

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121020\
 Data File : VL036146.D
 Acq On : 11 Dec 2020 2:47
 Operator : SY/AP
 Sample : L4948-12
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 14 22:26:29 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	1240754	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.16	114	2466778	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.07	117	2231264	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1999458	11.29	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	112.90%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.03	85	37365	0.258	ppbv	97
3) Chlorodifluoromethane	2.97	51	30605	0.216	ppbv	95
4) Chloromethane	3.12	50	12839m	0.185	ppbv	
5) Vinyl Chloride	3.23	62	76	0.001	ppbv #	1
6) Bromomethane	3.46	94	128	0.003	ppbv	80
7) Chloroethane	3.55	64	227	0.009	ppbv #	40
8) Dichlorotetrafluoroethane	3.17	85	641	0.004	ppbv #	16
9) Propene	3.00	41	35262	0.497	ppbv	92
10) Heptane	8.11	43	38825m	0.214	ppbv	
11) Trichlorofluoromethane	3.93	101	42848m	0.252	ppbv	
13) Ethanol	3.59	45	1741939	178.184	ppbv	87
14) Bromoethene	3.72	108	74	0.002	ppbv #	1
15) Acetone	3.83	43	1149847	7.711	ppbv	99
18) 1,1-Dichloroethene	4.28	96	32	0.001	ppbv #	1
19) Isopropyl Alcohol	3.96	45	194470m	2.134	ppbv	
20) Methylene Chloride	4.33	84	40361	0.660	ppbv	90
21) Allyl Chloride	4.40	41	600	0.006	ppbv #	18
22) trans-1,2-Dichloroethene	4.87	96	508	0.010	ppbv #	1
24) 1,1-Dichloroethane	4.99	63	331	0.002	ppbv #	88
26) Hexane	5.67	57	77429m	0.578	ppbv	
27) Carbon Disulfide	4.53	76	660	0.005	ppbv #	1
28) Methyl tert-Butyl Ether	5.02	73	312	0.002	ppbv #	51
29) Chloroform	5.73	83	84221	0.478	ppbv	98
30) Cyclohexane	7.11	84	2405	0.024	ppbv #	1
31) cis-1,2-Dichloroethene	5.53	61	643	0.005	ppbv #	76
32) 1,1,1-Trichloroethane	6.50	97	10788m	0.059	ppbv	
34) 2-Butanone	5.23	43	435431	2.661	ppbv	97
36) Benzene	6.87	78	2177890	10.418	ppbv	96
37) 1,2-Dichloroethane	6.29	62	1617	0.013	ppbv #	83
38) Trichloroethene	7.81	130	10406m	0.133	ppbv	
41) Tetrahydrofuran	6.04	42	13160m	0.135	ppbv	
42) Bromodichloromethane	7.76	83	2487	0.015	ppbv #	59
43) Methyl Methacrylate	8.00	69	19205m	0.214	ppbv	
44) 2,2,4-Trimethylpentane	7.84	57	4048	0.011	ppbv #	1
45) t-1,3-Dichloropropene	9.28	75	36	0.000	ppbv #	42
46) cis-1,3-Dichloropropene	8.68	75	142	0.001	ppbv #	29
47) 1,1,2-Trichloroethane	9.45	97	116	0.001	ppbv #	53
48) Dibromochloromethane	10.70	129	108	0.001	ppbv	69
49) Bromoform	13.01	173	237	0.003	ppbv	90
50) 4-Methyl-2-Pentanone	8.71	43	609	0.002	ppbv #	40
51) 2-Hexanone	10.10	43	595	0.003	ppbv #	29

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121020\
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 Misc : 400ml/MSVOA L
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Quant Time: Dec 14 22:26:29 2020

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

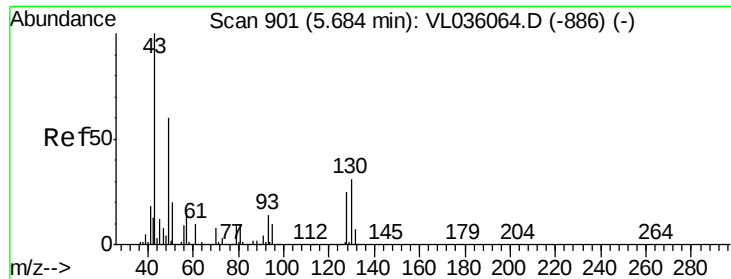
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020

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

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Tetrachloroethene	11.21	164	118799m	1.570	ppbv	
53) Toluene	9.79	91	142011	0.605	ppbv	95
54) 1,2-Dibromoethane	10.57	107	143	0.001	ppbv	84
56) 1,1,1,2-Tetrachloroethane	12.03	131	95	0.001	ppbv #	1
59) m/p-Xylene	12.96	91	67566m	0.262	ppbv	
60) o-Xylene	13.68	91	31487m	0.130	ppbv	
61) Styrene	13.52	104	2955	0.019	ppbv #	1
62) Isopropylbenzene	14.65	105	1603563m	4.458	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.65	83	400	0.002	ppbv #	25
64) n-propylbenzene	15.54	120	560	0.006	ppbv #	1
65) tert-Butylbenzene	16.72	119	605	0.002	ppbv #	1
66) Benzyl Chloride	16.95	91	301	0.004	ppbv #	1
67) sec-Butylbenzene	17.26	105	494	0.001	ppbv #	1
69) p-Isopropyltoluene	17.64	119	4583	0.014	ppbv #	1
70) n-Butylbenzene	18.51	91	813	0.003	ppbv #	33
71) 2-Chlorotoluene	15.20	91	280	0.001	ppbv	85
72) 4-Ethyltoluene	15.81	105	2070	0.008	ppbv #	55
73) 1,3,5-Trimethylbenzene	15.97	105	2028	0.008	ppbv #	35
75) 1,3-Dichlorobenzene	16.97	146	990	0.008	ppbv #	1
76) 1,4-Dichlorobenzene	17.11	146	465	0.004	ppbv #	1
77) 1,2-Dichlorobenzene	17.79	146	186	0.002	ppbv #	1
78) Hexachloro-1,3-Butadiene	23.35	225	231	0.002	ppbv #	47
79) Naphthalene	22.15	128	280	0.002	ppbv #	67
80) Naphthalene,2-methyl-	24.91	142	160	0.006	ppbv #	60
81) 1,2,4-Trichlorobenzene	21.90	180	140	0.002	ppbv #	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.04 min

Lab File: VL036146.D

Acq: 11 Dec 2020 2:47

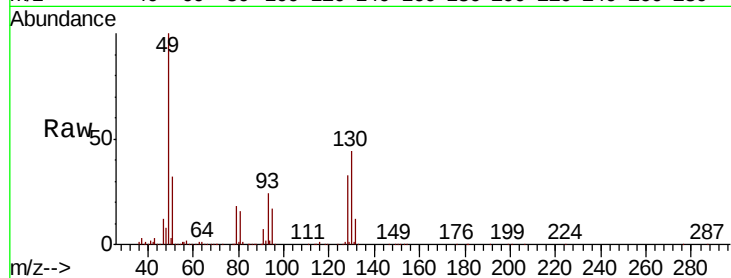
Tot Ion: 49 Resp: 1240754

Ion	Ratio	Lower	Upper
49	100		
128	35.4	21.1	63.1
130	45.5	27.1	81.3

49 100

128 35.4 21.1 63.1

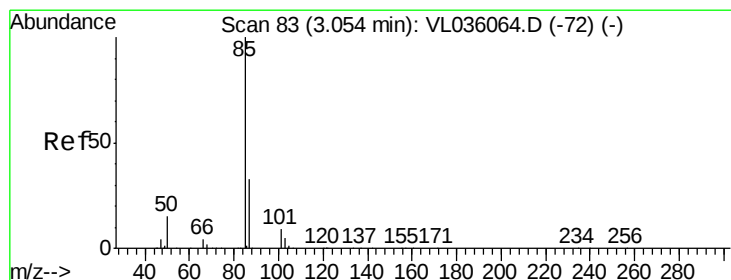
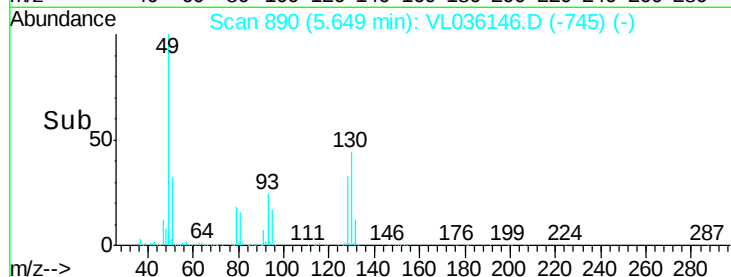
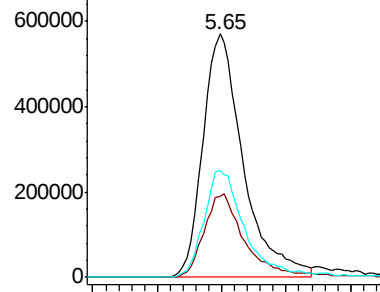
130 45.5 27.1 81.3



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: 0.258 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.02 min

Lab File: VL036146.D

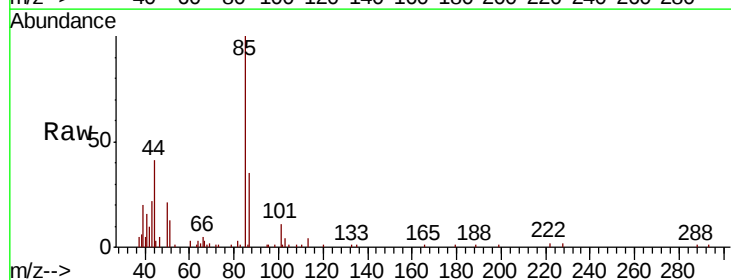
Acq: 11 Dec 2020 2:47

Tgt Ion: 85 Resp: 37365

Ion	Ratio	Lower	Upper
85	100		
87	34.6	26.5	39.7

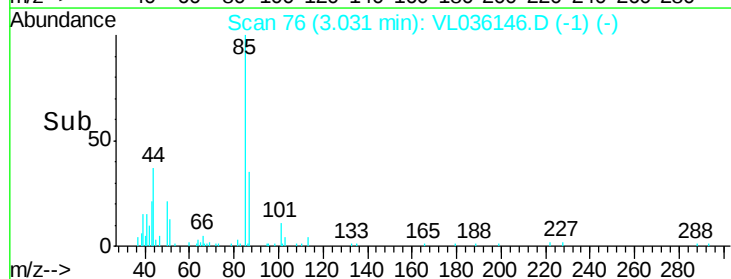
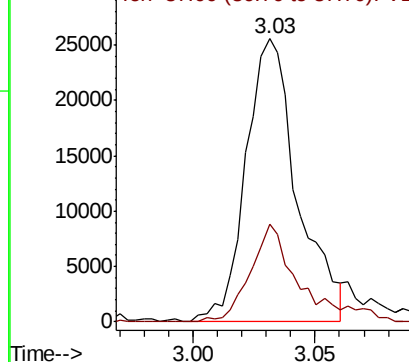
85 100

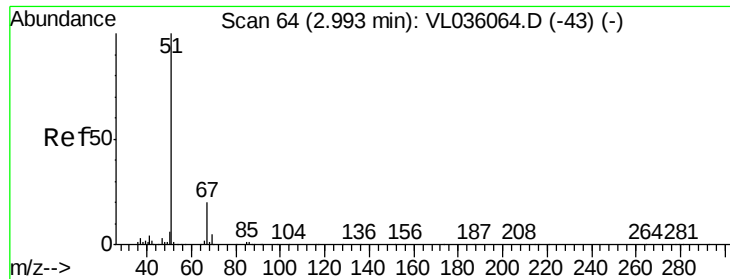
87 34.6 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.216 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.03 min

Lab File: VL036146.D

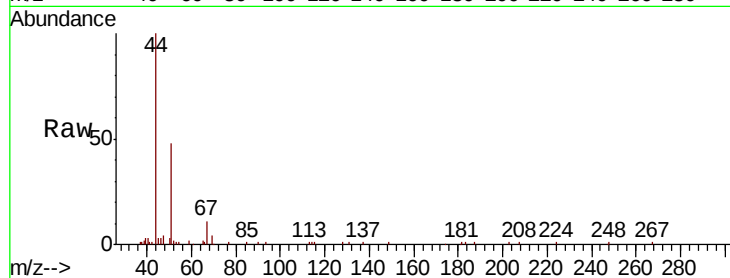
Acq: 11 Dec 2020 2:47

Tot Ion: 51 Resp: 30605

Ion Ratio Lower Upper

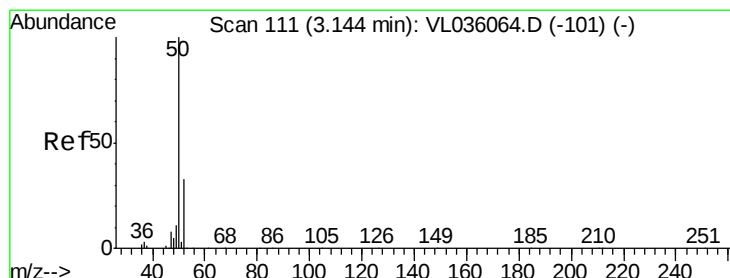
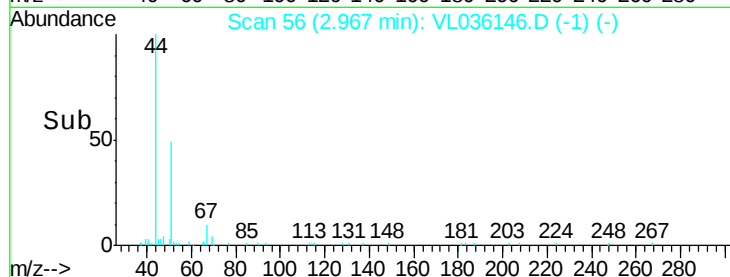
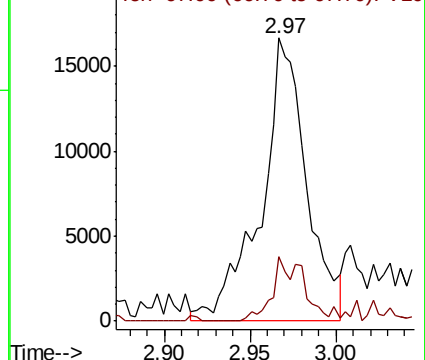
51 100

67 15.9 14.3 21.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.185 ppbv m

RT: 3.12 min Scan# 104

Delta R.T. -0.02 min

Lab File: VL036146.D

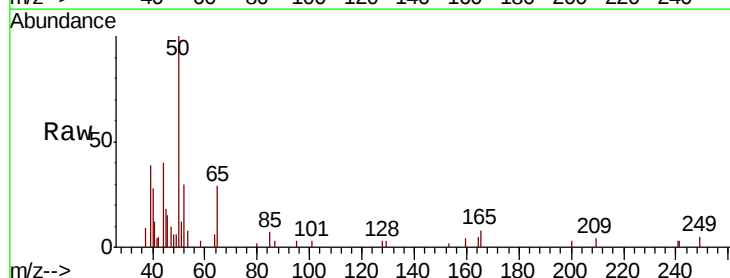
Acq: 11 Dec 2020 2:47

Tgt Ion: 50 Resp: 12839

Ion Ratio Lower Upper

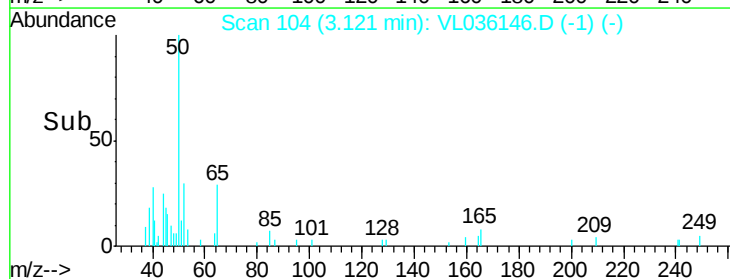
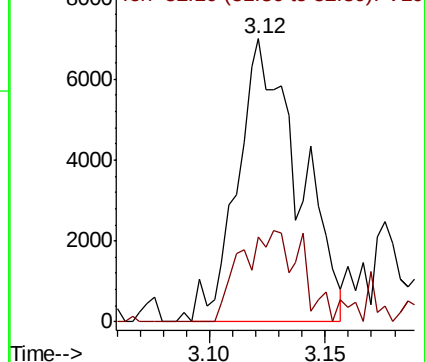
50 100

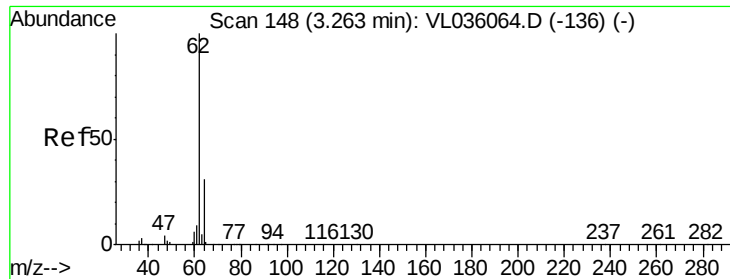
52 30.0 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.001 ppbv

RT: 3.23 min Scan# 139

Delta R.T. -0.03 min

Lab File: VL036146.D

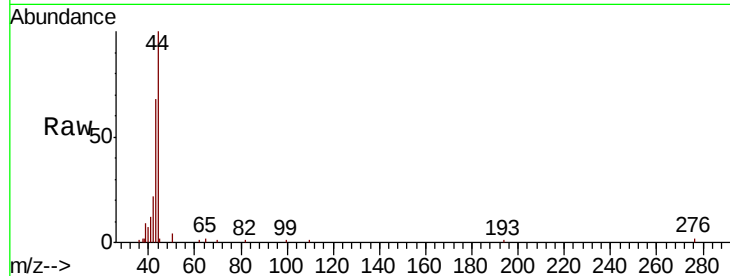
Acq: 11 Dec 2020 2:47

Tot Ion: 62 Resp: 76

Ion Ratio Lower Upper

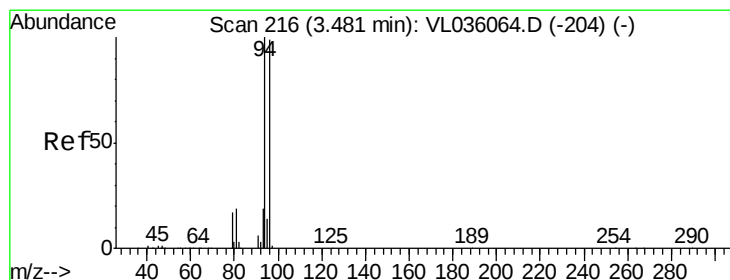
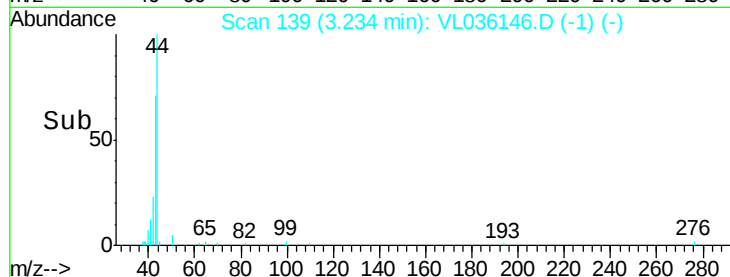
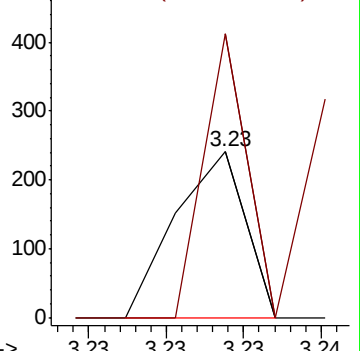
62 100

64 171.0 24.5 36.7#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.003 ppbv

RT: 3.46 min Scan# 210

Delta R.T. -0.02 min

Lab File: VL036146.D

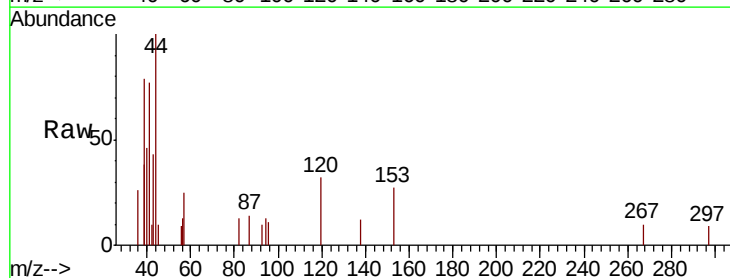
Acq: 11 Dec 2020 2:47

Tgt Ion: 94 Resp: 128

Ion Ratio Lower Upper

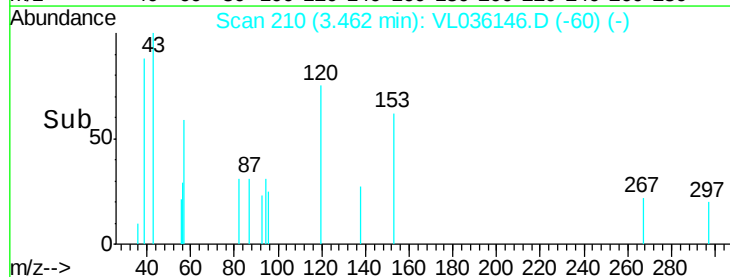
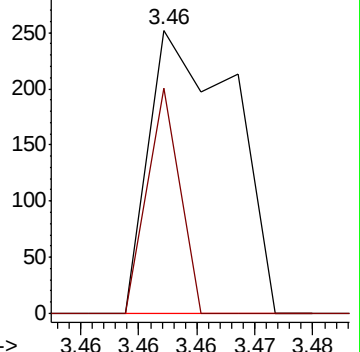
94 100

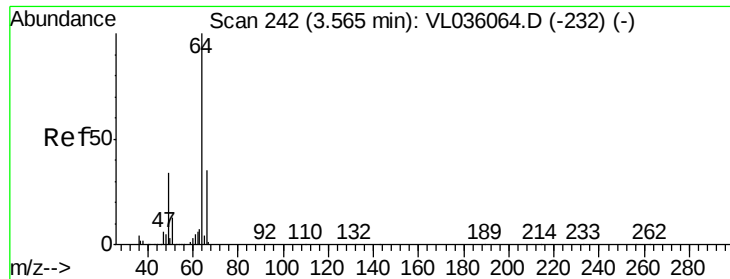
96 79.8 79.4 119.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.009 ppbv

RT: 3.55 min Scan# 237

Delta R.T. -0.02 min

Lab File: VL036146.D

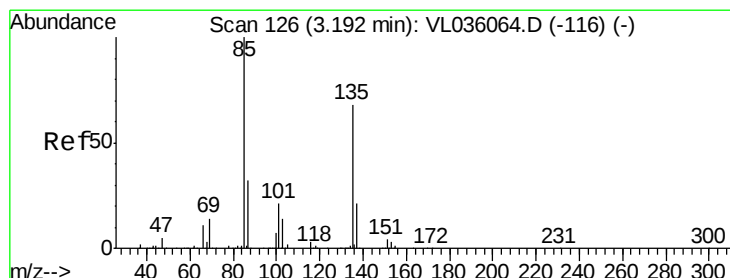
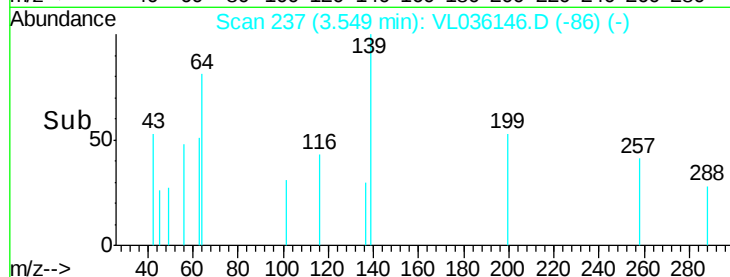
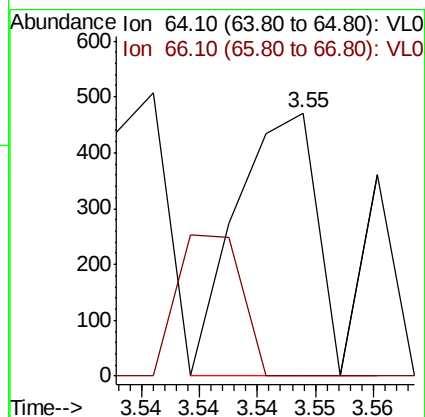
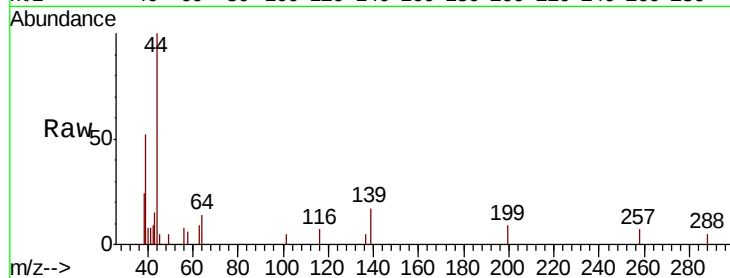
Acq: 11 Dec 2020 2:47

Tot Ion: 64 Resp: 227

Ion Ratio Lower Upper

64 100

66 0.0 27.7 41.5#



#8

Dichlorotetrafluoroethane

Concen: 0.004 ppbv

RT: 3.17 min Scan# 120

Delta R.T. -0.02 min

Lab File: VL036146.D

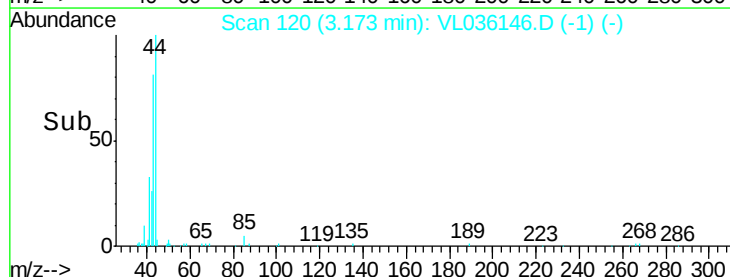
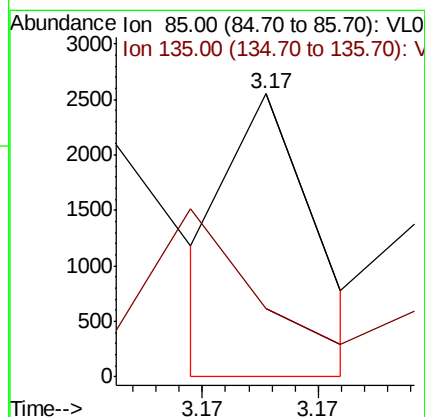
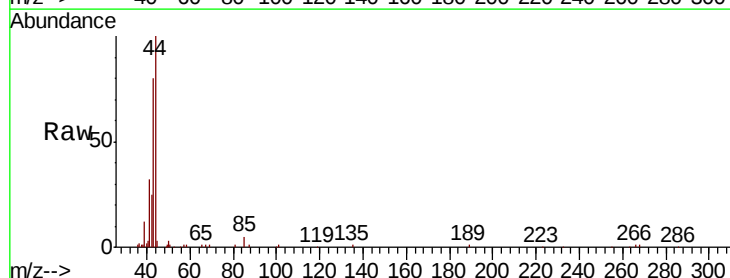
Acq: 11 Dec 2020 2:47

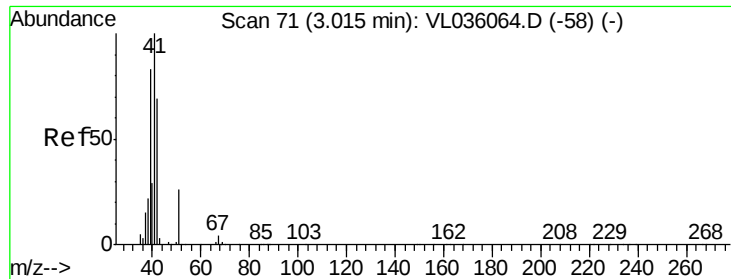
Tgt Ion: 85 Resp: 641

Ion Ratio Lower Upper

85 100

135 134.5 53.8 80.8#





#9

Propene

Concen: 0.497 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.02 min

Lab File: VL036146.D

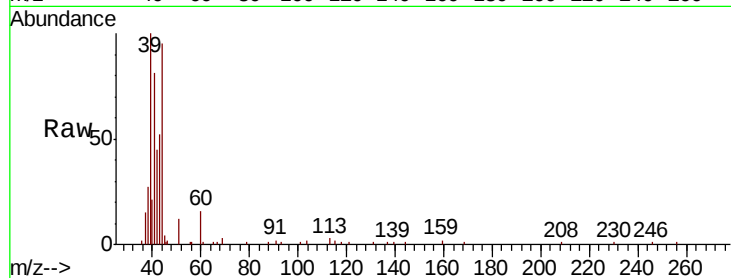
Acq: 11 Dec 2020 2:47

Tot Ion: 41 Resp: 35262

Ion Ratio Lower Upper

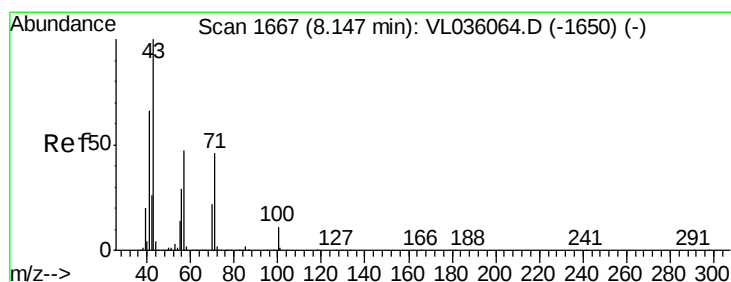
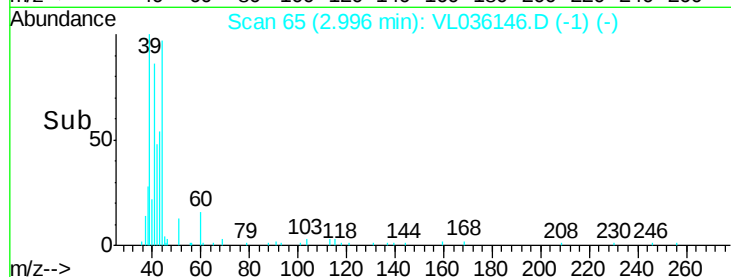
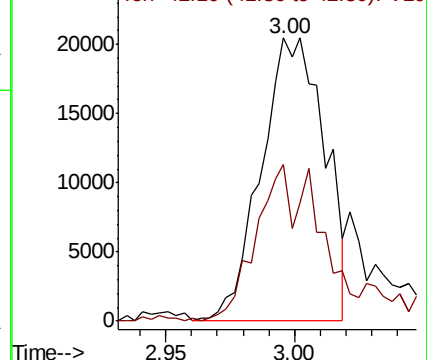
41 100

42 64.4 57.0 85.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.214 ppbv m

RT: 8.11 min Scan# 1654

Delta R.T. -0.04 min

Lab File: VL036146.D

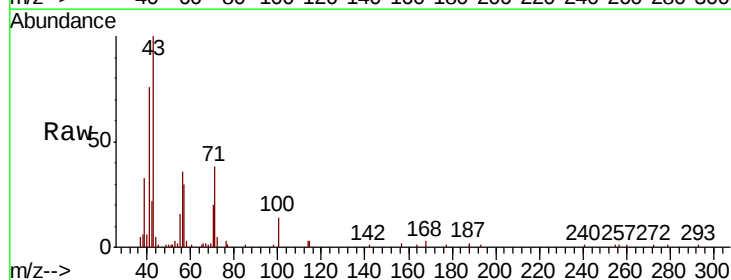
Acq: 11 Dec 2020 2:47

Tgt Ion: 43 Resp: 38825

Ion Ratio Lower Upper

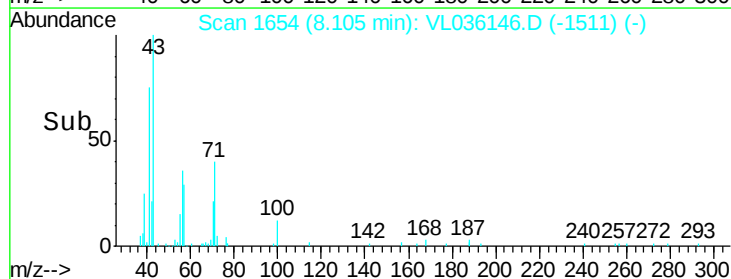
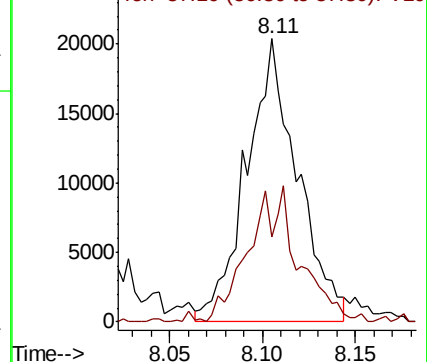
43 100

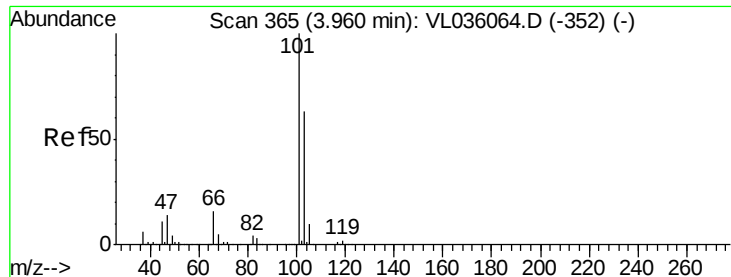
57 0.0 37.9 56.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0

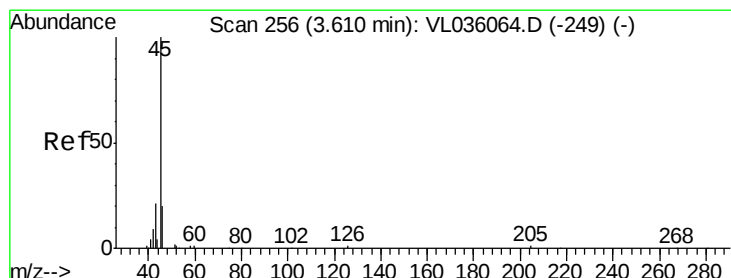
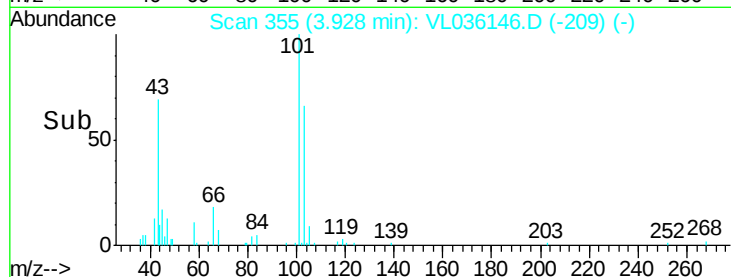
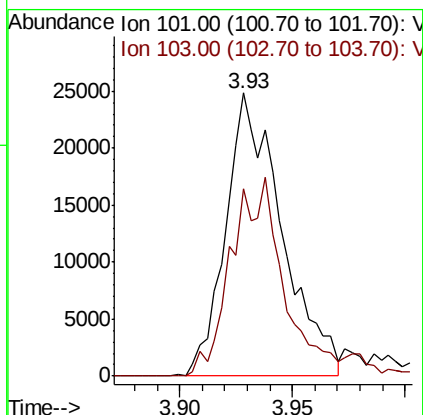
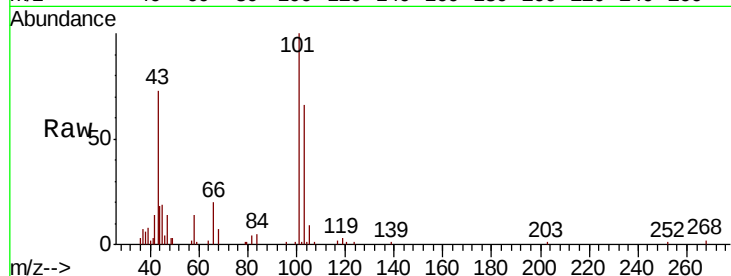
Ion 57.10 (56.80 to 57.80): VL0





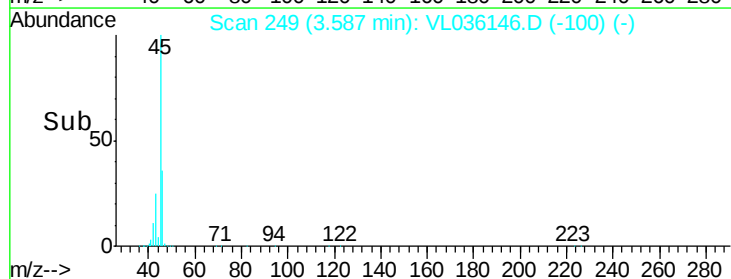
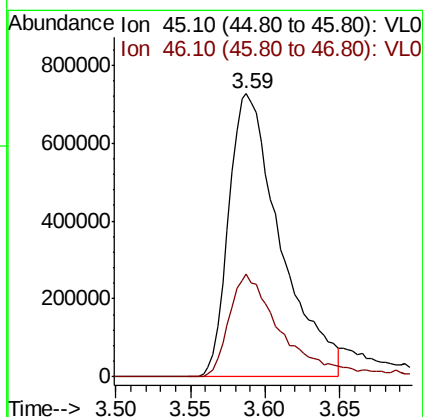
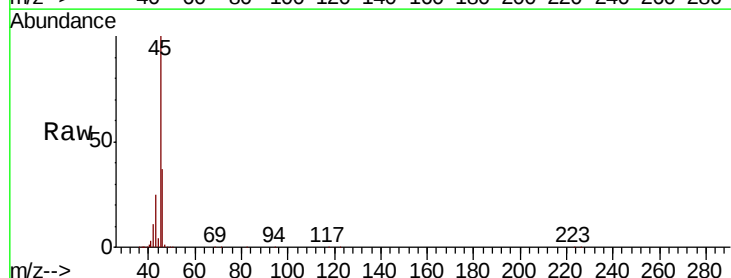
#11
 Trichlorofluoromethane
 Concen: 0.252 ppbv
 RT: 3.93 min Scan# 355
 Delta R.T. -0.03 min
 Lab File: VL036146.D
 Acq: 11 Dec 2020 2:47

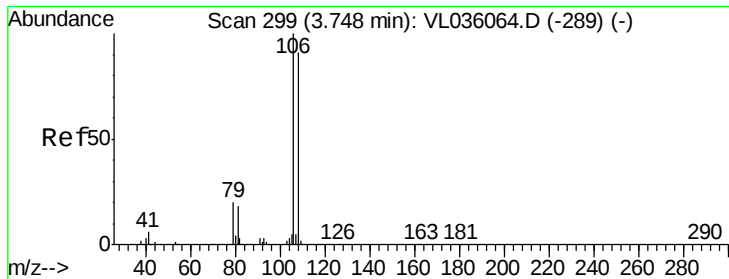
Tot Ion:101 Resp: 42848
 Ion Ratio Lower Upper
 101 100
 103 66.3 50.3 75.5



#13
 Ethanol
 Concen: 178.184 ppbv
 RT: 3.59 min Scan# 249
 Delta R.T. -0.02 min
 Lab File: VL036146.D
 Acq: 11 Dec 2020 2:47

Tgt Ion: 45 Resp: 1741939
 Ion Ratio Lower Upper
 45 100
 46 39.0 19.0 75.8





#14

Bromoethene

Concen: 0.002 ppbv

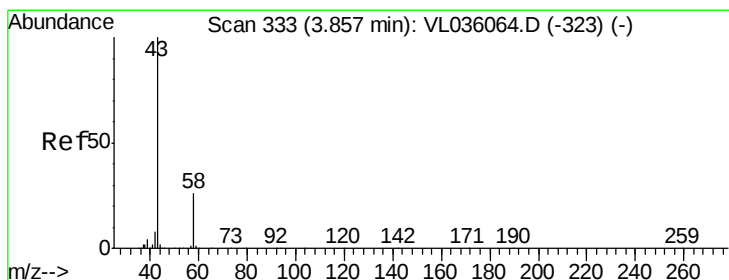
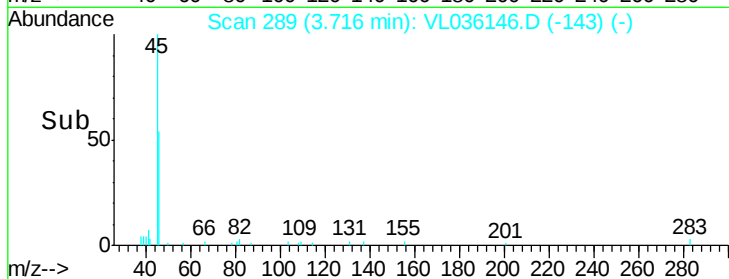
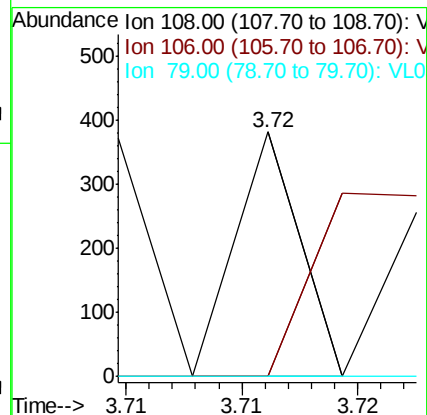
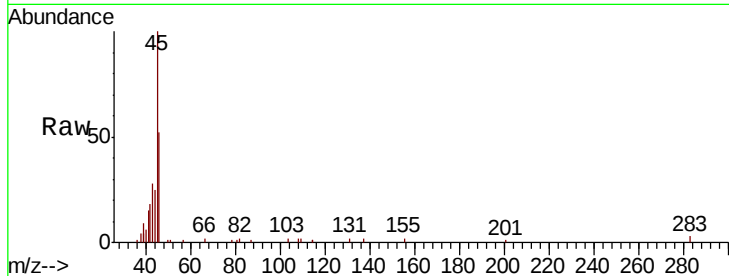
RT: 3.72 min Scan# 289

Delta R.T. -0.03 min

Lab File: VL036146.D

Acq: 11 Dec 2020 2:47

Tot Ion:	108	Resp:	74
Ion	Ratio	Lower	Upper
108	100		
106	281.1	91.0	136.4#
79	0.0	19.3	28.9#



#15

Acetone

Concen: 7.711 ppbv

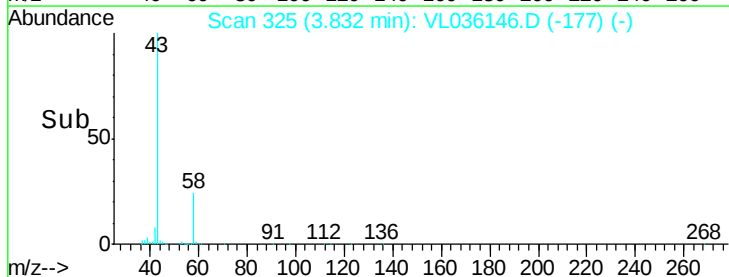
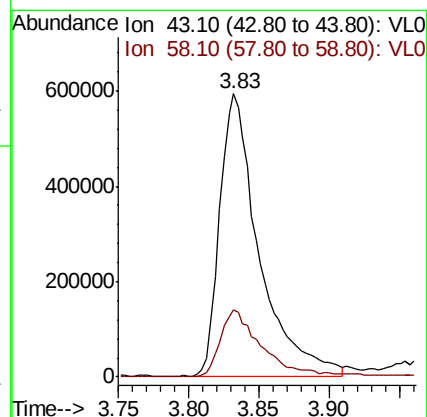
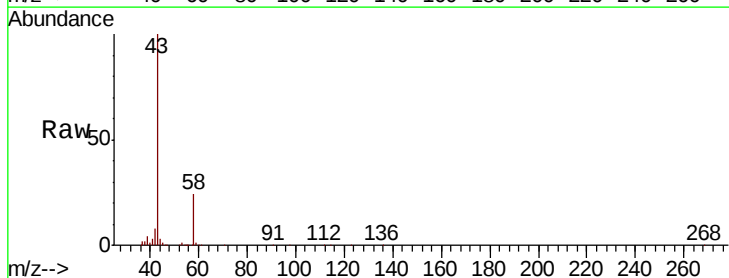
RT: 3.83 min Scan# 325

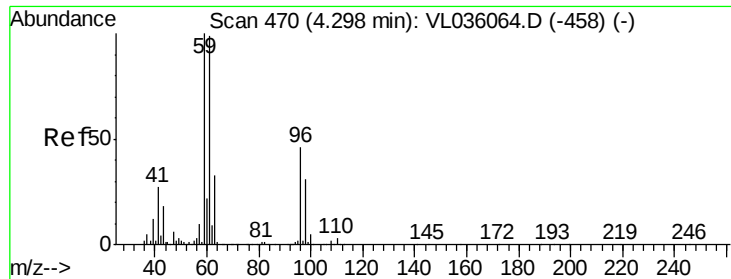
Delta R.T. -0.03 min

Lab File: VL036146.D

Acq: 11 Dec 2020 2:47

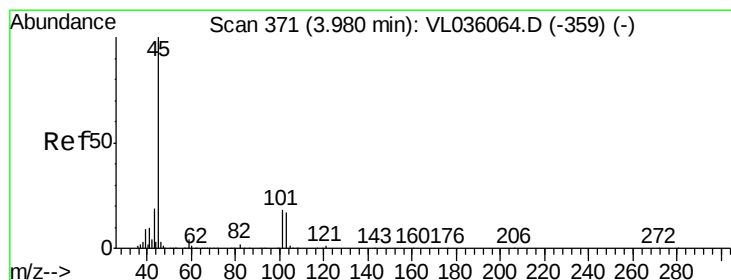
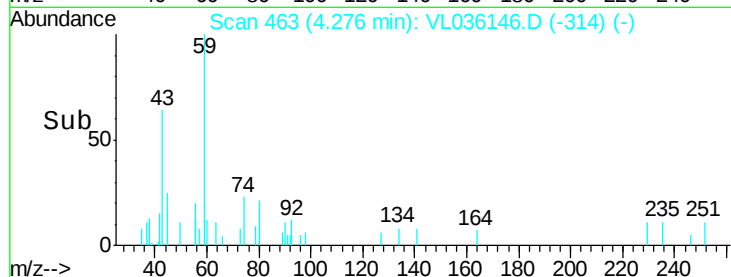
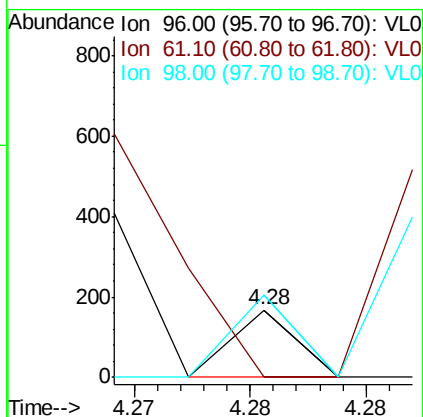
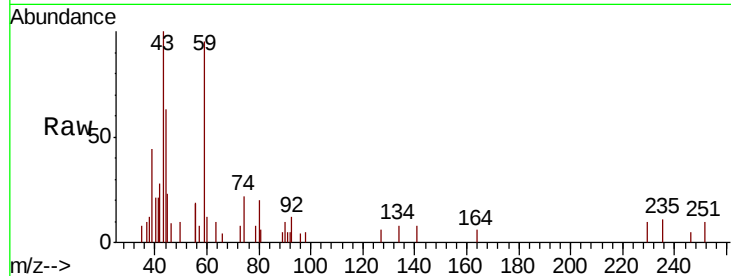
Tgt Ion:	43	Resp:	1149847
Ion	Ratio	Lower	Upper
43	100		
58	25.6	20.9	31.3





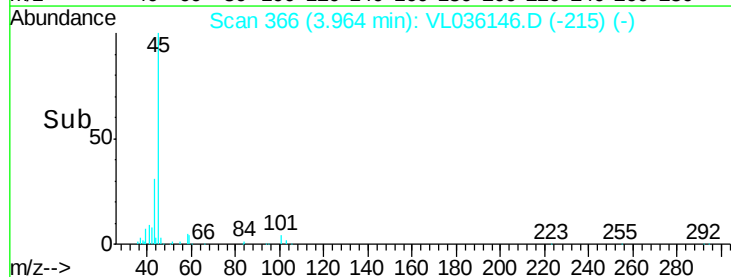
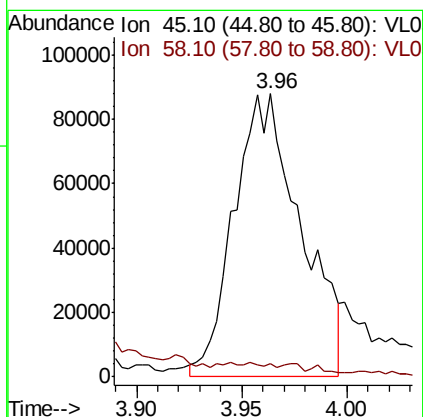
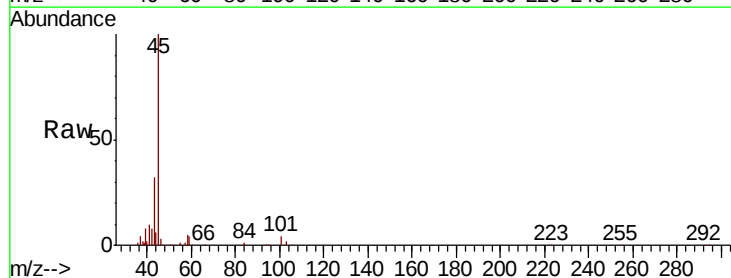
#18
 1,1-Dichloroethene
 Concen: 0.001 ppbv
 RT: 4.28 min Scan# 463
 Delta R.T. -0.02 min
 Lab File: VL036146.D
 Acq: 11 Dec 2020 2:47

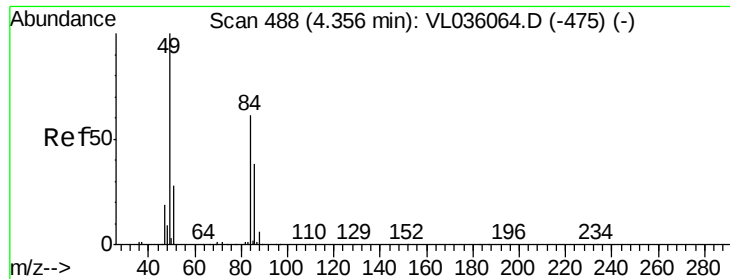
Tot Ion	Ratio	Lower	Upper
96	100		
61	0.0	171.4	257.2#
98	123.4	54.2	81.2#



#19
 Isopropyl Alcohol
 Concen: 2.134 ppbv m
 RT: 3.96 min Scan# 366
 Delta R.T. -0.02 min
 Lab File: VL036146.D
 Acq: 11 Dec 2020 2:47

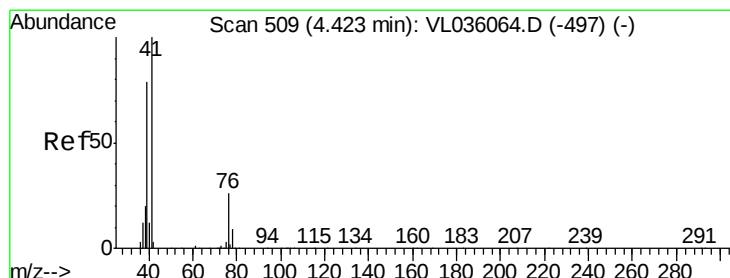
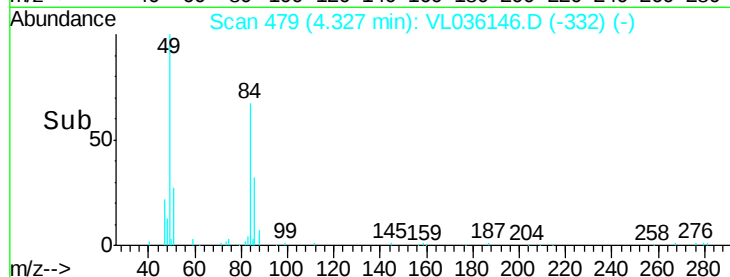
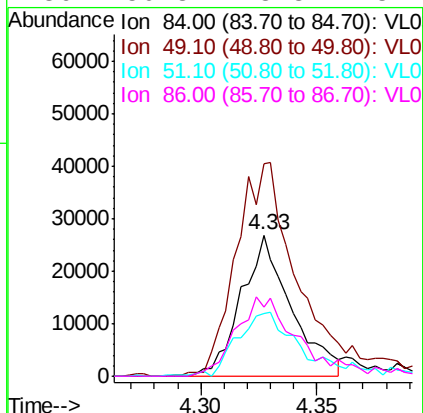
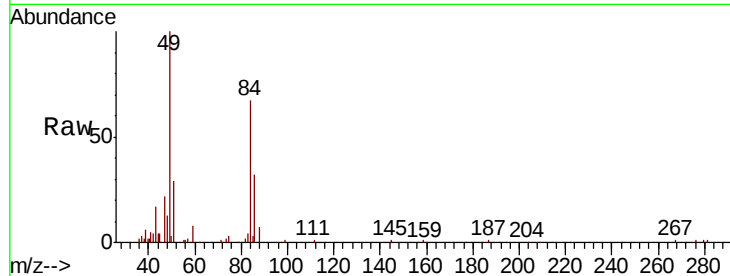
Tgt Ion	Ratio	Lower	Upper
45	100		
58	0.0	0.0	0.0





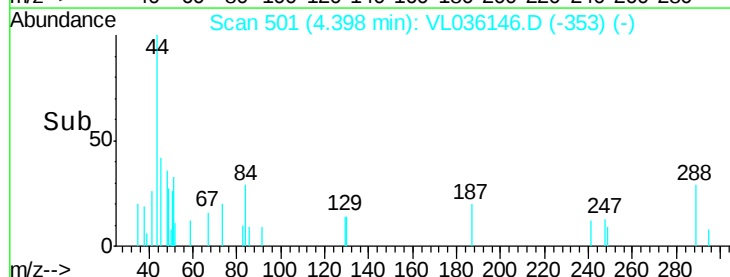
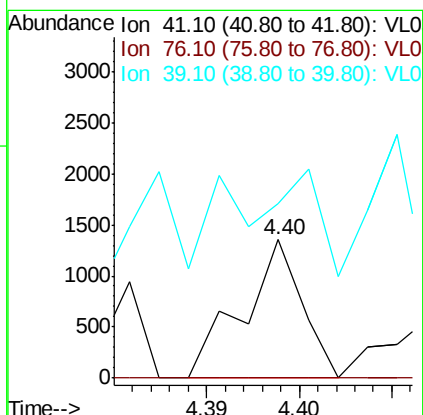
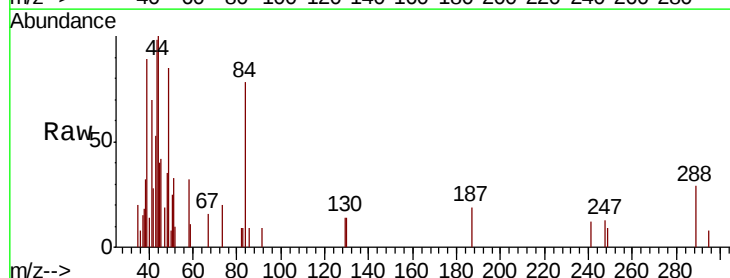
#20
Methvlene Chloride
Concen: 0.660 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.03 min
Lab File: VL036146.D
Acq: 11 Dec 2020 2:47

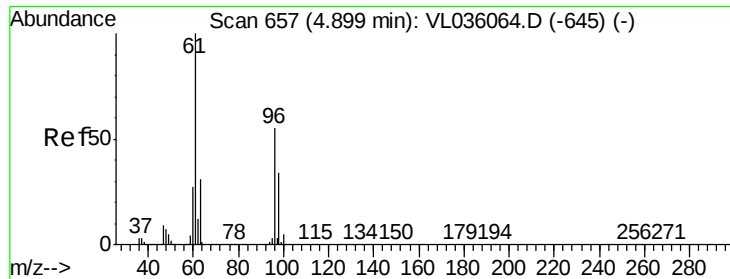
Tot Ion:	84	Resp:	40361
Ion	Ratio	Lower	Upper
84	100		
49	152.5	133.0	199.4
51	44.5	38.9	58.3
86	50.3	48.8	73.2



#21
Allyl Chloride
Concen: 0.006 ppbv
RT: 4.40 min Scan# 501
Delta R.T. -0.03 min
Lab File: VL036146.D
Acq: 11 Dec 2020 2:47

Tgt Ion:	41	Resp:	600
Ion	Ratio	Lower	Upper
41	100		
76	0.0	21.0	31.4#
39	0.0	66.0	99.0#





#22

trans-1,2-Dichloroethene

Concen: 0.010 ppbv

RT: 4.87 min Scan# 647

Delta R.T. -0.03 min

Lab File: VL036146.D

Acq: 11 Dec 2020 2:47

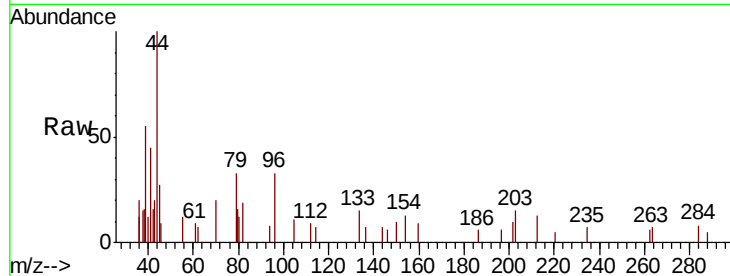
Tot Ion: 96 Resp: 508

Ion Ratio Lower Upper

96 100

61 9.7 145.7 218.5#

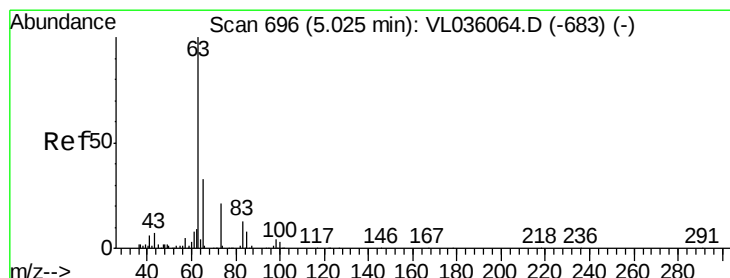
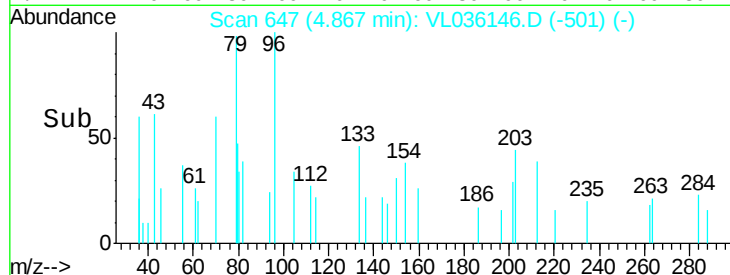
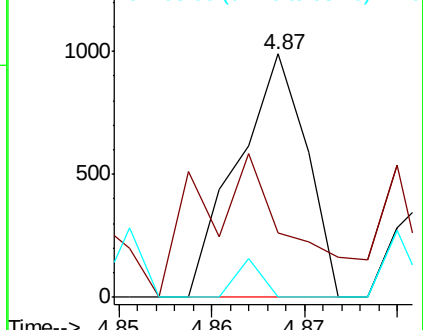
98 0.0 49.2 73.8#



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: 0.002 ppbv

RT: 4.99 min Scan# 685

Delta R.T. -0.04 min

Lab File: VL036146.D

Acq: 11 Dec 2020 2:47

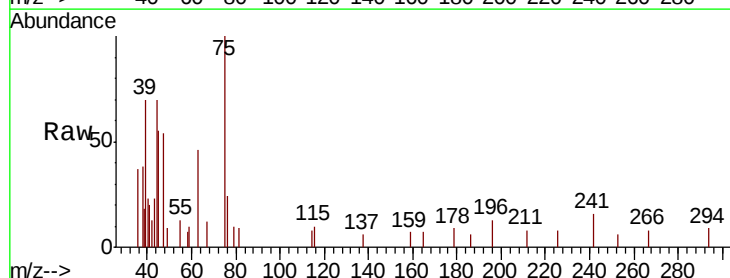
Tgt Ion: 63 Resp: 331

Ion Ratio Lower Upper

63 100

98 0.0 2.2 6.6#

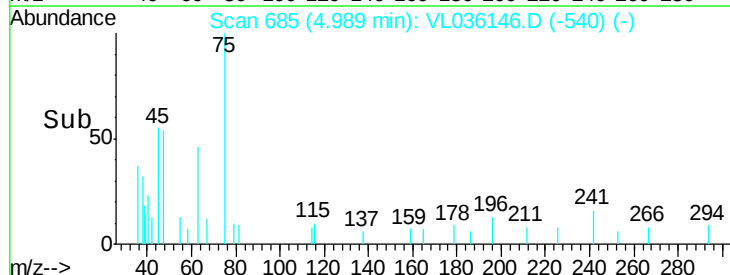
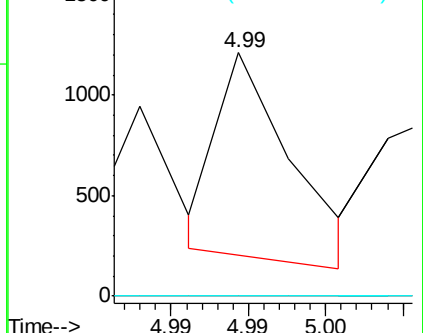
100 0.0 1.5 4.4#

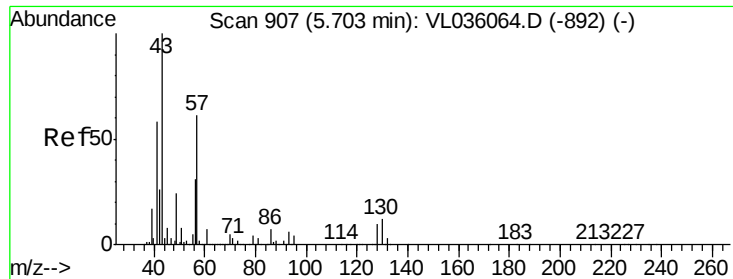


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#26

Hexane

Concen: 0.578 ppbv m

RT: 5.67 min Scan# 897

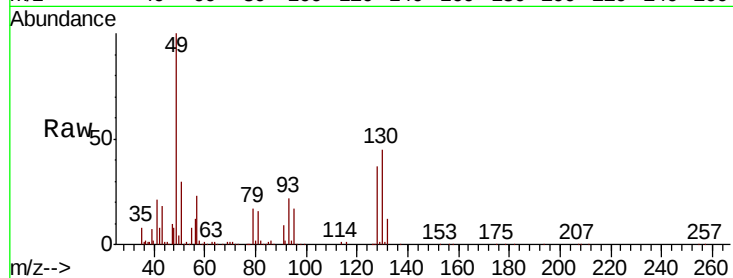
Delta R.T. -0.03 min

Lab File: VL036146.D

Acq: 11 Dec 2020 2:47

Tot Ion: 57 Resp: 77429

Ion	Ratio	Lower	Upper
57	100		
41	105.2	82.9	124.3
43	107.5	199.9	299.9#
56	56.6	43.1	64.7

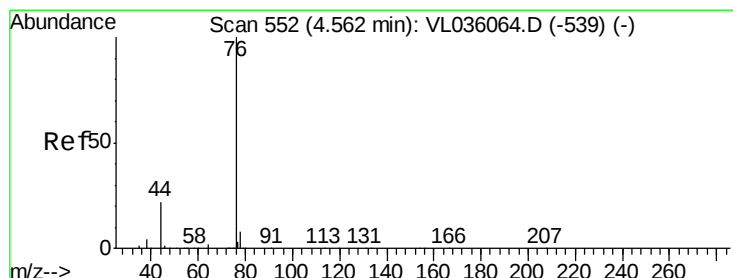
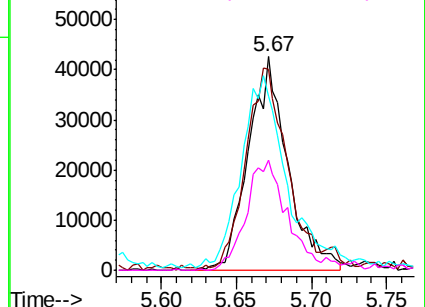
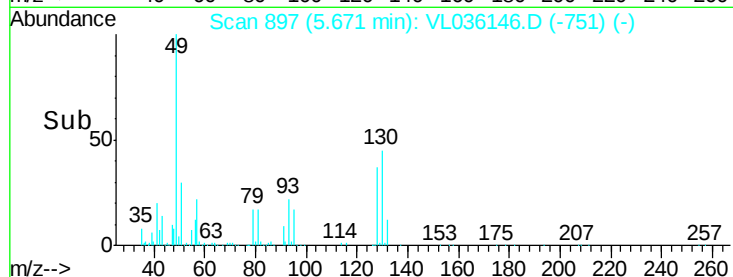


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.005 ppbv

RT: 4.53 min Scan# 543

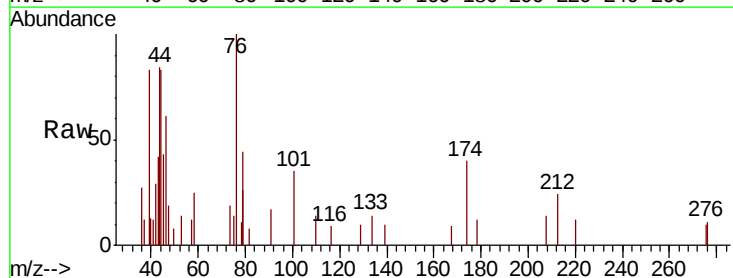
Delta R.T. -0.03 min

Lab File: VL036146.D

Acq: 11 Dec 2020 2:47

Tgt Ion: 76 Resp: 660

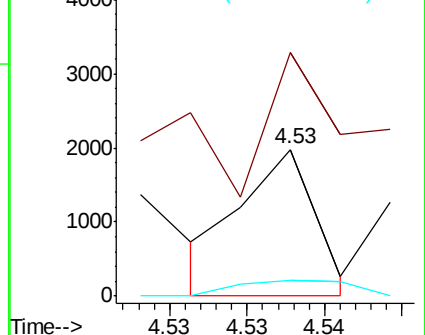
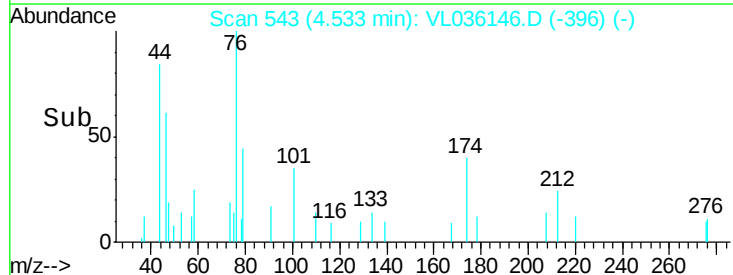
Ion	Ratio	Lower	Upper
76	100		
44	285.0	17.9	26.9#
78	0.0	7.8	11.8#

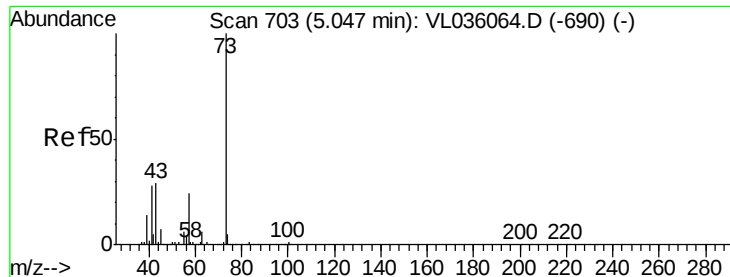


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

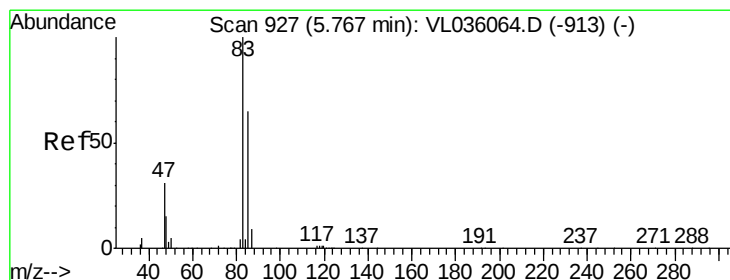
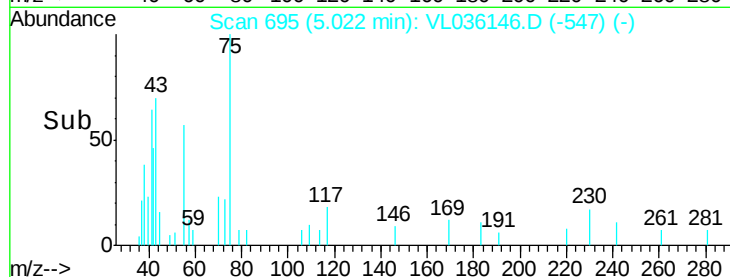
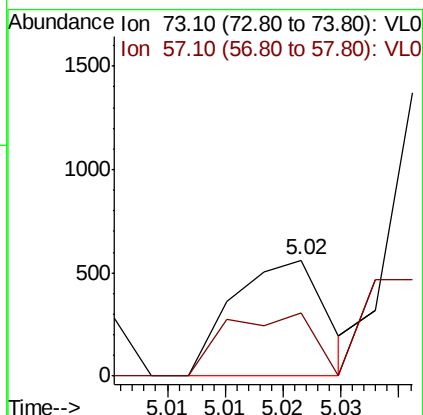
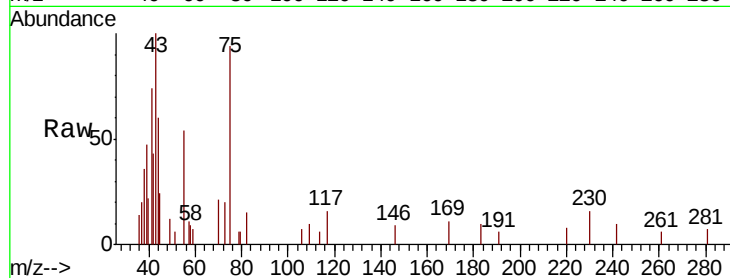
Ion 78.00 (77.70 to 78.70): VL0





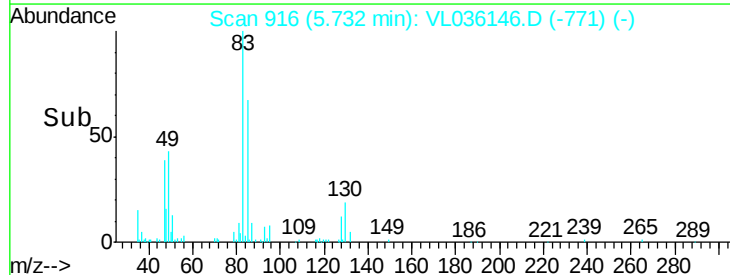
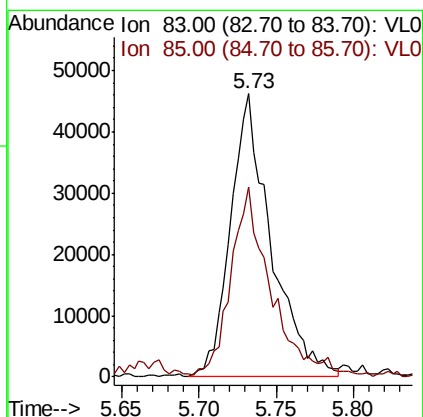
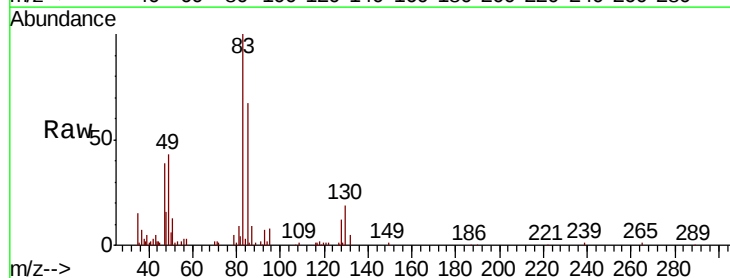
#28
Methvl tert-Butvl Ether
Concen: 0.002 ppbv
RT: 5.02 min Scan# 695
Delta R.T. -0.03 min
Lab File: VL036146.D
Acq: 11 Dec 2020 2:47

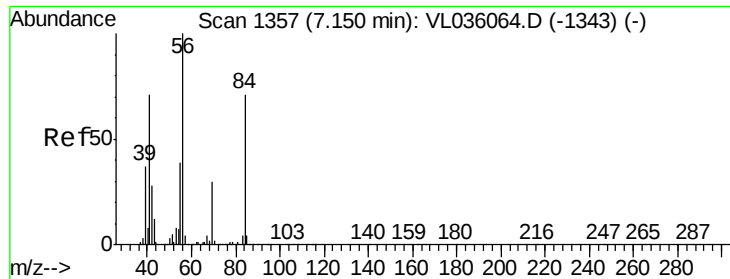
Tot Ion: 73 Resp: 312
Ion Ratio Lower Upper
73 100
57 0.0 19.2 28.8#



#29
Chloroform
Concen: 0.478 ppbv
RT: 5.73 min Scan# 916
Delta R.T. -0.04 min
Lab File: VL036146.D
Acq: 11 Dec 2020 2:47

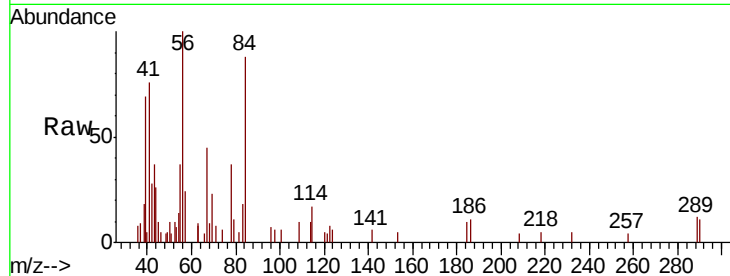
Tgt Ion: 83 Resp: 84221
Ion Ratio Lower Upper
83 100
85 65.9 51.8 77.6



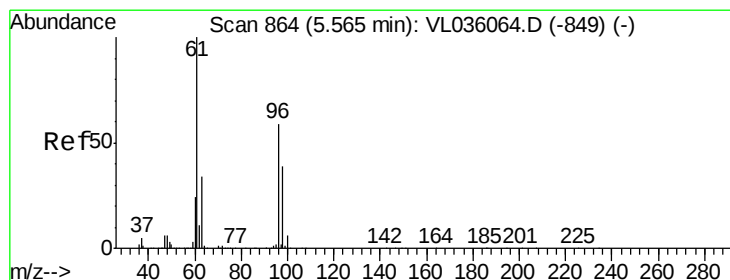
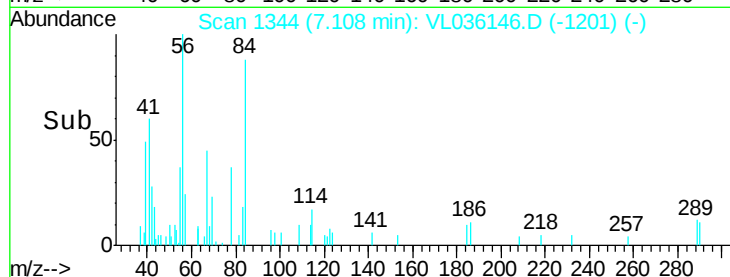
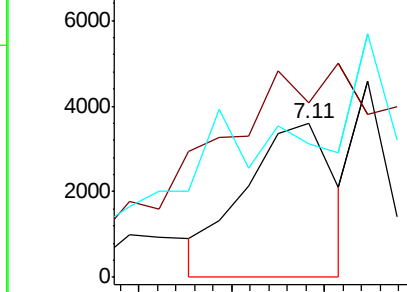


#30
Cvclohexane
Concen: 0.024 ppbv
RT: 7.11 min Scan# 1344
Delta R.T. -0.04 min
Lab File: VL036146.D
Acq: 11 Dec 2020 2:47

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	128.0	192.0#
41	0.0	81.3	121.9#

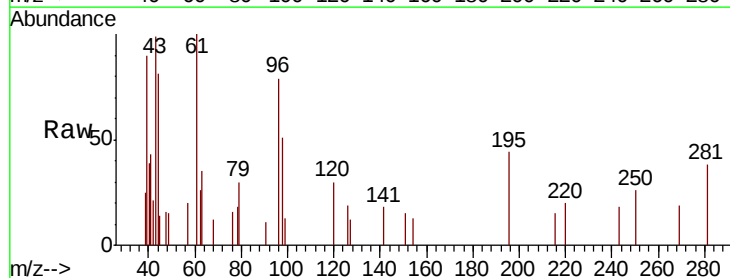


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

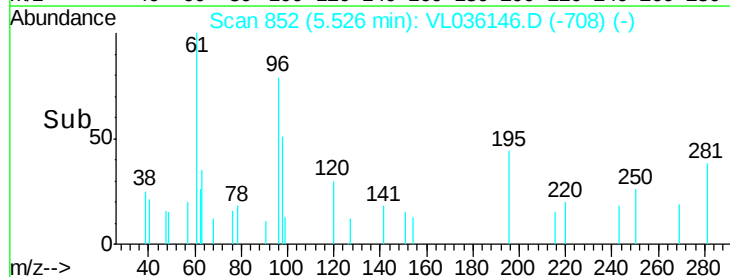
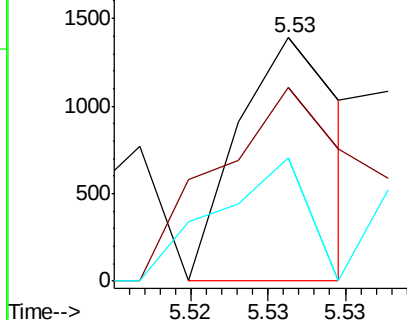


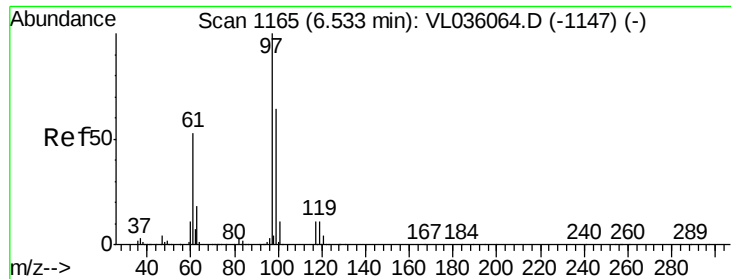
#31
cis-1,2-Dichloroethene
Concen: 0.005 ppbv
RT: 5.53 min Scan# 852
Delta R.T. -0.04 min
Lab File: VL036146.D
Acq: 11 Dec 2020 2:47

Tgt Ion	Ratio	Lower	Upper
61	100		
96	37.8	47.3	70.9#
98	50.6	31.4	47.0#



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0





#32

1,1,1-Trichloroethane

Concen: 0.059 ppbv m

RT: 6.50 min Scan# 1154

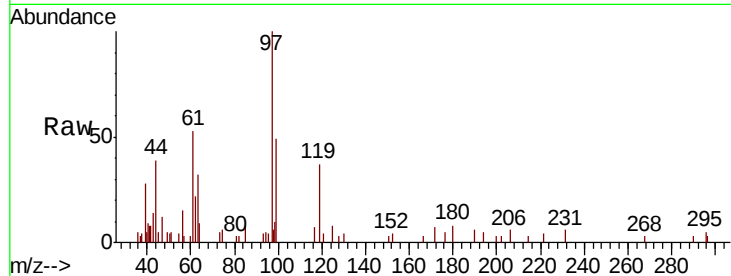
Delta R.T. -0.04 min

Lab File: VL036146.D

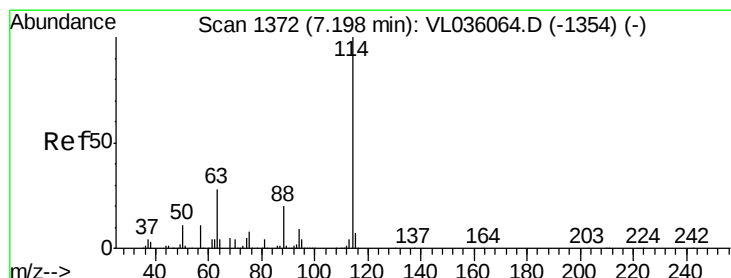
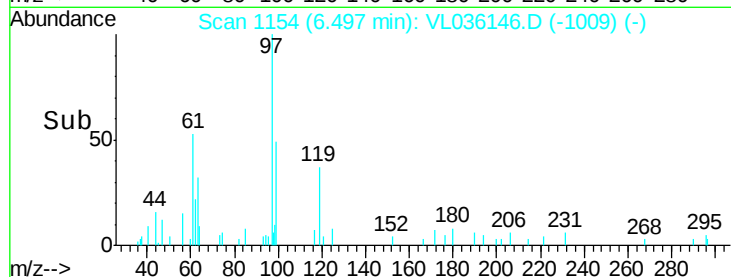
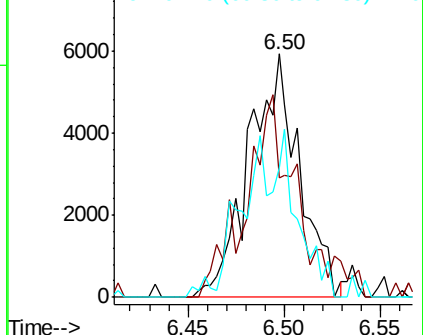
Acq: 11 Dec 2020 2:47

Tot Ion: 97 Resp: 10788

Ion	Ratio	Lower	Upper
97	100		
99	84.6	52.4	78.6#
61	70.9	43.4	65.0#



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: 7.16 min Scan# 1359

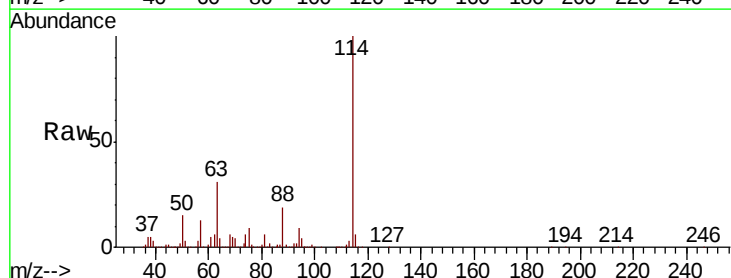
Delta R.T. -0.04 min

Lab File: VL036146.D

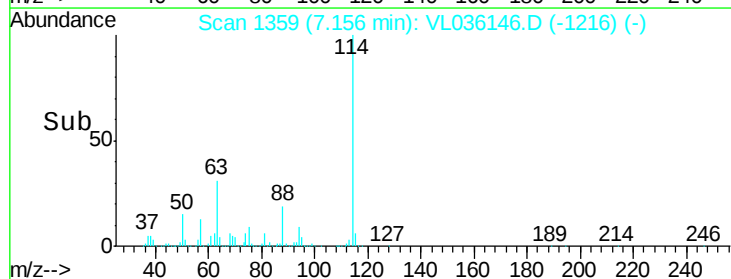
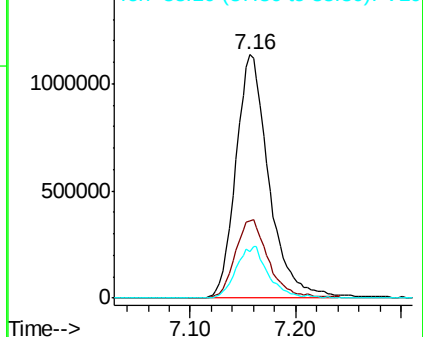
Acq: 11 Dec 2020 2:47

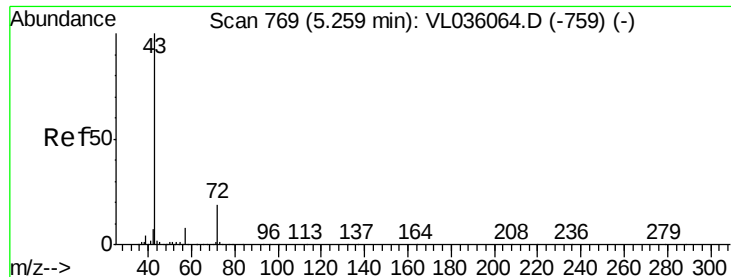
Tgt Ion: 114 Resp: 2466778

Ion	Ratio	Lower	Upper
114	100		
63	33.1	23.6	35.4
88	21.0	15.8	23.6



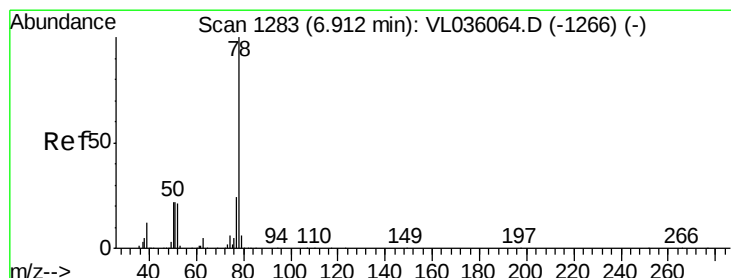
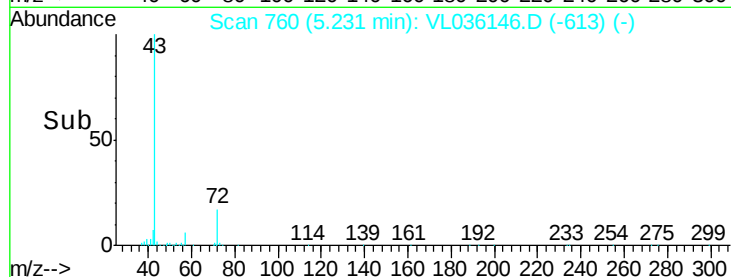
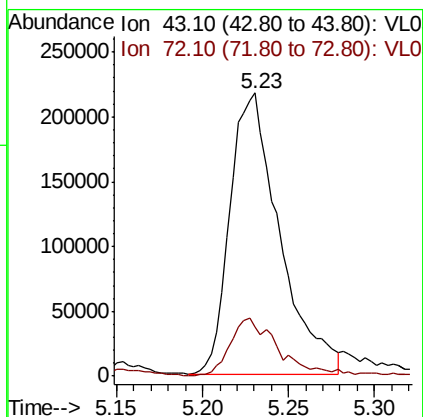
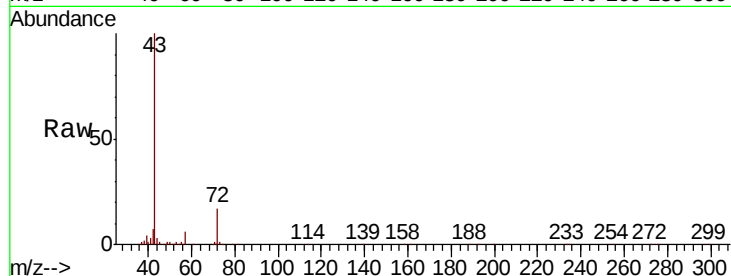
Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





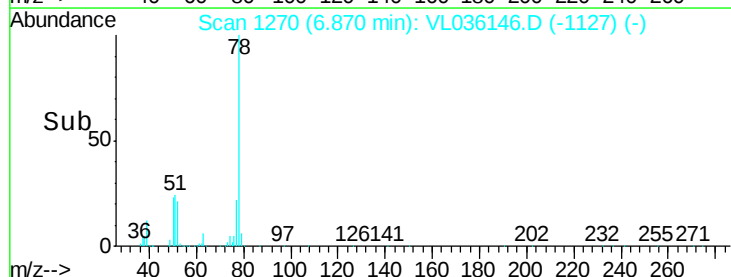
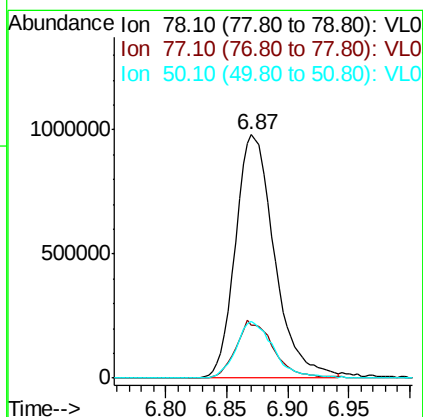
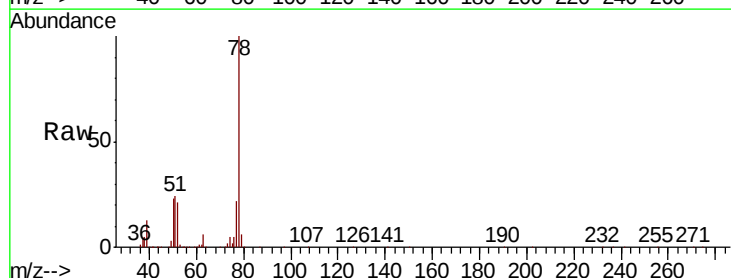
#34
2-Butanone
Concen: 2.661 ppbv
RT: 5.23 min Scan# 760
Delta R.T. -0.03 min
Lab File: VL036146.D
Acq: 11 Dec 2020 2:47

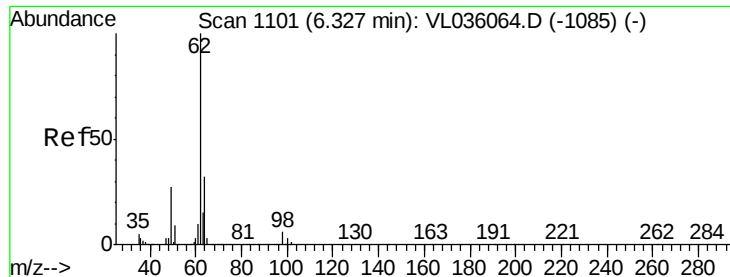
Tot Ion: 43 Resp: 435431
Ion Ratio Lower Upper
43 100
72 21.8 16.5 24.7



#36
Benzene
Concen: 10.418 ppbv
RT: 6.87 min Scan# 1270
Delta R.T. -0.04 min
Lab File: VL036146.D
Acq: 11 Dec 2020 2:47

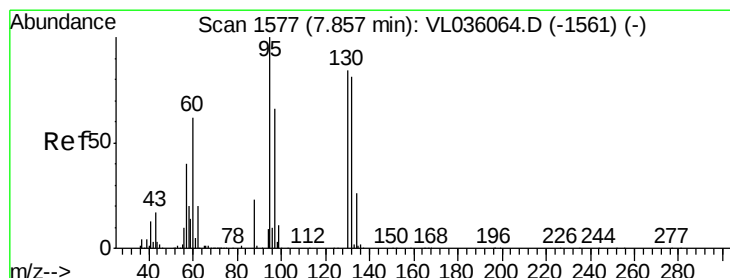
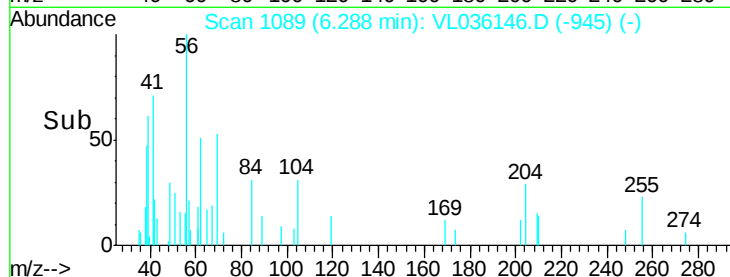
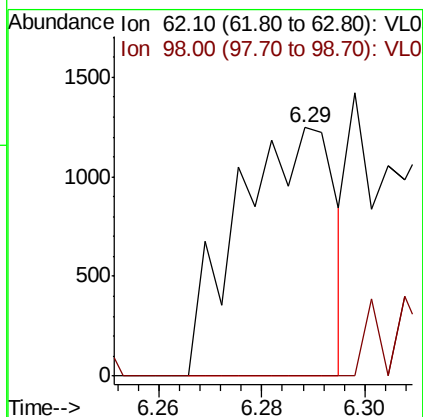
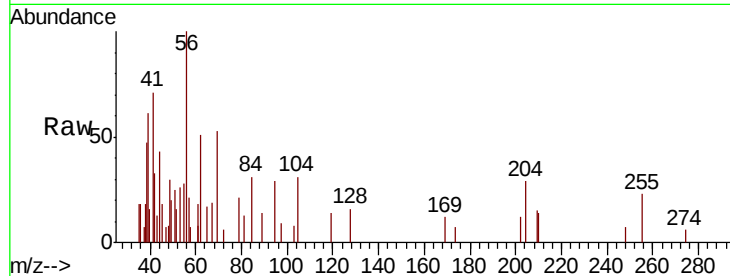
Tgt Ion: 78 Resp: 2177890
Ion Ratio Lower Upper
78 100
77 21.9 19.4 29.2
50 23.3 17.8 26.8





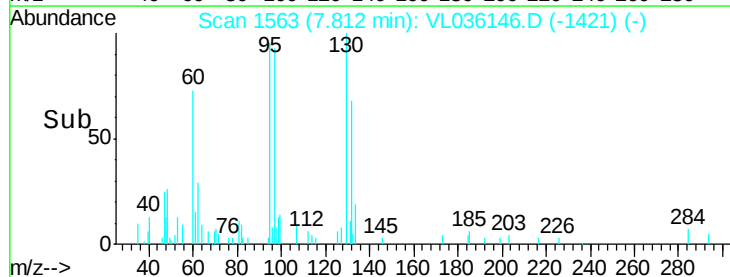
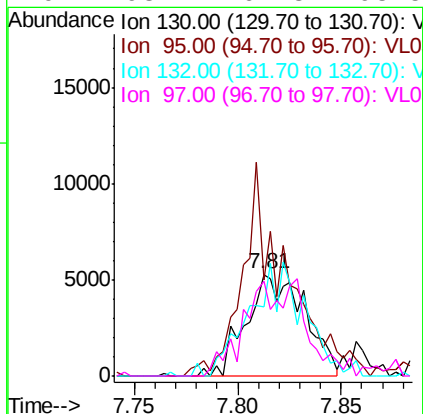
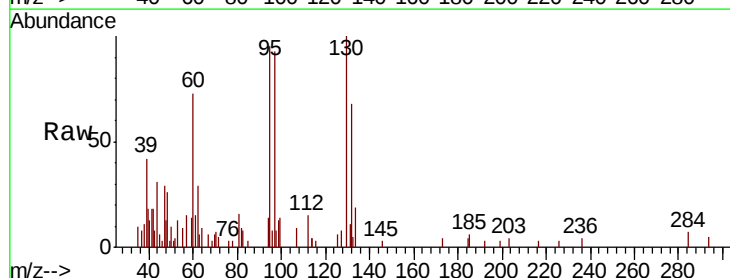
#37
 1,2-Dichloroethane
 Concen: 0.013 ppbv
 RT: 6.29 min Scan# 1089
 Delta R.T. -0.04 min
 Lab File: VL036146.D
 Acq: 11 Dec 2020 2:47

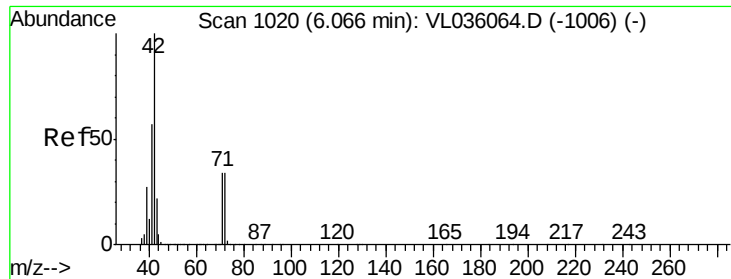
Tot Ion: 62 Resp: 1617
 Ion Ratio Lower Upper
 62 100
 98 0.0 4.6 7.0#



#38
 Trichloroethene
 Concen: 0.133 ppbv m
 RT: 7.81 min Scan# 1563
 Delta R.T. -0.04 min
 Lab File: VL036146.D
 Acq: 11 Dec 2020 2:47

Tgt Ion: 130 Resp: 10406
 Ion Ratio Lower Upper
 130 100
 95 94.7 95.2 142.8#
 132 68.2 76.9 115.3#
 97 93.4 62.3 93.5





#41

Tetrahydrofuran

Concen: 0.135 ppbv m

RT: 6.04 min Scan# 1011

Delta R.T. -0.03 min

Lab File: VL036146.D

Acq: 11 Dec 2020 2:47

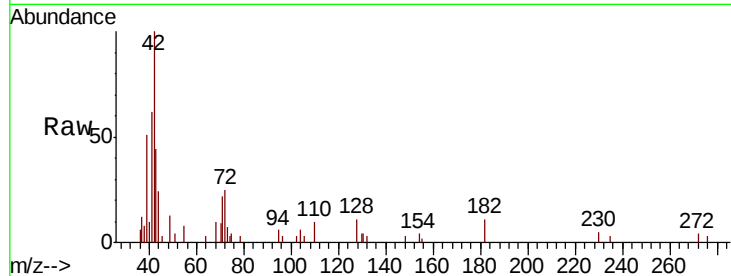
Tot Ion: 42 Resp: 13160

Ion Ratio Lower Upper

42 100

72 0.0 28.3 42.5#

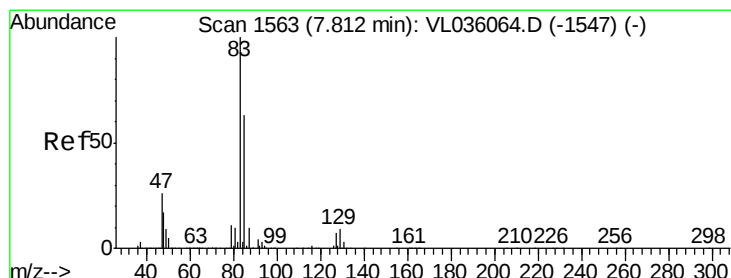
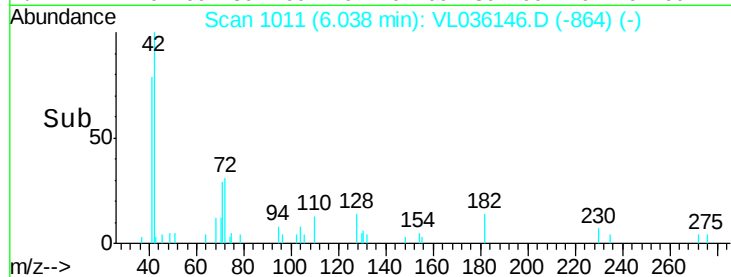
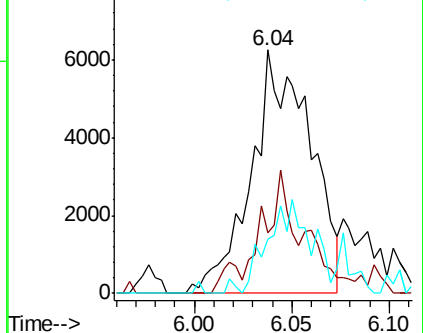
71 0.0 27.3 40.9#



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 0.015 ppbv

RT: 7.76 min Scan# 1548

Delta R.T. -0.05 min

Lab File: VL036146.D

Acq: 11 Dec 2020 2:47

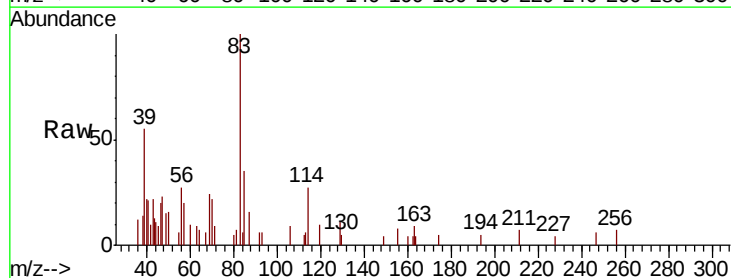
Tgt Ion: 83 Resp: 2487

Ion Ratio Lower Upper

83 100

85 29.5 50.2 75.2#

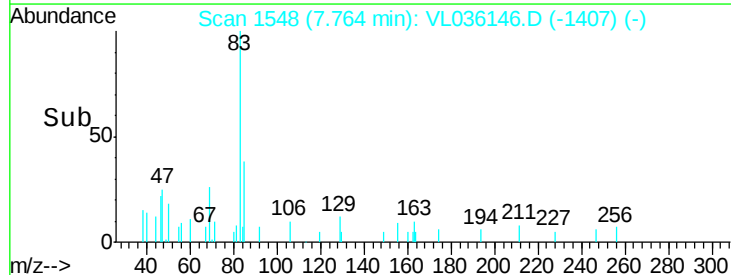
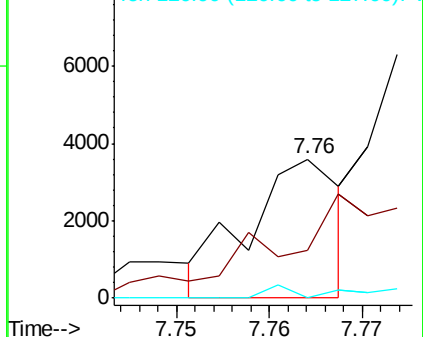
127 0.0 5.5 8.3#

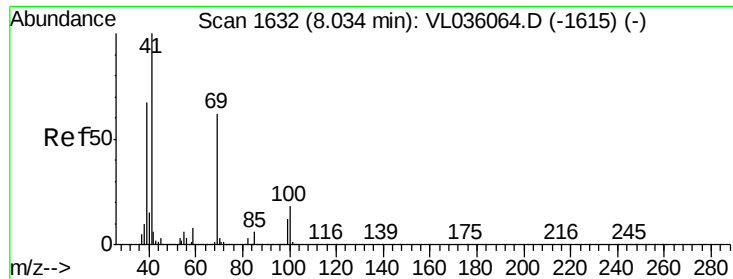


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 0.214 ppbv m

RT: 8.00 min Scan# 1621

Delta R.T. -0.04 min

Lab File: VL036146.D

Acq: 11 Dec 2020 2:47

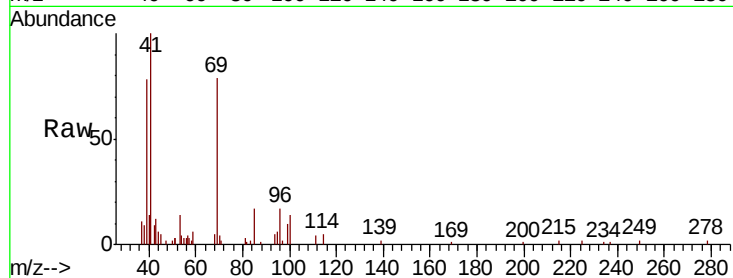
Tot Ion: 69 Resp: 19205

Ion Ratio Lower Upper

69 100

41 199.2 133.0 199.6

100 0.0 25.4 38.0#

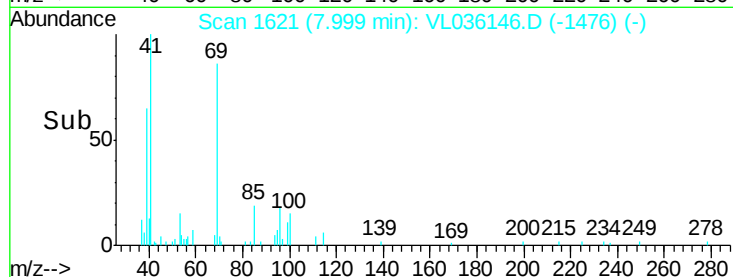


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0

Time-->



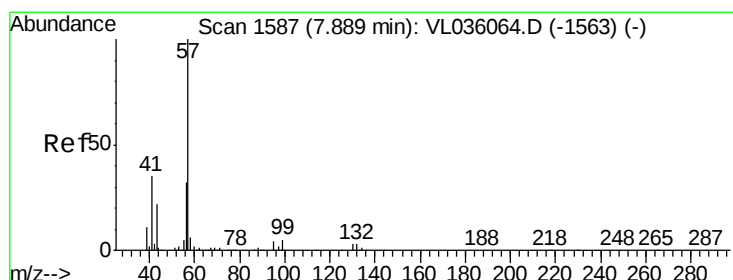
Abundance

Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0

Time-->



#44

2,2,4-Trimethylpentane

Concen: 0.011 ppbv

RT: 7.84 min Scan# 1571

Delta R.T. -0.05 min

Lab File: VL036146.D

Acq: 11 Dec 2020 2:47

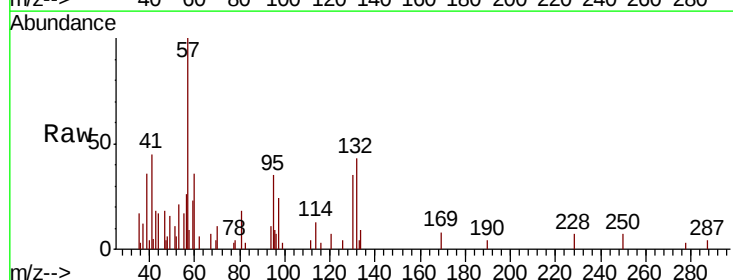
Tgt Ion: 57 Resp: 4048

Ion Ratio Lower Upper

57 100

41 0.0 28.9 43.3#

56 215.5 25.3 37.9#

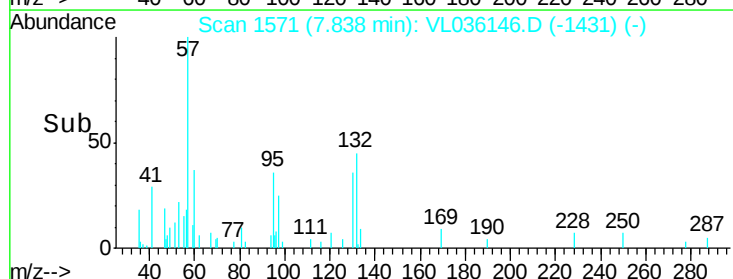


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

Time-->



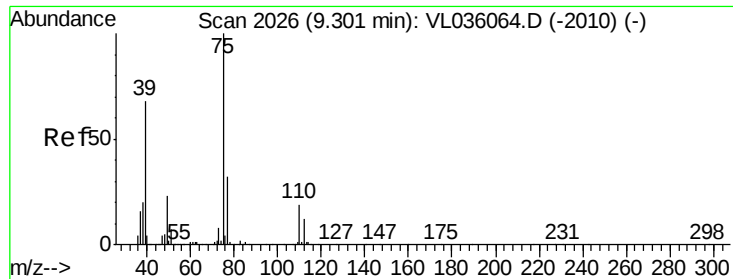
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

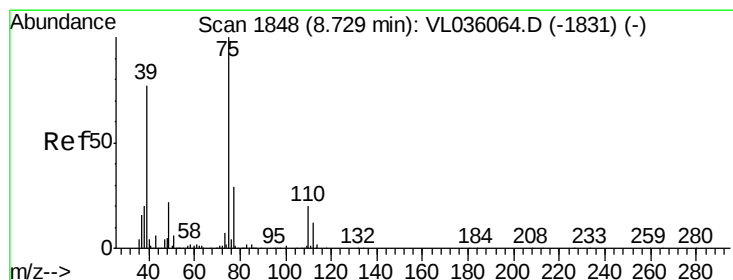
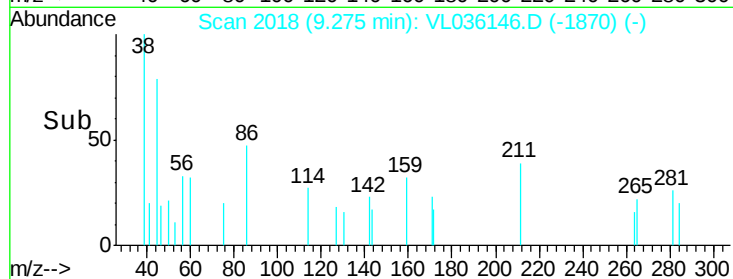
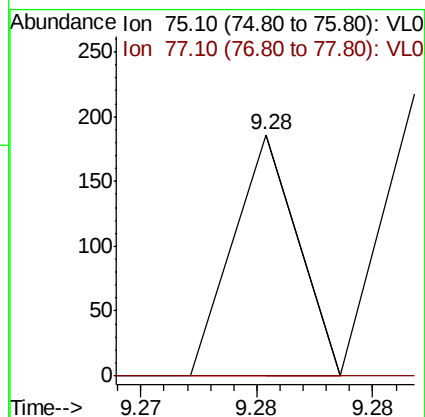
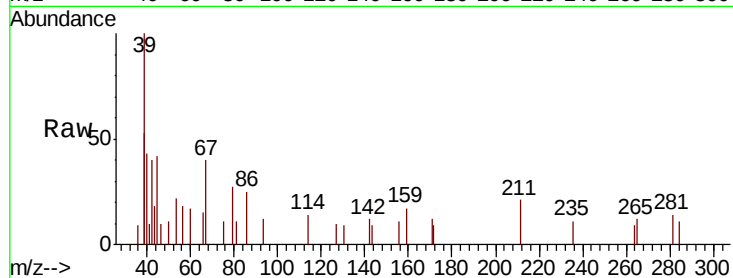
Ion 56.10 (55.80 to 56.80): VL0

Time-->



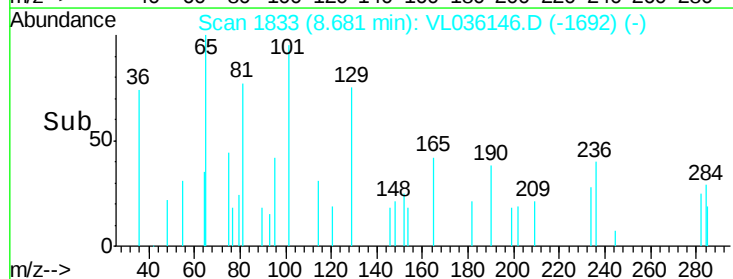
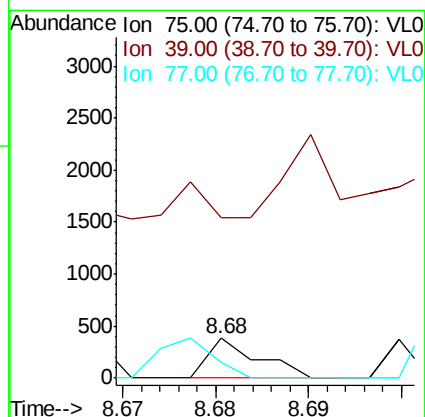
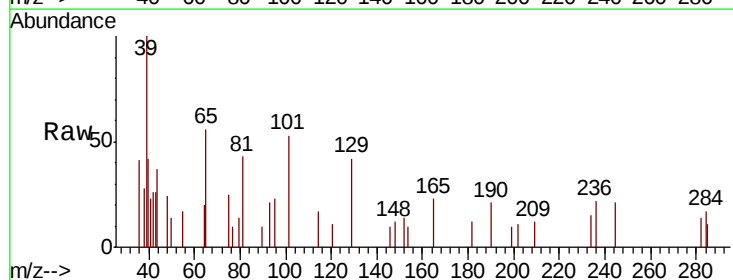
#45
t-1,3-Dichloropropene
Concen: 0.000 ppbv
RT: 9.28 min Scan# 2018
Delta R.T. -0.03 min
Lab File: VL036146.D
Acq: 11 Dec 2020 2:47

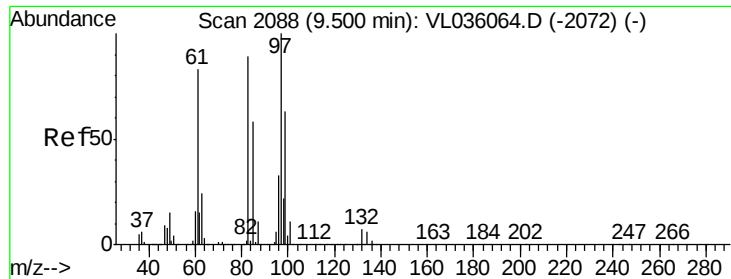
Tot Ion: 75 Resp: 36
Ion Ratio Lower Upper
75 100
77 0.0 26.0 39.0#



#46
cis-1,3-Dichloropropene
Concen: 0.001 ppbv
RT: 8.68 min Scan# 1833
Delta R.T. -0.05 min
Lab File: VL036146.D
Acq: 11 Dec 2020 2:47

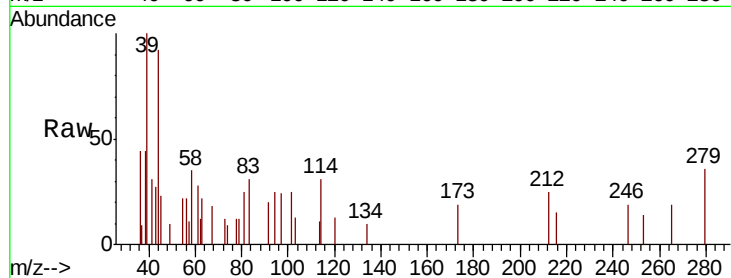
Tgt Ion: 75 Resp: 142
Ion Ratio Lower Upper
75 100
39 0.0 61.6 92.4#
77 40.2 23.0 34.6#



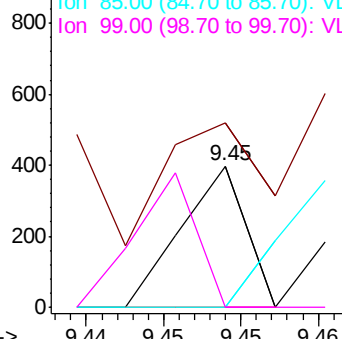


#47
 1,1,2-Trichloroethane
 Concen: 0.001 ppbv
 RT: 9.45 min Scan# 2072
 Delta R.T. -0.05 min
 Lab File: VL036146.D
 Acq: 11 Dec 2020 2:47

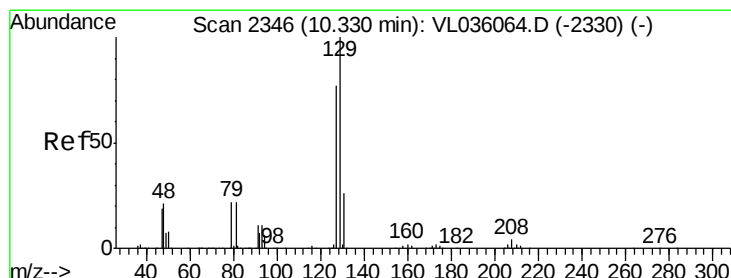
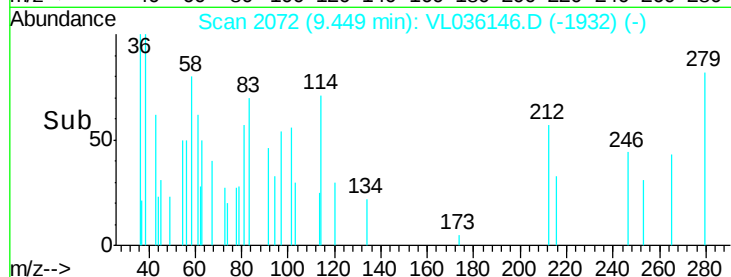
Tot Ion:	97	Resp:	116
Ion	Ratio	Lower	Upper
97	100		
83	86.9	71.4	107.2
85	0.0	46.6	70.0#
99	0.0	50.7	76.1#



Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

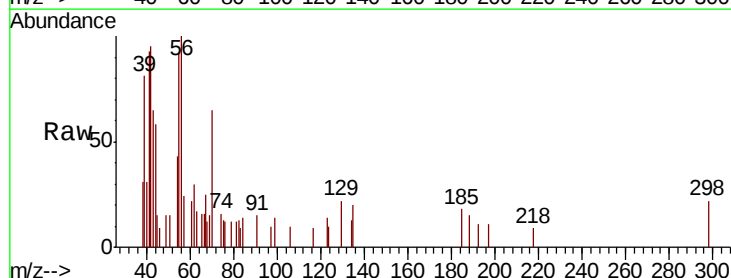


Time-->

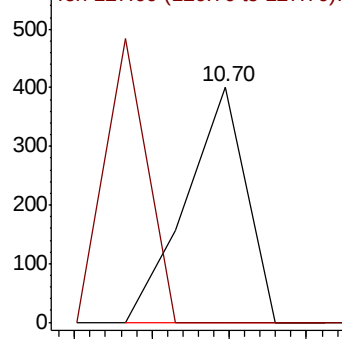


#48
 Dibromochloromethane
 Concen: 0.001 ppbv
 RT: 10.70 min Scan# 2461
 Delta R.T. 0.37 min
 Lab File: VL036146.D
 Acq: 11 Dec 2020 2:47

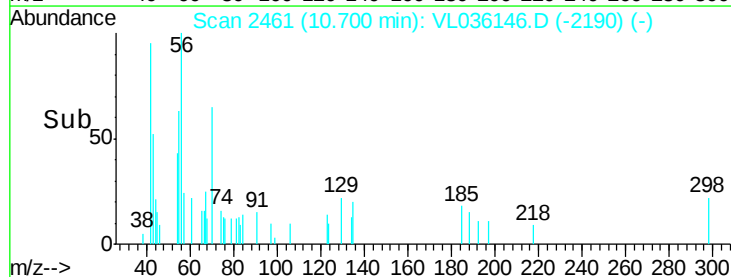
Tgt Ion:	129	Resp:	108
Ion	Ratio	Lower	Upper
129	100		
127	50.9	39.0	117.0

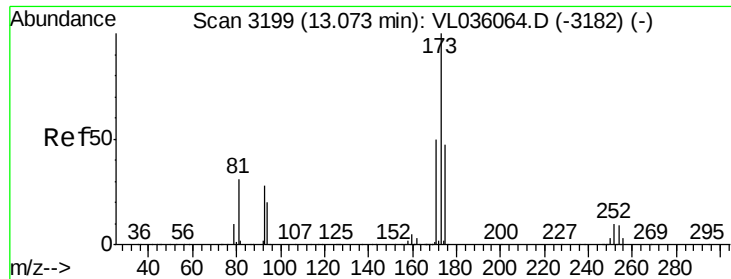


Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V



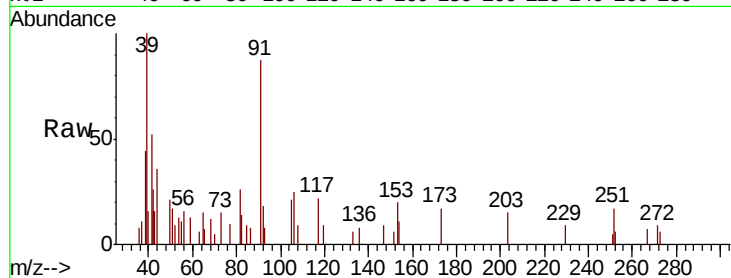
Time-->



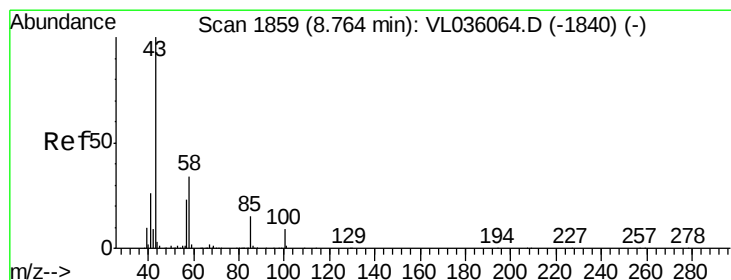
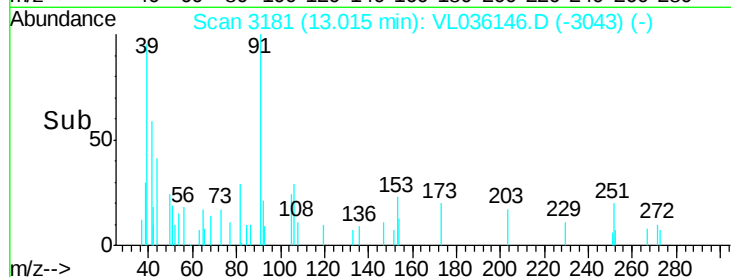
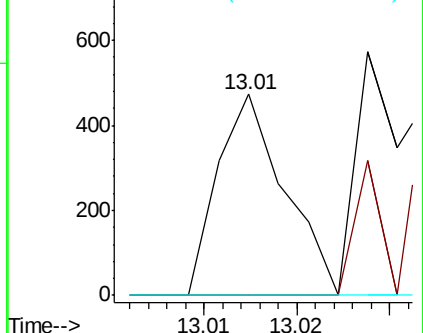


#49
Bromoform
Concen: 0.003 ppbv
RT: 13.01 min Scan# 3181
Delta R.T. -0.06 min
Lab File: VL036146.D
Acq: 11 Dec 2020 2:47

Tot Ion	Ratio	Lower	Upper
173	100		
175	57.8	39.8	59.6
171	47.3	42.5	63.7

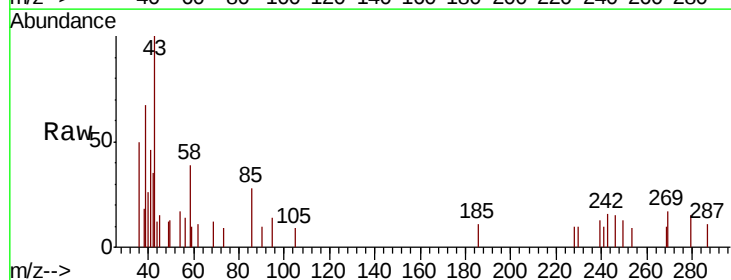


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

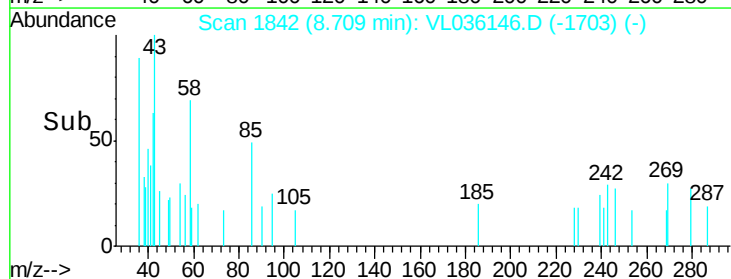
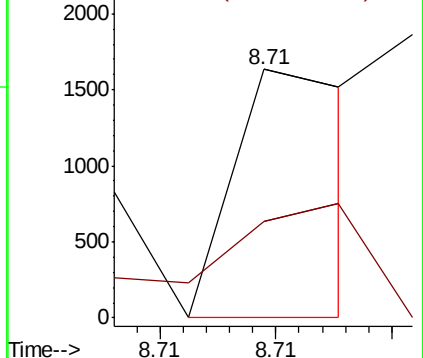


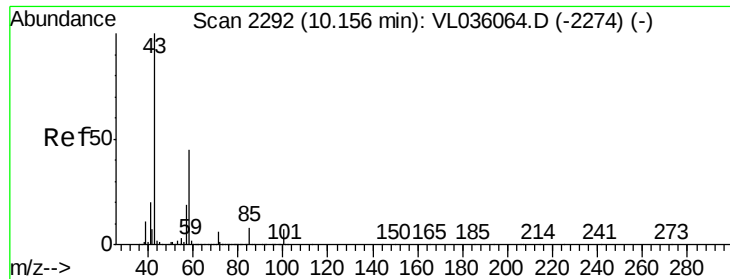
#50
4-Methyl-2-Pentanone
Concen: 0.002 ppbv
RT: 8.71 min Scan# 1842
Delta R.T. -0.05 min
Lab File: VL036146.D
Acq: 11 Dec 2020 2:47

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	27.4	41.2#



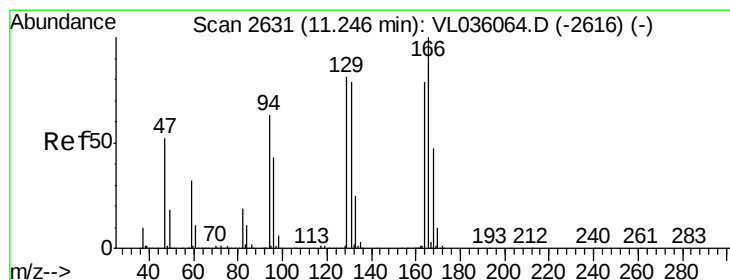
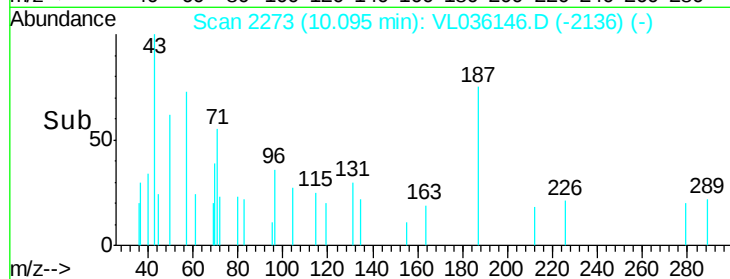
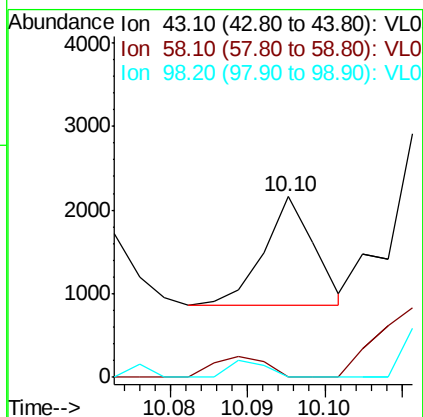
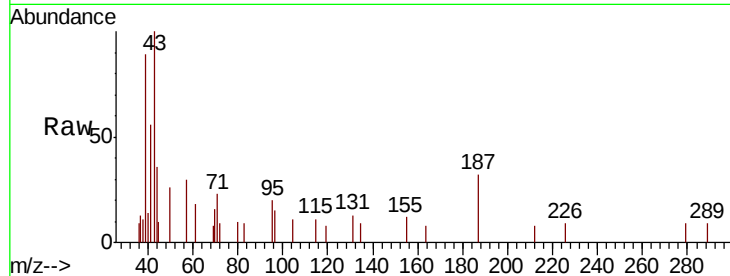
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





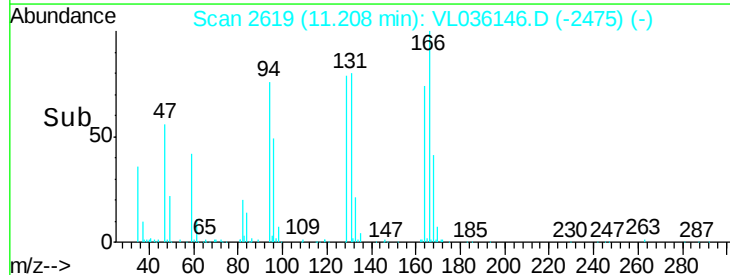
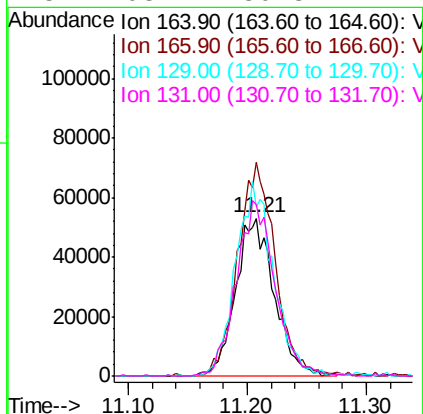
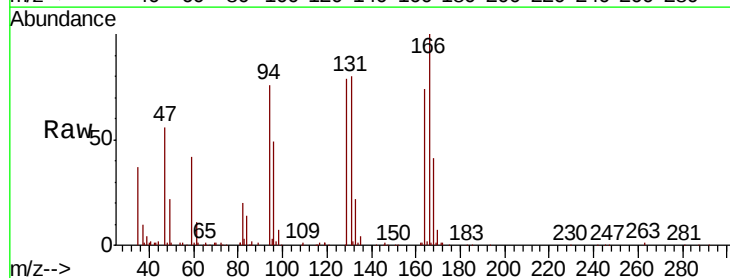
#51
2-Hexanone
Concen: 0.003 ppbv
RT: 10.10 min Scan# 2273
Delta R.T. -0.06 min
Lab File: VL036146.D
Acq: 11 Dec 2020 2:47

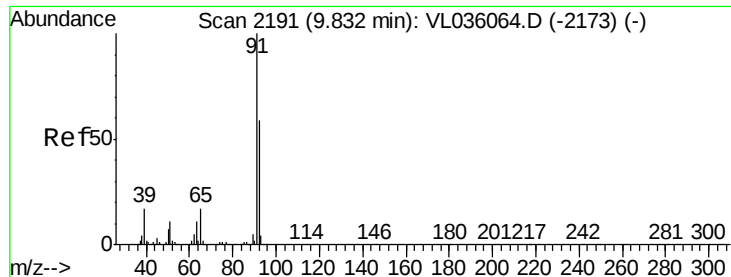
Tot Ion: 43 Resp: 595
Ion Ratio Lower Upper
43 100
58 0.0 38.7 58.1#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 1.570 ppbv m
RT: 11.21 min Scan# 2619
Delta R.T. -0.04 min
Lab File: VL036146.D
Acq: 11 Dec 2020 2:47

Tgt Ion: 164 Resp: 118799
Ion Ratio Lower Upper
164 100
166 135.5 101.9 152.9
129 107.1 82.1 123.1
131 108.7 80.8 121.2





#53

Toluene

Concen: 0.605 ppbv

RT: 9.79 min Scan# 2178

Delta R.T. -0.04 min

Lab File: VL036146.D

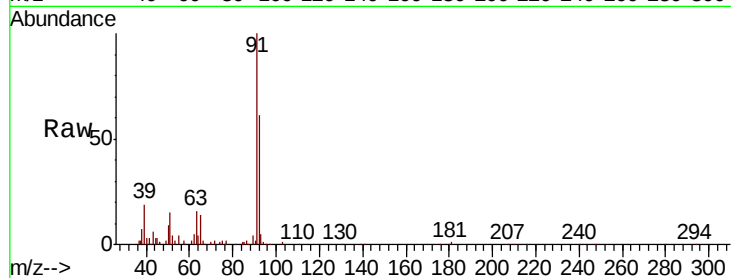
Acq: 11 Dec 2020 2:47

Tot Ion: 91 Resp: 142011

Ion Ratio Lower Upper

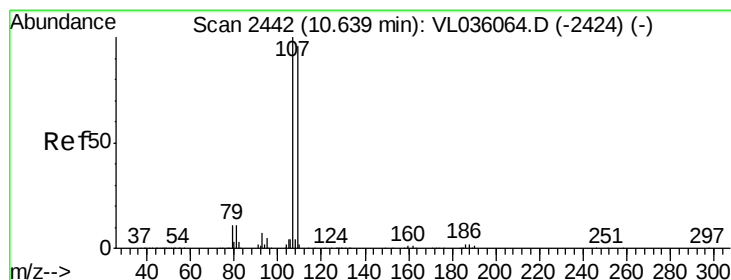
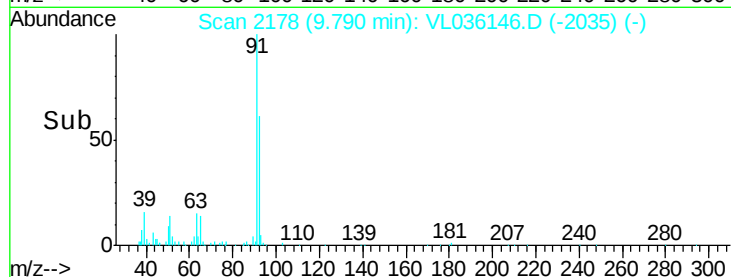
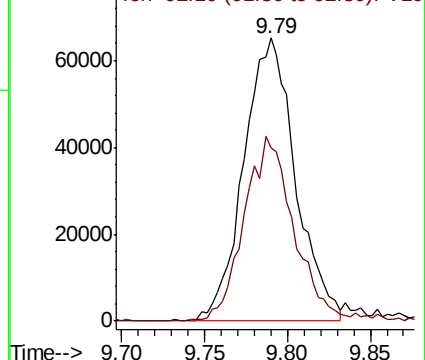
91 100

92 63.8 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 0.001 ppbv

RT: 10.57 min Scan# 2421

Delta R.T. -0.07 min

Lab File: VL036146.D

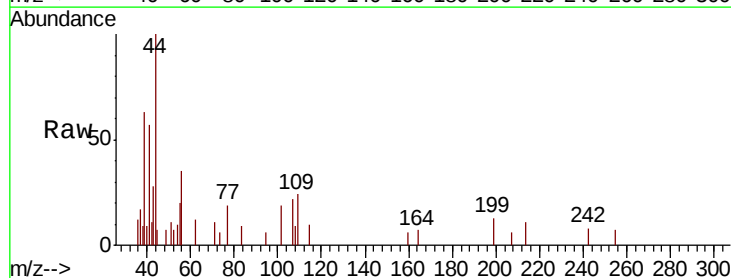
Acq: 11 Dec 2020 2:47

Tgt Ion: 107 Resp: 143

Ion Ratio Lower Upper

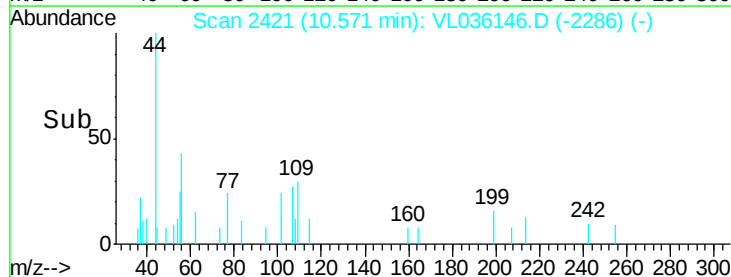
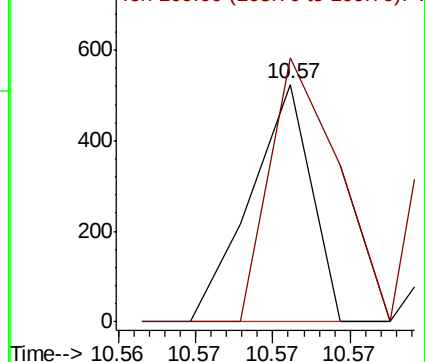
107 100

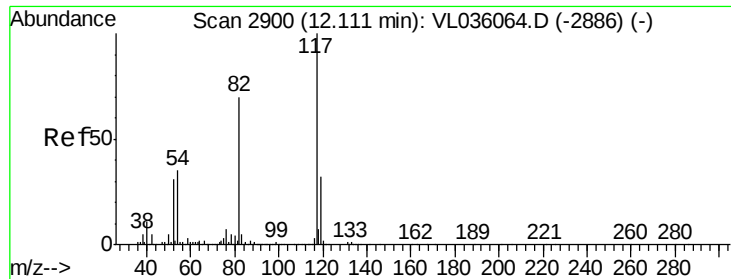
109 111.0 76.6 115.0



Abundance Ion 107.00 (106.70 to 107.70): V

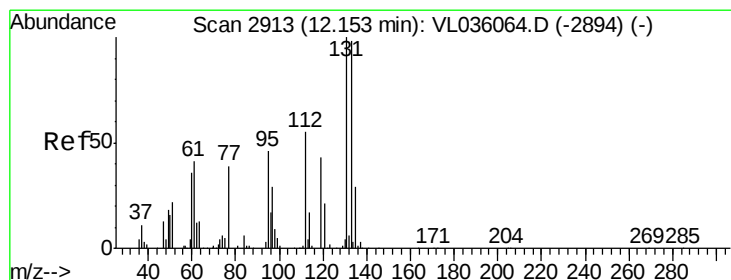
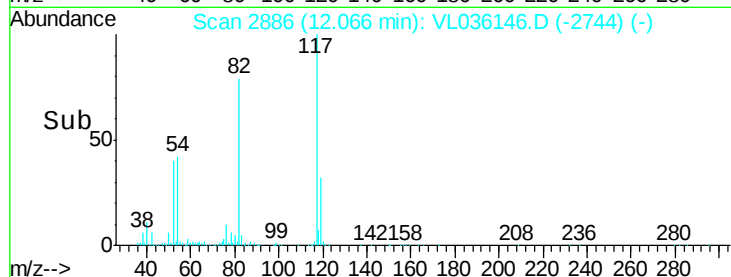
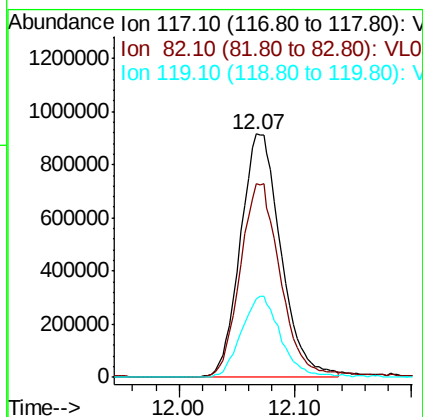
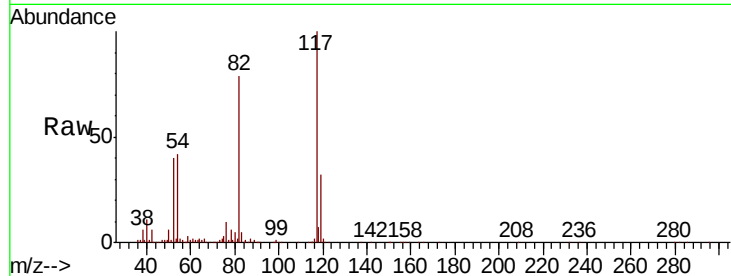
Ion 109.00 (108.70 to 109.70): V





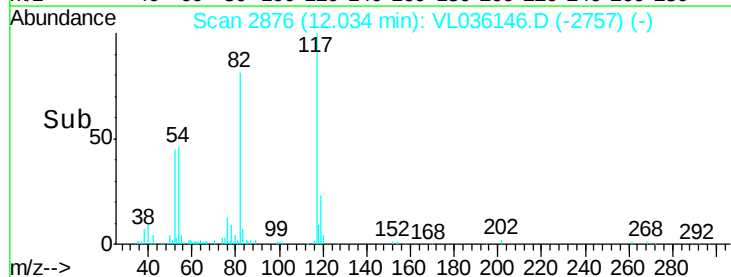
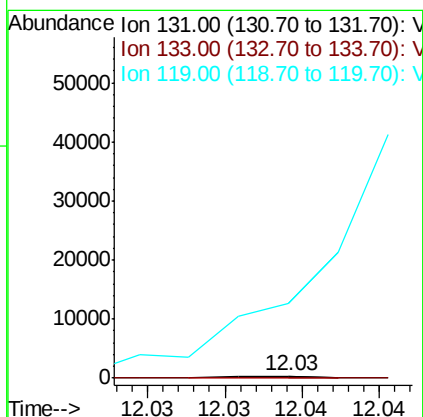
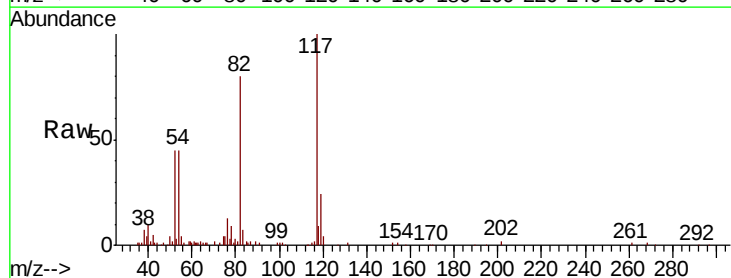
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. -0.04 min
Lab File: VL036146.D
Acq: 11 Dec 2020 2:47

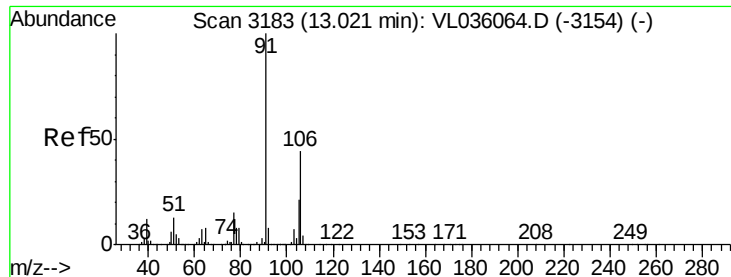
Tot Ion:117 Resp: 2231264
Ion Ratio Lower Upper
117 100
82 80.8 0.0 0.0#
119 32.5 0.0 0.0#



#56
1,1,1,2-Tetrachloroethane
Concen: 0.001 ppbv
RT: 12.03 min Scan# 2876
Delta R.T. -0.12 min
Lab File: VL036146.D
Acq: 11 Dec 2020 2:47

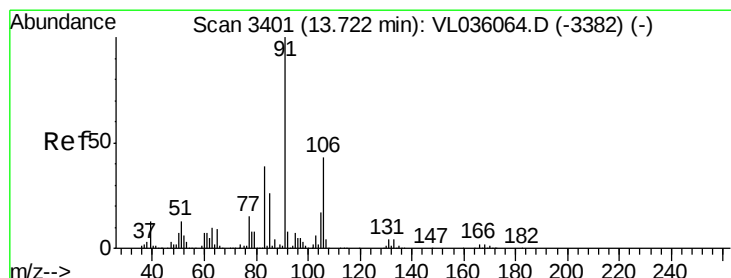
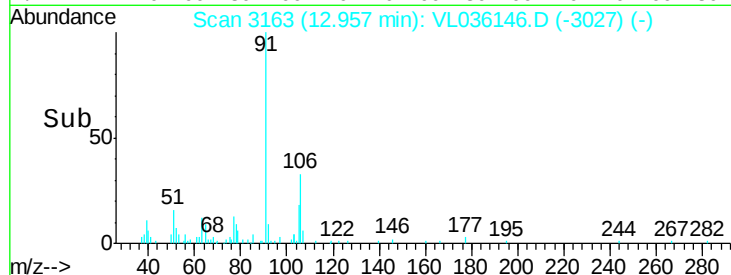
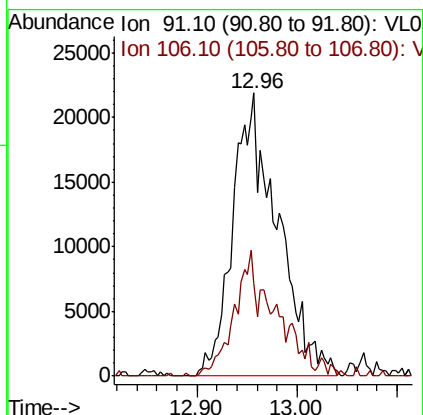
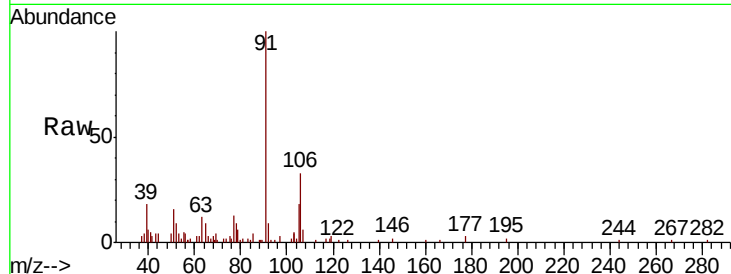
Tgt Ion:131 Resp: 95
Ion Ratio Lower Upper
131 100
133 0.0 77.7 116.5#
119 774588.4 51.6 77.4#





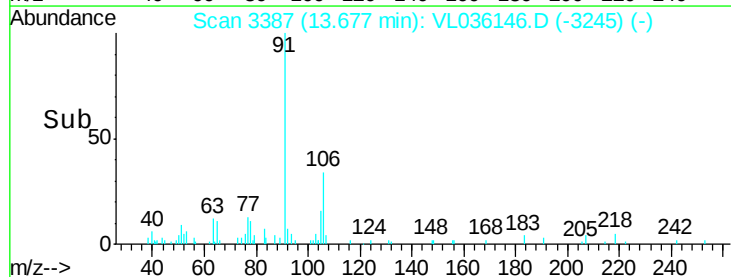
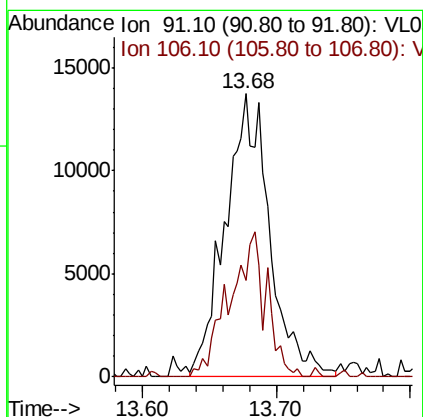
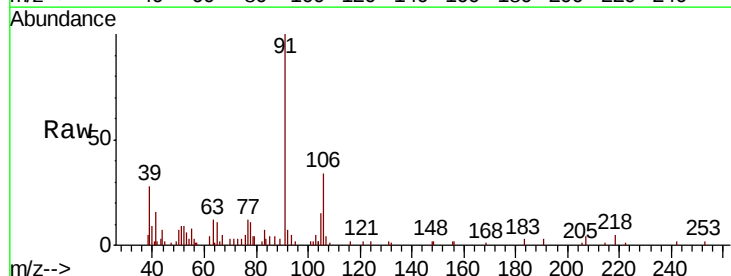
#59
m/p-Xylene
Concen: 0.262 ppbv m
RT: 12.96 min Scan# 3163
Delta R.T. -0.06 min
Lab File: VL036146.D
Acq: 11 Dec 2020 2:47

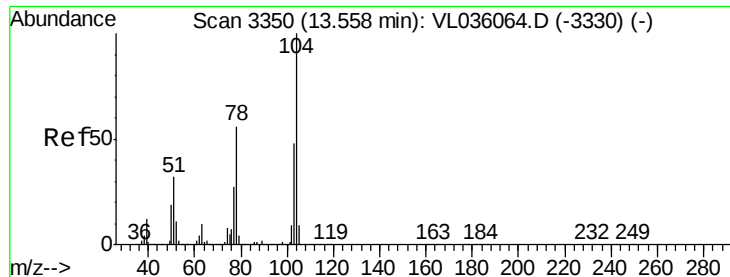
Tot Ion: 91 Resp: 67566
Ion Ratio Lower Upper
91 100
106 0.0 33.6 50.4#



#60
o-Xylene
Concen: 0.130 ppbv m
RT: 13.68 min Scan# 3387
Delta R.T. -0.04 min
Lab File: VL036146.D
Acq: 11 Dec 2020 2:47

Tgt Ion: 91 Resp: 31487
Ion Ratio Lower Upper
91 100
106 0.0 21.6 64.6#





#61

Stvrene

Concen: 0.019 ppbv

RT: 13.52 min Scan# 3337

Delta R.T. -0.04 min

Lab File: VL036146.D

Acq: 11 Dec 2020 2:47

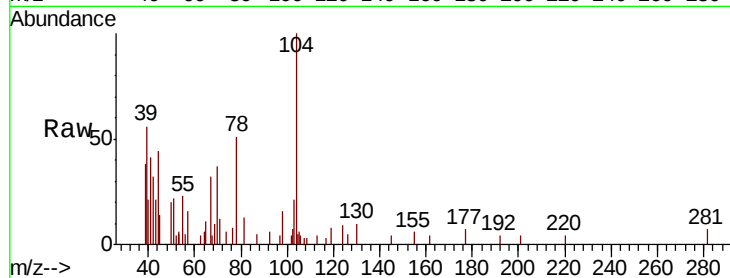
Tot Ion:104 Resp: 2955

Ion Ratio Lower Upper

104 100

78 212.0 45.8 68.8#

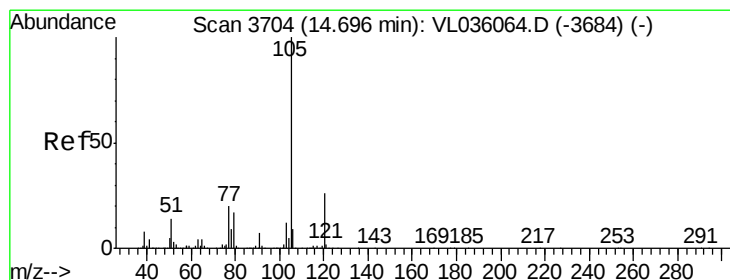
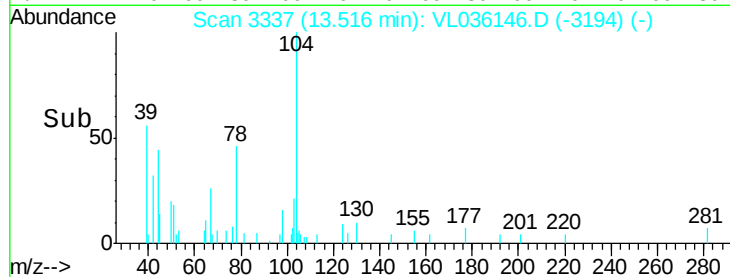
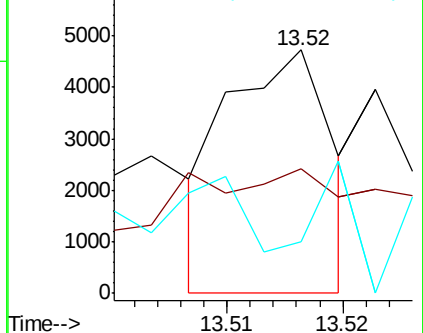
103 0.0 38.6 57.8#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 4.458 ppbv m

RT: 14.65 min Scan# 3691

Delta R.T. -0.04 min

Lab File: VL036146.D

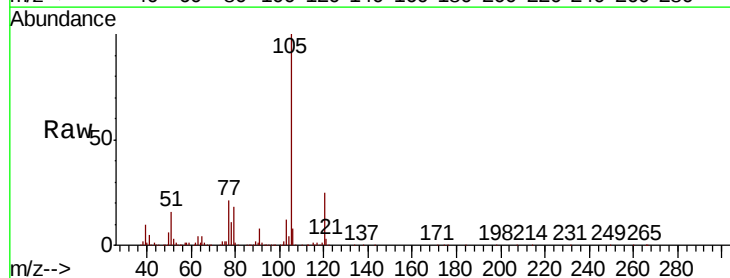
Acq: 11 Dec 2020 2:47

Tgt Ion:105 Resp: 1603563

Ion Ratio Lower Upper

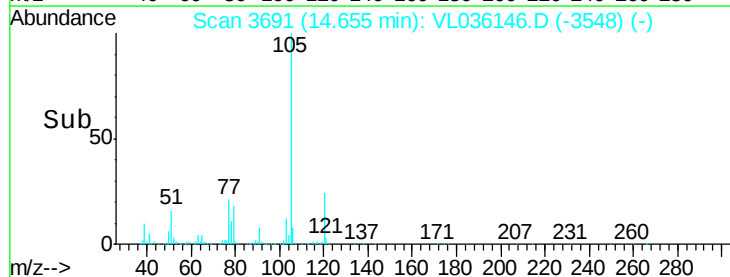
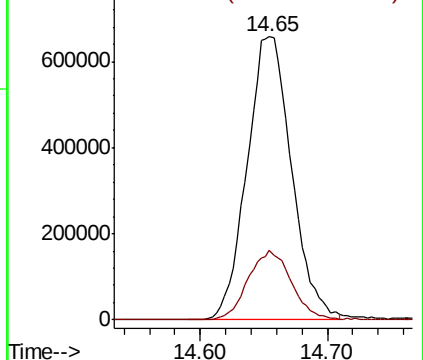
105 100

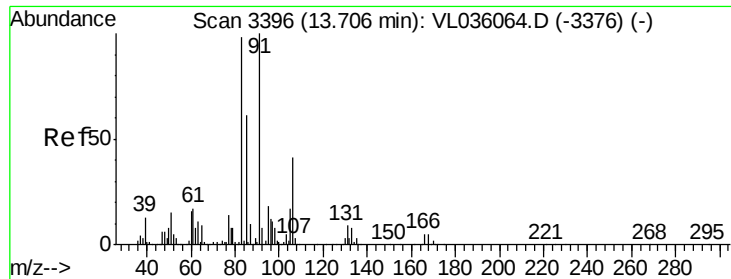
120 24.1 20.1 30.1



Abundance Ion 105.10 (104.80 to 105.80): V

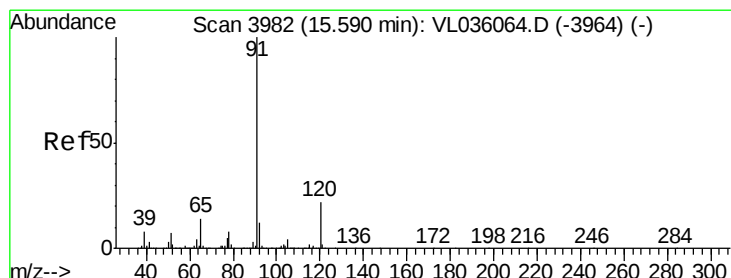
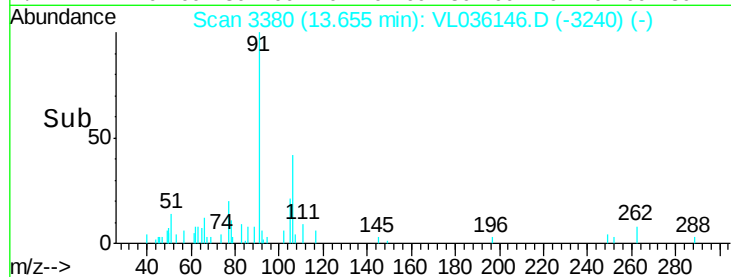
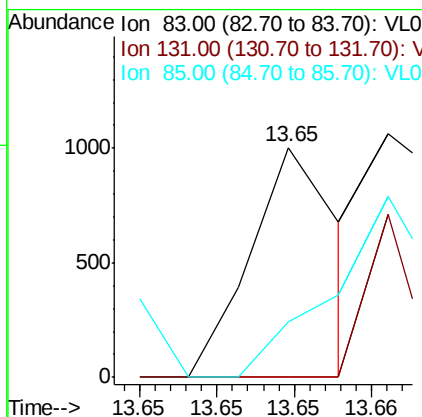
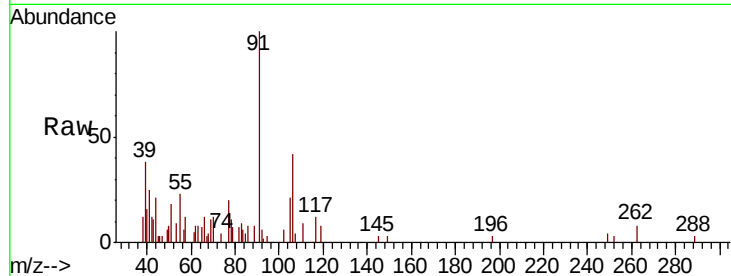
Ion 120.20 (119.90 to 120.90): V





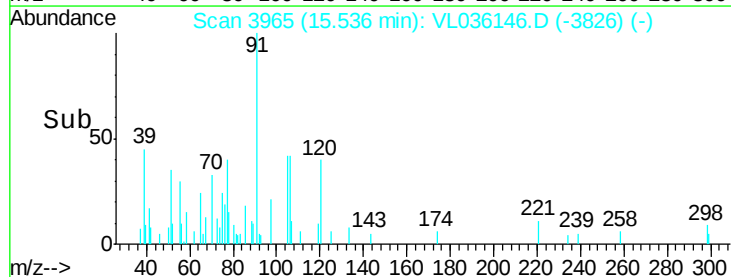
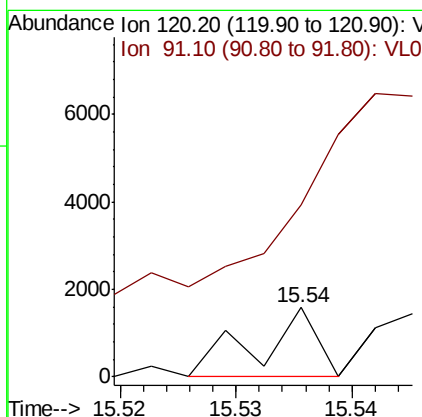
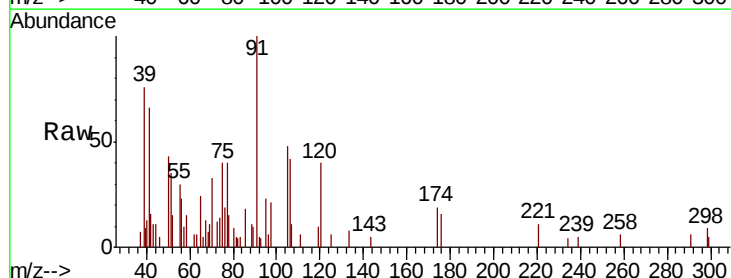
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.002 ppbv
 RT: 13.65 min Scan# 3380
 Delta R.T. -0.05 min
 Lab File: VL036146.D
 Acq: 11 Dec 2020 2:47

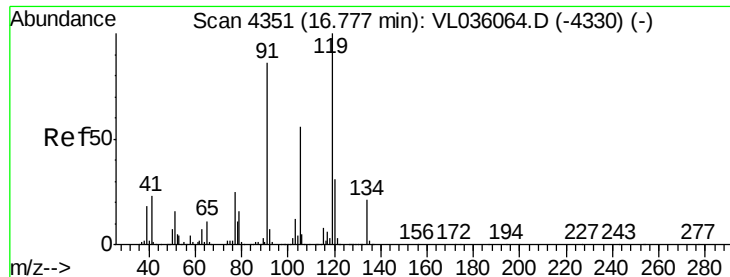
Tot Ion	83	Resp	400
Ion Ratio	100	Lower	Upper
131	0.0	4.6	13.8#
85	0.0	32.5	97.5#



#64
 n-propylbenzene
 Concen: 0.006 ppbv
 RT: 15.54 min Scan# 3965
 Delta R.T. -0.05 min
 Lab File: VL036146.D
 Acq: 11 Dec 2020 2:47

Tgt Ion	120	Resp	560
Ion Ratio	100	Lower	Upper
91	0.0	388.9	583.3#





#65

tert-Butylbenzene

Concen: 0.002 ppbv

RT: 16.72 min Scan# 4332

Delta R.T. -0.06 min

Lab File: VL036146.D

Acq: 11 Dec 2020 2:47

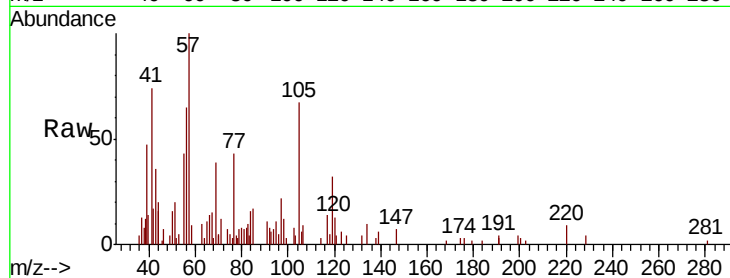
Tot Ion: 119 Resp: 605

Ion Ratio Lower Upper

119 100

91 0.0 70.2 105.2#

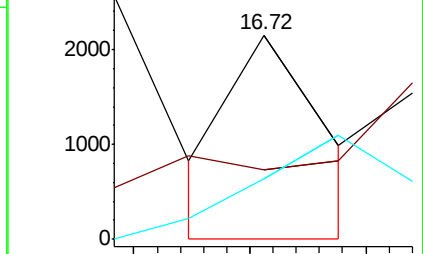
134 107.1 15.8 23.6#



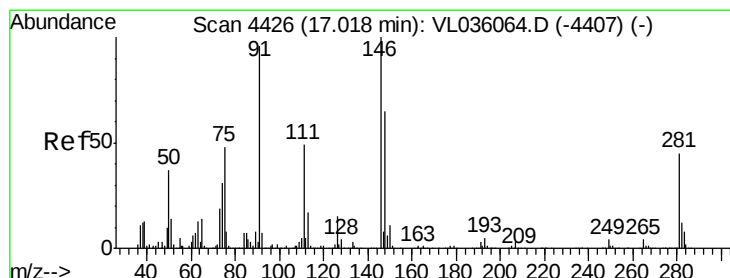
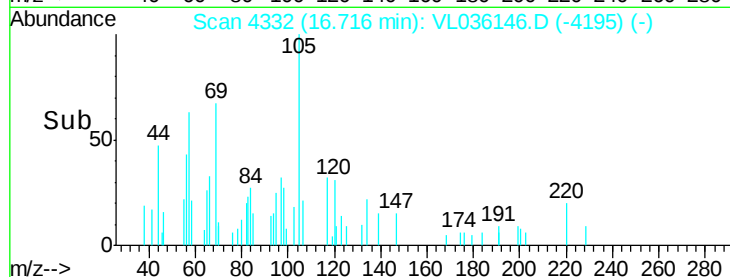
Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



Time-->



#66

Benzyl Chloride

Concen: 0.004 ppbv

RT: 16.95 min Scan# 4406

Delta R.T. -0.06 min

Lab File: VL036146.D

Acq: 11 Dec 2020 2:47

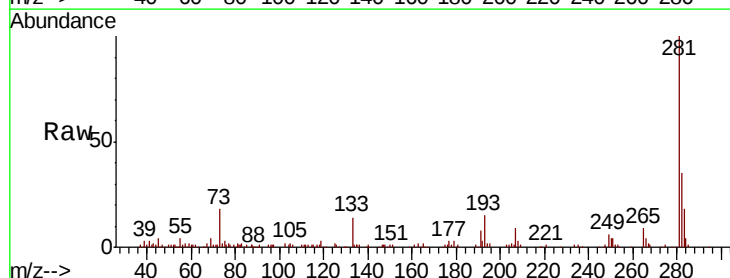
Tgt Ion: 91 Resp: 301

Ion Ratio Lower Upper

91 100

126 630.2 13.5 20.3#

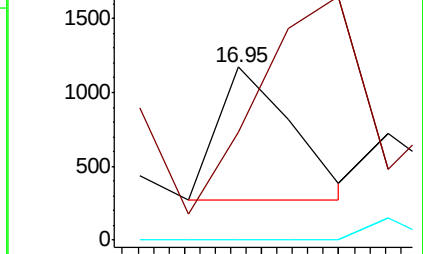
128 0.0 4.4 6.6#



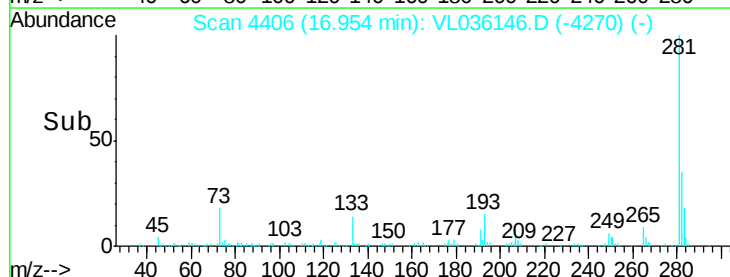
Abundance Ion 91.10 (90.80 to 91.80): VL0

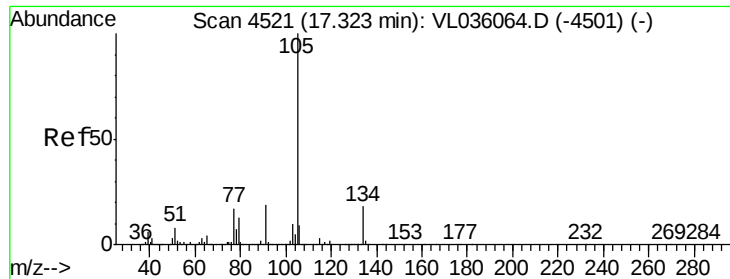
Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V



Time-->





#67

sec-Butylbenzene

Concen: 0.001 ppbv

RT: 17.26 min Scan# 4501

Delta R.T. -0.06 min

Lab File: VL036146.D

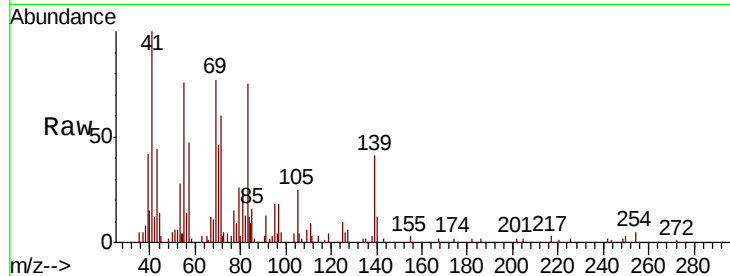
Acq: 11 Dec 2020 2:47

Tot Ion: 105 Resp: 494

Ion Ratio Lower Upper

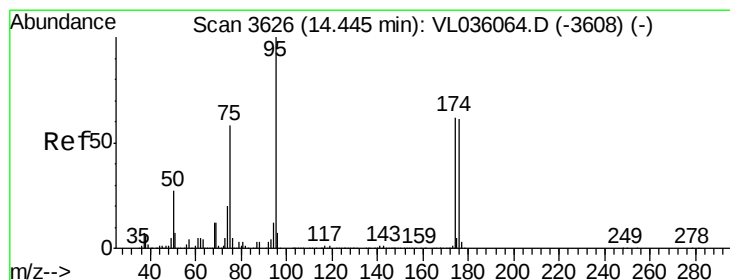
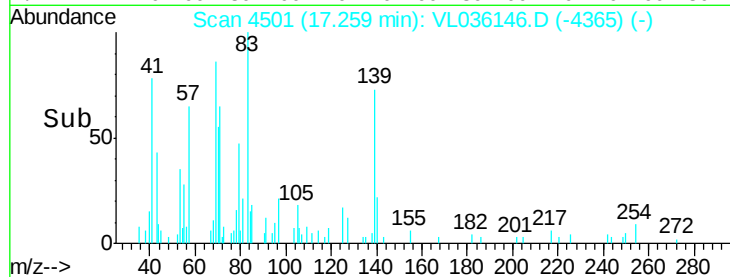
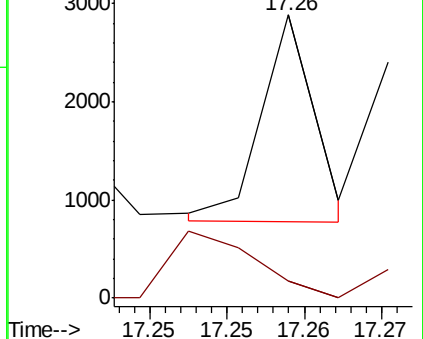
105 100

134 73.7 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: 11.285 ppbv

RT: 14.40 min Scan# 3612

Delta R.T. -0.04 min

Lab File: VL036146.D

Acq: 11 Dec 2020 2:47

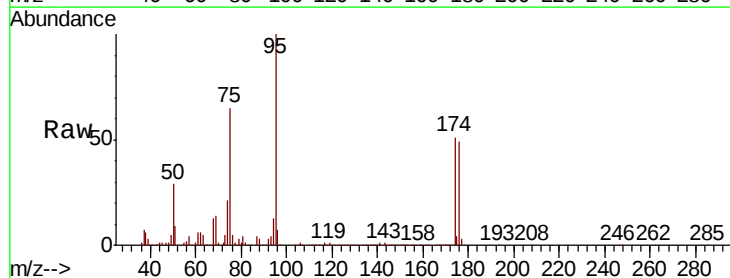
Tgt Ion: 95 Resp: 1999458

Ion Ratio Lower Upper

95 100

174 55.3 50.7 76.1

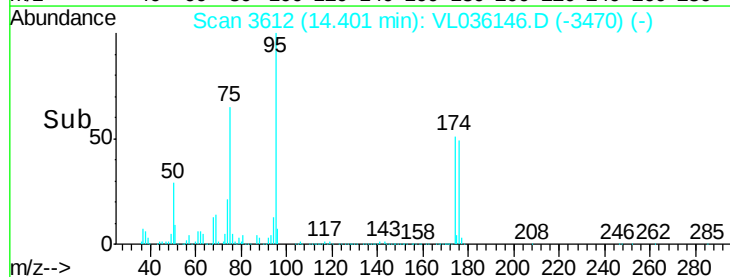
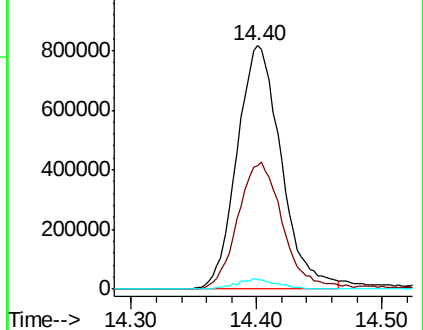
175 4.0 4.0 6.0#

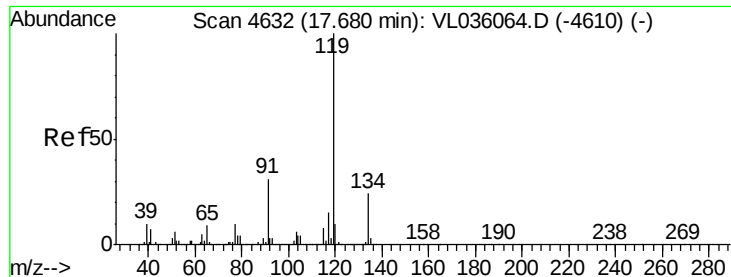


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

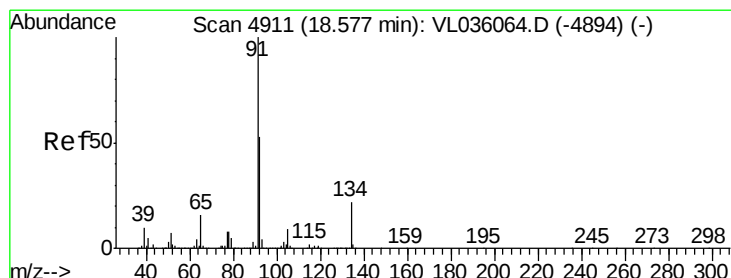
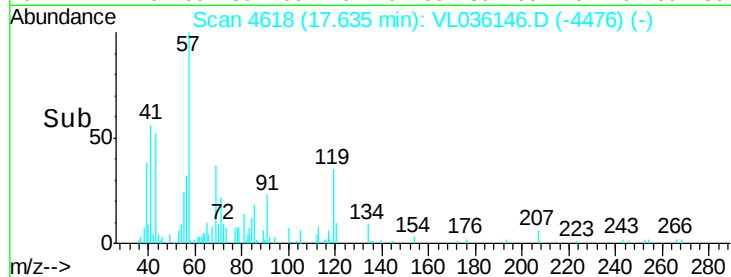
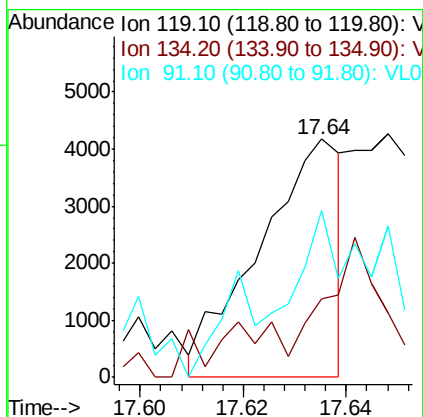
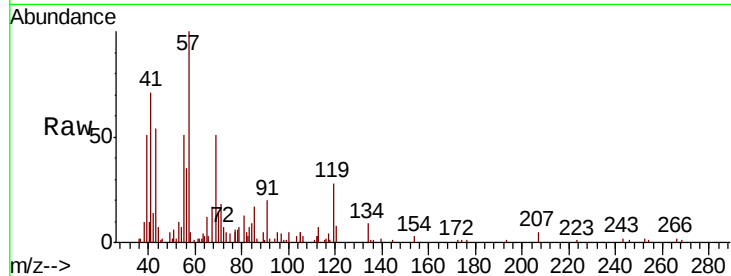
Ion 175.00 (174.70 to 175.70): V





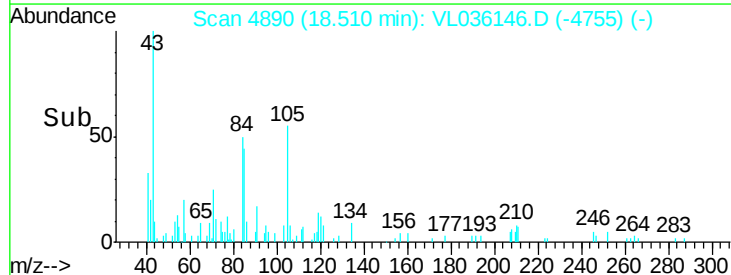
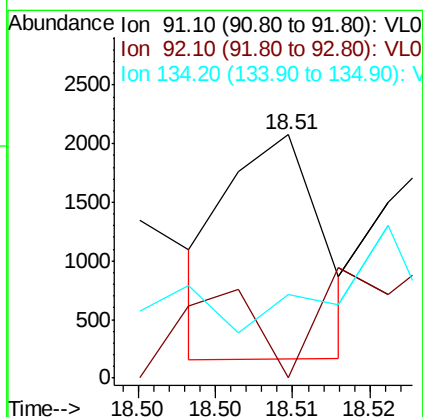
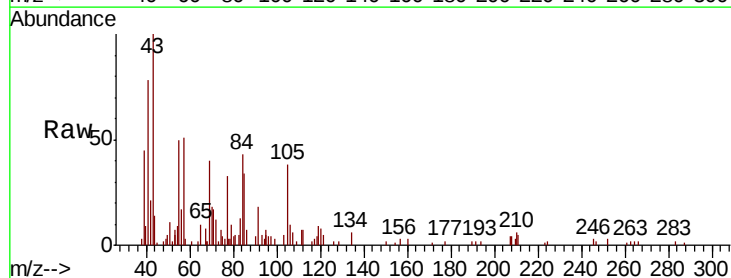
#69
 p-Isopropyltoluene
 Concen: 0.014 ppbv
 RT: 17.64 min Scan# 4618
 Delta R.T. -0.04 min
 Lab File: VL036146.D
 Acq: 11 Dec 2020 2:47

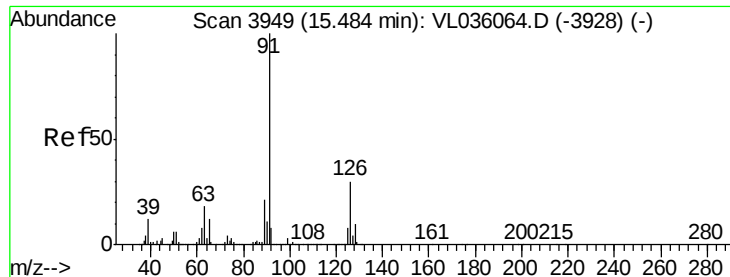
Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	19.8	29.6#
91	140.1	25.8	38.6#



#70
 n-Butylbenzene
 Concen: 0.003 ppbv
 RT: 18.51 min Scan# 4890
 Delta R.T. -0.07 min
 Lab File: VL036146.D
 Acq: 11 Dec 2020 2:47

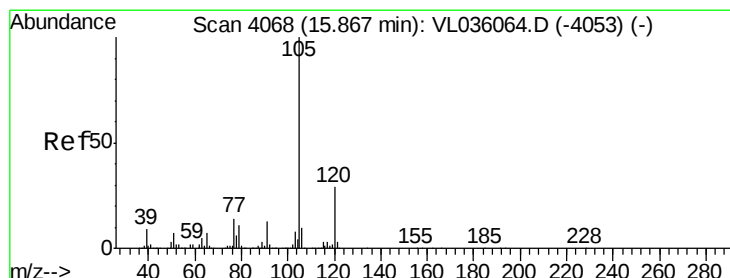
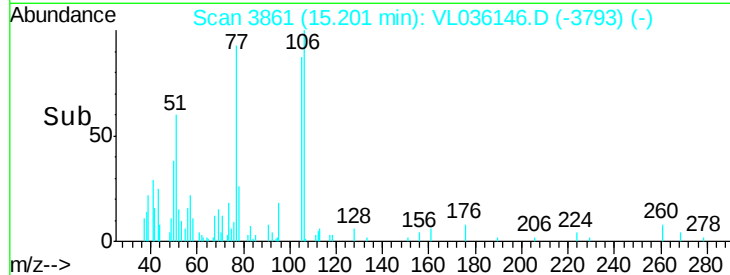
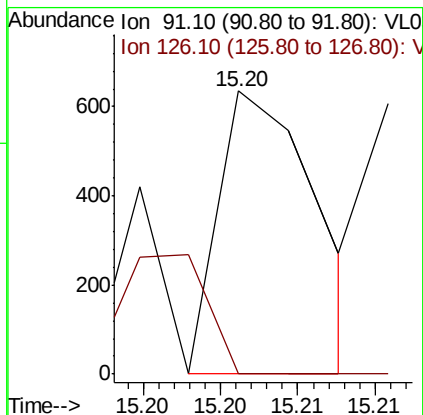
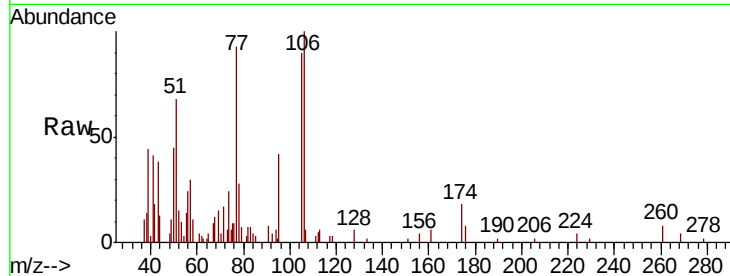
Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	43.3	64.9#
134	0.0	17.1	25.7#





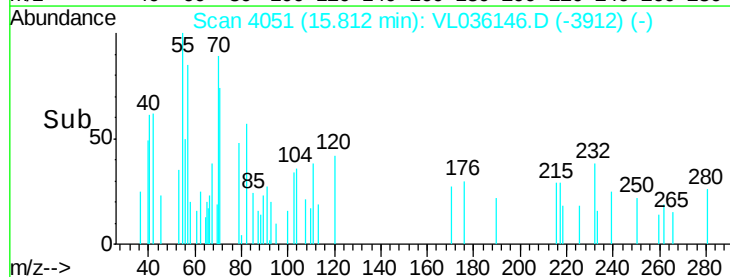
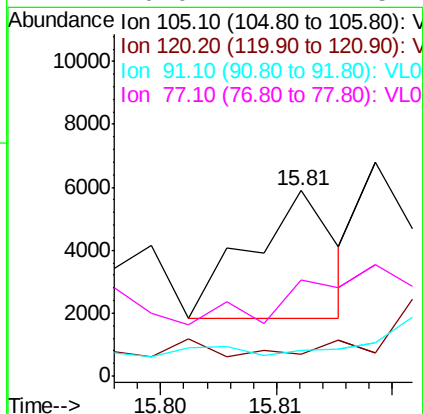
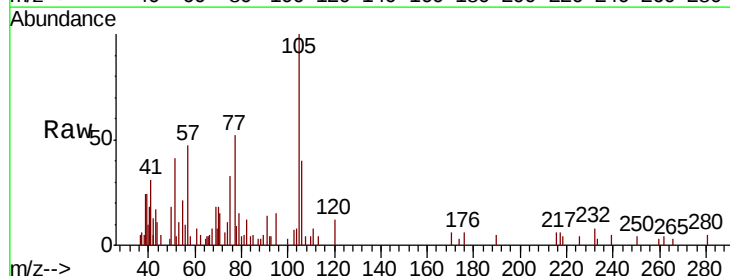
#71
2-Chlorotoluene
Concen: 0.001 ppbv
RT: 15.20 min Scan# 3861
Delta R.T. -0.28 min
Lab File: VL036146.D
Acq: 11 Dec 2020 2:47

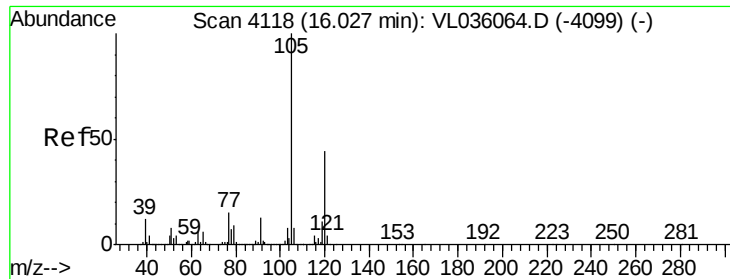
Tot Ion: 91 Resp: 280
Ion Ratio Lower Upper
91 100
126 36.8 11.6 46.4



#72
4-Ethyltoluene
Concen: 0.008 ppbv
RT: 15.81 min Scan# 4051
Delta R.T. -0.05 min
Lab File: VL036146.D
Acq: 11 Dec 2020 2:47

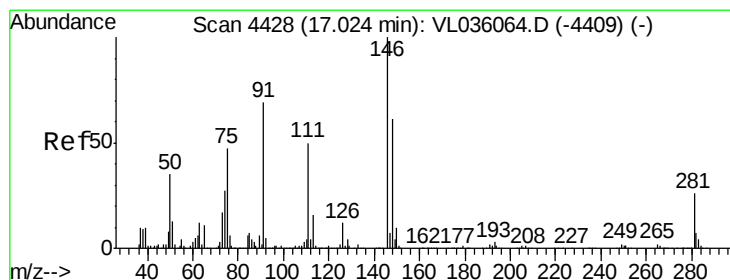
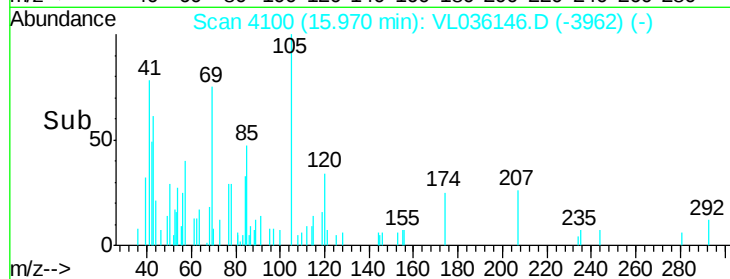
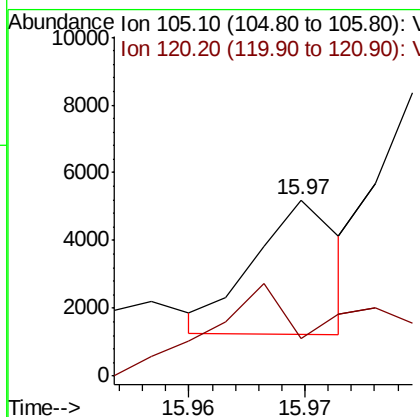
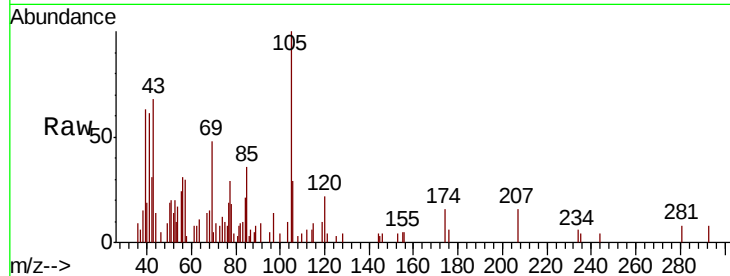
Tgt Ion: 105 Resp: 2070
Ion Ratio Lower Upper
105 100
120 0.0 23.6 35.4#
91 0.0 11.4 17.0#
77 0.0 12.1 18.1#





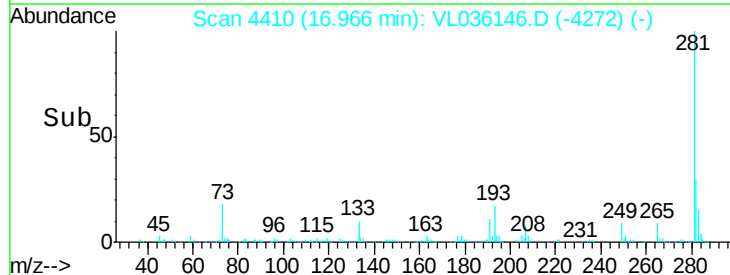
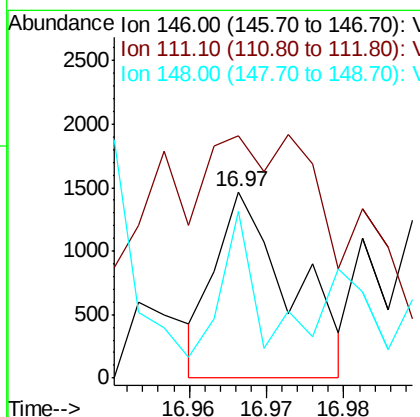
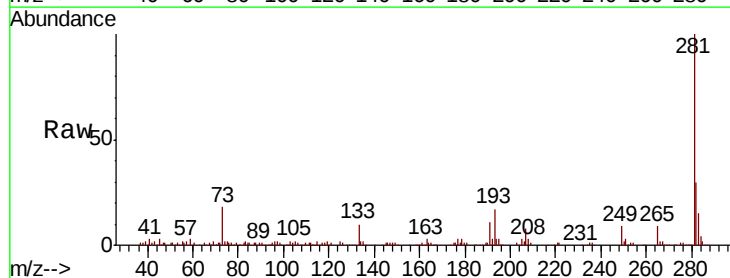
#73
 1,3,5-Trimethylbenzene
 Concen: 0.008 ppbv
 RT: 15.97 min Scan# 4100
 Delta R.T. -0.06 min
 Lab File: VL036146.D
 Acq: 11 Dec 2020 2:47

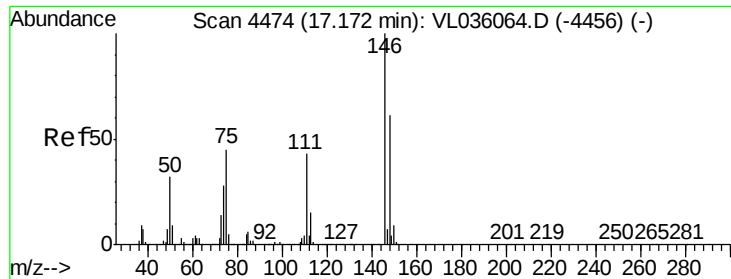
Tot Ion:105 Resp: 2028
 Ion Ratio Lower Upper
 105 100
 120 2.1 35.4 53.2#



#75
 1,3-Dichlorobenzene
 Concen: 0.008 ppbv
 RT: 16.97 min Scan# 4410
 Delta R.T. -0.06 min
 Lab File: VL036146.D
 Acq: 11 Dec 2020 2:47

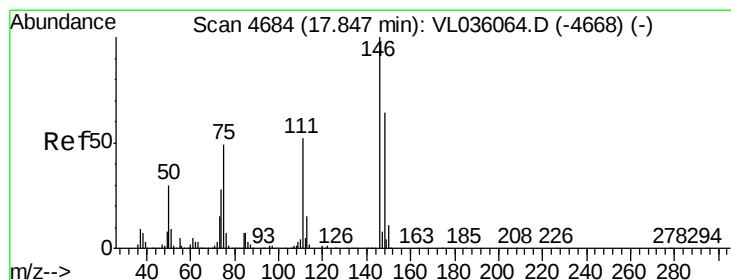
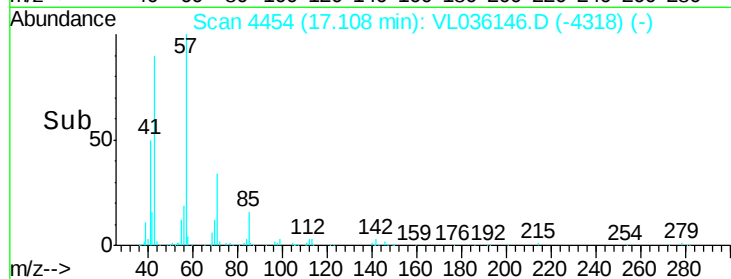
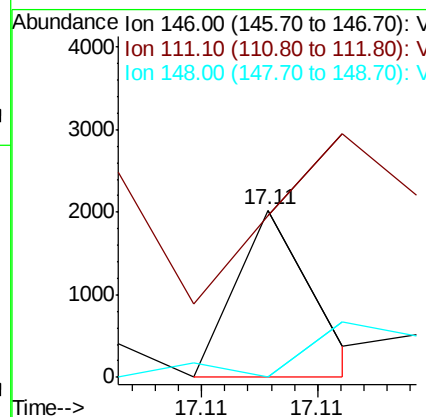
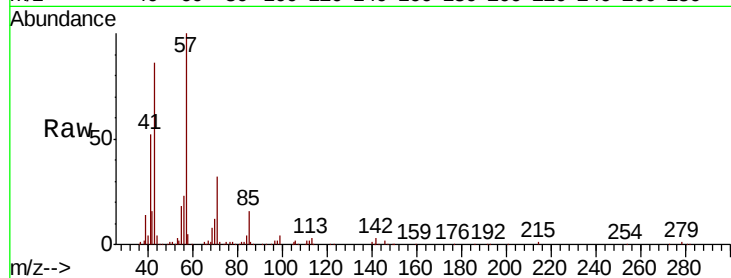
Tgt Ion:146 Resp: 990
 Ion Ratio Lower Upper
 146 100
 111 567.2 25.1 75.3#
 148 0.0 32.9 98.6#





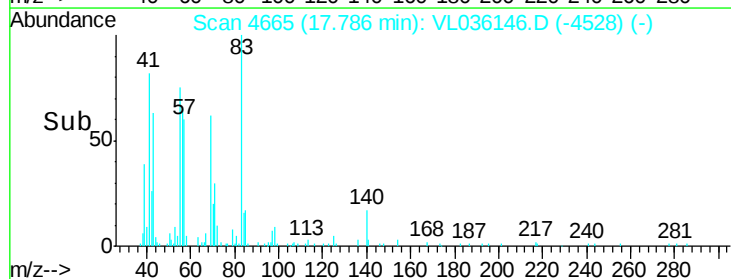
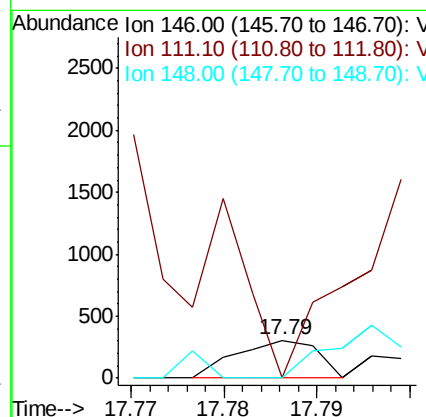
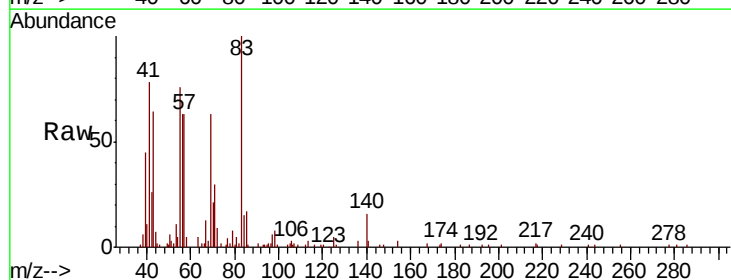
#76
 1,4-Dichlorobenzene
 Concen: 0.004 ppbv
 RT: 17.11 min Scan# 4454
 Delta R.T. -0.06 min
 Lab File: VL036146.D
 Acq: 11 Dec 2020 2:47

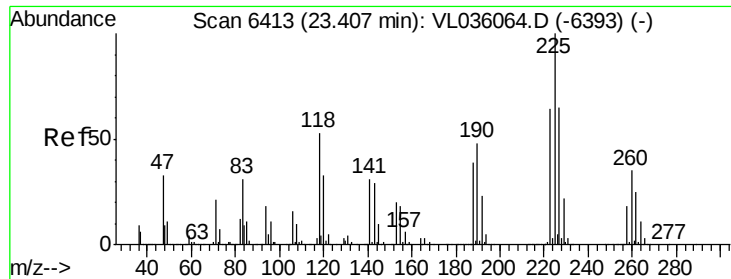
Tot Ion:146 Resp: 465
 Ion Ratio Lower Upper
 146 100
 111 1140.0 24.3 72.8#
 148 0.0 32.8 98.3#



#77
 1,2-Dichlorobenzene
 Concen: 0.002 ppbv
 RT: 17.79 min Scan# 4665
 Delta R.T. -0.06 min
 Lab File: VL036146.D
 Acq: 11 Dec 2020 2:47

Tgt Ion:146 Resp: 186
 Ion Ratio Lower Upper
 146 100
 111 759.7 26.1 78.2#
 148 0.0 33.1 99.5#

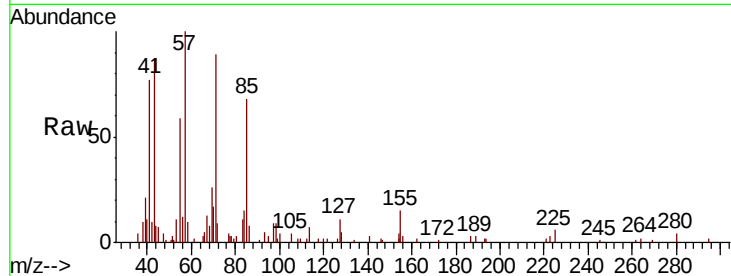




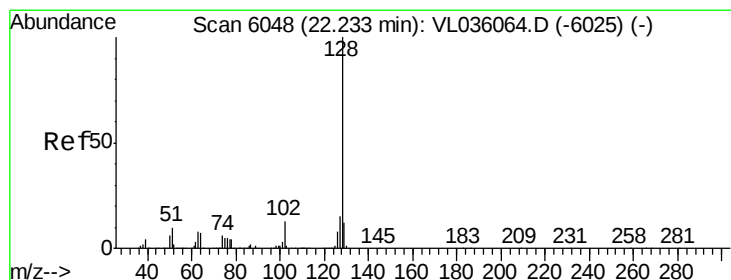
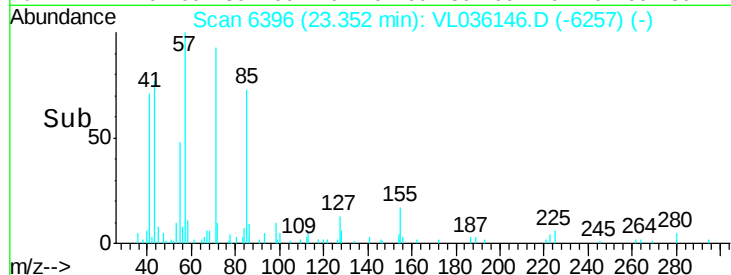
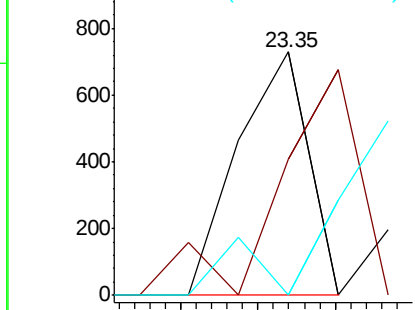
#78

Hexachloro-1,3-Butadiene
 Concen: 0.002 ppbv
 RT: 23.35 min Scan# 6396
 Delta R.T. -0.05 min
 Lab File: VL036146.D
 Acq: 11 Dec 2020 2:47

Tot Ion	Ratio	Lower	Upper
225	100		
223	116.9	51.1	76.7#
227	34.2	51.7	77.5#



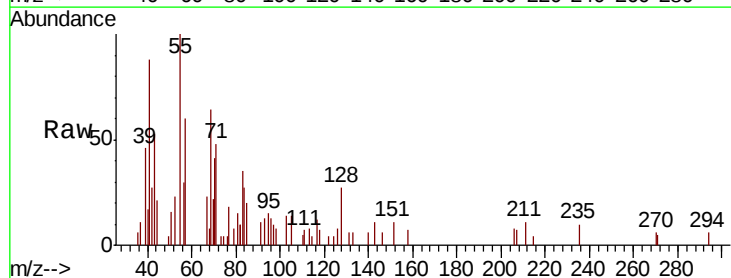
Abundance Ion 224.90 (224.60 to 225.60): V
 Ion 222.90 (222.60 to 223.60): V
 Ion 226.90 (226.60 to 227.60): V



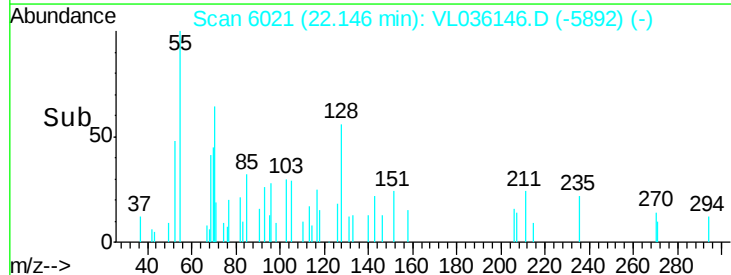
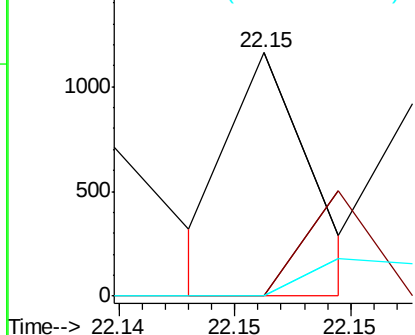
#79

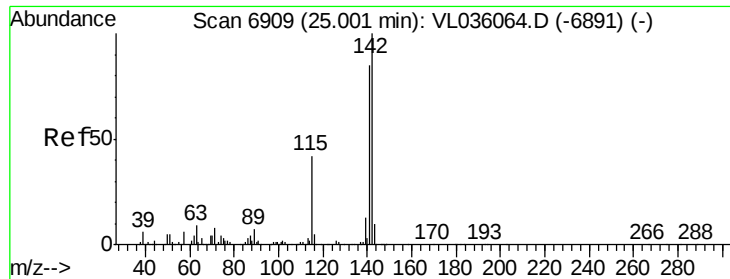
Naphthalene
 Concen: 0.002 ppbv
 RT: 22.15 min Scan# 6021
 Delta R.T. -0.09 min
 Lab File: VL036146.D
 Acq: 11 Dec 2020 2:47

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	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: 0.006 ppbv

RT: 24.91 min Scan# 6881

Delta R.T. -0.09 min

Lab File: VL036146.D

Acq: 11 Dec 2020 2:47

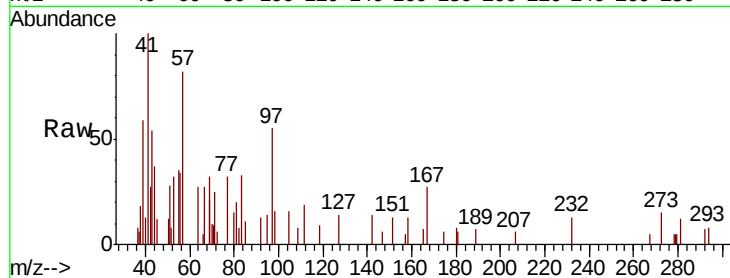
Tot Ion: 142 Resp: 160

Ion Ratio Lower Upper

142 100

141 56.9 64.3 96.5#

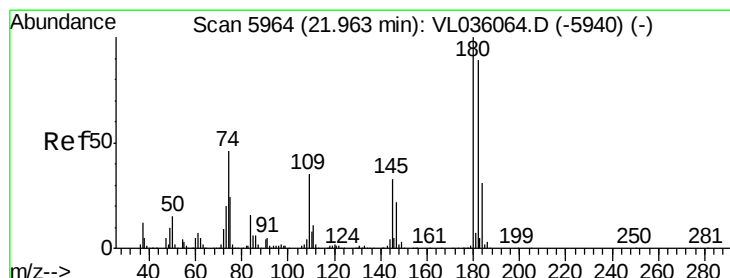
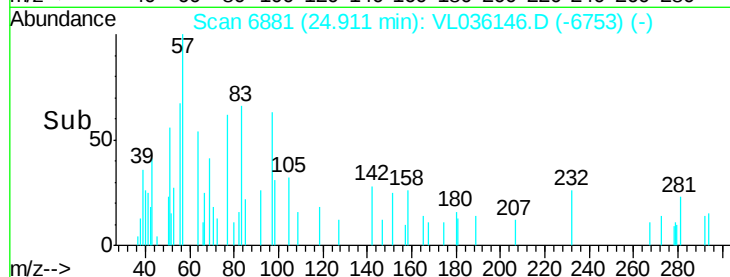
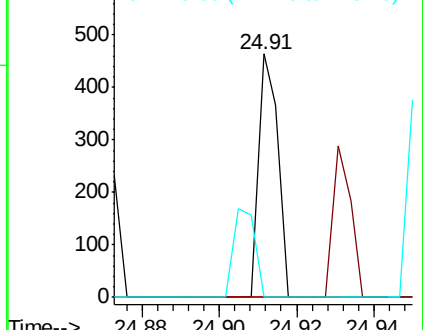
115 0.0 33.9 50.9#



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: 21.90 min Scan# 5945

Delta R.T. -0.06 min

Lab File: VL036146.D

Acq: 11 Dec 2020 2:47

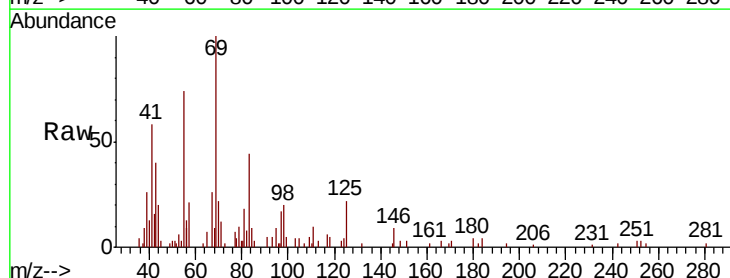
Tgt Ion: 180 Resp: 140

Ion Ratio Lower Upper

180 100

182 1197.1 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

