

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042719\
 Data File : VN055271.D
 Acq On : 26 Apr 2019 13:09
 Operator : JC/SP
 Sample : K2576-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-18

Quant Time: Apr 27 01:59:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042219W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 23 05:52:53 2019
 Response via : Initial Calibration

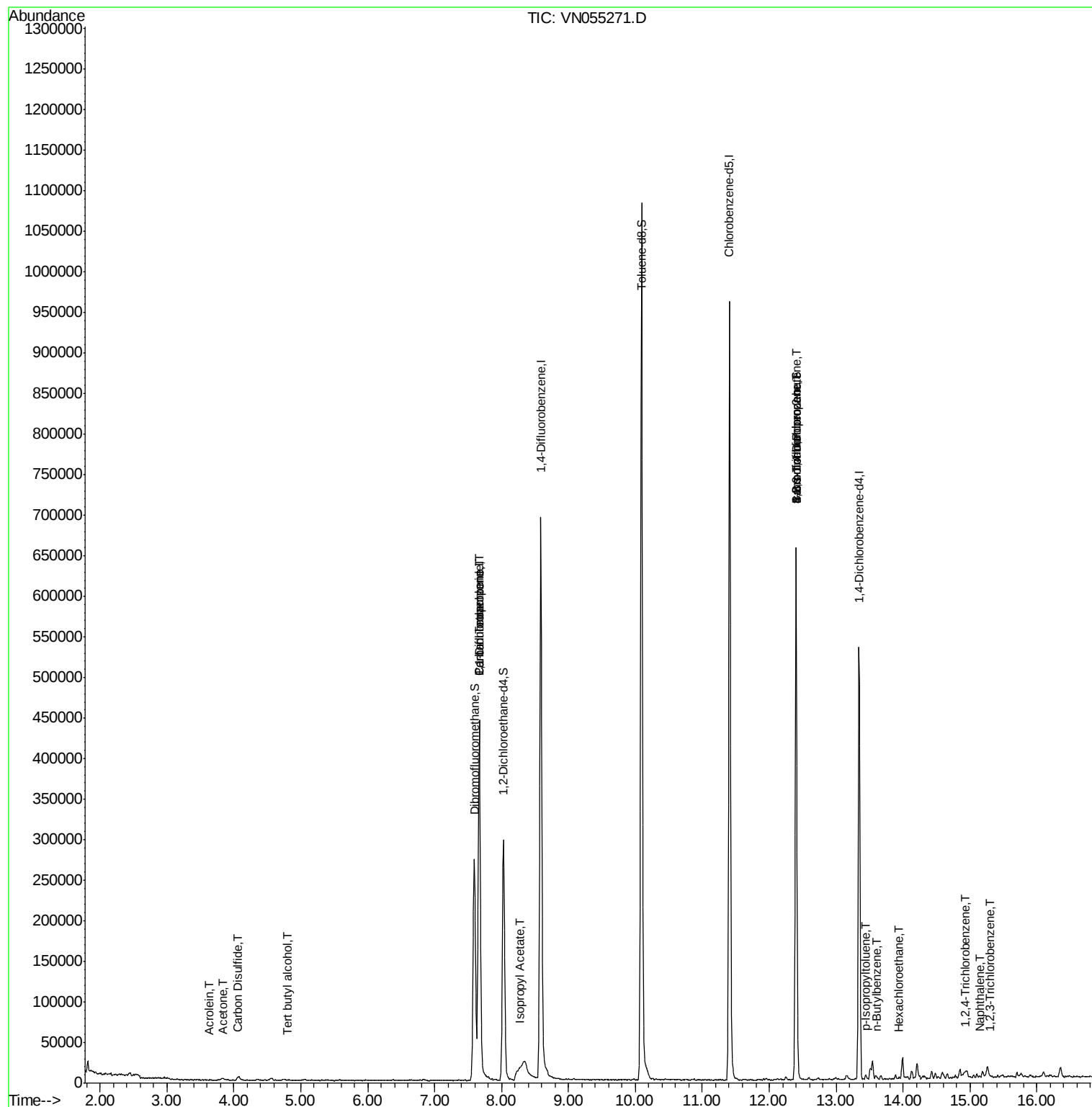
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	370726	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	637165	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	558368	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	148436	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	254387	50.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.40%	
35) Dibromofluoromethane	7.59	113	207471	47.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.86%	
50) Toluene-d8	10.09	98	779372	48.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.20%	
62) 4-Bromofluorobenzene	12.40	95	228241	44.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.88%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.81	59	157	0.536	ug/l #	71
13) Acrolein	3.63	56	63	9.647	ug/l #	14
16) Acetone	3.83	43	4477	2.699	ug/l	91
17) Carbon Disulfide	4.05	76	4231	0.397	ug/l #	75
18) Methyl Acetate	4.35	43	2506	Below Cal	#	80
31) Cyclohexane	7.66	56	8312	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	28286	4.783	ug/l #	50
38) Carbon Tetrachloride	7.67	117	35953	6.492	ug/l #	16
43) Isopropyl Acetate	8.27	43	17226	2.229	ug/l #	56
71) Bromoform	12.40	173	1800	0.714	ug/l #	1
73) Isopropylbenzene	12.25	105	2859	Below Cal		98
75) 1,1,2,2-Tetrachloroethane	12.48	83	91	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	118923	39.491	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	118923	149.705	ug/l #	5
83) tert-Butylbenzene	13.00	119	2042	Below Cal	#	90
86) p-Isopropyltoluene	13.45	119	3127	0.302	ug/l	90
89) n-Butylbenzene	13.61	91	1869	0.243	ug/l #	67
90) Hexachloroethane	13.94	117	1000	0.544	ug/l #	6
93) 1,2,4-Trichlorobenzene	14.91	180	164	2.809	ug/l #	1
94) Hexachlorobutadiene	15.01	225	30	Below Cal	#	18
95) Naphthalene	15.14	128	1308	3.646	ug/l #	89
96) 1,2,3-Trichlorobenzene	15.31	180	228	2.224	ug/l #	86

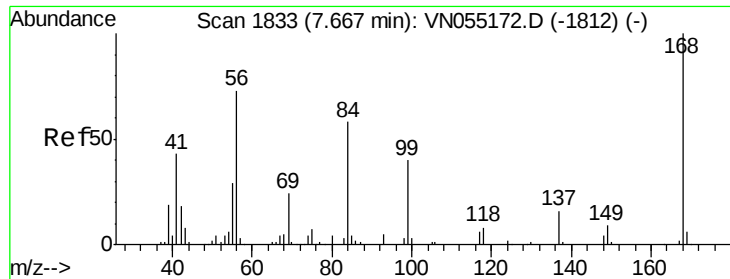
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN055271.D

Acq: 26 Apr 2019 13:09

Instrument :

MSVOA_N

ClientSampled :

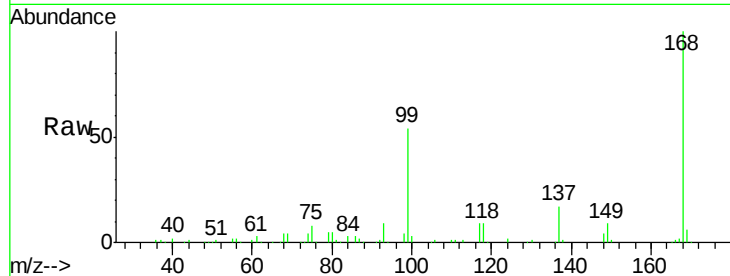
MW-18

Tot Ion:168 Resp: 370726

Ion Ratio Lower Upper

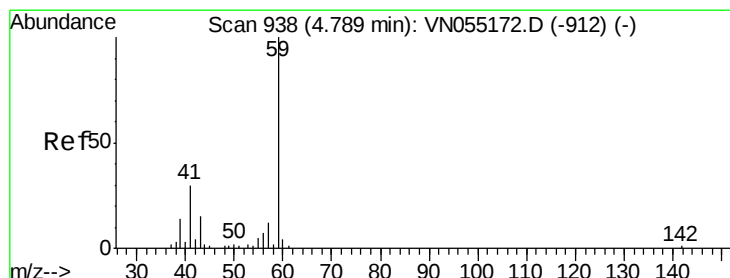
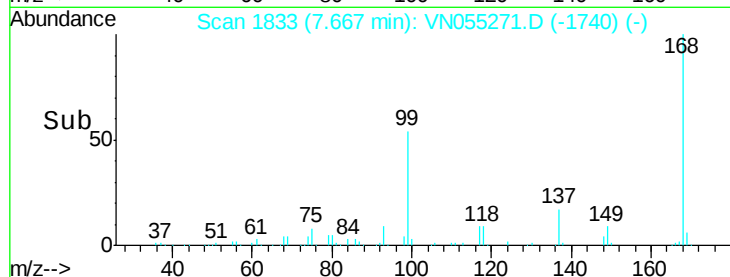
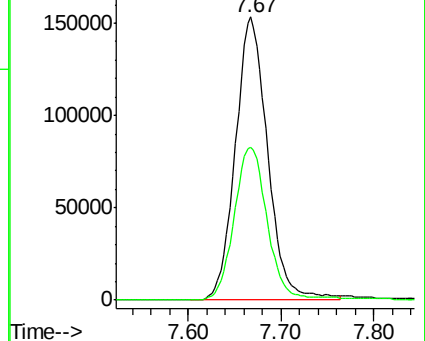
168 100

99 54.1 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 0.536 ug/l

RT: 4.81 min Scan# 943

Delta R.T. 0.02 min

Lab File: VN055271.D

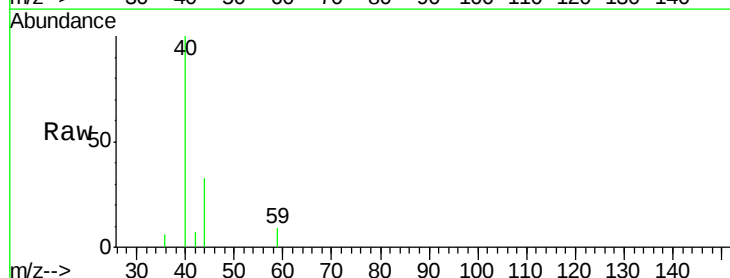
Acq: 26 Apr 2019 13:09

Tgt Ion: 59 Resp: 157

Ion Ratio Lower Upper

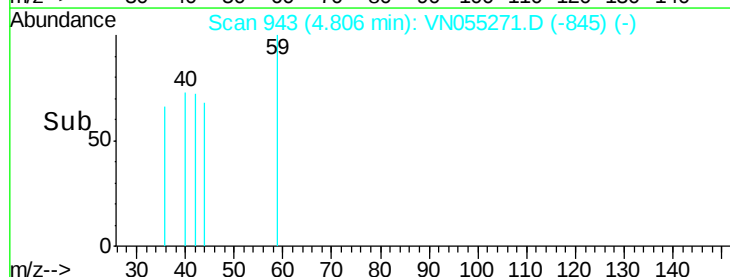
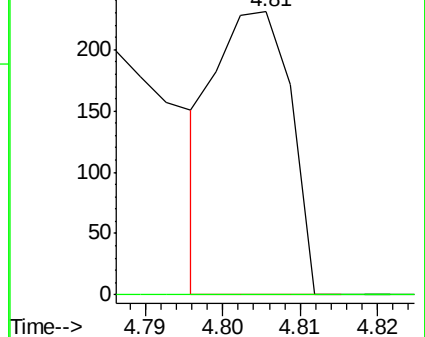
59 100

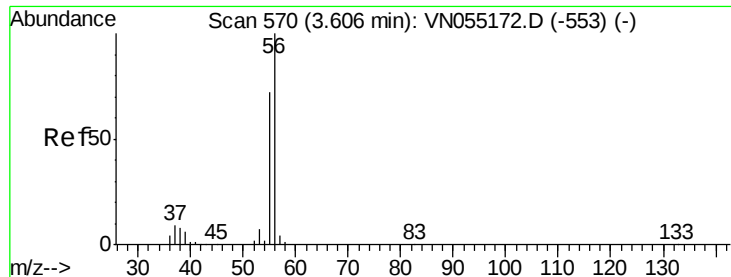
57 0.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

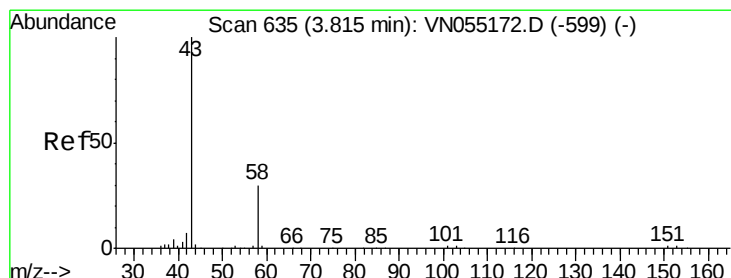
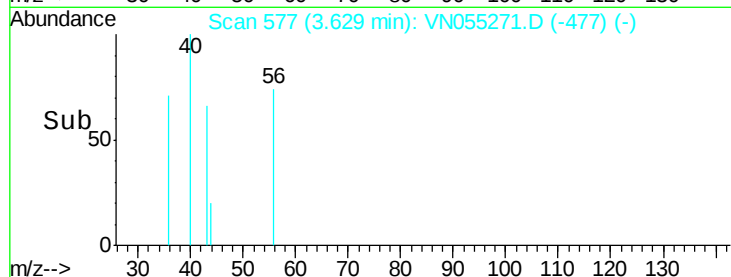
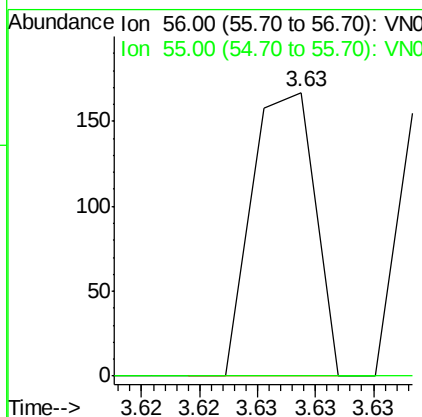
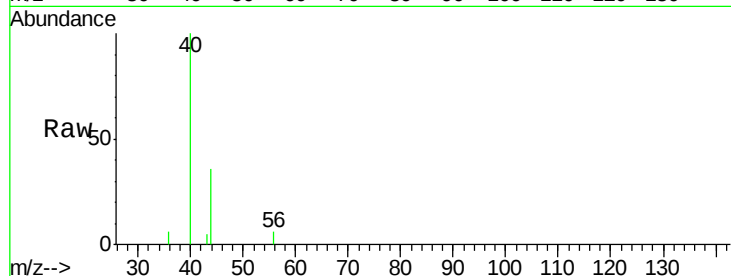




#13
Acrolein
Concen: 9.647 ug/l
RT: 3.63 min Scan# 577
Delta R.T. 0.02 min
Lab File: VN055271.D
Acq: 26 Apr 2019 13:09

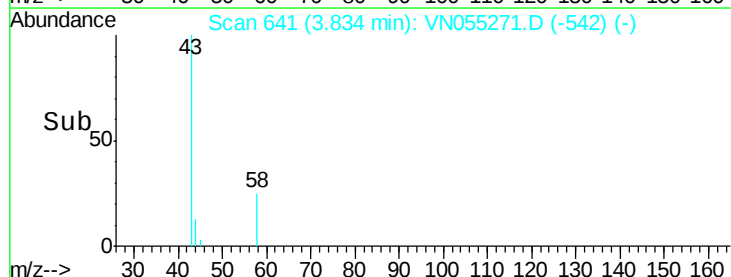
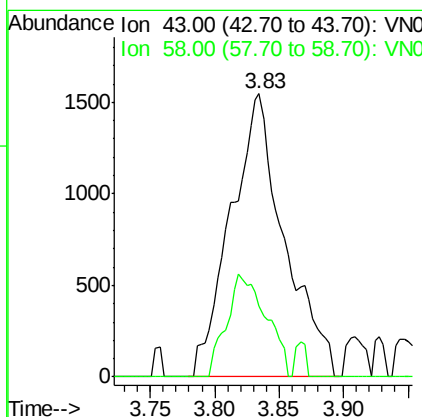
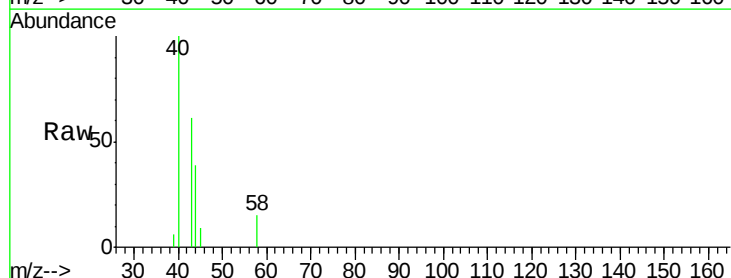
Instrument :
MSVOA_N
ClientSampleId :
MW-18

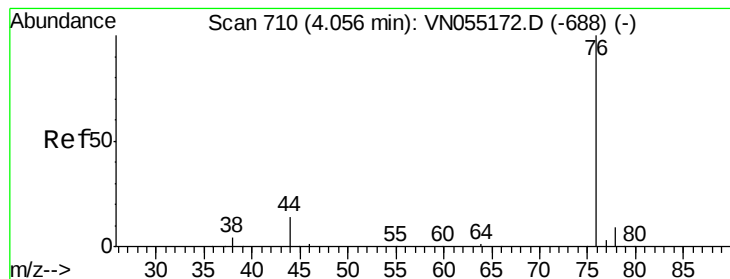
Tot Ion: 56 Resp: 63
Ion Ratio Lower Upper
56 100
55 0.0 57.4 86.0#



#16
Acetone
Concen: 2.699 ug/l
RT: 3.83 min Scan# 641
Delta R.T. 0.02 min
Lab File: VN055271.D
Acq: 26 Apr 2019 13:09

Tgt Ion: 43 Resp: 4477
Ion Ratio Lower Upper
43 100
58 24.9 23.8 35.8





#17

Carbon Disulfide

Concen: 0.397 ug/l

RT: 4.05 min Scan# 708

Delta R.T. -0.01 min

Lab File: VN055271.D

Acq: 26 Apr 2019 13:09

Instrument :

MSVOA_N

ClientSampled :

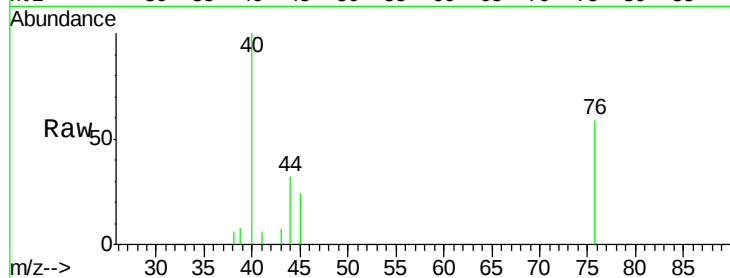
MW-18

Tot Ion: 76 Resp: 4231

Ion Ratio Lower Upper

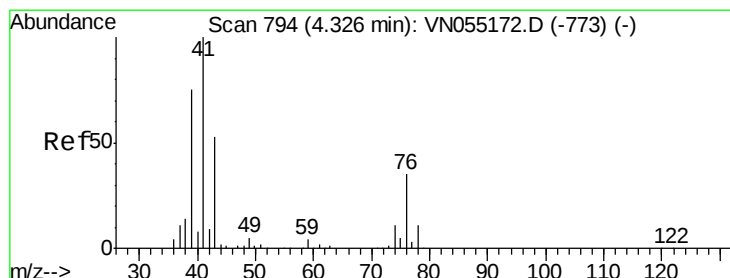
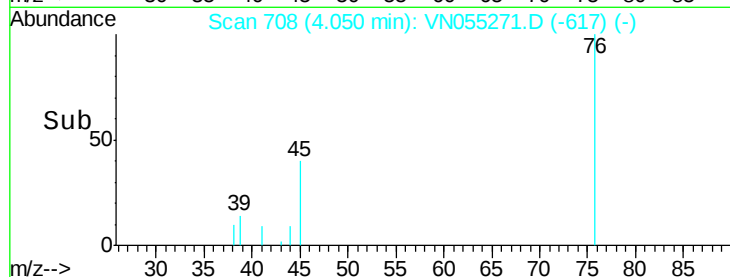
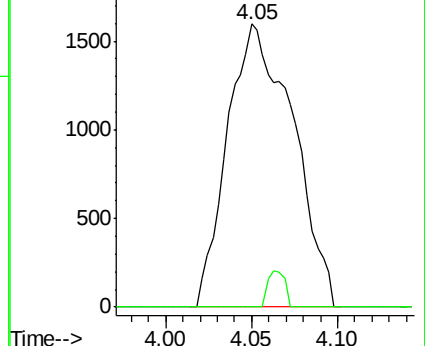
76 100

78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.35 min Scan# 800

Delta R.T. 0.02 min

Lab File: VN055271.D

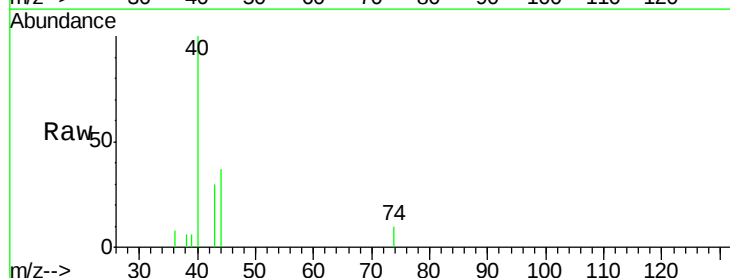
Acq: 26 Apr 2019 13:09

Tgt Ion: 43 Resp: 2506

Ion Ratio Lower Upper

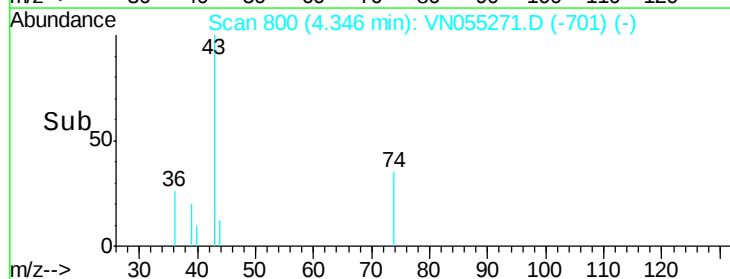
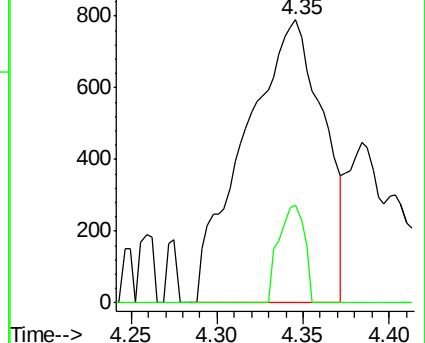
43 100

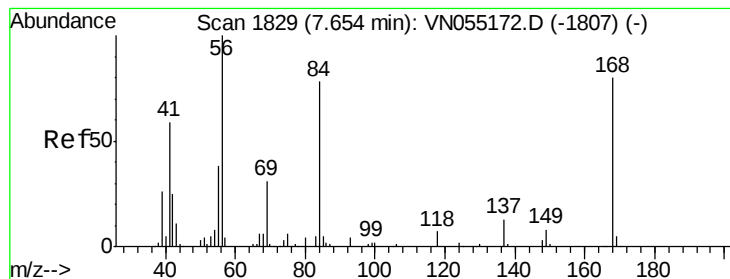
74 11.4 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN055271.D

Acq: 26 Apr 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

MW-18

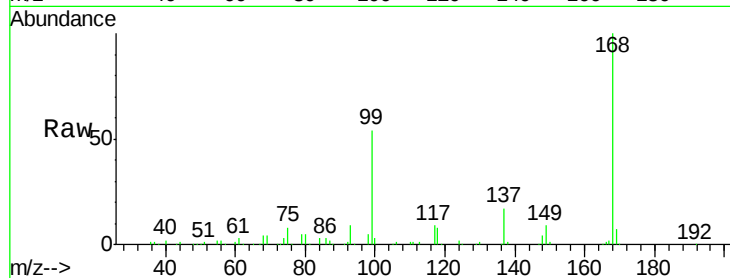
Tot Ion: 56 Resp: 8312

Ion Ratio Lower Upper

56 100

69 167.3 24.6 37.0#

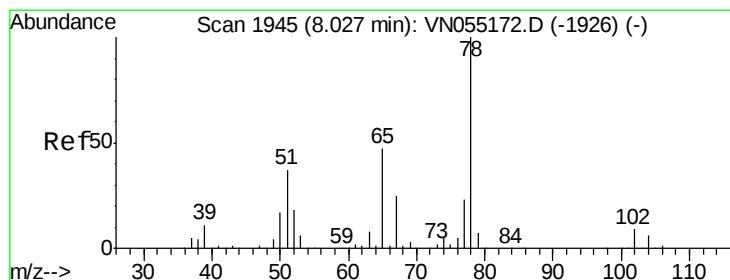
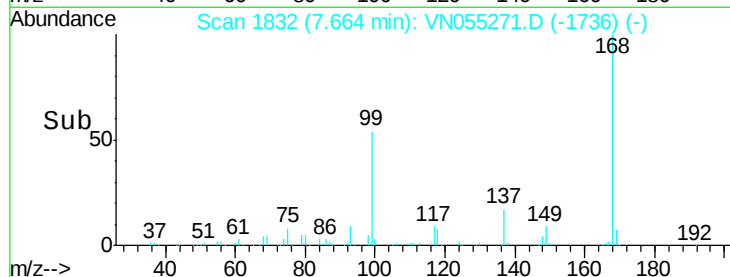
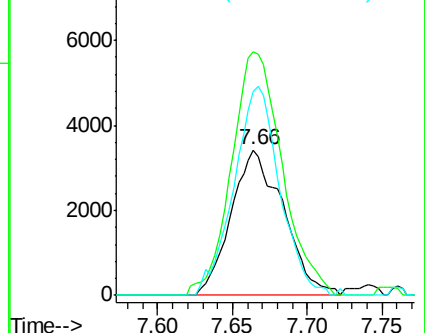
84 140.5 61.4 92.2#



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: 50.696 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN055271.D

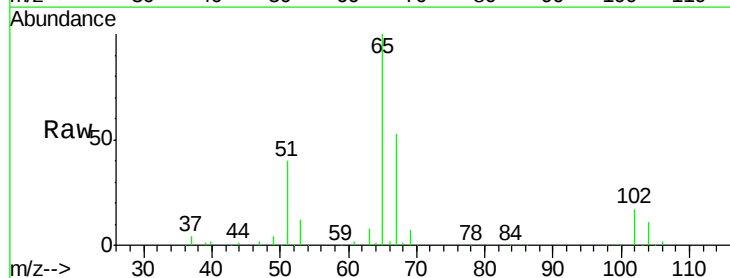
Acq: 26 Apr 2019 13:09

Tgt Ion: 65 Resp: 254387

Ion Ratio Lower Upper

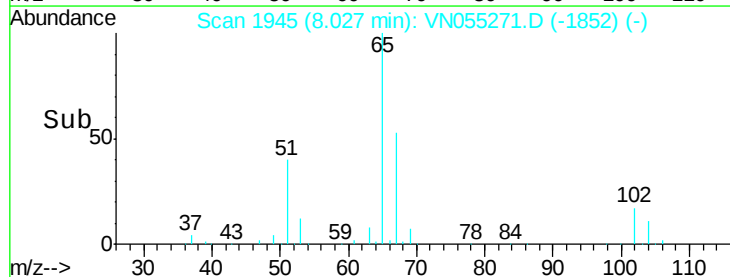
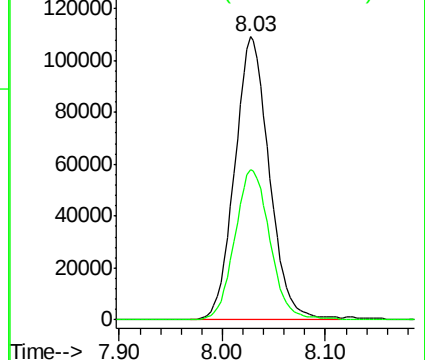
65 100

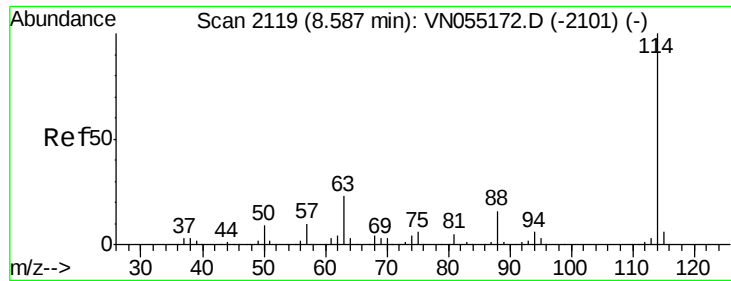
67 54.2 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

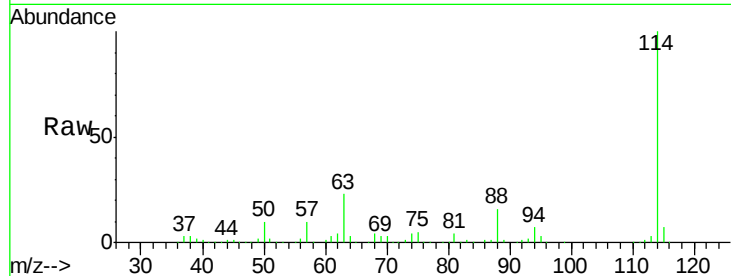




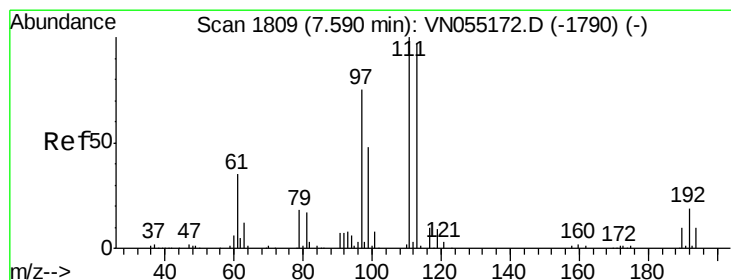
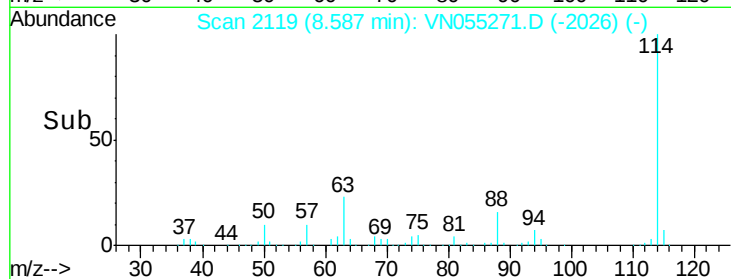
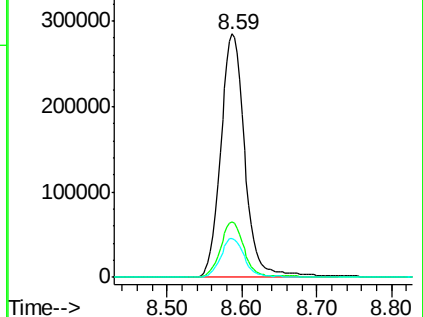
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055271.D
 Acq: 26 Apr 2019 13:09

Instrument :
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Tot Ion:114 Resp: 637165
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 45.2
 88 16.0 0.0 32.8

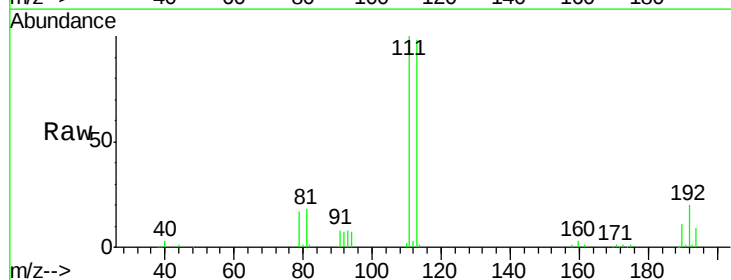


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

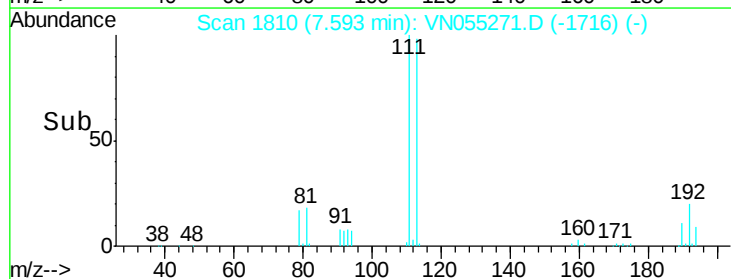
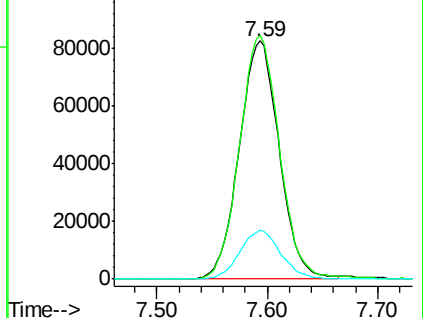


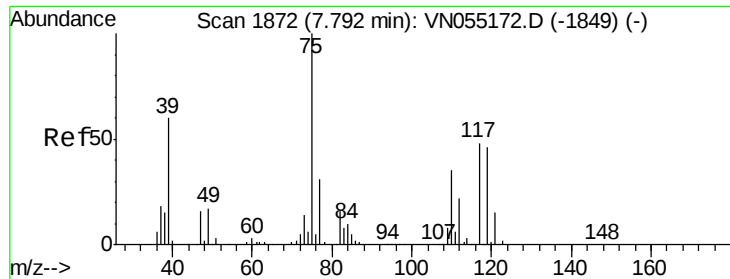
#35
 Dibromofluoromethane
 Concen: 47.931 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN055271.D
 Acq: 26 Apr 2019 13:09

Tgt Ion:113 Resp: 207471
 Ion Ratio Lower Upper
 113 100
 111 102.8 81.0 121.4
 192 21.0 16.2 24.4



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: 4.783 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN055271.D

Acq: 26 Apr 2019 13:09

Instrument :

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ClientSampleId :

MW-18

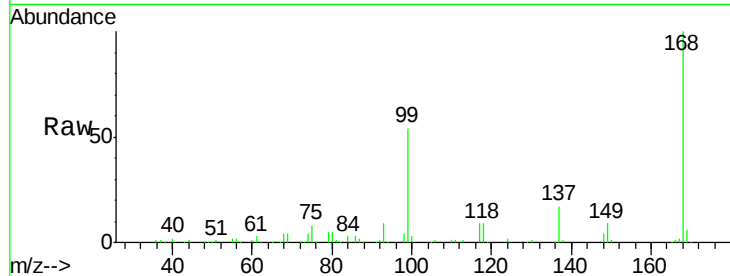
Tot Ion: 75 Resp: 28286

Ion Ratio Lower Upper

75 100

110 9.0 17.1 51.2#

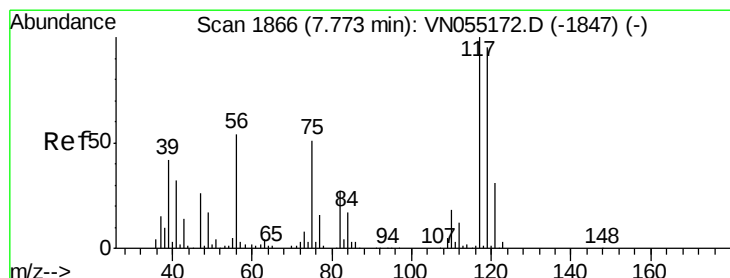
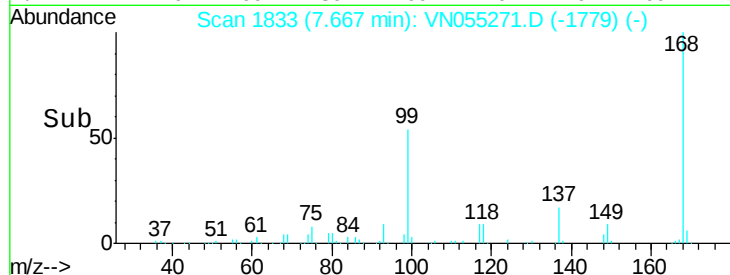
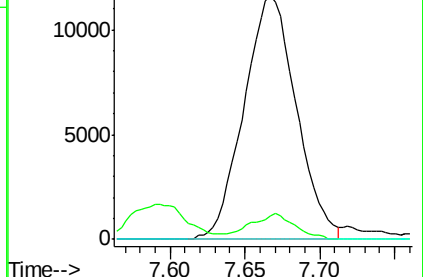
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VN055271.D (-1779) (-)

Ion 109.90 (109.60 to 110.60): VN055271.D (-1779) (-)

Ion 76.90 (76.60 to 77.60): VN055271.D (-1779) (-)



#38

Carbon Tetrachloride

Concen: 6.492 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN055271.D

Acq: 26 Apr 2019 13:09

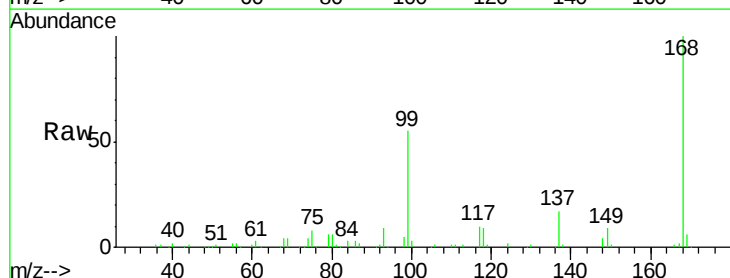
Tgt Ion: 117 Resp: 35953

Ion Ratio Lower Upper

117 100

119 5.2 76.0 114.0#

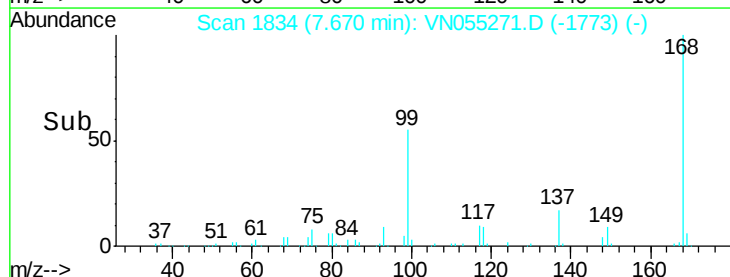
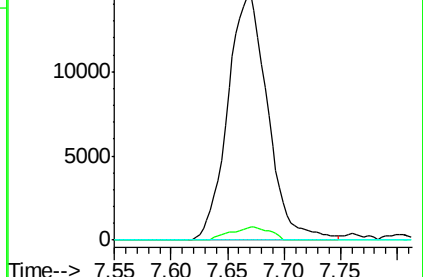
121 0.0 24.6 36.8#

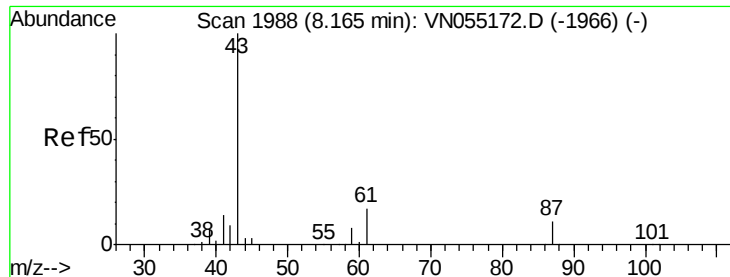


Abundance Ion 116.80 (116.50 to 117.50): VN055271.D (-1773) (-)

Ion 118.80 (118.50 to 119.50): VN055271.D (-1773) (-)

Ion 120.80 (120.50 to 121.50): VN055271.D (-1773) (-)





#43

Isopropyl Acetate

Concen: 2.229 ug/l

RT: 8.27 min Scan# 2019

Delta R.T. 0.10 min

Lab File: VN055271.D

Acq: 26 Apr 2019 13:09

Instrument :

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ClientSampleId :

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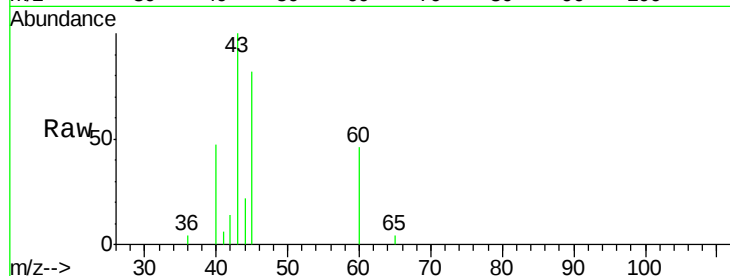
Tot Ion: 43 Resp: 17226

Ion Ratio Lower Upper

43 100

61 0.0 20.6 30.8#

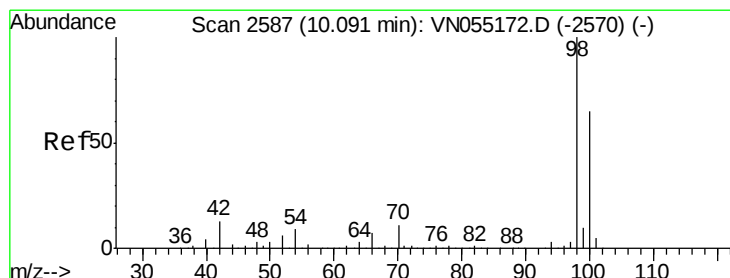
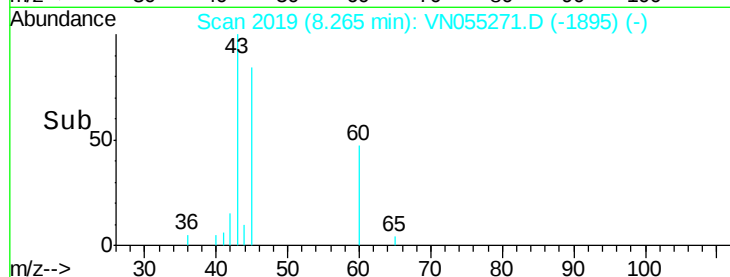
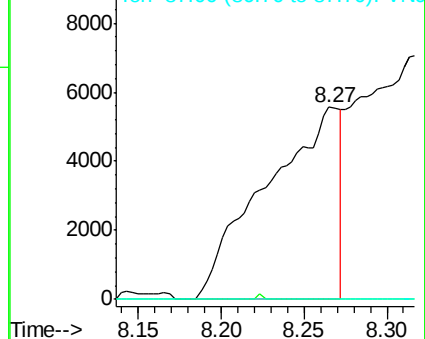
87 0.0 8.8 13.2#



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



#50

Toluene-d8

Concen: 48.595 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055271.D

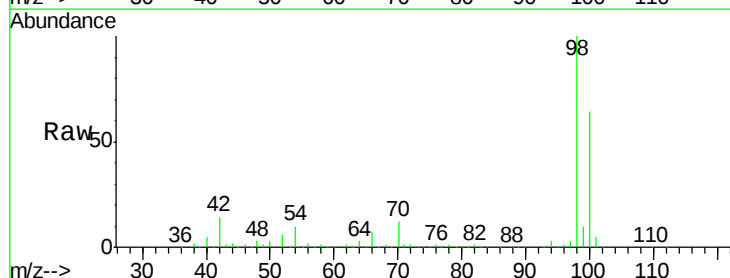
Acq: 26 Apr 2019 13:09

Tgt Ion: 98 Resp: 779372

Ion Ratio Lower Upper

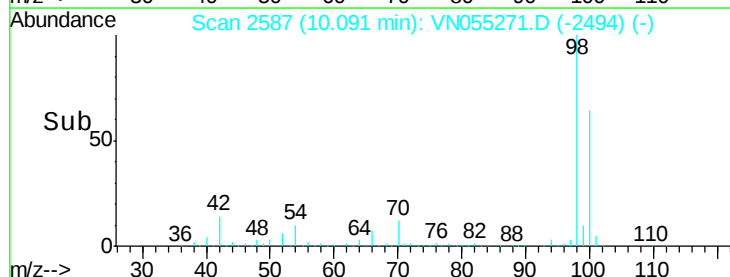
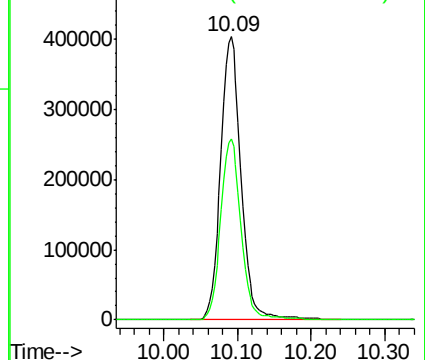
98 100

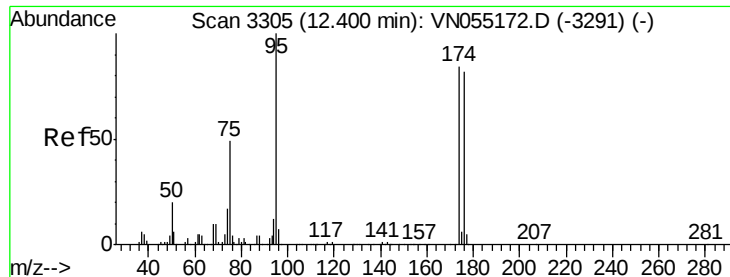
100 63.8 51.8 77.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: 44.940 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055271.D

Acq: 26 Apr 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

MW-18

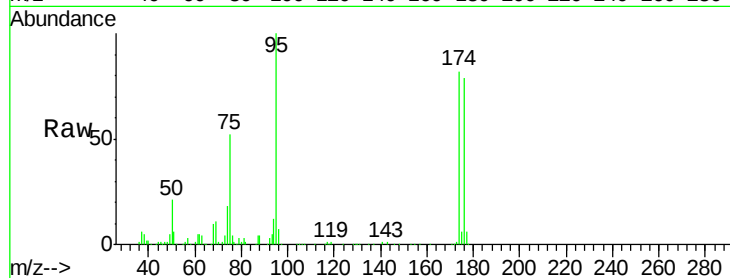
Tot Ion: 95 Resp: 228241

Ion Ratio Lower Upper

95 100

174 82.8 0.0 168.4

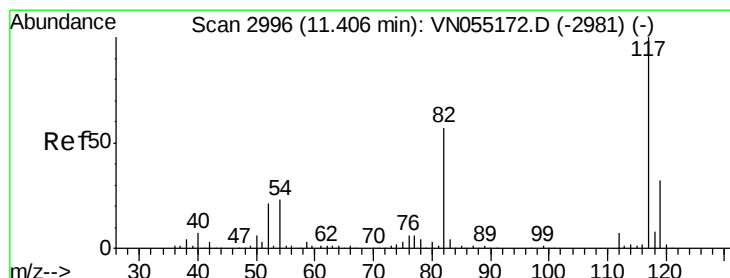
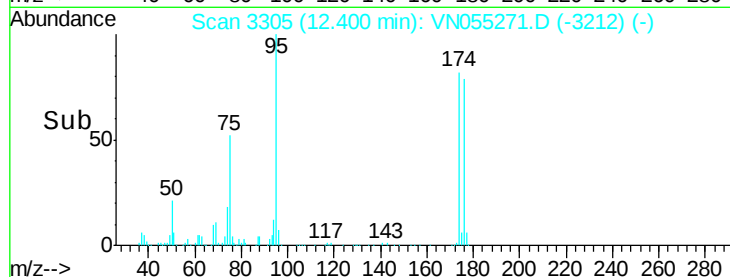
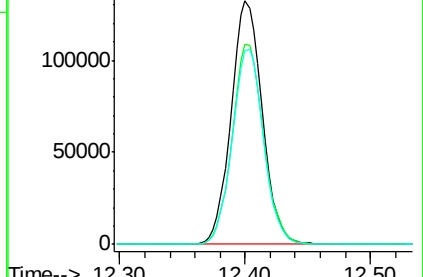
176 80.5 0.0 164.0



Abundance Ion 94.90 (94.60 to 95.60): VN055271.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055271.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055271.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055271.D

Acq: 26 Apr 2019 13:09

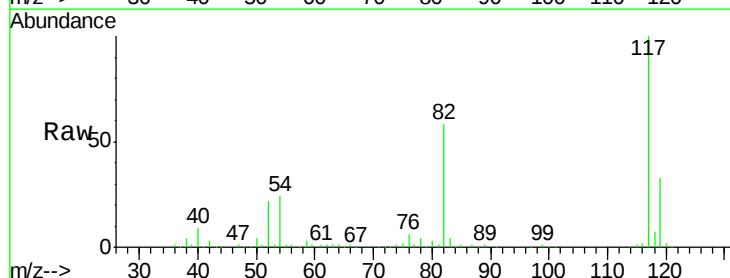
Tgt Ion: 117 Resp: 558368

Ion Ratio Lower Upper

117 100

82 57.6 45.7 68.5

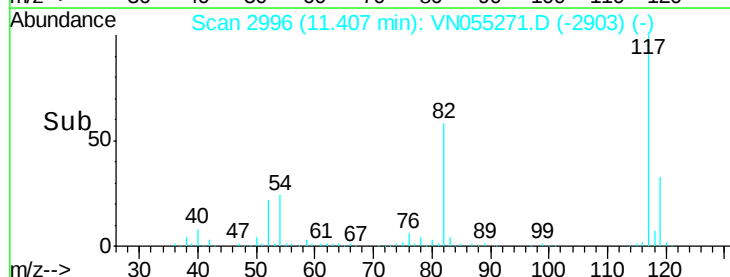
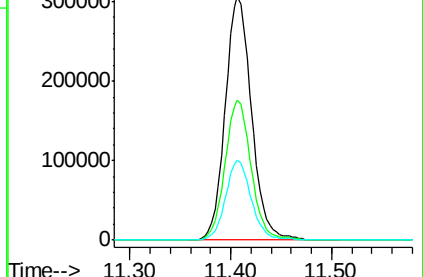
119 32.7 25.4 38.2

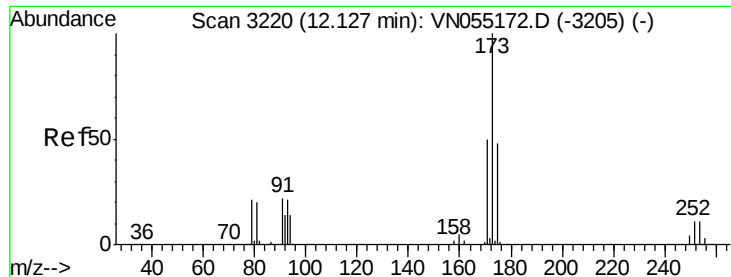


Abundance Ion 116.90 (116.60 to 117.60): VN055271.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN055271.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN055271.D (-2981) (-)





#71

Bromoform

Concen: 0.714 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN055271.D

Acq: 26 Apr 2019 13:09

Instrument :

MSVOA_N

ClientSampled :

MW-18

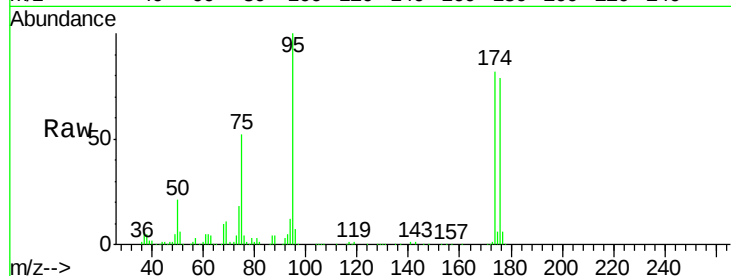
Tot Ion:173 Resp: 1800

Ion Ratio Lower Upper

173 100

175 688.1 23.8 71.2#

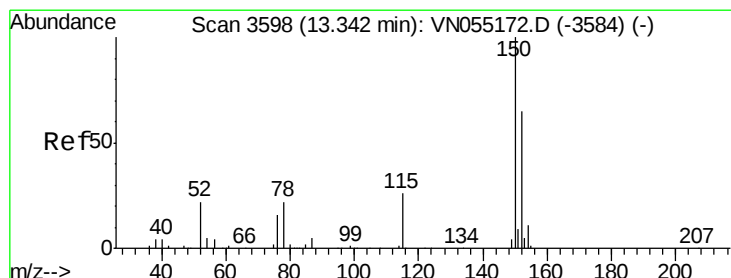
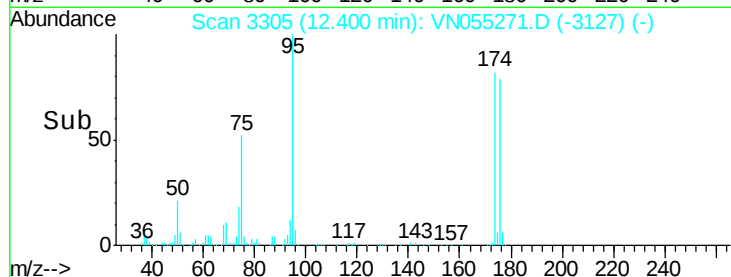
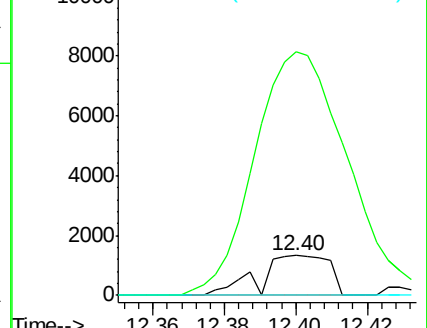
254 0.0 0.1 0.1#



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: VN055271.D

Acq: 26 Apr 2019 13:09

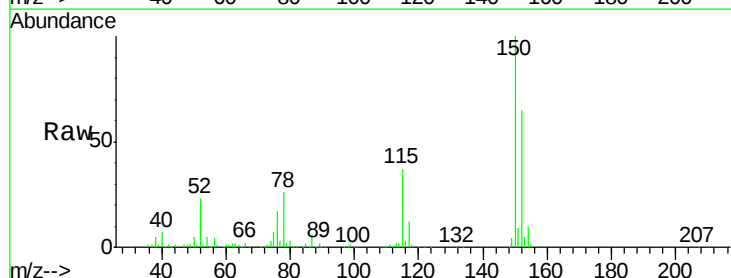
Tgt Ion:152 Resp: 148436

Ion Ratio Lower Upper

152 100

115 58.5 28.9 86.7

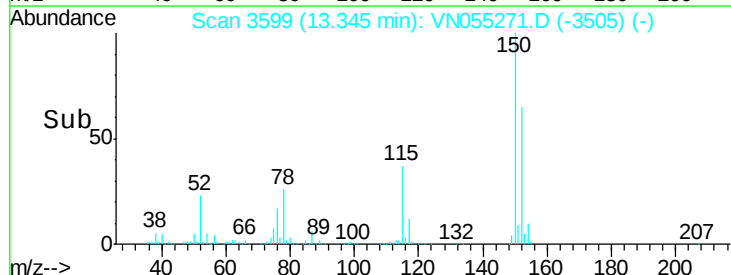
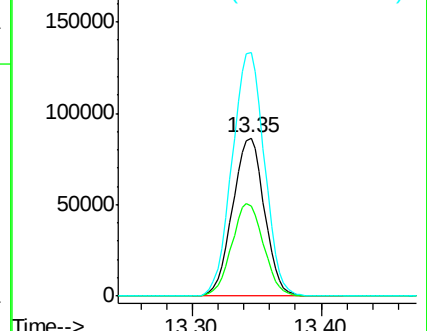
150 155.9 0.0 346.6

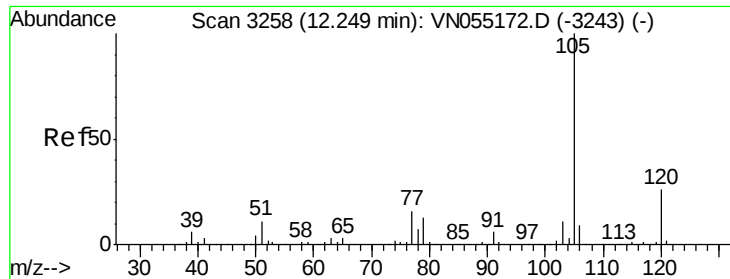


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN055271.D

Acq: 26 Apr 2019 13:09

Instrument :

MSVOA_N

ClientSampled :

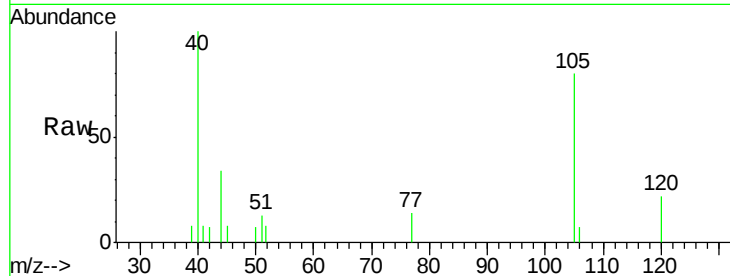
MW-18

Tot Ion:105 Resp: 2859

Ion Ratio Lower Upper

105 100

120 25.1 13.1 39.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

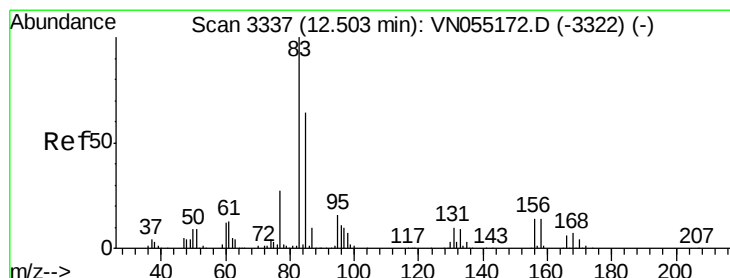
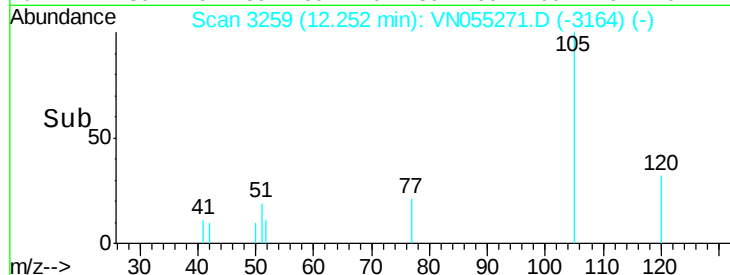
1500

1000

500

0

Time--> 12.20 12.25 12.30



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.48 min Scan# 3331

Delta R.T. -0.02 min

Lab File: VN055271.D

Acq: 26 Apr 2019 13:09

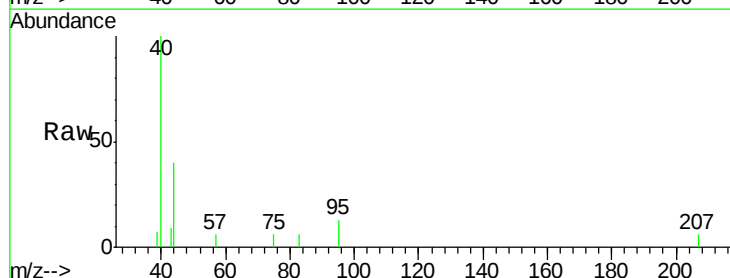
Tgt Ion: 83 Resp: 91

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 0.0 32.1 96.3#



Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V

12.48

200

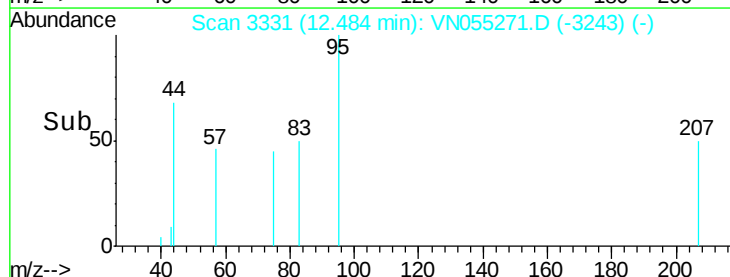
150

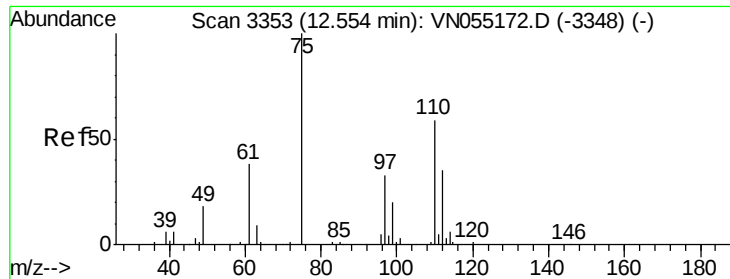
100

50

0

Time--> 12.47 12.48 12.49





#76

1,2,3-Trichloropropane

Concen: 39.491 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055271.D

Acq: 26 Apr 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

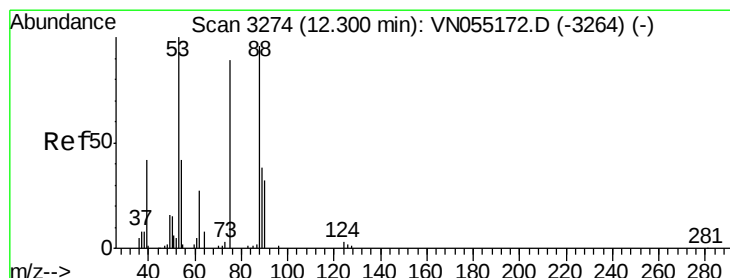
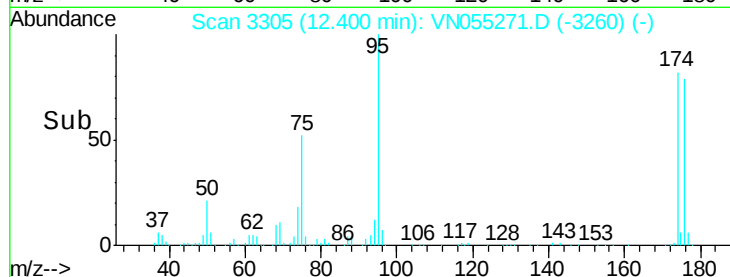
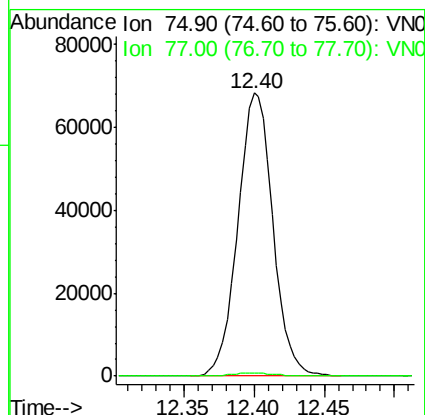
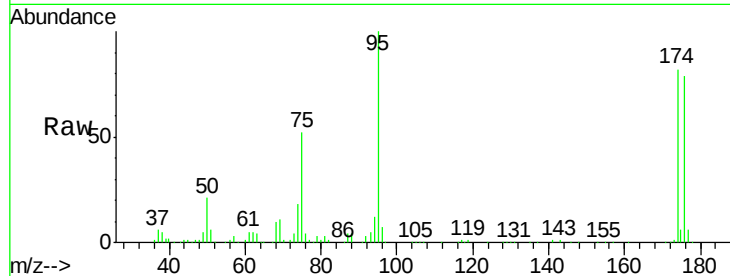
MW-18

Tot Ion: 75 Resp: 118923

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 149.705 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055271.D

Acq: 26 Apr 2019 13:09

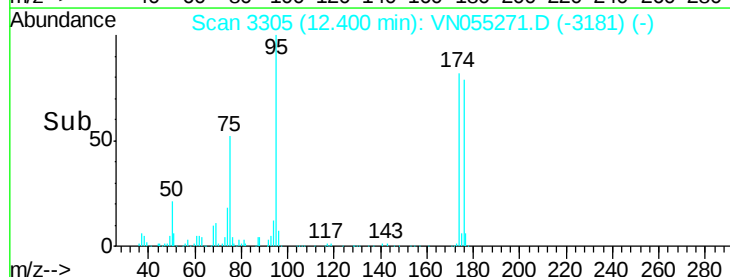
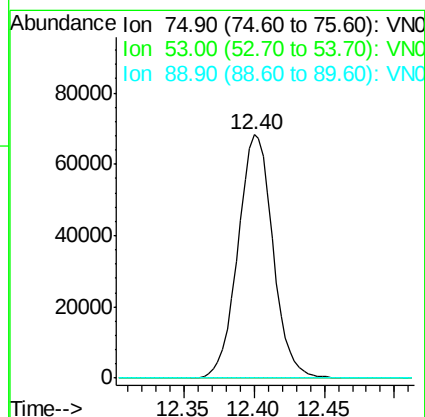
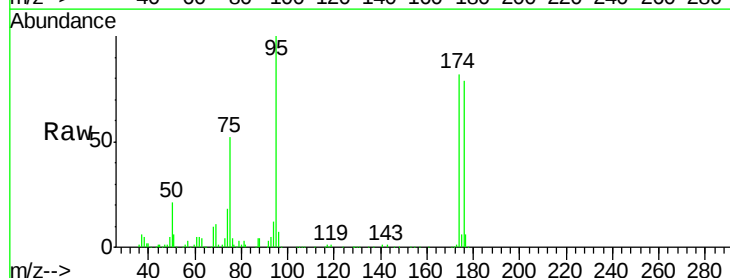
Tgt Ion: 75 Resp: 118923

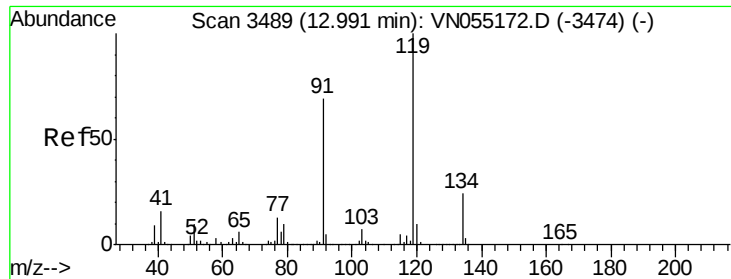
Ion Ratio Lower Upper

75 100

53 0.1 90.1 135.1#

89 0.0 36.7 55.1#

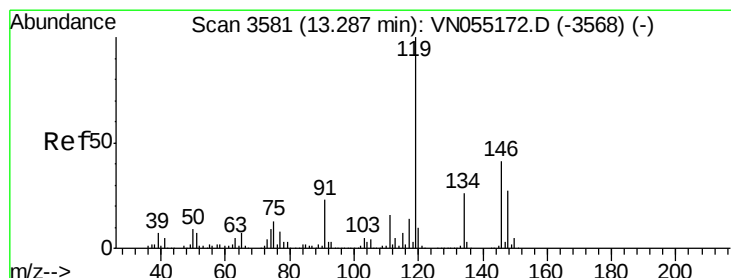
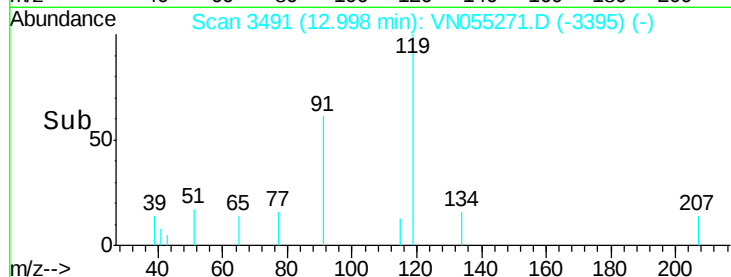
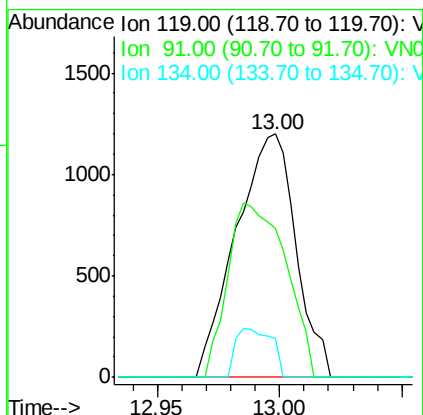
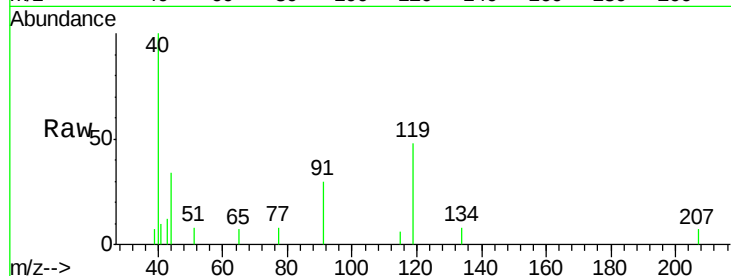




#83
tert-Butylbenzene
Concen: Below Cal
RT: 13.00 min Scan# 3491
Delta R.T. 0.01 min
Lab File: VN055271.D
Acq: 26 Apr 2019 13:09

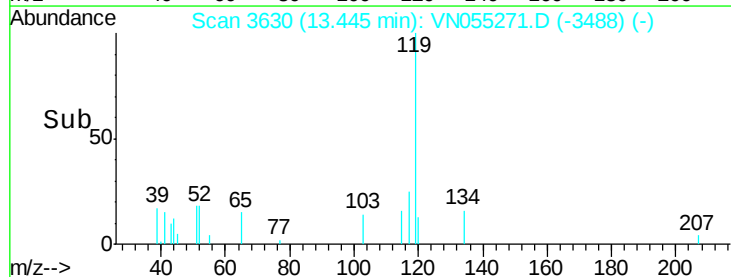
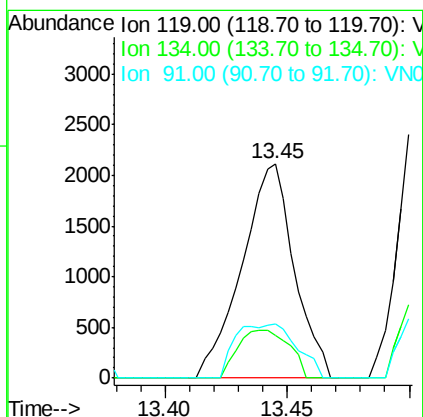
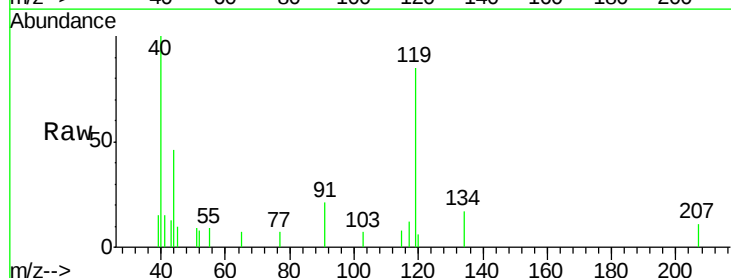
Instrument :
MSVOA_N
ClientSampleId :
MW-18

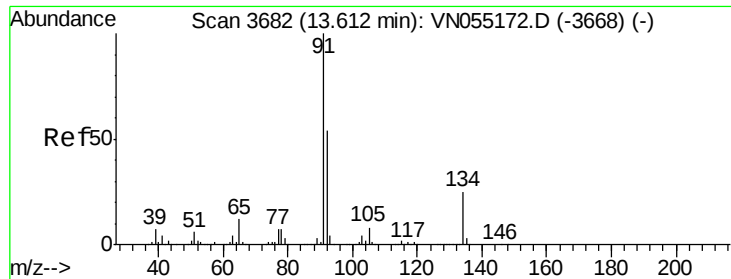
Tot Ion:119 Resp: 2042
Ion Ratio Lower Upper
119 100
91 69.8 33.8 101.3
134 12.0 13.2 39.5#



#86
p-Isopropyltoluene
Concen: 0.302 ug/l
RT: 13.45 min Scan# 3630
Delta R.T. 0.16 min
Lab File: VN055271.D
Acq: 26 Apr 2019 13:09

Tgt Ion:119 Resp: 3127
Ion Ratio Lower Upper
119 100
134 21.9 13.1 39.3
91 29.5 11.8 35.3





#89

n-Butylbenzene

Concen: 0.243 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN055271.D

Acq: 26 Apr 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

MW-18

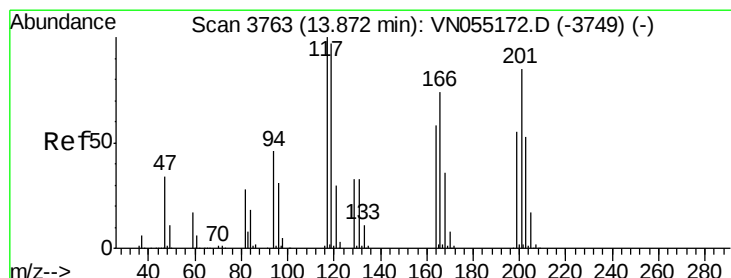
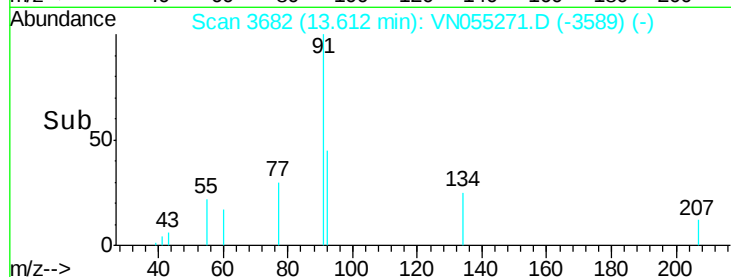
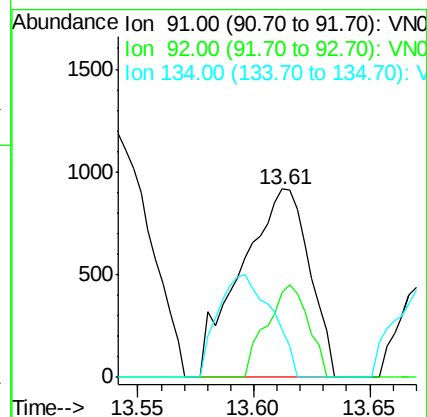
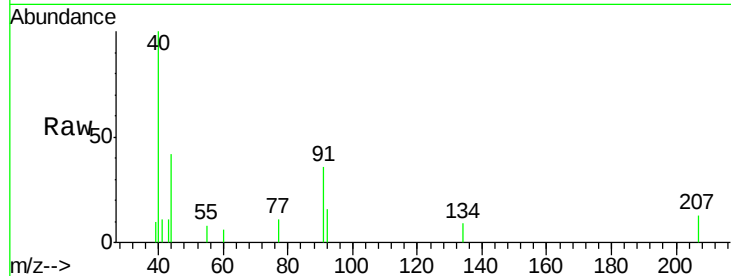
Tot Ion: 91 Resp: 1869

Ion Ratio Lower Upper

91 100

92 30.0 26.4 79.2

134 43.0 12.8 38.4#



#90

Hexachloroethane

Concen: 0.544 ug/l

RT: 13.94 min Scan# 3785

Delta R.T. 0.07 min

Lab File: VN055271.D

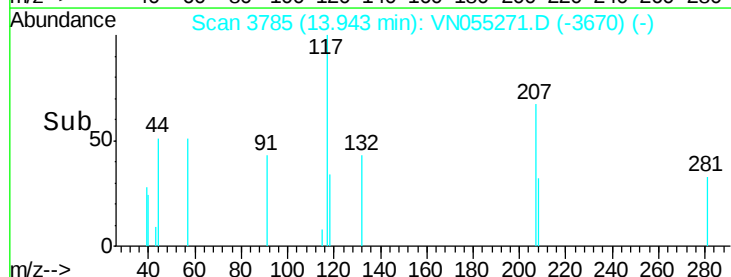
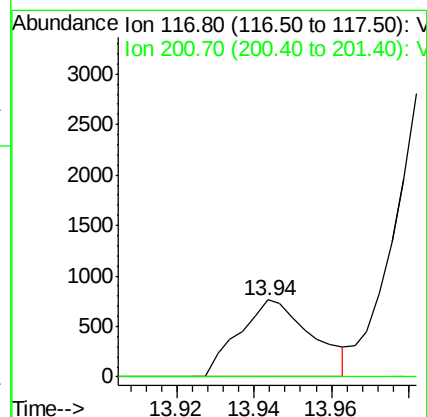
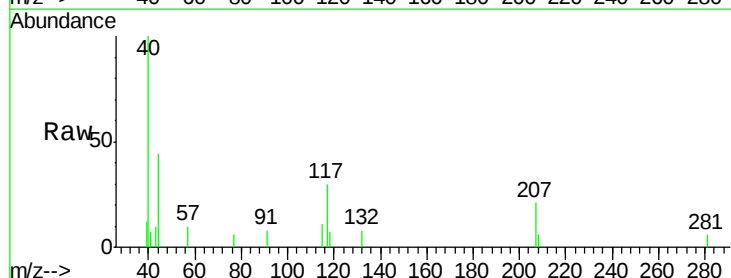
Acq: 26 Apr 2019 13:09

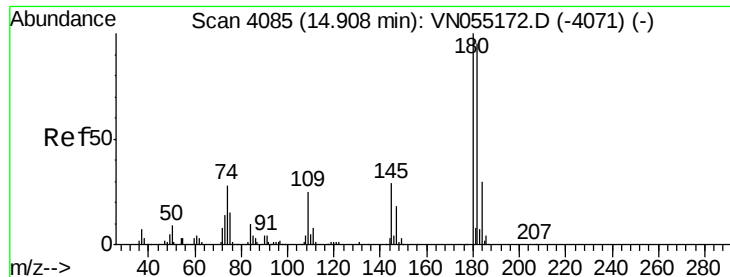
Tgt Ion: 117 Resp: 1000

Ion Ratio Lower Upper

117 100

201 0.0 43.1 129.4#

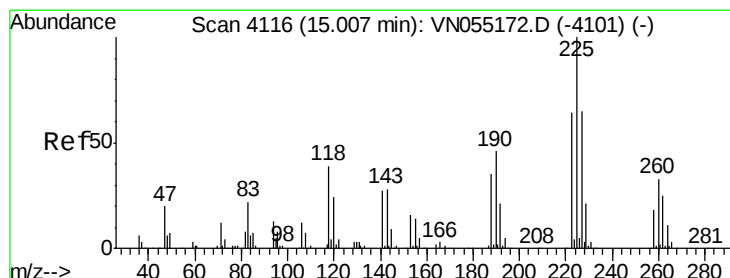
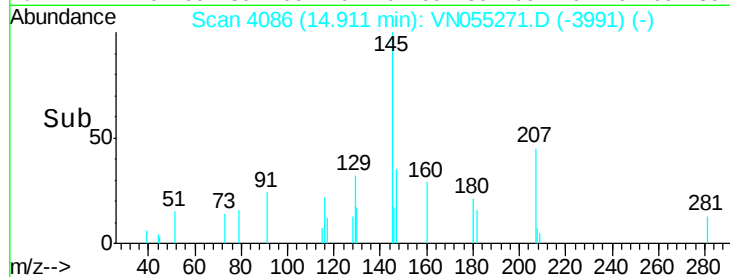
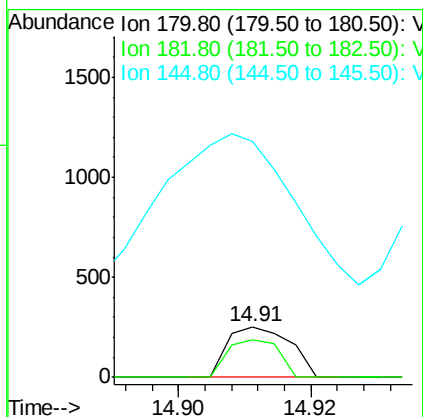
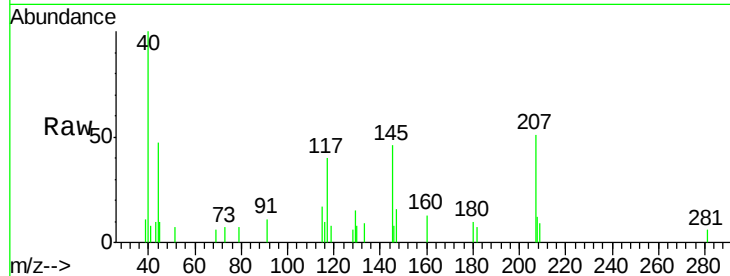




#93
 1,2,4-Trichlorobenzene
 Concen: 2.809 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN055271.D
 Acq: 26 Apr 2019 13:09

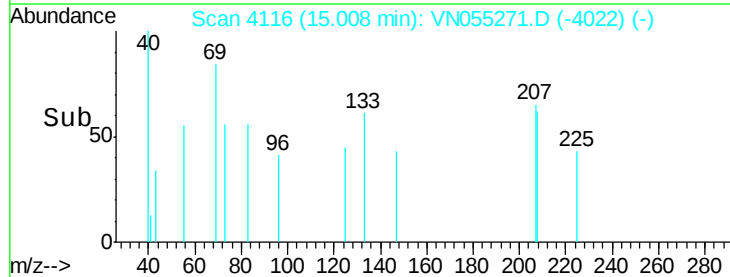
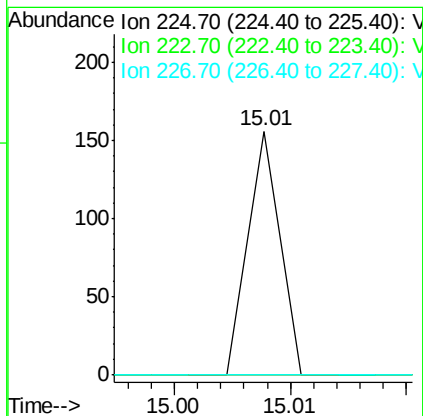
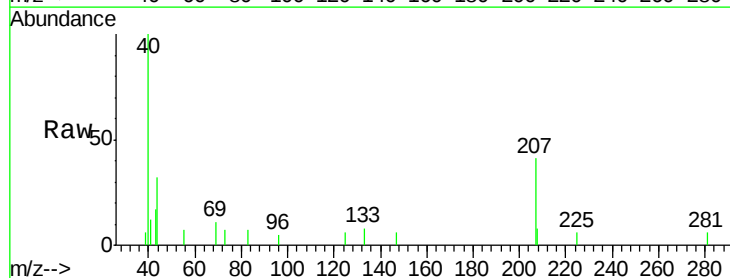
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-18

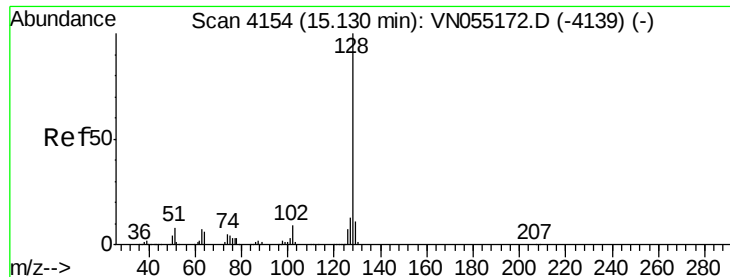
Tot Ion:180 Resp: 164
 Ion Ratio Lower Upper
 180 100
 182 61.0 47.8 143.4
 145 1626.8 14.5 43.5#



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055271.D
 Acq: 26 Apr 2019 13:09

Tgt Ion:225 Resp: 30
 Ion Ratio Lower Upper
 225 100
 223 0.0 32.2 96.6#
 227 0.0 32.6 98.0#





#95

Naphthalene

Concen: 3.646 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN055271.D

Acq: 26 Apr 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

MW-18

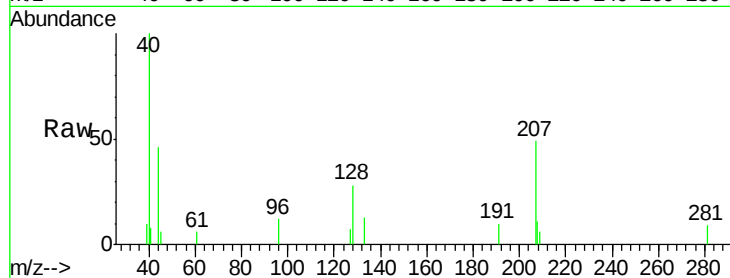
Tot Ion:128 Resp: 1308

Ion Ratio Lower Upper

128 100

127 18.7 10.3 15.5#

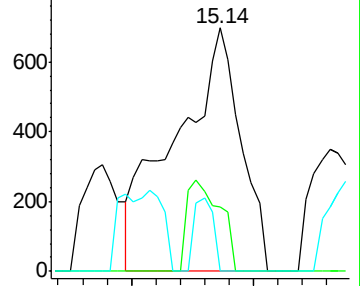
129 8.5 8.8 13.2#



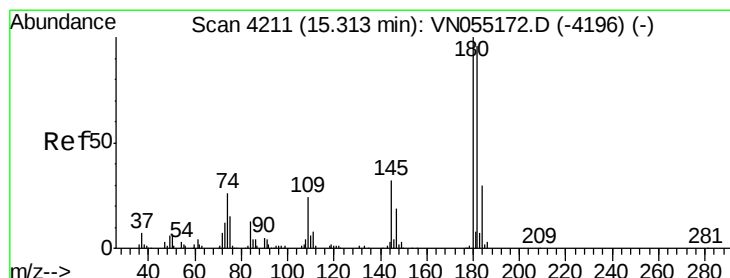
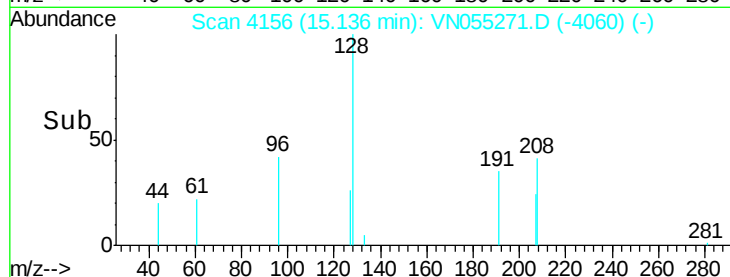
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 2.224 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055271.D

Acq: 26 Apr 2019 13:09

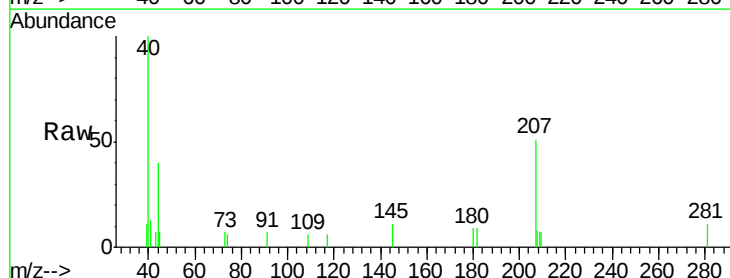
Tgt Ion:180 Resp: 228

Ion Ratio Lower Upper

180 100

182 94.3 47.2 141.6

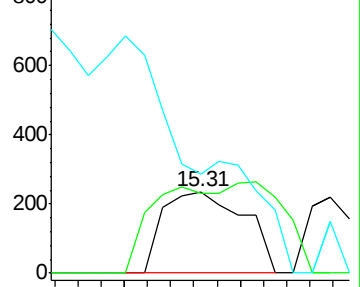
145 0.0 15.4 46.1#



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



Time-->

