

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072418\
 Data File : VN050029.D
 Acq On : 24 Jul 2018 18:48
 Operator : MD\SY
 Sample : PB111391ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 25 00:50:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 24 06:27:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	598517	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1003203	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	824456	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	285612	50.00	ug/l	0.00

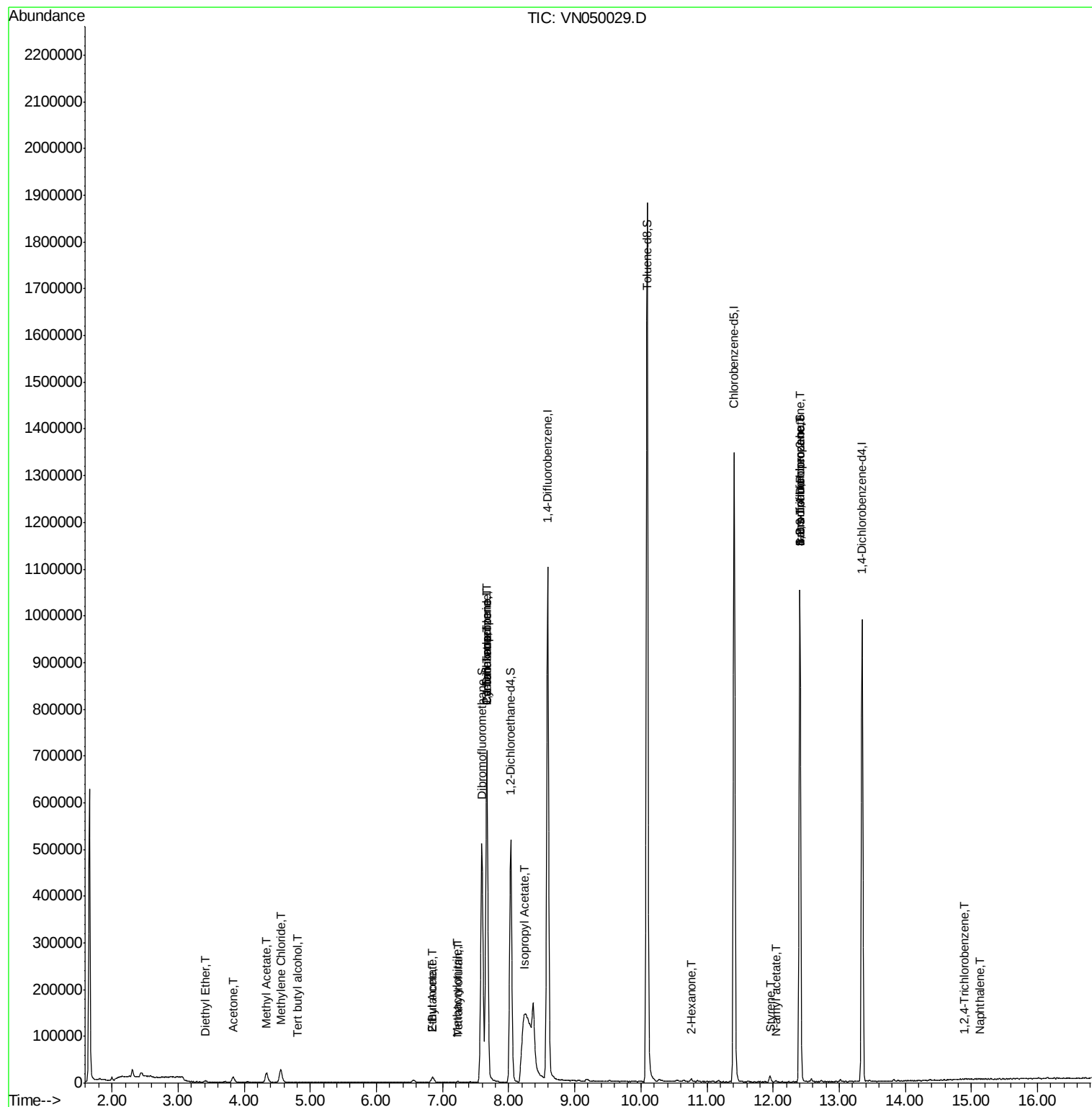
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	443818	53.15	ug/l	0.00
Spiked Amount			Recovery	=	106.30%	
35) Dibromofluoromethane	7.60	113	389671	47.57	ug/l	0.00
Spiked Amount			Recovery	=	95.14%	
50) Toluene-d8	10.09	98	1350108	44.83	ug/l	0.00
Spiked Amount			Recovery	=	89.66%	
62) 4-Bromofluorobenzene	12.40	95	358632	36.17	ug/l	0.00
Spiked Amount			Recovery	=	72.34%	

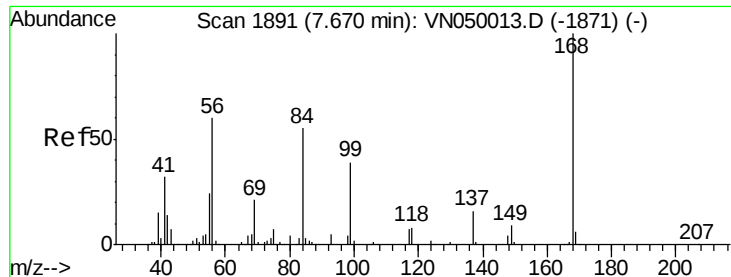
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	699	Below Cal	#	65
8) Diethyl Ether	3.41	74	1233	0.29	ug/l	72
11) Tert butyl alcohol	4.80	59	635	1.03	ug/l	# 72
16) Acetone	3.83	43	19156	5.49	ug/l	90
18) Methyl Acetate	4.34	43	40630	3.81	ug/l	96
20) Methylene Chloride	4.55	84	20411	1.54	ug/l	95
25) 2-Butanone	6.85	43	14136	4.44	ug/l	94
29) Tetrahydrofuran	7.24	42	2337	1.14	ug/l	# 56
31) Cyclohexane	7.67	56	11198	0.91	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	44392	3.93	ug/l	# 47
37) Ethyl Acetate	6.85	43	14136	1.79	ug/l	# 67
38) Carbon Tetrachloride	7.67	117	55779	4.65	ug/l	# 16
41) Methacrylonitrile	7.21	41	295	2.82	ug/l	# 10
43) Isopropyl Acetate	8.24	43	149998	9.17	ug/l	# 63
59) 2-Hexanone	10.75	43	5240	6.08	ug/l	75
70) Styrene	11.97	104	177	0.93	ug/l	# 51
71) Bromoform	12.41	173	2975	0.51	ug/l	# 1
74) N-amyl acetate	12.04	43	2466	0.36	ug/l	# 44
75) 1,1,2,2-Tetrachloroethane	12.41	83	131	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.41	75	175724	33.11	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.41	75	175724	105.01	ug/l	# 13
93) 1,2,4-Trichlorobenzene	14.90	180	105	3.10	ug/l	# 70
95) Naphthalene	15.14	128	486	4.45	ug/l	# 69

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050029.D

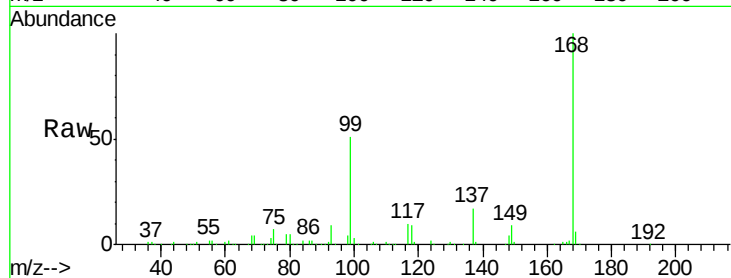
Acq: 24 Jul 2018 18:48

Tot Ion:168 Resp: 598517

Ion Ratio Lower Upper

168 100

99 51.3 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): VN050029.D (-1798) (-)

Ion 98.90 (98.60 to 99.60): VN050029.D (-1798) (-)

7.67

250000

200000

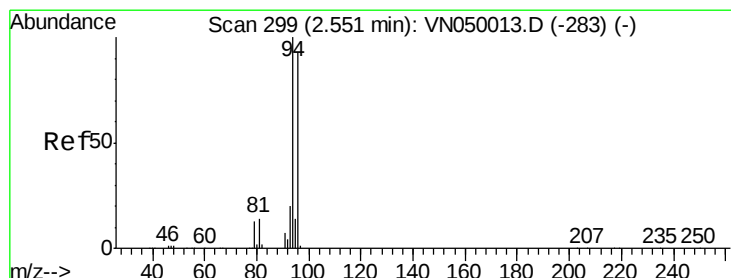
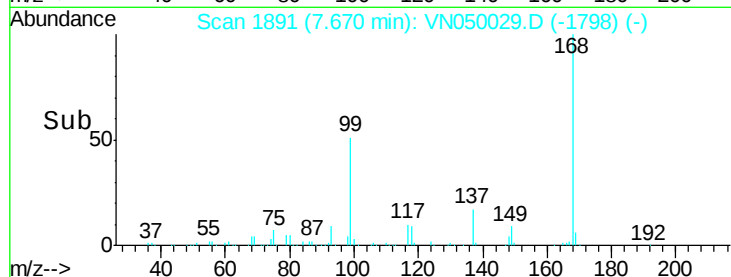
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 302

Delta R.T. 0.01 min

Lab File: VN050029.D

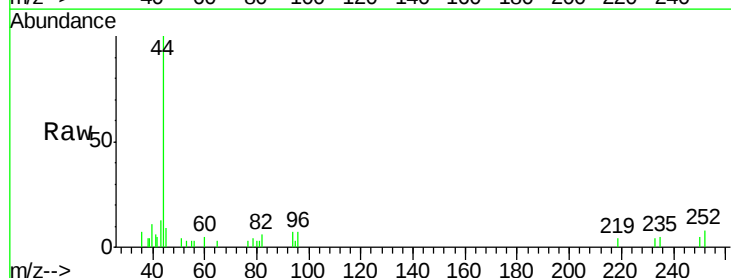
Acq: 24 Jul 2018 18:48

Tgt Ion: 94 Resp: 699

Ion Ratio Lower Upper

94 100

96 59.5 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VN050029.D (-206) (-)

Ion 95.90 (95.60 to 96.60): VN050029.D (-206) (-)

2.56

600

500

400

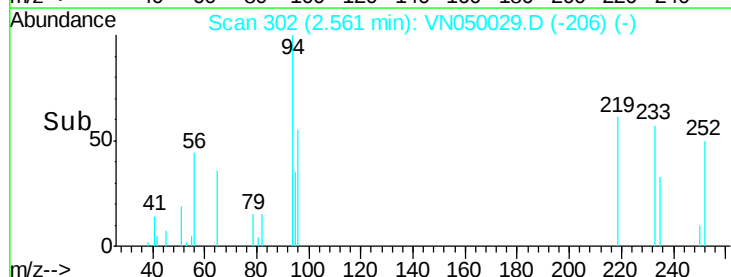
300

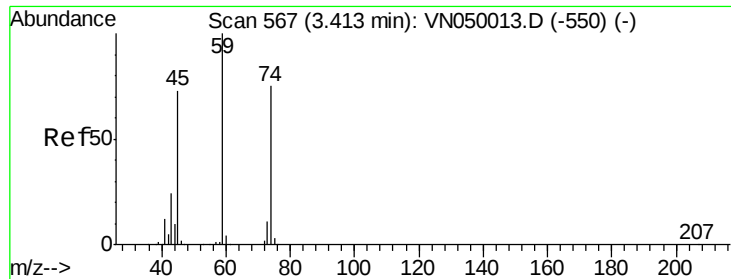
200

100

0

Time-->





#8

Diethyl Ether

Concen: 0.29 ug/l

RT: 3.41 min Scan# 566

Delta R.T. -0.00 min

Lab File: VN050029.D

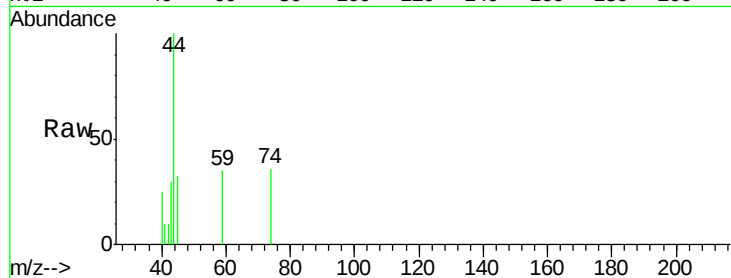
Acq: 24 Jul 2018 18:48

Tot Ion: 74 Resp: 1233

Ion Ratio Lower Upper

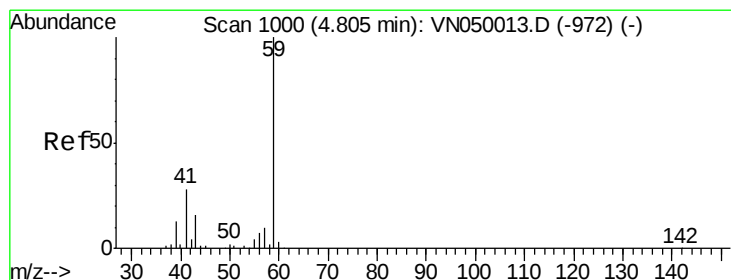
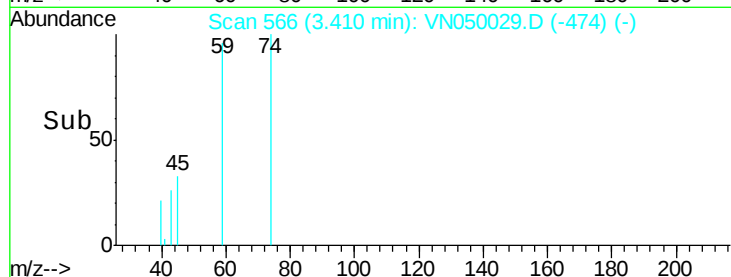
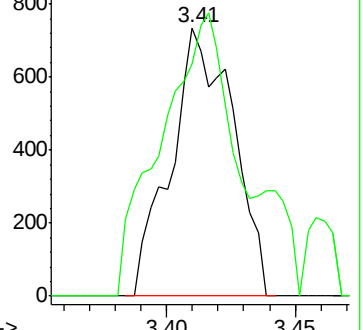
74 100

45 122.5 47.6 142.8



Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0



#11

Tert butyl alcohol

Concen: 1.03 ug/l

RT: 4.80 min Scan# 999

Delta R.T. -0.00 min

Lab File: VN050029.D

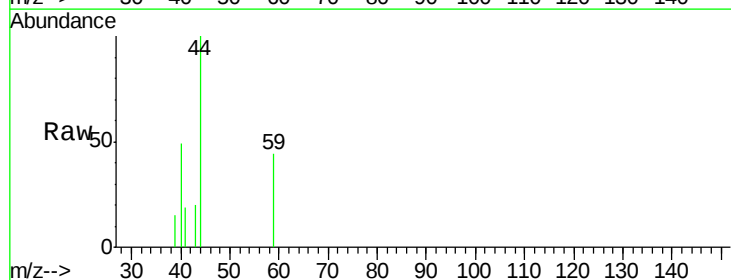
Acq: 24 Jul 2018 18:48

Tgt Ion: 59 Resp: 635

Ion Ratio Lower Upper

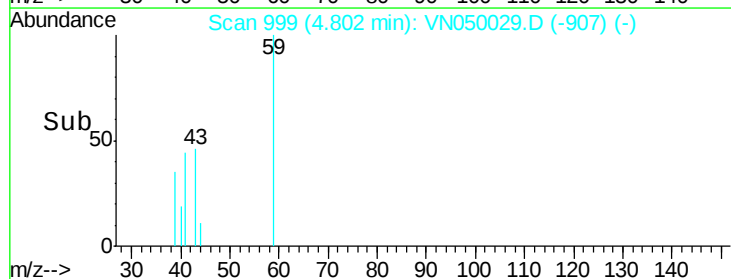
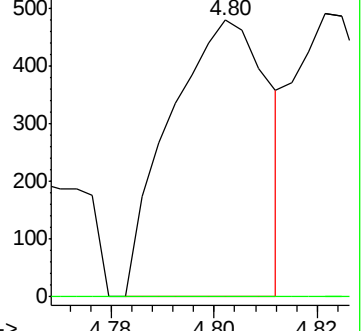
59 100

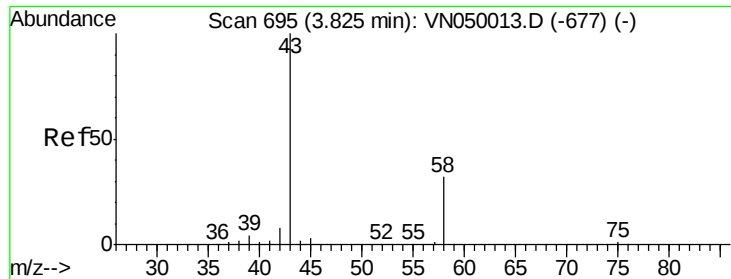
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 5.49 ug/l

RT: 3.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN050029.D

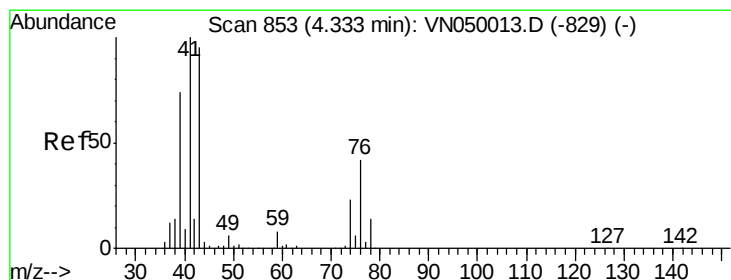
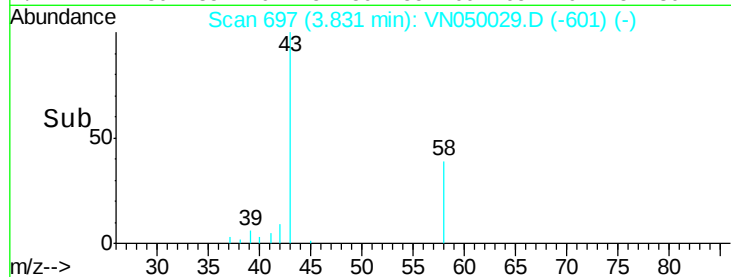
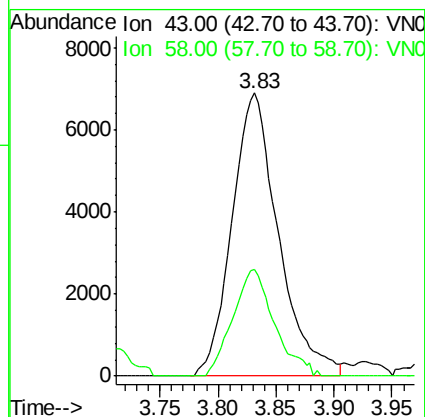
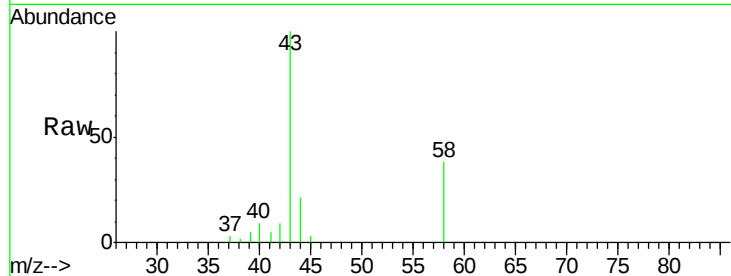
Acq: 24 Jul 2018 18:48

Tot Ion: 43 Resp: 19156

Ion Ratio Lower Upper

43 100

58 37.7 25.8 38.8



#18

Methyl Acetate

Concen: 3.81 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.00 min

Lab File: VN050029.D

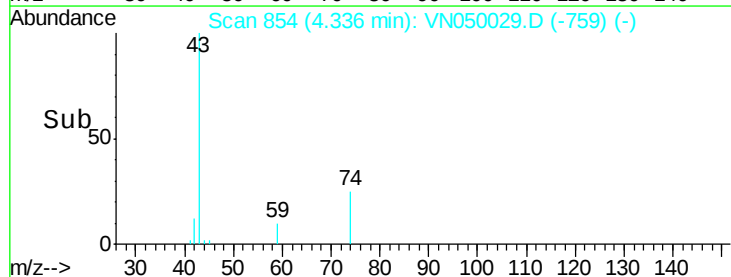
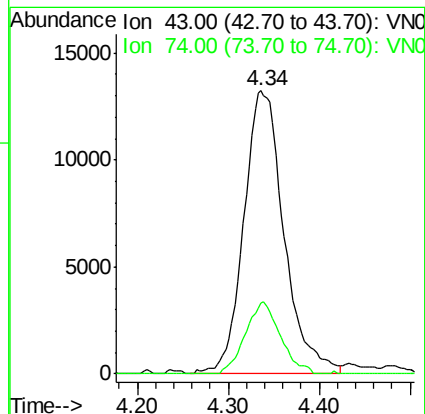
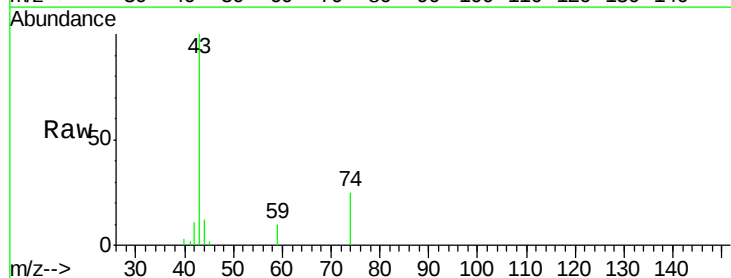
Acq: 24 Jul 2018 18:48

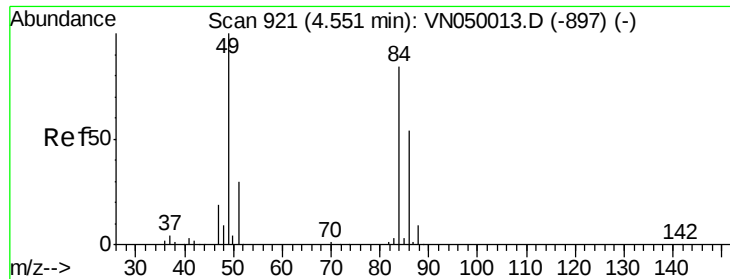
Tgt Ion: 43 Resp: 40630

Ion Ratio Lower Upper

43 100

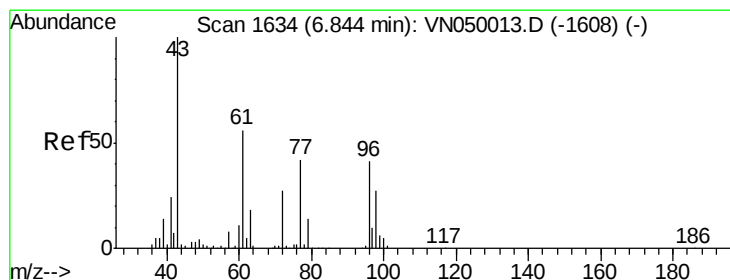
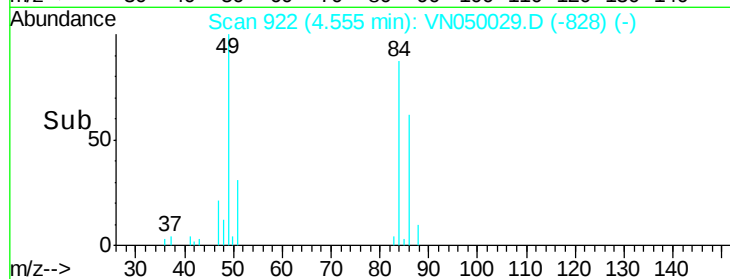
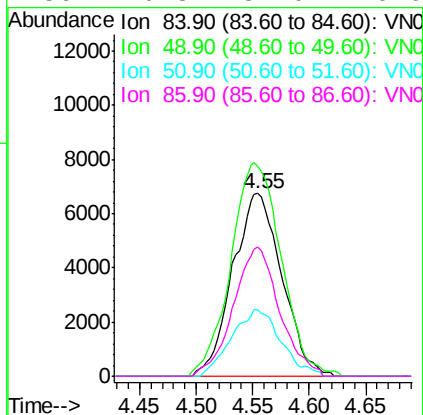
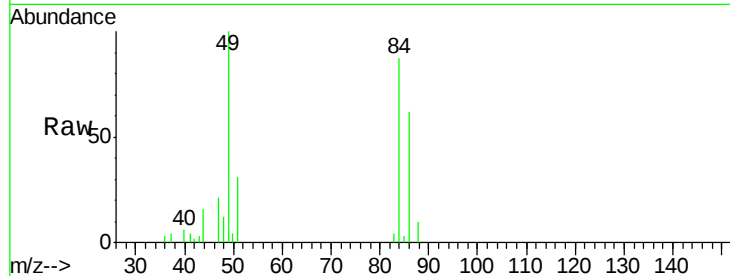
74 22.1 19.2 28.8





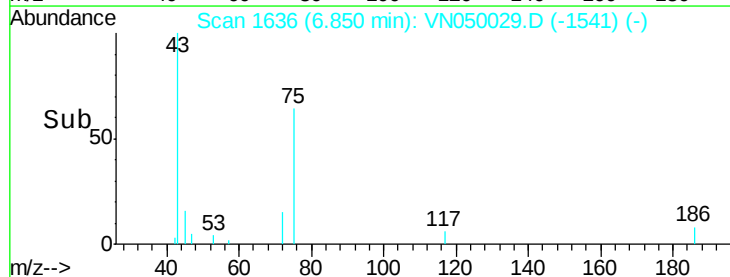
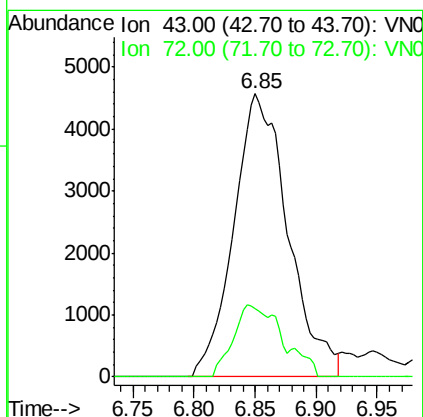
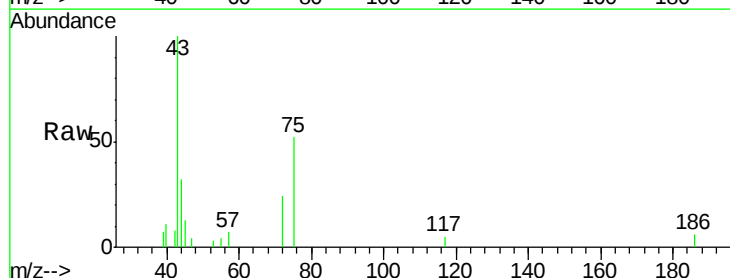
#20
Methvlene Chloride
Concen: 1.54 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050029.D
Acq: 24 Jul 2018 18:48

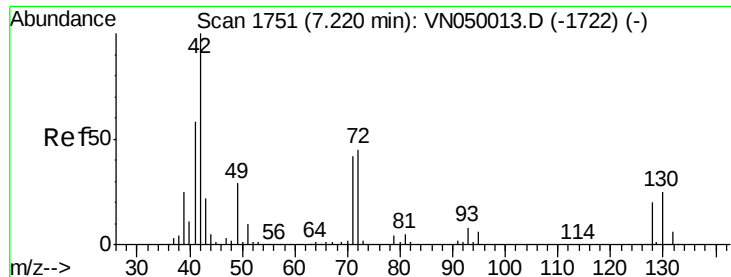
Tot Ion:	84	Resp:	20411
Ion	Ratio	Lower	Upper
84	100		
49	115.0	94.8	142.2
51	36.2	28.3	42.5
86	70.8	51.0	76.6



#25
2-Butanone
Concen: 4.44 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN050029.D
Acq: 24 Jul 2018 18:48

Tgt Ion:	43	Resp:	14136
Ion	Ratio	Lower	Upper
43	100		
72	24.0	21.5	32.3





#29

Tetrahydrofuran

Concen: 1.14 ug/l

RT: 7.24 min Scan# 1756

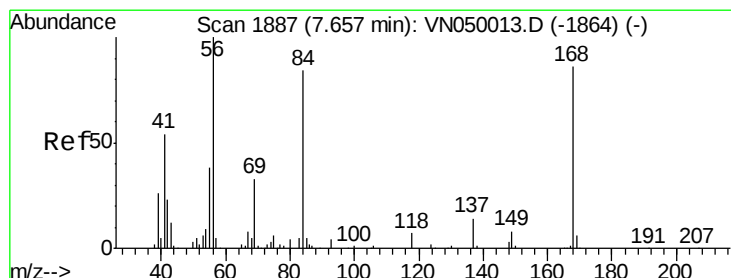
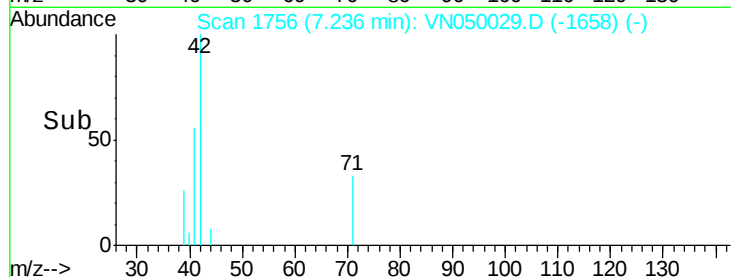
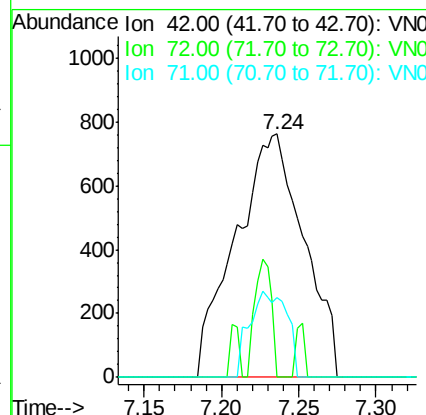
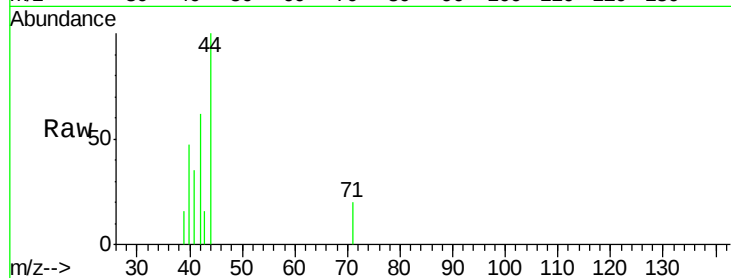
Delta R.T. 0.02 min

Lab File: VN050029.D

Acq: 24 Jul 2018 18:48

Tot Ion: 42 Resp: 2337

Ion	Ratio	Lower	Upper
42	100		
72	12.1	35.9	53.9#
71	19.1	33.7	50.5#



#31

Cyclohexane

Concen: 0.91 ug/l

RT: 7.67 min Scan# 1891

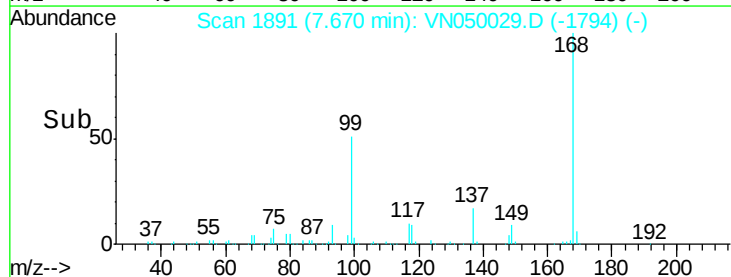
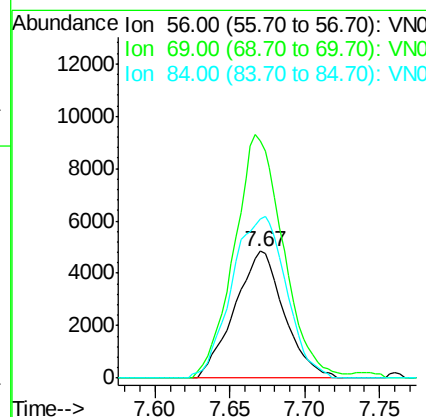
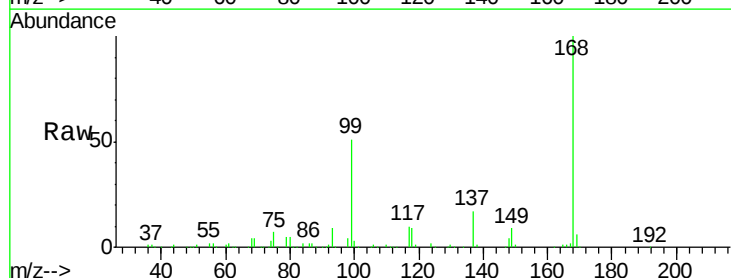
Delta R.T. 0.01 min

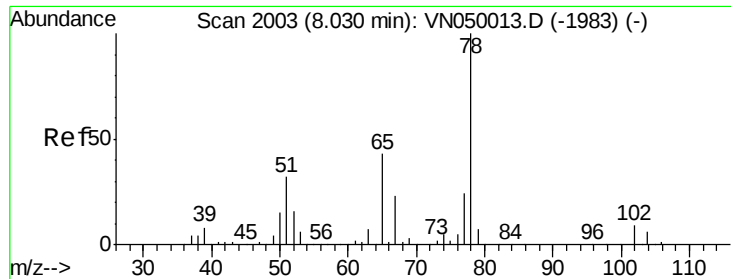
Lab File: VN050029.D

Acq: 24 Jul 2018 18:48

Tgt Ion: 56 Resp: 11198

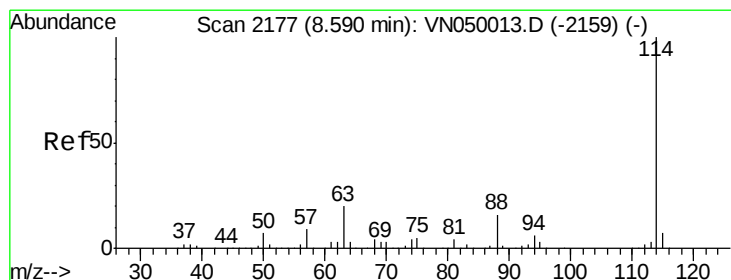
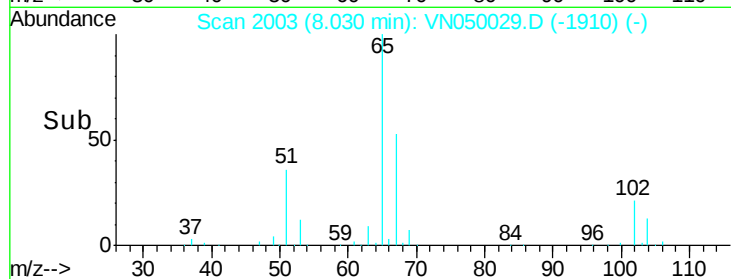
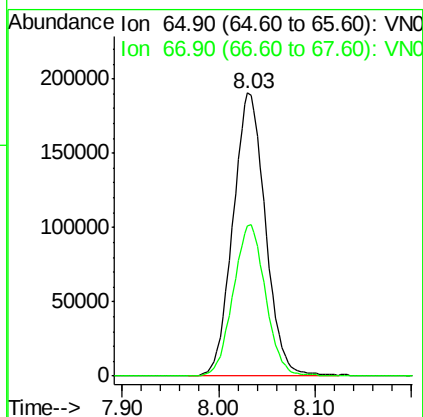
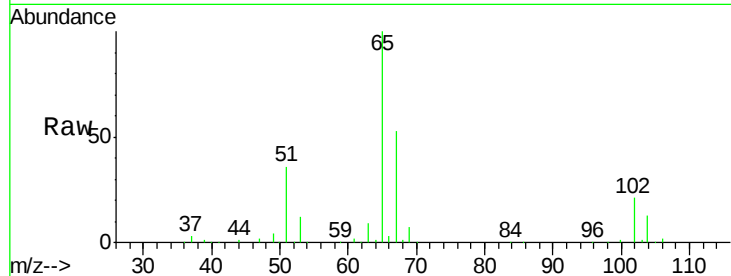
Ion	Ratio	Lower	Upper
56	100		
69	186.9	26.2	39.4#
84	125.6	67.4	101.0#





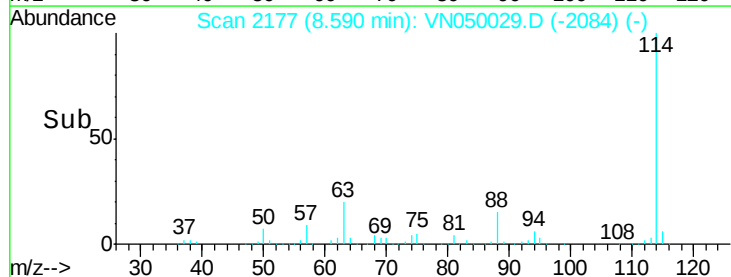
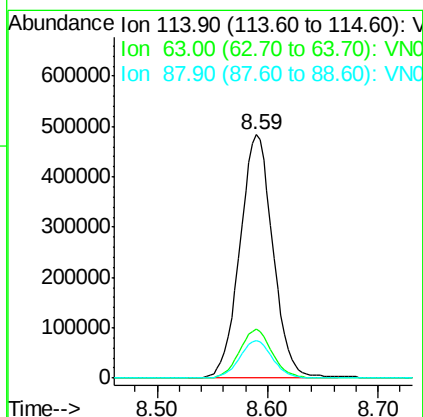
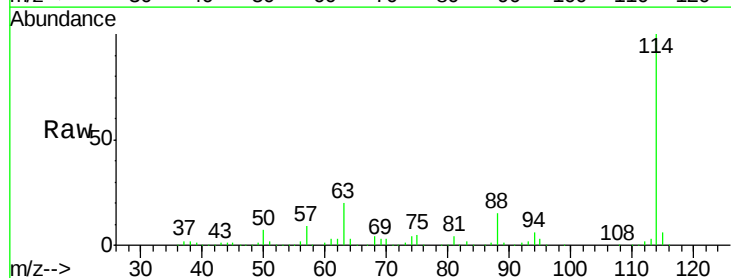
#33
 1,2-Dichloroethane-d4
 Concen: 53.15 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050029.D
 Acq: 24 Jul 2018 18:48

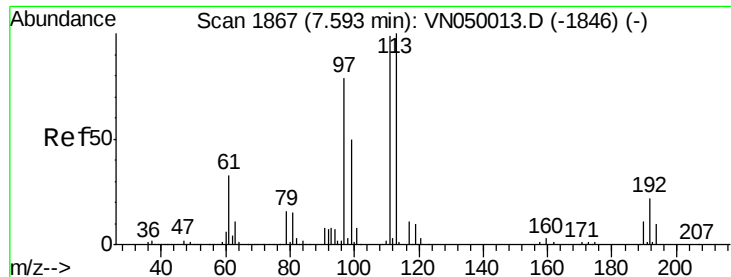
Tot Ion: 65 Resp: 443818
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050029.D
 Acq: 24 Jul 2018 18:48

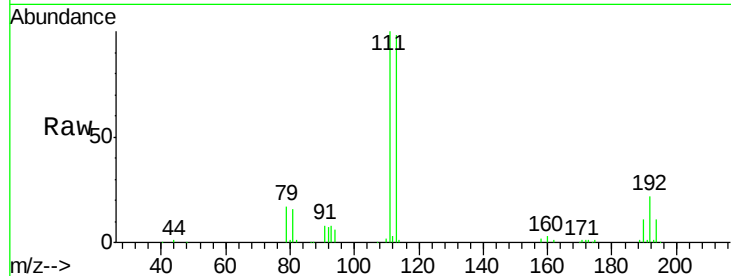
Tgt Ion: 114 Resp: 1003203
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 40.0
 88 15.2 0.0 31.2



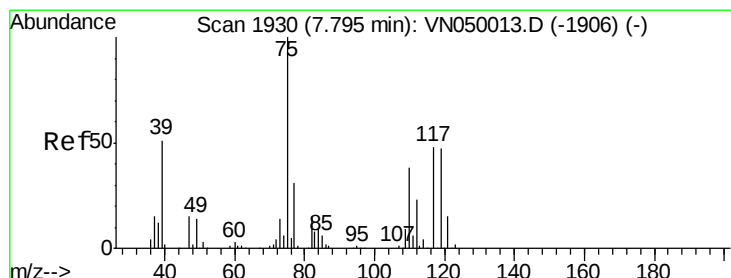
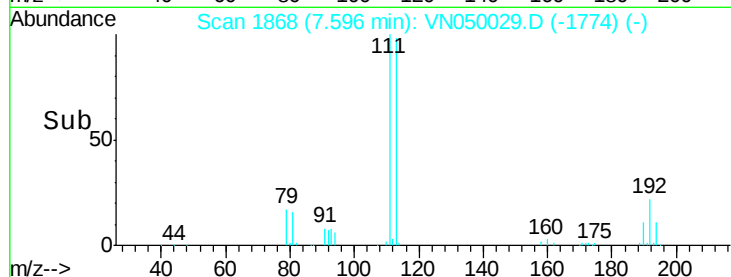
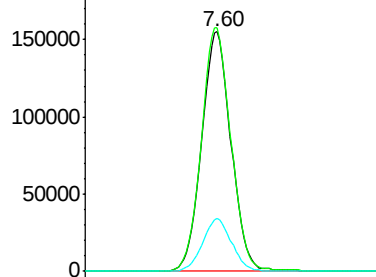


#35
Dibromofluoromethane
Concen: 47.57 ug/l
RT: 7.60 min Scan# 1868
Delta R.T. 0.00 min
Lab File: VN050029.D
Acq: 24 Jul 2018 18:48

Tot Ion:113 Resp: 389671
Ion Ratio Lower Upper
113 100
111 101.8 80.7 121.1
192 21.8 17.8 26.6

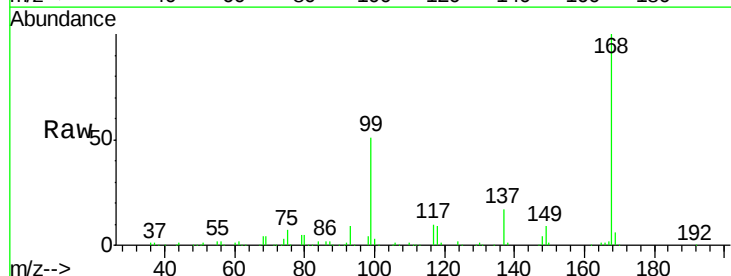


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

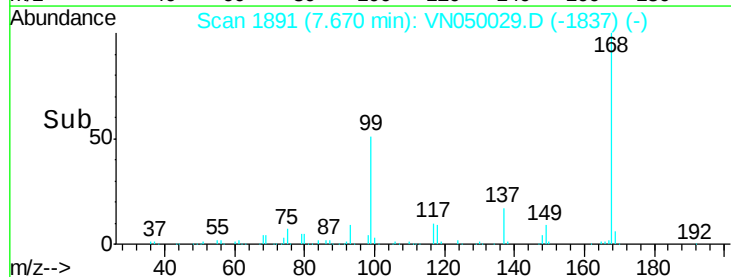
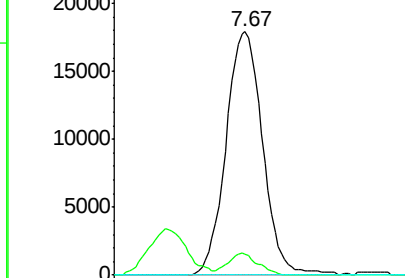


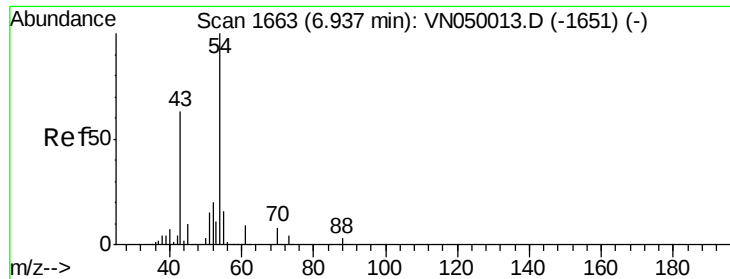
#36
1,1-Dichloropropene
Concen: 3.93 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.13 min
Lab File: VN050029.D
Acq: 24 Jul 2018 18:48

Tgt Ion: 75 Resp: 44392
Ion Ratio Lower Upper
75 100
110 7.6 18.4 55.2#
77 0.0 25.3 37.9#



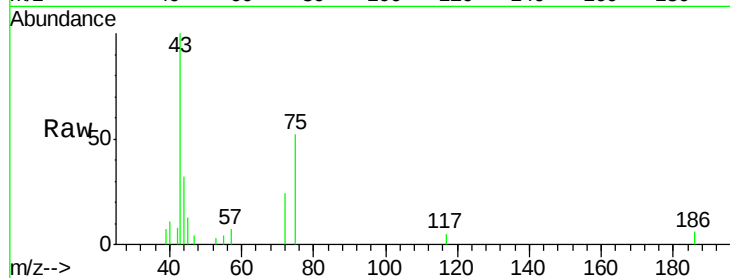
Abundance Ion 74.90 (74.60 to 75.60): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): V



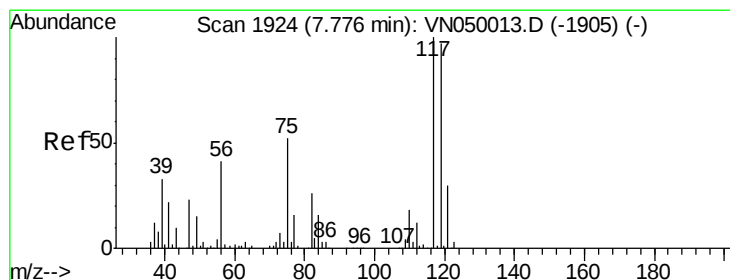
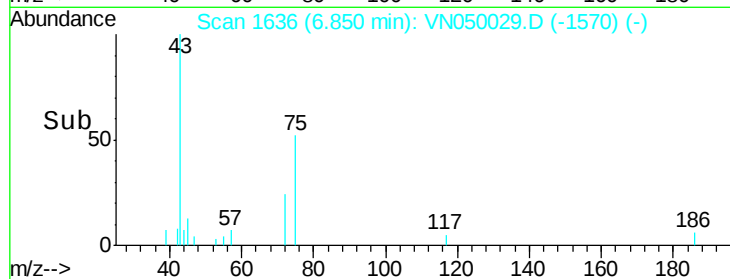
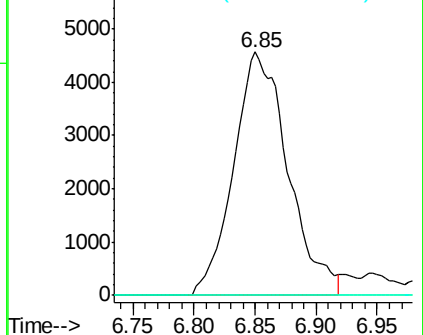


#37
Ethyl Acetate
Concen: 1.79 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. -0.09 min
Lab File: VN050029.D
Acq: 24 Jul 2018 18:48

Tot Ion: 43 Resp: 14136
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.8#
70 0.0 8.4 12.6#

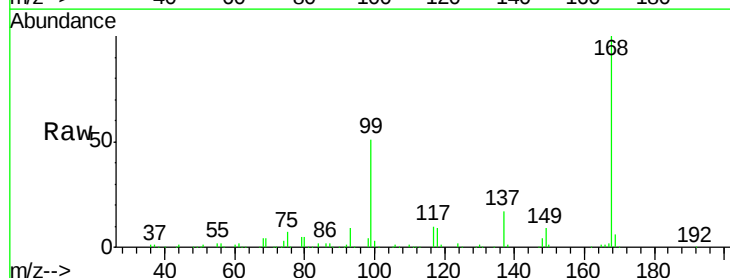


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

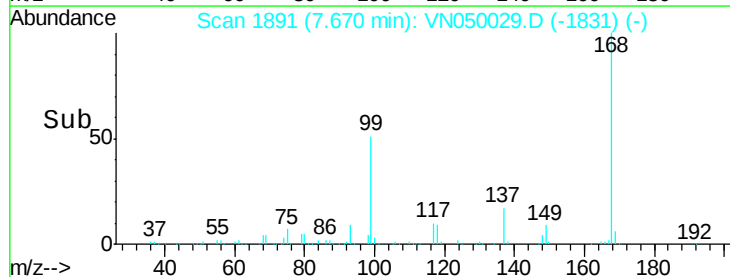
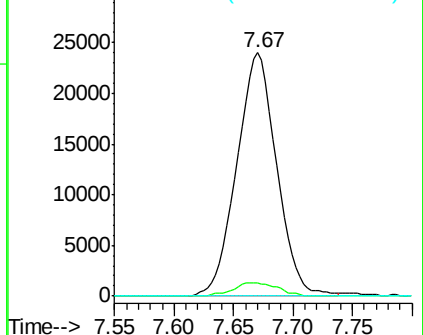


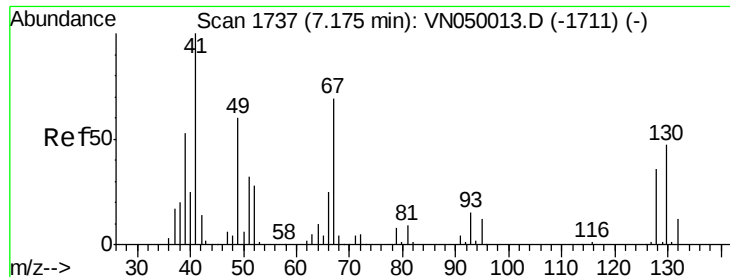
#38
Carbon Tetrachloride
Concen: 4.65 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN050029.D
Acq: 24 Jul 2018 18:48

Tgt Ion: 117 Resp: 55779
Ion Ratio Lower Upper
117 100
119 5.3 77.4 116.0#
121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V





#41

Methacrylonitrile

Concen: 2.82 ug/l

RT: 7.21 min Scan# 1748

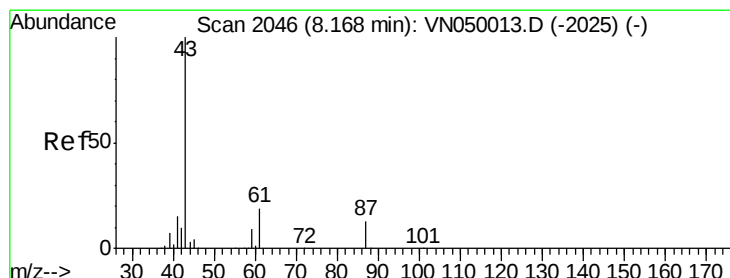
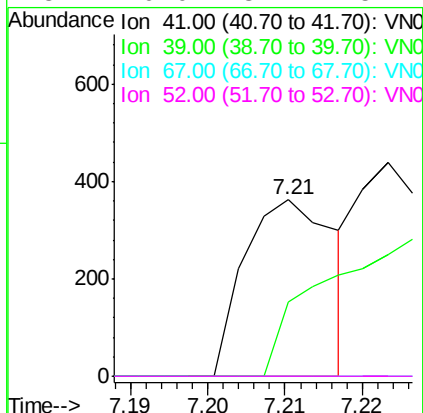
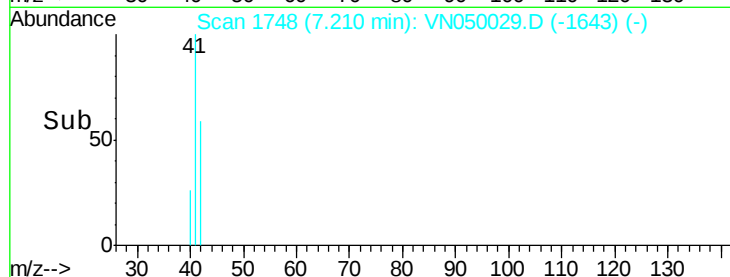
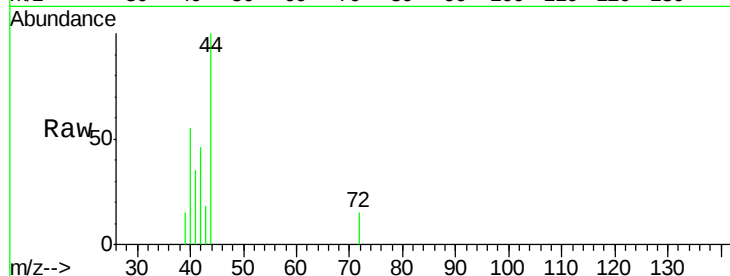
Delta R.T. 0.04 min

Lab File: VN050029.D

Acq: 24 Jul 2018 18:48

Tot Ion: 41 Resp: 295

Ion	Ratio	Lower	Upper
41	100		
39	0.0	55.8	83.6#
67	0.0	84.3	126.5#
52	0.0	34.2	51.2#



#43

Isopropyl Acetate

Concen: 9.17 ug/l

RT: 8.24 min Scan# 2067

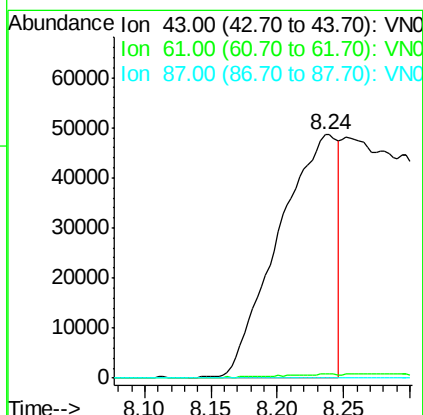
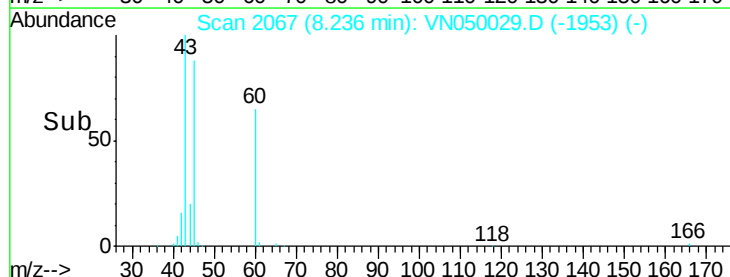
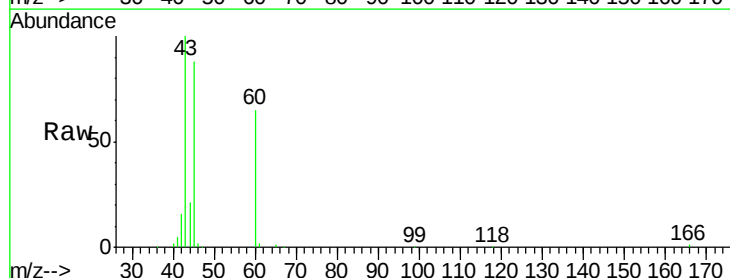
Delta R.T. 0.07 min

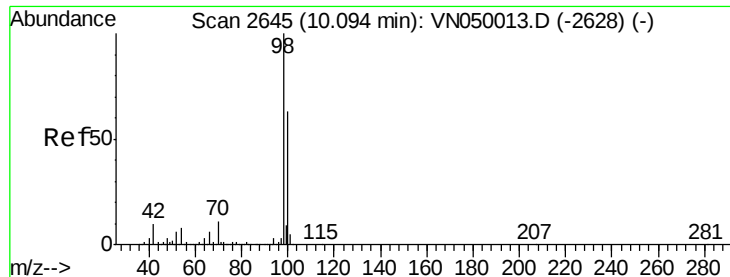
Lab File: VN050029.D

Acq: 24 Jul 2018 18:48

Tgt Ion: 43 Resp: 149998

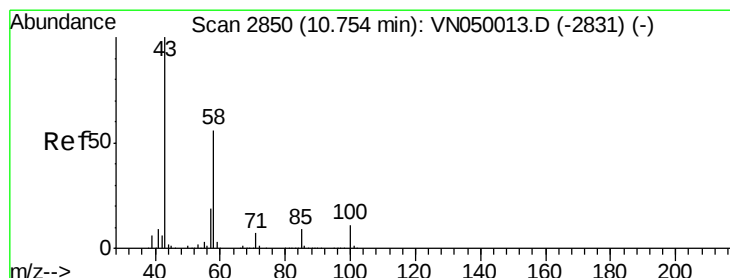
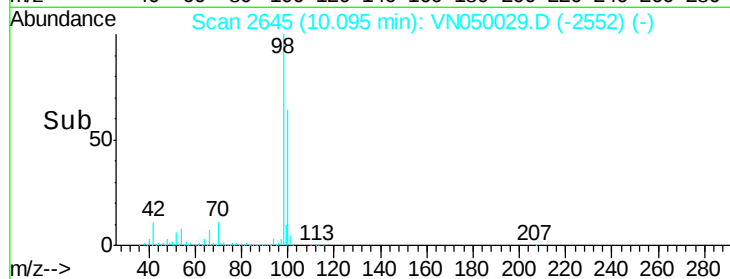
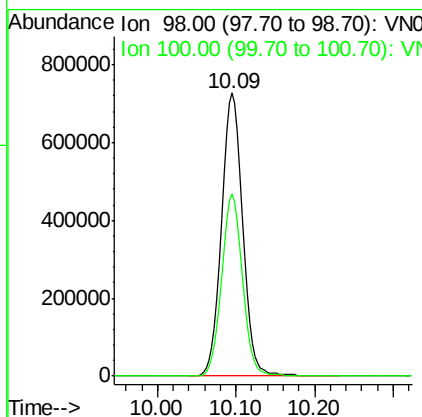
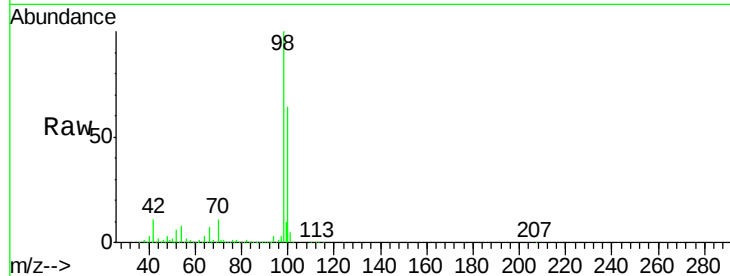
Ion	Ratio	Lower	Upper
43	100		
61	1.8	15.8	23.6#
87	0.0	10.3	15.5#





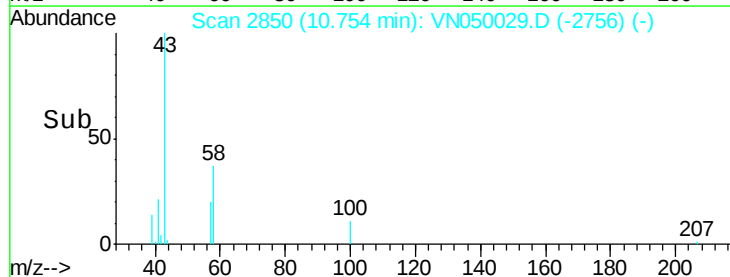
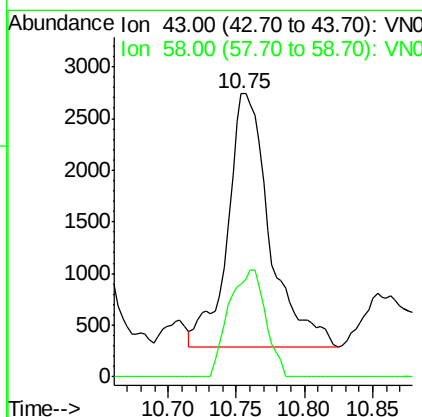
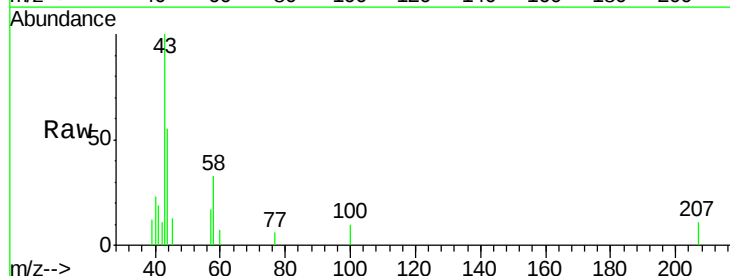
#50
Toluene-d8
Concen: 44.83 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050029.D
Acq: 24 Jul 2018 18:48

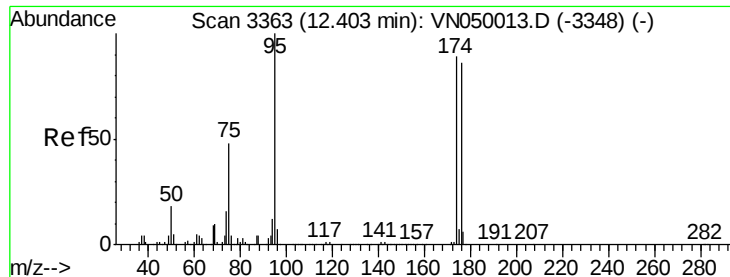
Tot Ion: 98 Resp: 1350108
Ion Ratio Lower Upper
98 100
100 63.2 50.7 76.1



#59
2-Hexanone
Concen: 6.08 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN050029.D
Acq: 24 Jul 2018 18:48

Tgt Ion: 43 Resp: 5240
Ion Ratio Lower Upper
43 100
58 36.8 27.6 82.7





#62

4-Bromofluorobenzene

Concen: 36.17 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050029.D

Acq: 24 Jul 2018 18:48

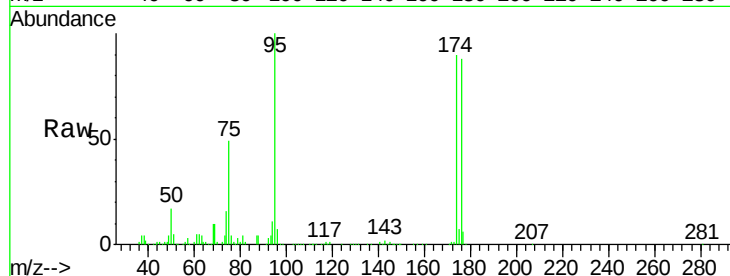
Tot Ion: 95 Resp: 358632

Ion Ratio Lower Upper

95 100

174 91.7 0.0 178.2

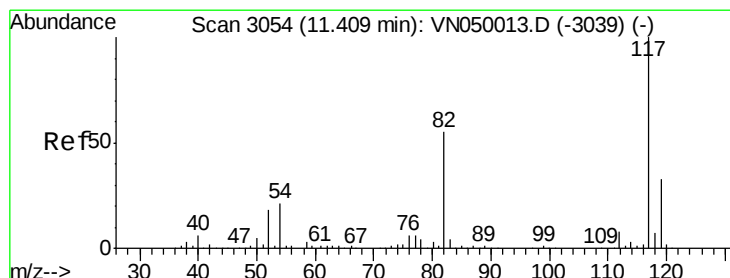
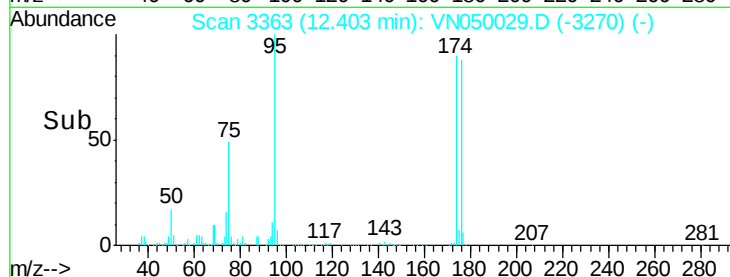
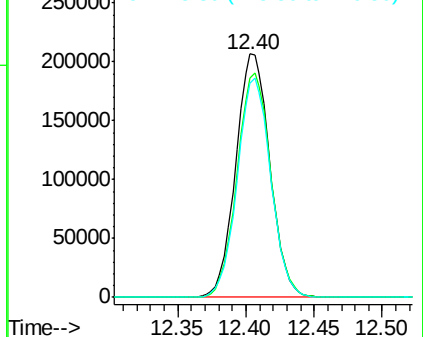
176 88.3 0.0 173.4



Abundance Ion 94.90 (94.60 to 95.60): VN050013.D (-3348) (-)

Ion 173.80 (173.50 to 174.50): VN050013.D (-3348) (-)

Ion 175.80 (175.50 to 176.50): VN050013.D (-3348) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN050029.D

Acq: 24 Jul 2018 18:48

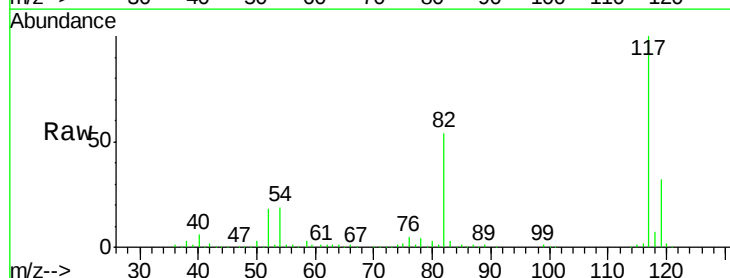
Tgt Ion: 117 Resp: 824456

Ion Ratio Lower Upper

117 100

82 54.2 43.7 65.5

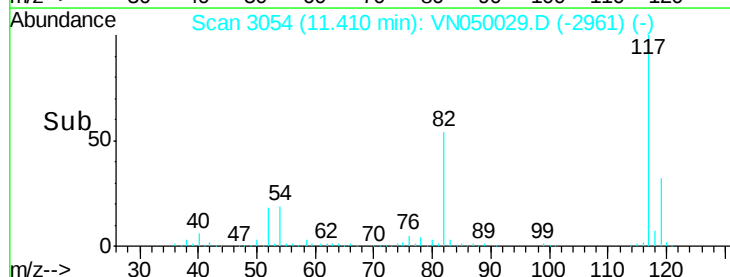
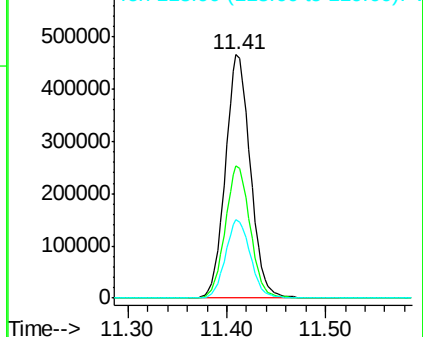
119 32.0 26.1 39.1

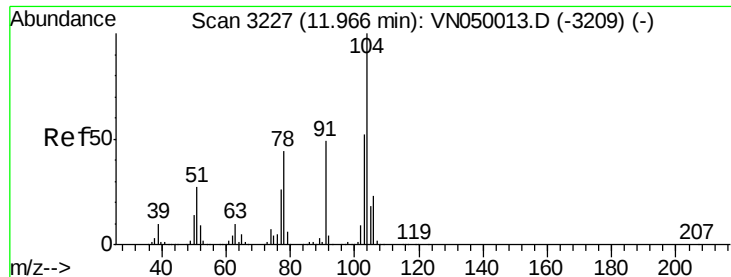


Abundance Ion 116.90 (116.60 to 117.60): VN050013.D (-3039) (-)

Ion 82.00 (81.70 to 82.70): VN050013.D (-3039) (-)

Ion 118.90 (118.60 to 119.60): VN050013.D (-3039) (-)





#70

Stvrene

Concen: 0.93 ug/l

RT: 11.97 min Scan# 3228

Delta R.T. 0.00 min

Lab File: VN050029.D

Acq: 24 Jul 2018 18:48

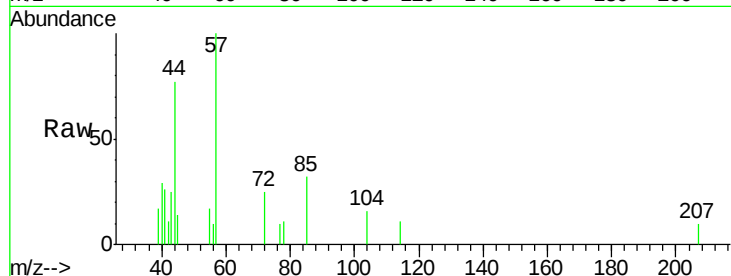
Tot Ion:104 Resp: 177

Ion Ratio Lower Upper

104 100

78 60.5 39.3 58.9#

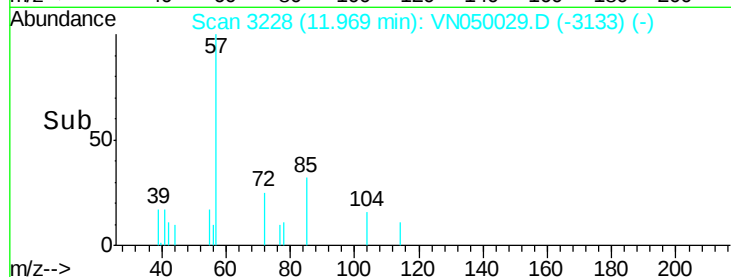
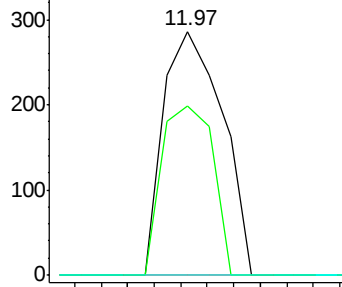
103 0.0 45.0 67.6#



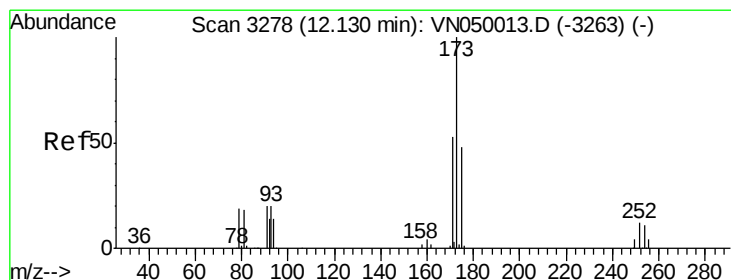
Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



Time-->



#71

Bromoform

Concen: 0.51 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN050029.D

Acq: 24 Jul 2018 18:48

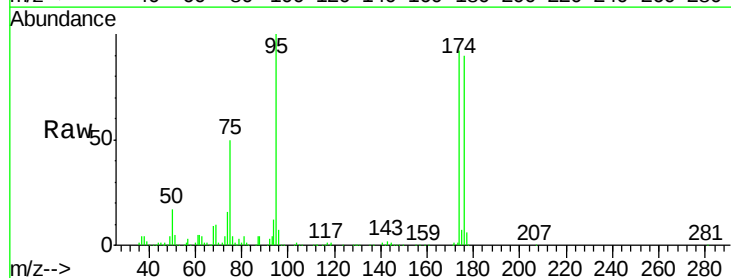
Tgt Ion:173 Resp: 2975

Ion Ratio Lower Upper

173 100

175 697.3 24.1 72.2#

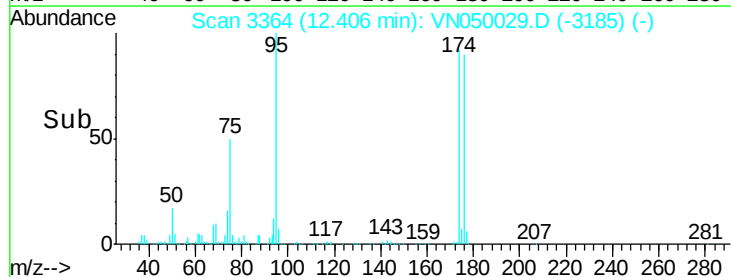
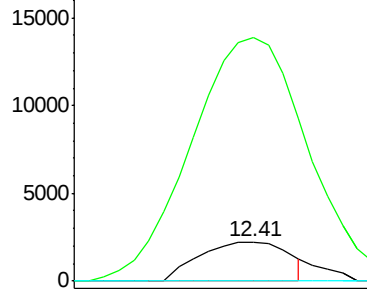
254 0.0 0.2 0.2#

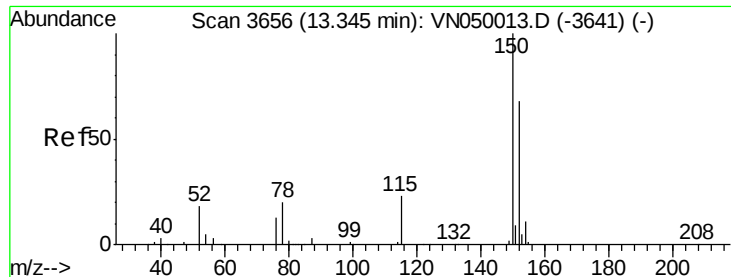


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V

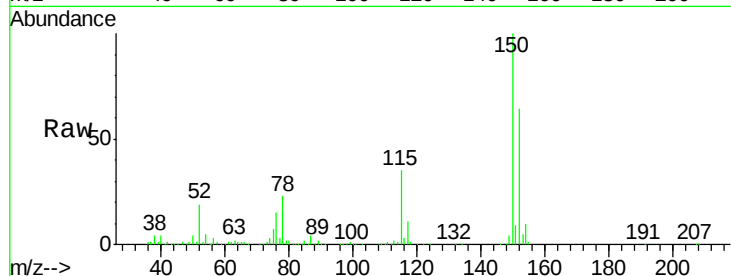




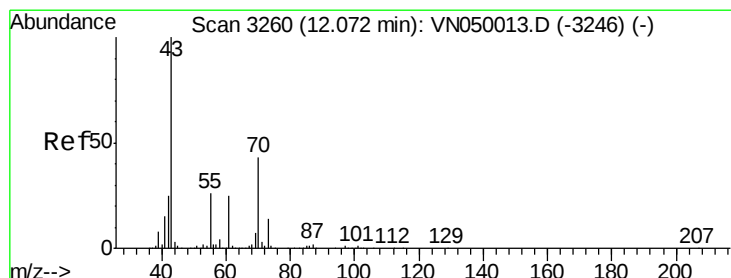
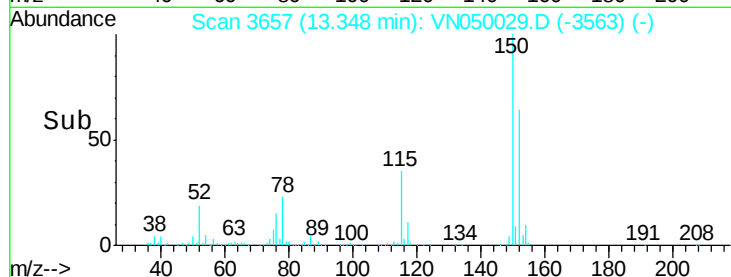
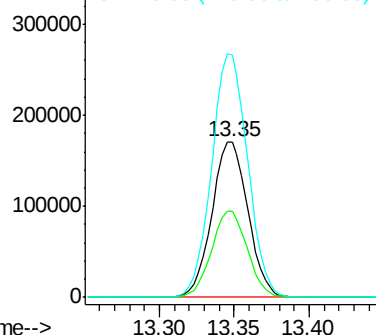
#72

1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3657
Delta R.T. 0.00 min
Lab File: VN050029.D
Acq: 24 Jul 2018 18:48

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.1	27.8	83.3
150	156.8	0.0	348.6



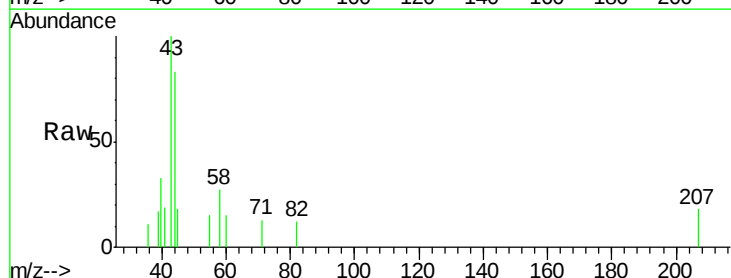
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



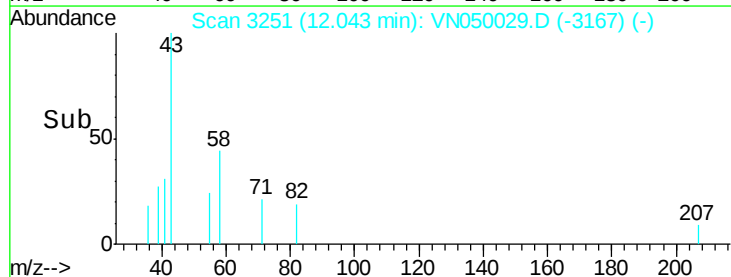
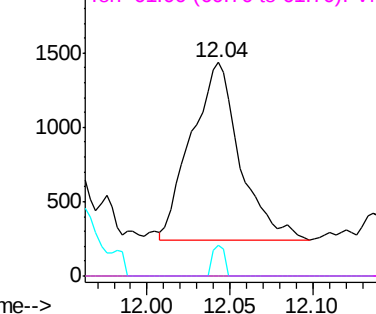
#74

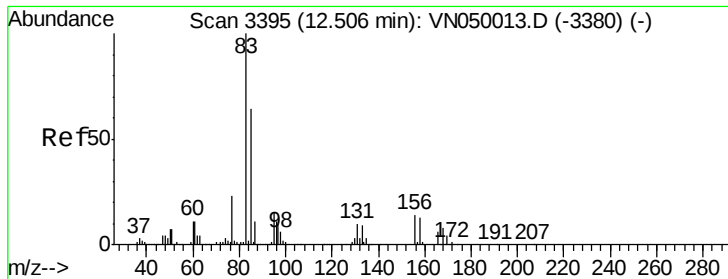
N-amil acetate
Concen: 0.36 ug/l
RT: 12.04 min Scan# 3251
Delta R.T. -0.03 min
Lab File: VN050029.D
Acq: 24 Jul 2018 18:48

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	34.4	51.6#
55	4.4	20.8	31.2#
61	0.0	19.7	29.5#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 70.00 (69.70 to 70.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 61.00 (60.70 to 61.70): VNO





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

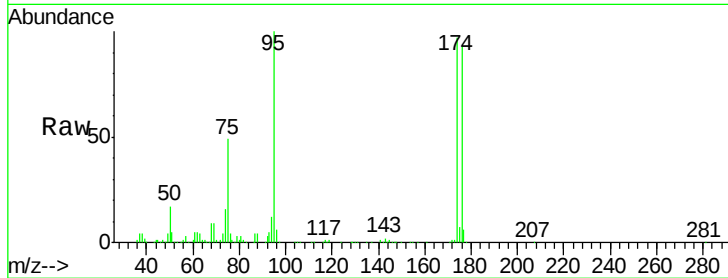
RT: 12.41 min Scan# 3366

Delta R.T. -0.09 min

Lab File: VN050029.D

Acq: 24 Jul 2018 18:48

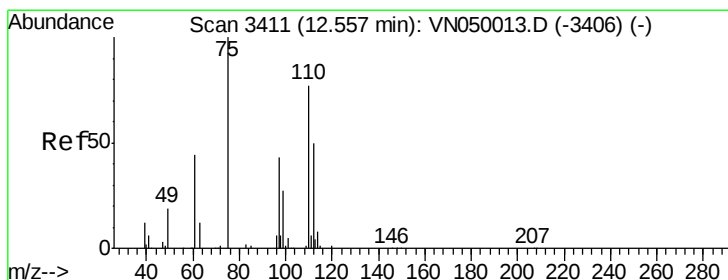
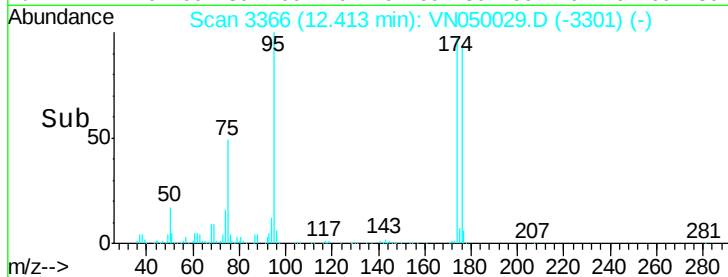
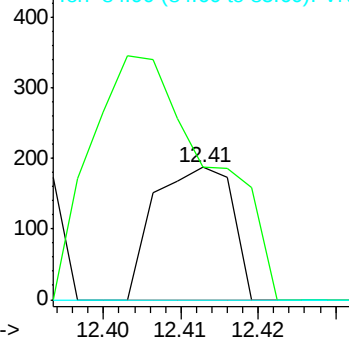
Tot Ion	83	131	Resp	Lower	Upper
Ion Ratio	100	280.9		5.1	15.3#
	85	0.0		32.3	96.8#



Abundance Ion 82.90 (82.60 to 83.60): VN050013.D (-3380) (-)

Ion 130.80 (130.50 to 131.50): VN050013.D (-3380) (-)

Ion 84.90 (84.60 to 85.60): VN050013.D (-3380) (-)



#76

1,2,3-Trichloropropane

Concen: 33.11 ug/l

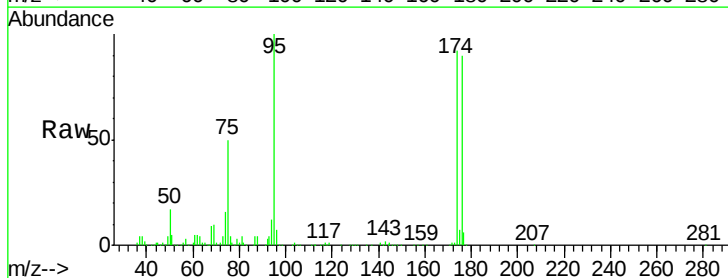
RT: 12.41 min Scan# 3364

Delta R.T. -0.15 min

Lab File: VN050029.D

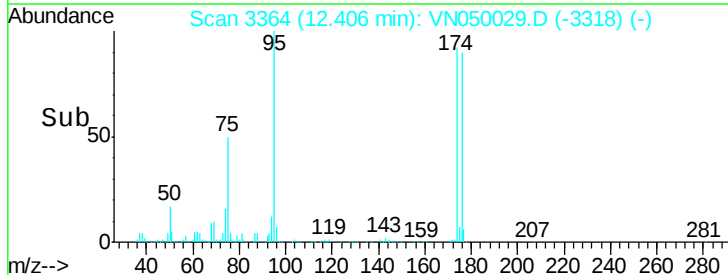
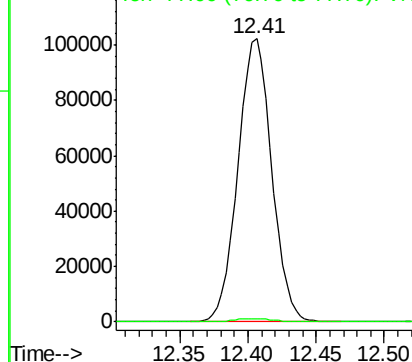
Acq: 24 Jul 2018 18:48

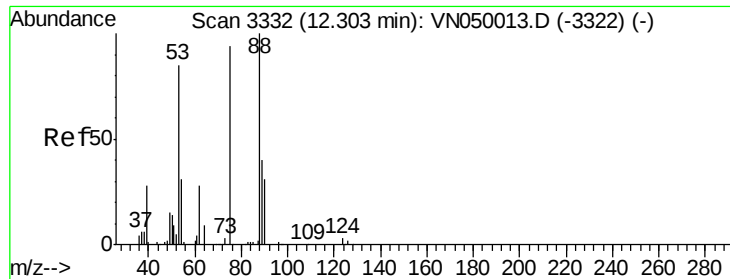
Tgt Ion	75	77	Resp	Lower	Upper
Ion Ratio	100	1.3		0.0	0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN050013.D (-3406) (-)

Ion 77.00 (76.70 to 77.70): VN050013.D (-3406) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 105.01 ug/l

RT: 12.41 min Scan# 3364

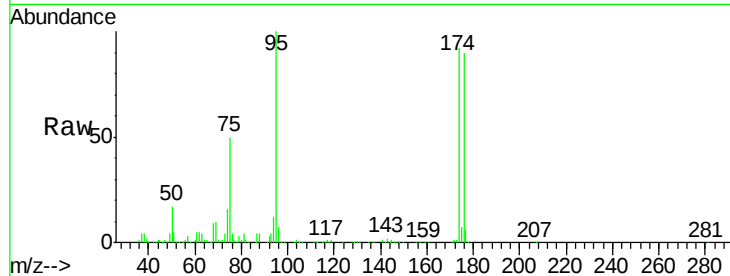
Delta R.T. 0.10 min

Lab File: VN050029.D

Acq: 24 Jul 2018 18:48

Tot Ion: 75 Resp: 175724

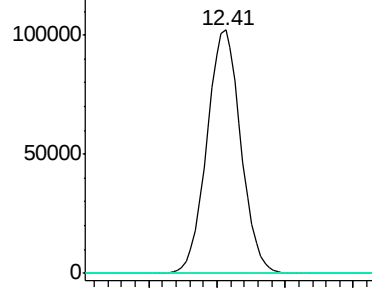
Ion	Ratio	Lower	Upper
75	100		
53	0.1	73.5	110.3#
89	0.0	36.0	54.0#



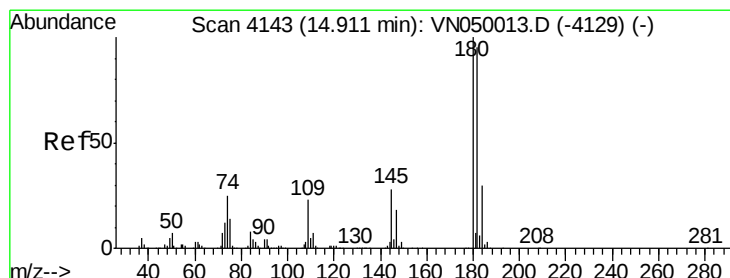
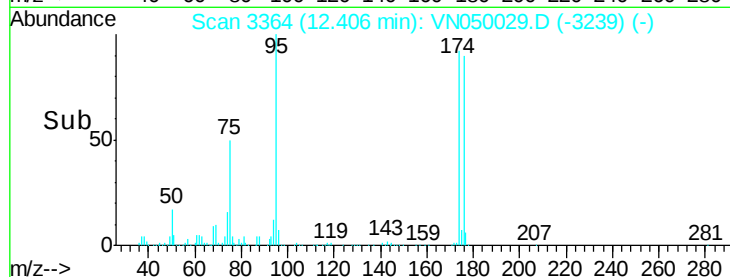
Abundance Ion 74.90 (74.60 to 75.60): VN050013.D (-3322) (-)

Ion 53.00 (52.70 to 53.70): VN050013.D (-3322) (-)

Ion 88.90 (88.60 to 89.60): VN050013.D (-3322) (-)



Time-->



#93

1,2,4-Trichlorobenzene

Concen: 3.10 ug/l

RT: 14.90 min Scan# 4141

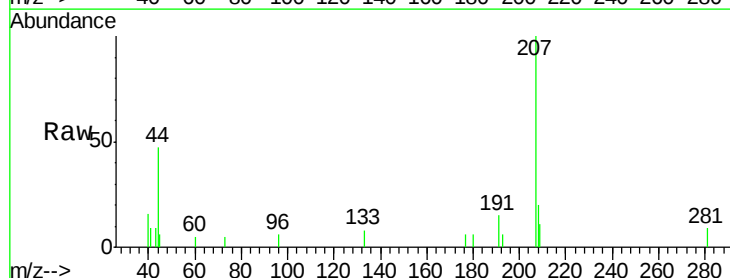
Delta R.T. -0.01 min

Lab File: VN050029.D

Acq: 24 Jul 2018 18:48

Tgt Ion: 180 Resp: 105

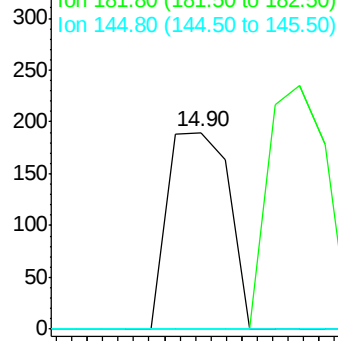
Ion	Ratio	Lower	Upper
180	100		
182	116.2	46.7	140.1
145	0.0	13.8	41.4#



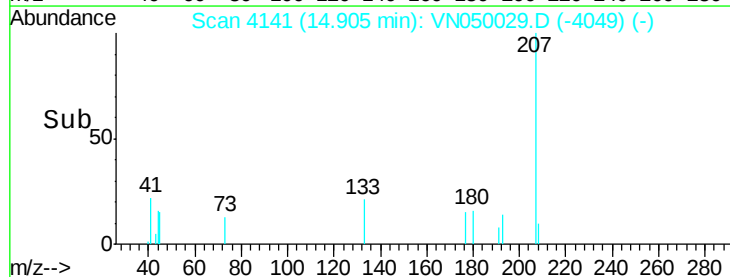
Abundance Ion 179.80 (179.50 to 180.50): VN050013.D (-4129) (-)

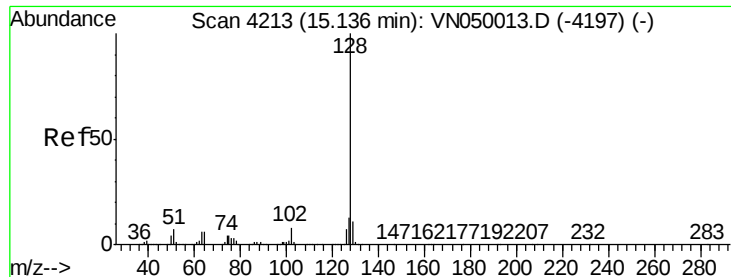
Ion 181.80 (181.50 to 182.50): VN050013.D (-4129) (-)

Ion 144.80 (144.50 to 145.50): VN050013.D (-4129) (-)



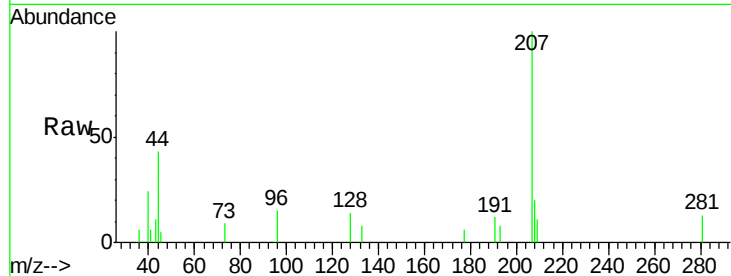
Time-->





#95
 Naphthalene
 Concen: 4.45 ug/l
 RT: 15.14 min Scan# 4214
 Delta R.T. 0.00 min
 Lab File: VN050029.D
 Acq: 24 Jul 2018 18:48

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
129	0.0	8.8	13.2#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

