

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031519\
 Data File : VN054313.D
 Acq On : 15 Mar 2019 16:53
 Operator : JC/SP
 Sample : K1894-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RFK-RMAB-MW11-GW

Quant Time: Mar 16 03:21:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1301605	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2183866	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2297911	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	907085	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	690733	49.97	ug/l	0.00
Spiked Amount			Recovery	=	99.94%	
35) Dibromofluoromethane	7.59	113	670837	47.63	ug/l	0.00
Spiked Amount			Recovery	=	95.26%	
50) Toluene-d8	10.09	98	2697268	51.85	ug/l	0.00
Spiked Amount			Recovery	=	103.70%	
62) 4-Bromofluorobenzene	12.40	95	1007001	55.33	ug/l	0.00
Spiked Amount			Recovery	=	110.66%	

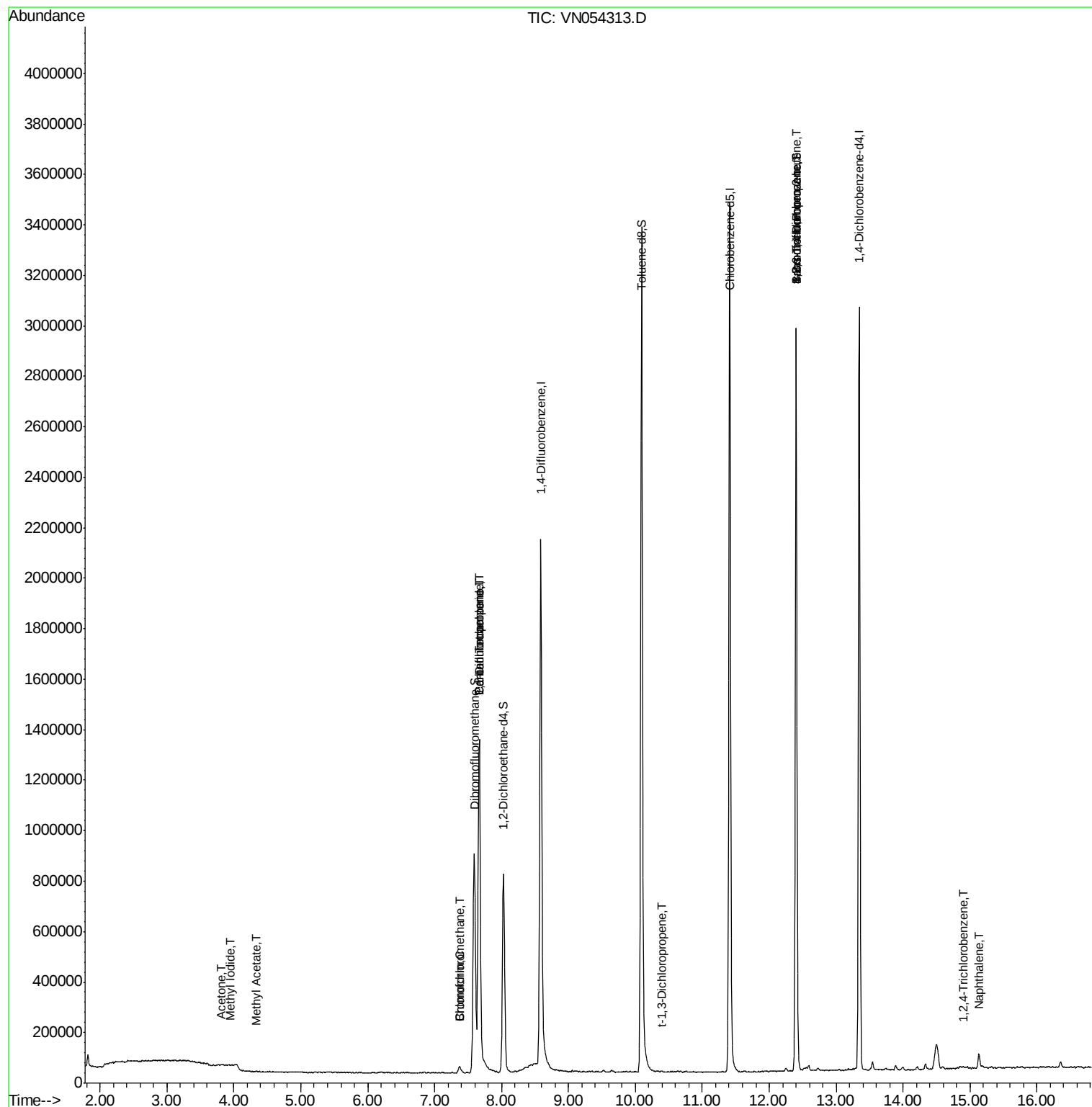
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.94	142	534	1.524	ug/l #	52
16) Acetone	3.82	43	4158	1.051	ug/l #	74
18) Methyl Acetate	4.34	43	3555	0.444	ug/l	94
28) Bromochloromethane	7.37	49	2152	0.237	ug/l #	4
30) Chloroform	7.37	83	28464	1.227	ug/l	99
31) Cyclohexane	7.66	56	18530	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	73198	3.640	ug/l #	48
38) Carbon Tetrachloride	7.67	117	105915	5.022	ug/l #	15
53) t-1,3-Dichloropropene	10.39	75	234	1.996	ug/l #	1
71) Bromoform	12.40	173	5933	2.755	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	479803	35.970	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	479803	122.960	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.90	180	1191	2.576	ug/l	75
95) Naphthalene	15.13	128	54442	4.743	ug/l	98

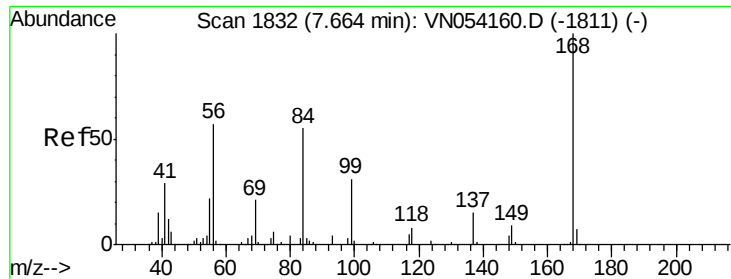
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054313.D

Acq: 15 Mar 2019 16:53

Instrument :

MSVOA_N

ClientSampleId :

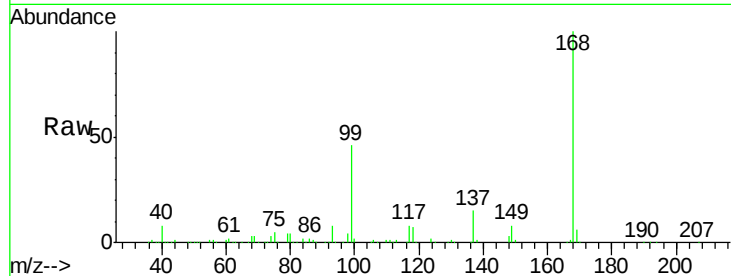
RFK-RMAB-MW11-GW

Tot Ion:168 Resp: 1301605

Ion Ratio Lower Upper

168 100

99 46.4 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

600000

500000

400000

300000

200000

100000

0

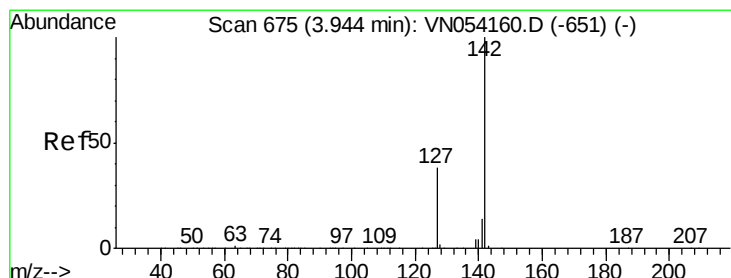
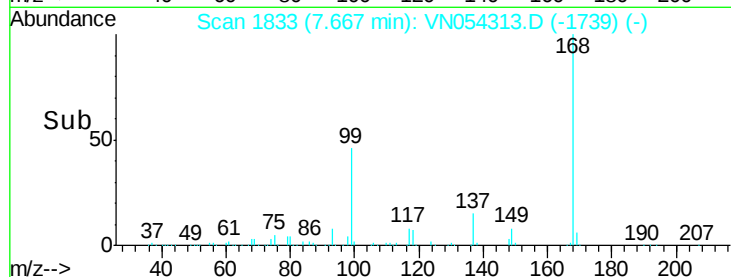
7.67

7.60

7.70

7.80

Time-->



#10

Methyl Iodide

Concen: 1.524 ug/l

RT: 3.94 min Scan# 674

Delta R.T. -0.00 min

Lab File: VN054313.D

Acq: 15 Mar 2019 16:53

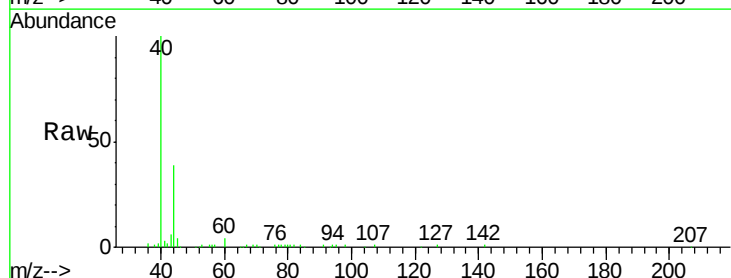
Tgt Ion:142 Resp: 534

Ion Ratio Lower Upper

142 100

127 69.9 30.3 45.5#

141 0.0 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

500

400

300

200

100

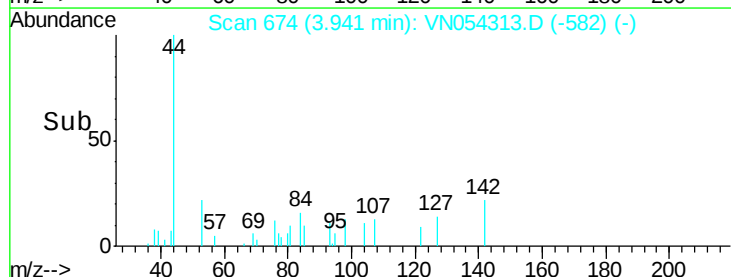
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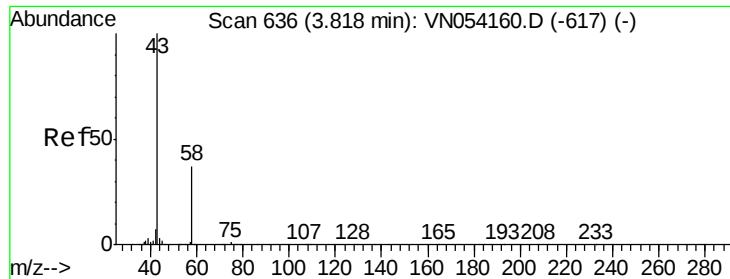
3.94

3.92

3.96

Time-->





#16

Acetone

Concen: 1.051 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN054313.D

Acq: 15 Mar 2019 16:53

Instrument :

MSVOA_N

ClientSampleId :

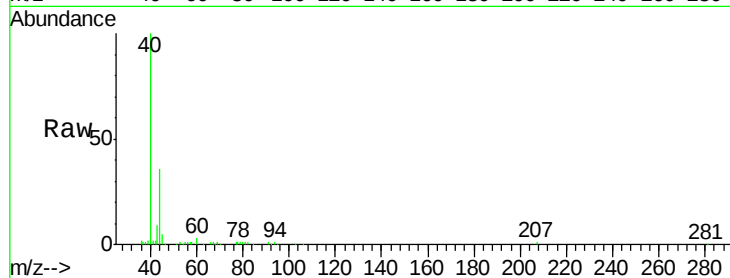
RFK-RMAB-MW11-GW

Tot Ion: 43 Resp: 4158

Ion Ratio Lower Upper

43 100

58 21.6 29.9 44.9#



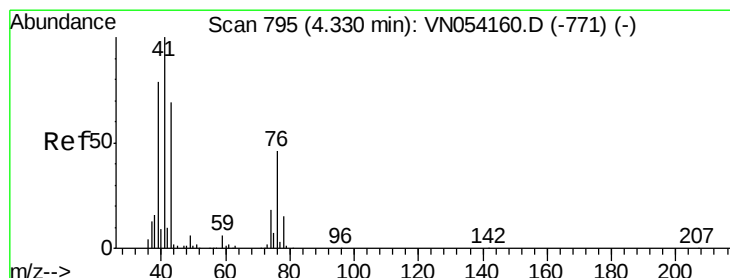
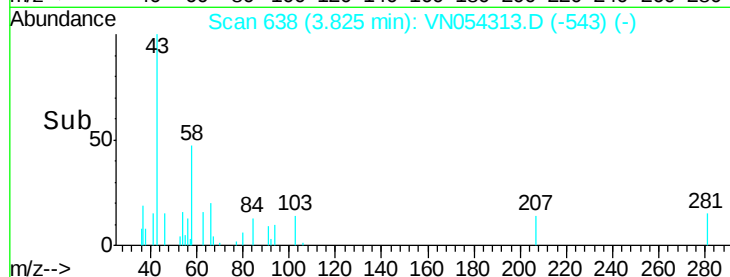
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

3.85

Time-->



#18

Methyl Acetate

Concen: 0.444 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN054313.D

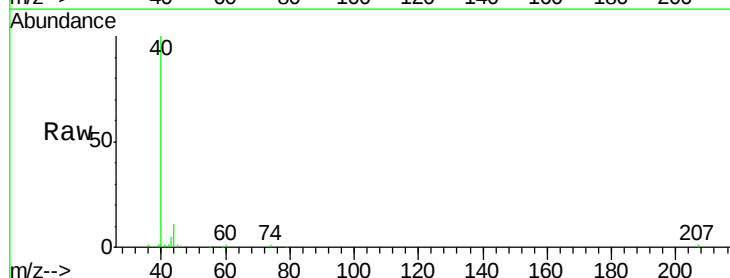
Acq: 15 Mar 2019 16:53

Tgt Ion: 43 Resp: 3555

Ion Ratio Lower Upper

43 100

74 22.7 20.8 31.2



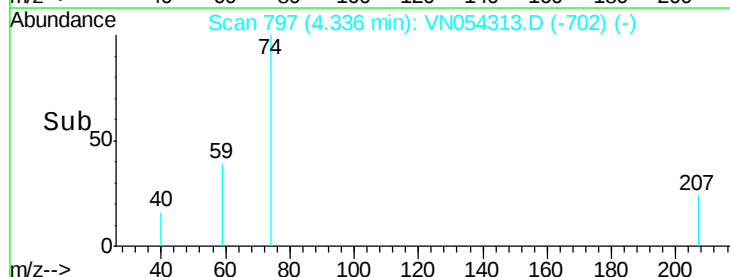
Abundance Ion 43.00 (42.70 to 43.70): VN0

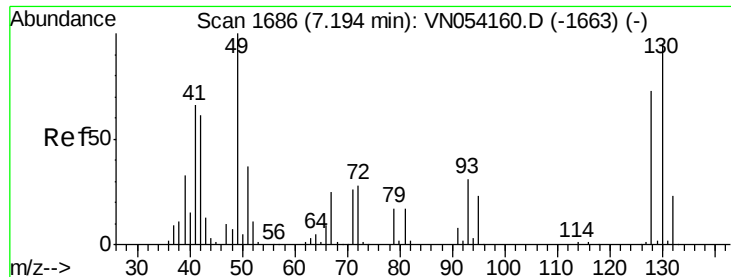
Ion 74.00 (73.70 to 74.70): VN0

4.34

4.35

Time-->





#28

Bromochloromethane

Concen: 0.237 ug/l

RT: 7.37 min Scan# 1740

Delta R.T. 0.17 min

Lab File: VN054313.D

Acq: 15 Mar 2019 16:53

Instrument :

MSVOA_N

ClientSampleId :

RFK-RMAB-MW11-GW

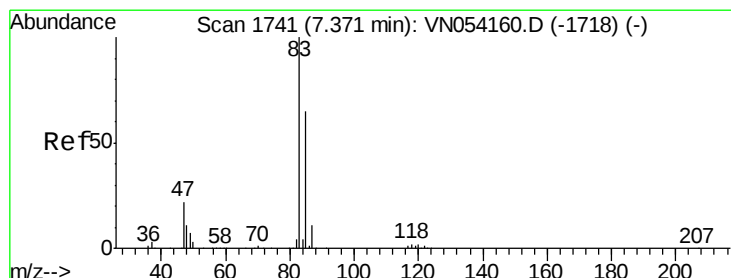
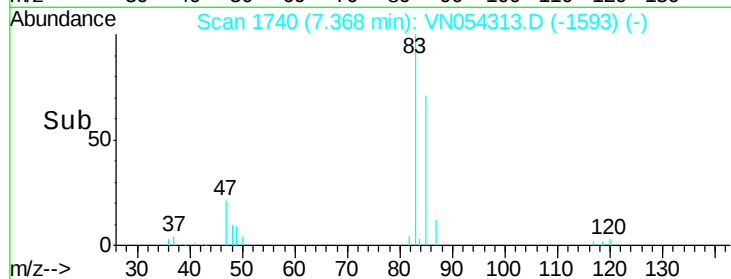
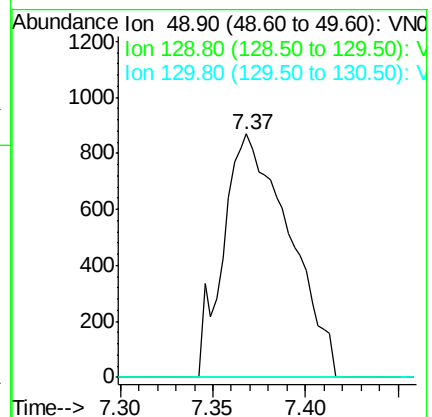
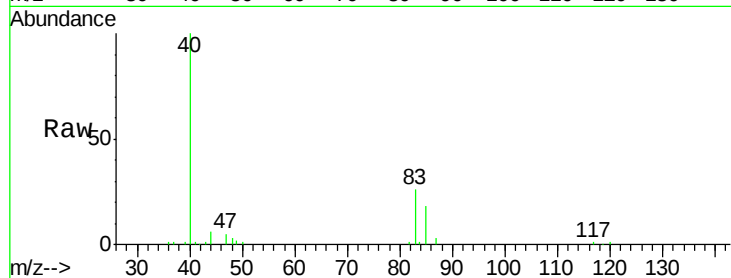
Tot Ion: 49 Resp: 2152

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.6

130 0.0 76.7 115.1#



#30

Chloroform

Concen: 1.227 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VN054313.D

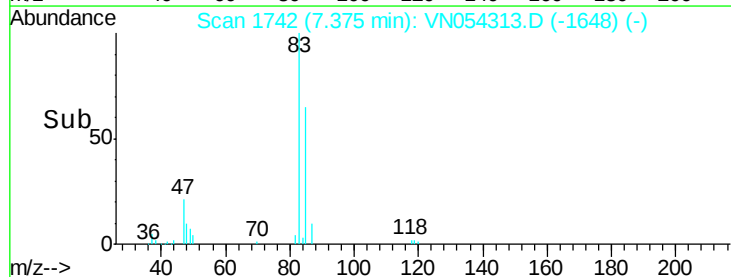
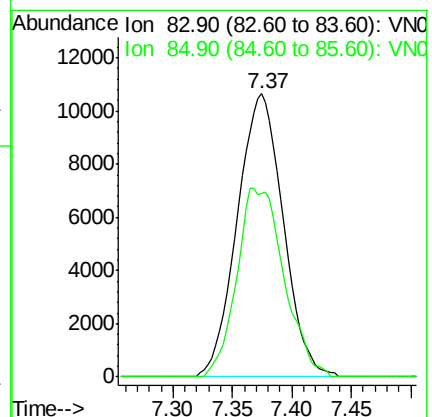
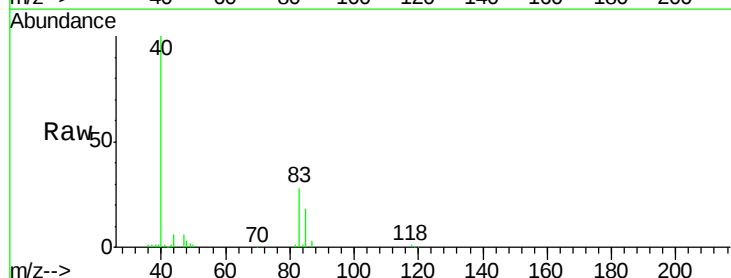
Acq: 15 Mar 2019 16:53

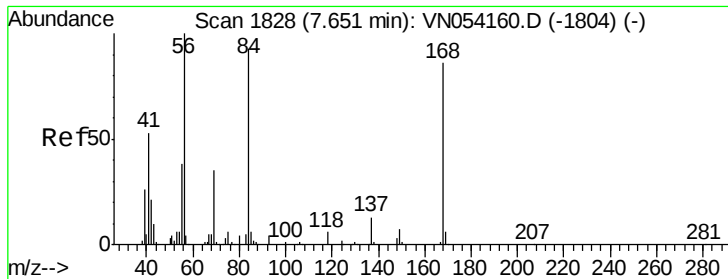
Tgt Ion: 83 Resp: 28464

Ion Ratio Lower Upper

83 100

85 64.8 52.2 78.4

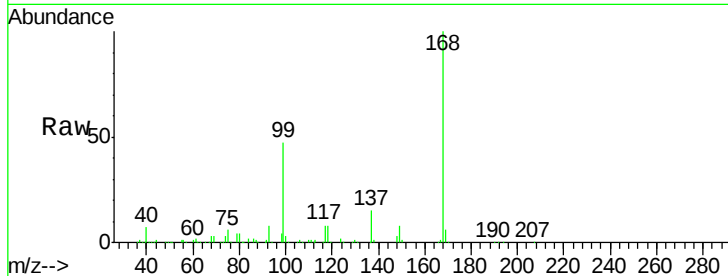




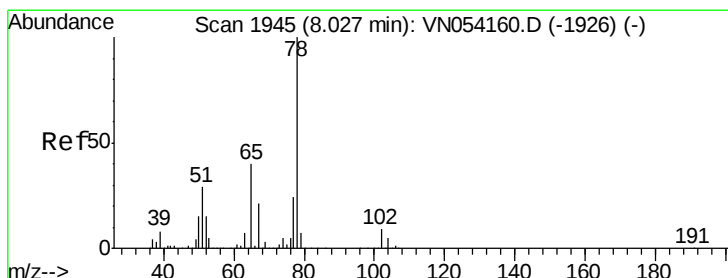
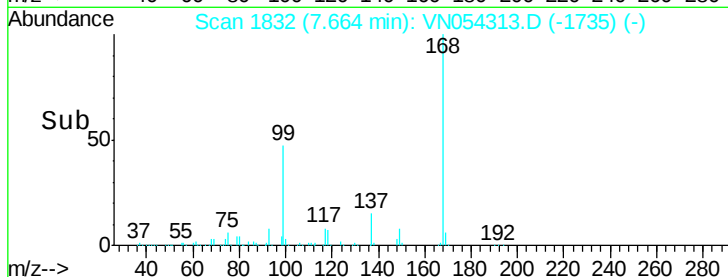
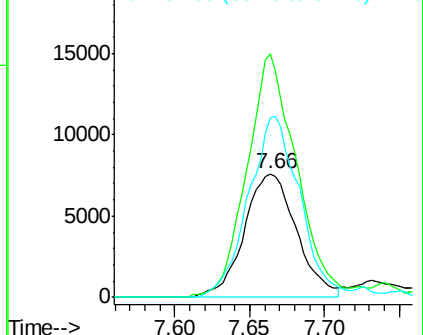
#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054313.D
Acq: 15 Mar 2019 16:53

Instrument :
MSVOA_N
ClientSampleId :
RFK-RMAB-MW11-GW

Tot Ion: 56 Resp: 18530
Ion Ratio Lower Upper
56 100
69 196.9 27.8 41.6#
84 145.0 74.6 111.8#

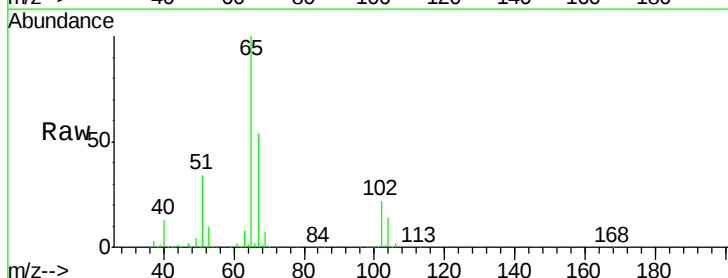


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

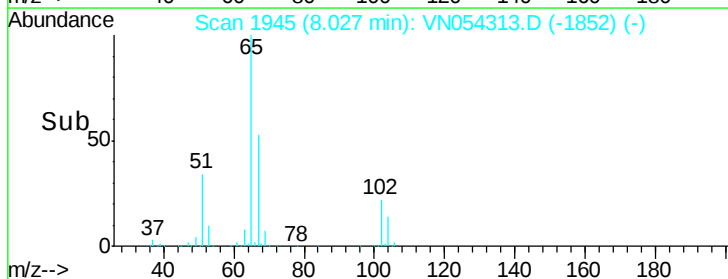
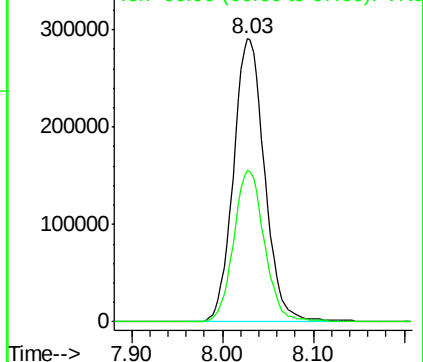


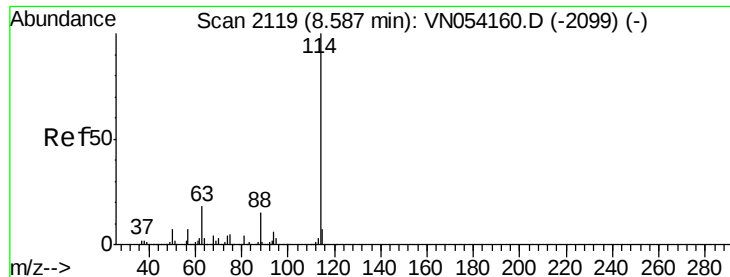
#33
1,2-Dichloroethane-d4
Concen: 49.970 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN054313.D
Acq: 15 Mar 2019 16:53

Tgt Ion: 65 Resp: 690733
Ion Ratio Lower Upper
65 100
67 53.1 0.0 104.6



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: VN054313.D

Acq: 15 Mar 2019 16:53

Instrument :

MSVOA_N

ClientSampleId :

RFK-RMAB-MW11-GW

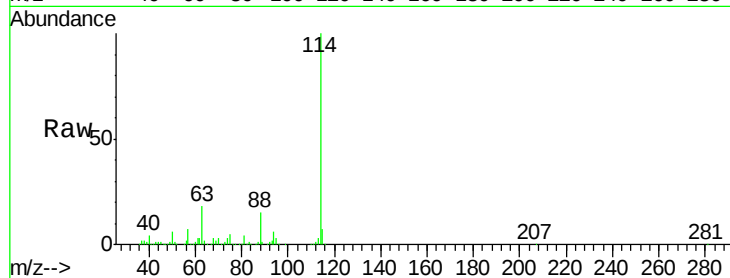
Tot Ion:114 Resp: 2183866

Ion Ratio Lower Upper

114 100

63 17.8 0.0 35.2

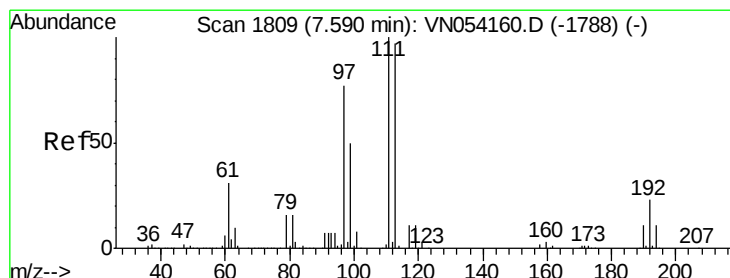
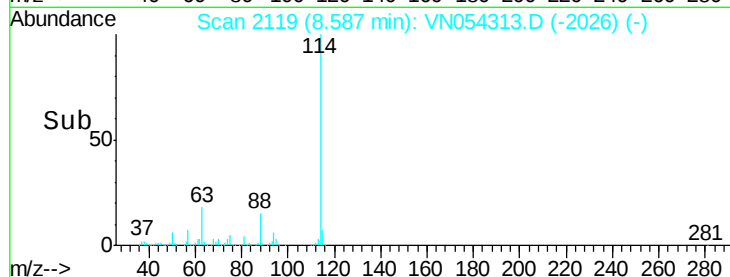
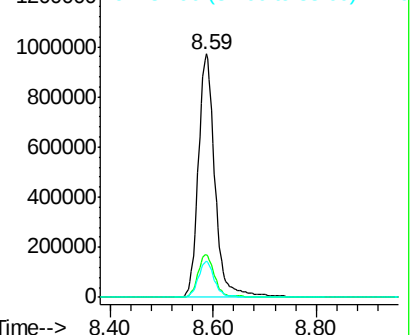
88 14.7 0.0 30.2



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: 47.628 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054313.D

Acq: 15 Mar 2019 16:53

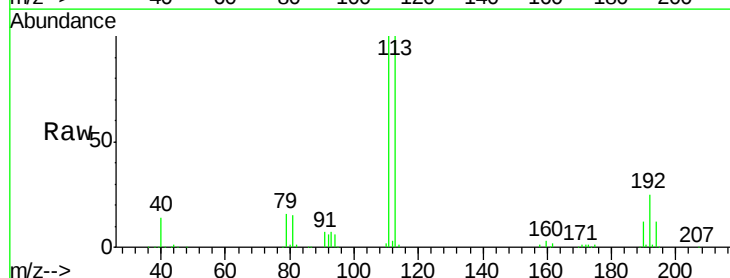
Tgt Ion:113 Resp: 670837

Ion Ratio Lower Upper

113 100

111 101.5 82.2 123.4

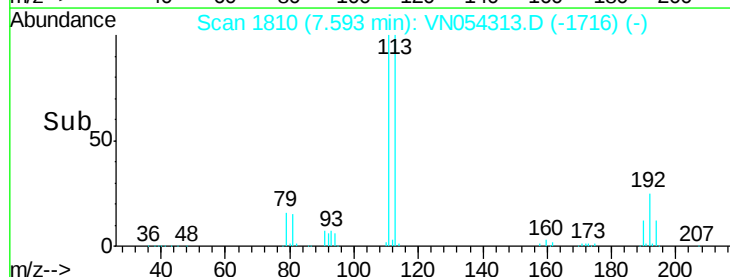
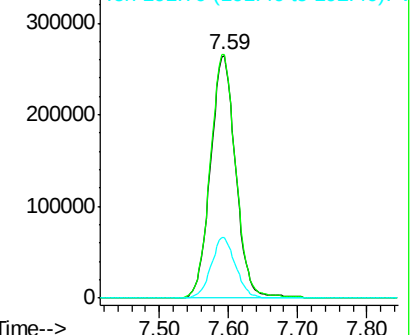
192 24.1 19.2 28.8

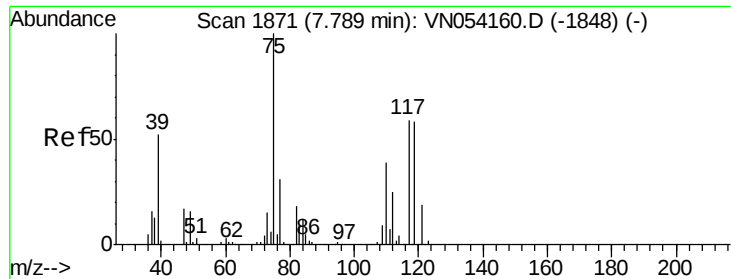


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

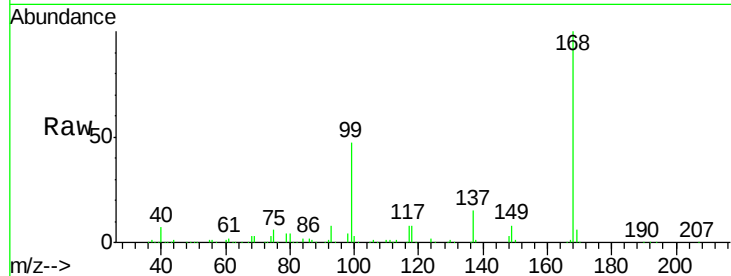




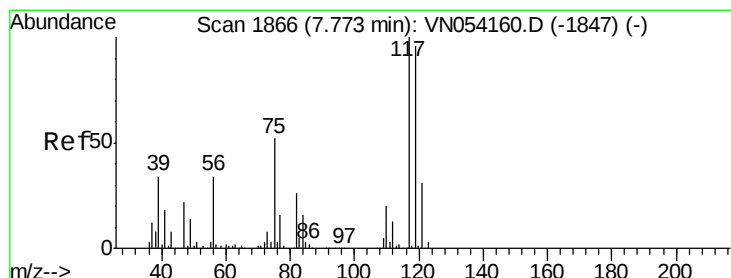
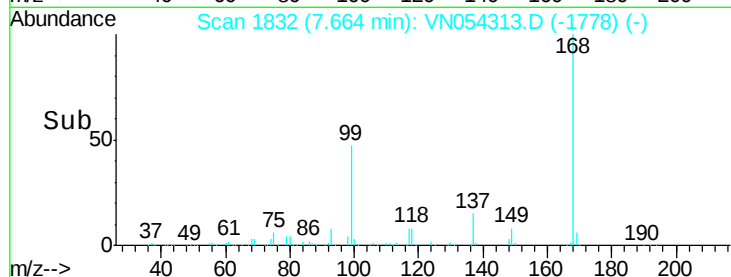
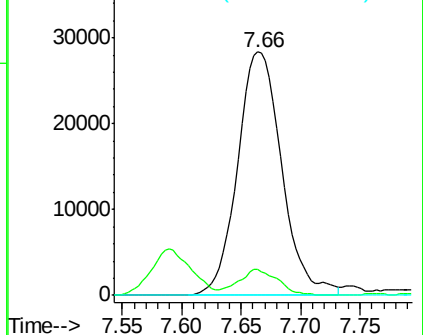
#36
 1,1-Dichloropropene
 Concen: 3.640 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054313.D
 Acq: 15 Mar 2019 16:53

Instrument :
 MSVOA_N
 ClientSampleId :
 RFK-RMAB-MW11-GW

Tot Ion	75	Resp	73198
Ion Ratio	100	Lower	Upper
75	100		
110	9.5	19.1	57.5#
77	0.0	25.0	37.4#

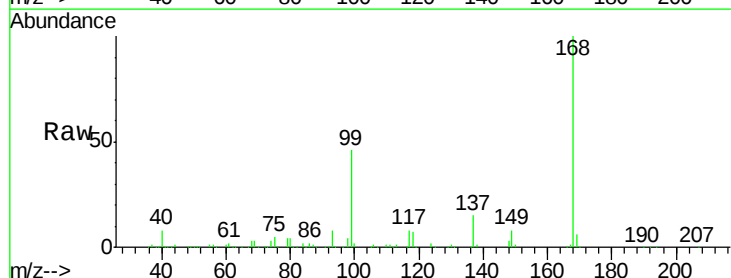


Abundance Ion 74.90 (74.60 to 75.60): VN054313.D (-1778) (-)

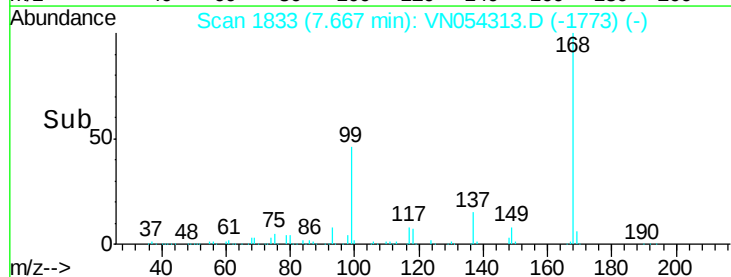
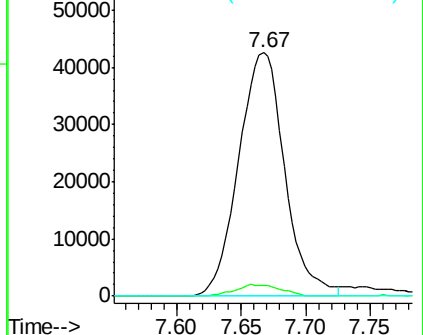


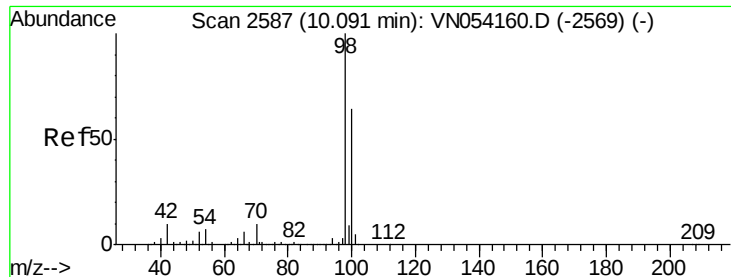
#38
 Carbon Tetrachloride
 Concen: 5.022 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN054313.D
 Acq: 15 Mar 2019 16:53

Tgt Ion	117	Resp	105915
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	4.2	76.3	114.5#
121	0.0	24.6	36.8#



Abundance Ion 116.80 (116.50 to 117.50): VN054313.D (-1773) (-)





#50

Toluene-d8

Concen: 51.853 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054313.D

Acq: 15 Mar 2019 16:53

Instrument :

MSVOA_N

ClientSampleId :

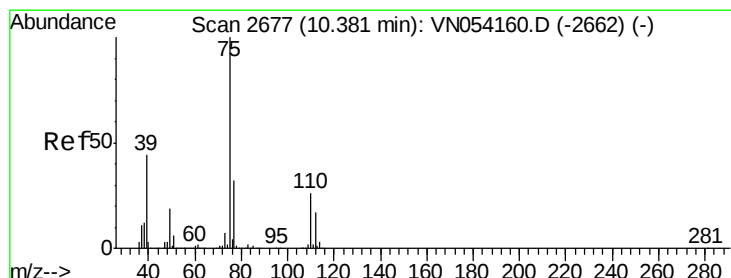
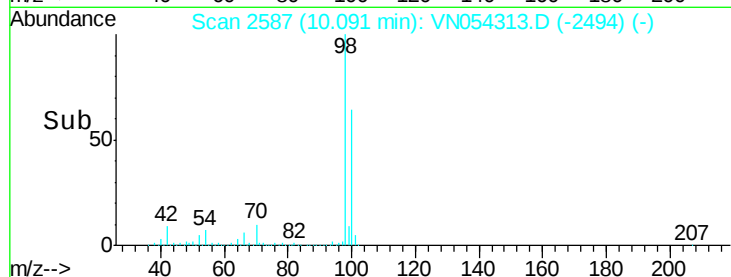
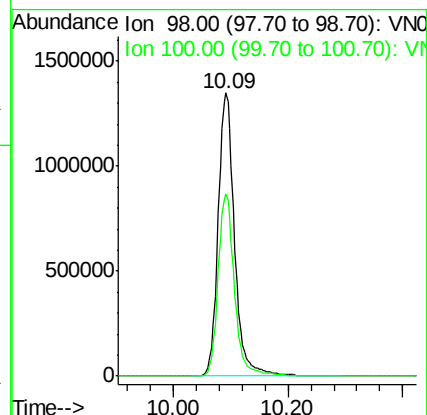
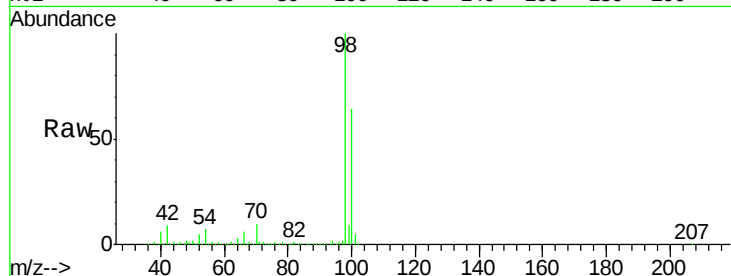
RFK-RMAB-MW11-GW

Tot Ion: 98 Resp: 2697268

Ion Ratio Lower Upper

98 100

100 64.4 51.2 76.8



#53

t-1,3-Dichloropropene

Concen: 1.996 ug/l

RT: 10.39 min Scan# 2681

Delta R.T. 0.01 min

Lab File: VN054313.D

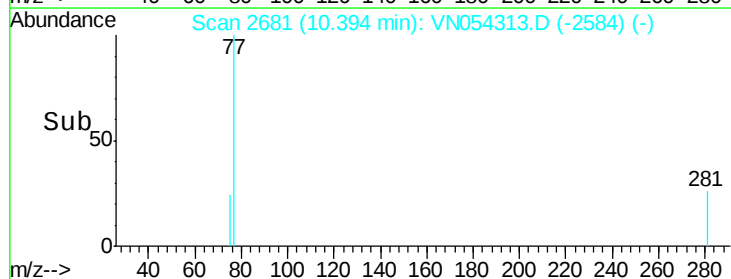
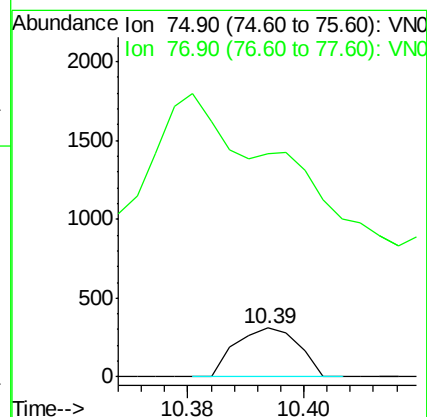
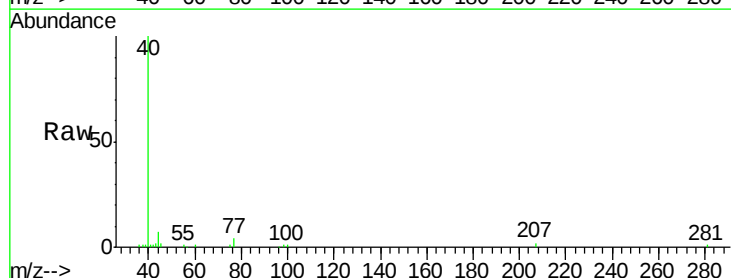
Acq: 15 Mar 2019 16:53

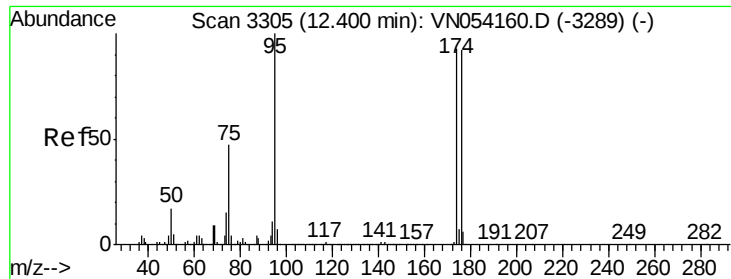
Tgt Ion: 75 Resp: 234

Ion Ratio Lower Upper

75 100

77 132.3 25.8 38.8#





#62

4-Bromofluorobenzene

Concen: 55.326 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054313.D

Acq: 15 Mar 2019 16:53

Instrument :

MSVOA_N

ClientSampleId :

RFK-RMAB-MW11-GW

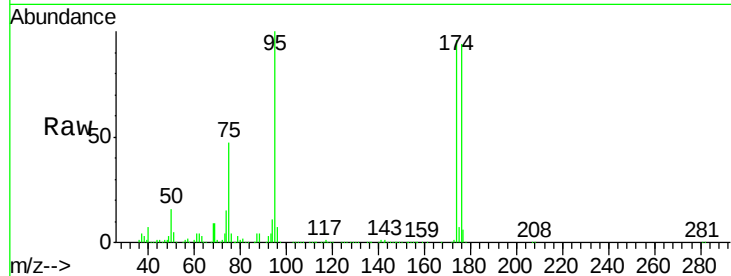
Tot Ion: 95 Resp: 1007001

Ion Ratio Lower Upper

95 100

174 98.5 0.0 191.0

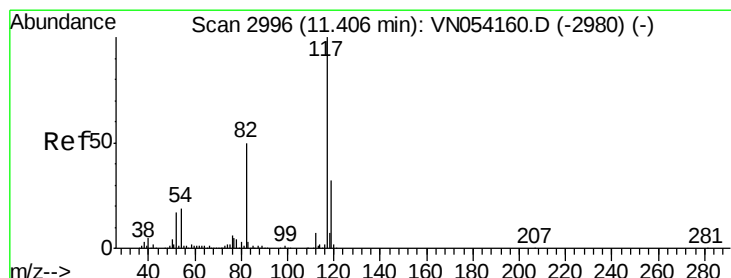
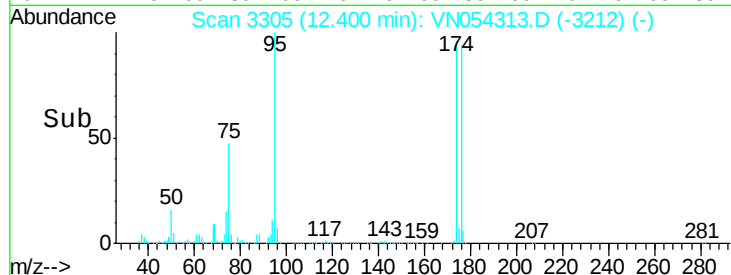
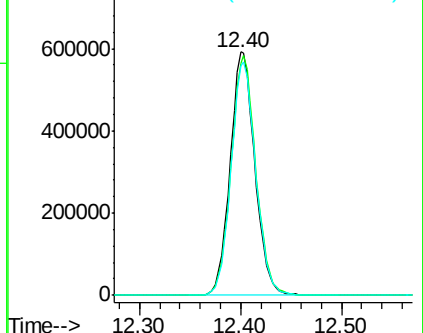
176 95.9 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054313.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN054313.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN054313.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN054313.D

Acq: 15 Mar 2019 16:53

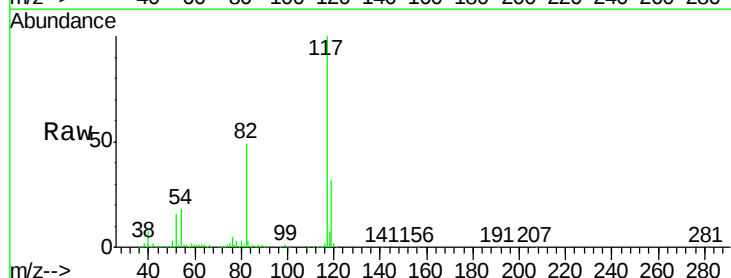
Tgt Ion: 117 Resp: 2297911

Ion Ratio Lower Upper

117 100

82 49.0 40.0 60.0

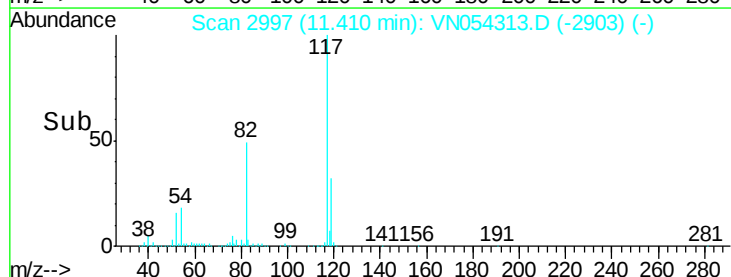
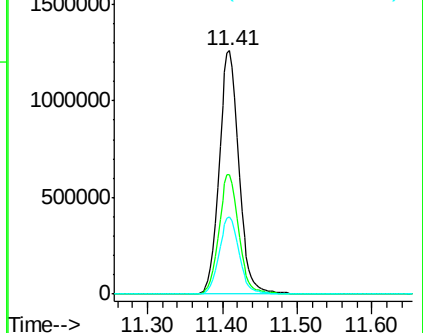
119 32.0 25.8 38.6

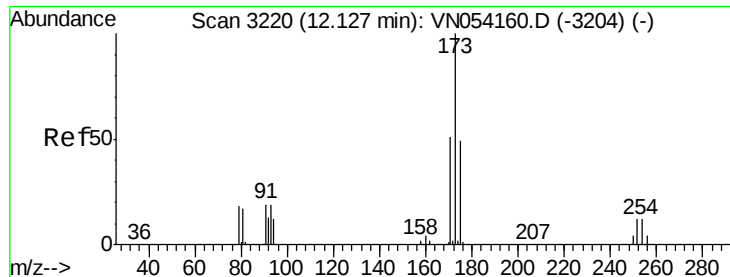


Abundance Ion 116.90 (116.60 to 117.60): VN054313.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN054313.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054313.D (-2903) (-)





#71

Bromoform

Concen: 2.755 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN054313.D

Acq: 15 Mar 2019 16:53

Instrument :

MSVOA_N

ClientSampleId :

RFK-RMAB-MW11-GW

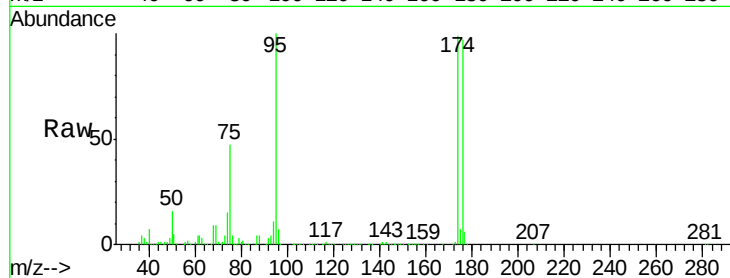
Tot Ion:173 Resp: 5933

Ion Ratio Lower Upper

173 100

175 1030.0 24.4 73.2#

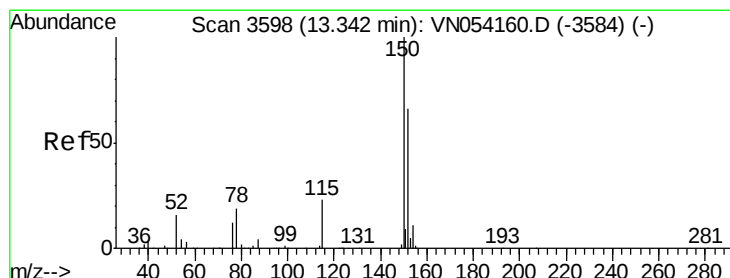
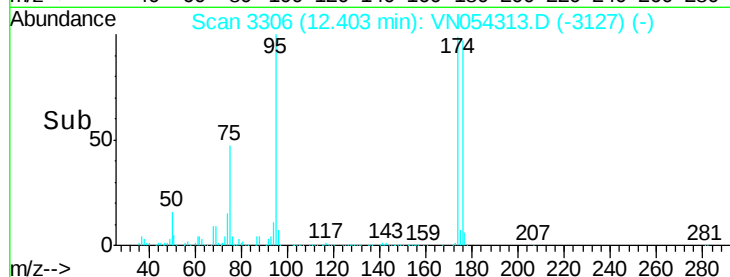
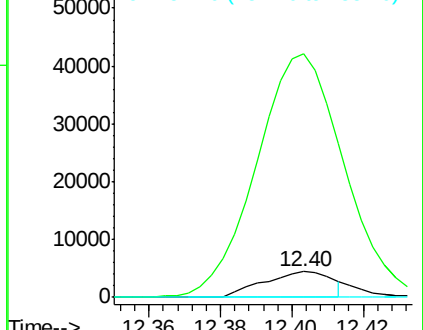
254 0.0 0.1 0.1#



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: VN054313.D

Acq: 15 Mar 2019 16:53

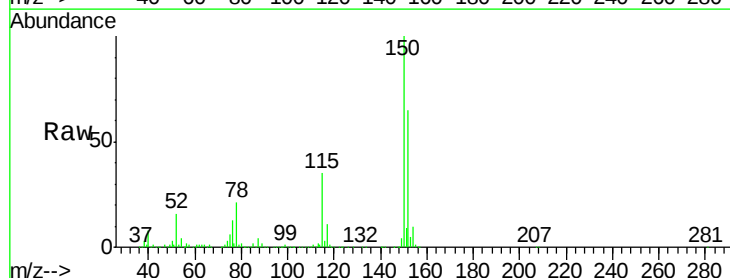
Tgt Ion:152 Resp: 907085

Ion Ratio Lower Upper

152 100

115 53.6 27.2 81.6

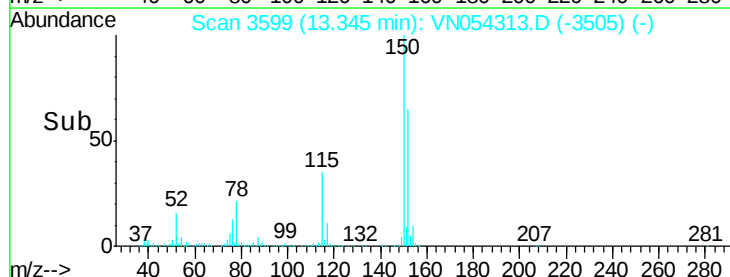
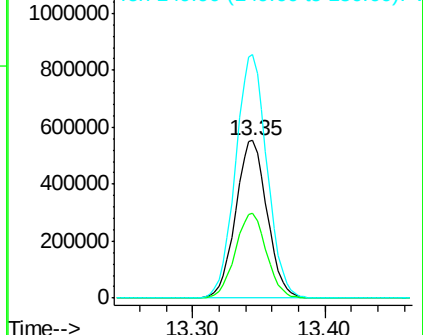
150 155.3 0.0 349.2

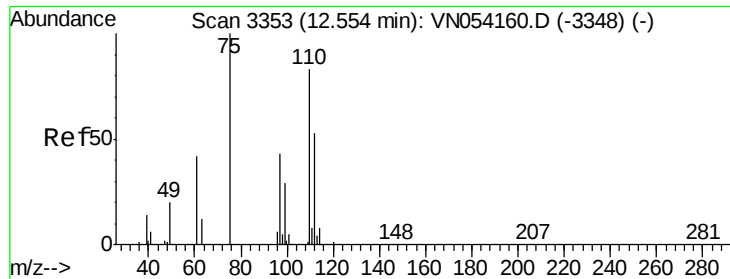


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 35.970 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054313.D

Acq: 15 Mar 2019 16:53

Instrument :

MSVOA_N

ClientSampleId :

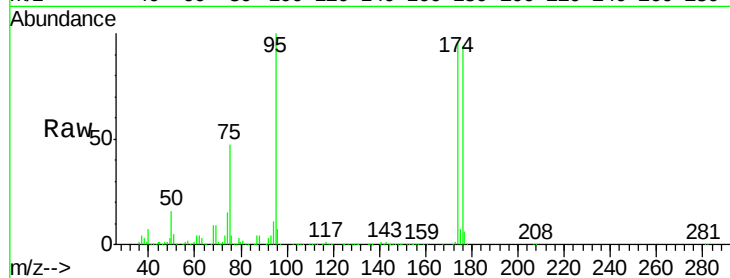
RFK-RMAB-MW11-GW

Tot Ion: 75 Resp: 479803

Ion Ratio Lower Upper

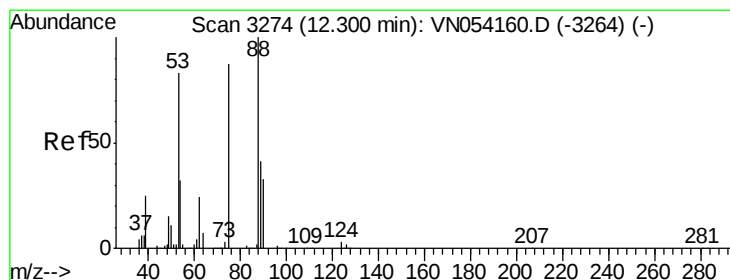
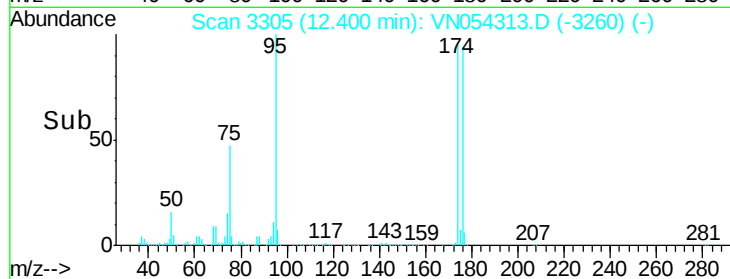
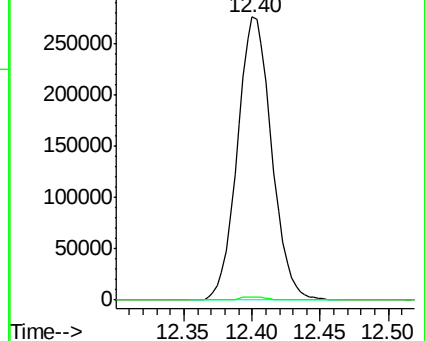
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 122.960 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054313.D

Acq: 15 Mar 2019 16:53

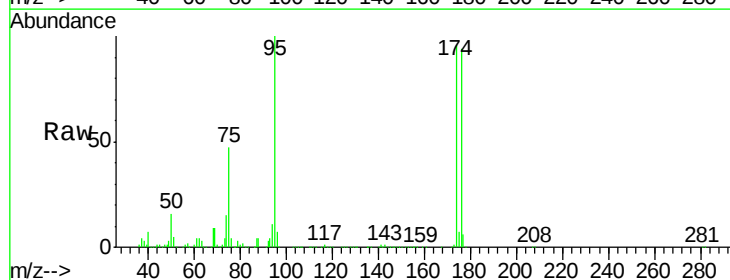
Tgt Ion: 75 Resp: 479803

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

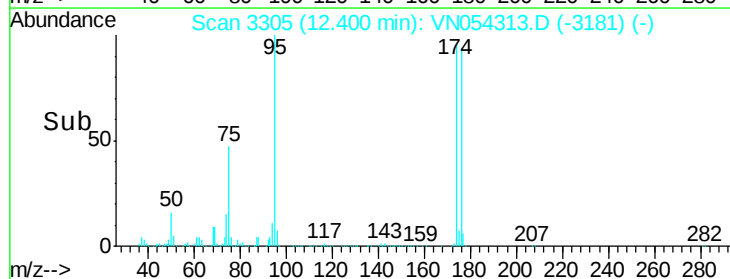
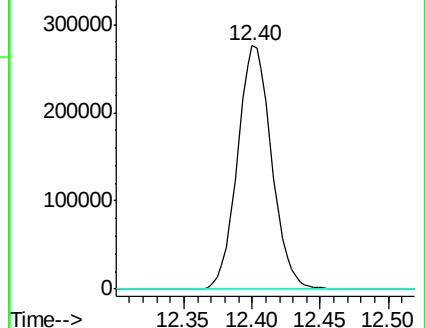
89 0.0 39.2 58.8#

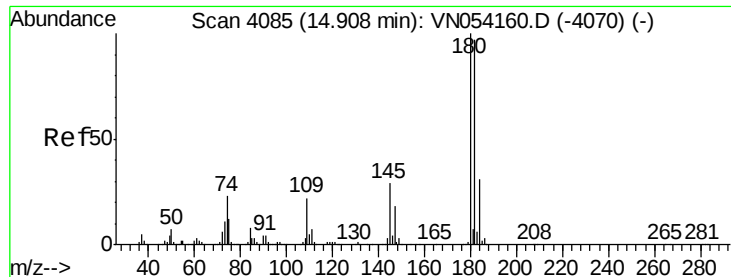


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#93

1,2,4-Trichlorobenzene

Concen: 2.576 ug/l

RT: 14.90 min Scan# 4084

Delta R.T. -0.00 min

Lab File: VN054313.D

Acq: 15 Mar 2019 16:53

Instrument :

MSVOA_N

ClientSampleId :

RFK-RMAB-MW11-GW

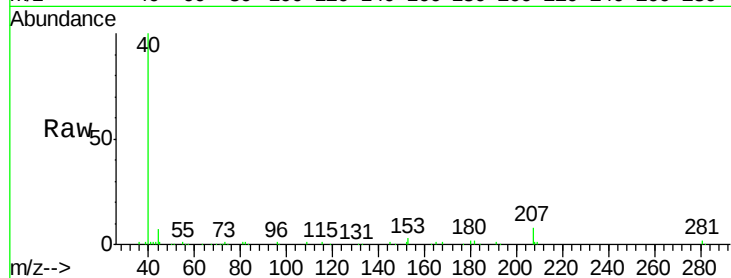
Tot Ion:180 Resp: 1191

Ion Ratio Lower Upper

180 100

182 120.3 48.0 144.2

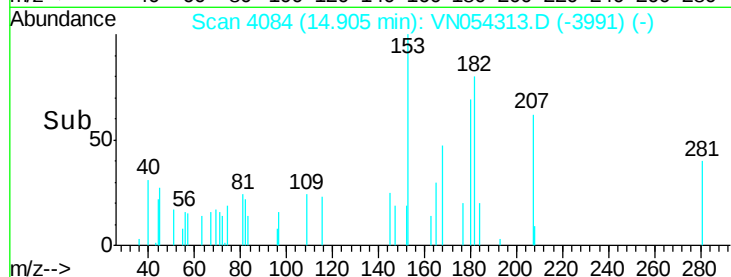
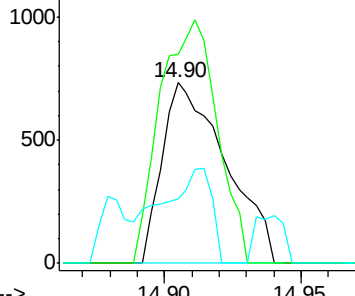
145 41.1 14.2 42.8



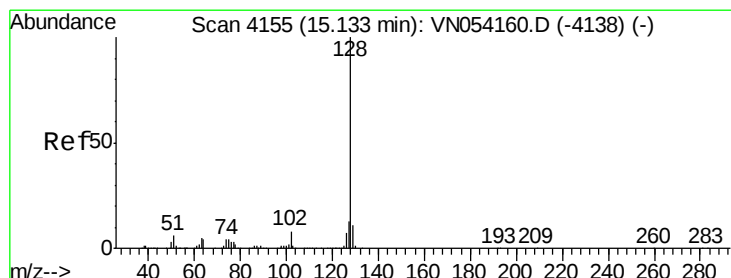
Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



Time-->



#95

Naphthalene

Concen: 4.743 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054313.D

Acq: 15 Mar 2019 16:53

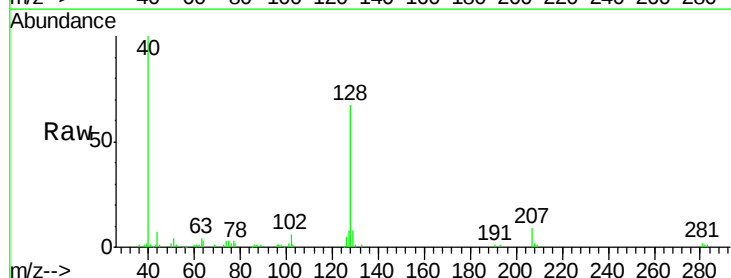
Tgt Ion:128 Resp: 54442

Ion Ratio Lower Upper

128 100

127 11.5 10.1 15.1

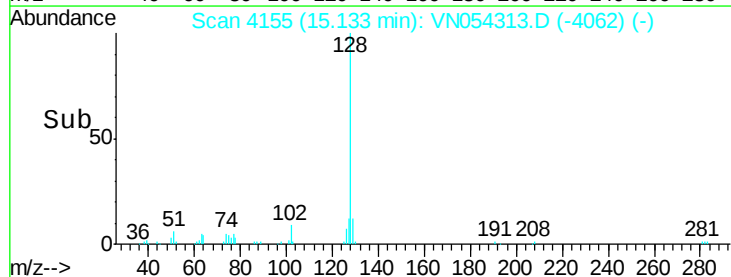
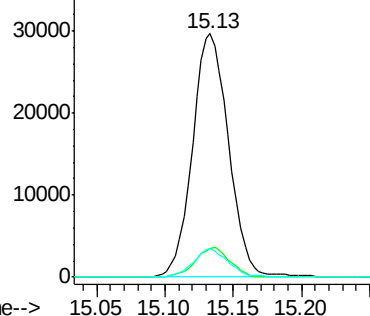
129 11.2 8.7 13.1



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



Time-->