

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081719\
 Data File : BF116376.D
 Acq On : 18 Aug 2019 4:06
 Operator : HP/JU
 Sample : K4384-04DL 20X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 19 07:50:35 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 07 11:13:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	122644	20.00	ng	-0.04
21) Naphthalene-d8	8.09	136	491906	20.00	ng	-0.04
39) Acenaphthene-d10	9.84	164	243959	20.00	ng	-0.05
64) Phenanthrene-d10	11.33	188	367971	20.00	ng	-0.04
76) Chrysene-d12	13.97	240	234711	20.00	ng	-0.04
87) Perylene-d12	15.43	264	269672	20.00	ng	-0.05

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.48	112	30112	4.11	ng	0.01
7) Phenol-d6	6.49	99	50380	5.45	ng	0.00
23) Nitrobenzene-d5	7.40	82	29670	3.48	ng	-0.02
42) 2,4,6-Tribromophenol	10.65	330	7719	3.26	ng	-0.03
45) 2-Fluorobiphenyl	9.16	172	62044	4.76	ng	-0.04
79) Terphenyl-d14	12.90	244	49189	4.42	ng	-0.05

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
51) 2,6-Dinitrotoluene	9.84	165	31709	8.784	ng	# 28
57) 2,4-Dinitrotoluene	9.84	165	31709	6.598	ng	# 20
71) Phenanthrene	11.35	178	105369	5.601	ng	97
75) Fluoranthene	12.54	202	127601	6.479	ng	99
77) Benzidine	12.66	184	103886	13.101	ng	98
78) Pyrene	12.77	202	118141	6.677	ng	98
81) Benzo(a)anthracene	13.96	228	54474	3.631	ng	97
83) Chrysene	14.00	228	49745	3.415	ng	98
86) Indeno(1,2,3-cd)pyrene	16.90	276	30706	2.510	ng	96
88) Benzo(b)fluoranthene	15.01	252	85072	5.456	ng	98
89) Benzo(k)fluoranthene	15.01	252	85072	5.601	ng	# 98
90) Benzo(a)pyrene	15.37	252	48156	3.455	ng	96
92) Benzo(a,h,i)perylene	17.34	276	29226	2.466	ng	97

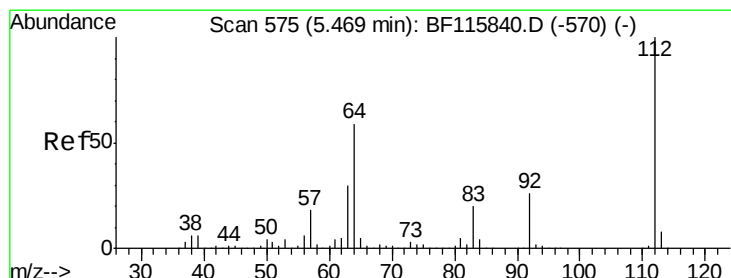
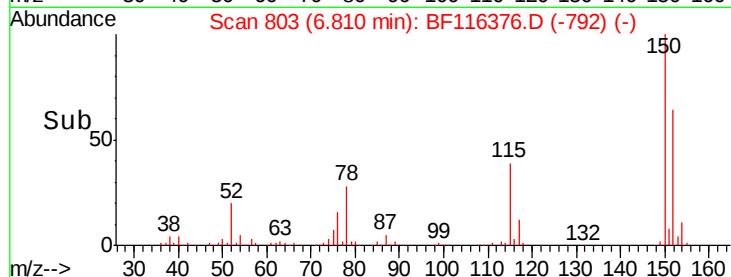
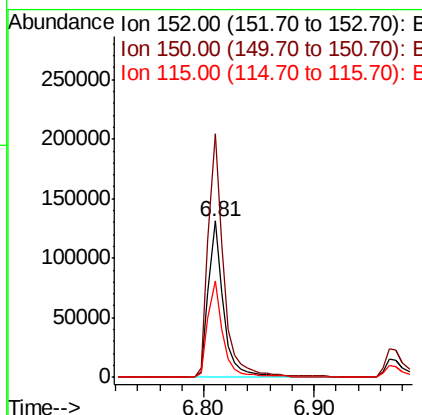
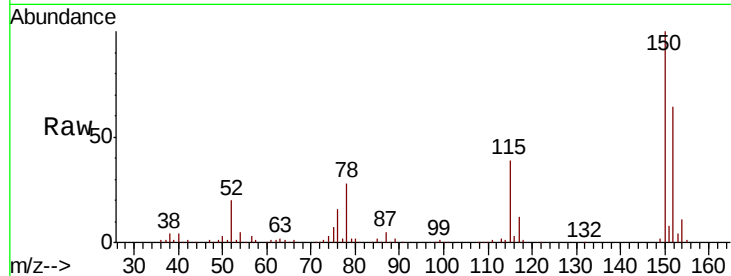
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.81 min Scan# 803
 Delta R.T. -0.04 min
 Lab File: BF116376.D
 Acq: 18 Aug 2019 4:06

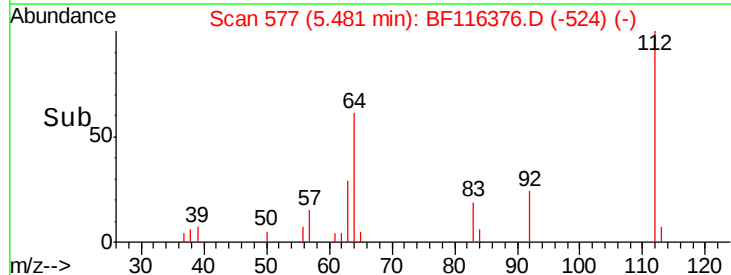
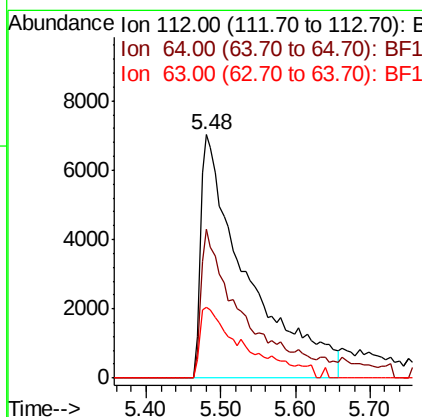
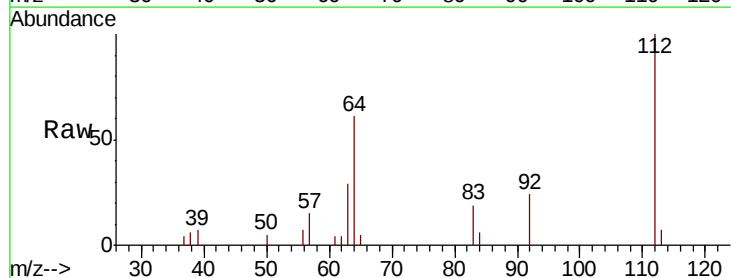
Instrument :
 BNA_F
 ClientSampled :

Tot Ion:152 Resp: 122644
 Ion Ratio Lower Upper
 152 100
 150 155.9 126.2 189.2
 115 61.4 49.9 74.9



#5
 2-Fluorophenol
 Concen: 4.110 ng
 RT: 5.48 min Scan# 577
 Delta R.T. 0.01 min
 Lab File: BF116376.D
 Acq: 18 Aug 2019 4:06

Tgt Ion:112 Resp: 30112
 Ion Ratio Lower Upper
 112 100
 64 61.0 45.4 68.2
 63 29.1 23.7 35.5





#7

Phenol-d6

Concen: 5.450 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.00 min

Lab File: BF116376.D

Acq: 18 Aug 2019 4:06

Instrument :

BNA_F

ClientSampleId :

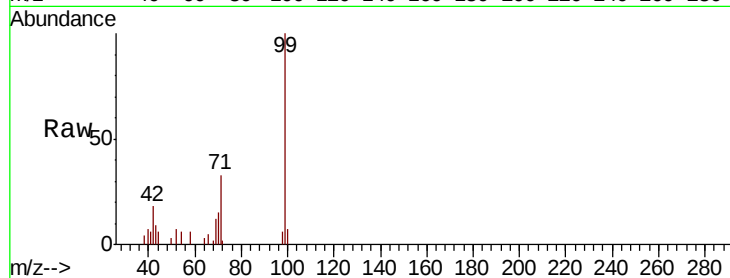
Tot Ion: 99 Resp: 50380

Ion Ratio Lower Upper

99 100

42 18.4 13.8 20.8

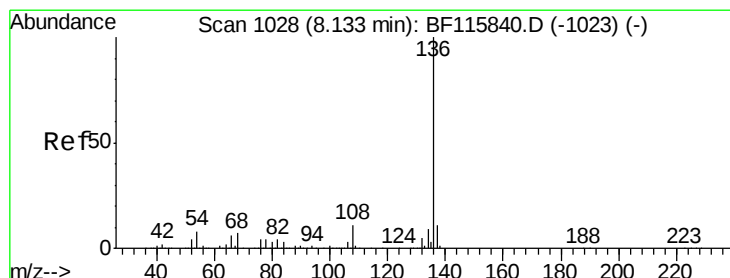
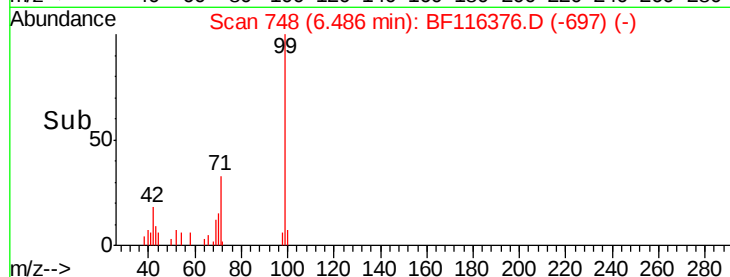
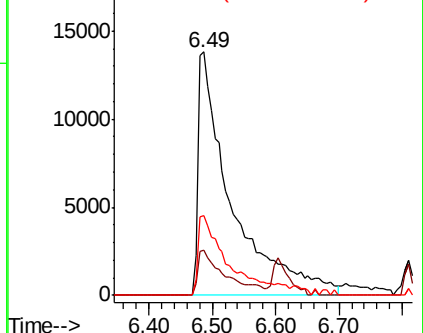
71 32.7 27.3 40.9



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1021

Delta R.T. -0.04 min

Lab File: BF116376.D

Acq: 18 Aug 2019 4:06

Tgt Ion: 136 Resp: 491906

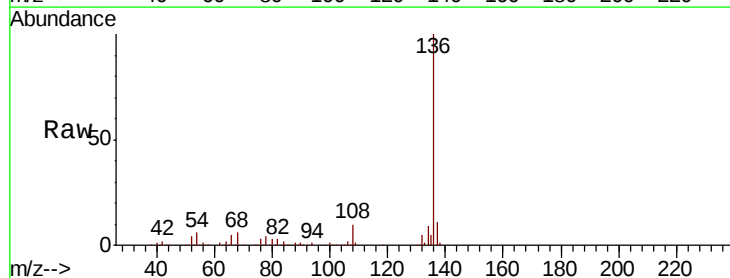
Ion Ratio Lower Upper

136 100

137 11.0 9.0 13.4

54 6.5 5.8 8.6

68 5.8 5.2 7.8

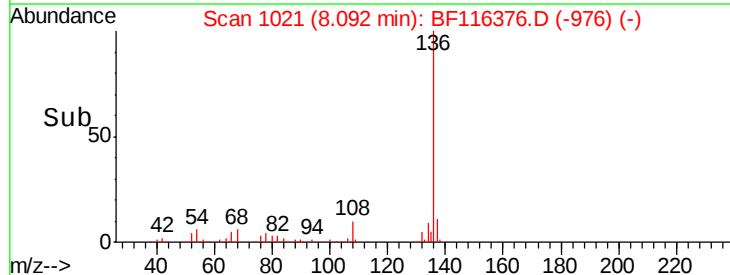
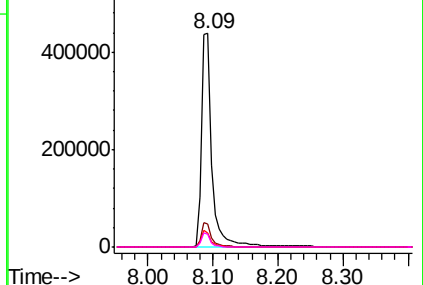


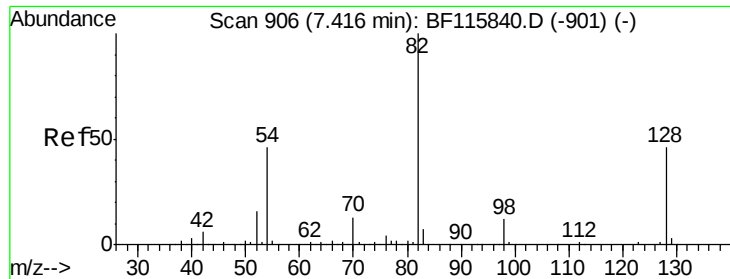
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

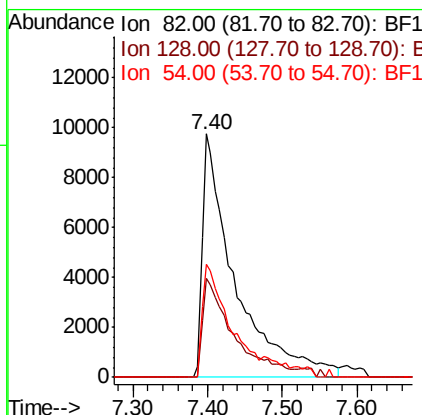
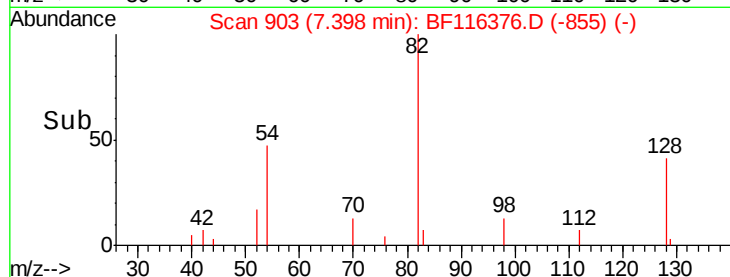
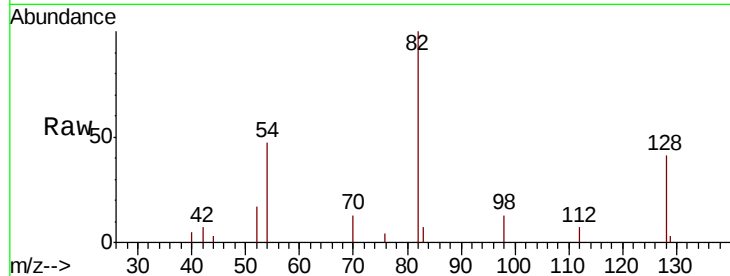




#23
 Nitrobenzene-d5
 Concen: 3.482 ng
 RT: 7.40 min Scan# 903
 Delta R.T. -0.02 min
 Lab File: BF116376.D
 Acq: 18 Aug 2019 4:06

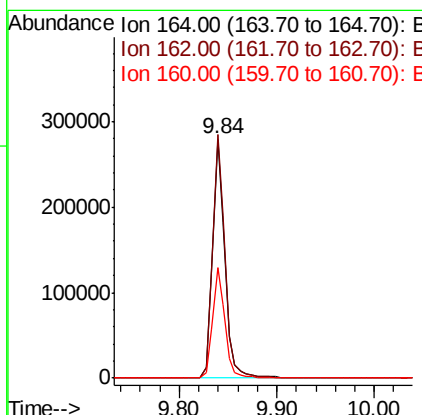
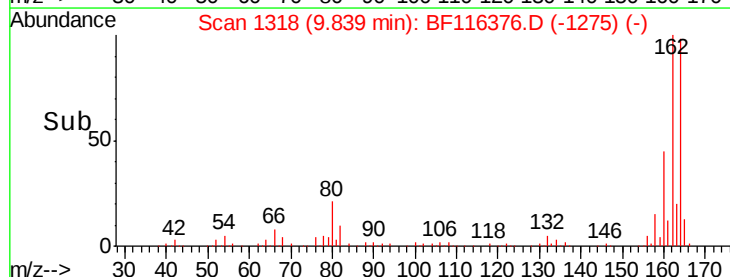
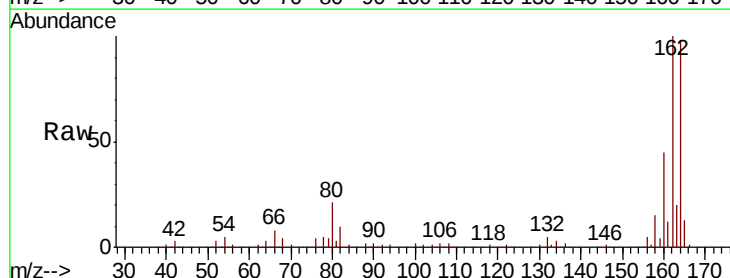
Instrument :
 BNA_F
 ClientSampleId :

Tot Ion: 82 Resp: 29670
 Ion Ratio Lower Upper
 82 100
 128 40.5 36.5 54.7
 54 46.5 36.0 54.0



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.84 min Scan# 1318
 Delta R.T. -0.05 min
 Lab File: BF116376.D
 Acq: 18 Aug 2019 4:06

Tgt Ion: 164 Resp: 243959
 Ion Ratio Lower Upper
 164 100
 162 101.8 82.6 124.0
 160 46.0 37.6 56.4





#42

2,4,6-Tribromophenol

Concen: 3.264 ng

RT: 10.65 min Scan# 1455

Delta R.T. -0.03 min

Lab File: BF116376.D

Acq: 18 Aug 2019 4:06

Instrument :

BNA_F

ClientSampleId :

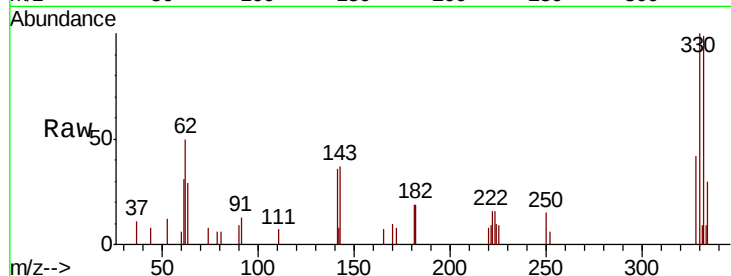
Tot Ion:330 Resp: 7719

Ion Ratio Lower Upper

330 100

332 98.3 76.8 115.2

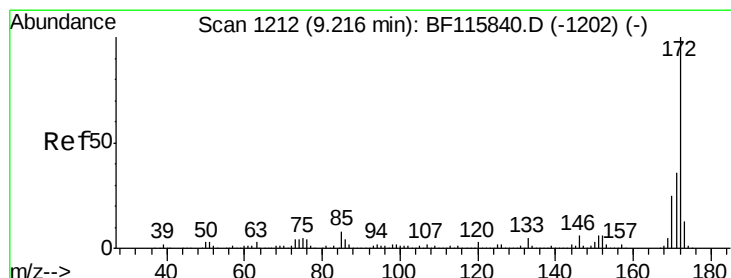
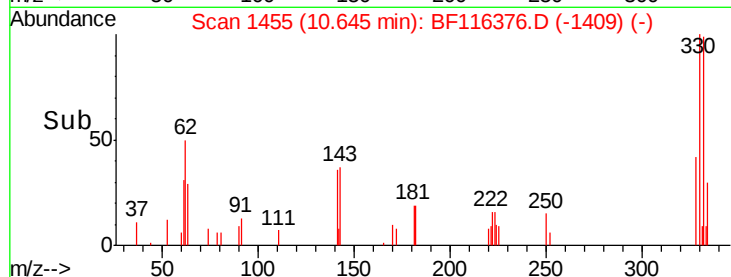
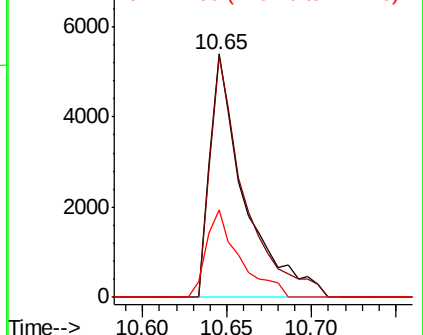
141 34.7 26.3 39.5



Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 4.764 ng

RT: 9.16 min Scan# 1203

Delta R.T. -0.04 min

Lab File: BF116376.D

Acq: 18 Aug 2019 4:06

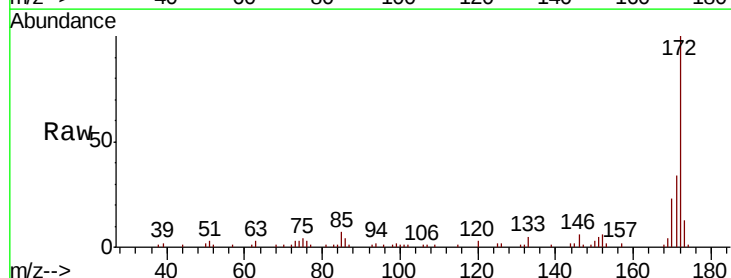
Tgt Ion:172 Resp: 62044

Ion Ratio Lower Upper

172 100

171 34.5 29.6 44.4

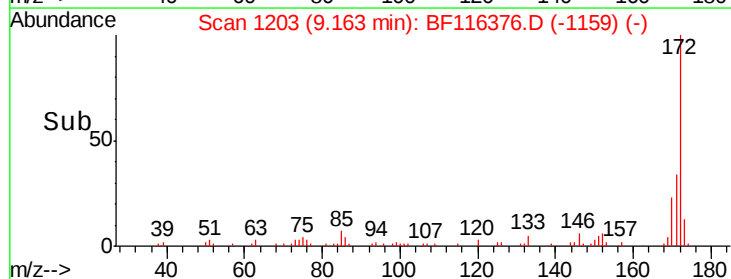
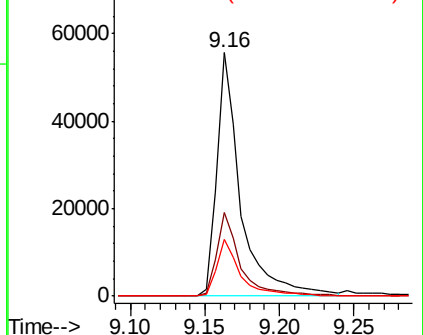
170 23.3 20.1 30.1

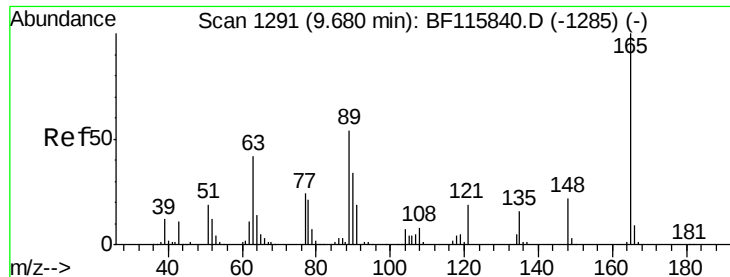


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

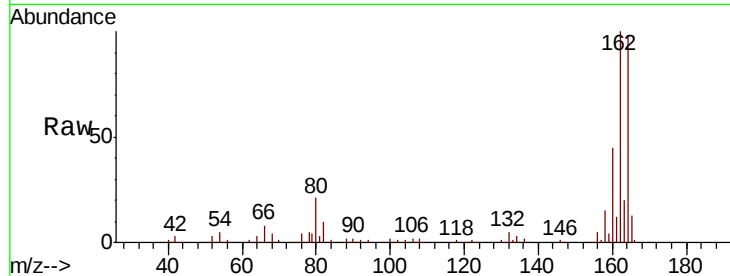




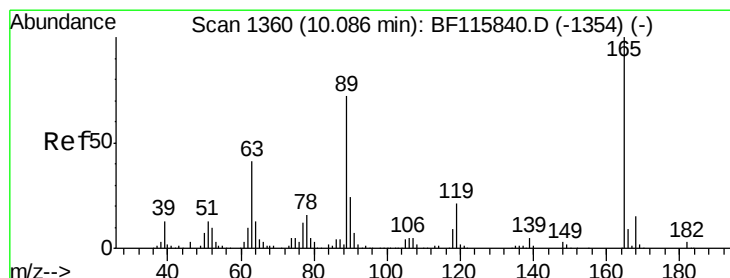
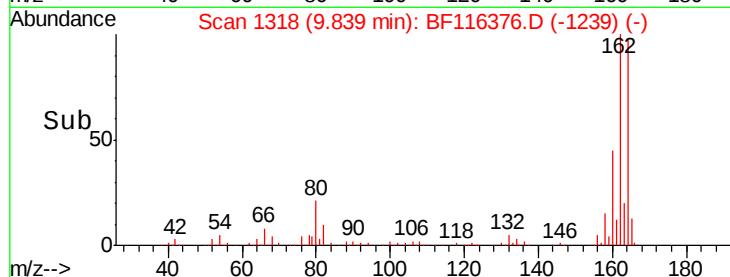
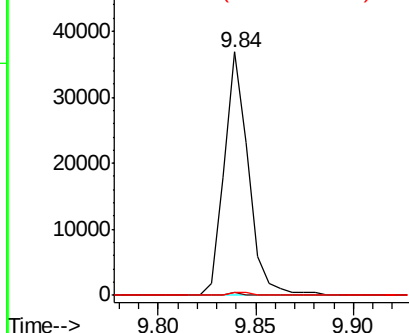
#51
 2,6-Dinitrotoluene
 Concen: 8.784 ng
 RT: 9.84 min Scan# 1318
 Delta R.T. 0.16 min
 Lab File: BF116376.D
 Acq: 18 Aug 2019 4:06

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.0	38.2	57.2#
89	1.1	42.9	64.3#



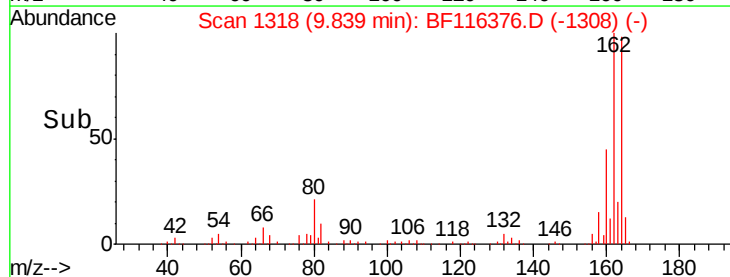
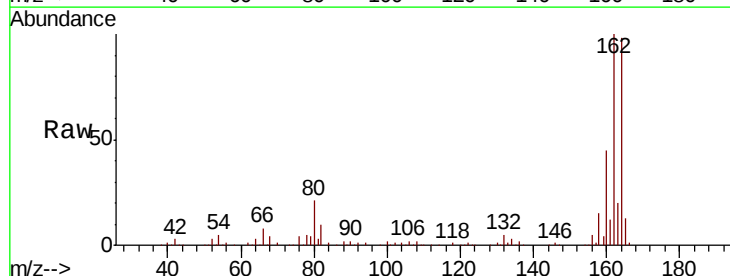
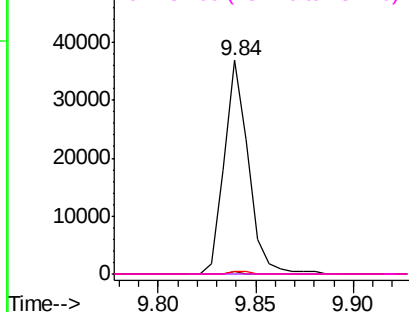
Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1

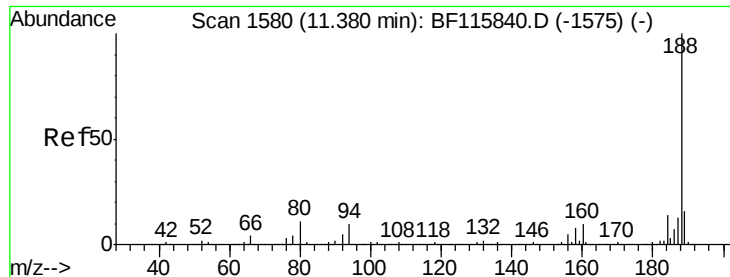


#57
 2,4-Dinitrotoluene
 Concen: 6.598 ng
 RT: 9.84 min Scan# 1318
 Delta R.T. -0.24 min
 Lab File: BF116376.D
 Acq: 18 Aug 2019 4:06

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.0	39.6	59.4#
89	1.1	62.2	93.2#
182	0.0	2.1	3.1#

Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1
 Ion 182.00 (181.70 to 182.70): E

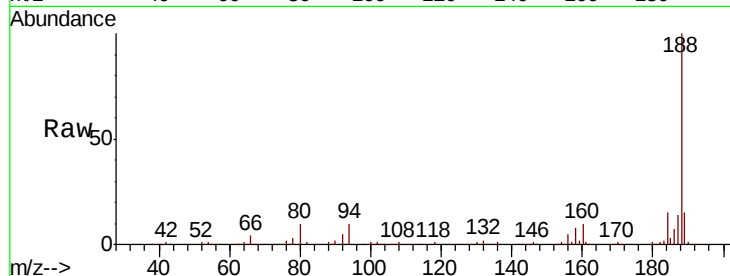




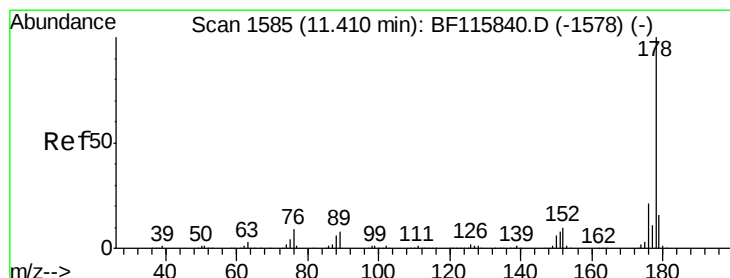
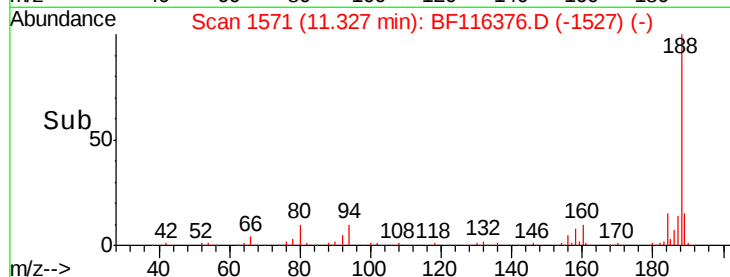
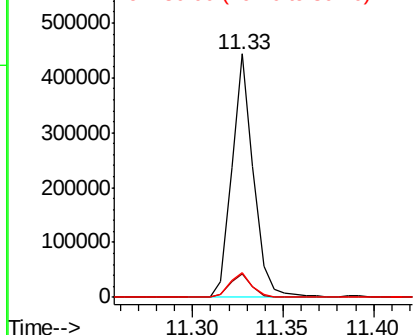
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1571
Delta R.T. -0.04 min
Lab File: BF116376.D
Acq: 18 Aug 2019 4:06

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 367971
Ion Ratio Lower Upper
188 100
94 9.6 8.1 12.1
80 10.4 8.7 13.1

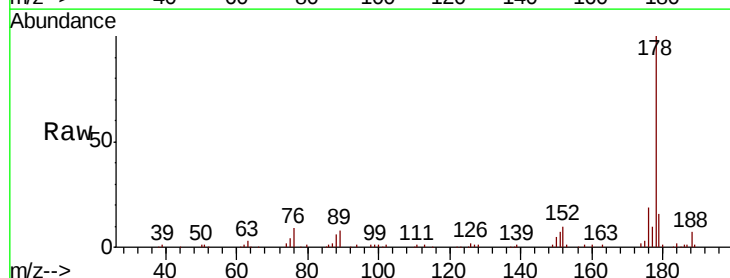


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

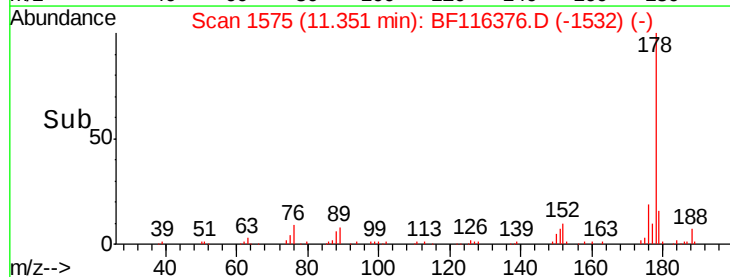
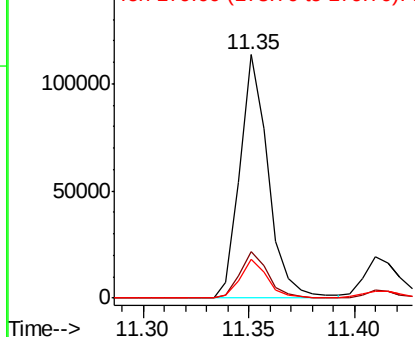


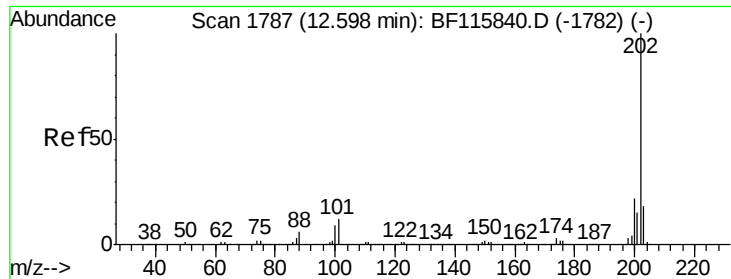
#71
Phenanthrene
Concen: 5.601 ng
RT: 11.35 min Scan# 1575
Delta R.T. -0.05 min
Lab File: BF116376.D
Acq: 18 Aug 2019 4:06

Tgt Ion:178 Resp: 105369
Ion Ratio Lower Upper
178 100
176 18.9 16.6 24.8
179 16.2 12.5 18.7



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

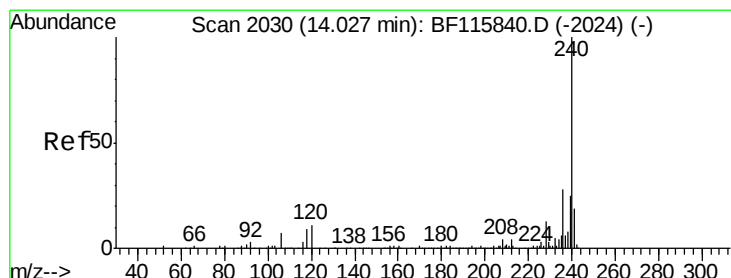
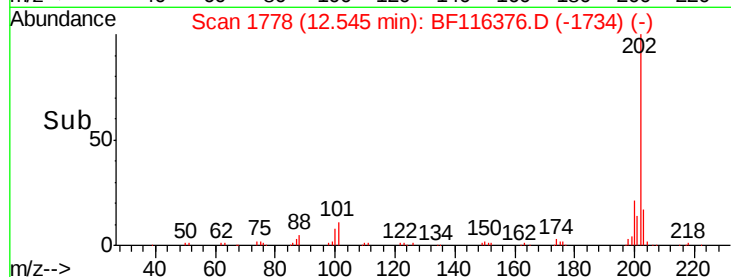
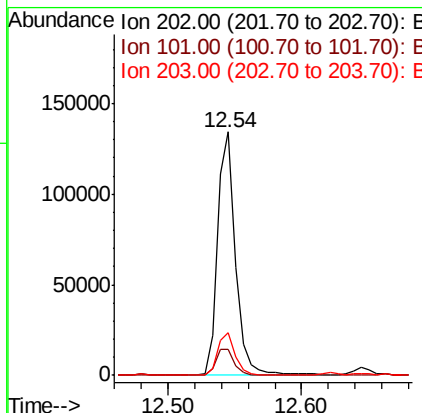
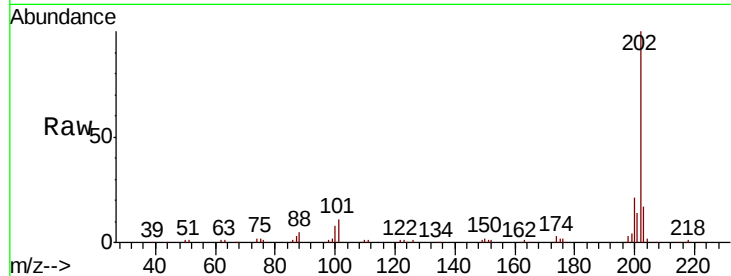




#75
 Fluoranthene
 Concen: 6.479 ng
 RT: 12.54 min Scan# 1778
 Delta R.T. -0.04 min
 Lab File: BF116376.D
 Acq: 18 Aug 2019 4:06

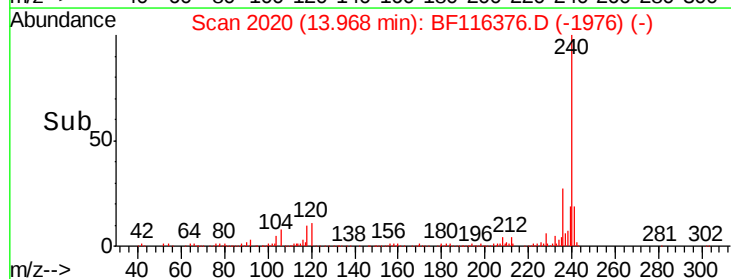
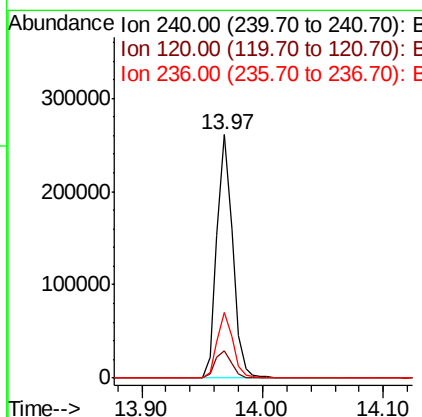
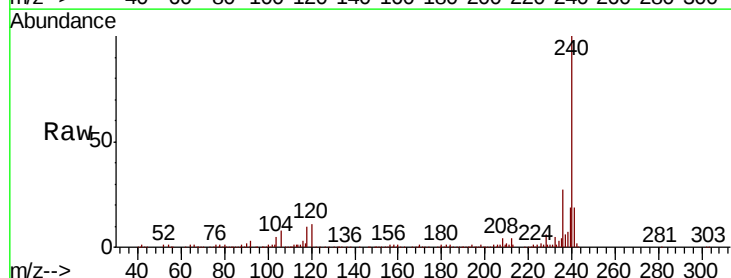
Instrument :
 BNA_F
 ClientSampleId :

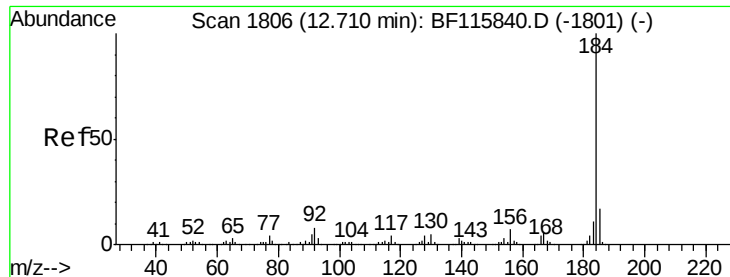
Tot Ion:	202	Resp:	127601
Ion	Ratio	Lower	Upper
202	100		
101	10.9	0.0	31.2
203	17.3	0.0	37.8



#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.97 min Scan# 2020
 Delta R.T. -0.04 min
 Lab File: BF116376.D
 Acq: 18 Aug 2019 4:06

Tgt Ion:	240	Resp:	234711
Ion	Ratio	Lower	Upper
240	100		
120	11.3	10.7	16.1
236	27.0	22.2	33.2





#77

Benzidine

Concen: 13.101 ng

RT: 12.66 min Scan# 1798

Delta R.T. -0.04 min

Lab File: BF116376.D

Acq: 18 Aug 2019 4:06

Instrument :

BNA_F

ClientSampleId :

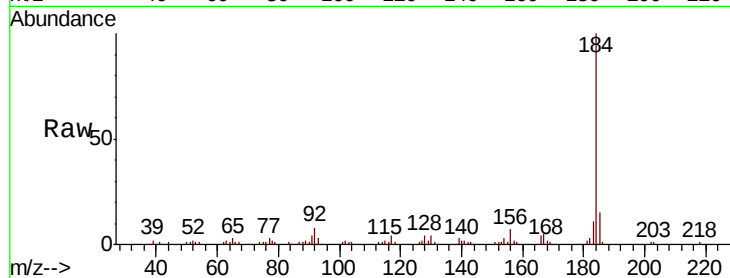
Tot Ion:184 Resp: 103886

Ion Ratio Lower Upper

184 100

185 15.1 12.8 19.2

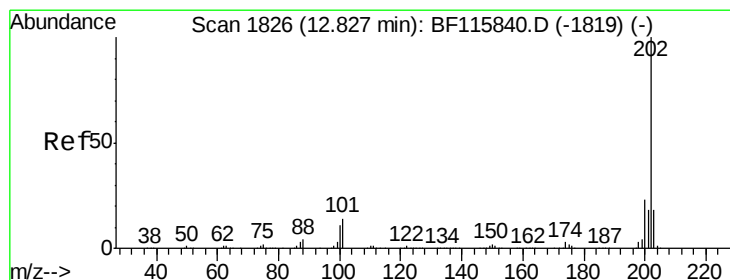
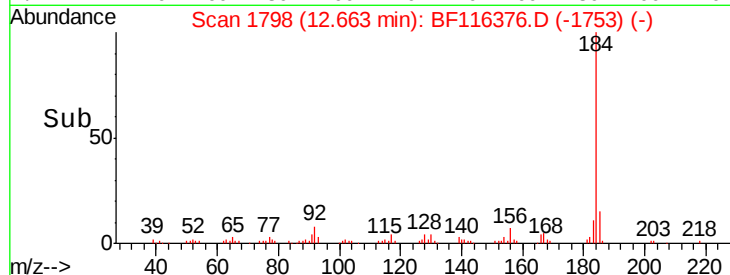
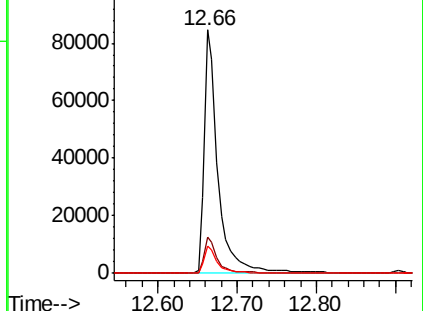
183 11.2 9.4 14.0



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Pyrene

Concen: 6.677 ng

RT: 12.77 min Scan# 1817

Delta R.T. -0.04 min

Lab File: BF116376.D

Acq: 18 Aug 2019 4:06

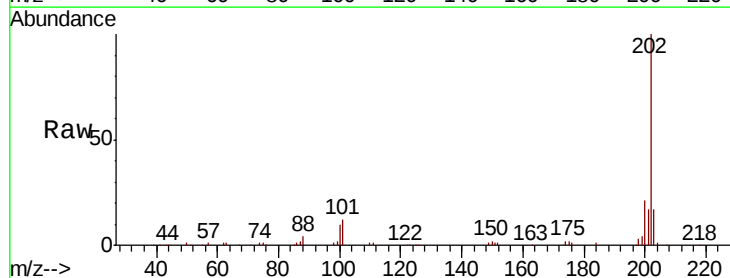
Tgt Ion:202 Resp: 118141

Ion Ratio Lower Upper

202 100

200 21.2 18.0 27.0

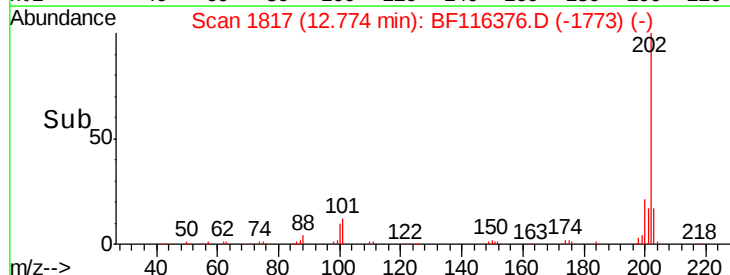
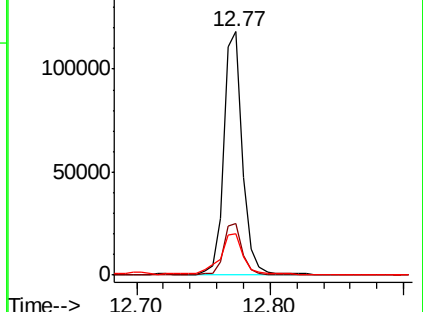
203 17.1 14.1 21.1

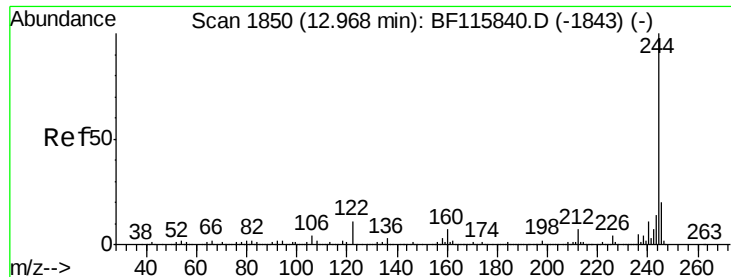


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 4.416 ng

RT: 12.90 min Scan# 1839

Delta R.T. -0.05 min

Lab File: BF116376.D

Acq: 18 Aug 2019 4:06

Instrument :

BNA_F

ClientSampleId :

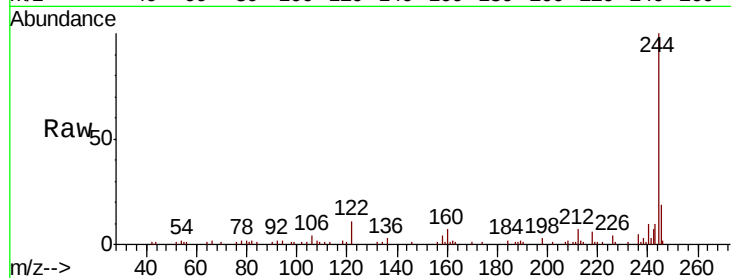
Tot Ion:244 Resp: 49189

Ion Ratio Lower Upper

244 100

212 6.7 5.8 8.8

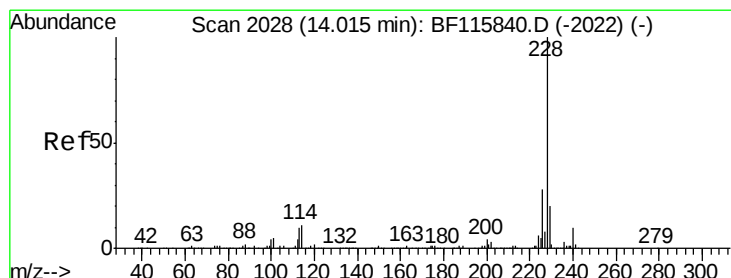
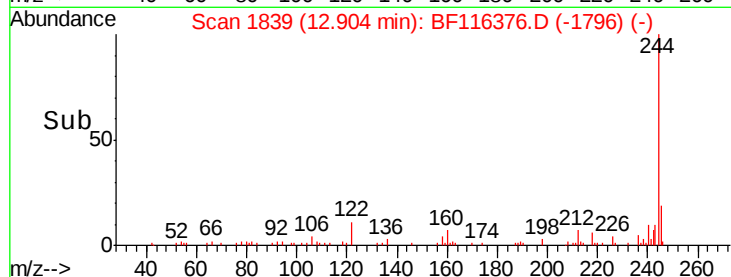
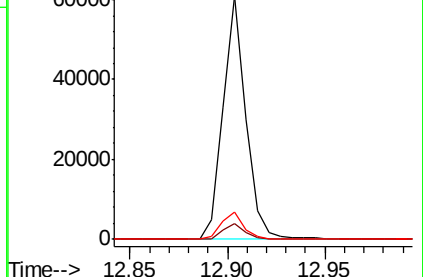
122 11.2 9.0 13.4



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 3.631 ng

RT: 13.96 min Scan# 2018

Delta R.T. -0.04 min

Lab File: BF116376.D

Acq: 18 Aug 2019 4:06

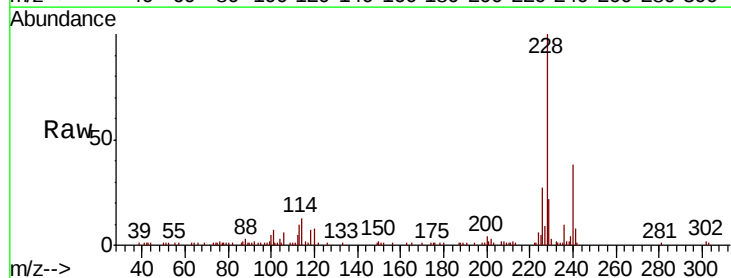
Tgt Ion:228 Resp: 54474

Ion Ratio Lower Upper

228 100

226 26.9 22.7 34.1

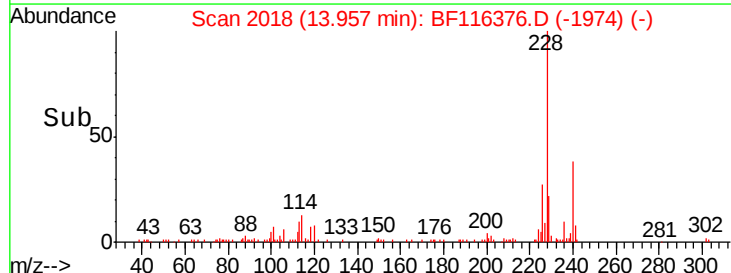
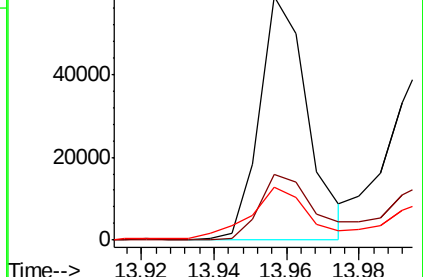
229 21.8 16.2 24.4

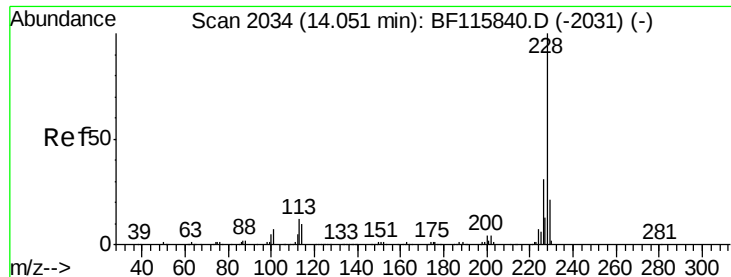


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

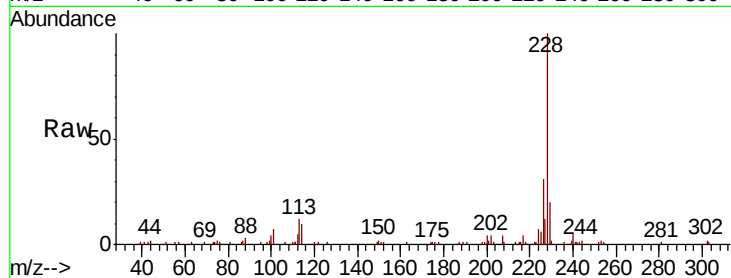




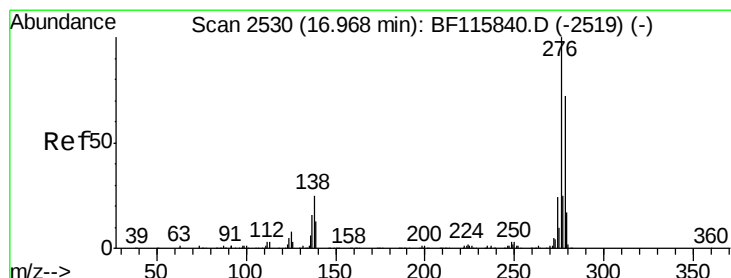
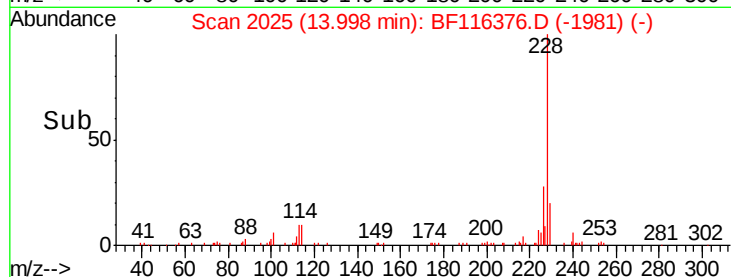
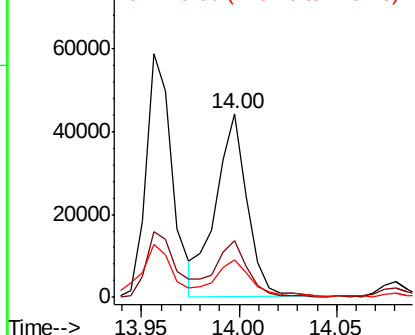
#83
Chrysene
Concen: 3.415 ng
RT: 14.00 min Scan# 2025
Delta R.T. -0.04 min
Lab File: BF116376.D
Acq: 18 Aug 2019 4:06

Instrument :
BNA_F
ClientSampleId :

Tot Ion:228 Resp: 49745
Ion Ratio Lower Upper
228 100
226 30.6 25.5 38.3
229 20.1 16.6 24.8

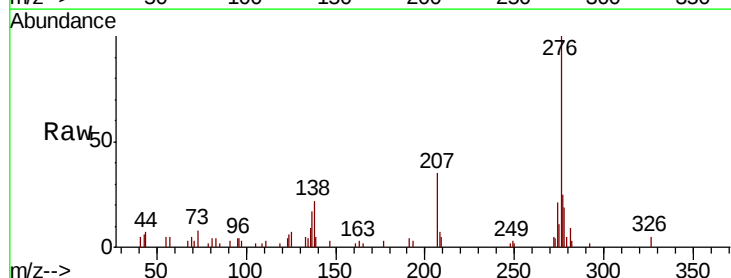


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

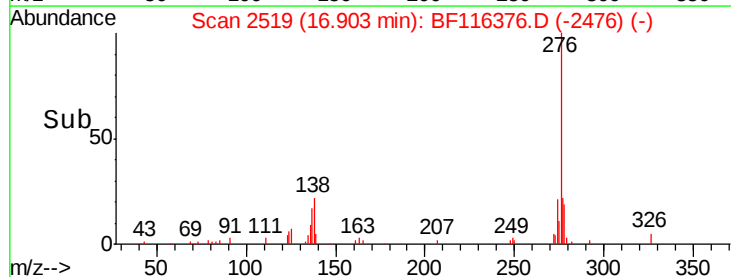
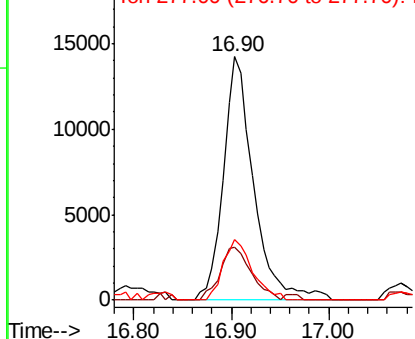


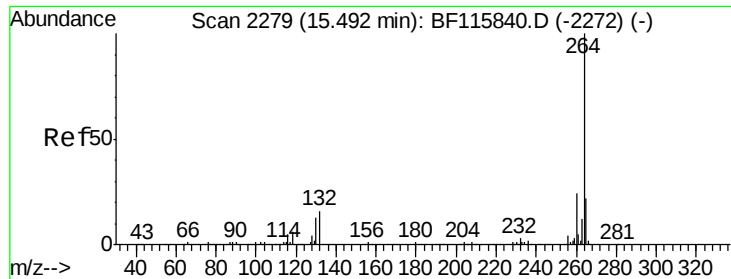
#86
Indeno(1,2,3-cd)pyrene
Concen: 2.510 ng
RT: 16.90 min Scan# 2519
Delta R.T. -0.05 min
Lab File: BF116376.D
Acq: 18 Aug 2019 4:06

Tgt Ion:276 Resp: 30706
Ion Ratio Lower Upper
276 100
138 22.4 20.4 30.6
277 24.0 20.0 30.0



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

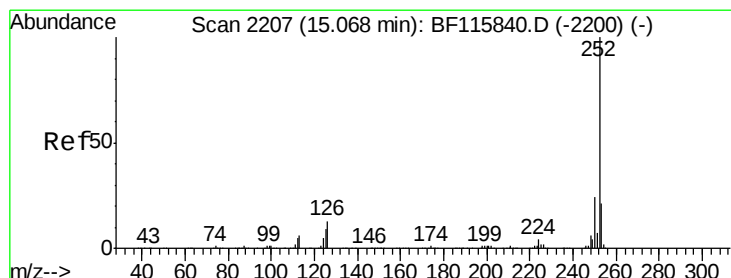
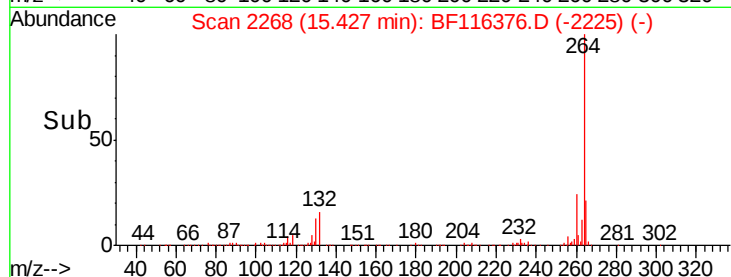
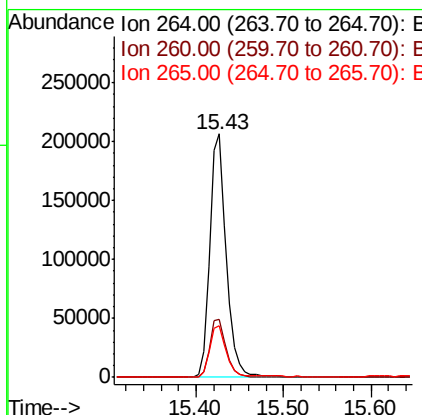
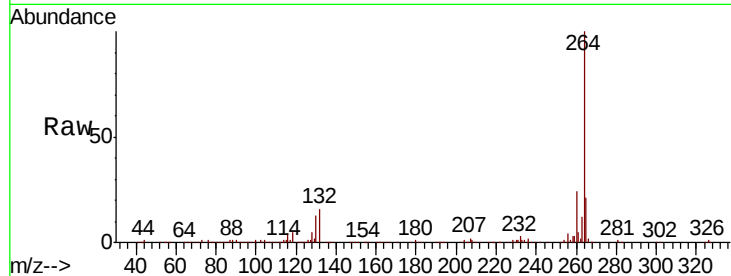




#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.43 min Scan# 2268
Delta R.T. -0.05 min
Lab File: BF116376.D
Acq: 18 Aug 2019 4:06

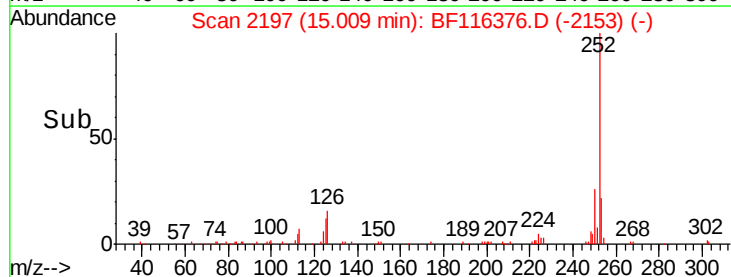
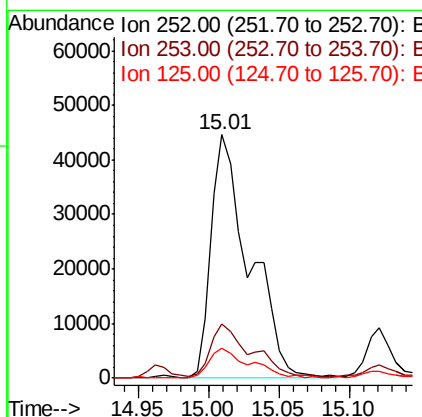
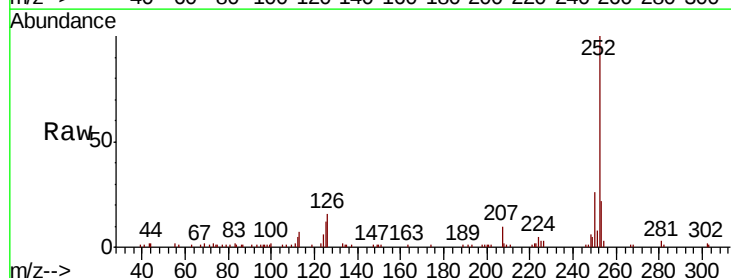
Instrument :
BNA_F
ClientSampleID :

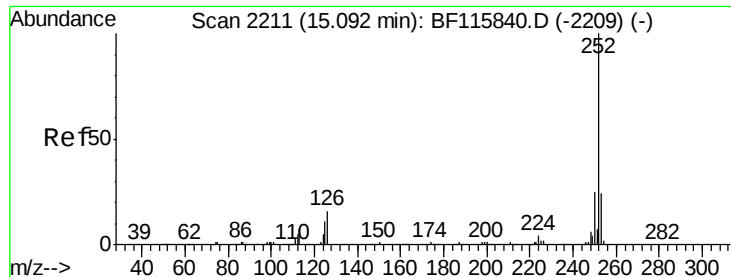
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.7	29.5
265	21.1	17.4	26.0



#88
Benzo(b)fluoranthene
Concen: 5.456 ng
RT: 15.01 min Scan# 2197
Delta R.T. -0.04 min
Lab File: BF116376.D
Acq: 18 Aug 2019 4:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.8	26.8
125	12.2	8.4	12.6





#89

Benzo(k)fluoranthene

Concen: 5.601 ng

RT: 15.01 min Scan# 2197

Delta R.T. -0.07 min

Lab File: BF116376.D

Acq: 18 Aug 2019 4:06

Instrument :

BNA_F

ClientSampleId :

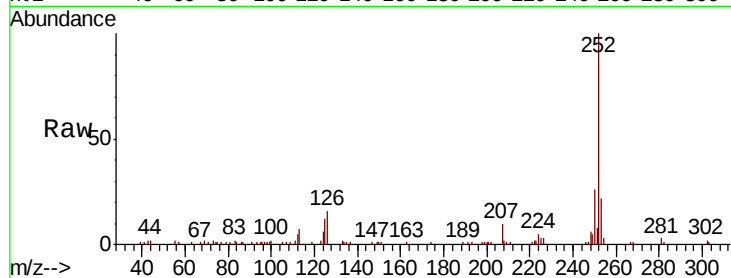
Tot Ion:252 Resp: 85072

Ion Ratio Lower Upper

252 100

253 22.1 17.8 26.8

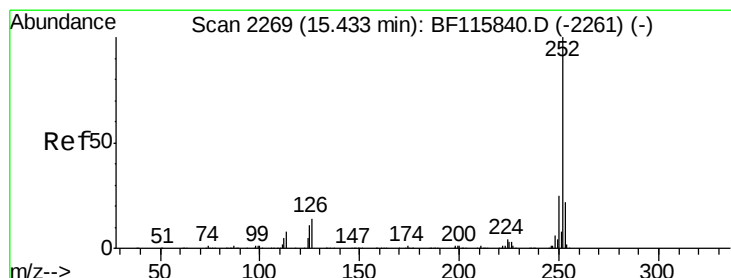
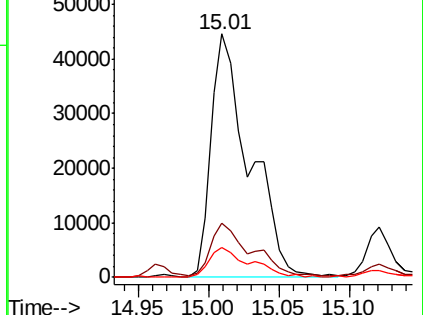
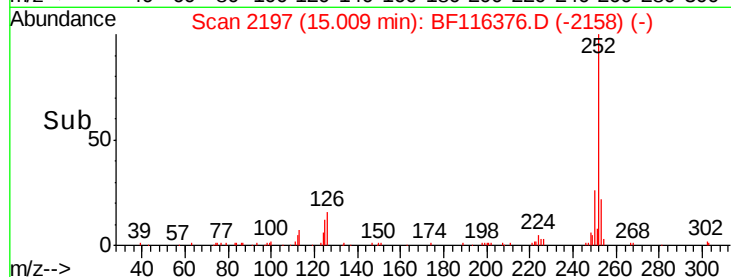
125 12.2 7.7 11.5#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Benzo(a)pyrene

Concen: 3.455 ng

RT: 15.37 min Scan# 2258

Delta R.T. -0.05 min

Lab File: BF116376.D

Acq: 18 Aug 2019 4:06

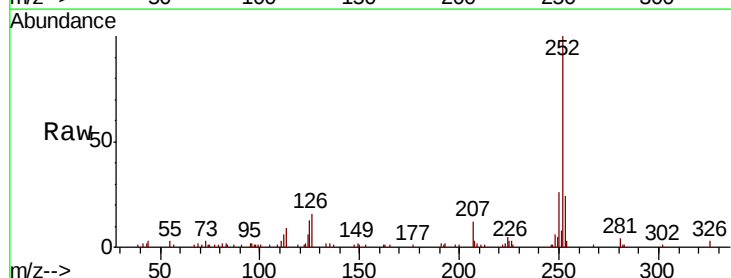
Tgt Ion:252 Resp: 48156

Ion Ratio Lower Upper

252 100

253 24.0 18.0 27.0

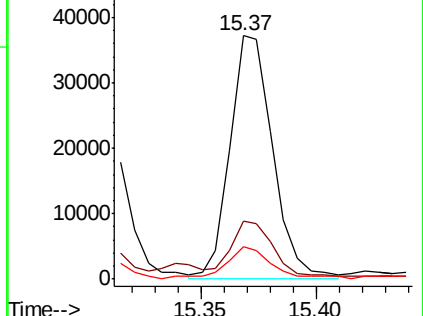
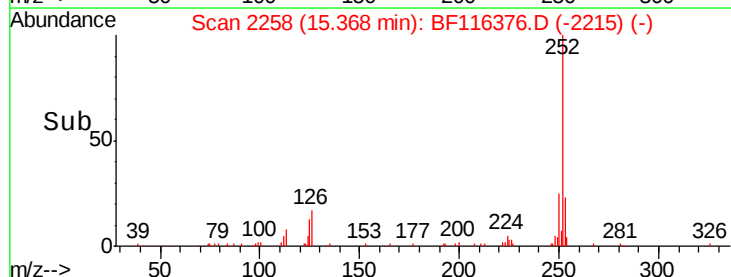
125 13.1 8.9 13.3

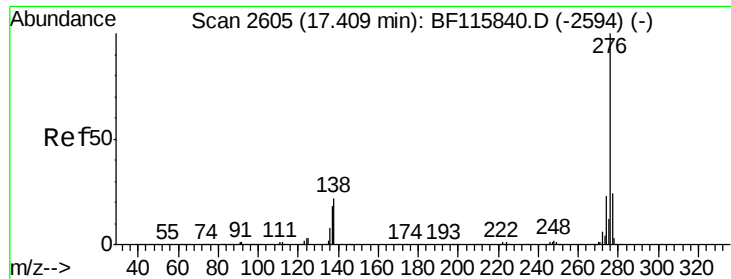


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#92

Benzo(a,h,i)perylene

Concen: 2.466 ng

RT: 17.34 min Scan# 2594

Delta R.T. -0.04 min

Lab File: BF116376.D

Acq: 18 Aug 2019 4:06

Instrument :

BNA_F

ClientSampleId :

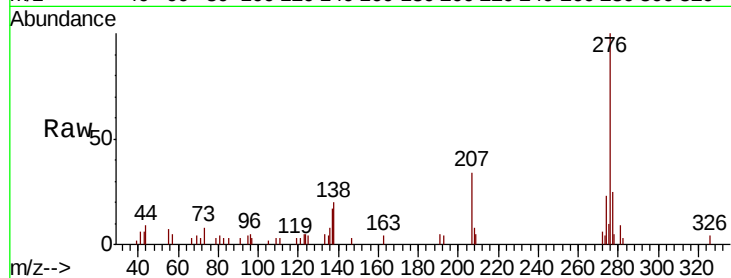
Tot Ion: 276 Resp: 29226

Ion Ratio Lower Upper

276 100

277 24.7 18.4 27.6

138 19.9 17.0 25.6



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

