

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082117\
 Data File : BF097924.D
 Acq On : 22 Aug 2017 00:02
 Operator : SJ/JU
 Sample : I4875-04 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-081717-B

Quant Time: Aug 22 04:09:30 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 21 15:59:04 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.75	152	110587	20.00	ng	0.00
21) Naphthalene-d8	8.03	136	412353	20.00	ng	0.00
38) Acenaphthene-d10	9.78	164	161004	20.00	ng	0.00
63) Phenanthrene-d10	11.26	188	259880	20.00	ng	0.00
75) Chrysene-d12	13.90	240	221960	20.00	ng	0.00
86) Perylene-d12	15.32	264	146713	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.35	112	328932	45.24	ng	0.00
7) Phenol-d6	6.37	99	447284	45.28	ng	-0.01
23) Nitrobenzene-d5	7.30	82	256725	33.82	ng	-0.02
41) 2,4,6-Tribromophenol	10.57	330	52330	37.46	ng	0.00
44) 2-Fluorobiphenyl	9.10	172	384514	35.09	ng	0.00
78) Terphenyl-d14	12.85	244	254908	23.95	ng	0.00

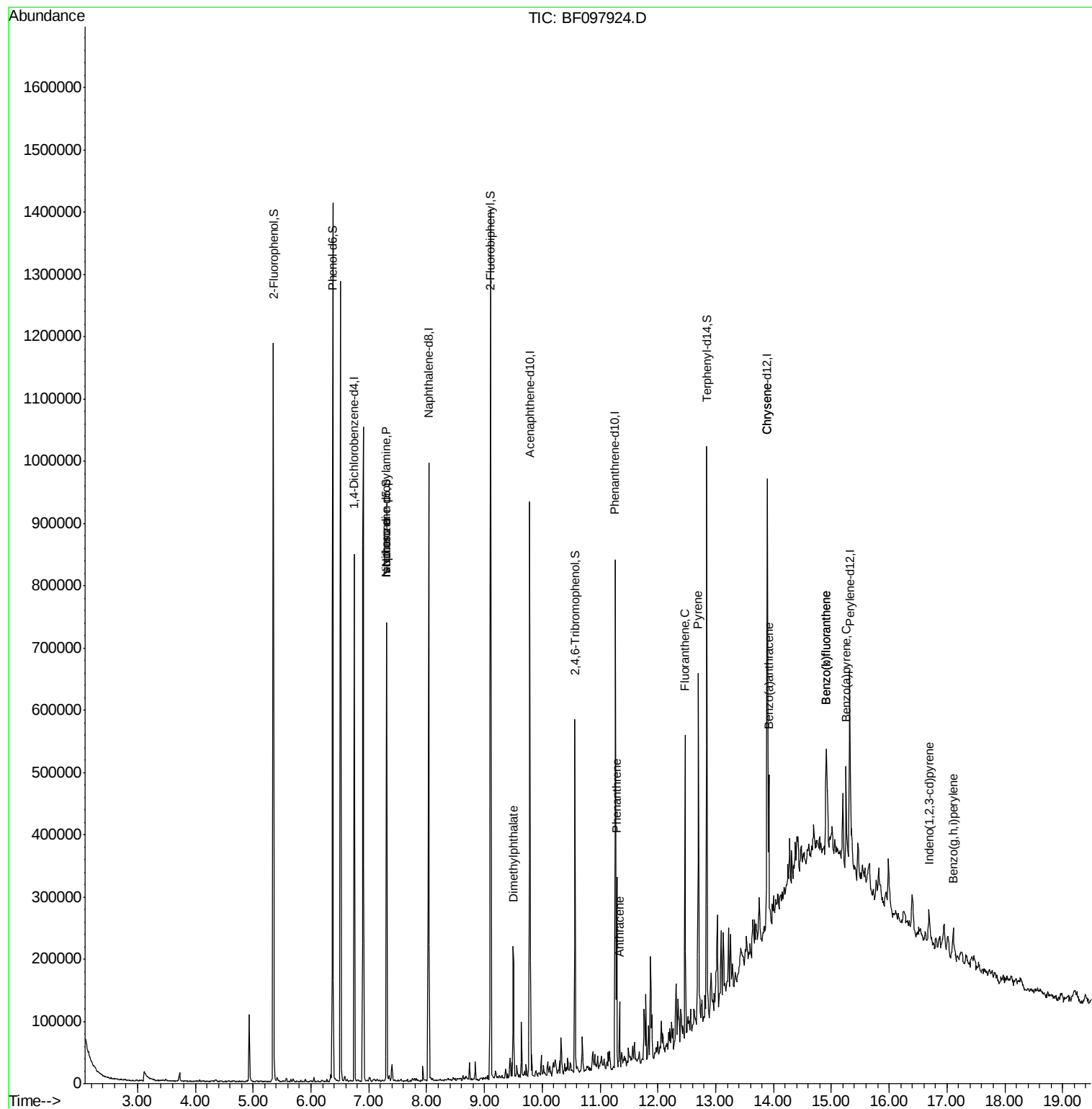
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.30	70	34797	5.15	ng	# 72
25) Isophorone	7.30	82	249213	15.79	ng	# 67
49) Dimethylphthalate	9.50	163	68559	5.83	ng	99
70) Phenanthrene	11.29	178	92878	6.71	ng	99
71) Anthracene	11.34	178	36971	2.63	ng	98
74) Fluoranthene	12.47	202	186517	12.90	ng	98
77) Pyrene	12.70	202	224633	12.37	ng	98
80) Benzo(a)anthracene	13.92	228	100627	7.56	ng	95
82) Chrysene	13.89	228	96402	7.28	ng	93
85) Indeno(1,2,3-cd)pyrene	16.69	276	35045	3.60	ng	# 89
87) Benzo(b)fluoranthene	14.91	252	120158	12.99	ng	96
88) Benzo(k)fluoranthene	14.91	252	120158	13.83	ng	97
89) Benzo(a)pyrene	15.26	252	69276	8.46	ng	95
91) Benzo(a,h,i)perylene	17.11	276	33984	4.89	ng	95

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

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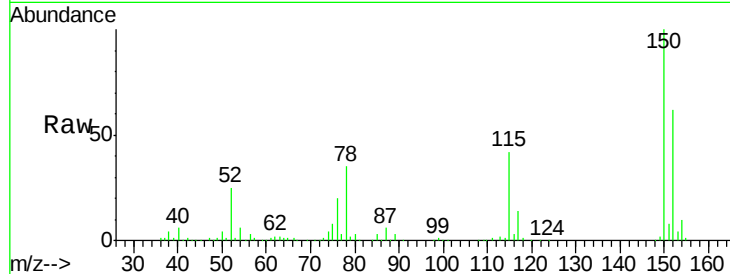


#1

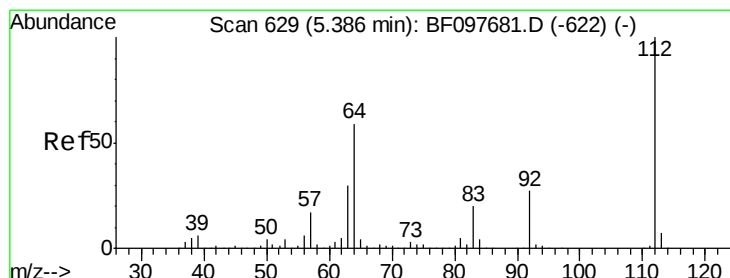
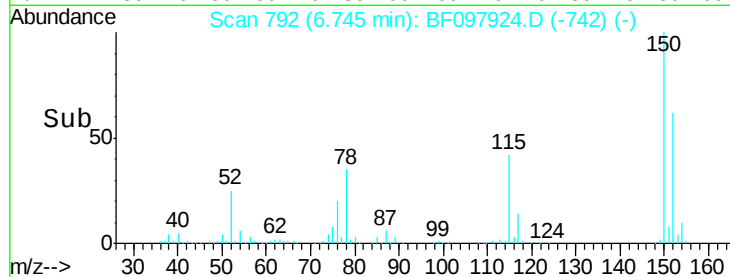
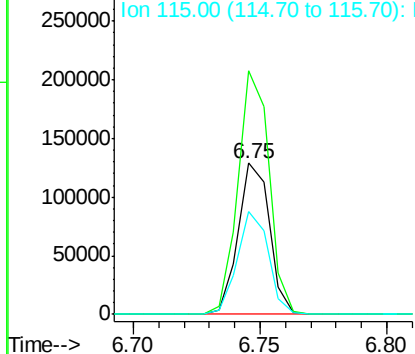
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.75 min Scan# 792
Delta R.T. -0.01 min
Lab File: BF097924.D
Acq: 22 Aug 2017 00:02

Instrument :
BNA_F
ClientSampleId :
CL-02-081717-B

Tot Ion:152 Resp: 110587
Ion Ratio Lower Upper
152 100
150 161.3 126.2 189.2
115 68.1 52.2 78.2



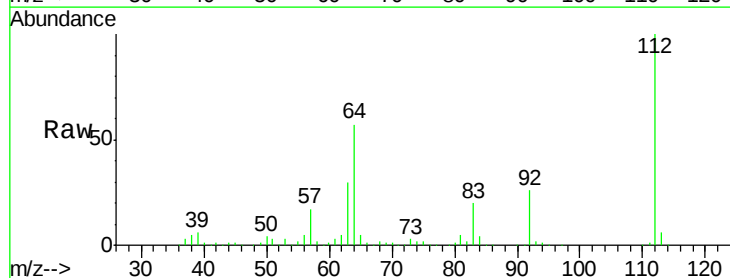
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



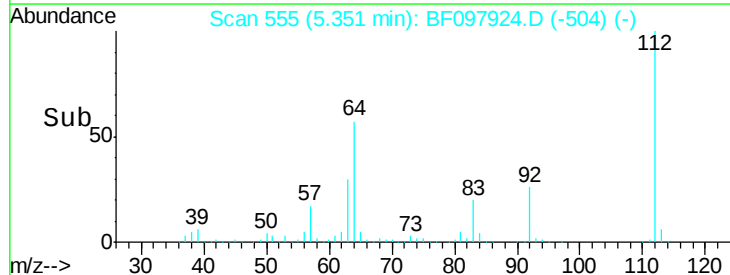
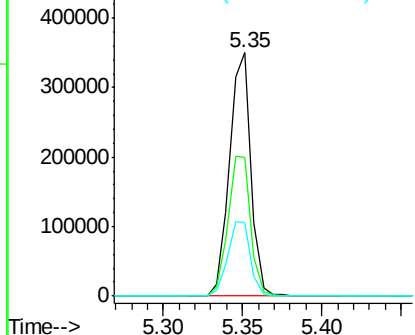
#5

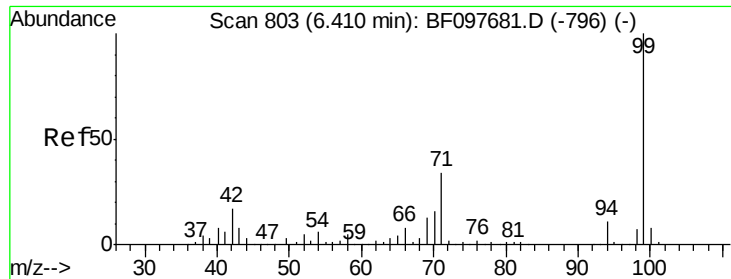
2-Fluorophenol
Concen: 45.24 ng
RT: 5.35 min Scan# 555
Delta R.T. 0.00 min
Lab File: BF097924.D
Acq: 22 Aug 2017 00:02

Tgt Ion:112 Resp: 328932
Ion Ratio Lower Upper
112 100
64 57.1 46.0 69.0
63 30.1 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 45.28 ng

RT: 6.37 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF097924.D

Acq: 22 Aug 2017 00:02

Instrument :

BNA_F

ClientSampleId :

CL-02-081717-B

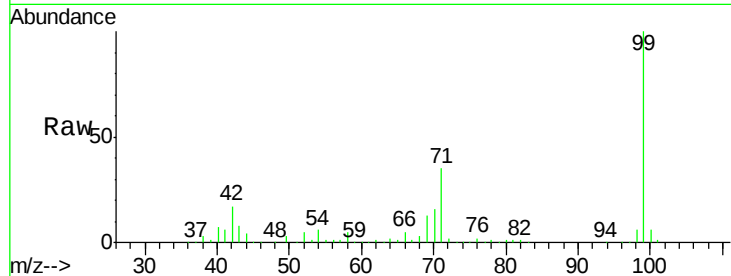
Tot Ion: 99 Resp: 447284

Ion Ratio Lower Upper

99 100

42 17.0 13.5 20.3

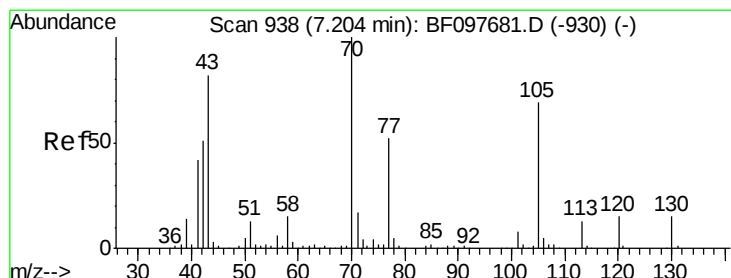
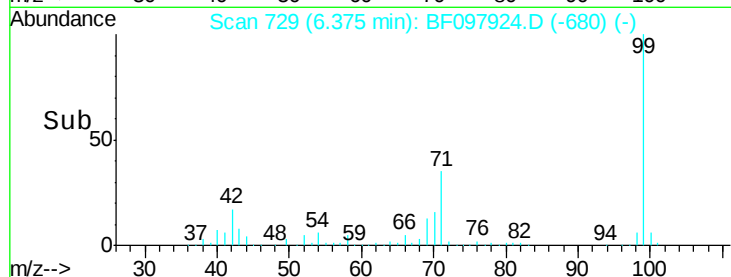
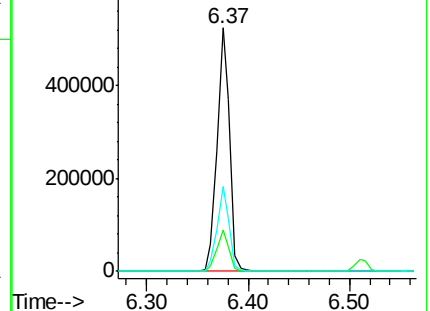
71 34.6 24.5 36.7



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: 5.15 ng

RT: 7.30 min Scan# 887

Delta R.T. 0.13 min

Lab File: BF097924.D

Acq: 22 Aug 2017 00:02

Tgt Ion: 70 Resp: 34797

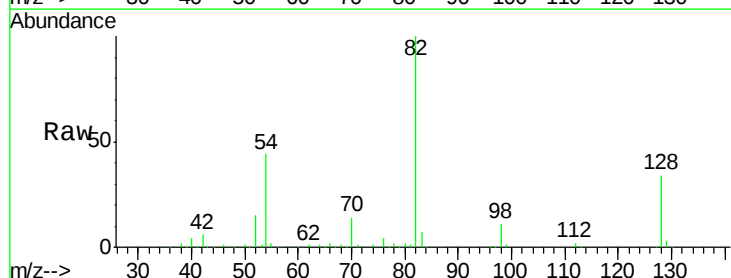
Ion Ratio Lower Upper

70 100

42 41.0 47.2 70.8#

101 0.0 7.2 10.8#

130 1.7 15.9 23.9#

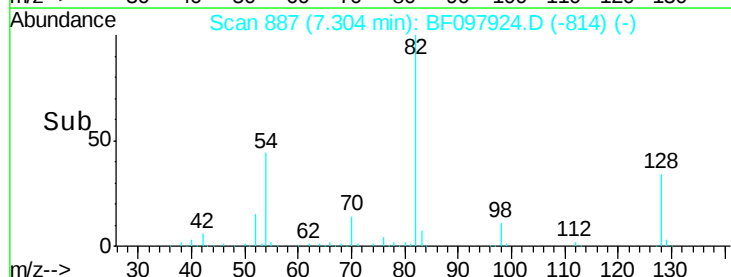
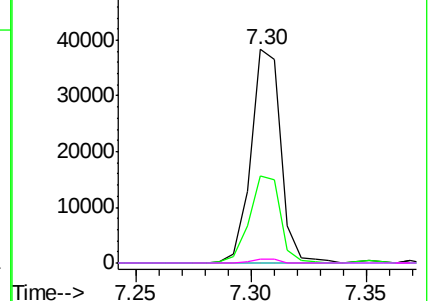


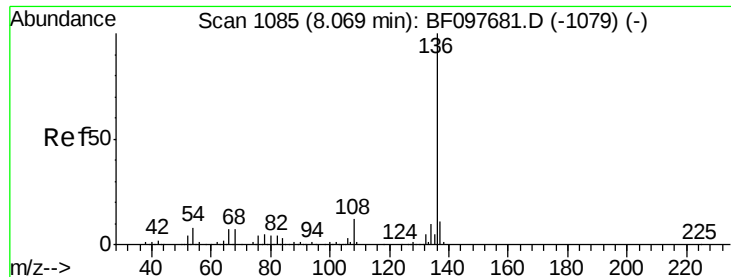
Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 8.03 min Scan# 1011

Delta R.T. 0.00 min

Lab File: BF097924.D

Acq: 22 Aug 2017 00:02

Instrument :

BNA_F

ClientSampleId :

CL-02-081717-B

Tot Ion:136 Resp: 412353

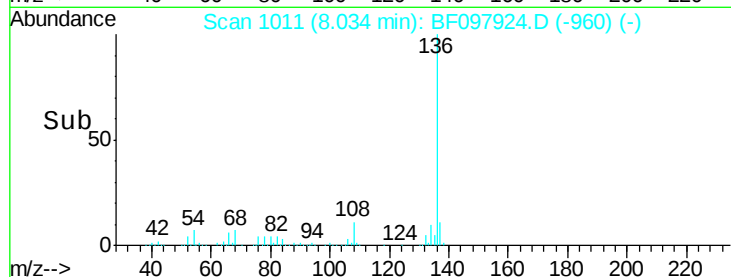
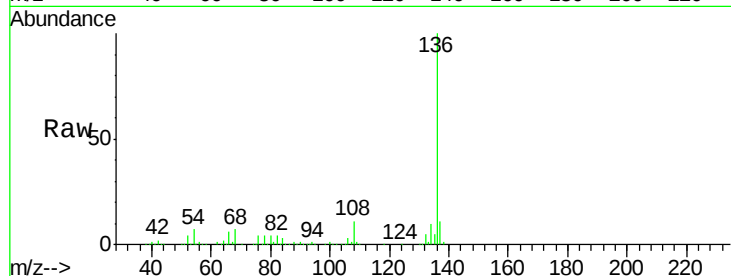
Ion Ratio Lower Upper

136 100

137 10.6 8.5 12.7

54 6.7 4.9 7.3

68 6.7 4.1 6.1#

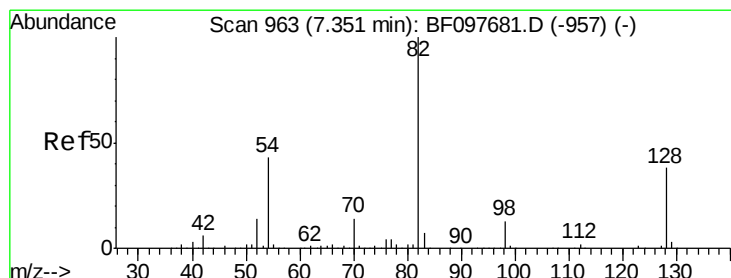
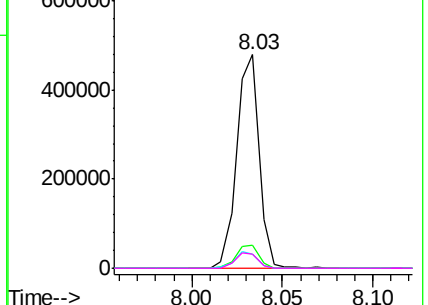


Abundance Ion 136.00 (135.70 to 136.70): E

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: 33.82 ng

RT: 7.30 min Scan# 887

Delta R.T. -0.02 min

Lab File: BF097924.D

Acq: 22 Aug 2017 00:02

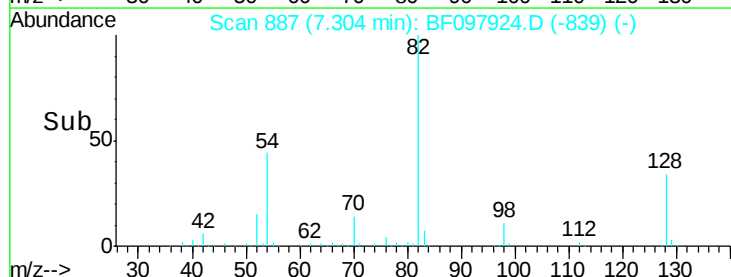
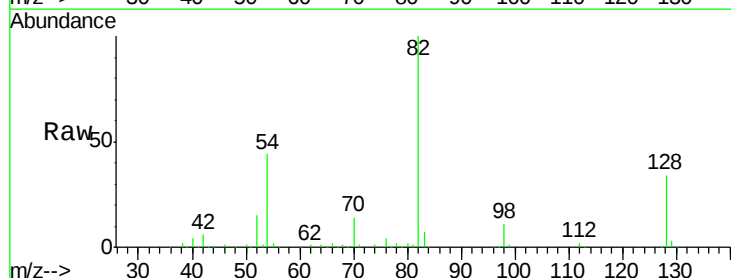
Tgt Ion: 82 Resp: 256725

Ion Ratio Lower Upper

82 100

128 33.9 34.0 51.0#

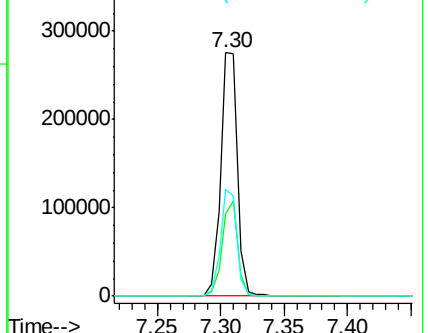
54 43.9 42.2 63.2

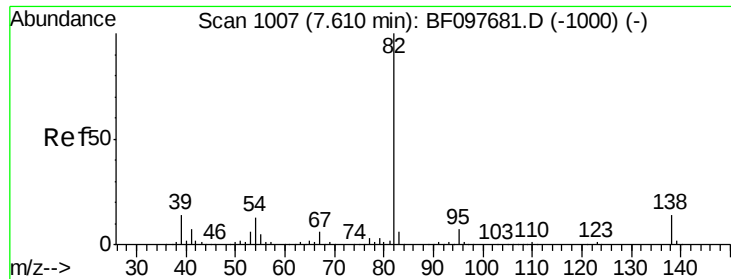


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 15.79 ng

RT: 7.30 min Scan# 887

Delta R.T. -0.28 min

Lab File: BF097924.D

Acq: 22 Aug 2017 00:02

Instrument :

BNA_F

ClientSampleId :

CL-02-081717-B

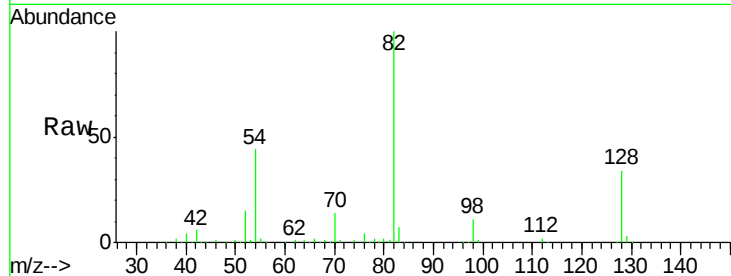
Tot Ion: 82 Resp: 249213

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

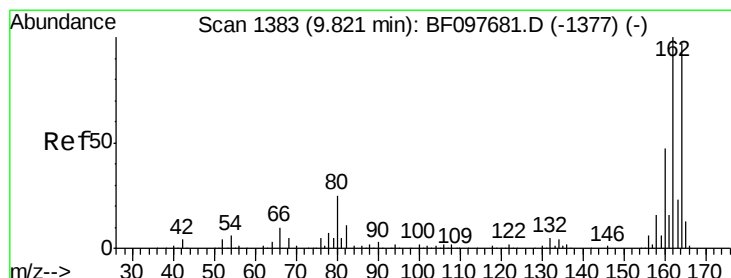
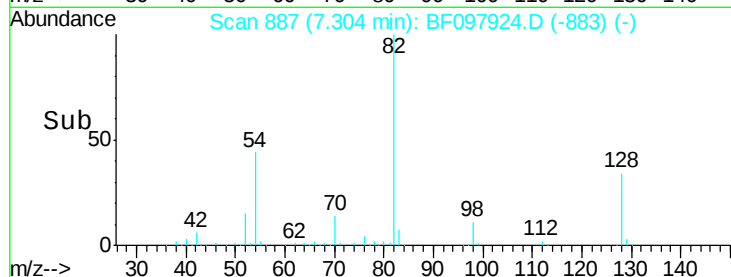
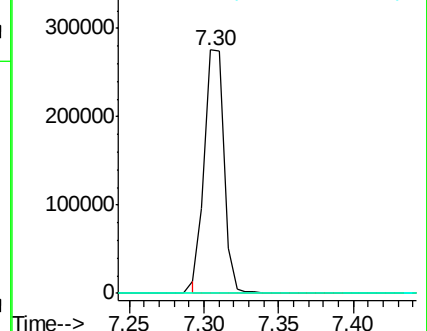
138 0.0 13.1 19.7#



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: 9.78 min Scan# 1308

Delta R.T. -0.01 min

Lab File: BF097924.D

Acq: 22 Aug 2017 00:02

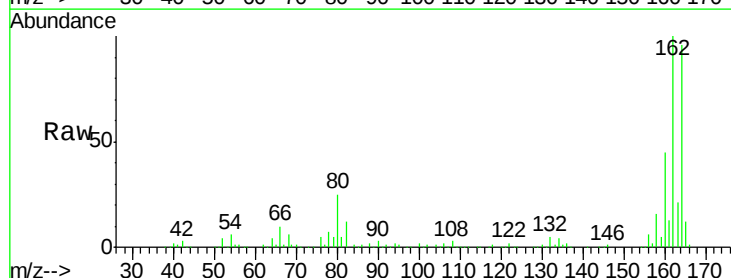
Tgt Ion:164 Resp: 161004

Ion Ratio Lower Upper

164 100

162 103.8 82.6 123.8

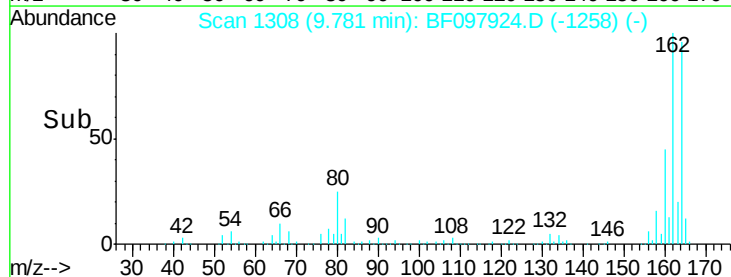
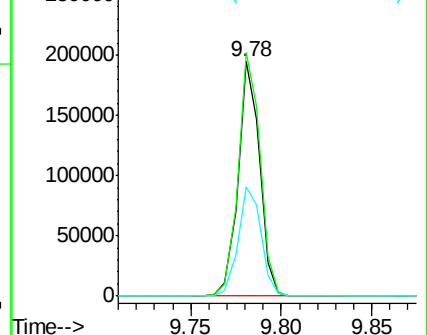
160 46.8 36.2 54.2

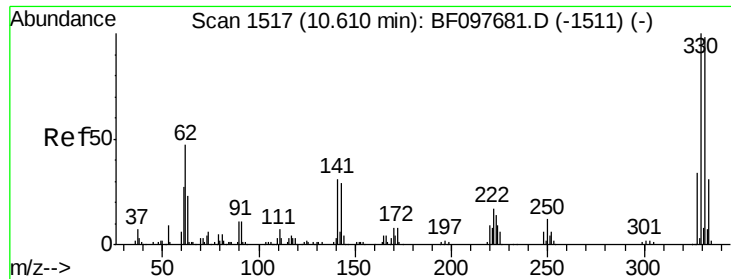


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

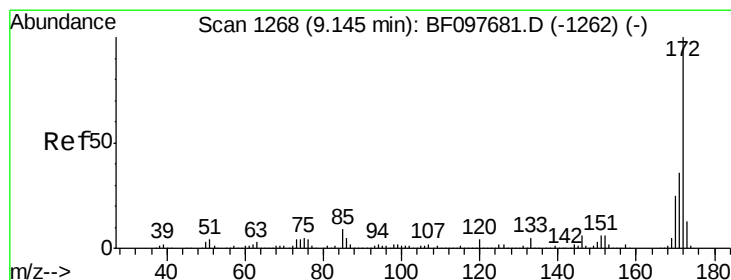
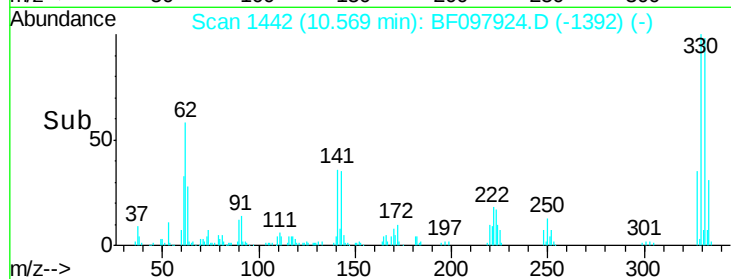
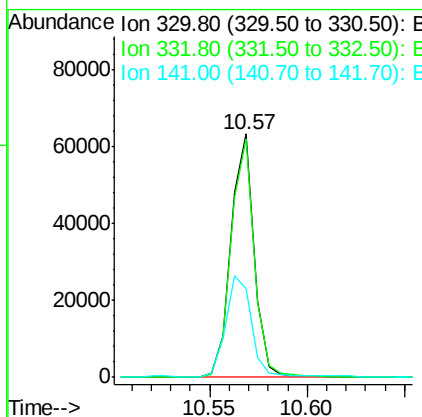
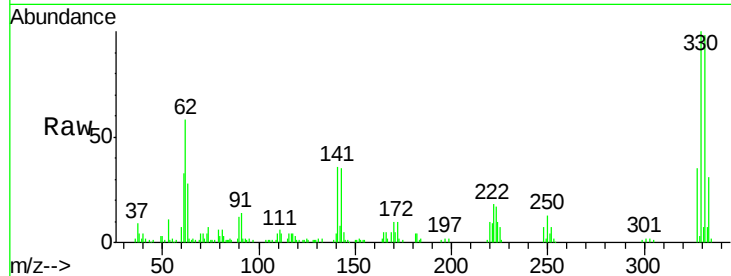




#41
 2,4,6-Tribromophenol
 Concen: 37.46 ng
 RT: 10.57 min Scan# 1442
 Delta R.T. -0.01 min
 Lab File: BF097924.D
 Acq: 22 Aug 2017 00:02

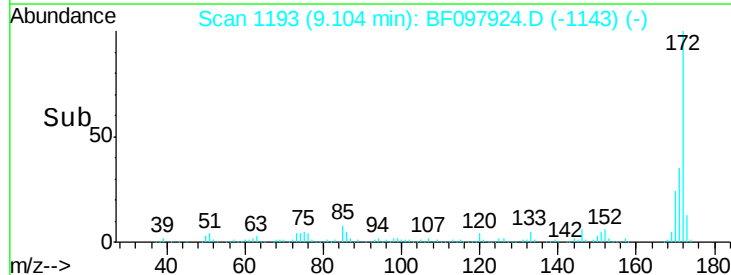
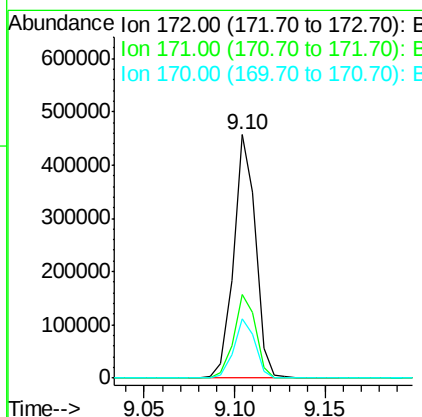
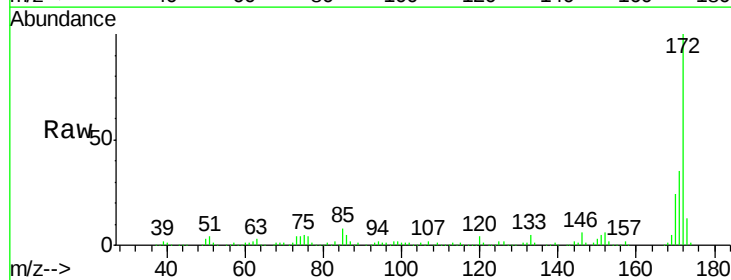
Instrument :
 BNA_F
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 CL-02-081717-B

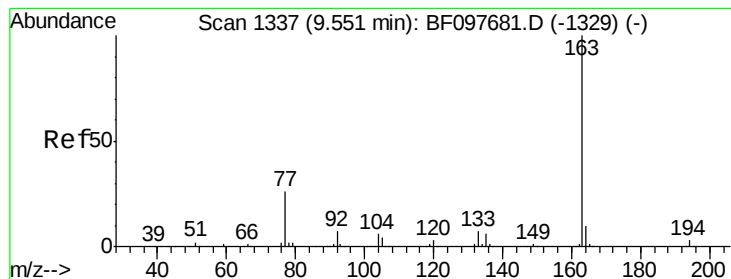
Tot Ion	Ratio	Lower	Upper
330	100		
332	98.0	76.6	115.0
141	47.4	31.4	47.2#



#44
 2-Fluorobiphenyl
 Concen: 35.09 ng
 RT: 9.10 min Scan# 1193
 Delta R.T. -0.01 min
 Lab File: BF097924.D
 Acq: 22 Aug 2017 00:02

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.6	29.6	44.4
170	24.1	19.8	29.8





#49

Dimethylphthalate

Concen: 5.83 ng

RT: 9.50 min Scan# 1260

Delta R.T. -0.02 min

Lab File: BF097924.D

Acq: 22 Aug 2017 00:02

Instrument :

BNA_F

ClientSampleId :

CL-02-081717-B

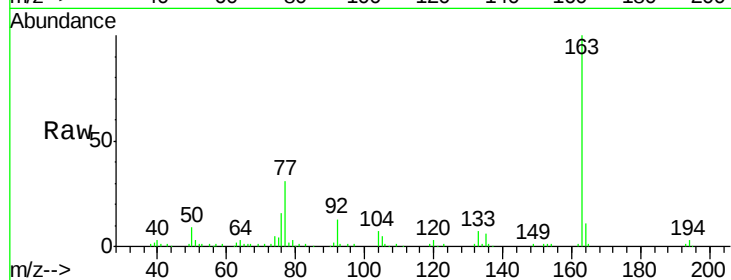
Tot Ion:163 Resp: 68559

Ion Ratio Lower Upper

163 100

194 3.2 2.6 4.0

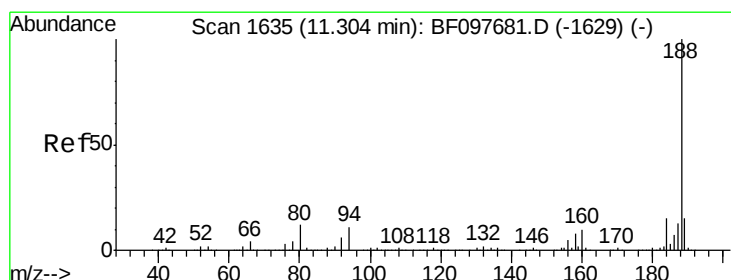
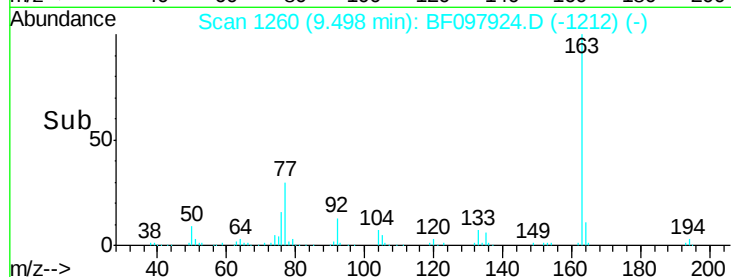
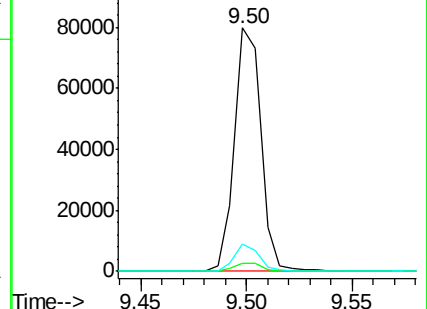
164 11.0 8.4 12.6



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.26 min Scan# 1560

Delta R.T. 0.00 min

Lab File: BF097924.D

Acq: 22 Aug 2017 00:02

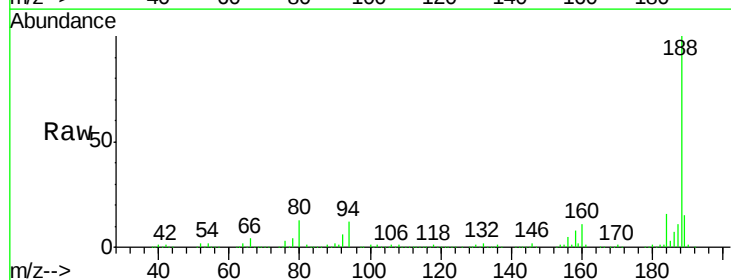
Tgt Ion:188 Resp: 259880

Ion Ratio Lower Upper

188 100

94 11.9 9.4 14.2

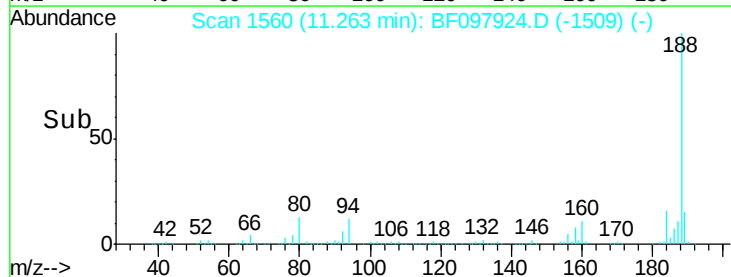
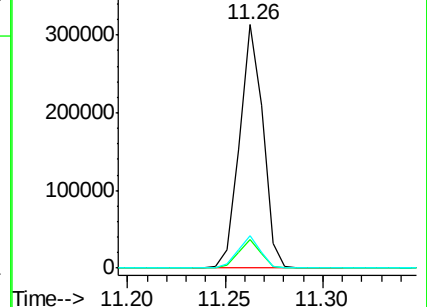
80 13.1 10.2 15.2

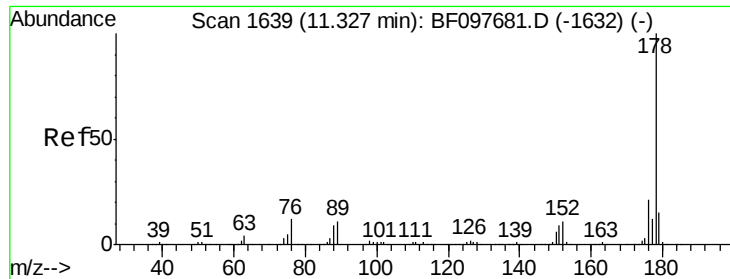


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

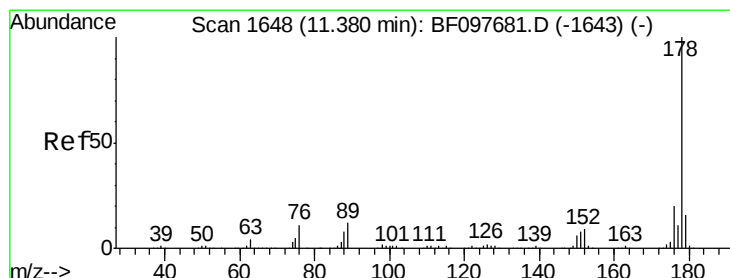
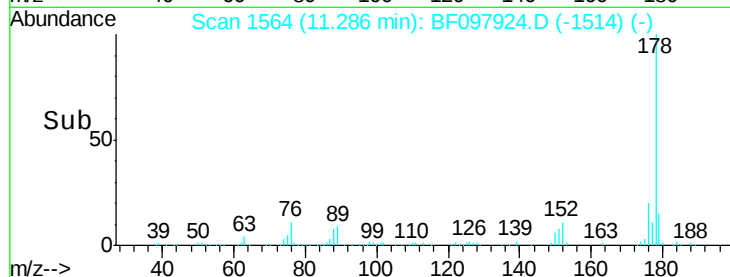
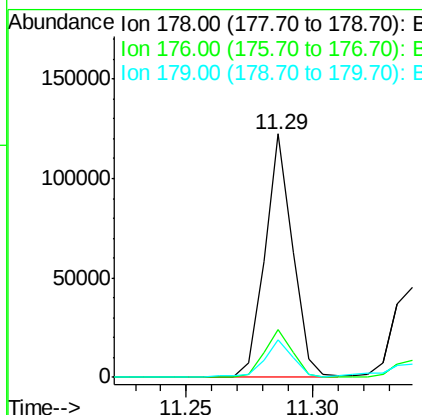
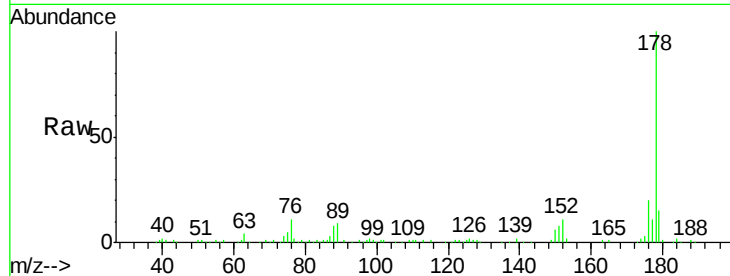




#70
Phenanthrene
Concen: 6.71 ng
RT: 11.29 min Scan# 1564
Delta R.T. -0.01 min
Lab File: BF097924.D
Acq: 22 Aug 2017 00:02

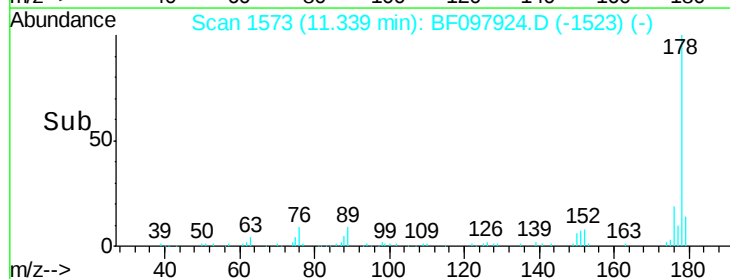
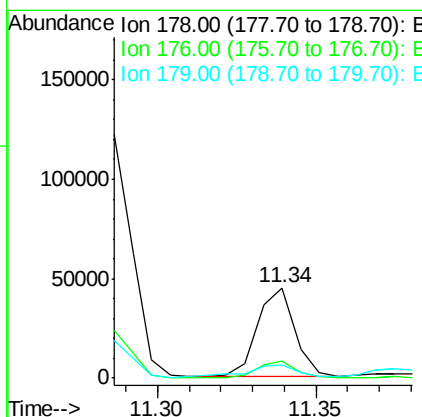
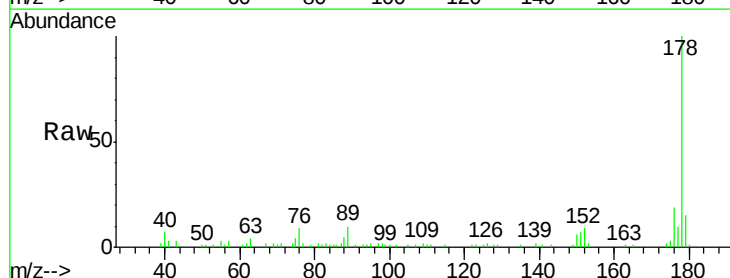
Instrument :
BNA_F
ClientSampleId :
CL-02-081717-B

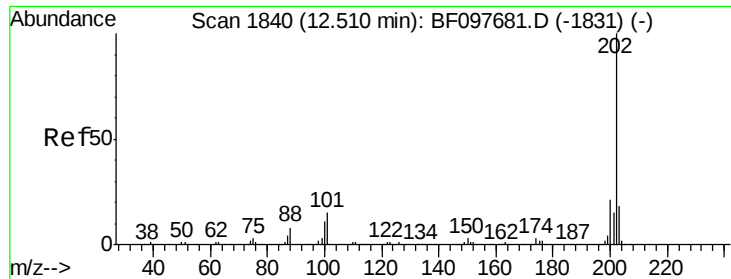
Tot Ion:178 Resp: 92878
Ion Ratio Lower Upper
178 100
176 19.5 16.2 24.4
179 15.4 12.6 19.0



#71
Anthracene
Concen: 2.63 ng
RT: 11.34 min Scan# 1573
Delta R.T. -0.01 min
Lab File: BF097924.D
Acq: 22 Aug 2017 00:02

Tgt Ion:178 Resp: 36971
Ion Ratio Lower Upper
178 100
176 19.1 15.8 23.8
179 14.8 12.7 19.1





#74

Fluoranthene

Concen: 12.90 ng

RT: 12.47 min Scan# 1766

Delta R.T. 0.00 min

Lab File: BF097924.D

Acq: 22 Aug 2017 00:02

Instrument :

BNA_F

ClientSampleId :

CL-02-081717-B

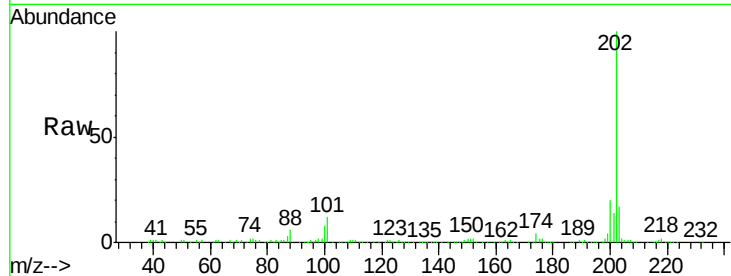
Tot Ion:202 Resp: 186517

Ion Ratio Lower Upper

202 100

101 11.8 0.0 33.2

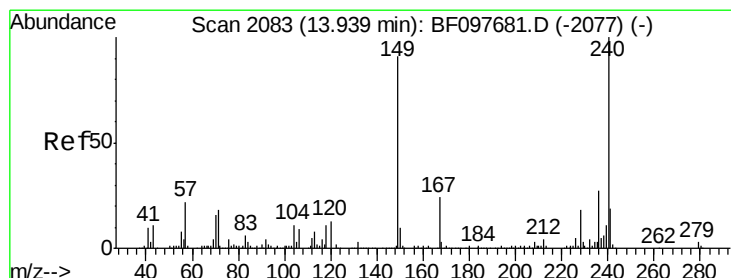
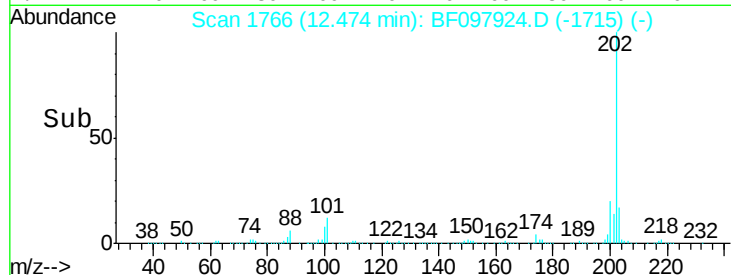
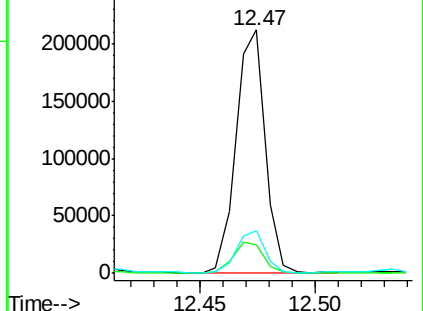
203 17.4 0.0 38.1



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: 13.90 min Scan# 2008

Delta R.T. 0.00 min

Lab File: BF097924.D

Acq: 22 Aug 2017 00:02

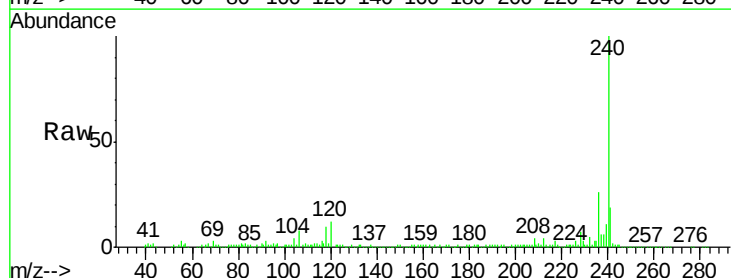
Tgt Ion:240 Resp: 221960

Ion Ratio Lower Upper

240 100

120 11.8 5.8 8.8#

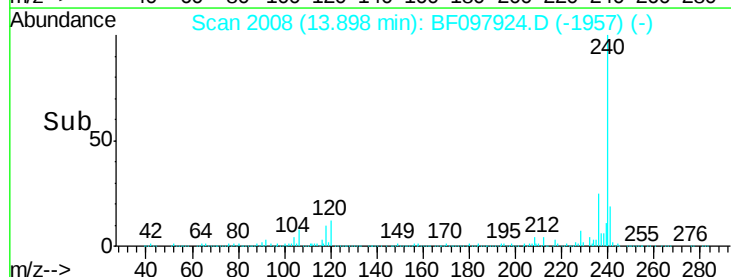
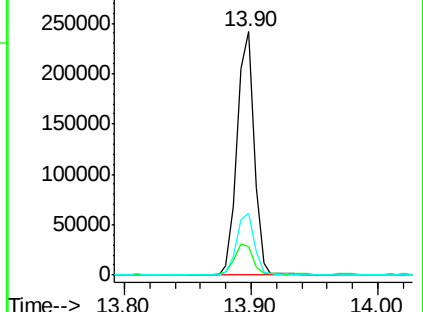
236 25.6 20.5 30.7

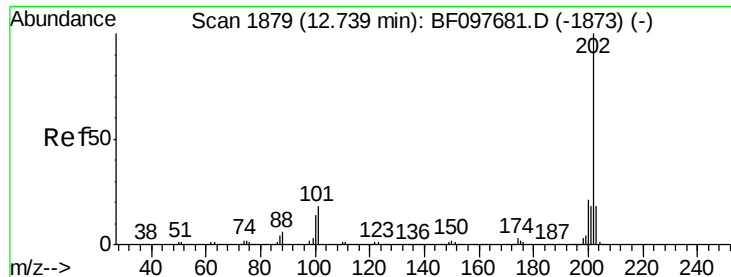


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

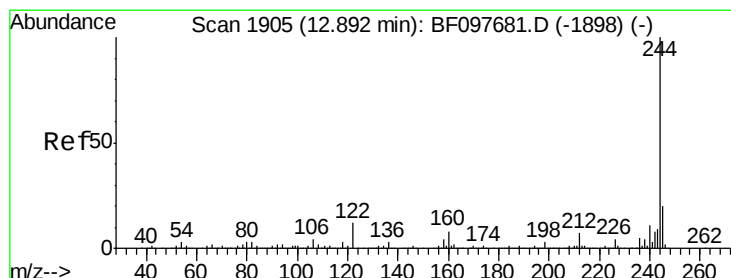
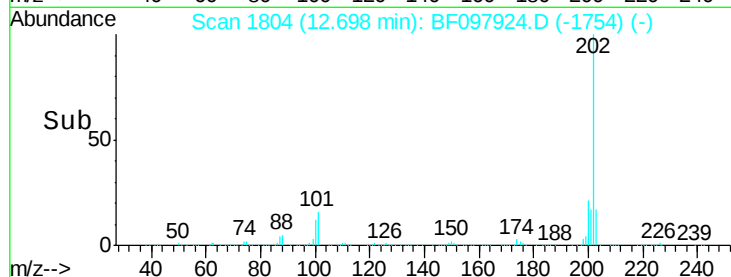
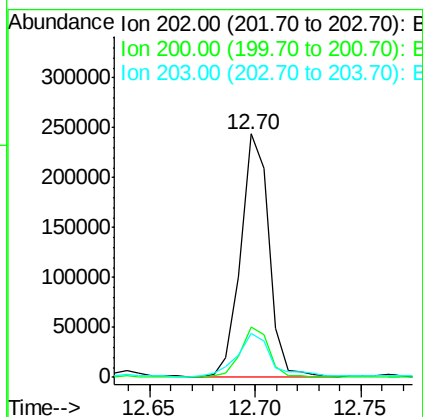
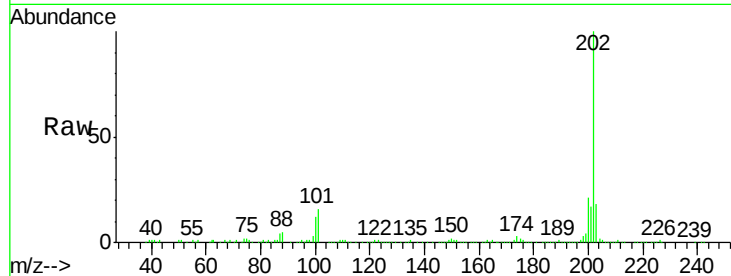




#77
Pvrene
Concen: 12.37 ng
RT: 12.70 min Scan# 1804
Delta R.T. -0.01 min
Lab File: BF097924.D
Acq: 22 Aug 2017 00:02

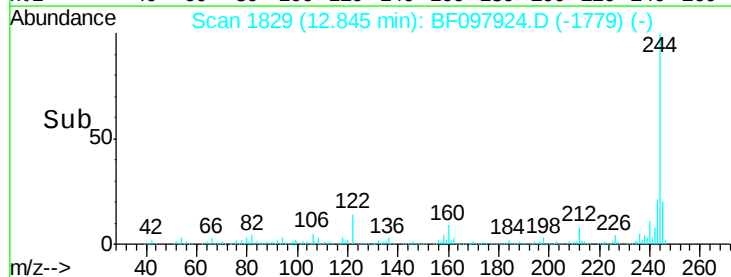
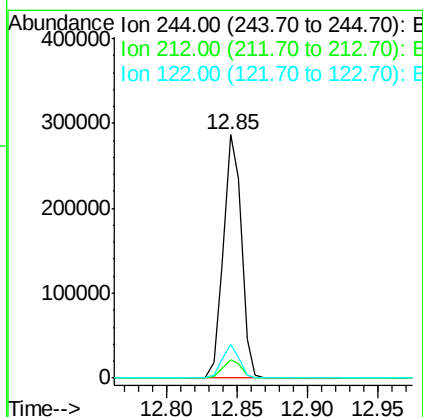
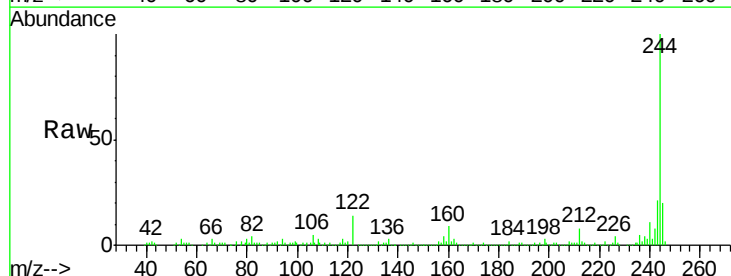
Instrument :
BNA_F
ClientSampleId :
CL-02-081717-B

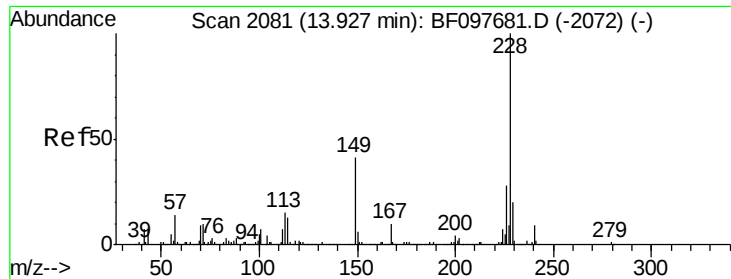
Tot Ion:202 Resp: 224633
Ion Ratio Lower Upper
202 100
200 20.6 17.6 26.4
203 17.9 14.4 21.6



#78
Terphenyl-d14
Concen: 23.95 ng
RT: 12.85 min Scan# 1829
Delta R.T. -0.01 min
Lab File: BF097924.D
Acq: 22 Aug 2017 00:02

Tgt Ion:244 Resp: 254908
Ion Ratio Lower Upper
244 100
212 7.6 6.0 9.0
122 13.6 10.3 15.5

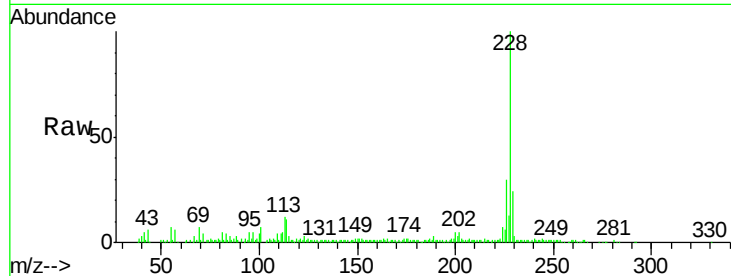




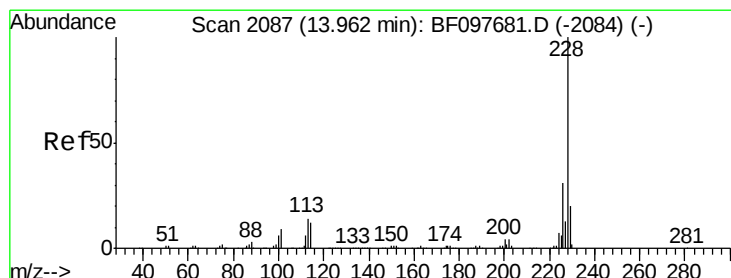
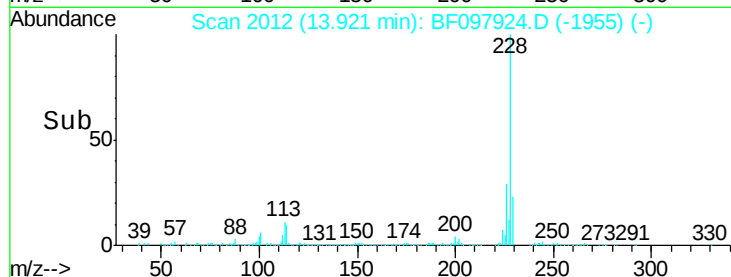
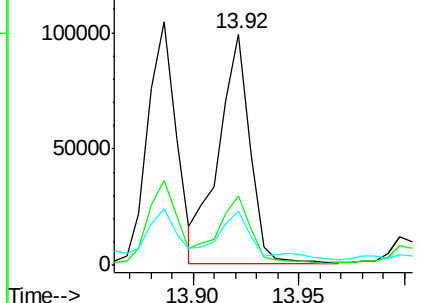
#80
Benzo(a)anthracene
Concen: 7.56 ng
RT: 13.92 min Scan# 2012
Delta R.T. 0.04 min
Lab File: BF097924.D
Acq: 22 Aug 2017 00:02

Instrument :
BNA_F
ClientSampleId :
CL-02-081717-B

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.4	22.6	33.8
229	23.7	16.3	24.5

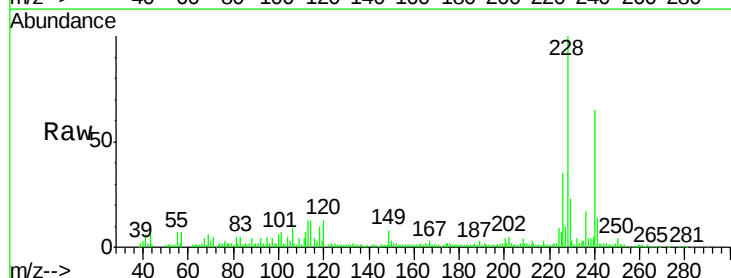


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

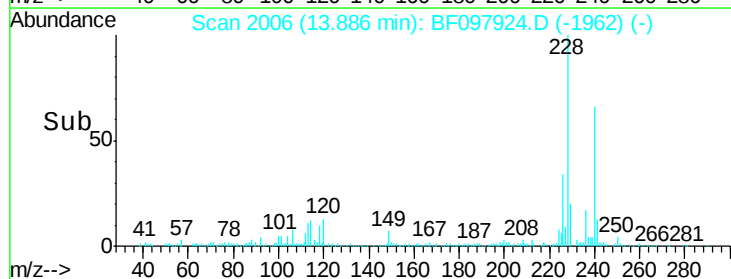
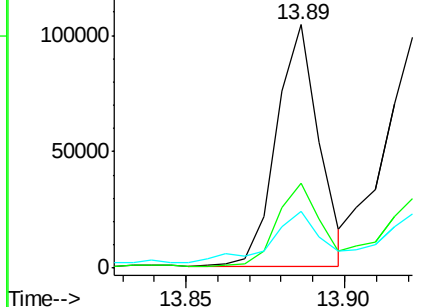


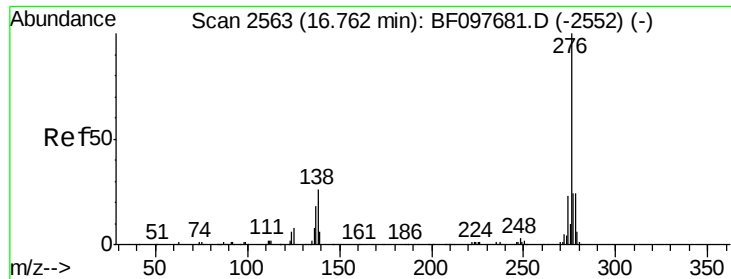
#82
Chrysene
Concen: 7.28 ng
RT: 13.89 min Scan# 2006
Delta R.T. -0.04 min
Lab File: BF097924.D
Acq: 22 Aug 2017 00:02

Tgt Ion	Ratio	Lower	Upper
228	100		
226	35.1	24.9	37.3
229	23.1	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

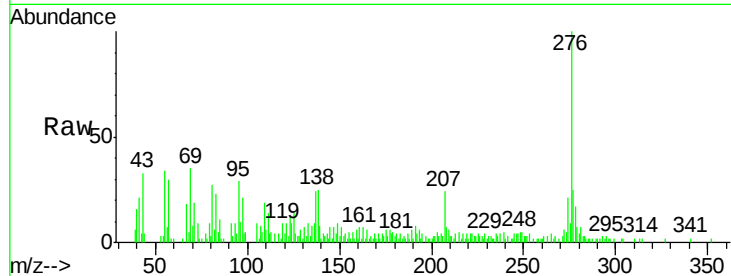




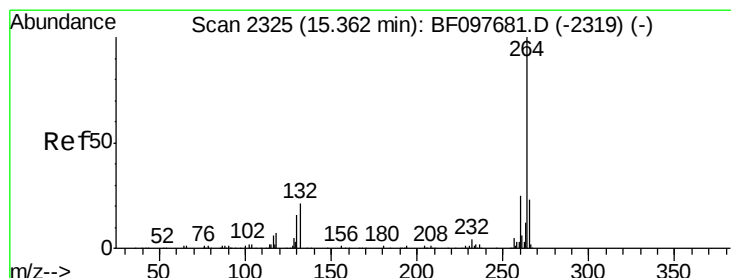
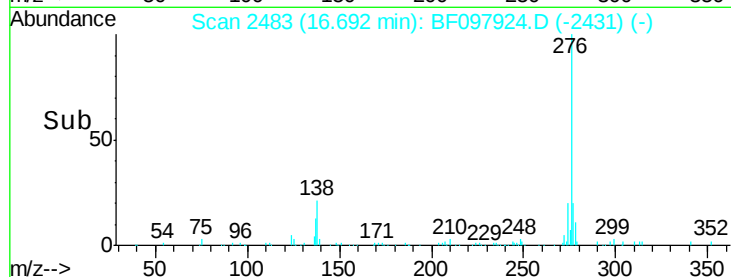
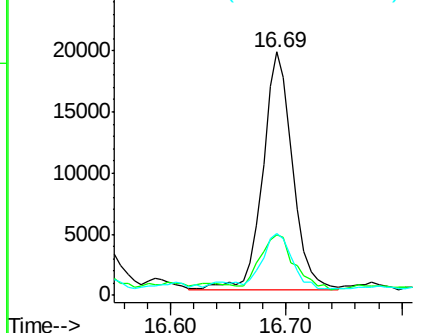
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.60 ng
 RT: 16.69 min Scan# 2483
 Delta R.T. 0.01 min
 Lab File: BF097924.D
 Acq: 22 Aug 2017 00:02

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-081717-B

Tot Ion	Ratio	Lower	Upper
276	100		
138	25.8	27.8	41.6#
277	23.0	20.2	30.4

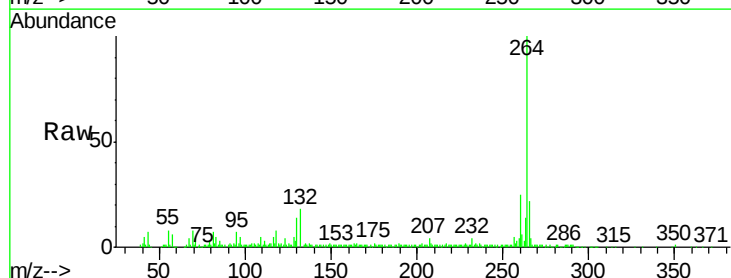


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

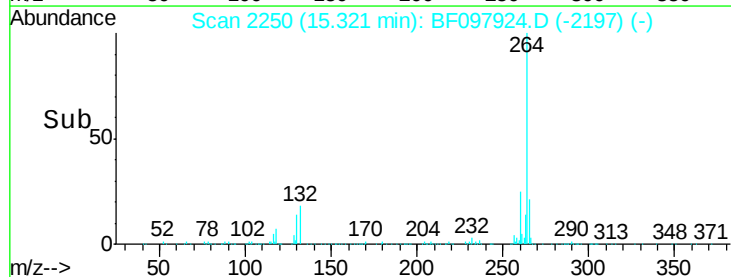
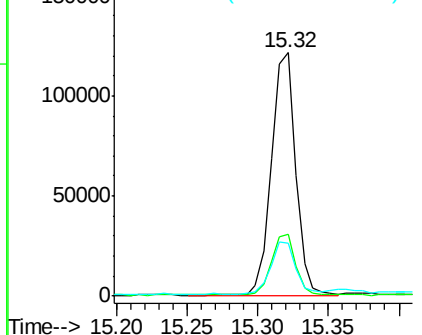


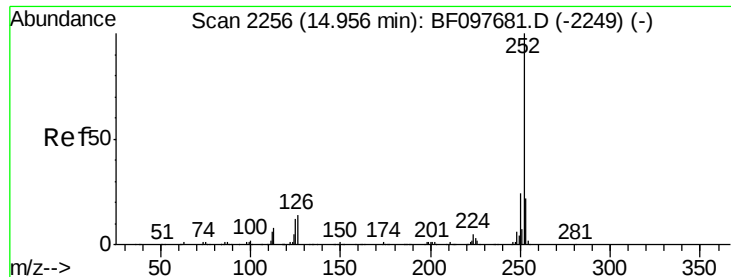
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.32 min Scan# 2250
 Delta R.T. 0.01 min
 Lab File: BF097924.D
 Acq: 22 Aug 2017 00:02

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.4	19.5	29.3
265	21.6	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: 12.99 ng

RT: 14.91 min Scan# 2180

Delta R.T. 0.00 min

Lab File: BF097924.D

Acq: 22 Aug 2017 00:02

Instrument :

BNA_F

ClientSampleId :

CL-02-081717-B

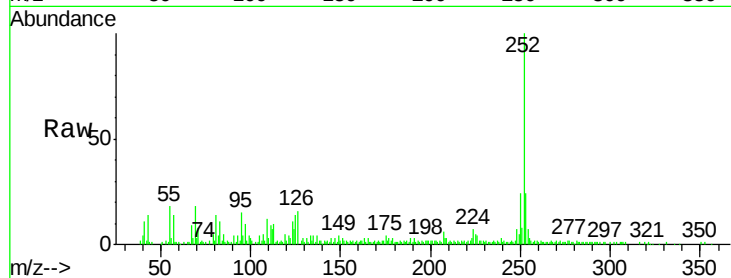
Tot Ion:252 Resp: 120158

Ion Ratio Lower Upper

252 100

253 24.2 18.1 27.1

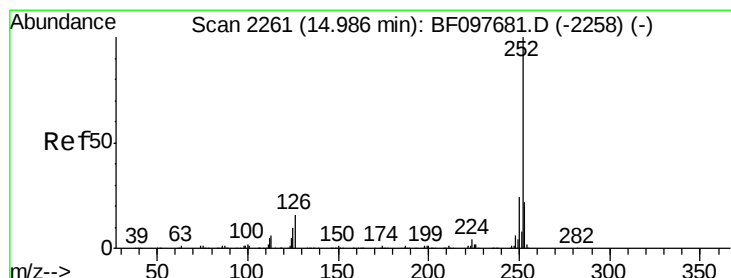
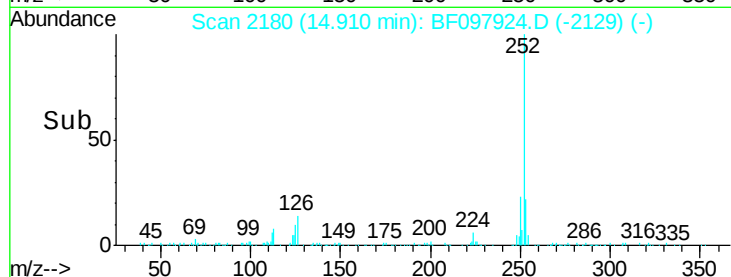
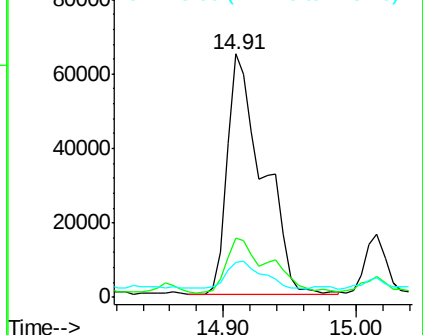
125 14.4 9.8 14.8



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: 13.83 ng

RT: 14.91 min Scan# 2180

Delta R.T. -0.03 min

Lab File: BF097924.D

Acq: 22 Aug 2017 00:02

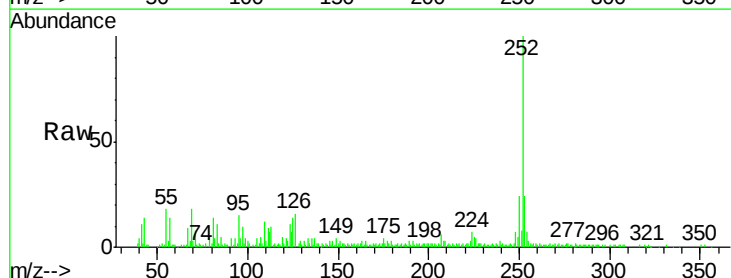
Tgt Ion:252 Resp: 120158

Ion Ratio Lower Upper

252 100

253 24.2 18.4 27.6

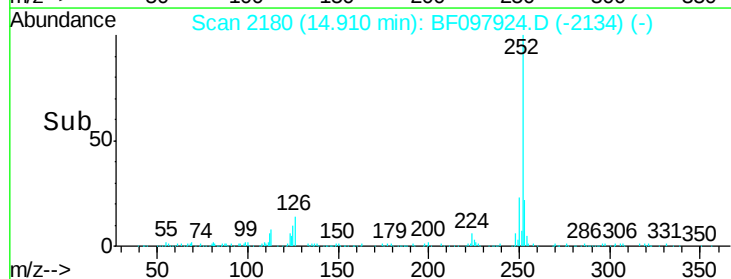
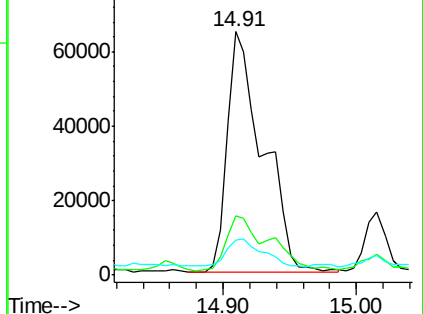
125 14.4 13.1 19.7

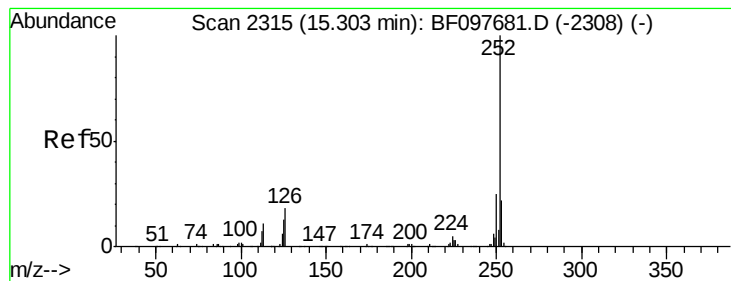


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 8.46 ng

RT: 15.26 min Scan# 2239

Delta R.T. 0.00 min

Lab File: BF097924.D

Acq: 22 Aug 2017 00:02

Instrument :

BNA_F

ClientSampleId :

CL-02-081717-B

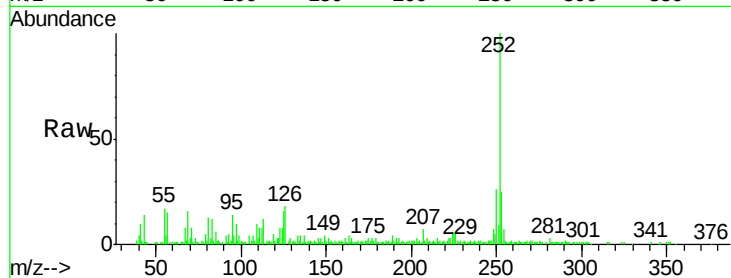
Tot Ion:252 Resp: 69276

Ion Ratio Lower Upper

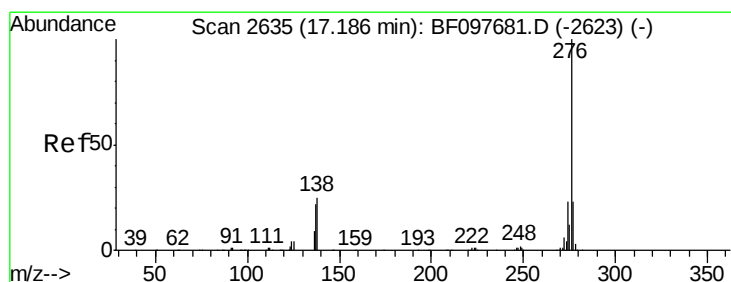
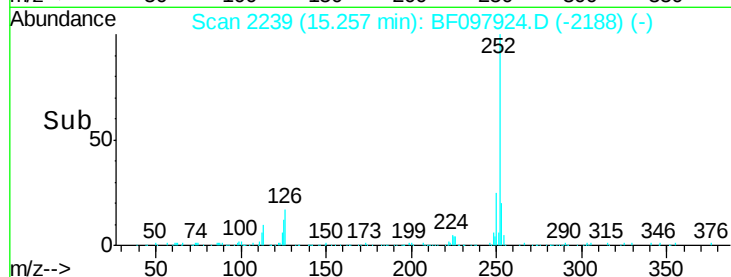
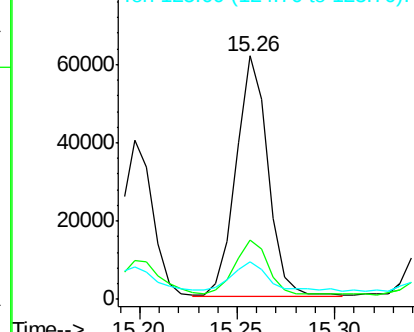
252 100

253 24.5 17.5 26.3

125 15.6 11.0 16.4



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(g,h,i)perylene

Concen: 4.89 ng

RT: 17.11 min Scan# 2554

Delta R.T. 0.00 min

Lab File: BF097924.D

Acq: 22 Aug 2017 00:02

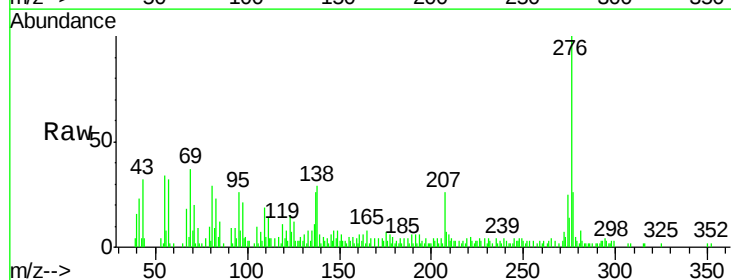
Tgt Ion:276 Resp: 33984

Ion Ratio Lower Upper

276 100

277 26.4 18.6 28.0

138 29.0 25.4 38.0



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

