

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
 Data File : BF097163.D
 Acq On : 28 Jul 2017 19:35
 Operator : SJ/JU
 Sample : I4418-01 2X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TCM-ROW

Quant Time: Jul 28 22:42:47 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 25 14:11:51 2017
 Response via : Initial Calibration

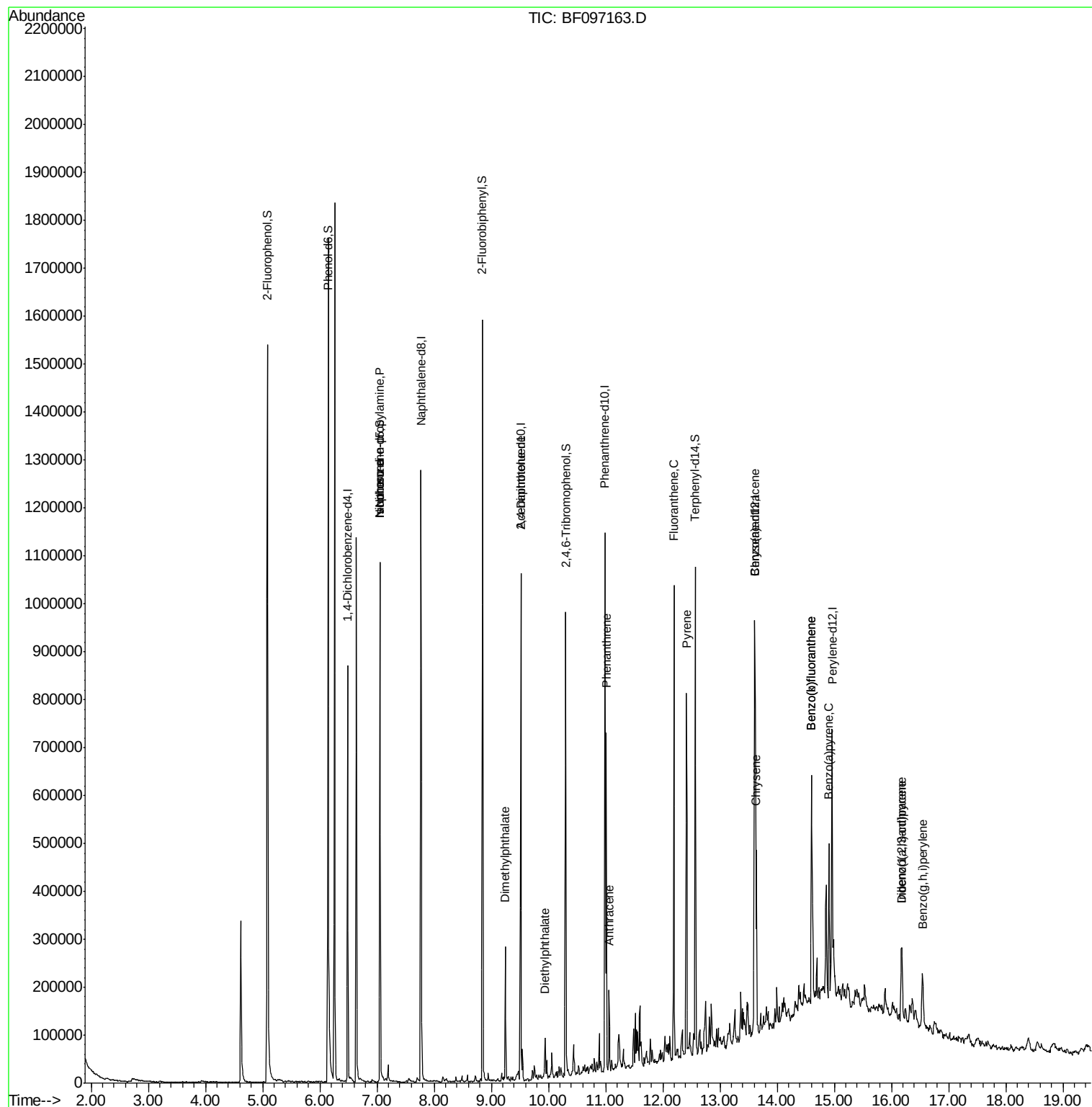
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.49	152	128714	20.00	ng	-0.01
21) Naphthalene-d8	7.77	136	549269	20.00	ng	-0.02
38) Acenaphthene-d10	9.52	164	214132	20.00	ng	-0.02
63) Phenanthrene-d10	10.99	188	370407	20.00	ng	-0.02
75) Chrysene-d12	13.61	240	223481	20.00	ng	-0.02
86) Perylene-d12	14.96	264	218500	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.08	112	466321	54.62	ng	-0.02
7) Phenol-d6	6.15	99	579719	59.47	ng	-0.02
23) Nitrobenzene-d5	7.05	82	308170	32.91	ng	-0.02
41) 2,4,6-Tribromophenol	10.30	330	92612	54.74	ng	-0.02
44) 2-Fluorobiphenyl	8.85	172	463227	36.71	ng	-0.02
78) Terphenyl-d14	12.57	244	279552	25.50	ng	-0.02
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.05	70	40492	6.31	ng	# 88
25) Isophorone	7.05	82	302388	16.49	ng	# 67
49) Dimethylphthalate	9.25	163	103338	6.36	ng	97
56) 2,4-Dinitrotoluene	9.52	165	28011	7.07	ng	# 33
59) Diethylphthalate	9.95	149	31650	2.12	ng	99
70) Phenanthrene	11.01	178	234740	11.83	ng	98
71) Anthracene	11.06	178	55482	2.73	ng	98
74) Fluoranthene	12.19	202	351382	18.07	ng	97
77) Pyrene	12.42	202	283543	15.50	ng	98
80) Benzo(a)anthracene	13.60	228	151849	10.50	ng	97
82) Chrysene	13.64	228	152142	10.78	ng	97
85) Indeno(1,2,3-cd)pyrene	16.18	276	78155	6.46	ng	98
87) Benzo(b)fluoranthene	14.60	252	255511	19.45	ng	# 96
88) Benzo(k)fluoranthene	14.60	252	255511	20.41	ng	99
89) Benzo(a)pyrene	14.91	252	124530	10.36	ng	94
90) Dibenzo(a,h)anthracene	16.18	278	25029	2.54	ng	# 75
91) Benzo(a,h,i)perylene	16.54	276	69228	6.70	ng	95

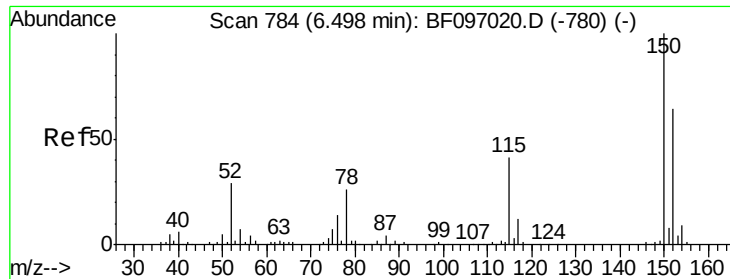
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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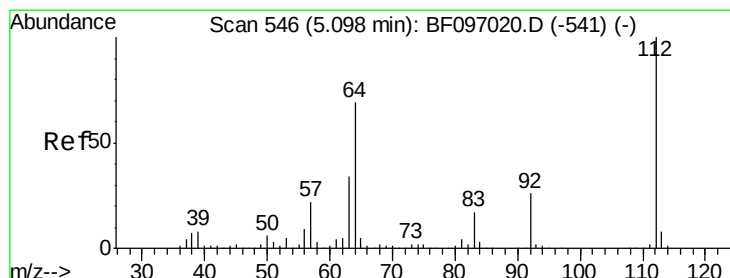
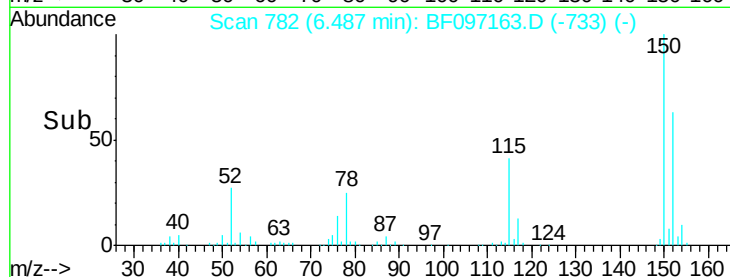
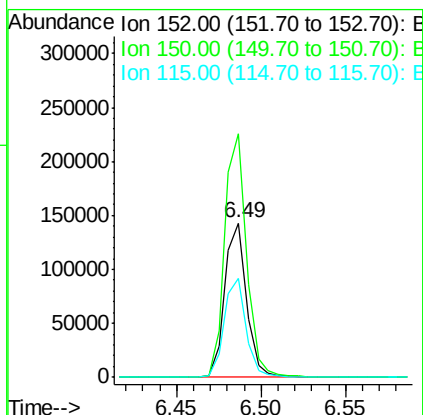
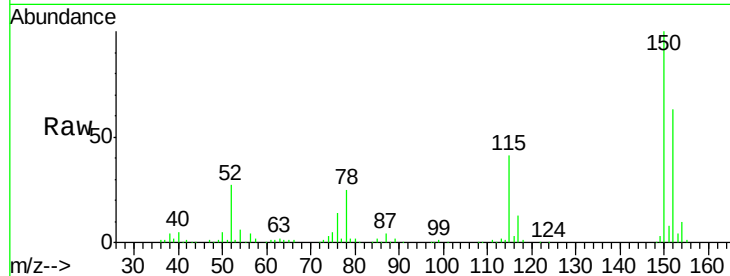


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.49 min Scan# 782
Delta R.T. -0.01 min
Lab File: BF097163.D
Acq: 28 Jul 2017 19:35

Instrument :
BNA_F
ClientSampleId :
TCM-ROW

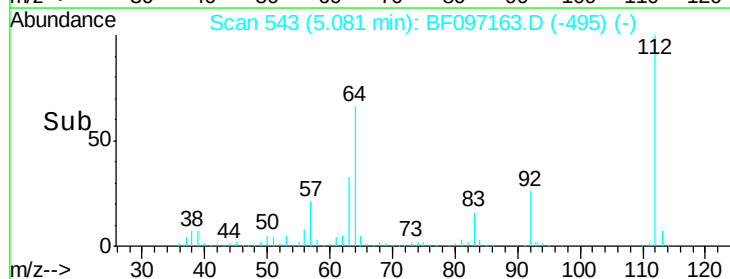
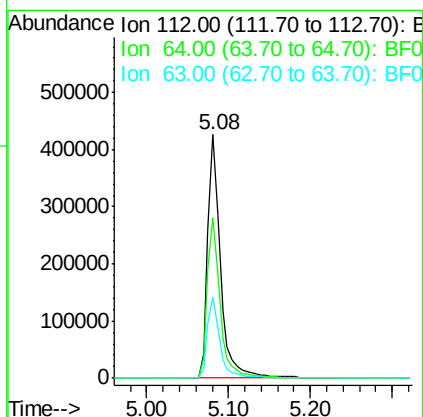
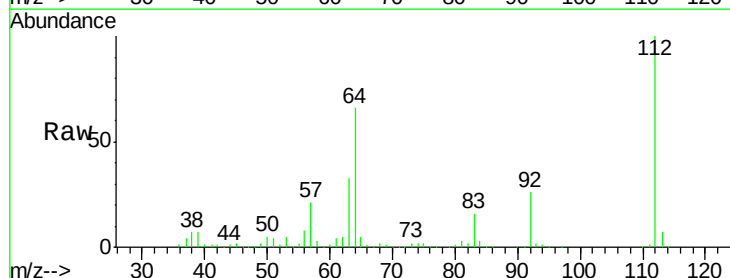
Tot Ion:152 Resp: 128714
Ion Ratio Lower Upper
152 100
150 157.6 126.2 189.2
115 63.9 52.2 78.2

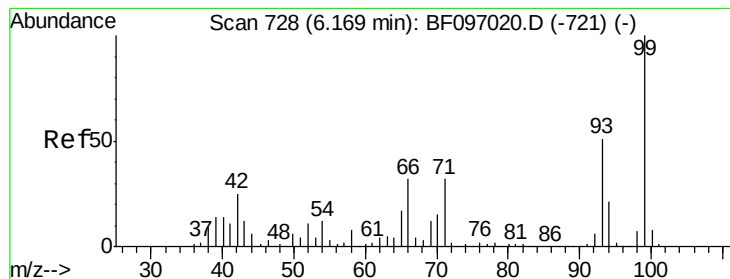


#5

2-Fluorophenol
Concen: 54.62 ng
RT: 5.08 min Scan# 543
Delta R.T. -0.02 min
Lab File: BF097163.D
Acq: 28 Jul 2017 19:35

Tgt Ion:112 Resp: 466321
Ion Ratio Lower Upper
112 100
64 66.1 46.0 69.0
63 33.4 23.4 35.0





#7

Phenol-d6

Concen: 59.47 ng

RT: 6.15 min Scan# 724

Delta R.T. -0.02 min

Lab File: BF097163.D

Acq: 28 Jul 2017 19:35

Instrument :

BNA_F

ClientSampleId :

TCM-ROW

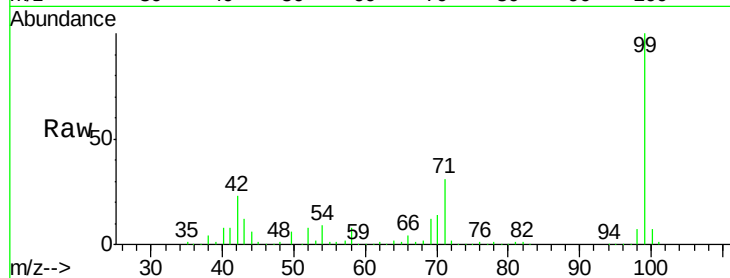
Tot Ion: 99 Resp: 579719

Ion Ratio Lower Upper

99 100

42 23.2 13.5 20.3#

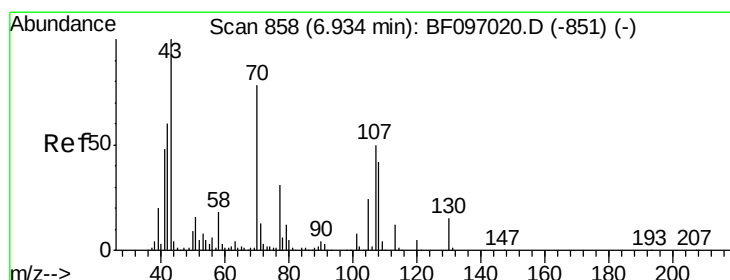
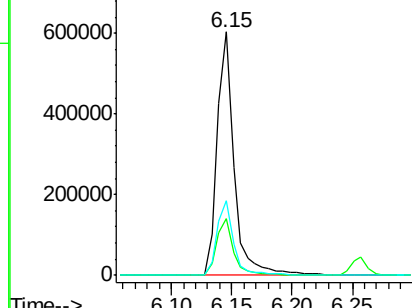
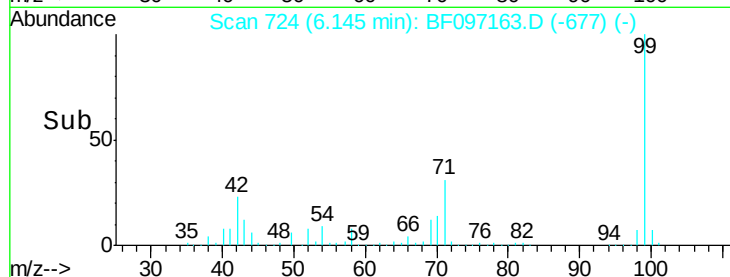
71 30.6 24.5 36.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 6.31 ng

RT: 7.05 min Scan# 878

Delta R.T. 0.12 min

Lab File: BF097163.D

Acq: 28 Jul 2017 19:35

Tgt Ion: 70 Resp: 40492

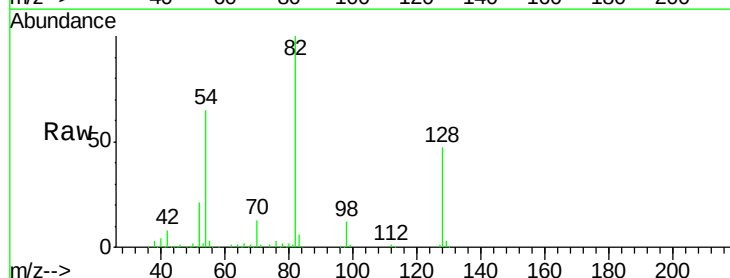
Ion Ratio Lower Upper

70 100

42 59.6 47.2 70.8

101 0.0 7.2 10.8#

130 2.6 15.9 23.9#

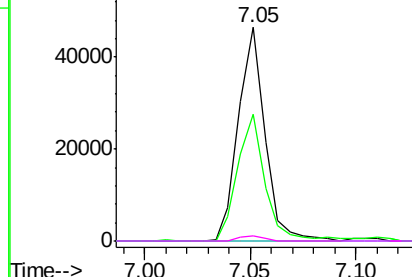
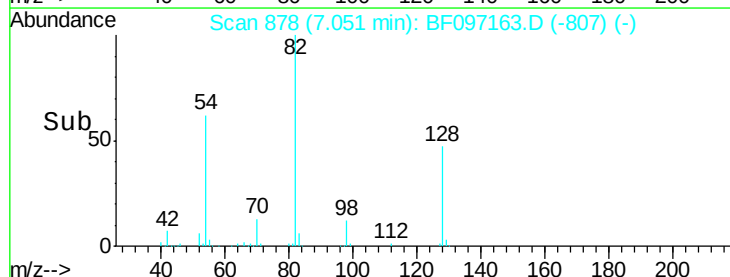


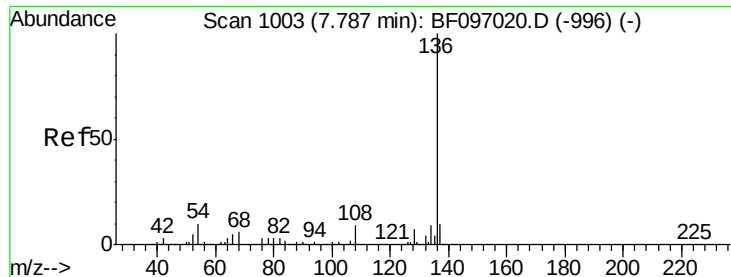
Abundance Ion 70.00 (69.70 to 70.70): BF0

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





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.77 min Scan# 1000

Delta R.T. -0.02 min

Lab File: BF097163.D

Acq: 28 Jul 2017 19:35

Instrument :

BNA_F

ClientSampleId :

TCM-ROW

Tot Ion:136 Resp: 549269

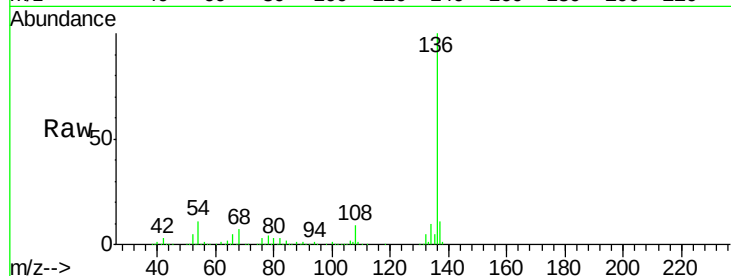
Ion Ratio Lower Upper

136 100

137 10.9 8.5 12.7

54 11.0 4.9 7.3#

68 6.5 4.1 6.1#

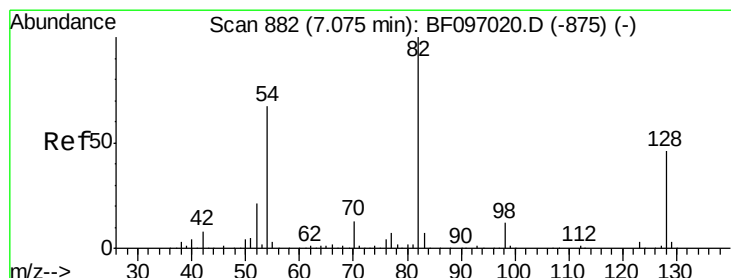
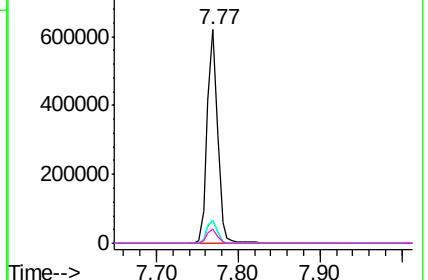
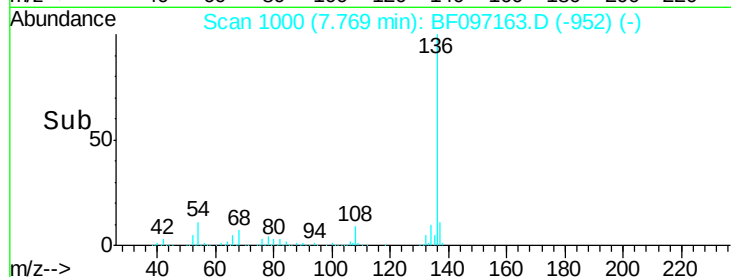


Abundance Ion 136.00 (135.70 to 136.70): E

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: 32.91 ng

RT: 7.05 min Scan# 878

Delta R.T. -0.02 min

Lab File: BF097163.D

Acq: 28 Jul 2017 19:35

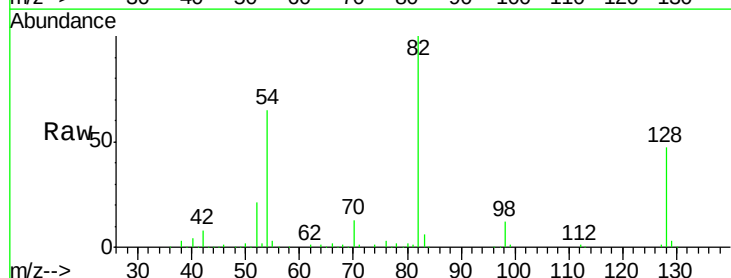
Tgt Ion: 82 Resp: 308170

Ion Ratio Lower Upper

82 100

128 46.7 34.0 51.0

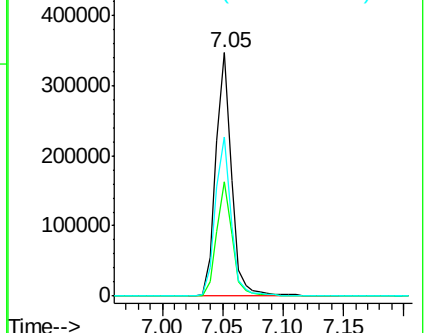
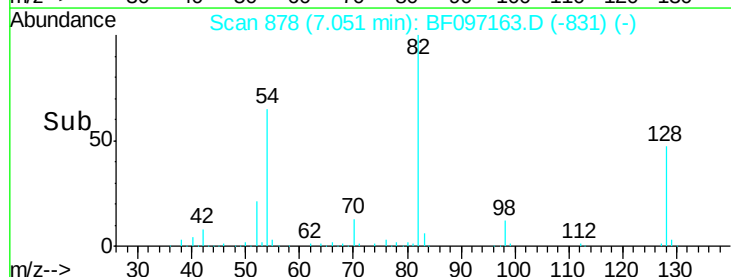
54 65.3 42.2 63.2#

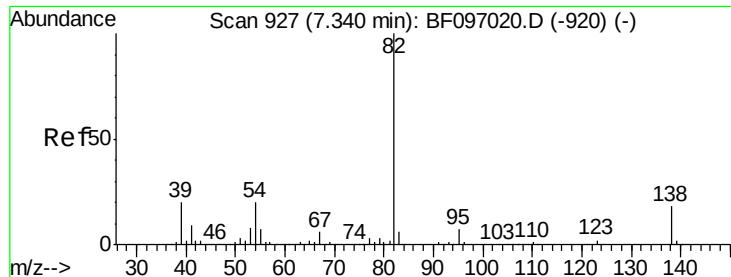


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 16.49 ng

RT: 7.05 min Scan# 878

Delta R.T. -0.29 min

Lab File: BF097163.D

Acq: 28 Jul 2017 19:35

Instrument :

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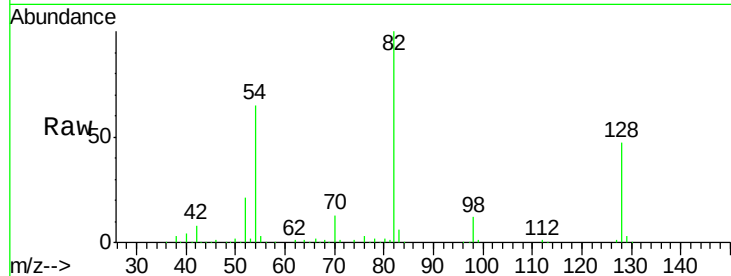
Tot Ion: 82 Resp: 302388

Ion Ratio Lower Upper

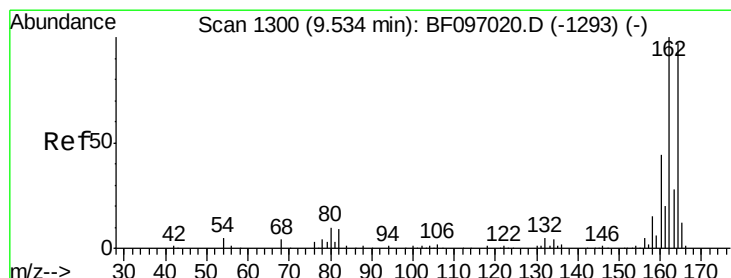
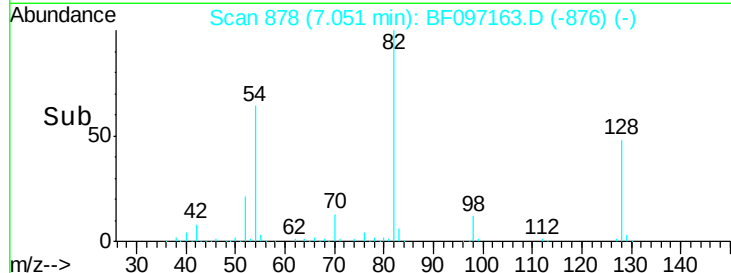
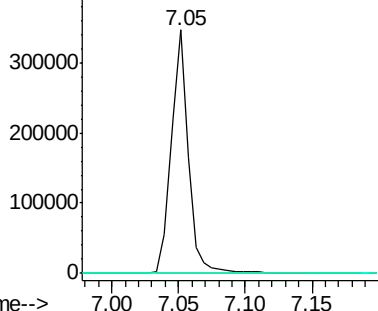
82 100

95 0.0 5.3 7.9#

138 0.0 13.1 19.7#



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 95.00 (94.70 to 95.70): BF0
Ion 138.00 (137.70 to 138.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.52 min Scan# 1297

Delta R.T. -0.02 min

Lab File: BF097163.D

Acq: 28 Jul 2017 19:35

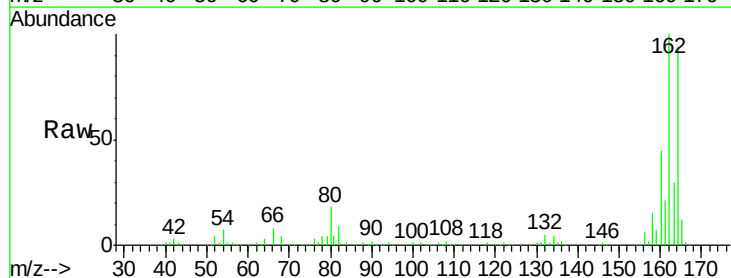
Tgt Ion: 164 Resp: 214132

Ion Ratio Lower Upper

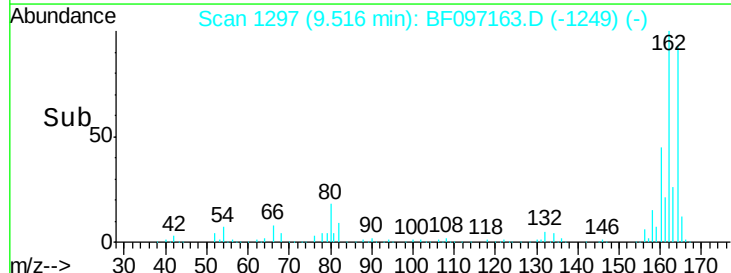
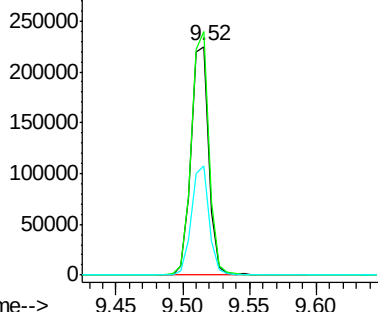
164 100

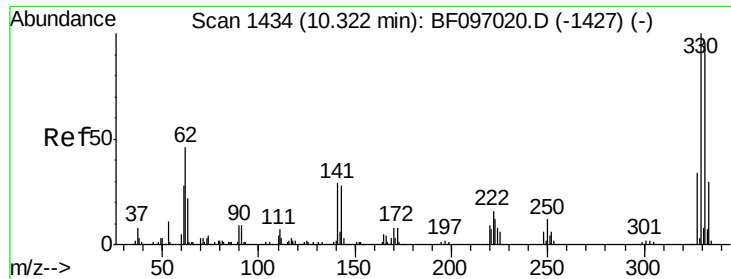
162 106.5 82.6 123.8

160 47.6 36.2 54.2



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

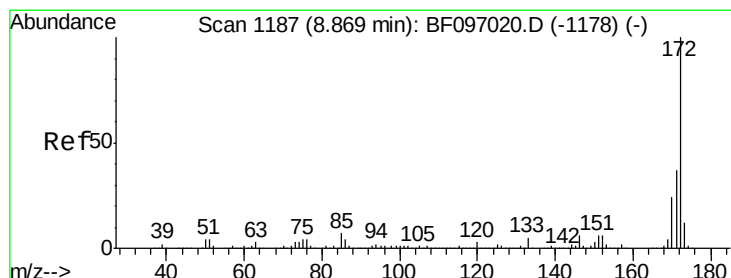
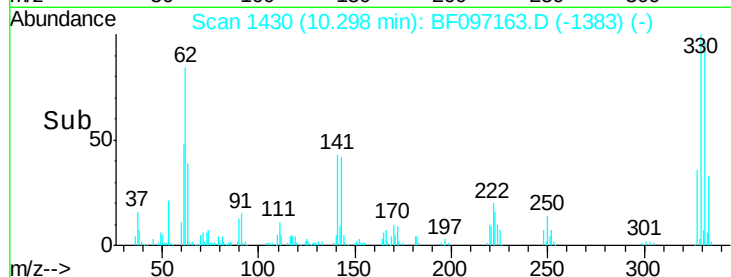
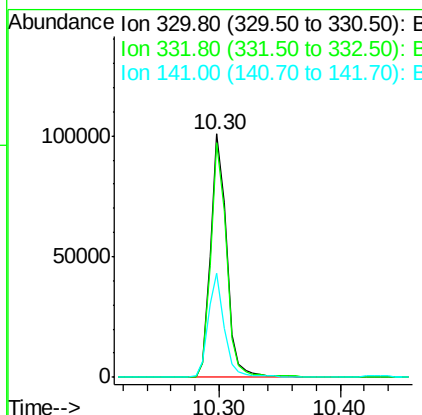
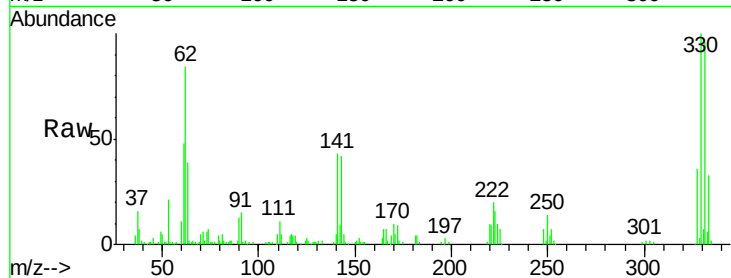




#41
 2,4,6-Tribromophenol
 Concen: 54.74 ng
 RT: 10.30 min Scan# 1430
 Delta R.T. -0.02 min
 Lab File: BF097163.D
 Acq: 28 Jul 2017 19:35

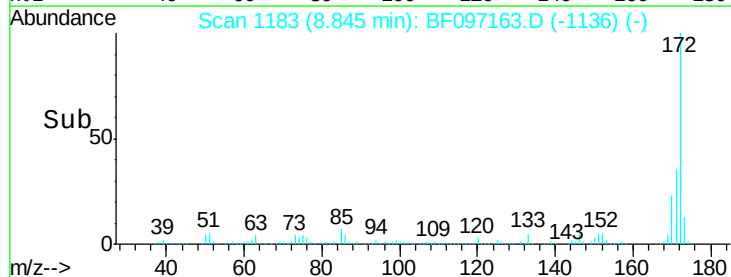
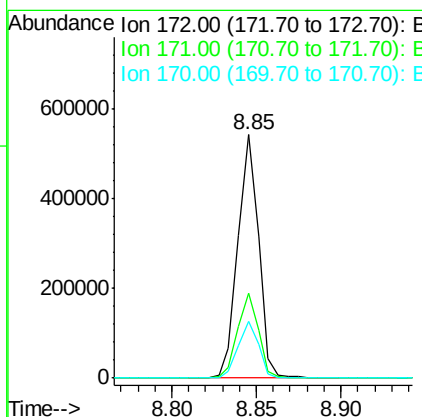
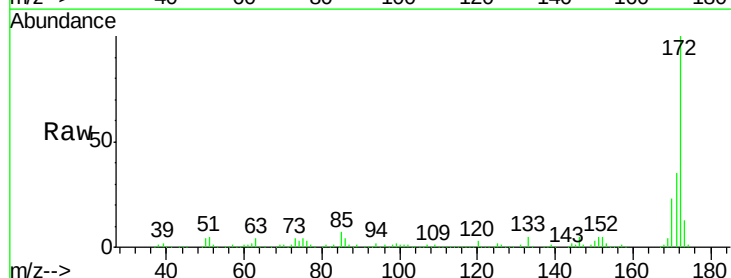
Instrument :
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 ClientSampleId :
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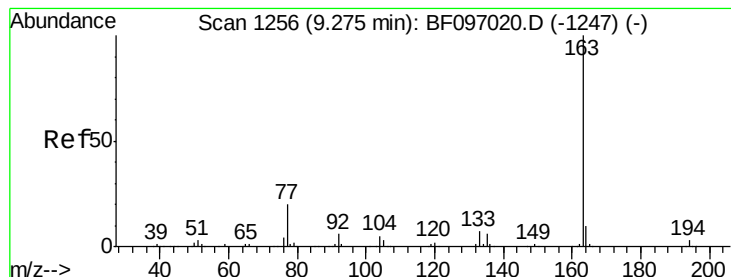
Tot Ion:330 Resp: 92612
 Ion Ratio Lower Upper
 330 100
 332 94.3 76.6 115.0
 141 43.0 31.4 47.2



#44
 2-Fluorobiphenyl
 Concen: 36.71 ng
 RT: 8.85 min Scan# 1183
 Delta R.T. -0.02 min
 Lab File: BF097163.D
 Acq: 28 Jul 2017 19:35

Tgt Ion:172 Resp: 463227
 Ion Ratio Lower Upper
 172 100
 171 34.9 29.6 44.4
 170 23.3 19.8 29.8





#49

Dimethylphthalate

Concen: 6.36 ng

RT: 9.25 min Scan# 1251

Delta R.T. -0.03 min

Lab File: BF097163.D

Acq: 28 Jul 2017 19:35

Instrument :

BNA_F

ClientSampleId :

TCM-ROW

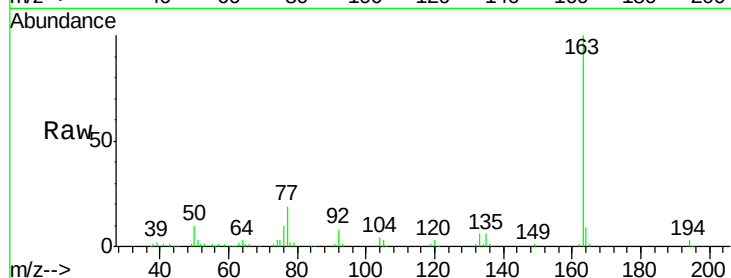
Tot Ion:163 Resp: 103338

Ion Ratio Lower Upper

163 100

194 3.4 2.6 4.0

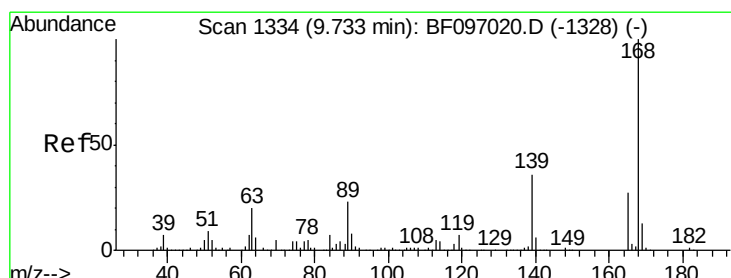
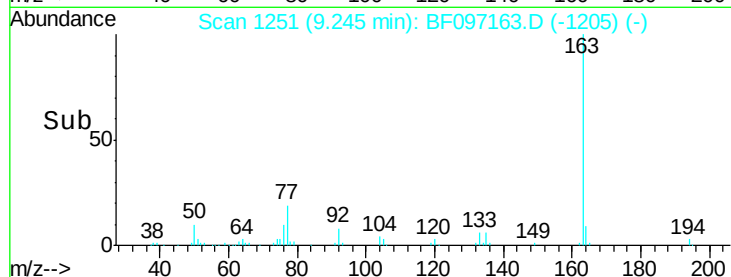
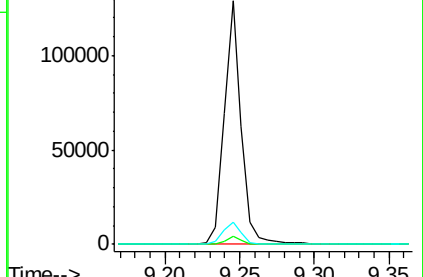
164 9.3 8.4 12.6



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

2,4-Dinitrotoluene

Concen: 7.07 ng

RT: 9.52 min Scan# 1297

Delta R.T. -0.22 min

Lab File: BF097163.D

Acq: 28 Jul 2017 19:35

Tgt Ion:165 Resp: 28011

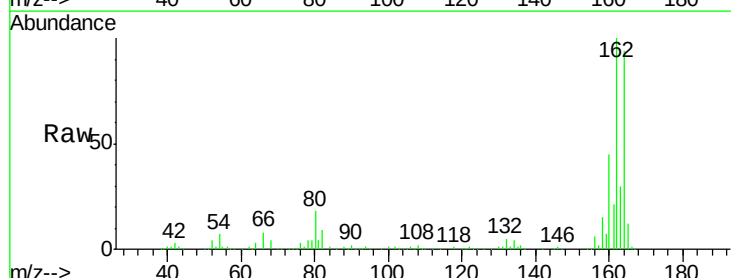
Ion Ratio Lower Upper

165 100

63 1.9 25.4 38.0#

89 1.5 46.4 69.6#

182 0.0 1.8 2.6#

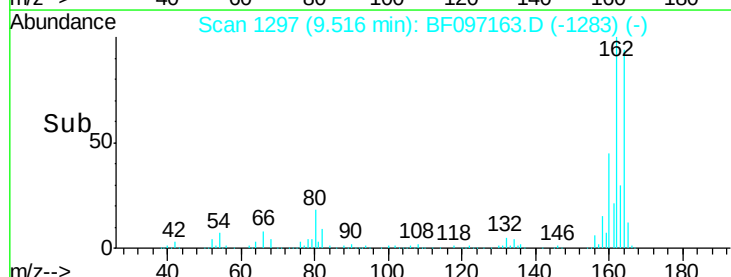
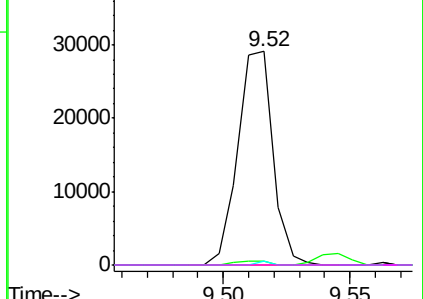


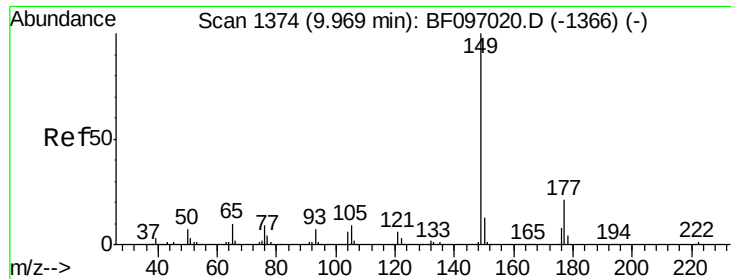
Abundance Ion 165.00 (164.70 to 165.70): E

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

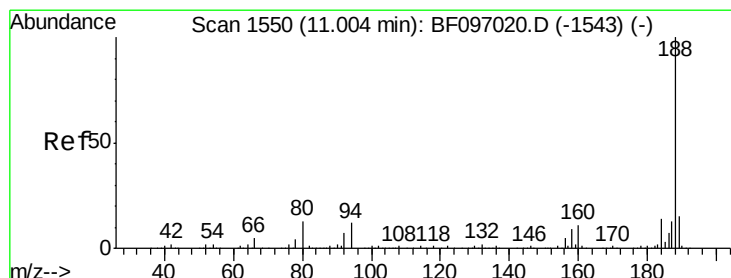
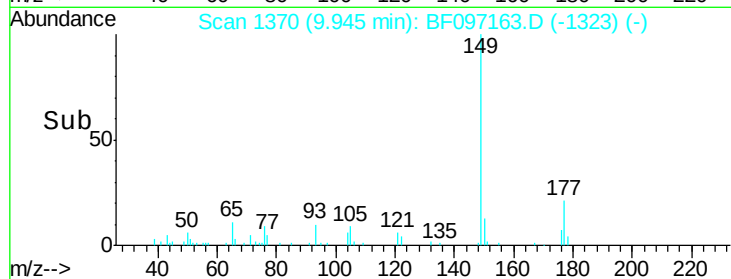
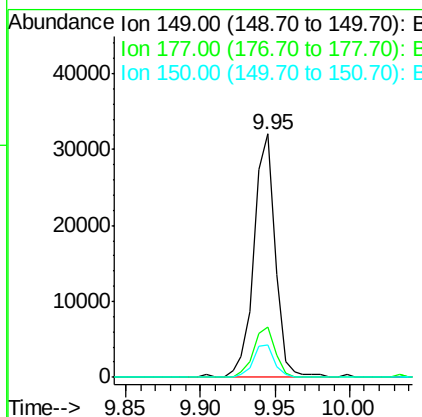
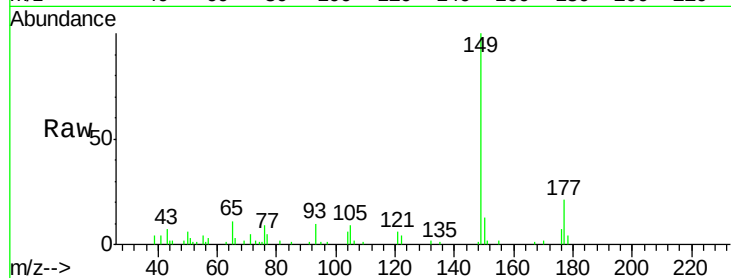




#59
Diethylphthalate
Concen: 2.12 ng
RT: 9.95 min Scan# 1370
Delta R.T. -0.02 min
Lab File: BF097163.D
Acq: 28 Jul 2017 19:35

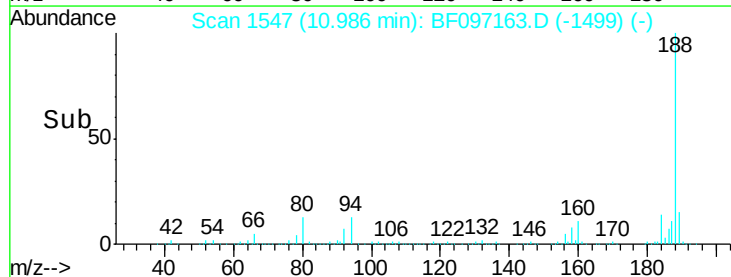
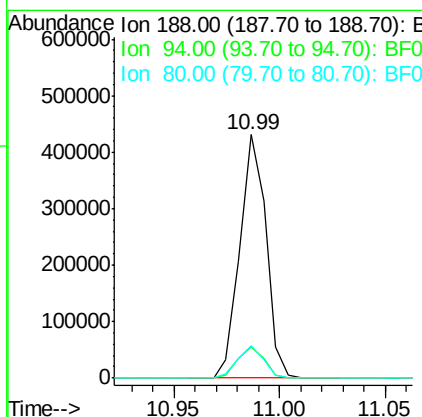
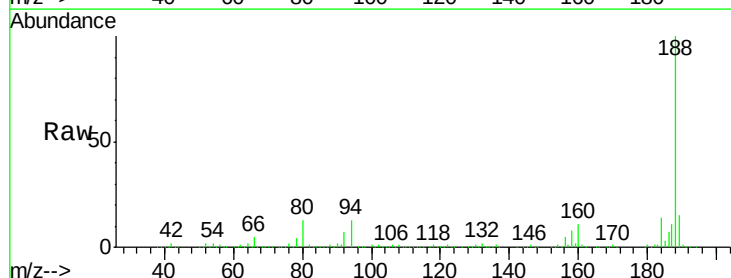
Instrument :
BNA_F
ClientSampleId :
TCM-ROW

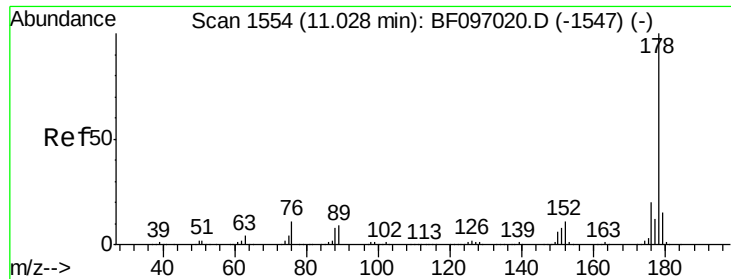
Tot Ion:149 Resp: 31650
Ion Ratio Lower Upper
149 100
177 20.7 16.7 25.1
150 13.4 10.2 15.2



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 10.99 min Scan# 1547
Delta R.T. -0.02 min
Lab File: BF097163.D
Acq: 28 Jul 2017 19:35

Tgt Ion:188 Resp: 370407
Ion Ratio Lower Upper
188 100
94 12.6 9.4 14.2
80 13.4 10.2 15.2





#70

Phenanthrene

Concen: 11.83 ng

RT: 11.01 min Scan# 1551

Delta R.T. -0.02 min

Lab File: BF097163.D

Acq: 28 Jul 2017 19:35

Instrument :

BNA_F

ClientSampleId :

TCM-ROW

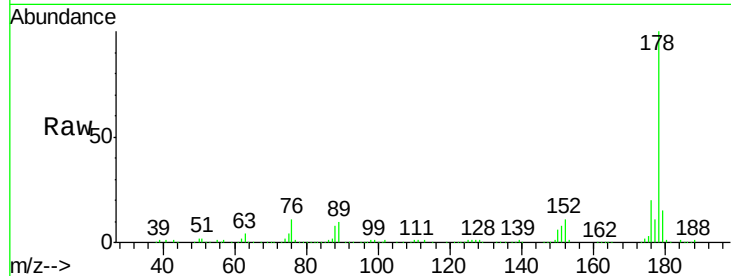
Tot Ion:178 Resp: 234740

Ion Ratio Lower Upper

178 100

176 19.6 16.2 24.4

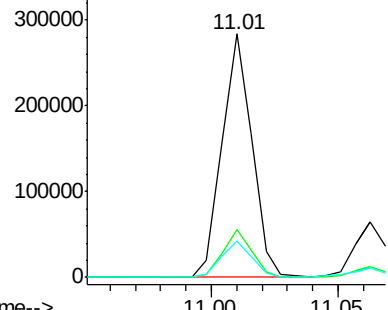
179 15.1 12.6 19.0



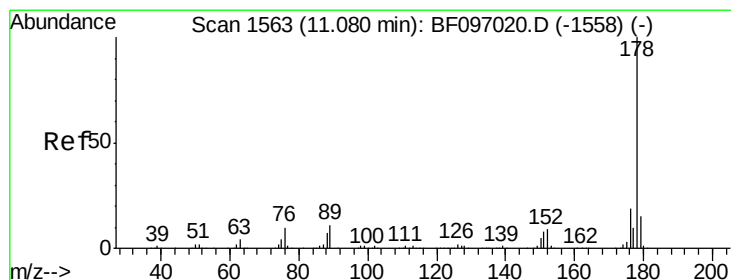
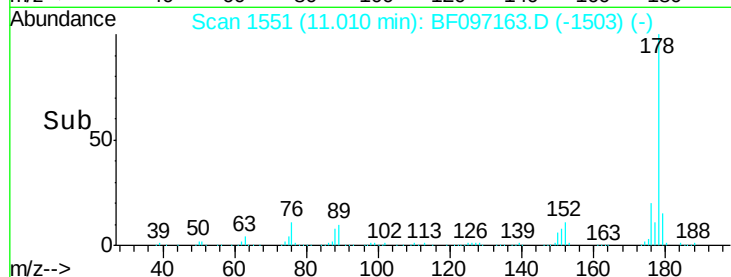
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#71

Anthracene

Concen: 2.73 ng

RT: 11.06 min Scan# 1560

Delta R.T. -0.02 min

Lab File: BF097163.D

Acq: 28 Jul 2017 19:35

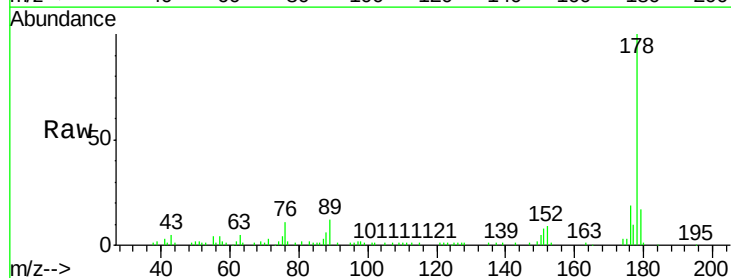
Tgt Ion:178 Resp: 55482

Ion Ratio Lower Upper

178 100

176 19.1 15.8 23.8

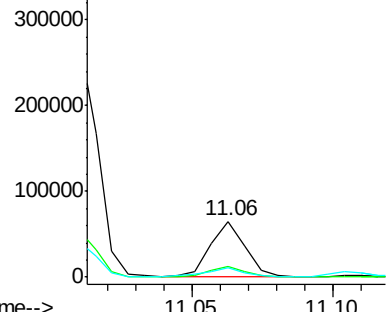
179 17.1 12.7 19.1



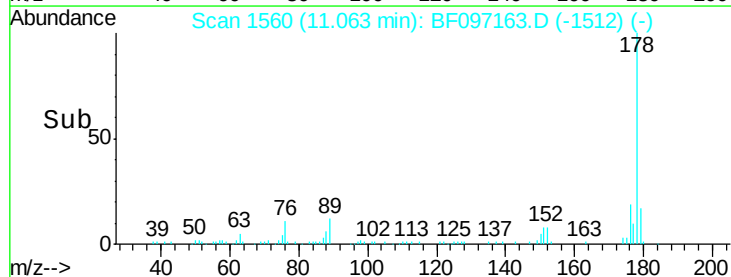
Abundance Ion 178.00 (177.70 to 178.70): E

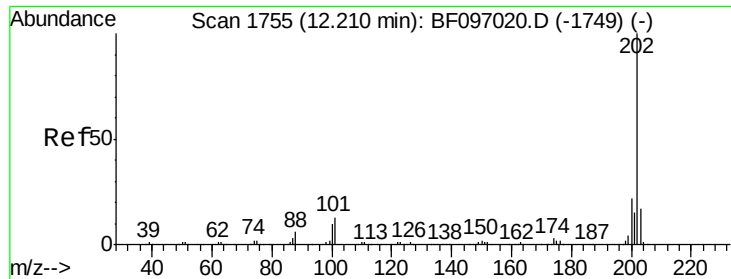
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->





#74

Fluoranthene

Concen: 18.07 ng

RT: 12.19 min Scan# 1752

Delta R.T. -0.02 min

Lab File: BF097163.D

Acq: 28 Jul 2017 19:35

Instrument :

BNA_F

ClientSampleId :

TCM-ROW

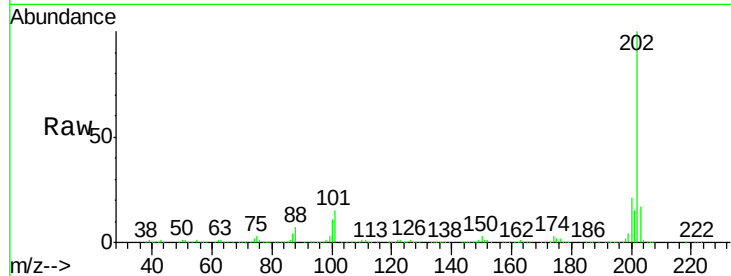
Tot Ion:202 Resp: 351382

Ion Ratio Lower Upper

202 100

101 15.5 0.0 33.2

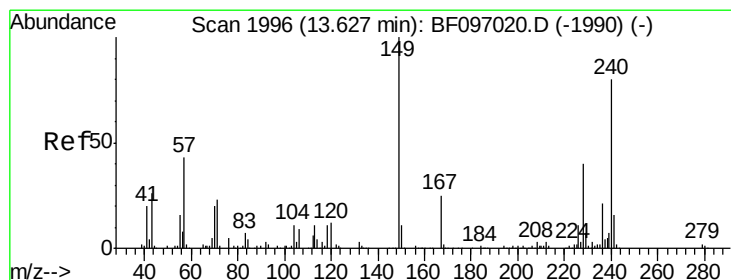
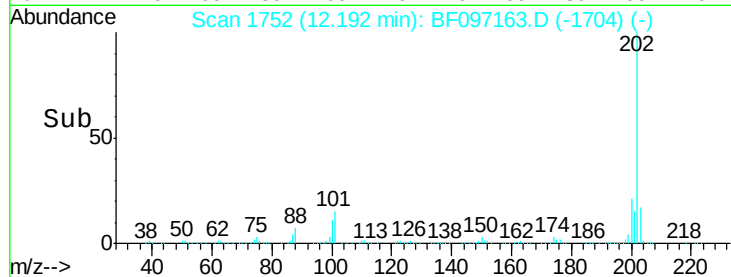
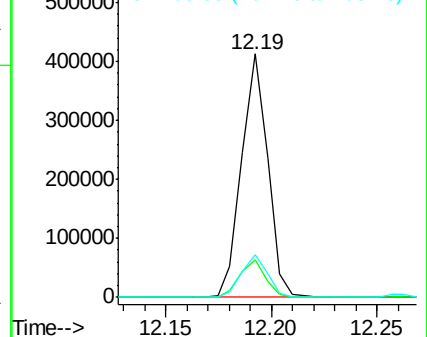
203 17.4 0.0 38.1



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: 13.61 min Scan# 1993

Delta R.T. -0.02 min

Lab File: BF097163.D

Acq: 28 Jul 2017 19:35

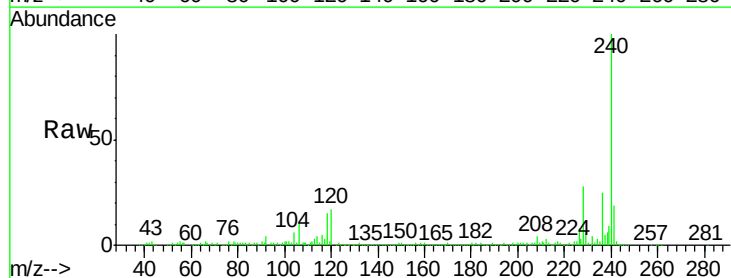
Tgt Ion:240 Resp: 223481

Ion Ratio Lower Upper

240 100

120 17.2 5.8 8.8#

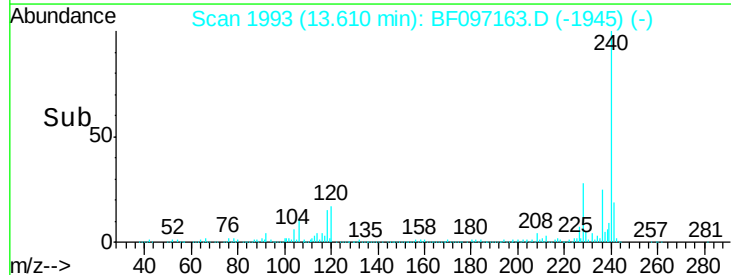
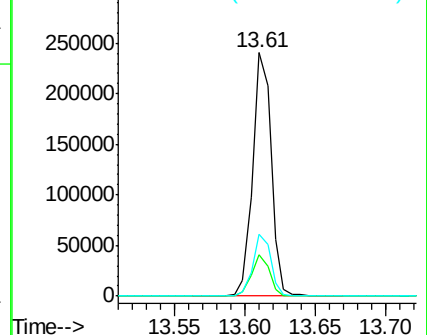
236 25.4 20.5 30.7

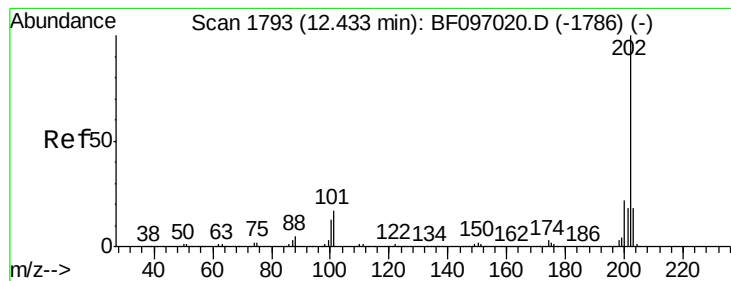


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 15.50 ng

RT: 12.42 min Scan# 1790

Delta R.T. -0.02 min

Lab File: BF097163.D

Acq: 28 Jul 2017 19:35

Instrument :

BNA_F

ClientSampleId :

TCM-ROW

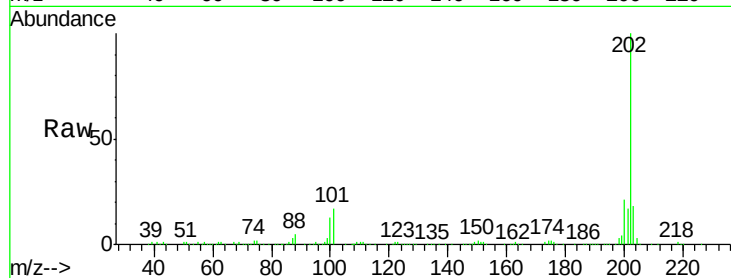
Tot Ion:202 Resp: 283543

Ion Ratio Lower Upper

202 100

200 20.6 17.6 26.4

203 17.8 14.4 21.6



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

12.42

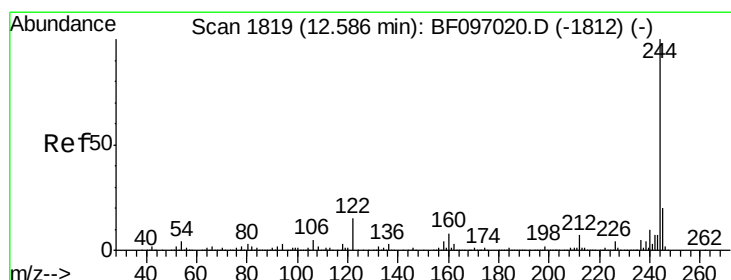
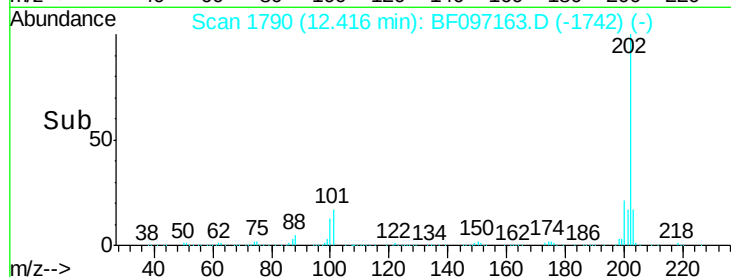
300000

200000

100000

0

Time--> 12.35 12.40 12.45



#78

Terphenyl-d14

Concen: 25.50 ng

RT: 12.57 min Scan# 1816

Delta R.T. -0.02 min

Lab File: BF097163.D

Acq: 28 Jul 2017 19:35

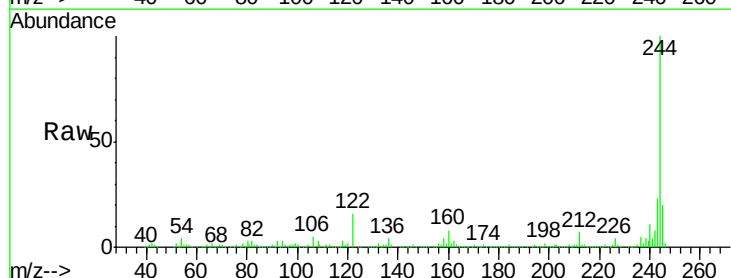
Tgt Ion:244 Resp: 279552

Ion Ratio Lower Upper

244 100

212 6.8 6.0 9.0

122 16.5 10.3 15.5#



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

12.57

400000

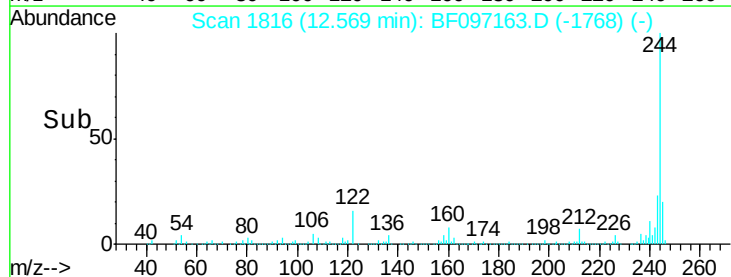
300000

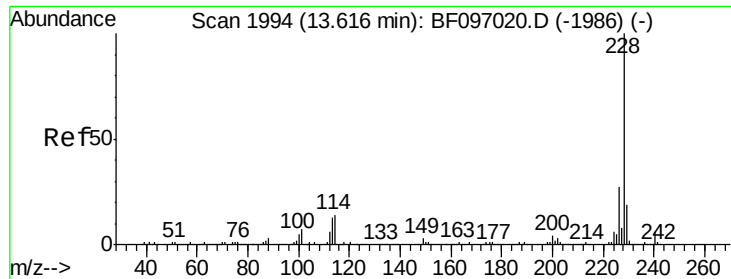
200000

100000

0

Time--> 12.50 12.55 12.60 12.65





#80

Benzo(a)anthracene

Concen: 10.50 ng

RT: 13.60 min Scan# 1992

Delta R.T. -0.01 min

Lab File: BF097163.D

Acq: 28 Jul 2017 19:35

Instrument :

BNA_F

ClientSampleId :

TCM-ROW

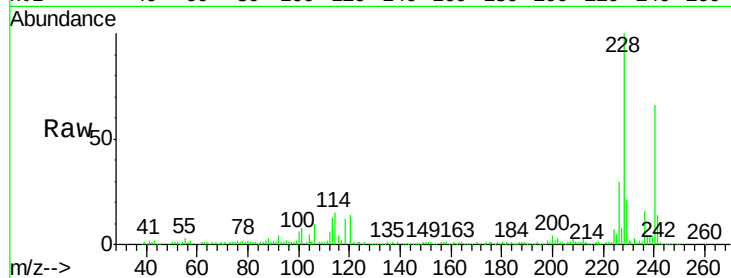
Tot Ion:228 Resp: 151849

Ion Ratio Lower Upper

228 100

226 30.1 22.6 33.8

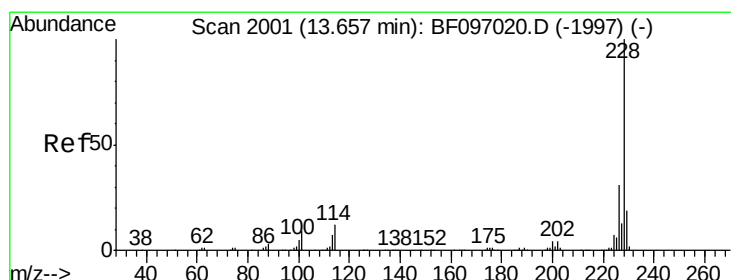
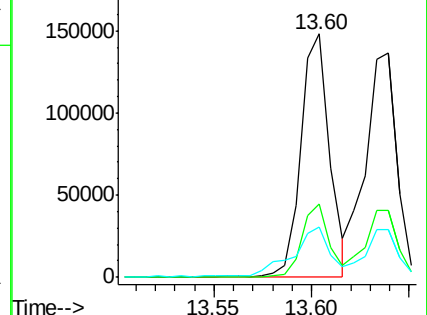
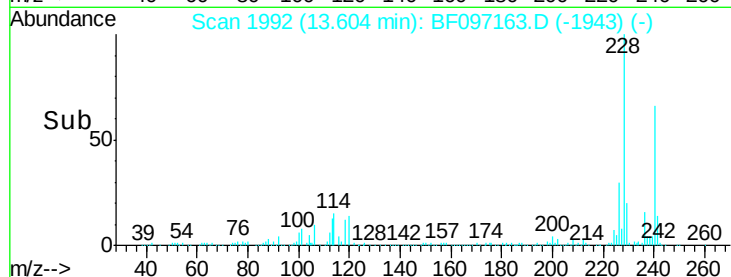
229 20.9 16.3 24.5



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



#82

Chrysene

Concen: 10.78 ng

RT: 13.64 min Scan# 1998

Delta R.T. -0.02 min

Lab File: BF097163.D

Acq: 28 Jul 2017 19:35

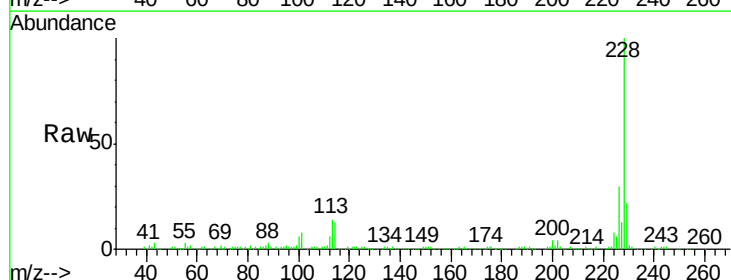
Tgt Ion:228 Resp: 152142

Ion Ratio Lower Upper

228 100

226 30.0 24.9 37.3

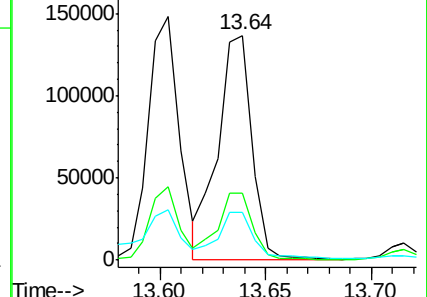
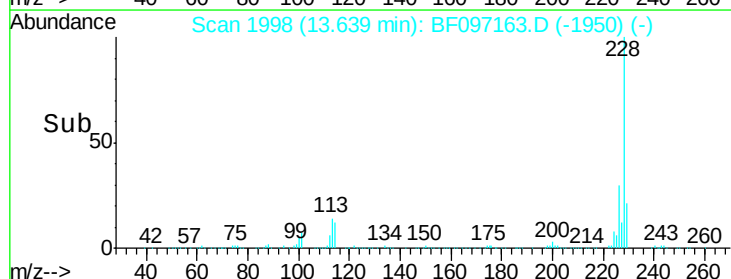
229 21.5 15.8 23.6

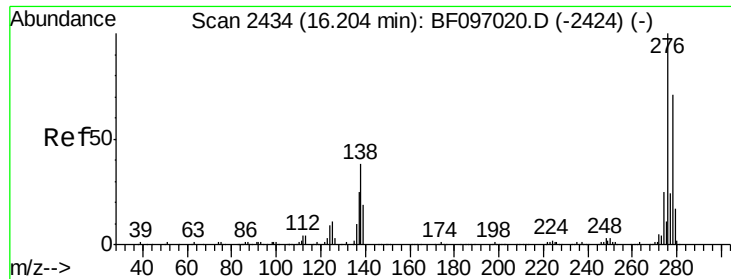


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

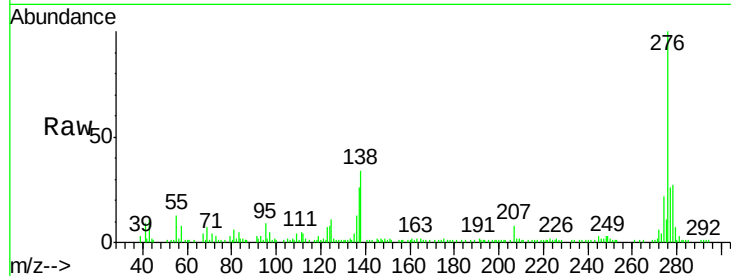




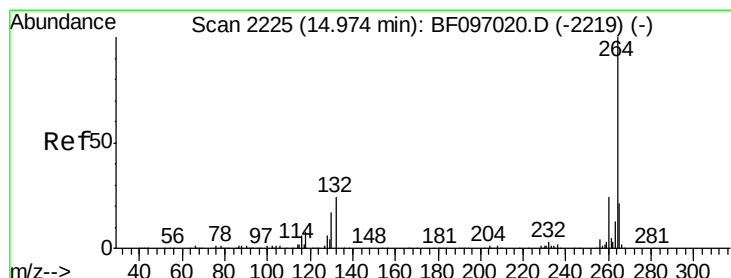
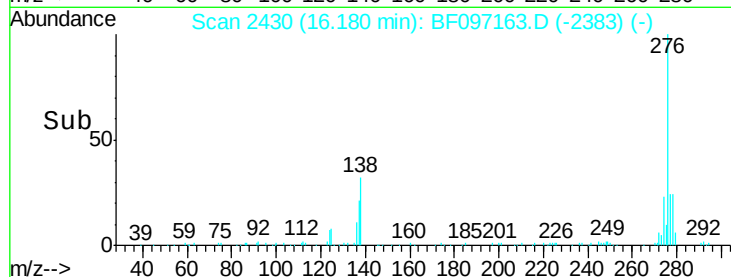
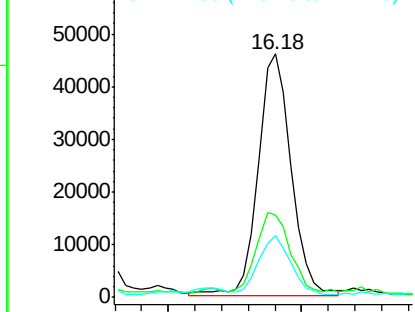
#85
Indeno(1,2,3-cd)pyrene
Concen: 6.46 ng
RT: 16.18 min Scan# 2430
Delta R.T. -0.02 min
Lab File: BF097163.D
Acq: 28 Jul 2017 19:35

Instrument :
BNA_F
ClientSampleId :
TCM-ROW

Tot Ion:276 Resp: 78155
Ion Ratio Lower Upper
276 100
138 34.3 27.8 41.6
277 23.8 20.2 30.4

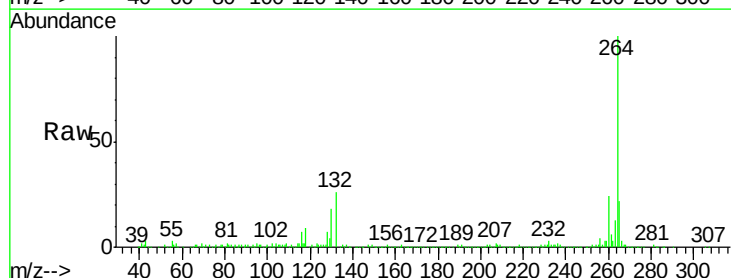


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

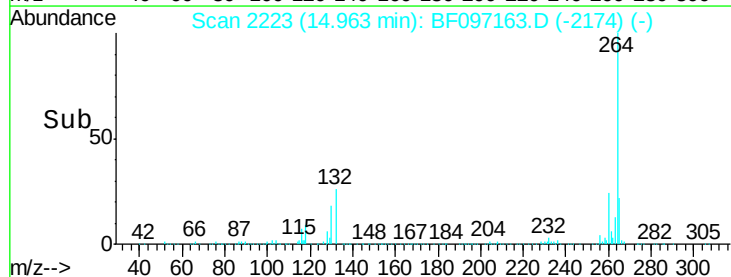
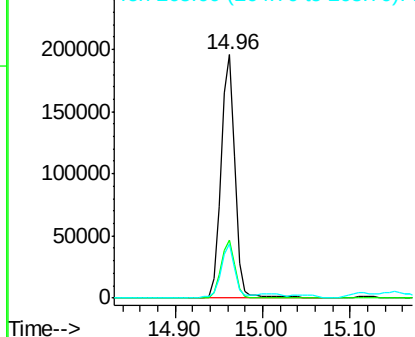


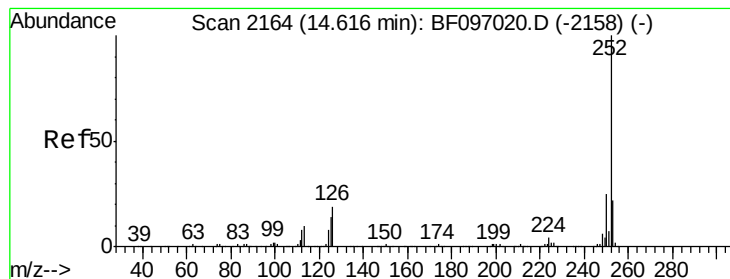
#86
Perylene-d12
Concen: 20.00 ng
RT: 14.96 min Scan# 2223
Delta R.T. -0.01 min
Lab File: BF097163.D
Acq: 28 Jul 2017 19:35

Tgt Ion:264 Resp: 218500
Ion Ratio Lower Upper
264 100
260 24.1 19.5 29.3
265 22.2 17.2 25.8



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: 19.45 ng

RT: 14.60 min Scan# 2162

Delta R.T. -0.01 min

Lab File: BF097163.D

Acq: 28 Jul 2017 19:35

Instrument :

BNA_F

ClientSampleId :

TCM-ROW

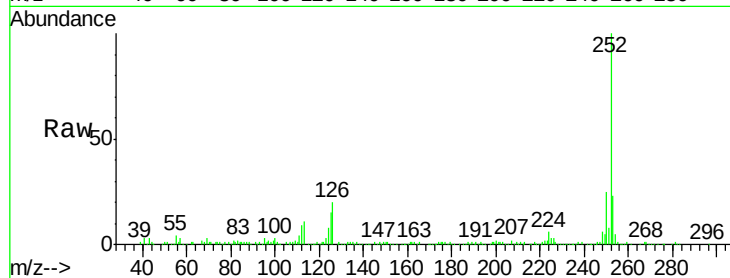
Tot Ion:252 Resp: 255511

Ion Ratio Lower Upper

252 100

253 23.1 18.1 27.1

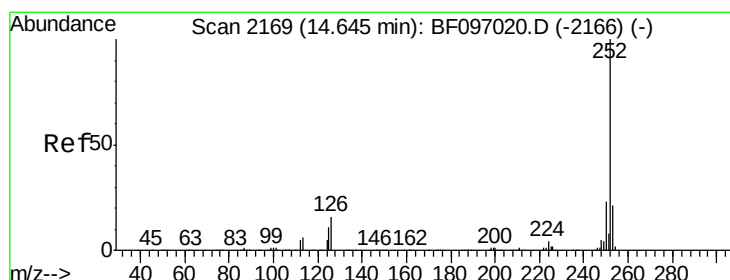
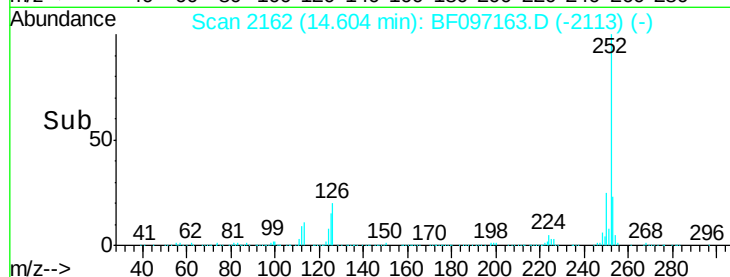
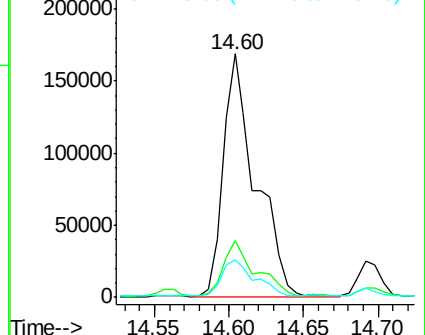
125 15.4 9.8 14.8#



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



#88

Benzo(k)fluoranthene

Concen: 20.41 ng

RT: 14.60 min Scan# 2162

Delta R.T. -0.04 min

Lab File: BF097163.D

Acq: 28 Jul 2017 19:35

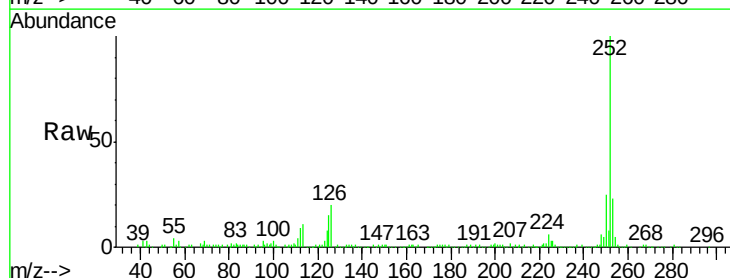
Tgt Ion:252 Resp: 255511

Ion Ratio Lower Upper

252 100

253 23.1 18.4 27.6

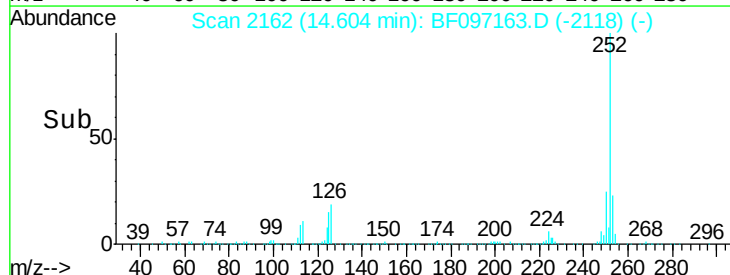
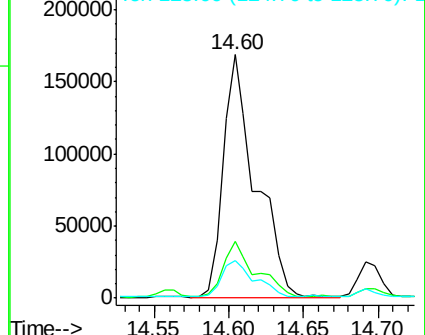
125 15.4 13.1 19.7

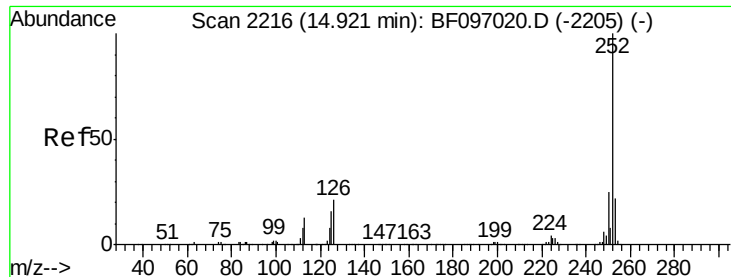


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

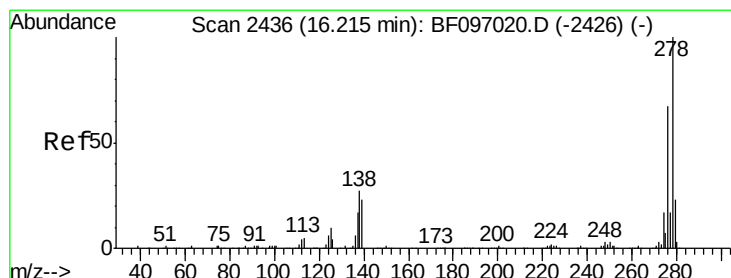
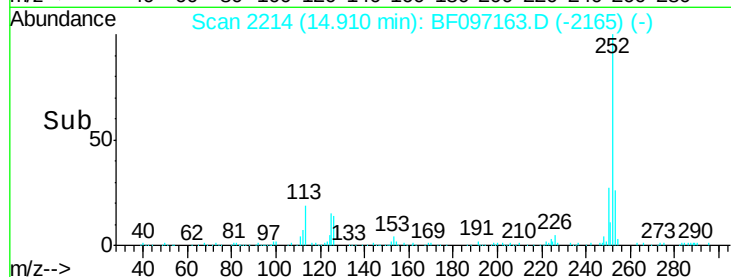
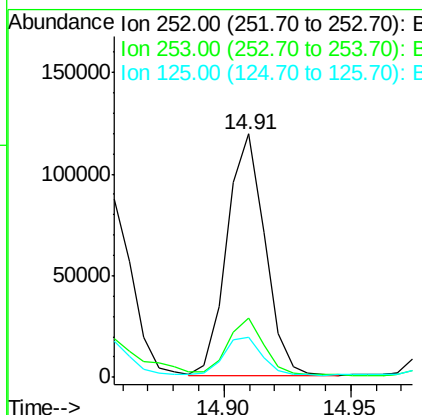
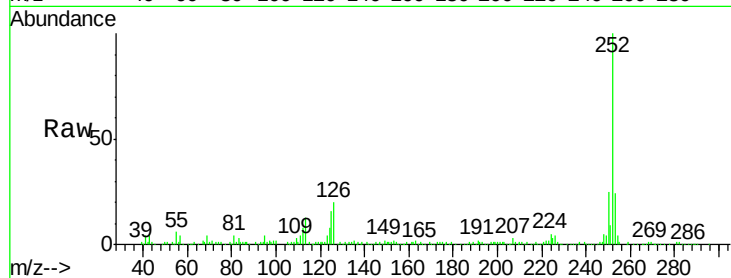




#89
Benzo(a)pyrene
Concen: 10.36 ng
RT: 14.91 min Scan# 2214
Delta R.T. -0.01 min
Lab File: BF097163.D
Acq: 28 Jul 2017 19:35

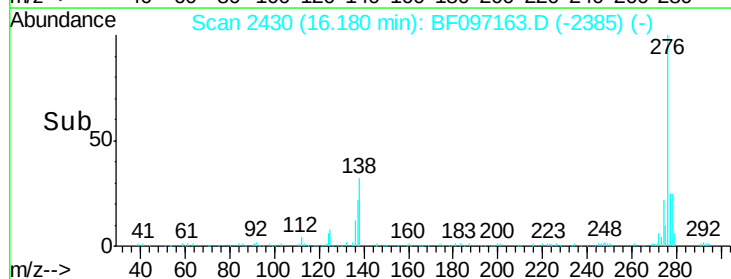
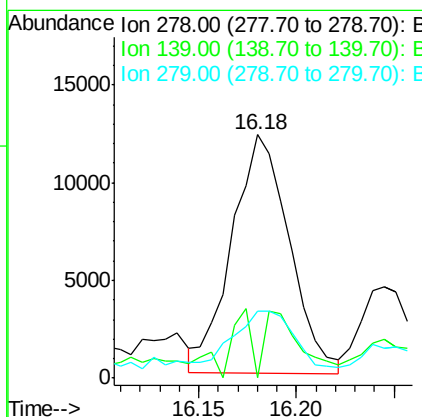
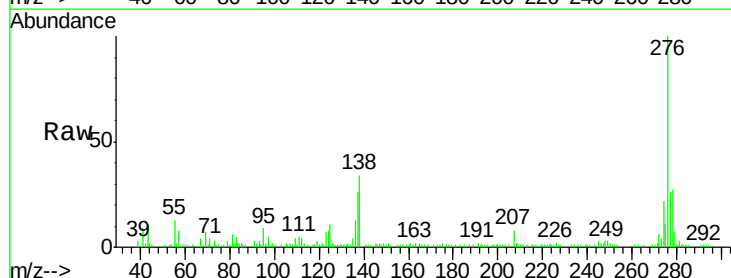
Instrument :
BNA_F
ClientSampleId :
TCM-ROW

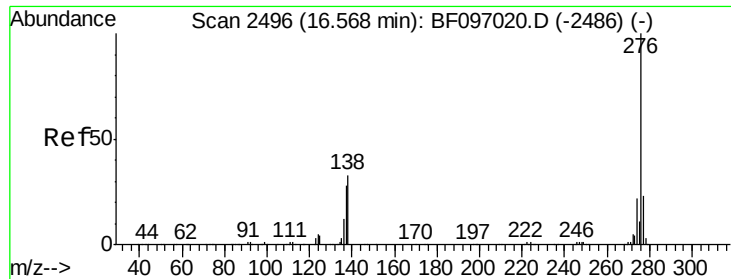
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.5	26.3
125	16.4	11.0	16.4



#90
Dibenzo(a,h)anthracene
Concen: 2.54 ng
RT: 16.18 min Scan# 2430
Delta R.T. -0.04 min
Lab File: BF097163.D
Acq: 28 Jul 2017 19:35

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8#
279	27.7	19.3	28.9





#91
 Benzo(a,h,i)perylene
 Concen: 6.70 ng
 RT: 16.54 min Scan# 2492
 Delta R.T. -0.02 min
 Lab File: BF097163.D
 Acq: 28 Jul 2017 19:35

Instrument :
 BNA_F
 ClientSampleId :
 TCM-ROW

Tot Ion	Ion	Ratio	Lower	Upper
276	100			
277	24.1	18.6	28.0	
138	36.1	25.4	38.0	

