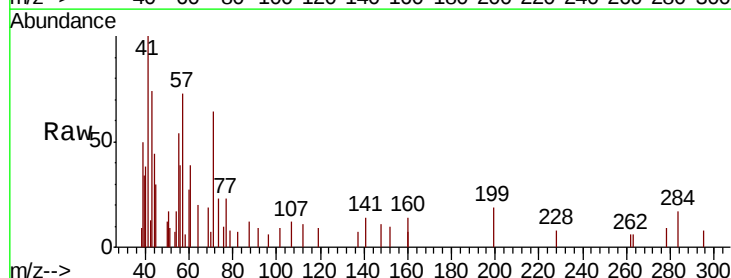
Acq: 11 Dec 2020 4:09

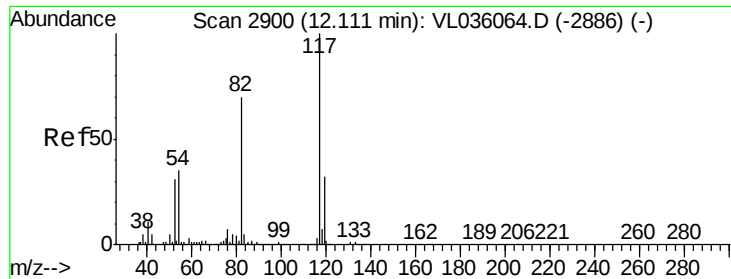
Tgt Ion: 107 Resp: 137

Ion Ratio Lower Upper

107 100

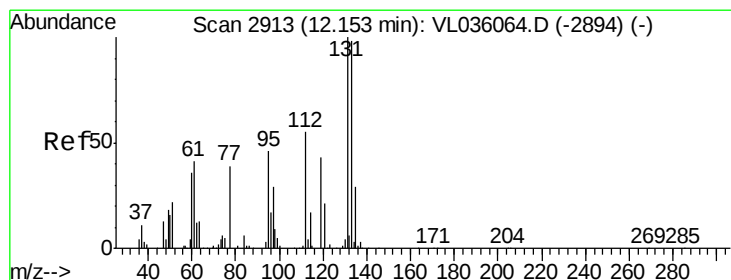
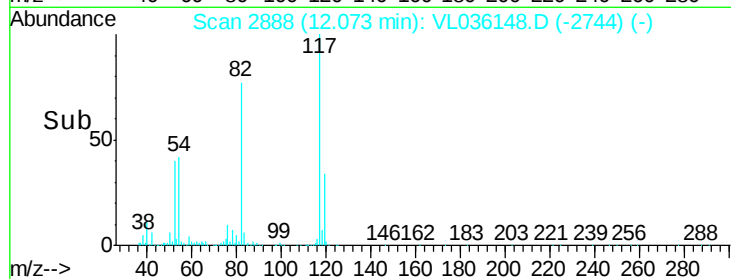
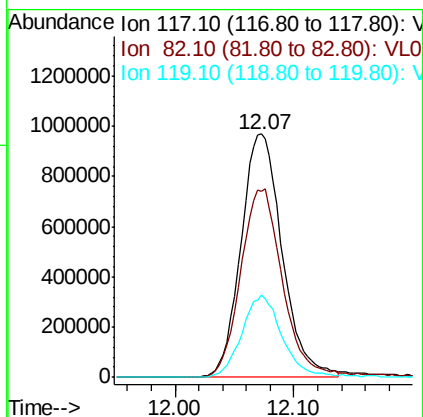
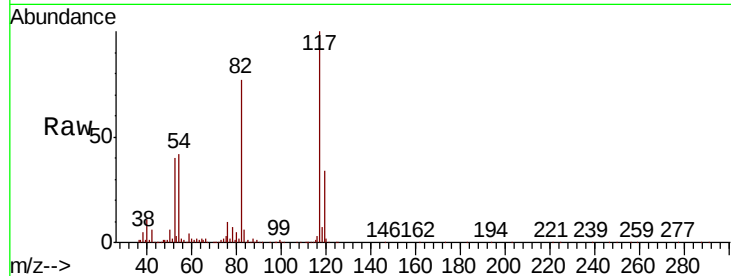
109 0.0 76.6 115.0#





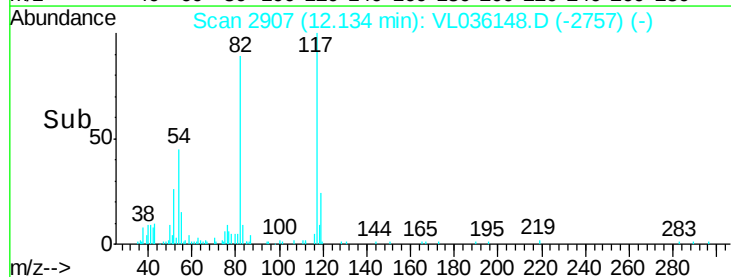
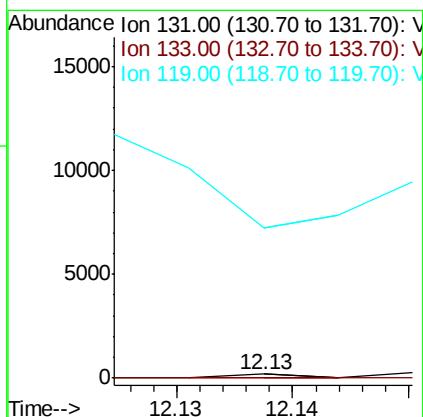
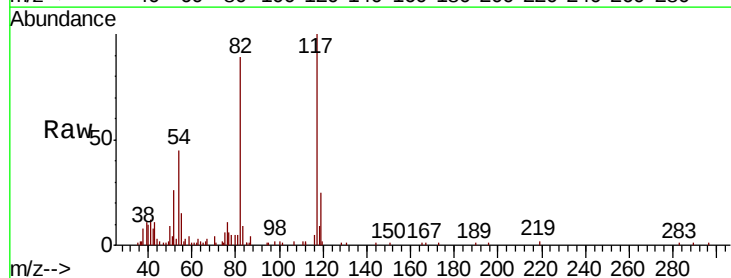
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2888
Delta R.T. -0.04 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

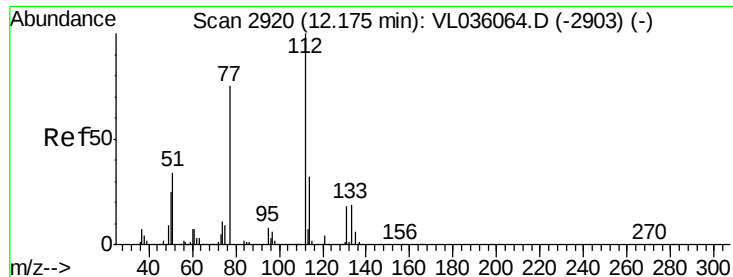
Tot Ion:117 Resp: 2322104
Ion Ratio Lower Upper
117 100
82 80.3 0.0 0.0#
119 33.7 0.0 0.0#



#56
1,1,1,2-Tetrachloroethane
Concen: 0.000 ppbv
RT: 12.13 min Scan# 2907
Delta R.T. -0.02 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

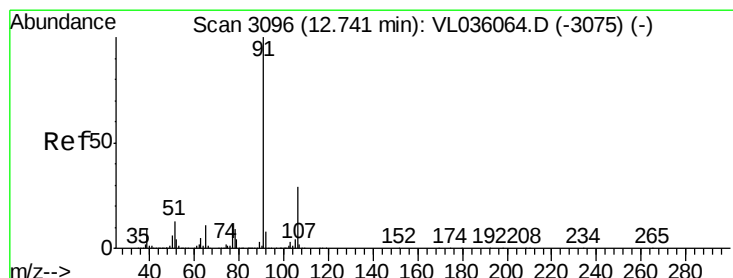
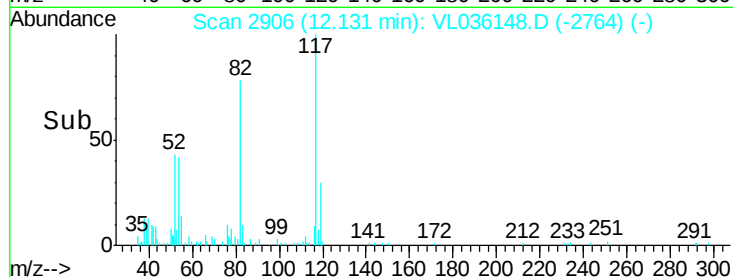
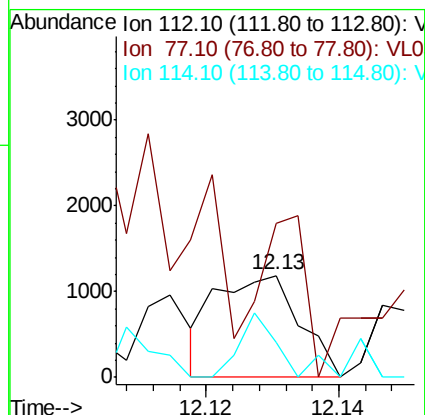
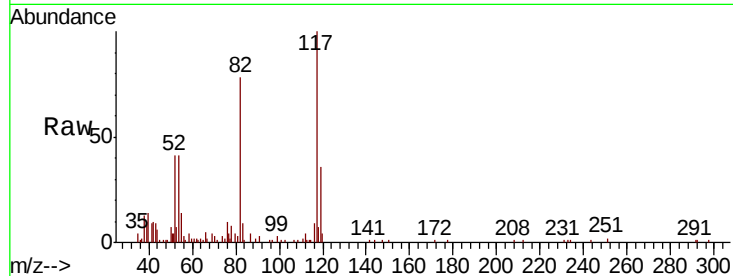
Tgt Ion:131 Resp: 38
Ion Ratio Lower Upper
131 100
133 0.0 77.7 116.5#
119 2061281.6 51.6 77.4#





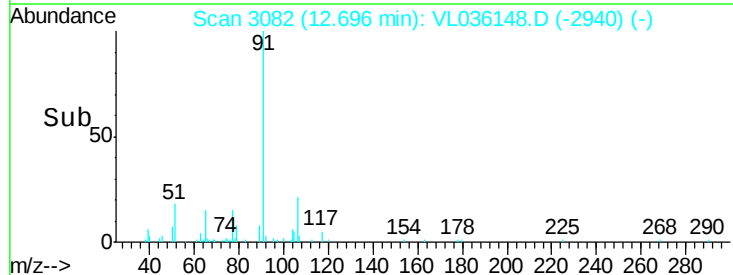
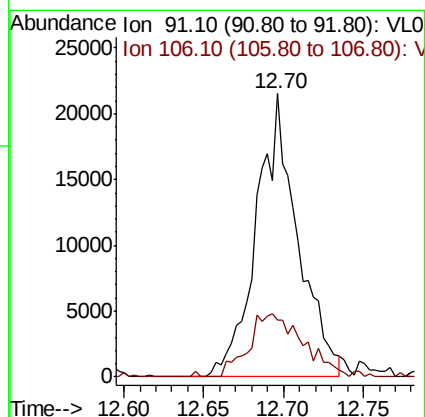
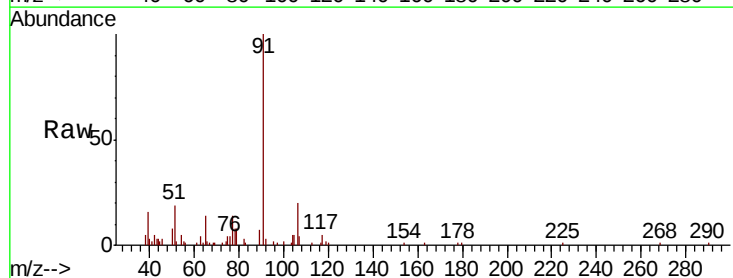
#57
Chlorobenzene
Concen: 0.006 ppbv
RT: 12.13 min Scan# 2906
Delta R.T. -0.04 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

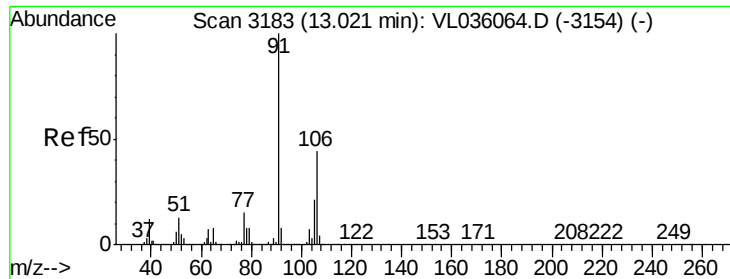
Tot Ion: 112 Resp: 1044
Ion Ratio Lower Upper
112 100
77 82.1 60.5 90.7
114 30.5 29.2 35.6



#58
Ethyl Benzene
Concen: 0.122 ppbv m
RT: 12.70 min Scan# 3082
Delta R.T. -0.04 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

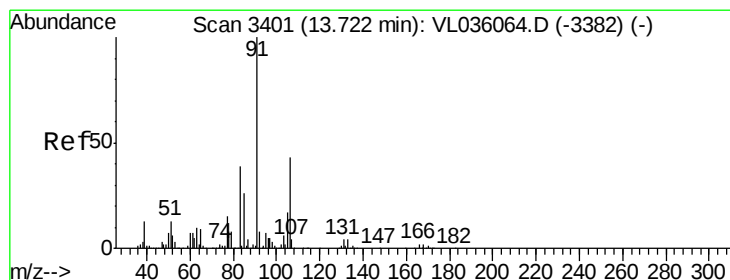
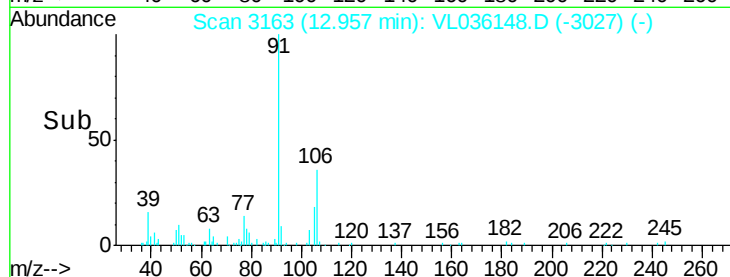
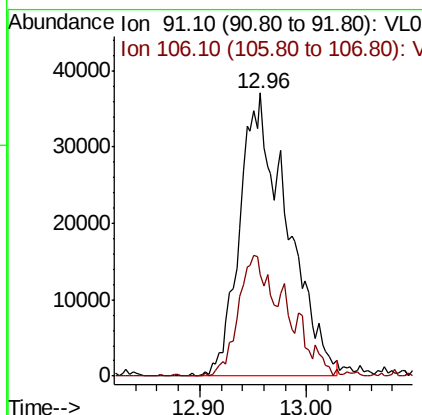
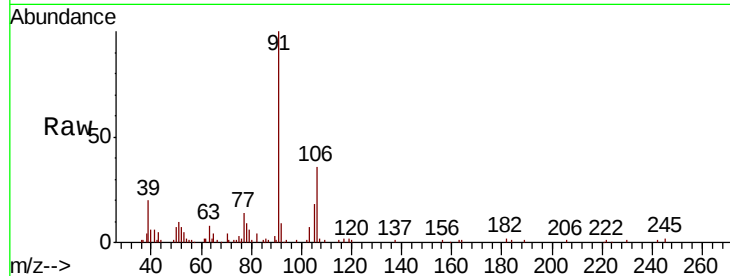
Tgt Ion: 91 Resp: 38790
Ion Ratio Lower Upper
91 100
106 20.1 23.0 34.4#





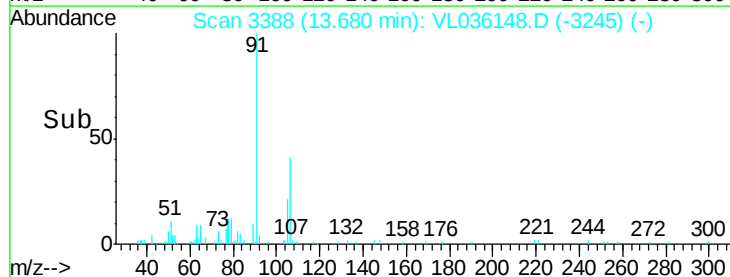
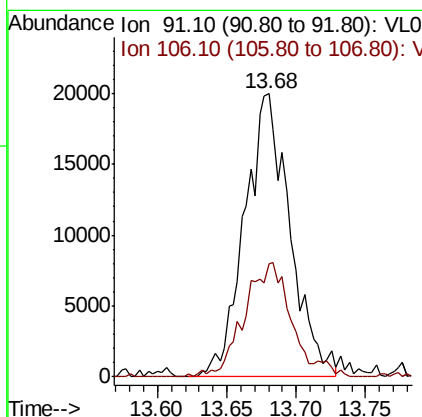
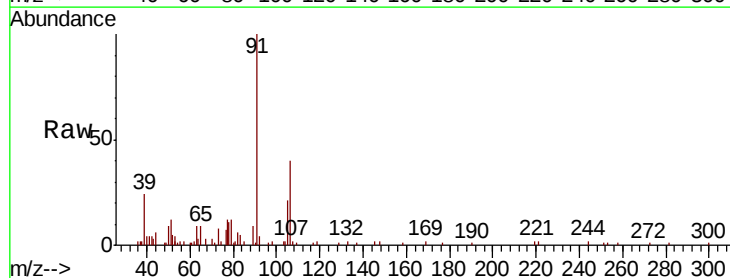
#59
m/p-Xylene
Concen: 0.426 ppbv m
RT: 12.96 min Scan# 3163
Delta R.T. -0.06 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

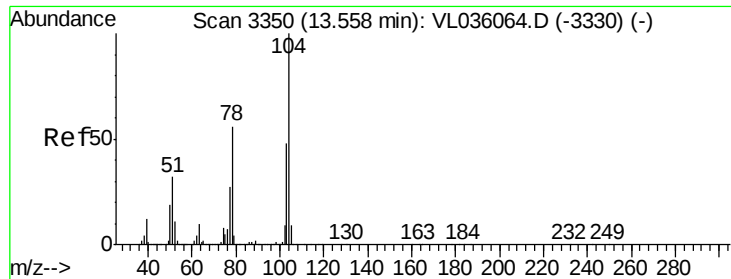
Tot Ion: 91 Resp: 114124
Ion Ratio Lower Upper
91 100
106 0.0 33.6 50.4#



#60
o-Xylene
Concen: 0.179 ppbv m
RT: 13.68 min Scan# 3388
Delta R.T. -0.04 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

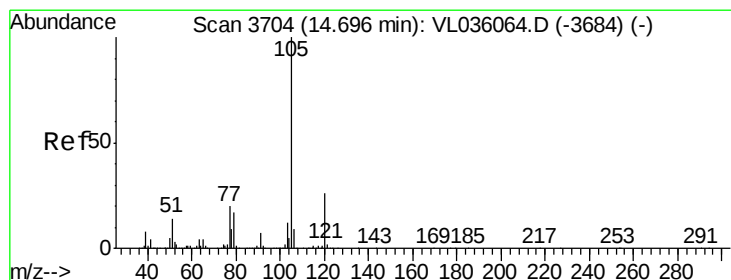
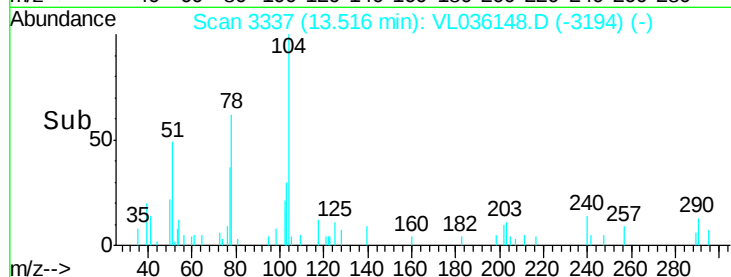
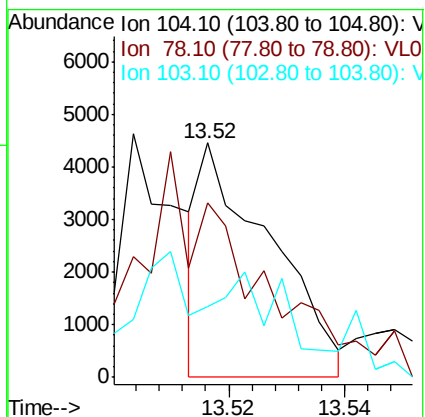
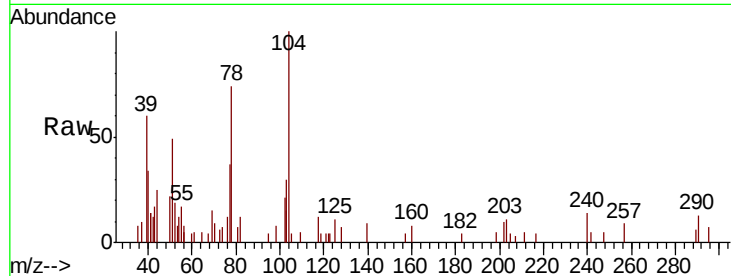
Tgt Ion: 91 Resp: 45124
Ion Ratio Lower Upper
91 100
106 42.5 21.6 64.6





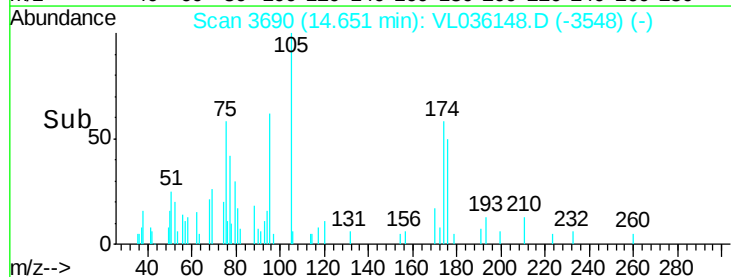
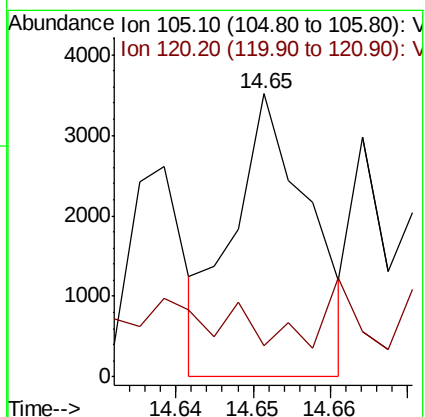
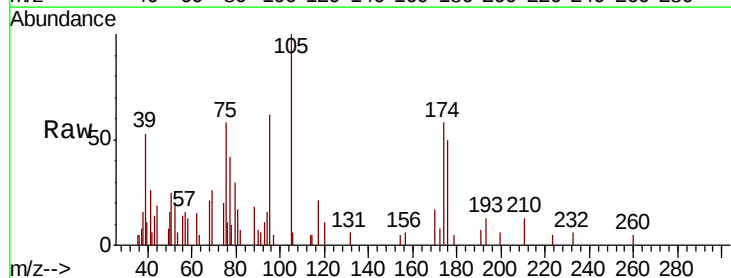
#61
Stvrene
Concen: 0.023 ppbv
RT: 13.52 min Scan# 3337
Delta R.T. -0.04 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

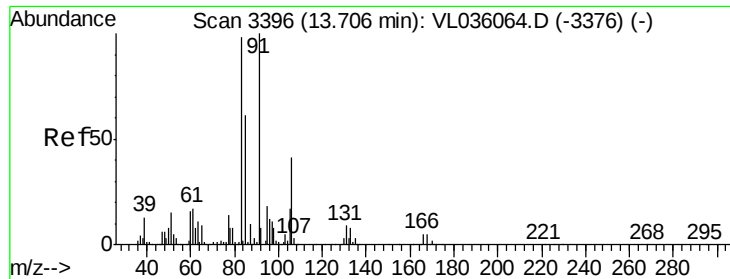
Tot Ion:104 Resp: 3750
Ion Ratio Lower Upper
104 100
78 180.9 45.8 68.8#
103 128.0 38.6 57.8#



#62
Isopropylbenzene
Concen: 0.006 ppbv
RT: 14.65 min Scan# 3690
Delta R.T. -0.04 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

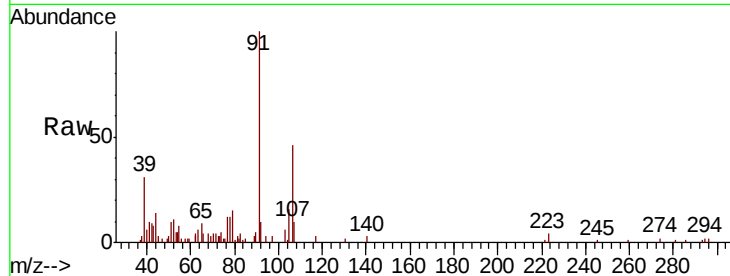
Tgt Ion:105 Resp: 2418
Ion Ratio Lower Upper
105 100
120 0.0 20.1 30.1#



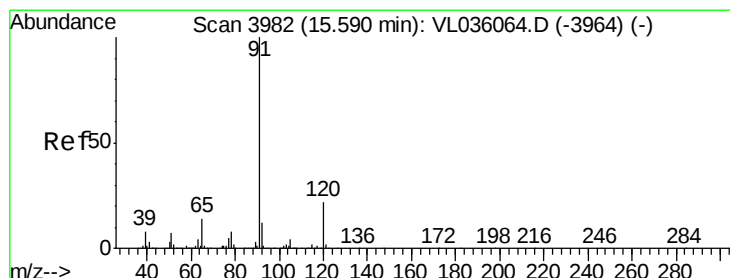
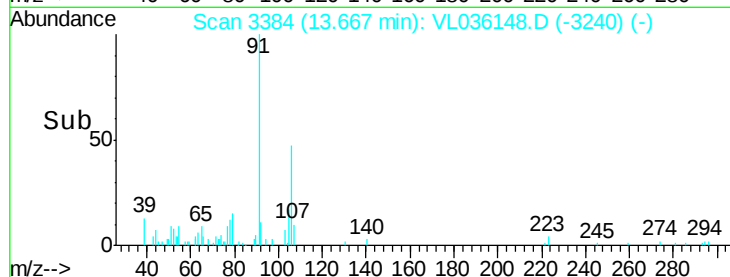
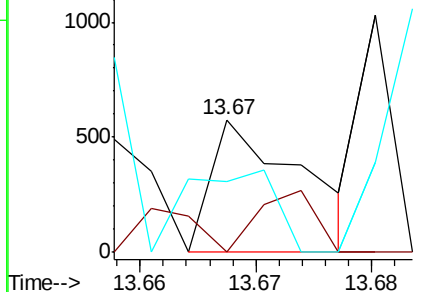


#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.002 ppbv
 RT: 13.67 min Scan# 3384
 Delta R.T. -0.04 min
 Lab File: VL036148.D
 Acq: 11 Dec 2020 4:09

Tot Ion	83	Resp	309
Ion Ratio	100	Lower	Upper
131	0.0	4.6	13.8#
85	0.0	32.5	97.5#

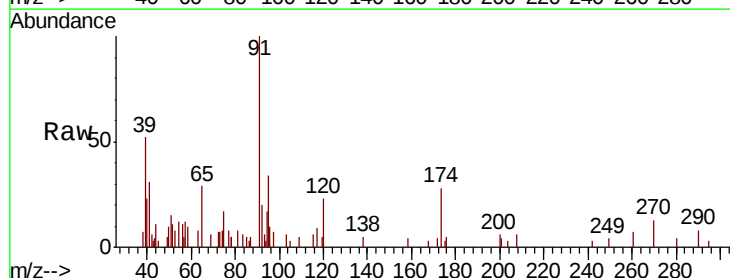


Abundance Ion 83.00 (82.70 to 83.70): VL0
 Ion 131.00 (130.70 to 131.70): V
 Ion 85.00 (84.70 to 85.70): VL0

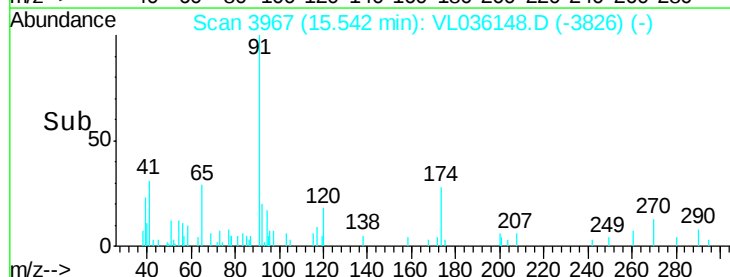
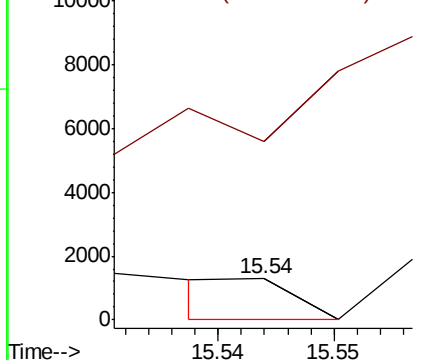


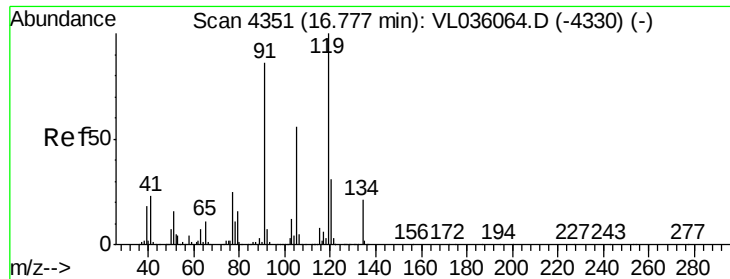
#64
 n-propylbenzene
 Concen: 0.003 ppbv
 RT: 15.54 min Scan# 3967
 Delta R.T. -0.05 min
 Lab File: VL036148.D
 Acq: 11 Dec 2020 4:09

Tgt Ion	120	Resp	247
Ion Ratio	100	Lower	Upper
91	0.0	388.9	583.3#



Abundance Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 0.000 ppbv

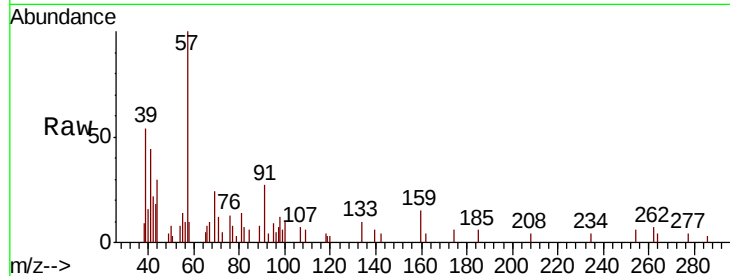
RT: 16.71 min Scan# 4329

Delta R.T. -0.07 min

Lab File: VL036148.D

Acq: 11 Dec 2020 4:09

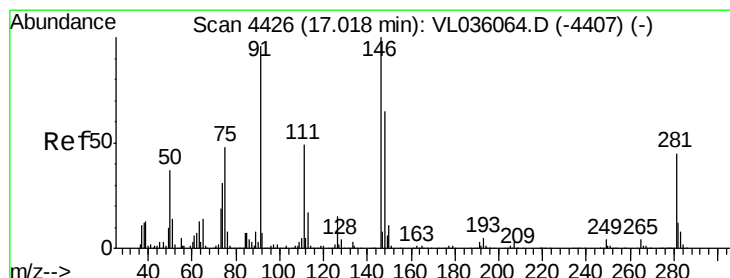
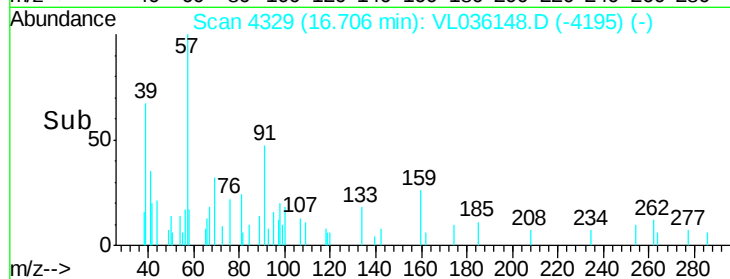
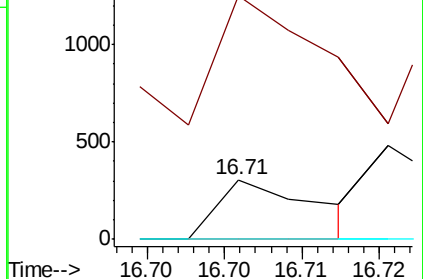
Tot Ion:	119	Resp:	134
Ion	Ratio	Lower	Upper
119	100		
91	0.0	70.2	105.2#
134	0.0	15.8	23.6#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 0.002 ppbv

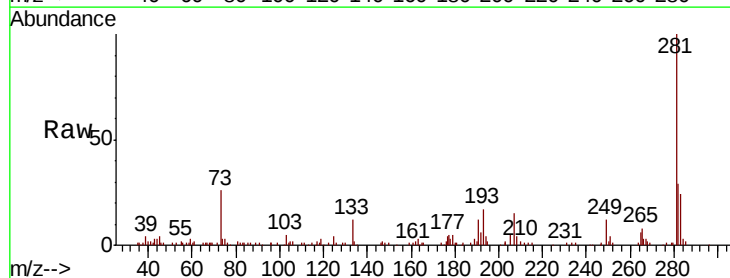
RT: 16.97 min Scan# 4410

Delta R.T. -0.05 min

Lab File: VL036148.D

Acq: 11 Dec 2020 4:09

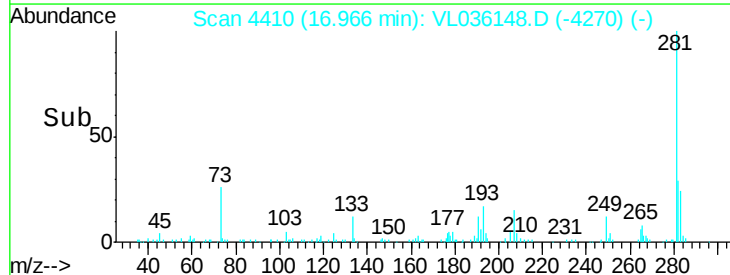
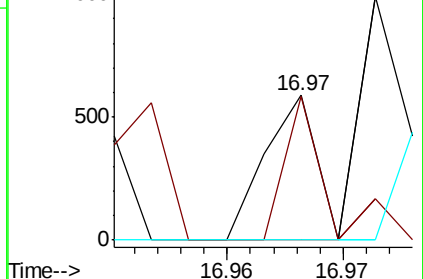
Tgt Ion:	91	Resp:	181
Ion	Ratio	Lower	Upper
91	100		
126	0.0	13.5	20.3#
128	0.0	4.4	6.6#

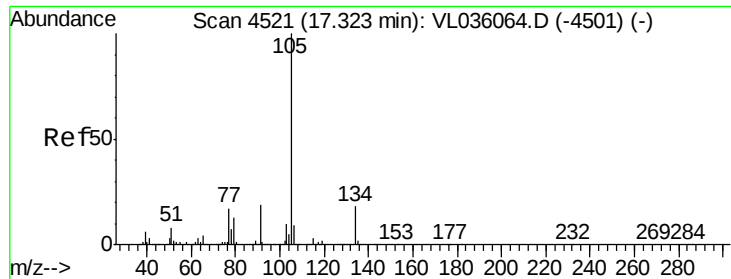


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 0.002 ppbv

RT: 17.27 min Scan# 4503

Delta R.T. -0.06 min

Lab File: VL036148.D

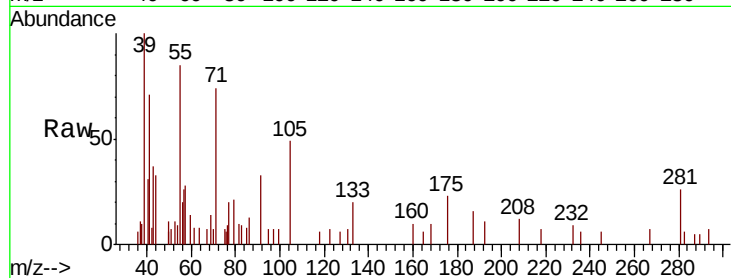
Acq: 11 Dec 2020 4:09

Tot Ion: 105 Resp: 784

Ion Ratio Lower Upper

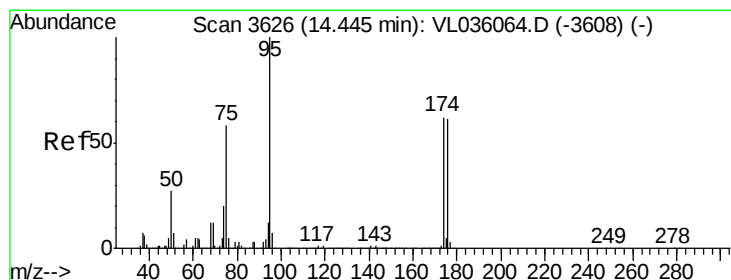
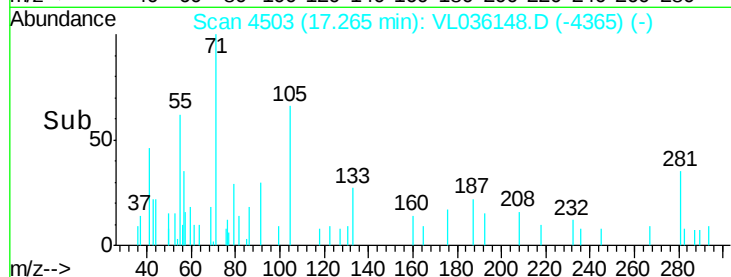
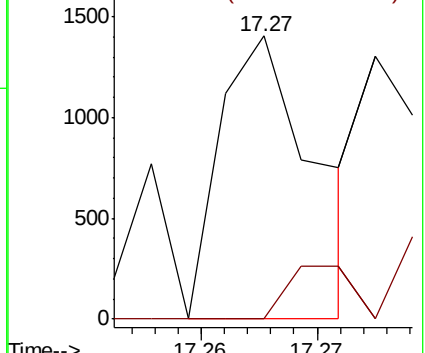
105 100

134 0.0 14.2 21.4#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.822 ppbv

RT: 14.40 min Scan# 3612

Delta R.T. -0.04 min

Lab File: VL036148.D

Acq: 11 Dec 2020 4:09

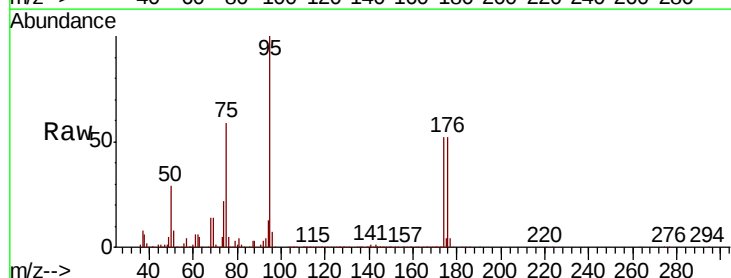
Tgt Ion: 95 Resp: 1995423

Ion Ratio Lower Upper

95 100

174 55.8 50.7 76.1

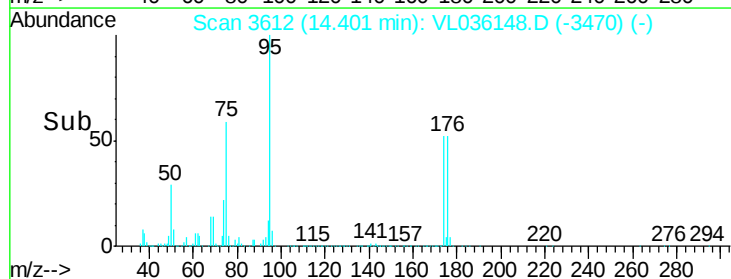
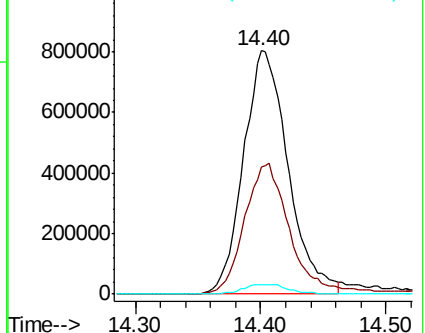
175 4.2 4.0 6.0

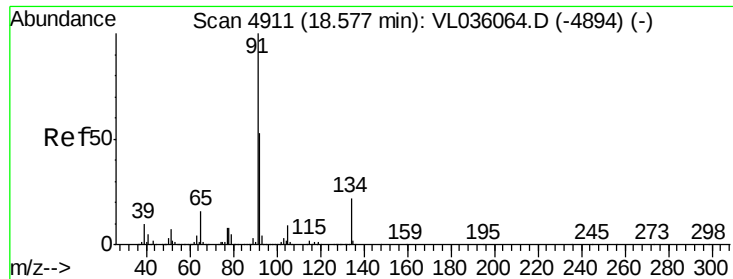


Abundance Ion 95.10 (94.80 to 95.80): V

Ion 174.00 (173.70 to 174.70): V

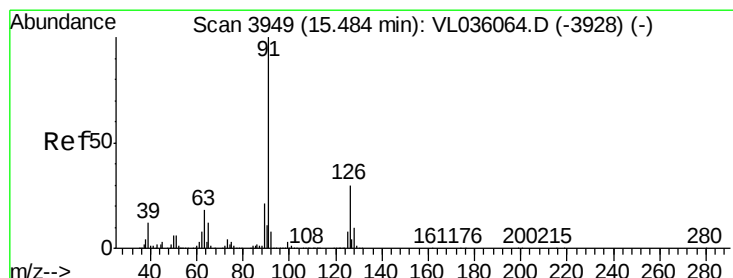
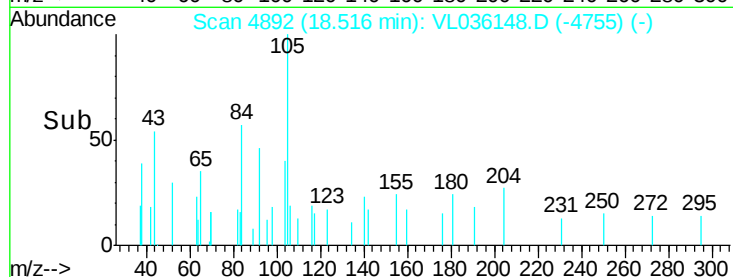
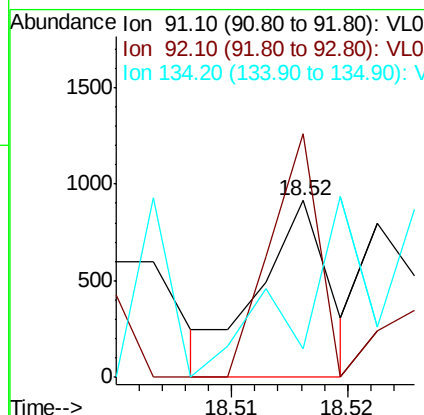
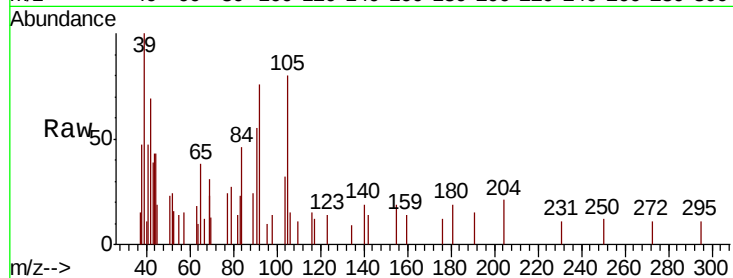
Ion 175.00 (174.70 to 175.70): V





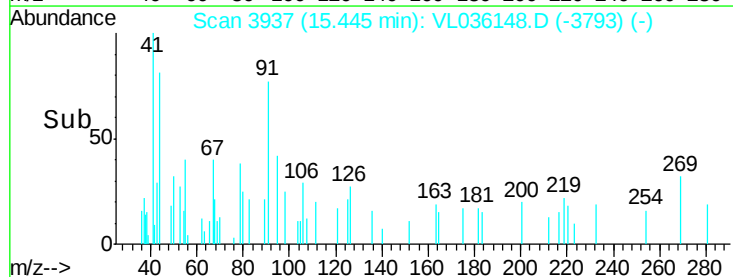
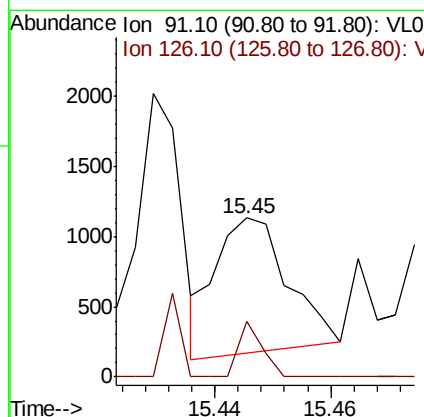
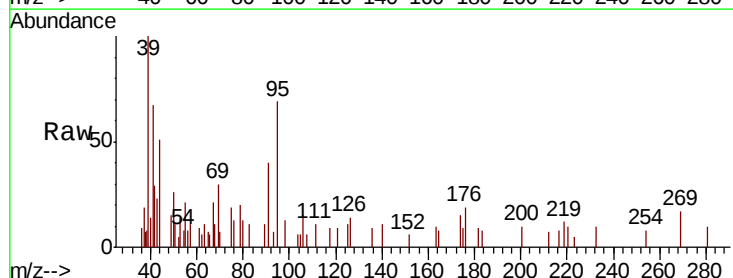
#70
n-Butylbenzene
Concen: 0.001 ppbv
RT: 18.52 min Scan# 4892
Delta R.T. -0.06 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

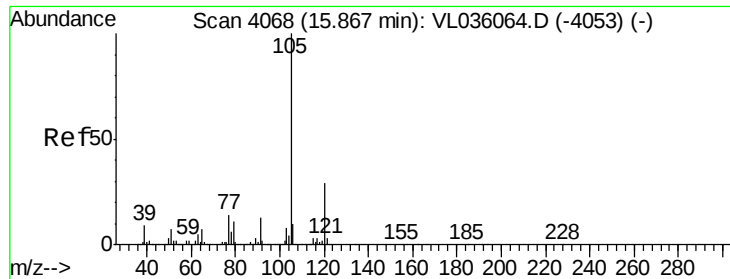
Tot Ion: 91 Resp: 378
Ion Ratio Lower Upper
91 100
92 621.2 43.3 64.9#
134 192.3 17.1 25.7#



#71
2-Chlorotoluene
Concen: 0.003 ppbv
RT: 15.45 min Scan# 3937
Delta R.T. -0.04 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

Tgt Ion: 91 Resp: 835
Ion Ratio Lower Upper
91 100
126 13.2 11.6 46.4





#72

4-Ethyltoluene

Concen: 0.026 ppbv

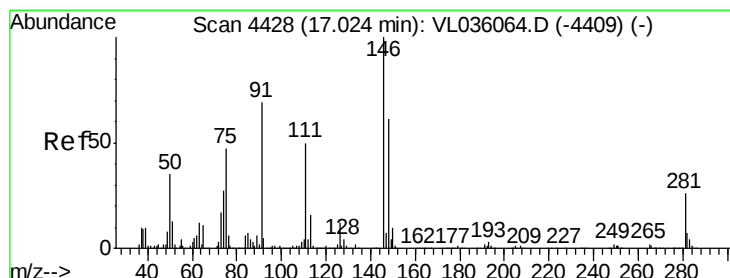
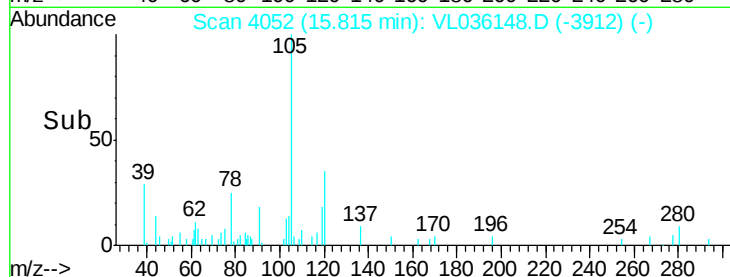
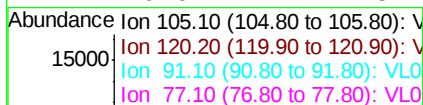
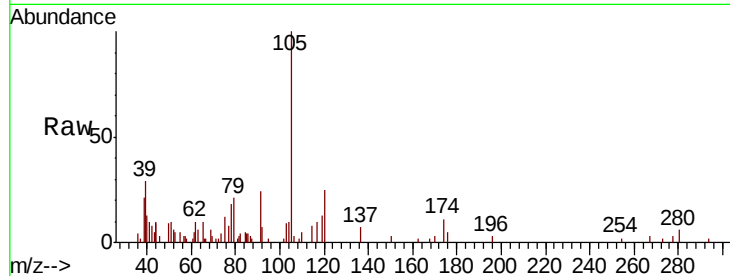
RT: 15.82 min Scan# 4052

Delta R.T. -0.05 min

Lab File: VL036148.D

Acq: 11 Dec 2020 4:09

Tot Ion:	105	Resp:	7158
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.6	35.4#
91	30.6	11.4	17.0#
77	0.0	12.1	18.1#



#75

1,3-Dichlorobenzene

Concen: 0.002 ppbv

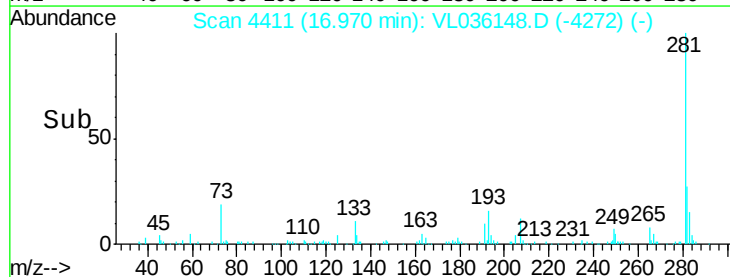
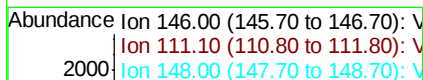
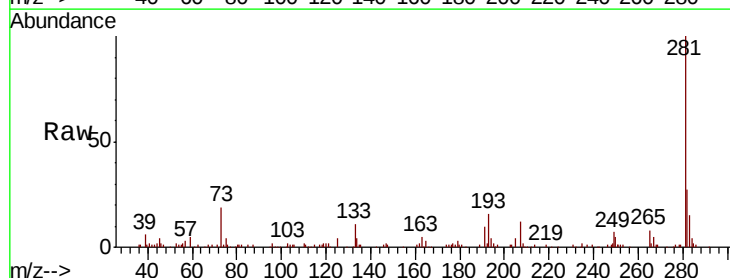
RT: 16.97 min Scan# 4411

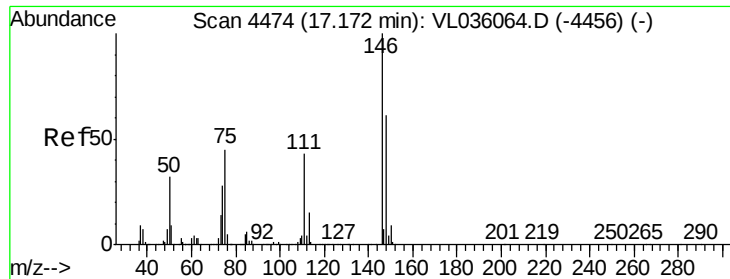
Delta R.T. -0.05 min

Lab File: VL036148.D

Acq: 11 Dec 2020 4:09

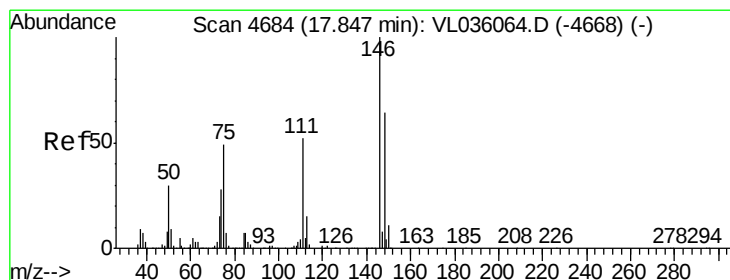
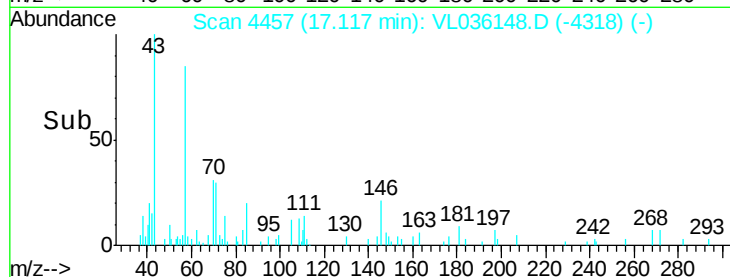
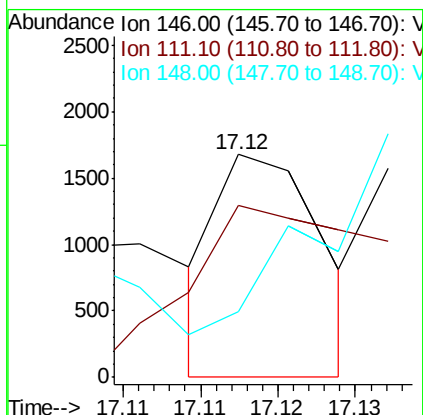
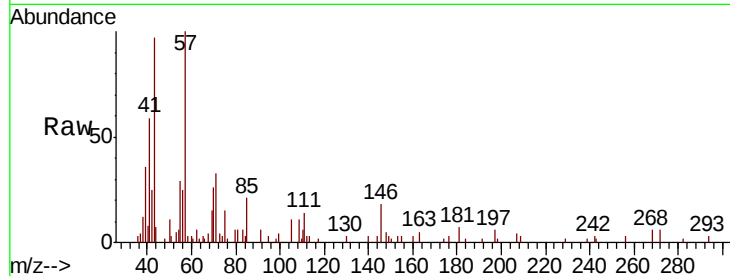
Tgt Ion:	146	Resp:	258
Ion	Ratio	Lower	Upper
146	100		
111	982.6	25.1	75.3#
148	0.0	32.9	98.6#





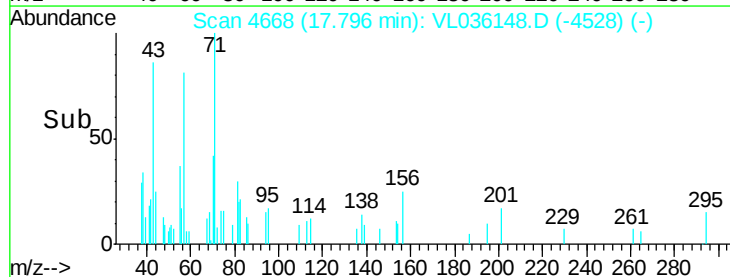
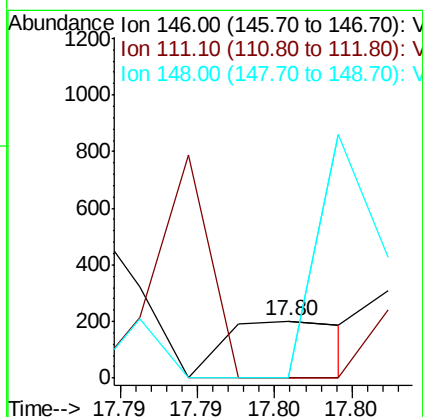
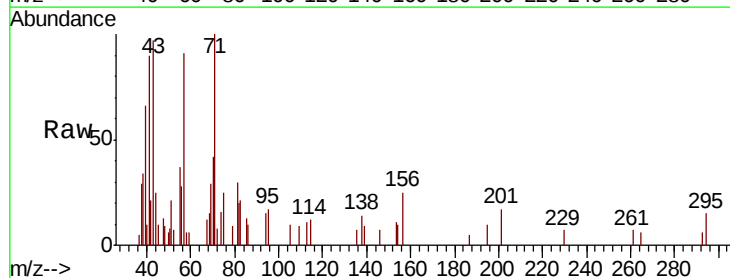
#76
 1,4-Dichlorobenzene
 Concen: 0.006 ppbv
 RT: 17.12 min Scan# 4457
 Delta R.T. -0.05 min
 Lab File: VL036148.D
 Acq: 11 Dec 2020 4:09

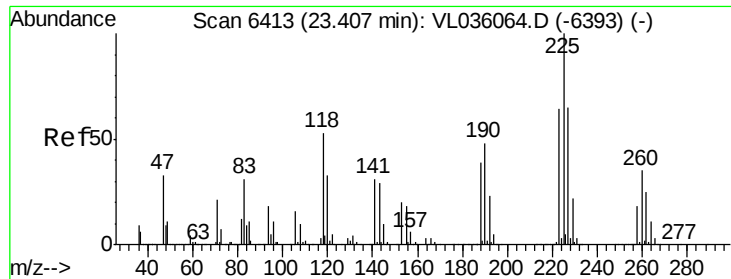
Tot Ion:146 Resp: 779
 Ion Ratio Lower Upper
 146 100
 111 0.0 24.3 72.8#
 148 0.0 32.8 98.3#



#77
 1,2-Dichlorobenzene
 Concen: 0.001 ppbv
 RT: 17.80 min Scan# 4668
 Delta R.T. -0.05 min
 Lab File: VL036148.D
 Acq: 11 Dec 2020 4:09

Tgt Ion:146 Resp: 112
 Ion Ratio Lower Upper
 146 100
 111 0.0 26.1 78.2#
 148 608.9 33.1 99.5#

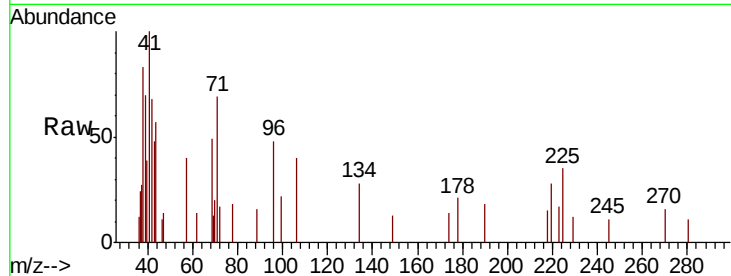




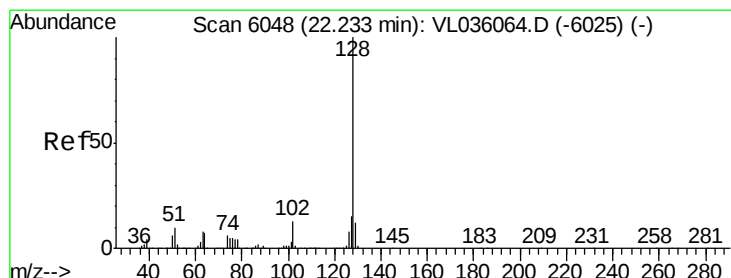
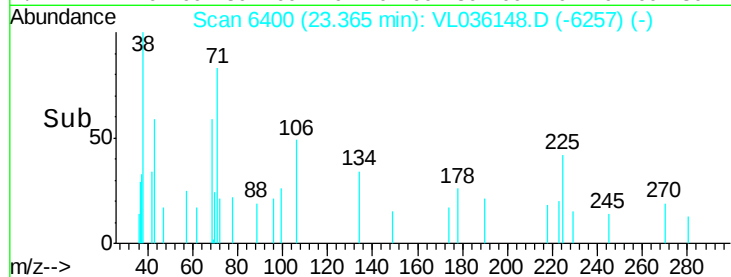
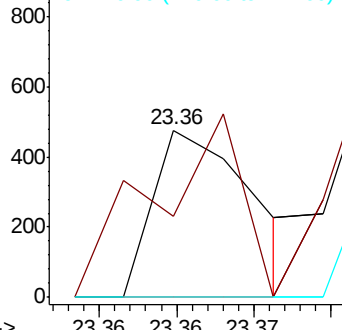
#78

Hexachloro-1,3-Butadiene
Concen: 0.002 ppbv
RT: 23.36 min Scan# 6400
Delta R.T. -0.04 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

Tot Ion	Ratio	Lower	Upper
225	100		
223	14.2	51.1	76.7#
227	69.3	51.7	77.5



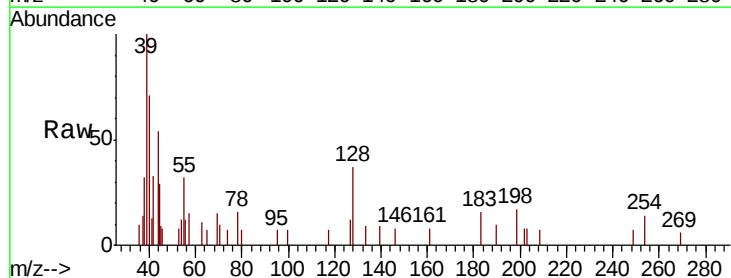
Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V



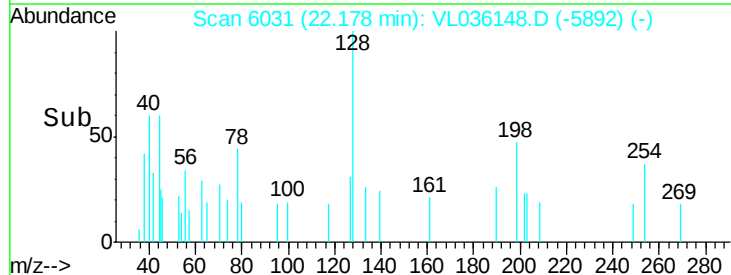
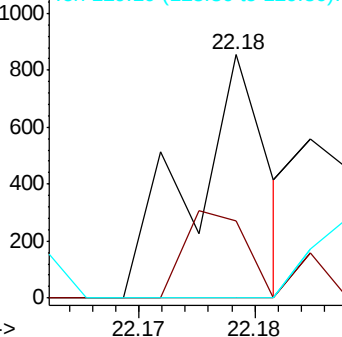
#79

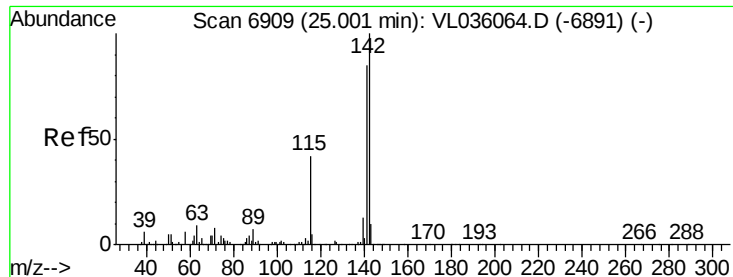
Naphthalene
Concen: 0.003 ppbv
RT: 22.18 min Scan# 6031
Delta R.T. -0.05 min
Lab File: VL036148.D
Acq: 11 Dec 2020 4:09

Tgt Ion	Ratio	Lower	Upper
128	100		
127	31.5	11.7	17.5#
129	0.0	9.3	13.9#



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: 0.007 ppbv

RT: 25.07 min Scan# 6930

Delta R.T. 0.07 min

Lab File: VL036148.D

Acq: 11 Dec 2020 4:09

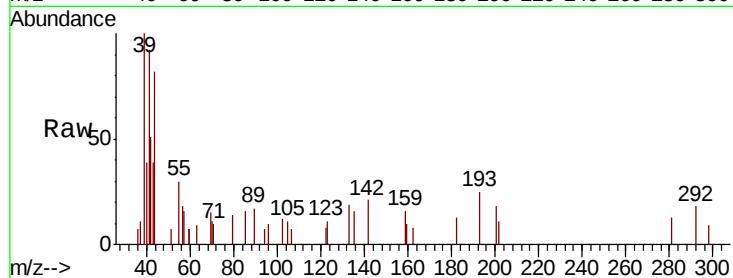
Tot Ion:142 Resp: 206

Ion Ratio Lower Upper

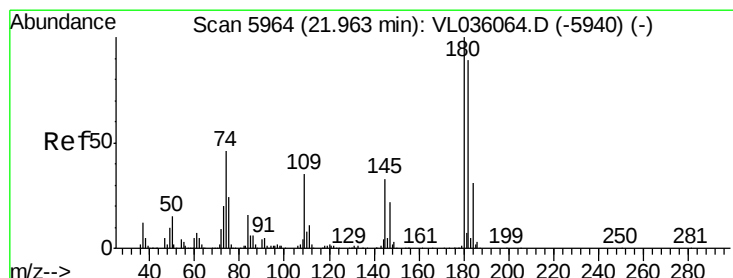
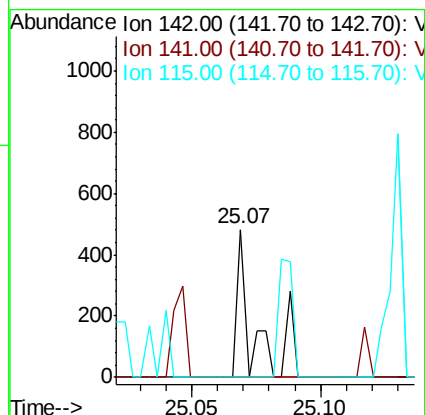
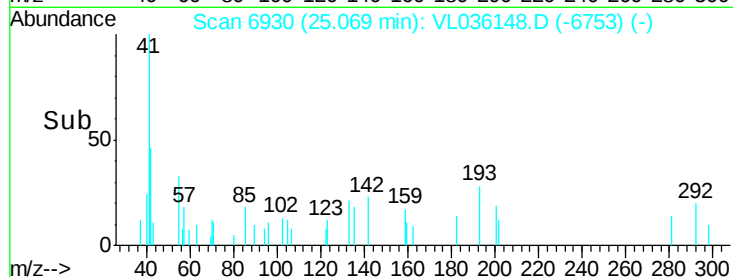
142 100

141 0.0 64.3 96.5#

115 71.4 33.9 50.9#



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



#81

1,2,4-Trichlorobenzene

Concen: 0.002 ppbv

RT: 21.91 min Scan# 5947

Delta R.T. -0.05 min

Lab File: VL036148.D

Acq: 11 Dec 2020 4:09

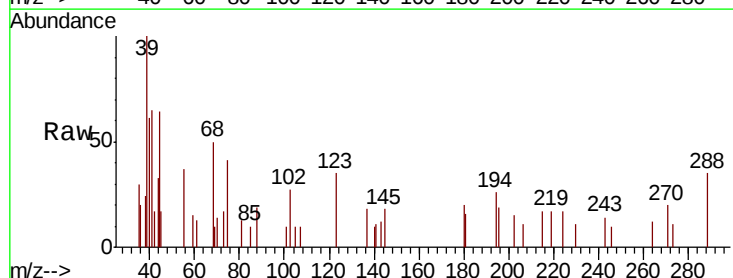
Tgt Ion:180 Resp: 168

Ion Ratio Lower Upper

180 100

182 0.0 0.0 0.0

184 0.0 0.0 0.0



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 184.00 (183.70 to 184.70): V

