

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011719\
 Data File : VN053451.D
 Acq On : 17 Jan 2019 22:40
 Operator : JC/SP
 Sample : PB116439ZHE#13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 28

Quant Time: Jan 18 00:14:41 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	914127	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1426843	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1391765	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	609328	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	467425	51.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.46%	
35) Dibromofluoromethane	7.59	113	414924	50.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.90%	
50) Toluene-d8	10.09	98	1815160	52.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.42%	
62) 4-Bromofluorobenzene	12.40	95	632547	52.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.76%	

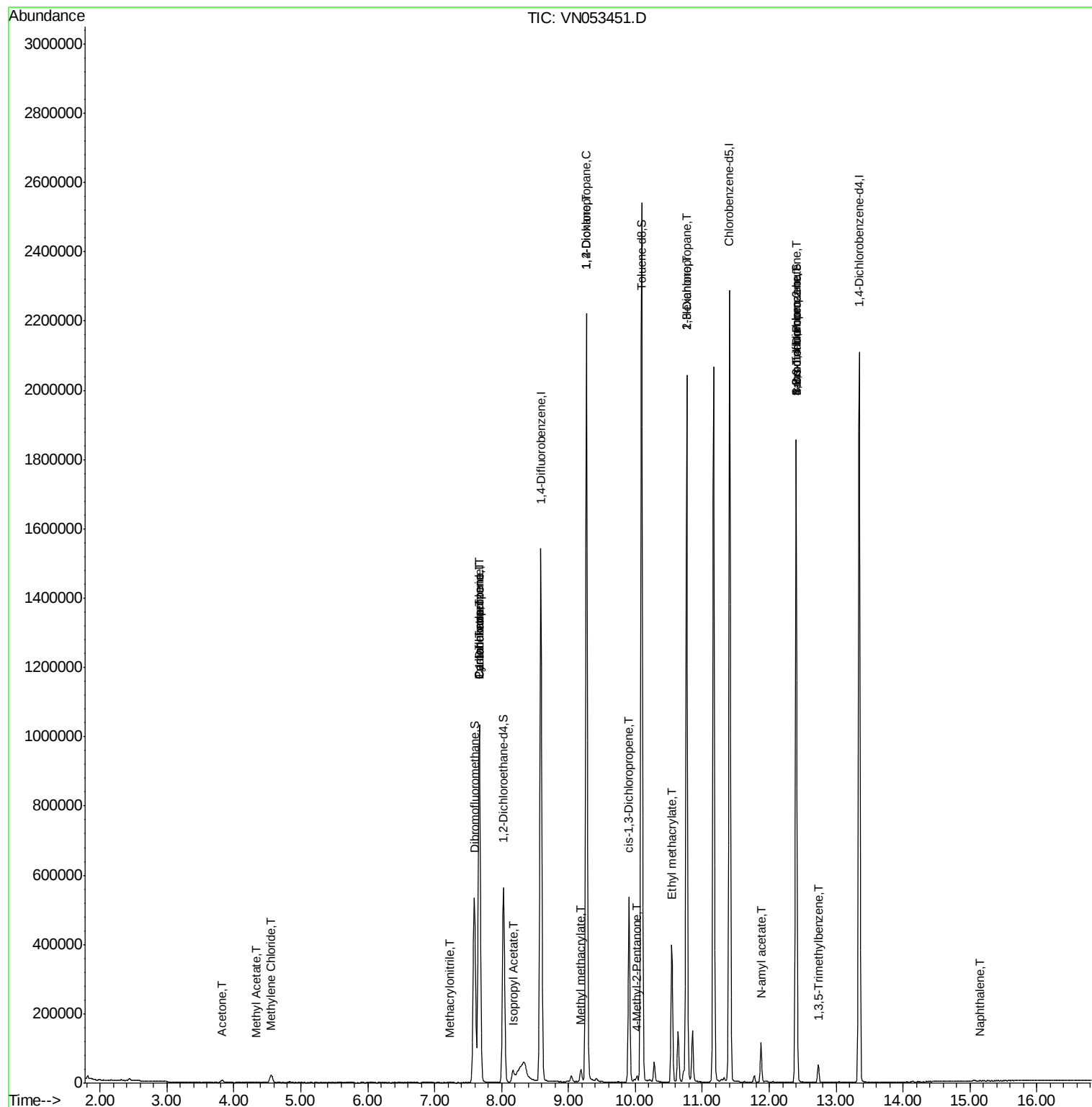
Target Compounds

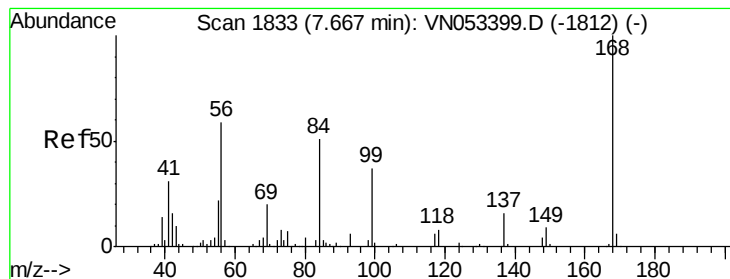
					Qvalue	
16) Acetone	3.82	43	11855	5.592	ug/l	97
18) Methyl Acetate	4.34	43	3726	0.522	ug/l #	65
20) Methylene Chloride	4.56	84	17585	1.817	ug/l	97
31) Cyclohexane	7.67	56	14682	0.704	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	59592	4.586	ug/l #	49
38) Carbon Tetrachloride	7.67	117	78729	6.400	ug/l #	16
41) Methacrylonitrile	7.22	41	1062	0.903	ug/l #	20
43) Isopropyl Acetate	8.17	43	46526	3.461	ug/l #	79
45) 1,2-Dichloropropane	9.27	63	2993	0.286	ug/l #	43
48) Methyl methacrylate	9.18	41	13037	1.878	ug/l #	12
49) 1,4-Dioxane	9.26	88	181	2.670	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	15070	2.054	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	100922	6.721	ug/l #	62
56) Ethyl methacrylate	10.54	69	1934	2.212	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	21393	1.463	ug/l #	43
59) 2-Hexanone	10.77	43	284551	55.237	ug/l #	50
71) Bromoform	12.40	173	4009	0.568	ug/l #	1
74) N-amyl acetate	11.88	43	33819	2.843	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	295359	36.783	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	26737	0.736	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	295359	90.905	ug/l #	15
95) Naphthalene	15.14	128	173	3.950	ug/l #	69

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

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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: VN053451.D

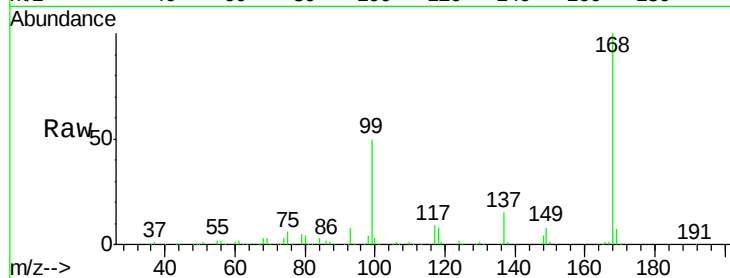
Acq: 17 Jan 2019 22:40

Tot Ion:168 Resp: 914127

Ion Ratio Lower Upper

168 100

99 49.5 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

300000

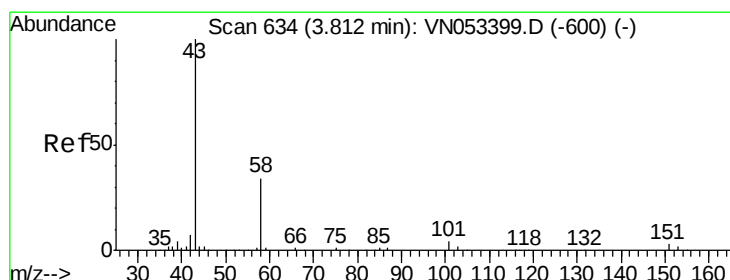
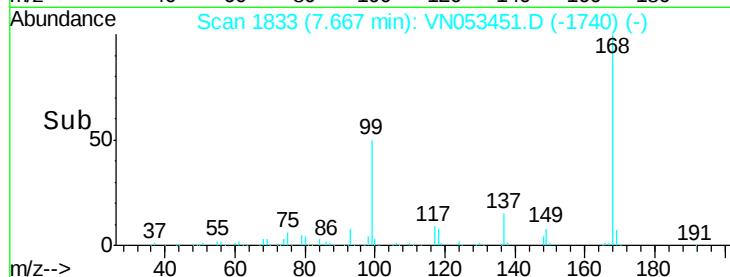
200000

100000

0

7.60 7.70 7.80

Time-->



#16

Acetone

Concen: 5.592 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053451.D

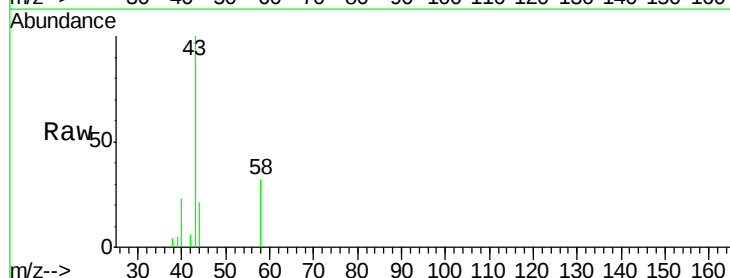
Acq: 17 Jan 2019 22:40

Tgt Ion: 43 Resp: 11855

Ion Ratio Lower Upper

43 100

58 32.4 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.82

5000

4000

3000

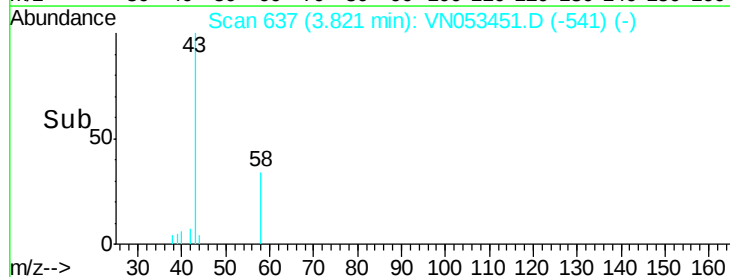
2000

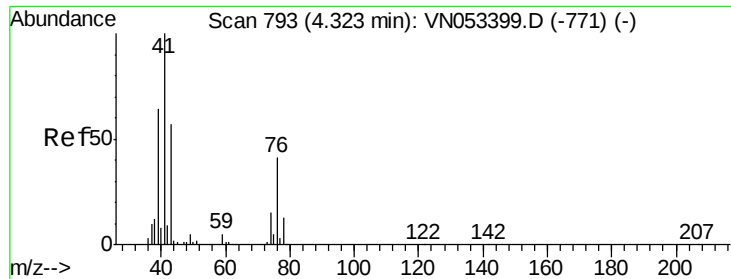
1000

0

3.70 3.80 3.90

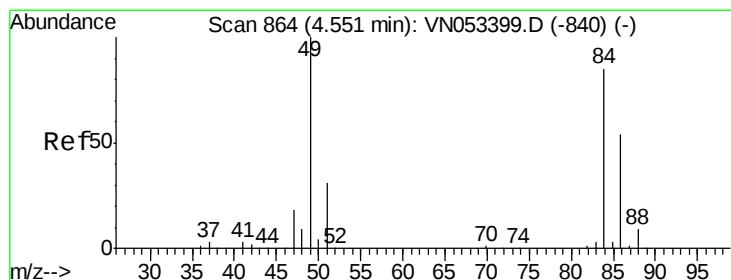
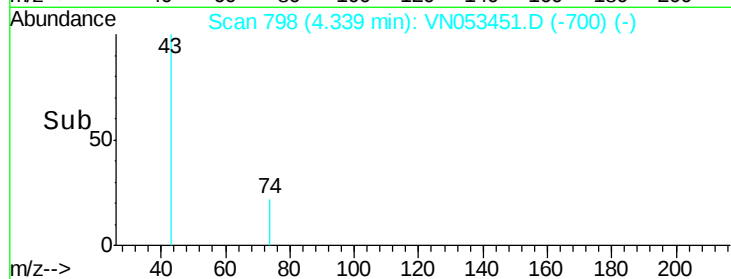
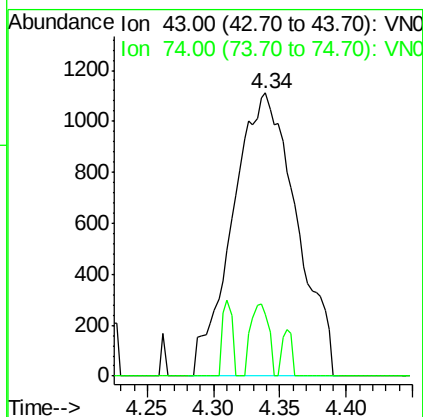
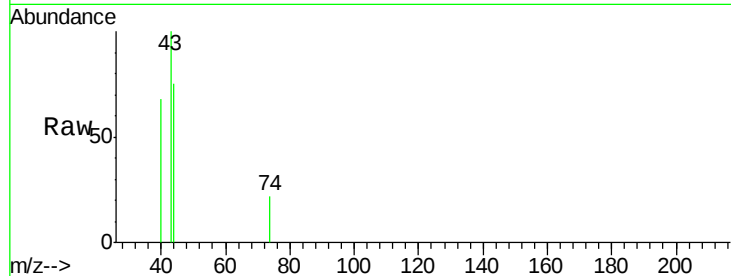
Time-->





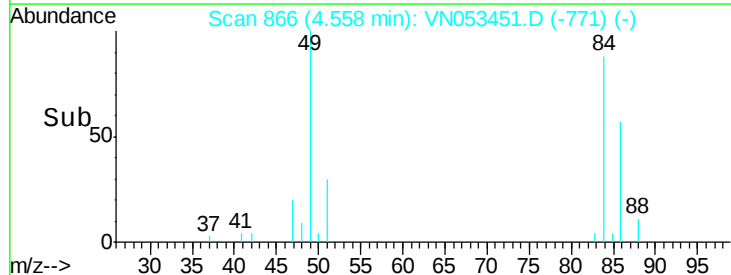
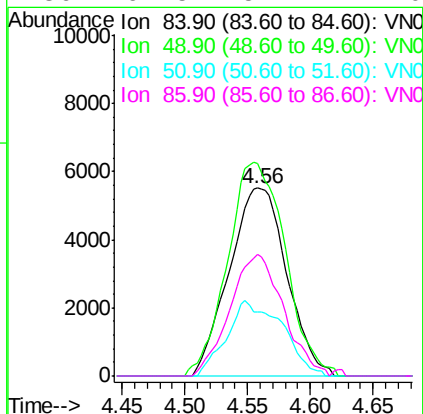
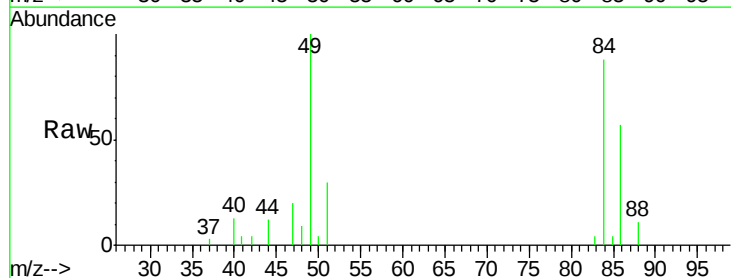
#18
Methyl Acetate
Concen: 0.522 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.02 min
Lab File: VN053451.D
Acq: 17 Jan 2019 22:40

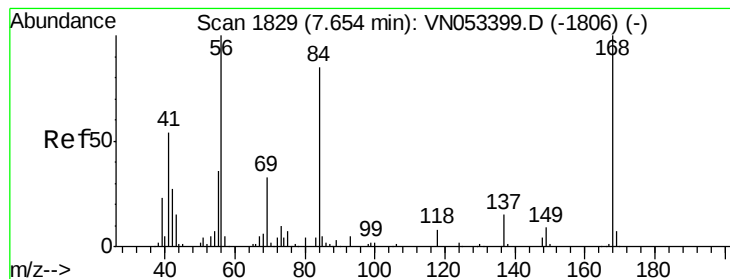
Tot Ion: 43 Resp: 3726
Ion Ratio Lower Upper
43 100
74 7.1 19.4 29.2#



#20
Methylene Chloride
Concen: 1.817 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN053451.D
Acq: 17 Jan 2019 22:40

Tgt Ion: 84 Resp: 17585
Ion Ratio Lower Upper
84 100
49 113.5 94.3 141.5
51 34.1 29.4 44.2
86 64.5 51.4 77.0





#31

Cvclohexane

Concen: 0.704 ug/l

RT: 7.67 min Scan# 1834

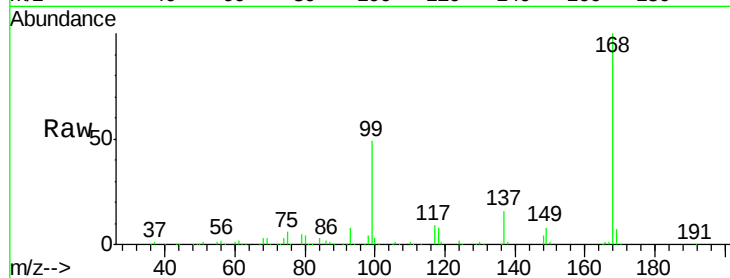
Delta R.T. 0.02 min

Lab File: VN053451.D

Acq: 17 Jan 2019 22:40

Tot Ion: 56 Resp: 14682

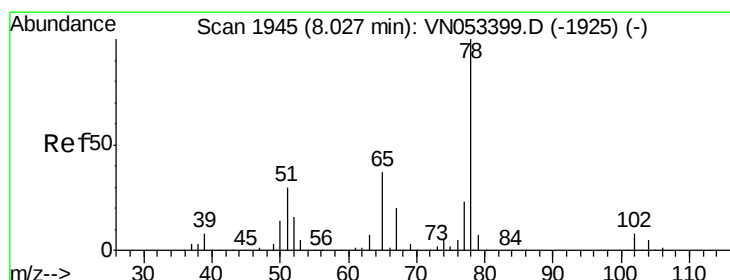
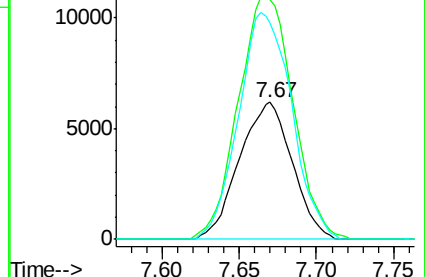
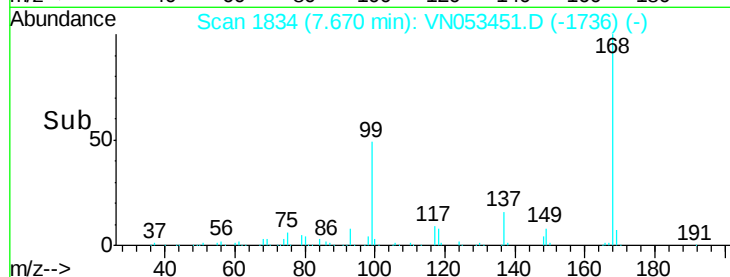
Ion	Ratio	Lower	Upper
56	100		
69	174.8	26.4	39.6#
84	158.0	67.9	101.9#



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: Below ug/l

RT: 8.03 min Scan# 1946

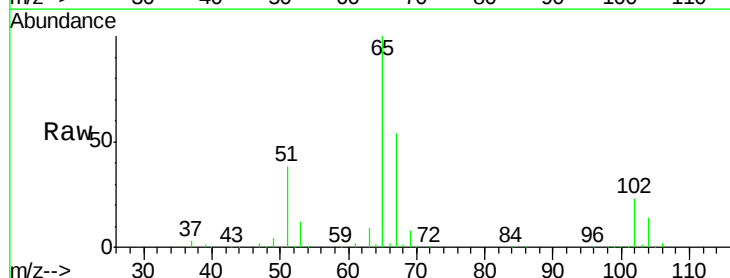
Delta R.T. 0.00 min

Lab File: VN053451.D

Acq: 17 Jan 2019 22:40

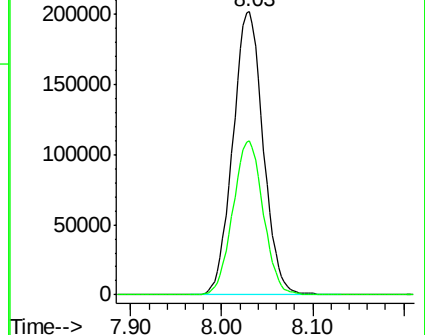
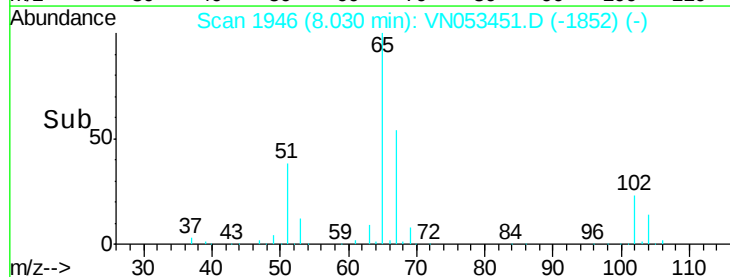
Tgt Ion: 65 Resp: 467425

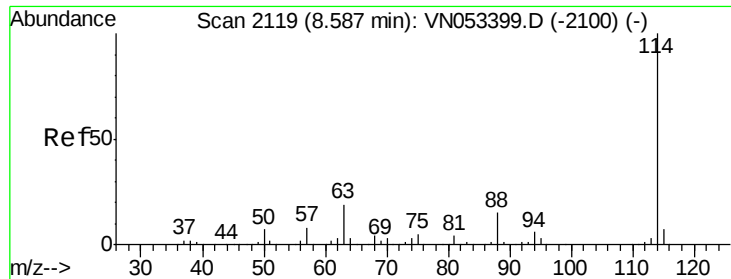
Ion	Ratio	Lower	Upper
65	100		
67	54.5	0.0	111.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

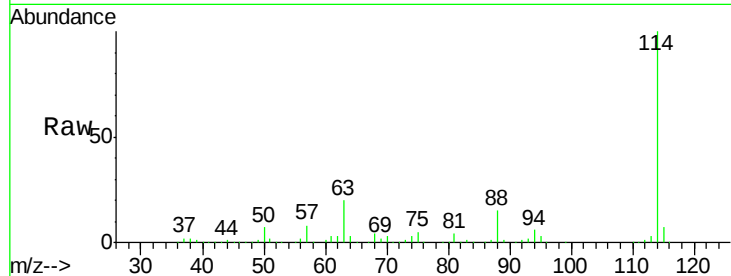




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN053451.D
Acq: 17 Jan 2019 22:40

Tot Ion:114 Resp: 1426843

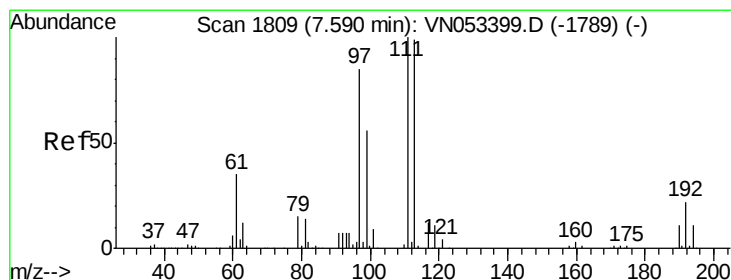
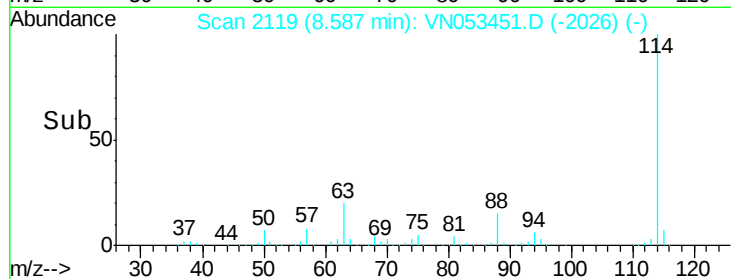
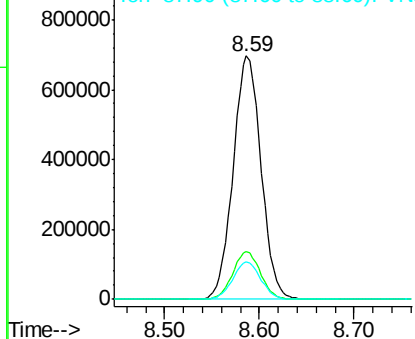
Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	38.6
88	15.4	0.0	30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

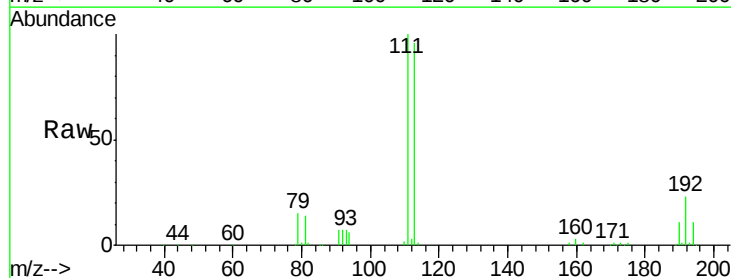
Ion 87.90 (87.60 to 88.60): V



#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN053451.D
Acq: 17 Jan 2019 22:40

Tgt Ion:113 Resp: 414924

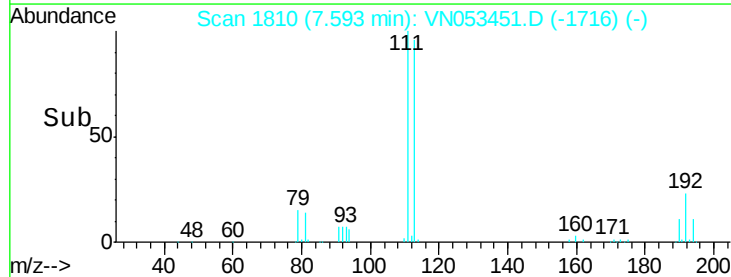
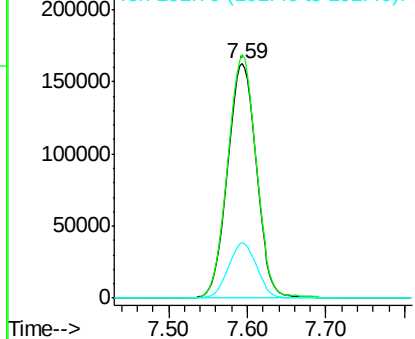
Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.1	121.7
192	23.1	18.2	27.2

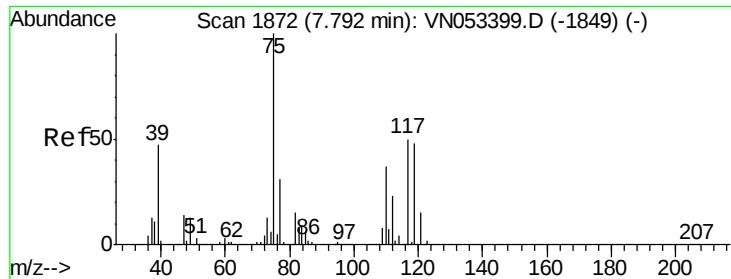


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.586 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053451.D

Acq: 17 Jan 2019 22:40

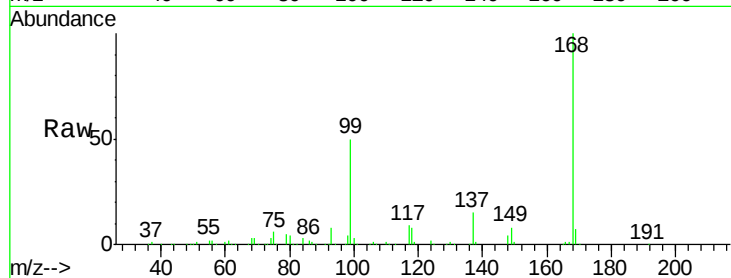
Tot Ion: 75 Resp: 59592

Ion Ratio Lower Upper

75 100

110 8.9 18.1 54.3#

77 0.0 25.1 37.7#

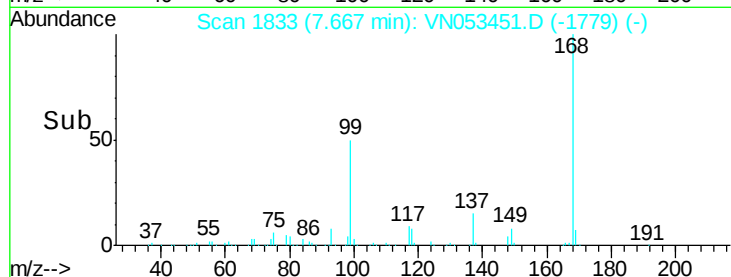


Abundance Ion 74.90 (74.60 to 75.60): VN053399.D (-1849) (-)

Ion 109.90 (109.60 to 110.60): VN053399.D (-1849) (-)

Ion 76.90 (76.60 to 77.60): VN053399.D (-1849) (-)

Time-->

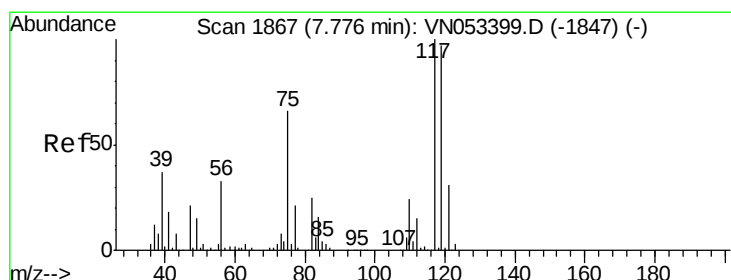


Abundance Ion 74.90 (74.60 to 75.60): VN053399.D (-1849) (-)

Ion 109.90 (109.60 to 110.60): VN053399.D (-1849) (-)

Ion 76.90 (76.60 to 77.60): VN053399.D (-1849) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.400 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053451.D

Acq: 17 Jan 2019 22:40

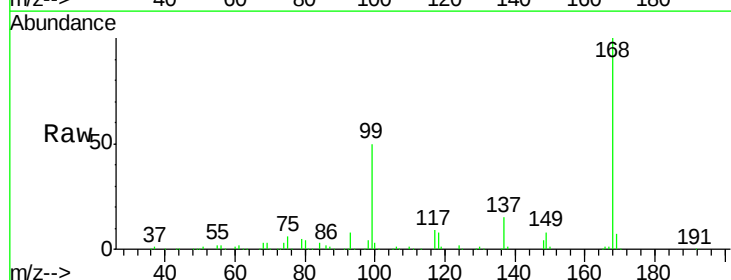
Tgt Ion: 117 Resp: 78729

Ion Ratio Lower Upper

117 100

119 6.1 77.2 115.8#

121 0.0 24.6 37.0#

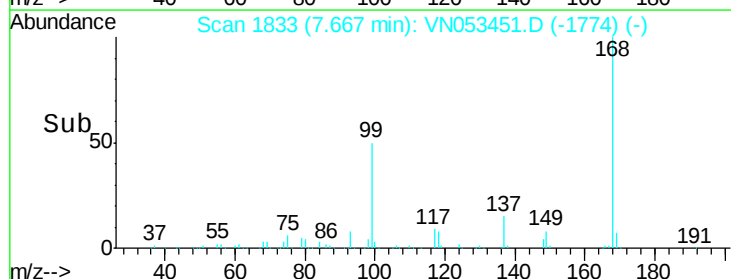


Abundance Ion 116.80 (116.50 to 117.50): VN053399.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN053399.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN053399.D (-1847) (-)

Time-->

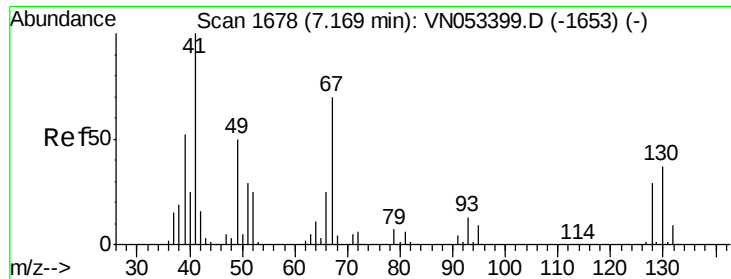


Abundance Ion 116.80 (116.50 to 117.50): VN053399.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN053399.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN053399.D (-1847) (-)

Time-->



#41

Methacrylonitrile

Concen: 0.903 ug/l

RT: 7.22 min Scan# 1695

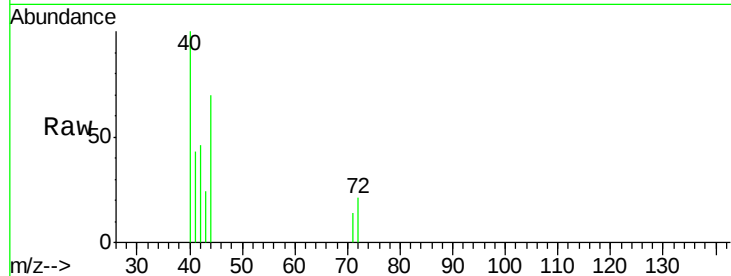
Delta R.T. 0.06 min

Lab File: VN053451.D

Acq: 17 Jan 2019 22:40

Tot Ion: 41 Resp: 1062

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#

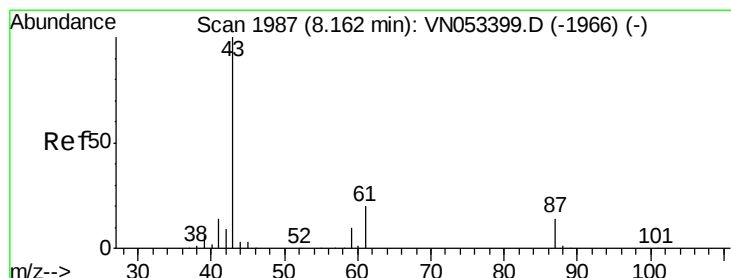
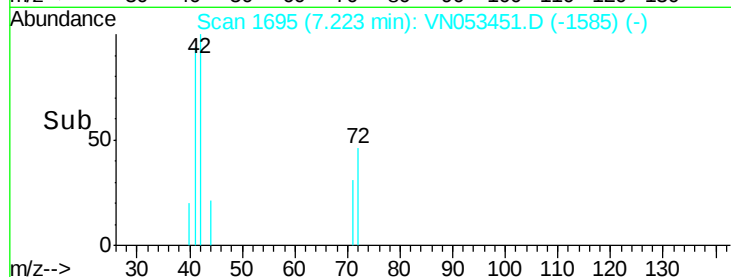
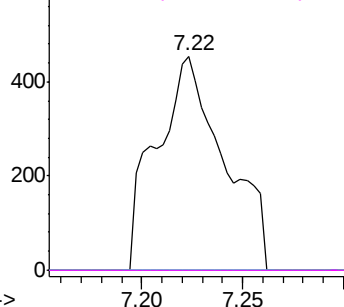


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#43

Isopropyl Acetate

Concen: 3.461 ug/l

RT: 8.17 min Scan# 1989

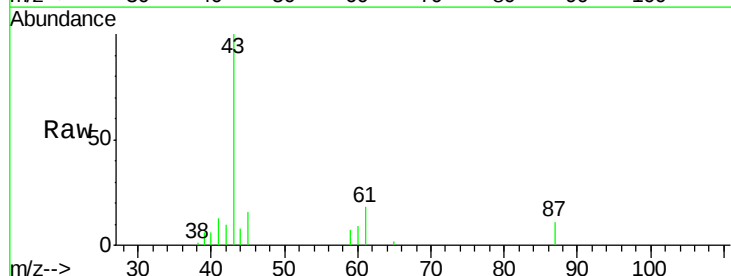
Delta R.T. 0.01 min

Lab File: VN053451.D

Acq: 17 Jan 2019 22:40

Tgt Ion: 43 Resp: 46526

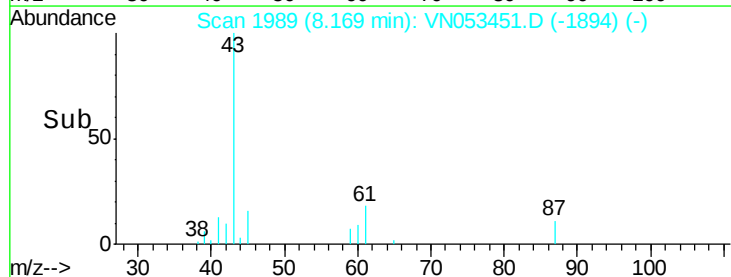
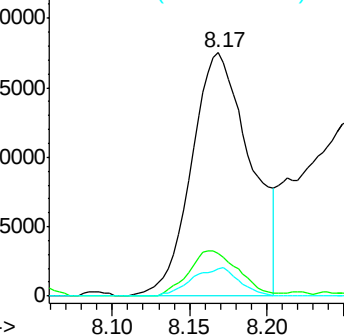
Ion	Ratio	Lower	Upper
43	100		
61	15.7	23.9	35.9#
87	9.3	11.0	16.6#

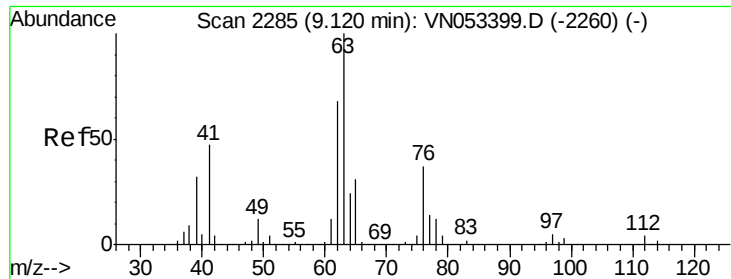


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

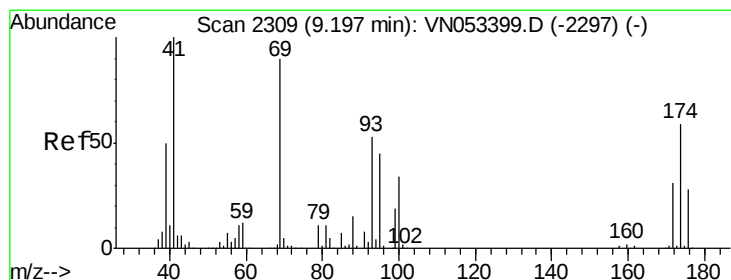
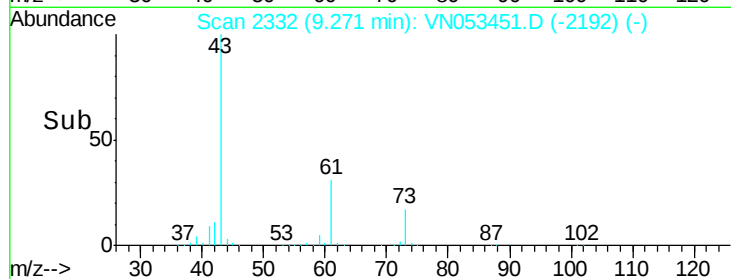
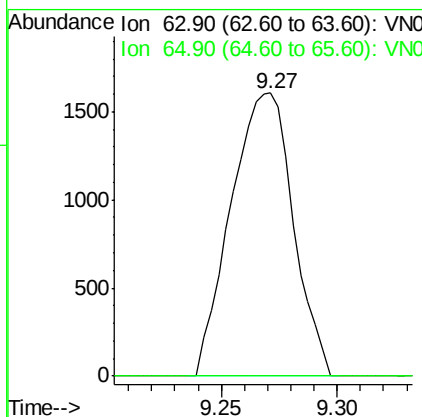
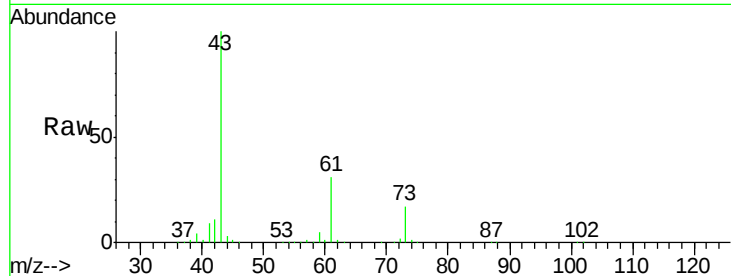
Ion 87.00 (86.70 to 87.70): VN0





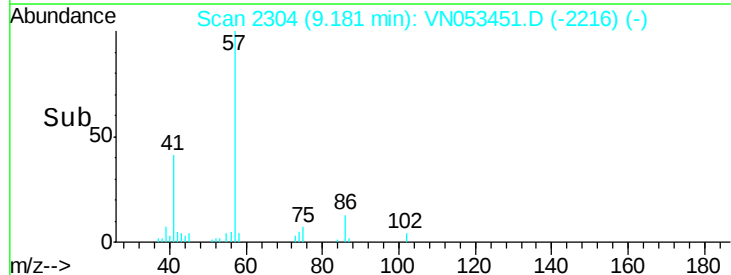
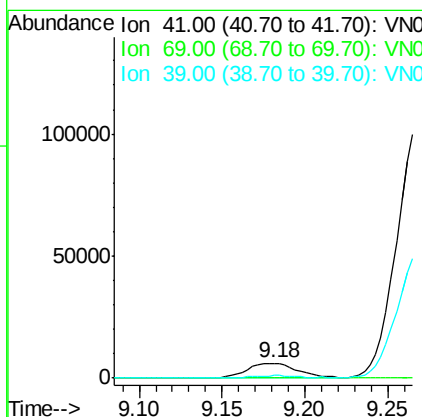
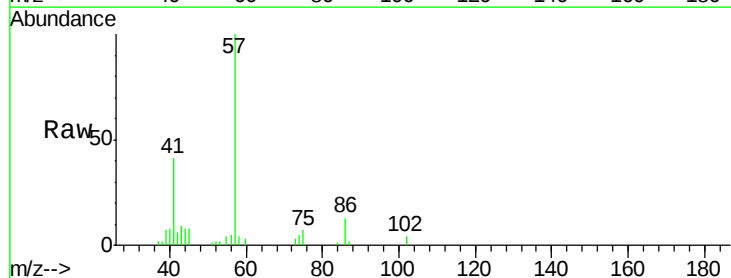
#45
 1,2-Dichloropropane
 Concen: 0.286 ug/l
 RT: 9.27 min Scan# 2332
 Delta R.T. 0.15 min
 Lab File: VN053451.D
 Acq: 17 Jan 2019 22:40

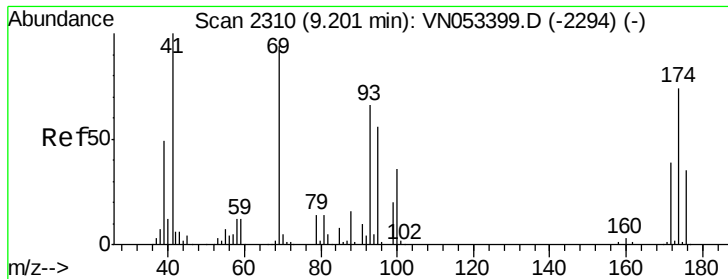
Tot Ion: 63 Resp: 2993
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.878 ug/l
 RT: 9.18 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN053451.D
 Acq: 17 Jan 2019 22:40

Tgt Ion: 41 Resp: 13037
 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: 2.670 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.06 min

Lab File: VN053451.D

Acq: 17 Jan 2019 22:40

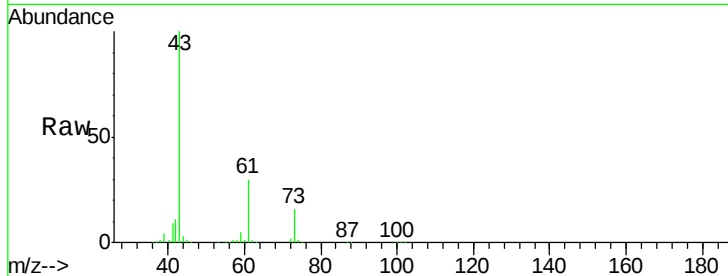
Tot Ion: 88 Resp: 181

Ion Ratio Lower Upper

88 100

43 1194414.9 27.8 41.6#

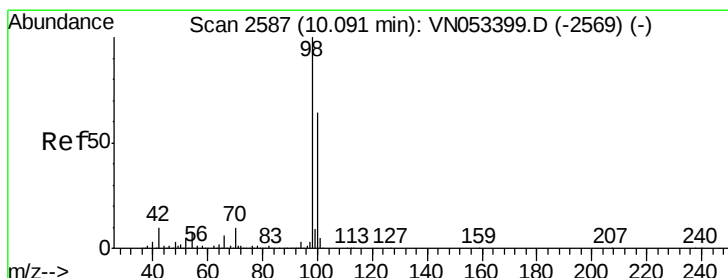
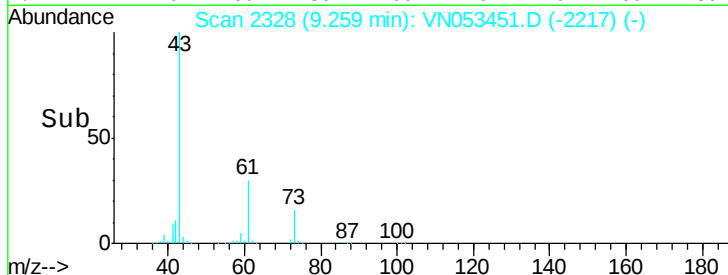
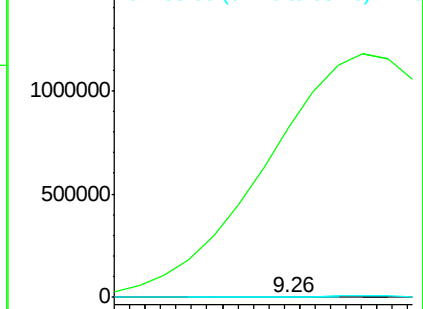
58 5977.9 56.5 84.7#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 2.670 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053451.D

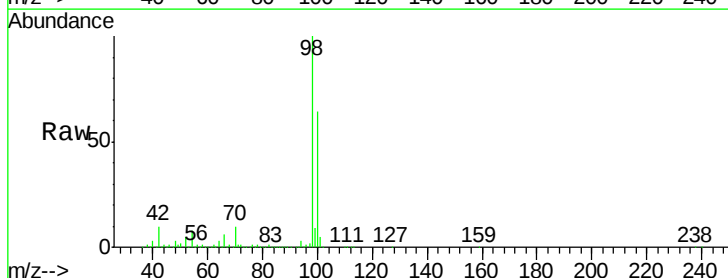
Acq: 17 Jan 2019 22:40

Tgt Ion: 98 Resp: 1815160

Ion Ratio Lower Upper

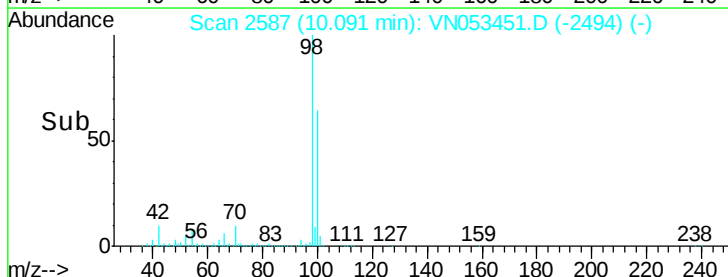
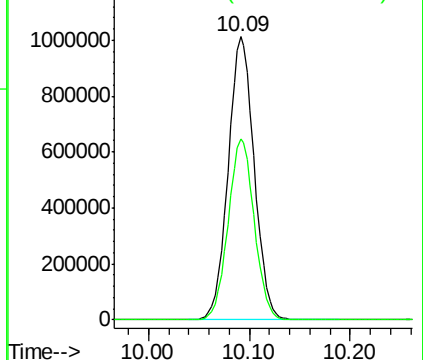
98 100

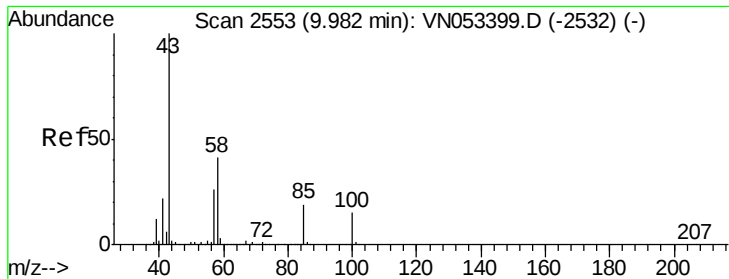
100 64.2 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 2.054 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053451.D

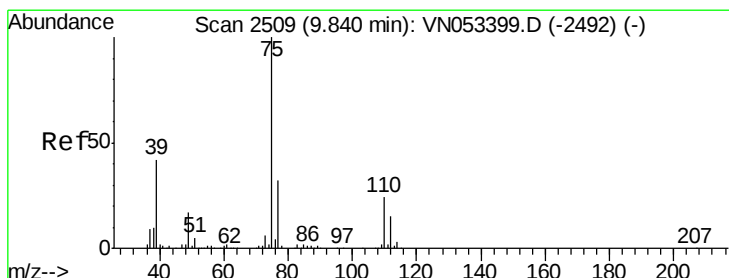
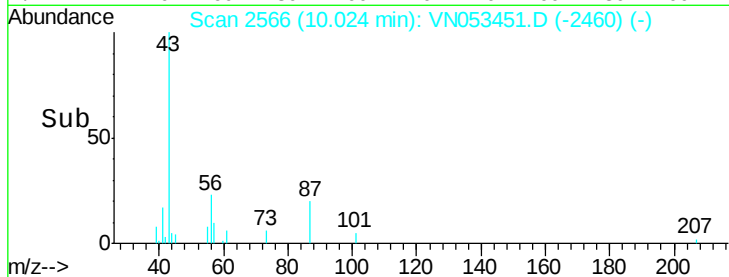
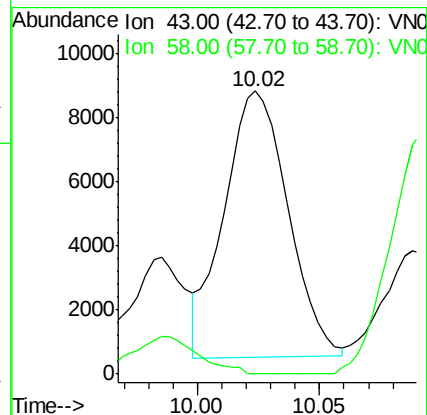
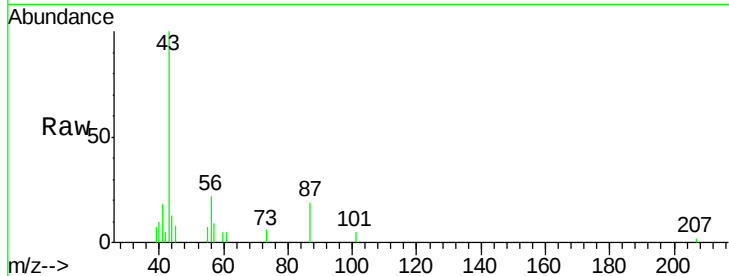
Acq: 17 Jan 2019 22:40

Tot Ion: 43 Resp: 15070

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#



#54

cis-1,3-Dichloropropene

Concen: 6.721 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN053451.D

Acq: 17 Jan 2019 22:40

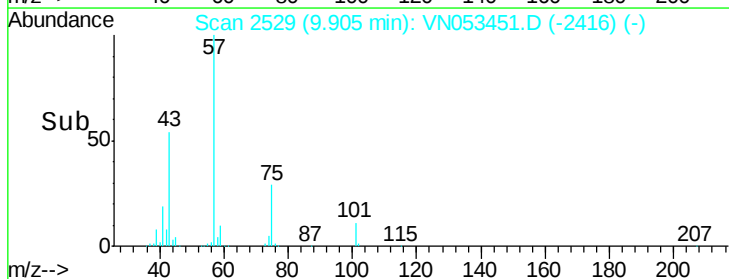
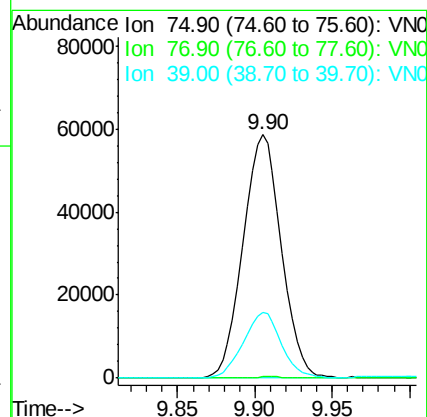
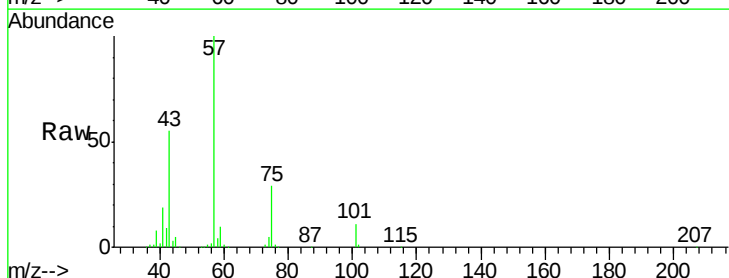
Tgt Ion: 75 Resp: 100922

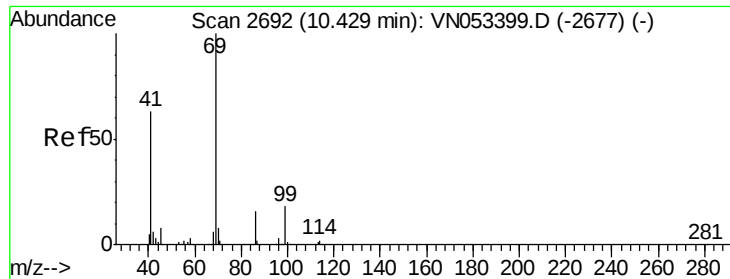
Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.6#

39 27.1 33.4 50.0#





#56

Ethyl methacrylate

Concen: 2.212 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.11 min

Lab File: VN053451.D

Acq: 17 Jan 2019 22:40

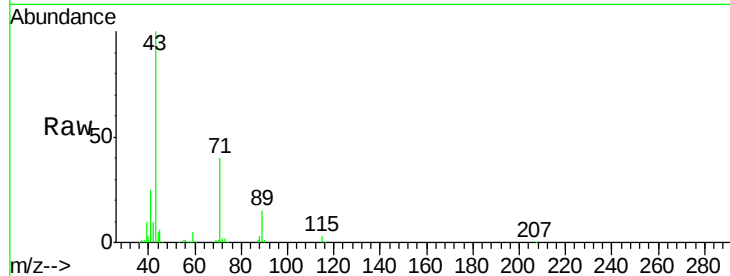
Tot Ion: 69 Resp: 1934

Ion Ratio Lower Upper

69 100

41 3735.5 49.4 74.0#

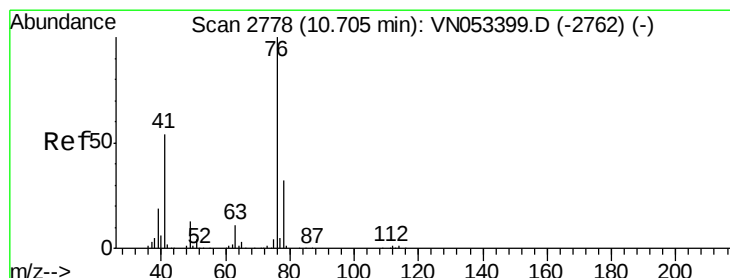
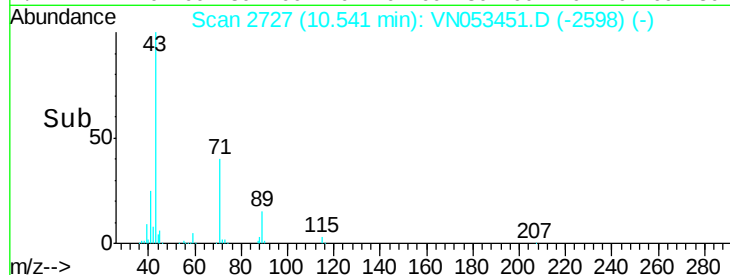
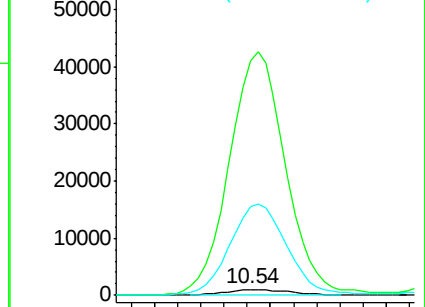
39 1417.6 23.3 34.9#



Abundance Ion 69.00 (68.70 to 69.70): VN053399.D (-2677) (-)

Ion 41.00 (40.70 to 41.70): VN053399.D (-2677) (-)

Ion 39.00 (38.70 to 39.70): VN053399.D (-2677) (-)



#57

1,3-Dichloropropane

Concen: 1.463 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN053451.D

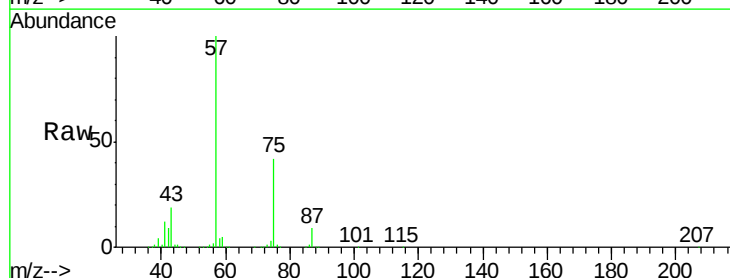
Acq: 17 Jan 2019 22:40

Tgt Ion: 76 Resp: 21393

Ion Ratio Lower Upper

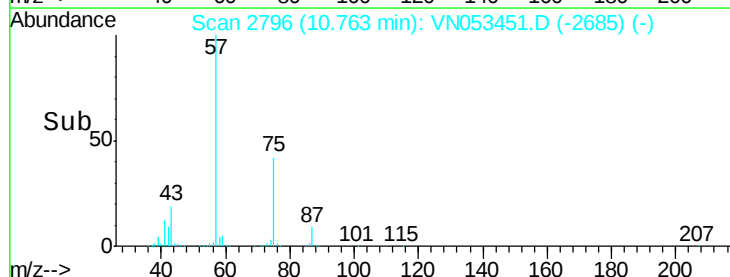
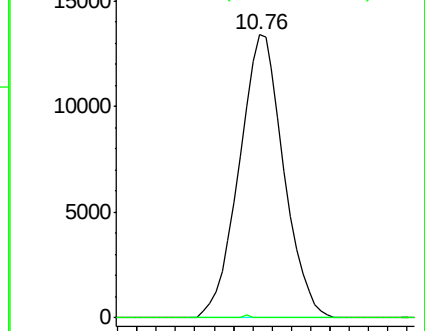
76 100

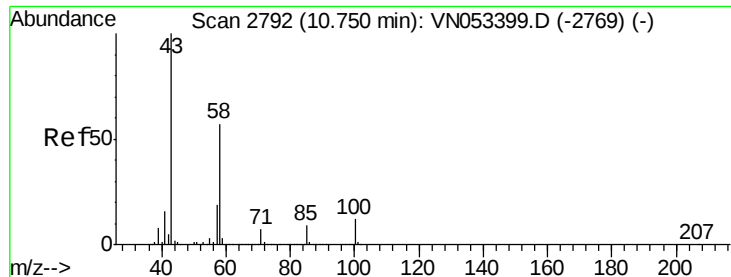
78 0.1 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN053399.D (-2762) (-)

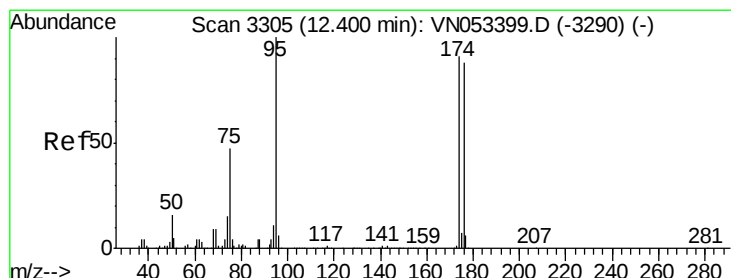
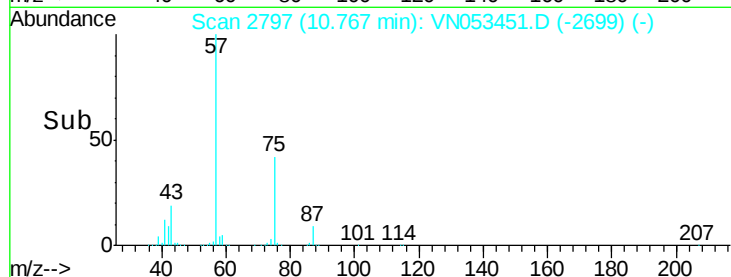
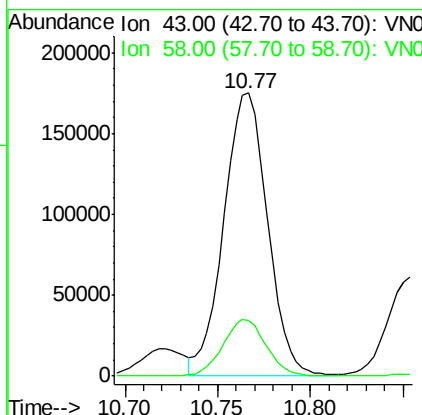
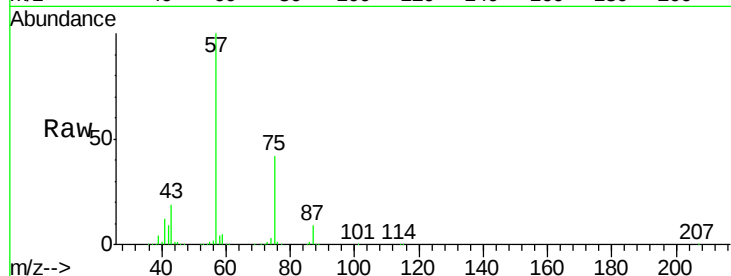
Ion 77.90 (77.60 to 78.60): VN053399.D (-2762) (-)





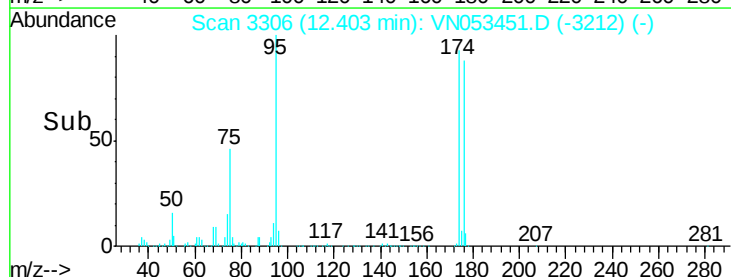
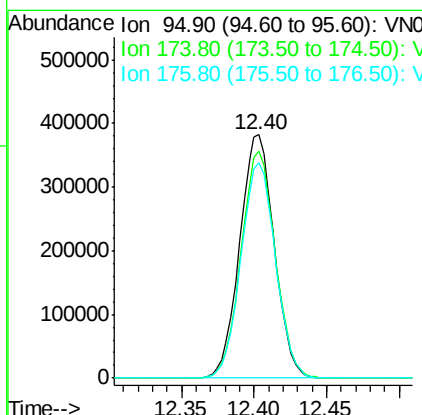
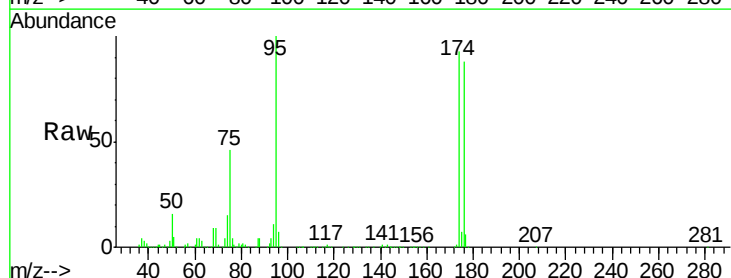
#59
2-Hexanone
Concen: 55.237 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.02 min
Lab File: VN053451.D
Acq: 17 Jan 2019 22:40

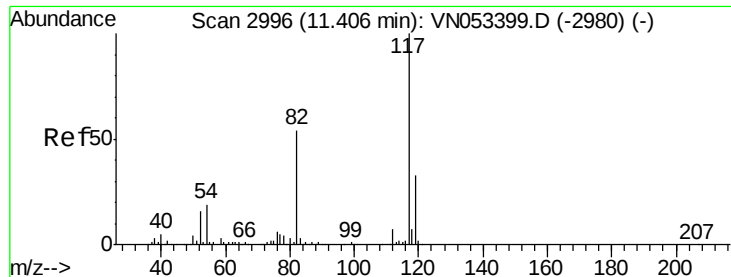
Tot Ion: 43 Resp: 284551
Ion Ratio Lower Upper
43 100
58 20.0 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053451.D
Acq: 17 Jan 2019 22:40

Tgt Ion: 95 Resp: 632547
Ion Ratio Lower Upper
95 100
174 92.5 0.0 183.2
176 88.8 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: VN053451.D

Acq: 17 Jan 2019 22:40

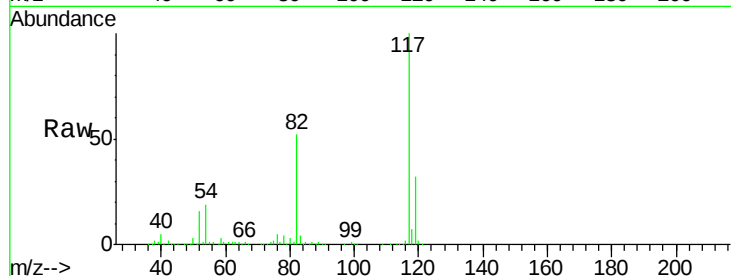
Tot Ion:117 Resp: 1391765

Ion Ratio Lower Upper

117 100

82 52.2 42.9 64.3

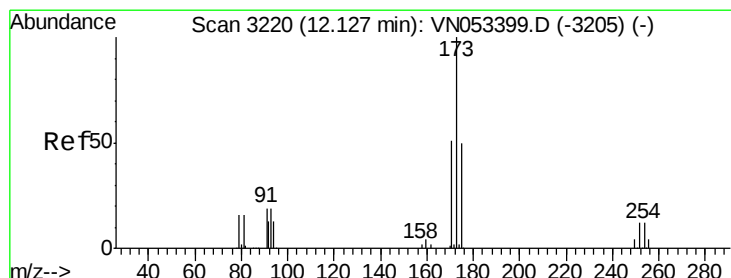
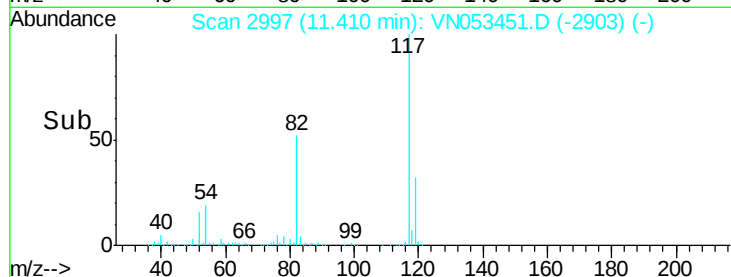
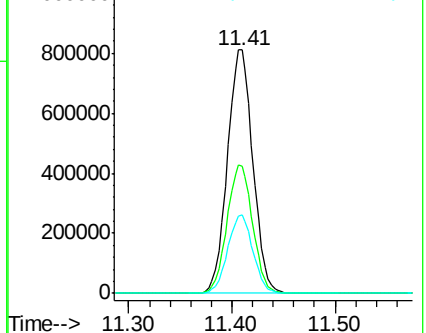
119 32.1 26.0 39.0



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: 0.568 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053451.D

Acq: 17 Jan 2019 22:40

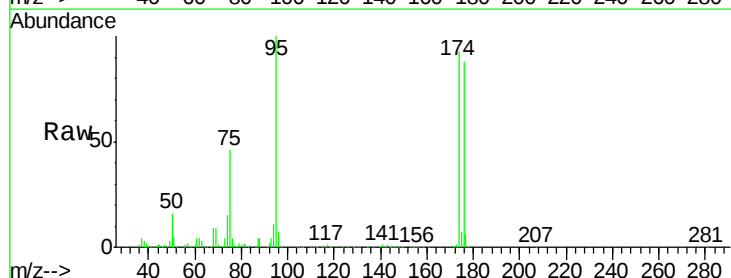
Tgt Ion:173 Resp: 4009

Ion Ratio Lower Upper

173 100

175 898.7 24.6 74.0#

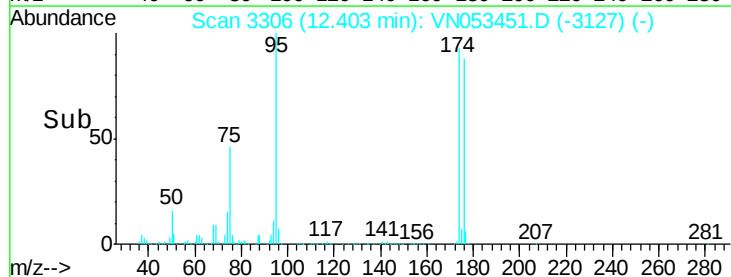
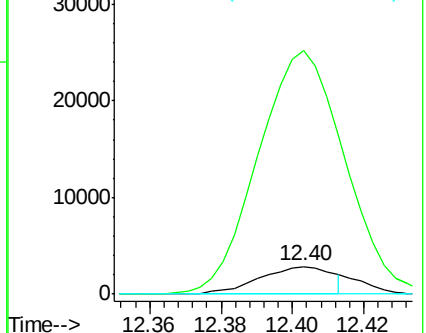
254 0.0 0.2 0.2#

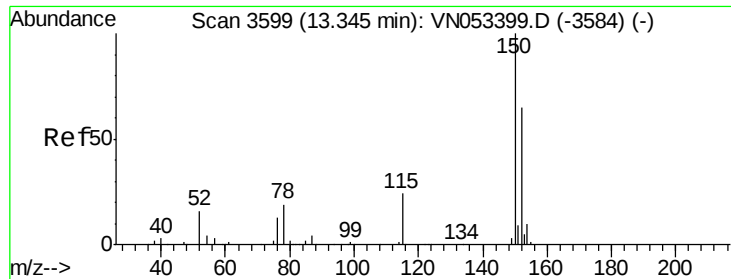


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V

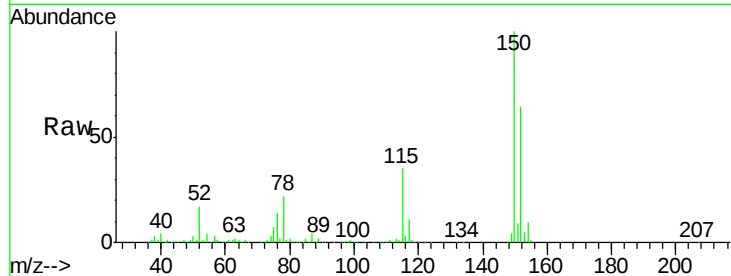




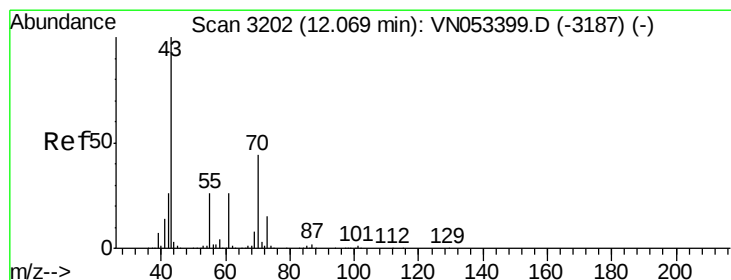
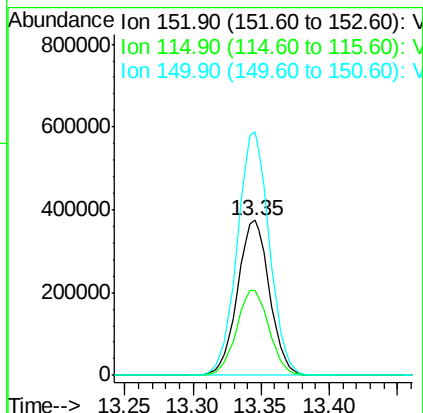
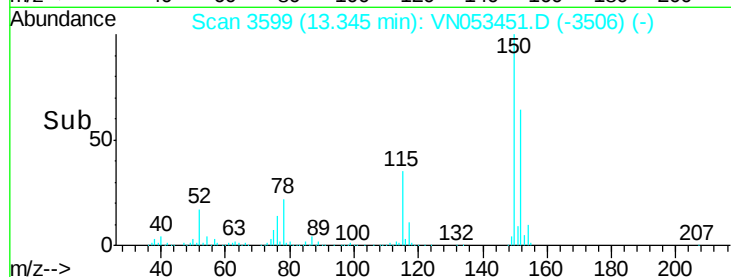
#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053451.D
Acq: 17 Jan 2019 22:40

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.7	27.8	83.4
150	157.2	0.0	349.0



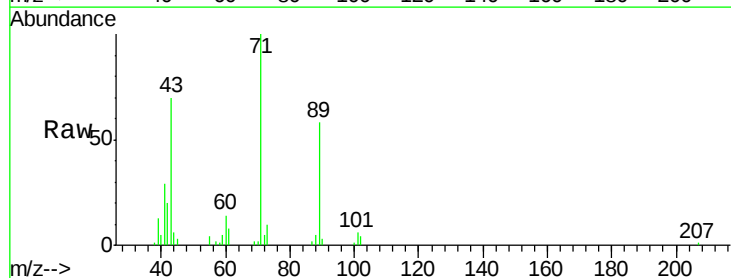
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



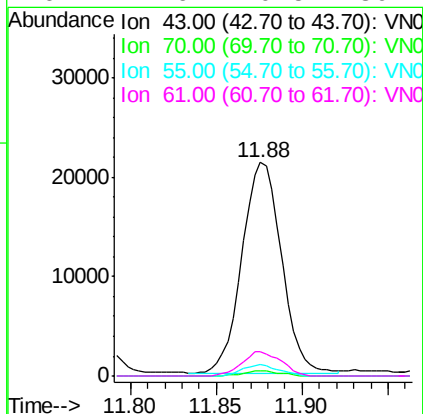
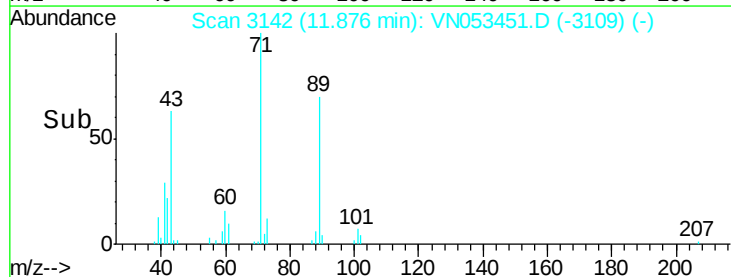
#74

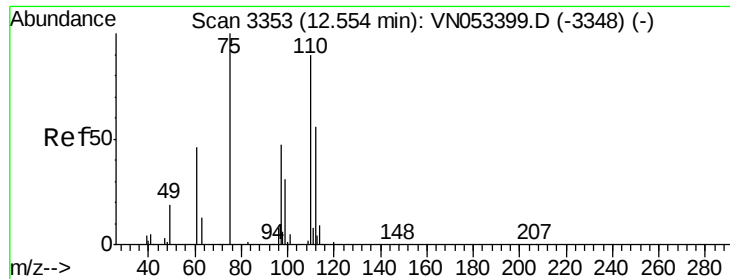
N-ethyl acetate
Concen: 2.843 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN053451.D
Acq: 17 Jan 2019 22:40

Tgt Ion	Ratio	Lower	Upper
43	100		
70	2.3	35.4	53.2#
55	5.0	20.9	31.3#
61	11.6	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

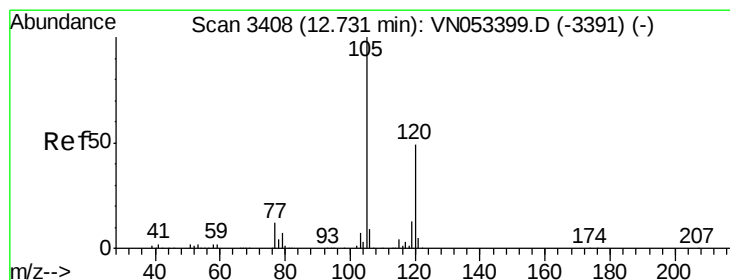
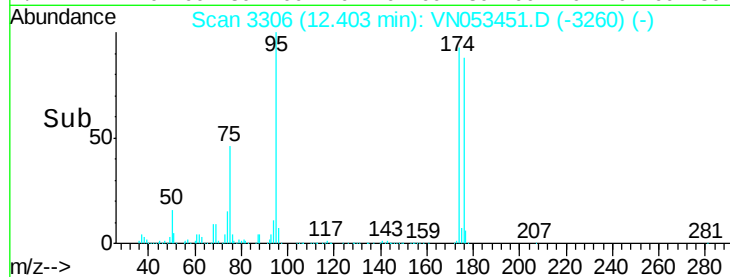
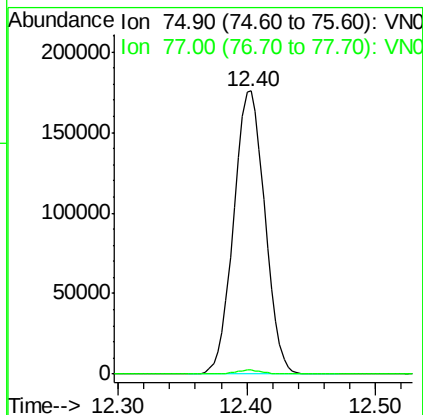
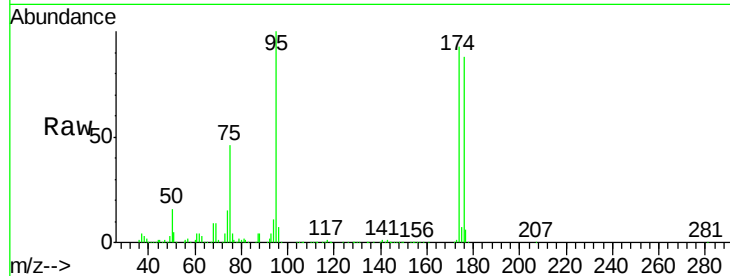




#76

1,2,3-Trichloropropane
Concen: 36.783 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN053451.D
Acq: 17 Jan 2019 22:40

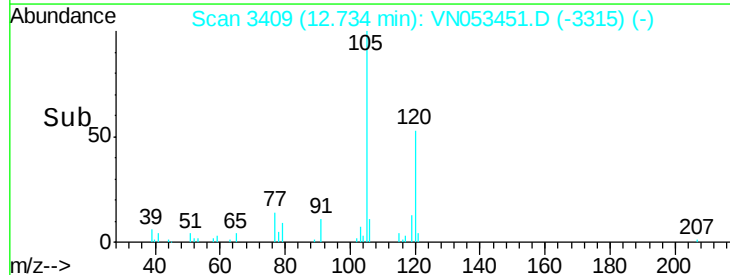
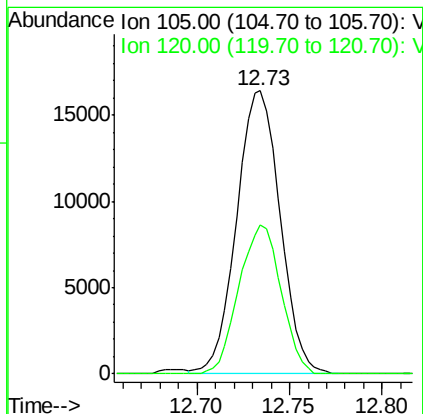
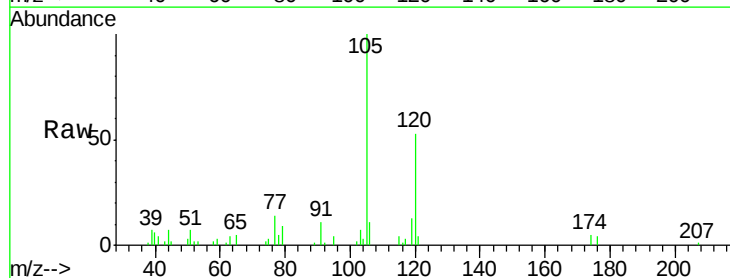
Tot Ion: 75 Resp: 295359
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#

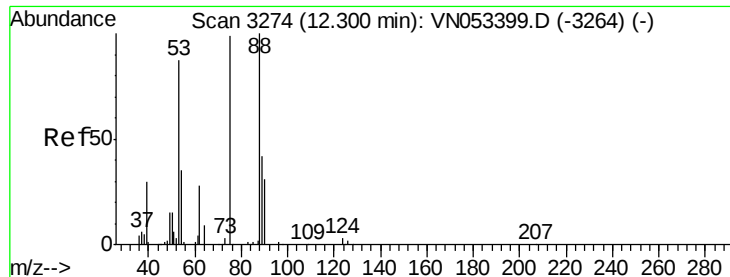


#80

1,3,5-Trimethylbenzene
Concen: 0.736 ug/l
RT: 12.73 min Scan# 3409
Delta R.T. 0.00 min
Lab File: VN053451.D
Acq: 17 Jan 2019 22:40

Tgt Ion: 105 Resp: 26737
Ion Ratio Lower Upper
105 100
120 50.8 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 90.905 ug/l

RT: 12.40 min Scan# 3306

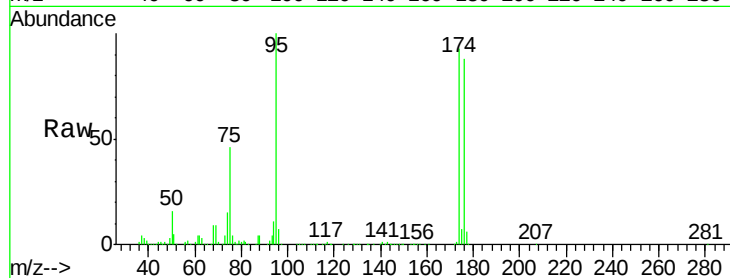
Delta R.T. 0.10 min

Lab File: VN053451.D

Acq: 17 Jan 2019 22:40

Tot Ion: 75 Resp: 295359

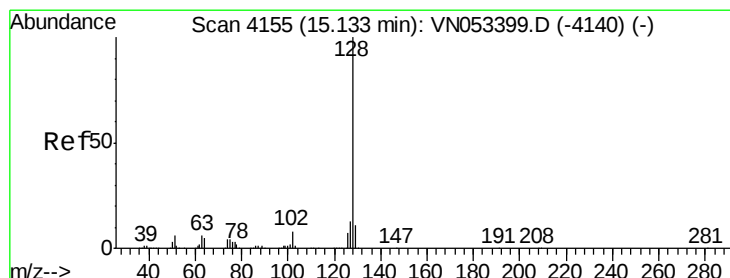
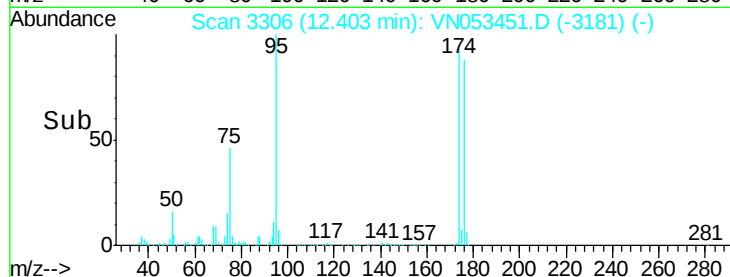
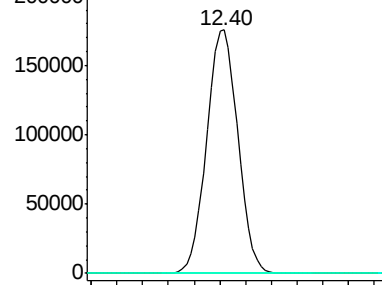
Ion	Ratio	Lower	Upper
75	100		
53	0.0	69.8	104.6#
89	0.0	35.6	53.4#



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: 3.950 ug/l

RT: 15.14 min Scan# 4158

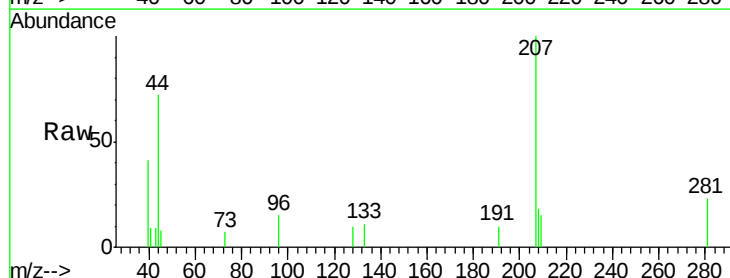
Delta R.T. 0.01 min

Lab File: VN053451.D

Acq: 17 Jan 2019 22:40

Tgt Ion: 128 Resp: 173

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) (-)

