

Data Path : Z:\HPCHEM1\BNA F\DATA\BF031517\
 Data File : BF093668.D
 Acq On : 15 Mar 2017 15:24
 Operator : SJ/MA
 Sample : I2233-04 2X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-239

Quant Time: Mar 16 07:40:36 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 13 15:05:08 2017
 Response via : Initial Calibration

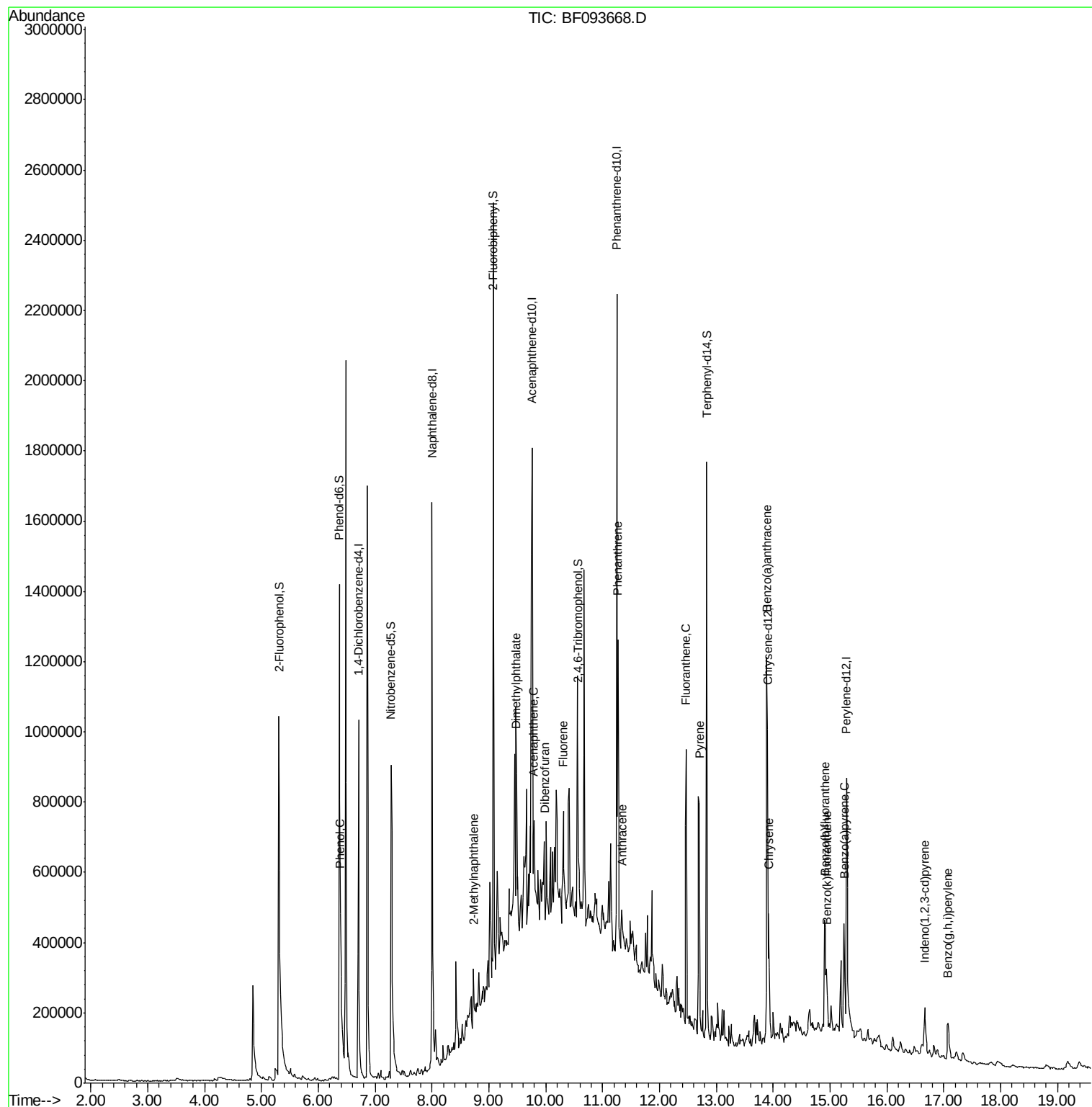
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	187350	20.00	ng	-0.01
21) Naphthalene-d8	8.00	136	781486	20.00	ng	-0.01
38) Acenaphthene-d10	9.76	164	358940	20.00	ng	0.00
63) Phenanthrene-d10	11.25	188	621251	20.00	ng	0.00
75) Chrysene-d12	13.90	240	412623	20.00	ng	0.01
86) Perylene-d12	15.29	264	344293	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	573480	50.95	ng	-0.01
7) Phenol-d6	6.37	99	885128	62.35	ng	-0.01
23) Nitrobenzene-d5	7.28	82	553156	39.27	ng	-0.02
41) 2,4,6-Tribromophenol	10.56	330	95216	40.72	ng	0.01
44) 2-Fluorobiphenyl	9.08	172	835259	43.28	ng	-0.01
78) Terphenyl-d14	12.84	244	649839	40.95	ng	0.01
Target Compounds						Qvalue
10) Phenol	6.39	94	49425	2.84	ng	85
37) 2-Methylnaphthalene	8.73	142	51680	2.07	ng	97
49) Dimethylphthalate	9.49	163	93228	3.92	ng	99
51) Acenaphthene	9.80	154	55385	2.84	ng	92
54) Dibenzofuran	9.98	168	74757	3.06	ng	95
57) Fluorene	10.31	166	69200	3.34	ng	98
70) Phenanthrene	11.27	178	387386	10.92	ng	99
71) Anthracene	11.34	178	76038m	2.12	ng	
74) Fluoranthene	12.47	202	441679	12.89	ng	94
77) Pyrene	12.70	202	402340	13.41	ng	99
80) Benzo(a)anthracene	13.89	228	156911m	6.44	ng	
82) Chrysene	13.92	228	168001m	7.45	ng	
85) Indeno(1,2,3-cd)pyrene	16.67	276	101058	5.36	ng	97
87) Benzo(b)fluoranthene	14.91	252	201036m	9.59	ng	
88) Benzo(k)fluoranthene	14.94	252	71168m	3.52	ng	
89) Benzo(a)pyrene	15.25	252	145594	7.60	ng	98
91) Benzo(a,h,i)perylene	17.08	276	106769	6.56	ng	# 88

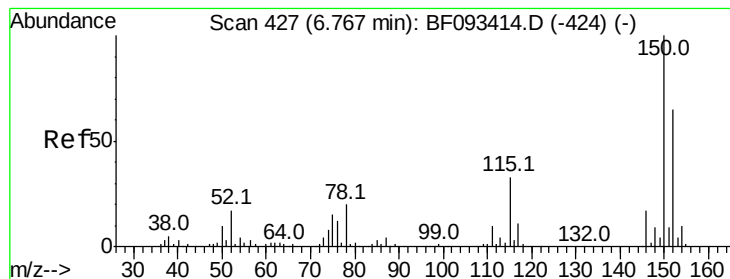
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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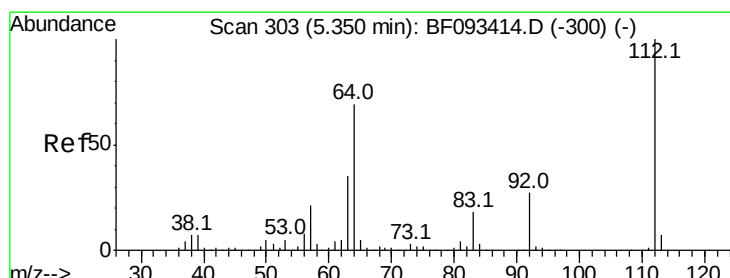
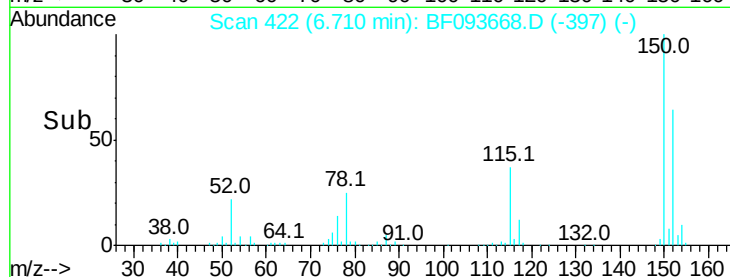
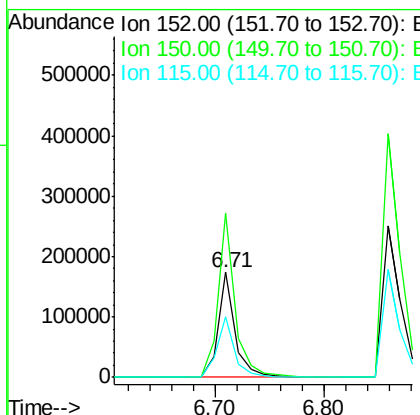
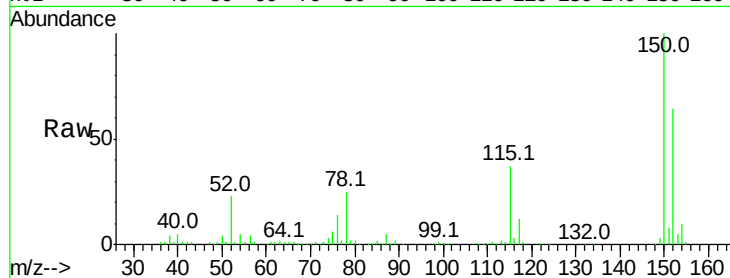


#1

1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.71 min Scan# 422
 Delta R.T. -0.01 min
 Lab File: BF093668.D
 Acq: 15 Mar 2017 15:24

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-239

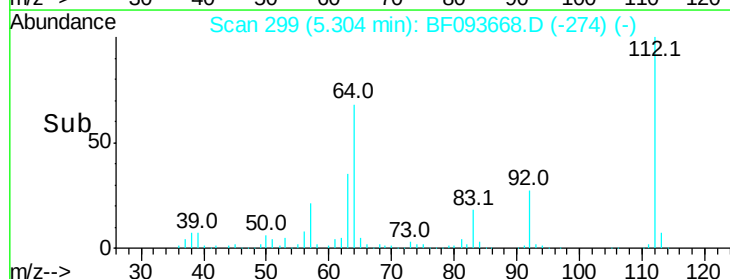
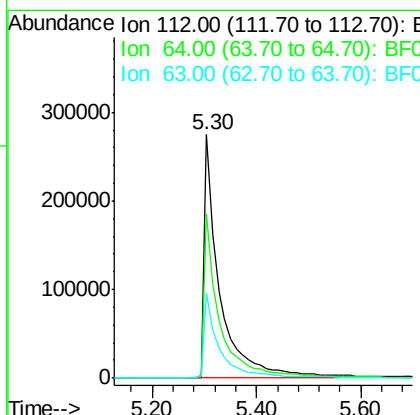
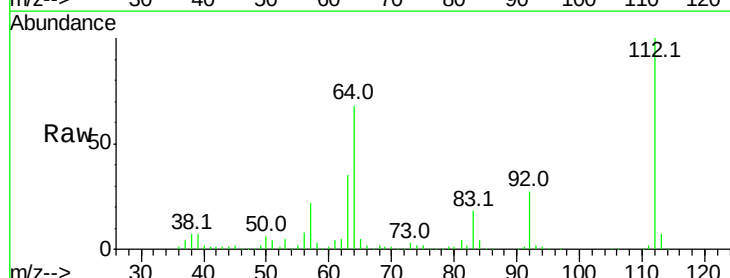
Tot Ion:152 Resp: 187350
 Ion Ratio Lower Upper
 152 100
 150 155.7 124.9 187.3
 115 58.1 46.0 69.0

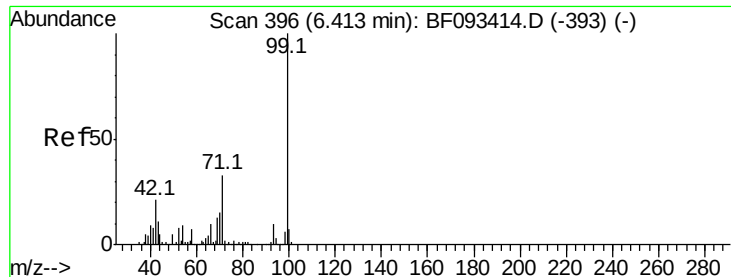


#5

2-Fluorophenol
 Concen: 50.95 ng
 RT: 5.30 min Scan# 299
 Delta R.T. -0.01 min
 Lab File: BF093668.D
 Acq: 15 Mar 2017 15:24

Tgt Ion:112 Resp: 573480
 Ion Ratio Lower Upper
 112 100
 64 67.6 46.1 69.1
 63 34.9 23.8 35.6





#7

Phenol-d6

Concen: 62.35 ng

RT: 6.37 min Scan# 392

Delta R.T. -0.01 min

Lab File: BF093668.D

Acq: 15 Mar 2017 15:24

Instrument :

BNA_F

ClientSampleId :

VNJ-239

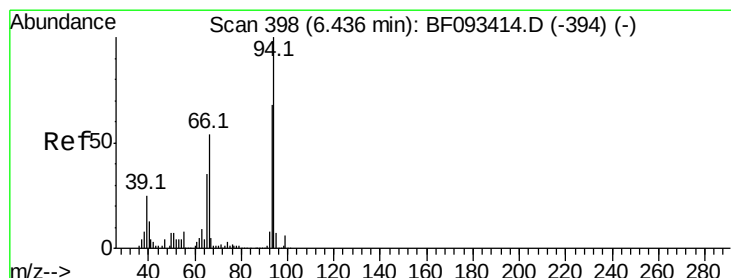
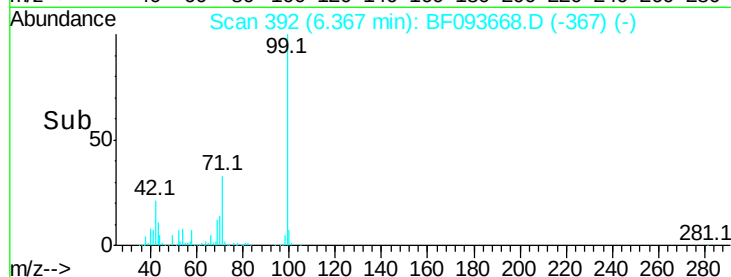
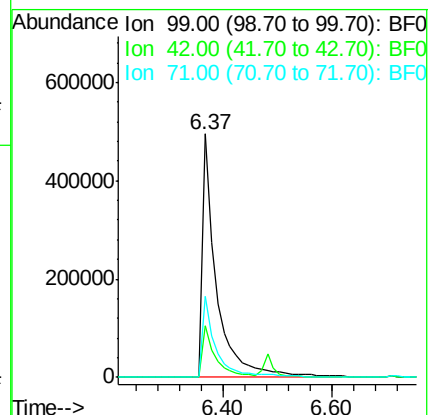
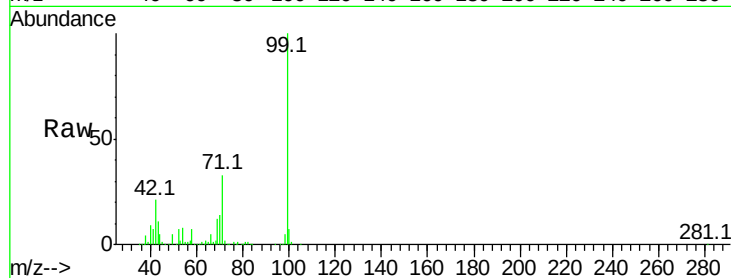
Tot Ion: 99 Resp: 885128

Ion Ratio Lower Upper

99 100

42 21.2 15.6 23.4

71 33.3 27.5 41.3



#10

Phenol

Concen: 2.84 ng

RT: 6.39 min Scan# 394

Delta R.T. -0.01 min

Lab File: BF093668.D

Acq: 15 Mar 2017 15:24

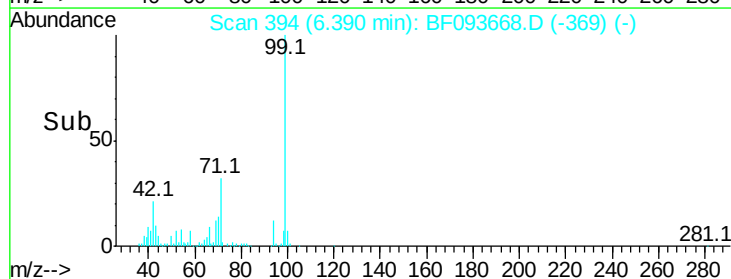
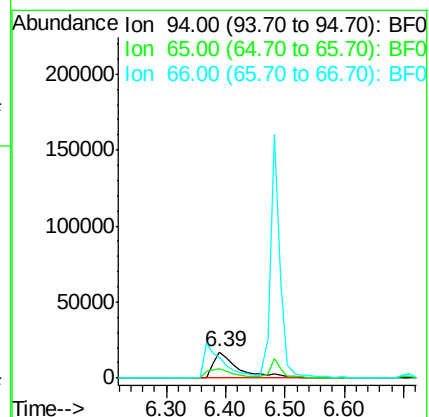
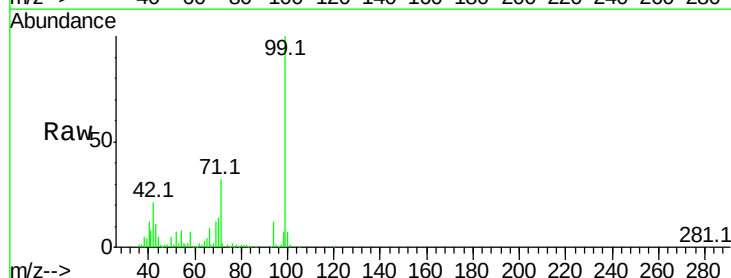
Tgt Ion: 94 Resp: 49425

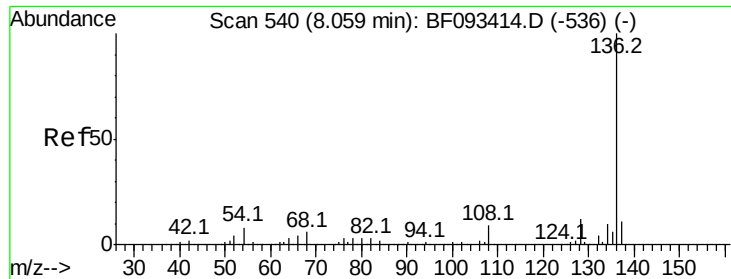
Ion Ratio Lower Upper

94 100

65 35.1 21.4 61.4

66 78.2 44.0 84.0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.00 min Scan# 535

Delta R.T. -0.01 min

Lab File: BF093668.D

Acq: 15 Mar 2017 15:24

Instrument :

BNA_F

ClientSampleId :

VNJ-239

Tot Ion:136 Resp: 781486

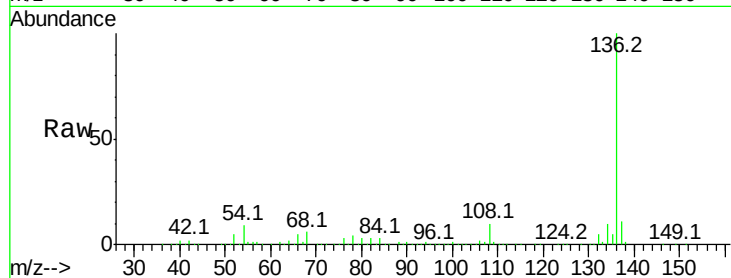
Ion Ratio Lower Upper

136 100

137 11.0 8.4 12.6

54 9.1 4.5 6.7#

68 6.4 3.6 5.4#

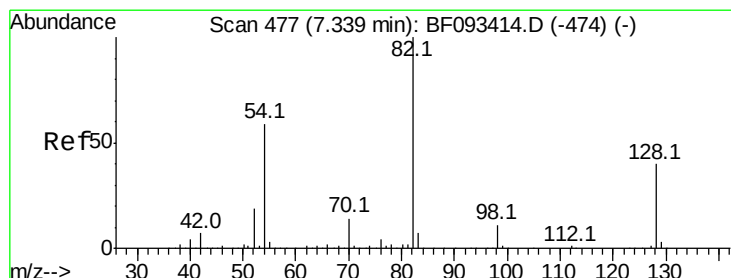
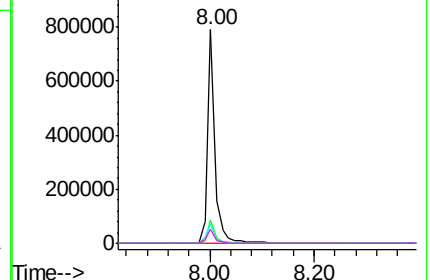
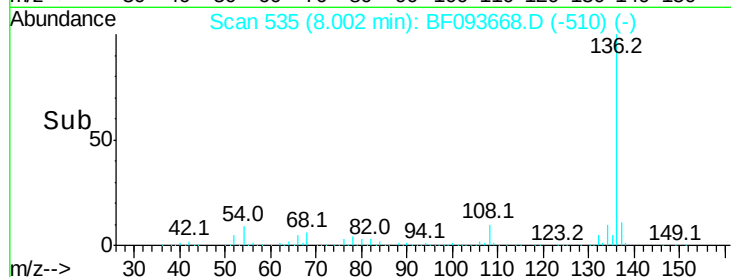


Abundance Ion 136.00 (135.70 to 136.70): E

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: 39.27 ng

RT: 7.28 min Scan# 472

Delta R.T. -0.02 min

Lab File: BF093668.D

Acq: 15 Mar 2017 15:24

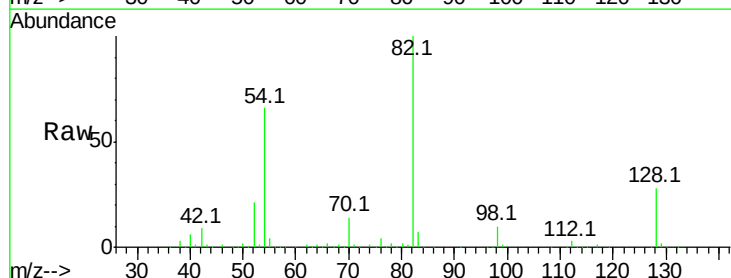
Tgt Ion: 82 Resp: 553156

Ion Ratio Lower Upper

82 100

128 28.3 34.6 52.0#

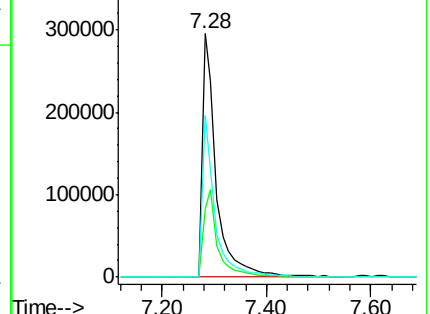
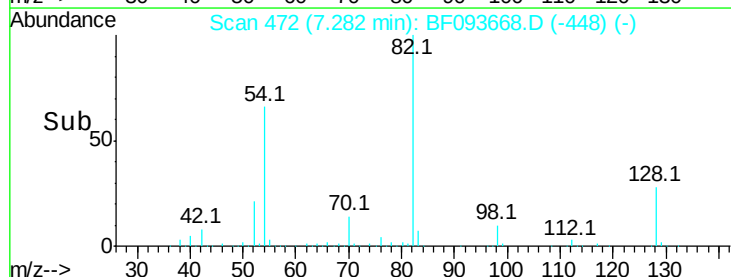
54 66.2 39.5 59.3#

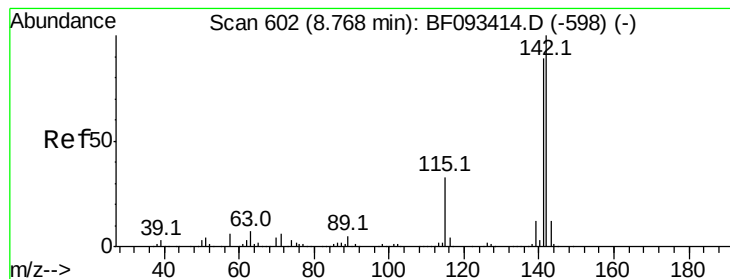


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#37

2-Methylnaphthalene

Concen: 2.07 ng

RT: 8.73 min Scan# 599

Delta R.T. 0.01 min

Lab File: BF093668.D

Acq: 15 Mar 2017 15:24

Instrument :

BNA_F

ClientSampleId :

VNJ-239

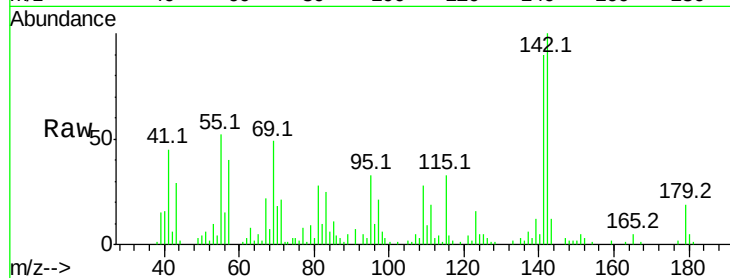
Tot Ion:142 Resp: 51680

Ion Ratio Lower Upper

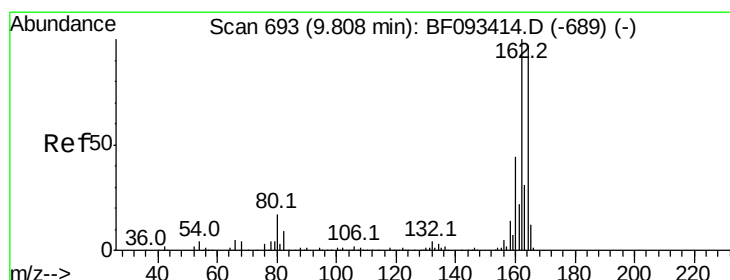
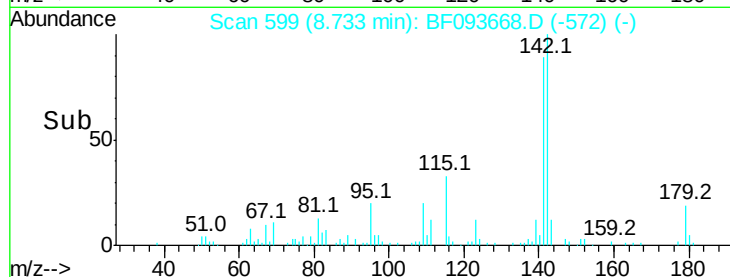
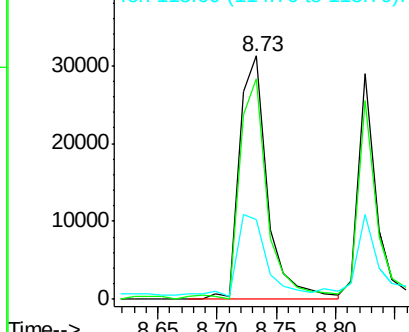
142 100

141 90.3 71.0 106.6

115 32.6 28.3 42.5



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.76 min Scan# 689

Delta R.T. 0.00 min

Lab File: BF093668.D

Acq: 15 Mar 2017 15:24

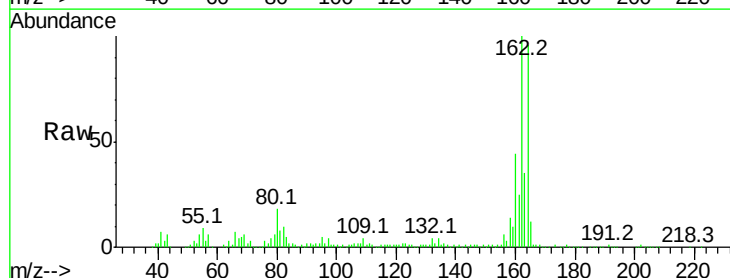
Tgt Ion:164 Resp: 358940

Ion Ratio Lower Upper

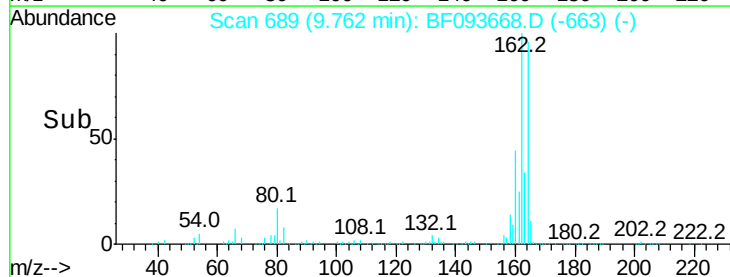
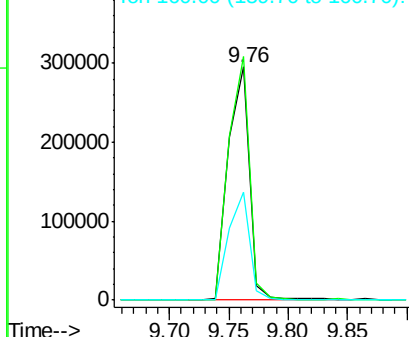
164 100

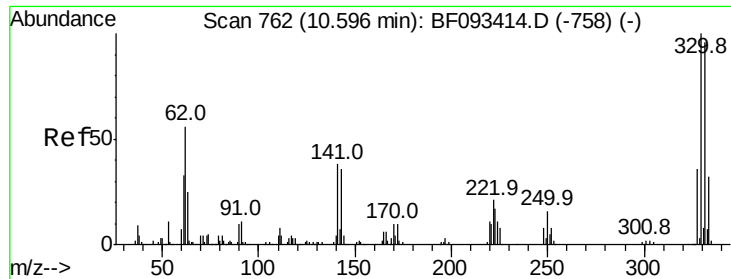
162 104.6 80.2 120.2

160 46.5 36.9 55.3



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

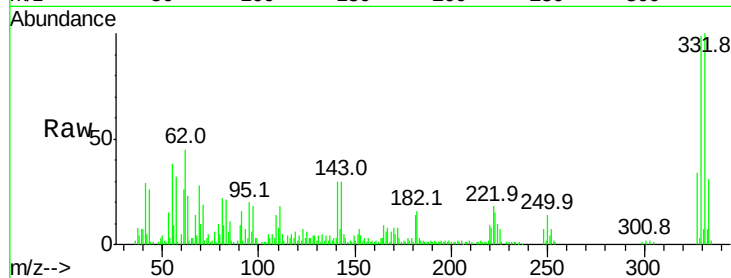




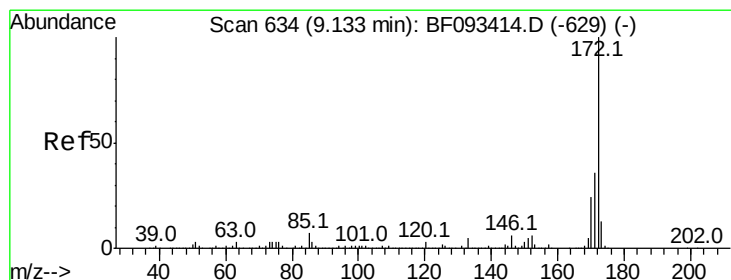
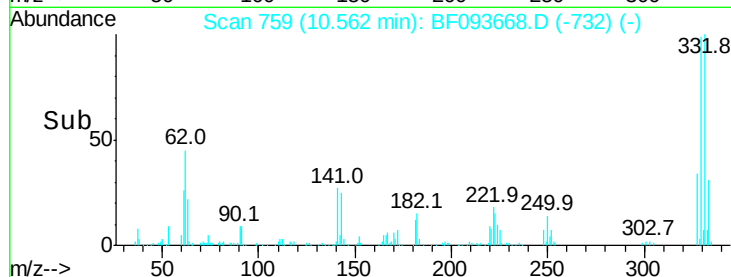
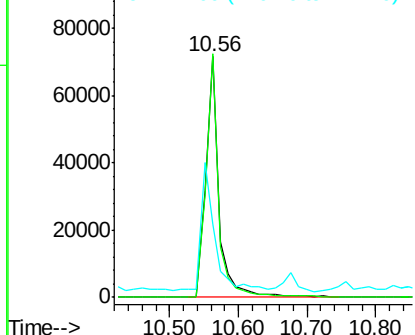
#41
 2,4,6-Tribromophenol
 Concen: 40.72 ng
 RT: 10.56 min Scan# 759
 Delta R.T. 0.01 min
 Lab File: BF093668.D
 Acq: 15 Mar 2017 15:24

Instrument :
 BNA_F
 ClientSampleID :
 VNJ-239

Tot Ion:330 Resp: 95216
 Ion Ratio Lower Upper
 330 100
 332 97.0 77.4 116.2
 141 52.6 34.1 51.1#

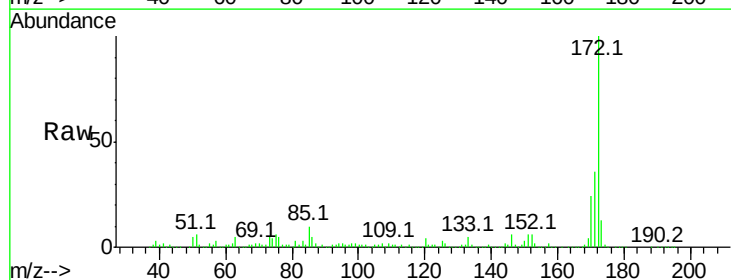


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

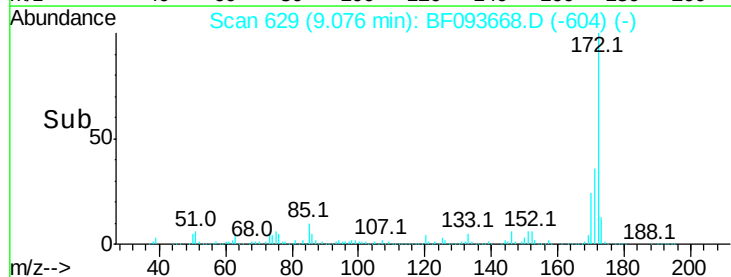
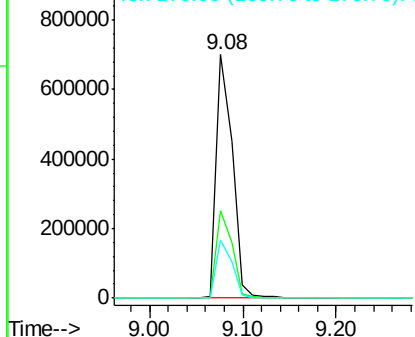


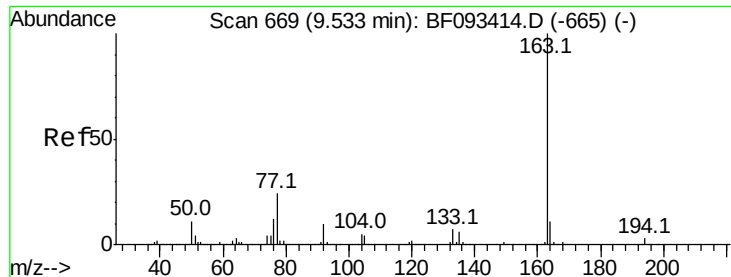
#44
 2-Fluorobiphenyl
 Concen: 43.28 ng
 RT: 9.08 min Scan# 629
 Delta R.T. -0.01 min
 Lab File: BF093668.D
 Acq: 15 Mar 2017 15:24

Tgt Ion:172 Resp: 835259
 Ion Ratio Lower Upper
 172 100
 171 36.0 29.4 44.0
 170 23.7 20.2 30.4



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





#49

Dimethylphthalate

Concen: 3.92 ng

RT: 9.49 min Scan# 665

Delta R.T. -0.01 min

Lab File: BF093668.D

Acq: 15 Mar 2017 15:24

Instrument :

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ClientSampleId :

VNJ-239

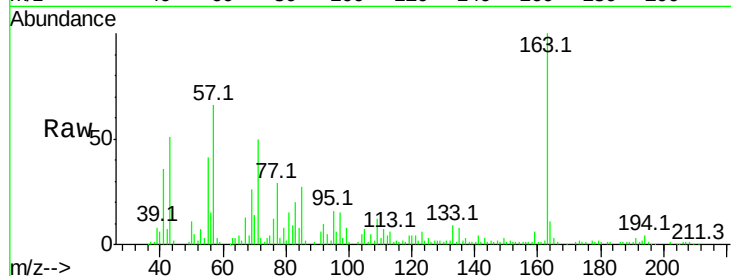
Tot Ion:163 Resp: 93228

Ion Ratio Lower Upper

163 100

194 3.8 3.0 4.4

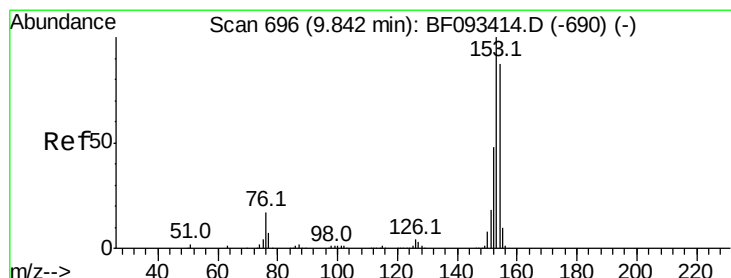
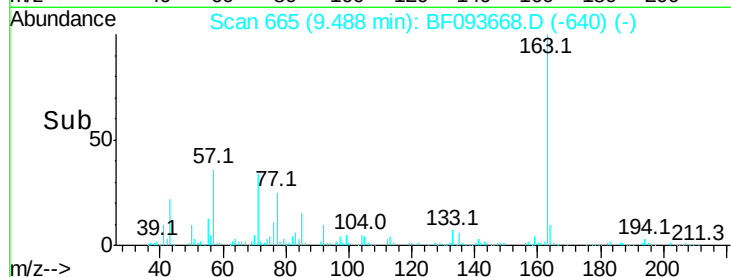
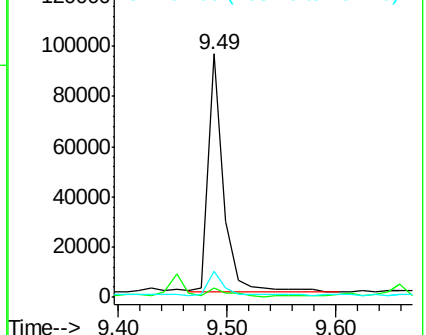
164 10.5 8.0 12.0



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



#51

Acenaphthene

Concen: 2.84 ng

RT: 9.80 min Scan# 692

Delta R.T. 0.00 min

Lab File: BF093668.D

Acq: 15 Mar 2017 15:24

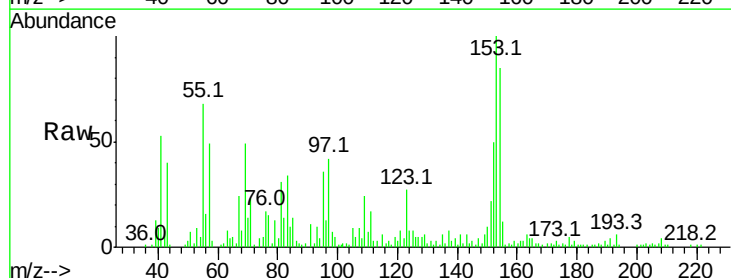
Tgt Ion:154 Resp: 55385

Ion Ratio Lower Upper

154 100

153 117.8 88.6 133.0

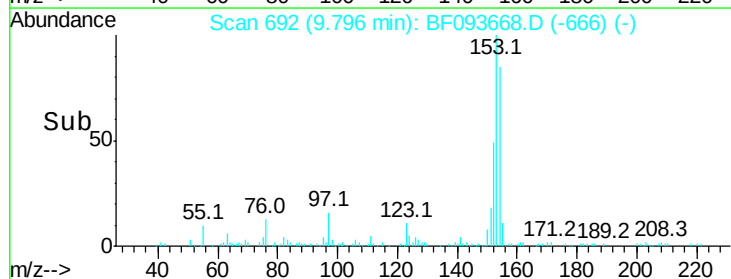
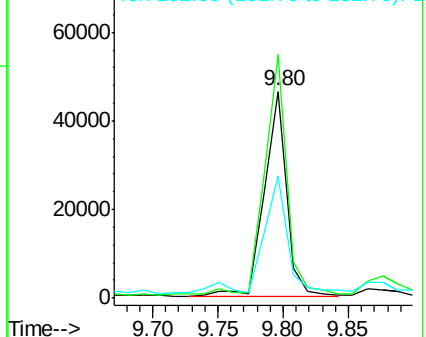
152 59.0 41.6 62.4

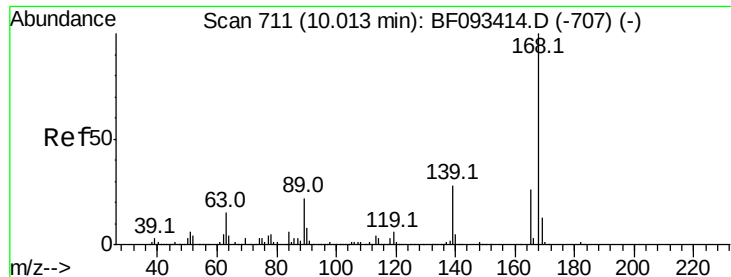


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#54

Dibenzofuran

Concen: 3.06 ng

RT: 9.98 min Scan# 708

Delta R.T. 0.01 min

Lab File: BF093668.D

Acq: 15 Mar 2017 15:24

Instrument :

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ClientSampleId :

VNJ-239

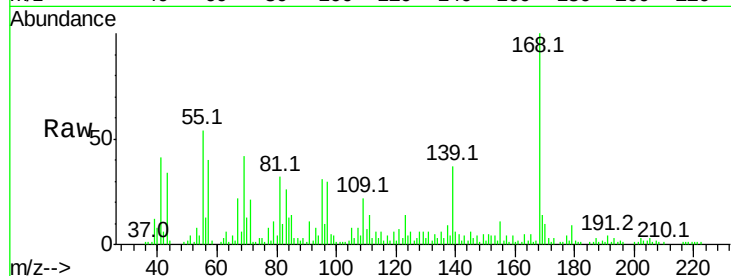
Tot Ion:168 Resp: 74757

Ion Ratio Lower Upper

168 100

139 36.7 32.6 49.0

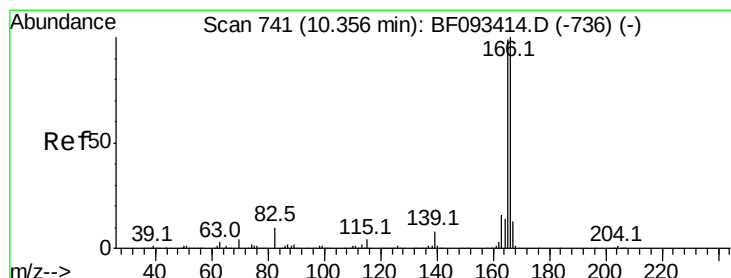
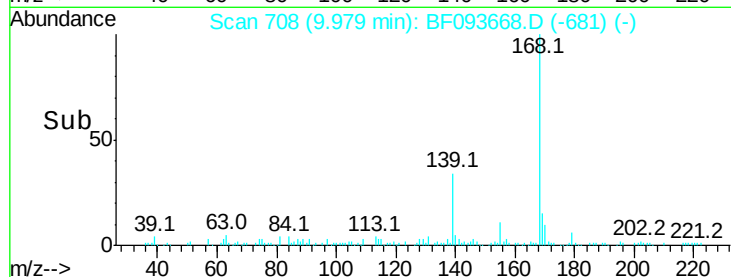
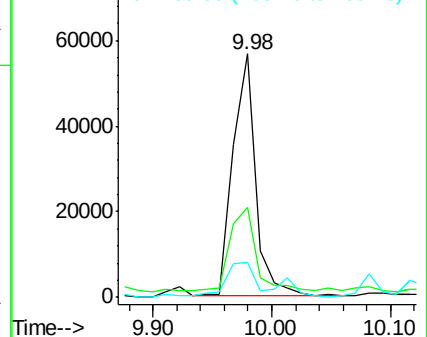
169 14.4 11.3 16.9



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#57

Fluorene

Concen: 3.34 ng

RT: 10.31 min Scan# 737

Delta R.T. 0.00 min

Lab File: BF093668.D

Acq: 15 Mar 2017 15:24

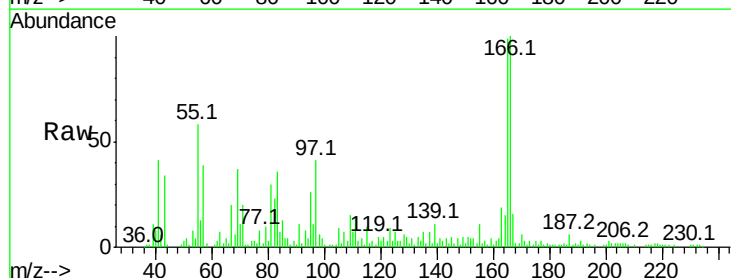
Tgt Ion:166 Resp: 69200

Ion Ratio Lower Upper

166 100

165 98.9 77.8 116.8

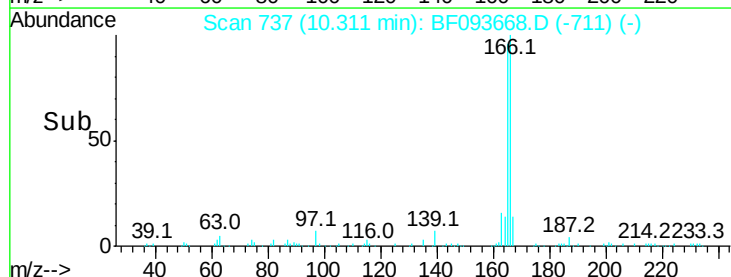
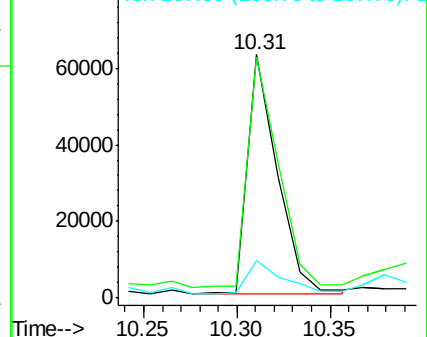
167 15.6 10.8 16.2

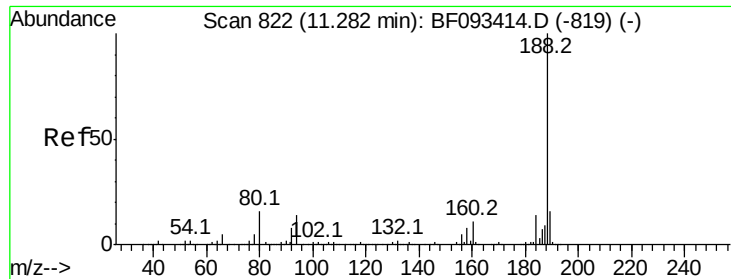


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

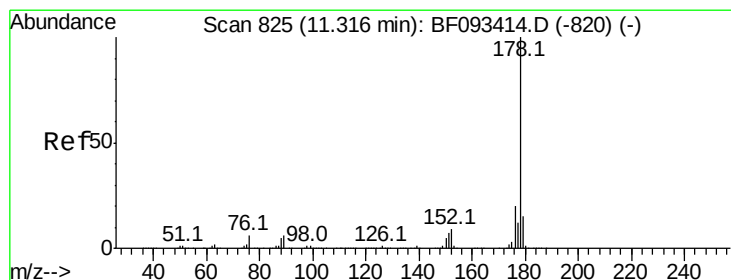
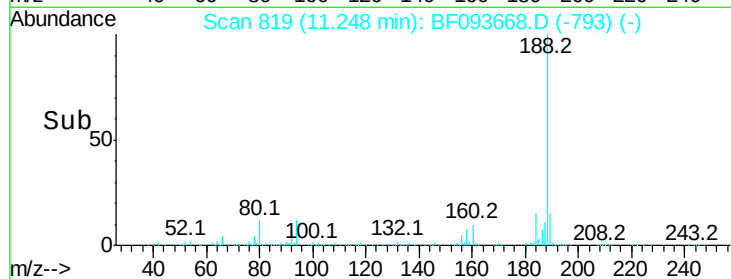
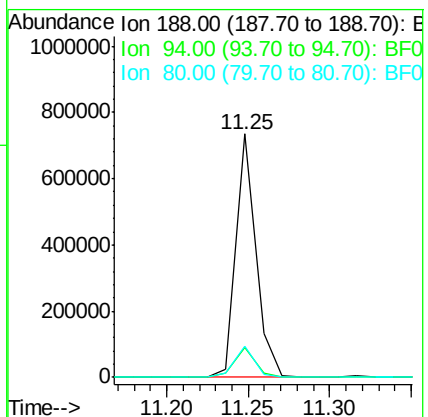
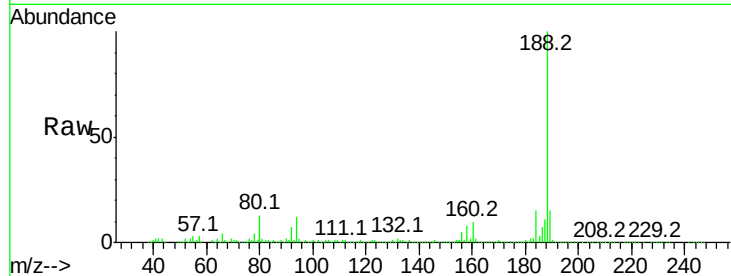




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.25 min Scan# 819
Delta R.T. 0.00 min
Lab File: BF093668.D
Acq: 15 Mar 2017 15:24

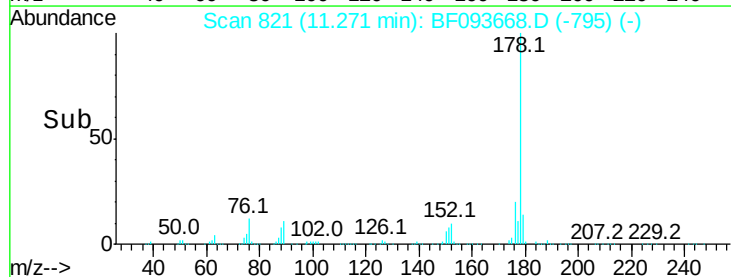
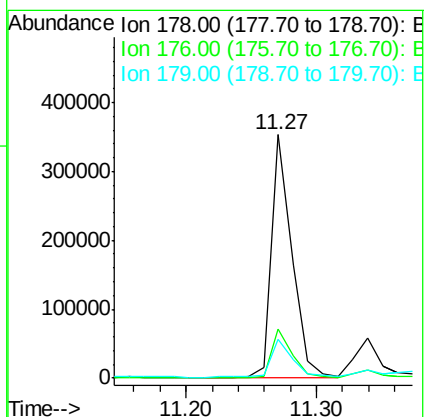
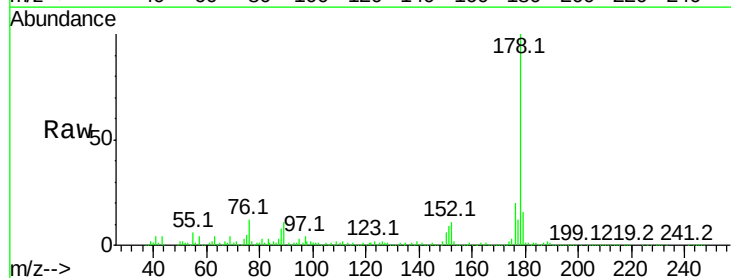
Instrument :
BNA_F
ClientSampleId :
VNJ-239

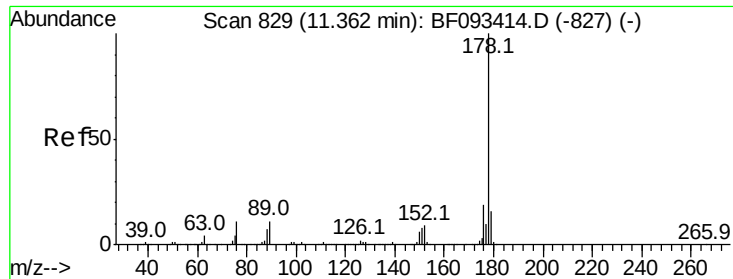
Tot Ion:188 Resp: 621251
Ion Ratio Lower Upper
188 100
94 12.1 10.0 15.0
80 12.7 11.2 16.8



#70
Phenanthrene
Concen: 10.92 ng
RT: 11.27 min Scan# 821
Delta R.T. 0.00 min
Lab File: BF093668.D
Acq: 15 Mar 2017 15:24

Tgt Ion:178 Resp: 387386
Ion Ratio Lower Upper
178 100
176 20.0 16.6 25.0
179 15.7 12.8 19.2





#71

Anthracene

Concen: 2.12 ng/mL

RT: 11.34 min Scan# 827

Delta R.T. 0.02 min

Lab File: BF093668.D

Acq: 15 Mar 2017 15:24

Instrument :

BNA_F

ClientSampleId :

VNJ-239

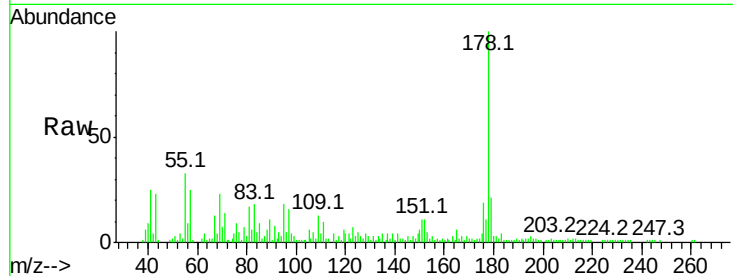
Tot Ion:178 Resp: 76038

Ion Ratio Lower Upper

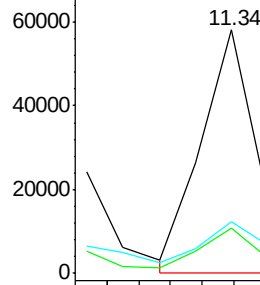
178 100

176 18.8 15.9 23.9

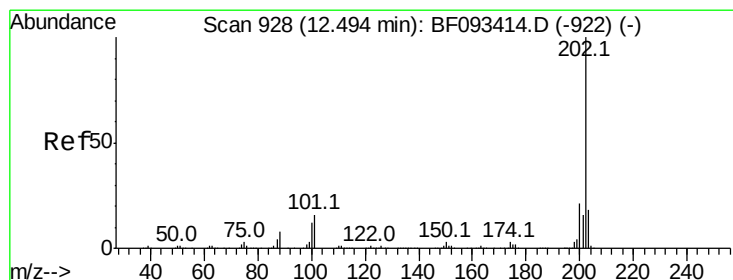
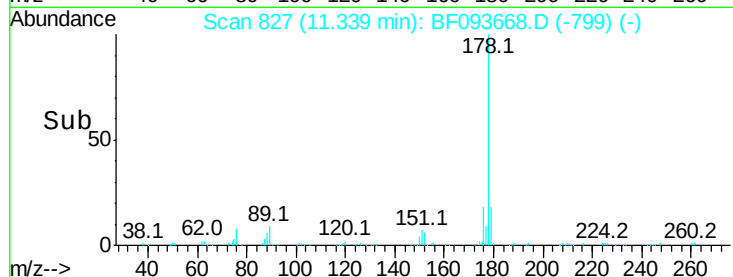
179 21.2 13.2 19.8#



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



Time-->



#74

Fluoranthene

Concen: 12.89 ng

RT: 12.47 min Scan# 926

Delta R.T. 0.01 min

Lab File: BF093668.D

Acq: 15 Mar 2017 15:24

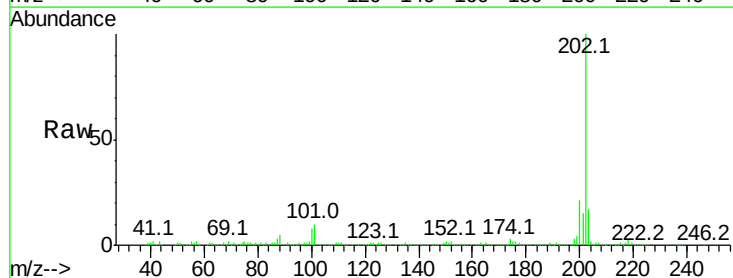
Tgt Ion:202 Resp: 441679

Ion Ratio Lower Upper

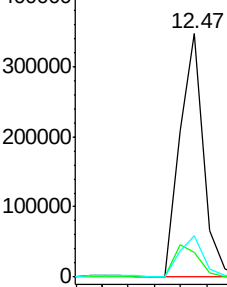
202 100

101 10.3 0.0 34.6

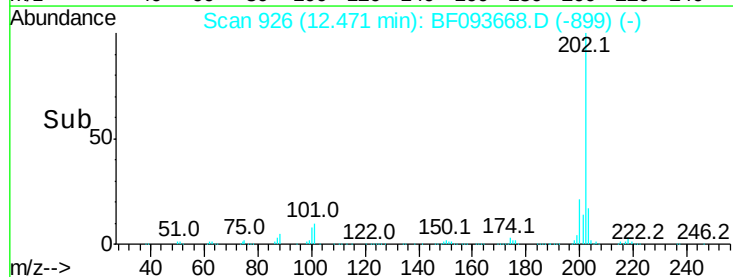
203 17.2 0.0 38.7

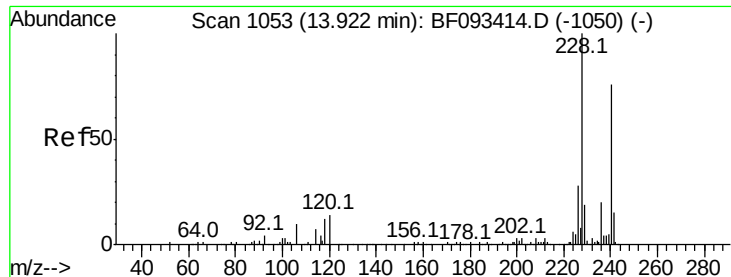


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



Time-->





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.90 min Scan# 1051

Delta R.T. 0.01 min

Lab File: BF093668.D

Acq: 15 Mar 2017 15:24

Instrument :

BNA_F

ClientSampleId :

VNJ-239

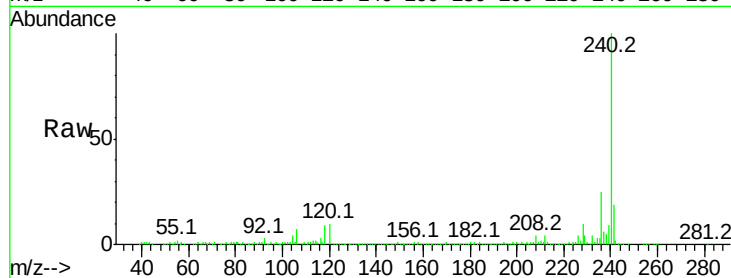
Tot Ion:240 Resp: 412623

Ion Ratio Lower Upper

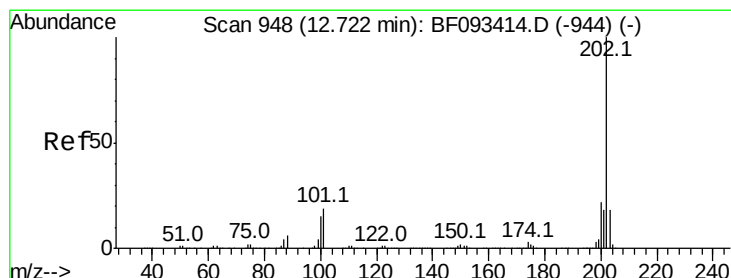
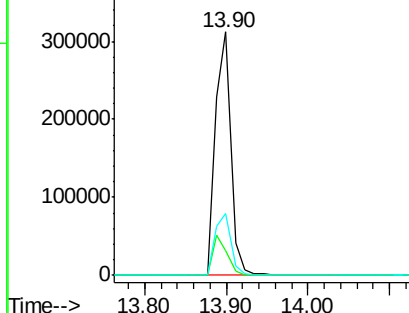
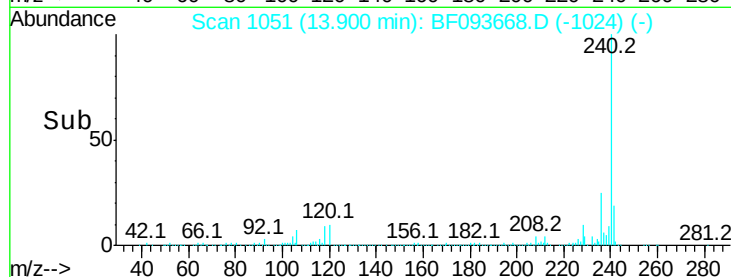
240 100

120 10.1 12.9 19.3#

236 25.5 20.9 31.3



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

Pyrene

Concen: 13.41 ng

RT: 12.70 min Scan# 946

Delta R.T. 0.02 min

Lab File: BF093668.D

Acq: 15 Mar 2017 15:24

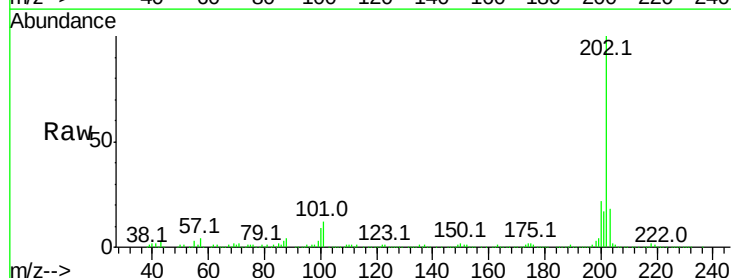
Tgt Ion:202 Resp: 402340

Ion Ratio Lower Upper

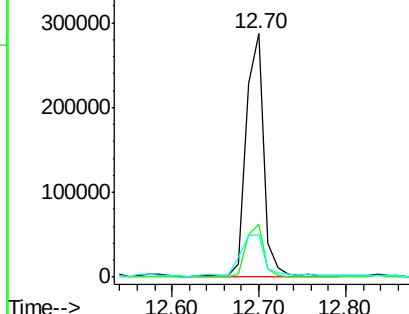
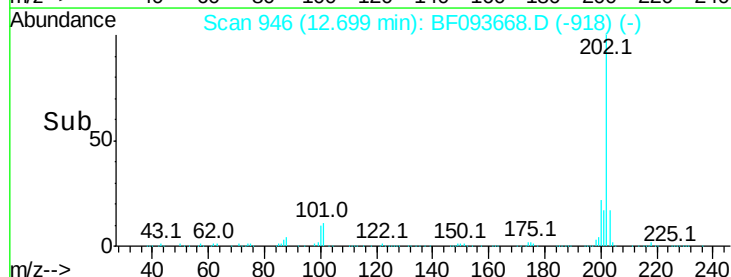
202 100

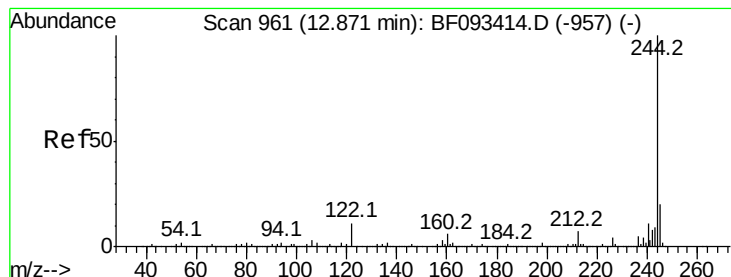
200 21.7 17.7 26.5

203 17.7 14.7 22.1



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





#78

Terphenyl-d14

Concen: 40.95 ng

RT: 12.84 min Scan# 958

Delta R.T. 0.01 min

Lab File: BF093668.D

Acq: 15 Mar 2017 15:24

Instrument :

BNA_F

ClientSampleId :

VNJ-239

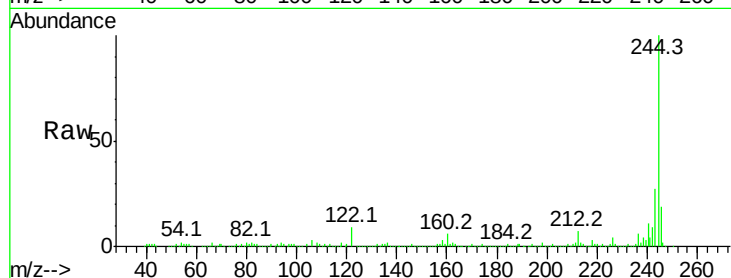
Tot Ion:244 Resp: 649839

Ion Ratio Lower Upper

244 100

212 7.3 6.2 9.2

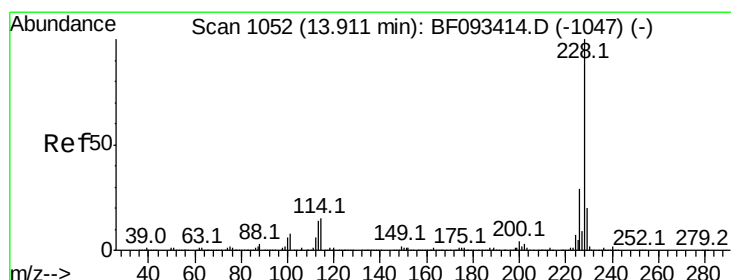
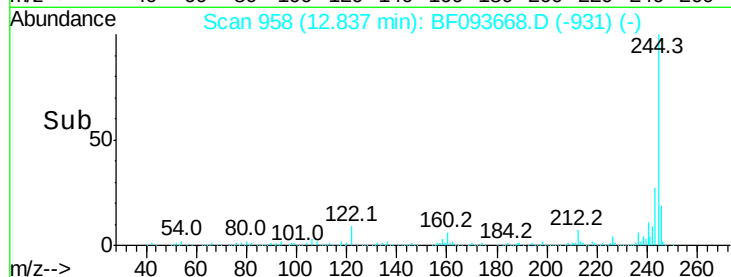
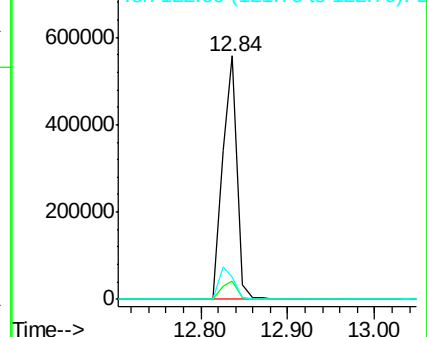
122 9.3 11.4 17.2#



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: 6.44 ng m

RT: 13.89 min Scan# 1050

Delta R.T. 0.02 min

Lab File: BF093668.D

Acq: 15 Mar 2017 15:24

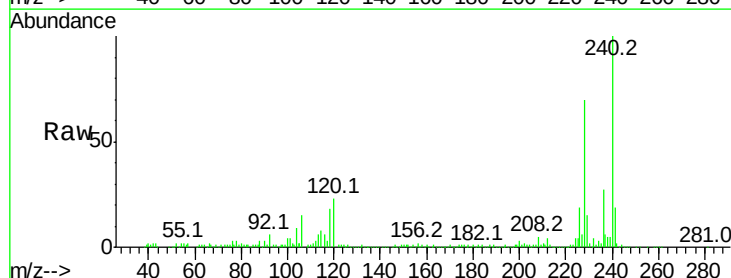
Tgt Ion:228 Resp: 156911

Ion Ratio Lower Upper

228 100

226 26.7 22.4 33.6

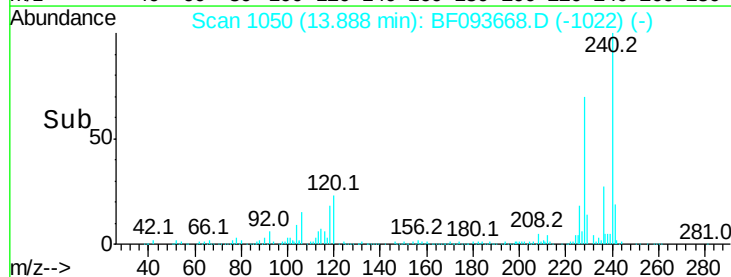
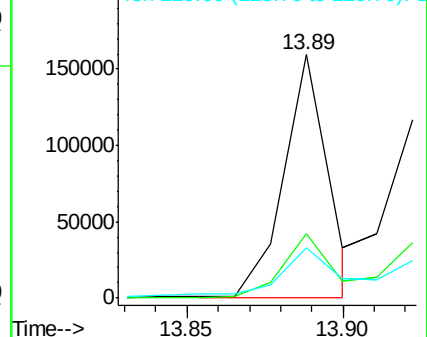
229 20.8 16.2 24.4

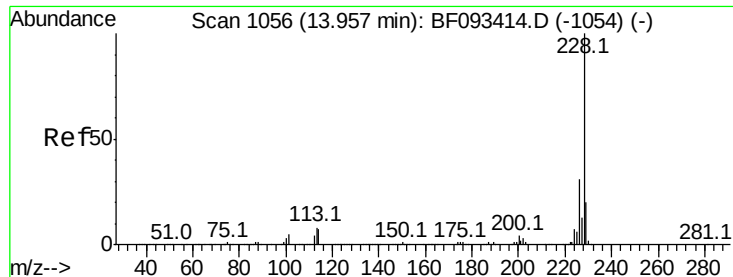


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 7.45 ng/mL

RT: 13.92 min Scan# 1053

Delta R.T. 0.01 min

Lab File: BF093668.D

Acq: 15 Mar 2017 15:24

Instrument :

BNA_F

ClientSampleID :

VNJ-239

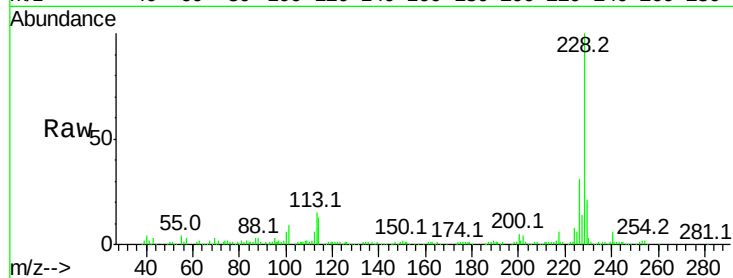
Tot Ion: 228 Resp: 168001

Ion Ratio Lower Upper

228 100

226 31.0 25.4 38.0

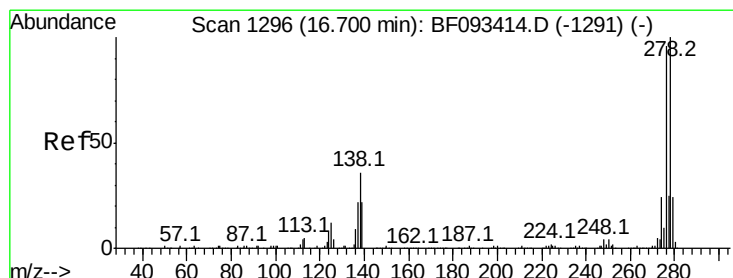
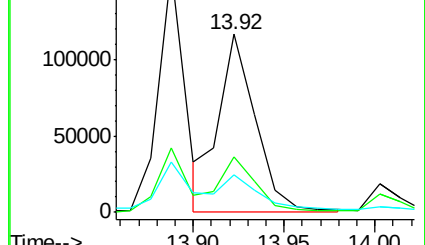
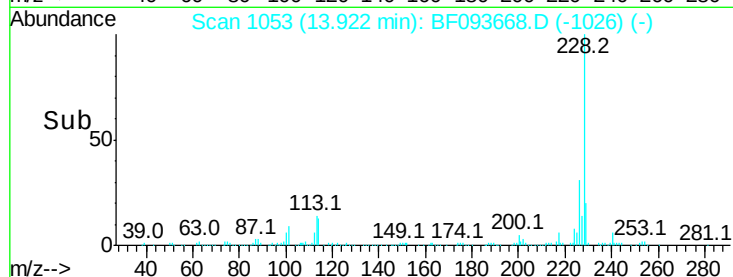
229 20.8 16.2 24.2



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: 5.36 ng/mL

RT: 16.67 min Scan# 1293

Delta R.T. 0.05 min

Lab File: BF093668.D

Acq: 15 Mar 2017 15:24

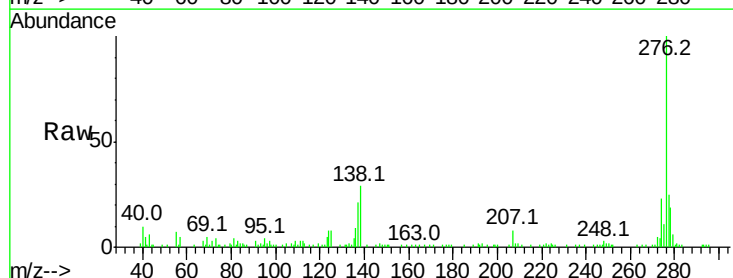
Tgt Ion: 276 Resp: 101058

Ion Ratio Lower Upper

276 100

138 29.6 21.8 32.6

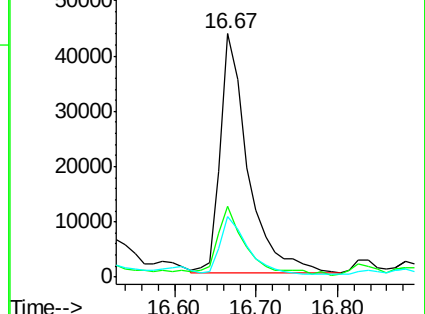
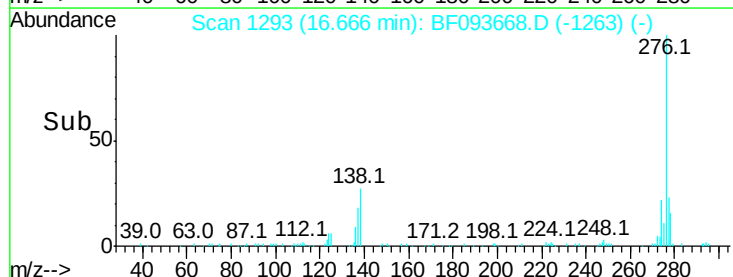
277 24.5 20.2 30.4

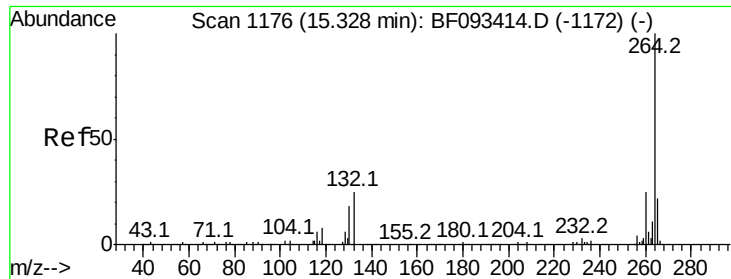


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

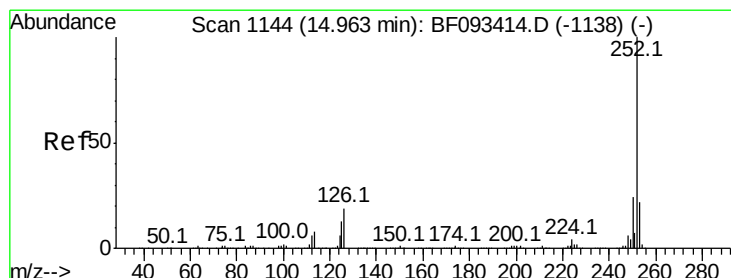
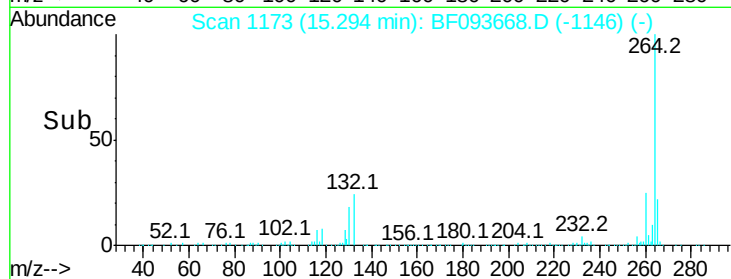
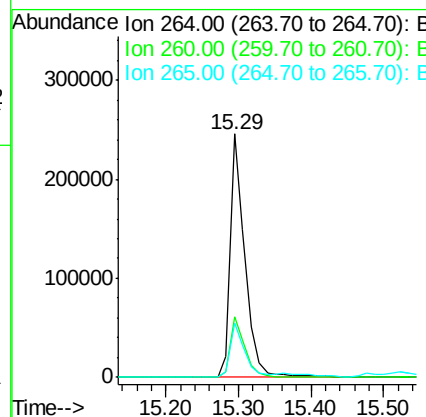
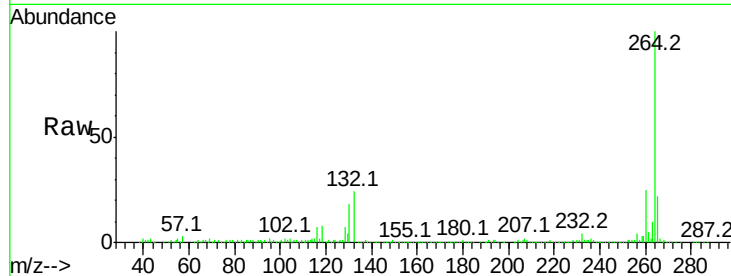




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.29 min Scan# 1173
Delta R.T. 0.01 min
Lab File: BF093668.D
Acq: 15 Mar 2017 15:24

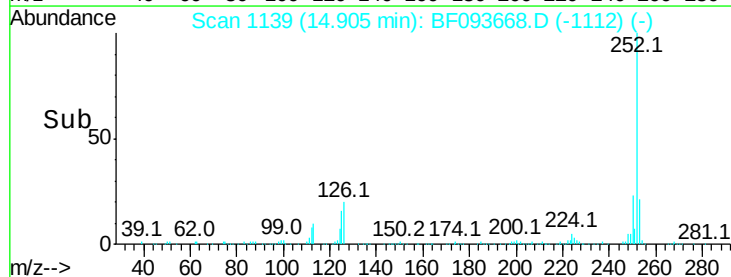
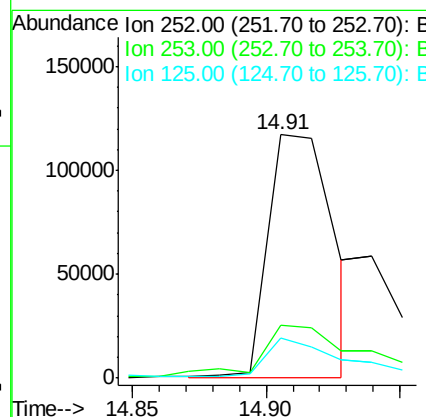
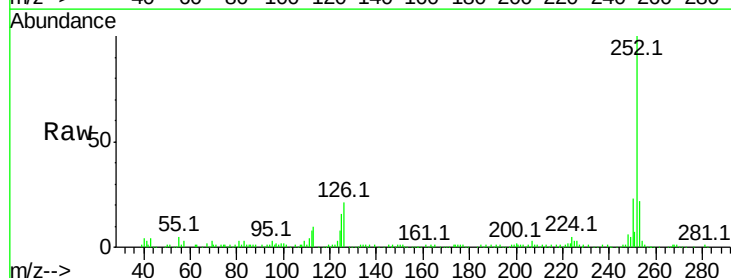
Instrument :
BNA_F
ClientSampleId :
VNJ-239

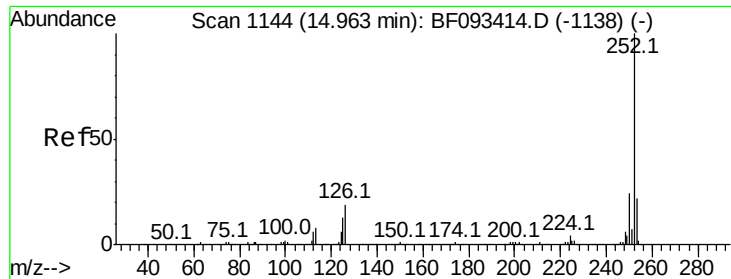
Tot Ion:264 Resp: 344293
Ion Ratio Lower Upper
264 100
260 24.7 19.2 28.8
265 22.4 17.4 26.0



#87
Benzo(b)fluoranthene
Concen: 9.59 ng m
RT: 14.91 min Scan# 1139
Delta R.T. 0.01 min
Lab File: BF093668.D
Acq: 15 Mar 2017 15:24

Tgt Ion:252 Resp: 201036
Ion Ratio Lower Upper
252 100
253 21.8 18.2 27.4
125 16.4 9.8 14.6#

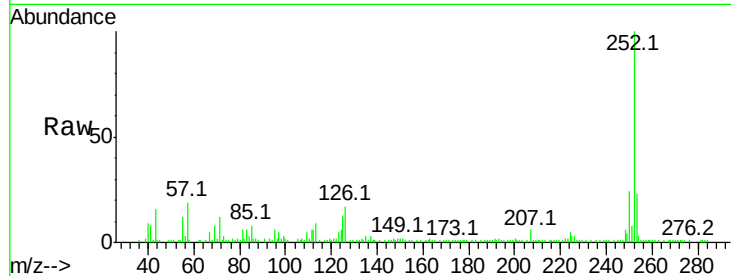




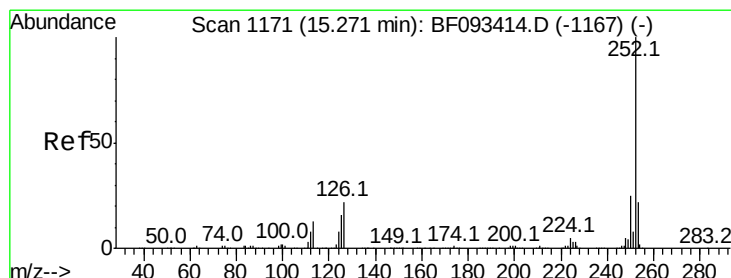
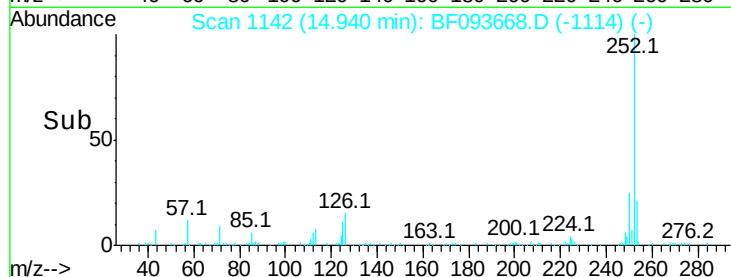
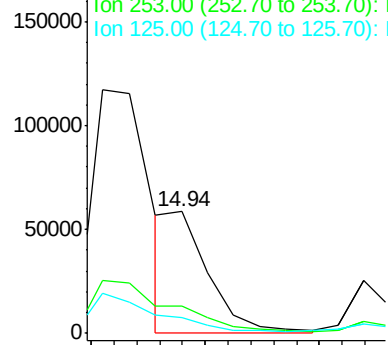
#88
Benzo(k)fluoranthene
Concen: 3.52 ng
RT: 14.94 min Scan# 1142
Delta R.T. 0.02 min
Lab File: BF093668.D
Acq: 15 Mar 2017 15:24

Instrument :
BNA_F
ClientSampleId :
VNJ-239

Tot Ion:252 Resp: 71168
Ion Ratio Lower Upper
252 100
253 22.7 18.5 27.7
125 12.6 8.9 13.3

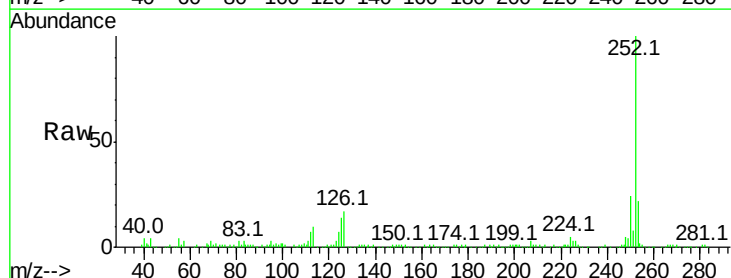


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

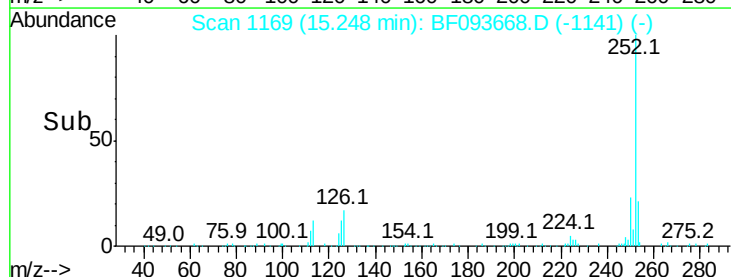
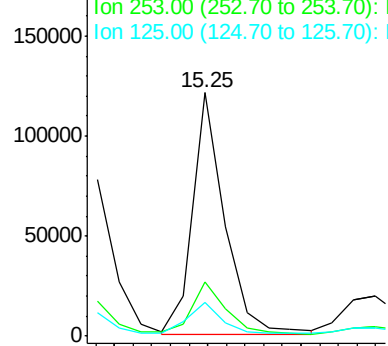


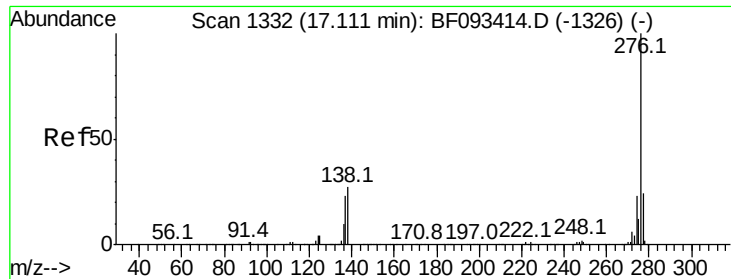
#89
Benzo(a)pyrene
Concen: 7.60 ng
RT: 15.25 min Scan# 1169
Delta R.T. 0.02 min
Lab File: BF093668.D
Acq: 15 Mar 2017 15:24

Tgt Ion:252 Resp: 145594
Ion Ratio Lower Upper
252 100
253 22.2 18.2 27.2
125 13.6 10.0 15.0



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

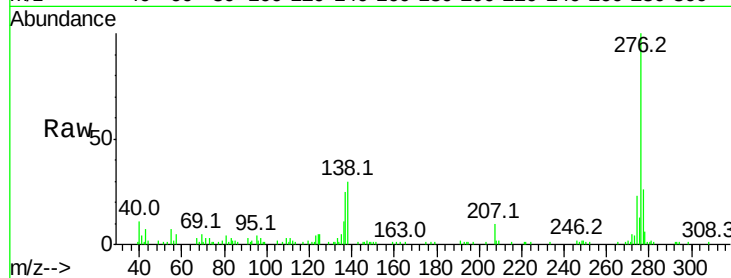




#91
 Benzo(a,h,i)perylene
 Concen: 6.56 ng
 RT: 17.08 min Scan# 1329
 Delta R.T. 0.06 min
 Lab File: BF093668.D
 Acq: 15 Mar 2017 15:24

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-239

Tot Ion	Ratio	Lower	Upper
276	100		
277	26.0	19.2	28.8
138	29.5	16.0	24.0



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

