

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\
 Data File : BF083430.D
 Acq On : 2 Dec 2015 21:19
 Operator : UM/IZ
 Sample : G4584-10
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-16(4-11)

Manual Integrations
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 12/3/2015 7:09:47 PM

Quant Time: Dec 03 04:44:26 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 01 01:17:16 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.54	152	140699m	20.00	ng	0.00
21) Naphthalene-d8	7.85	136	480780	20.00	ng	0.01
38) Acenaphthene-d10	9.57	164	267499	20.00	ng	-0.01
63) Phenanthrene-d10	11.12	188	499225	20.00	ng	-0.01
75) Chrysene-d12	14.74	240	377442	20.00	ng	-0.02
86) Perylene-d12	16.80	264	345339	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.13	112	1103631	117.70	ng	0.00
7) Phenol-d6	6.21	99	1563980	121.86	ng	-0.01
23) Nitrobenzene-d5	7.12	82	1019212	93.19	ng	-0.01
41) 2,4,6-Tribromophenol	10.36	330	270961	100.91	ng	-0.02
44) 2-Fluorobiphenyl	8.91	172	1385818	73.83	ng	-0.01
78) Terphenyl-d14	13.21	244	1300134	82.15	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	7.88	128	13051900	500.34	ng	# 85
37) 2-Methylnaphthalene	8.54	142	2490967m	142.88	ng	
45) 1,1'-Biphenyl	9.01	154	845896	36.06	ng	99
48) Acenaphthylene	9.45	152	3883444	136.20	ng	95
49) Dimethylphthalate	9.31	163	425517	19.57	ng	98
51) Acenaphthene	9.61	154	257486	15.35	ng	99
54) Dibenzofuran	9.78	168	223669	9.10	ng	# 92
57) Fluorene	10.12	166	1098357m	56.59	ng	
70) Phenanthrene	11.16	178	5169106m	174.96	ng	
71) Anthracene	11.21	178	1564196	52.59	ng	99
74) Fluoranthene	12.66	202	2724914	88.98	ng	97
77) Pylene	12.97	202	3488342	132.34	ng	95
80) Benzo(a)anthracene	14.72	228	957591m	41.41	ng	
82) Chrysene	14.77	228	844351	37.79	ng	99
83) Bis(2-ethylhexyl)phthalate	14.84	149	67864	4.52	ng	# 100
85) Indeno(1,2,3-cd)pyrene	18.17	276	398837m	24.51	ng	
87) Benzo(b)fluoranthene	16.28	252	713918m	32.22	ng	
88) Benzo(k)fluoranthene	16.32	252	214823m	10.27	ng	
89) Benzo(a)pyrene	16.73	252	829556	43.59	ng	98
90) Dibenz(a,h)anthracene	18.18	278	86511	5.22	ng	97
91) Benzo(g,h,i)perylene	18.55	276	448666	27.57	ng	99

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

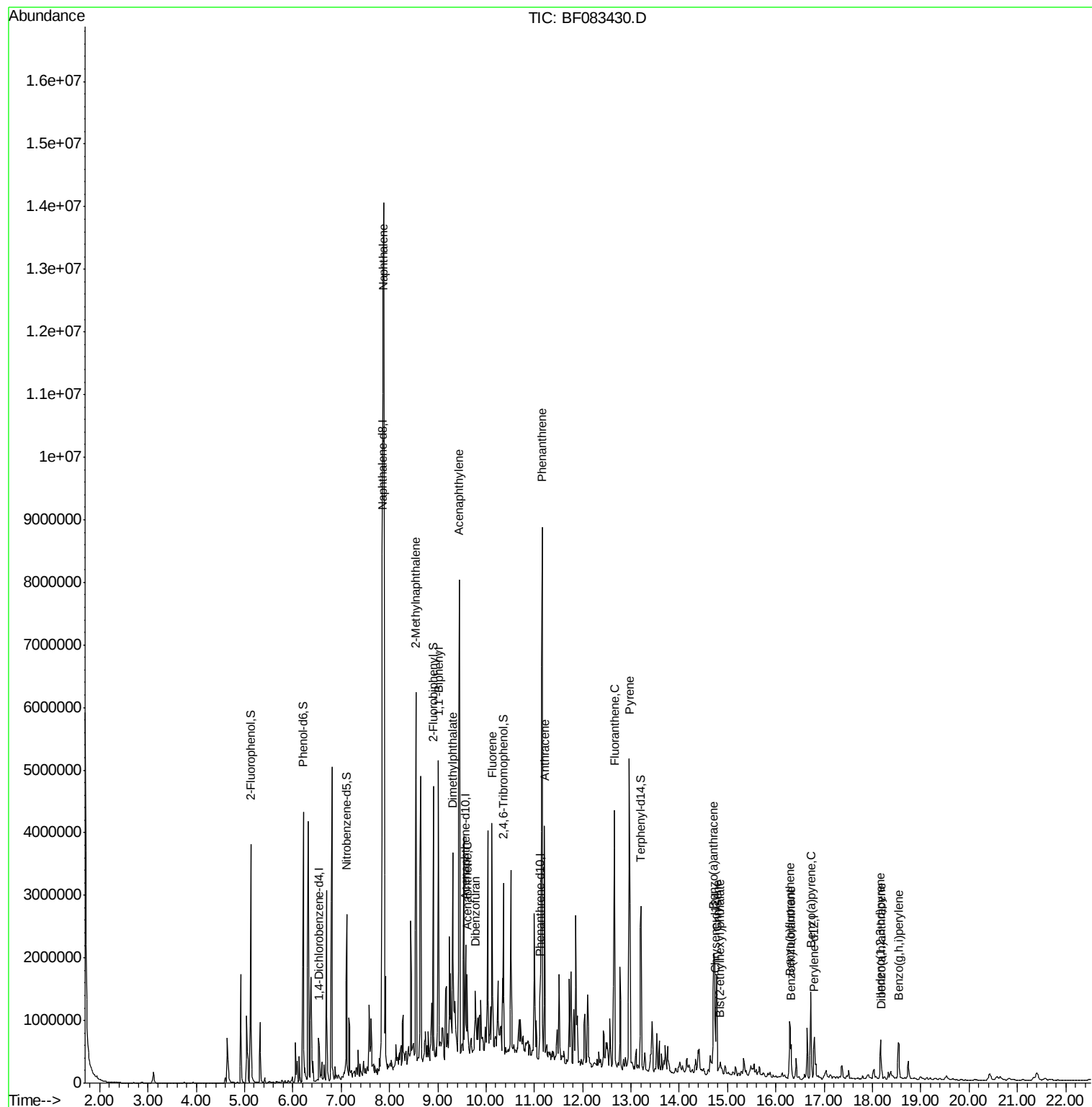
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#1

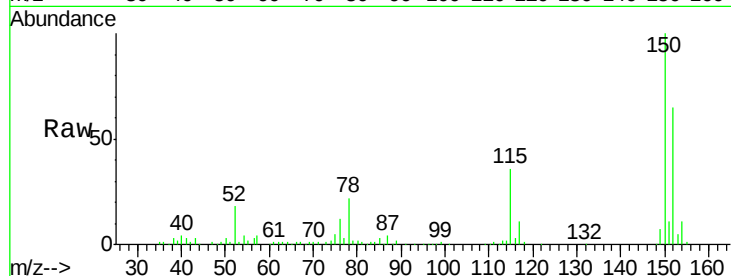
1,4-Dichlorobenzene-d4
Concen: 20.00 ng/ml
RT: 6.54 min Scan# 425
Delta R.T. -0.00 min
Lab File: BF083430.D
Acq: 2 Dec 2015 21:19

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-16(4-11)

Tot Ion	Ratio	Resp	Lower	Upper
152	100	140699		
150	154.6	129.8	194.8	
115	56.1	59.2	88.8	

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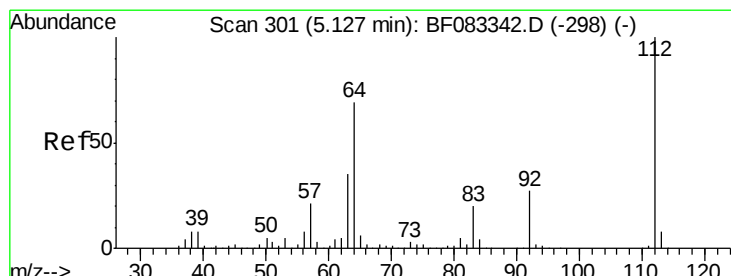
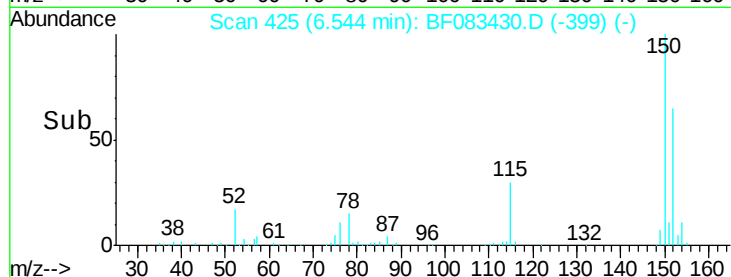
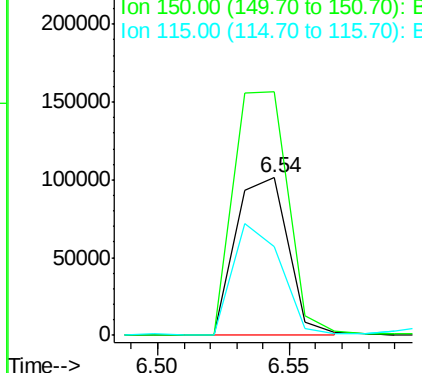


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

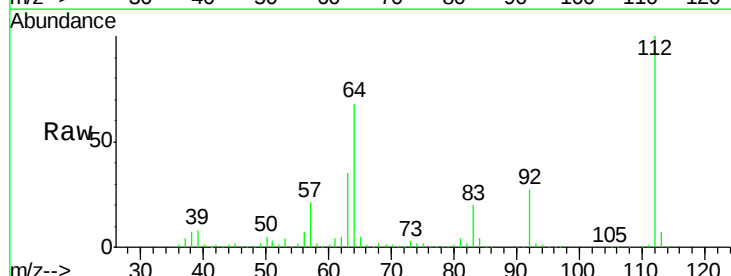
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 117.70 ng
RT: 5.13 min Scan# 301
Delta R.T. -0.00 min
Lab File: BF083430.D
Acq: 2 Dec 2015 21:19

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	1103631		
64	67.8	55.6	83.4	
63	34.5	28.2	42.2	

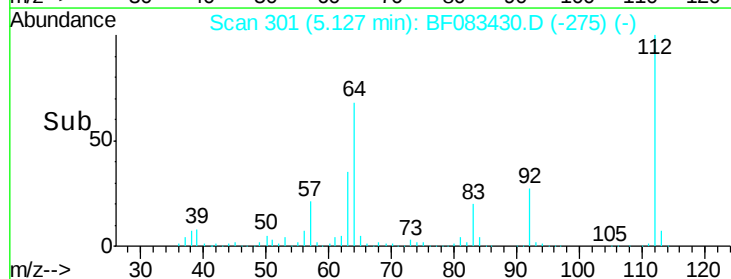
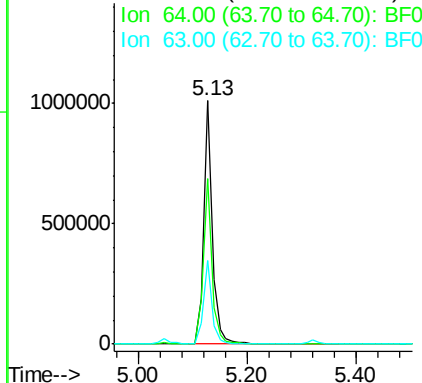


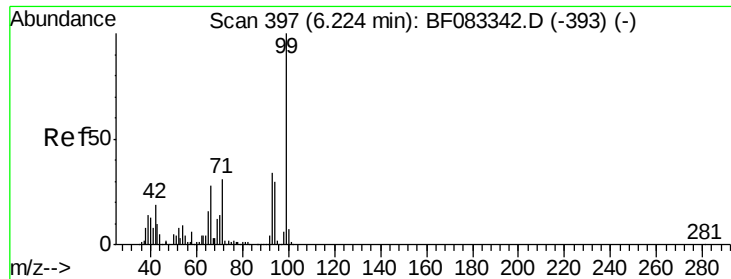
Abundance

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: 121.86 ng

RT: 6.21 min Scan# 396

Delta R.T. -0.01 min

Lab File: BF083430.D

Acq: 2 Dec 2015 21:19

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-16(4-11)

Tot Ion: 99 Resp: 1563980

Ion Ratio Lower Upper

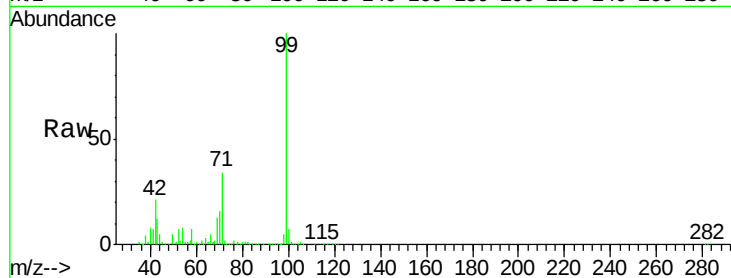
99 100

42 21.2 14.9 22.3

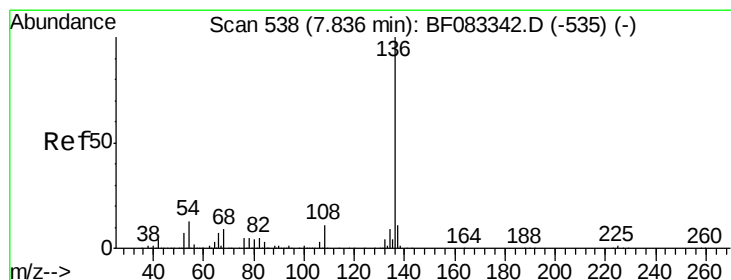
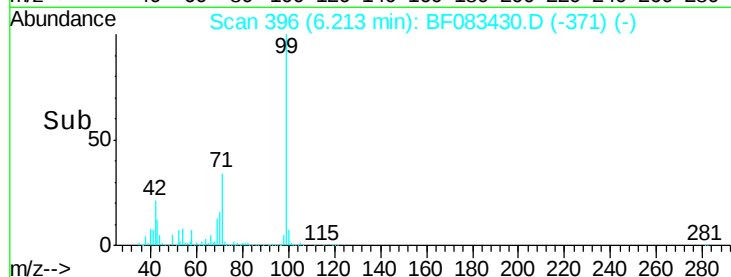
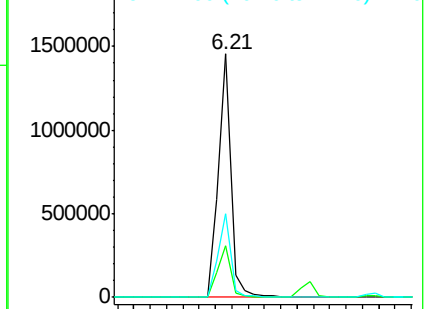
71 34.2 24.7 37.1

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Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.85 min Scan# 539

Delta R.T. 0.01 min

Lab File: BF083430.D

Acq: 2 Dec 2015 21:19

Tgt Ion: 136 Resp: 480780

Ion Ratio Lower Upper

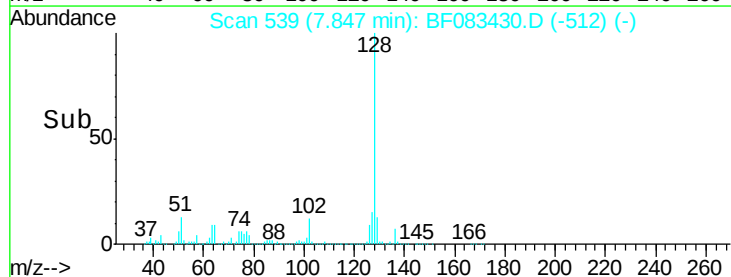
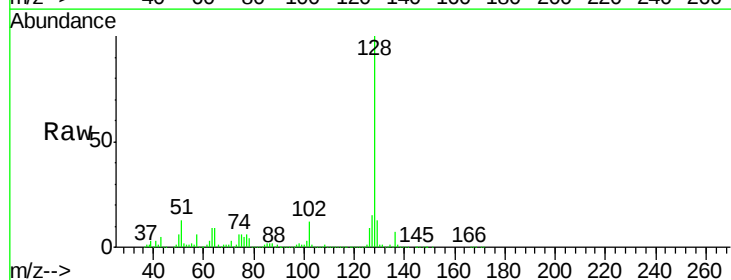
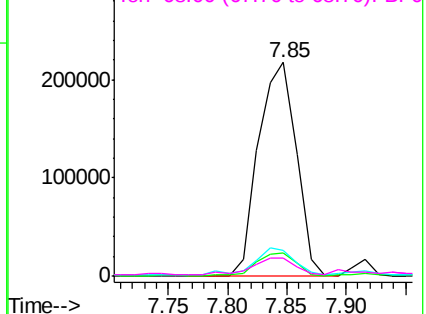
136 100

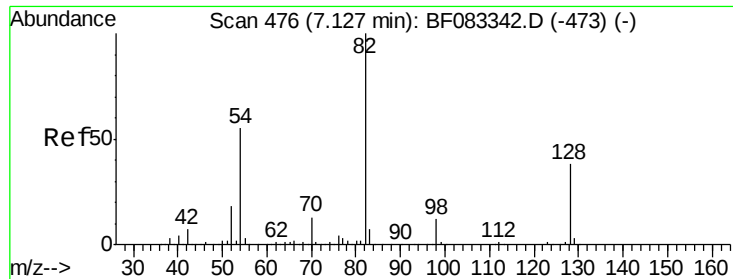
137 10.9 9.0 13.4

54 12.0 10.1 15.1

68 8.4 7.1 10.7

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0





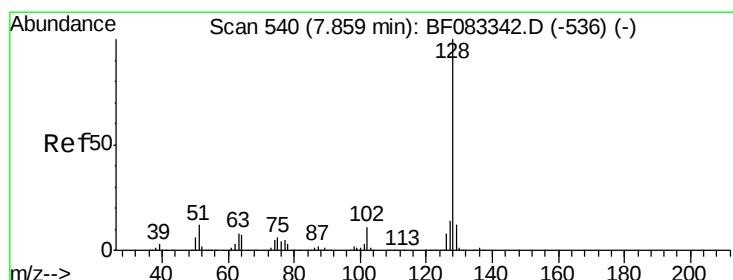
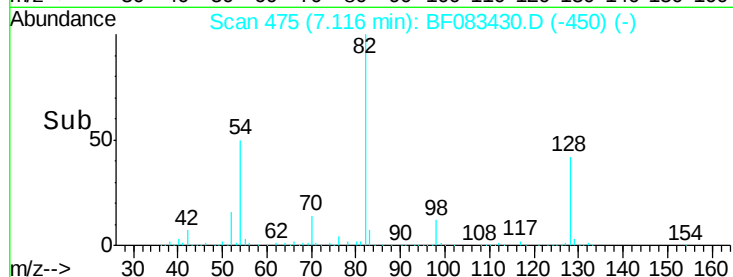
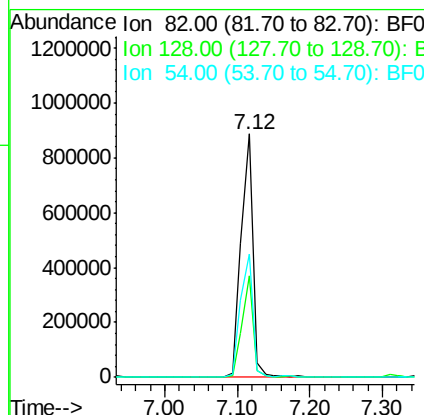
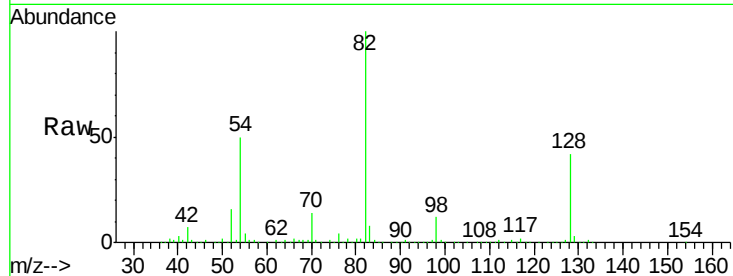
#23
Nitrobenzene-d5
Concen: 93.19 ng
RT: 7.12 min Scan# 475
Delta R.T. -0.01 min
Lab File: BF083430.D
Acq: 2 Dec 2015 21:19

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-16(4-11)

Tot Ion	82	Resp	1019212
Ion Ratio	100	Lower	Upper
82	100		
128	41.9	30.6	46.0
54	50.4	43.8	65.6

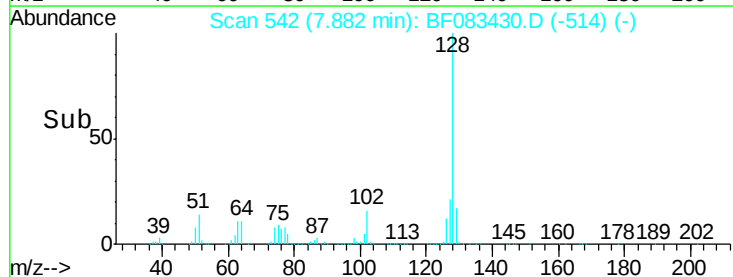
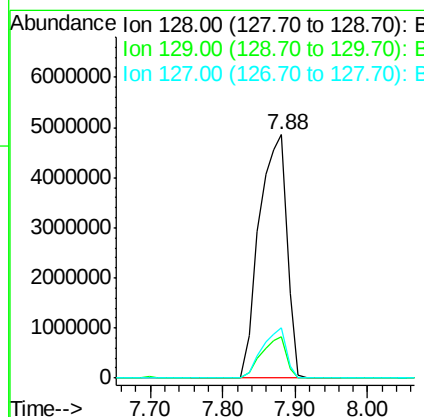
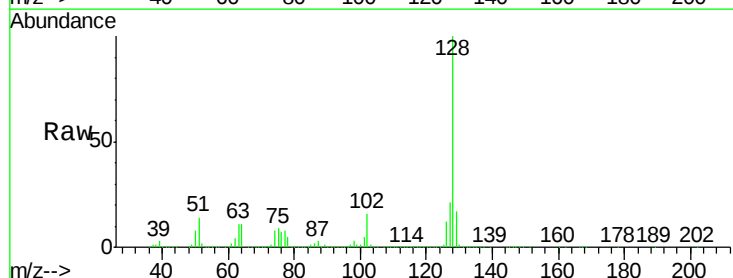
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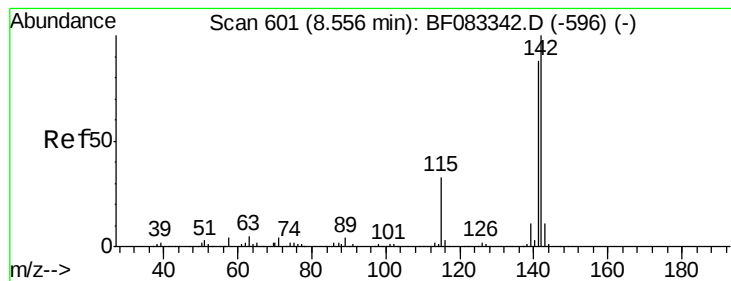
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#31
Naphthalene
Concen: 500.34 ng
RT: 7.88 min Scan# 542
Delta R.T. 0.02 min
Lab File: BF083430.D
Acq: 2 Dec 2015 21:19

Tgt Ion	128	Resp	13051900
Ion Ratio	100	Lower	Upper
128	100		
129	17.1	9.7	14.5#
127	20.5	11.0	16.4#





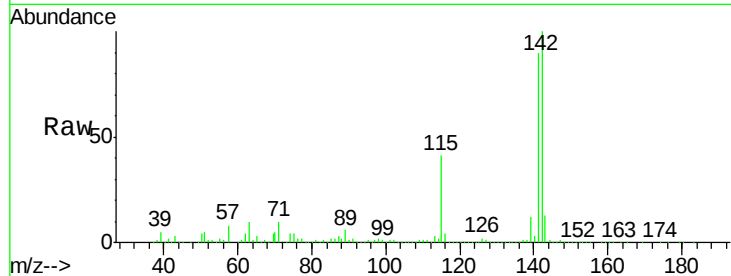
#37
2-Methylnaphthalene
Concen: 142.88 ng/mL
RT: 8.54 min Scan# 600
Delta R.T. -0.01 min
Lab File: BF083430.D
Acq: 2 Dec 2015 21:19

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-16(4-11)

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.6	70.6	105.8
115	40.6	26.2	39.2

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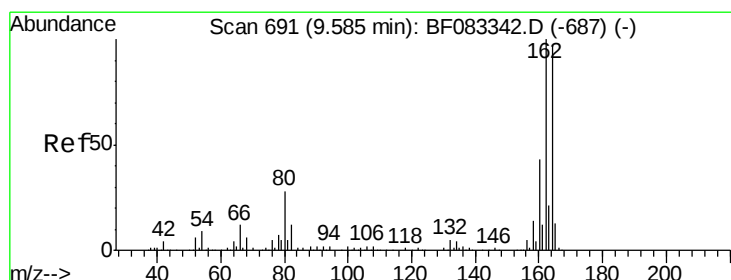
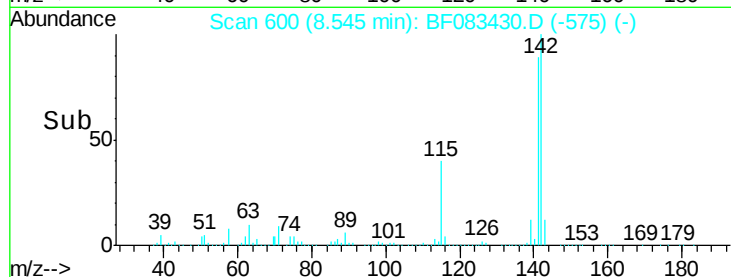
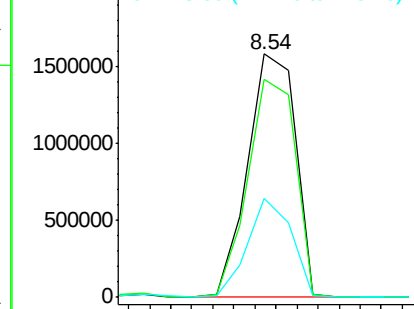


Abundance

Ion 142.00 (141.70 to 142.70): E

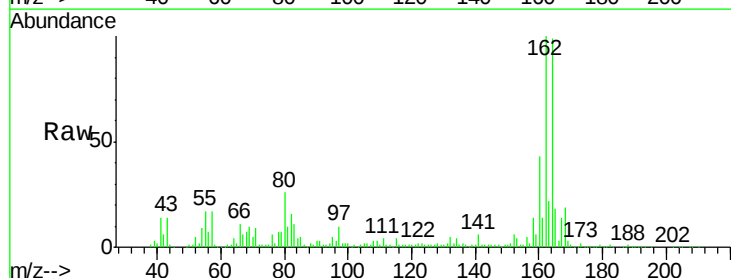
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
Acenaphthene-d10
Concen: 20.00 ng/mL
RT: 9.57 min Scan# 690
Delta R.T. -0.01 min
Lab File: BF083430.D
Acq: 2 Dec 2015 21:19

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.1	82.6	123.8
160	43.7	35.3	52.9

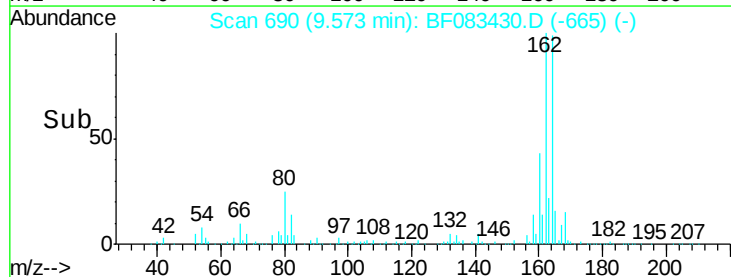
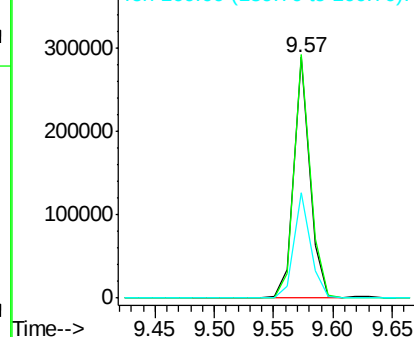


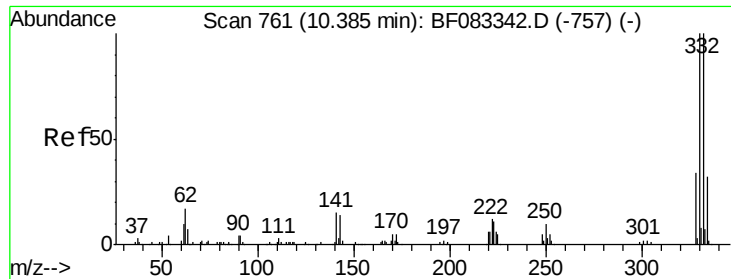
Abundance

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: 100.91 ng

RT: 10.36 min Scan# 759

Delta R.T. -0.02 min

Lab File: BF083430.D

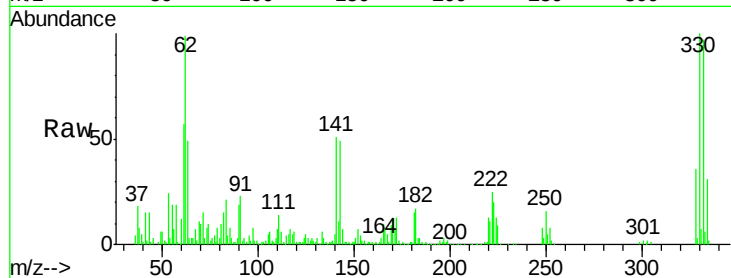
Acq: 2 Dec 2015 21:19

Instrument :

BNA_F

ClientSampleId :

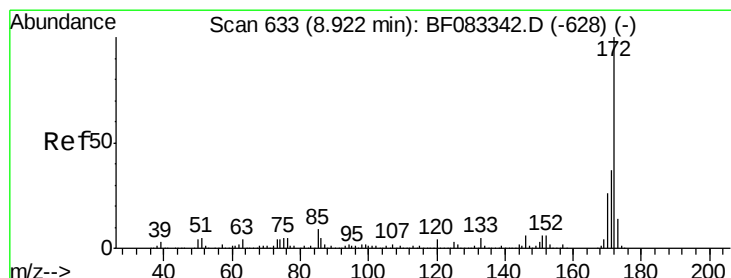
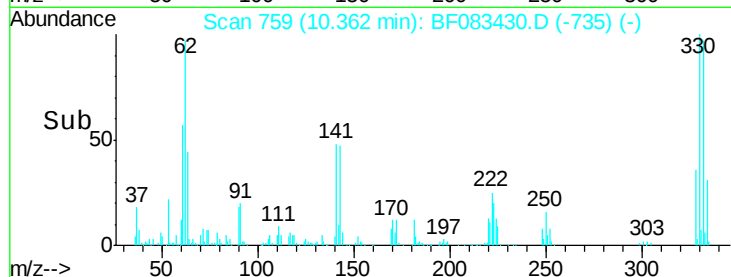
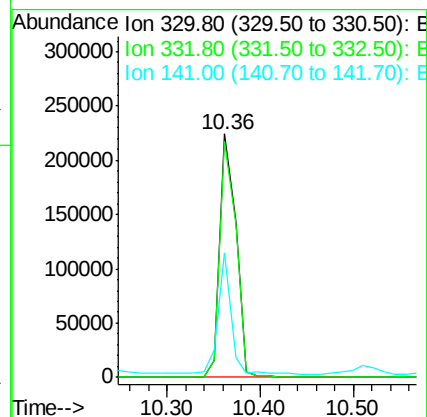
SB-P3WC-16(4-11)



Tot Ion:	330	Resp:	270961
Ion Ratio	Lower	Upper	
330	100		
332	97.3	77.8	116.6
141	40.6	29.4	44.0

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#44

2-Fluorobiphenyl

Concen: 73.83 ng

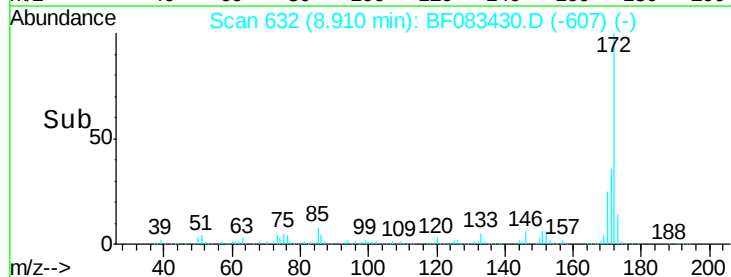
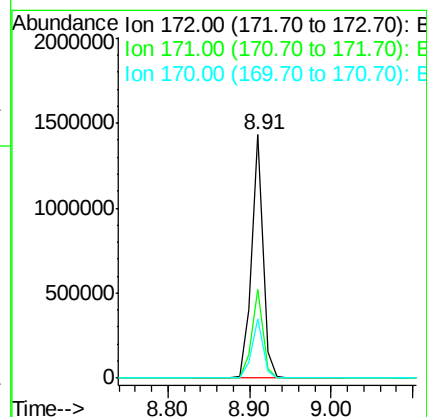
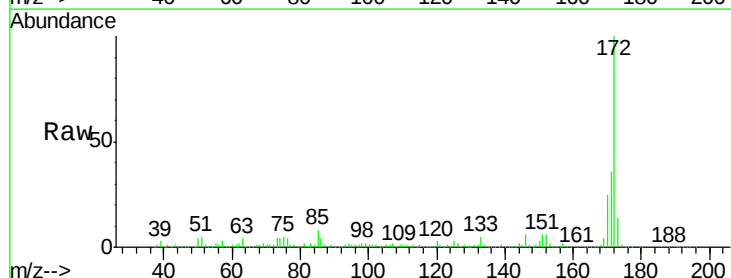
RT: 8.91 min Scan# 632

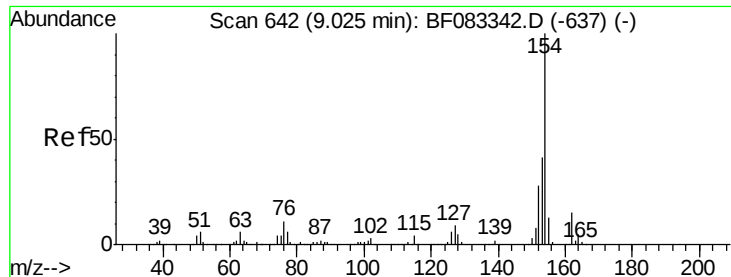
Delta R.T. -0.01 min

Lab File: BF083430.D

Acq: 2 Dec 2015 21:19

Tgt Ion:	172	Resp:	1385818
Ion Ratio	Lower	Upper	
172	100		
171	36.4	29.4	44.0
170	24.6	20.4	30.6





#45

1,1'-Biphenyl

Concen: 36.06 ng

RT: 9.01 min Scan# 641

Delta R.T. -0.01 min

Lab File: BF083430.D

Acq: 2 Dec 2015 21:19

Instrument :

BNA_F

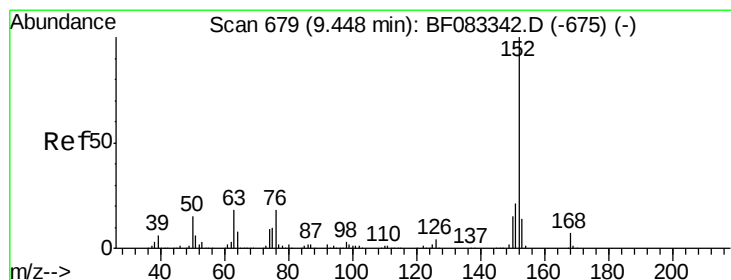
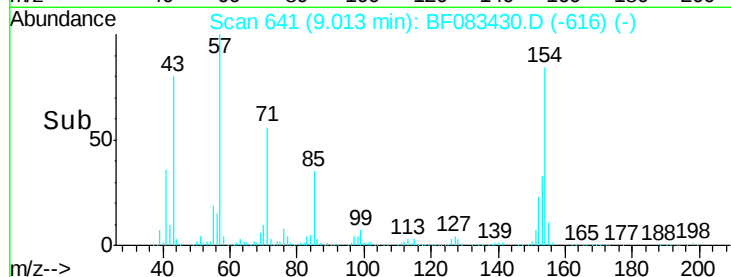
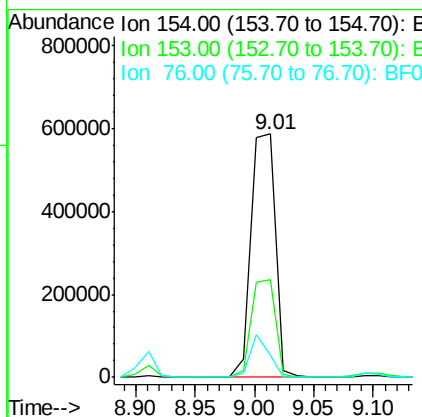
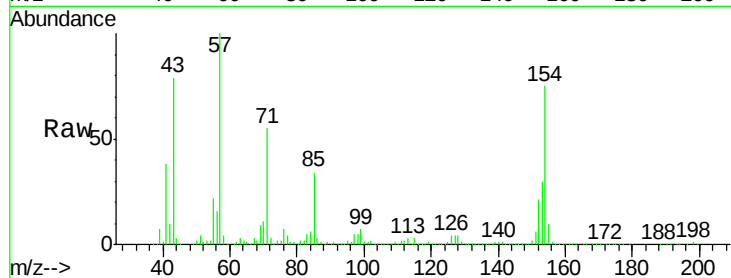
ClientSampleId :

SB-P3WC-16(4-11)

Tot Ion:	154	Resp:	845896
Ion Ratio		Lower	Upper
154	100		
153	40.1	20.6	60.6
76	9.2	0.0	30.5

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#48

Acenaphthylene

Concen: 136.20 ng

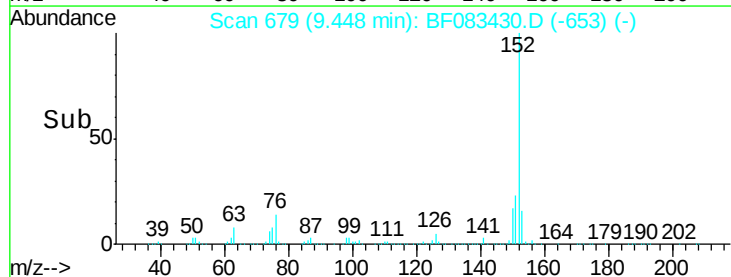
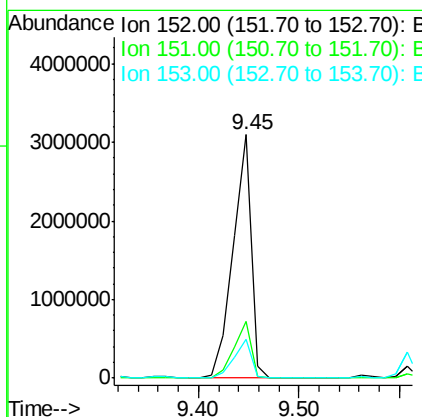
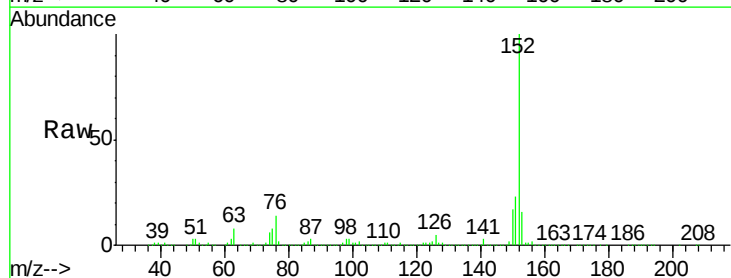
RT: 9.45 min Scan# 679

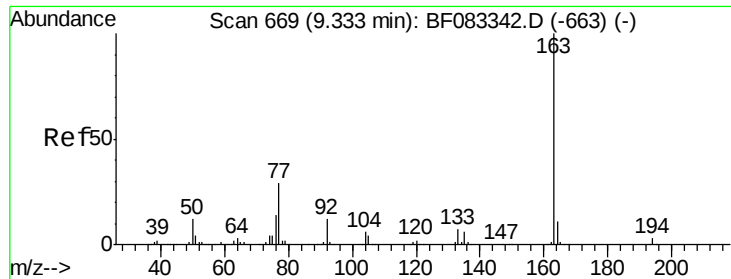
Delta R.T. -0.00 min

Lab File: BF083430.D

Acq: 2 Dec 2015 21:19

Tgt Ion:	152	Resp:	3883444
Ion Ratio		Lower	Upper
152	100		
151	23.4	16.7	25.1
153	15.7	11.2	16.8





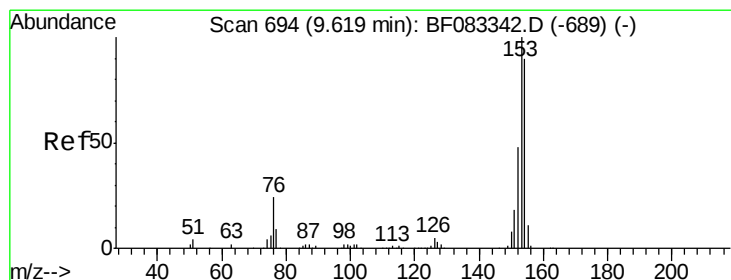
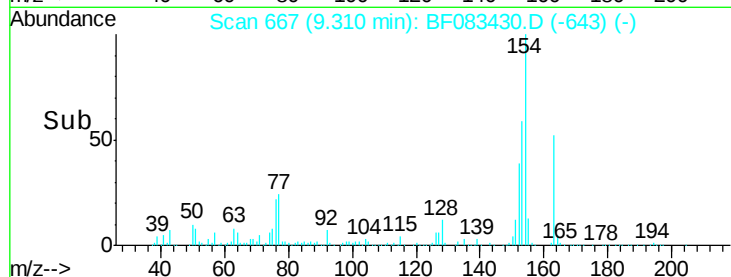
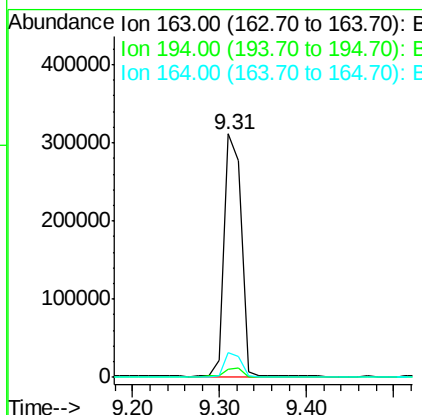
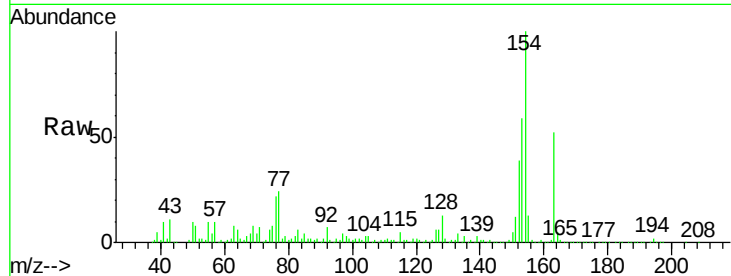
#49
Dimethylphthalate
Concen: 19.57 ng
RT: 9.31 min Scan# 667
Delta R.T. -0.02 min
Lab File: BF083430.D
Acq: 2 Dec 2015 21:19

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-16(4-11)

Tot Ion	Ratio	Resp	Lower	Upper
163	100	425517		
194	3.1		2.7	4.1
164	10.3		8.8	13.2

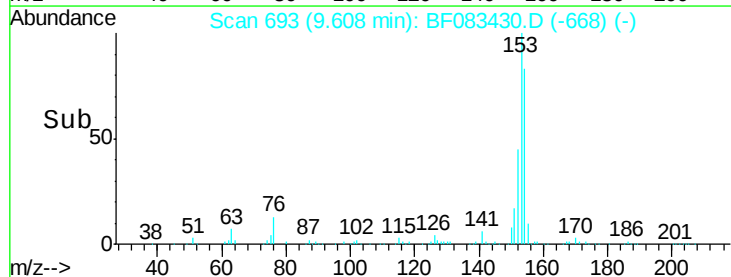
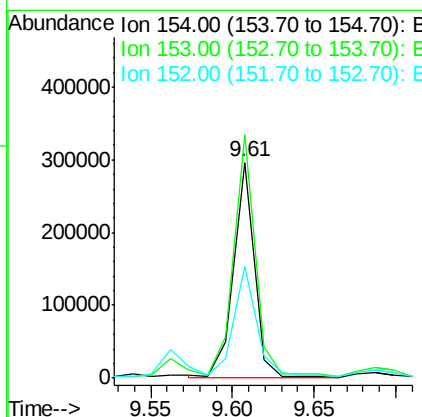
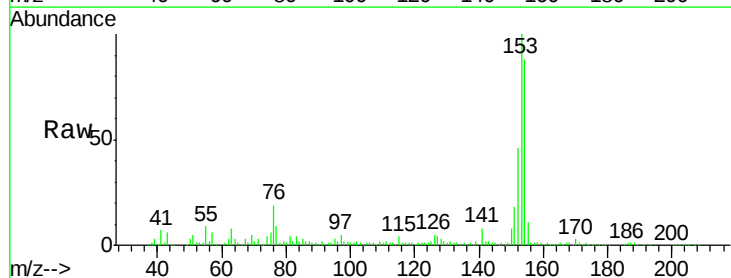
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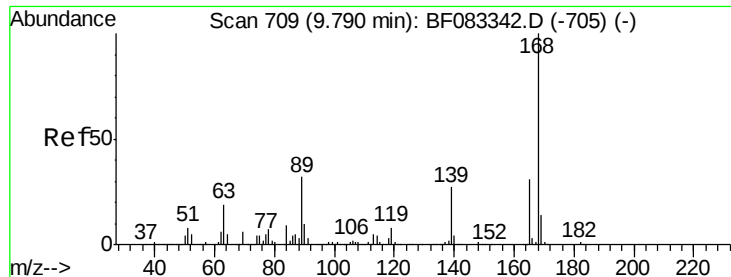
Mmdadoda
12/3/2015 7:09:47 PM



#51
Acenaphthene
Concen: 15.35 ng
RT: 9.61 min Scan# 693
Delta R.T. -0.01 min
Lab File: BF083430.D
Acq: 2 Dec 2015 21:19

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	257486		
153	113.0		89.3	133.9
152	52.2		42.5	63.7





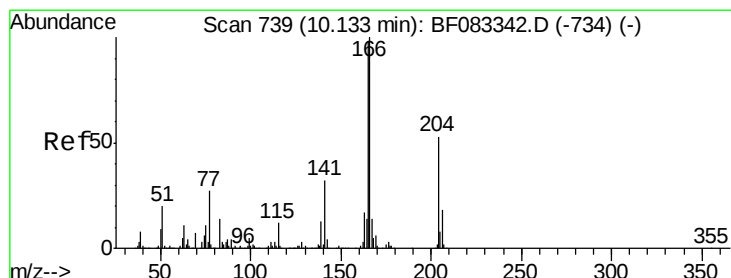
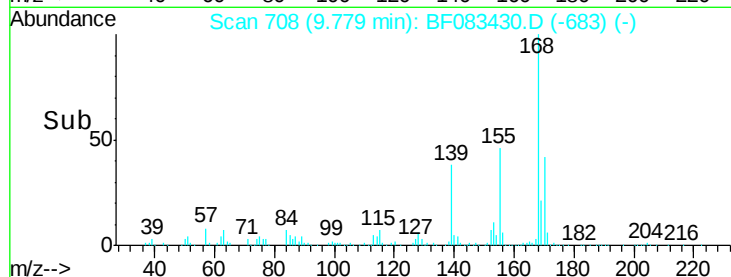
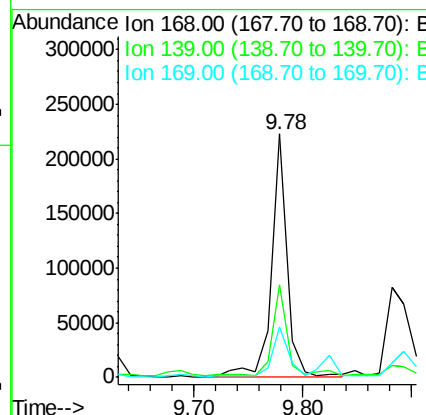
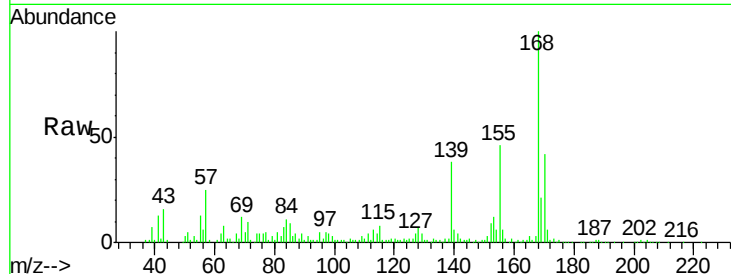
#54
Dibenzofuran
Concen: 9.10 ng
RT: 9.78 min Scan# 708
Delta R.T. -0.01 min
Lab File: BF083430.D
Acq: 2 Dec 2015 21:19

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-16(4-11)

Tot Ion	Ratio	Resp	Lower	Upper
168	100	223669		
139	38.2		32.7	49.1
169	20.7		11.1	16.7#

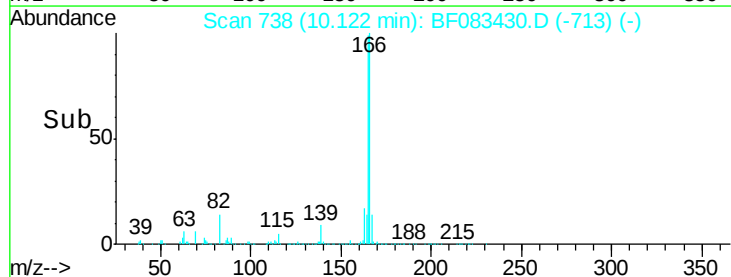
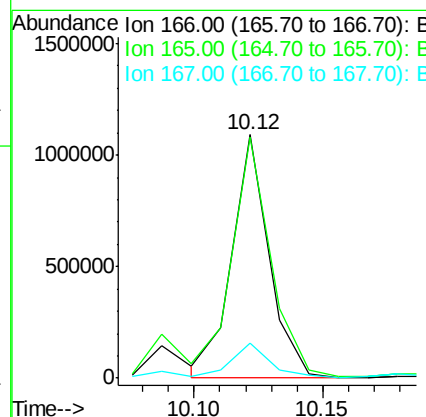
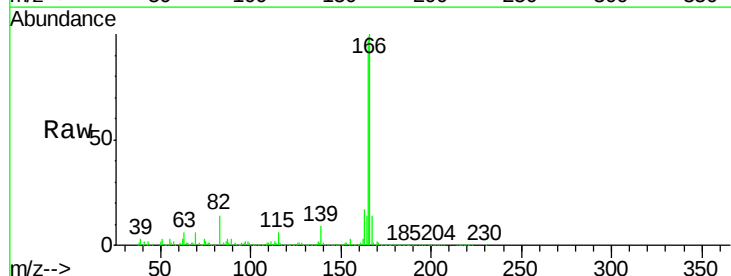
Manual Integrations
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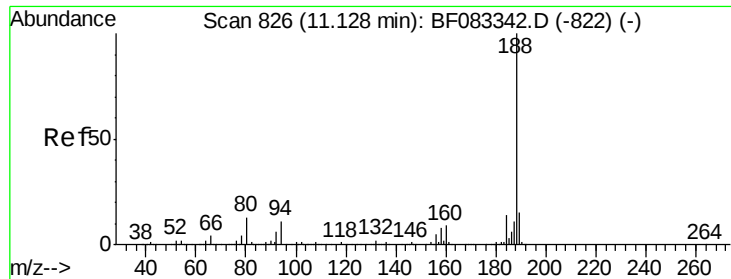
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12/3/2015 7:09:47 PM



#57
Fluorene
Concen: 56.59 ng m
RT: 10.12 min Scan# 738
Delta R.T. -0.01 min
Lab File: BF083430.D
Acq: 2 Dec 2015 21:19

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	1098357		
165	99.2		78.3	117.5
167	14.4		11.1	16.7





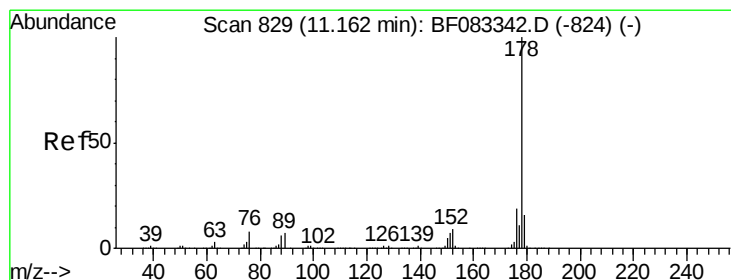
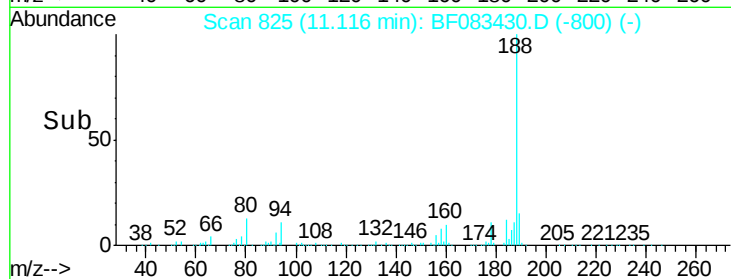
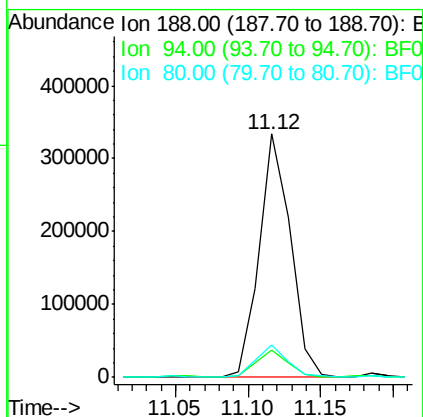
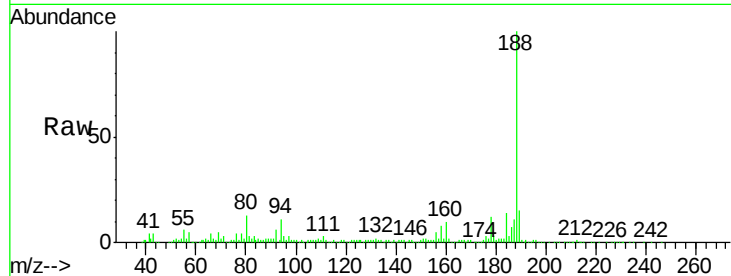
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.12 min Scan# 825
Delta R.T. -0.01 min
Lab File: BF083430.D
Acq: 2 Dec 2015 21:19

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-16(4-11)

Tot Ion	Ratio	Resp	Lower	Upper
188	100	499225		
94	11.1		8.7	13.1
80	13.2		10.3	15.5

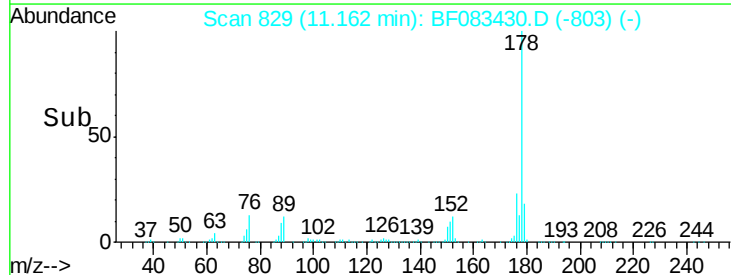
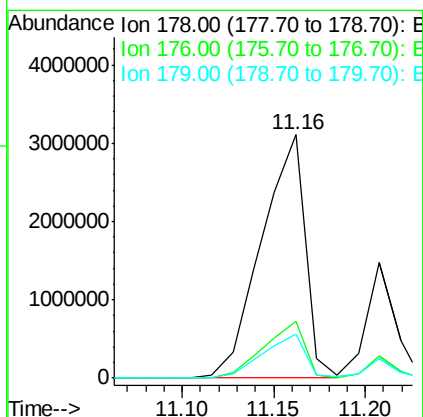
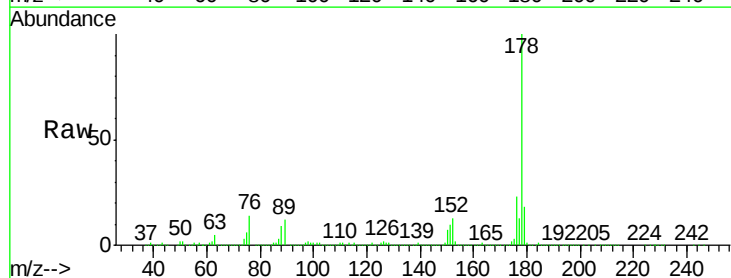
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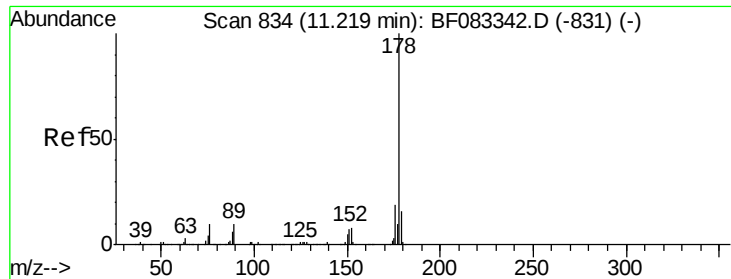
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#70
Phenanthrene
Concen: 174.96 ng m
RT: 11.16 min Scan# 829
Delta R.T. -0.00 min
Lab File: BF083430.D
Acq: 2 Dec 2015 21:19

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	5169106		
176	23.4		15.3	22.9#
179	18.1		12.4	18.6





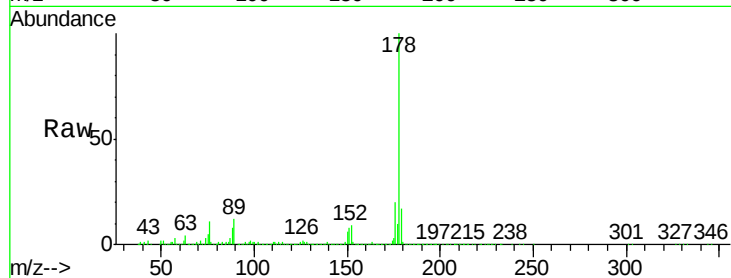
#71
 Anthracene
 Concen: 52.59 ng
 RT: 11.21 min Scan# 833
 Delta R.T. -0.01 min
 Lab File: BF083430.D
 Acq: 2 Dec 2015 21:19

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-16(4-11)

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.6	23.4
179	16.6	12.8	19.2

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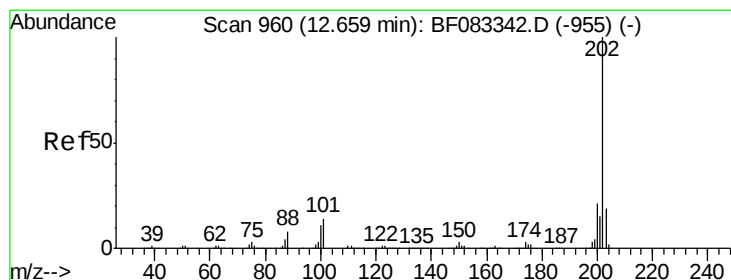
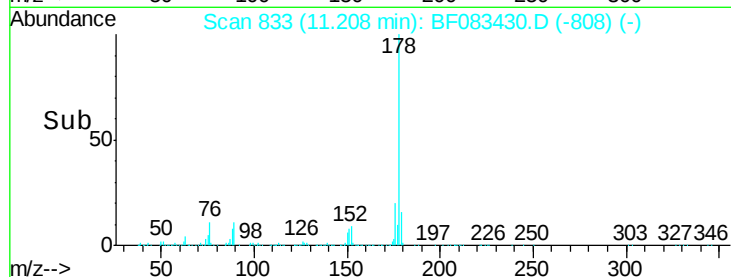
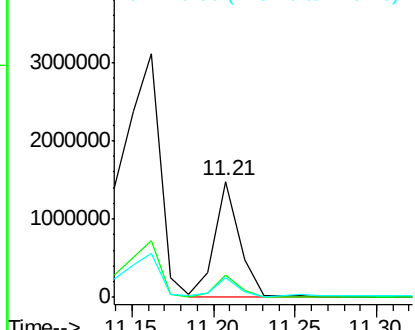


Abundance

Ion 178.00 (177.70 to 178.70): E

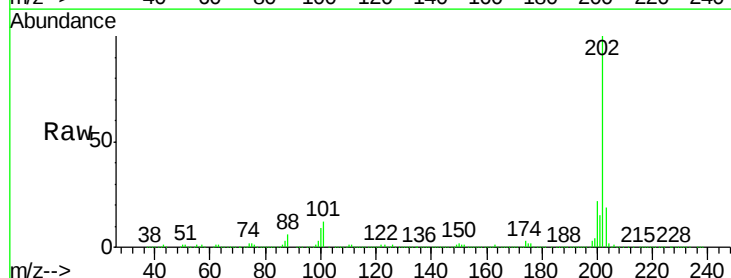
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74
 Fluoranthene
 Concen: 88.98 ng
 RT: 12.66 min Scan# 960
 Delta R.T. -0.00 min
 Lab File: BF083430.D
 Acq: 2 Dec 2015 21:19

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	34.5
203	18.5	0.0	38.7

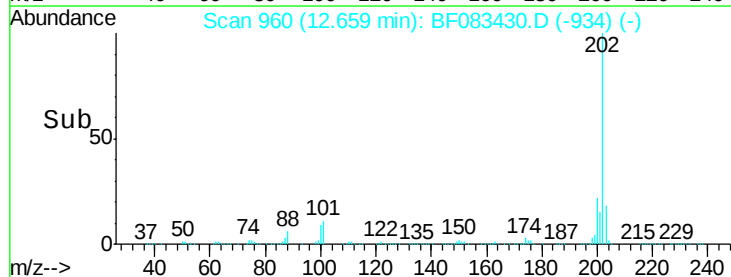
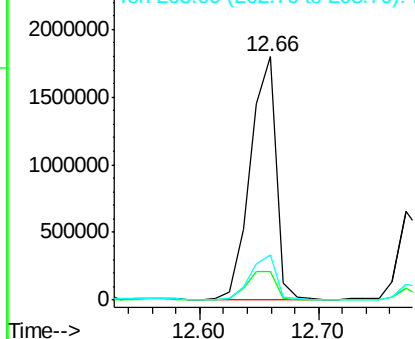


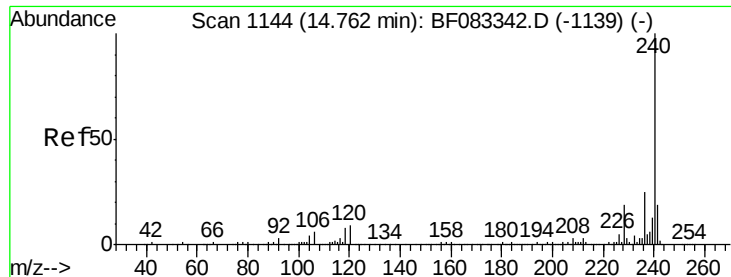
Abundance

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





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.74 min Scan# 1142

Delta R.T. -0.02 min

Lab File: BF083430.D

Acq: 2 Dec 2015 21:19

Instrument :

BNA_F

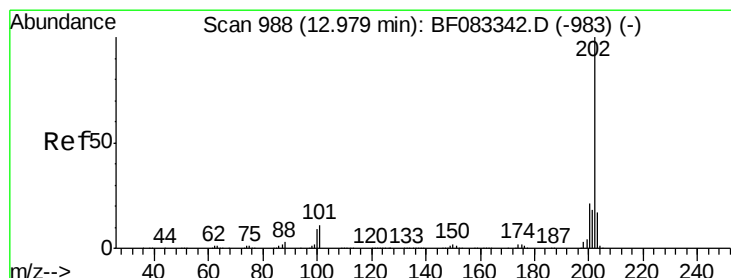
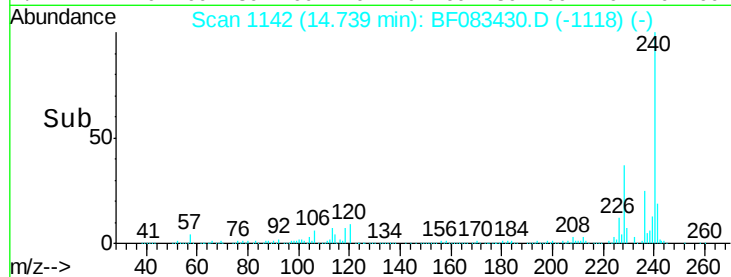
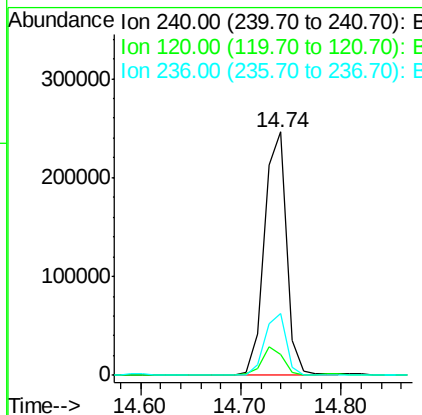
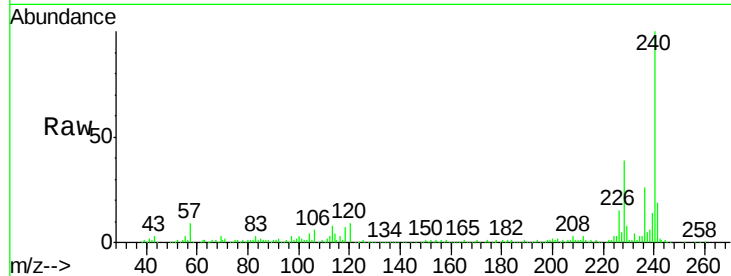
ClientSampleId :

SB-P3WC-16(4-11)

Tot Ion:	240	Resp:	377442
Ion Ratio	Lower	Upper	
240	100		
120	8.8	6.9	10.3
236	25.5	19.8	29.6

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#77

Pyrene

Concen: 132.34 ng

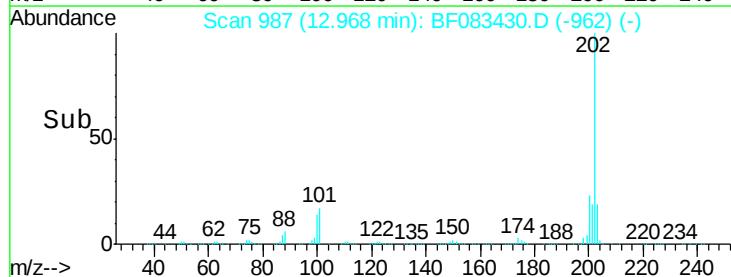
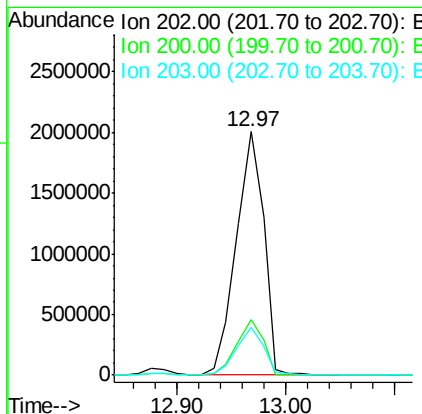
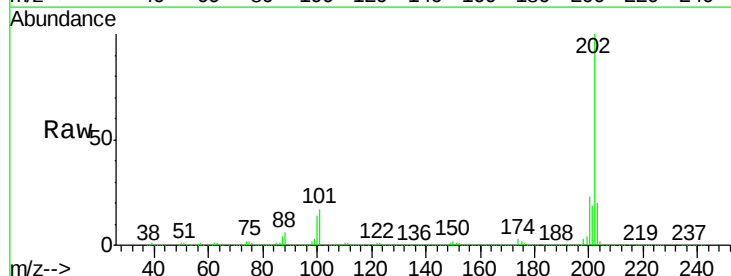
RT: 12.97 min Scan# 987

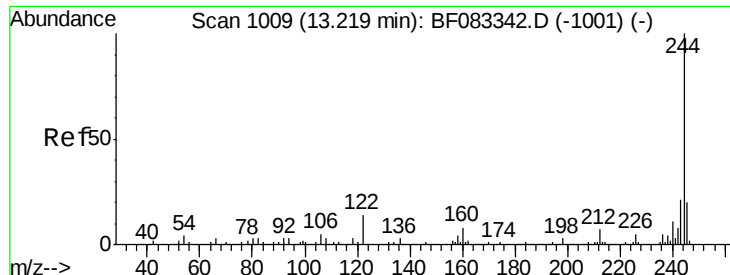
Delta R.T. -0.01 min

Lab File: BF083430.D

Acq: 2 Dec 2015 21:19

Tgt Ion:	202	Resp:	3488342
Ion Ratio	Lower	Upper	
202	100		
200	23.0	16.9	25.3
203	19.7	13.9	20.9





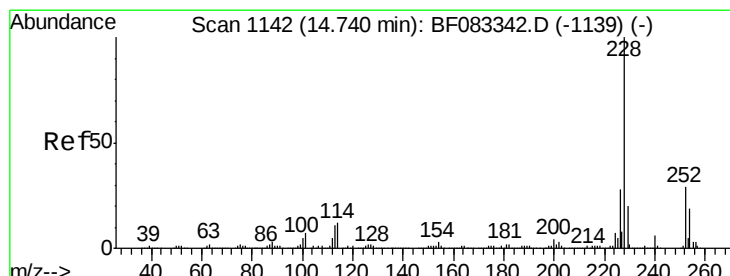
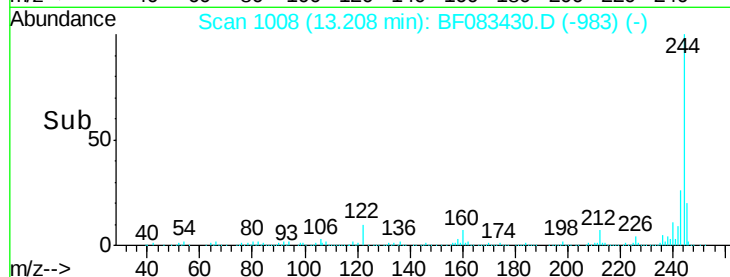
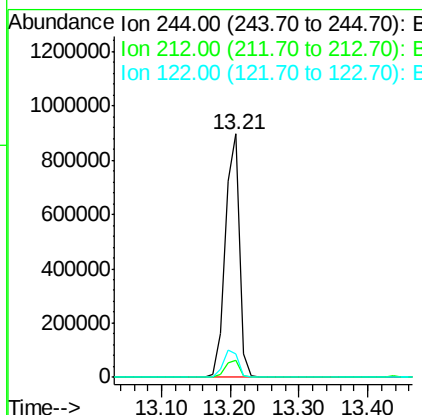
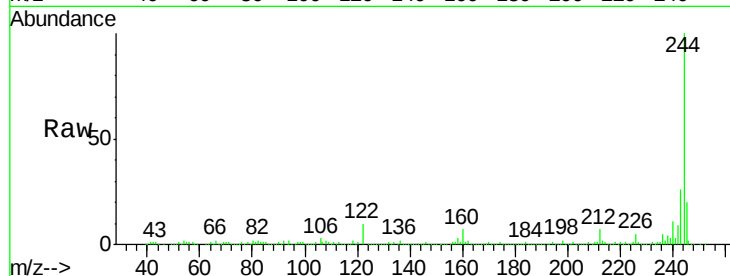
#78
 Terphenyl-d14
 Concen: 82.15 ng
 RT: 13.21 min Scan# 1008
 Delta R.T. -0.01 min
 Lab File: BF083430.D
 Acq: 2 Dec 2015 21:19

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-16(4-11)

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.8	8.8
122	9.8	11.0	16.4

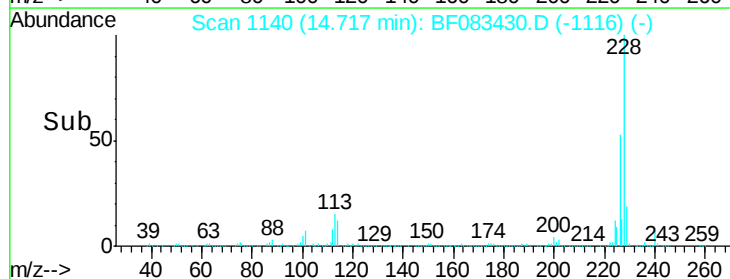
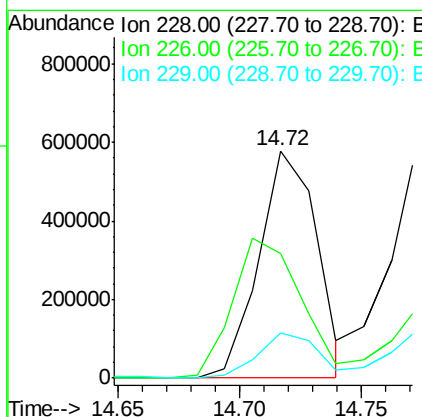
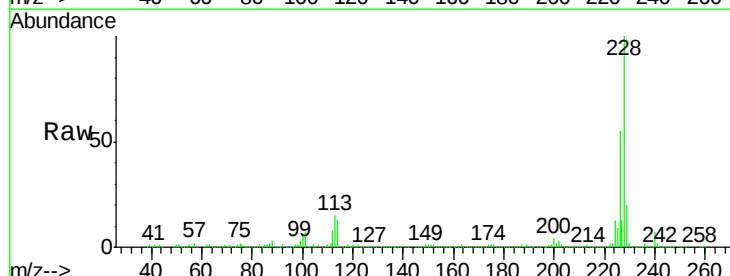
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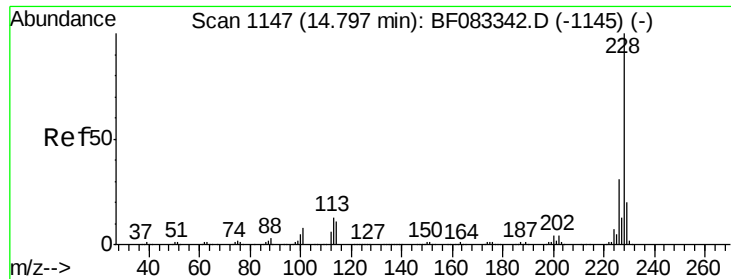
Mmdadoda
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#80
 Benzo(a)anthracene
 Concen: 41.41 ng m
 RT: 14.72 min Scan# 1140
 Delta R.T. -0.02 min
 Lab File: BF083430.D
 Acq: 2 Dec 2015 21:19

Tgt Ion	Ratio	Lower	Upper
228	100		
226	54.7	22.2	33.4
229	20.1	16.1	24.1





#82

Chrvsene

Concen: 37.79 ng

RT: 14.77 min Scan# 1145

Delta R.T. -0.02 min

Lab File: BF083430.D

Acq: 2 Dec 2015 21:19

Instrument :

BNA_F

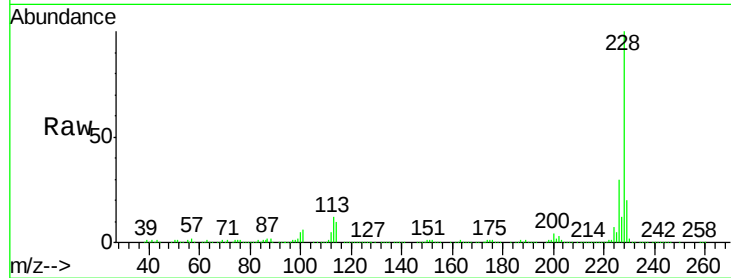
ClientSampleId :

SB-P3WC-16(4-11)

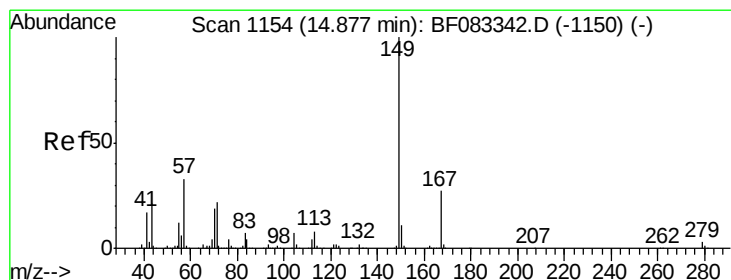
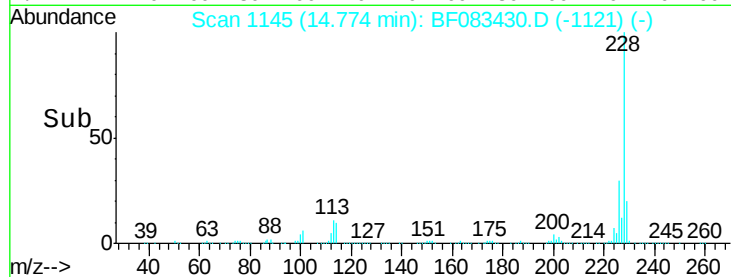
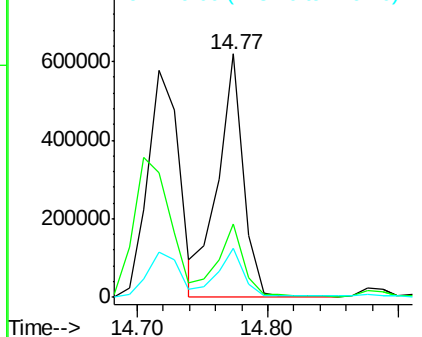
Tot Ion:	228	Resp:	844351
Ion Ratio	Lower	Upper	
228	100		
226	29.9	24.6	37.0
229	20.1	16.2	24.2

Manual Integrations
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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



#83

Bis(2-ethylhexyl)phthalate

Concen: 4.52 ng

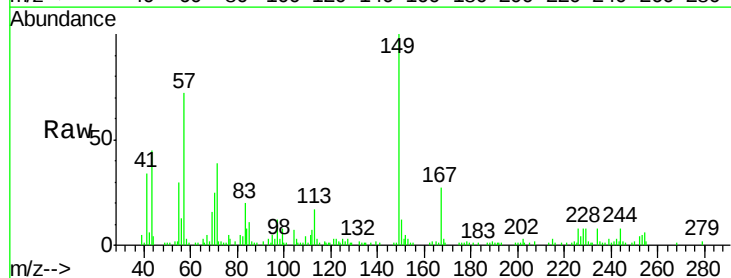
RT: 14.84 min Scan# 1151

Delta R.T. -0.03 min

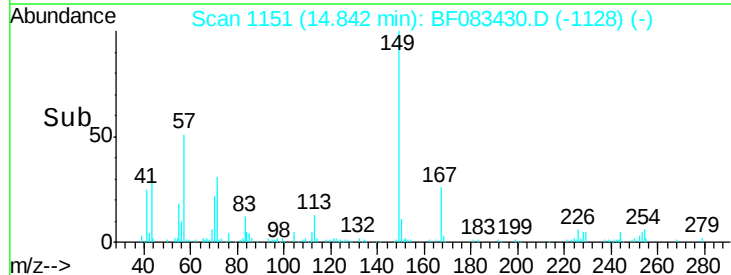
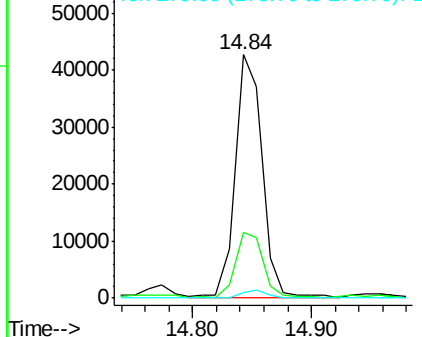
Lab File: BF083430.D

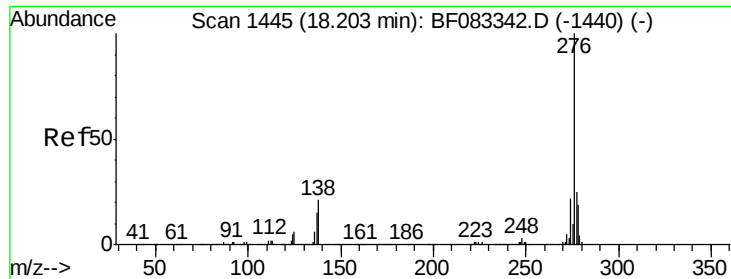
Acq: 2 Dec 2015 21:19

Tgt Ion:	149	Resp:	67864
Ion Ratio	Lower	Upper	
149	100		
167	26.9	21.5	32.3
279	2.1	2.6	3.8#



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E





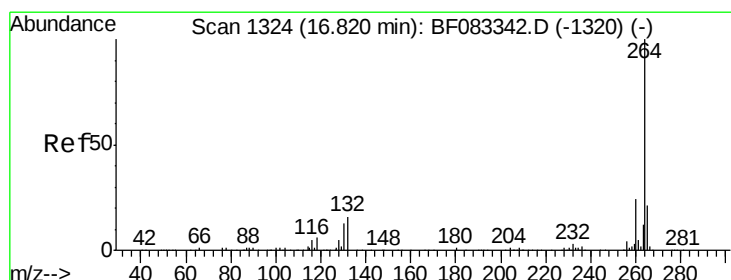
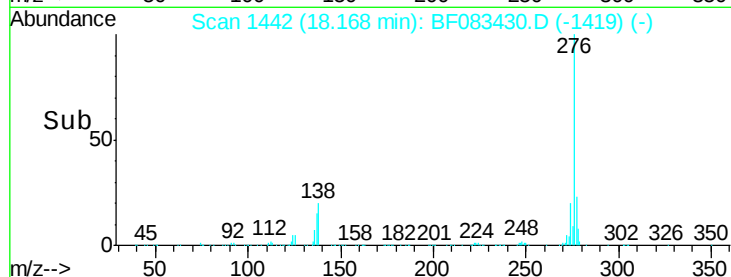
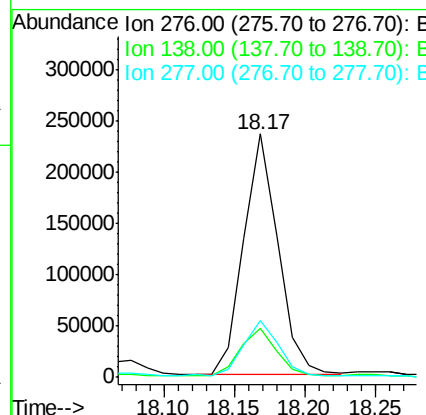
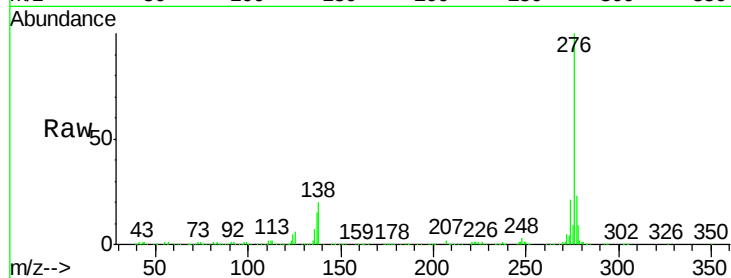
#85
Indeno(1,2,3-cd)pyrene
Concen: 24.51 ng/ml
RT: 18.17 min Scan# 1442
Delta R.T. -0.03 min
Lab File: BF083430.D
Acq: 2 Dec 2015 21:19

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-16(4-11)

Tot Ion	Ratio	Lower	Upper
276	100		
138	6.1	21.2	31.8#
277	7.3	20.0	30.0#

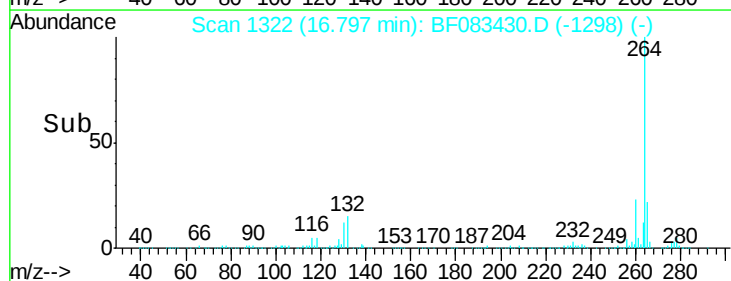
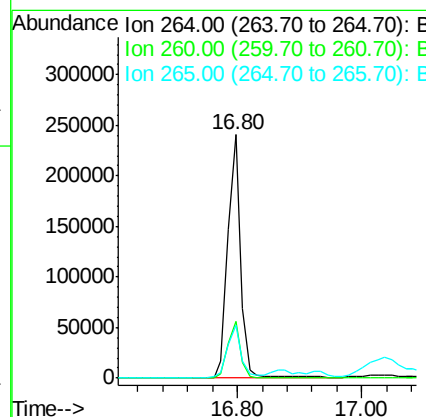
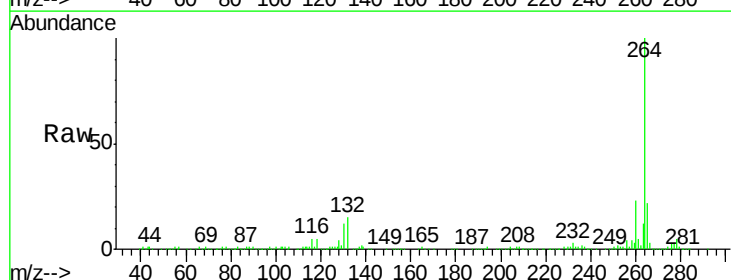
Manual Integrations
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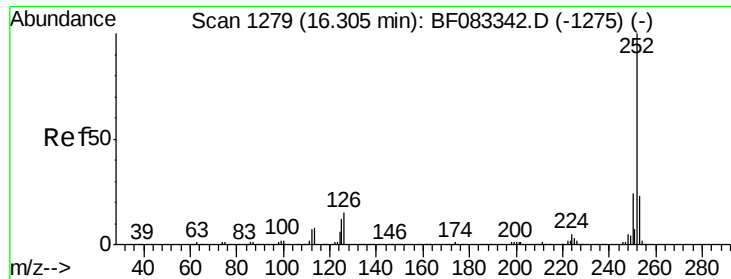
Mmdadoda
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#86
Perylene-d12
Concen: 20.00 ng
RT: 16.80 min Scan# 1322
Delta R.T. -0.02 min
Lab File: BF083430.D
Acq: 2 Dec 2015 21:19

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.0	28.4
265	22.0	16.8	25.2





#87

Benzo(b)fluoranthene

Concen: 32.22 ng m

RT: 16.28 min Scan# 1277

Delta R.T. -0.02 min

Lab File: BF083430.D

Acq: 2 Dec 2015 21:19

Instrument :

BNA_F

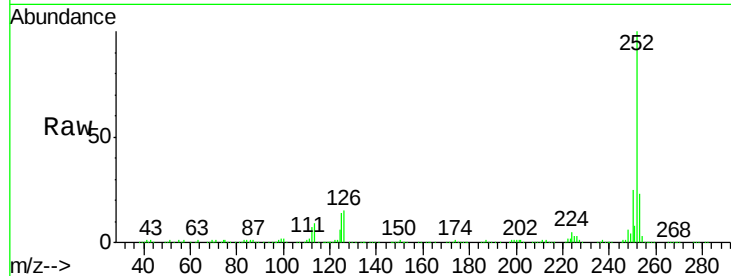
ClientSampleId :

SB-P3WC-16(4-11)

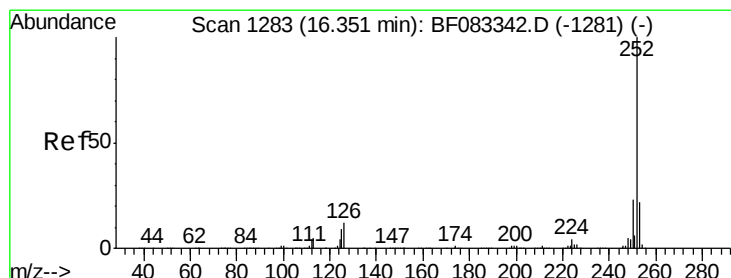
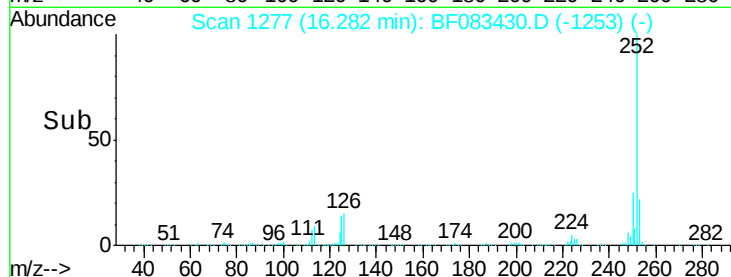
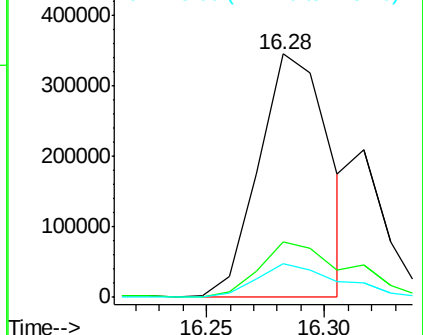
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.4	27.6
125	13.8	9.6	14.4

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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: 10.27 ng m

RT: 16.32 min Scan# 1280

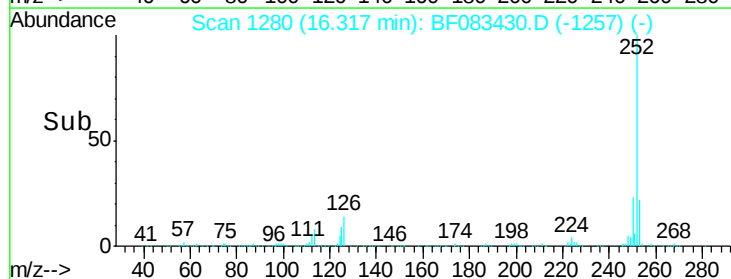
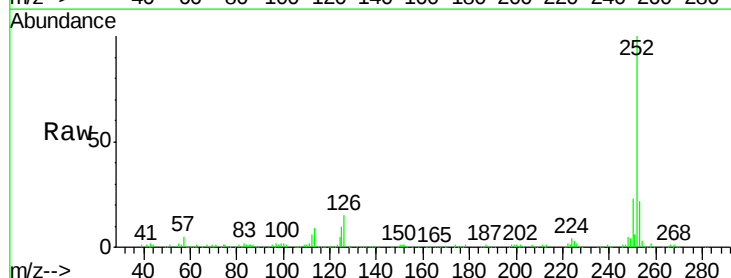
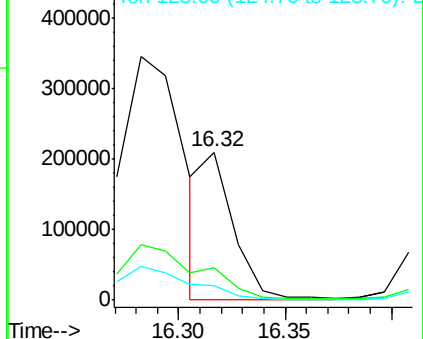
Delta R.T. -0.03 min

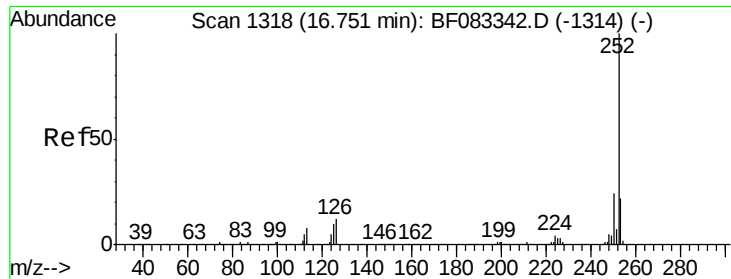
Lab File: BF083430.D

Acq: 2 Dec 2015 21:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.4	26.0
125	9.5	7.5	11.3

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





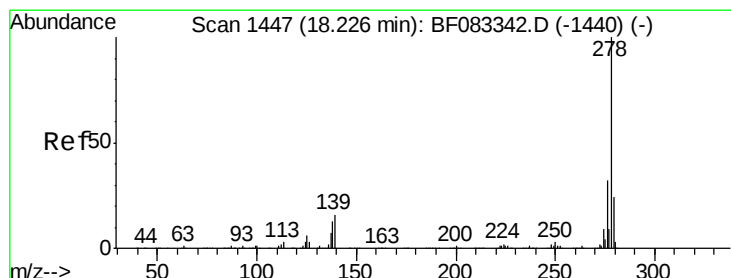
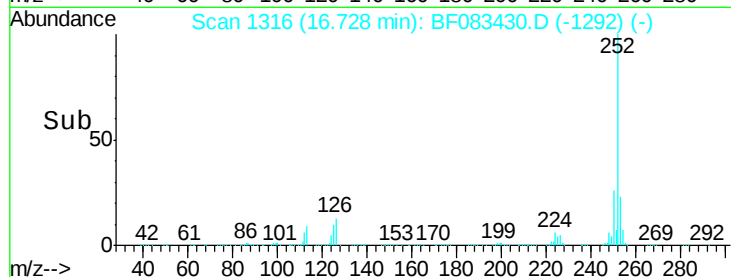
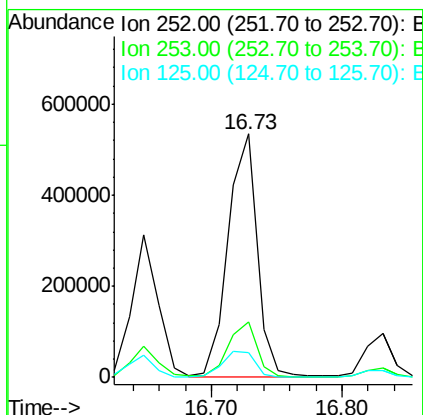
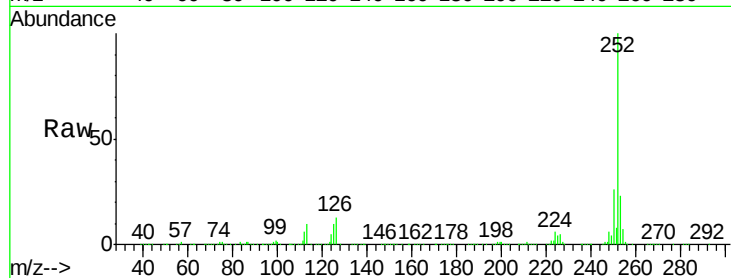
#89
Benzo(a)pyrene
Concen: 43.59 ng
RT: 16.73 min Scan# 1316
Delta R.T. -0.02 min
Lab File: BF083430.D
Acq: 2 Dec 2015 21:19

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-16(4-11)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.5	26.3
125	10.3	7.8	11.8

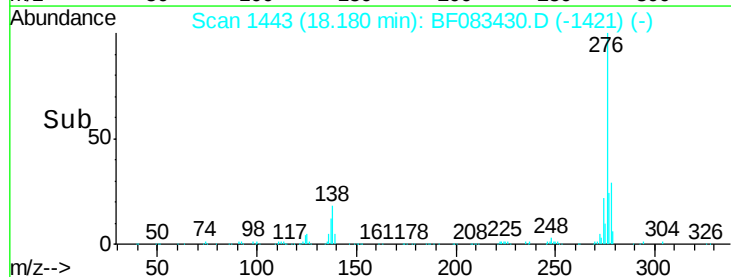
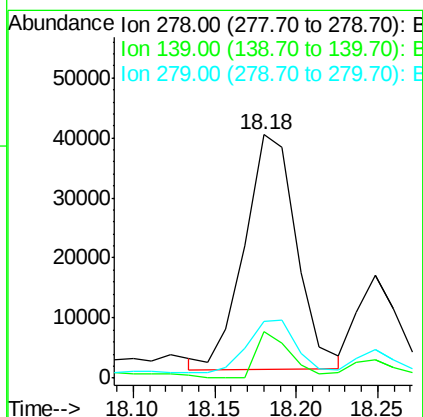
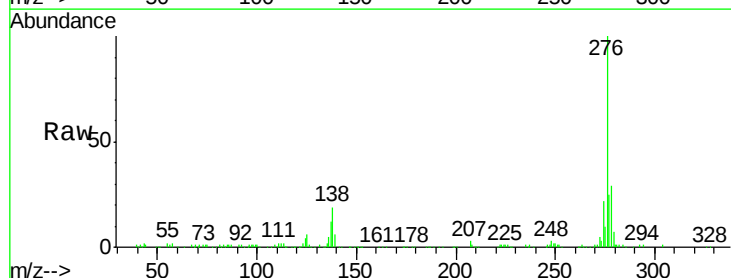
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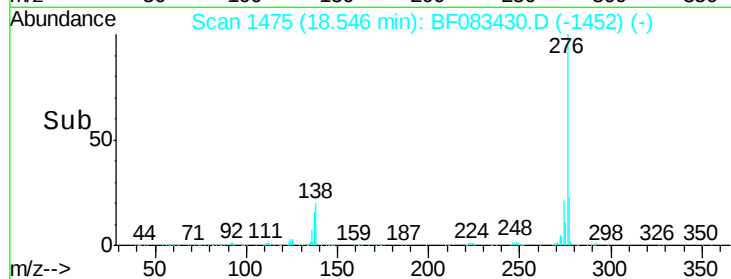
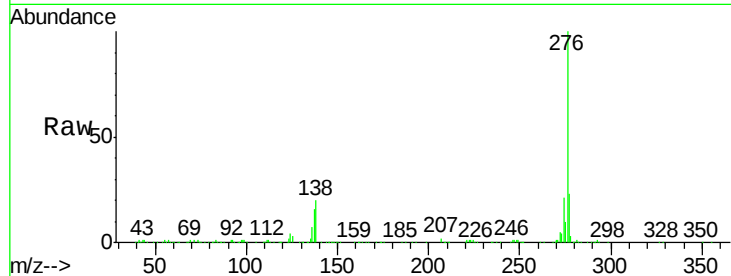
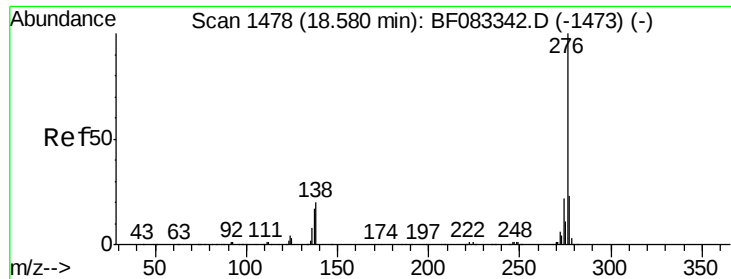
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#90
Dibenzo(a,h)anthracene
Concen: 5.22 ng
RT: 18.18 min Scan# 1443
Delta R.T. -0.05 min
Lab File: BF083430.D
Acq: 2 Dec 2015 21:19

Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.3	13.1	19.7
279	23.6	19.2	28.8





#91
 Benzo(a,h,i)perylene
 Concen: 27.57 ng
 RT: 18.55 min Scan# 1475
 Delta R.T. -0.03 min
 Lab File: BF083430.D
 Acq: 2 Dec 2015 21:19

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-16(4-11)

Tot Ion	Ratio	Lower	Upper
276	100		
277	22.9	18.6	28.0
138	19.8	16.1	24.1

Manual Integrations
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