

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020719\
 Data File : VN053653.D
 Acq On : 7 Feb 2019 14:06
 Operator : JC/SP
 Sample : PB116887ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 28

Quant Time: Feb 09 00:28:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	751015	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1247806	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1140654	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	479524	50.00	ug/l	0.00

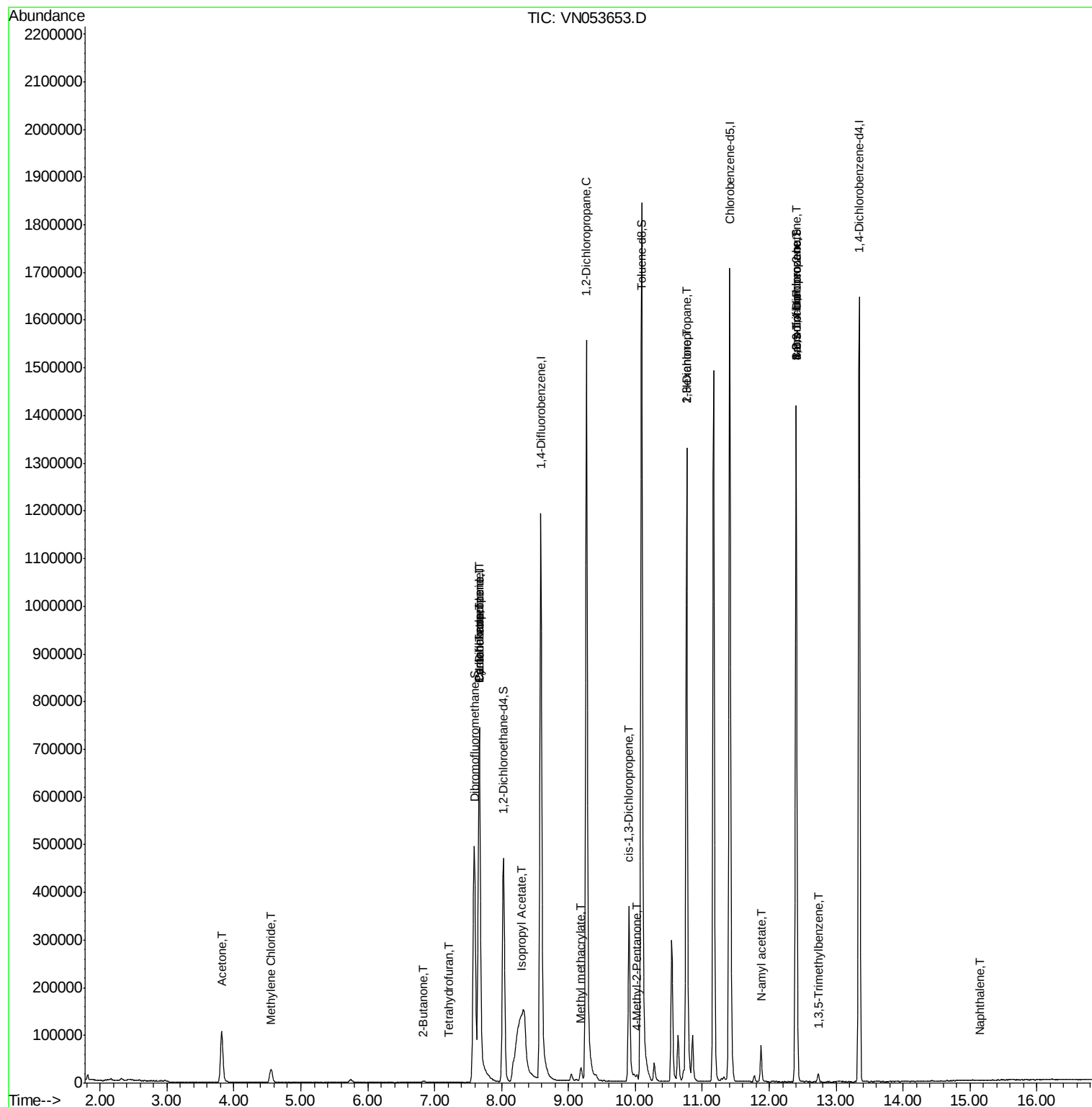
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	403561	53.56	ug/l	0.00
Spiked Amount			Recovery	=	107.12%	
35) Dibromofluoromethane	7.59	113	396371	50.27	ug/l	0.00
Spiked Amount			Recovery	=	100.54%	
50) Toluene-d8	10.09	98	1499811	50.66	ug/l	0.00
Spiked Amount			Recovery	=	101.32%	
62) 4-Bromofluorobenzene	12.40	95	500523	50.69	ug/l	0.00
Spiked Amount			Recovery	=	101.38%	

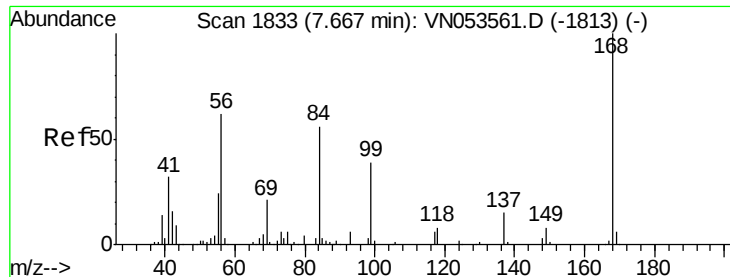
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	182487	94.429	ug/l	98
20) Methylene Chloride	4.56	84	21730	2.680	ug/l	91
25) 2-Butanone	6.83	43	1102	0.400	ug/l	99
29) Tetrahydrofuran	7.21	42	891	0.503	ug/l #	41
31) Cyclohexane	7.66	56	11144	0.708	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	45474	4.043	ug/l #	49
38) Carbon Tetrachloride	7.66	117	60881	5.373	ug/l #	16
43) Isopropyl Acetate	8.29	43	282061	23.249	ug/l #	51
45) 1,2-Dichloropropane	9.26	63	2041	0.230	ug/l #	43
48) Methyl methacrylate	9.18	41	11294	1.950	ug/l #	12
51) 4-Methyl-2-Pentanone	10.02	43	9663	1.621	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	79087	5.994	ug/l #	62
57) 1,3-Dichloropropane	10.76	76	14938	1.178	ug/l #	43
59) 2-Hexanone	10.77	43	200677	49.583	ug/l #	50
71) Bromoform	12.40	173	3426	0.591	ug/l #	1
74) N-amyl acetate	11.88	43	22777	2.810	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	230469	37.419	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	8726	0.312	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.40	75	230469	105.218	ug/l #	15
95) Naphthalene	15.14	128	202	1.746	ug/l #	69

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053653.D

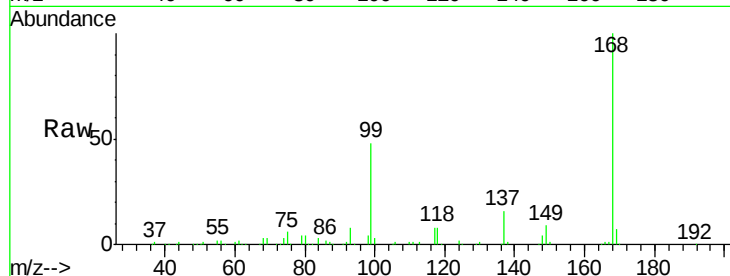
Acq: 7 Feb 2019 14:06

Tot Ion:168 Resp: 751015

Ion Ratio Lower Upper

168 100

99 48.0 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): VN053653.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN053653.D (-1740) (-)

7.67

300000

250000

200000

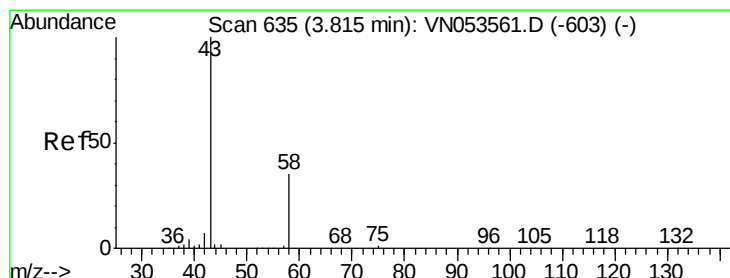
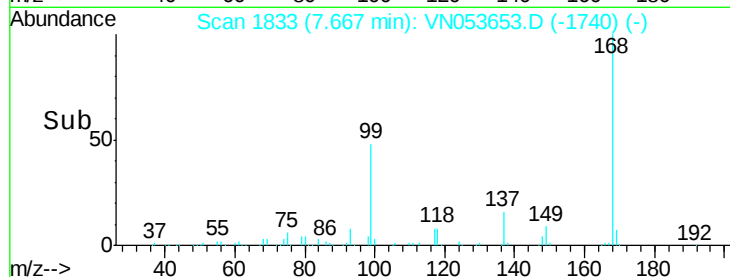
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#16

Acetone

Concen: 94.429 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN053653.D

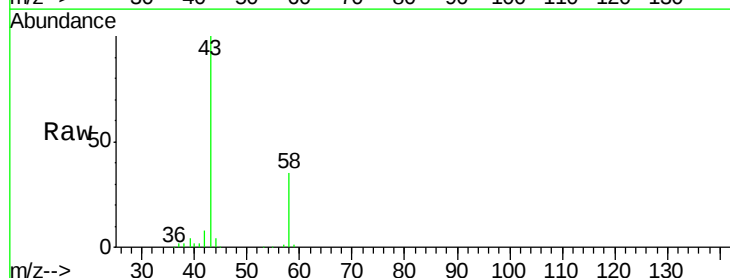
Acq: 7 Feb 2019 14:06

Tgt Ion: 43 Resp: 182487

Ion Ratio Lower Upper

43 100

58 34.9 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN053653.D (-542) (-)

Ion 58.00 (57.70 to 58.70): VN053653.D (-542) (-)

3.82

80000

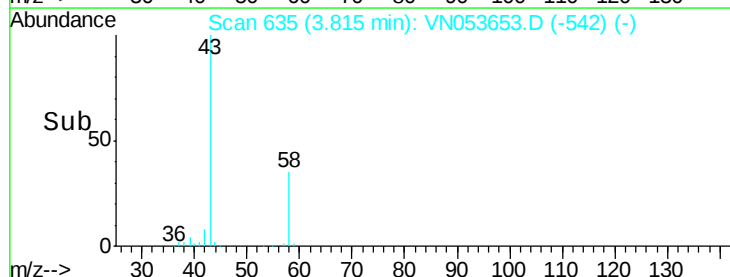
60000

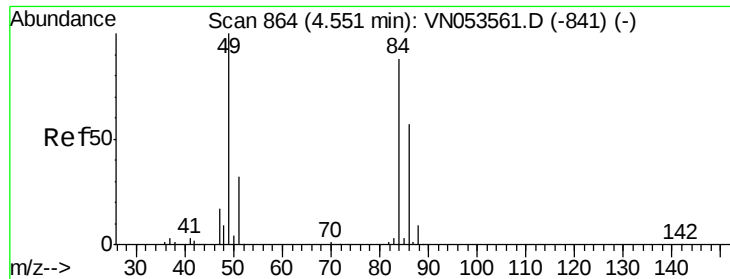
40000

20000

0

Time--> 3.70 3.80 3.90

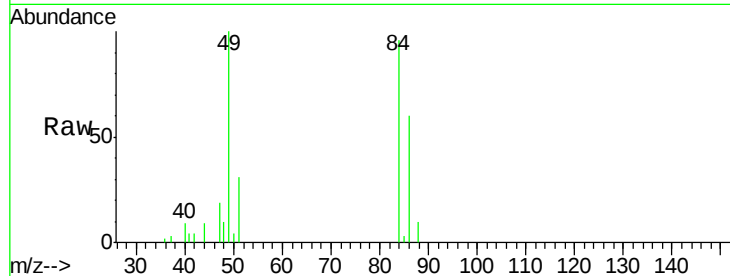




#20
Methvlene Chloride
Concen: 2.680 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN053653.D
Acq: 7 Feb 2019 14:06

Tot Ion: 84 Resp: 21730

Ion	Ratio	Lower	Upper
84	100		
49	104.3	94.3	141.5
51	32.5	29.4	44.2
86	62.5	51.4	77.0



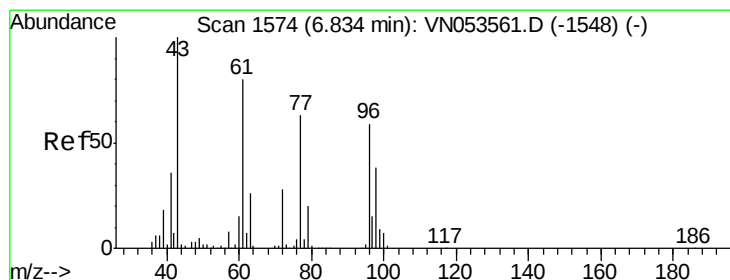
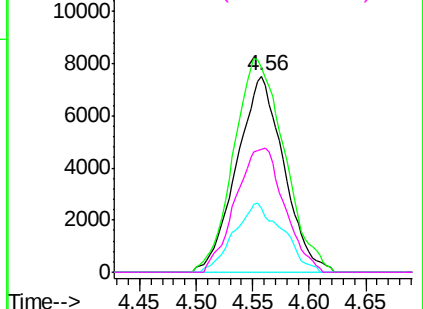
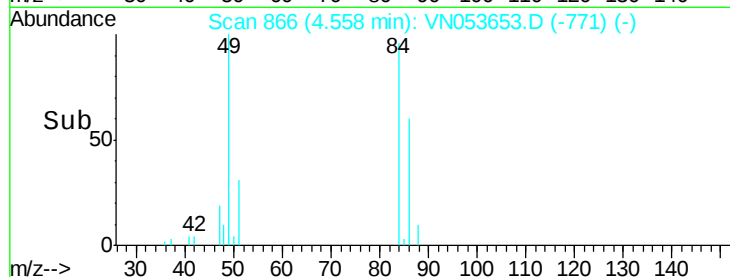
Abundance

Ion 83.90 (83.60 to 84.60): VNC

Ion 48.90 (48.60 to 49.60): VNC

Ion 50.90 (50.60 to 51.60): VNC

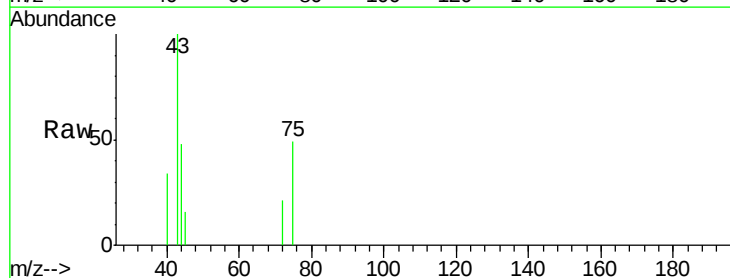
Ion 85.90 (85.60 to 86.60): VNC



#25
2-Butanone
Concen: 0.400 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. -0.00 min
Lab File: VN053653.D
Acq: 7 Feb 2019 14:06

Tgt Ion: 43 Resp: 1102

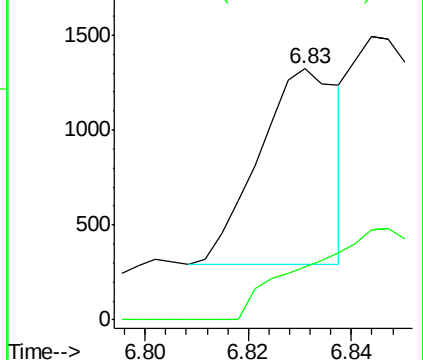
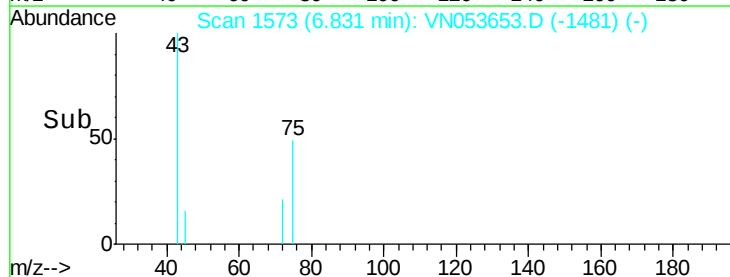
Ion	Ratio	Lower	Upper
43	100		
72	26.8	22.0	33.0

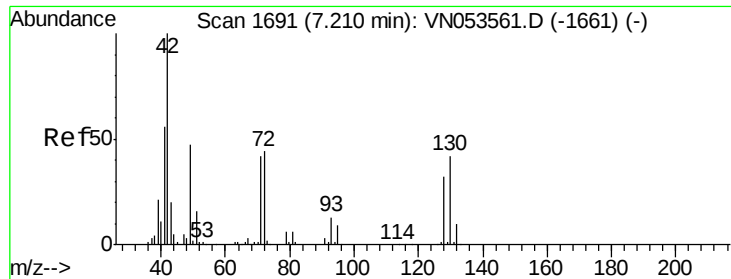


Abundance

Ion 43.00 (42.70 to 43.70): VNC

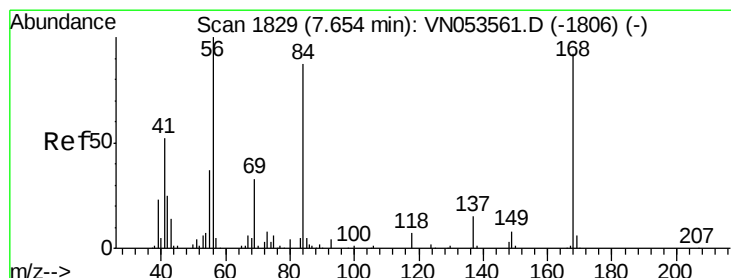
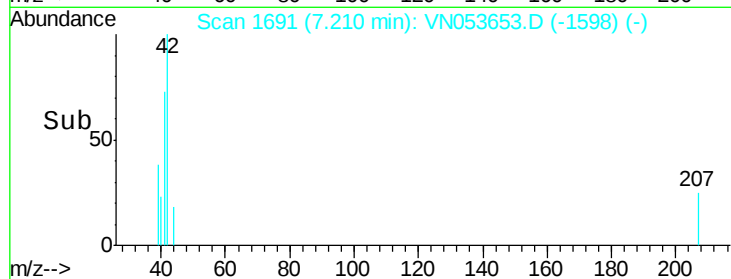
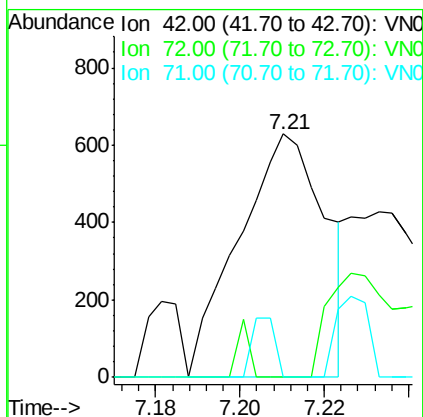
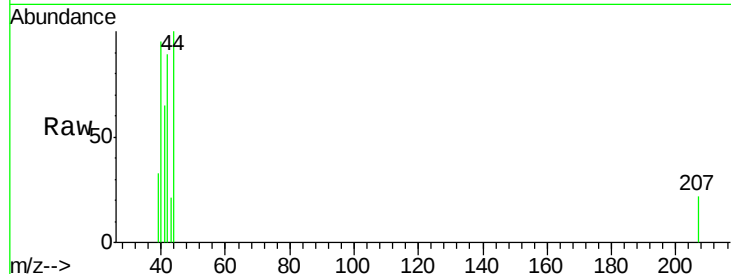
Ion 72.00 (71.70 to 72.70): VNC





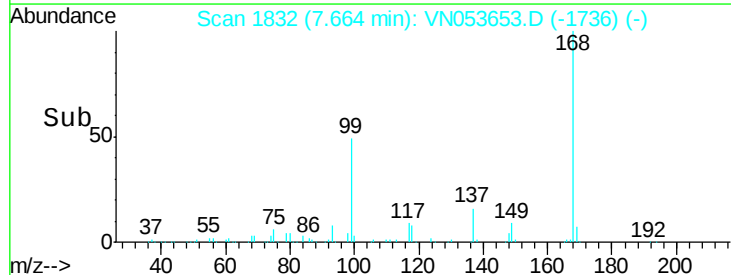
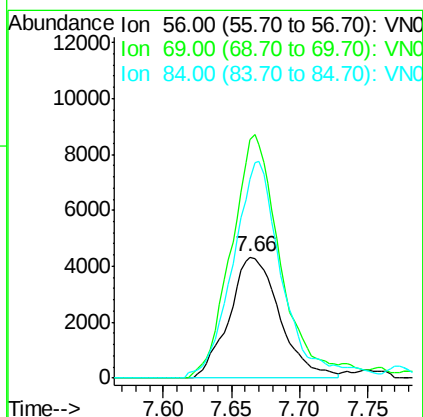
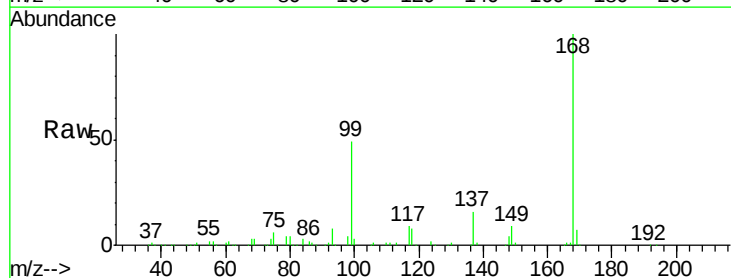
#29
Tetrahydrofuran
Concen: 0.503 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053653.D
Acq: 7 Feb 2019 14:06

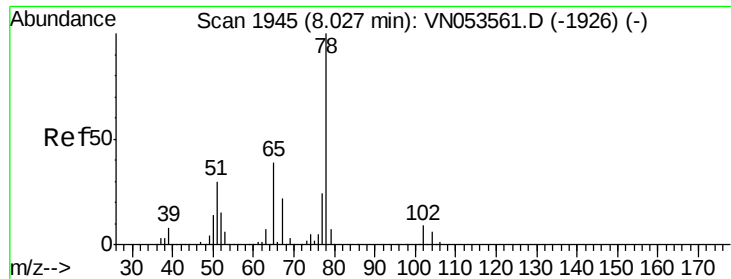
Tot Ion: 42 Resp: 891
Ion Ratio Lower Upper
42 100
72 3.3 35.2 52.8#
71 6.6 33.0 49.4#



#31
Cyclohexane
Concen: 0.708 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN053653.D
Acq: 7 Feb 2019 14:06

Tgt Ion: 56 Resp: 11144
Ion Ratio Lower Upper
56 100
69 196.4 26.4 39.6#
84 159.4 67.9 101.9#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053653.D

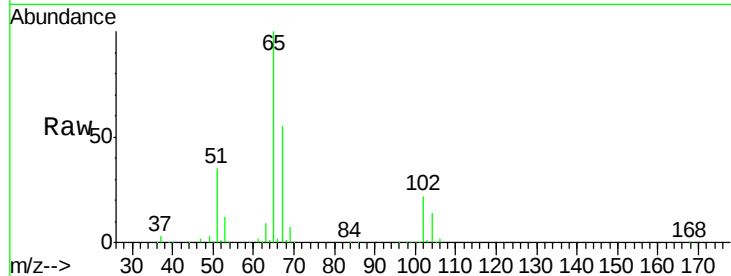
Acq: 7 Feb 2019 14:06

Tot Ion: 65 Resp: 403561

Ion Ratio Lower Upper

65 100

67 55.0 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VN053653.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN053653.D (-1852) (-)

8.03

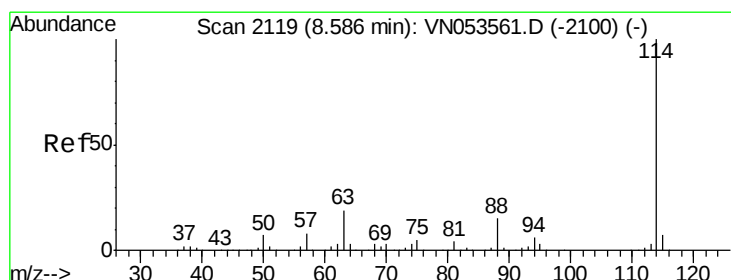
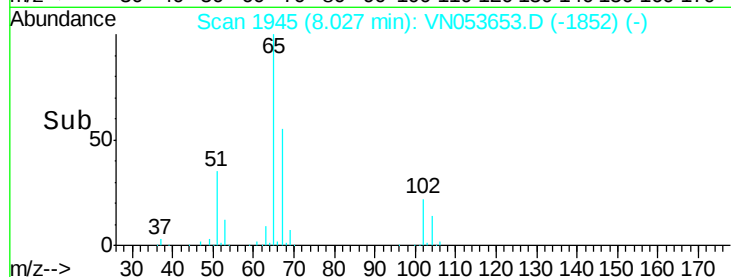
150000

100000

50000

0

Time--> 7.90 8.00 8.10 8.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053653.D

Acq: 7 Feb 2019 14:06

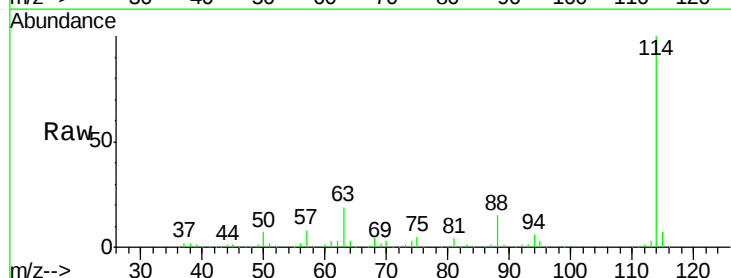
Tgt Ion: 114 Resp: 1247806

Ion Ratio Lower Upper

114 100

63 19.0 0.0 38.6

88 15.3 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): VN053653.D (-2026) (-)

Ion 63.00 (62.70 to 63.70): VN053653.D (-2026) (-)

Ion 87.90 (87.60 to 88.60): VN053653.D (-2026) (-)

8.59

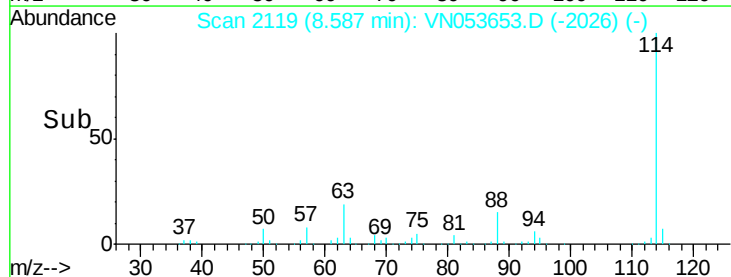
600000

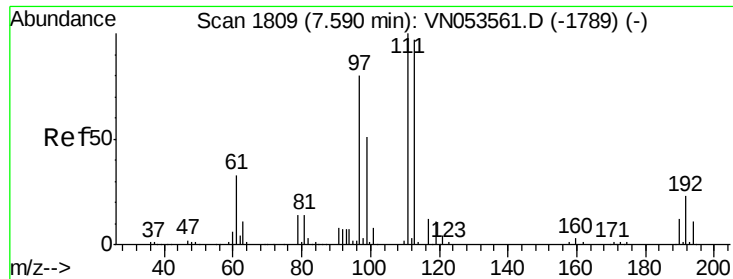
400000

200000

0

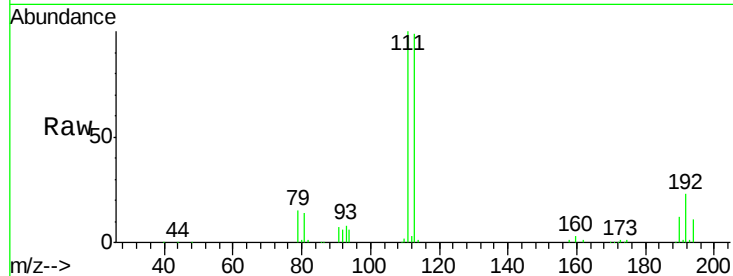
Time--> 8.40 8.60 8.80



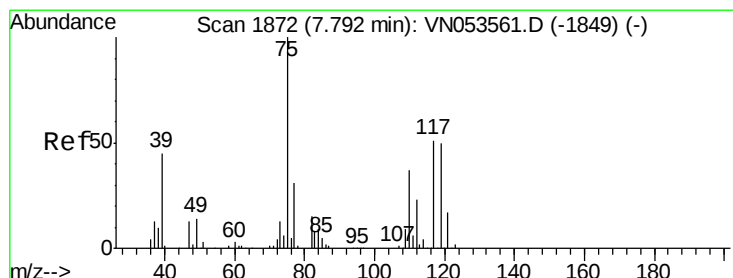
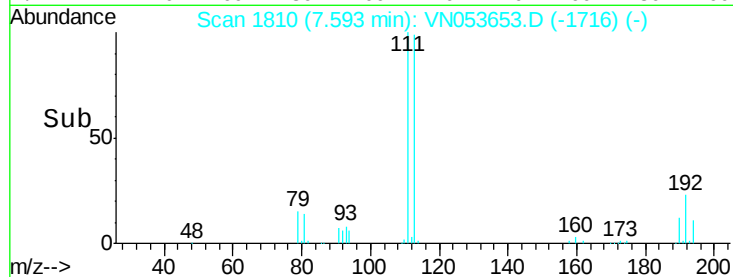
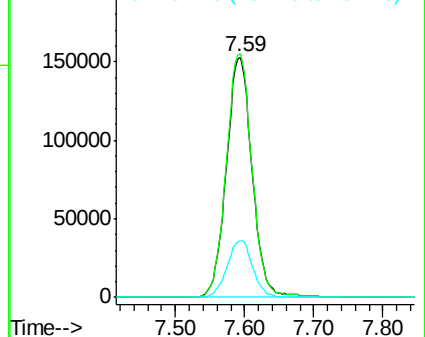


#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053653.D
 Acq: 7 Feb 2019 14:06

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.2	81.1	121.7
192	23.6	18.2	27.2

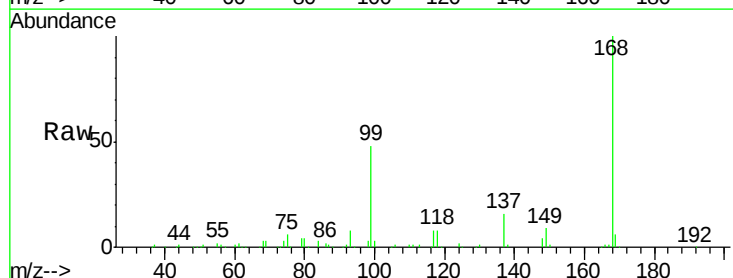


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

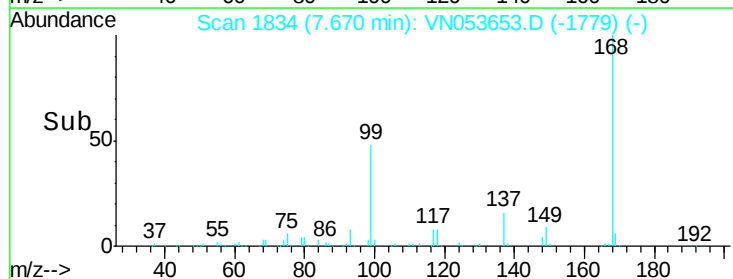
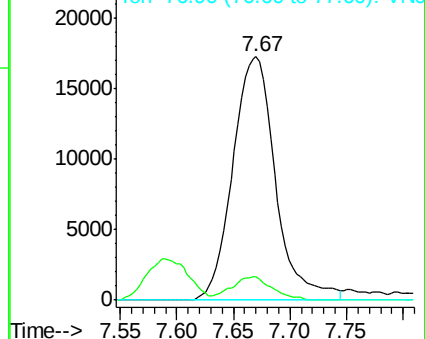


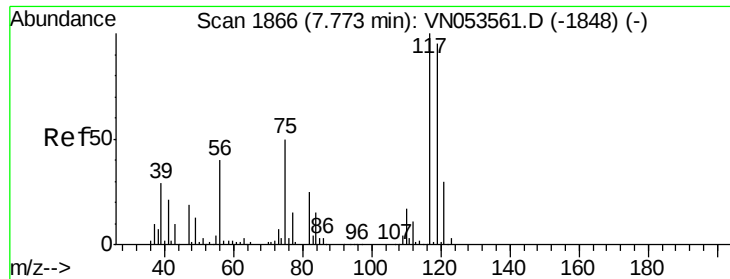
#36
 1,1-Dichloropropene
 Concen: 4.043 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN053653.D
 Acq: 7 Feb 2019 14:06

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.1	18.1	54.3#
77	0.0	25.1	37.7#



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





#38

Carbon Tetrachloride

Concen: 5.373 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN053653.D

Acq: 7 Feb 2019 14:06

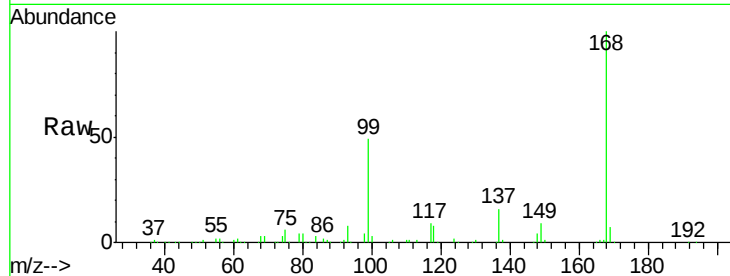
Tot Ion:117 Resp: 60881

Ion Ratio Lower Upper

117 100

119 5.6 77.2 115.8#

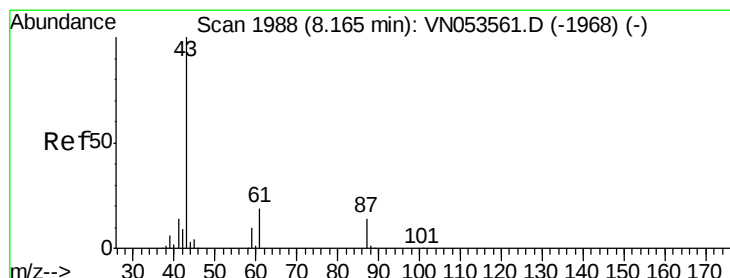
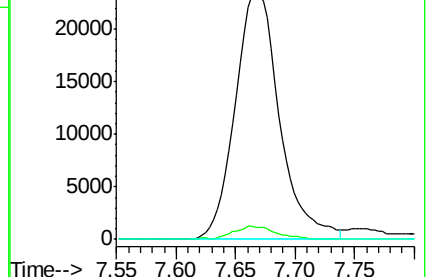
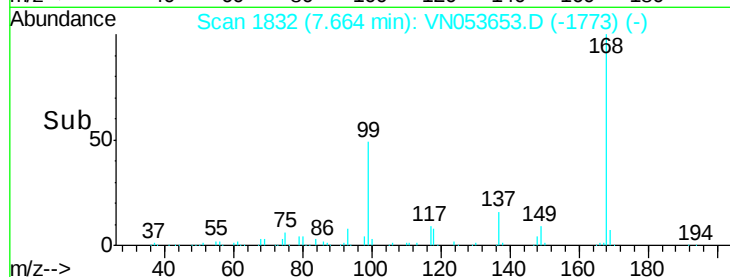
121 0.0 24.6 37.0#



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: 23.249 ug/l

RT: 8.29 min Scan# 2028

Delta R.T. 0.13 min

Lab File: VN053653.D

Acq: 7 Feb 2019 14:06

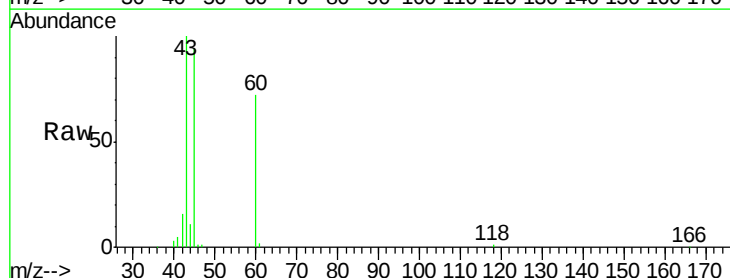
Tgt Ion: 43 Resp: 282061

Ion Ratio Lower Upper

43 100

61 0.0 23.9 35.9#

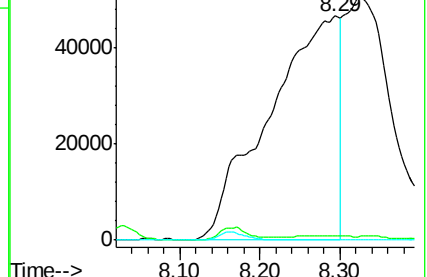
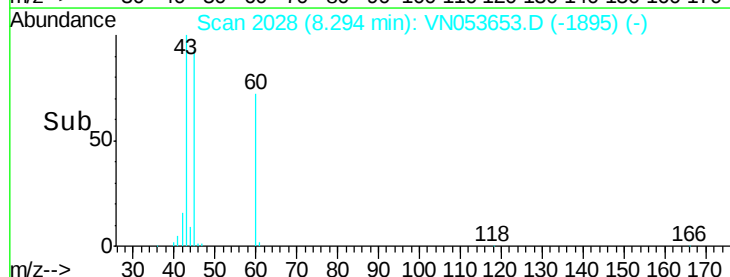
87 0.0 11.0 16.6#

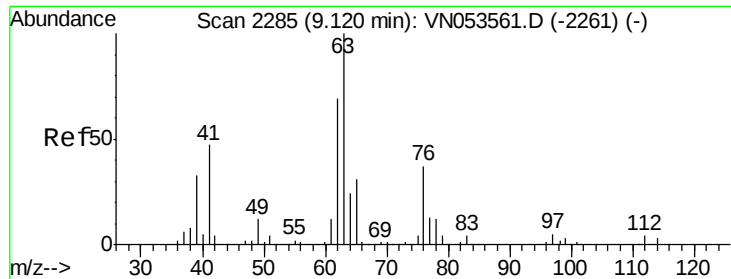


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.230 ug/l

RT: 9.26 min Scan# 2330

Delta R.T. 0.14 min

Lab File: VN053653.D

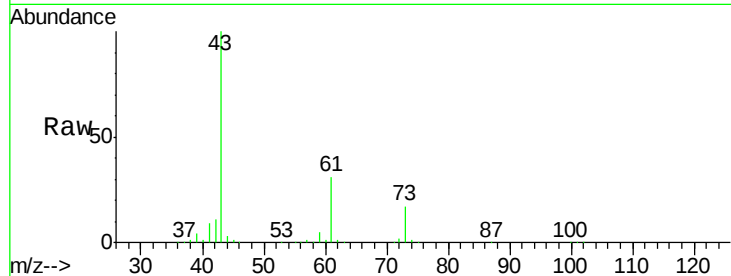
Acq: 7 Feb 2019 14:06

Tot Ion: 63 Resp: 2041

Ion Ratio Lower Upper

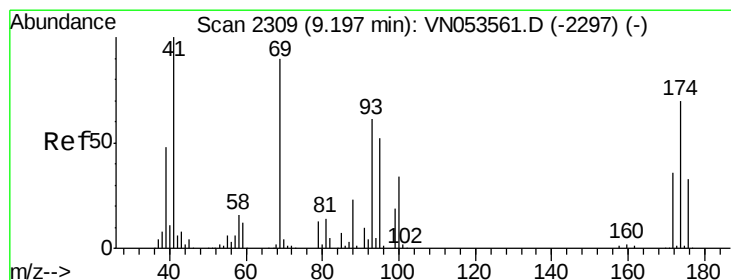
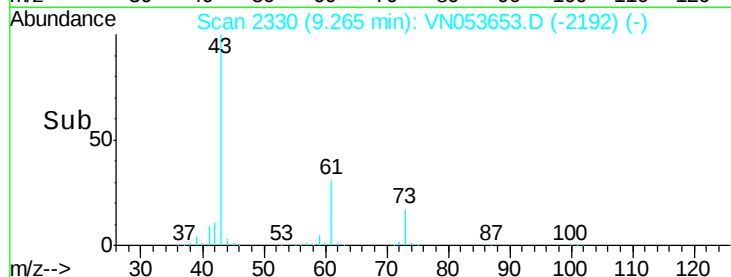
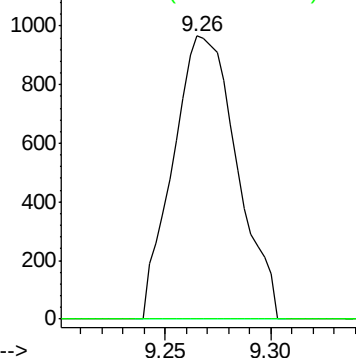
63 100

65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC



#48

Methyl methacrylate

Concen: 1.950 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN053653.D

Acq: 7 Feb 2019 14:06

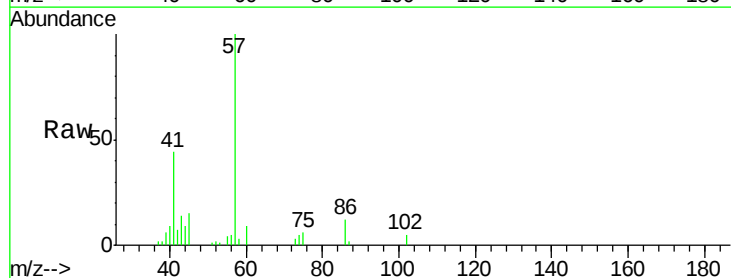
Tgt Ion: 41 Resp: 11294

Ion Ratio Lower Upper

41 100

69 0.0 73.8 110.6#

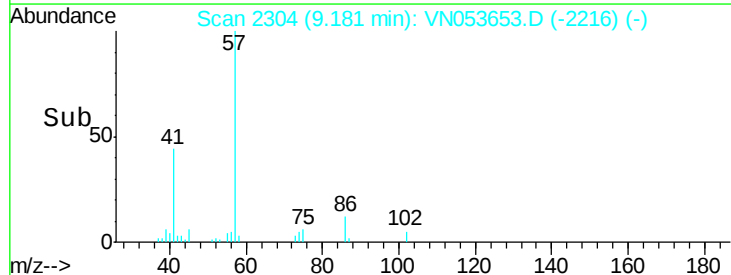
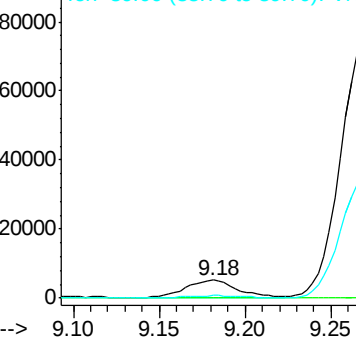
39 0.0 40.0 60.0#

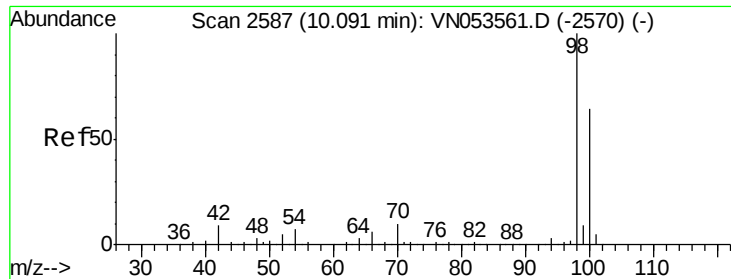


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053653.D

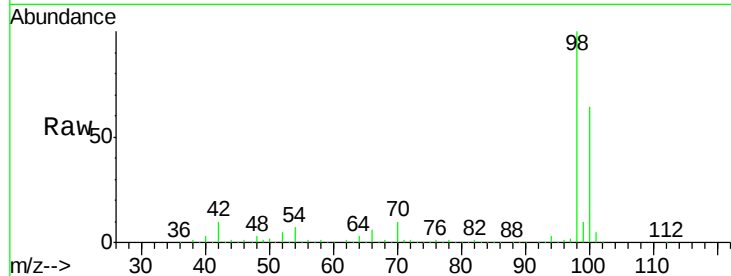
Acq: 7 Feb 2019 14:06

Tot Ion: 98 Resp: 1499811

Ion Ratio Lower Upper

98 100

100 64.2 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN053653.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN053653.D (-2570) (-)

10.09

800000

600000

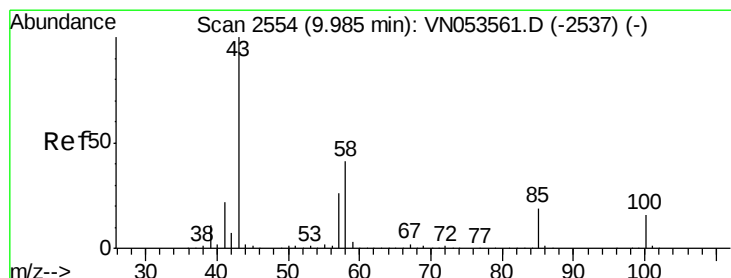
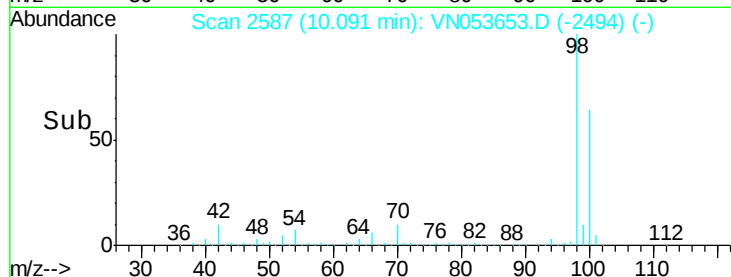
400000

200000

0

Time-->

10.00 10.10 10.20 10.30



#51

4-Methyl-2-Pentanone

Concen: 1.621 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053653.D

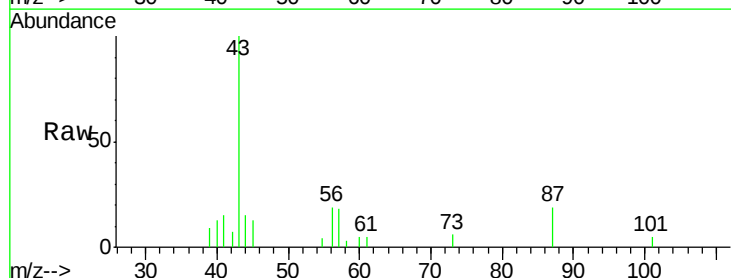
Acq: 7 Feb 2019 14:06

Tgt Ion: 43 Resp: 9663

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN053653.D (-2461) (-)

Ion 58.00 (57.70 to 58.70): VN053653.D (-2461) (-)

10.02

8000

6000

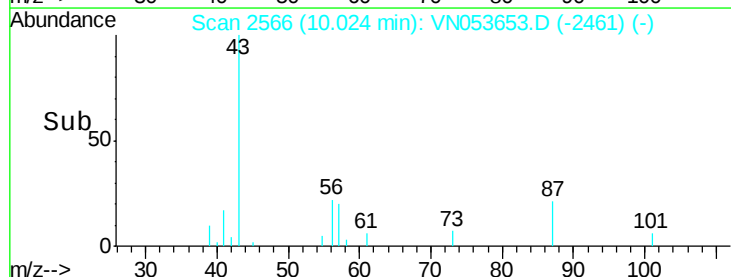
4000

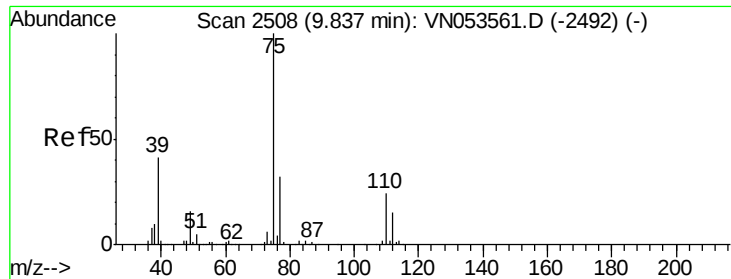
2000

0

Time-->

10.00 10.05





#54

cis-1,3-Dichloropropene

Concen: 5.994 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053653.D

Acq: 7 Feb 2019 14:06

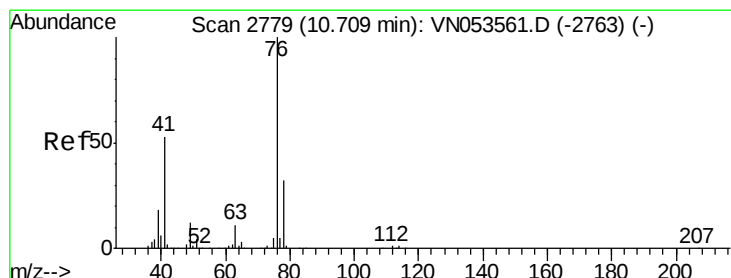
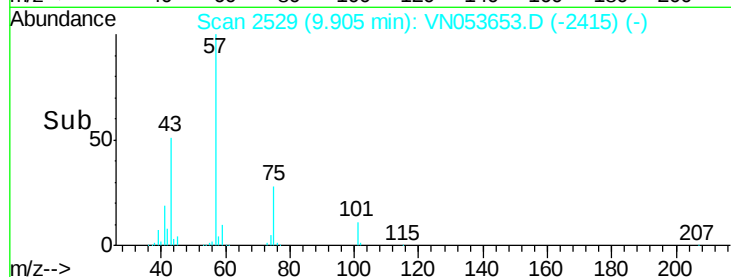
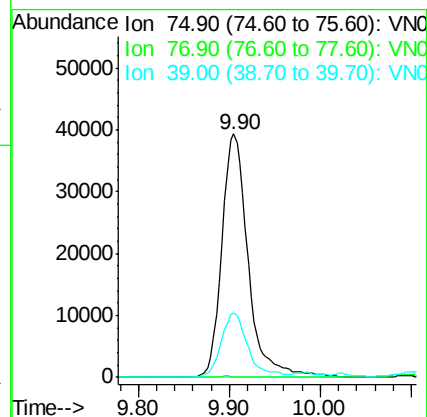
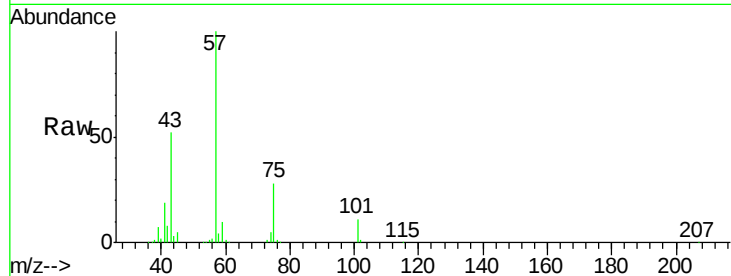
Tot Ion: 75 Resp: 79087

Ion Ratio Lower Upper

75 100

77 0.4 25.8 38.6#

39 26.7 33.4 50.0#



#57

1,3-Dichloropropane

Concen: 1.178 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN053653.D

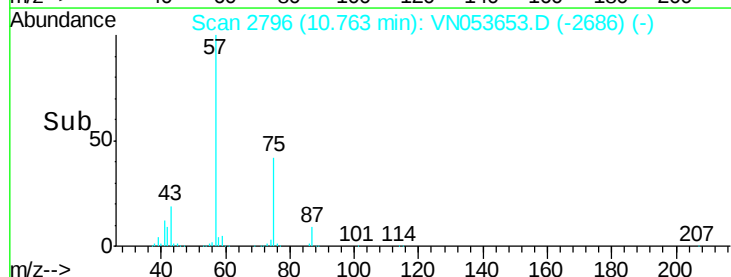
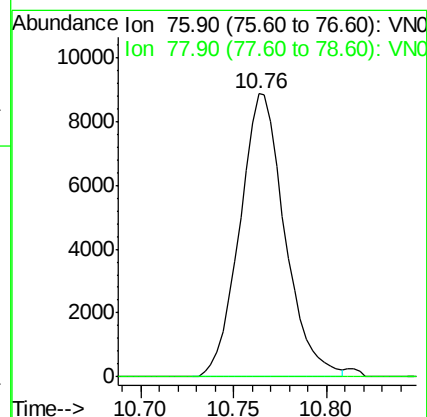
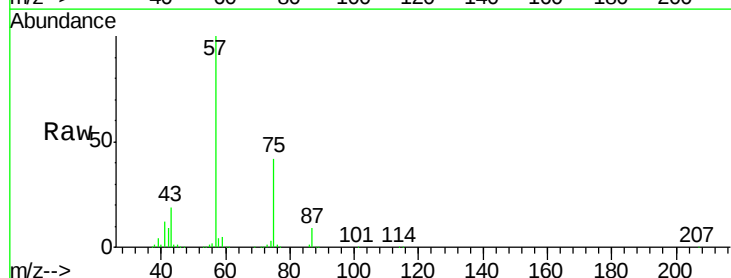
Acq: 7 Feb 2019 14:06

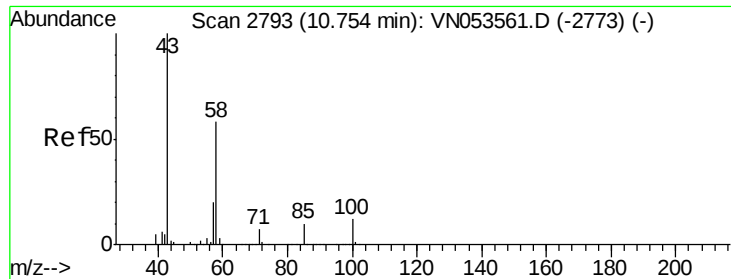
Tgt Ion: 76 Resp: 14938

Ion Ratio Lower Upper

76 100

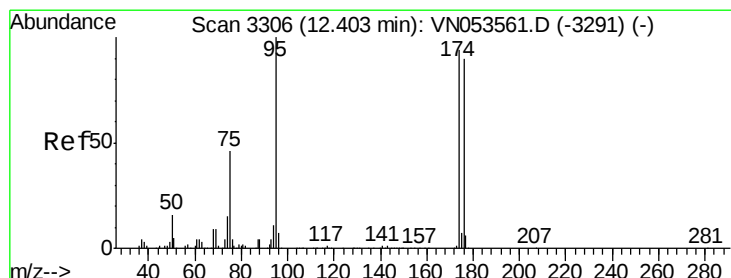
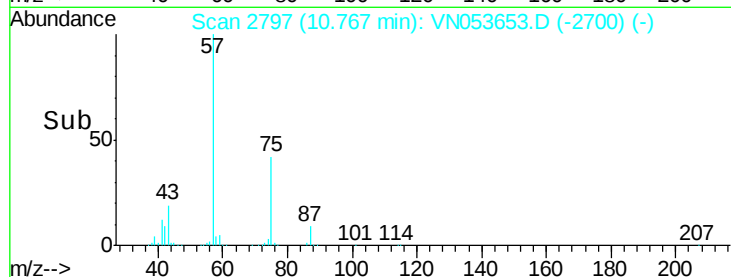
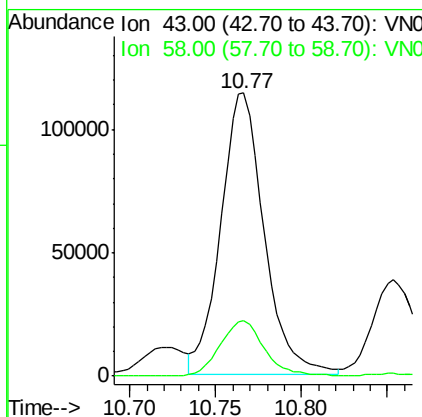
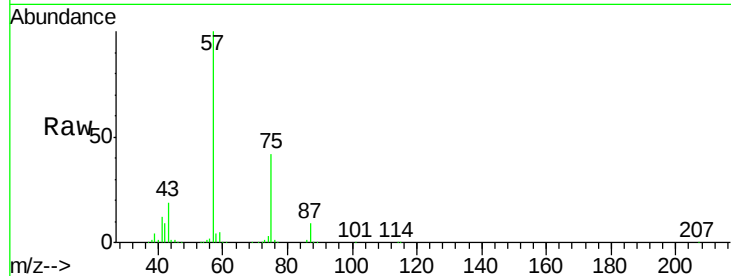
78 0.0 25.6 38.4#





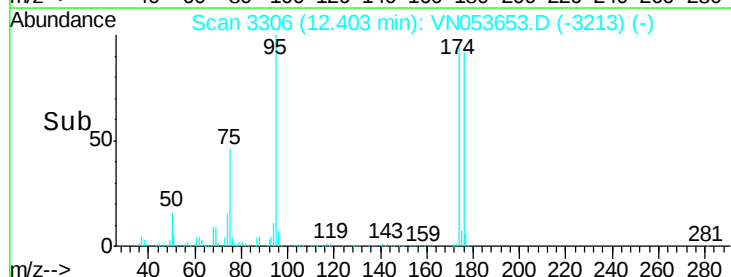
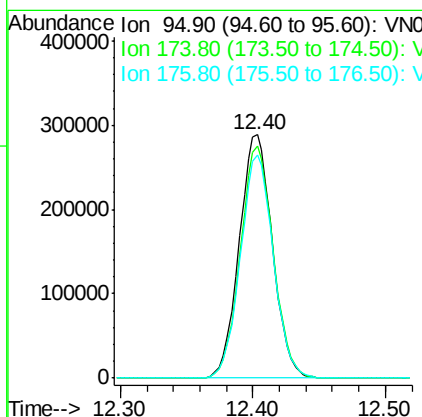
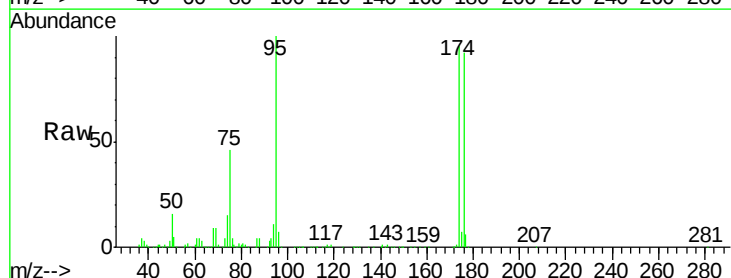
#59
2-Hexanone
Concen: 49.583 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN053653.D
Acq: 7 Feb 2019 14:06

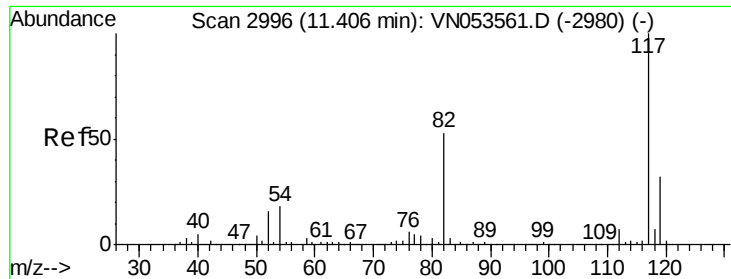
Tot Ion: 43 Resp: 200677
Ion Ratio Lower Upper
43 100
58 20.2 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053653.D
Acq: 7 Feb 2019 14:06

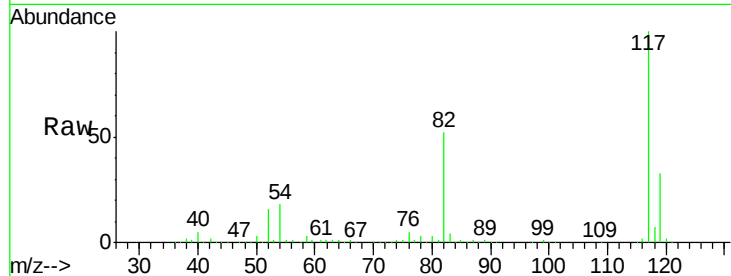
Tgt Ion: 95 Resp: 500523
Ion Ratio Lower Upper
95 100
174 94.6 0.0 183.2
176 90.6 0.0 177.4



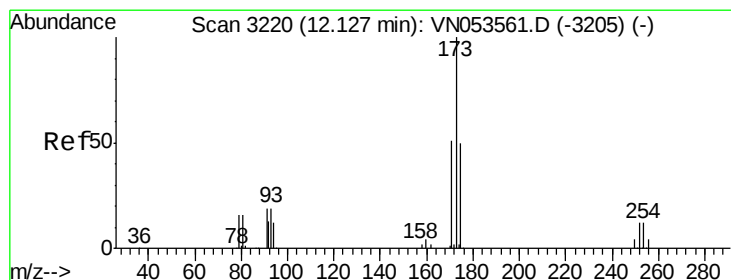
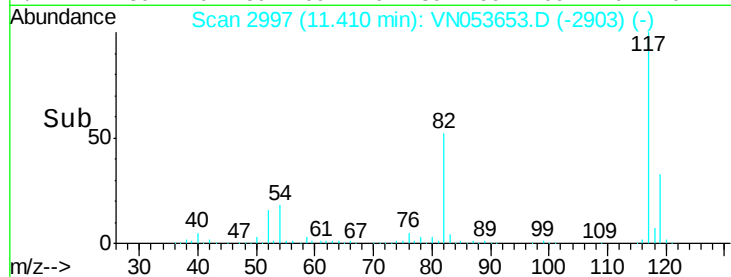
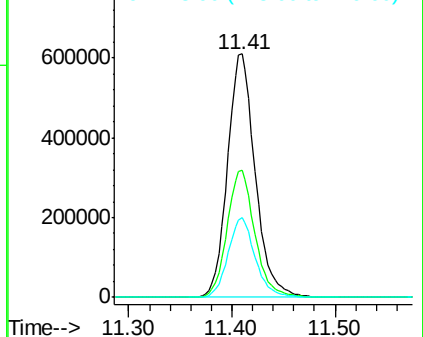


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053653.D
Acq: 7 Feb 2019 14:06

Tot Ion:117 Resp: 1140654
Ion Ratio Lower Upper
117 100
82 52.0 42.9 64.3
119 32.5 26.0 39.0

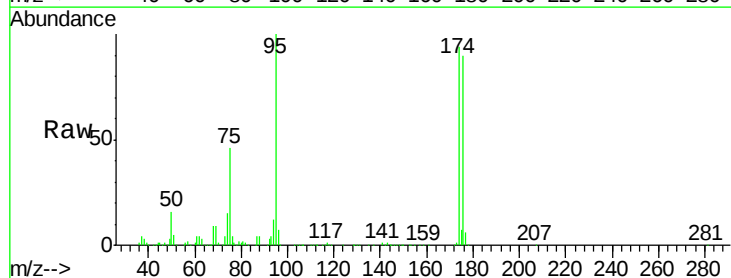


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

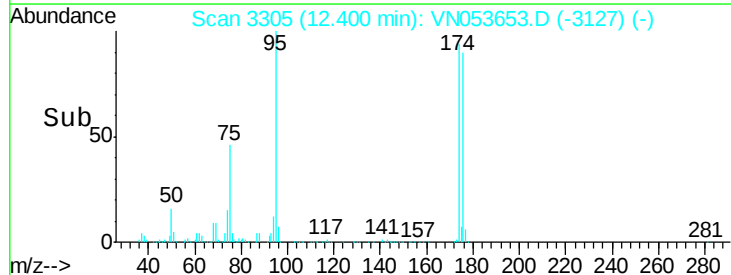
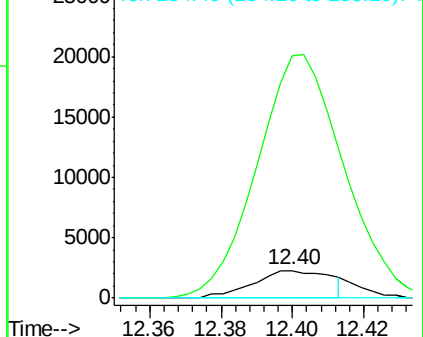


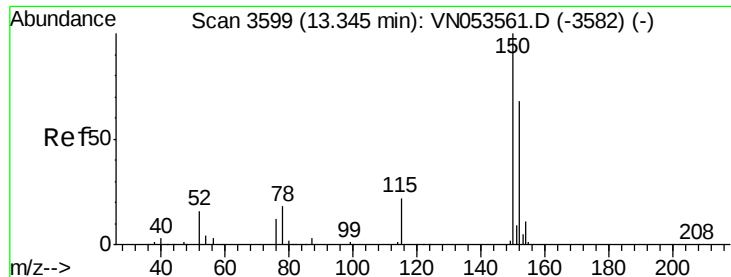
#71
Bromoform
Concen: 0.591 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN053653.D
Acq: 7 Feb 2019 14:06

Tgt Ion:173 Resp: 3426
Ion Ratio Lower Upper
173 100
175 840.5 24.6 74.0#
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: VN053653.D

Acq: 7 Feb 2019 14:06

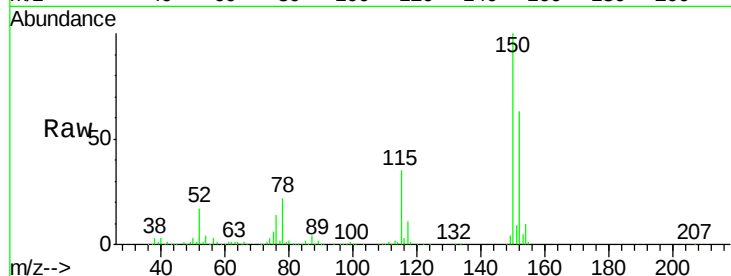
Tot Ion:152 Resp: 479524

Ion Ratio Lower Upper

152 100

115 54.9 27.8 83.4

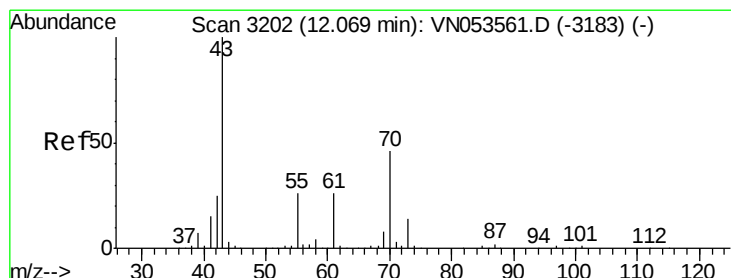
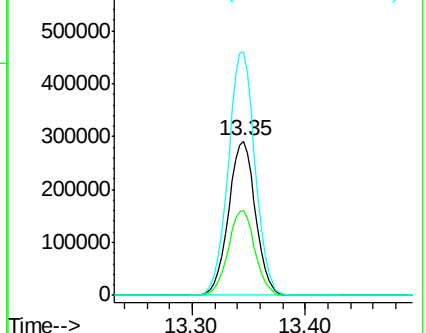
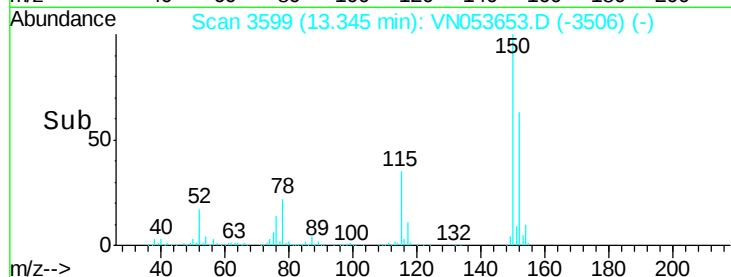
150 158.0 0.0 349.0



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: 2.810 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053653.D

Acq: 7 Feb 2019 14:06

Tgt Ion: 43 Resp: 22777

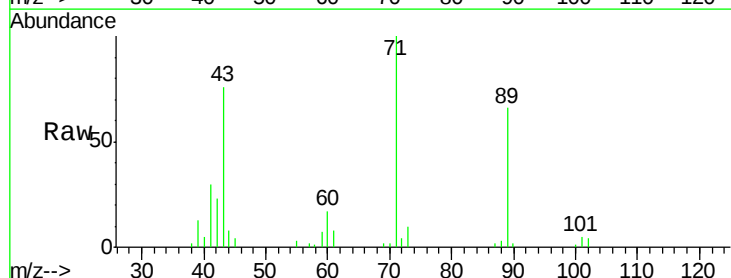
Ion Ratio Lower Upper

43 100

70 2.2 35.4 53.2#

55 4.8 20.9 31.3#

61 11.2 20.5 30.7#

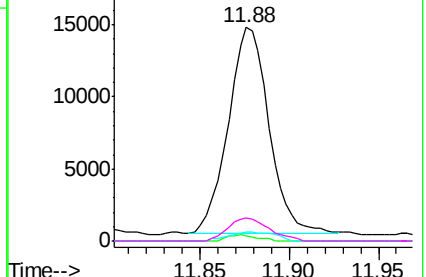
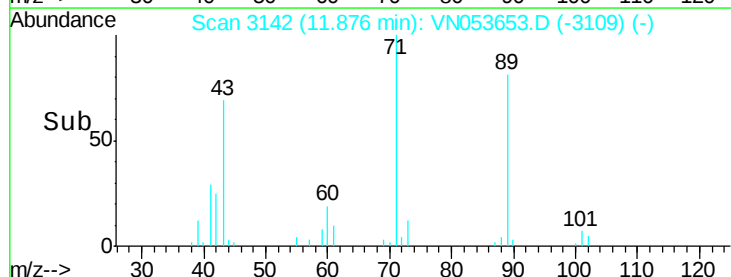


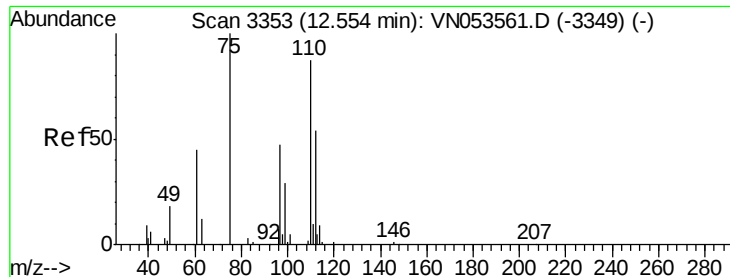
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

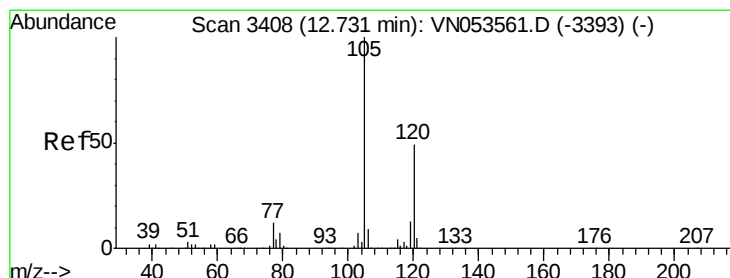
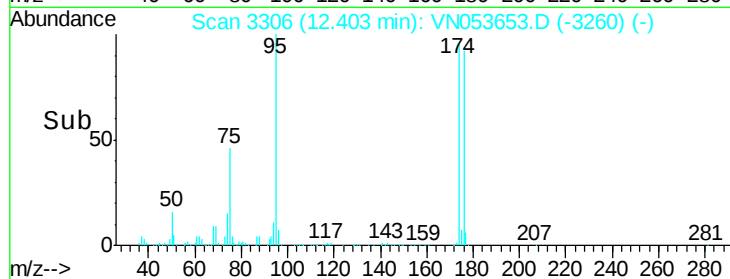
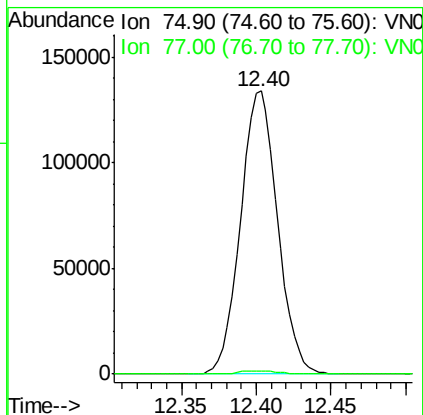
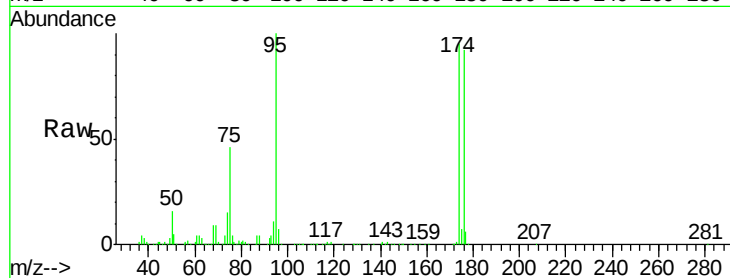




#76

1,2,3-Trichloropropane
Concen: 37.419 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN053653.D
Acq: 7 Feb 2019 14:06

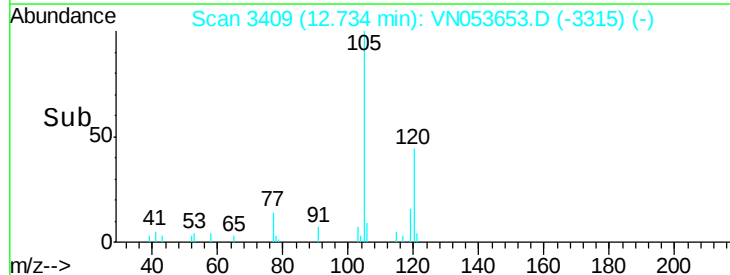
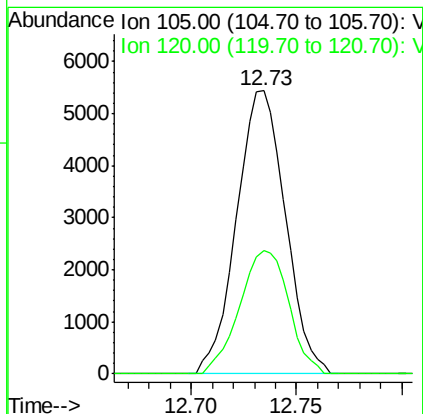
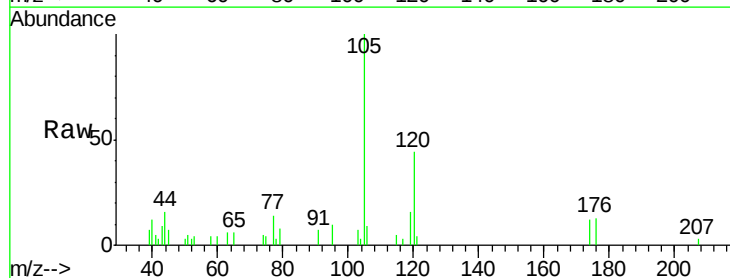
Tot Ion: 75 Resp: 230469
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#

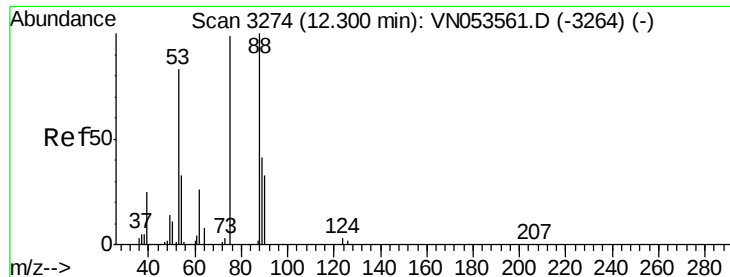


#80

1,3,5-Trimethylbenzene
Concen: 0.312 ug/l
RT: 12.73 min Scan# 3409
Delta R.T. 0.00 min
Lab File: VN053653.D
Acq: 7 Feb 2019 14:06

Tgt Ion: 105 Resp: 8726
Ion Ratio Lower Upper
105 100
120 44.1 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 105.218 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053653.D

Acq: 7 Feb 2019 14:06

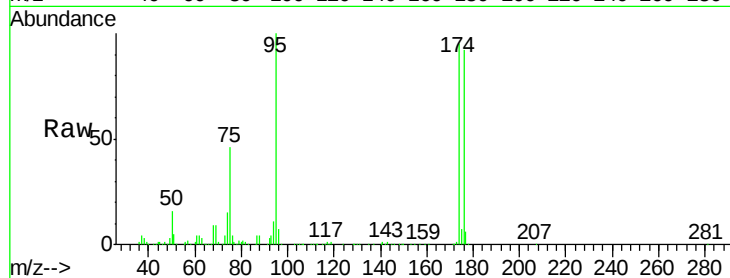
Tot Ion: 75 Resp: 230469

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

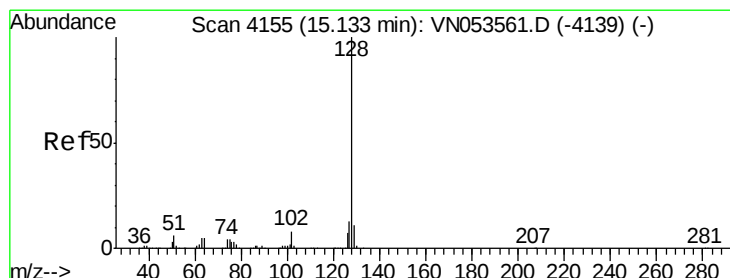
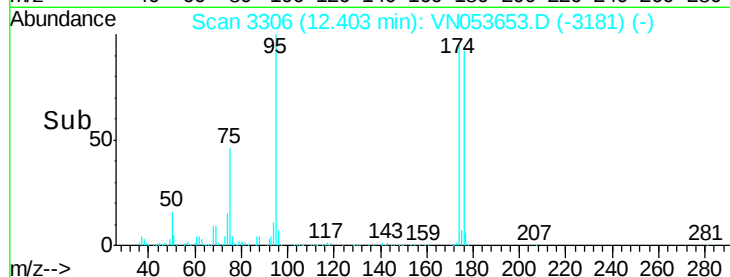
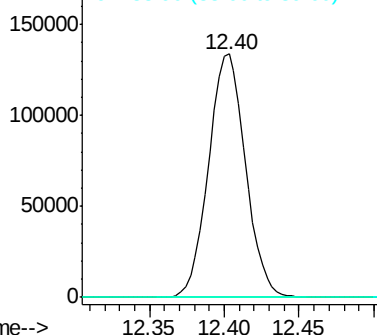
89 0.0 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN053653.D (-3306) (-)

Ion 53.00 (52.70 to 53.70): VN053653.D (-3306) (-)

Ion 88.90 (88.60 to 89.60): VN053653.D (-3306) (-)



#95

Naphthalene

Concen: 1.746 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN053653.D

Acq: 7 Feb 2019 14:06

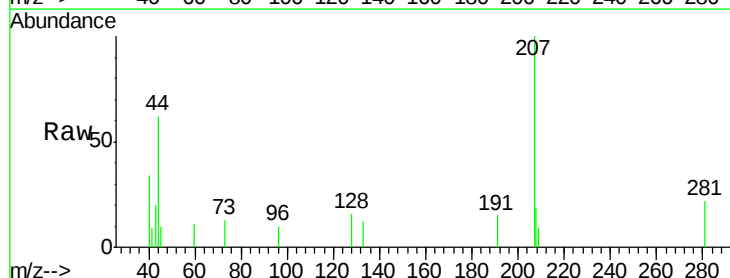
Tgt Ion: 128 Resp: 202

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN053653.D (-4155) (-)

Ion 127.00 (126.70 to 127.70): VN053653.D (-4155) (-)

Ion 129.00 (128.70 to 129.70): VN053653.D (-4155) (-)

