

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062716\
 Data File : BF088479.D
 Acq On : 28 Jun 2016 6:04
 Operator : UM/SJ
 Sample : H3624-05DL 2X
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SC-STA-1481(0-4)DL

Quant Time: Jun 28 07:34:34 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 28 05:25:55 2016
 Response via : Initial Calibration

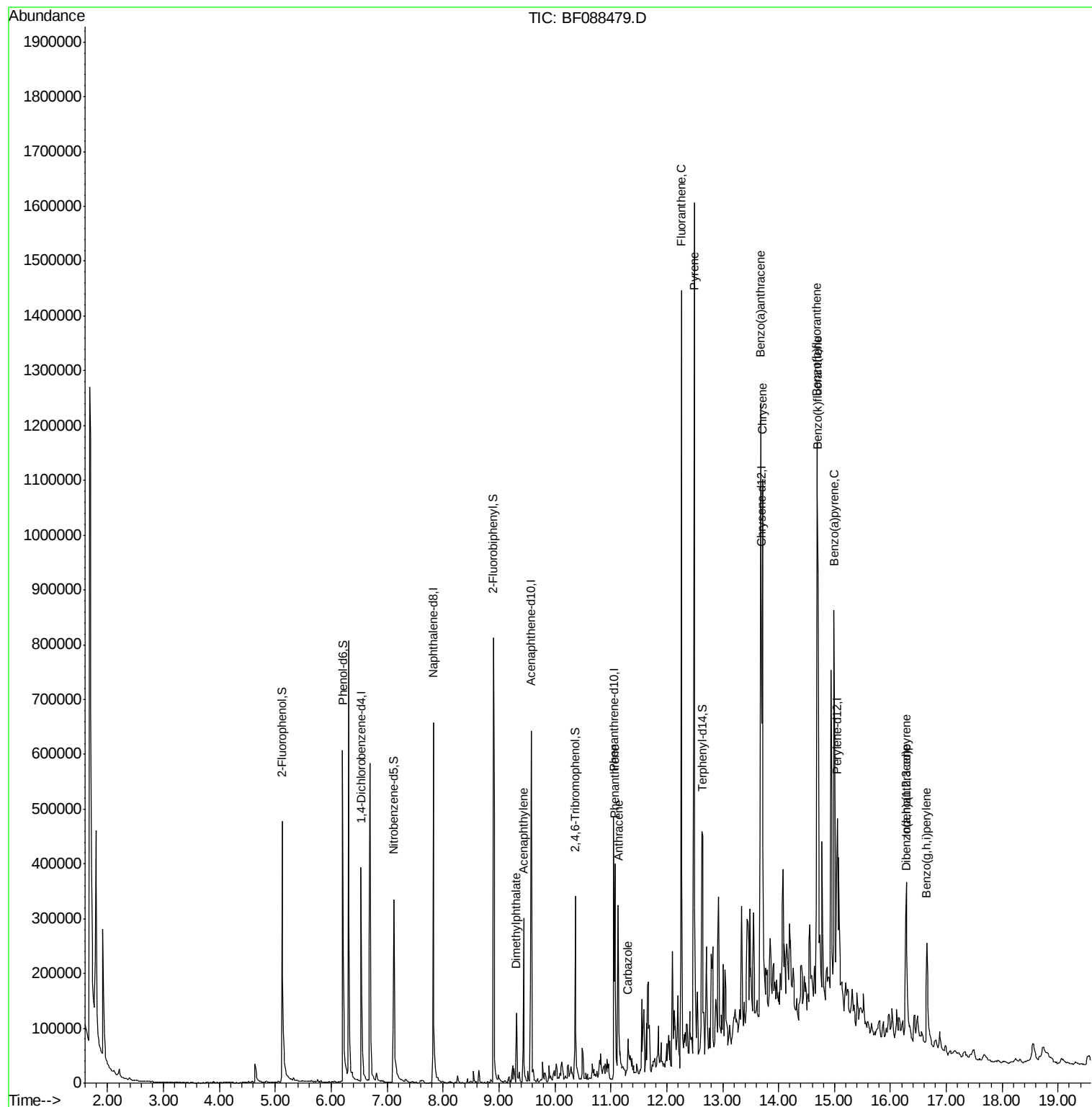
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.54	152	83349m	20.00	ng	-0.01
21) Naphthalene-d8	7.83	136	329782	20.00	ng	-0.01
38) Acenaphthene-d10	9.58	164	135190	20.00	ng	-0.01
63) Phenanthrene-d10	11.05	188	200467	20.00	ng	-0.01
75) Chrysene-d12	13.69	240	158879	20.00	ng	0.00
86) Perylene-d12	15.05	264	172607	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.12	112	235600	48.32	ng	-0.01
7) Phenol-d6	6.20	99	328378	55.57	ng	-0.02
23) Nitrobenzene-d5	7.12	82	177070	31.35	ng	-0.01
41) 2,4,6-Tribromophenol	10.36	330	44256	31.00	ng	-0.01
44) 2-Fluorobiphenyl	8.90	172	358962	38.70	ng	-0.02
78) Terphenyl-d14	12.64	244	193509	27.72	ng	0.00
Target Compounds						Qvalue
48) Acenaphthylene	9.44	152	144085	10.35	ng	98
49) Dimethylphthalate	9.31	163	48567	4.96	ng	98
70) Phenanthrene	11.07	178	169942	16.16	ng	99
71) Anthracene	11.13	178	159381	15.02	ng	99
72) Carbazole	11.30	167	30437	3.07	ng	94
74) Fluoranthene	12.26	202	584877	52.69	ng	99
77) Pyrene	12.49	202	673838	57.15	ng	100
80) Benzo(a)anthracene	13.68	228	536143	59.22	ng	94
82) Chrysene	13.71	228	345935m	40.61	ng	
85) Indeno(1,2,3-cd)pyrene	16.29	276	196321	24.81	ng	# 100
87) Benzo(b)fluoranthene	14.69	252	550009m	45.72	ng	
88) Benzo(k)fluoranthene	14.70	252	291453m	32.12	ng	
89) Benzo(a)pyrene	14.99	252	385277	39.58	ng	99
90) Dibenzo(a,h)anthracene	16.27	278	51084m	5.65	ng	
91) Benzo(a,h,i)perylene	16.65	276	158273	17.02	ng	98

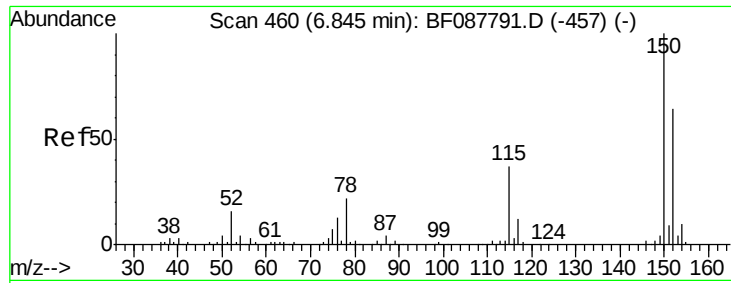
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng/mL

RT: 6.54 min Scan# 433

Delta R.T. -0.01 min

Lab File: BF088479.D

Acq: 28 Jun 2016 6:04

Instrument :

BNA_F

ClientSampleId :

SC-STA-1481(0-4)DL

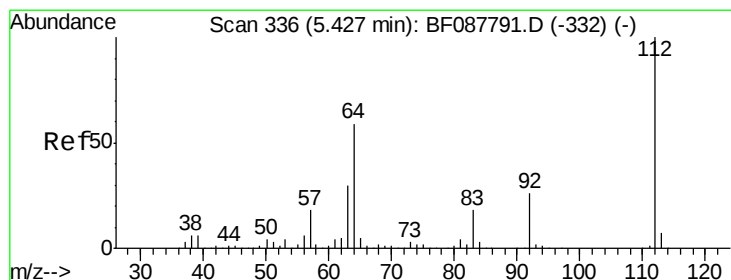
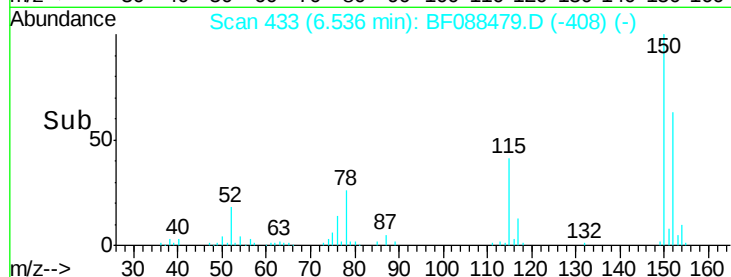
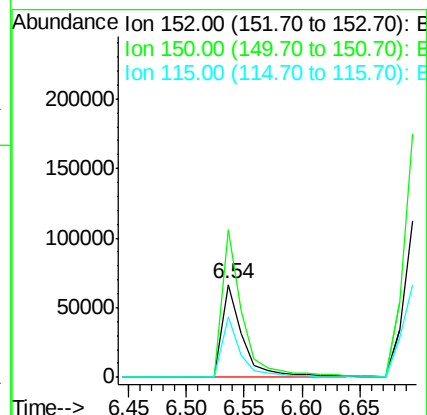
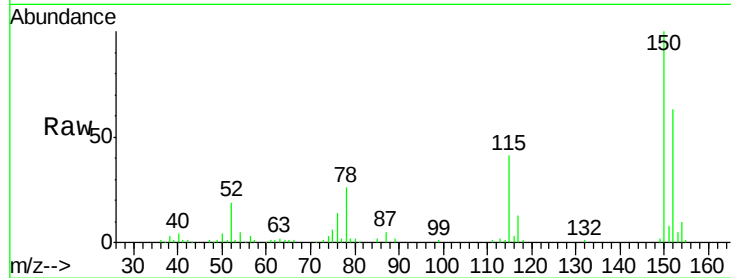
Tot Ion:152 Resp: 83349

Ion Ratio Lower Upper

152 100

150 158.5 123.8 185.6

115 65.7 39.6 59.4#



#5

2-Fluorophenol

Concen: 48.32 ng

RT: 5.12 min Scan# 309

Delta R.T. -0.01 min

Lab File: BF088479.D

Acq: 28 Jun 2016 6:04

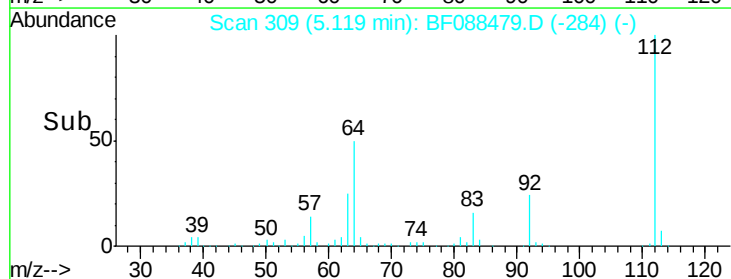
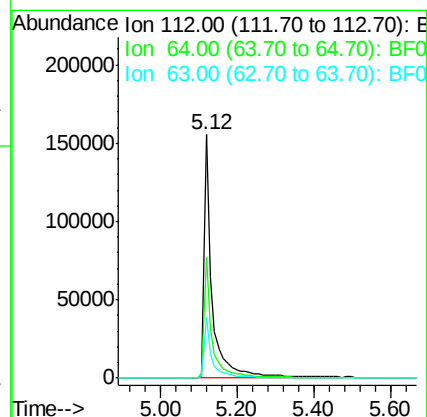
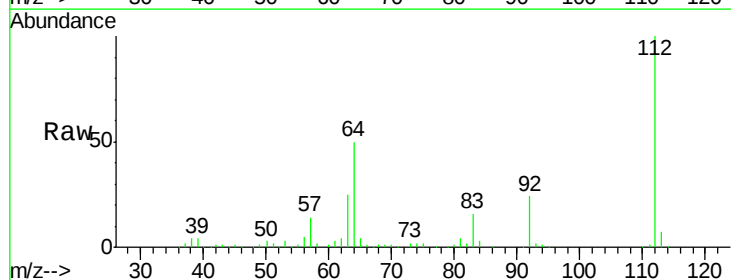
Tgt Ion:112 Resp: 235600

Ion Ratio Lower Upper

112 100

64 49.6 42.2 63.2

63 24.9 21.8 32.8





#7

Phenol-d6

Concen: 55.57 ng

RT: 6.20 min Scan# 404

Delta R.T. -0.02 min

Lab File: BF088479.D

Acq: 28 Jun 2016 6:04

Instrument :

BNA_F

ClientSampleId :

SC-STA-1481(0-4)DL

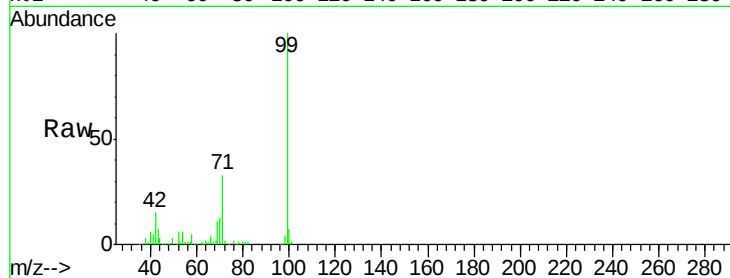
Tot Ion: 99 Resp: 328378

Ion Ratio Lower Upper

99 100

42 14.6 12.2 18.2

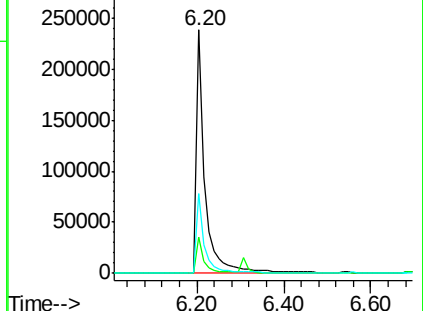
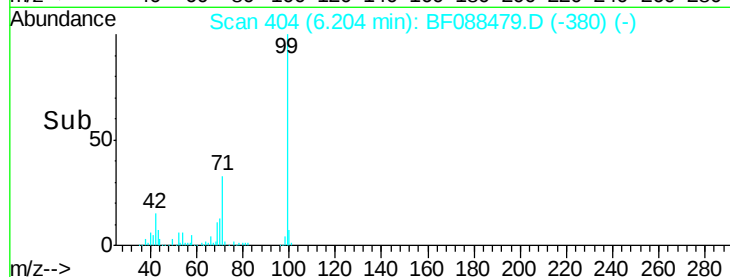
71 32.9 23.4 35.0



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.83 min Scan# 546

Delta R.T. -0.01 min

Lab File: BF088479.D

Acq: 28 Jun 2016 6:04

Tgt Ion: 136 Resp: 329782

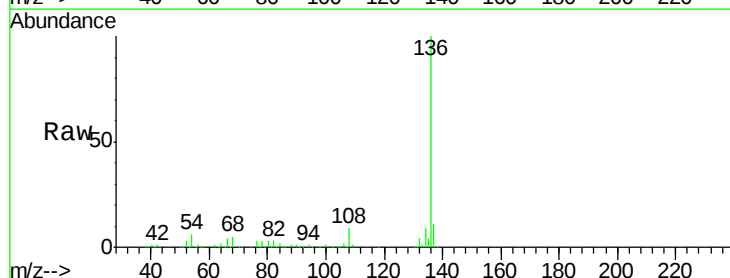
Ion Ratio Lower Upper

136 100

137 10.9 9.1 13.7

54 5.9 6.6 10.0#

68 5.1 5.1 7.7#

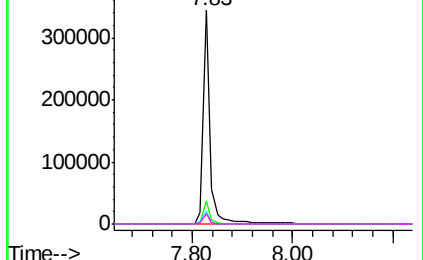
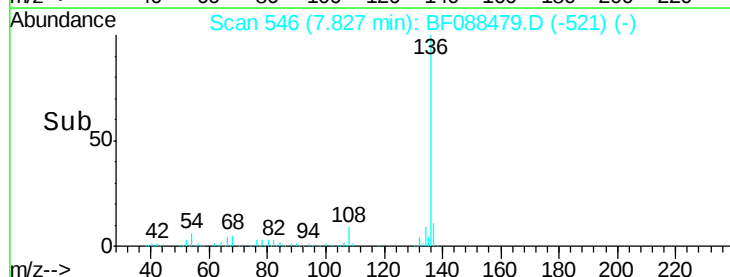


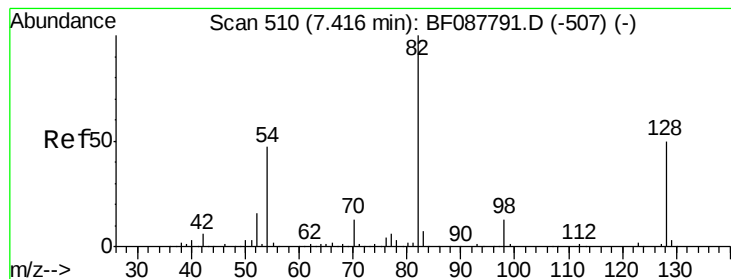
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





#23

Nitrobenzene-d5

Concen: 31.35 ng

RT: 7.12 min Scan# 484

Delta R.T. -0.01 min

Lab File: BF088479.D

Acq: 28 Jun 2016 6:04

Instrument :

BNA_F

ClientSampleId :

SC-STA-1481(0-4)DL

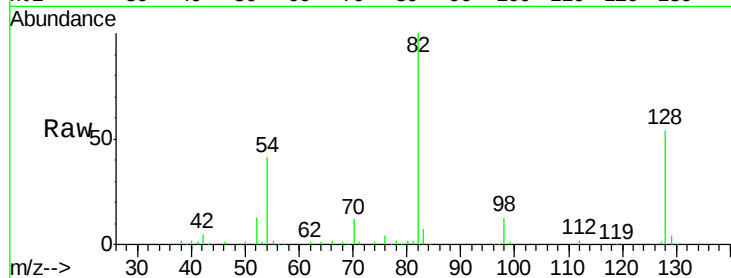
Tot Ion: 82 Resp: 177070

Ion Ratio Lower Upper

82 100

128 54.2 35.9 53.9#

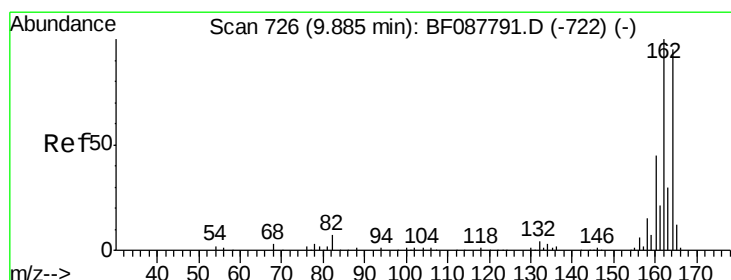
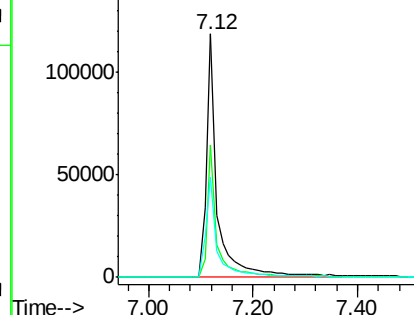
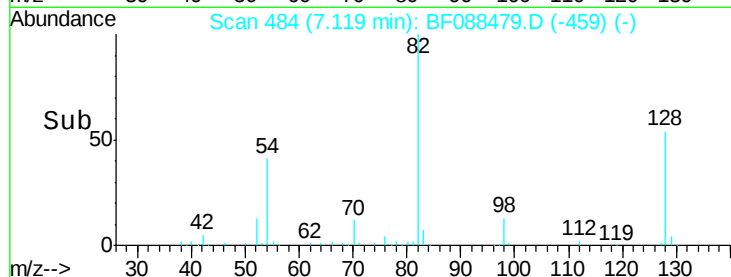
54 41.2 40.9 61.3



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.58 min Scan# 699

Delta R.T. -0.01 min

Lab File: BF088479.D

Acq: 28 Jun 2016 6:04

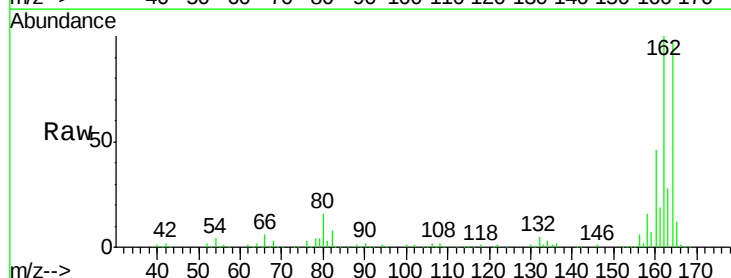
Tgt Ion:164 Resp: 135190

Ion Ratio Lower Upper

164 100

162 102.9 85.4 128.2

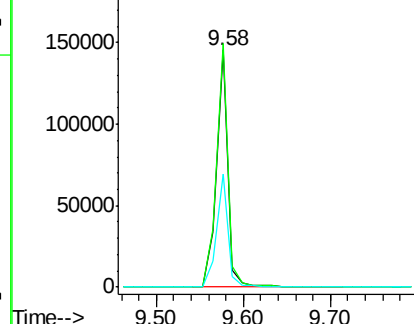
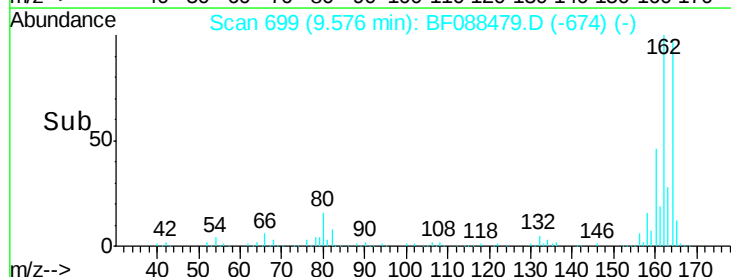
160 47.7 39.5 59.3



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

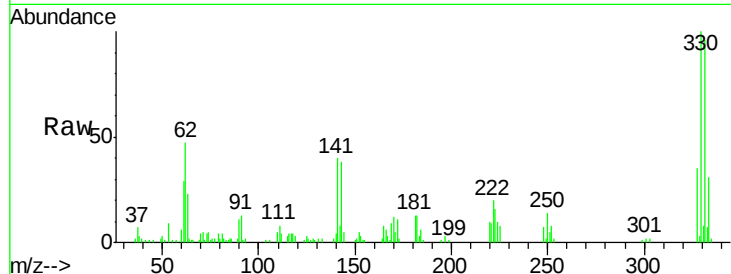




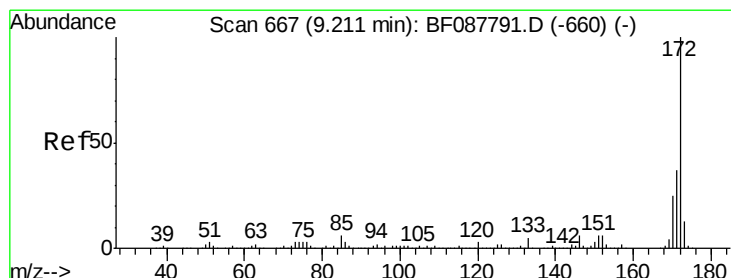
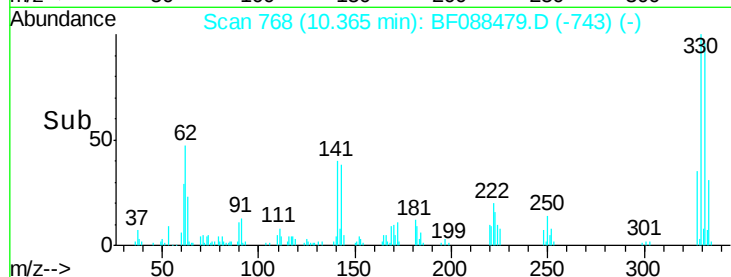
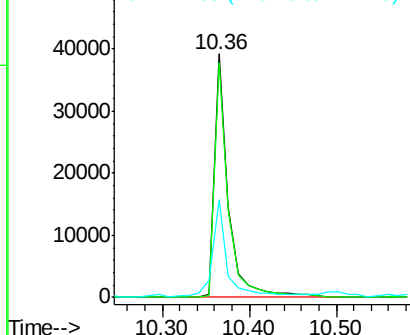
#41
 2,4,6-Tribromophenol
 Concen: 31.00 ng
 RT: 10.36 min Scan# 768
 Delta R.T. -0.01 min
 Lab File: BF088479.D
 Acq: 28 Jun 2016 6:04

Instrument :
 BNA_F
 ClientSampleId :
 SC-STA-1481(0-4)DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.2	0.0	0.0#
141	44.1	0.0	0.0#

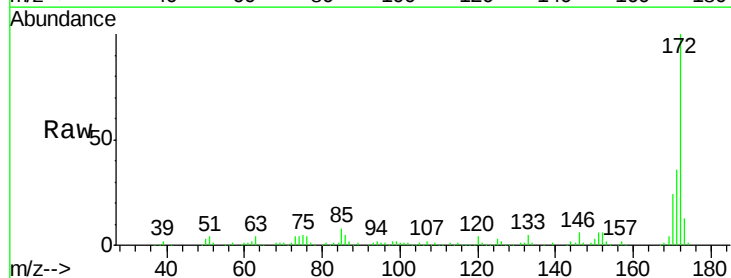


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

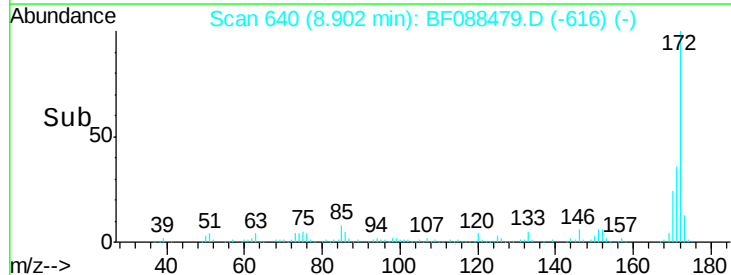
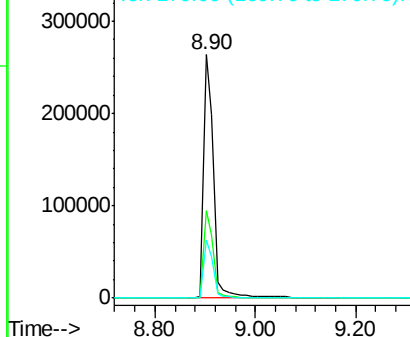


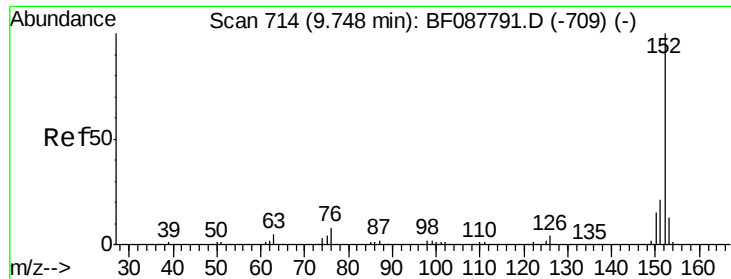
#44
 2-Fluorobiphenyl
 Concen: 38.70 ng
 RT: 8.90 min Scan# 640
 Delta R.T. -0.02 min
 Lab File: BF088479.D
 Acq: 28 Jun 2016 6:04

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	23.8	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

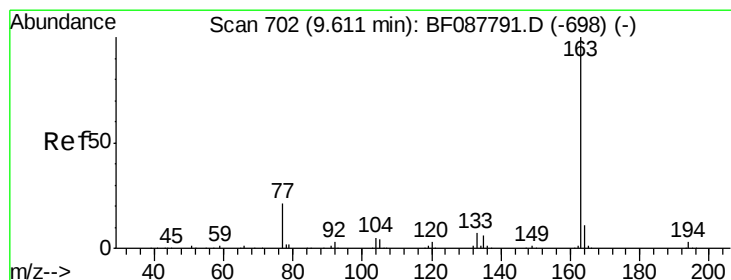
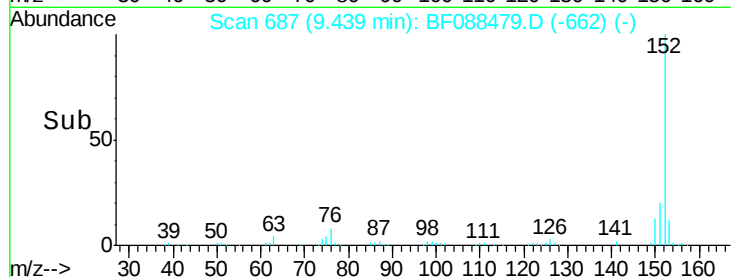
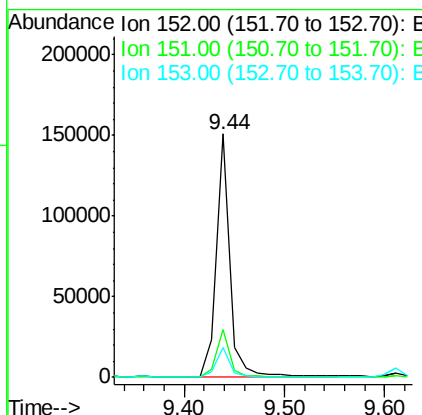
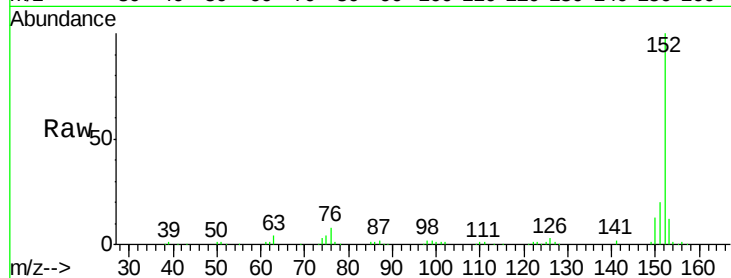




#48
Acenaphthylene
Concen: 10.35 ng
RT: 9.44 min Scan# 687
Delta R.T. -0.01 min
Lab File: BF088479.D
Acq: 28 Jun 2016 6:04

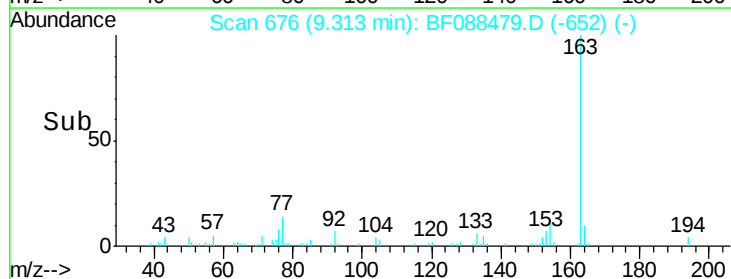
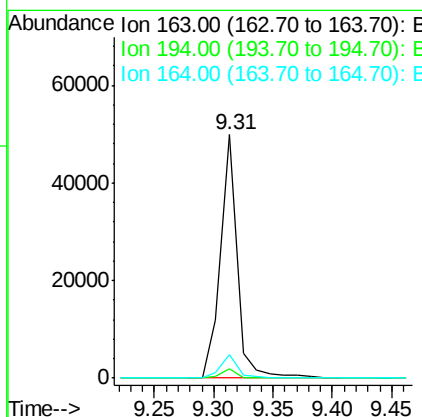
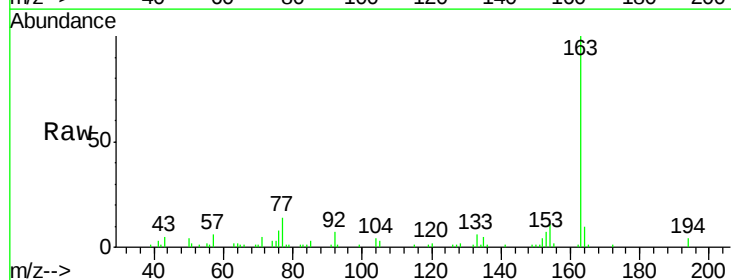
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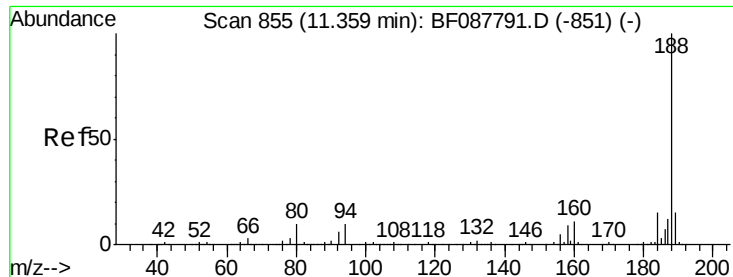
Tot Ion:152 Resp: 144085
Ion Ratio Lower Upper
152 100
151 19.7 16.2 24.4
153 12.4 11.0 16.6



#49
Dimethylphthalate
Concen: 4.96 ng
RT: 9.31 min Scan# 676
Delta R.T. -0.02 min
Lab File: BF088479.D
Acq: 28 Jun 2016 6:04

Tgt Ion:163 Resp: 48567
Ion Ratio Lower Upper
163 100
194 3.8 2.8 4.2
164 9.7 8.3 12.5

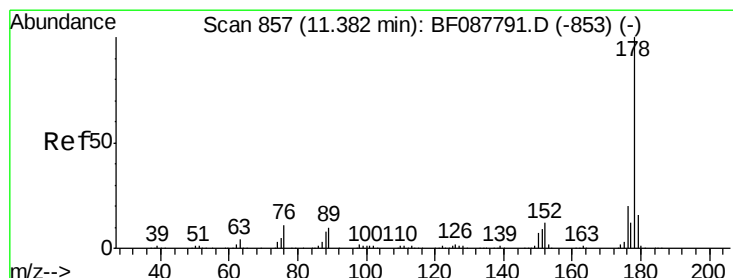
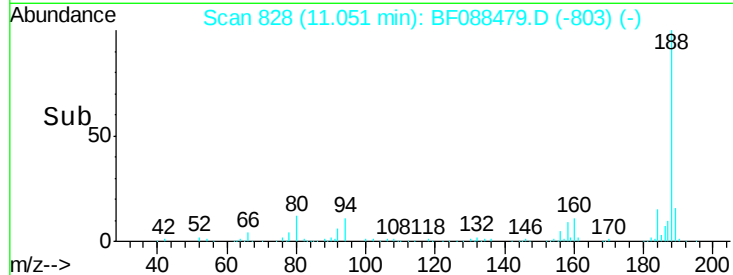
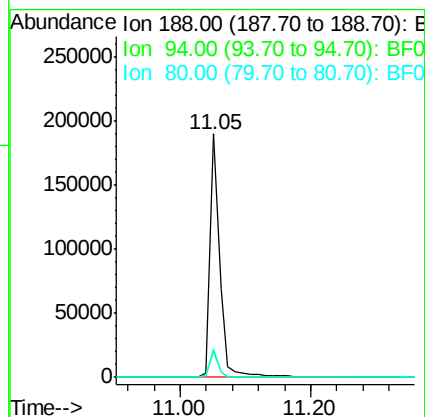
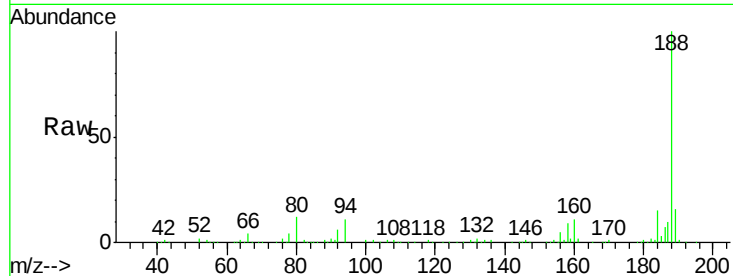




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.05 min Scan# 828
Delta R.T. -0.01 min
Lab File: BF088479.D
Acq: 28 Jun 2016 6:04

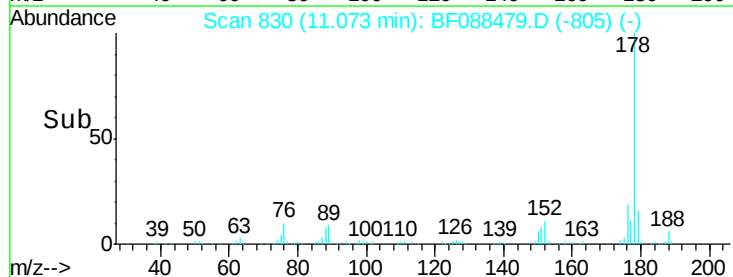
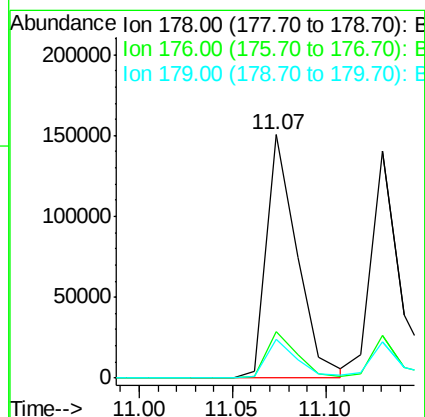
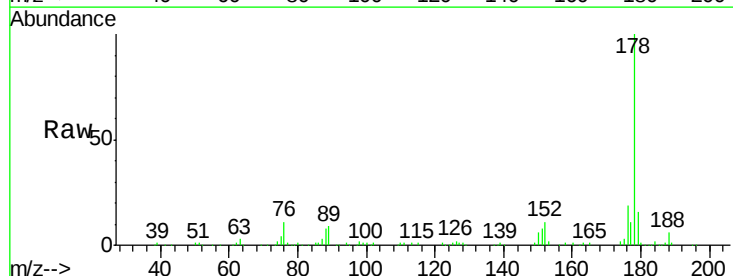
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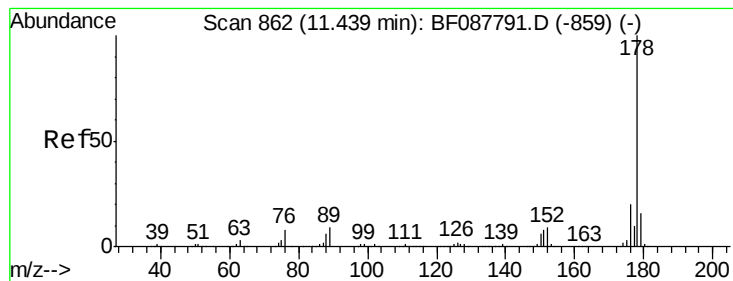
Tot Ion:188 Resp: 200467
Ion Ratio Lower Upper
188 100
94 10.7 9.0 13.6
80 11.6 10.0 15.0



#70
Phenanthrene
Concen: 16.16 ng
RT: 11.07 min Scan# 830
Delta R.T. -0.01 min
Lab File: BF088479.D
Acq: 28 Jun 2016 6:04

Tgt Ion:178 Resp: 169942
Ion Ratio Lower Upper
178 100
176 19.1 15.8 23.6
179 16.0 13.0 19.4





#71

Anthracene

Concen: 15.02 ng

RT: 11.13 min Scan# 835

Delta R.T. -0.01 min

Lab File: BF088479.D

Acq: 28 Jun 2016 6:04

Instrument :

BNA_F

ClientSampleId :

SC-STA-1481(0-4)DL

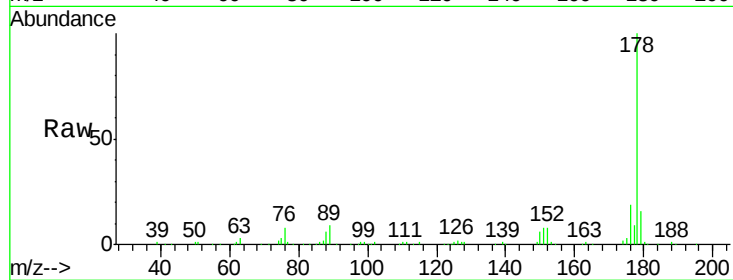
Tot Ion:178 Resp: 159381

Ion Ratio Lower Upper

178 100

176 18.6 15.6 23.4

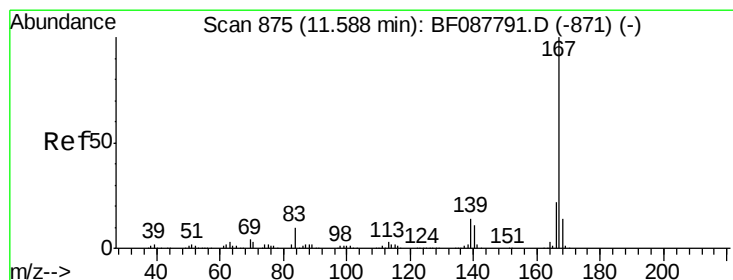
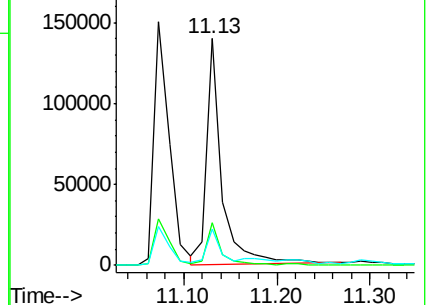
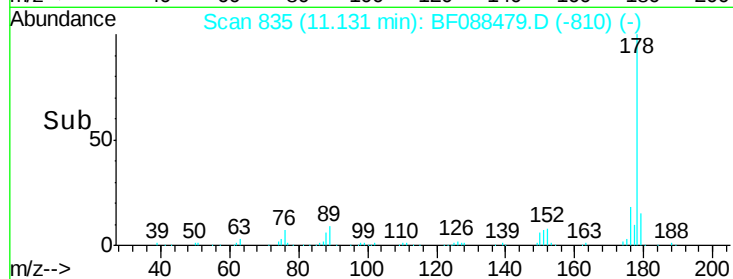
179 15.8 12.8 19.2



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

Carbazole

Concen: 3.07 ng

RT: 11.30 min Scan# 850

Delta R.T. -0.00 min

Lab File: BF088479.D

Acq: 28 Jun 2016 6:04

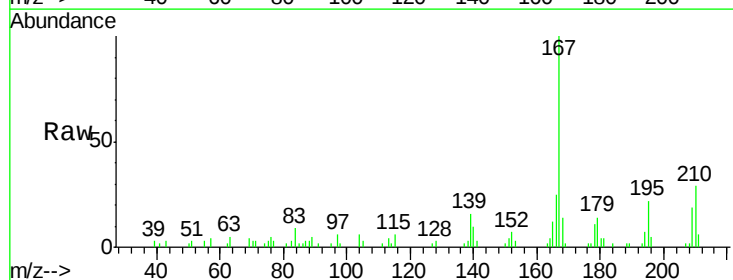
Tgt Ion:167 Resp: 30437

Ion Ratio Lower Upper

167 100

166 24.9 17.8 26.6

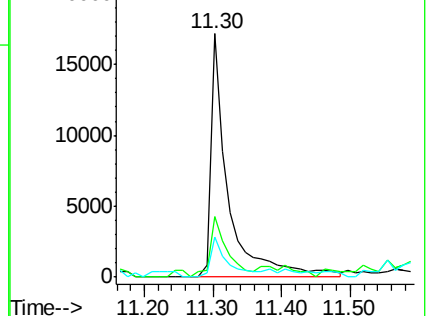
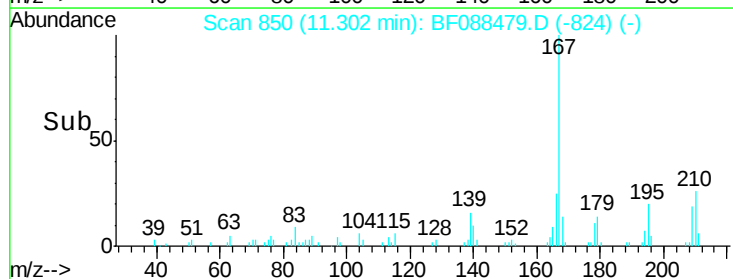
139 16.3 11.2 16.8

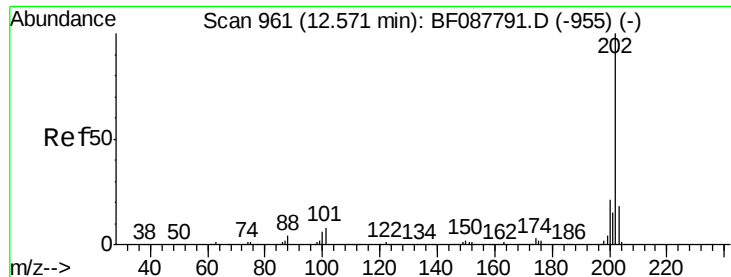


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 52.69 ng

RT: 12.26 min Scan# 934

Delta R.T. -0.00 min

Lab File: BF088479.D

Acq: 28 Jun 2016 6:04

Instrument :

BNA_F

ClientSampleId :

SC-STA-1481(0-4)DL

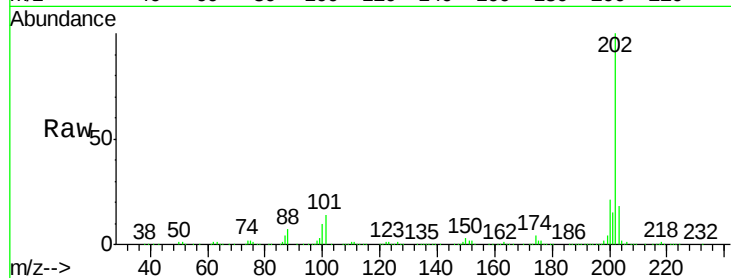
Tot Ion:202 Resp: 584877

Ion Ratio Lower Upper

202 100

101 14.1 0.0 33.1

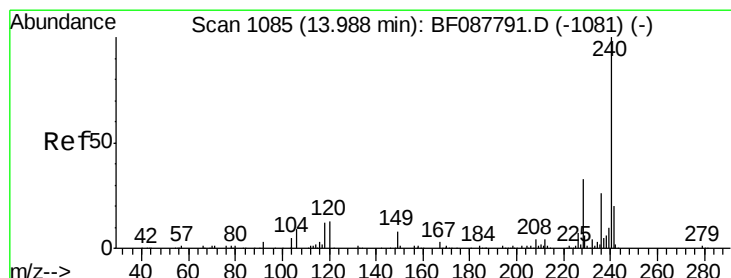
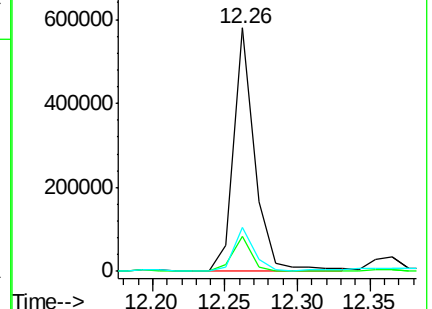
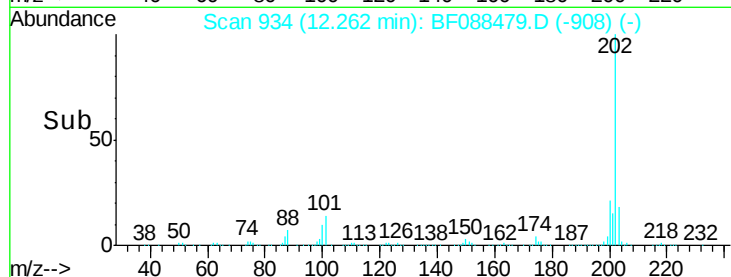
203 17.9 0.0 38.1



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



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.69 min Scan# 1059

Delta R.T. -0.00 min

Lab File: BF088479.D

Acq: 28 Jun 2016 6:04

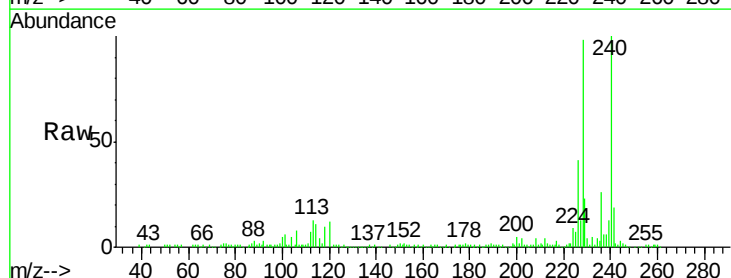
Tgt Ion:240 Resp: 158879

Ion Ratio Lower Upper

240 100

120 12.1 6.8 10.2#

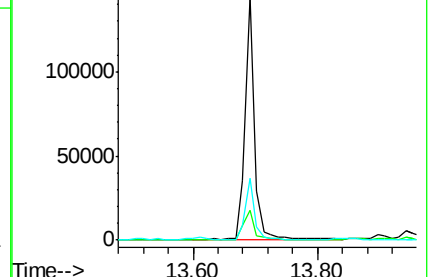
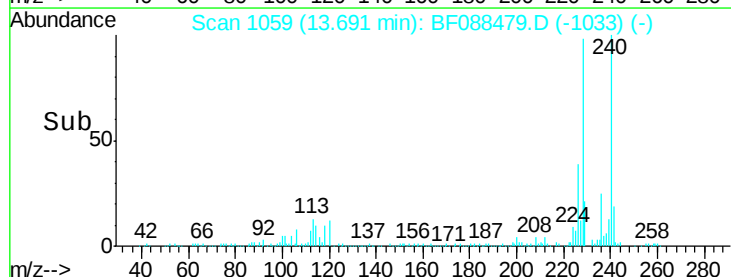
236 25.7 20.2 30.2

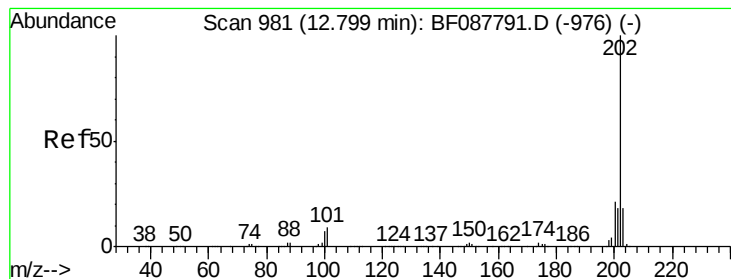


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 57.15 ng

RT: 12.49 min Scan# 954

Delta R.T. -0.00 min

Lab File: BF088479.D

Acq: 28 Jun 2016 6:04

Instrument :

BNA_F

ClientSampleId :

SC-STA-1481(0-4)DL

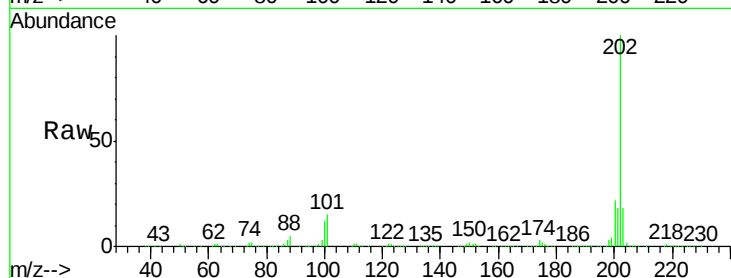
Tot Ion:202 Resp: 673838

Ion Ratio Lower Upper

202 100

200 22.0 17.4 26.2

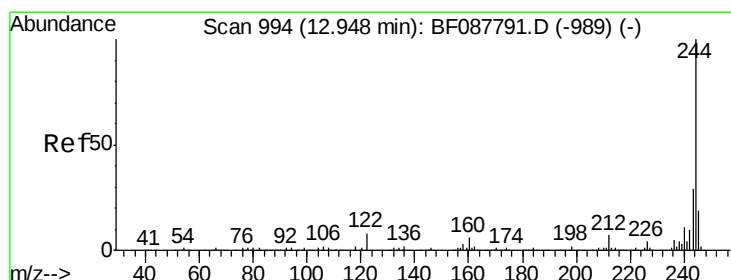
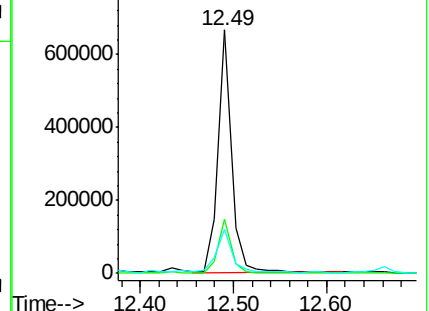
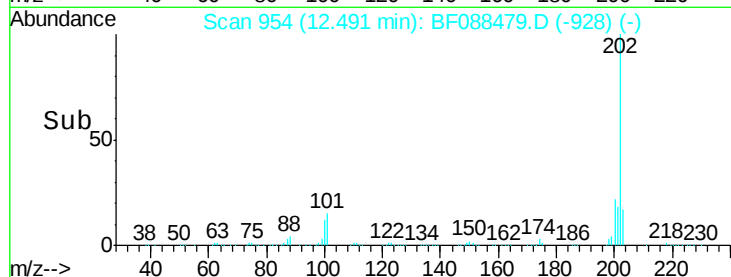
203 18.0 14.5 21.7



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



#78

Terphenyl-d14

Concen: 27.72 ng

RT: 12.64 min Scan# 967

Delta R.T. -0.00 min

Lab File: BF088479.D

Acq: 28 Jun 2016 6:04

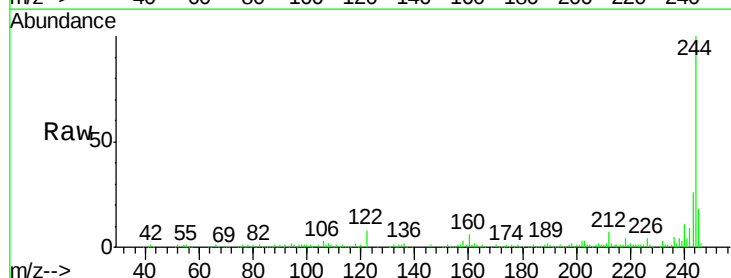
Tgt Ion:244 Resp: 193509

Ion Ratio Lower Upper

244 100

212 6.6 6.0 9.0

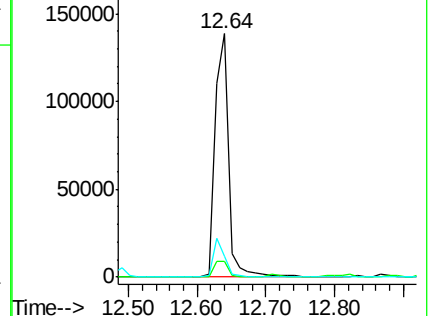
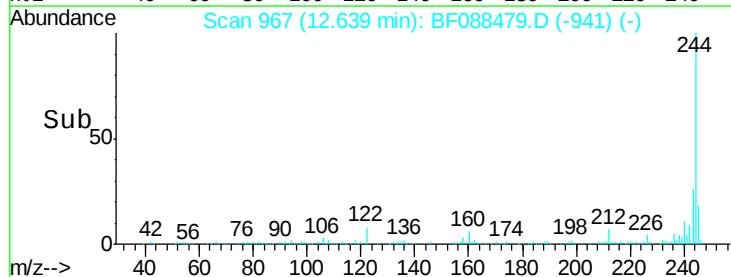
122 8.3 11.2 16.8#

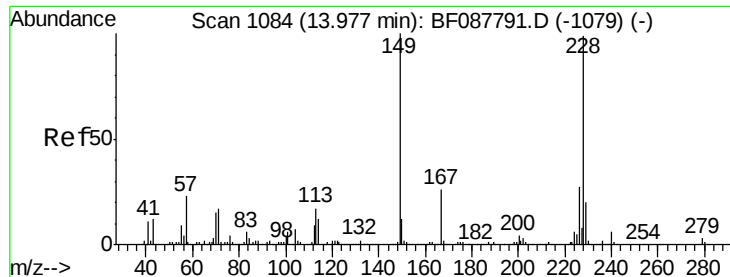


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 59.22 ng

RT: 13.68 min Scan# 1058

Delta R.T. 0.01 min

Lab File: BF088479.D

Acq: 28 Jun 2016 6:04

Instrument :

BNA_F

ClientSampleId :

SC-STA-1481(0-4)DL

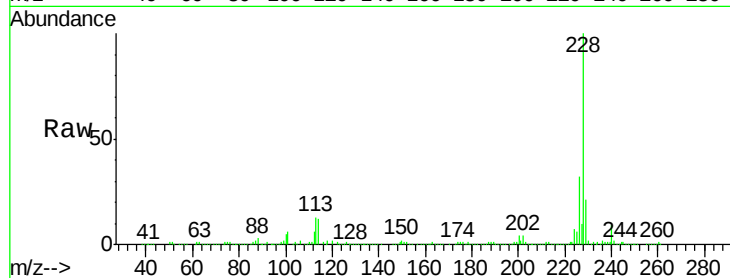
Tot Ion:228 Resp: 536143

Ion Ratio Lower Upper

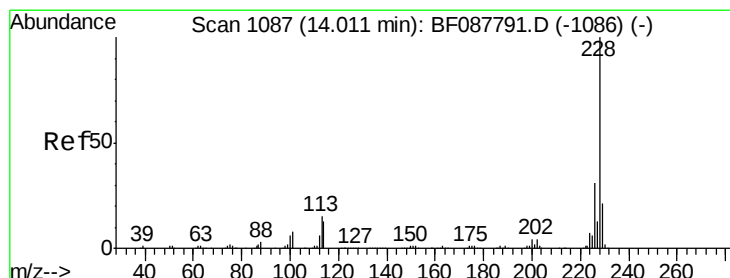
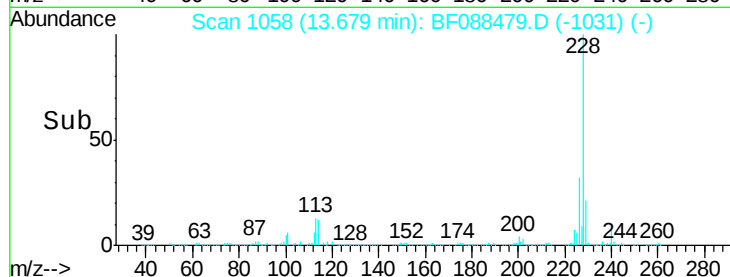
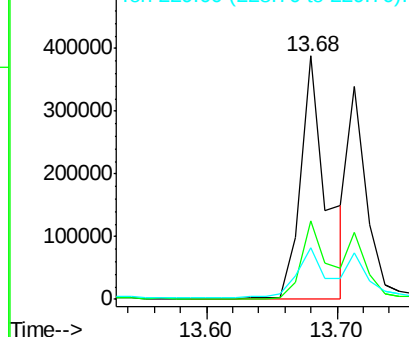
228 100

226 32.5 22.3 33.5

229 21.3 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: 40.61 ng m

RT: 13.71 min Scan# 1061

Delta R.T. -0.00 min

Lab File: BF088479.D

Acq: 28 Jun 2016 6:04

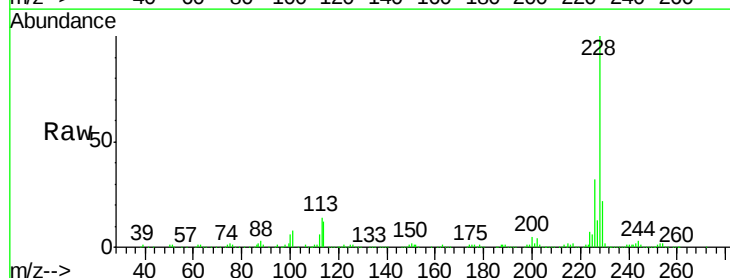
Tgt Ion:228 Resp: 345935

Ion Ratio Lower Upper

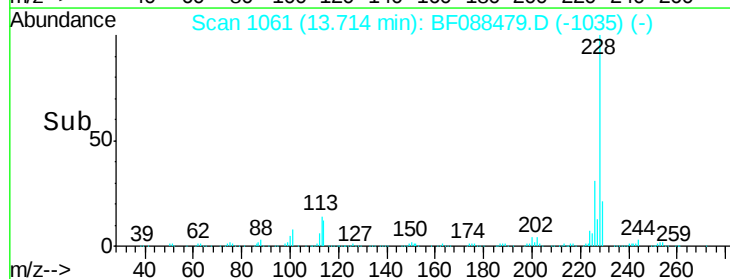
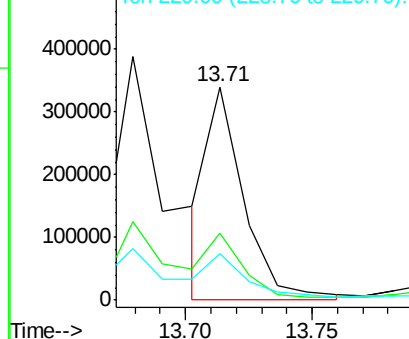
228 100

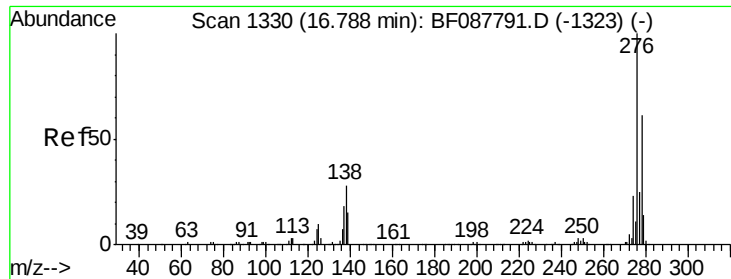
226 31.6 25.4 38.2

229 21.8 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





#85

Indeno(1,2,3-cd)pyrene

Concen: 24.81 ng

RT: 16.29 min Scan# 1286

Delta R.T. 0.02 min

Lab File: BF088479.D

Acq: 28 Jun 2016 6:04

Instrument :

BNA_F

ClientSampleId :

SC-STA-1481(0-4)DL

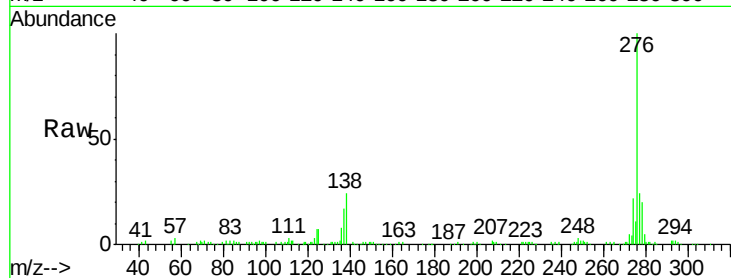
Tot Ion:276 Resp: 196321

Ion Ratio Lower Upper

276 100

138 26.3 0.0 0.0#

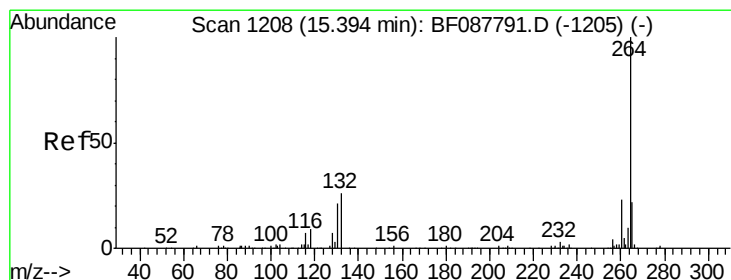
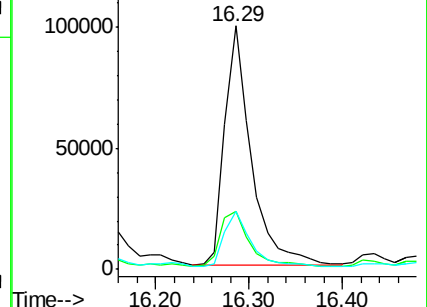
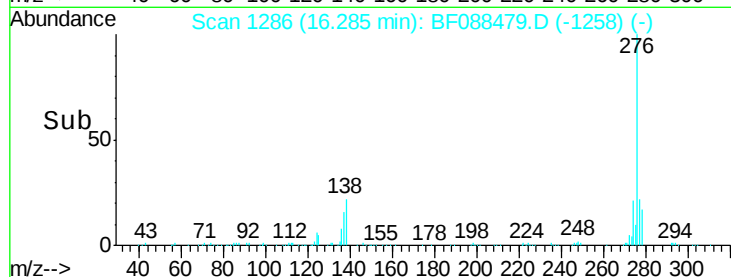
277 23.5 0.0 0.0#



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.05 min Scan# 1178

Delta R.T. 0.02 min

Lab File: BF088479.D

Acq: 28 Jun 2016 6:04

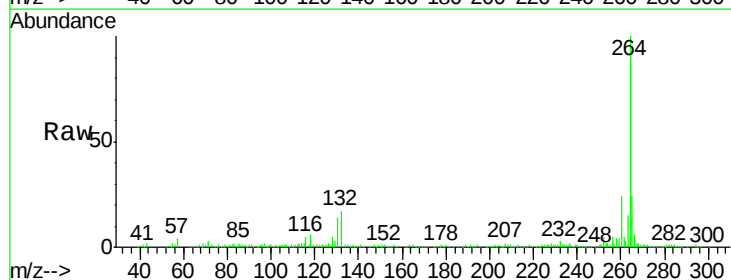
Tgt Ion:264 Resp: 172607

Ion Ratio Lower Upper

264 100

260 23.5 19.2 28.8

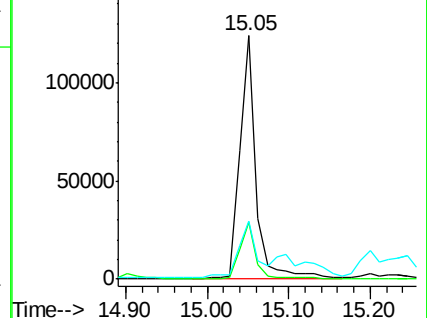
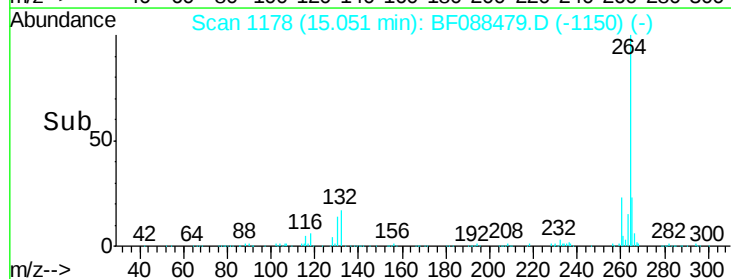
265 23.7 16.9 25.3

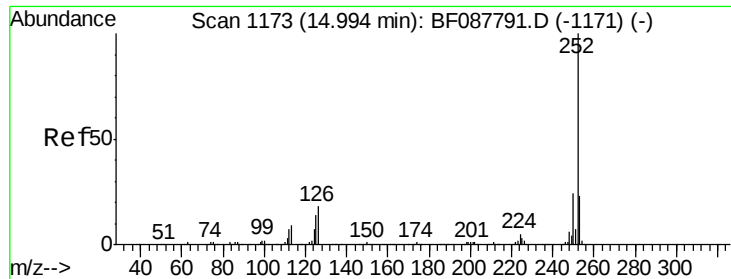


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 45.72 ng m

RT: 14.69 min Scan# 1146

Delta R.T. 0.01 min

Lab File: BF088479.D

Acq: 28 Jun 2016 6:04

Instrument :

BNA_F

ClientSampleId :

SC-STA-1481(0-4)DL

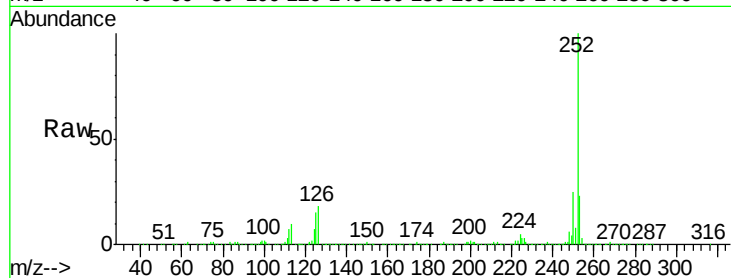
Tot Ion:252 Resp: 550009

Ion Ratio Lower Upper

252 100

253 23.0 17.4 26.2

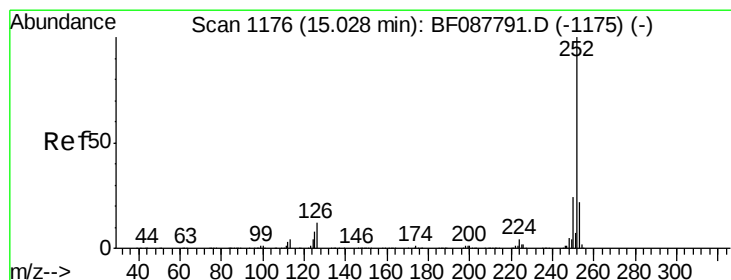
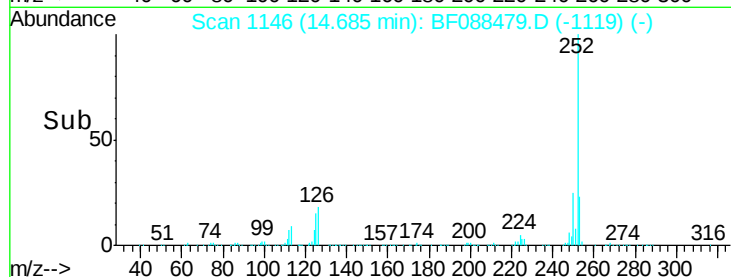
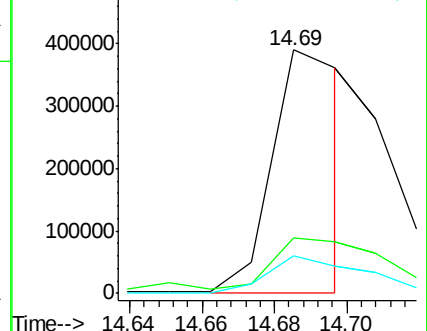
125 15.2 7.1 10.7#



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: 32.12 ng m

RT: 14.70 min Scan# 1147

Delta R.T. -0.00 min

Lab File: BF088479.D

Acq: 28 Jun 2016 6:04

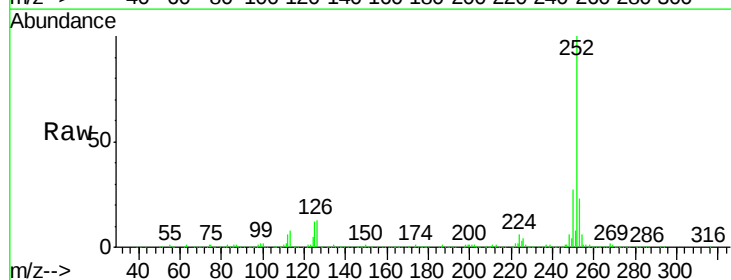
Tgt Ion:252 Resp: 291453

Ion Ratio Lower Upper

252 100

253 23.0 18.0 27.0

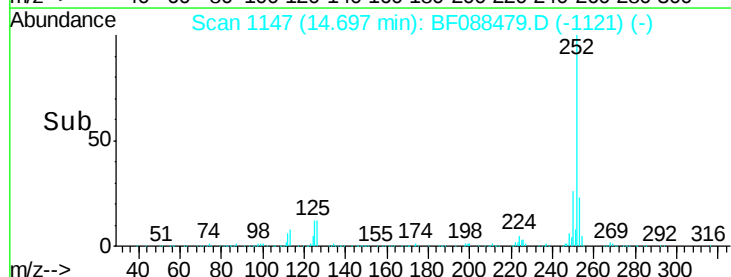
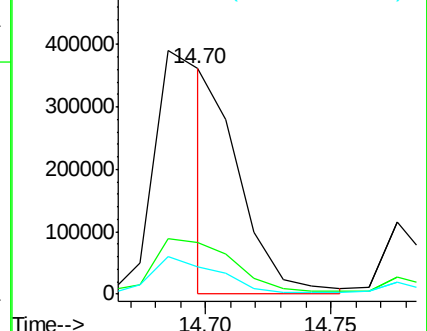
125 12.3 11.2 16.8

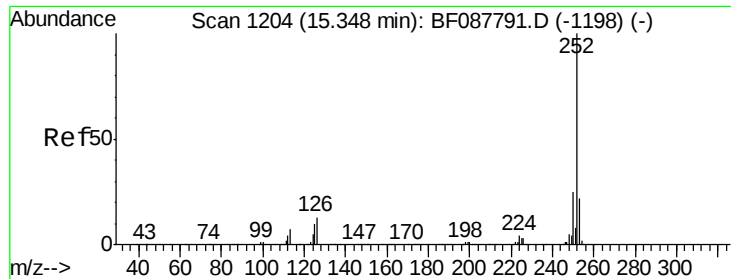


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 39.58 ng

RT: 14.99 min Scan# 1173

Delta R.T. 0.01 min

Lab File: BF088479.D

Acq: 28 Jun 2016 6:04

Instrument :

BNA_F

ClientSampleId :

SC-STA-1481(0-4)DL

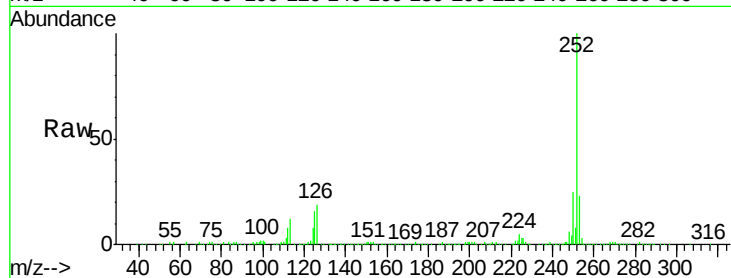
Tot Ion:252 Resp: 385277

Ion Ratio Lower Upper

252 100

253 22.6 17.9 26.9

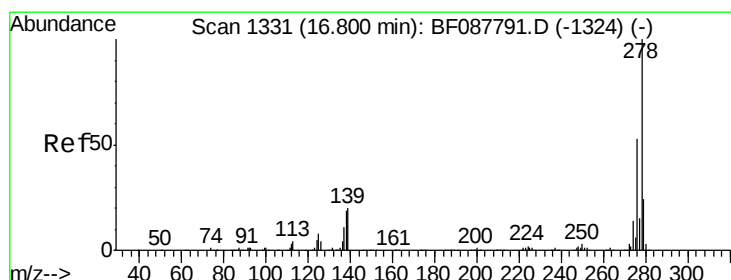
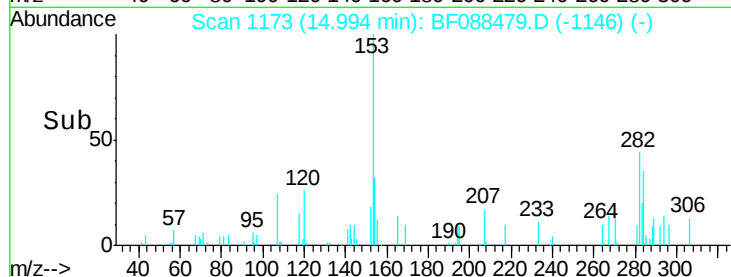
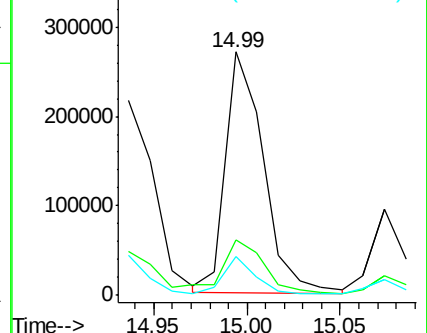
125 15.8 12.5 18.7



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: 5.65 ng m

RT: 16.27 min Scan# 1285

Delta R.T. 0.01 min

Lab File: BF088479.D

Acq: 28 Jun 2016 6:04

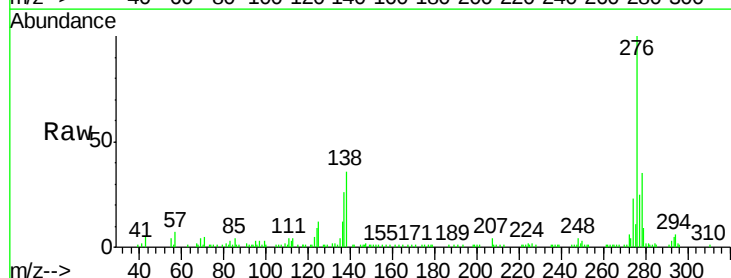
Tgt Ion:278 Resp: 51084

Ion Ratio Lower Upper

278 100

139 0.0 15.7 23.5#

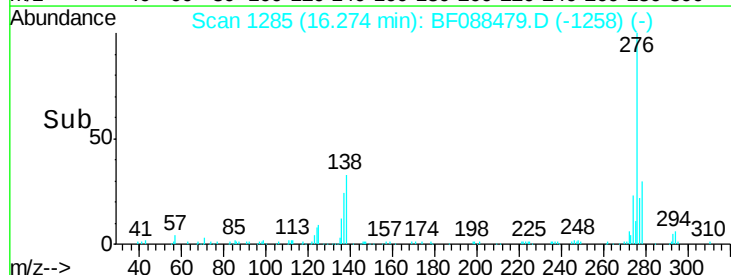
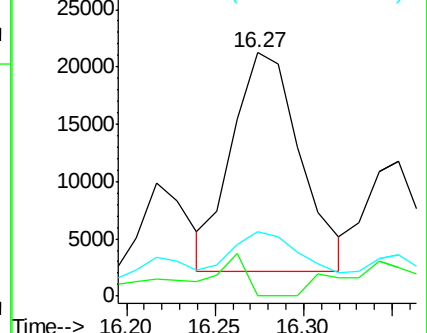
279 26.3 19.4 29.2

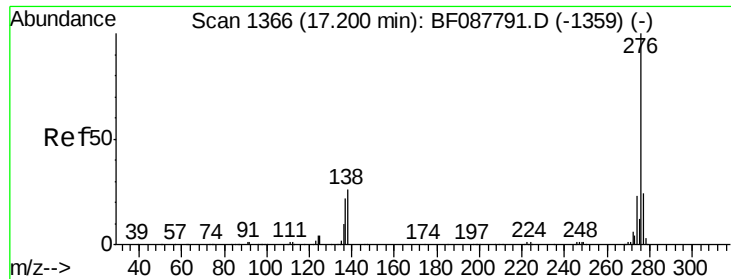


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 17.02 ng

RT: 16.65 min Scan# 1318

Delta R.T. 0.02 min

Lab File: BF088479.D

Acq: 28 Jun 2016 6:04

Instrument :

BNA_F

ClientSampleId :

SC-STA-1481(0-4)DL

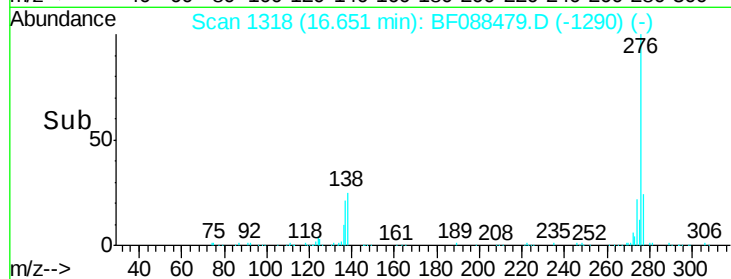
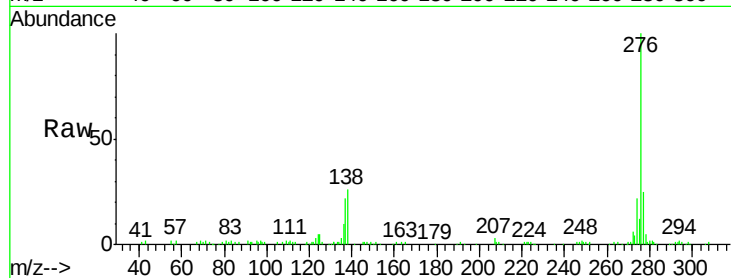
Tot Ion:276 Resp: 158273

Ion Ratio Lower Upper

276 100

277 25.0 18.9 28.3

138 26.1 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

