

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081719\
 Data File : BF116374.D
 Acq On : 18 Aug 2019 3:12
 Operator : HP/JU
 Sample : K4384-03
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 19 07:50:09 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	131288	20.00	ng	-0.04
21) Naphthalene-d8	8.09	136	500359	20.00	ng	-0.04
39) Acenaphthene-d10	9.84	164	246975	20.00	ng	-0.05
64) Phenanthrene-d10	11.33	188	370185	20.00	ng	-0.04
76) Chrysene-d12	13.97	240	233667	20.00	ng	-0.04
87) Perylene-d12	15.43	264	271693	20.00	ng	-0.05

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.44	112	699800	89.23	ng	-0.03
7) Phenol-d6	6.46	99	901861	91.15	ng	-0.03
23) Nitrobenzene-d5	7.37	82	584199	67.40	ng	-0.04
42) 2,4,6-Tribromophenol	10.63	330	177921	74.30	ng	-0.04
45) 2-Fluorobiphenyl	9.16	172	956203	72.52	ng	-0.04
79) Terphenyl-d14	12.90	244	776727	70.04	ng	-0.05

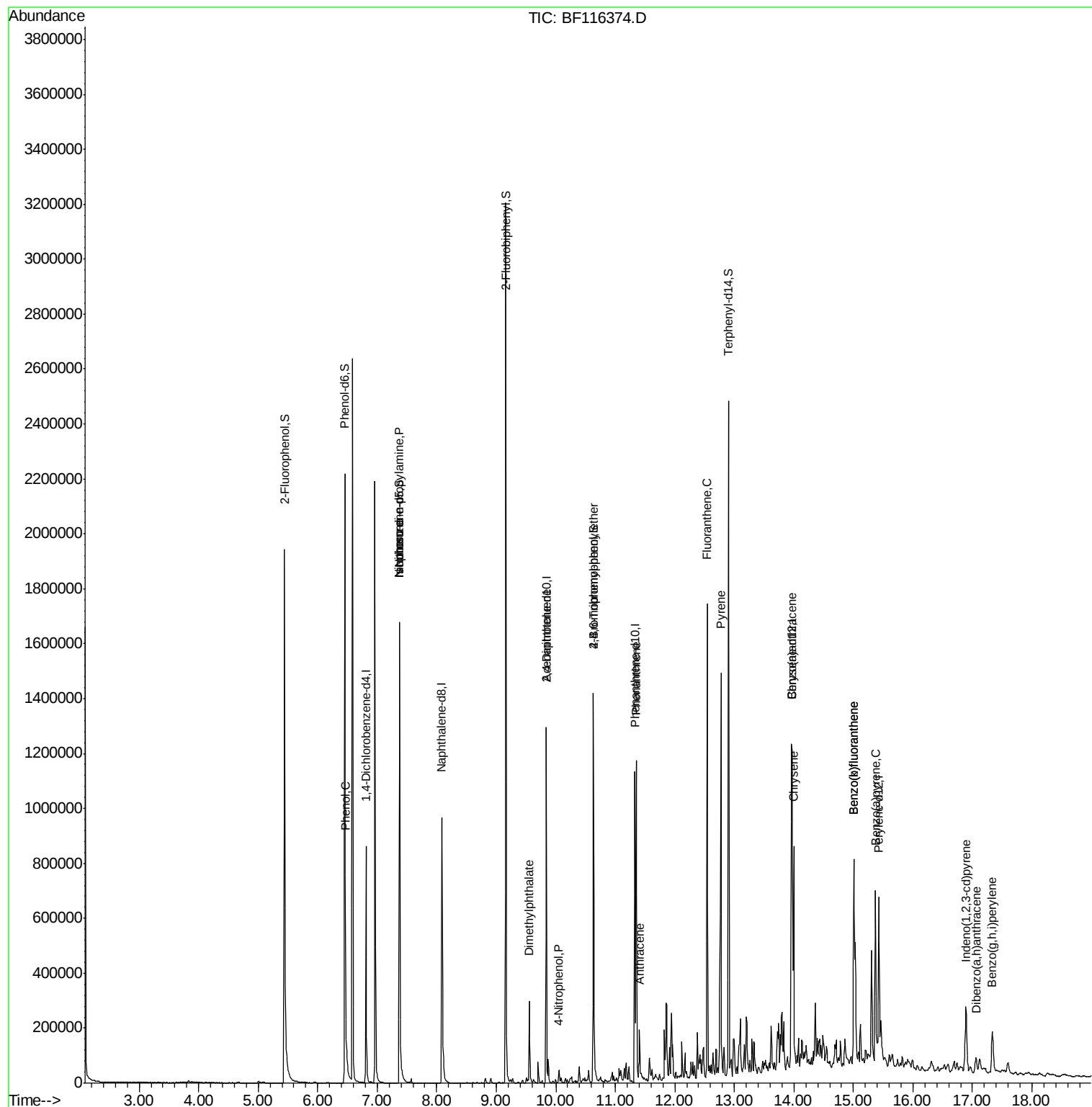
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.47	94	41623	3.572	ng	96
19) n-Nitroso-di-n-propylamine	7.37	70	77907	12.706	ng	# 78
25) Isophorone	7.37	82	584196	35.246	ng	# 65
50) Dimethylphthalate	9.56	163	120427	7.161	ng	99
56) 4-Nitrophenol	10.06	139	8098	2.799	ng	# 5
57) 2,4-Dinitrotoluene	9.84	165	32108	6.599	ng	# 21
67) 4-Bromophenyl-phenylether	10.63	248	11317	2.856	ng	# 1
71) Phenanthrene	11.35	178	411207	21.729	ng	99
72) Anthracene	11.41	178	85130	4.445	ng	98
75) Fluoranthene	12.54	202	705642	35.616	ng	100
78) Pyrene	12.77	202	626713	35.580	ng	99
81) Benzo(a)anthracene	13.96	228	359880	24.096	ng	100
83) Chrysene	14.00	228	310433	21.410	ng	97
86) Indeno(1,2,3-cd)pyrene	16.89	276	156359	12.839	ng	95
88) Benzo(b)fluoranthene	15.01	252	538847	34.300	ng	98
89) Benzo(k)fluoranthene	15.01	252	538847	35.216	ng	# 97
90) Benzo(a)pyrene	15.37	252	301555	21.473	ng	99
91) Dibenzo(a,h)anthracene	17.06	278	36921	3.037	ng	96
92) Benzo(a,h,i)perylene	17.33	276	134476	11.264	ng	96

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.81 min Scan# 803

Delta R.T. -0.04 min

Lab File: BF116374.D

Acq: 18 Aug 2019 3:12

Instrument :

BNA_F

ClientSampleId :

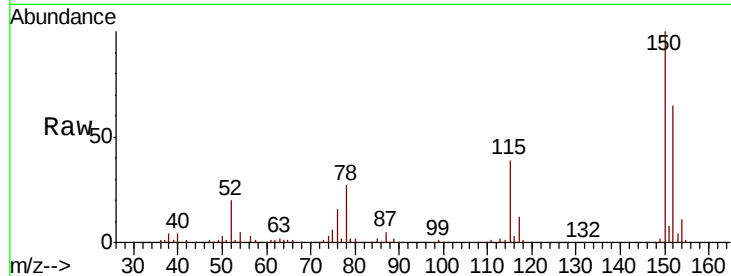
Tot Ion:152 Resp: 131288

Ion Ratio Lower Upper

152 100

150 154.8 126.2 189.2

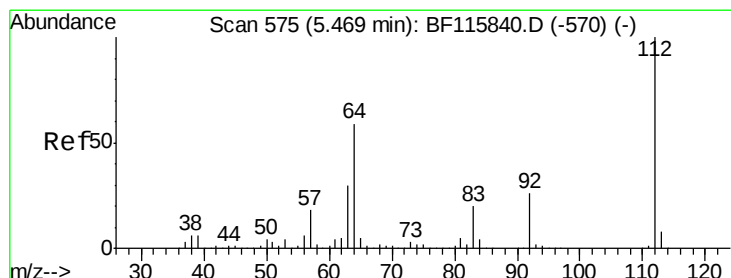
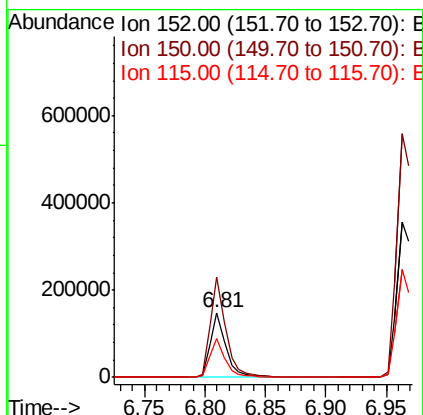
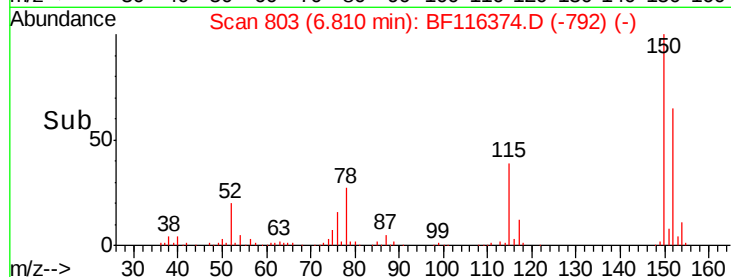
115 60.4 49.9 74.9



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 89.232 ng

RT: 5.44 min Scan# 570

Delta R.T. -0.03 min

Lab File: BF116374.D

Acq: 18 Aug 2019 3:12

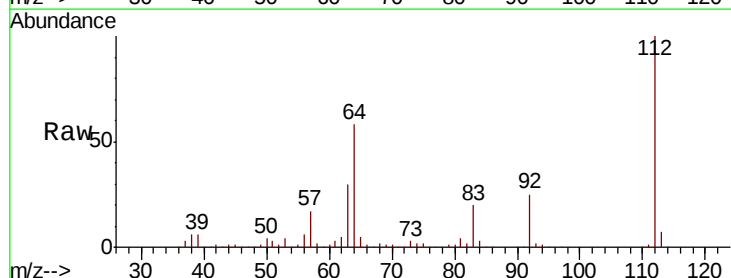
Tgt Ion:112 Resp: 699800

Ion Ratio Lower Upper

112 100

64 58.0 45.4 68.2

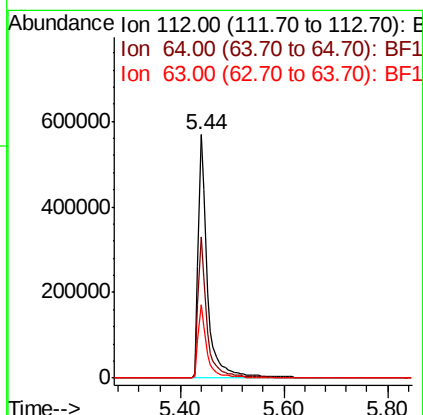
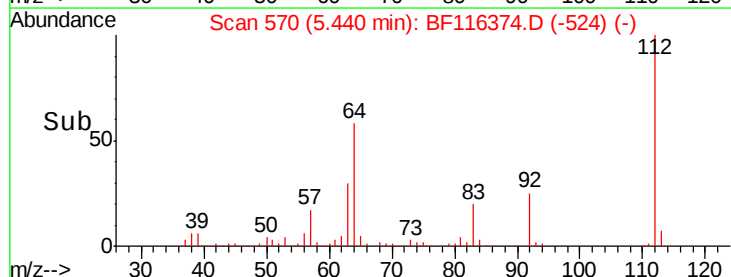
63 29.9 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 91.146 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.03 min

Lab File: BF116374.D

Acq: 18 Aug 2019 3:12

Instrument :

BNA_F

ClientSampled :

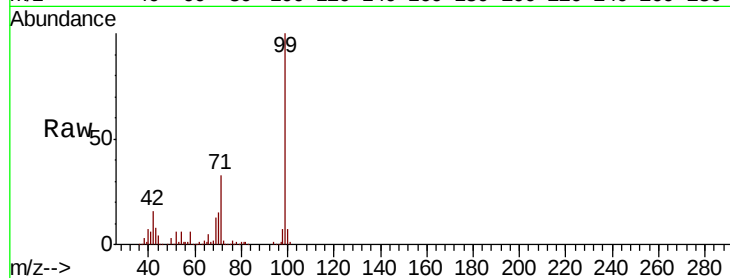
Tot Ion: 99 Resp: 901861

Ion Ratio Lower Upper

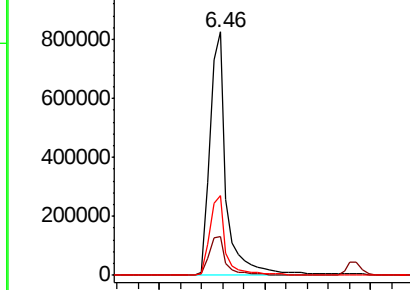
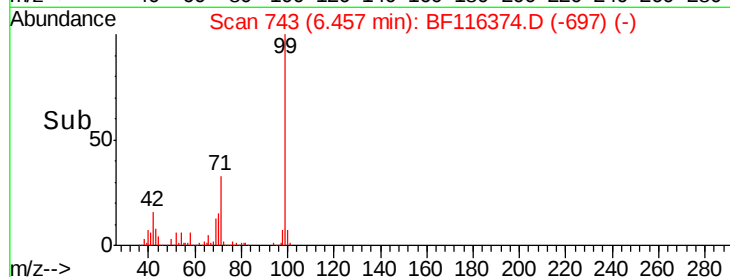
99 100

42 16.2 13.8 20.8

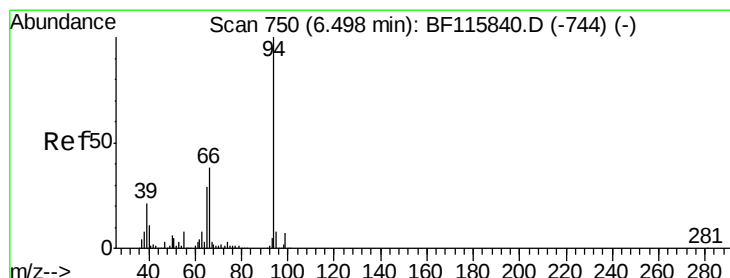
71 32.8 27.3 40.9



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



Time-->



#10

Phenol

Concen: 3.572 ng

RT: 6.47 min Scan# 745

Delta R.T. -0.04 min

Lab File: BF116374.D

Acq: 18 Aug 2019 3:12

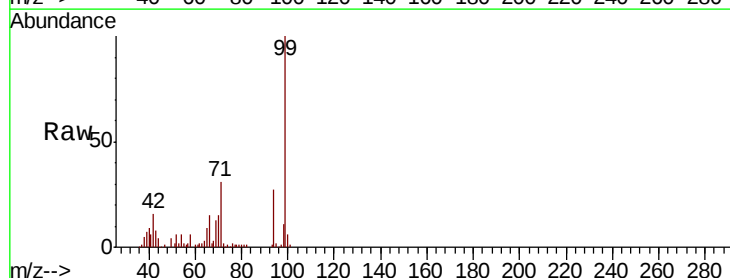
Tgt Ion: 94 Resp: 41623

Ion Ratio Lower Upper

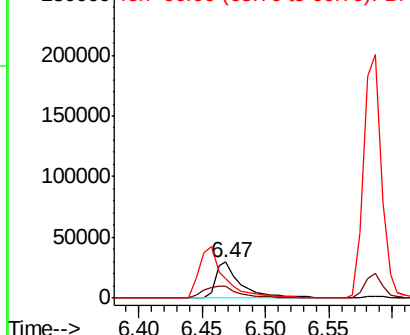
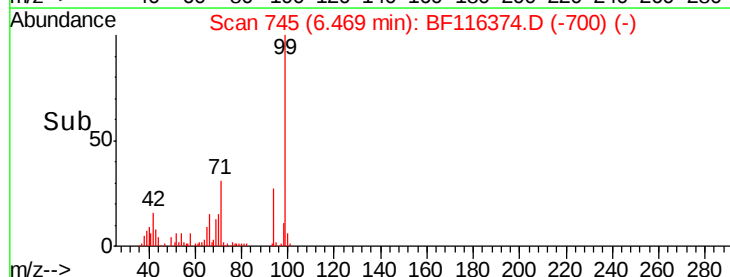
94 100

65 32.1 16.8 56.8

66 53.6 34.2 74.2



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1



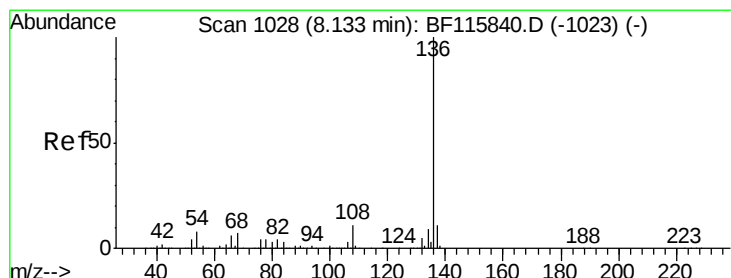
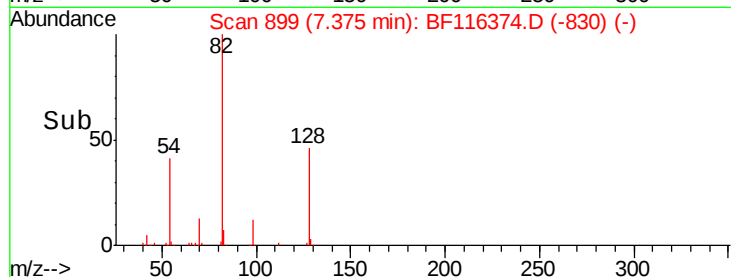
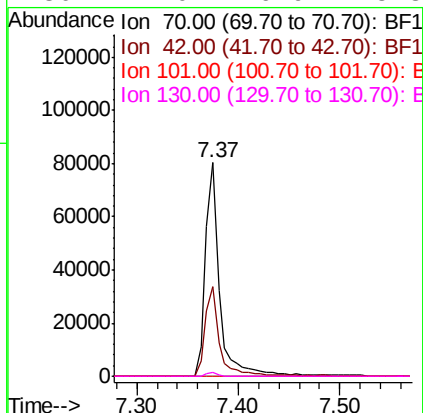
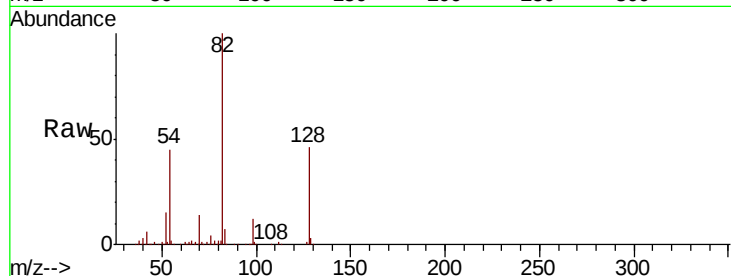
Time-->



#19
n-Nitroso-di-n-propylamine
Concen: 12.706 ng
RT: 7.37 min Scan# 899
Delta R.T. 0.11 min
Lab File: BF116374.D
Acq: 18 Aug 2019 3:12

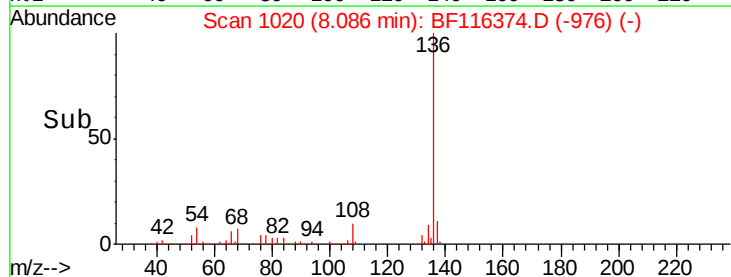
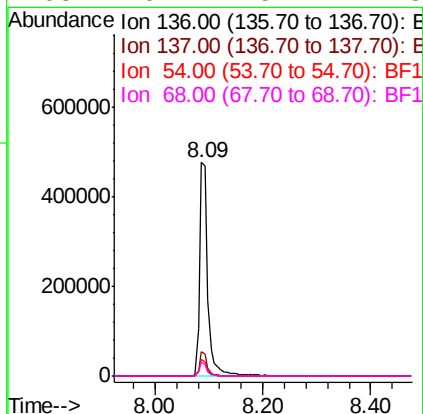
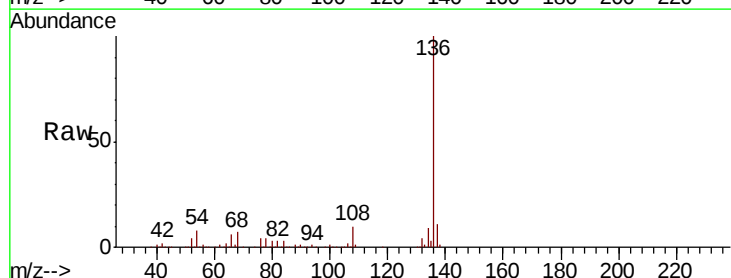
Instrument :
BNA_F
ClientSampleId :

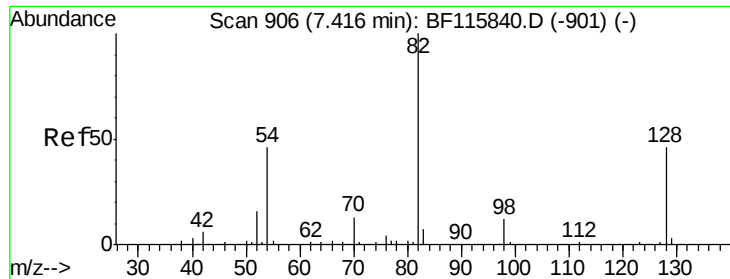
Tot Ion:	70	Resp:	77907
Ion	Ratio	Lower	Upper
70	100		
42	41.9	40.9	61.3
101	0.0	7.9	11.9#
130	2.0	16.9	25.3#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.09 min Scan# 1020
Delta R.T. -0.04 min
Lab File: BF116374.D
Acq: 18 Aug 2019 3:12

Tgt Ion:	136	Resp:	500359
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	7.8	5.8	8.6
68	6.7	5.2	7.8

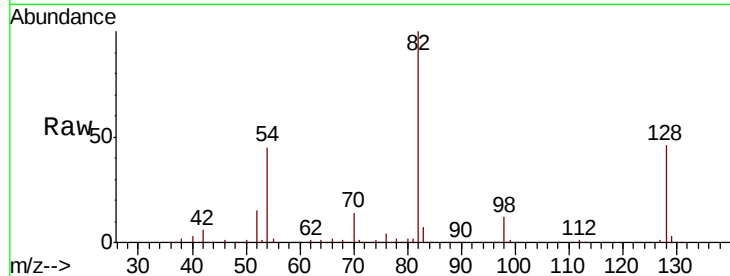




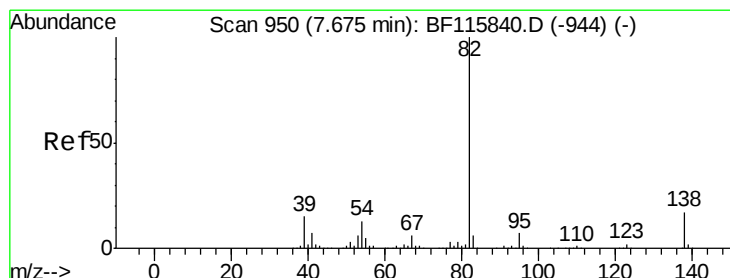
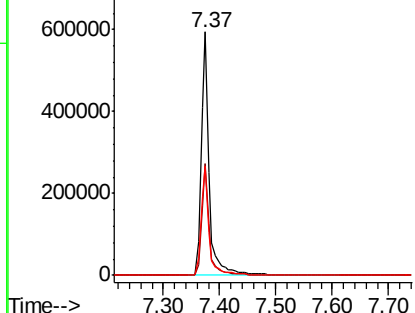
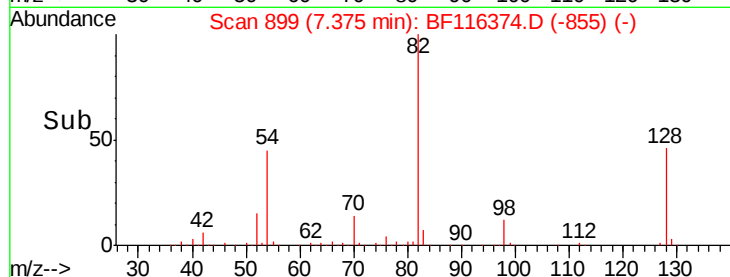
#23
Nitrobenzene-d5
Concen: 67.395 ng
RT: 7.37 min Scan# 899
Delta R.T. -0.04 min
Lab File: BF116374.D
Acq: 18 Aug 2019 3:12

Instrument :
BNA_F
ClientSampleId :

Tot Ion	82	Resp	584199
Ion Ratio	Lower	Upper	
82	100		
128	46.0	36.5	54.7
54	44.7	36.0	54.0

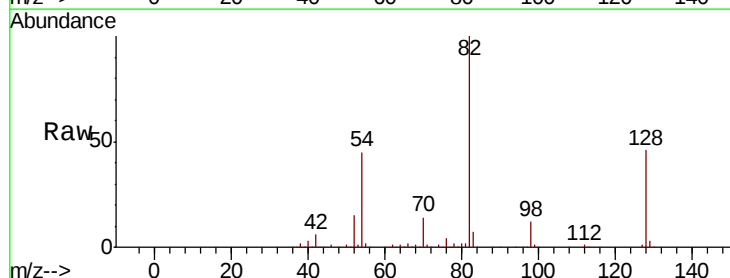


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

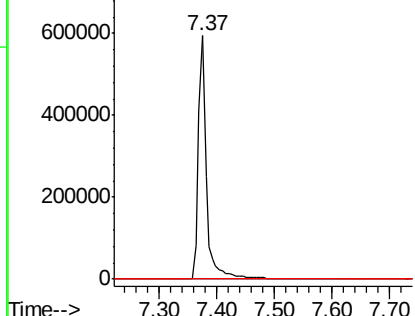
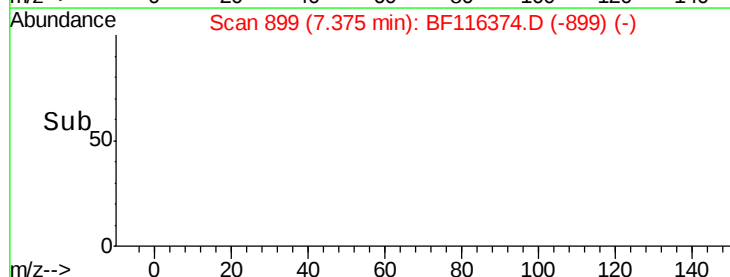


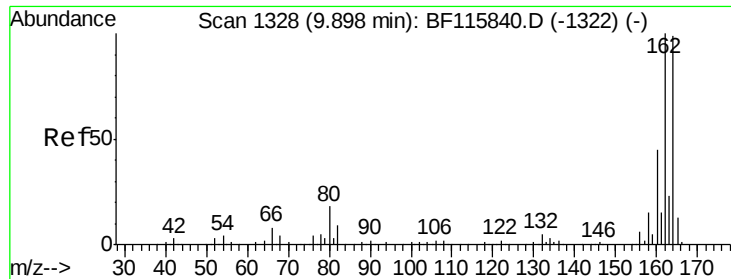
#25
Isophorone
Concen: 35.246 ng
RT: 7.37 min Scan# 899
Delta R.T. -0.30 min
Lab File: BF116374.D
Acq: 18 Aug 2019 3:12

Tgt Ion	82	Resp	584196
Ion Ratio	Lower	Upper	
82	100		
95	0.0	5.4	8.0#
138	0.0	14.5	21.7#



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): BF1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.84 min Scan# 1318

Delta R.T. -0.05 min

Lab File: BF116374.D

Acq: 18 Aug 2019 3:12

Instrument :

BNA_F

ClientSampleId :

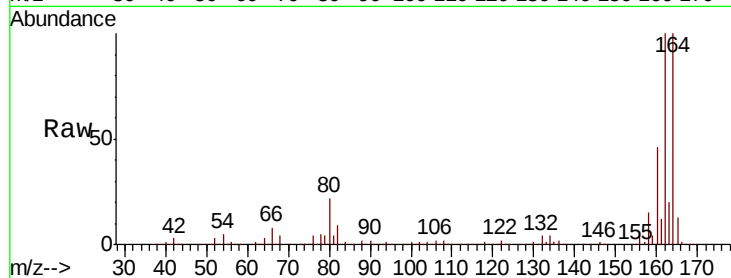
Tot Ion:164 Resp: 246975

Ion Ratio Lower Upper

164 100

162 100.4 82.6 124.0

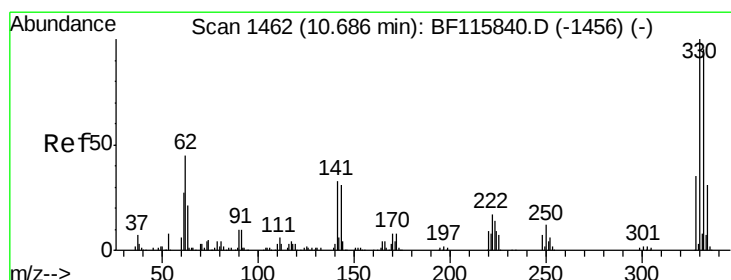
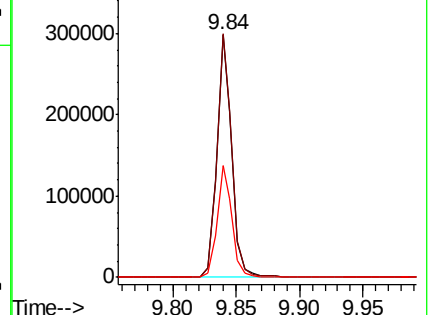
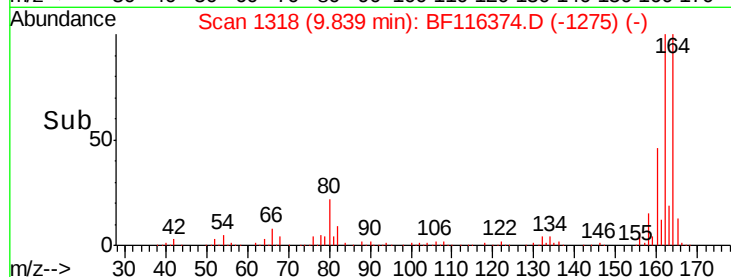
160 46.1 37.6 56.4



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 74.304 ng

RT: 10.63 min Scan# 1453

Delta R.T. -0.04 min

Lab File: BF116374.D

Acq: 18 Aug 2019 3:12

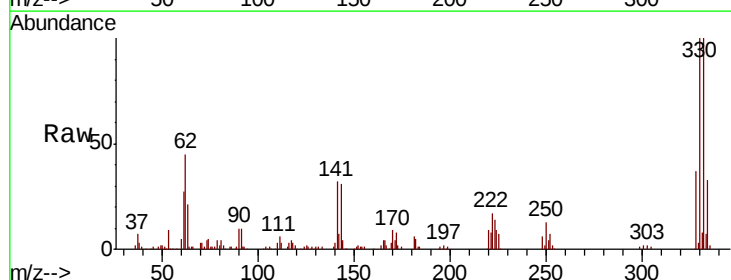
Tgt Ion:330 Resp: 177921

Ion Ratio Lower Upper

330 100

332 98.0 76.8 115.2

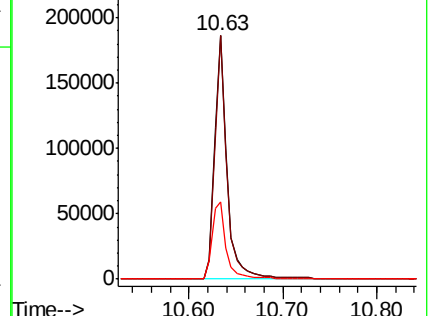
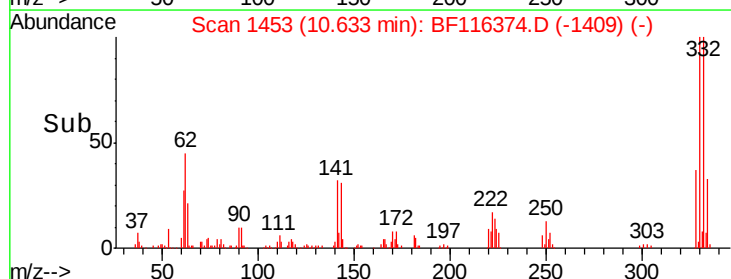
141 35.4 26.3 39.5



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

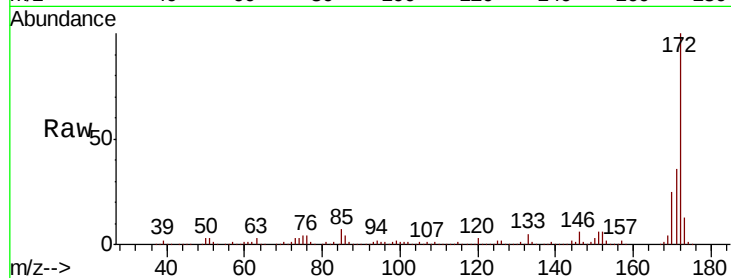




#45
2-Fluorobiphenyl
Concen: 72.519 ng
RT: 9.16 min Scan# 1203
Delta R.T. -0.04 min
Lab File: BF116374.D
Acq: 18 Aug 2019 3:12

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.6	44.4
170	24.8	20.1	30.1

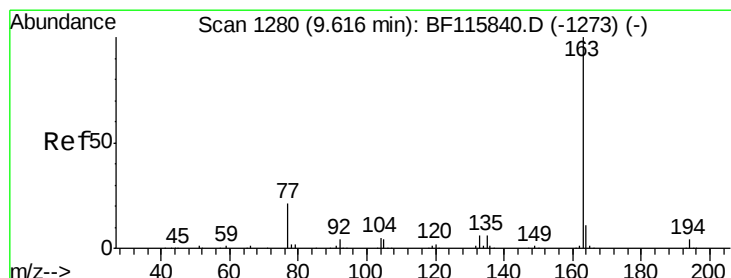
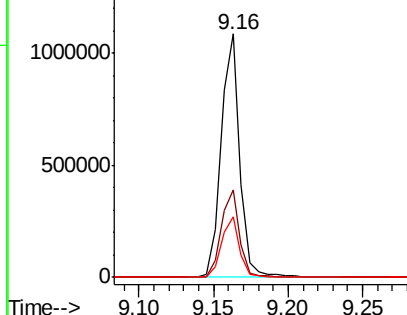
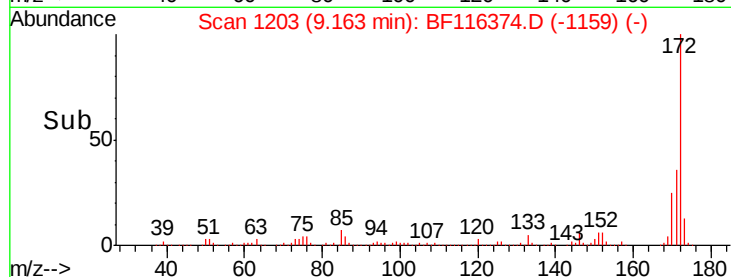


Abundance

Ion 172.00 (171.70 to 172.70): E

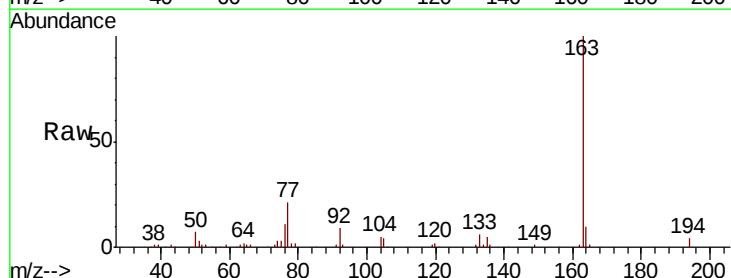
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#50
Dimethylphthalate
Concen: 7.161 ng
RT: 9.56 min Scan# 1270
Delta R.T. -0.05 min
Lab File: BF116374.D
Acq: 18 Aug 2019 3:12

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.6	3.0	4.6
164	10.3	8.4	12.6

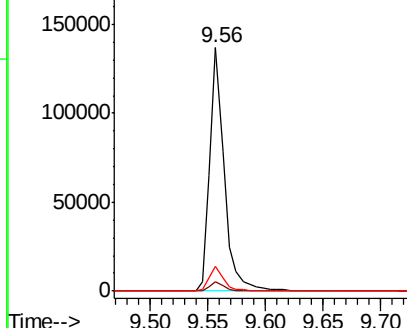
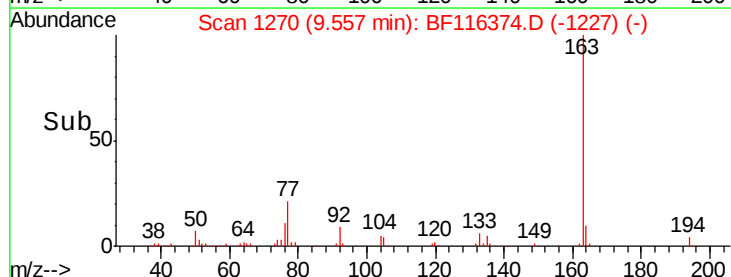


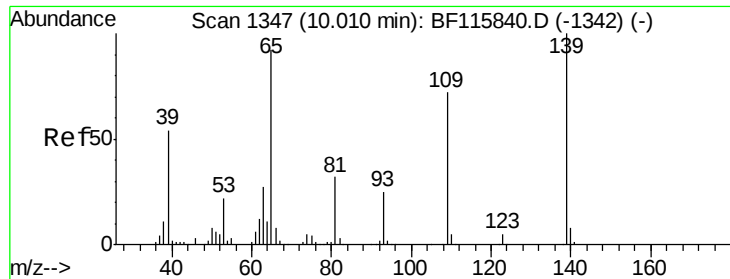
Abundance

Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#56

4-Nitrophenol

Concen: 2.799 ng

RT: 10.06 min Scan# 1355

Delta R.T. 0.05 min

Lab File: BF116374.D

Acq: 18 Aug 2019 3:12

Instrument :

BNA_F

ClientSampleId :

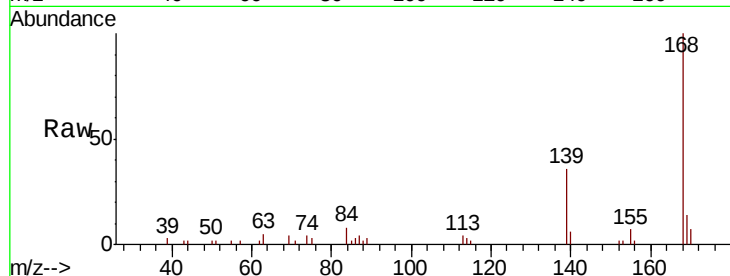
Tot Ion:139 Resp: 8098

Ion Ratio Lower Upper

139 100

109 0.0 54.4 94.4#

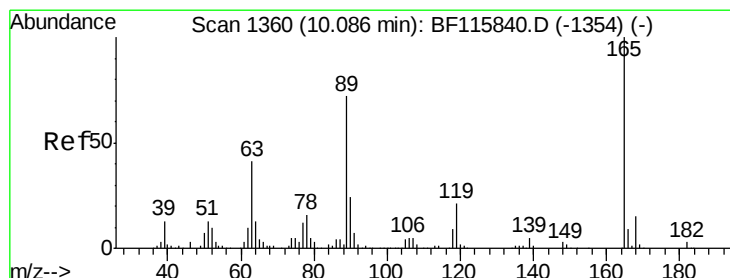
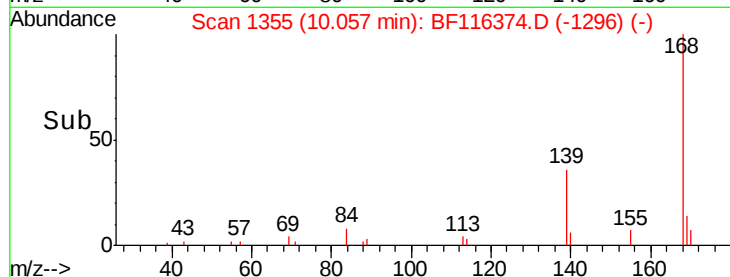
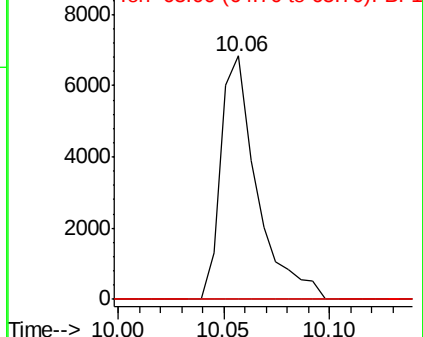
65 0.0 80.6 120.6#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1



#57

2,4-Dinitrotoluene

Concen: 6.599 ng

RT: 9.84 min Scan# 1318

Delta R.T. -0.24 min

Lab File: BF116374.D

Acq: 18 Aug 2019 3:12

Tgt Ion:165 Resp: 32108

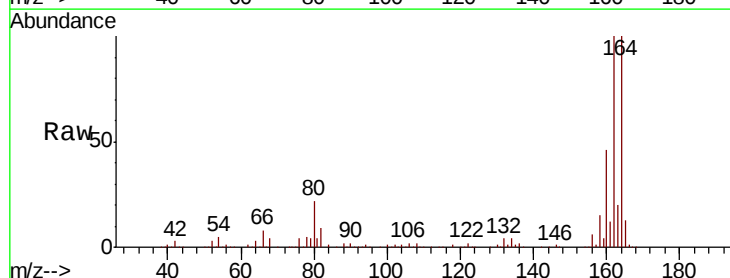
Ion Ratio Lower Upper

165 100

63 1.4 39.6 59.4#

89 1.5 62.2 93.2#

182 0.0 2.1 3.1#

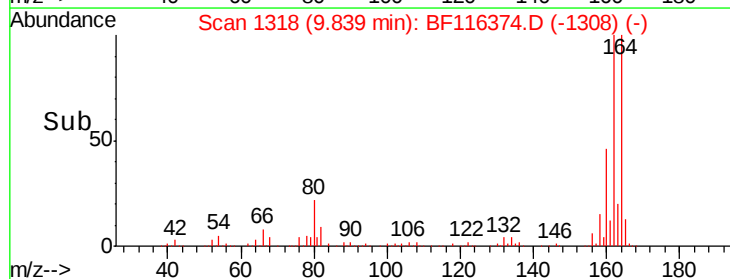
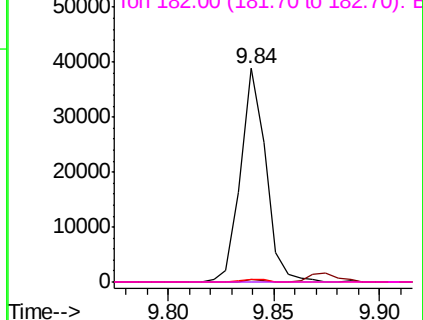


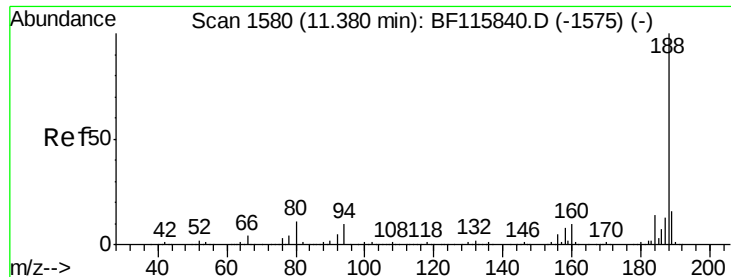
Abundance Ion 165.00 (164.70 to 165.70): E

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

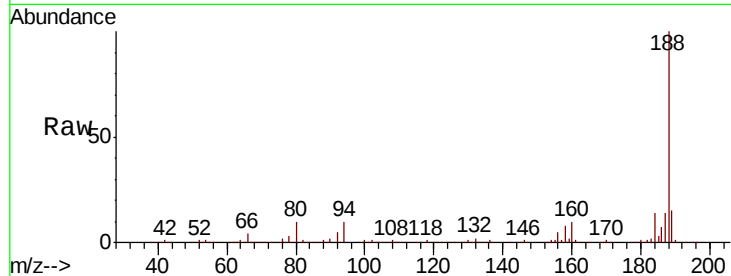




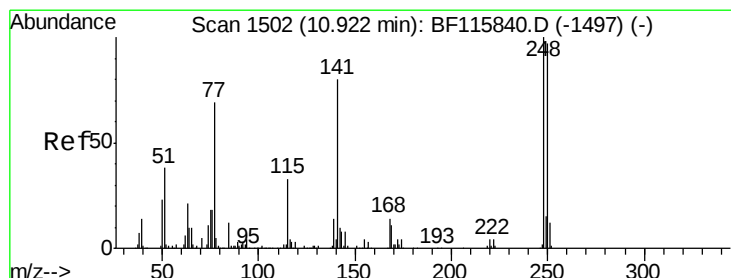
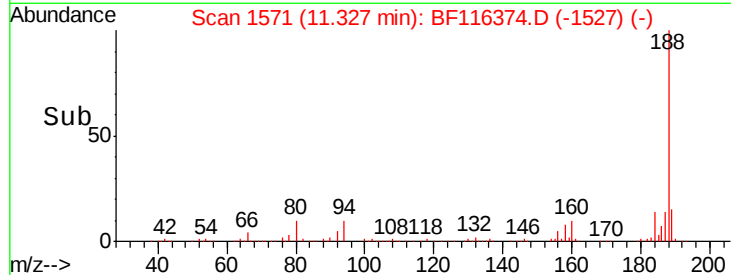
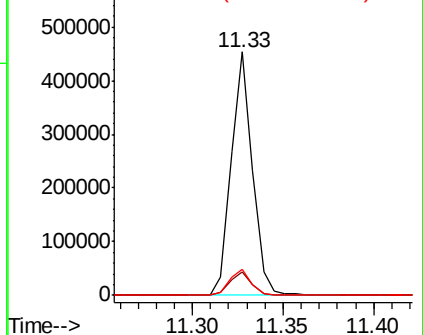
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1571
Delta R.T. -0.04 min
Lab File: BF116374.D
Acq: 18 Aug 2019 3:12

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 370185
Ion Ratio Lower Upper
188 100
94 9.6 8.1 12.1
80 10.5 8.7 13.1

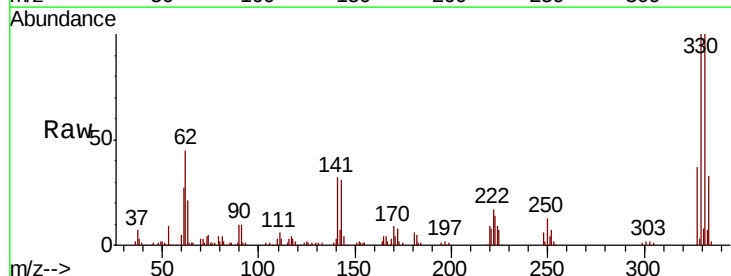


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

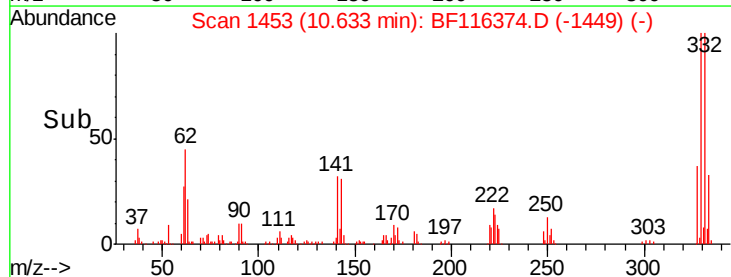
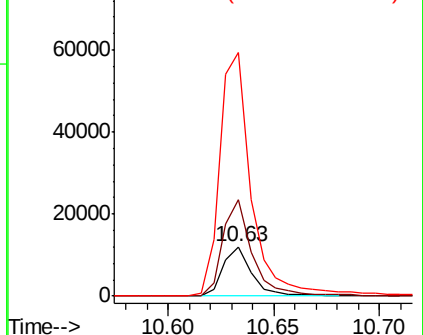


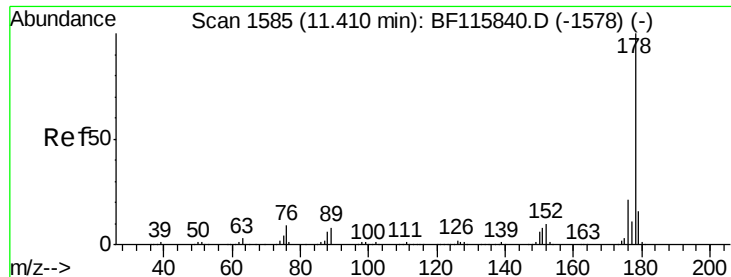
#67
4-Bromophenyl-phenylether
Concen: 2.856 ng
RT: 10.63 min Scan# 1453
Delta R.T. -0.28 min
Lab File: BF116374.D
Acq: 18 Aug 2019 3:12

Tgt Ion:248 Resp: 11317
Ion Ratio Lower Upper
248 100
250 196.1 77.4 116.2#
141 493.4 56.8 85.2#



Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

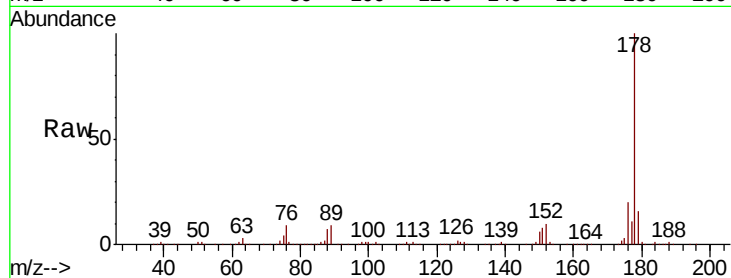




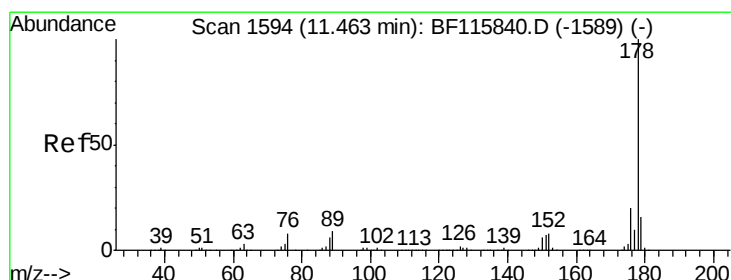
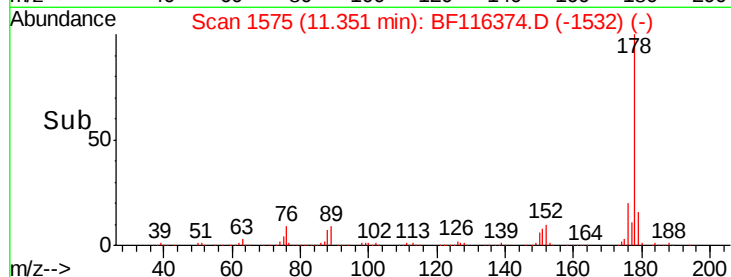
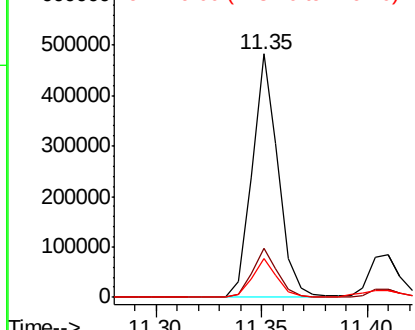
#71
Phenanthrene
Concen: 21.729 ng
RT: 11.35 min Scan# 1575
Delta R.T. -0.05 min
Lab File: BF116374.D
Acq: 18 Aug 2019 3:12

Instrument :
BNA_F
ClientSampleId :

Tot Ion:178 Resp: 411207
Ion Ratio Lower Upper
178 100
176 20.1 16.6 24.8
179 15.7 12.5 18.7

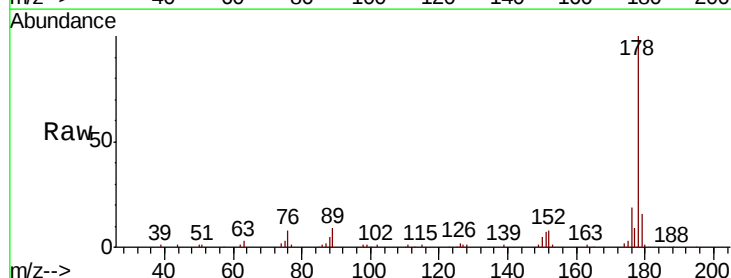


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

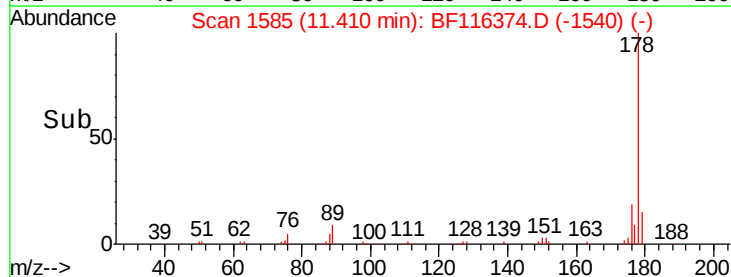
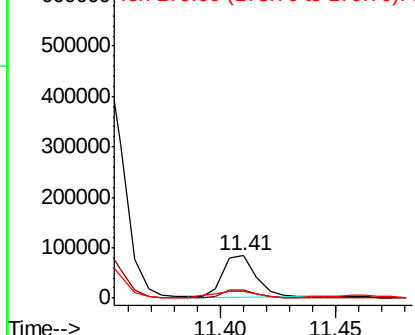


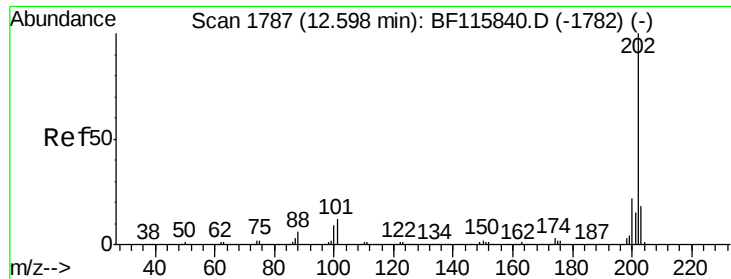
#72
Anthracene
Concen: 4.445 ng
RT: 11.41 min Scan# 1585
Delta R.T. -0.04 min
Lab File: BF116374.D
Acq: 18 Aug 2019 3:12

Tgt Ion:178 Resp: 85130
Ion Ratio Lower Upper
178 100
176 18.7 15.7 23.5
179 15.5 13.0 19.6



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: 35.616 ng

RT: 12.54 min Scan# 1778

Delta R.T. -0.04 min

Lab File: BF116374.D

Acq: 18 Aug 2019 3:12

Instrument :

BNA_F

ClientSampled :

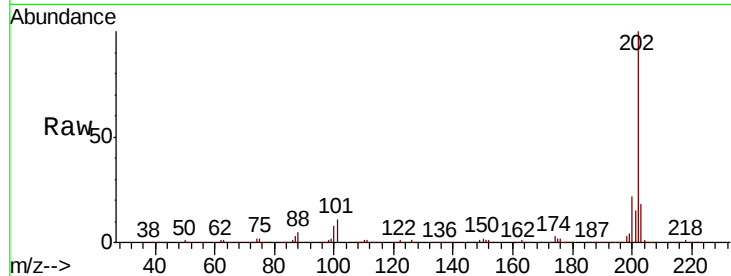
Tot Ion:202 Resp: 705642

Ion Ratio Lower Upper

202 100

101 10.9 0.0 31.2

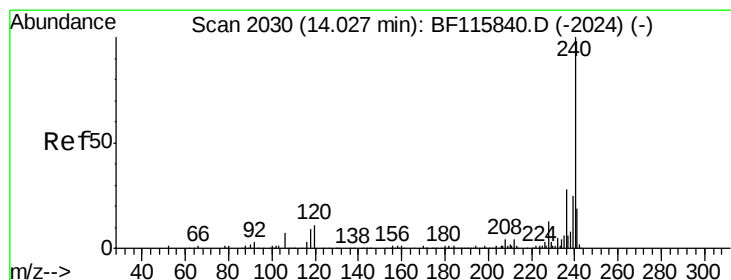
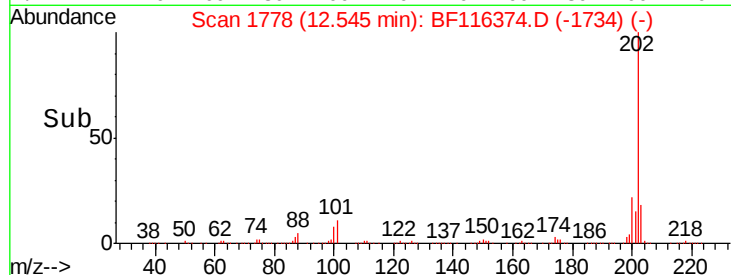
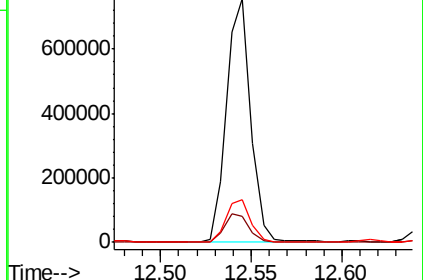
203 17.7 0.0 37.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2020

Delta R.T. -0.04 min

Lab File: BF116374.D

Acq: 18 Aug 2019 3:12

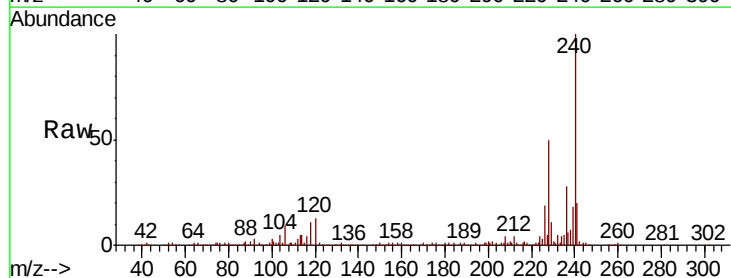
Tgt Ion:240 Resp: 233667

Ion Ratio Lower Upper

240 100

120 12.8 10.7 16.1

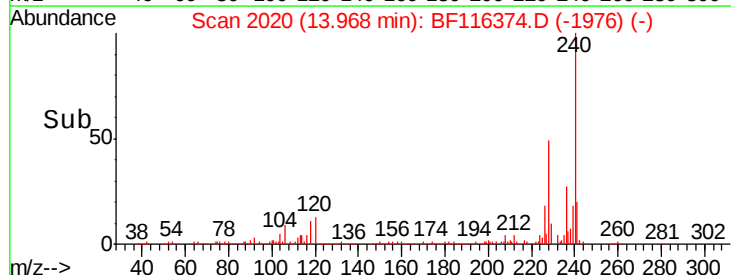
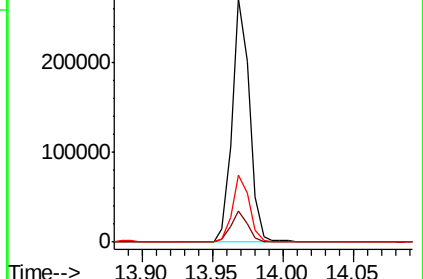
236 27.6 22.2 33.2

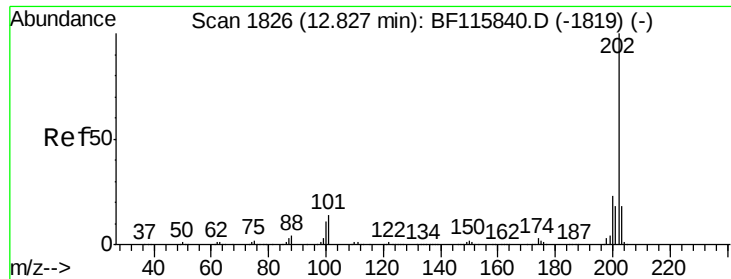


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

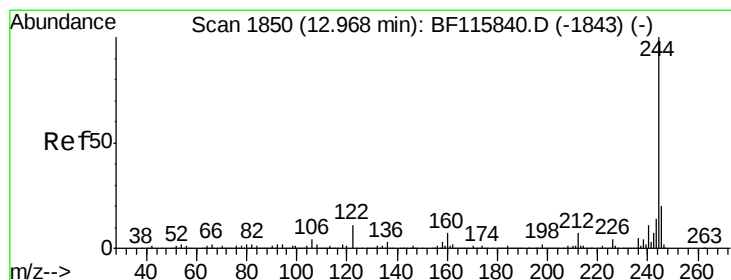
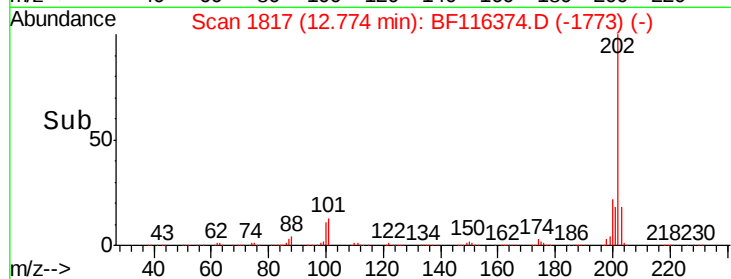
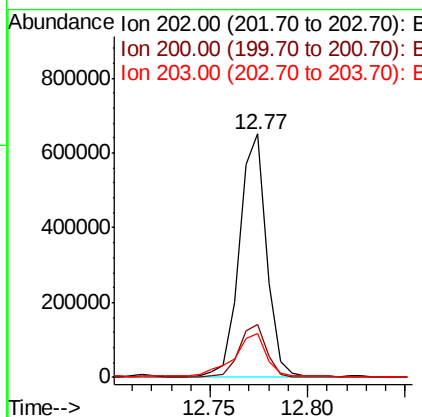
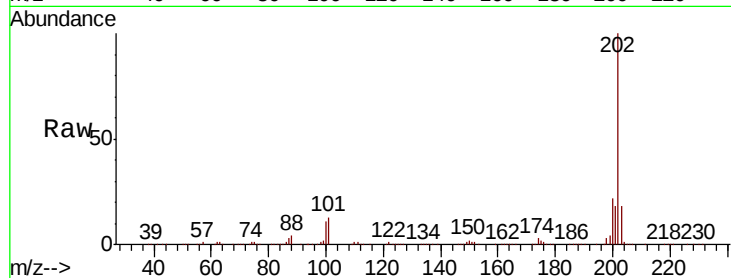




#78
Pvrene
Concen: 35.580 ng
RT: 12.77 min Scan# 1817
Delta R.T. -0.04 min
Lab File: BF116374.D
Acq: 18 Aug 2019 3:12

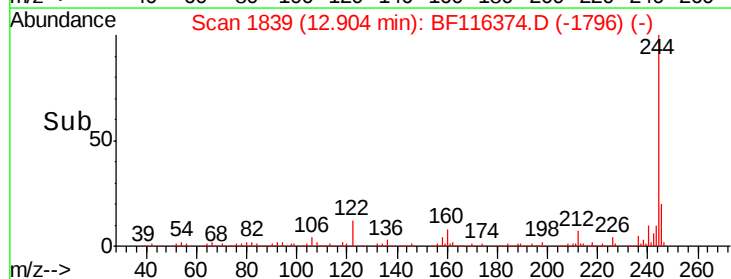
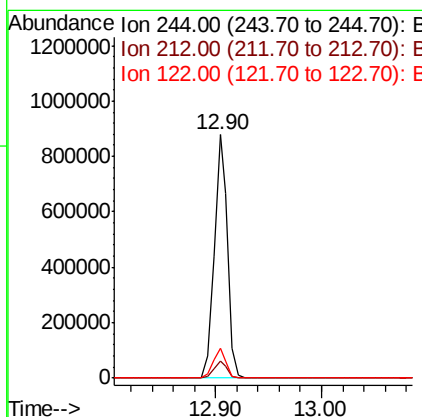
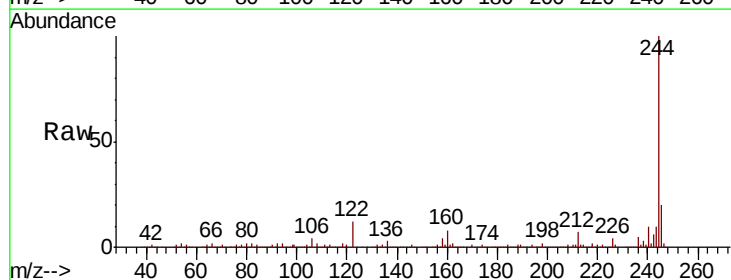
Instrument :
BNA_F
ClientSampleId :

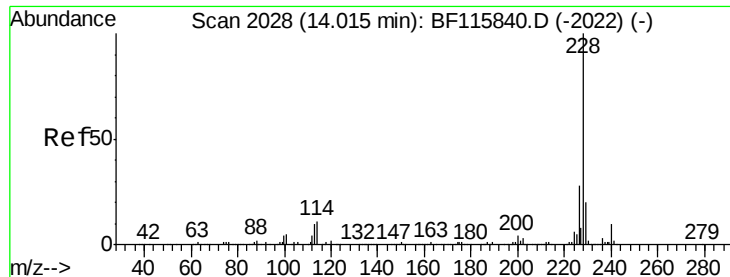
Tot Ion:202 Resp: 626713
Ion Ratio Lower Upper
202 100
200 21.6 18.0 27.0
203 17.9 14.1 21.1



#79
Terphenyl-d14
Concen: 70.044 ng
RT: 12.90 min Scan# 1839
Delta R.T. -0.05 min
Lab File: BF116374.D
Acq: 18 Aug 2019 3:12

Tgt Ion:244 Resp: 776727
Ion Ratio Lower Upper
244 100
212 6.9 5.8 8.8
122 12.2 9.0 13.4

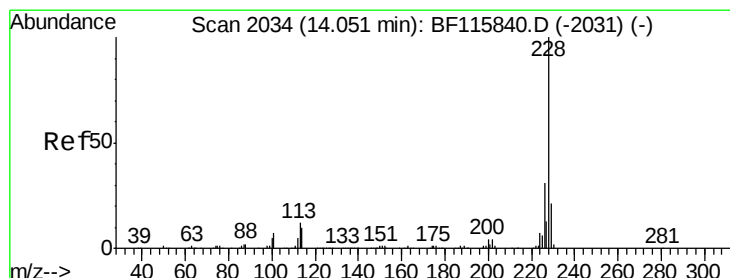
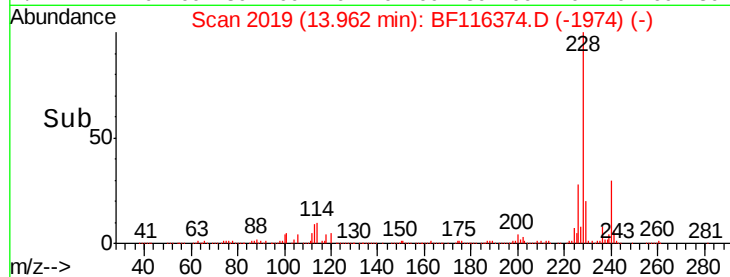
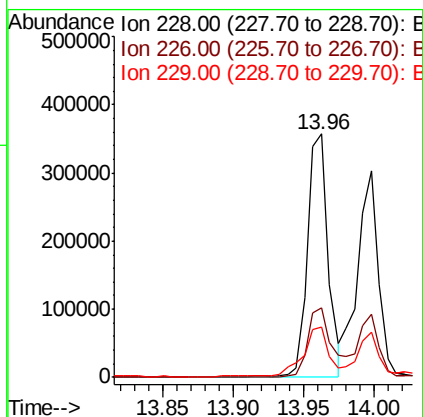
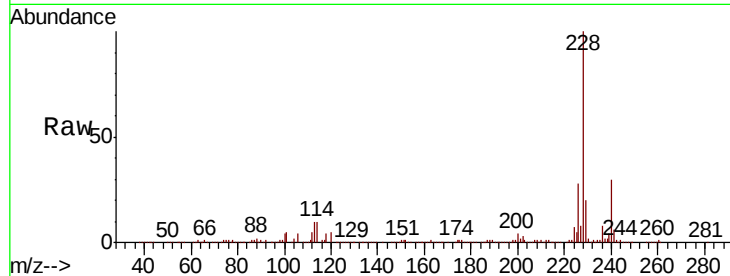




#81
Benzo(a)anthracene
Concen: 24.096 ng
RT: 13.96 min Scan# 2019
Delta R.T. -0.04 min
Lab File: BF116374.D
Acq: 18 Aug 2019 3:12

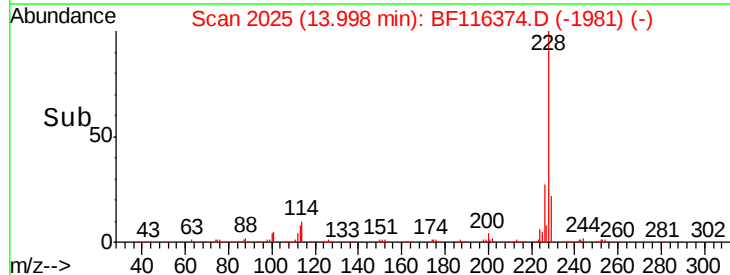
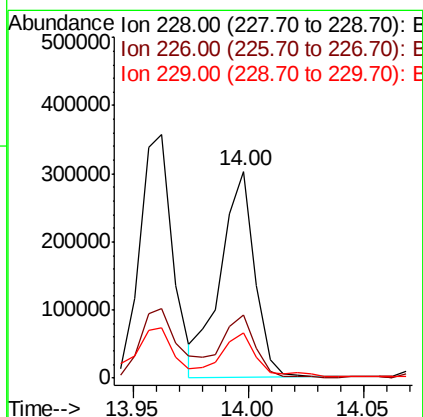
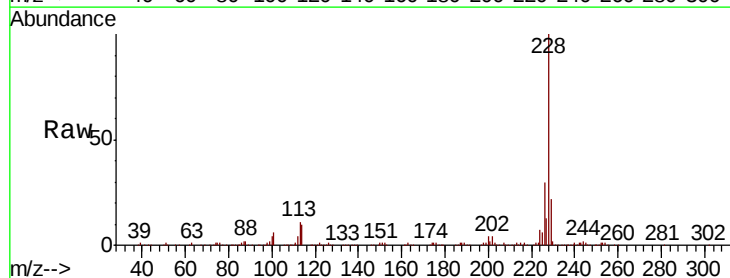
Instrument :
BNA_F
ClientSampled :

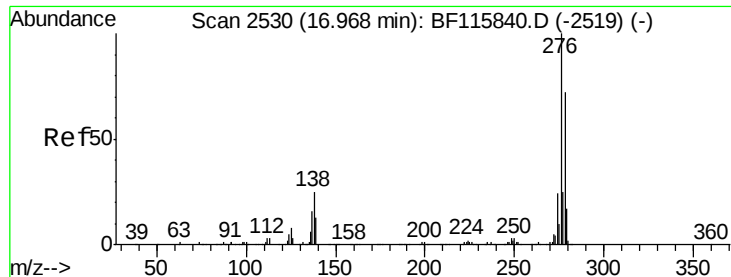
Tot Ion:228 Resp: 359880
Ion Ratio Lower Upper
228 100
226 28.5 22.7 34.1
229 20.4 16.2 24.4



#83
Chrysene
Concen: 21.410 ng
RT: 14.00 min Scan# 2025
Delta R.T. -0.04 min
Lab File: BF116374.D
Acq: 18 Aug 2019 3:12

Tgt Ion:228 Resp: 310433
Ion Ratio Lower Upper
228 100
226 30.3 25.5 38.3
229 21.9 16.6 24.8





#86

Indeno(1,2,3-cd)pyrene

Concen: 12.839 ng

RT: 16.89 min Scan# 2517

Delta R.T. -0.06 min

Lab File: BF116374.D

Acq: 18 Aug 2019 3:12

Instrument :

BNA_F

ClientSampleId :

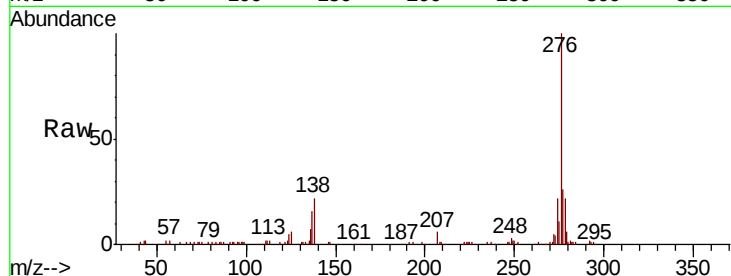
Tot Ion:276 Resp: 156359

Ion Ratio Lower Upper

276 100

138 21.9 20.4 30.6

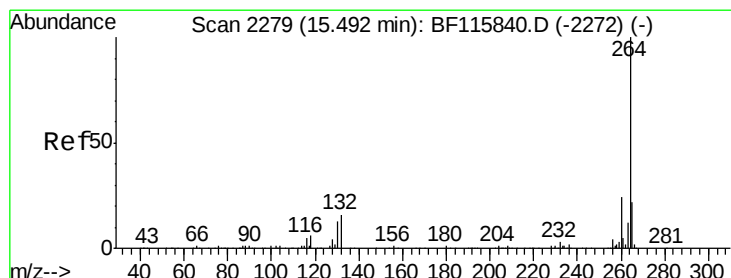
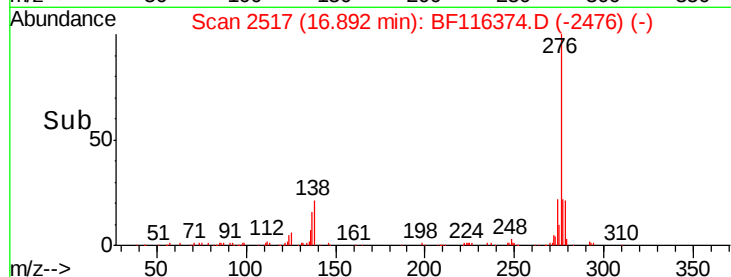
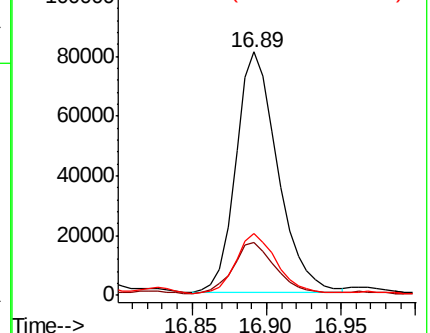
277 23.9 20.0 30.0



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

Perylene-d12

Concen: 20.000 ng

RT: 15.43 min Scan# 2268

Delta R.T. -0.05 min

Lab File: BF116374.D

Acq: 18 Aug 2019 3:12

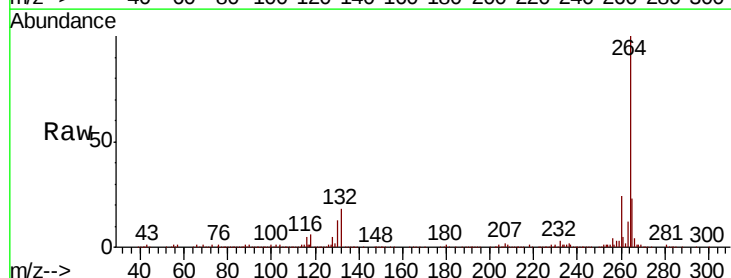
Tgt Ion:264 Resp: 271693

Ion Ratio Lower Upper

264 100

260 23.8 19.7 29.5

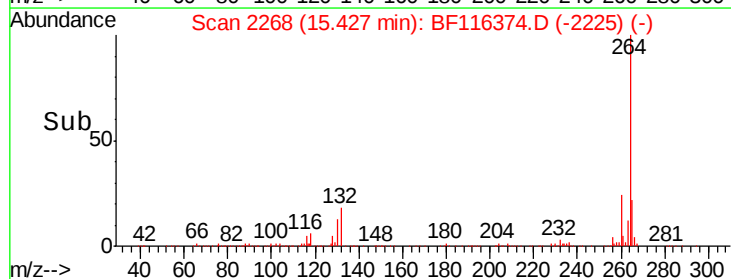
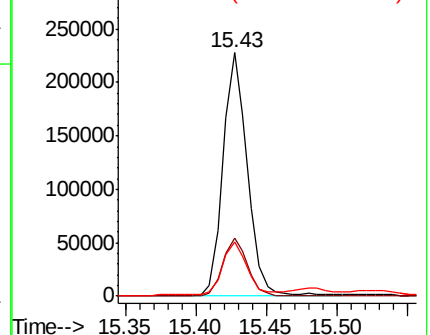
265 22.5 17.4 26.0

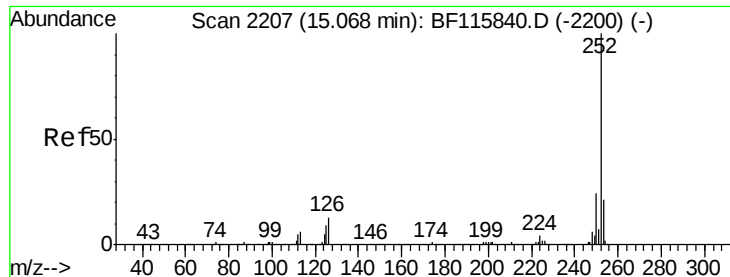


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#88

Benzo(b)fluoranthene

Concen: 34.300 ng

RT: 15.01 min Scan# 2197

Delta R.T. -0.04 min

Lab File: BF116374.D

Acq: 18 Aug 2019 3:12

Instrument :

BNA_F

ClientSampleId :

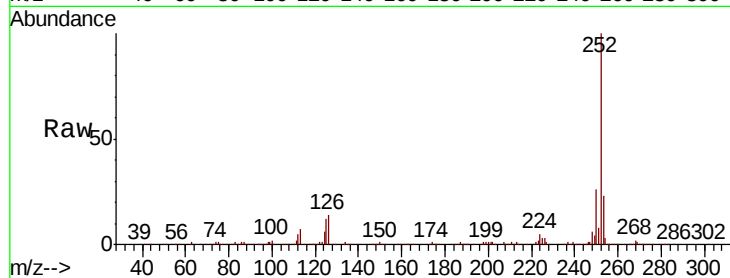
Tot Ion:252 Resp: 538847

Ion Ratio Lower Upper

252 100

253 23.3 17.8 26.8

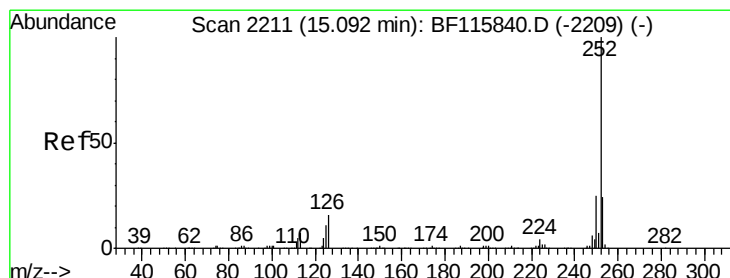
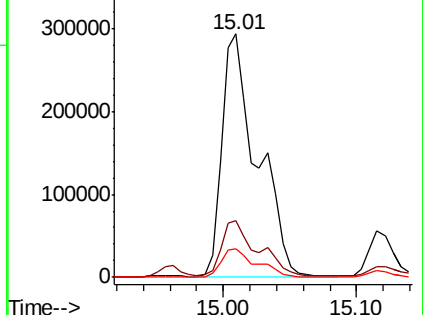
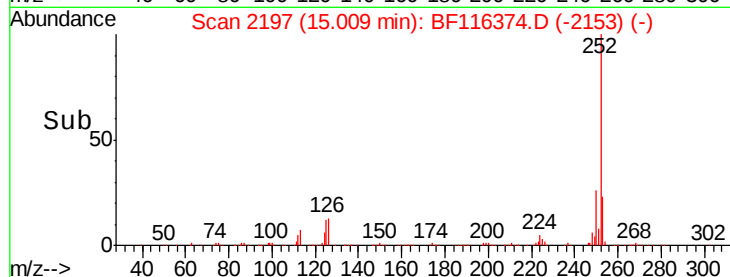
125 11.6 8.4 12.6



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



#89

Benzo(k)fluoranthene

Concen: 35.216 ng

RT: 15.01 min Scan# 2197

Delta R.T. -0.07 min

Lab File: BF116374.D

Acq: 18 Aug 2019 3:12

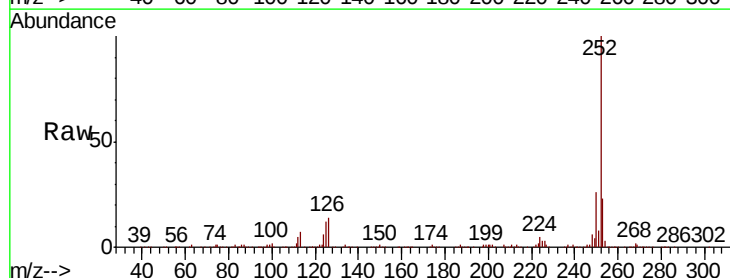
Tgt Ion:252 Resp: 538847

Ion Ratio Lower Upper

252 100

253 23.3 17.8 26.8

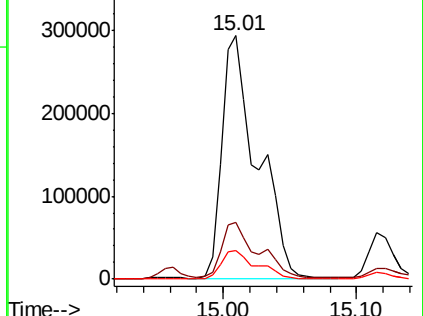
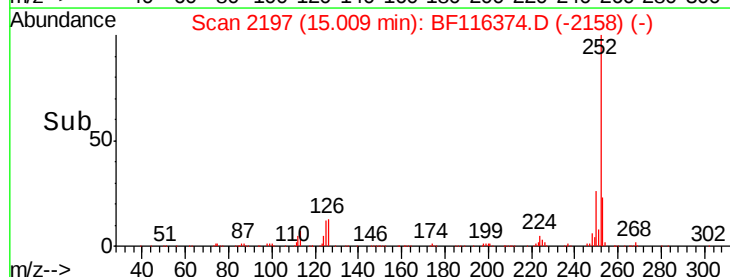
125 11.6 7.7 11.5#

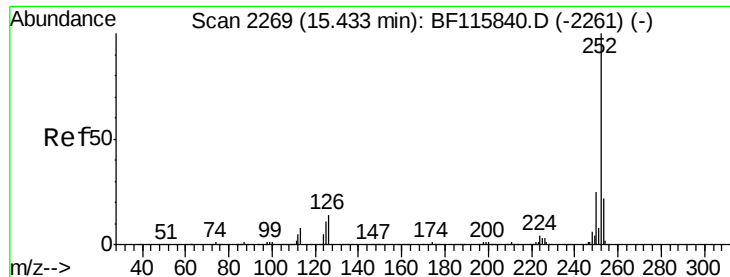


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 21.473 ng

RT: 15.37 min Scan# 2258

Delta R.T. -0.05 min

Lab File: BF116374.D

Acq: 18 Aug 2019 3:12

Instrument :

BNA_F

ClientSampleId :

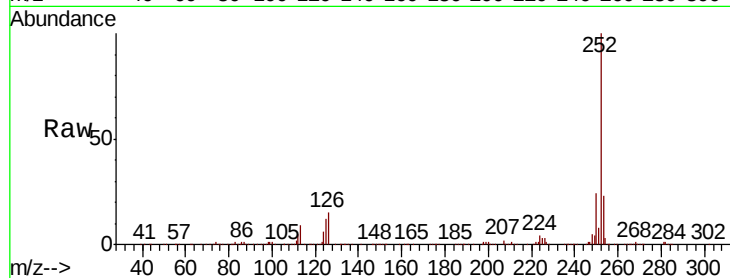
Tot Ion:252 Resp: 301555

Ion Ratio Lower Upper

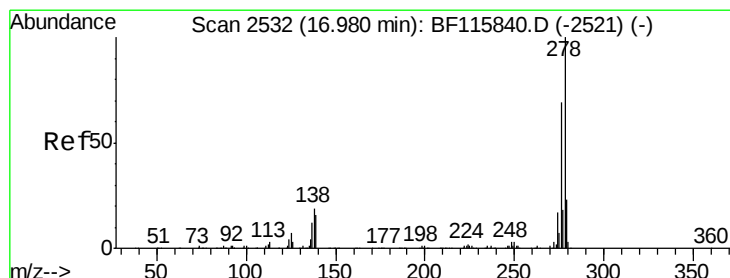
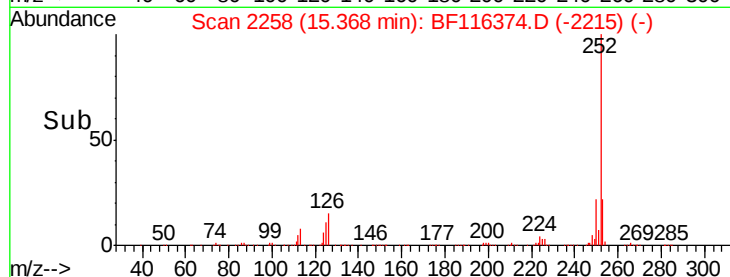
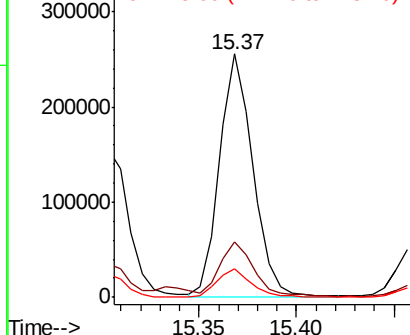
252 100

253 22.7 18.0 27.0

125 11.5 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



#91

Dibenzo(a,h)anthracene

Concen: 3.037 ng

RT: 17.06 min Scan# 2546

Delta R.T. 0.11 min

Lab File: BF116374.D

Acq: 18 Aug 2019 3:12

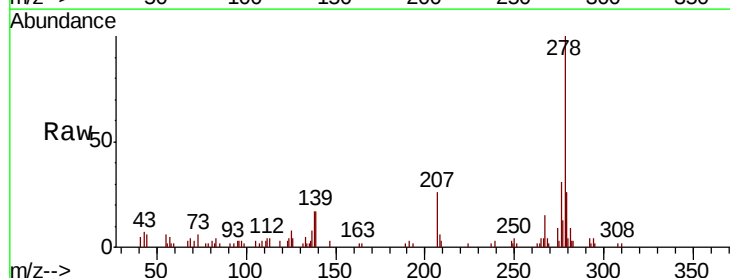
Tgt Ion:278 Resp: 36921

Ion Ratio Lower Upper

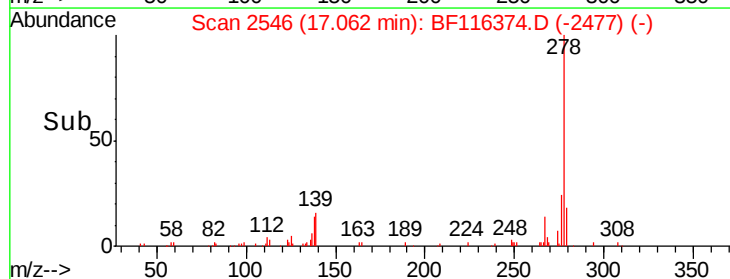
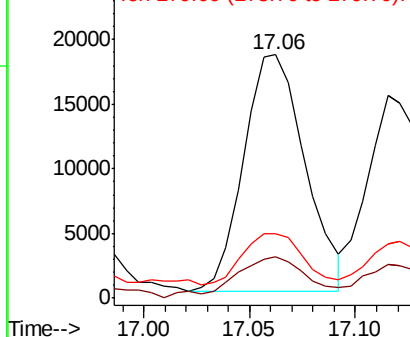
278 100

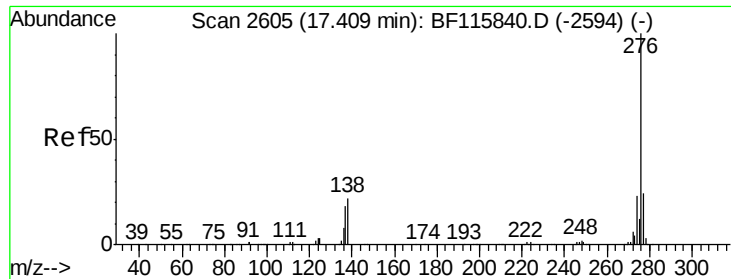
139 16.9 12.8 19.2

279 26.3 18.8 28.2



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E

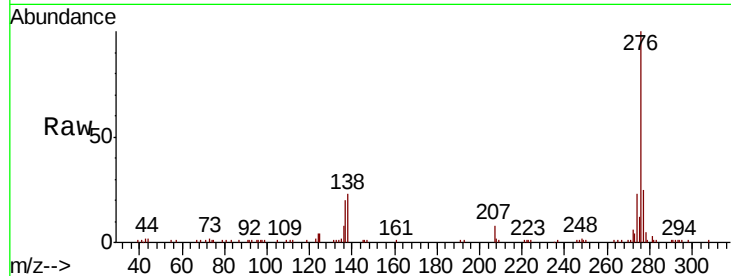




#92
 Benzo(a,h,i)perylene
 Concen: 11.264 ng
 RT: 17.33 min Scan# 2592
 Delta R.T. -0.05 min
 Lab File: BF116374.D
 Acq: 18 Aug 2019 3:12

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.3	18.4	27.6
138	22.9	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

