

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN011119\
 Data File : VN053361.D
 Acq On : 11 Jan 2019 12:56
 Operator : JC/SP
 Sample : PB116316ZHE#04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 28

Quant Time: Jan 12 00:40:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N010519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jan 07 09:34:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	984634	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1538815	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1453864	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	637652	50.00	ug/l	0.00

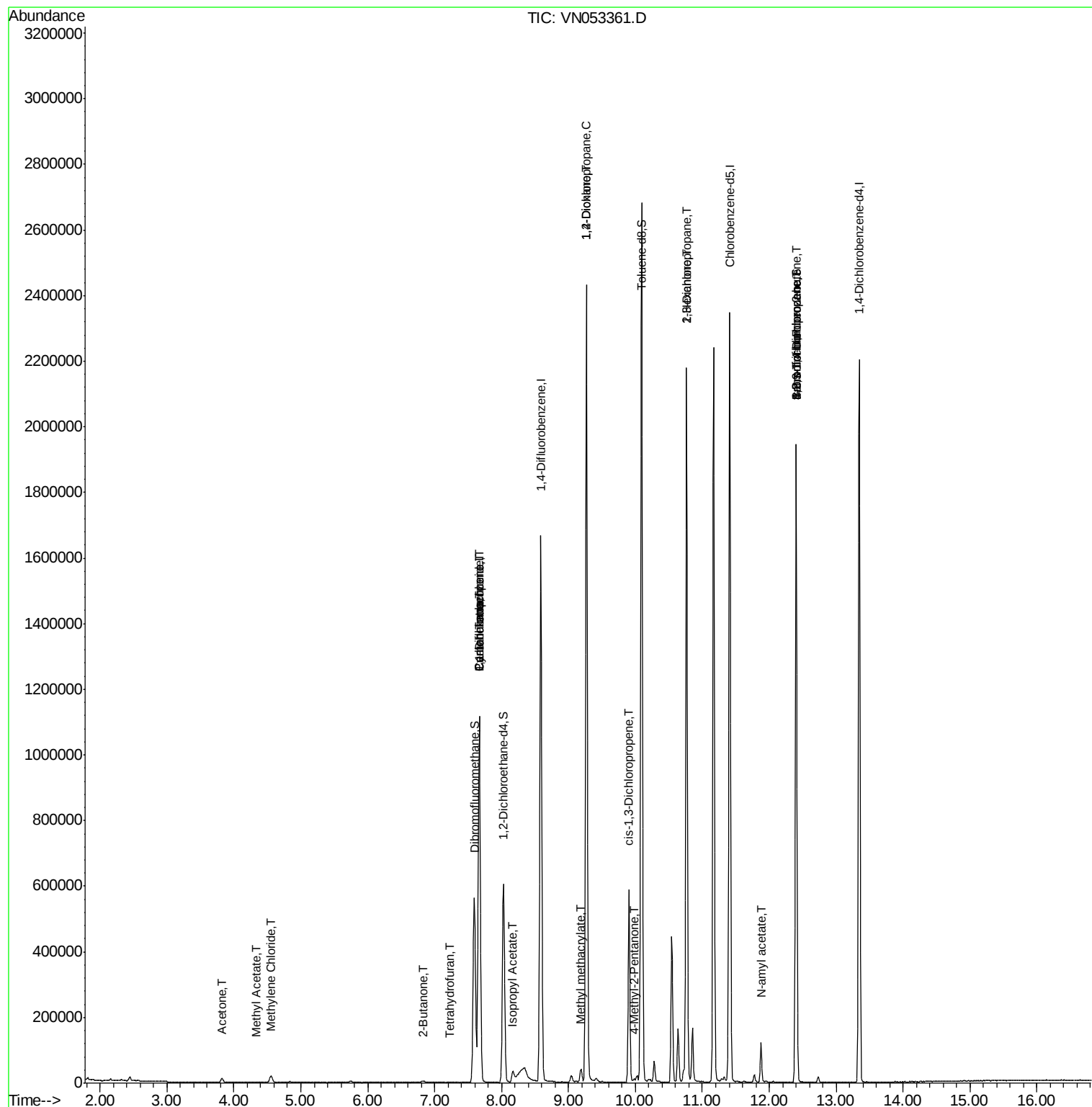
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	502349	49.04	ug/l	0.00
Spiked Amount			Recovery	=	98.08%	
35) Dibromofluoromethane	7.59	113	438361	50.04	ug/l	0.00
Spiked Amount			Recovery	=	100.08%	
50) Toluene-d8	10.09	98	1909447	50.53	ug/l	0.00
Spiked Amount			Recovery	=	101.06%	
62) 4-Bromofluorobenzene	12.40	95	669999	50.64	ug/l	0.00
Spiked Amount			Recovery	=	101.28%	

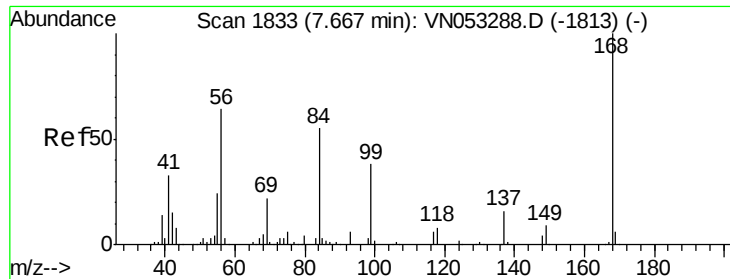
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	21964	6.734	ug/l	99
18) Methyl Acetate	4.34	43	4082	0.440	ug/l #	67
20) Methylene Chloride	4.56	84	15338	1.394	ug/l	93
25) 2-Butanone	6.83	43	1530	0.364	ug/l #	81
29) Tetrahydrofuran	7.22	42	1480	0.534	ug/l #	50
31) Cyclohexane	7.66	56	15587	0.700	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	63999	4.455	ug/l #	47
38) Carbon Tetrachloride	7.67	117	85059	6.415	ug/l #	16
43) Isopropyl Acetate	8.17	43	47347	2.572	ug/l #	83
45) 1,2-Dichloropropane	9.27	63	2689	0.234	ug/l #	43
48) Methyl methacrylate	9.18	41	13249	1.584	ug/l #	12
49) 1,4-Dioxane	9.27	88	291	3.266	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	6419	0.693	ug/l	99
54) cis-1,3-Dichloropropene	9.90	75	109308	6.612	ug/l #	63
57) 1,3-Dichloropropane	10.77	76	23818	1.439	ug/l #	42
59) 2-Hexanone	10.77	43	309172	48.745	ug/l #	50
71) Bromoform	12.40	173	4286	0.549	ug/l #	1
74) N-amyl acetate	11.88	43	36123	2.548	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	312042	33.551	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	312042	98.713	ug/l #	14

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

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QLast Update : Mon Jan 07 09:34:27 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053361.D

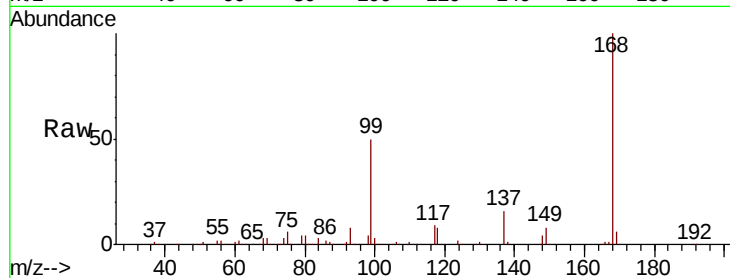
Acq: 11 Jan 2019 12:56

Tgt Ion: 168 Resp: 984634

Ion Ratio Lower Upper

168 100

99 49.6 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): VN053288.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN053288.D (-1813) (-)

7.67

400000

300000

200000

100000

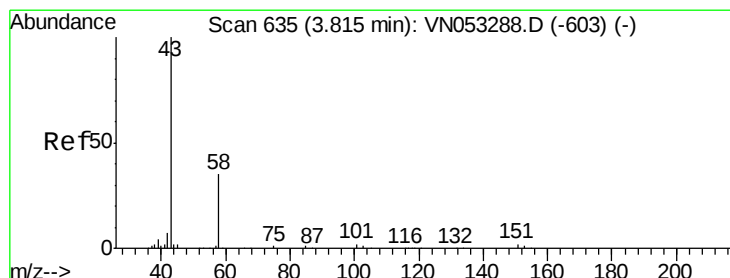
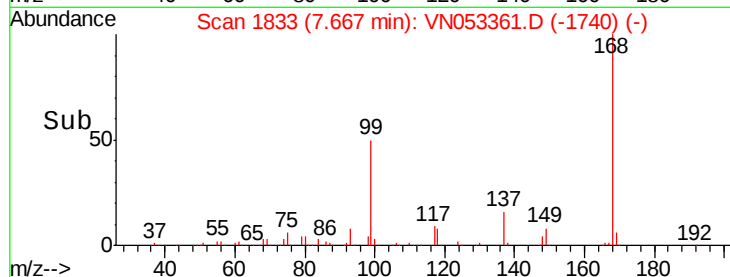
0

Time-->

7.60

7.70

7.80



#16

Acetone

Concen: 6.734 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN053361.D

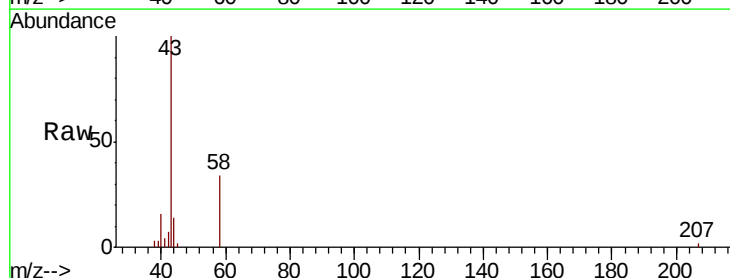
Acq: 11 Jan 2019 12:56

Tgt Ion: 43 Resp: 21964

Ion Ratio Lower Upper

43 100

58 34.1 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VN053288.D (-603) (-)

Ion 58.00 (57.70 to 58.70): VN053288.D (-603) (-)

3.82

8000

6000

4000

2000

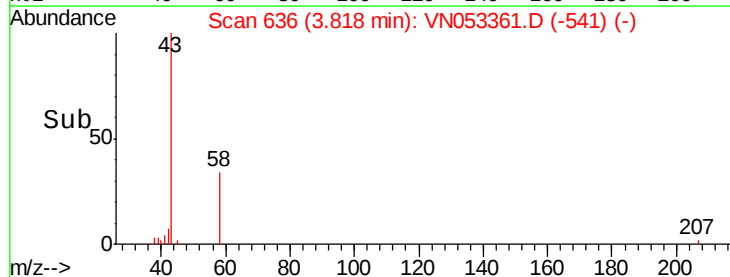
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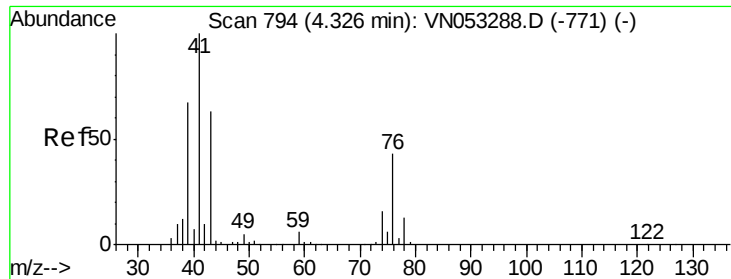
Time-->

3.70

3.80

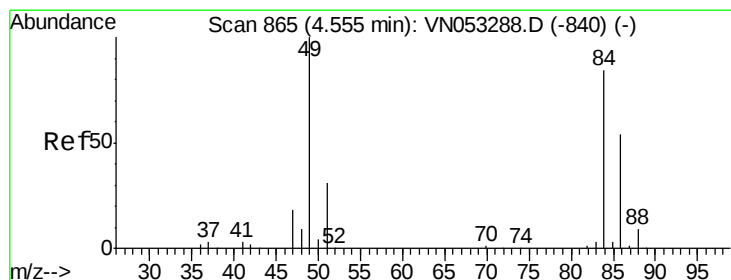
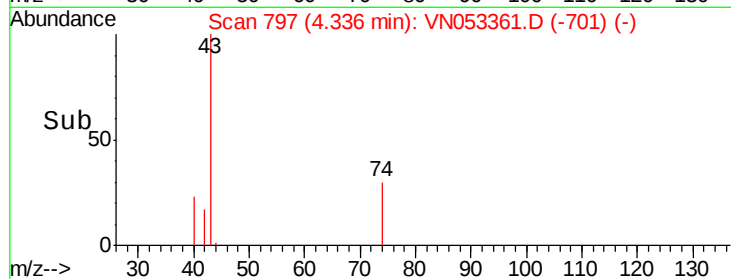
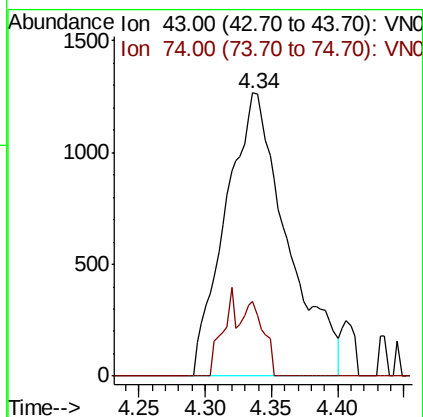
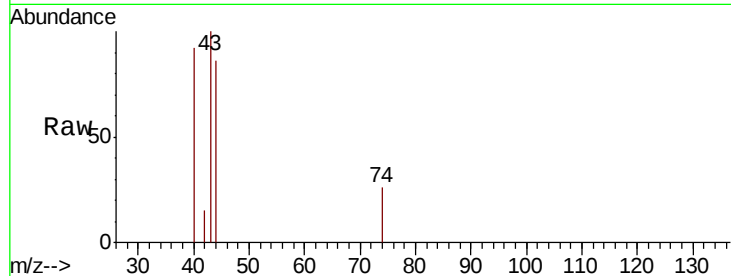
3.90





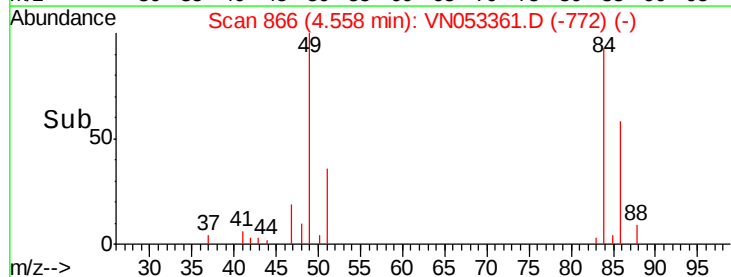
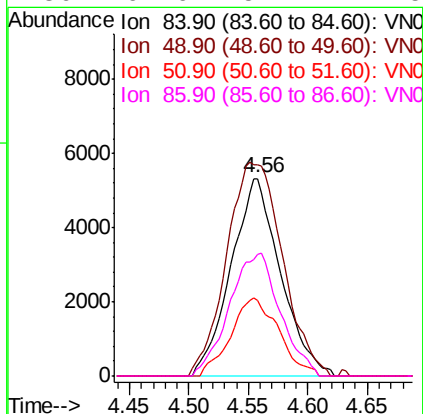
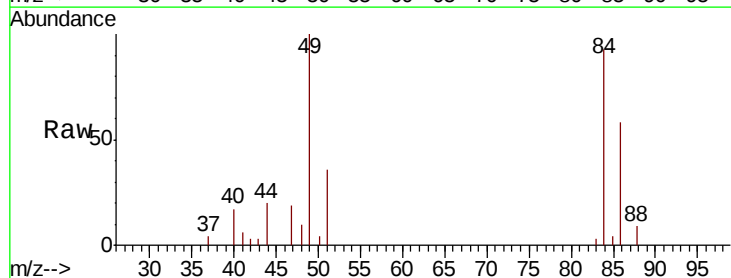
#18
Methyl Acetate
Concen: 0.440 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN053361.D
Acq: 11 Jan 2019 12:56

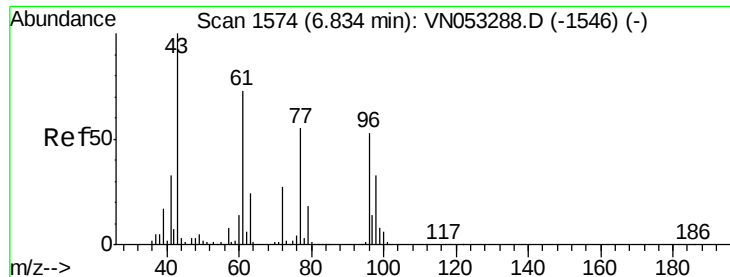
Tgt Ion: 43 Resp: 4082
Ion Ratio Lower Upper
43 100
74 8.3 19.8 29.8#



#20
Methylene Chloride
Concen: 1.394 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN053361.D
Acq: 11 Jan 2019 12:56

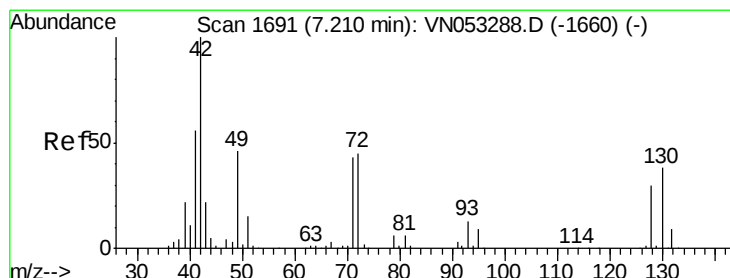
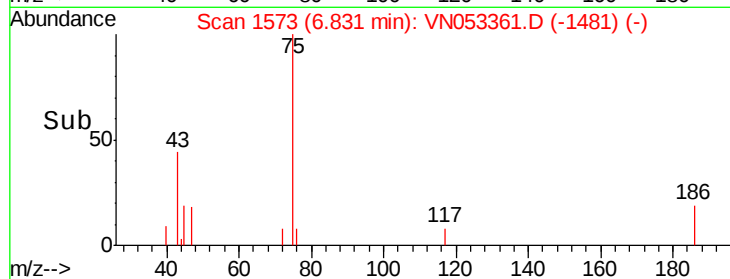
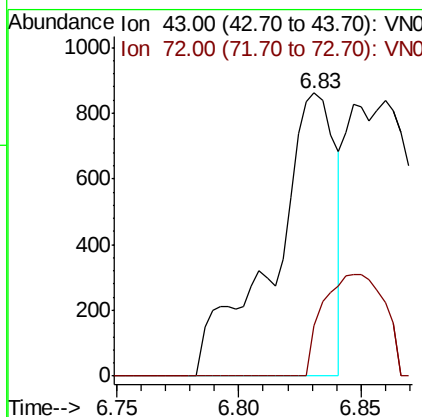
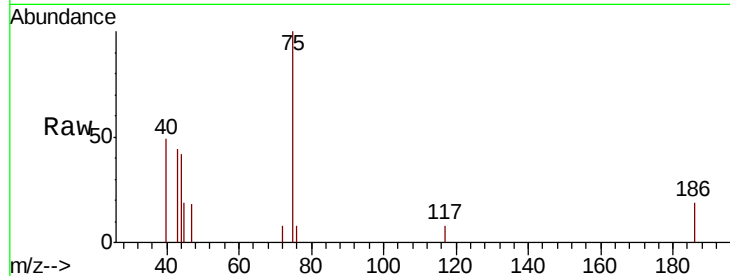
Tgt Ion: 84 Resp: 15338
Ion Ratio Lower Upper
84 100
49 107.0 95.3 142.9
51 38.0 29.0 43.6
86 61.6 51.7 77.5





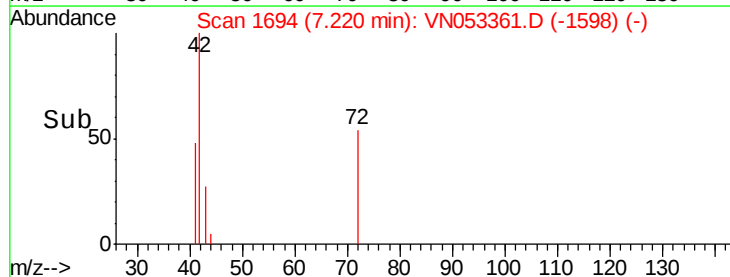
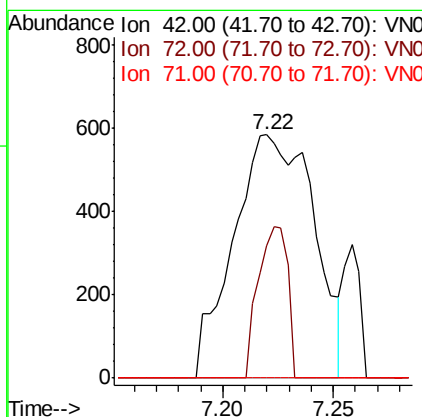
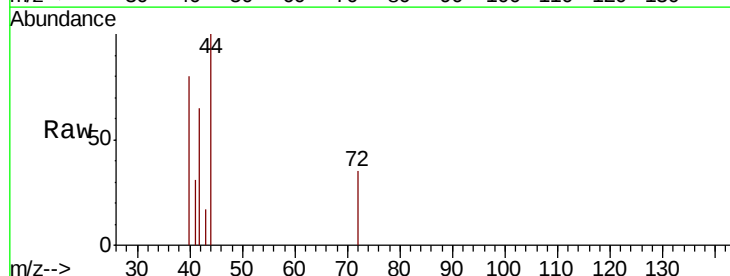
#25
 2-Butanone
 Concen: 0.364 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: VN053361.D
 Acq: 11 Jan 2019 12:56

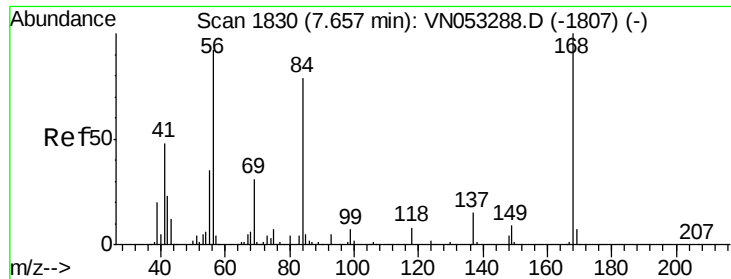
Tgt Ion: 43 Resp: 1530
 Ion Ratio Lower Upper
 43 100
 72 17.8 22.0 33.0#



#29
 Tetrahydrofuran
 Concen: 0.534 ug/l
 RT: 7.22 min Scan# 1694
 Delta R.T. 0.01 min
 Lab File: VN053361.D
 Acq: 11 Jan 2019 12:56

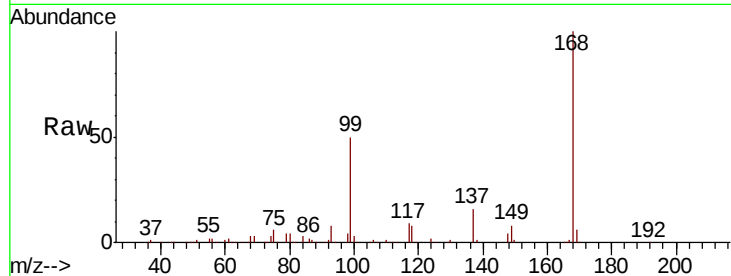
Tgt Ion: 42 Resp: 1480
 Ion Ratio Lower Upper
 42 100
 72 22.8 35.6 53.4#
 71 0.0 33.8 50.8#



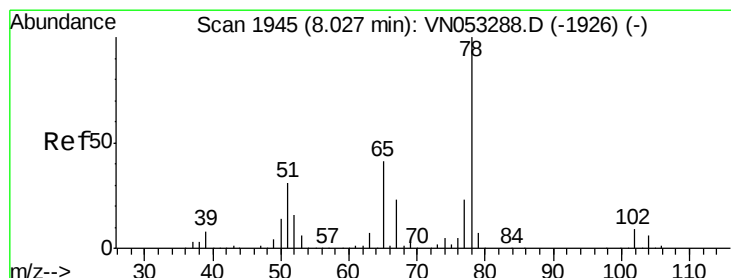
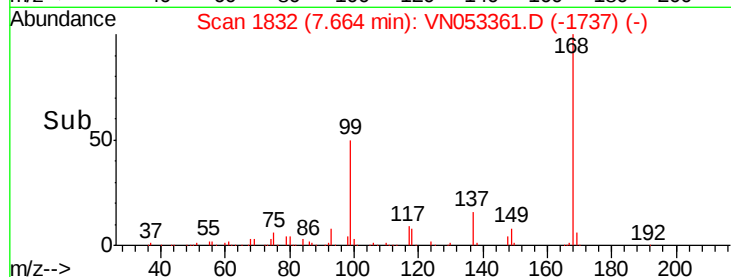
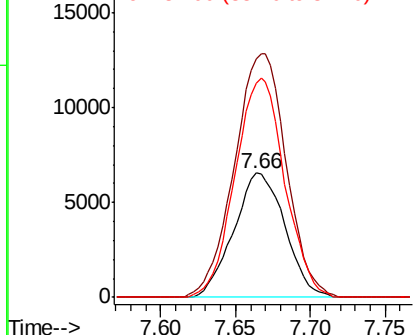


#31
Cyclohexane
Concen: 0.700 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN053361.D
Acq: 11 Jan 2019 12:56

Tgt Ion: 56 Resp: 15587
Ion Ratio Lower Upper
56 100
69 192.1 26.7 40.1#
84 172.5 68.2 102.4#

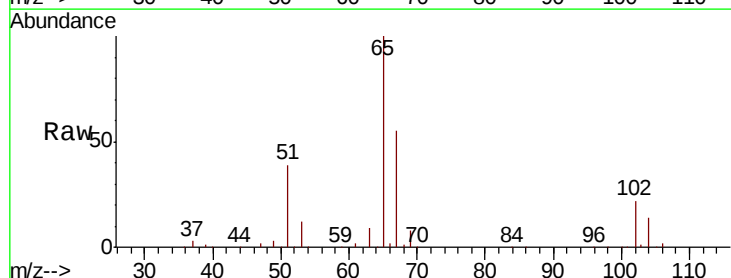


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

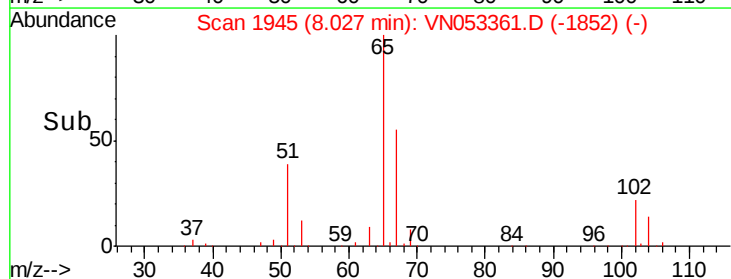
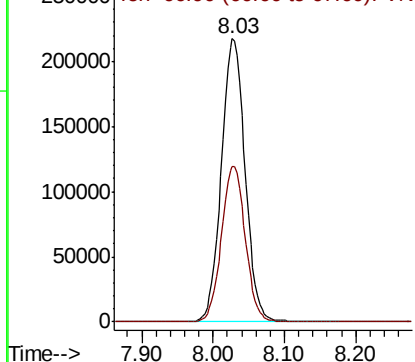


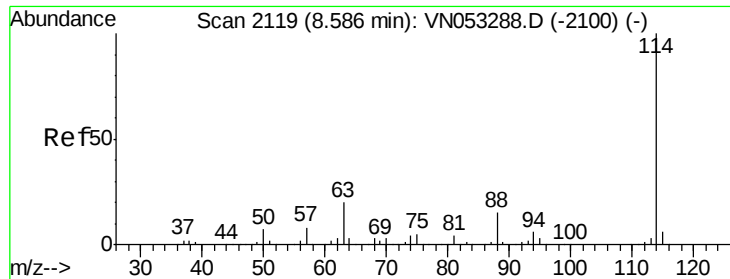
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN053361.D
Acq: 11 Jan 2019 12:56

Tgt Ion: 65 Resp: 502349
Ion Ratio Lower Upper
65 100
67 55.4 0.0 111.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

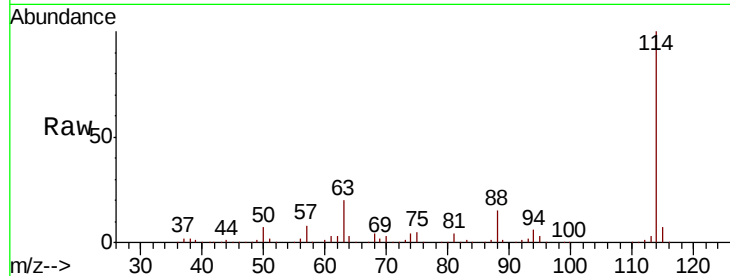




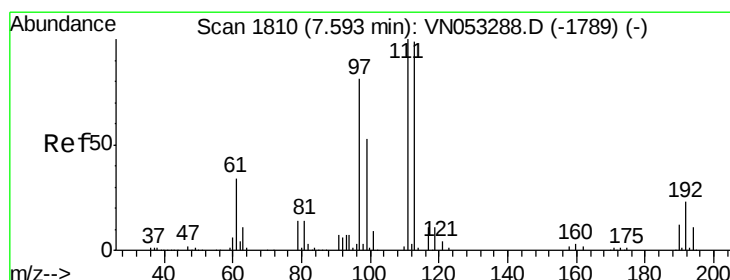
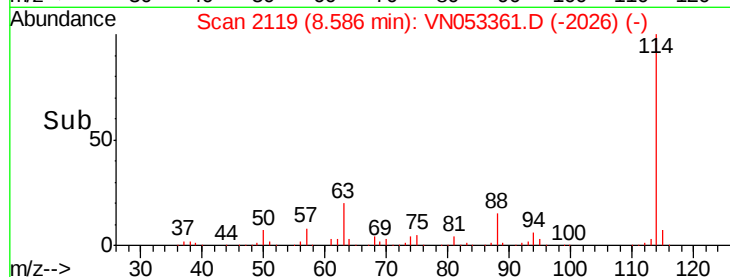
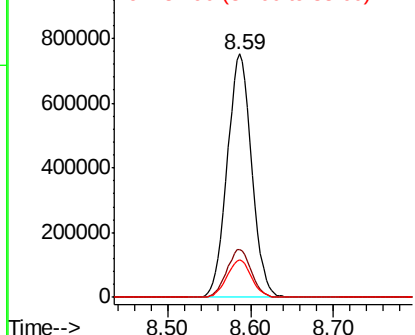
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN053361.D
Acq: 11 Jan 2019 12:56

Tgt Ion:114 Resp: 1538815

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	39.0
88	15.3	0.0	30.8



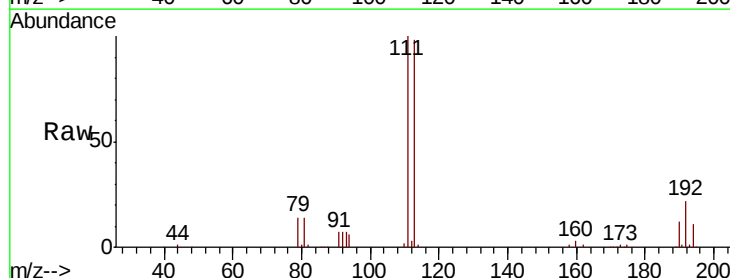
Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN



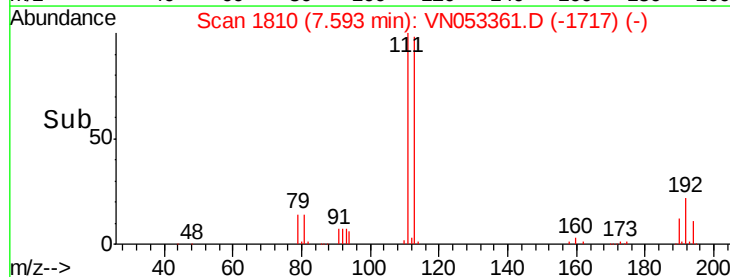
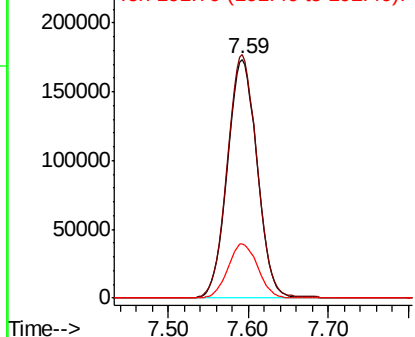
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN053361.D
Acq: 11 Jan 2019 12:56

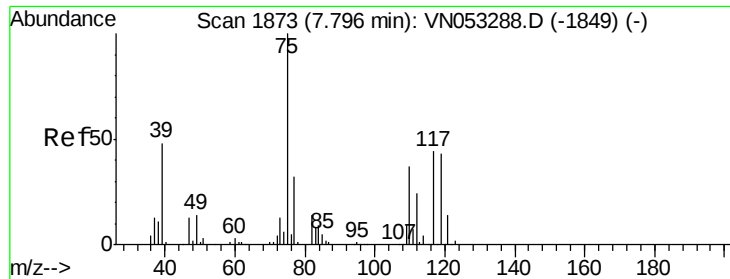
Tgt Ion:113 Resp: 438361

Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.4	122.2
192	22.7	17.9	26.9



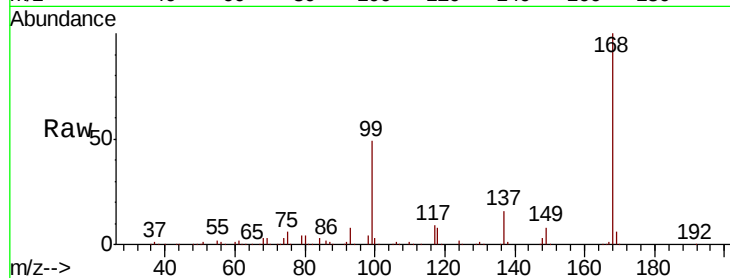
Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



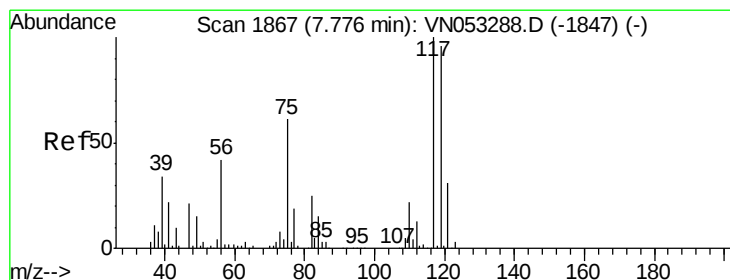
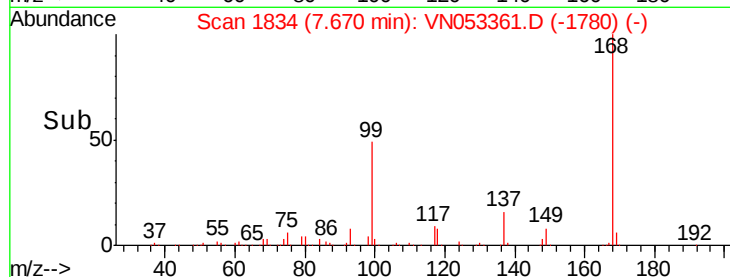
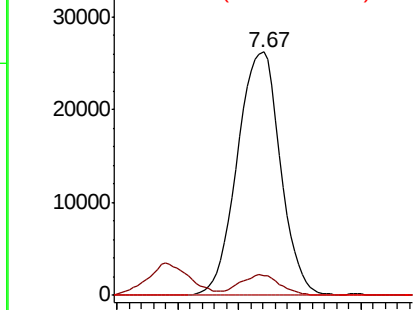


#36
 1,1-Dichloropropene
 Concen: 4.455 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.13 min
 Lab File: VN053361.D
 Acq: 11 Jan 2019 12:56

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.8	18.4	55.0#
77	0.0	25.3	37.9#

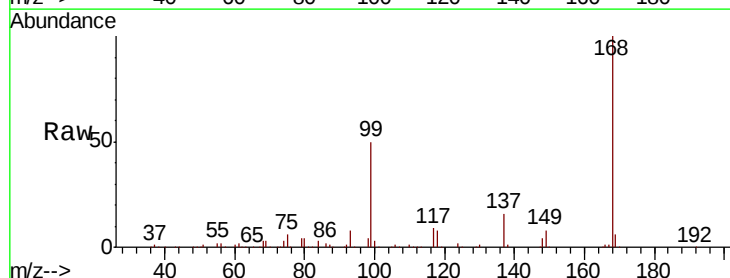


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

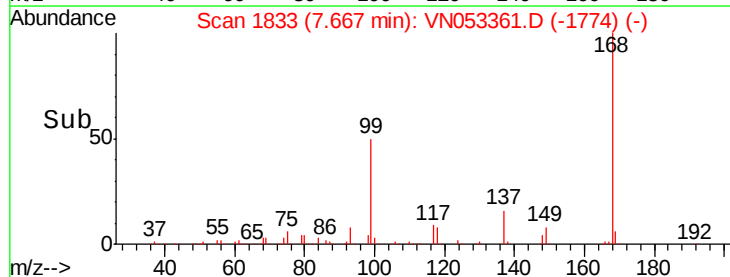
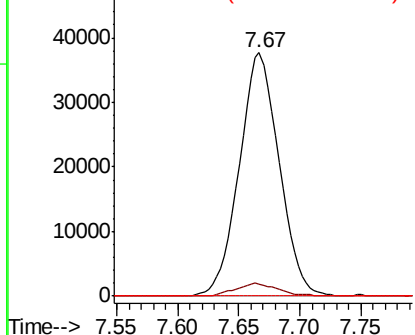


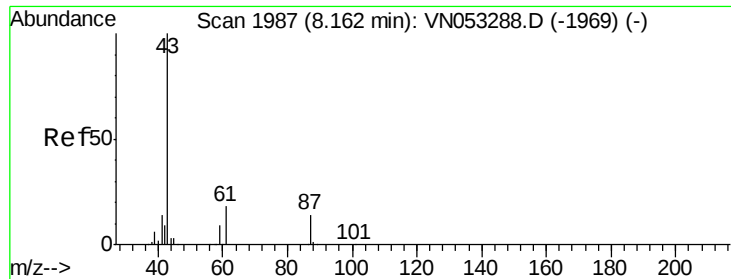
#38
 Carbon Tetrachloride
 Concen: 6.415 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN053361.D
 Acq: 11 Jan 2019 12:56

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.1	76.6	115.0#
121	0.0	25.0	37.4#



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





#43

Isopropyl Acetate

Concen: 2.572 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN053361.D

Acq: 11 Jan 2019 12:56

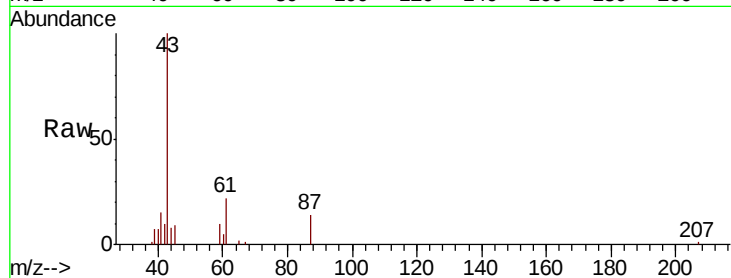
Tgt Ion: 43 Resp: 47347

Ion Ratio Lower Upper

43 100

61 17.7 23.3 34.9#

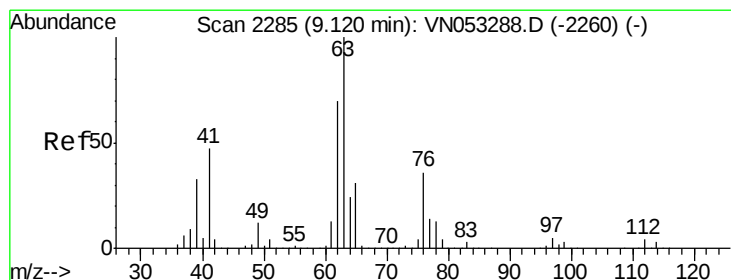
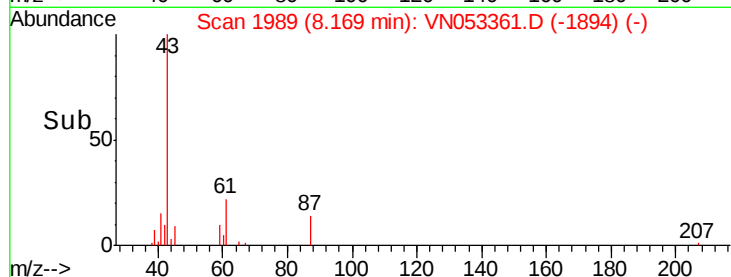
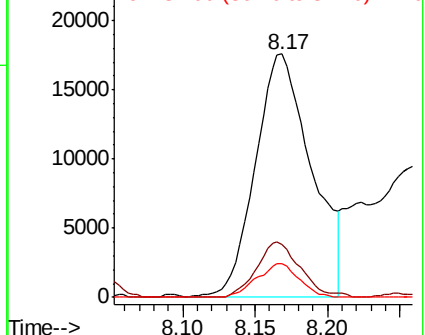
87 10.4 10.8 16.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.234 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN053361.D

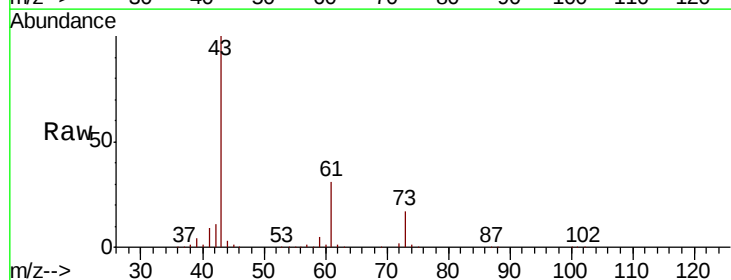
Acq: 11 Jan 2019 12:56

Tgt Ion: 63 Resp: 2689

Ion Ratio Lower Upper

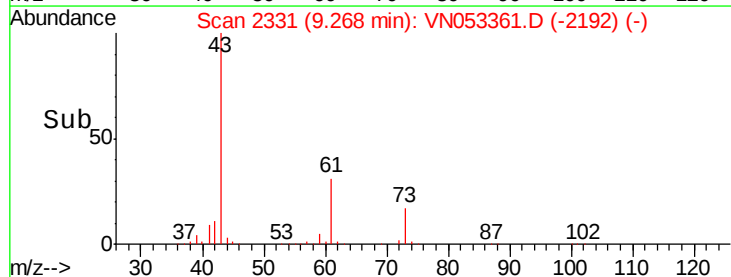
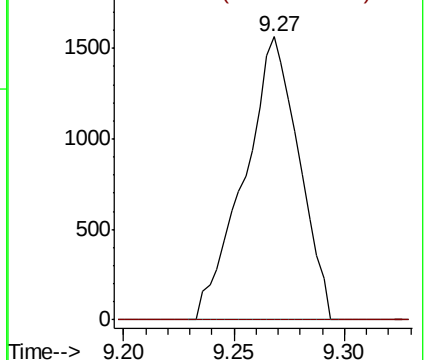
63 100

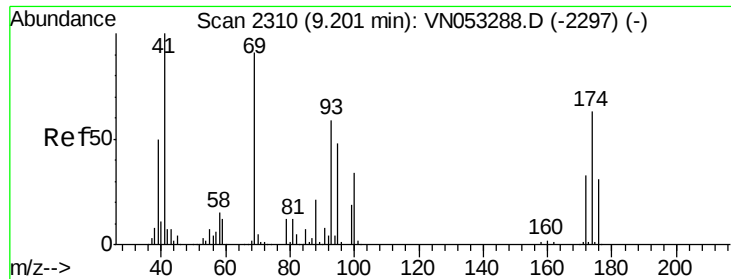
65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

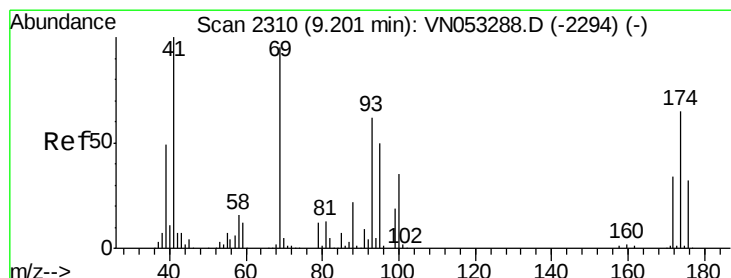
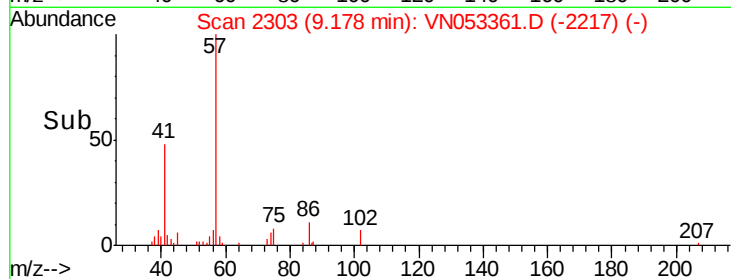
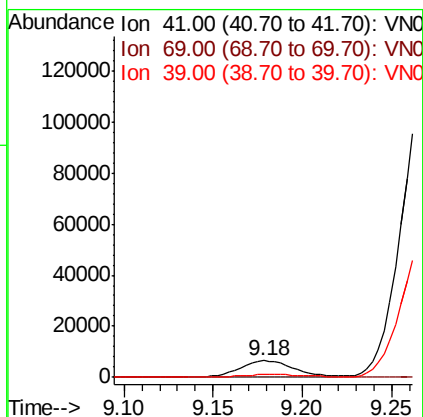
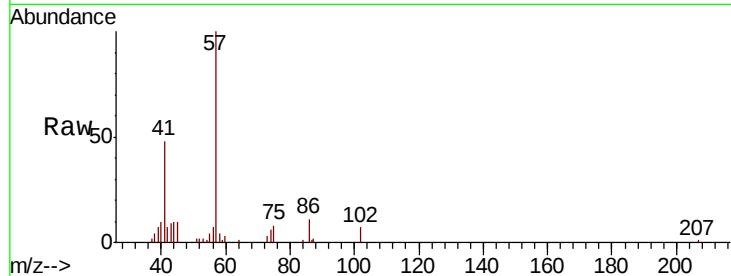
Ion 64.90 (64.60 to 65.60): VN0





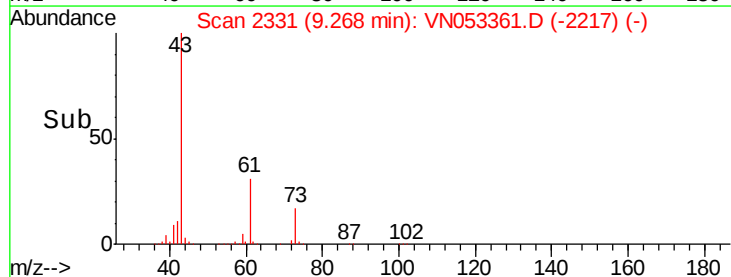
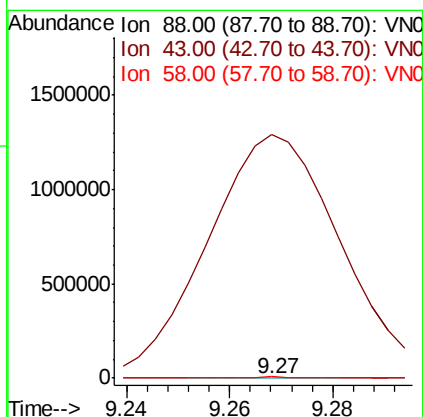
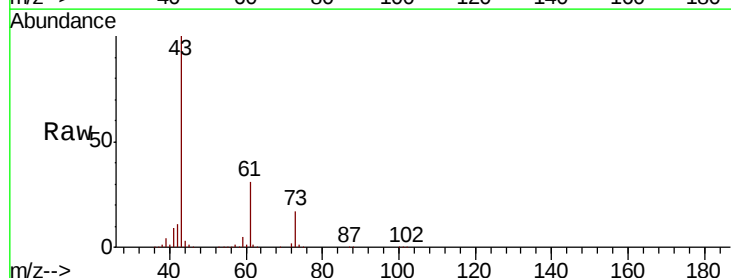
#48
Methyl methacrylate
Concen: 1.584 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN053361.D
Acq: 11 Jan 2019 12:56

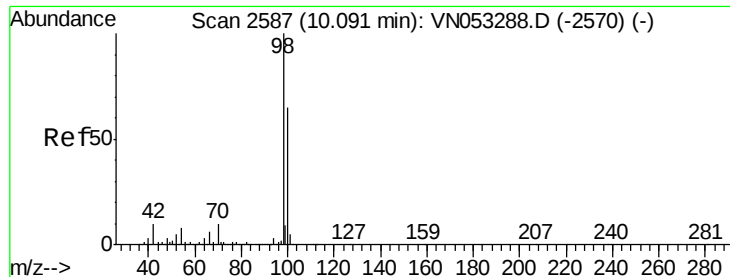
Tgt Ion: 41 Resp: 13249
Ion Ratio Lower Upper
41 100
69 0.0 73.5 110.3#
39 0.0 41.6 62.4#



#49
1,4-Dioxane
Concen: 3.266 ug/l
RT: 9.27 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN053361.D
Acq: 11 Jan 2019 12:56

Tgt Ion: 88 Resp: 291
Ion Ratio Lower Upper
88 100
43 806913.7 26.2 39.4#
58 3676.3 55.5 83.3#





#50

Toluene-d8

Concen: 3.266 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053361.D

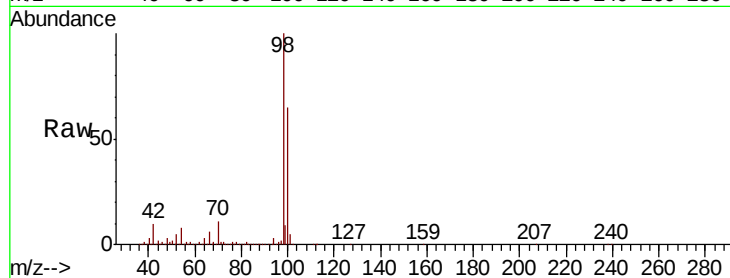
Acq: 11 Jan 2019 12:56

Tgt Ion: 98 Resp: 1909447

Ion Ratio Lower Upper

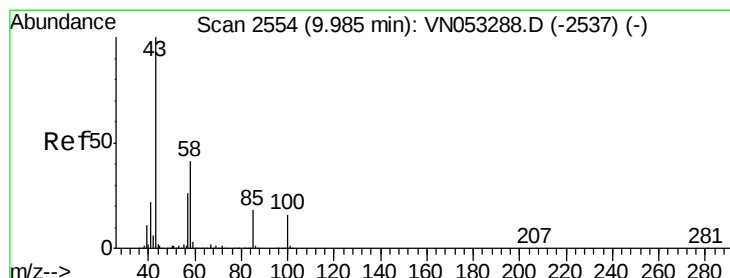
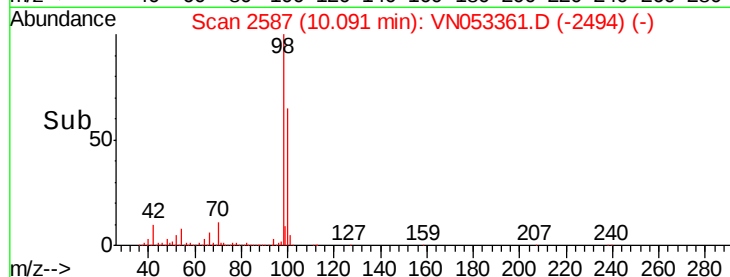
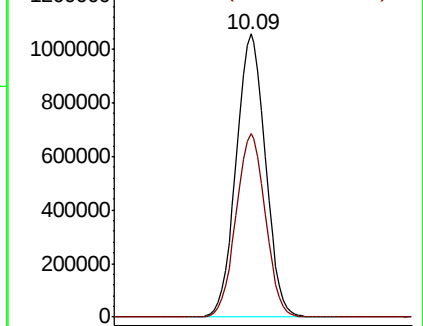
98 100

100 64.9 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 0.693 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN053361.D

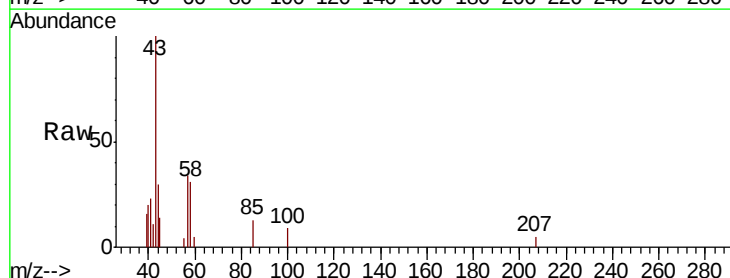
Acq: 11 Jan 2019 12:56

Tgt Ion: 43 Resp: 6419

Ion Ratio Lower Upper

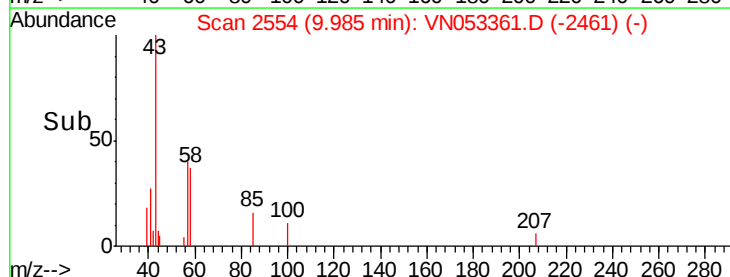
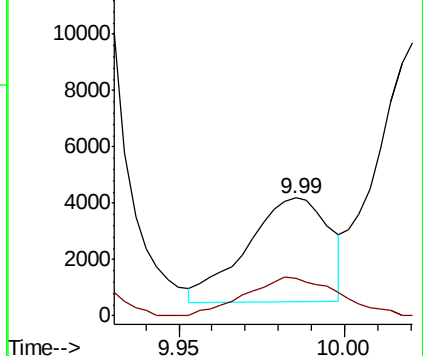
43 100

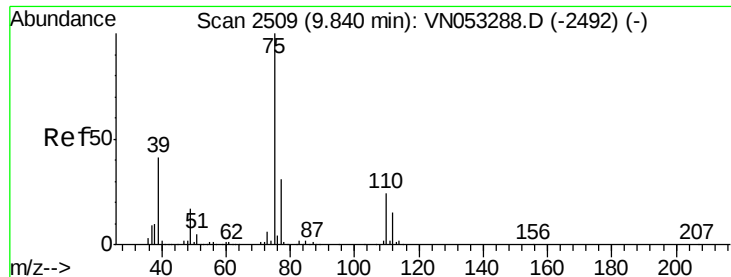
58 41.7 32.7 49.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#54

cis-1,3-Dichloropropene

Concen: 6.612 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN053361.D

Acq: 11 Jan 2019 12:56

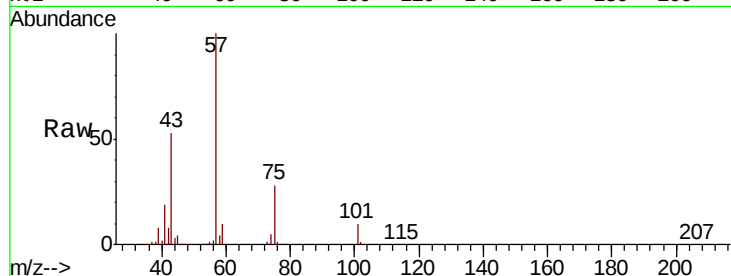
Tgt Ion: 75 Resp: 109308

Ion Ratio Lower Upper

75 100

77 0.4 25.1 37.7#

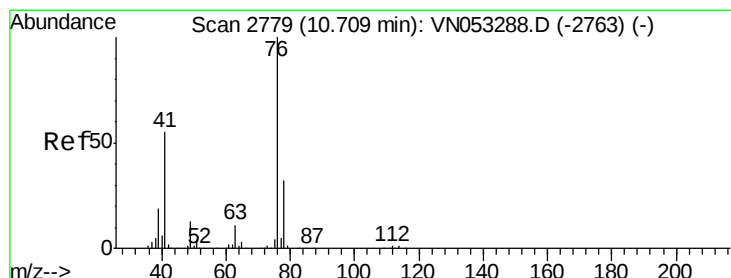
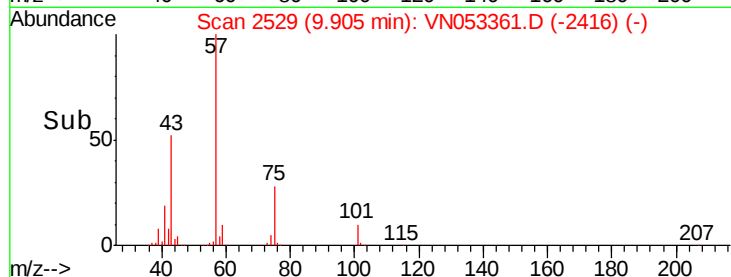
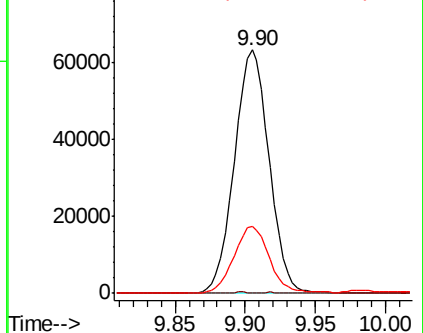
39 27.4 33.1 49.7#



Abundance Ion 74.90 (74.60 to 75.60): VN053288.D (-2492) (-)

Ion 76.90 (76.60 to 77.60): VN053288.D (-2492) (-)

Ion 39.00 (38.70 to 39.70): VN053288.D (-2492) (-)



#57

1,3-Dichloropropane

Concen: 1.439 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN053361.D

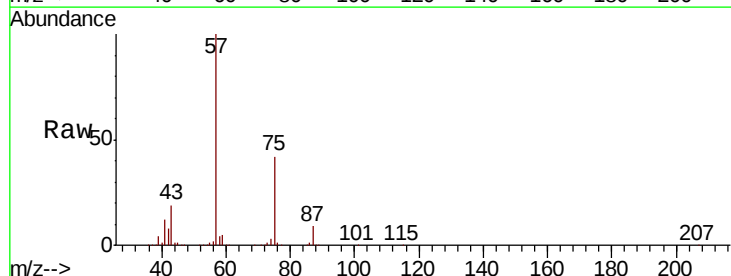
Acq: 11 Jan 2019 12:56

Tgt Ion: 76 Resp: 23818

Ion Ratio Lower Upper

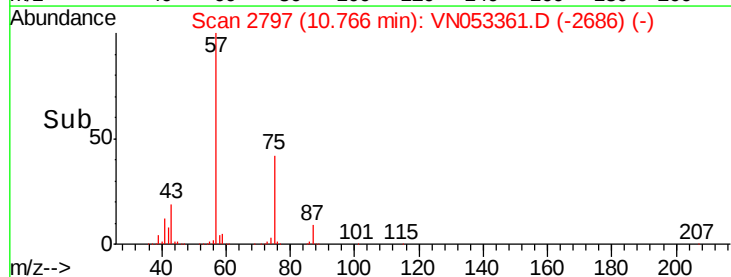
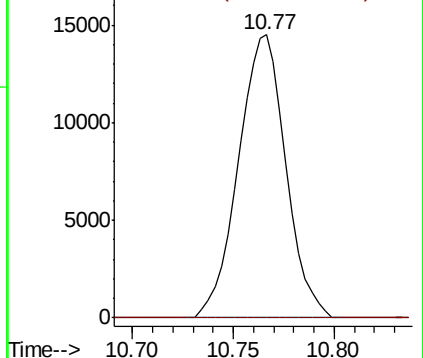
76 100

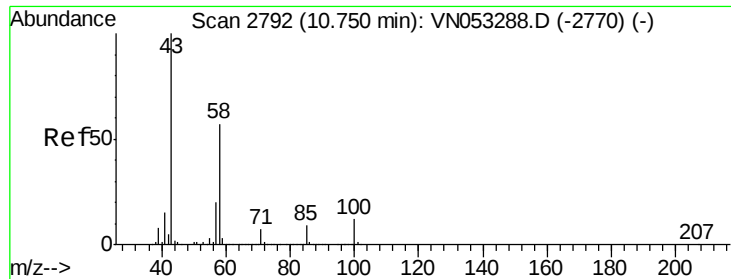
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN053288.D (-2763) (-)

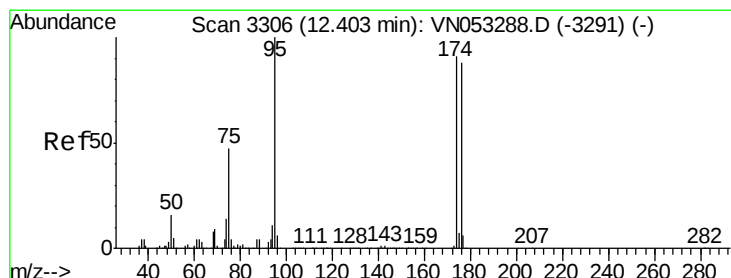
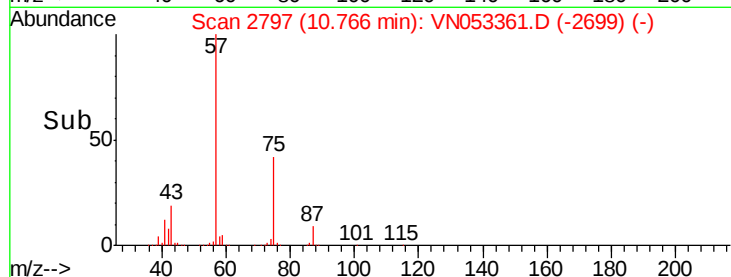
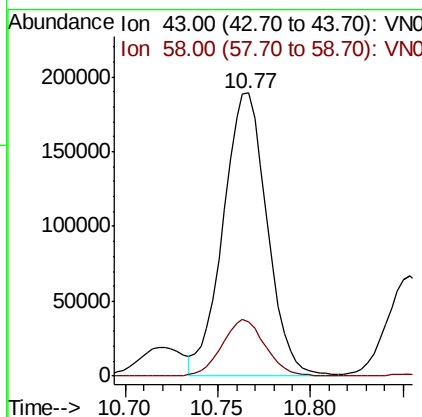
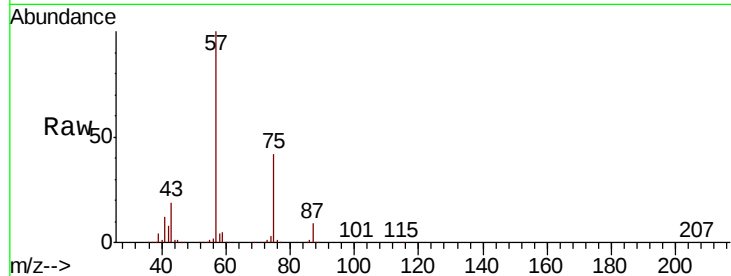
Ion 77.90 (77.60 to 78.60): VN053288.D (-2763) (-)





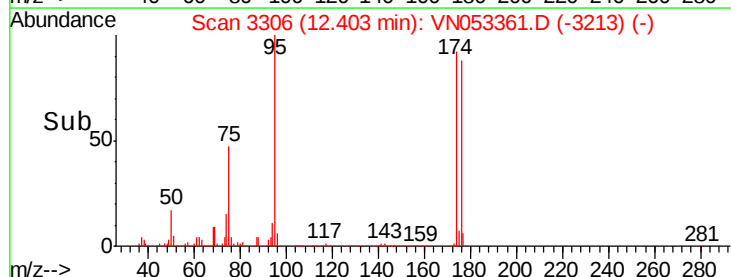
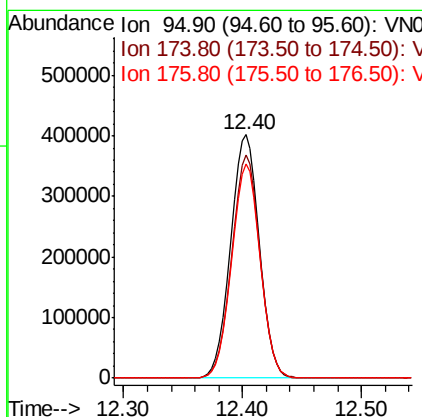
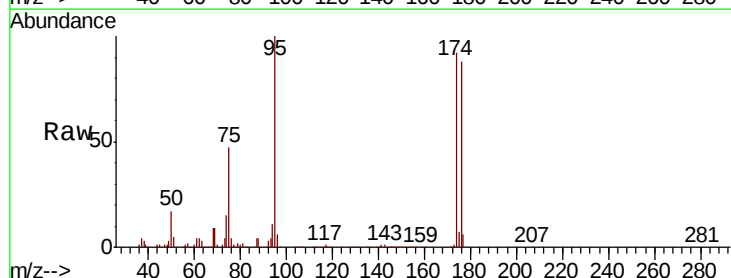
#59
2-Hexanone
Concen: 48.745 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.02 min
Lab File: VN053361.D
Acq: 11 Jan 2019 12:56

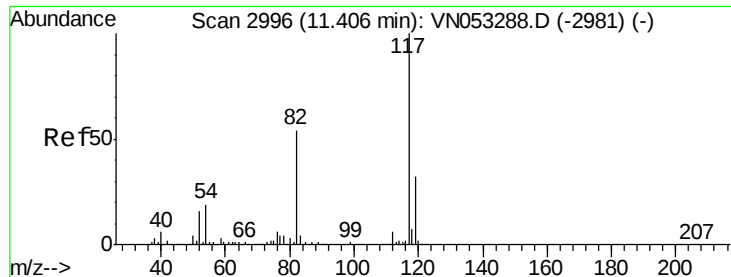
Tgt Ion: 43 Resp: 309172
Ion Ratio Lower Upper
43 100
58 19.8 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053361.D
Acq: 11 Jan 2019 12:56

Tgt Ion: 95 Resp: 669999
Ion Ratio Lower Upper
95 100
174 90.2 0.0 180.4
176 87.5 0.0 175.6

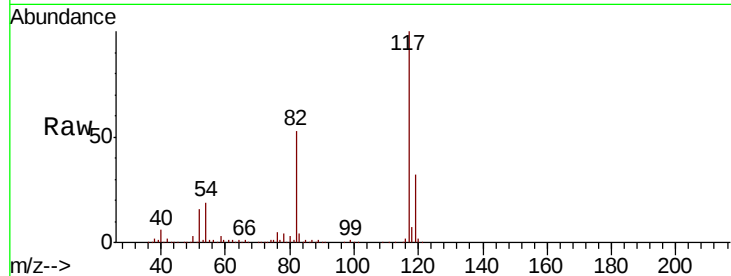




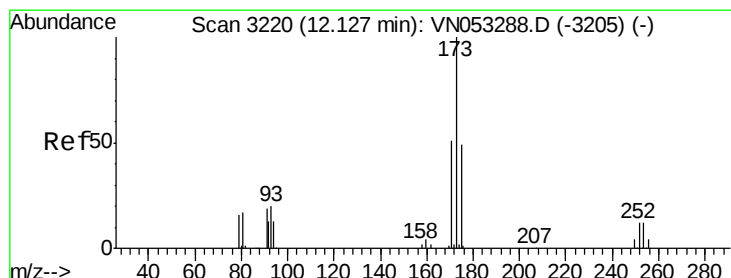
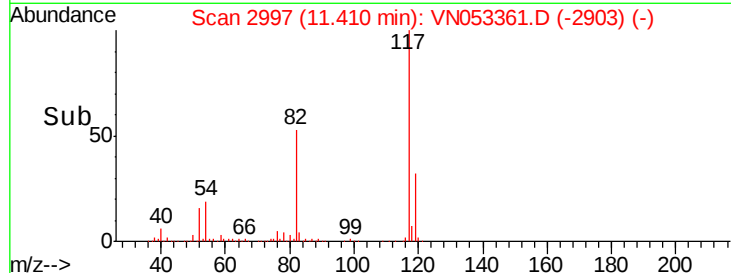
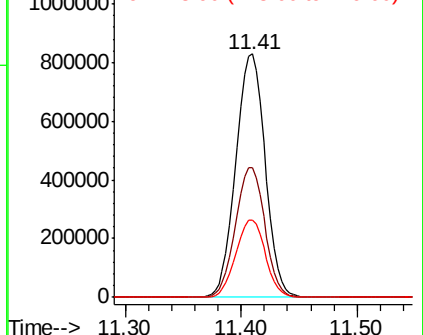
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053361.D
Acq: 11 Jan 2019 12:56

Tgt Ion:117 Resp: 1453864

Ion	Ratio	Lower	Upper
117	100		
82	53.1	42.9	64.3
119	31.9	25.6	38.4



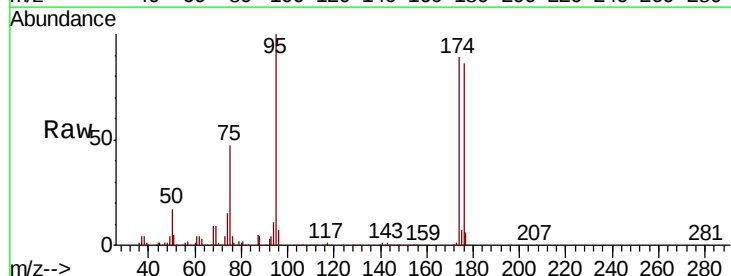
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN0
Ion 118.90 (118.60 to 119.60): V



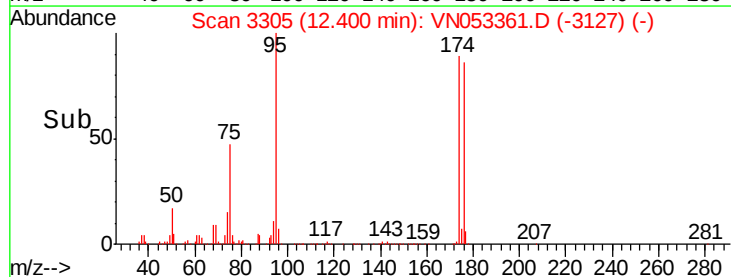
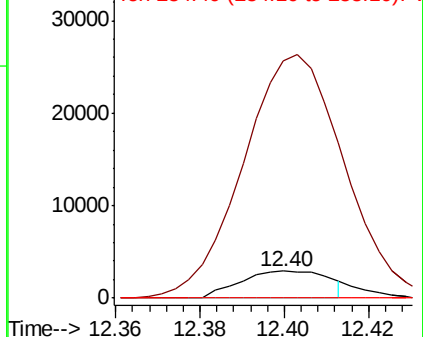
#71
Bromoform
Concen: 0.549 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN053361.D
Acq: 11 Jan 2019 12:56

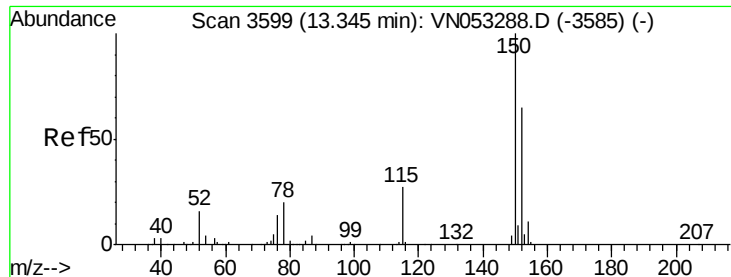
Tgt Ion:173 Resp: 4286

Ion	Ratio	Lower	Upper
173	100		
175	882.3	24.3	72.8#
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: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053361.D

Acq: 11 Jan 2019 12:56

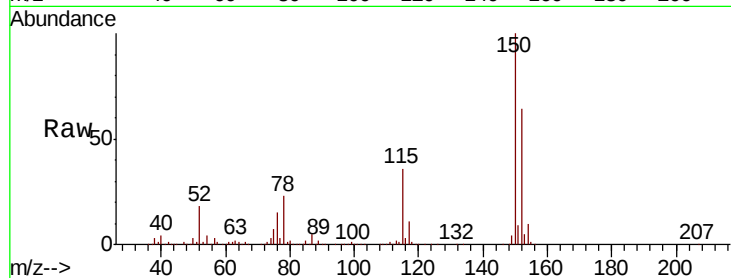
Tgt Ion:152 Resp: 637652

Ion Ratio Lower Upper

152 100

115 56.2 28.0 84.0

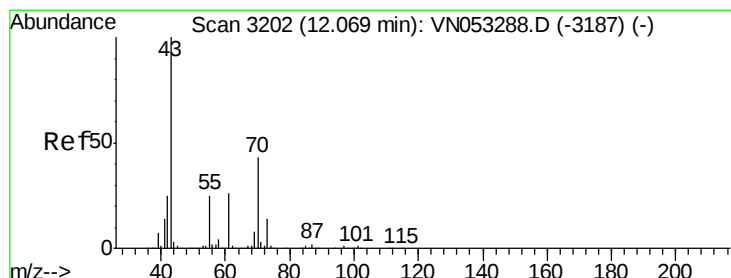
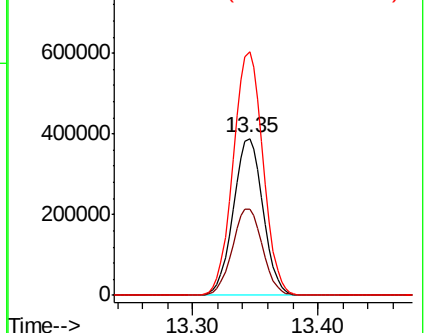
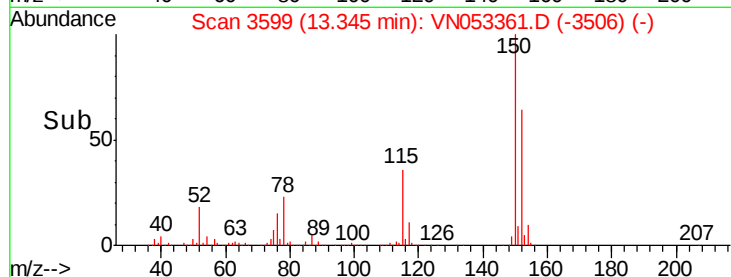
150 156.4 0.0 346.6



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-ethyl acetate

Concen: 2.548 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053361.D

Acq: 11 Jan 2019 12:56

Tgt Ion: 43 Resp: 36123

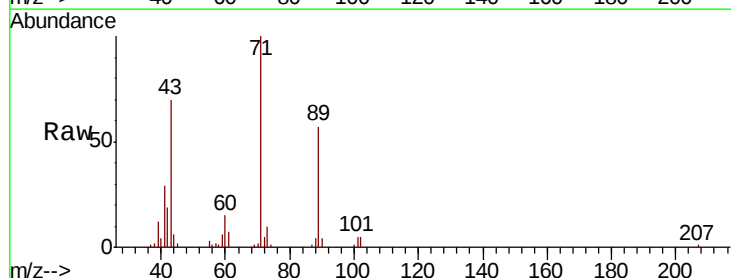
Ion Ratio Lower Upper

43 100

70 2.4 35.0 52.6#

55 4.4 20.0 30.0#

61 10.9 20.3 30.5#

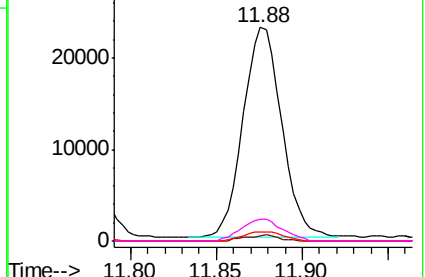
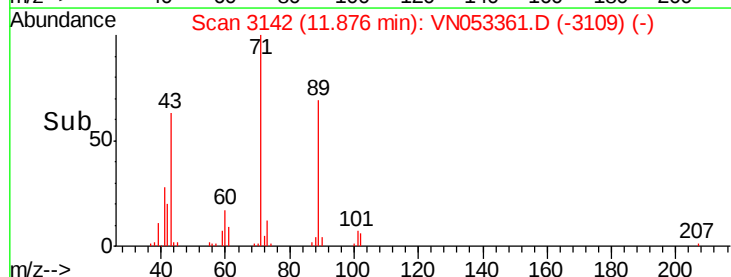


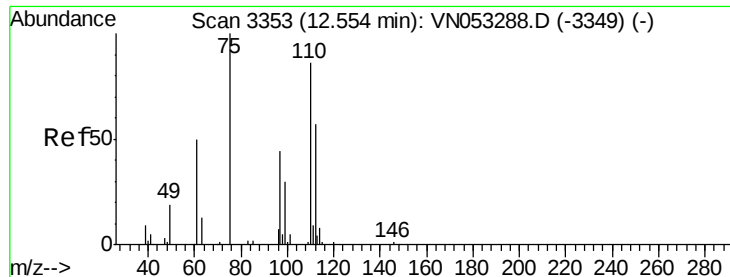
Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 70.00 (69.70 to 70.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 61.00 (60.70 to 61.70): VN





#76

1,2,3-Trichloropropane

Concen: 33.551 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053361.D

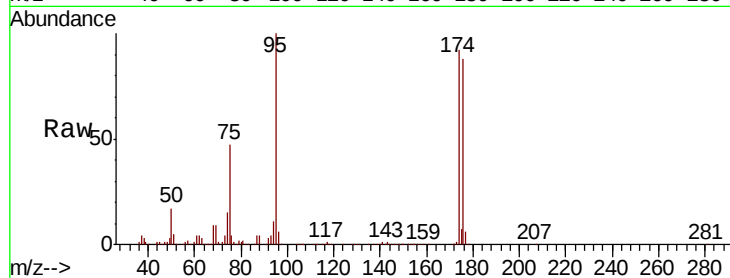
Acq: 11 Jan 2019 12:56

Tgt Ion: 75 Resp: 312042

Ion Ratio Lower Upper

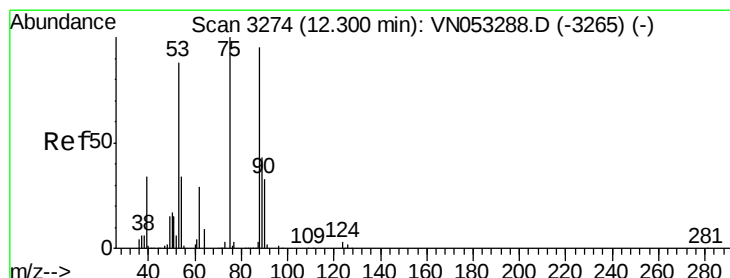
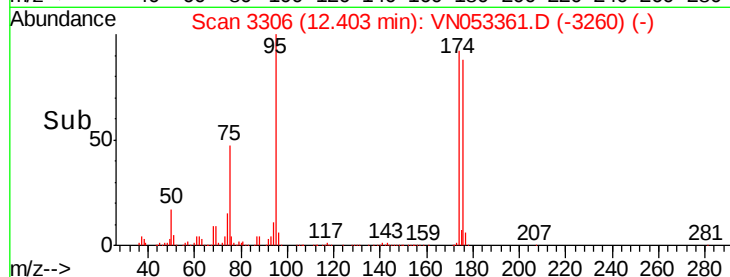
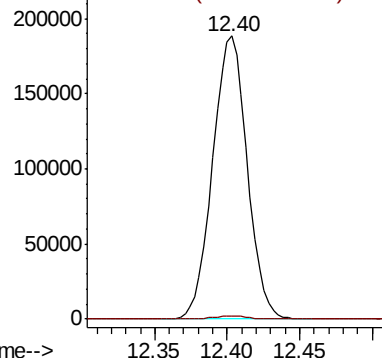
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 98.713 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053361.D

Acq: 11 Jan 2019 12:56

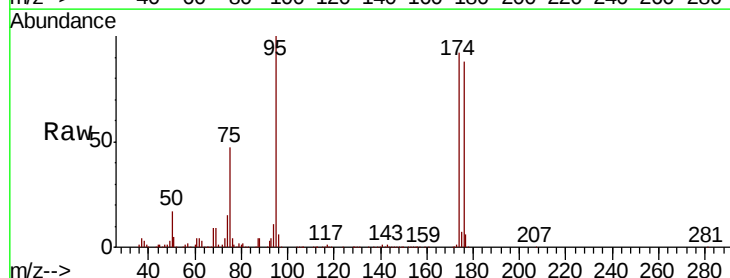
Tgt Ion: 75 Resp: 312042

Ion Ratio Lower Upper

75 100

53 0.0 70.5 105.7#

89 0.0 35.4 53.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

