

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF061516\
 Data File : BF088041.D
 Acq On : 15 Jun 2016 18:40
 Operator : UM/SJ
 Sample : H3510-01
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HSR-WC-52-060916

Quant Time: Jun 16 03:08:21 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 13 14:10:49 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.74	152	109854	20.00	ng	-0.05
21) Naphthalene-d8	8.03	136	423809	20.00	ng	-0.05
38) Acenaphthene-d10	9.78	164	100637	20.00	ng	-0.06
63) Phenanthrene-d10	11.26	188	287518	20.00	ng	-0.06
75) Chrysene-d12	13.89	240	72969	20.00	ng	-0.07
86) Perylene-d12	15.29	264	1546	20.00	ng	-0.07

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.35	112	743304	115.67	ng	-0.03
7) Phenol-d6	6.39	99	546270	70.15	ng	-0.05
23) Nitrobenzene-d5	7.31	82	624315	86.02	ng	-0.05
41) 2,4,6-Tribromophenol	10.57	330	219525	206.59	ng	-0.06
44) 2-Fluorobiphenyl	9.11	172	979584	157.64	ng	-0.06
78) Terphenyl-d14	12.84	244	760274	237.09	ng	-0.06

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.40	94	479	Below Cal	#	1
19) n-Nitroso-di-n-propylamine	7.04	70	12884	2.59 ng	#	31
45) 1,1'-Biphenyl	9.21	154	1904	Below Cal		88
50) 2,6-Dinitrotoluene	9.78	165	12658	7.58 ng	#	43
56) 2,4-Dinitrotoluene	9.78	165	12658	5.90 ng	#	41
57) Fluorene	10.33	166	3618	Below Cal		93
64) 4,6-Dinitro-2-methylphenol	10.57	198	368	2.36 ng	#	1
80) Benzo(a)anthracene	13.92	228	12280	2.95 ng		98
82) Chrysene	13.92	228	12280	3.14 ng		94
87) Benzo(b)fluoranthene	14.90	252	4883	45.32 ng	#	92
88) Benzo(k)fluoranthene	14.90	252	4883	60.07 ng		97
89) Benzo(a)pyrene	15.25	252	368	4.22 ng	#	57
90) Dibenzo(a,h)anthracene	16.65	278	1310	16.18 ng	#	54
91) Benzo(g,h,i)perylene	17.05	276	874	10.49 ng	#	50

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.74 min Scan# 451

Delta R.T. -0.05 min

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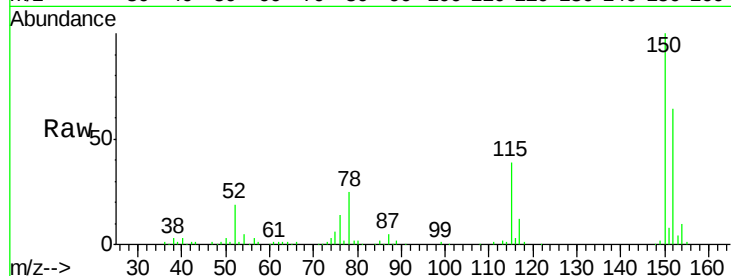
Tgt Ion:152 Resp: 109854

Ion Ratio Lower Upper

152 100

150 157.1 123.8 185.6

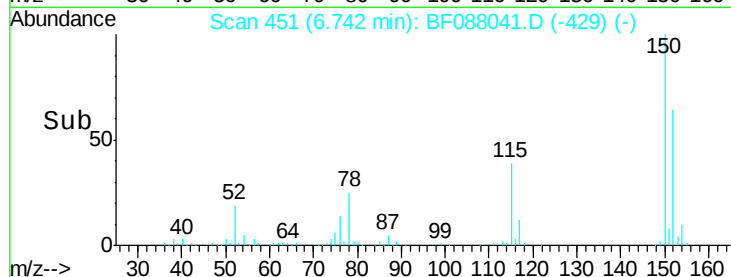
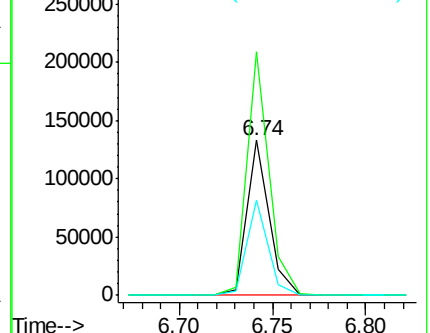
115 61.7 39.6 59.4#



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: 115.67 ng

RT: 5.35 min Scan# 329

Delta R.T. -0.03 min

Lab File: BF088041.D

Acq: 15 Jun 2016 18:40

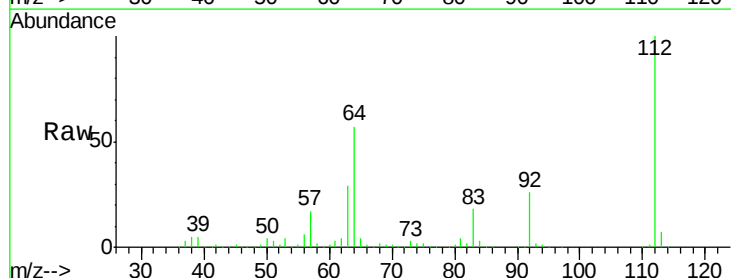
Tgt Ion:112 Resp: 743304

Ion Ratio Lower Upper

112 100

64 56.6 42.2 63.2

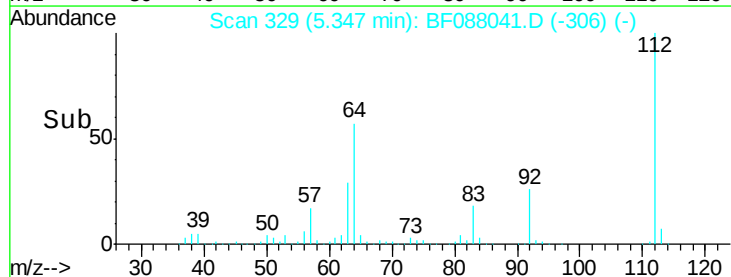
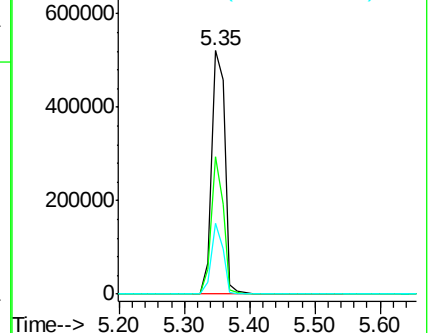
63 29.1 21.8 32.8

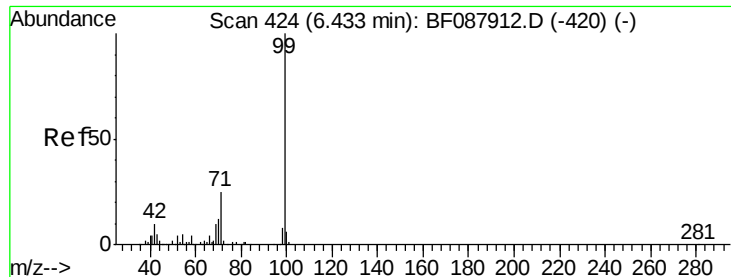


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 70.15 ng

RT: 6.39 min Scan# 420

Delta R.T. -0.05 min

Lab File: BF088041.D

Acq: 15 Jun 2016 18:40

Instrument :

BNA_F

ClientSampleId :

HSR-WC-52-060916

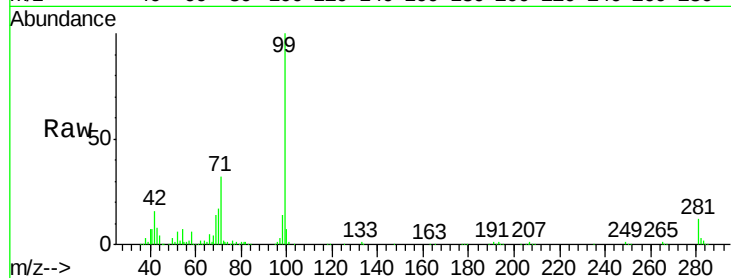
Tgt Ion: 99 Resp: 546270

Ion Ratio Lower Upper

99 100

42 16.4 12.2 18.2

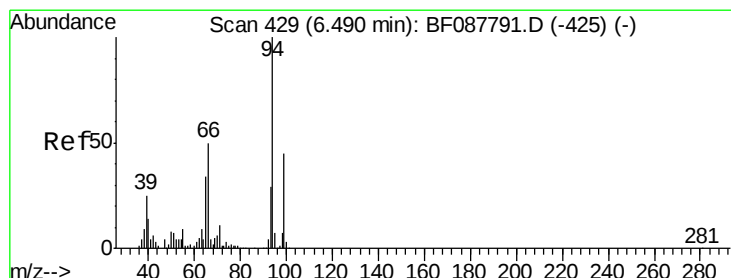
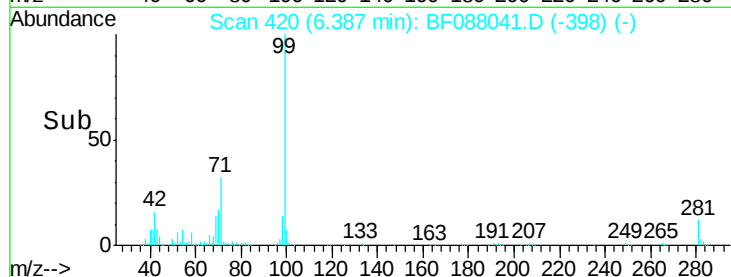
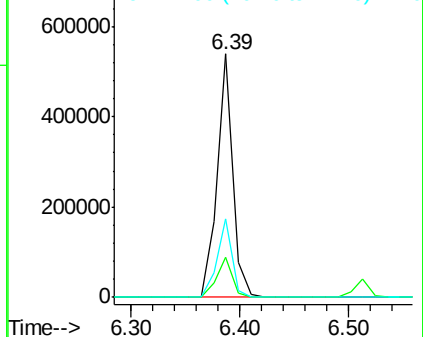
71 32.3 23.4 35.0



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: Below Cal

RT: 6.40 min Scan# 421

Delta R.T. -0.05 min

Lab File: BF088041.D

Acq: 15 Jun 2016 18:40

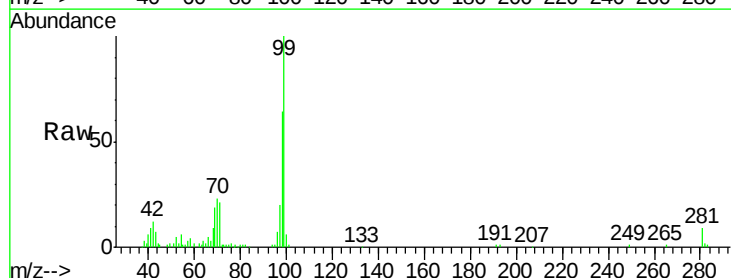
Tgt Ion: 94 Resp: 479

Ion Ratio Lower Upper

94 100

65 255.2 5.9 45.9#

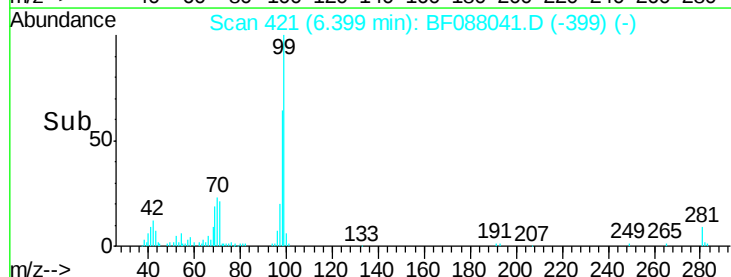
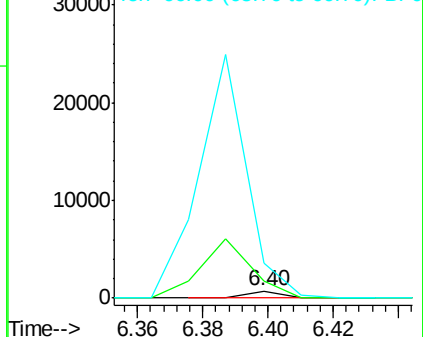
66 513.0 14.0 54.0#



Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#19

n-Nitroso-di-n-propylamine

Concen: 2.59 ng

RT: 7.04 min Scan# 477

Delta R.T. -0.18 min

Lab File: BF088041.D

Acq: 15 Jun 2016 18:40

Instrument :

BNA_F

ClientSampleId :

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Tgt Ion: 70 Resp: 12884

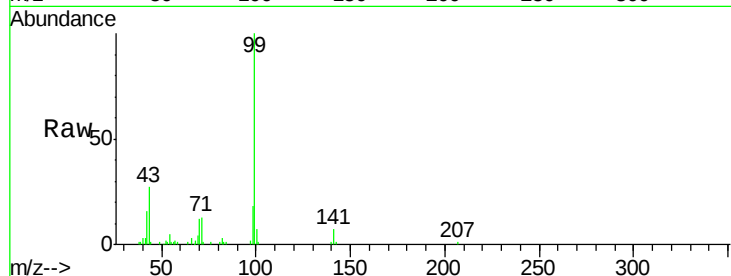
Ion Ratio Lower Upper

70 100

42 127.6 49.6 74.4#

101 6.1 7.1 10.7#

130 0.0 15.4 23.2#



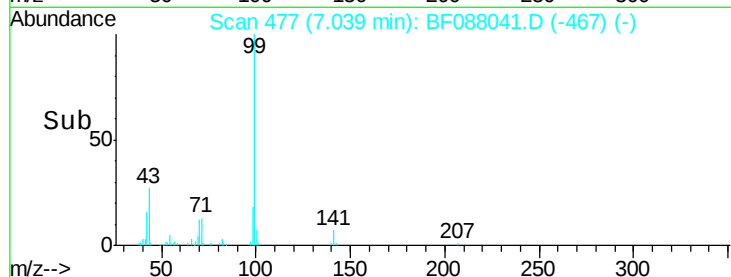
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

Time-->



Abundance

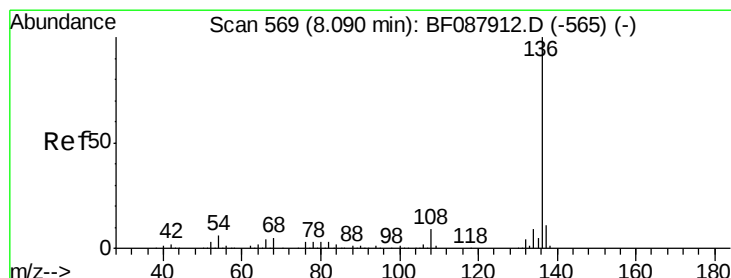
Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

Time-->



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.03 min Scan# 564

Delta R.T. -0.05 min

Lab File: BF088041.D

Acq: 15 Jun 2016 18:40

Tgt Ion: 136 Resp: 423809

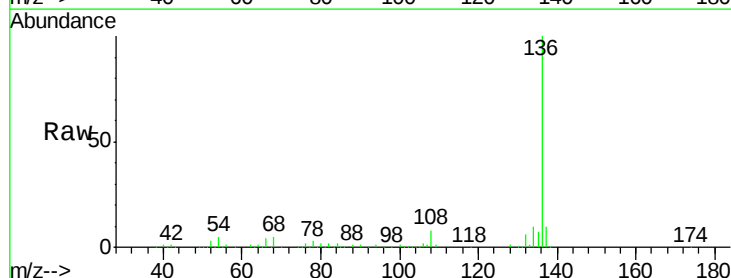
Ion Ratio Lower Upper

136 100

137 10.4 9.1 13.7

54 4.8 6.6 10.0#

68 4.6 5.1 7.7#



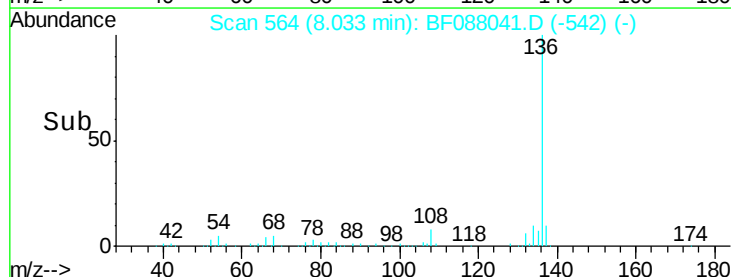
Abundance Ion 136.00 (135.70 to 136.70): BF0

Ion 137.00 (136.70 to 137.70): BF0

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

Time-->



Abundance

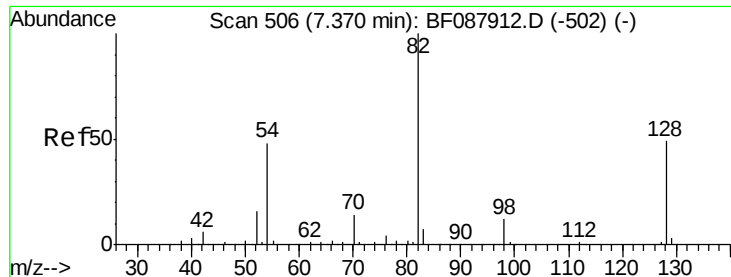
Ion 136.00 (135.70 to 136.70): BF0

Ion 137.00 (136.70 to 137.70): BF0

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

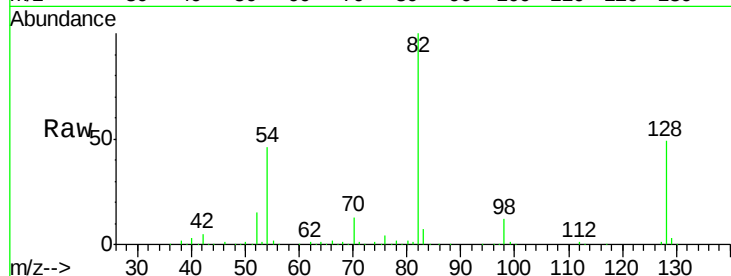
Time-->



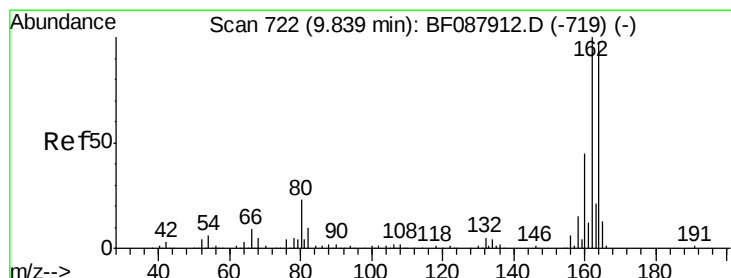
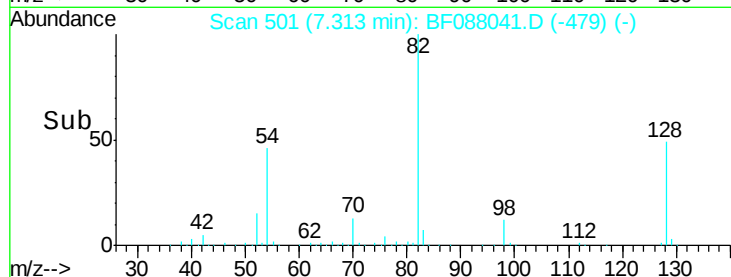
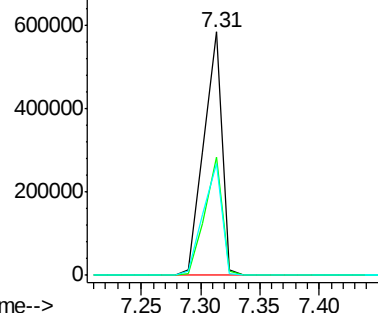
#23
Nitrobenzene-d5
Concen: 86.02 ng
RT: 7.31 min Scan# 501
Delta R.T. -0.05 min
Lab File: BF088041.D
Acq: 15 Jun 2016 18:40

Instrument :
BNA_F
ClientSampleId :
HSR-WC-52-060916

Tgt Ion	Ratio	Lower	Upper
82	100		
128	48.6	35.9	53.9
54	45.9	40.9	61.3

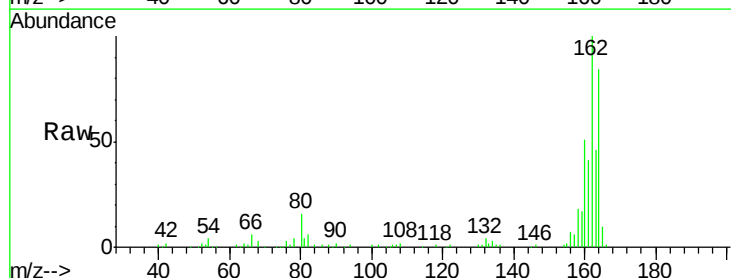


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): B
Ion 54.00 (53.70 to 54.70): BF0

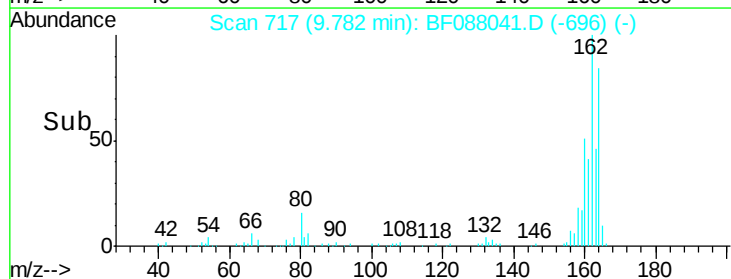
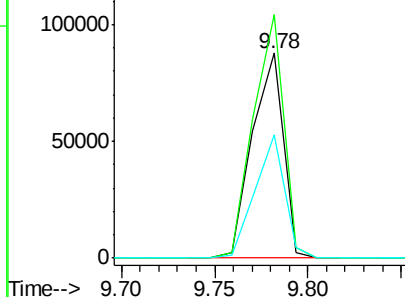


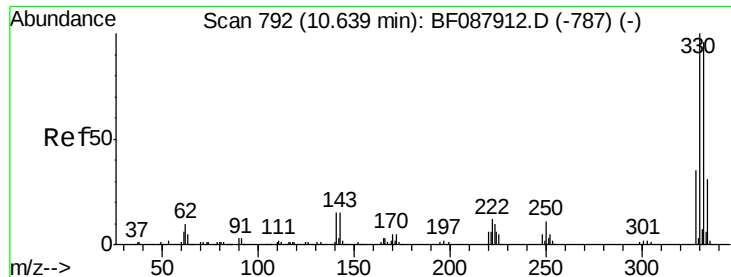
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.78 min Scan# 717
Delta R.T. -0.06 min
Lab File: BF088041.D
Acq: 15 Jun 2016 18:40

Tgt Ion	Ratio	Lower	Upper
164	100		
162	118.7	85.4	128.2
160	60.0	39.5	59.3#



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

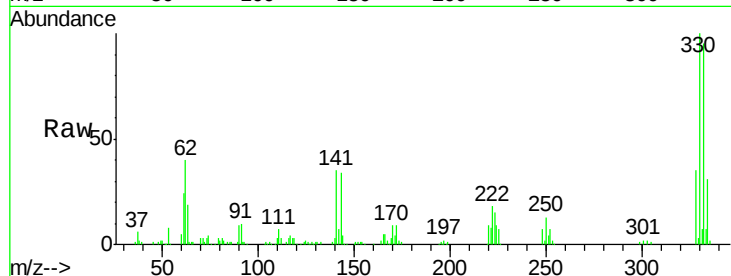




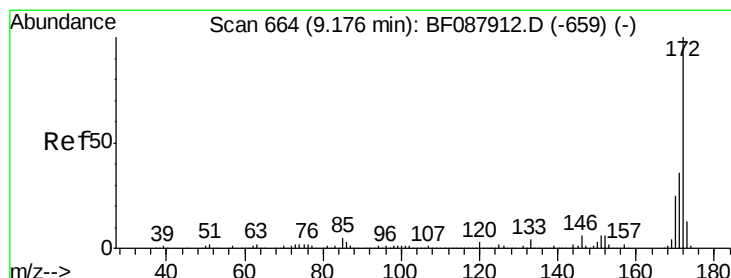
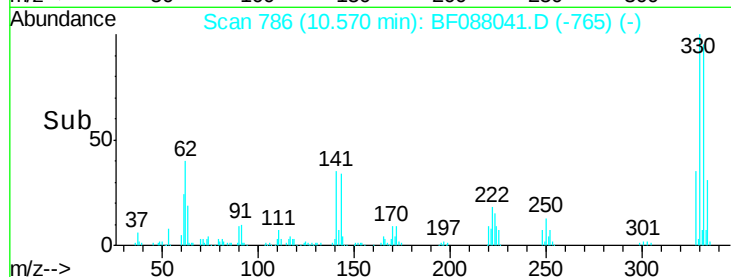
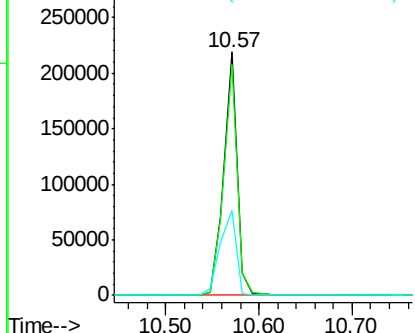
#41
 2,4,6-Tribromophenol
 Concen: 206.59 ng
 RT: 10.57 min Scan# 786
 Delta R.T. -0.06 min
 Lab File: BF088041.D
 Acq: 15 Jun 2016 18:40

Instrument :
 BNA_F
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Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.4	0.0	0.0#
141	41.5	0.0	0.0#

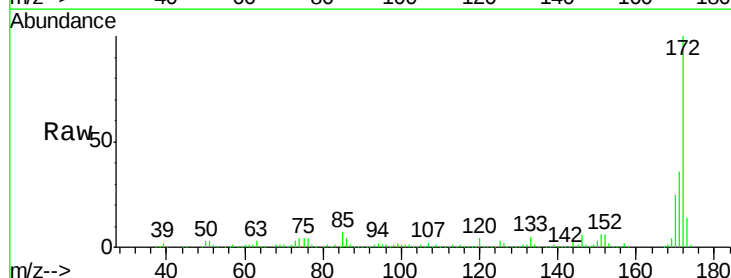


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

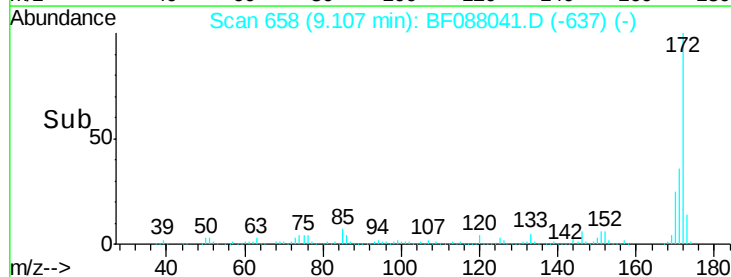
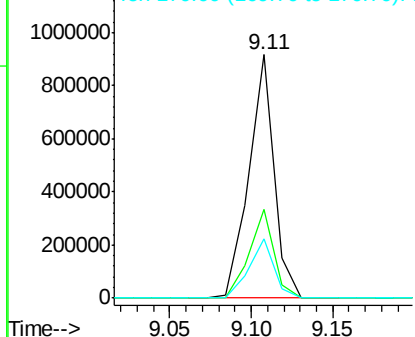


#44
 2-Fluorobiphenyl
 Concen: 157.64 ng
 RT: 9.11 min Scan# 658
 Delta R.T. -0.06 min
 Lab File: BF088041.D
 Acq: 15 Jun 2016 18:40

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.5	28.6	43.0
170	24.5	19.2	28.8



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





#45

1,1'-Biphenyl

Concen: Below Cal

RT: 9.21 min Scan# 667

Delta R.T. -0.06 min

Lab File: BF088041.D

Acq: 15 Jun 2016 18:40

Instrument :

BNA_F

ClientSampleId :

HSR-WC-52-060916

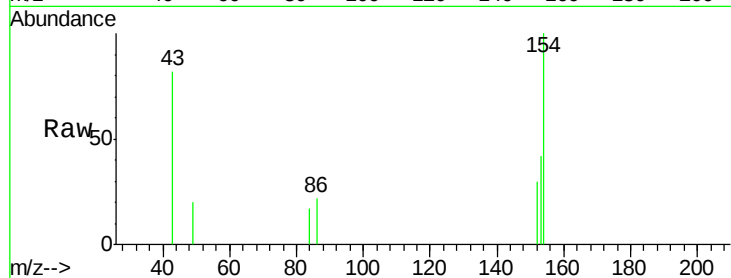
Tgt Ion:154 Resp: 1904

Ion Ratio Lower Upper

154 100

153 42.2 20.6 60.6

76 0.0 0.0 35.1

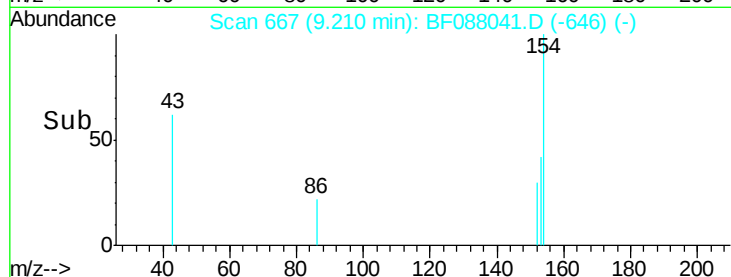


Abundance Ion 154.00 (153.70 to 154.70): E

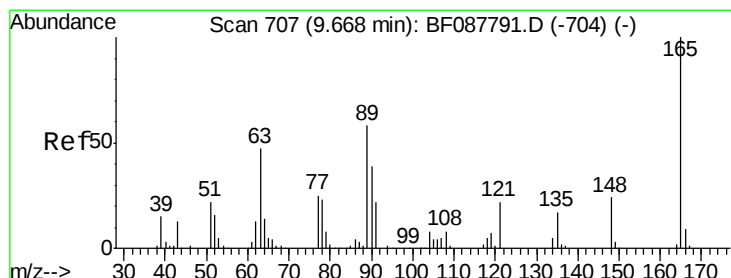
Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0

Time-->



Time-->



#50

2,6-Dinitrotoluene

Concen: 7.58 ng

RT: 9.78 min Scan# 717

Delta R.T. 0.16 min

Lab File: BF088041.D

Acq: 15 Jun 2016 18:40

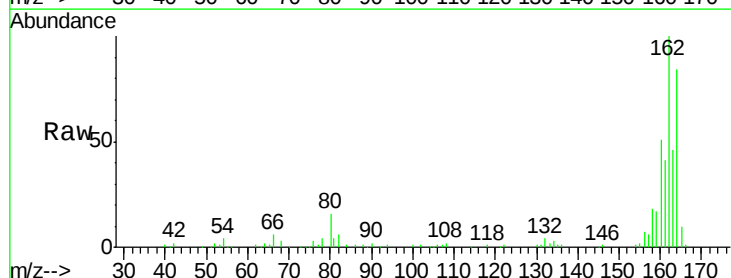
Tgt Ion:165 Resp: 12658

Ion Ratio Lower Upper

165 100

63 3.0 28.1 42.1#

89 3.6 32.2 48.2#

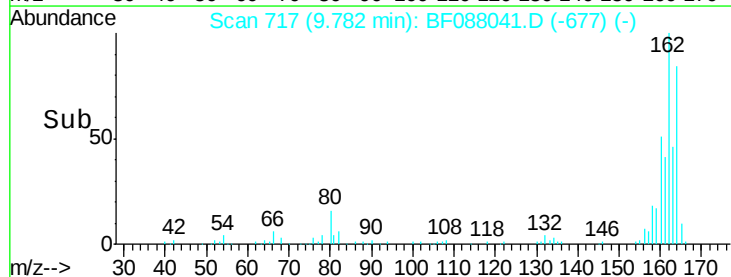


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Time-->



Time-->



#56

2,4-Dinitrotoluene

Concen: 5.90 ng

RT: 9.78 min Scan# 717

Delta R.T. -0.25 min

Lab File: BF088041.D

Acq: 15 Jun 2016 18:40

Instrument :

BNA_F

ClientSampleId :

HSR-WC-52-060916

Tgt Ion:165 Resp: 12658

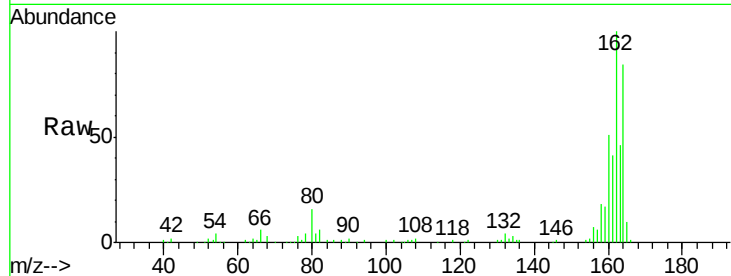
Ion Ratio Lower Upper

165 100

63 3.0 22.0 33.0#

89 3.6 41.1 61.7#

182 0.0 2.0 3.0#

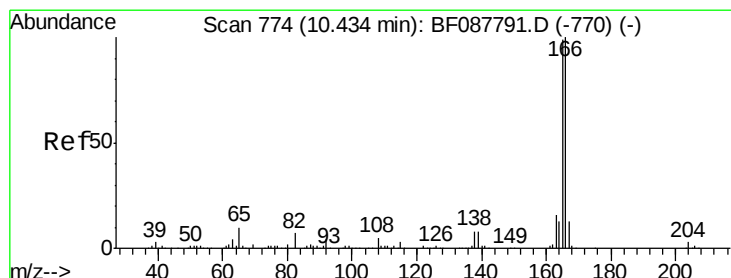
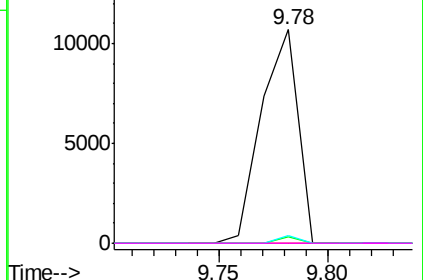
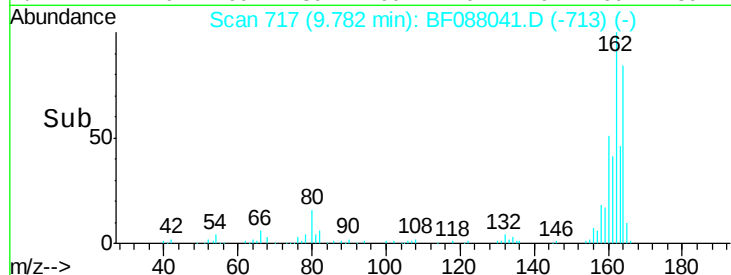


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57

Fluorene

Concen: Below Cal

RT: 10.33 min Scan# 765

Delta R.T. -0.06 min

Lab File: BF088041.D

Acq: 15 Jun 2016 18:40

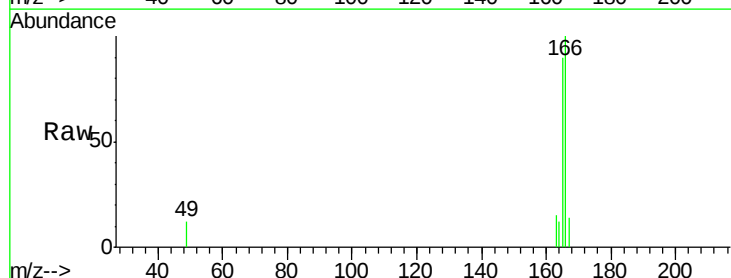
Tgt Ion:166 Resp: 3618

Ion Ratio Lower Upper

166 100

165 89.6 77.8 116.8

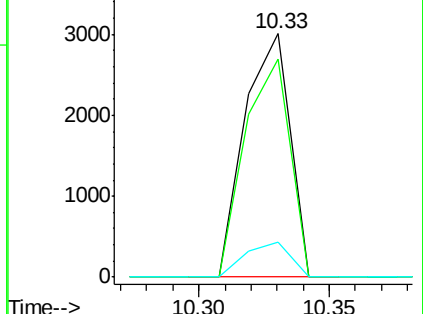
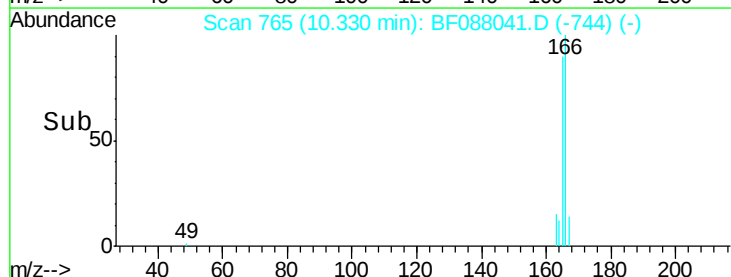
167 14.2 11.2 16.8

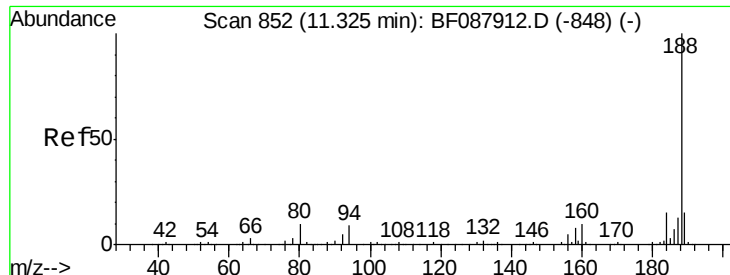


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

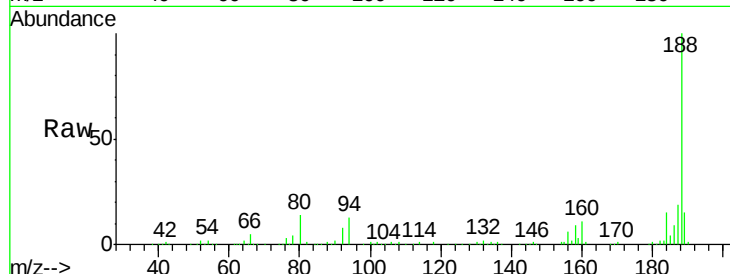




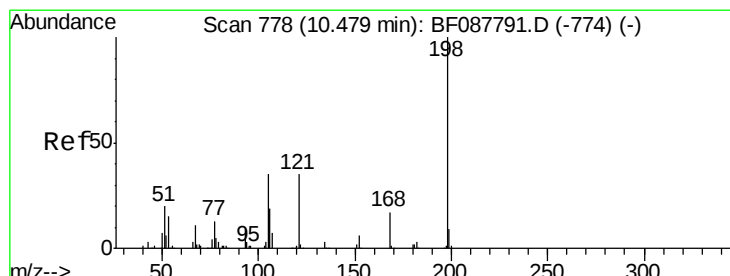
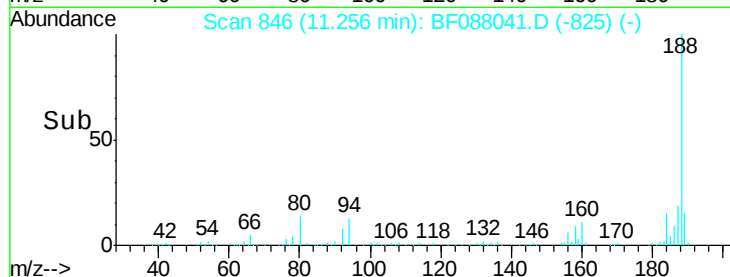
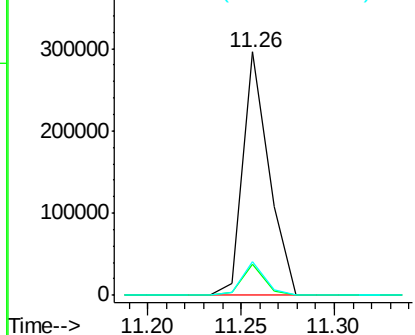
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.26 min Scan# 846
Delta R.T. -0.06 min
Lab File: BF088041.D
Acq: 15 Jun 2016 18:40

Instrument :
BNA_F
ClientSampleId :
HSR-WC-52-060916

Tgt Ion:188 Resp: 287518
Ion Ratio Lower Upper
188 100
94 12.5 9.0 13.6
80 13.9 10.0 15.0

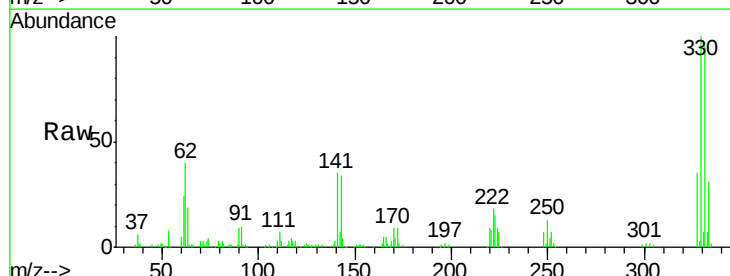


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

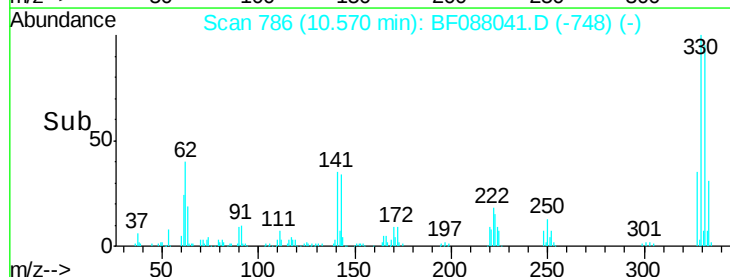
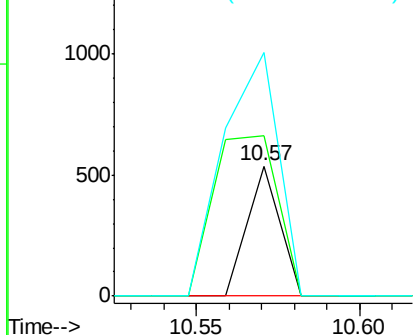


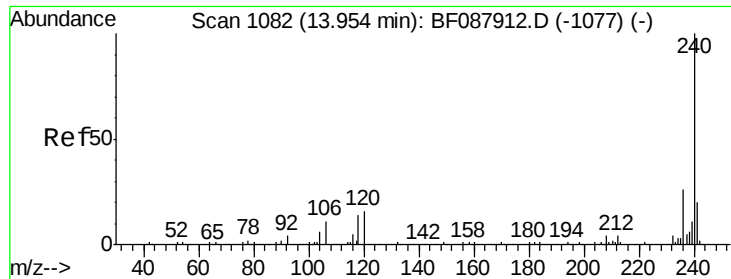
#64
4,6-Dinitro-2-methylphenol
Concen: 2.36 ng
RT: 10.57 min Scan# 786
Delta R.T. 0.14 min
Lab File: BF088041.D
Acq: 15 Jun 2016 18:40

Tgt Ion:198 Resp: 368
Ion Ratio Lower Upper
198 100
51 123.5 39.6 79.6#
105 187.3 36.6 76.6#



Abundance Ion 198.00 (197.70 to 198.70): E
Ion 51.00 (50.70 to 51.70): BF0
Ion 105.00 (104.70 to 105.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.89 min Scan# 1076

Delta R.T. -0.07 min

Lab File: BF088041.D

Acq: 15 Jun 2016 18:40

Instrument :

BNA_F

ClientSampleId :

HSR-WC-52-060916

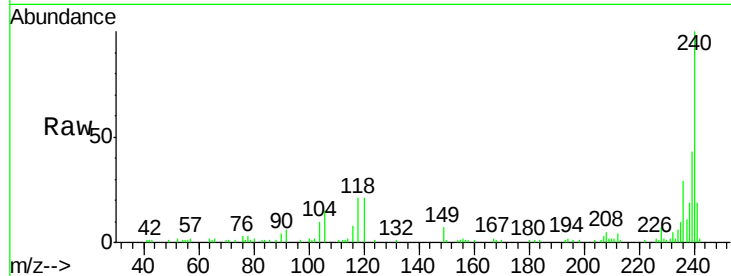
Tgt Ion:240 Resp: 72969

Ion Ratio Lower Upper

240 100

120 20.5 6.8 10.2#

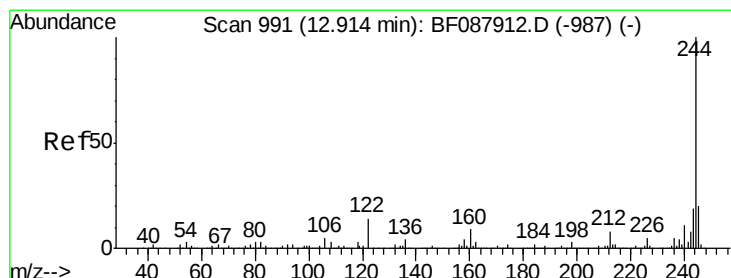
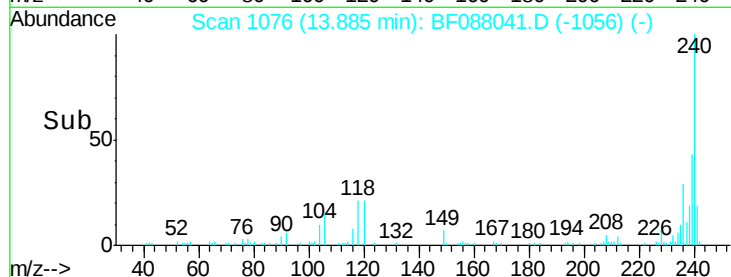
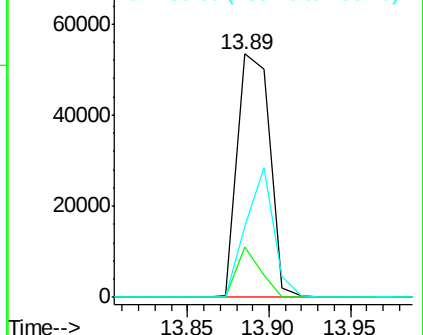
236 28.8 20.2 30.2



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

Terphenyl-d14

Concen: 237.09 ng

RT: 12.84 min Scan# 985

Delta R.T. -0.06 min

Lab File: BF088041.D

Acq: 15 Jun 2016 18:40

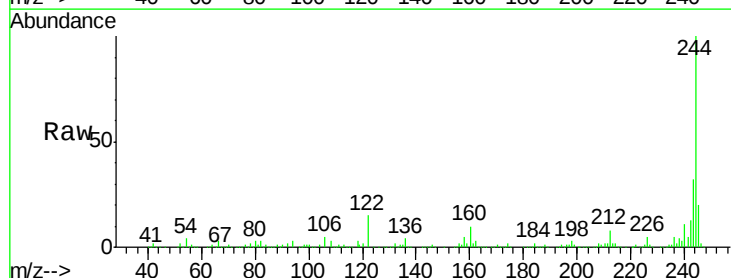
Tgt Ion:244 Resp: 760274

Ion Ratio Lower Upper

244 100

212 7.9 6.0 9.0

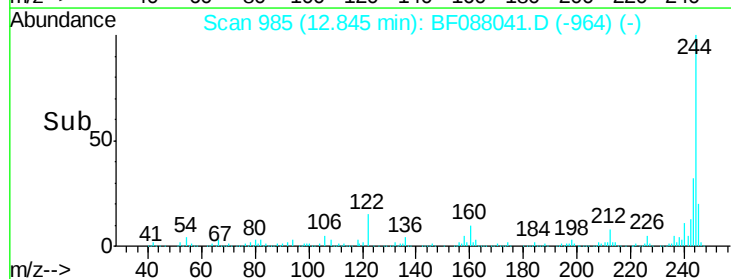
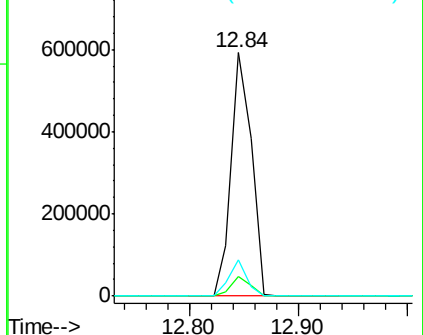
122 15.0 11.2 16.8

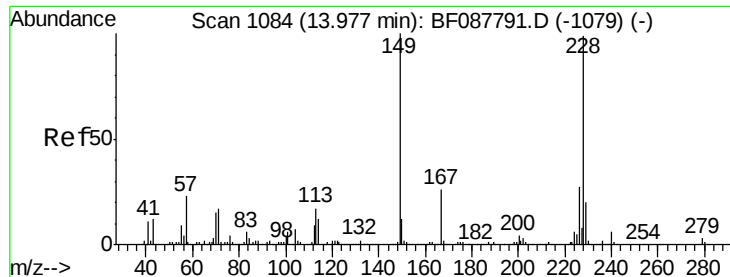


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 2.95 ng

RT: 13.92 min Scan# 1079

Delta R.T. -0.02 min

Lab File: BF088041.D

Acq: 15 Jun 2016 18:40

Instrument :

BNA_F

ClientSampleId :

HSR-WC-52-060916

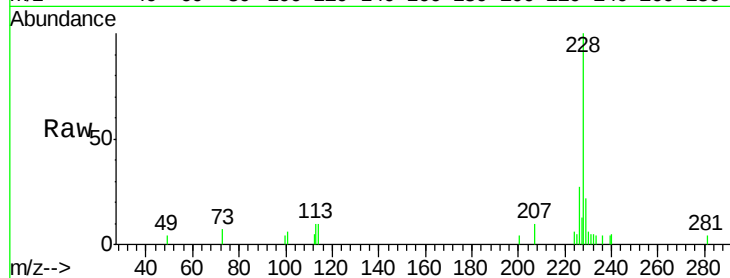
Tgt Ion:228 Resp: 12280

Ion Ratio Lower Upper

228 100

226 27.4 22.3 33.5

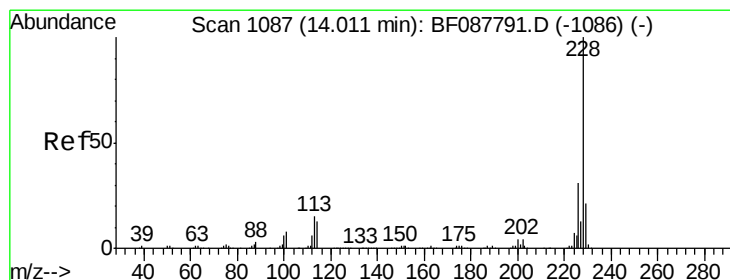
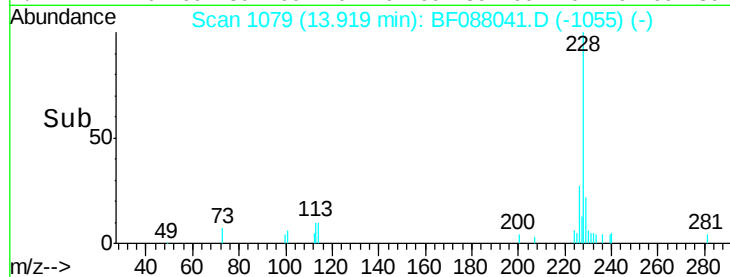
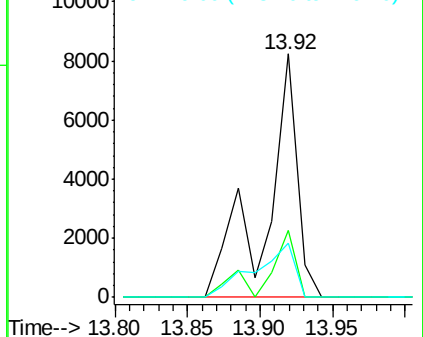
229 22.0 16.0 24.0



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



#82

Chrysene

Concen: 3.14 ng

RT: 13.92 min Scan# 1079

Delta R.T. -0.06 min

Lab File: BF088041.D

Acq: 15 Jun 2016 18:40

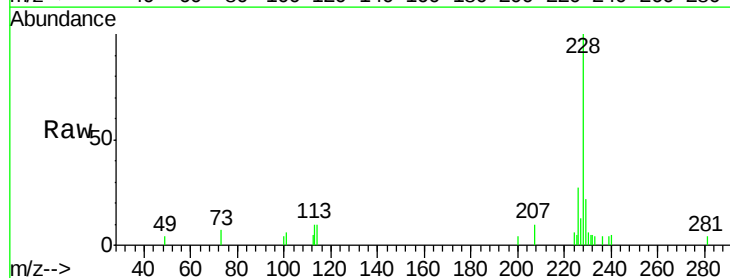
Tgt Ion:228 Resp: 12280

Ion Ratio Lower Upper

228 100

226 27.4 25.4 38.2

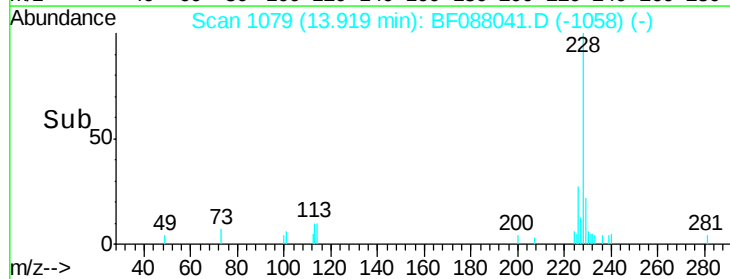
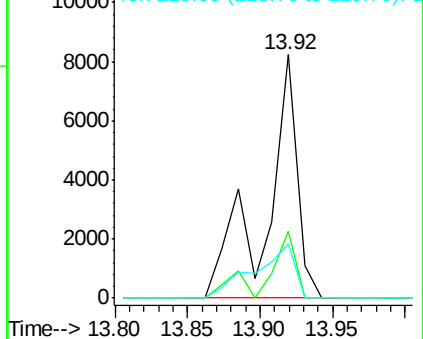
229 22.0 16.3 24.5

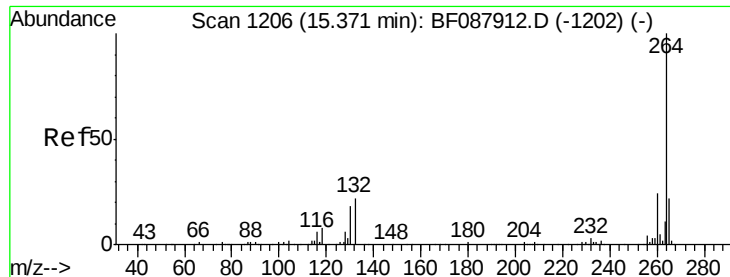


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#86

Perylene-d12

Concen: 20.00 ng

RT: 15.29 min Scan# 1199

Delta R.T. -0.07 min

Lab File: BF088041.D

Acq: 15 Jun 2016 18:40

Instrument :

BNA_F

ClientSampleId :

HSR-WC-52-060916

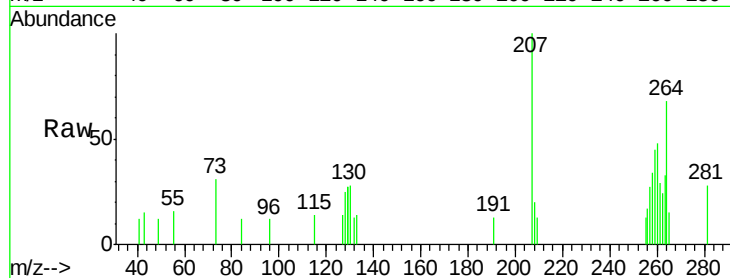
Tgt Ion: 264 Resp: 1546

Ion Ratio Lower Upper

264 100

260 71.0 19.2 28.8#

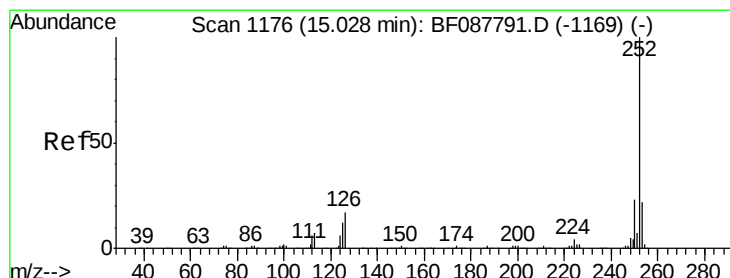
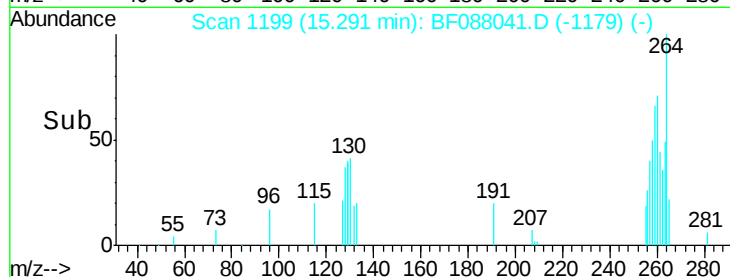
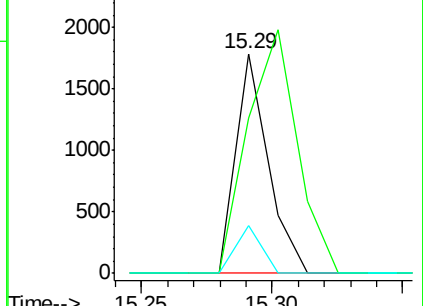
265 21.7 16.9 25.3



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



#87

Benzo(b)fluoranthene

Concen: 45.32 ng

RT: 14.90 min Scan# 1165

Delta R.T. -0.06 min

Lab File: BF088041.D

Acq: 15 Jun 2016 18:40

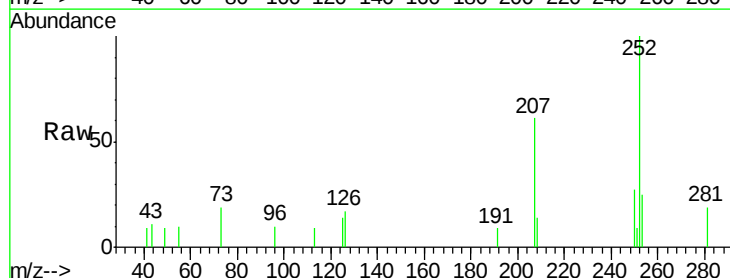
Tgt Ion: 252 Resp: 4883

Ion Ratio Lower Upper

252 100

253 24.6 17.4 26.2

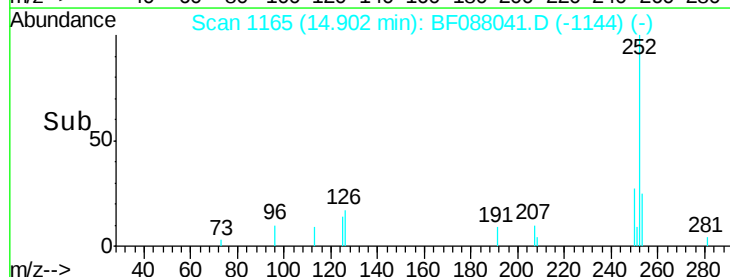
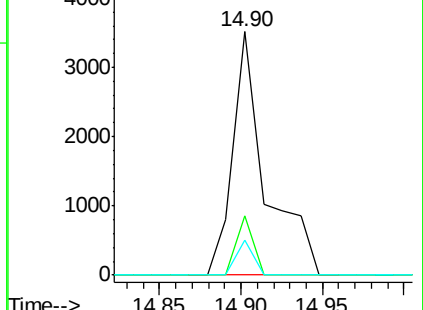
125 14.3 7.1 10.7#

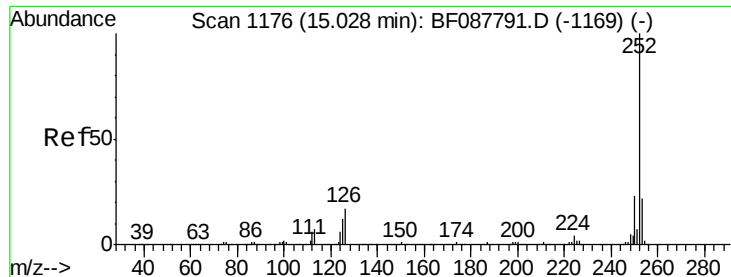


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 60.07 ng

RT: 14.90 min Scan# 1165

Delta R.T. -0.08 min

Lab File: BF088041.D

Acq: 15 Jun 2016 18:40

Instrument :

BNA_F

ClientSampleId :

HSR-WC-52-060916

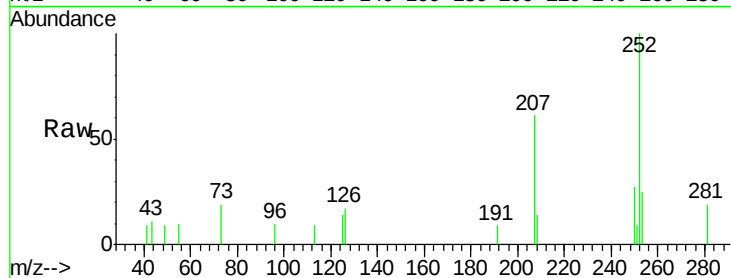
Tgt Ion:252 Resp: 4883

Ion Ratio Lower Upper

252 100

253 24.6 18.0 27.0

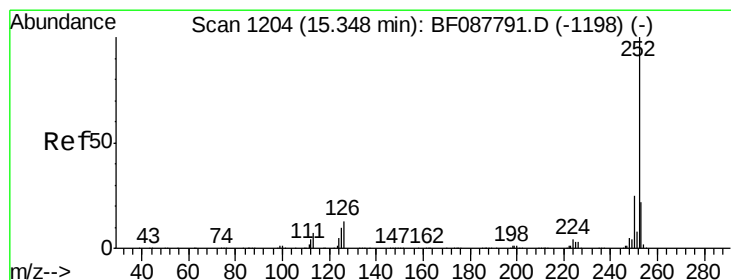
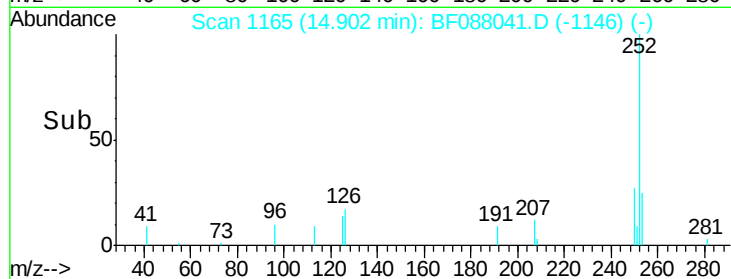
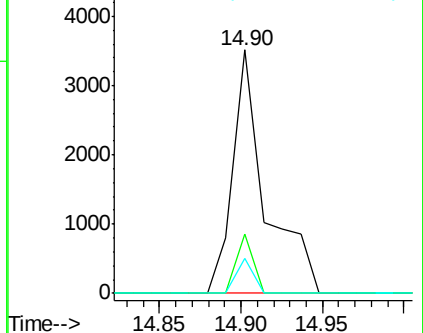
125 14.3 11.2 16.8



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(a)pyrene

Concen: 4.22 ng

RT: 15.25 min Scan# 1195

Delta R.T. -0.06 min

Lab File: BF088041.D

Acq: 15 Jun 2016 18:40

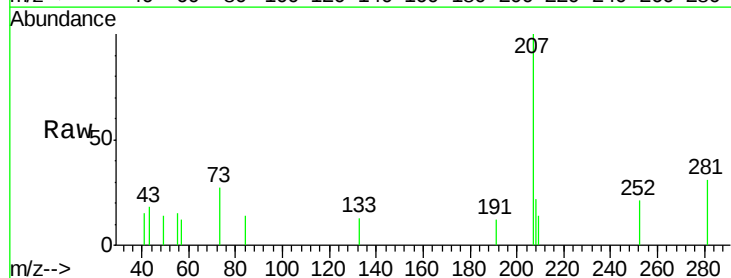
Tgt Ion:252 Resp: 368

Ion Ratio Lower Upper

252 100

253 0.0 17.9 26.9#

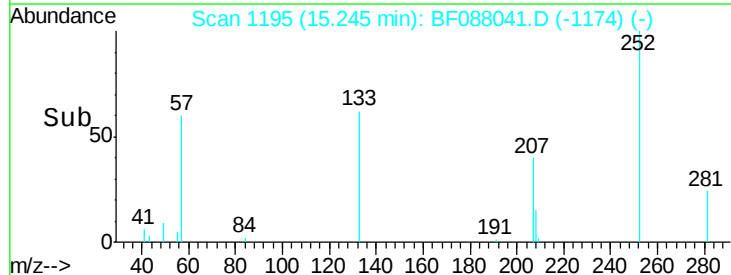
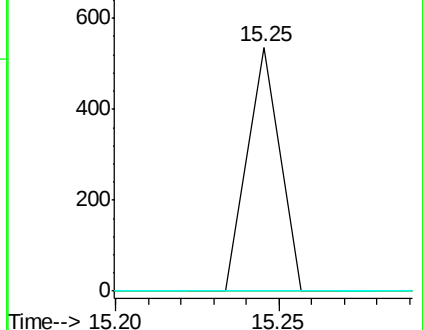
125 0.0 12.5 18.7#

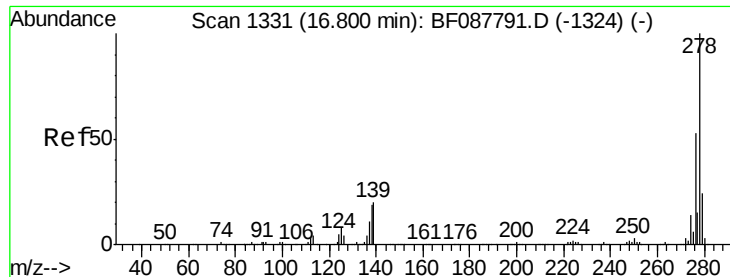


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 16.18 ng

RT: 16.65 min Scan# 1318

Delta R.T. -0.08 min

Lab File: BF088041.D

Acq: 15 Jun 2016 18:40

Instrument :

BNA_F

ClientSampleId :

HSR-WC-52-060916

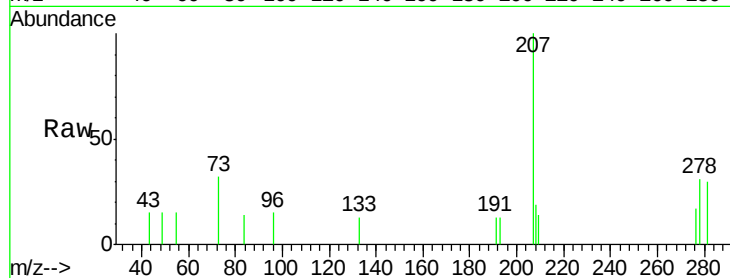
Tgt Ion: 278 Resp: 1310

Ion Ratio Lower Upper

278 100

139 0.0 15.7 23.5#

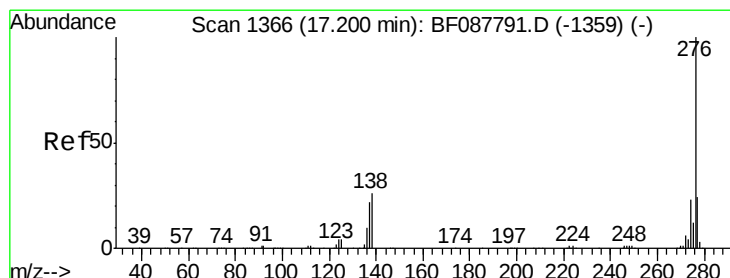
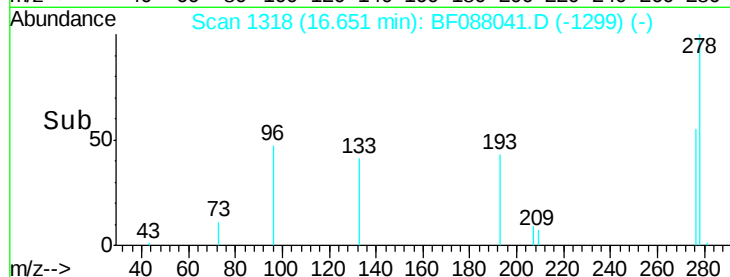
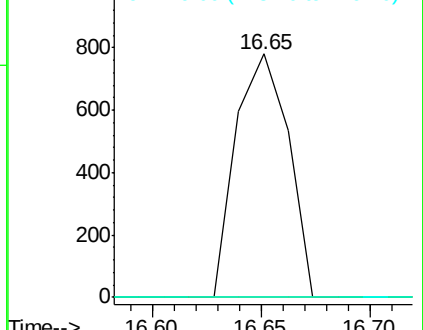
279 0.0 19.4 29.2#



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



#91

Benzo(g,h,i)perylene

Concen: 10.49 ng

RT: 17.05 min Scan# 1353

Delta R.T. -0.08 min

Lab File: BF088041.D

Acq: 15 Jun 2016 18:40

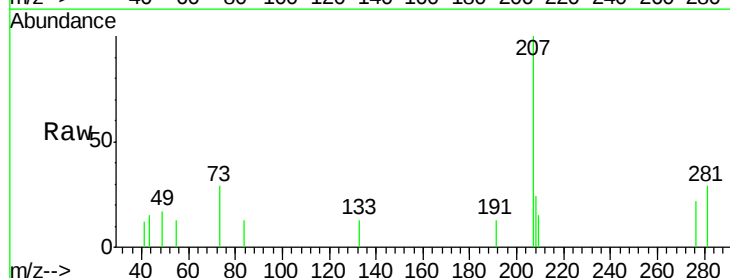
Tgt Ion: 276 Resp: 874

Ion Ratio Lower Upper

276 100

277 0.0 18.9 28.3#

138 0.0 21.4 32.2#



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

