

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011719\
 Data File : VN053452.D
 Acq On : 17 Jan 2019 23:07
 Operator : JC/SP
 Sample : PB116439ZHE#14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 28

Quant Time: Jan 18 00:14:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 03:10:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	912514	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1434532	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1387120	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	622228	50.00	ug/l	0.00

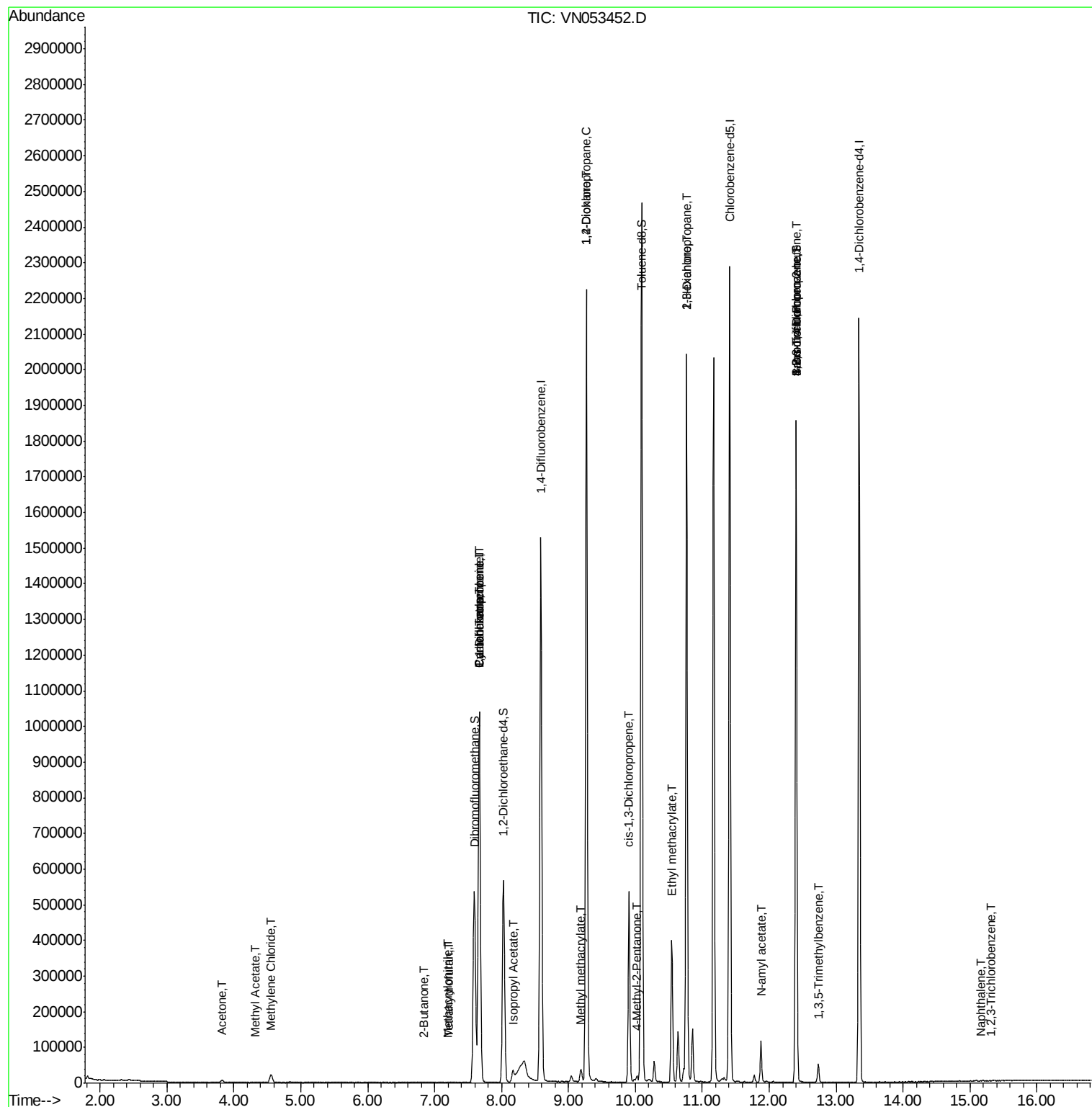
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	472097	52.34	ug/l	0.00
Spiked Amount			Recovery	=	104.68%	
35) Dibromofluoromethane	7.59	113	415756	50.78	ug/l	0.00
Spiked Amount			Recovery	=	101.56%	
50) Toluene-d8	10.09	98	1795087	51.85	ug/l	0.00
Spiked Amount			Recovery	=	103.70%	
62) 4-Bromofluorobenzene	12.40	95	640495	52.75	ug/l	0.00
Spiked Amount			Recovery	=	105.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	12345	5.834	ug/l	95
18) Methyl Acetate	4.33	43	3427	0.481	ug/l #	63
20) Methylene Chloride	4.55	84	16932	1.753	ug/l	96
25) 2-Butanone	6.83	43	735	0.225	ug/l #	47
29) Tetrahydrofuran	7.21	42	592	0.279	ug/l #	58
31) Cyclohexane	7.67	56	14257	0.679	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	59106	4.524	ug/l #	49
38) Carbon Tetrachloride	7.67	117	77854	6.294	ug/l #	16
41) Methacrylonitrile	7.19	41	174	0.706	ug/l #	20
43) Isopropyl Acetate	8.17	43	49540	3.665	ug/l #	78
45) 1,2-Dichloropropane	9.27	63	2549	0.242	ug/l #	43
48) Methyl methacrylate	9.18	41	12439	1.783	ug/l #	12
49) 1,4-Dioxane	9.26	88	99	1.453	ug/l #	23
51) 4-Methyl-2-Pentanone	10.02	43	15099	2.047	ug/l #	34
54) cis-1,3-Dichloropropene	9.91	75	100347	6.647	ug/l #	62
56) Ethyl methacrylate	10.54	69	1660	2.190	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	21334	1.451	ug/l #	43
59) 2-Hexanone	10.76	43	285344	55.094	ug/l #	50
71) Bromoform	12.40	173	4263	0.606	ug/l #	1
74) N-amyl acetate	11.88	43	33786	2.781	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	299678	36.547	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	26315	0.710	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	299678	90.339	ug/l #	15
95) Naphthalene	15.15	128	70	3.943	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	29	3.908	ug/l #	12

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

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Quant Title : SW846 8260
QLast Update : Wed Jan 16 03:10:53 2019
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: VN053452.D

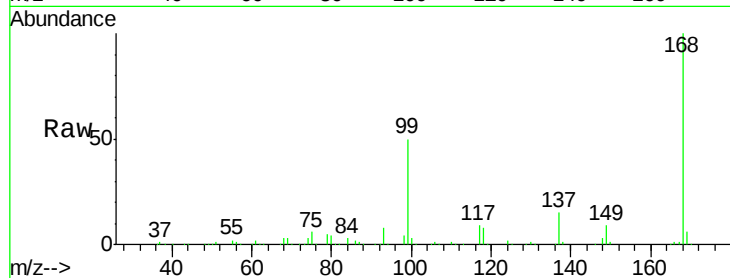
Acq: 17 Jan 2019 23:07

Tot Ion:168 Resp: 912514

Ion Ratio Lower Upper

168 100

99 49.9 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): VN053399.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN053399.D (-1812) (-)

7.67

400000

300000

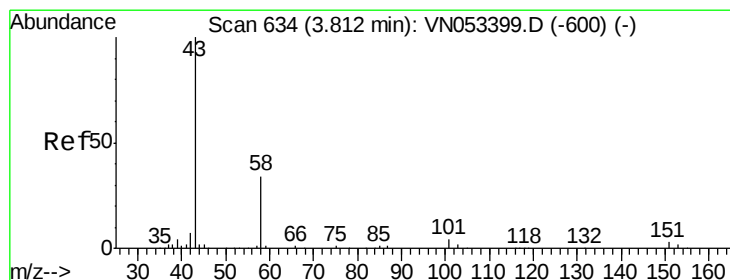
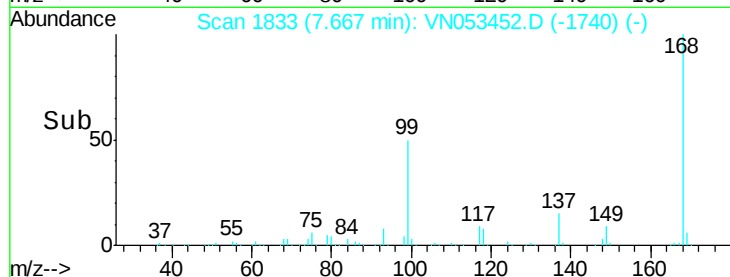
200000

100000

0

7.60 7.70 7.80

Time-->



#16

Acetone

Concen: 5.834 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN053452.D

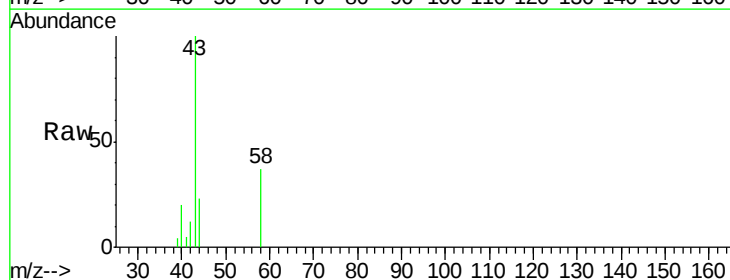
Acq: 17 Jan 2019 23:07

Tgt Ion: 43 Resp: 12345

Ion Ratio Lower Upper

43 100

58 37.0 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN053399.D (-600) (-)

Ion 58.00 (57.70 to 58.70): VN053399.D (-600) (-)

3.82

5000

4000

3000

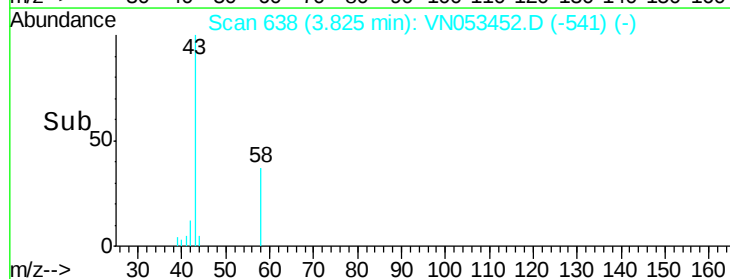
2000

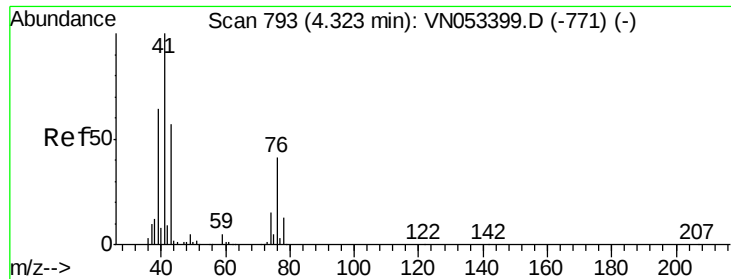
1000

0

3.75 3.80 3.85 3.90

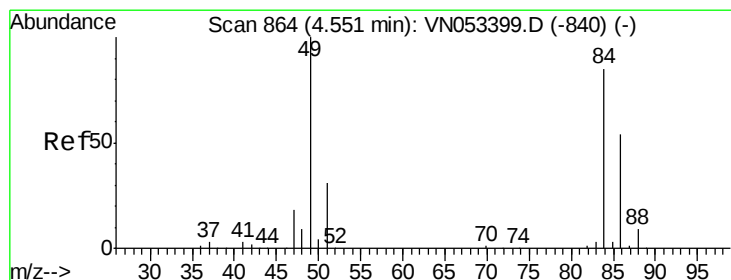
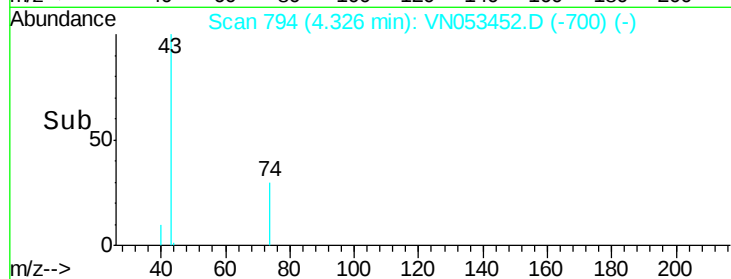
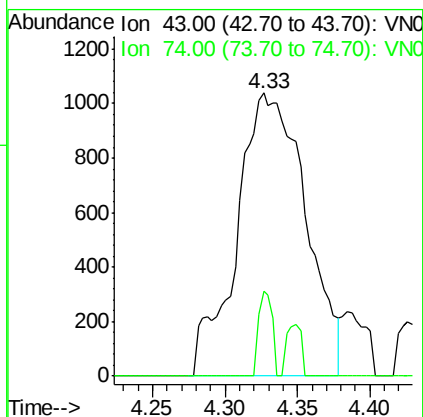
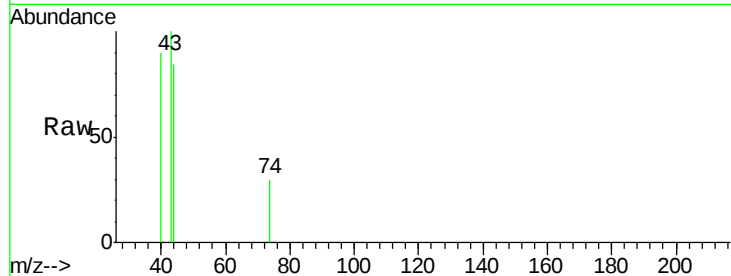
Time-->





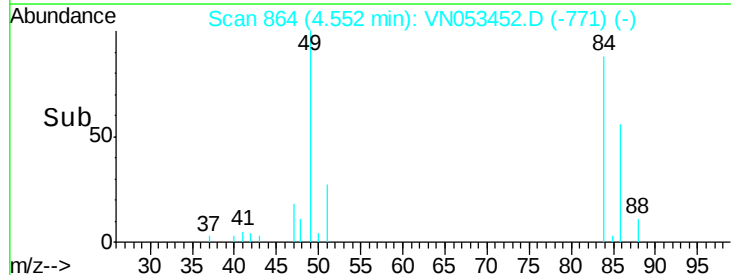
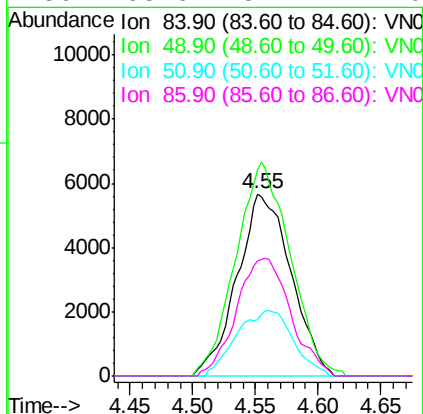
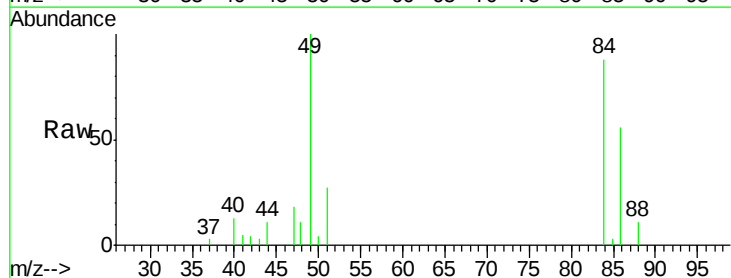
#18
Methyl Acetate
Concen: 0.481 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN053452.D
Acq: 17 Jan 2019 23:07

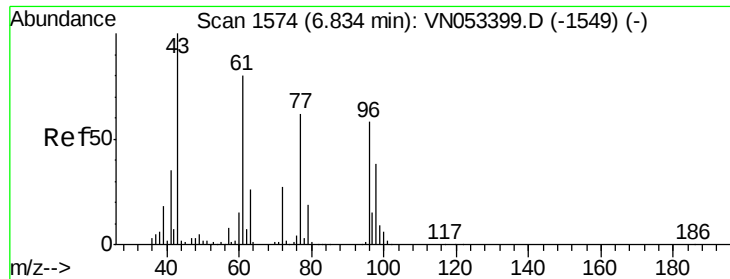
Tot Ion: 43 Resp: 3427
Ion Ratio Lower Upper
43 100
74 5.9 19.4 29.2#



#20
Methylene Chloride
Concen: 1.753 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN053452.D
Acq: 17 Jan 2019 23:07

Tgt Ion: 84 Resp: 16932
Ion Ratio Lower Upper
84 100
49 113.4 94.3 141.5
51 31.1 29.4 44.2
86 63.6 51.4 77.0





#25

2-Butanone

Concen: 0.225 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN053452.D

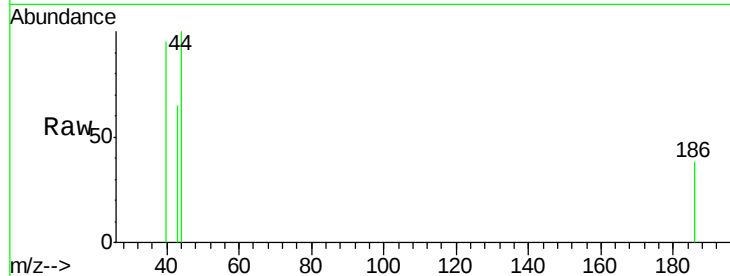
Acq: 17 Jan 2019 23:07

Tot Ion: 43 Resp: 735

Ion Ratio Lower Upper

43 100

72 0.0 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

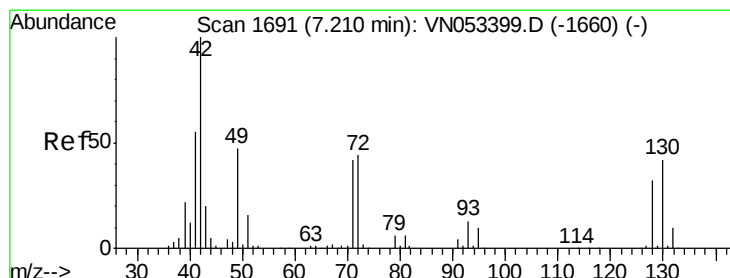
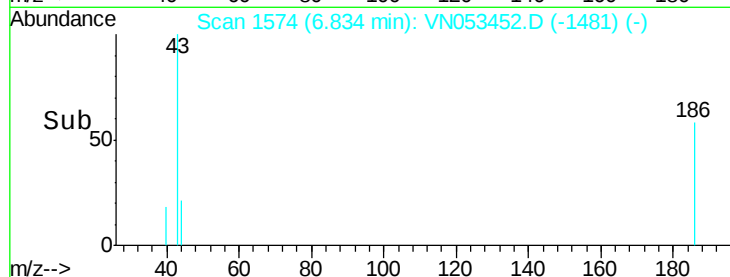
6.83

400

200

0

Time--> 6.80 6.82 6.84



#29

Tetrahydrofuran

Concen: 0.279 ug/l

RT: 7.21 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VN053452.D

Acq: 17 Jan 2019 23:07

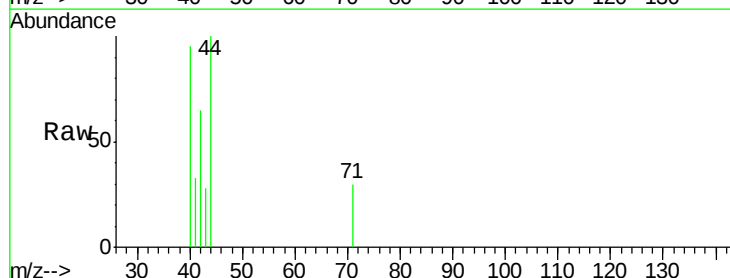
Tgt Ion: 42 Resp: 592

Ion Ratio Lower Upper

42 100

72 0.0 35.2 52.8#

71 32.3 33.0 49.4#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

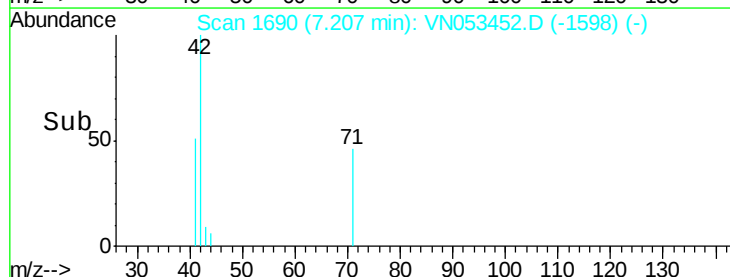
600

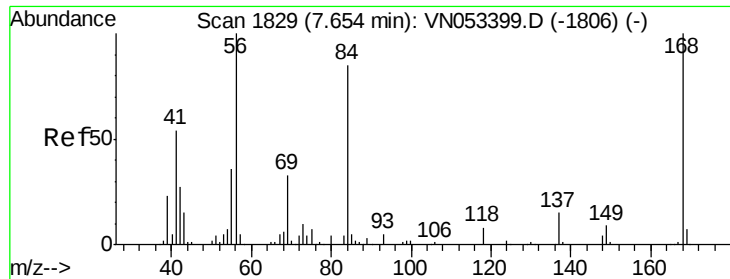
400

200

0

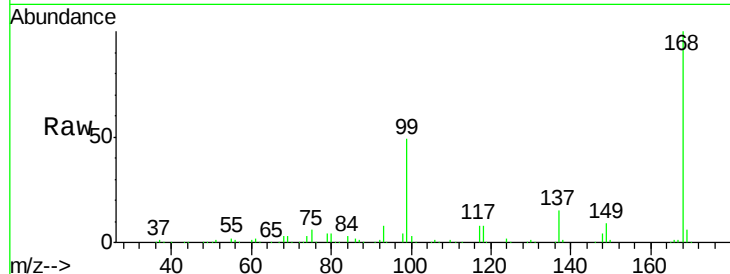
Time--> 7.18 7.20 7.22



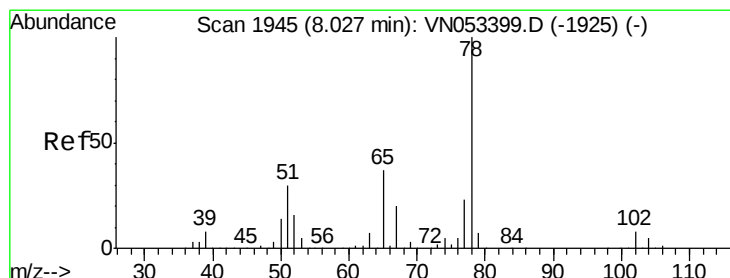
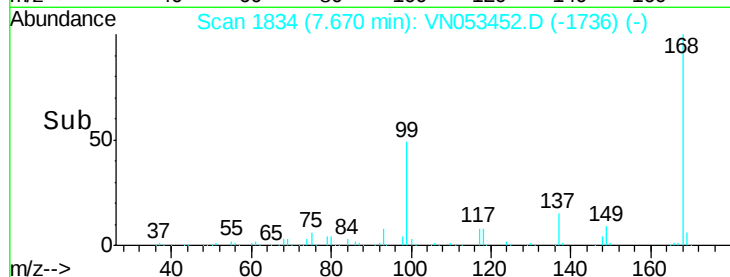
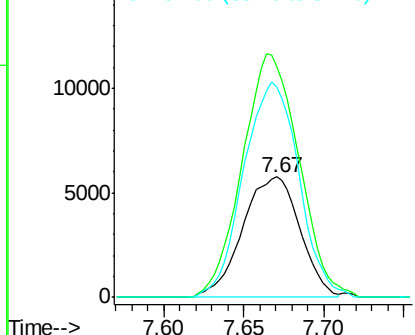


#31
Cyclohexane
Concen: 0.679 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. 0.02 min
Lab File: VN053452.D
Acq: 17 Jan 2019 23:07

Tot Ion: 56 Resp: 14257
Ion Ratio Lower Upper
56 100
69 191.0 26.4 39.6#
84 174.6 67.9 101.9#

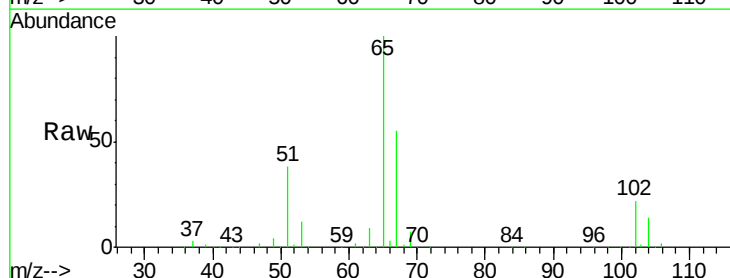


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

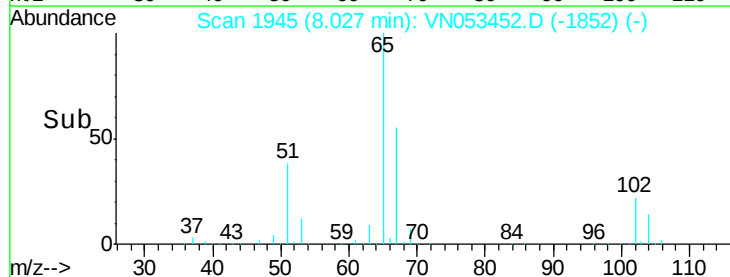
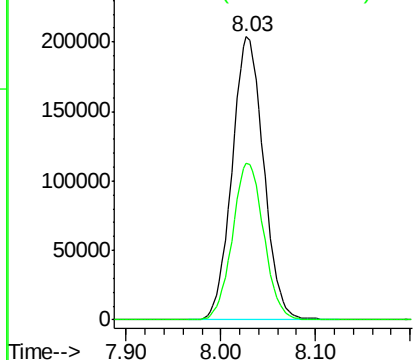


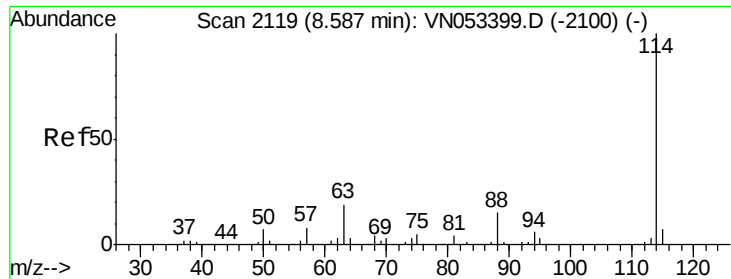
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN053452.D
Acq: 17 Jan 2019 23:07

Tgt Ion: 65 Resp: 472097
Ion Ratio Lower Upper
65 100
67 55.2 0.0 111.2



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

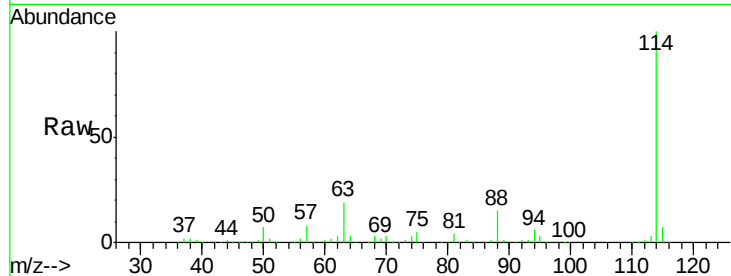




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053452.D
 Acq: 17 Jan 2019 23:07

Tot Ion:114 Resp: 1434532

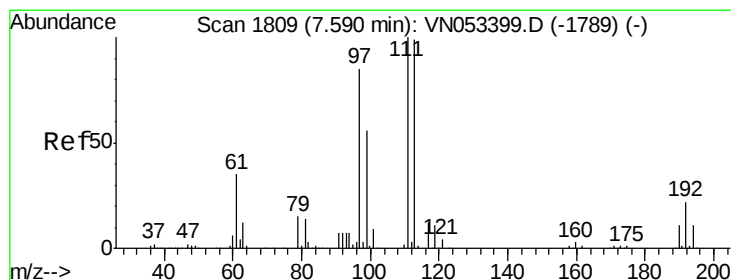
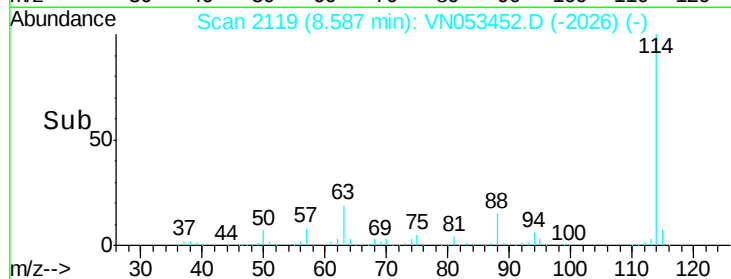
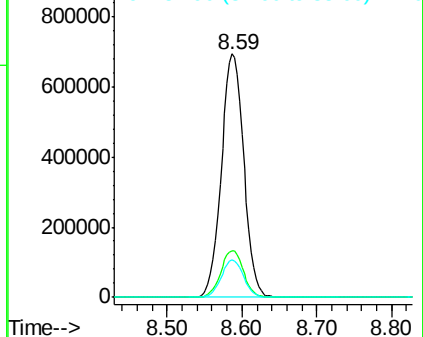
Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	38.6
88	15.3	0.0	30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

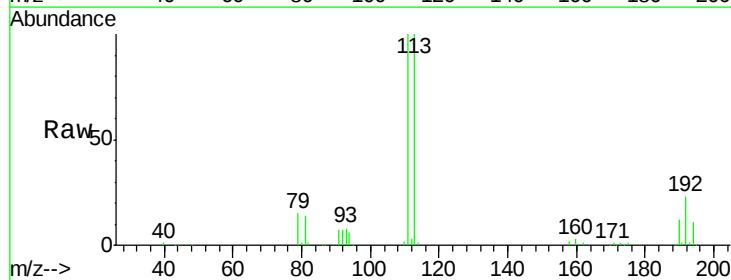
Ion 87.90 (87.60 to 88.60): VN



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053452.D
 Acq: 17 Jan 2019 23:07

Tgt Ion:113 Resp: 415756

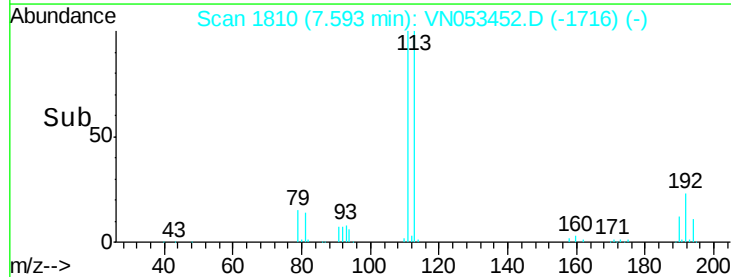
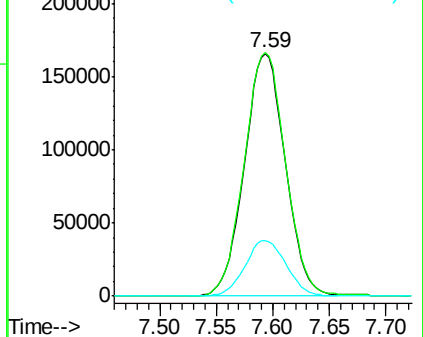
Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.1	121.7
192	23.2	18.2	27.2

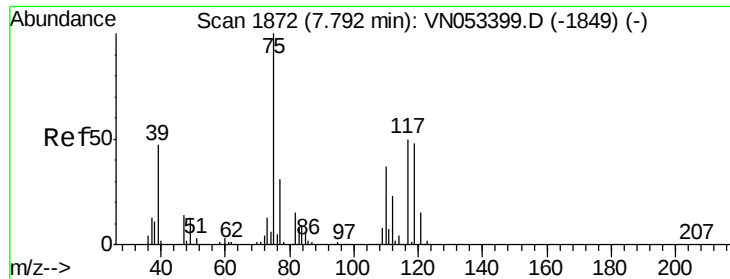


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.524 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.12 min

Lab File: VN053452.D

Acq: 17 Jan 2019 23:07

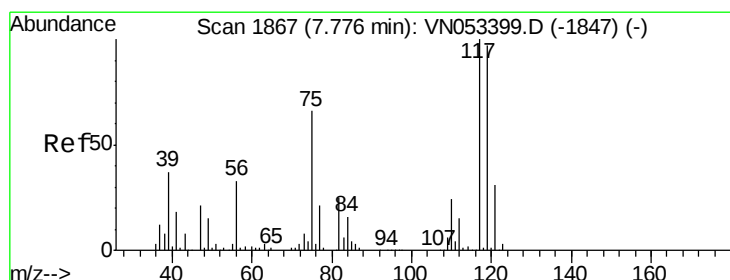
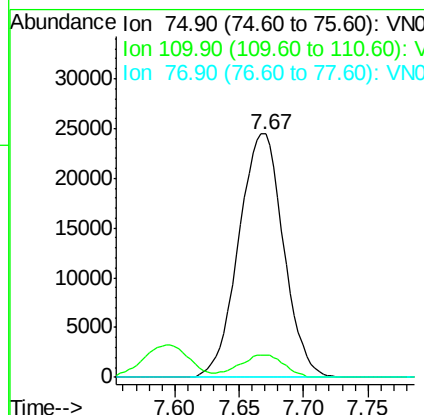
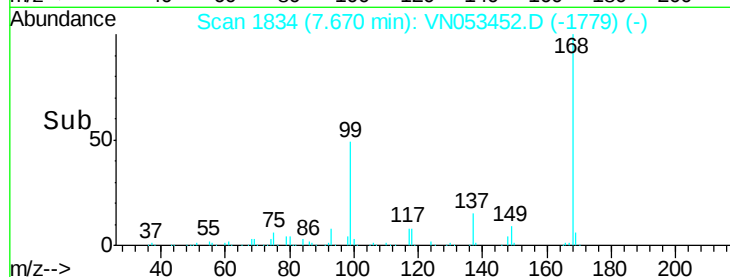
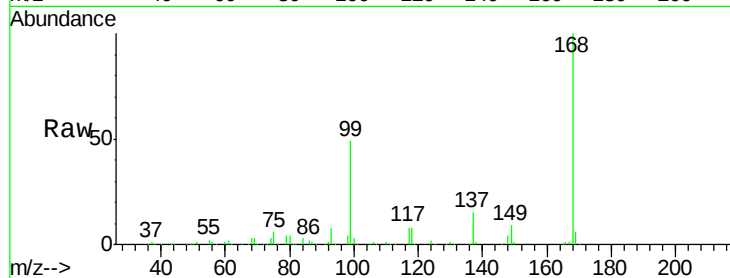
Tot Ion: 75 Resp: 59106

Ion Ratio Lower Upper

75 100

110 9.1 18.1 54.3#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 6.294 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053452.D

Acq: 17 Jan 2019 23:07

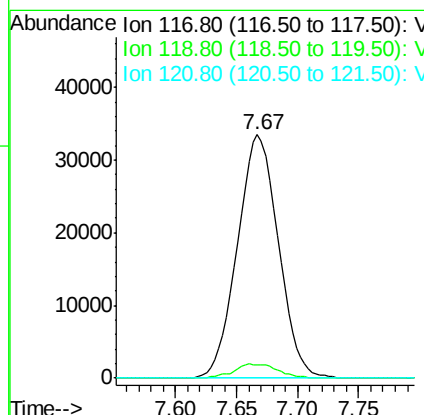
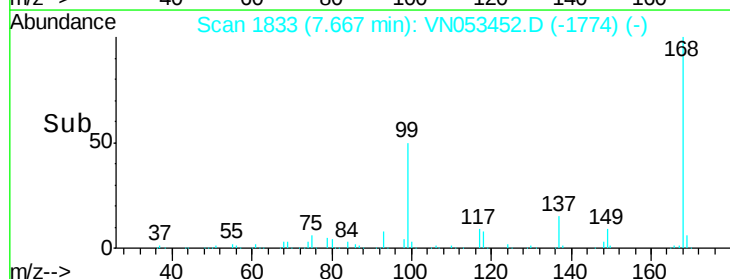
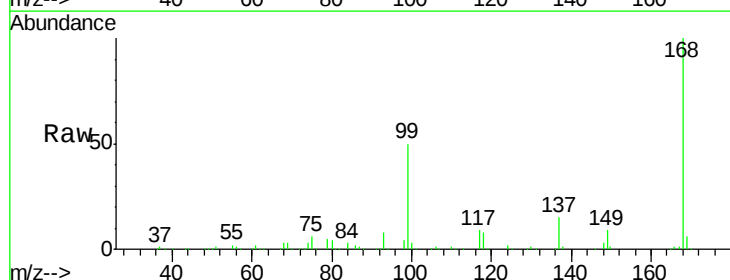
Tgt Ion: 117 Resp: 77854

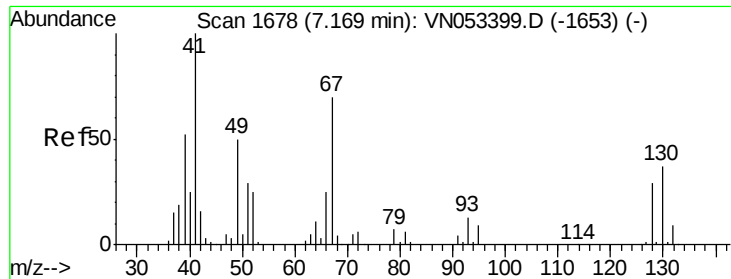
Ion Ratio Lower Upper

117 100

119 5.6 77.2 115.8#

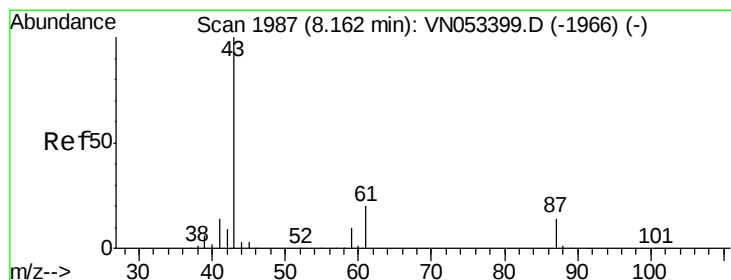
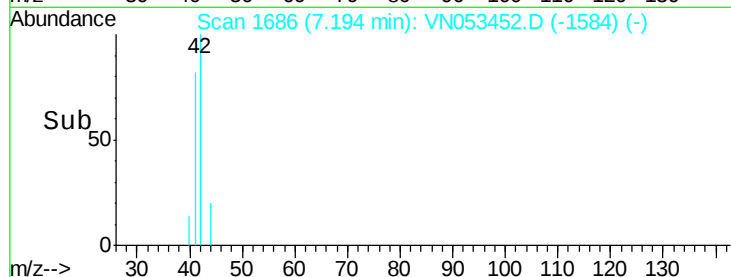
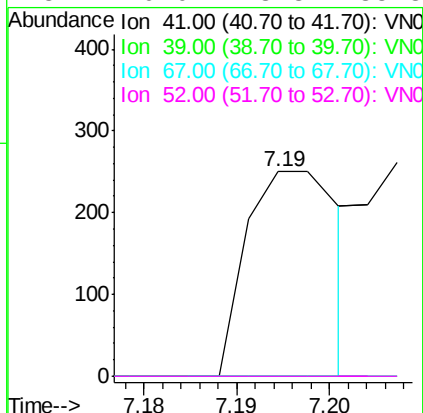
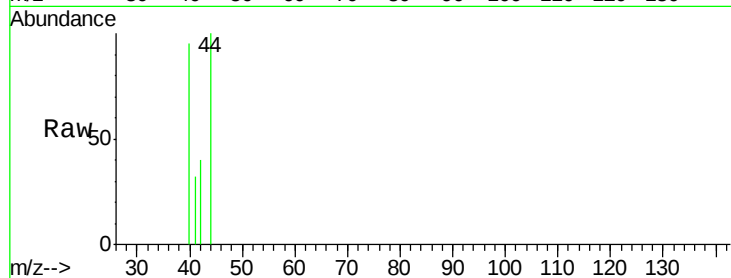
121 0.0 24.6 37.0#





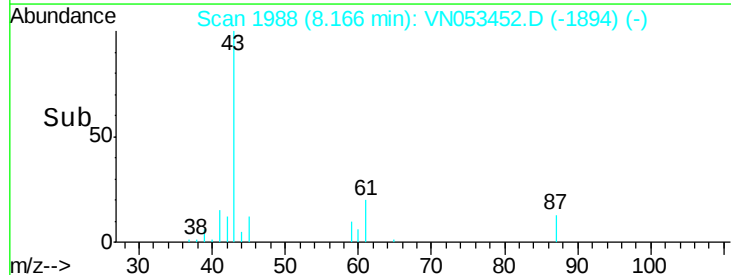
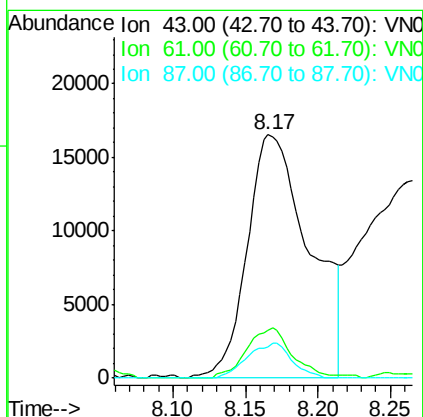
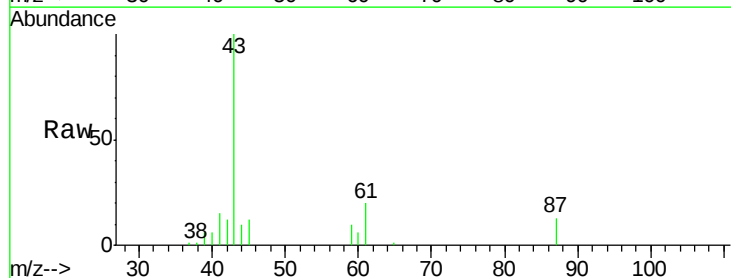
#41
Methacrylonitrile
Concen: 0.706 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.03 min
Lab File: VN053452.D
Acq: 17 Jan 2019 23:07

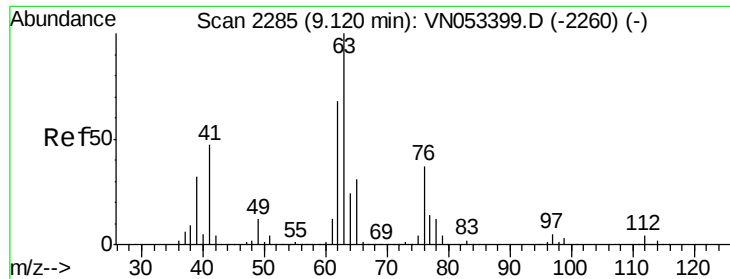
Tot Ion:	41	Resp:	174
Ion	Ratio	Lower	Upper
41	100		
39	0.0	46.8	70.2#
67	0.0	63.0	94.6#
52	0.0	23.8	35.8#



#43
Isopropyl Acetate
Concen: 3.665 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN053452.D
Acq: 17 Jan 2019 23:07

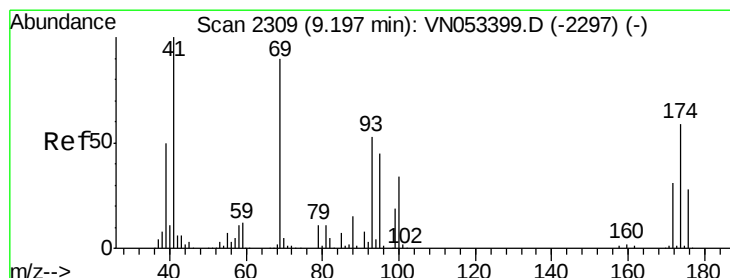
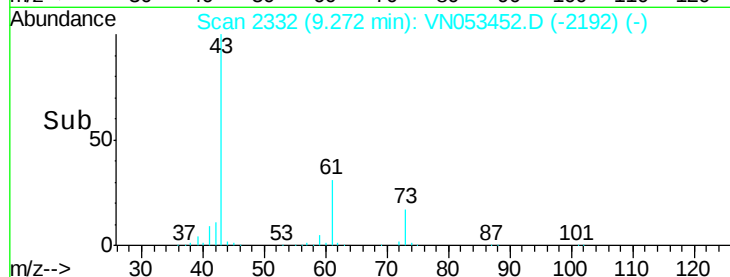
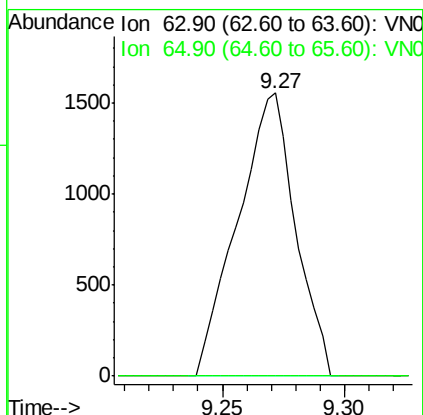
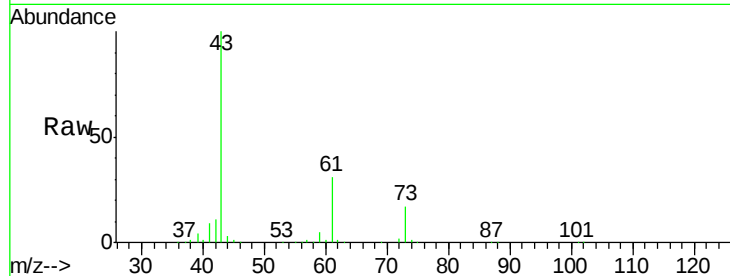
Tgt Ion:	43	Resp:	49540
Ion	Ratio	Lower	Upper
43	100		
61	15.0	23.9	35.9#
87	10.2	11.0	16.6#





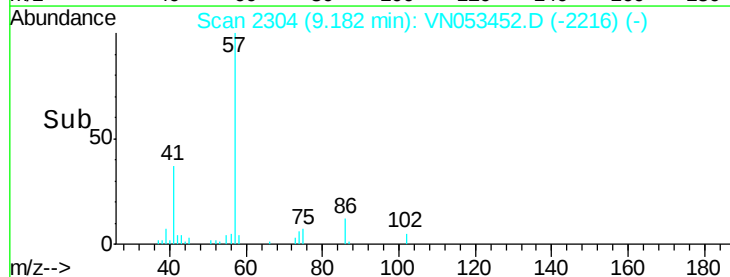
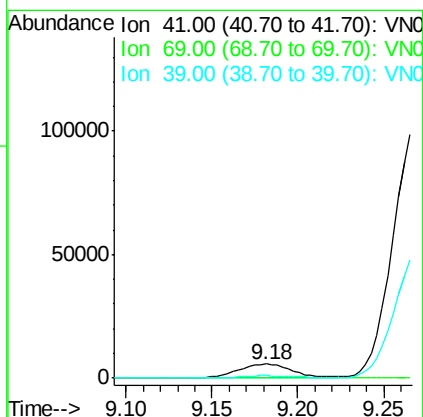
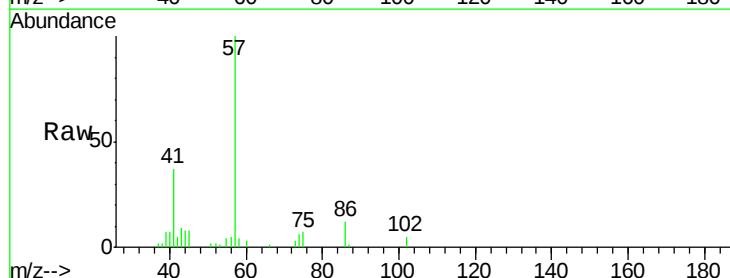
#45
 1,2-Dichloropropane
 Concen: 0.242 ug/l
 RT: 9.27 min Scan# 2332
 Delta R.T. 0.15 min
 Lab File: VN053452.D
 Acq: 17 Jan 2019 23:07

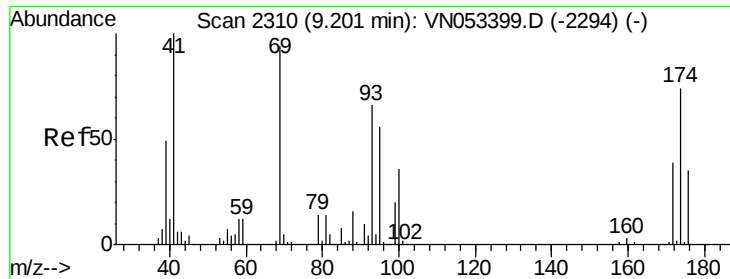
Tot Ion: 63 Resp: 2549
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.783 ug/l
 RT: 9.18 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN053452.D
 Acq: 17 Jan 2019 23:07

Tgt Ion: 41 Resp: 12439
 Ion Ratio Lower Upper
 41 100
 69 0.0 73.8 110.6#
 39 0.0 40.0 60.0#





#49

1,4-Dioxane

Concen: 1.453 ug/l

RT: 9.26 min Scan# 2328

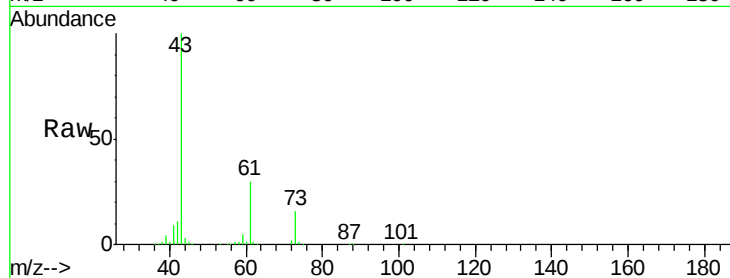
Delta R.T. 0.06 min

Lab File: VN053452.D

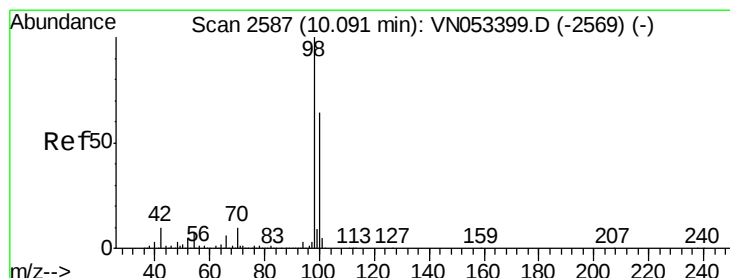
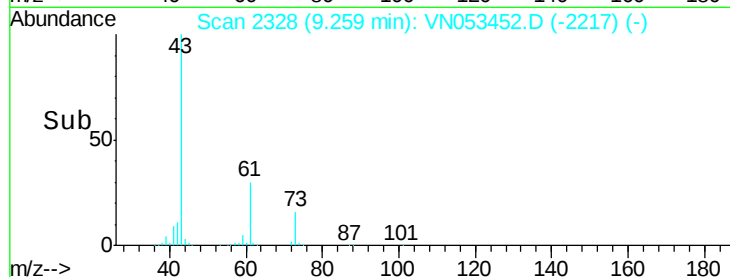
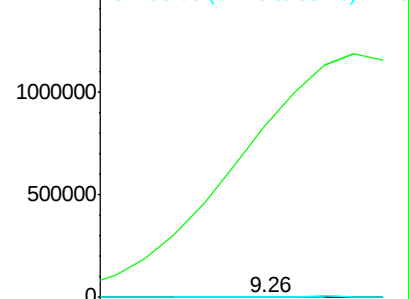
Acq: 17 Jan 2019 23:07

Tot Ion: 88 Resp: 99

Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.8	41.6#
58	0.0	56.5	84.7#



Abundance Ion 88.00 (87.70 to 88.70): VN053399.D (-2294) (-)



#50

Toluene-d8

Concen: 1.453 ug/l

RT: 10.09 min Scan# 2587

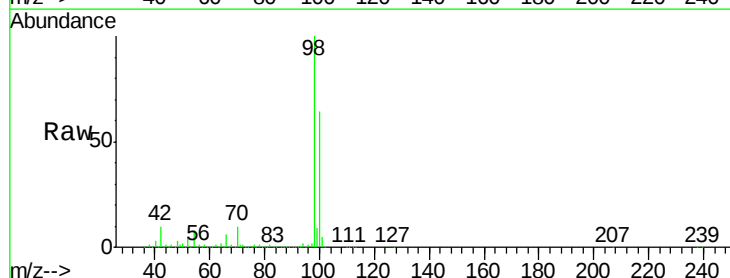
Delta R.T. 0.00 min

Lab File: VN053452.D

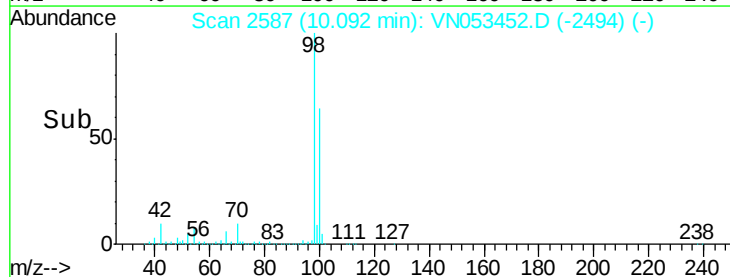
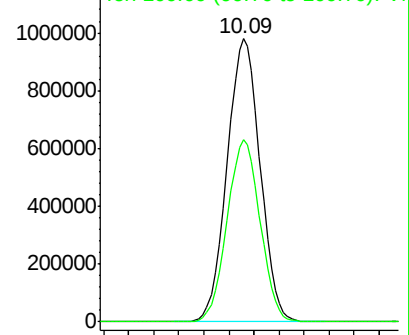
Acq: 17 Jan 2019 23:07

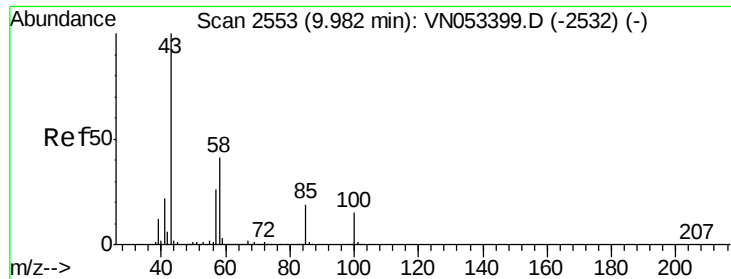
Tgt Ion: 98 Resp: 1795087

Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.4	77.0



Abundance Ion 98.00 (97.70 to 98.70): VN053399.D (-2569) (-)





#51

4-Methyl-2-Pentanone

Concen: 2.047 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053452.D

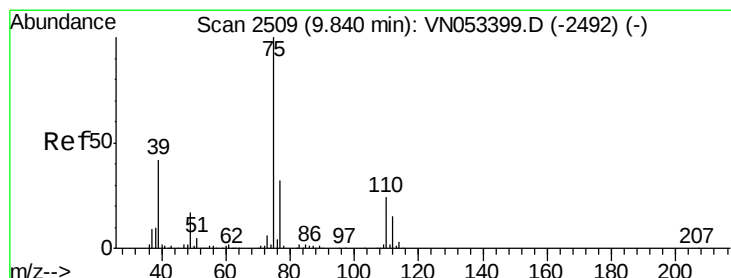
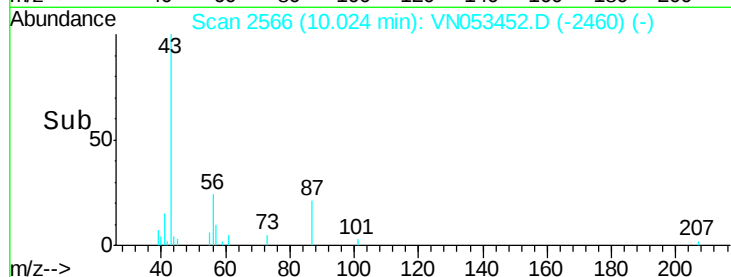
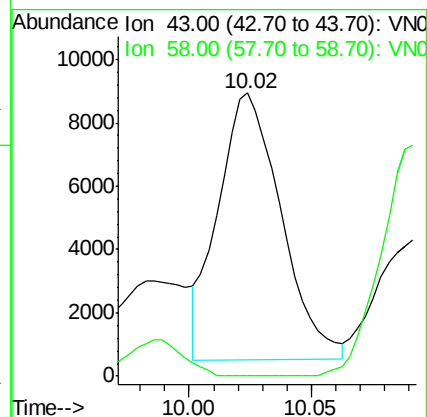
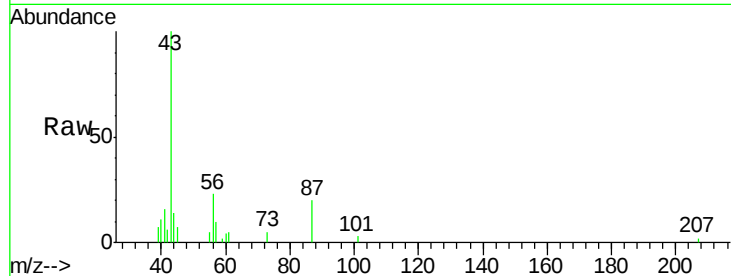
Acq: 17 Jan 2019 23:07

Tot Ion: 43 Resp: 15099

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#



#54

cis-1,3-Dichloropropene

Concen: 6.647 ug/l

RT: 9.91 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN053452.D

Acq: 17 Jan 2019 23:07

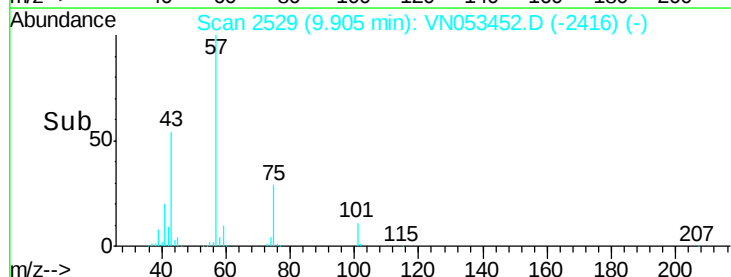
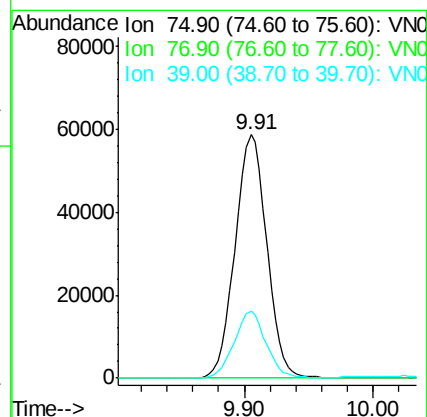
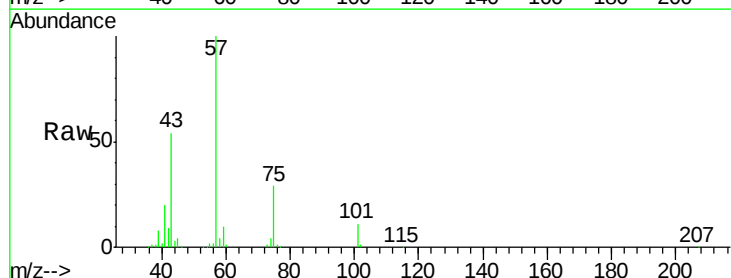
Tgt Ion: 75 Resp: 100347

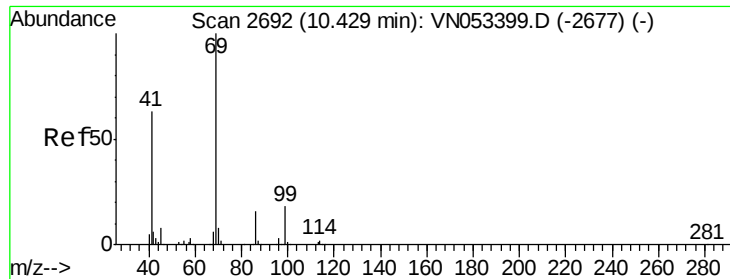
Ion Ratio Lower Upper

75 100

77 0.4 25.8 38.6#

39 27.3 33.4 50.0#





#56

Ethyl methacrylate

Concen: 2.190 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN053452.D

Acq: 17 Jan 2019 23:07

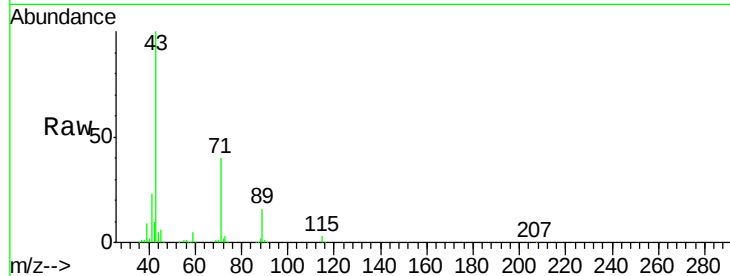
Tot Ion: 69 Resp: 1660

Ion Ratio Lower Upper

69 100

41 4217.0 49.4 74.0#

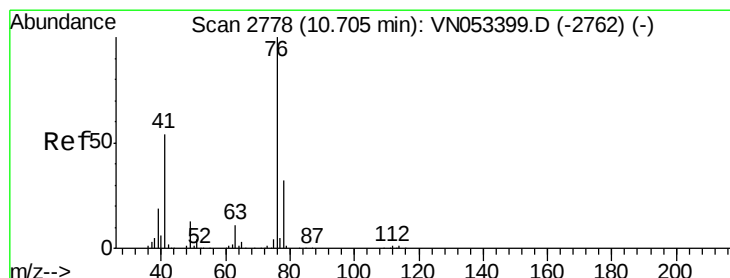
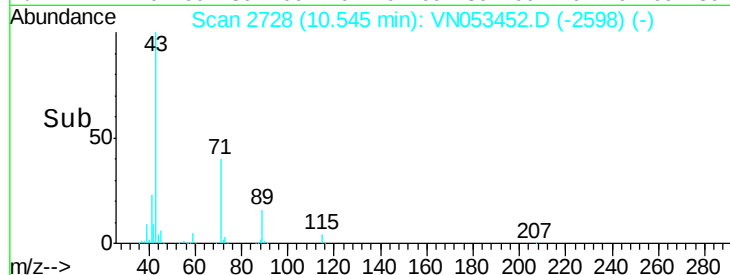
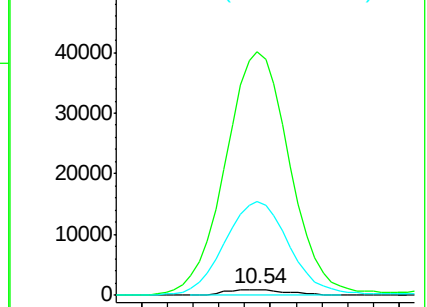
39 1629.6 23.3 34.9#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.451 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN053452.D

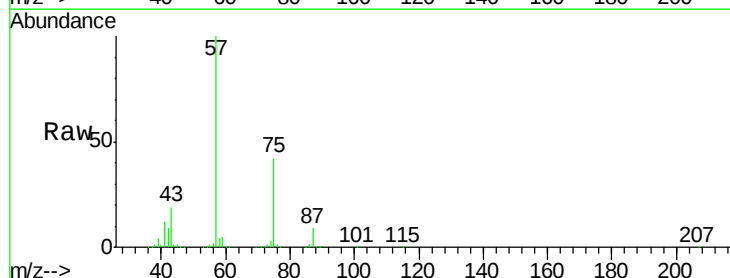
Acq: 17 Jan 2019 23:07

Tgt Ion: 76 Resp: 21334

Ion Ratio Lower Upper

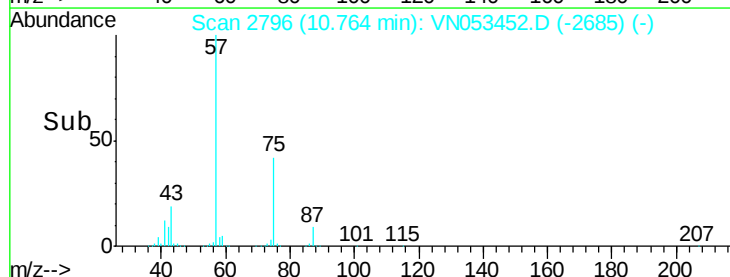
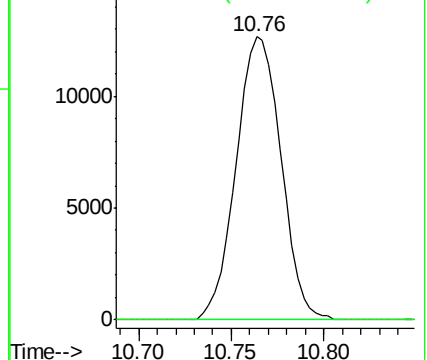
76 100

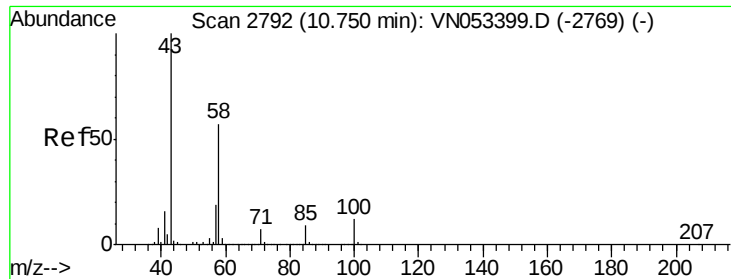
78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

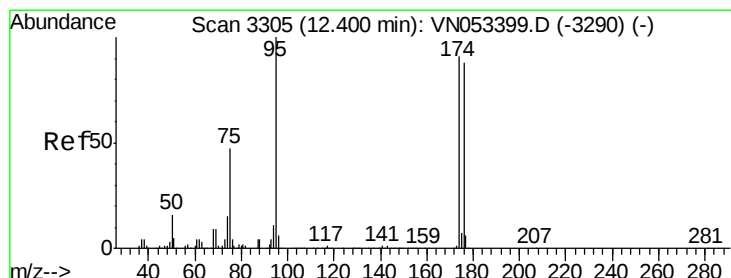
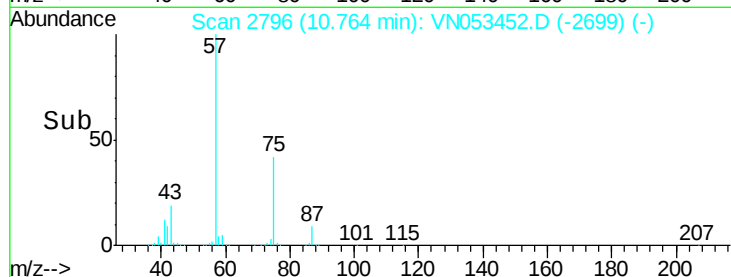
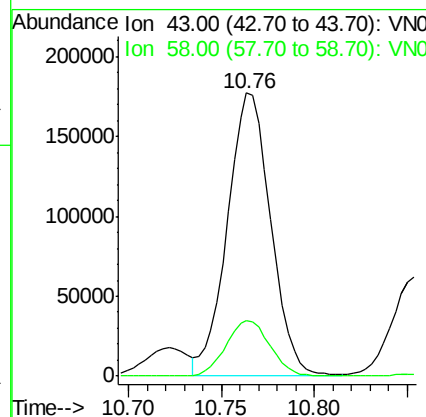
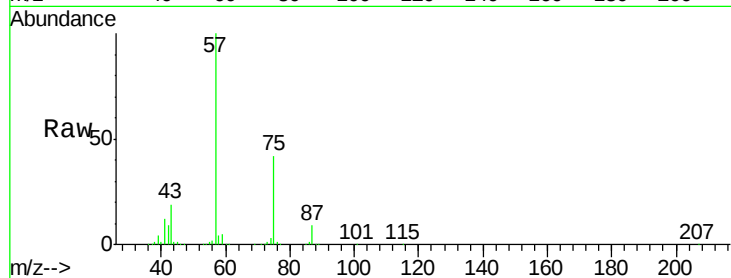
Ion 77.90 (77.60 to 78.60): VN0





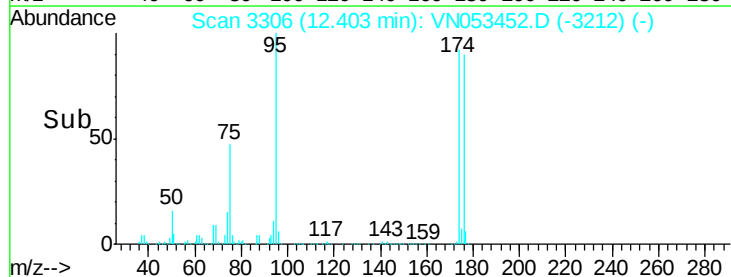
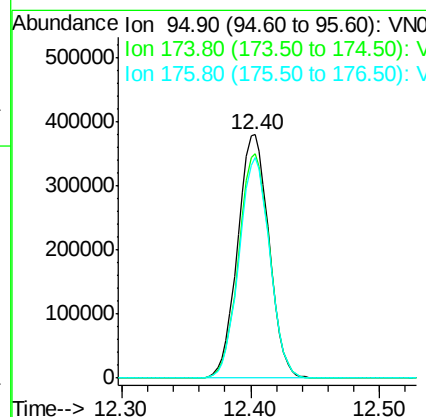
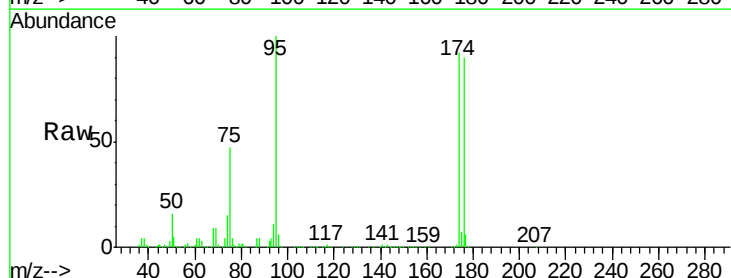
#59
2-Hexanone
Concen: 55.094 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053452.D
Acq: 17 Jan 2019 23:07

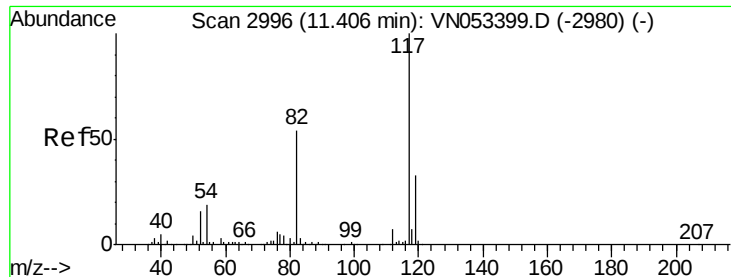
Tot Ion: 43 Resp: 285344
Ion Ratio Lower Upper
43 100
58 20.1 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053452.D
Acq: 17 Jan 2019 23:07

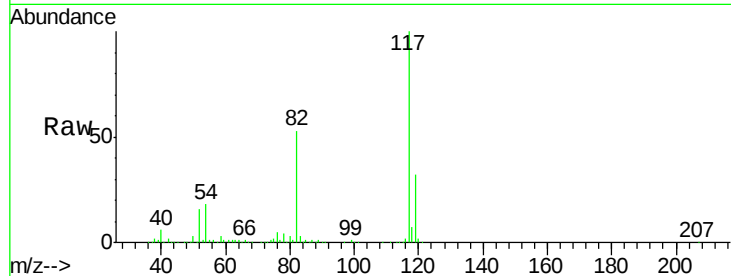
Tgt Ion: 95 Resp: 640495
Ion Ratio Lower Upper
95 100
174 91.3 0.0 183.2
176 89.0 0.0 177.4



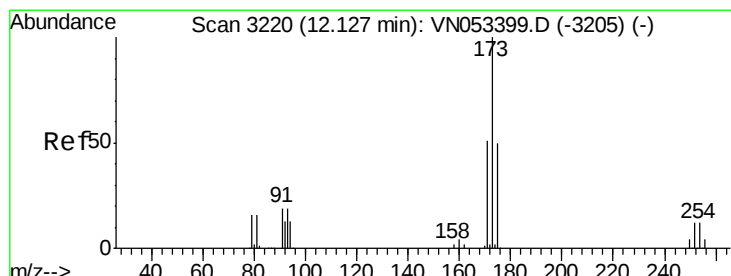
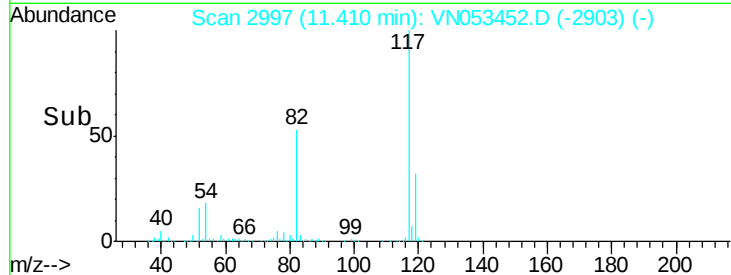
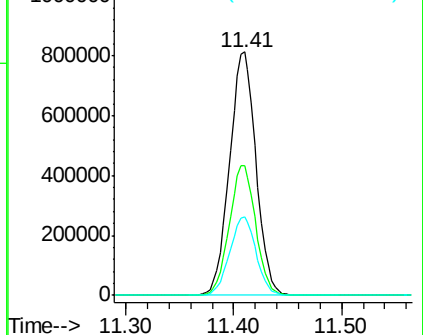


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053452.D
Acq: 17 Jan 2019 23:07

Tot Ion:117 Resp: 1387120
Ion Ratio Lower Upper
117 100
82 53.0 42.9 64.3
119 32.2 26.0 39.0

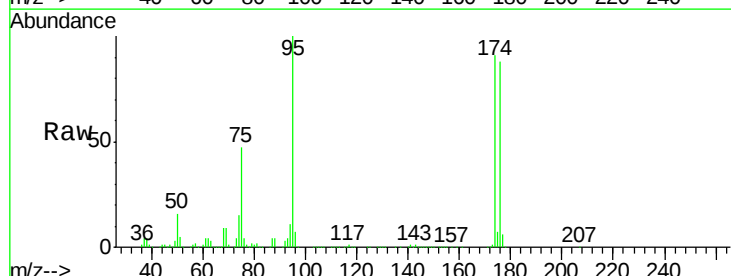


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

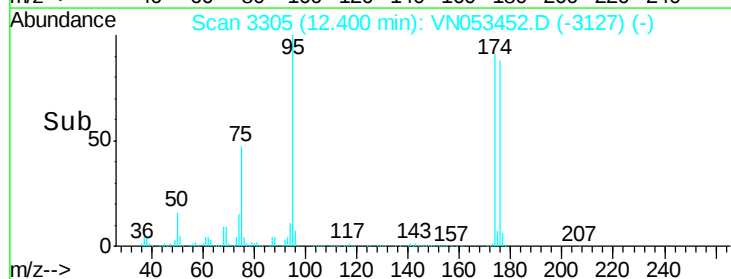
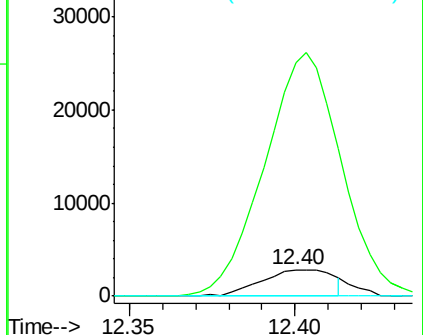


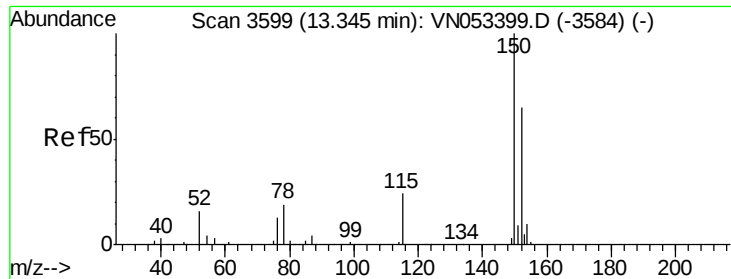
#71
Bromoform
Concen: 0.606 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN053452.D
Acq: 17 Jan 2019 23:07

Tgt Ion:173 Resp: 4263
Ion Ratio Lower Upper
173 100
175 861.8 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

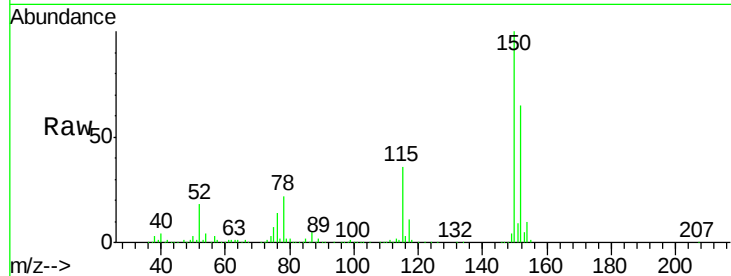




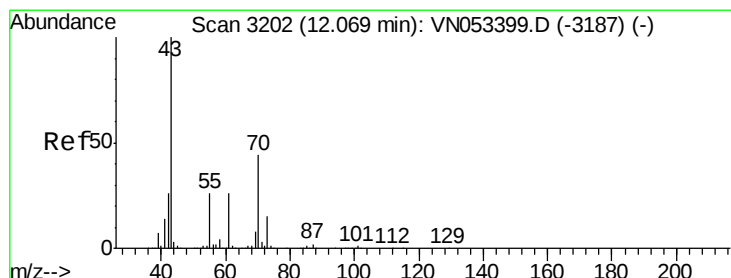
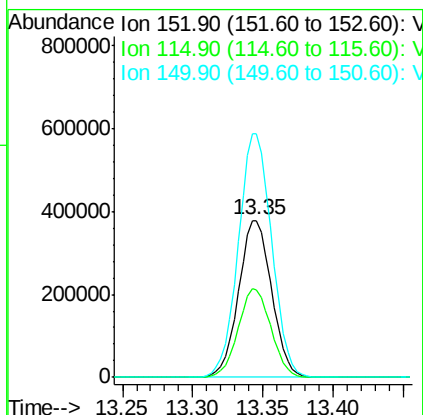
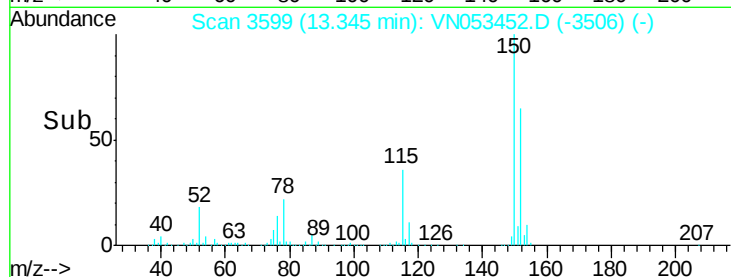
#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053452.D
Acq: 17 Jan 2019 23:07

Tot Ion	Ratio	Lower	Upper
152	100		
115	56.1	27.8	83.4
150	156.7	0.0	349.0



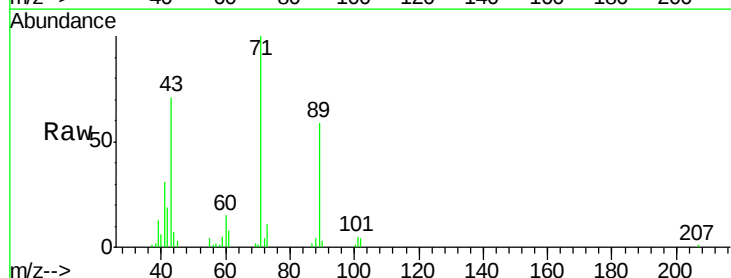
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



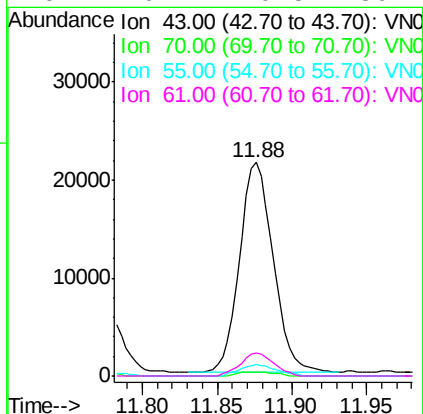
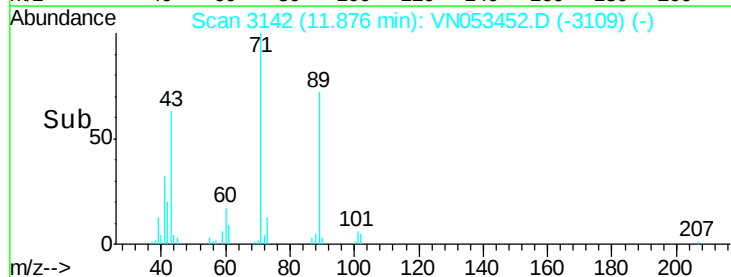
#74

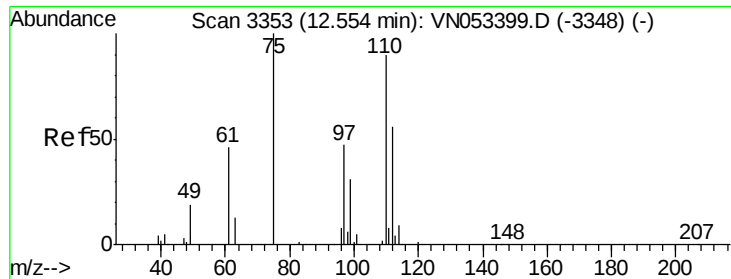
N-ethyl acetate
Concen: 2.781 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN053452.D
Acq: 17 Jan 2019 23:07

Tgt Ion	Ratio	Lower	Upper
43	100		
70	2.2	35.4	53.2#
55	5.9	20.9	31.3#
61	10.7	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

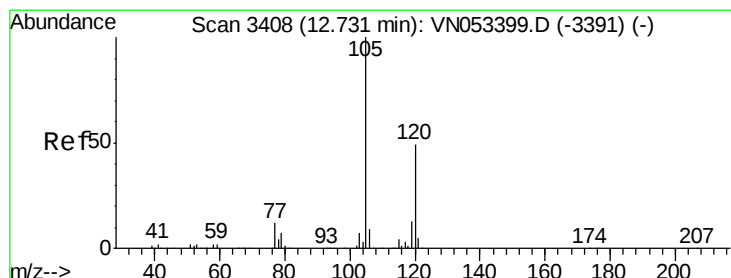
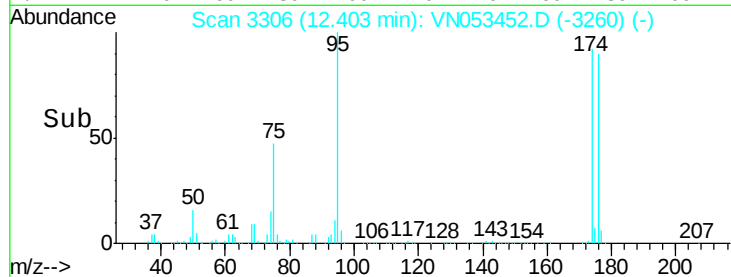
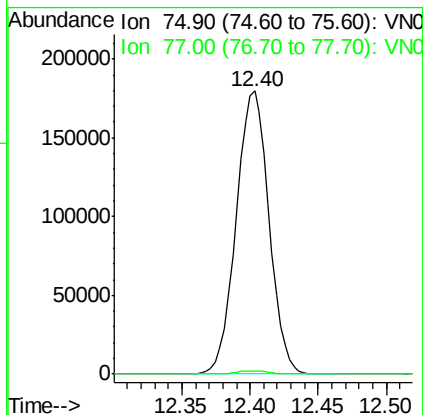
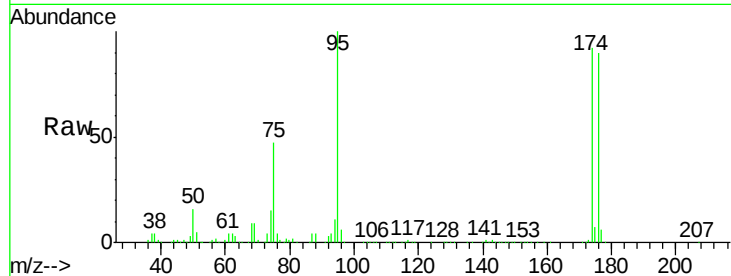




#76

1,2,3-Trichloropropane
 Concen: 36.547 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN053452.D
 Acq: 17 Jan 2019 23:07

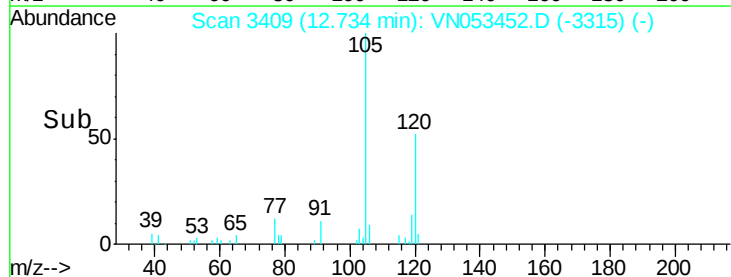
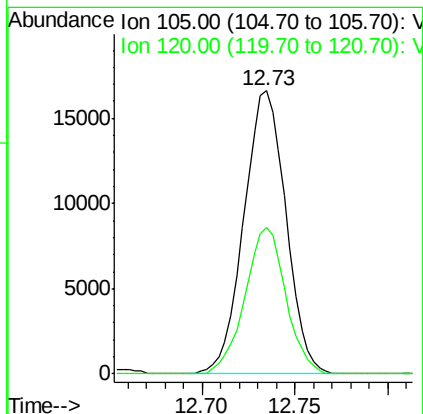
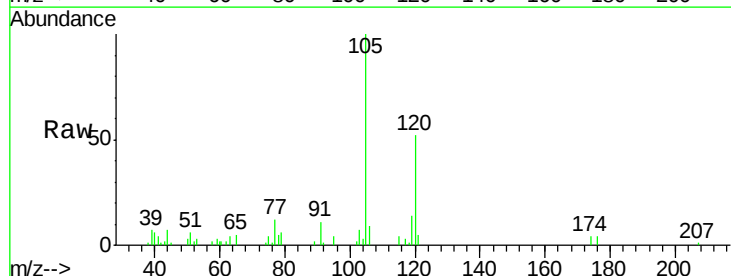
Tot Ion	Ratio	Lower	Upper
75	100		
77	1.2	0.0	0.0#

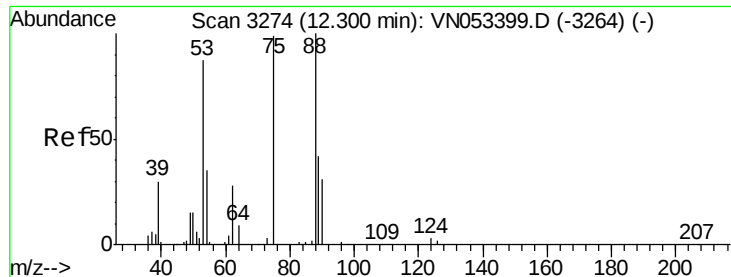


#80

1,3,5-Trimethylbenzene
 Concen: 0.710 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN053452.D
 Acq: 17 Jan 2019 23:07

Tgt Ion	Ratio	Lower	Upper
105	100		
120	50.2	24.9	74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 90.339 ug/l

RT: 12.40 min Scan# 3306

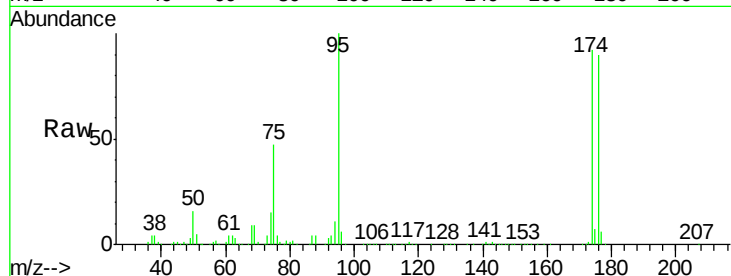
Delta R.T. 0.10 min

Lab File: VN053452.D

Acq: 17 Jan 2019 23:07

Tot Ion: 75 Resp: 299678

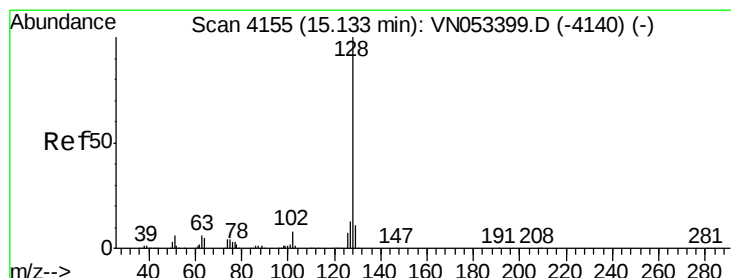
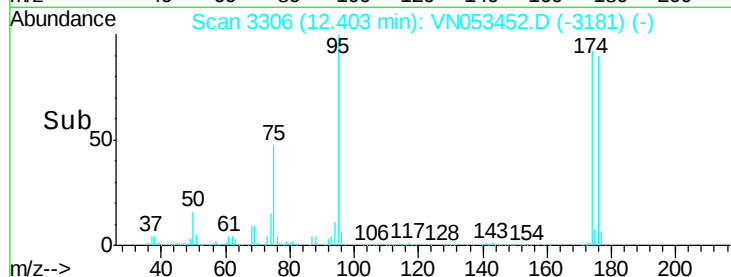
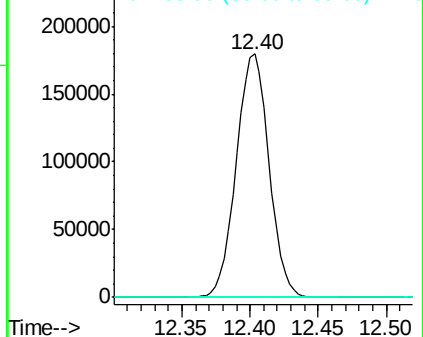
Ion	Ratio	Lower	Upper
75	100		
53	0.0	69.8	104.6#
89	0.0	35.6	53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN053399.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN053399.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN053399.D (-3264) (-)



#95

Naphthalene

Concen: 3.943 ug/l

RT: 15.15 min Scan# 4159

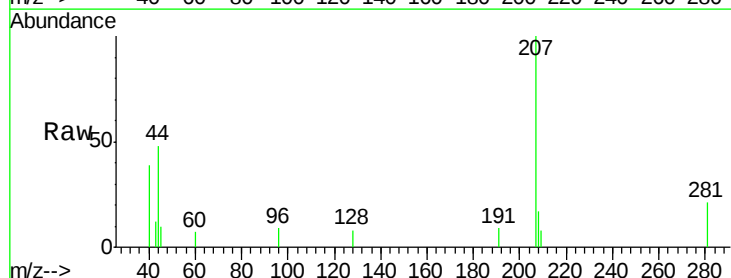
Delta R.T. 0.01 min

Lab File: VN053452.D

Acq: 17 Jan 2019 23:07

Tgt Ion: 128 Resp: 70

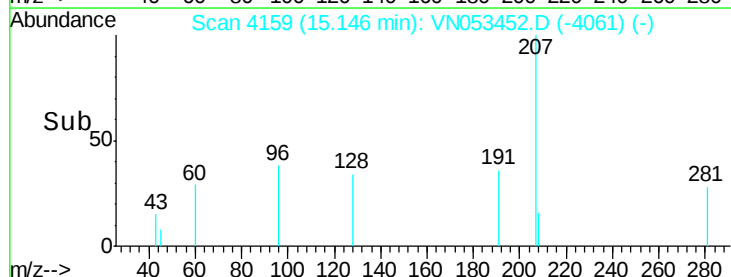
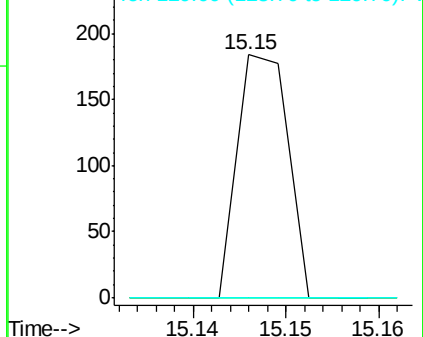
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	8.6	13.0#

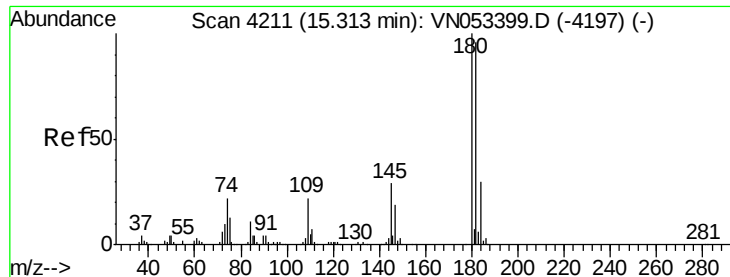


Abundance Ion 128.00 (127.70 to 128.70): VN053399.D (-4140) (-)

Ion 127.00 (126.70 to 127.70): VN053399.D (-4140) (-)

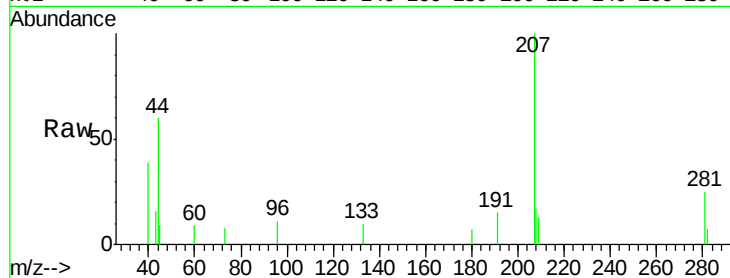
Ion 129.00 (128.70 to 129.70): VN053399.D (-4140) (-)





#96
 1,2,3-Trichlorobenzene
 Concen: 3.908 ug/l
 RT: 15.32 min Scan# 4213
 Delta R.T. 0.01 min
 Lab File: VN053452.D
 Acq: 17 Jan 2019 23:07

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.9	143.8#
145	0.0	14.7	44.1#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

