

Data Path : W:\HPCHEM1\MSVOA_U\DATA\VU052318\
 Data File : VU024029.D
 Acq On : 23 May 2018 10:12
 Operator : MD/SY
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 04:01:49 2018
 Quant Method : W:\HPCHEM1\MSVOA_U\METHOD\SOMULM051218WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed May 23 02:51:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	288088	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	285226	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	150140	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	93963	35.10	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	70.20%
7) Chloroethane-d5	1.68	69	79210	37.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	75.10%
11) 1,1-Dichloroethene-d2	2.27	63	198163	40.34	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	80.68%
21) 2-Butanone-d5	4.18	46	182778	98.11	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	98.11%
24) Chloroform-d	4.65	84	196907	48.19	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.38%
26) 1,2-Dichloroethane-d4	5.31	65	132648	49.34	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.68%
32) Benzene-d6	5.35	84	381925	45.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.74%
36) 1,2-Dichloropropane-d6	6.34	67	135168	48.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.12%
41) Toluene-d8	7.57	98	364559	47.52	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.04%
43) trans-1,3-Dichloropropene-	7.85	79	59660	50.43	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.86%
47) 2-Hexanone-d5	8.31	63	131391	101.36	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	101.36%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	198843	50.21	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.42%
64) 1,2-Dichlorobenzene-d4	11.87	152	153559	47.36	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.72%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	137557	46.70	ug/L	100
3) Chloromethane	1.33	50	140988	51.46	ug/L	99
5) Vinyl chloride	1.40	62	145002	45.67	ug/L	97
6) Bromomethane	1.63	94	63505	50.18	ug/L	100
8) Chloroethane	1.70	64	90610	45.51	ug/L	100
9) Trichlorofluoromethane	1.89	101	183697	46.33	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	115692	47.81	ug/L	99
12) 1,1-Dichloroethene	2.28	96	100410	46.66	ug/L	87
13) Acetone	2.32	43	257172	137.05	ug/L	97
14) Carbon disulfide	2.48	76	281401	49.07	ug/L	99
15) Methyl Acetate	2.62	43	153324	48.71	ug/L	99
16) Methylene chloride	2.70	84	128319	50.14	ug/L	95
17) trans-1,2-Dichloroethene	2.99	96	107714	50.76	ug/L	99
18) Methyl tert-butyl Ether	3.00	73	357400	52.46	ug/L	98
19) 1,1-Dichloroethane	3.45	63	231948	51.42	ug/L	99
20) cis-1,2-Dichloroethene	4.23	96	126840	51.18	ug/L	96
22) 2-Butanone	4.26	43	285477	125.01	ug/L	98

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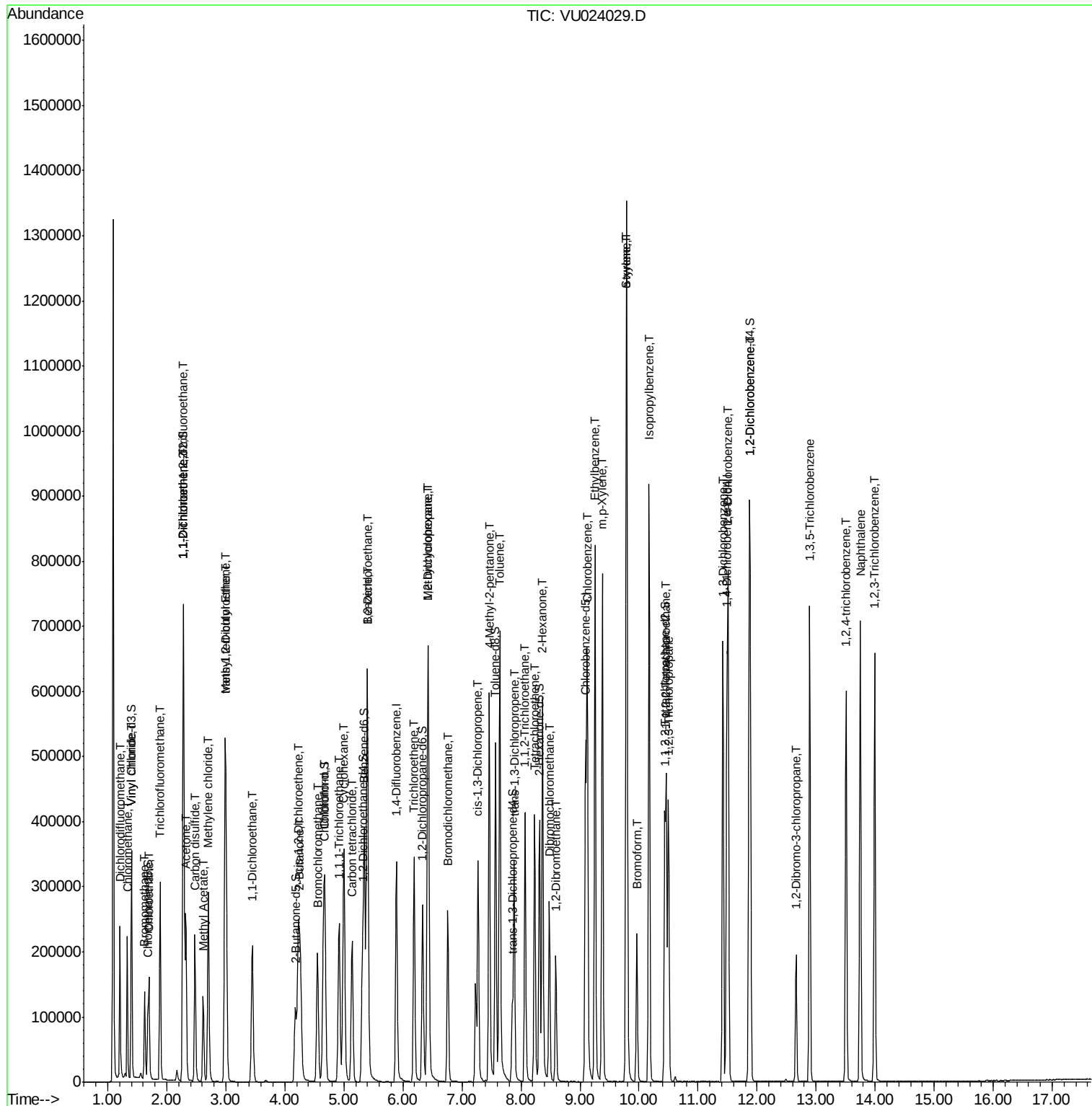
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

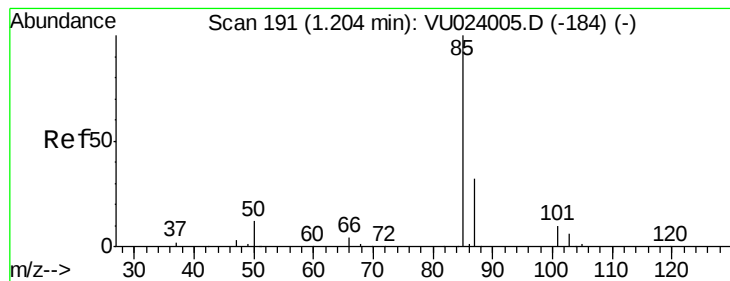
23) Bromochloromethane	4.55	128	65175	50.77	ug/L	94
25) Chloroform	4.68	83	242145	53.12	ug/L	99
27) 1,2-Dichloroethane	5.41	62	185557	53.53	ug/L	98
29) Cyclohexane	5.00	56	187215	54.65	ug/L	97
30) 1,1,1-Trichloroethane	4.92	97	185397	52.05	ug/L	99
31) Carbon tetrachloride	5.14	117	157249	51.22	ug/L	100
33) Benzene	5.39	78	494242	52.67	ug/L	100
34) Trichloroethene	6.19	95	122566	51.21	ug/L	98
35) Methylcyclohexane	6.42	83	180595	53.17	ug/L	98
37) 1,2-Dichloropropane	6.44	63	145944	52.56	ug/L	99
38) Bromodichloromethane	6.76	83	174508	53.03	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	200540	54.72	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	414989	106.08	ug/L	98
42) Toluene	7.64	91	521739	53.35	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	186635	55.30	ug/L	99
45) 1,1,2-Trichloroethane	8.07	97	128350	51.46	ug/L	98
46) Tetrachloroethene	8.23	164	96925	49.53	ug/L	96
48) 2-Hexanone	8.36	43	380269	119.69	ug/L	100
49) Dibromochloromethane	8.48	129	137718	51.93	ug/L	100
50) 1,2-Dibromoethane	8.59	107	129824	51.03	ug/L	99
51) Chlorobenzene	9.12	112	342041	51.55	ug/L	96
52) Ethylbenzene	9.25	91	577526	54.78	ug/L	100
53) m,p-Xylene	9.38	106	214998	53.81	ug/L	97
54) o-xylene	9.79	106	212358	54.70	ug/L	99
55) Styrene	9.80	104	386572	56.96	ug/L	99
56) Isopropylbenzene	10.17	105	559806	54.83	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	227307	50.63	ug/L	100
59) 1,2,3-Trichloropropane	10.50	75	182761	50.72	ug/L	99
61) Bromoform	9.96	173	103606	48.83	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	266756	51.01	ug/L	99
63) 1,4-Dichlorobenzene	11.51	146	285998	51.61	ug/L	100
65) 1,2-Dichlorobenzene	11.88	146	284672	50.48	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.66	75	48709	48.97	ug/L	92
67) 1,3,5-Trichlorobenzene	12.89	180	224607	51.94	ug/L	100
68) 1,2,4-trichlorobenzene	13.51	180	186662	52.71	ug/L	99
69) Naphthalene	13.75	128	541246	53.68	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	200828	53.00	ug/L	98

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

```
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#2

Dichlorodifluoromethane

Concen: 46.70 ug/L

RT: 1.20 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU024029.D

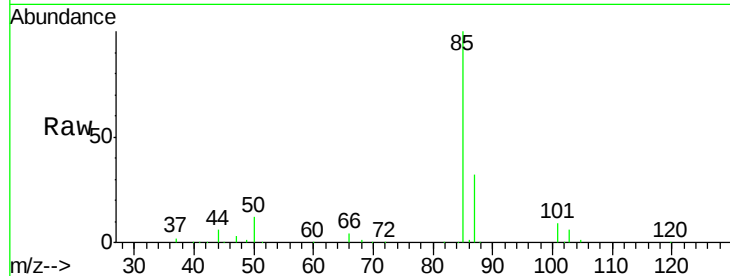
Acq: 23 May 2018 10:12

Tgt Ion: 85 Resp: 137557

Ion Ratio Lower Upper

85 100

87 31.8 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU024029.D (-98) (-)

Ion 87.00 (86.70 to 87.70): VU024029.D (-98) (-)

1.20

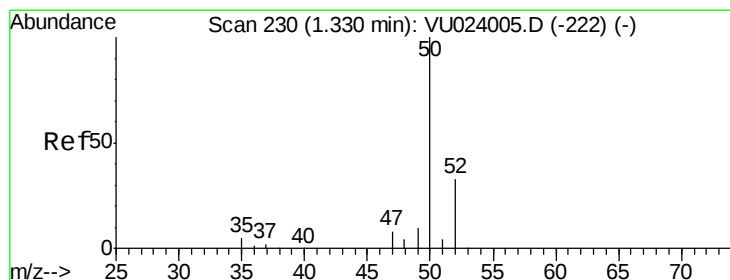
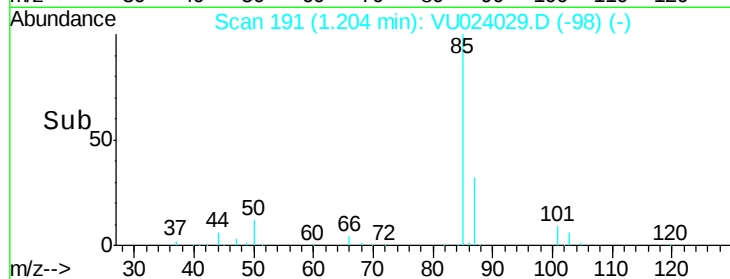
150000

100000

50000

0

Time--> 1.15 1.20 1.25 1.30



#3

Chloromethane

Concen: 51.46 ug/L

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU024029.D

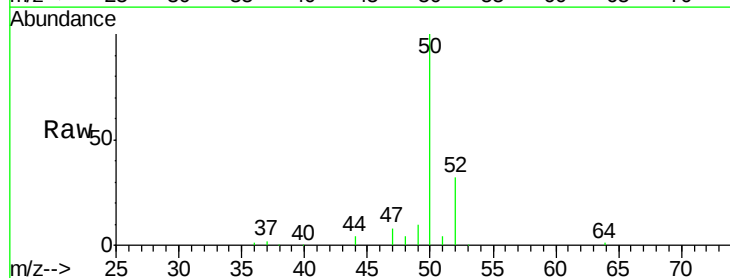
Acq: 23 May 2018 10:12

Tgt Ion: 50 Resp: 140988

Ion Ratio Lower Upper

50 100

52 32.2 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU024029.D (-137) (-)

Ion 52.00 (51.70 to 52.70): VU024029.D (-137) (-)

1.33

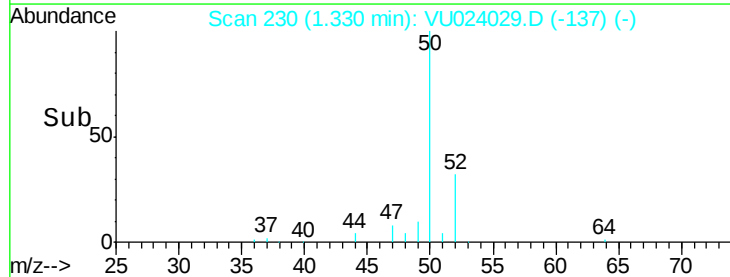
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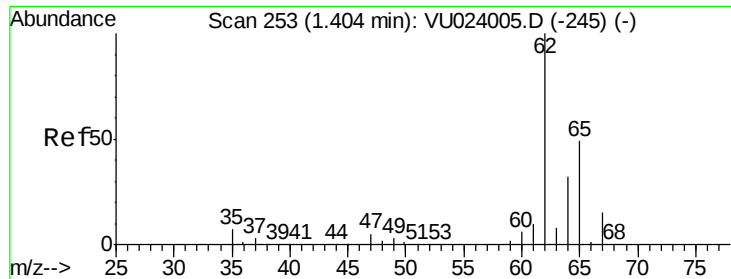
100000

50000

0

Time--> 1.30 1.35 1.40





#5

Vinyl chloride

Concen: 45.67 ug/L

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU024029.D

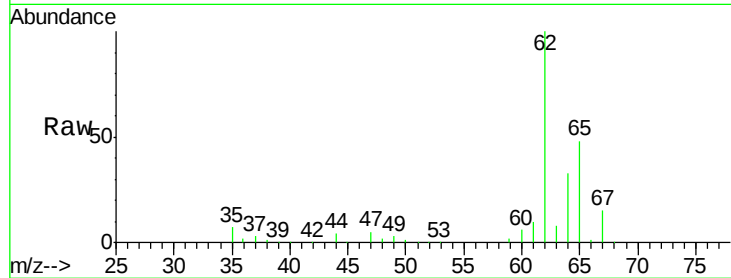
Acq: 23 May 2018 10:12

Tgt Ion: 62 Resp: 145002

Ion Ratio Lower Upper

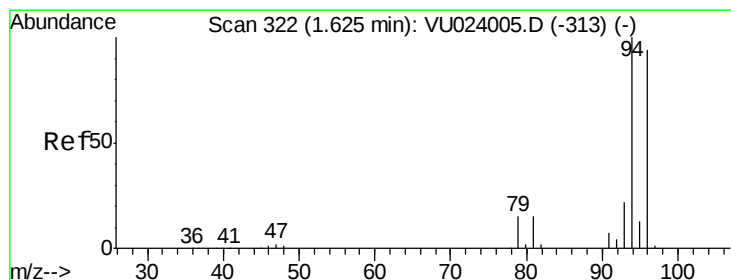
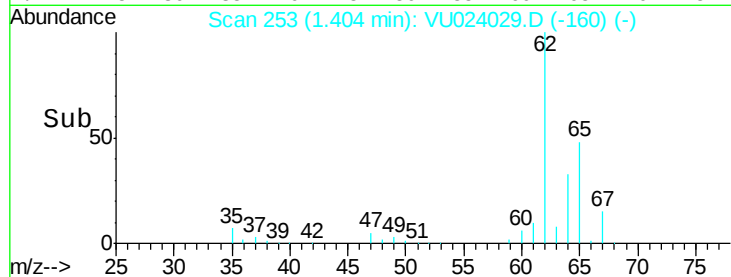
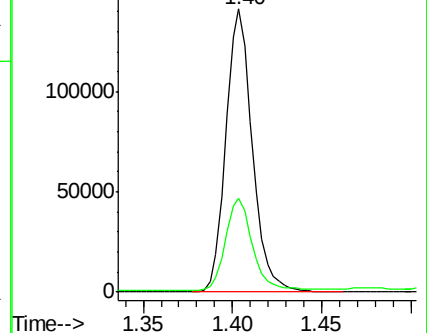
62 100

64 33.2 24.4 45.2



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 50.18 ug/L

RT: 1.63 min Scan# 322

Delta R.T. 0.00 min

Lab File: VU024029.D

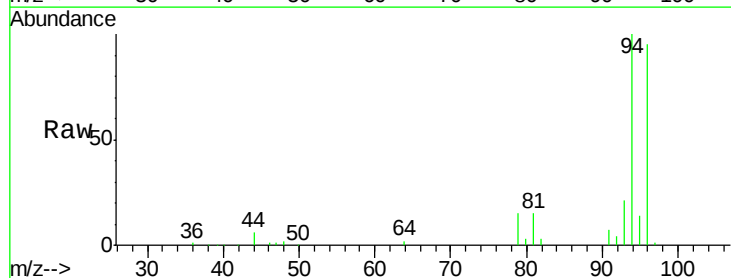
Acq: 23 May 2018 10:12

Tgt Ion: 94 Resp: 63505

Ion Ratio Lower Upper

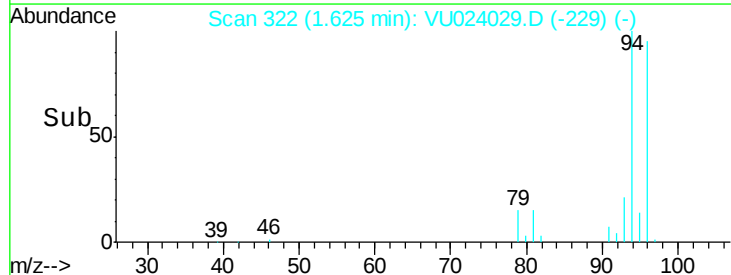
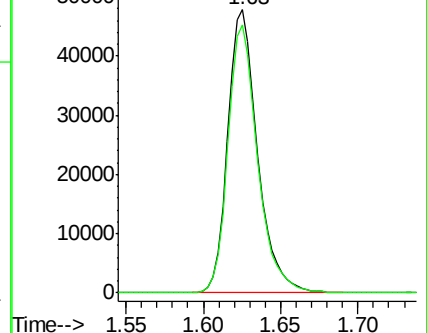
94 100

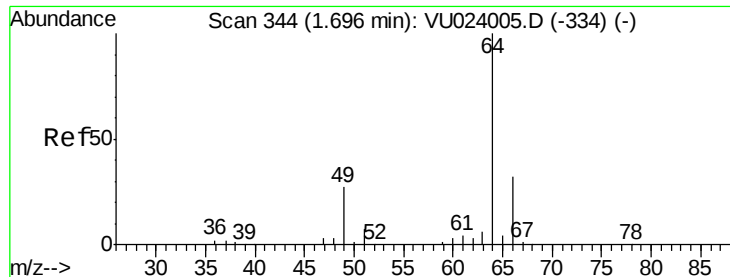
96 94.8 66.6 123.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 45.51 ug/L

RT: 1.70 min Scan# 345

Delta R.T. 0.00 min

Lab File: VU024029.D

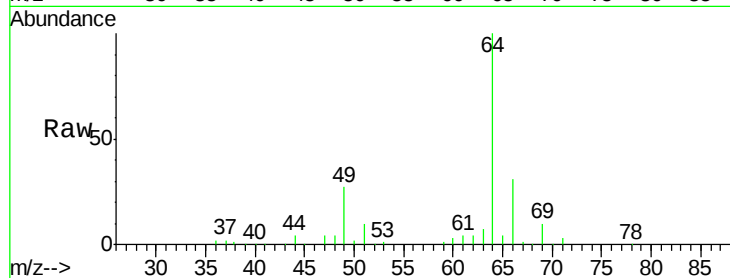
Acq: 23 May 2018 10:12

Tgt Ion: 64 Resp: 90610

Ion Ratio Lower Upper

64 100

66 31.4 22.0 41.0



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0

1.70

60000

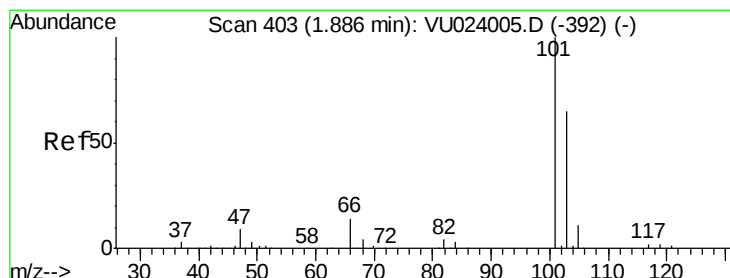
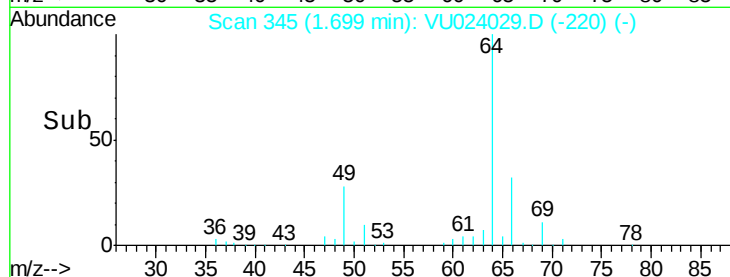
40000

20000

0

Time-->

1.65 1.70 1.75



#9

Trichlorofluoromethane

Concen: 46.33 ug/L

RT: 1.89 min Scan# 403

Delta R.T. -0.00 min

Lab File: VU024029.D

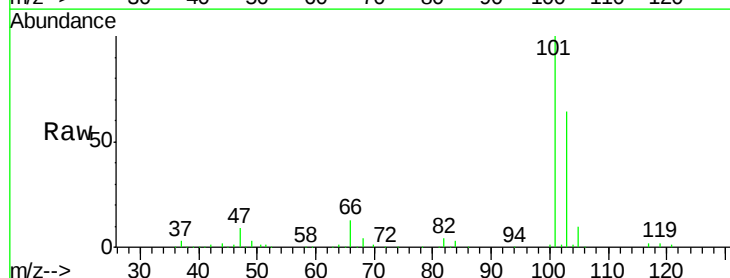
Acq: 23 May 2018 10:12

Tgt Ion: 101 Resp: 183697

Ion Ratio Lower Upper

101 100

103 64.4 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

1.89

150000

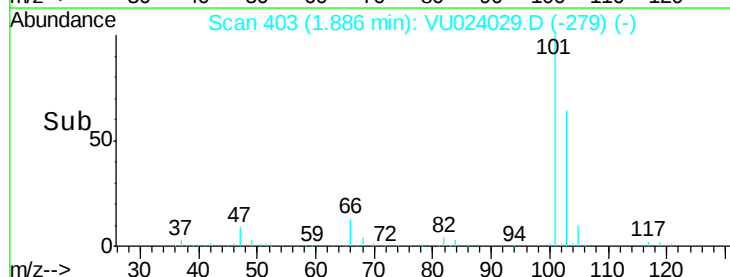
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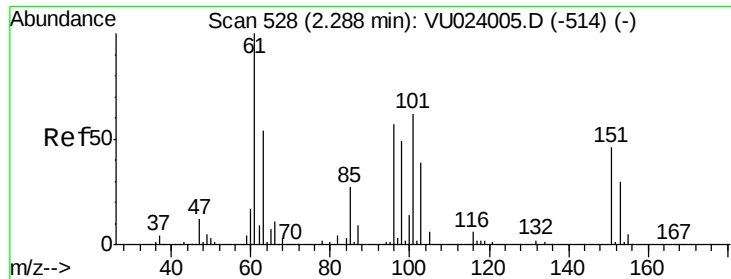
50000

0

Time-->

1.80 1.85 1.90 1.95





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 47.81 ug/L

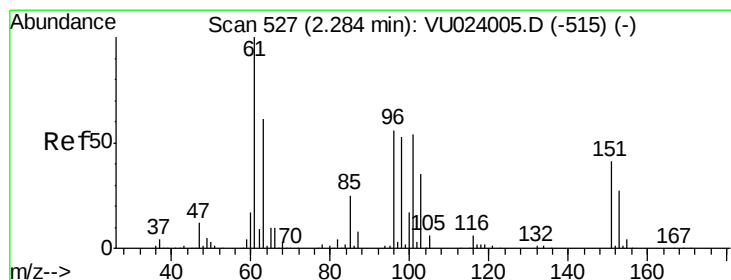
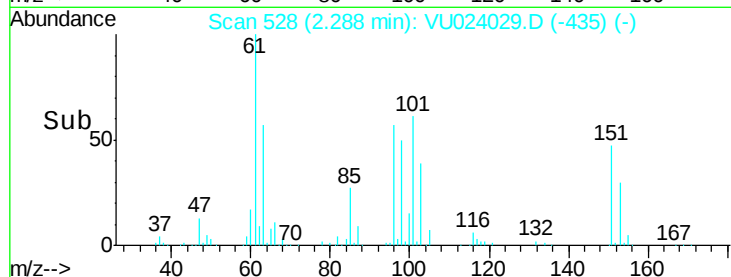
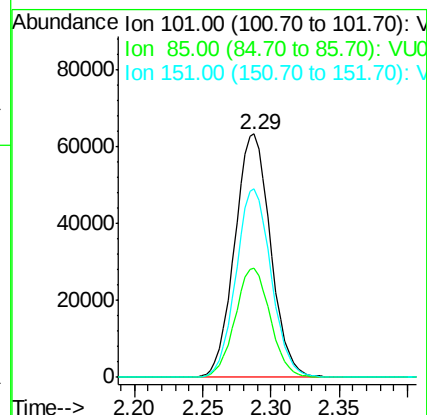
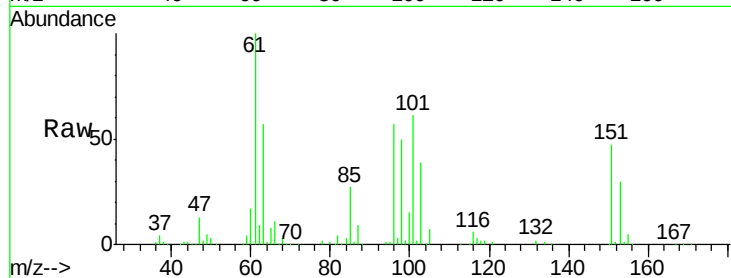
RT: 2.29 min Scan# 528

Delta R.T. 0.00 min

Lab File: VU024029.D

Acq: 23 May 2018 10:12

Tgt Ion:	101	Resp:	115692
Ion	Ratio	Lower	Upper
101	100		
85	44.0	34.3	51.5
151	76.1	61.0	91.4



#12

1,1-Dichloroethene

Concen: 46.66 ug/L

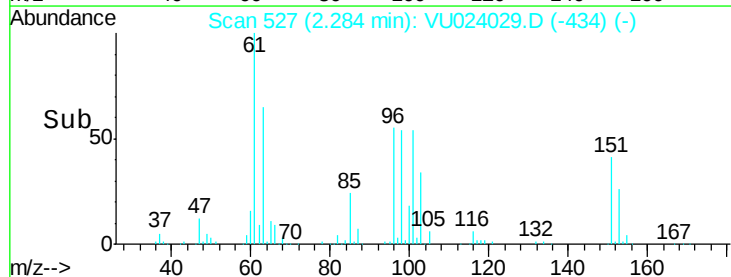
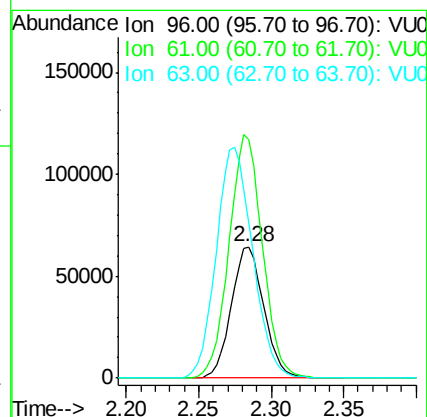
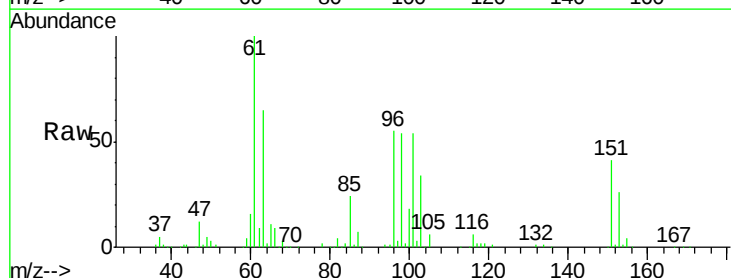
RT: 2.28 min Scan# 527

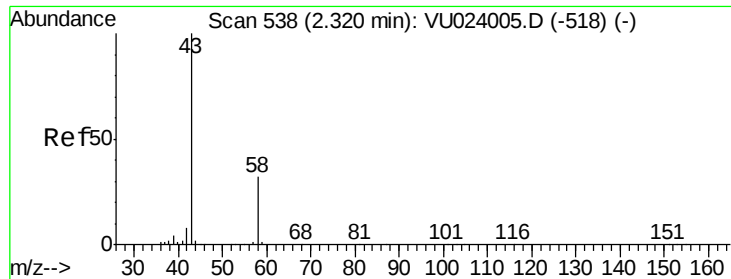
Delta R.T. 0.00 min

Lab File: VU024029.D

Acq: 23 May 2018 10:12

Tgt Ion:	96	Resp:	100410
Ion	Ratio	Lower	Upper
96	100		
61	181.8	129.5	240.5
63	117.9	106.9	198.5





#13

Acetone

Concen: 137.05 ug/L

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU024029.D

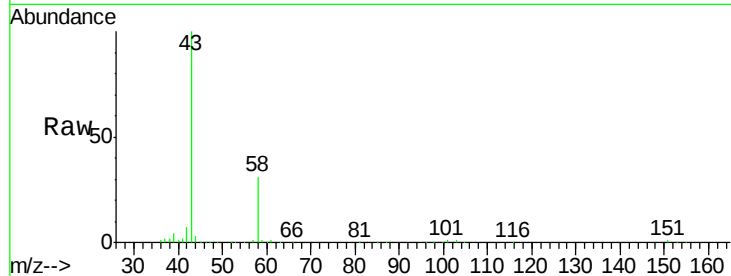
Acq: 23 May 2018 10:12

Tgt Ion: 43 Resp: 257172

Ion Ratio Lower Upper

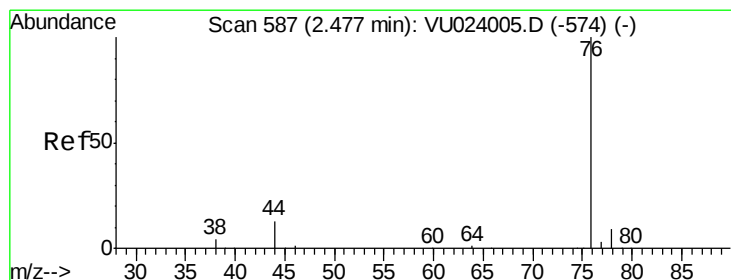
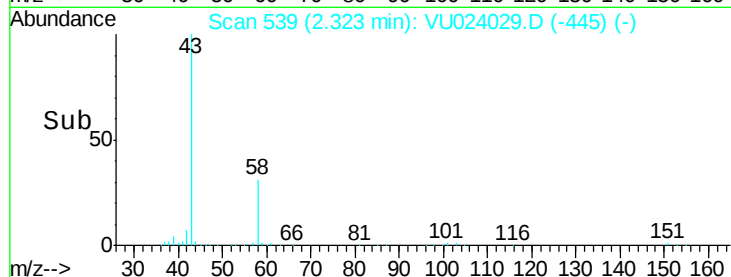
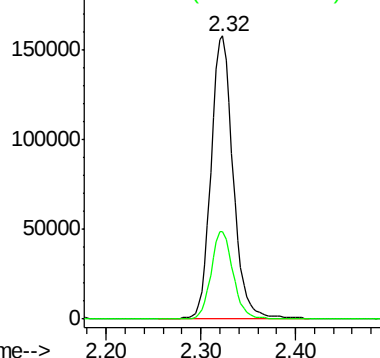
43 100

58 30.8 0.0 65.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 49.07 ug/L

RT: 2.48 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU024029.D

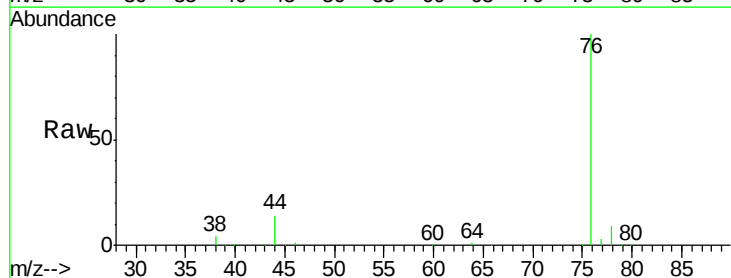
Acq: 23 May 2018 10:12

Tgt Ion: 76 Resp: 281401

Ion Ratio Lower Upper

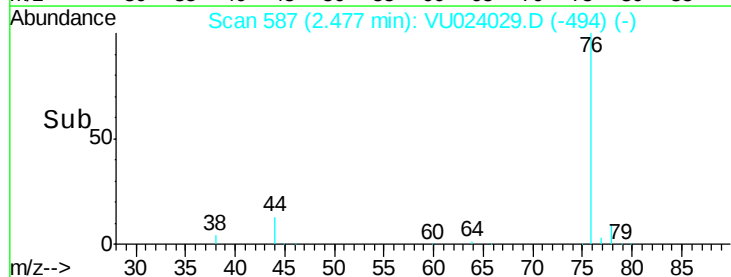
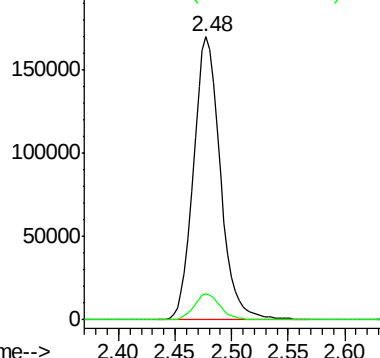
76 100

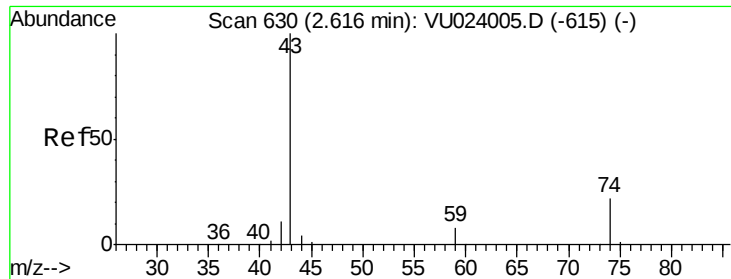
78 9.3 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VU0

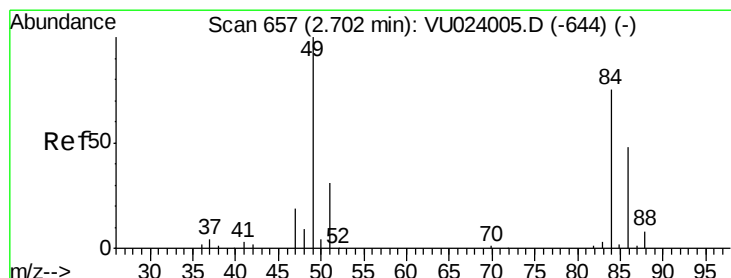
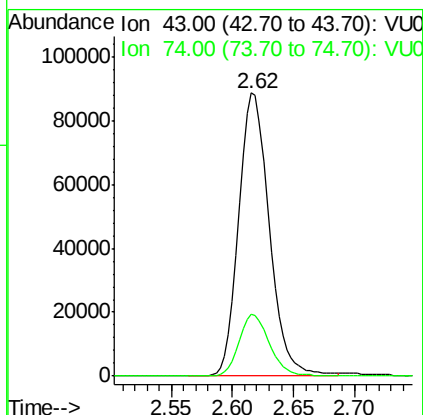
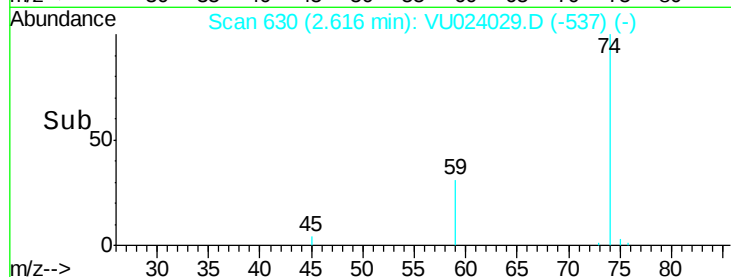
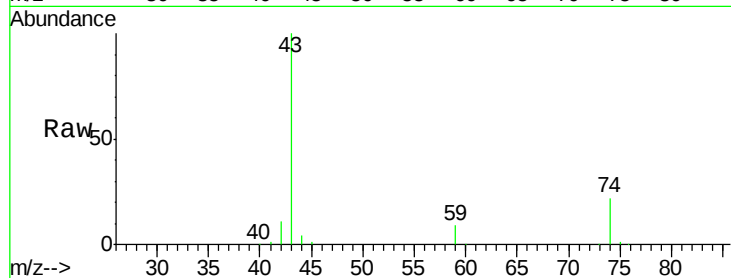
Ion 78.00 (77.70 to 78.70): VU0





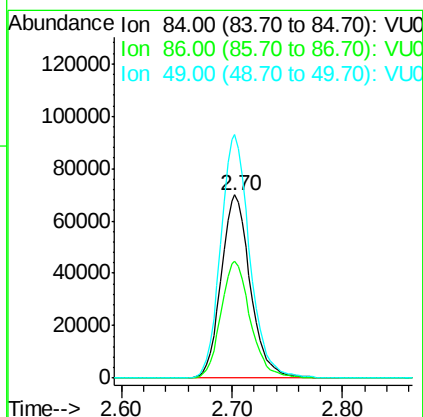
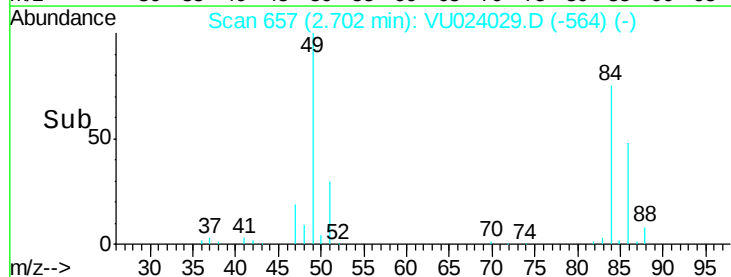
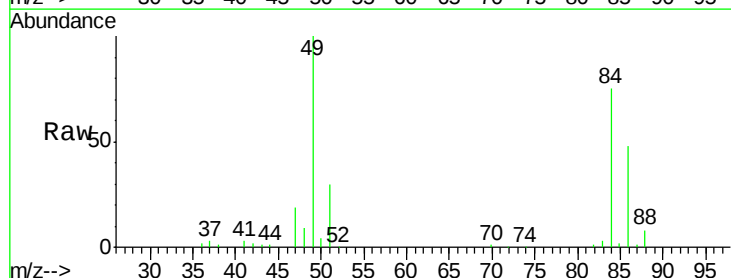
#15
Methyl Acetate
Concen: 48.71 ug/L
RT: 2.62 min Scan# 630
Delta R.T. 0.00 min
Lab File: VU024029.D
Acq: 23 May 2018 10:12

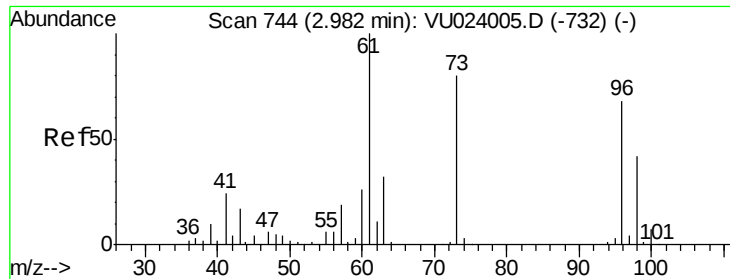
Tgt Ion: 43 Resp: 153324
Ion Ratio Lower Upper
43 100
74 21.7 17.8 26.6



#16
Methylene chloride
Concen: 50.14 ug/L
RT: 2.70 min Scan# 657
Delta R.T. 0.00 min
Lab File: VU024029.D
Acq: 23 May 2018 10:12

Tgt Ion: 84 Resp: 128319
Ion Ratio Lower Upper
84 100
86 64.1 44.6 82.8
49 133.0 87.6 162.6





#17

trans-1,2-Dichloroethene

Concen: 50.76 ug/L

RT: 2.99 min Scan# 745

Delta R.T. 0.00 min

Lab File: VU024029.D

Acq: 23 May 2018 10:12

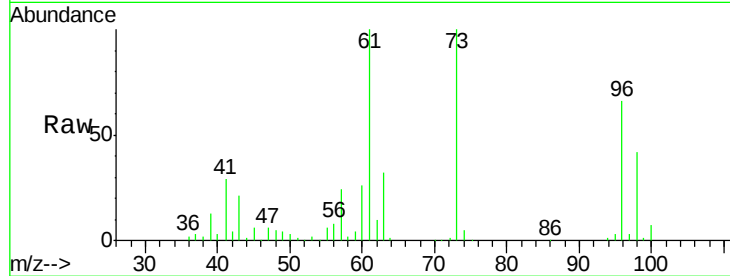
Tgt Ion: 96 Resp: 107714

Ion Ratio Lower Upper

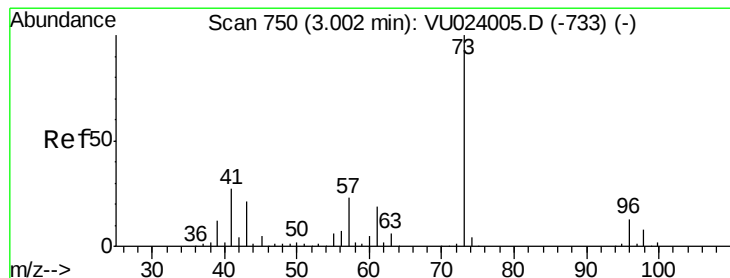
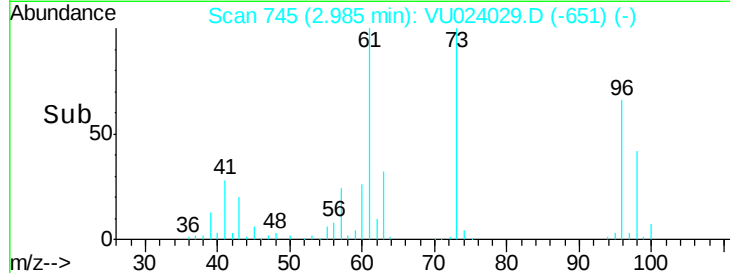
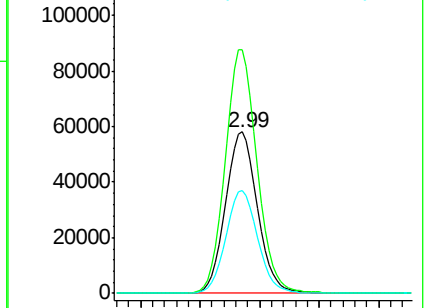
96 100

61 150.8 104.4 194.0

98 63.8 45.5 84.5



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 52.46 ug/L

RT: 3.00 min Scan# 750

Delta R.T. 0.00 min

Lab File: VU024029.D

Acq: 23 May 2018 10:12

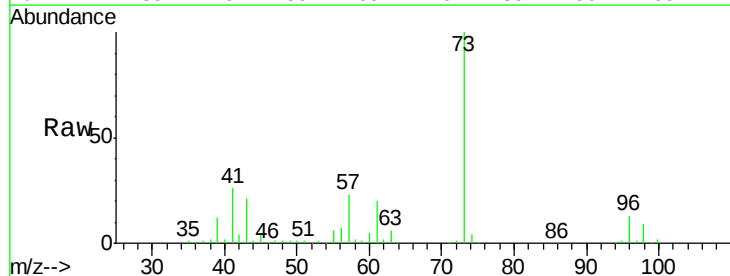
Tgt Ion: 73 Resp: 357400

Ion Ratio Lower Upper

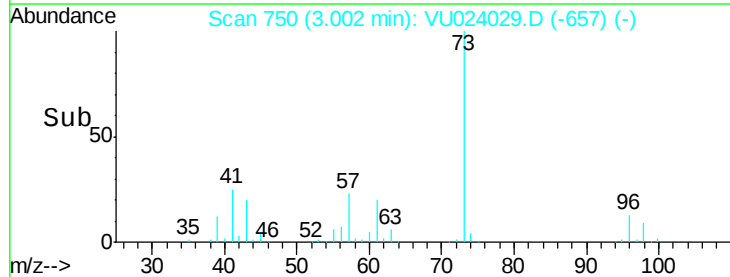
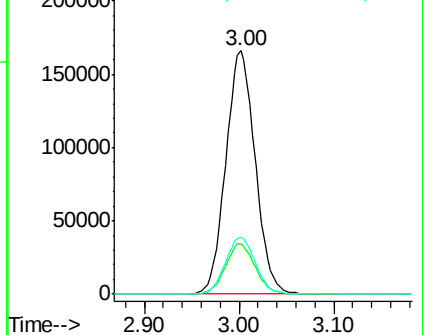
73 100

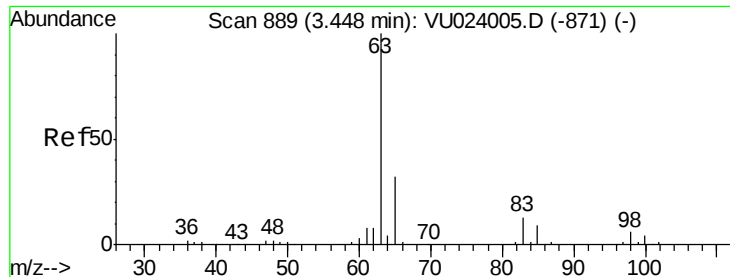
43 20.9 15.5 23.3

57 23.8 18.6 27.8



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 51.42 ug/L

RT: 3.45 min Scan# 889

Delta R.T. 0.00 min

Lab File: VU024029.D

Acq: 23 May 2018 10:12

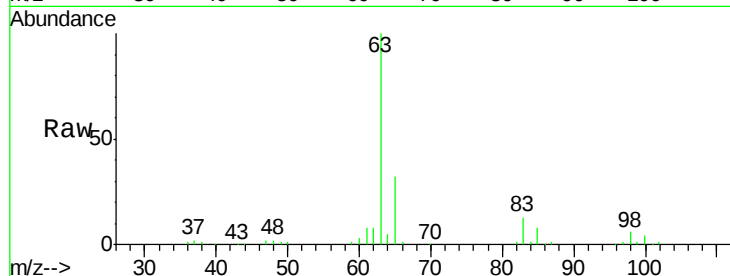
Tgt Ion: 63 Resp: 231948

Ion Ratio Lower Upper

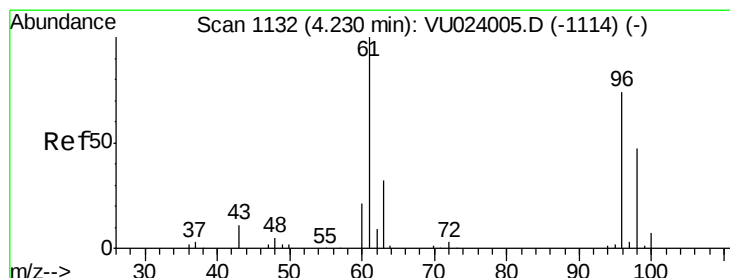
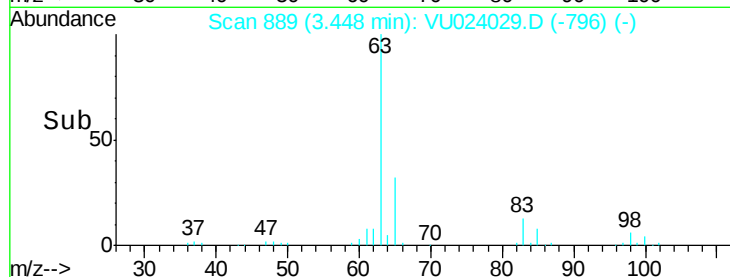
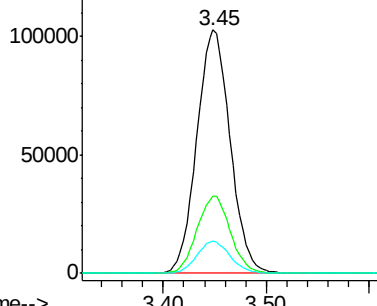
63 100

65 32.0 22.5 41.9

83 13.2 8.8 16.4



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 65.00 (64.70 to 65.70): VU0
Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 51.18 ug/L

RT: 4.23 min Scan# 1132

Delta R.T. 0.00 min

Lab File: VU024029.D

Acq: 23 May 2018 10:12

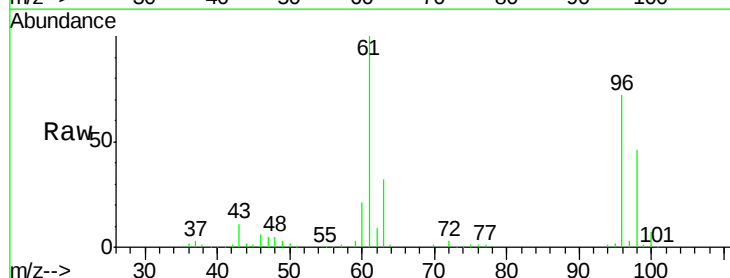
Tgt Ion: 96 Resp: 126840

Ion Ratio Lower Upper

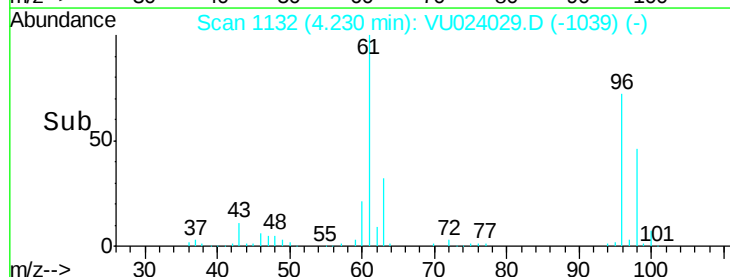
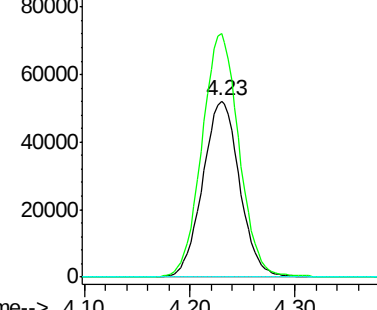
96 100

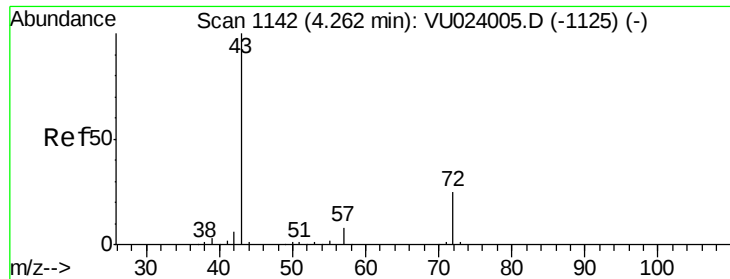
61 138.5 93.3 173.3

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 125.01 ug/L

RT: 4.26 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VU024029.D

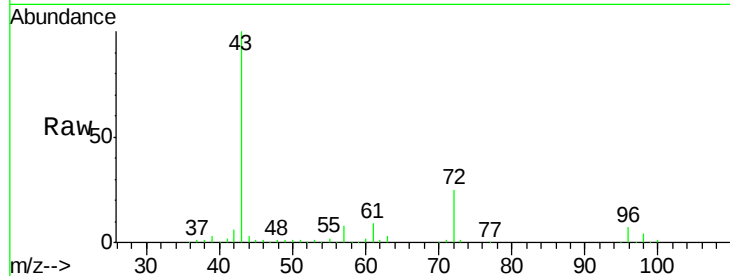
Acq: 23 May 2018 10:12

Tgt Ion: 43 Resp: 285477

Ion Ratio Lower Upper

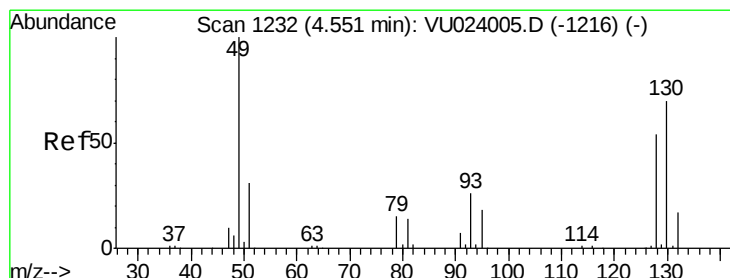
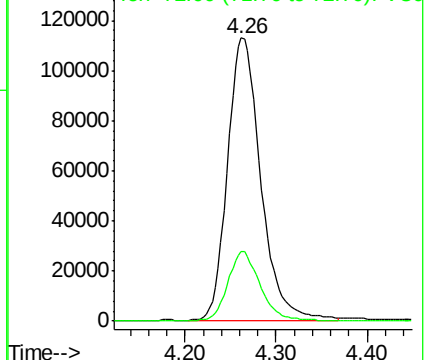
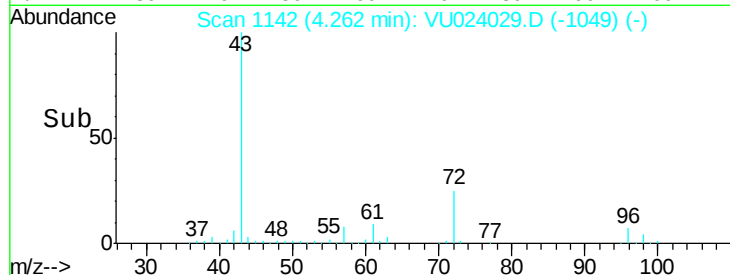
43 100

72 24.4 12.8 38.4



Abundance Ion 43.00 (42.70 to 43.70): VU024029.D (-1049) (-)

Ion 72.00 (71.70 to 72.70): VU024029.D (-1049) (-)



#23

Bromochloromethane

Concen: 50.77 ug/L

RT: 4.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VU024029.D

Acq: 23 May 2018 10:12

Tgt Ion: 128 Resp: 65175

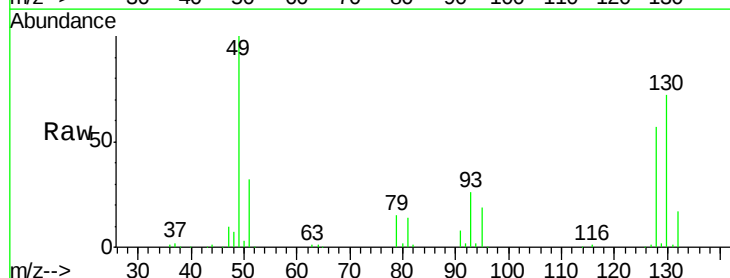
Ion Ratio Lower Upper

128 100

49 176.1 117.6 218.4

130 126.5 93.4 173.6

51 56.7 42.6 64.0

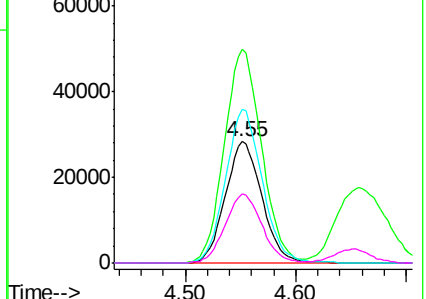
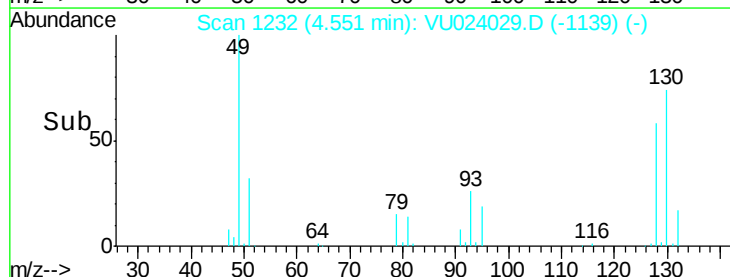


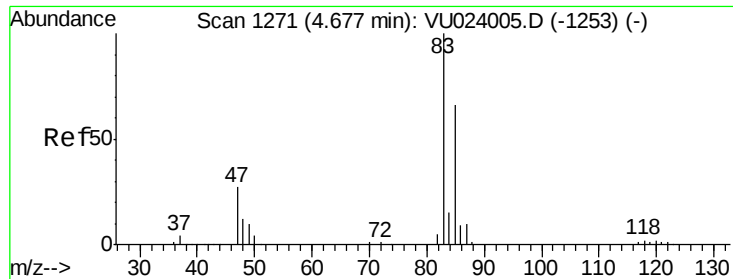
Abundance Ion 128.00 (127.70 to 128.70): VU024029.D (-1139) (-)

Ion 49.00 (48.70 to 49.70): VU024029.D (-1139) (-)

Ion 130.00 (129.70 to 130.70): VU024029.D (-1139) (-)

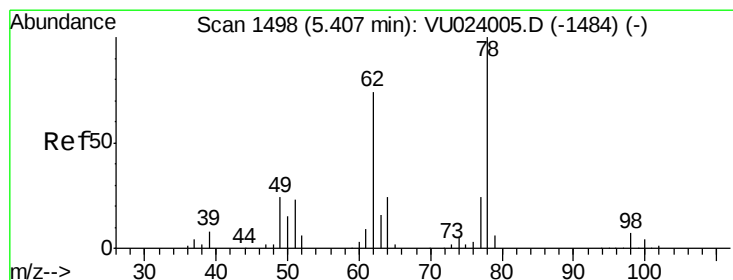
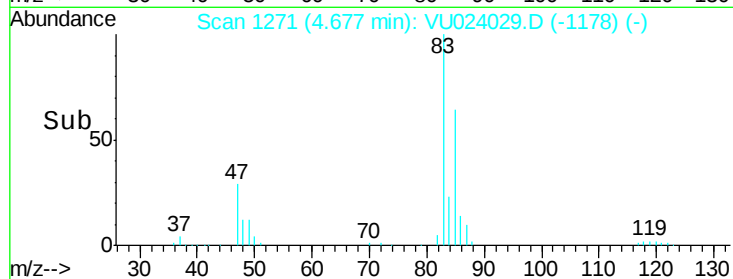
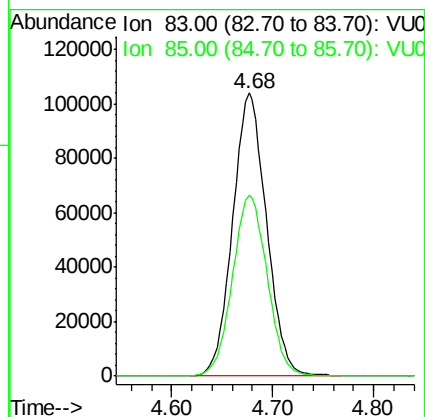
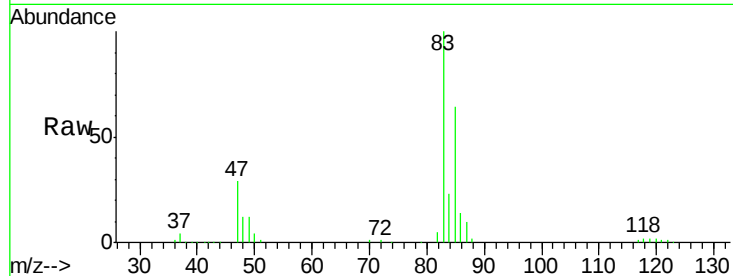
Ion 51.00 (50.70 to 51.70): VU024029.D (-1139) (-)





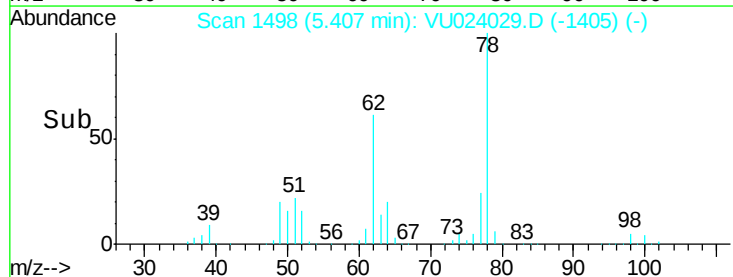
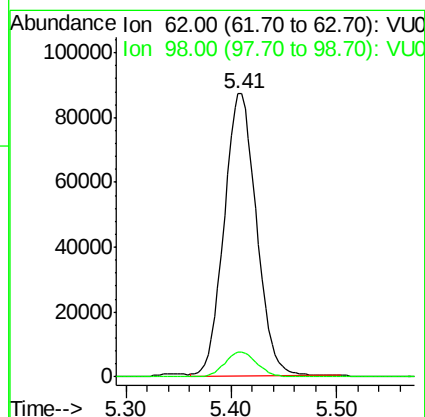
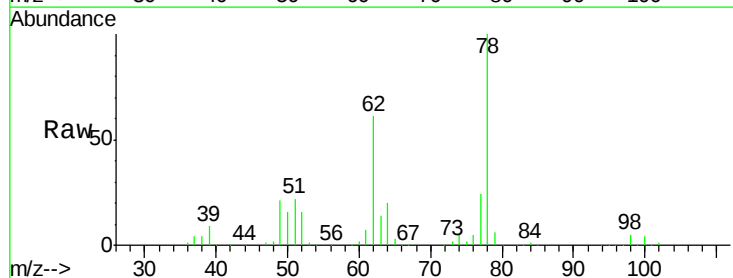
#25
Chloroform
Concen: 53.12 ug/L
RT: 4.68 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VU024029.D
Acq: 23 May 2018 10:12

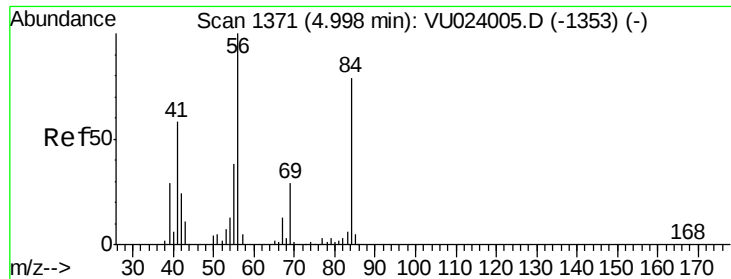
Tgt Ion: 83 Resp: 242145
Ion Ratio Lower Upper
83 100
85 64.0 44.4 82.5



#27
1,2-Dichloroethane
Concen: 53.53 ug/L
RT: 5.41 min Scan# 1498
Delta R.T. 0.00 min
Lab File: VU024029.D
Acq: 23 May 2018 10:12

Tgt Ion: 62 Resp: 185557
Ion Ratio Lower Upper
62 100
98 8.8 7.5 11.3





#29

Cyclohexane

Concen: 54.65 ug/L

RT: 5.00 min Scan# 1372

Delta R.T. 0.00 min

Lab File: VU024029.D

Acq: 23 May 2018 10:12

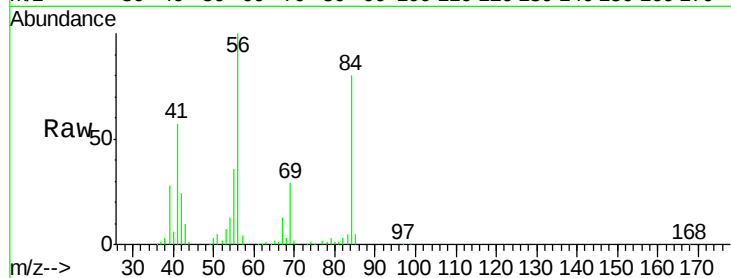
Tgt Ion: 56 Resp: 187215

Ion Ratio Lower Upper

56 100

69 29.1 23.6 35.4

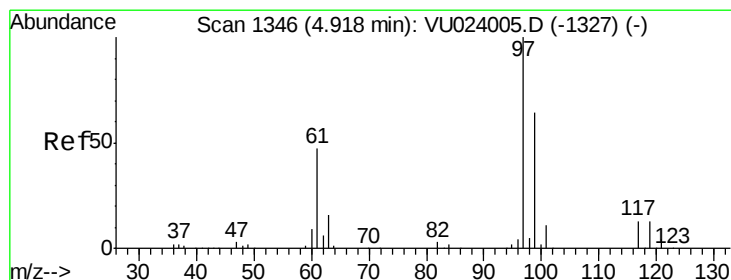
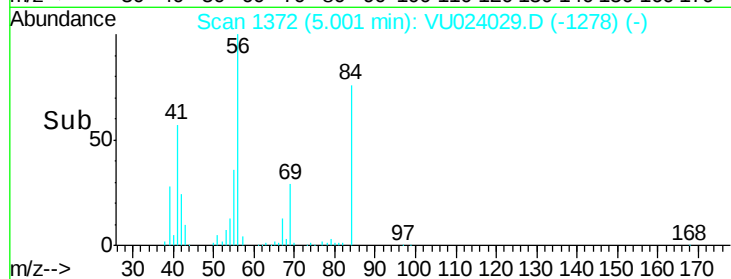
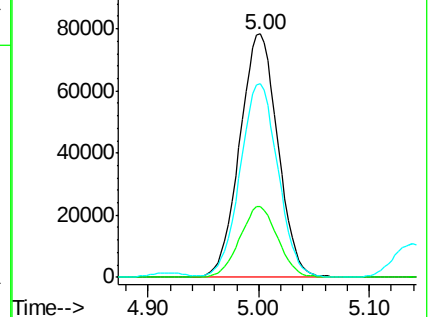
84 78.7 65.8 98.6



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



#30

1,1,1-Trichloroethane

Concen: 52.05 ug/L

RT: 4.92 min Scan# 1346

Delta R.T. 0.00 min

Lab File: VU024029.D

Acq: 23 May 2018 10:12

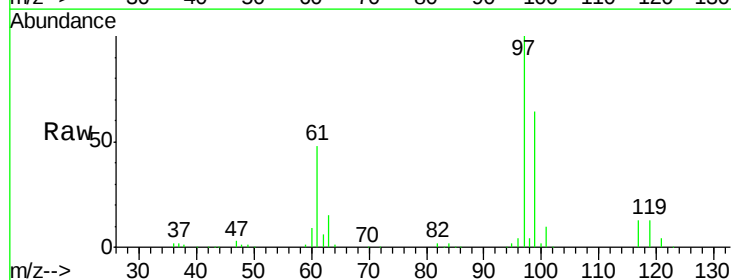
Tgt Ion: 97 Resp: 185397

Ion Ratio Lower Upper

97 100

99 64.3 52.0 78.0

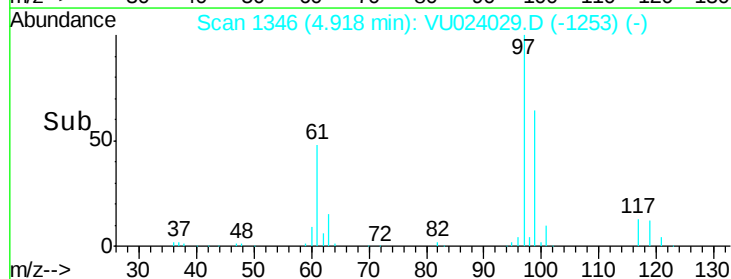
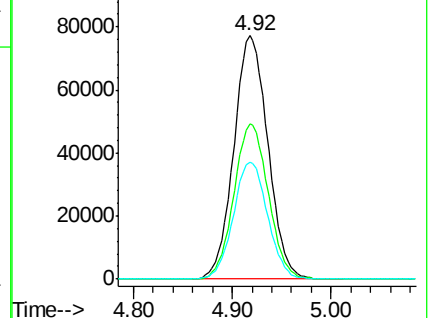
61 48.4 37.6 56.4

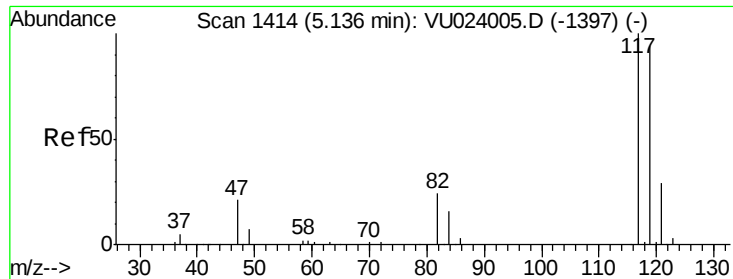


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

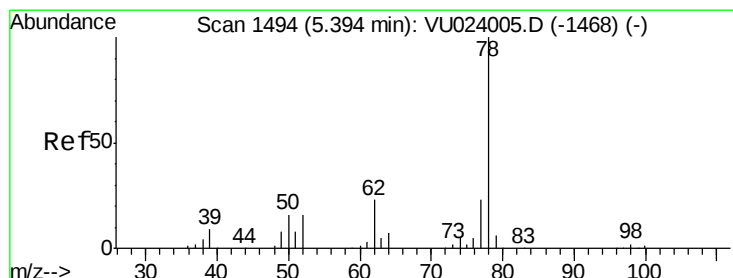
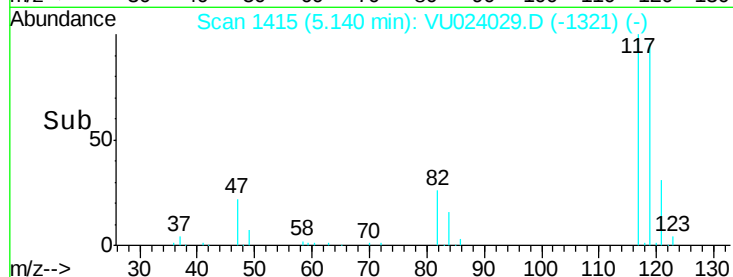
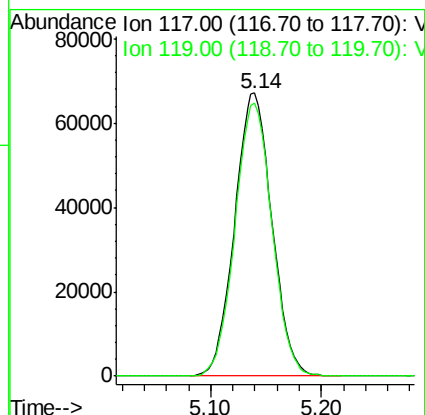
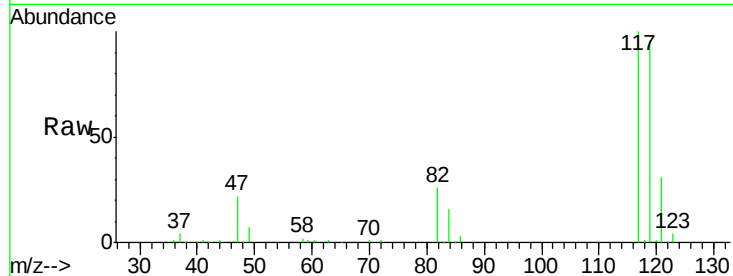
Ion 61.05 (60.75 to 61.75): VU0





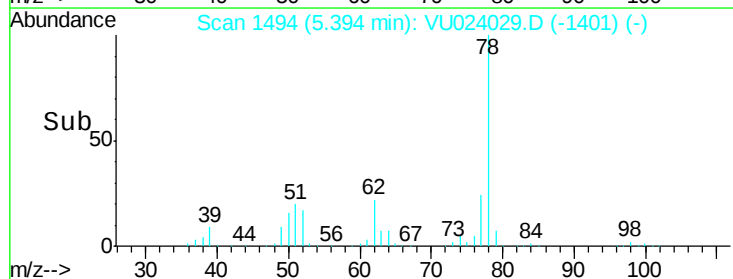
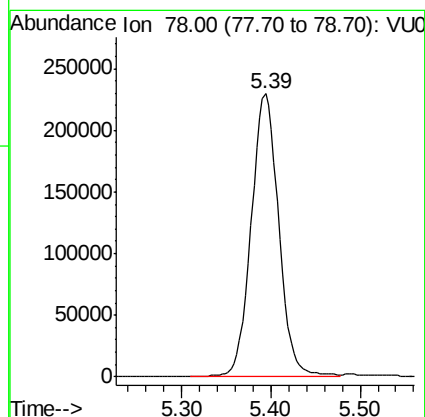
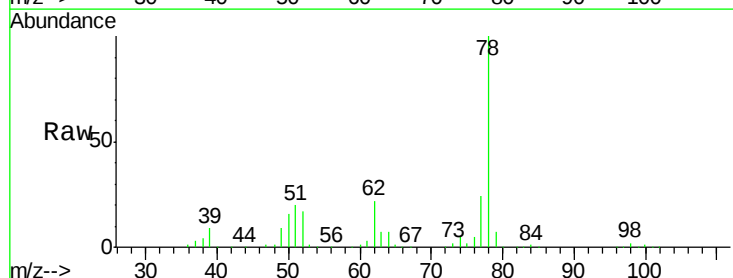
#31
Carbon tetrachloride
Concen: 51.22 ug/L
RT: 5.14 min Scan# 1415
Delta R.T. 0.00 min
Lab File: VU024029.D
Acq: 23 May 2018 10:12

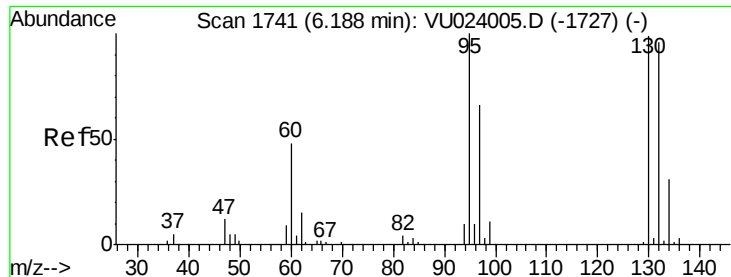
Tgt Ion:117 Resp: 157249
Ion Ratio Lower Upper
117 100
119 95.8 76.6 115.0



#33
Benzene
Concen: 52.67 ug/L
RT: 5.39 min Scan# 1494
Delta R.T. 0.00 min
Lab File: VU024029.D
Acq: 23 May 2018 10:12

Tgt Ion: 78 Resp: 494242





#34

Trichloroethene

Concen: 51.21 ug/L

RT: 6.19 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VU024029.D

Acq: 23 May 2018 10:12

Tgt Ion: 95 Resp: 122566

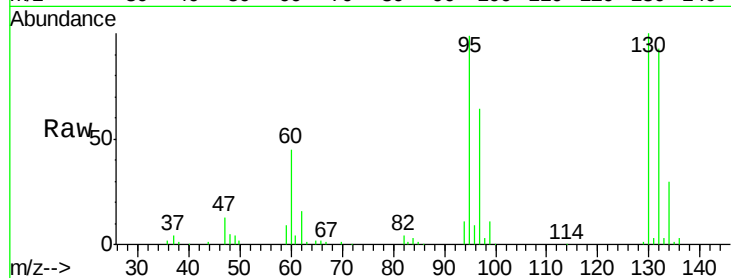
Ion Ratio Lower Upper

95 100

97 65.2 45.4 84.2

132 94.5 69.0 128.1

130 101.2 71.7 133.1

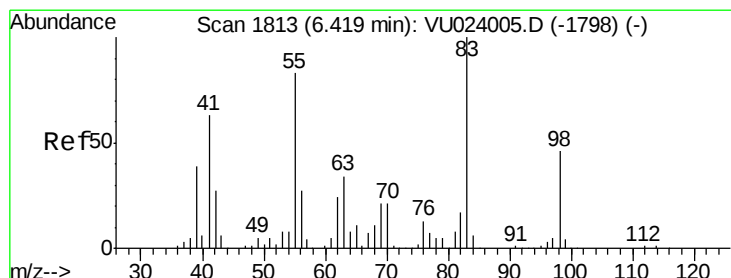
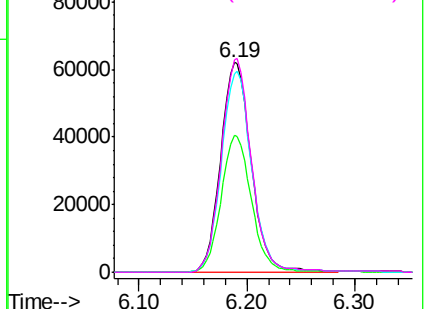
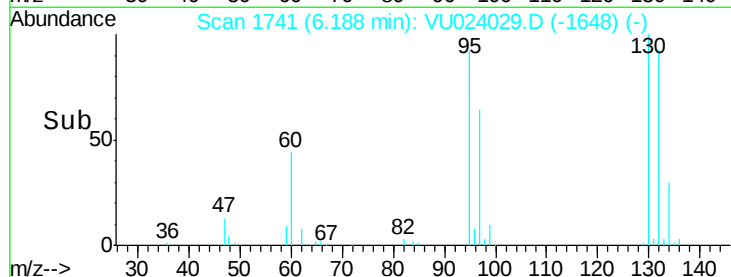


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 53.17 ug/L

RT: 6.42 min Scan# 1813

Delta R.T. 0.00 min

Lab File: VU024029.D

Acq: 23 May 2018 10:12

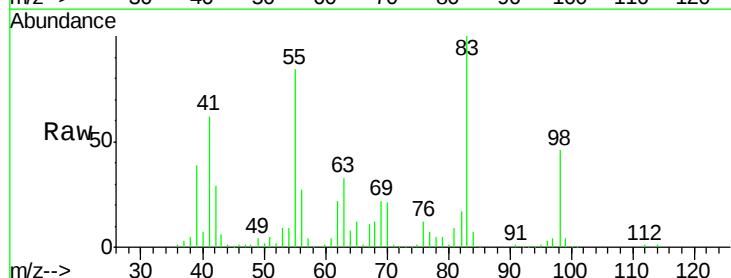
Tgt Ion: 83 Resp: 180595

Ion Ratio Lower Upper

83 100

55 85.7 67.2 100.8

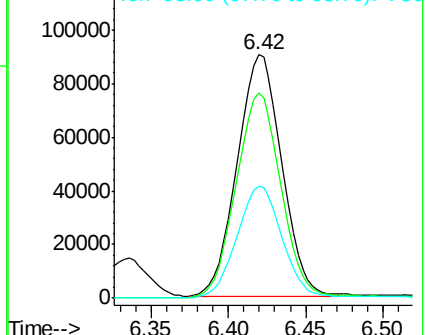
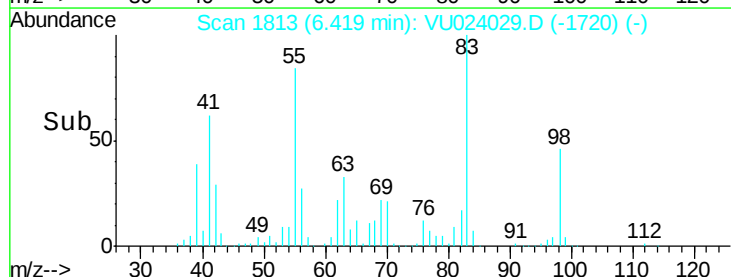
98 47.1 36.6 54.8

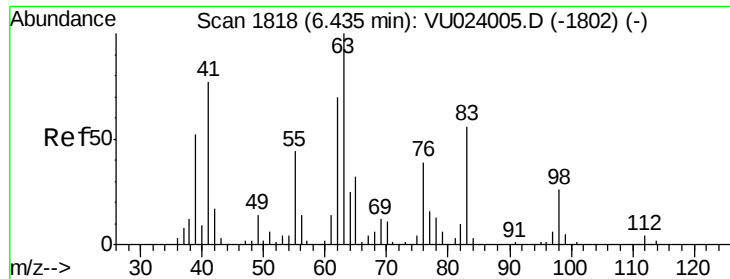


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 52.56 ug/L

RT: 6.44 min Scan# 1818

Delta R.T. 0.00 min

Lab File: VU024029.D

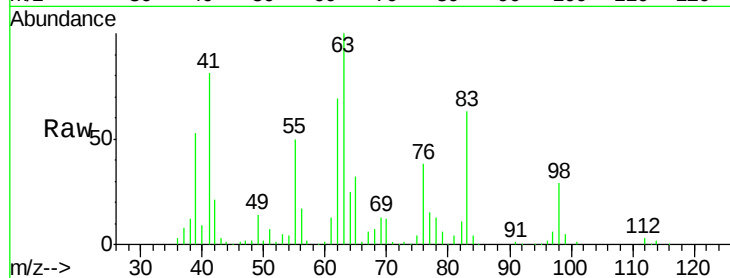
Acq: 23 May 2018 10:12

Tgt Ion: 63 Resp: 145944

Ion Ratio Lower Upper

63 100

112 3.7 3.2 4.8



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 112.00 (111.70 to 112.70): V

80000

60000

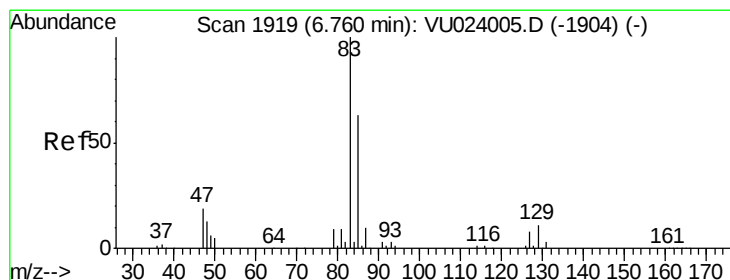
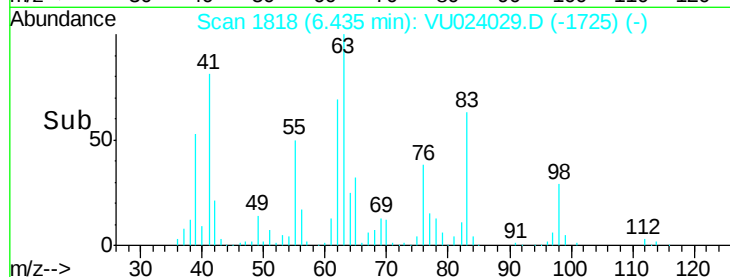
40000

20000

0

6.35 6.40 6.45 6.50 6.55

Time-->



#38

Bromodichloromethane

Concen: 53.03 ug/L

RT: 6.76 min Scan# 1919

Delta R.T. -0.00 min

Lab File: VU024029.D

Acq: 23 May 2018 10:12

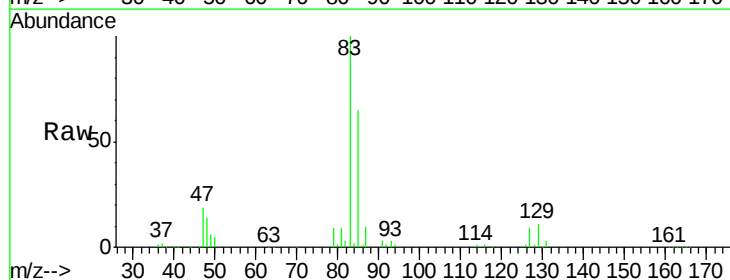
Tgt Ion: 83 Resp: 174508

Ion Ratio Lower Upper

83 100

85 64.9 45.8 85.0

127 8.5 6.6 10.0



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 127.00 (126.70 to 127.70): V

120000

100000

80000

60000

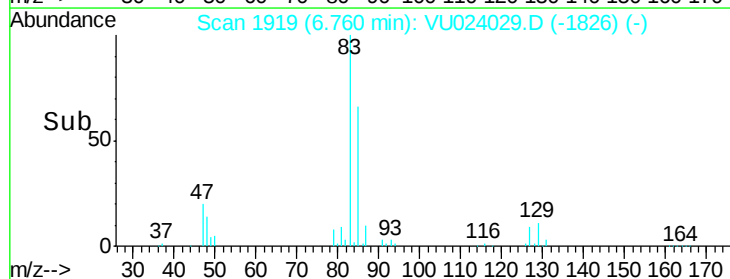
40000

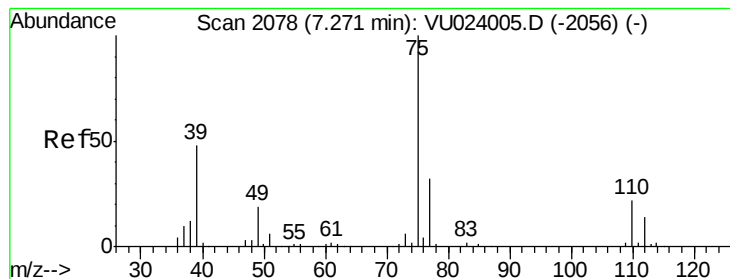
20000

0

6.70 6.80

Time-->





#39

cis-1,3-Dichloropropene

Concen: 54.72 ug/L

RT: 7.27 min Scan# 2078

Delta R.T. -0.00 min

Lab File: VU024029.D

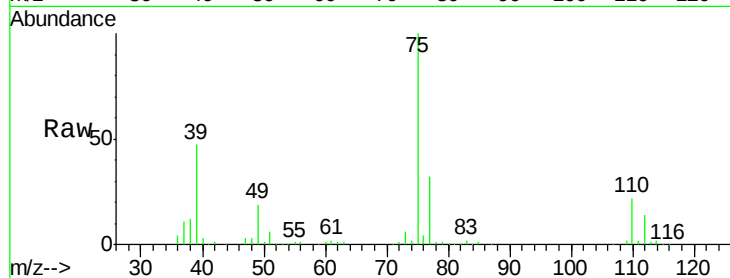
Acq: 23 May 2018 10:12

Tgt Ion: 75 Resp: 200540

Ion Ratio Lower Upper

75 100

77 31.5 22.5 41.9



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

7.27

120000

100000

80000

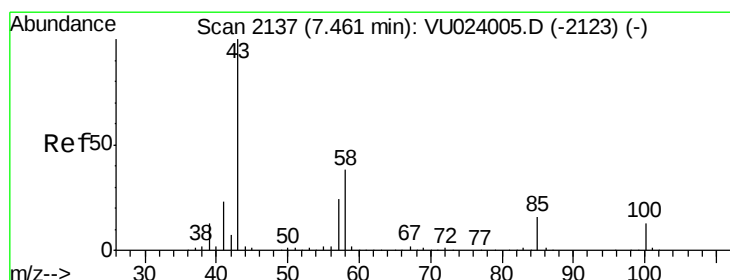
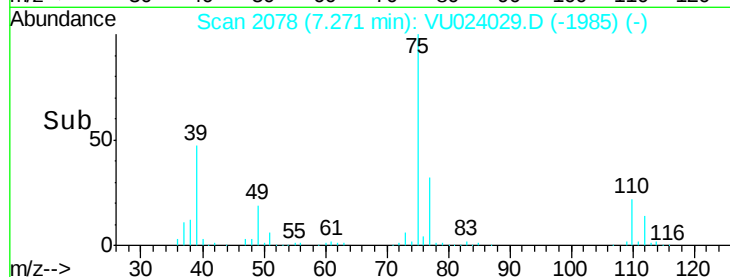
60000

40000

20000

0

Time-->



#40

4-Methyl-2-pentanone

Concen: 106.08 ug/L

RT: 7.46 min Scan# 2138

Delta R.T. 0.00 min

Lab File: VU024029.D

Acq: 23 May 2018 10:12

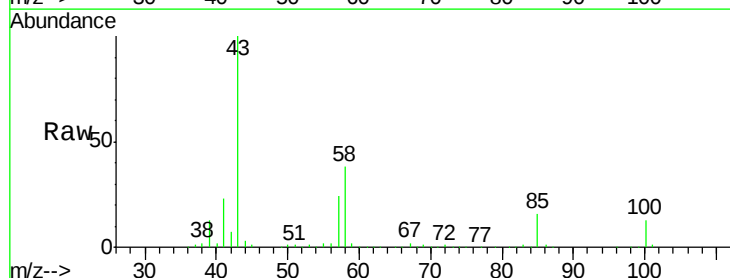
Tgt Ion: 43 Resp: 414989

Ion Ratio Lower Upper

43 100

58 38.0 31.4 47.2

100 13.1 11.2 16.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 100.00 (99.70 to 100.70): VU0

7.46

300000

250000

200000

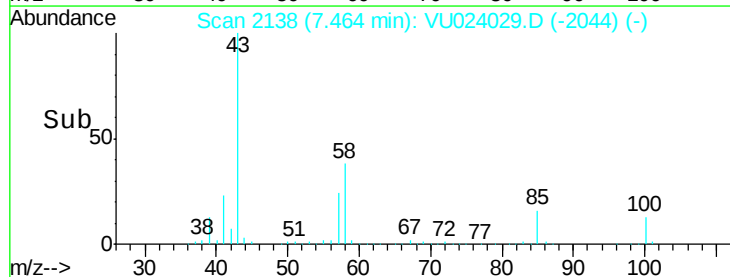
150000

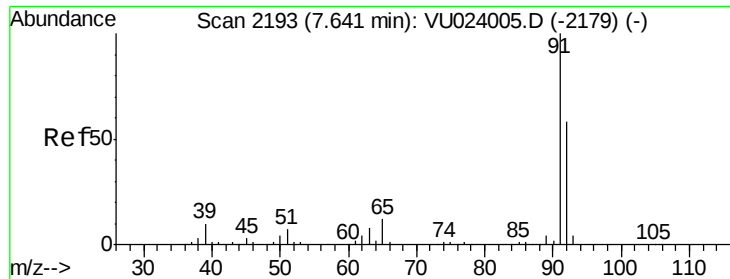
100000

50000

0

Time-->





#42

Toluene

Concen: 53.35 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU024029.D

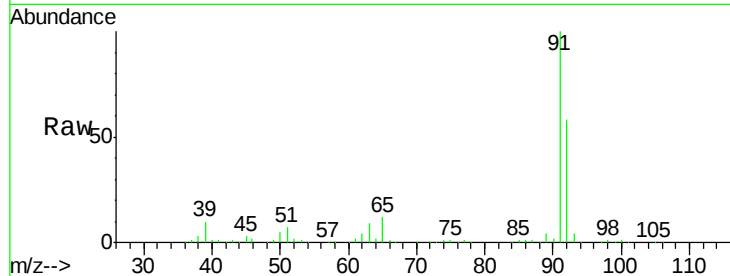
Acq: 23 May 2018 10:12

Tgt Ion: 91 Resp: 521739

Ion Ratio Lower Upper

91 100

92 58.1 40.0 74.4



Abundance Ion 91.00 (90.70 to 91.70): VU024005.D (-2179) (-)

Ion 92.00 (91.70 to 92.70): VU024005.D (-2179) (-)

7.64

300000

250000

200000

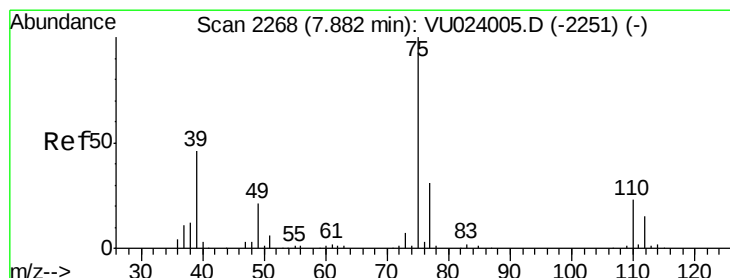
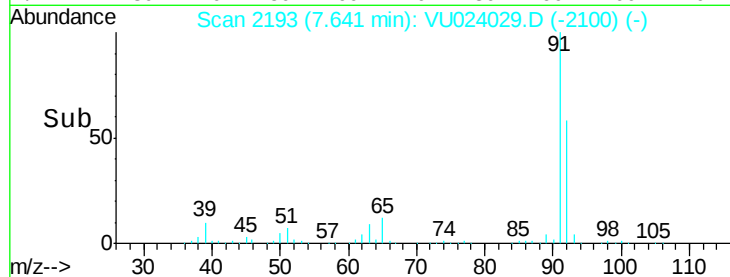
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 55.30 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VU024029.D

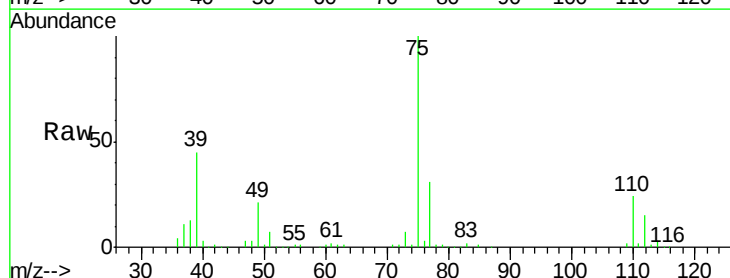
Acq: 23 May 2018 10:12

Tgt Ion: 75 Resp: 186635

Ion Ratio Lower Upper

75 100

77 31.4 22.3 41.5



Abundance Ion 75.00 (74.70 to 75.70): VU024005.D (-2251) (-)

Ion 77.00 (76.70 to 77.70): VU024005.D (-2251) (-)

7.88

120000

100000

80000

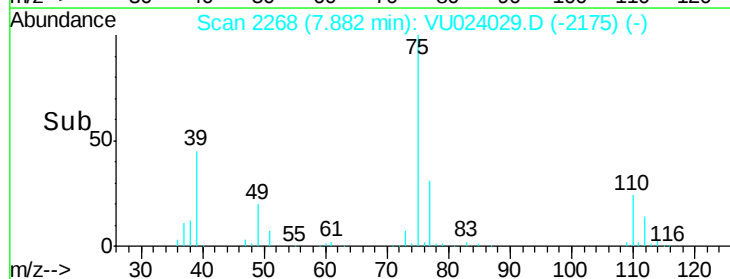
60000

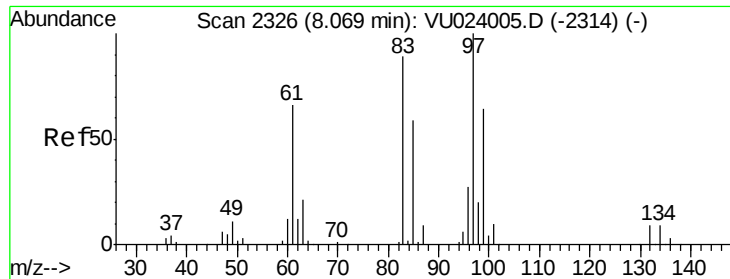
40000

20000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 51.46 ug/L

RT: 8.07 min Scan# 2327

Delta R.T. 0.00 min

Lab File: VU024029.D

Acq: 23 May 2018 10:12

Tgt Ion: 97 Resp: 128350

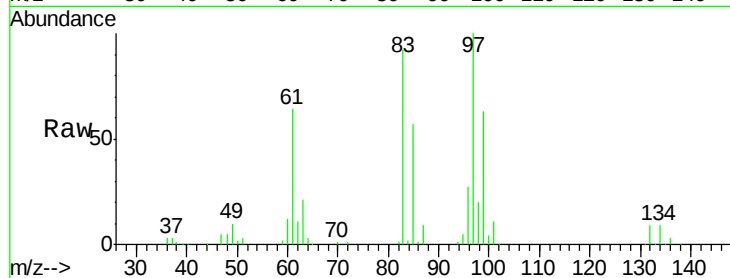
Ion	Ratio	Lower	Upper
97	100		
99	62.9	43.3	80.3
83	91.7	61.9	114.9
85	57.3	39.8	74.0

97 100

99 62.9 43.3 80.3

83 91.7 61.9 114.9

85 57.3 39.8 74.0



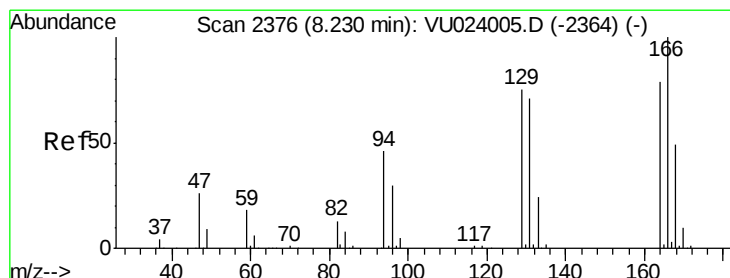
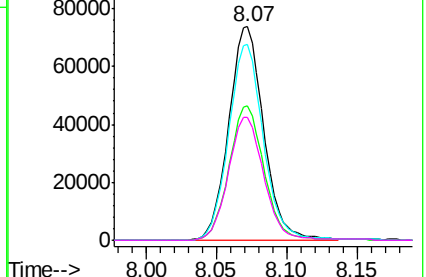
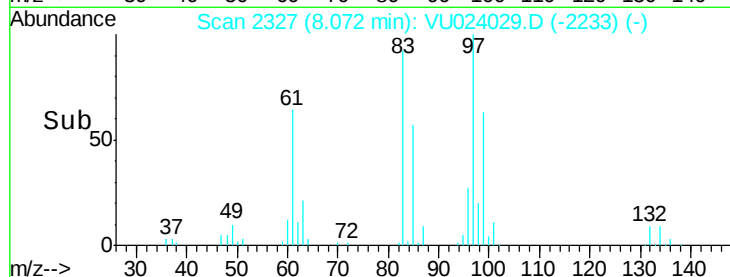
Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Time-->



#46

Tetrachloroethene

Concen: 49.53 ug/L

RT: 8.23 min Scan# 2376

Delta R.T. 0.00 min

Lab File: VU024029.D

Acq: 23 May 2018 10:12

Tgt Ion: 164 Resp: 96925

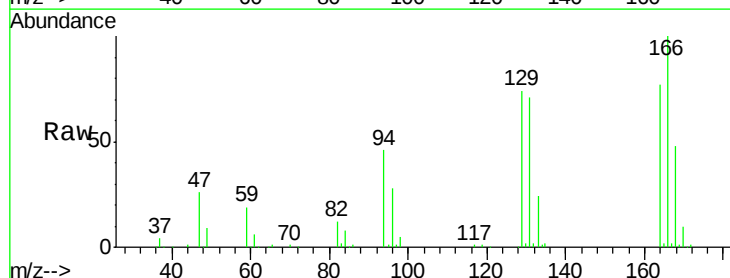
Ion	Ratio	Lower	Upper
164	100		
129	96.9	65.3	121.3
131	92.5	63.0	117.0
166	130.2	87.4	162.2

164 100

129 96.9 65.3 121.3

131 92.5 63.0 117.0

166 130.2 87.4 162.2



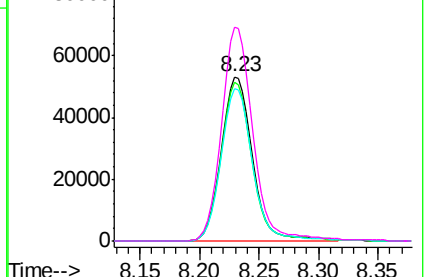
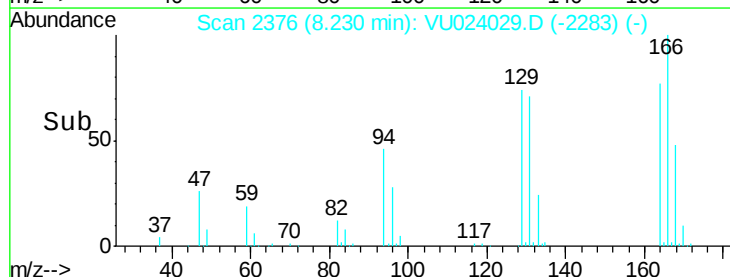
Abundance Ion 164.00 (163.70 to 164.70): V

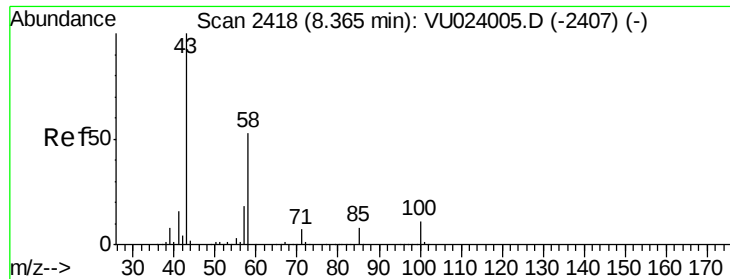
Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

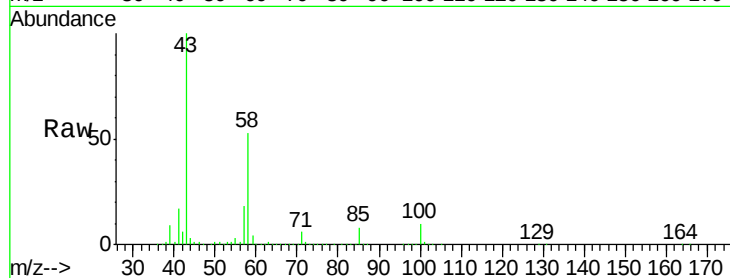
Time-->



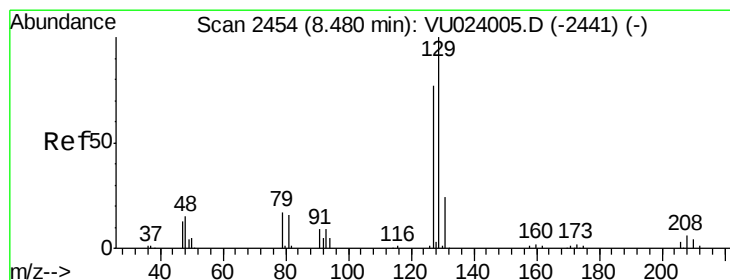
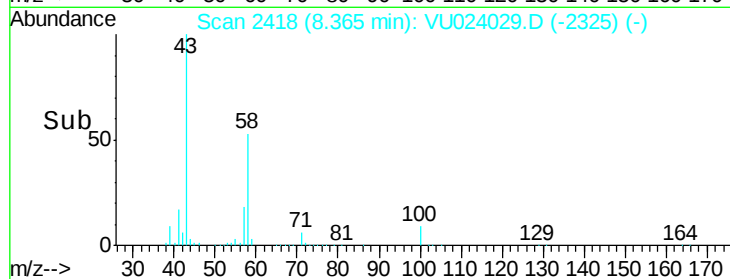
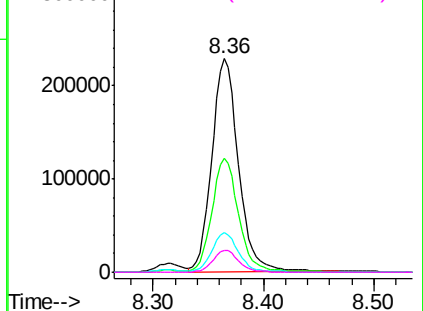


#48
 2-Hexanone
 Concen: 119.69 ug/L
 RT: 8.36 min Scan# 2418
 Delta R.T. 0.00 min
 Lab File: VU024029.D
 Acq: 23 May 2018 10:12

Tgt Ion:	43	Resp:	380269
Ion	Ratio	Lower	Upper
43	100		
58	53.4	42.6	63.8
57	18.8	14.9	22.3
100	10.1	8.5	12.7

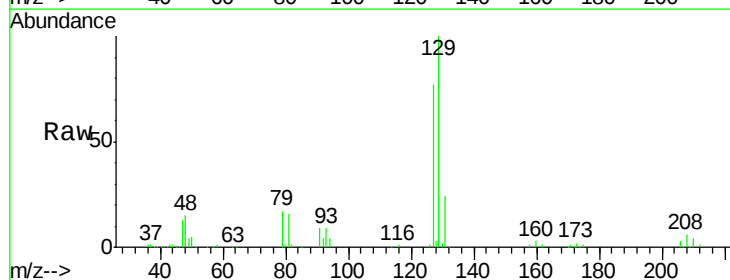


Abundance Ion 43.00 (42.70 to 43.70): VU024029.D (-2325) (-)
 Ion 58.00 (57.70 to 58.70): VU024029.D (-2325) (-)
 Ion 57.00 (56.70 to 57.70): VU024029.D (-2325) (-)
 Ion 100.00 (99.70 to 100.70): VU024029.D (-2325) (-)

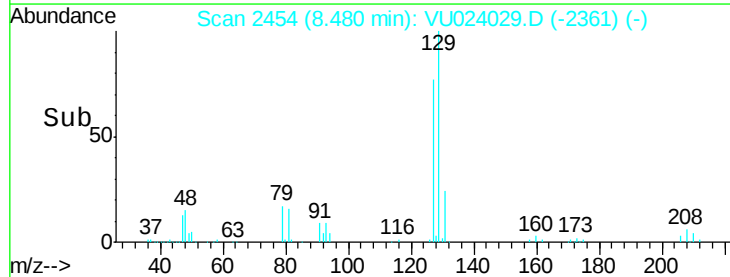
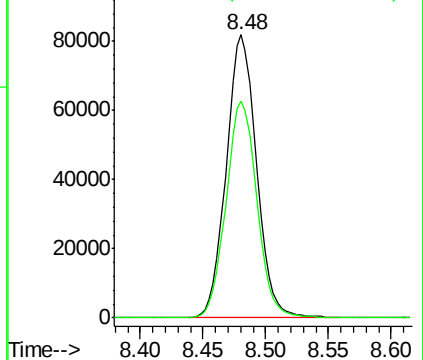


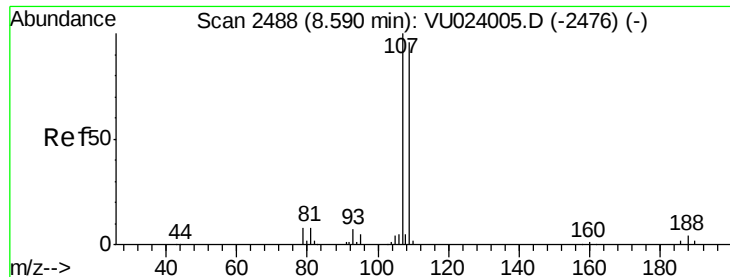
#49
 Dibromochloromethane
 Concen: 51.93 ug/L
 RT: 8.48 min Scan# 2454
 Delta R.T. 0.00 min
 Lab File: VU024029.D
 Acq: 23 May 2018 10:12

Tgt Ion:	129	Resp:	137718
Ion	Ratio	Lower	Upper
129	100		
127	76.7	53.5	99.5



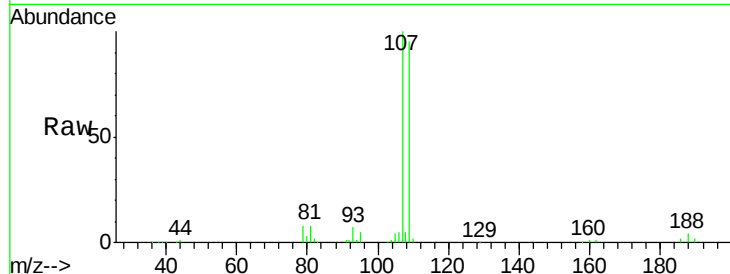
Abundance Ion 129.00 (128.70 to 129.70): VU024029.D (-2361) (-)
 Ion 127.00 (126.70 to 127.70): VU024029.D (-2361) (-)



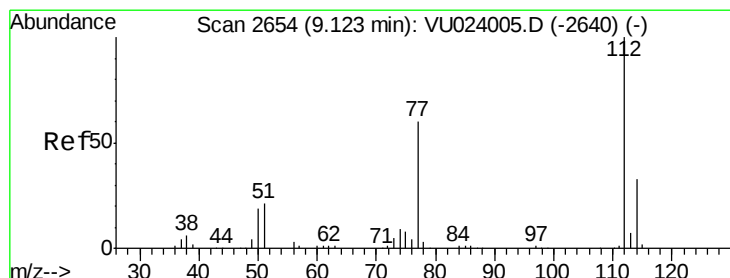
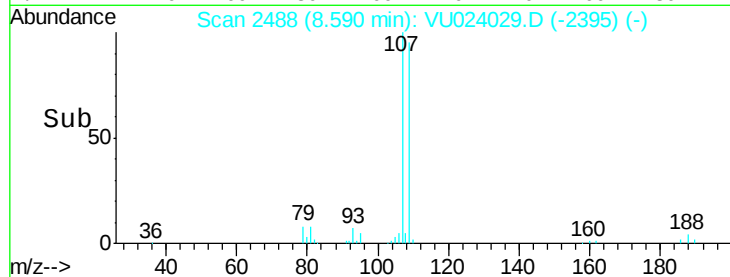
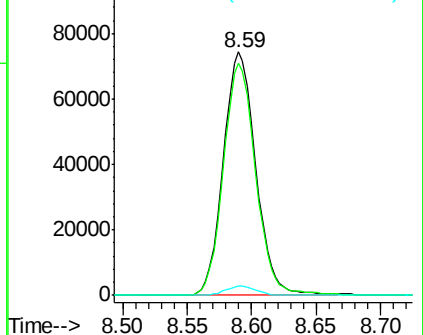


#50
1,2-Dibromoethane
Concen: 51.03 ug/L
RT: 8.59 min Scan# 2488
Delta R.T. 0.00 min
Lab File: VU024029.D
Acq: 23 May 2018 10:12

Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.4	66.3	123.1
188	3.7	3.1	4.7

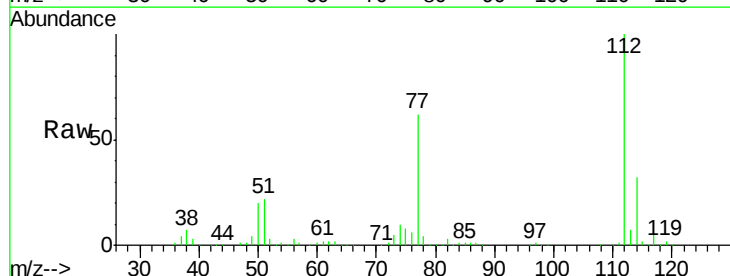


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

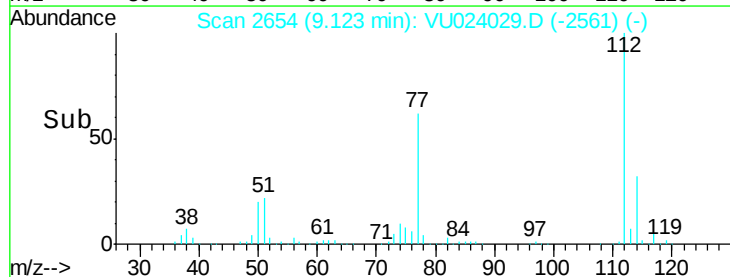
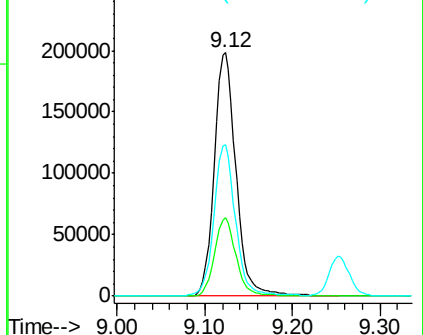


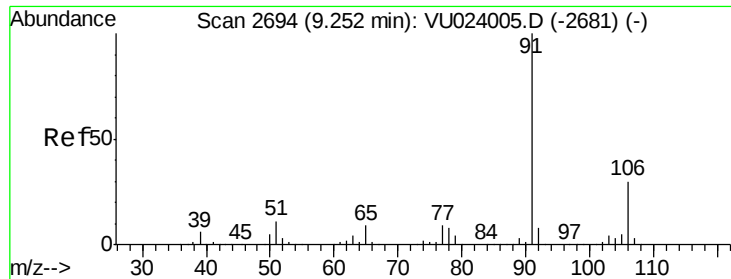
#51
Chlorobenzene
Concen: 51.55 ug/L
RT: 9.12 min Scan# 2654
Delta R.T. -0.00 min
Lab File: VU024029.D
Acq: 23 May 2018 10:12

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.7	42.1
77	62.3	46.7	70.1



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 54.78 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VU024029.D

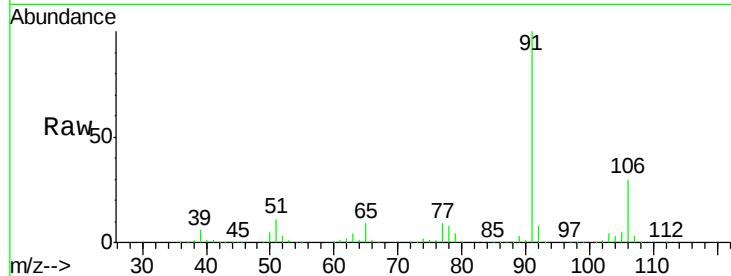
Acq: 23 May 2018 10:12

Tgt Ion: 91 Resp: 577526

Ion Ratio Lower Upper

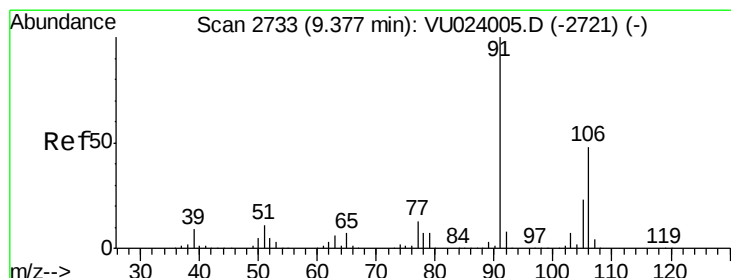
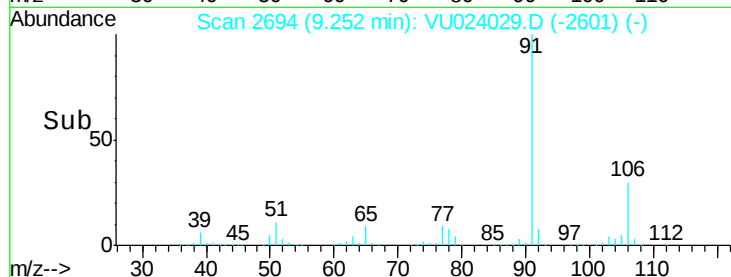
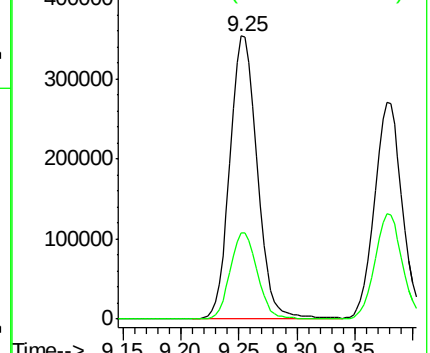
91 100

106 30.3 21.3 39.6



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V



#53

m,p-Xylene

Concen: 53.81 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU024029.D

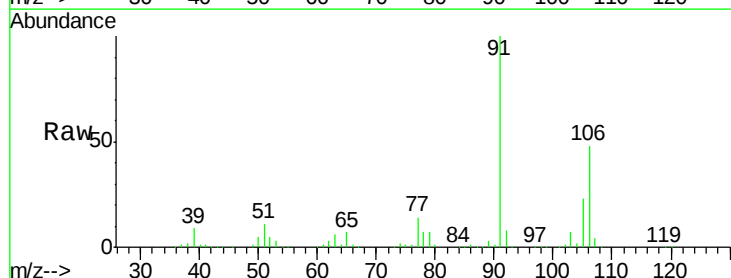
Acq: 23 May 2018 10:12

Tgt Ion: 106 Resp: 214998

Ion Ratio Lower Upper

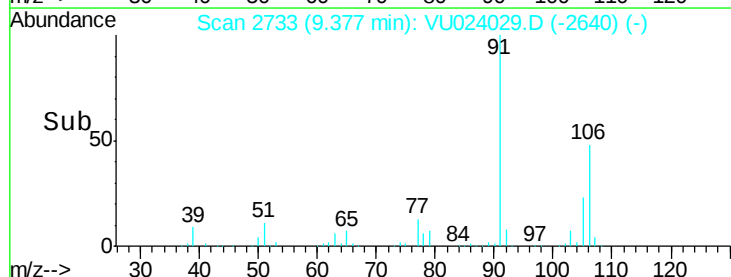
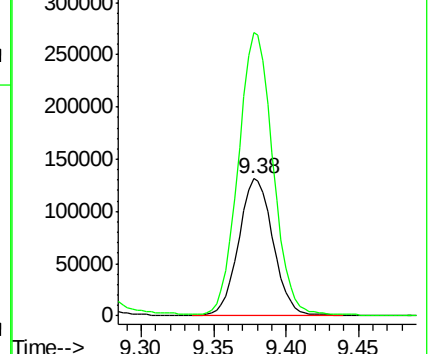
106 100

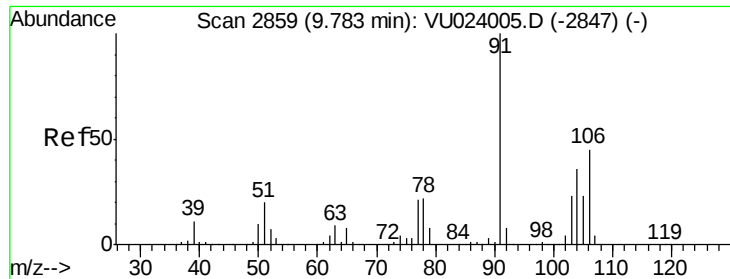
91 206.9 141.8 263.4



Abundance Ion 106.00 (105.70 to 106.70): V

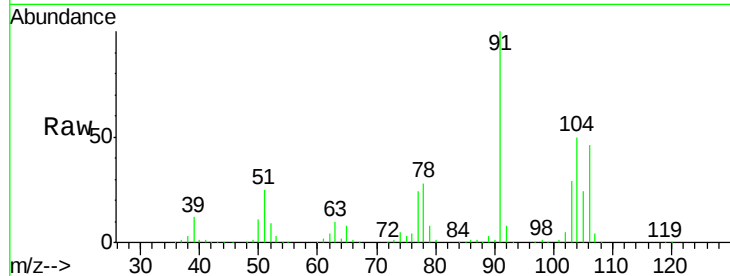
Ion 91.00 (90.70 to 91.70): VU0



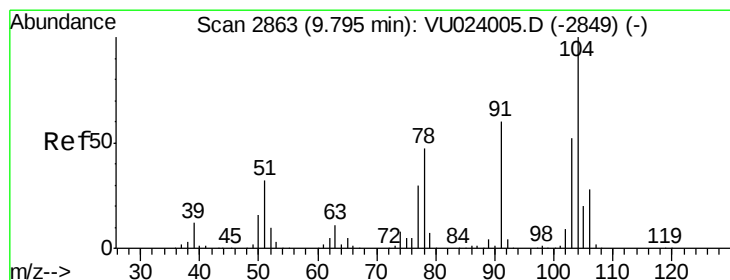
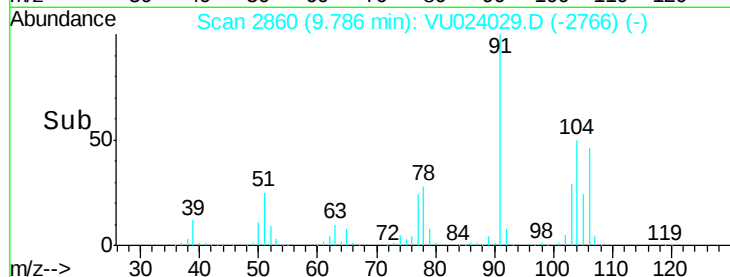
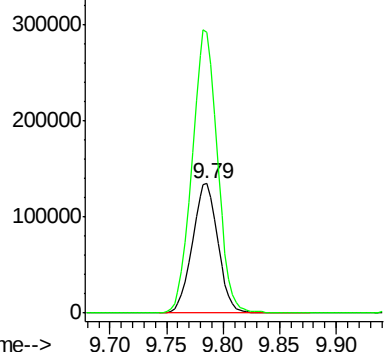


#54
o-xylene
Concen: 54.70 ug/L
RT: 9.79 min Scan# 2860
Delta R.T. 0.00 min
Lab File: VU024029.D
Acq: 23 May 2018 10:12

Tgt Ion:106 Resp: 212358
Ion Ratio Lower Upper
106 100
91 216.9 151.1 280.5

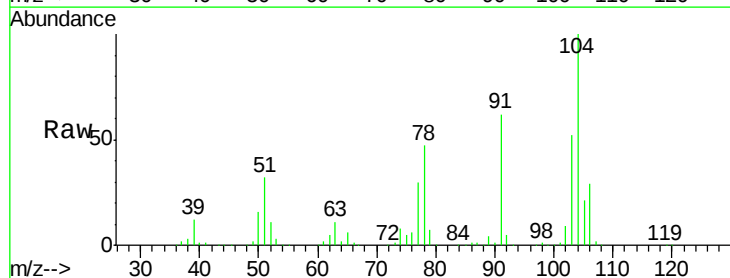


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

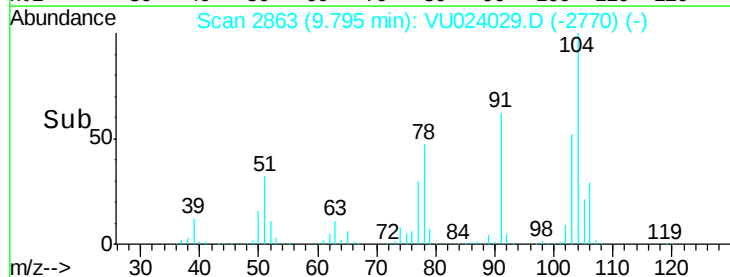
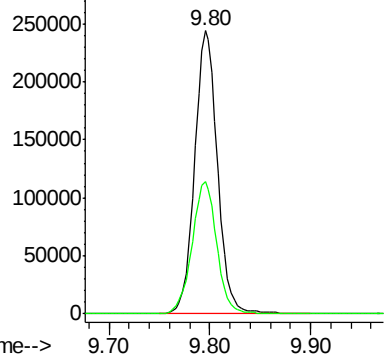


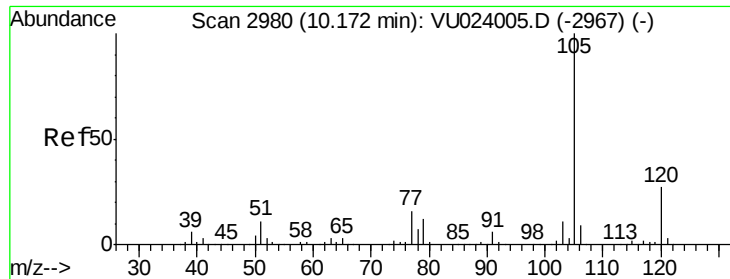
#55
Styrene
Concen: 56.96 ug/L
RT: 9.80 min Scan# 2863
Delta R.T. -0.00 min
Lab File: VU024029.D
Acq: 23 May 2018 10:12

Tgt Ion:104 Resp: 386572
Ion Ratio Lower Upper
104 100
78 46.6 32.0 59.4



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 54.83 ug/L

RT: 10.17 min Scan# 2980

Delta R.T. 0.00 min

Lab File: VU024029.D

Acq: 23 May 2018 10:12

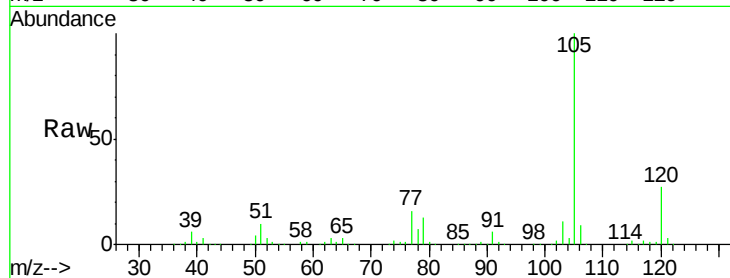
Tgt Ion: 105 Resp: 559806

Ion Ratio Lower Upper

105 100

120 26.5 21.1 31.7

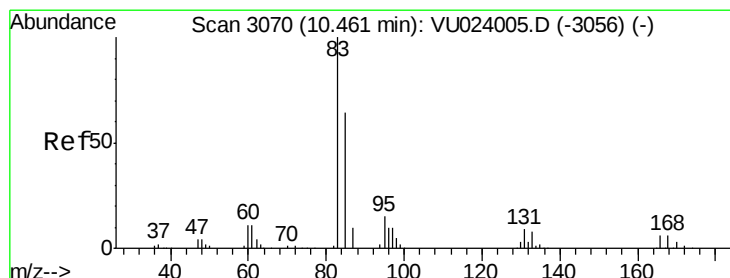
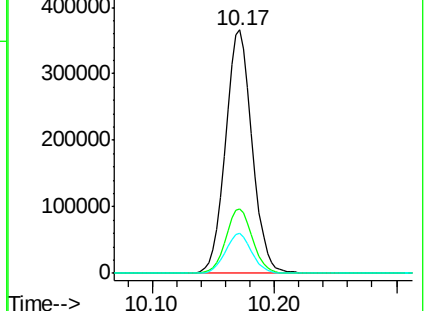
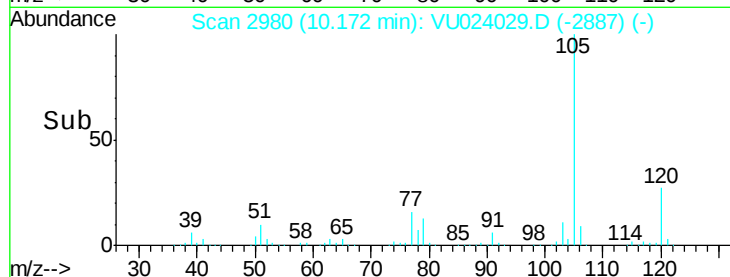
77 16.5 12.6 18.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 50.63 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. -0.00 min

Lab File: VU024029.D

Acq: 23 May 2018 10:12

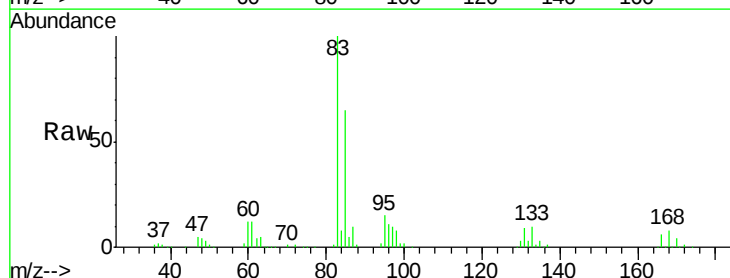
Tgt Ion: 83 Resp: 227307

Ion Ratio Lower Upper

83 100

85 64.6 45.2 84.0

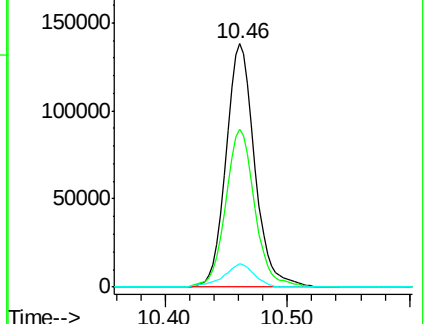
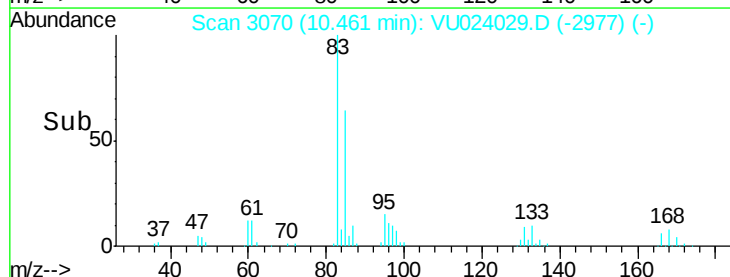
131 9.4 7.9 11.9

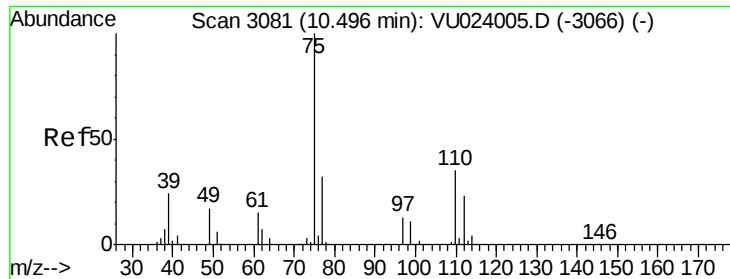


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 50.72 ug/L

RT: 10.50 min Scan# 3081

Delta R.T. 0.00 min

Lab File: VU024029.D

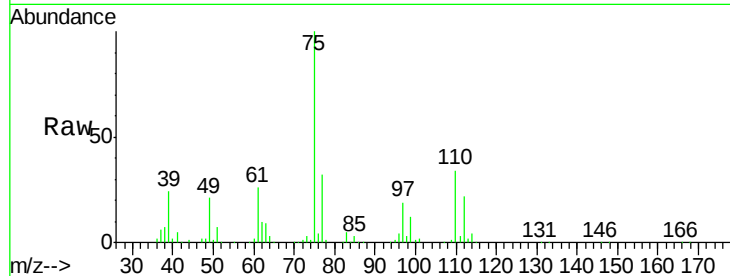
Acq: 23 May 2018 10:12

Tgt Ion: 75 Resp: 182761

Ion Ratio Lower Upper

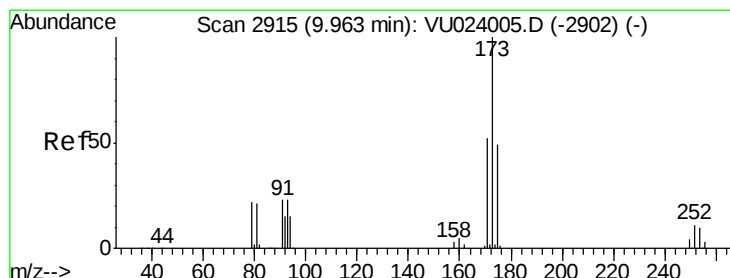
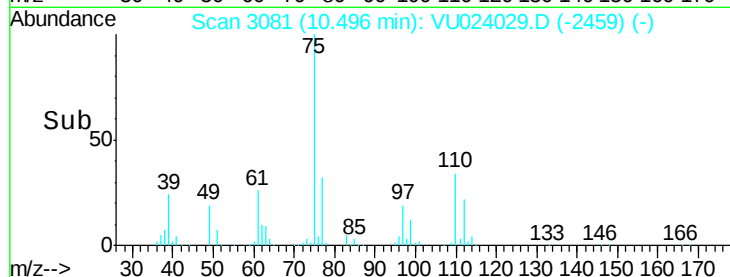
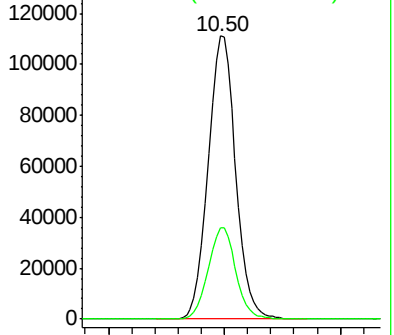
75 100

77 32.2 26.2 39.4



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#61

Bromoform

Concen: 48.83 ug/L

RT: 9.96 min Scan# 2915

Delta R.T. 0.00 min

Lab File: VU024029.D

Acq: 23 May 2018 10:12

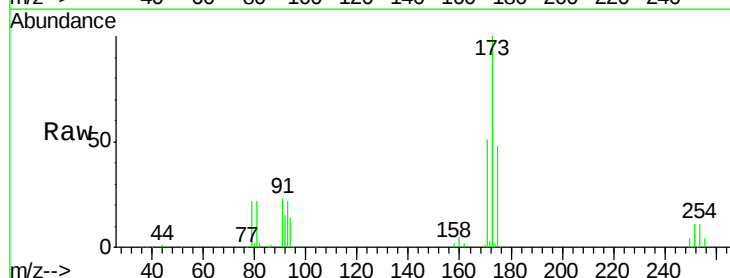
Tgt Ion: 173 Resp: 103606

Ion Ratio Lower Upper

173 100

175 47.7 38.7 58.1

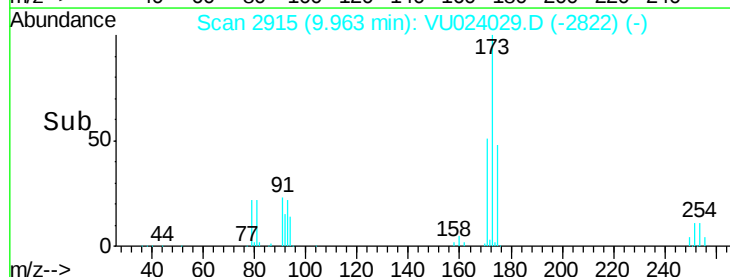
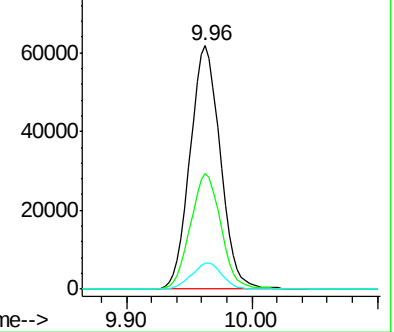
254 10.8 8.9 13.3

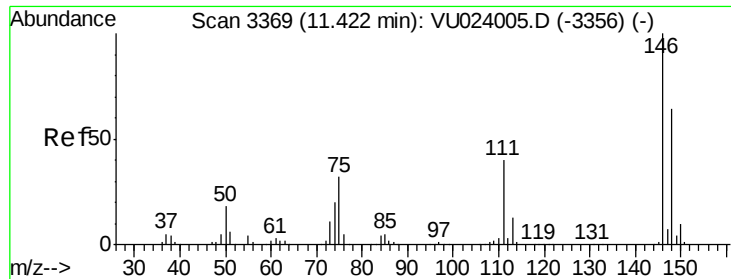


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V





#62

1,3-Dichlorobenzene

Concen: 51.01 ug/L

RT: 11.42 min Scan# 3369

Delta R.T. 0.00 min

Lab File: VU024029.D

Acq: 23 May 2018 10:12

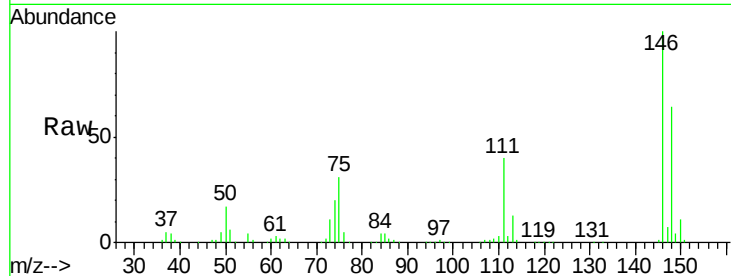
Tgt Ion:146 Resp: 266756

Ion Ratio Lower Upper

146 100

111 40.2 27.6 51.4

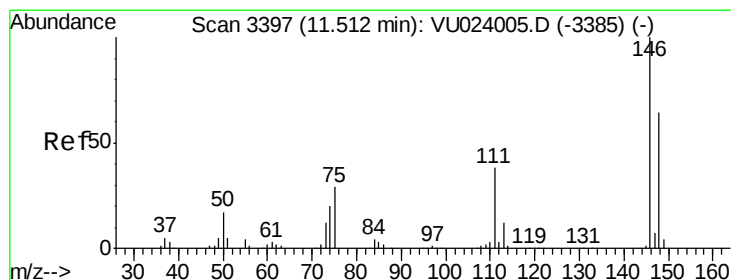
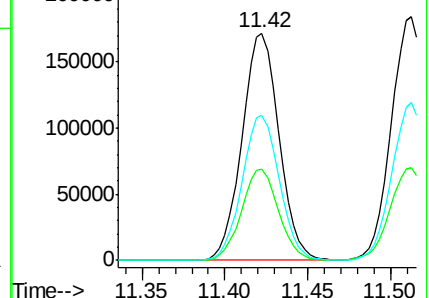
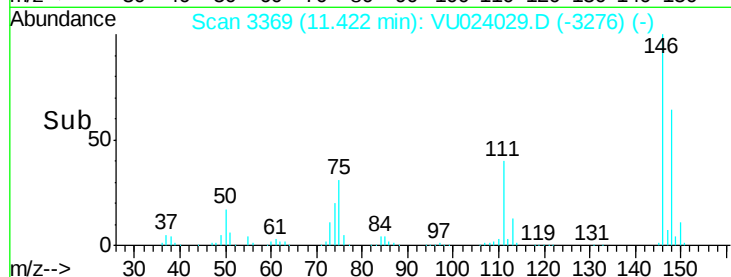
148 64.1 45.4 84.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 51.61 ug/L

RT: 11.51 min Scan# 3397

Delta R.T. 0.00 min

Lab File: VU024029.D

Acq: 23 May 2018 10:12

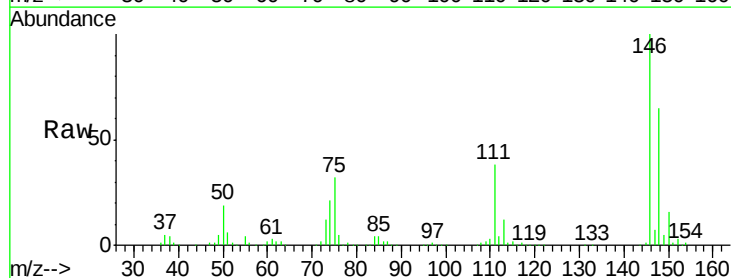
Tgt Ion:146 Resp: 285998

Ion Ratio Lower Upper

146 100

111 38.0 27.0 50.2

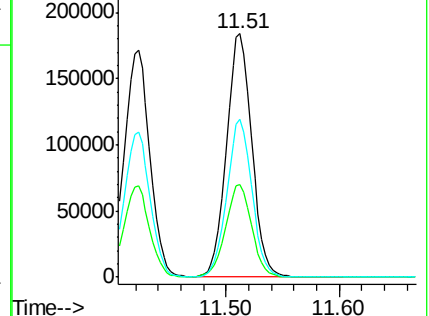
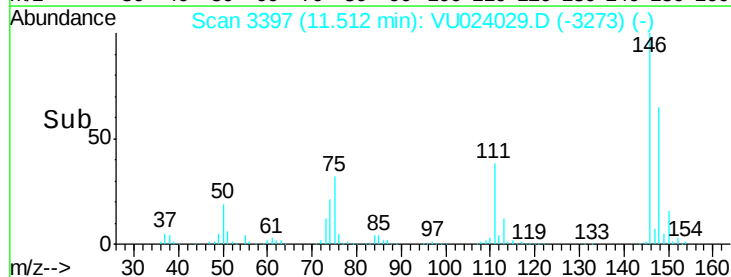
148 64.6 45.2 84.0

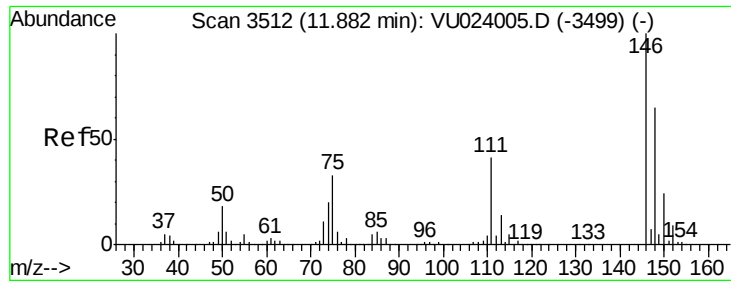


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 50.48 ug/L

RT: 11.88 min Scan# 3512

Delta R.T. 0.00 min

Lab File: VU024029.D

Acq: 23 May 2018 10:12

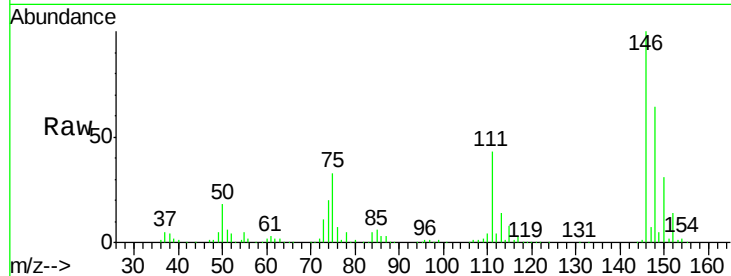
Tgt Ion: 146 Resp: 284672

Ion Ratio Lower Upper

146 100

111 42.7 32.1 48.1

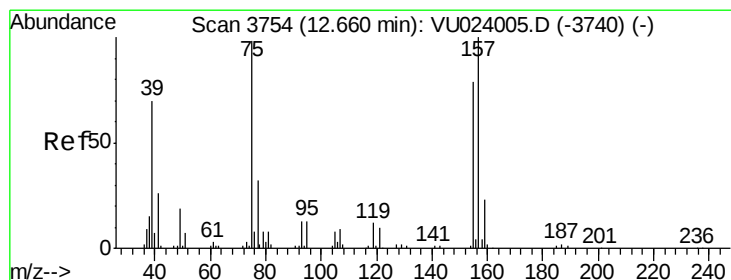
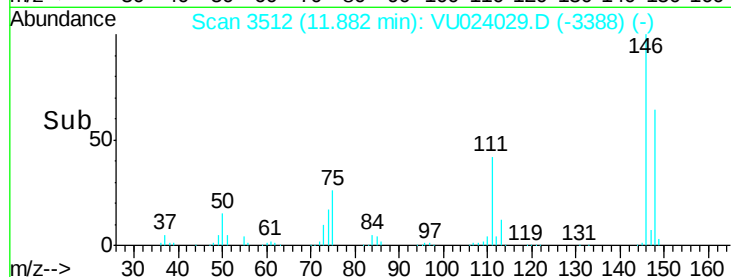
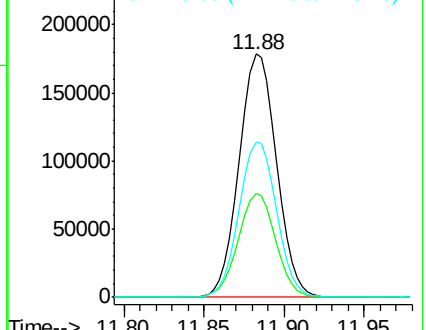
148 64.0 49.8 74.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 48.97 ug/L

RT: 12.66 min Scan# 3754

Delta R.T. 0.00 min

Lab File: VU024029.D

Acq: 23 May 2018 10:12

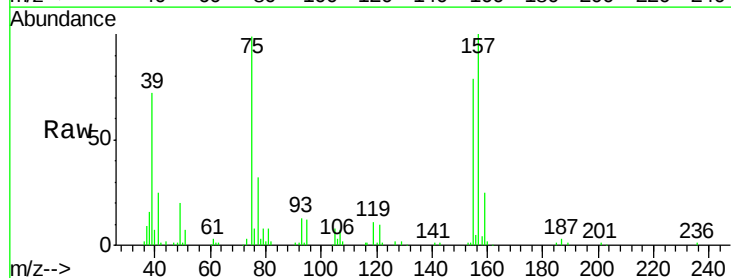
Tgt Ion: 75 Resp: 48709

Ion Ratio Lower Upper

75 100

155 79.8 69.4 104.2

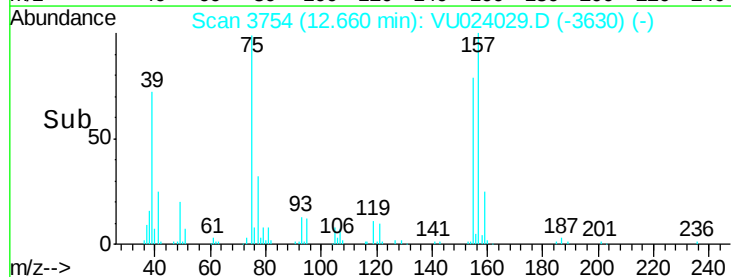
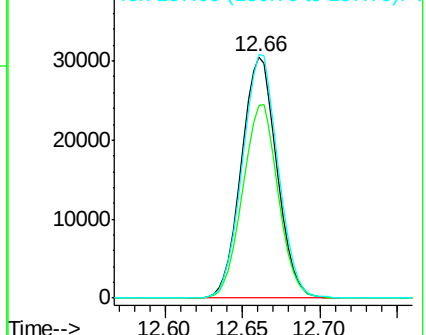
157 100.9 88.4 132.6

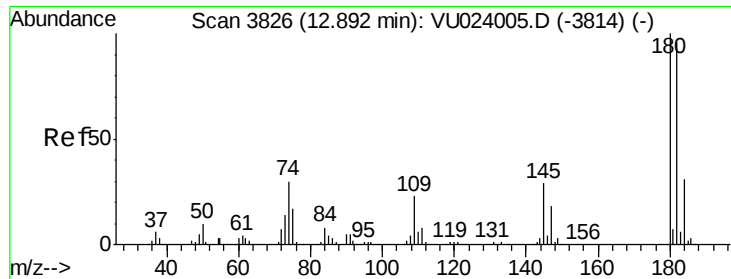


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

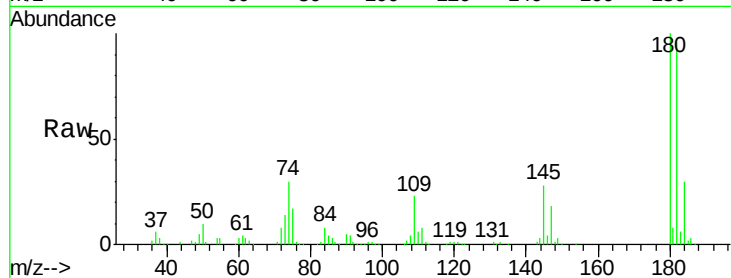
Ion 157.00 (156.70 to 157.70): V





#67
 1,3,5-Trichlorobenzene
 Concen: 51.94 ug/L
 RT: 12.89 min Scan# 3826
 Delta R.T. 0.00 min
 Lab File: VU024029.D
 Acq: 23 May 2018 10:12

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.9	77.4	116.2
184	30.2	24.2	36.4
145	28.3	22.5	33.7

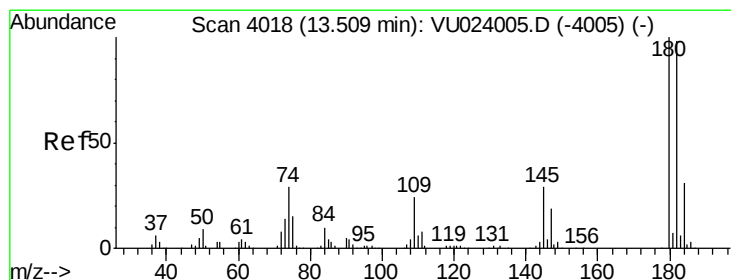
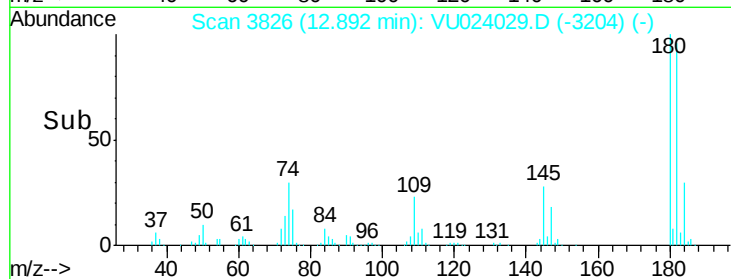
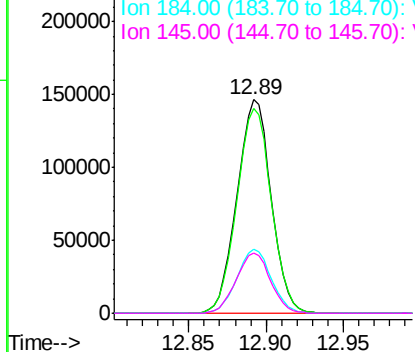


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

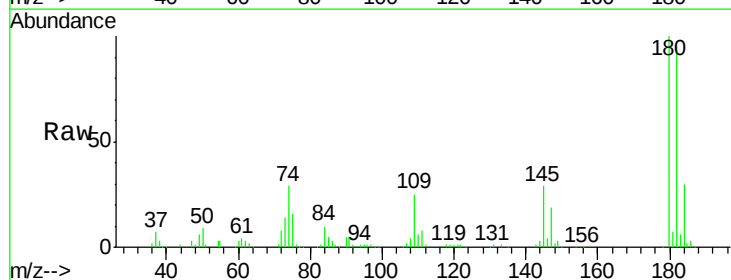
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 52.71 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. -0.00 min
 Lab File: VU024029.D
 Acq: 23 May 2018 10:12

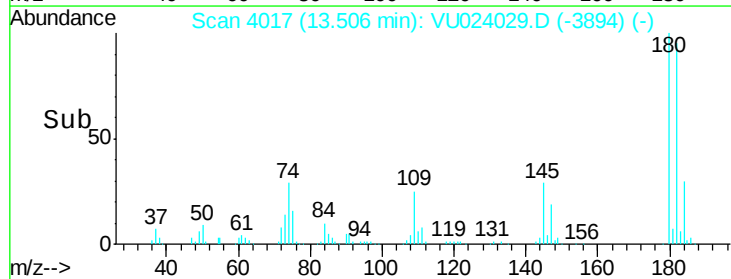
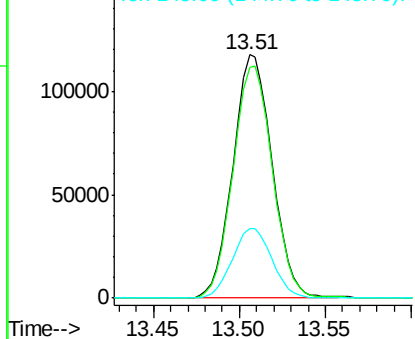
Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.1	114.1
145	28.9	23.0	34.4

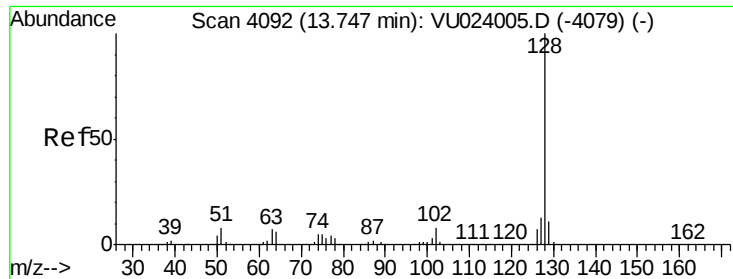


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

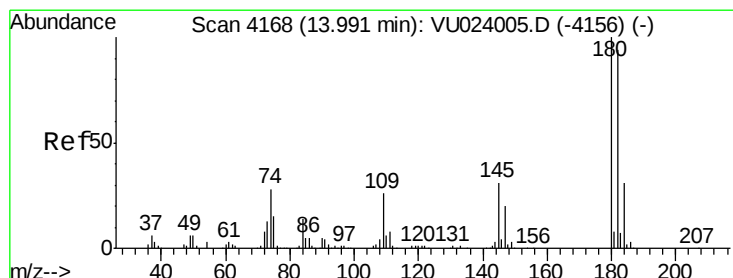
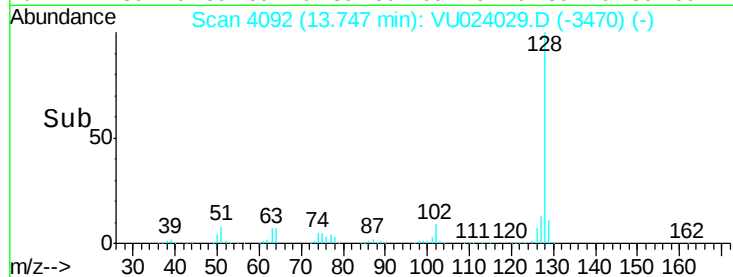
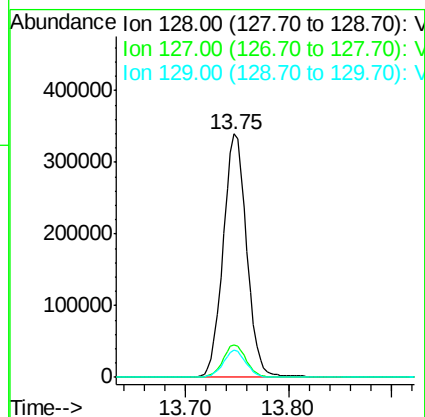
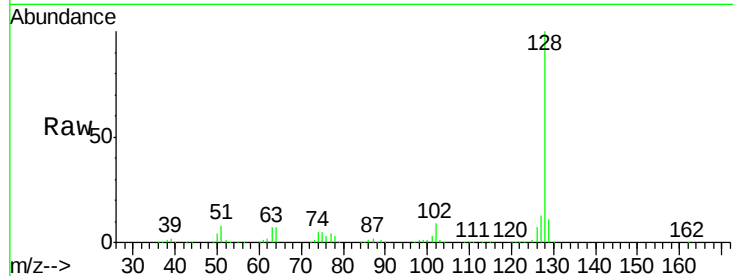
Ion 145.00 (144.70 to 145.70): V





#69
Naphthalene
Concen: 53.68 ug/L
RT: 13.75 min Scan# 4092
Delta R.T. 0.00 min
Lab File: VU024029.D
Acq: 23 May 2018 10:12

Tgt Ion:128 Resp: 541246
Ion Ratio Lower Upper
128 100
127 13.2 10.3 15.5
129 10.7 8.6 12.8



#70
1,2,3-Trichlorobenzene
Concen: 53.00 ug/L
RT: 13.99 min Scan# 4168
Delta R.T. 0.00 min
Lab File: VU024029.D
Acq: 23 May 2018 10:12

Tgt Ion:180 Resp: 200828
Ion Ratio Lower Upper
180 100
182 96.2 75.6 113.4
145 31.0 23.9 35.9

