

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020719\
 Data File : VN053661.D
 Acq On : 7 Feb 2019 17:40
 Operator : JC/SP
 Sample : PB116887ZHE#12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 28

Quant Time: Feb 09 00:30:40 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	739449	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1238286	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1137316	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	475022	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	401180	54.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.16%	
35) Dibromofluoromethane	7.59	113	395143	50.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.00%	
50) Toluene-d8	10.09	98	1492753	50.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.62%	
62) 4-Bromofluorobenzene	12.40	95	493793	50.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.80%	

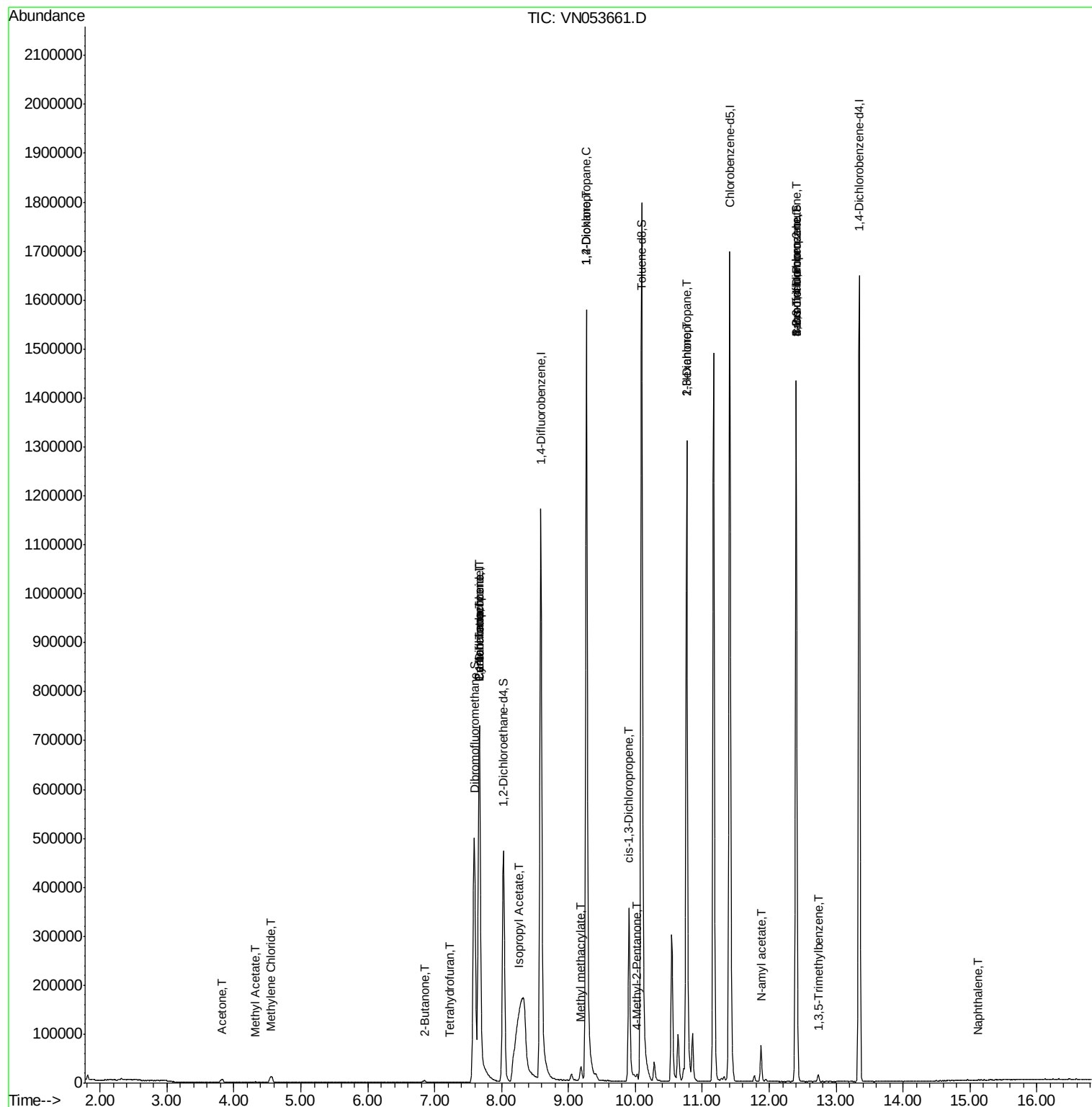
Target Compounds

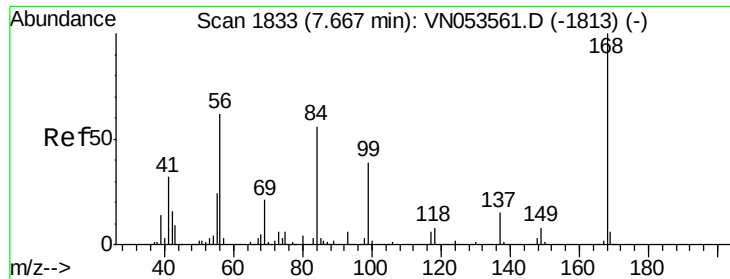
						Qvalue
16) Acetone	3.82	43	13117	6.894	ug/l	97
18) Methyl Acetate	4.32	43	1582	0.281	ug/l	96
20) Methylene Chloride	4.56	84	10241	1.283	ug/l	98
25) 2-Butanone	6.84	43	5369	1.978	ug/l	95
29) Tetrahydrofuran	7.23	42	1320	0.757	ug/l #	52
31) Cyclohexane	7.66	56	10541	0.673	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	43154	3.866	ug/l #	50
38) Carbon Tetrachloride	7.67	117	61432	5.463	ug/l #	16
43) Isopropyl Acetate	8.25	43	196129	16.290	ug/l #	52
45) 1,2-Dichloropropane	9.27	63	2244	0.255	ug/l #	43
48) Methyl methacrylate	9.18	41	10043	1.748	ug/l #	12
49) 1,4-Dioxane	9.26	88	60	39.790	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	9393	1.588	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	77193	5.895	ug/l #	61
57) 1,3-Dichloropropane	10.77	76	15353	1.220	ug/l #	43
59) 2-Hexanone	10.76	43	199716	49.725	ug/l #	50
71) Bromoform	12.40	173	3164	0.547	ug/l #	1
74) N-amyl acetate	11.88	43	22125	2.755	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	230629	37.800	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7255	0.262	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.40	75	230629	106.289	ug/l #	15
95) Naphthalene	15.13	128	62	1.739	ug/l #	69

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

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QLast Update : Fri Feb 01 09:11:52 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053661.D

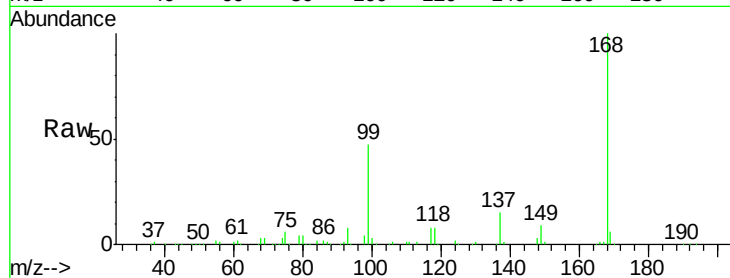
Acq: 7 Feb 2019 17:40

Tot Ion:168 Resp: 739449

Ion Ratio Lower Upper

168 100

99 47.3 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): VN053561.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN053561.D (-1813) (-)

7.67

300000

250000

200000

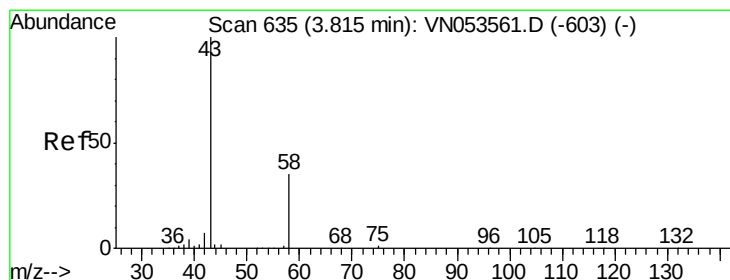
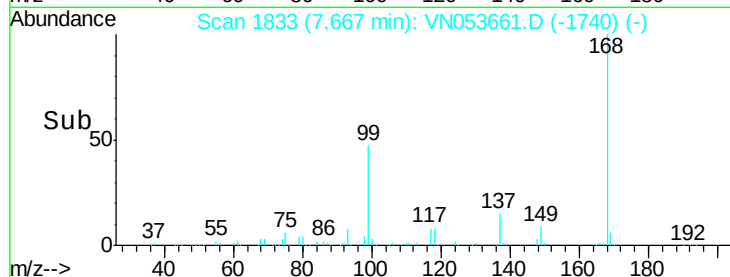
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#16

Acetone

Concen: 6.894 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053661.D

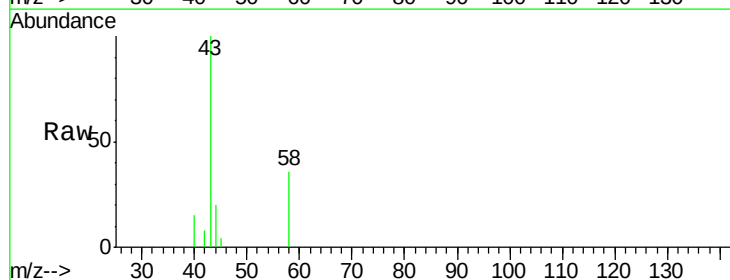
Acq: 7 Feb 2019 17:40

Tgt Ion: 43 Resp: 13117

Ion Ratio Lower Upper

43 100

58 35.8 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN053561.D (-603) (-)

Ion 58.00 (57.70 to 58.70): VN053561.D (-603) (-)

3.82

5000

4000

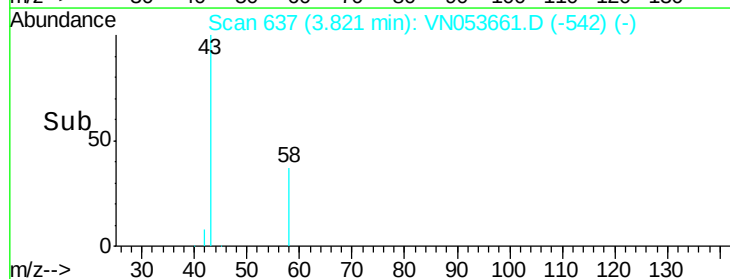
3000

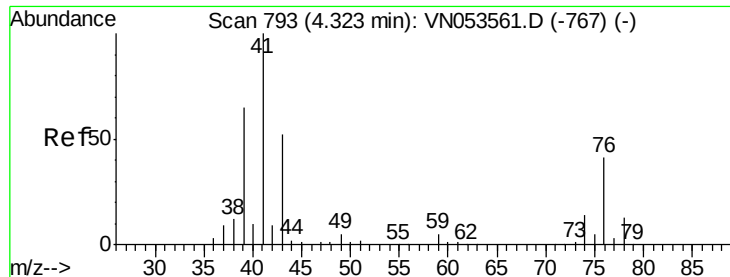
2000

1000

0

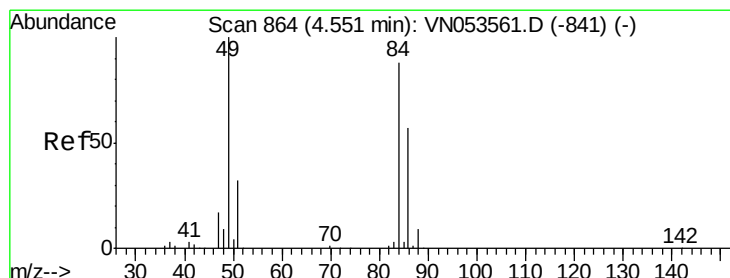
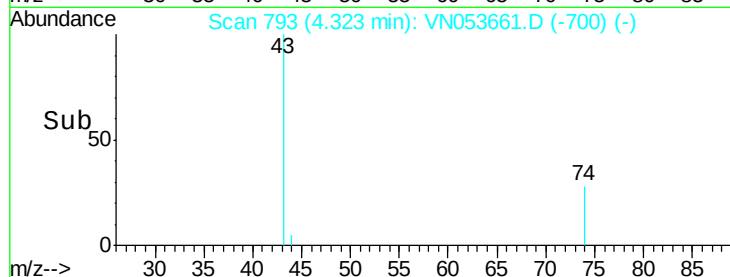
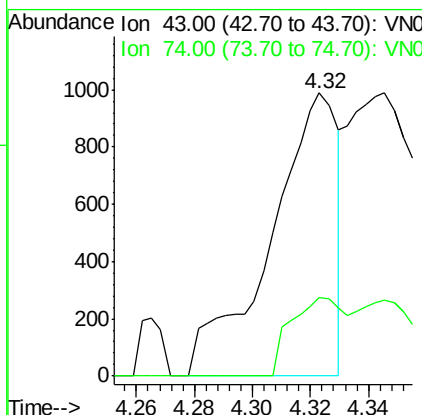
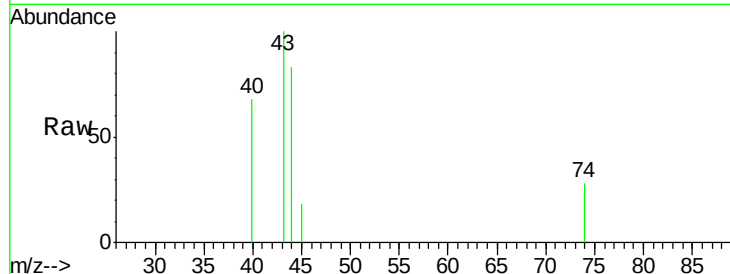
Time--> 3.75 3.80 3.85 3.90





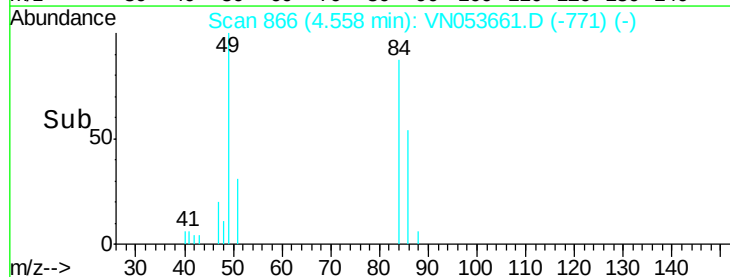
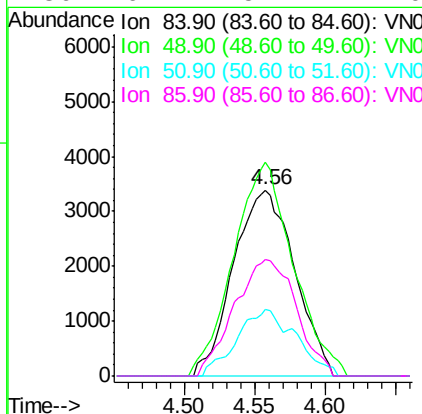
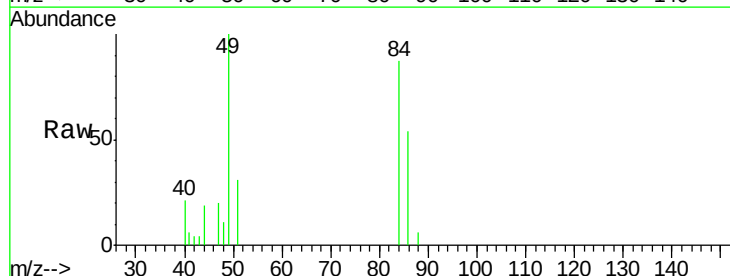
#18
Methyl Acetate
Concen: 0.281 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN053661.D
Acq: 7 Feb 2019 17:40

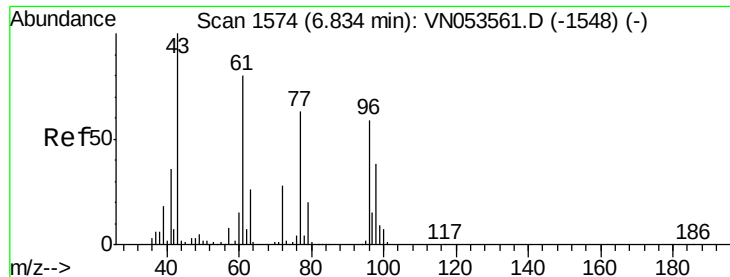
Tot Ion: 43 Resp: 1582
Ion Ratio Lower Upper
43 100
74 22.2 19.4 29.2



#20
Methylene Chloride
Concen: 1.283 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN053661.D
Acq: 7 Feb 2019 17:40

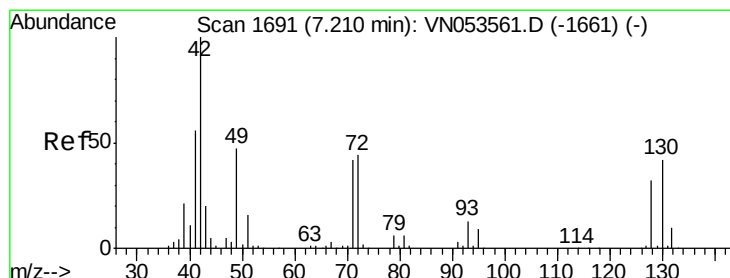
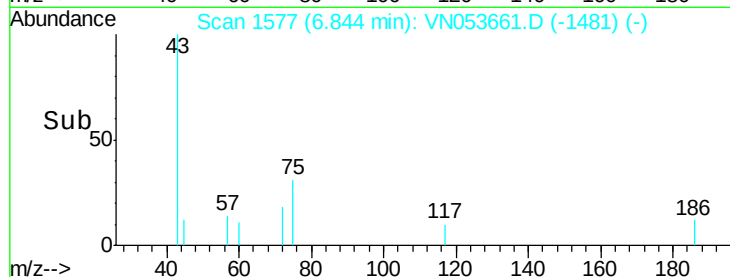
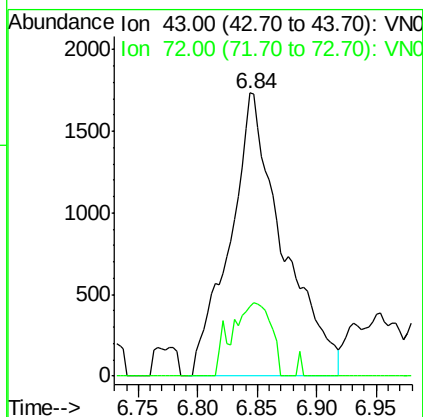
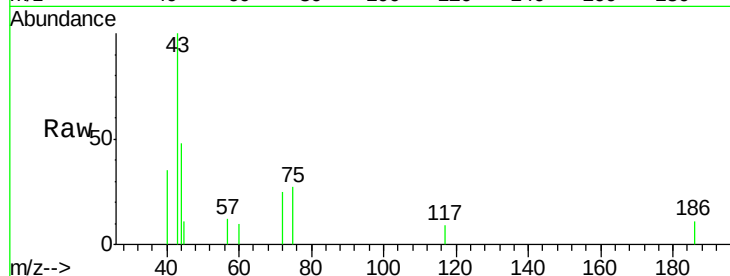
Tgt Ion: 84 Resp: 10241
Ion Ratio Lower Upper
84 100
49 114.8 94.3 141.5
51 36.0 29.4 44.2
86 62.4 51.4 77.0





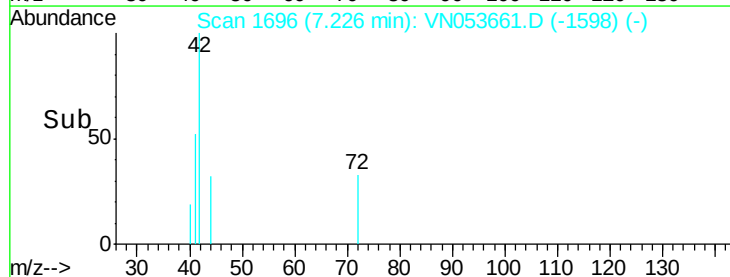
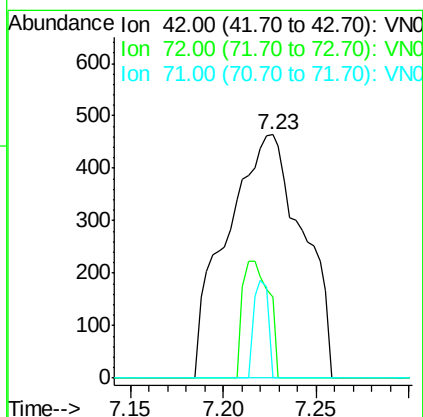
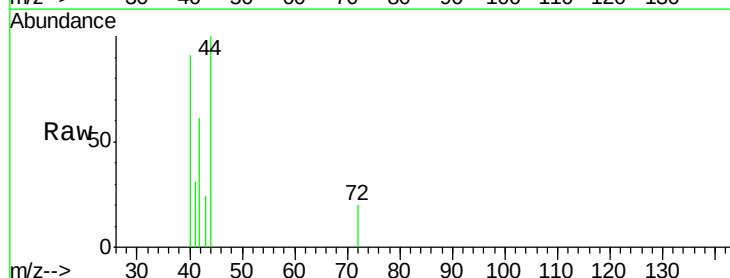
#25
2-Butanone
Concen: 1.978 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN053661.D
Acq: 7 Feb 2019 17:40

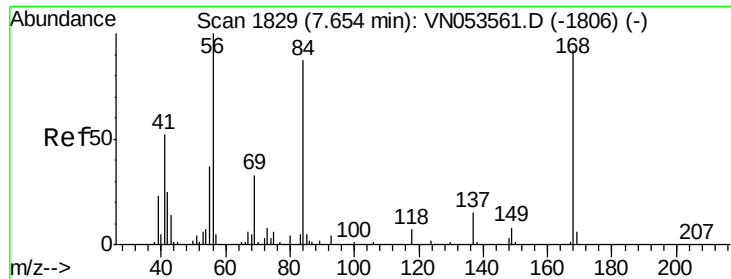
Tot Ion: 43 Resp: 5369
Ion Ratio Lower Upper
43 100
72 24.8 22.0 33.0



#29
Tetrahydrofuran
Concen: 0.757 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.02 min
Lab File: VN053661.D
Acq: 7 Feb 2019 17:40

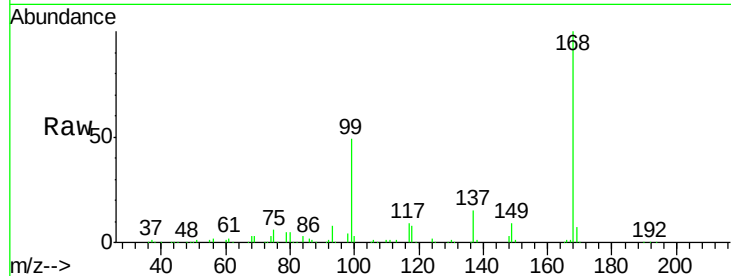
Tgt Ion: 42 Resp: 1320
Ion Ratio Lower Upper
42 100
72 16.7 35.2 52.8#
71 7.6 33.0 49.4#



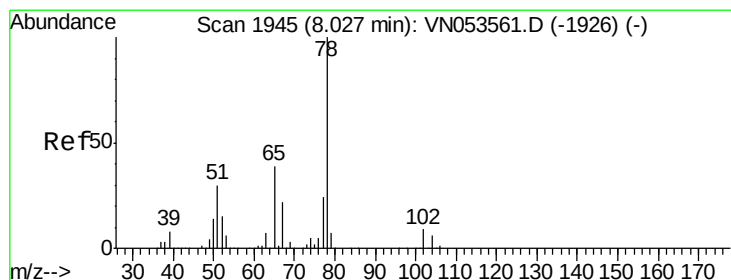
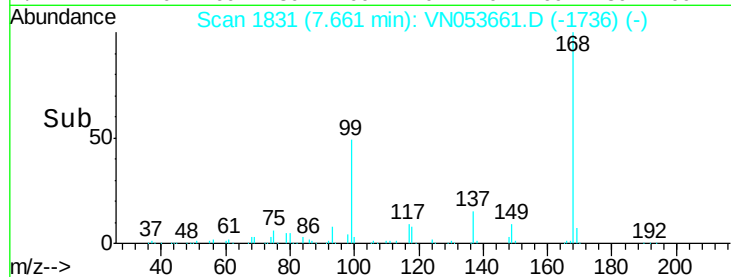
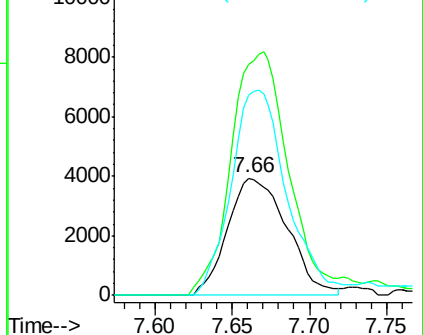


#31
Cyclohexane
Concen: 0.673 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN053661.D
Acq: 7 Feb 2019 17:40

Tot Ion: 56 Resp: 10541
Ion Ratio Lower Upper
56 100
69 196.5 26.4 39.6#
84 170.6 67.9 101.9#

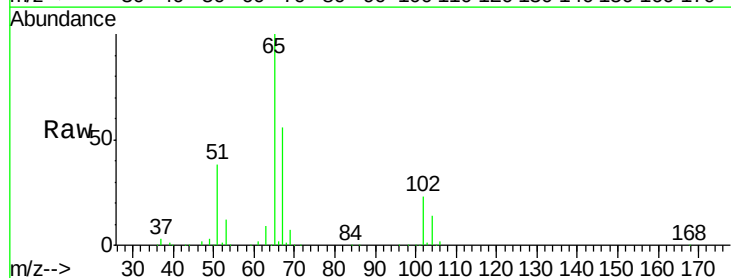


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

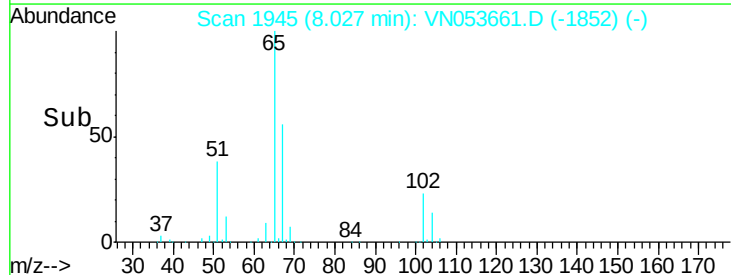
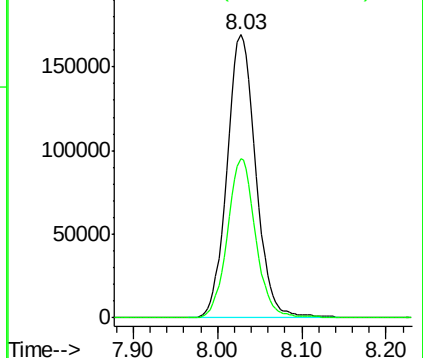


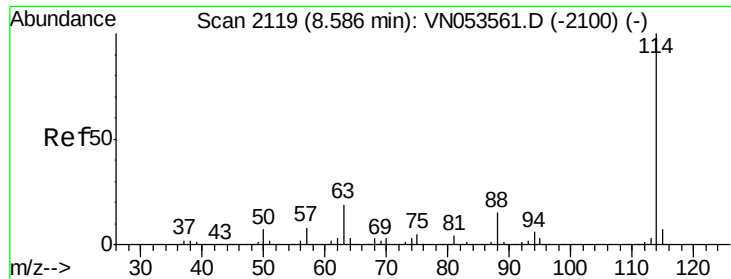
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN053661.D
Acq: 7 Feb 2019 17:40

Tgt Ion: 65 Resp: 401180
Ion Ratio Lower Upper
65 100
67 55.3 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: VN053661.D

Acq: 7 Feb 2019 17:40

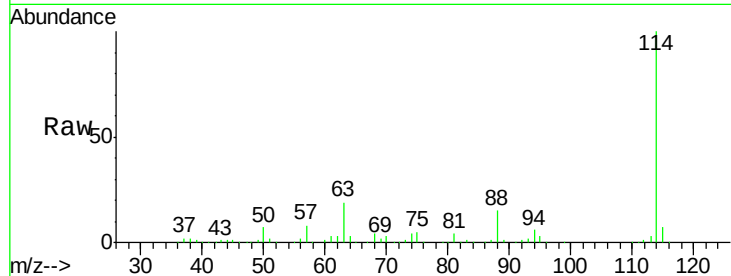
Tot Ion:114 Resp: 1238286

Ion Ratio Lower Upper

114 100

63 18.9 0.0 38.6

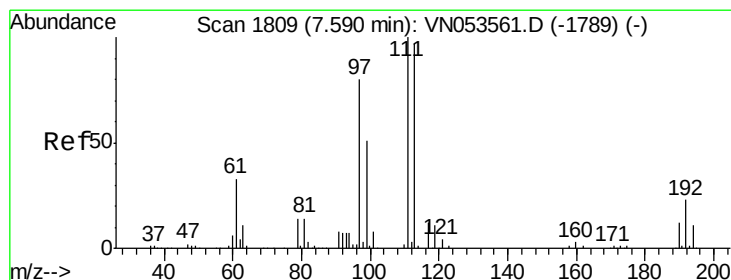
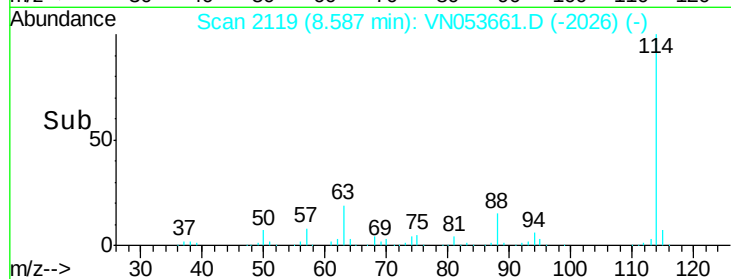
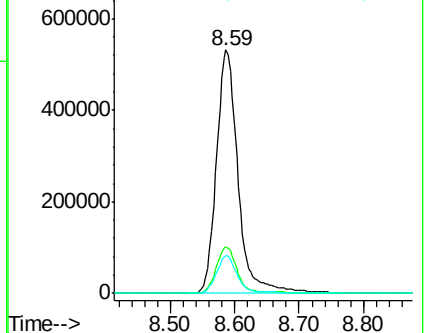
88 15.5 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN053661.D

Acq: 7 Feb 2019 17:40

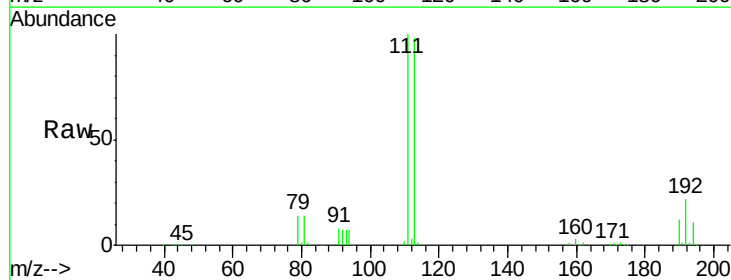
Tgt Ion:113 Resp: 395143

Ion Ratio Lower Upper

113 100

111 102.4 81.1 121.7

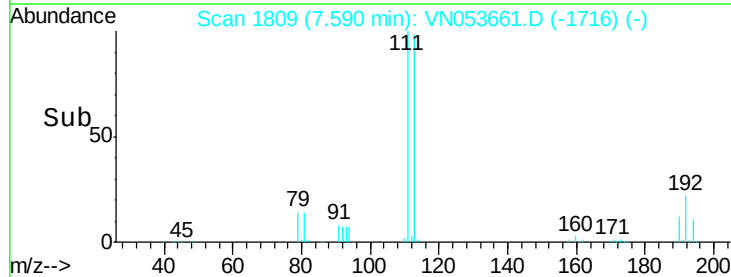
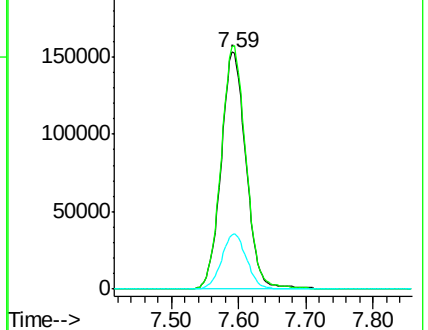
192 23.3 18.2 27.2

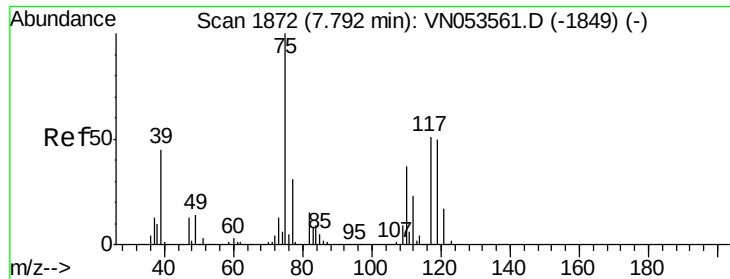


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.866 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053661.D

Acq: 7 Feb 2019 17:40

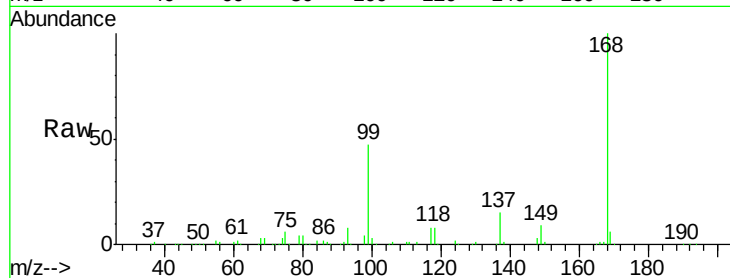
Tot Ion: 75 Resp: 43154

Ion Ratio Lower Upper

75 100

110 9.7 18.1 54.3#

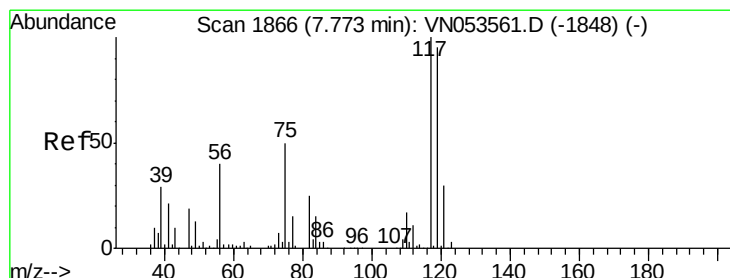
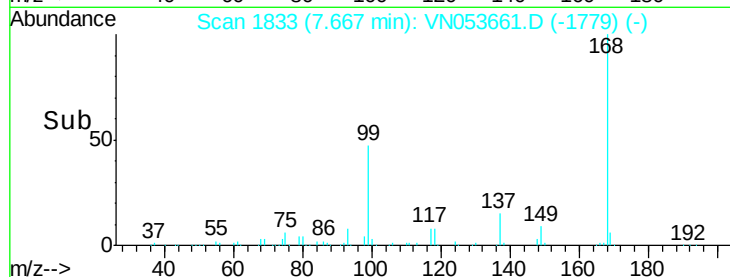
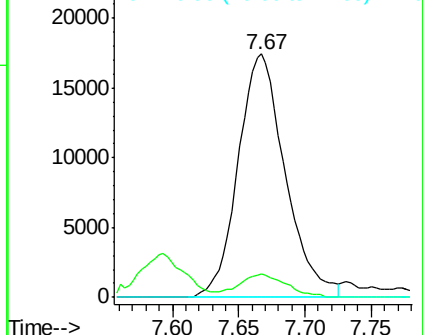
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN053561.D (-1849) (-)

Ion 109.90 (109.60 to 110.60): VN053561.D (-1849) (-)

Ion 76.90 (76.60 to 77.60): VN053561.D (-1849) (-)



#38

Carbon Tetrachloride

Concen: 5.463 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053661.D

Acq: 7 Feb 2019 17:40

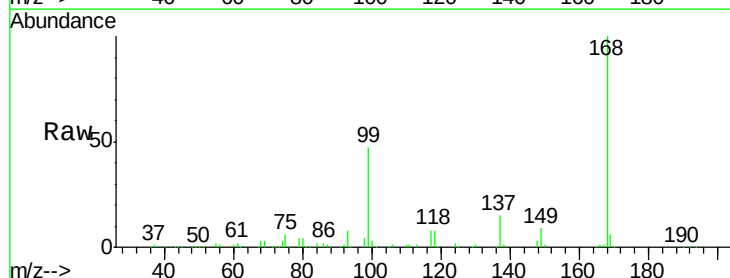
Tgt Ion: 117 Resp: 61432

Ion Ratio Lower Upper

117 100

119 5.3 77.2 115.8#

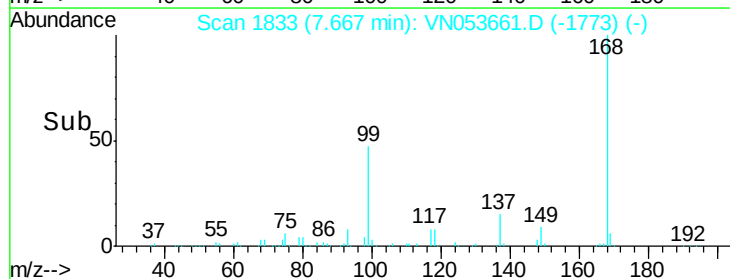
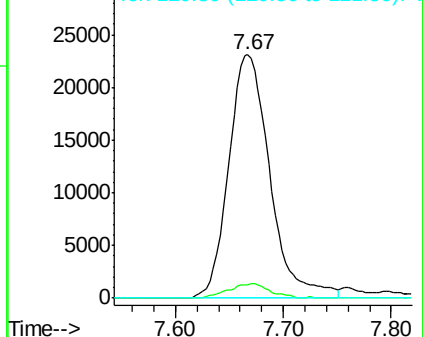
121 0.0 24.6 37.0#

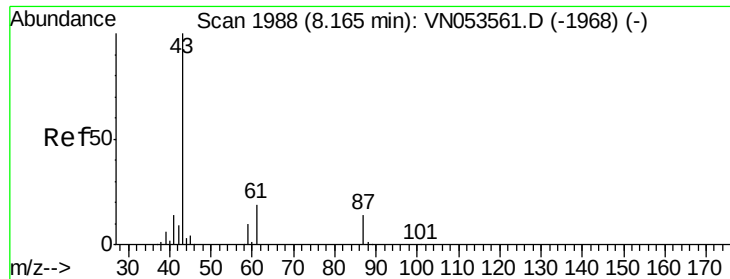


Abundance Ion 116.80 (116.50 to 117.50): VN053561.D (-1848) (-)

Ion 118.80 (118.50 to 119.50): VN053561.D (-1848) (-)

Ion 120.80 (120.50 to 121.50): VN053561.D (-1848) (-)





#43

Isopropyl Acetate

Concen: 16.290 ug/l

RT: 8.25 min Scan# 2015

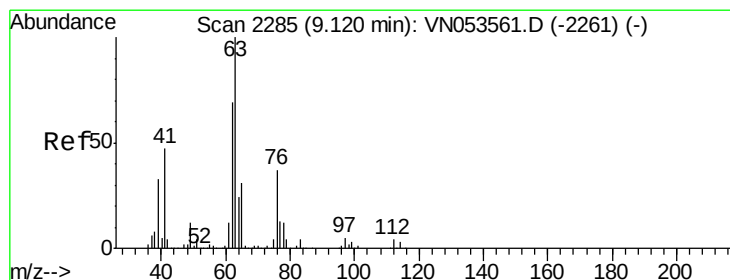
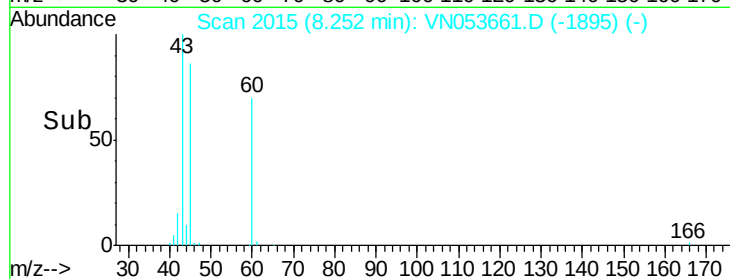
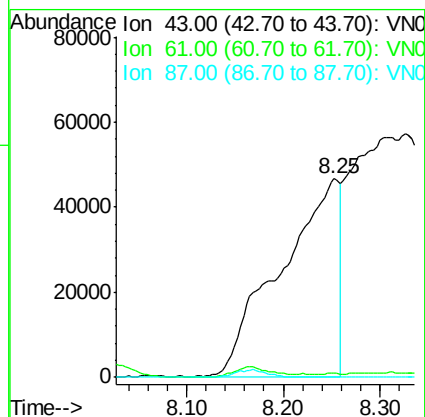
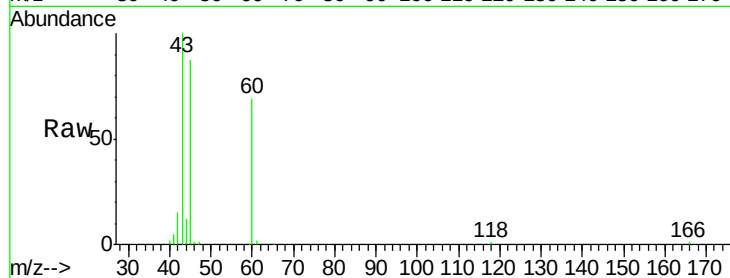
Delta R.T. 0.09 min

Lab File: VN053661.D

Acq: 7 Feb 2019 17:40

Tot Ion: 43 Resp: 196129

Ion	Ratio	Lower	Upper
43	100		
61	0.1	23.9	35.9#
87	0.0	11.0	16.6#



#45

1,2-Dichloropropane

Concen: 0.255 ug/l

RT: 9.27 min Scan# 2331

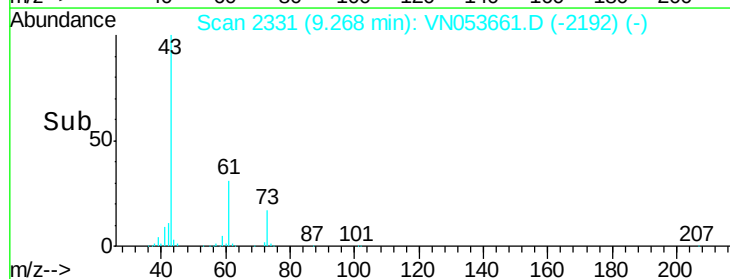
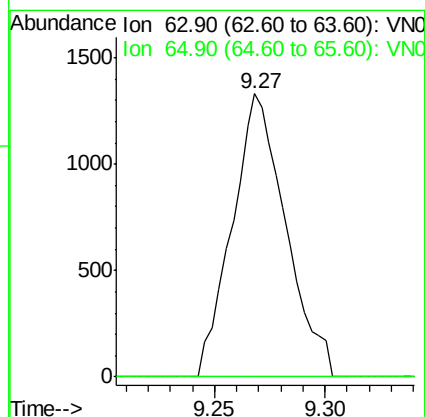
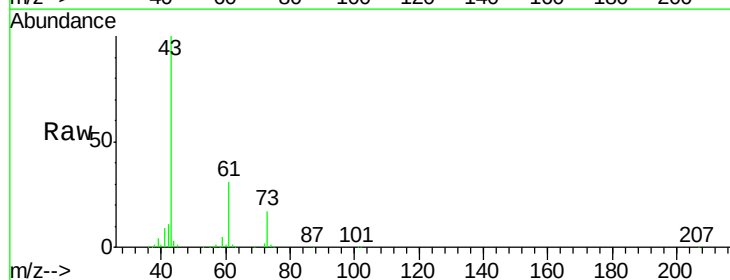
Delta R.T. 0.15 min

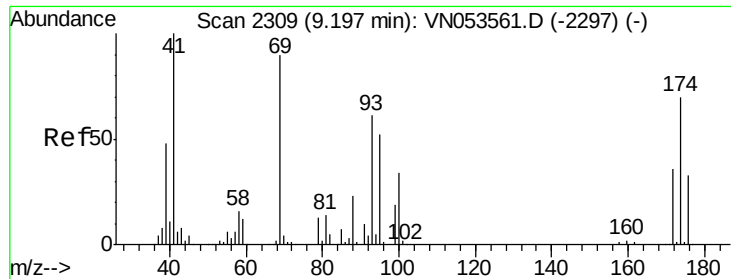
Lab File: VN053661.D

Acq: 7 Feb 2019 17:40

Tgt Ion: 63 Resp: 2244

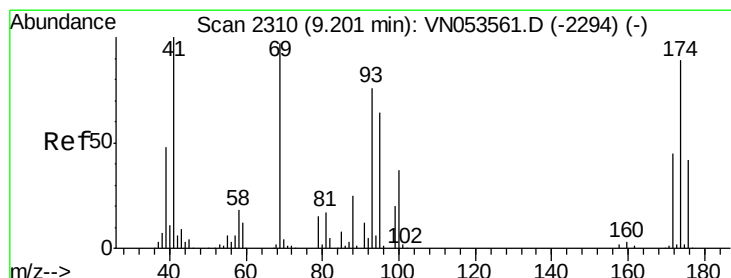
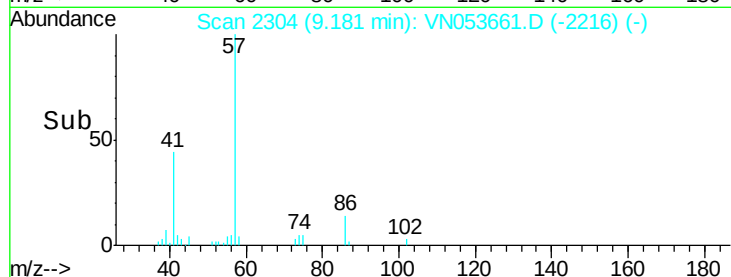
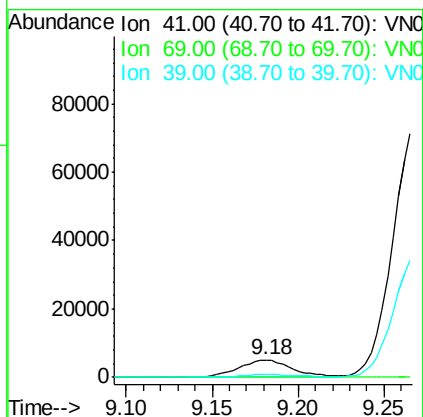
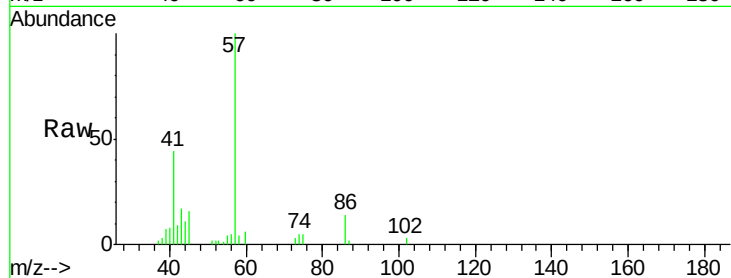
Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.0	37.4#





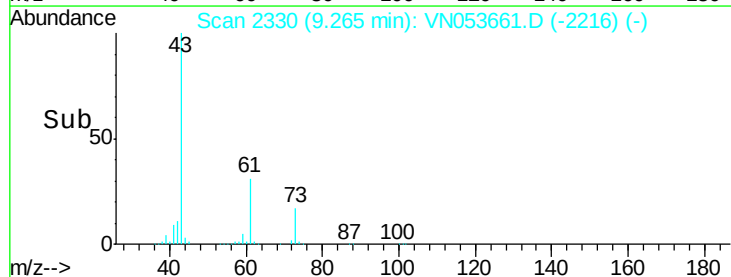
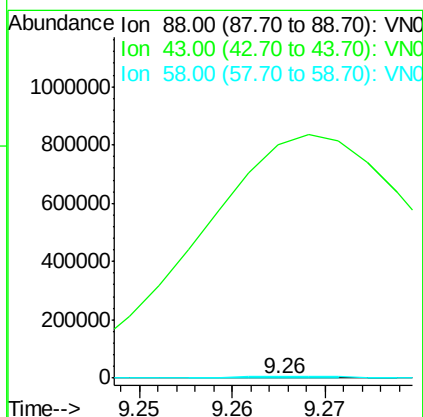
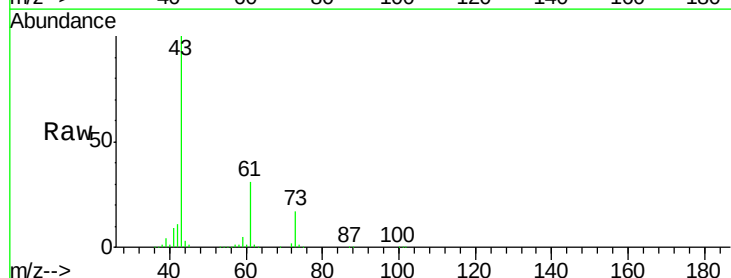
#48
Methvl methacrylate
Concen: 1.748 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN053661.D
Acq: 7 Feb 2019 17:40

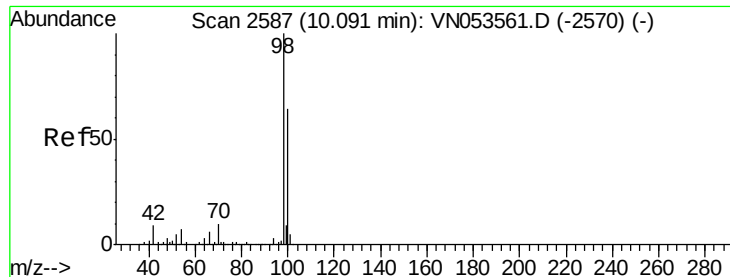
Tot Ion: 41 Resp: 10043
Ion Ratio Lower Upper
41 100
69 0.0 73.8 110.6#
39 0.0 40.0 60.0#



#49
1,4-Dioxane
Concen: 39.790 ug/l
RT: 9.26 min Scan# 2330
Delta R.T. 0.06 min
Lab File: VN053661.D
Acq: 7 Feb 2019 17:40

Tgt Ion: 88 Resp: 60
Ion Ratio Lower Upper
88 100
43 2823276.7 27.8 41.6#
58 15011.7 56.5 84.7#





#50

Toluene-d8

Concen: 39.790 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053661.D

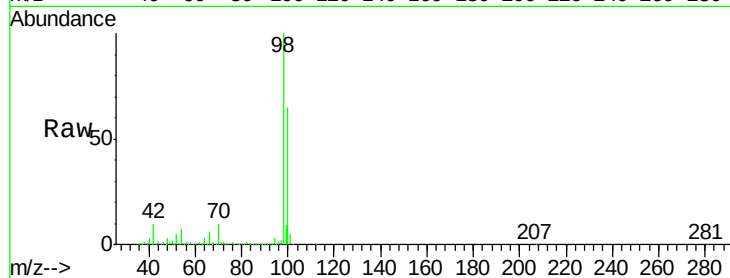
Acq: 7 Feb 2019 17:40

Tot Ion: 98 Resp: 1492753

Ion Ratio Lower Upper

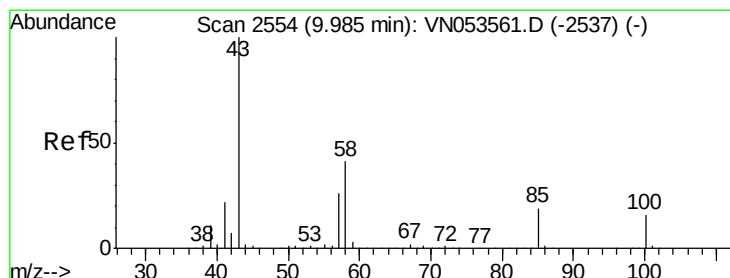
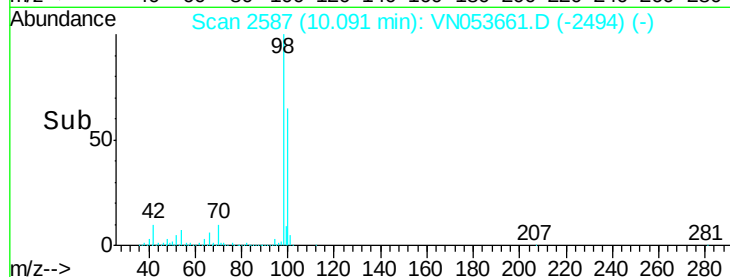
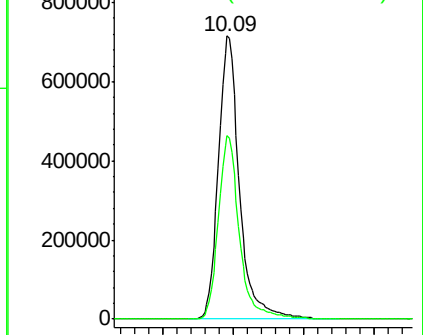
98 100

100 64.7 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 1.588 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053661.D

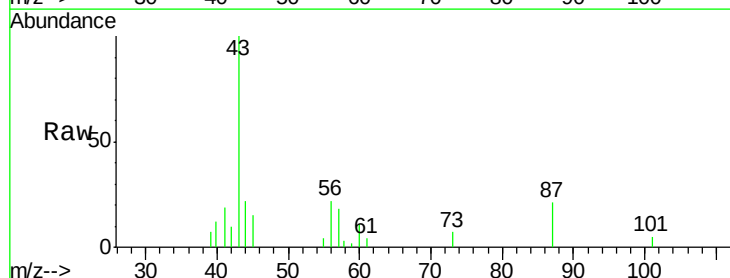
Acq: 7 Feb 2019 17:40

Tgt Ion: 43 Resp: 9393

Ion Ratio Lower Upper

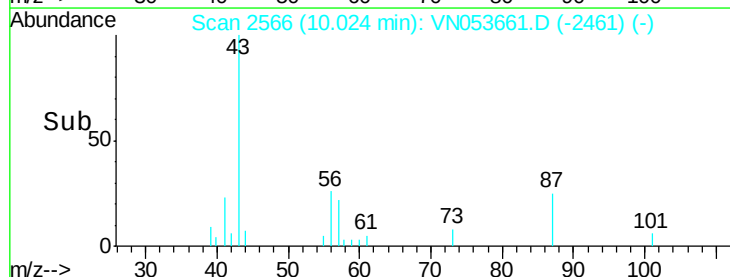
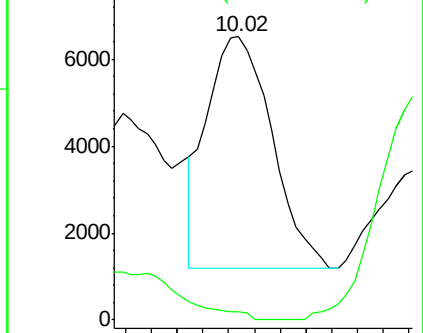
43 100

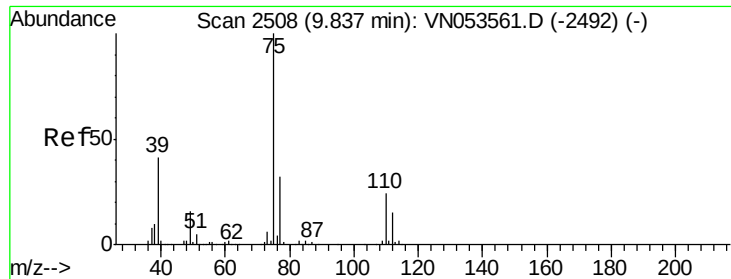
58 0.0 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#54

cis-1,3-Dichloropropene

Concen: 5.895 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053661.D

Acq: 7 Feb 2019 17:40

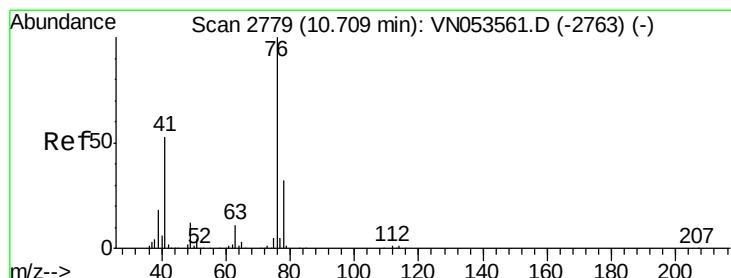
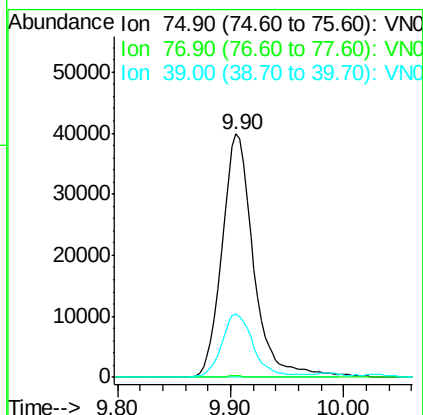
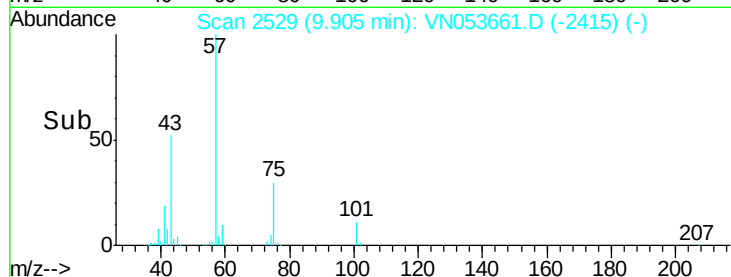
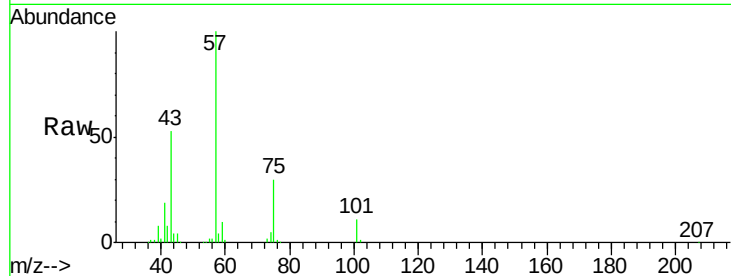
Tot Ion: 75 Resp: 77193

Ion Ratio Lower Upper

75 100

77 0.6 25.8 38.6#

39 26.1 33.4 50.0#



#57

1,3-Dichloropropane

Concen: 1.220 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN053661.D

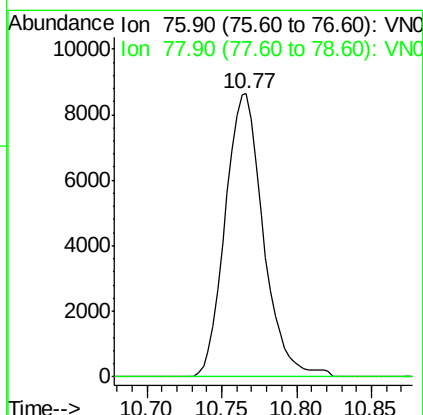
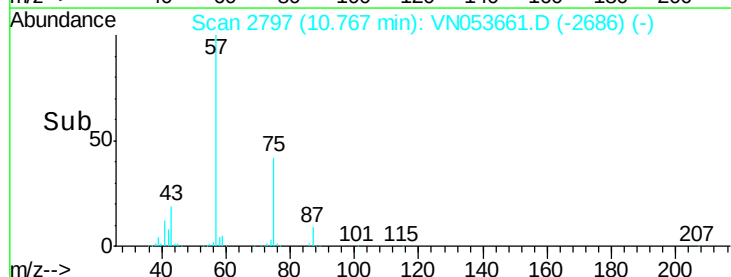
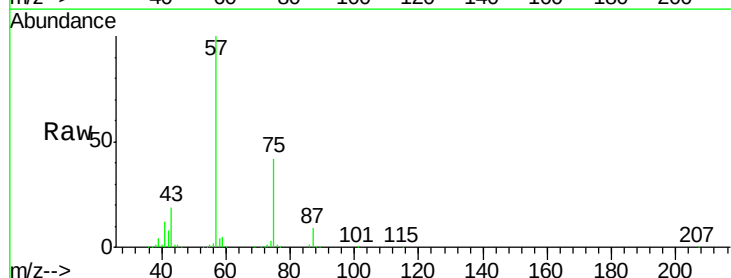
Acq: 7 Feb 2019 17:40

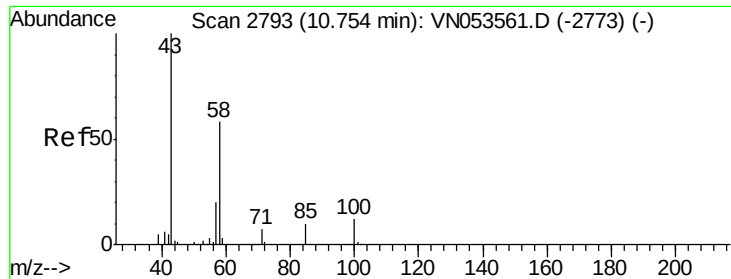
Tgt Ion: 76 Resp: 15353

Ion Ratio Lower Upper

76 100

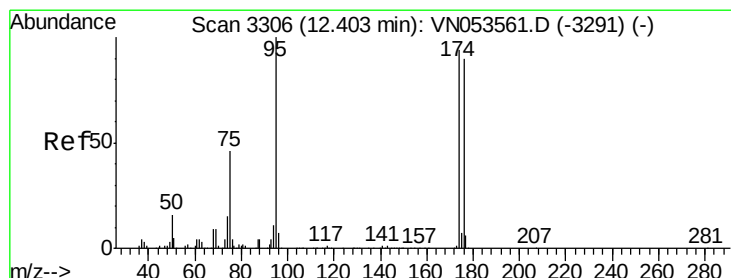
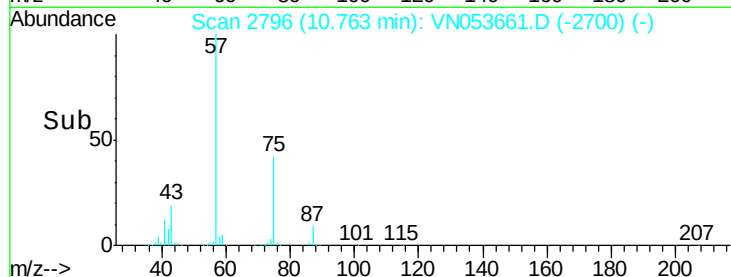
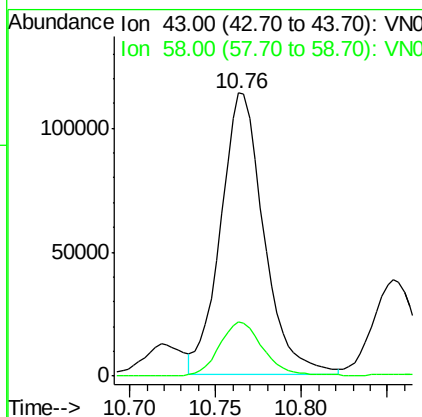
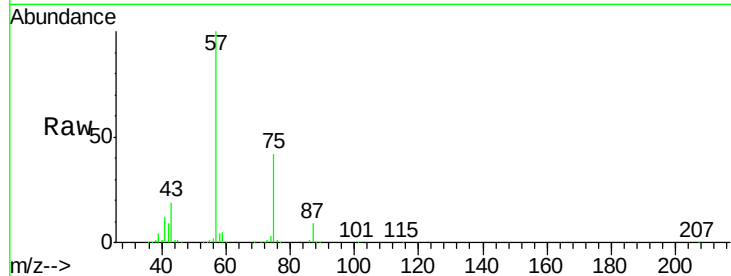
78 0.0 25.6 38.4#





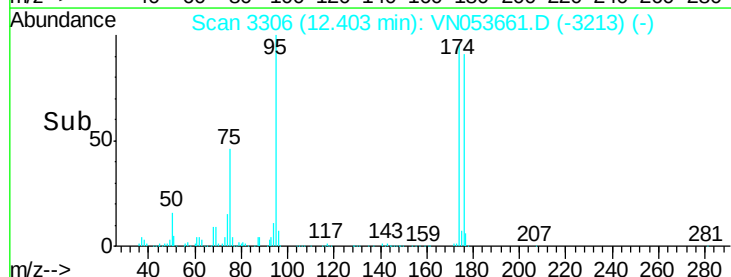
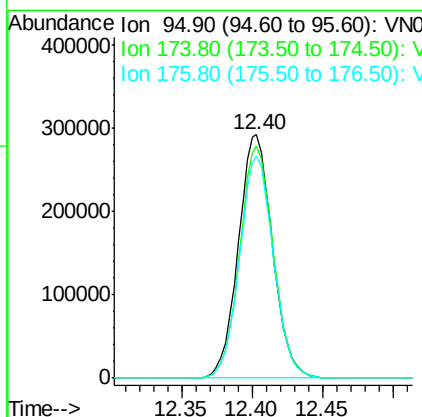
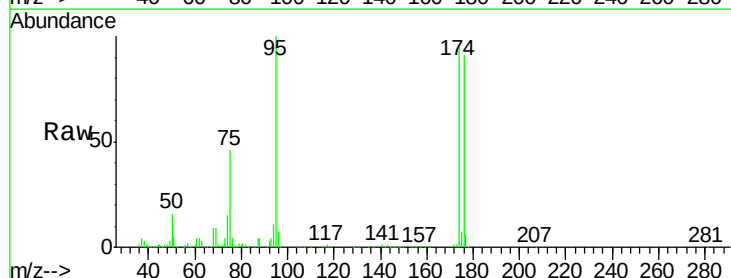
#59
2-Hexanone
Concen: 49.725 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053661.D
Acq: 7 Feb 2019 17:40

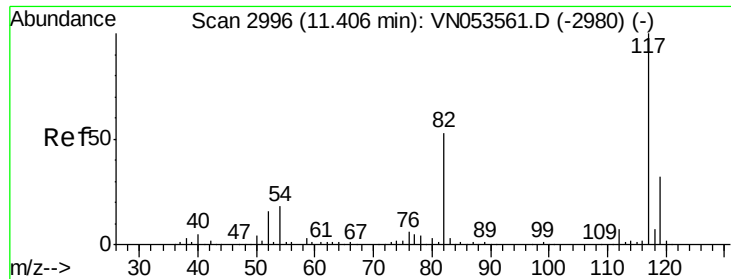
Tot Ion: 43 Resp: 199716
Ion Ratio Lower Upper
43 100
58 20.0 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053661.D
Acq: 7 Feb 2019 17:40

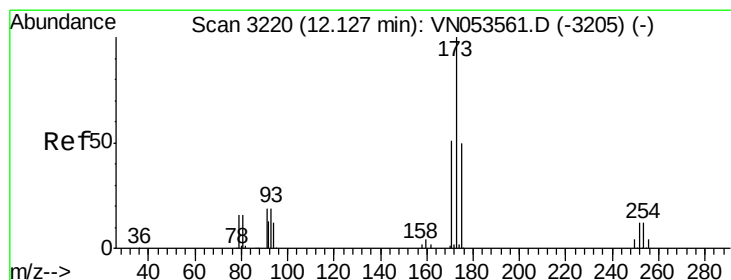
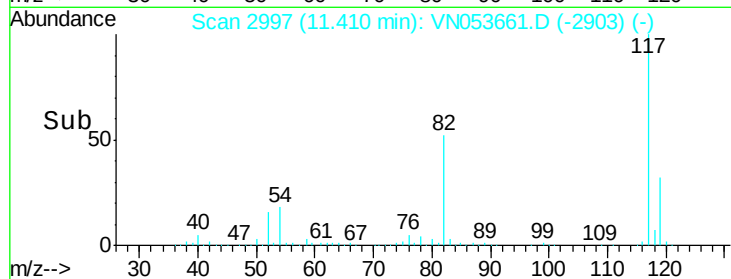
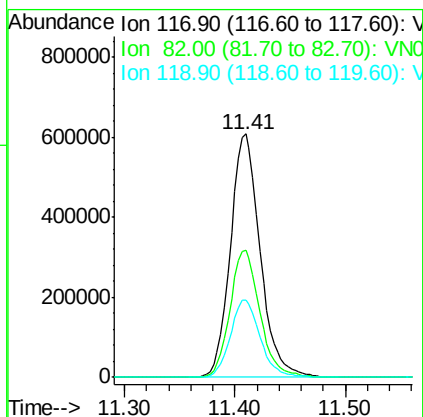
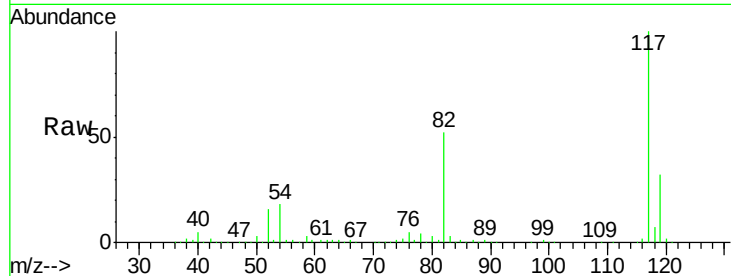
Tgt Ion: 95 Resp: 493793
Ion Ratio Lower Upper
95 100
174 94.7 0.0 183.2
176 90.7 0.0 177.4





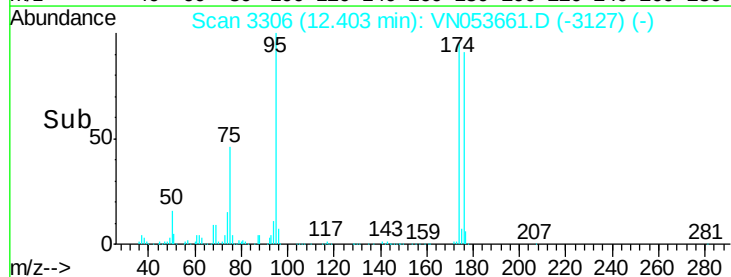
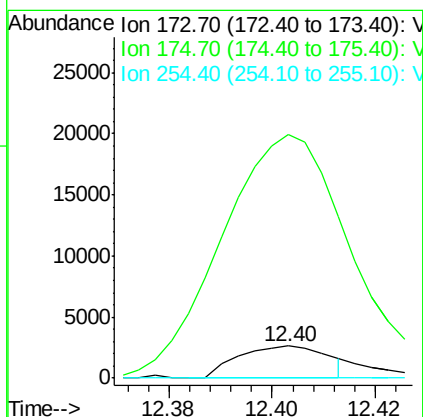
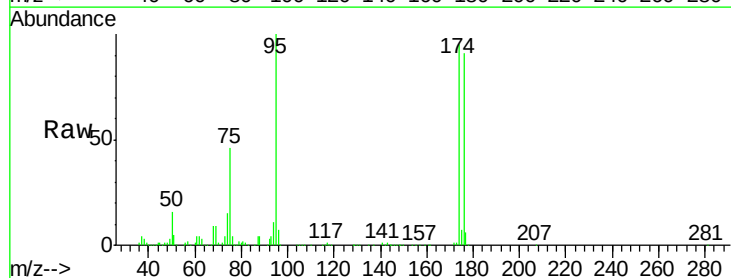
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053661.D
Acq: 7 Feb 2019 17:40

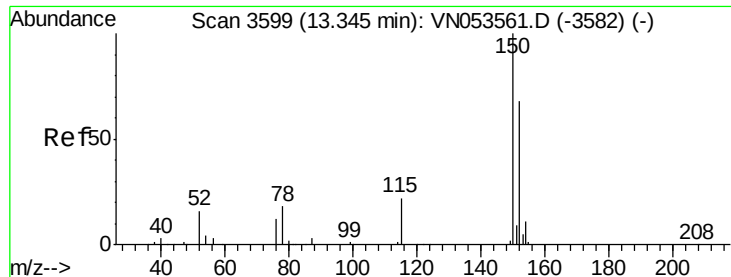
Tot Ion:117 Resp: 1137316
Ion Ratio Lower Upper
117 100
82 52.2 42.9 64.3
119 31.9 26.0 39.0



#71
Bromoform
Concen: 0.547 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053661.D
Acq: 7 Feb 2019 17:40

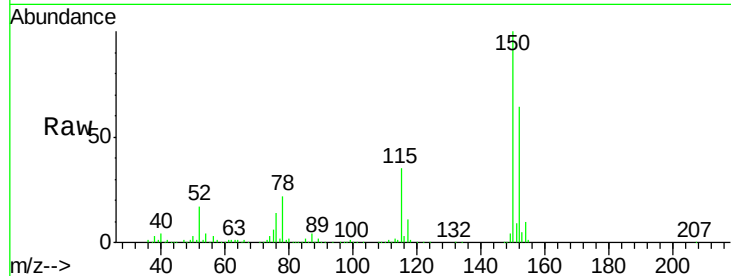
Tgt Ion:173 Resp: 3164
Ion Ratio Lower Upper
173 100
175 920.7 24.6 74.0#
254 0.0 0.2 0.2#





#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.35 min Scan# 3599
 Delta R.T. 0.00 min
 Lab File: VN053661.D
 Acq: 7 Feb 2019 17:40

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.1	27.8	83.4
150	157.2	0.0	349.0

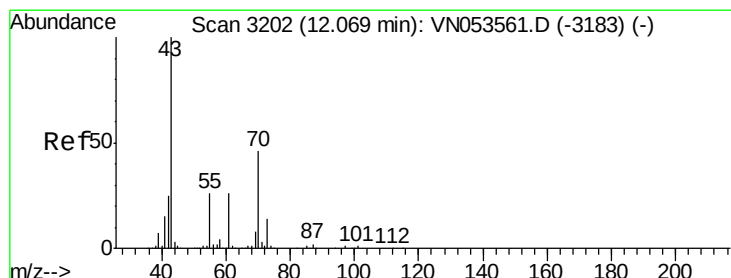
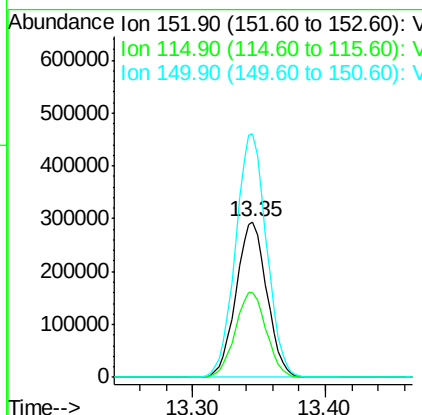
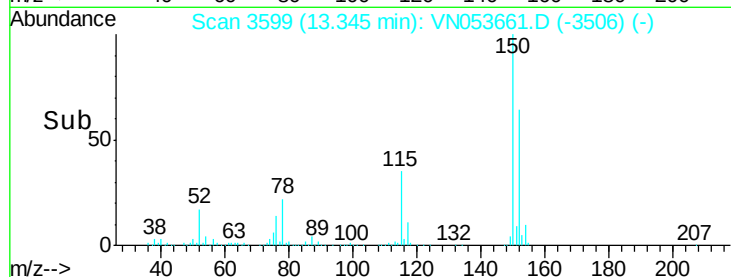


Abundance

Ion 151.90 (151.60 to 152.60): V

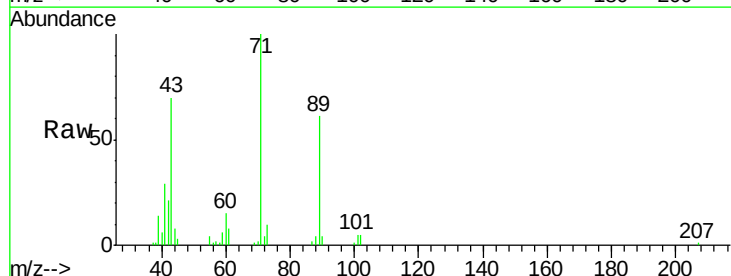
Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74
 N-ethyl acetate
 Concen: 2.755 ug/l
 RT: 11.88 min Scan# 3142
 Delta R.T. -0.19 min
 Lab File: VN053661.D
 Acq: 7 Feb 2019 17:40

Tgt Ion	Ratio	Lower	Upper
43	100		
70	2.6	35.4	53.2#
55	5.5	20.9	31.3#
61	10.6	20.5	30.7#



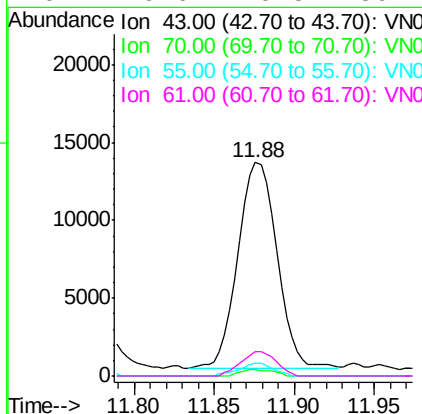
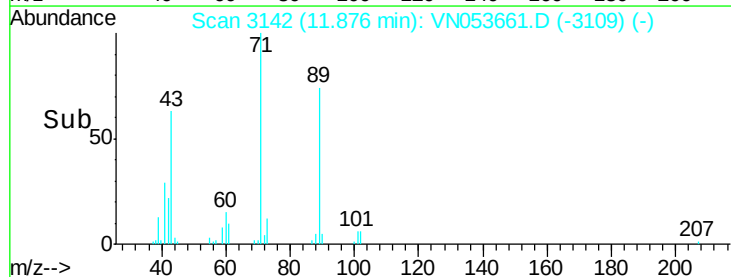
Abundance

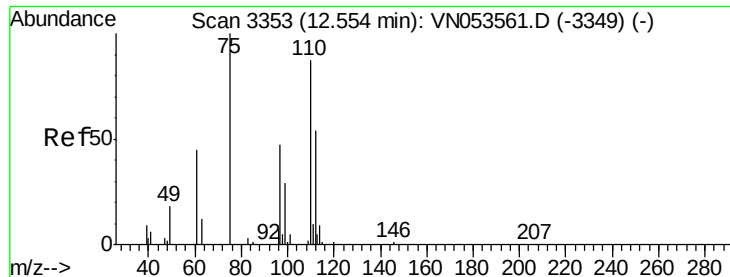
Ion 43.00 (42.70 to 43.70): V

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

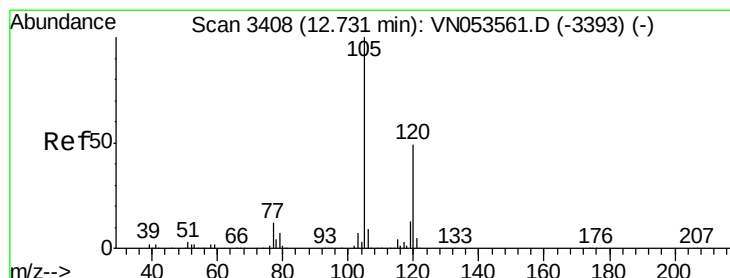
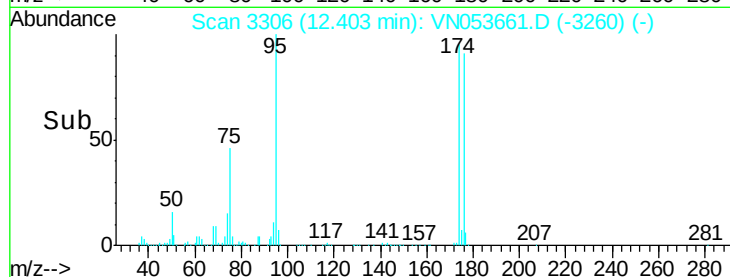
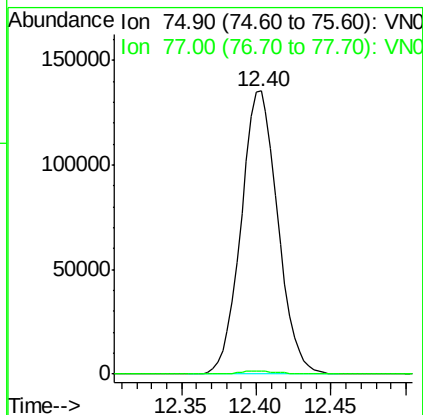
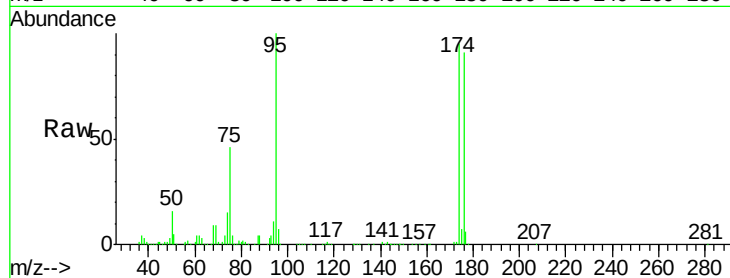




#76

1,2,3-Trichloropropane
Concen: 37.800 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN053661.D
Acq: 7 Feb 2019 17:40

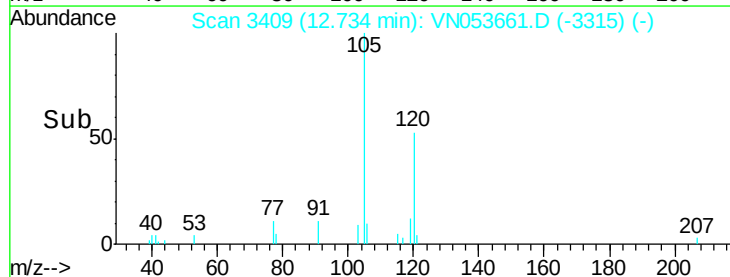
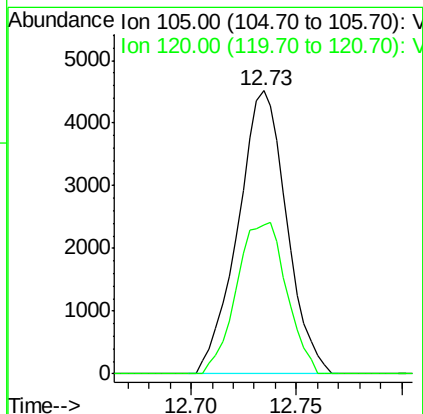
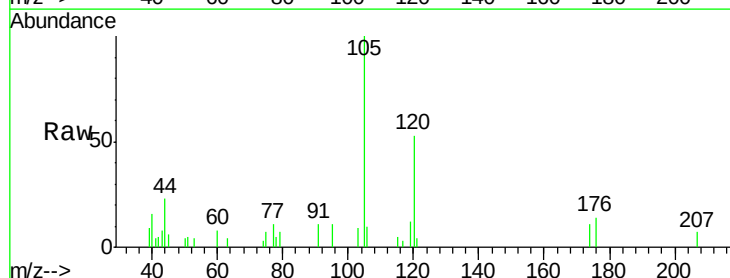
Tot Ion: 75 Resp: 230629
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#

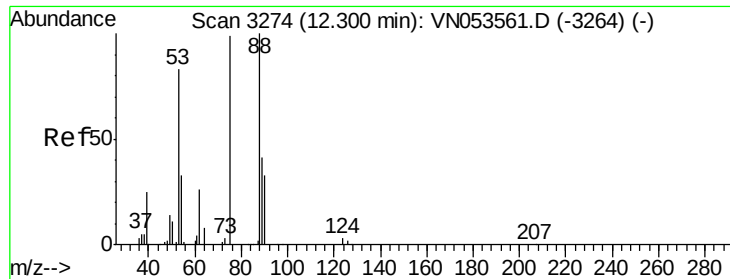


#80

1,3,5-Trimethylbenzene
Concen: 0.262 ug/l
RT: 12.73 min Scan# 3409
Delta R.T. 0.00 min
Lab File: VN053661.D
Acq: 7 Feb 2019 17:40

Tgt Ion: 105 Resp: 7255
Ion Ratio Lower Upper
105 100
120 54.8 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 106.289 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053661.D

Acq: 7 Feb 2019 17:40

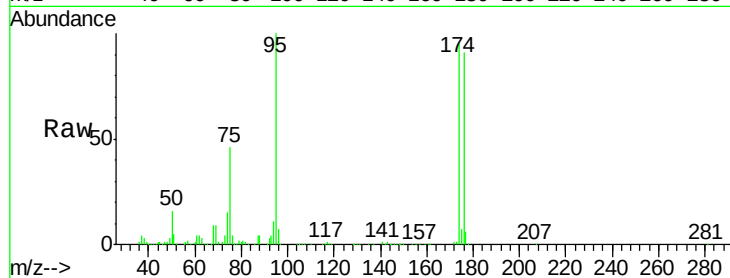
Tot Ion: 75 Resp: 230629

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

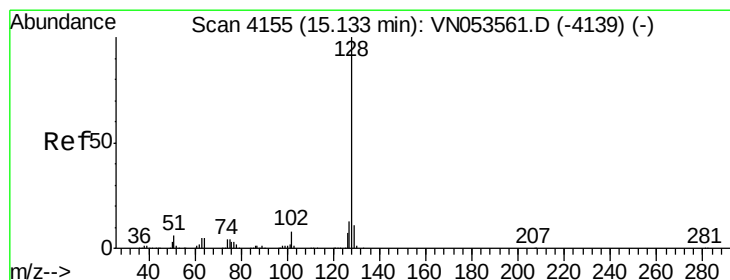
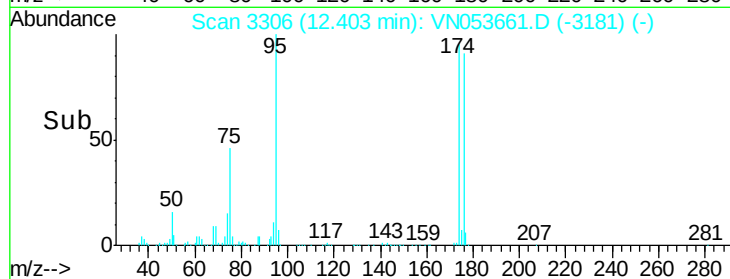
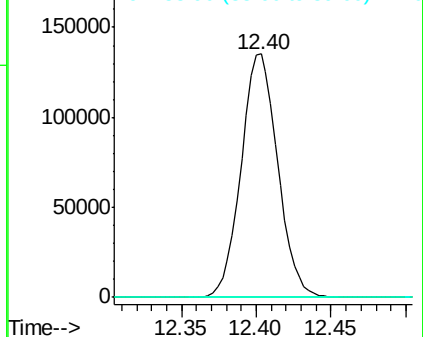
89 0.0 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#95

Naphthalene

Concen: 1.739 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN053661.D

Acq: 7 Feb 2019 17:40

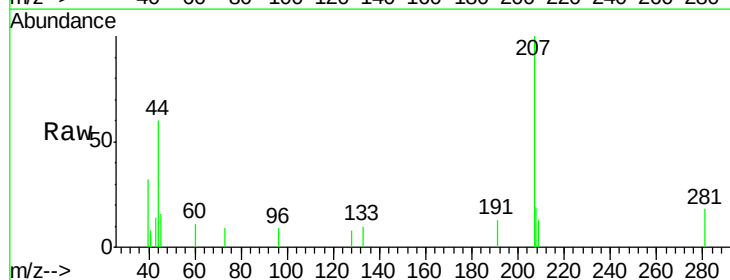
Tgt Ion: 128 Resp: 62

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): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

