

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052516\
 Data File : BF087376.D
 Acq On : 25 May 2016 17:18
 Operator : UM/SJ
 Sample : H3218-06
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E-4(12.5-13)

Manual Integrations
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Quant Time: May 25 23:12:33 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 25 22:35:30 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.52	152	109135	20.00	ng	0.00
21) Naphthalene-d8	9.54	136	429308	20.00	ng	-0.01
38) Acenaphthene-d10	12.38	164	188242	20.00	ng	-0.01
63) Phenanthrene-d10	14.78	188	289929	20.00	ng	0.00
75) Chrysene-d12	18.47	240	225141	20.00	ng	-0.01
86) Perylene-d12	20.14	264	186202	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	949536	152.88	ng	0.01
7) Phenol-d6	7.06	99	1204659	143.54	ng	-0.01
23) Nitrobenzene-d5	8.43	82	750698	88.13	ng	-0.01
41) 2,4,6-Tribromophenol	13.67	330	215326	119.03	ng	-0.01
44) 2-Fluorobiphenyl	11.32	172	949942	71.14	ng	-0.01
78) Terphenyl-d14	17.13	244	659726	62.30	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	9.58	128	430735	20.02	ng	99
37) 2-Methylnaphthalene	10.71	142	111373	8.29	ng	97
45) 1,1'-Biphenyl	11.47	154	135843	8.57	ng	98
48) Acenaphthylene	12.15	152	114817	5.98	ng	# 90
49) Dimethylphthalate	12.02	163	419326	27.81	ng	100
51) Acenaphthene	12.43	154	527725	44.73	ng	97
54) Dibenzofuran	12.72	168	86394	5.41	ng	93
57) Fluorene	13.27	166	353706	25.53	ng	99
70) Phenanthrene	14.82	178	1663656	103.59	ng	99
71) Anthracene	14.90	178	517382	31.89	ng	99
72) Carbazole	15.19	167	30825	2.23	ng	# 90
74) Fluoranthene	16.57	202	567699	35.25	ng	98
77) Pvrene	16.88	202	801248	49.44	ng	99
80) Benzo(a)anthracene	18.46	228	266529m	20.81	ng	
82) Chrysene	18.50	228	213525	16.80	ng	98
85) Indeno(1,2,3-cd)pyrene	21.37	276	52107	5.11	ng	# 90
87) Benzo(b)fluoranthene	19.74	252	154773m	13.05	ng	
88) Benzo(k)fluoranthene	19.76	252	55614m	5.45	ng	
89) Benzo(a)pvrene	20.08	252	157777	15.38	ng	98
91) Benzo(a,h,i)perylene	21.73	276	54797	6.35	ng	93

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

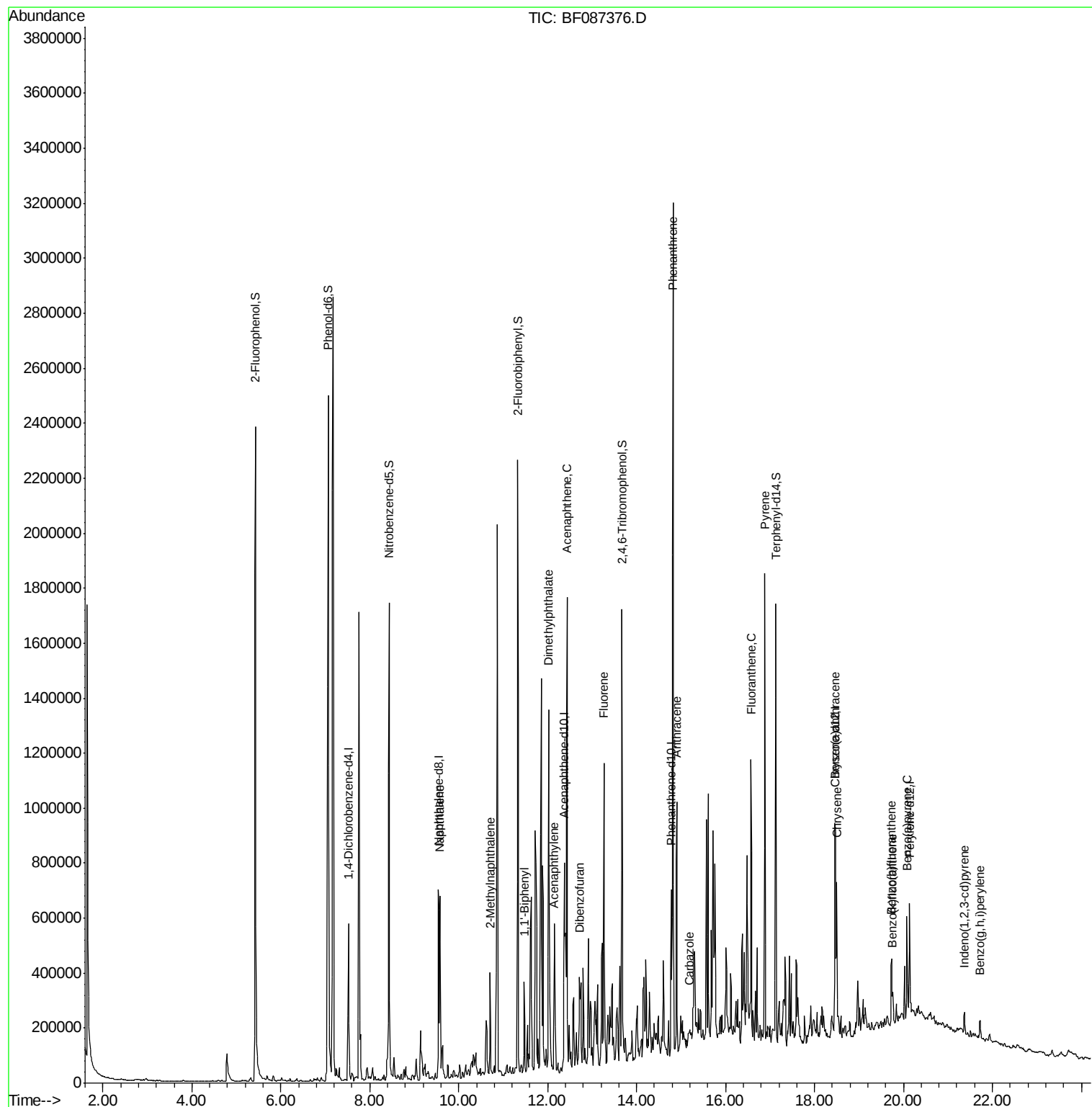
Data Path : Z:\HPCHEM1\BNA F\DATA\BF052516\
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ALS Vial : 11 Sample Multiplier: 1

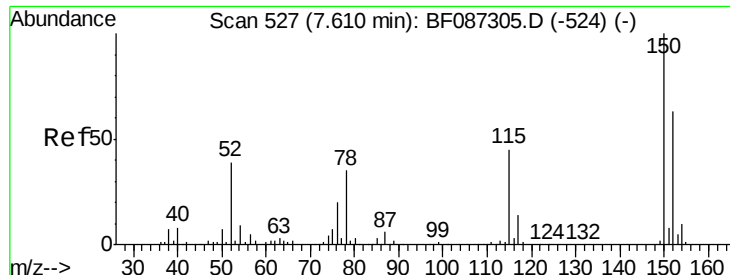
Instrument :
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E-4(12.5-13)

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#1

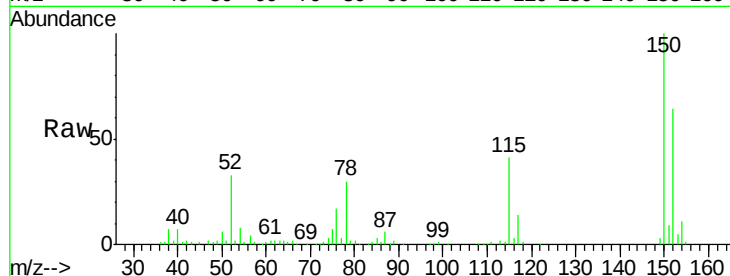
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.52 min Scan# 519
Delta R.T. 0.00 min
Lab File: BF087376.D
Acq: 25 May 2016 17:18

Instrument :
BNA_F
ClientSampleId :
E-4(12.5-13)

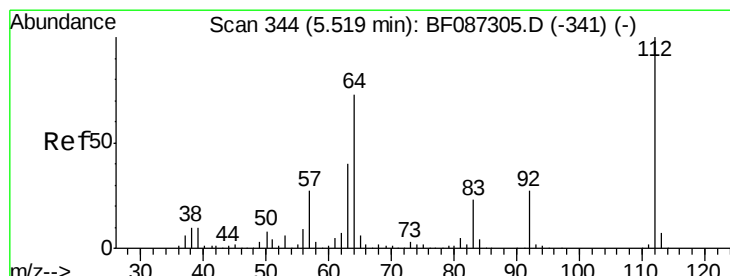
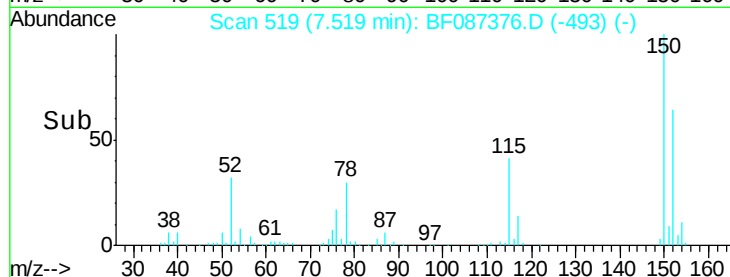
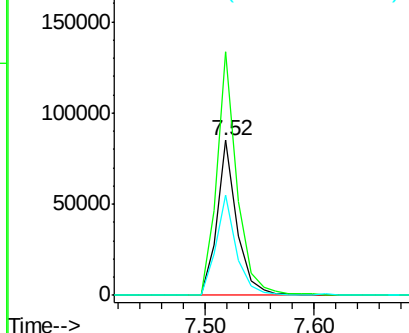
Tot Ion	Ratio	Resp	Lower	Upper
152	100	109135		
150	156.9	125.8	188.6	
115	65.0	51.5	77.3	

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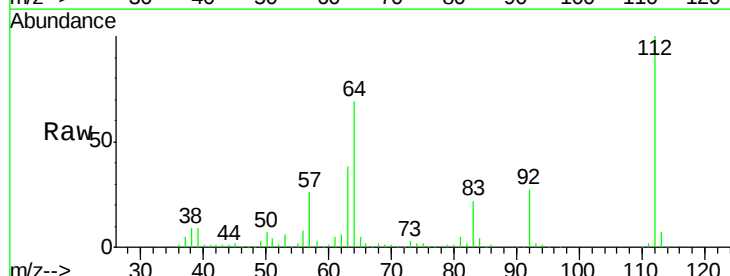
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



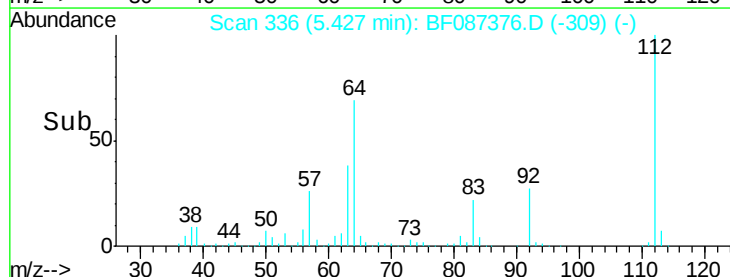
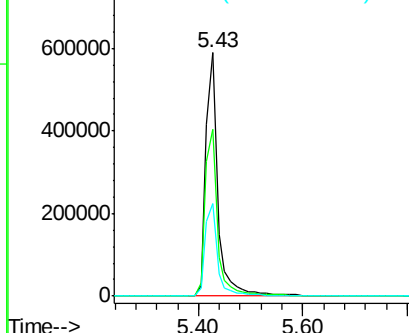
#5

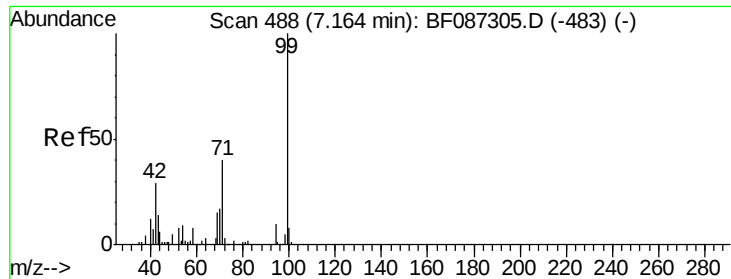
2-Fluorophenol
Concen: 152.88 ng
RT: 5.43 min Scan# 336
Delta R.T. 0.01 min
Lab File: BF087376.D
Acq: 25 May 2016 17:18

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	949536		
64	68.7	52.1	78.1	
63	37.9	25.7	38.5	



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: 143.54 ng

RT: 7.06 min Scan# 479

Delta R.T. -0.01 min

Lab File: BF087376.D

Acq: 25 May 2016 17:18

Instrument :

BNA_F

ClientSampleId :

E-4(12.5-13)

Tot Ion: 99 Resp: 1204659

Ion Ratio Lower Upper

99 100

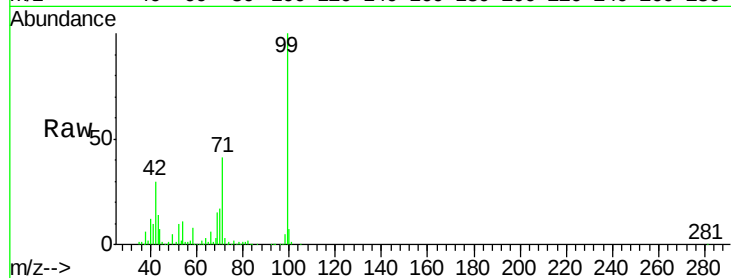
42 30.2 13.6 20.4#

71 41.4 24.6 36.8#

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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

1000000

800000

600000

400000

200000

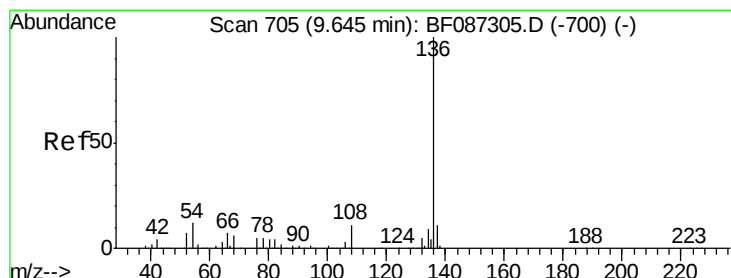
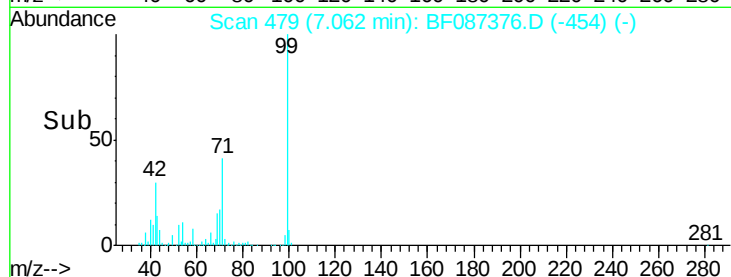
0

7.06

7.20

7.40

Time-->



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.54 min Scan# 696

Delta R.T. -0.01 min

Lab File: BF087376.D

Acq: 25 May 2016 17:18

Tgt Ion: 136 Resp: 429308

Ion Ratio Lower Upper

136 100

137 11.3 8.8 13.2

54 13.6 5.0 7.4#

68 6.6 4.4 6.6

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

400000

300000

200000

100000

0

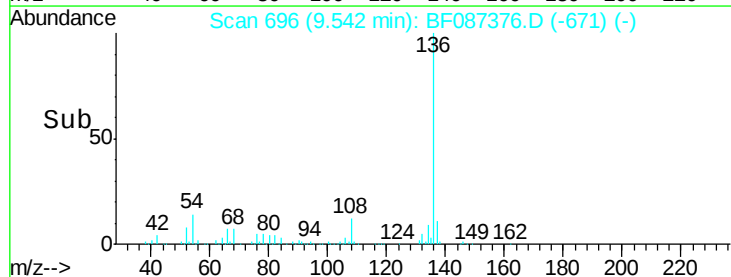
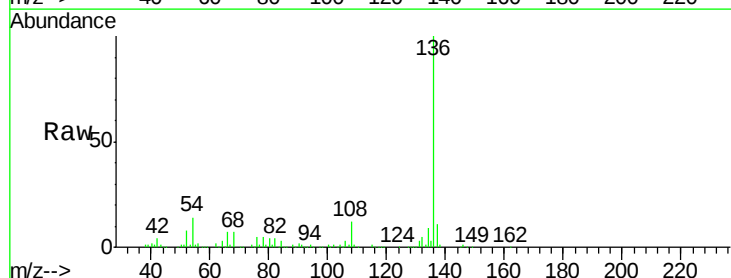
9.54

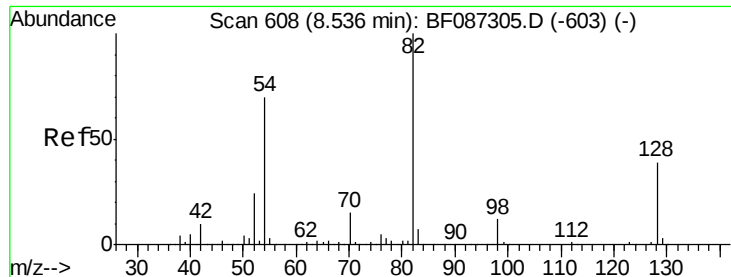
9.60

9.70

9.80

Time-->





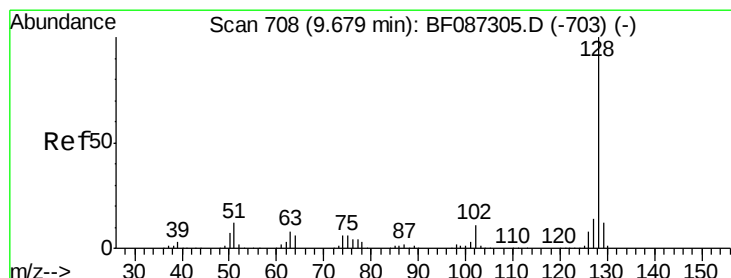
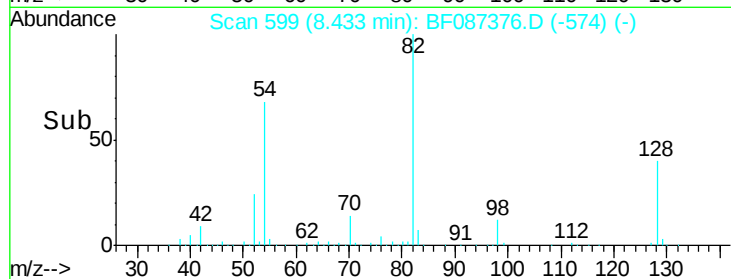
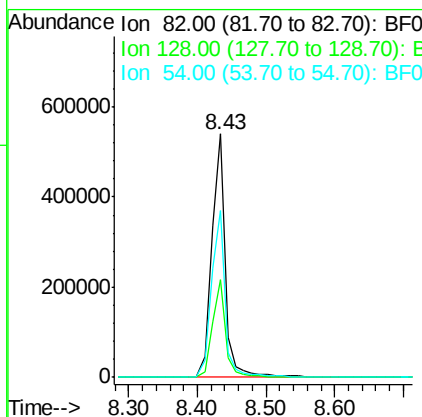
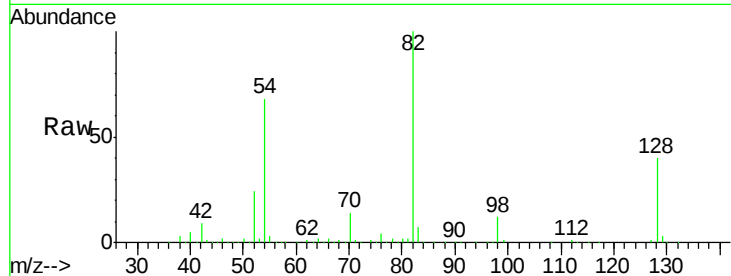
#23
 Nitrobenzene-d5
 Concen: 88.13 ng
 RT: 8.43 min Scan# 599
 Delta R.T. -0.01 min
 Lab File: BF087376.D
 Acq: 25 May 2016 17:18

Instrument :
 BNA_F
 ClientSampleId :
 E-4(12.5-13)

Tot Ion	Ratio	Resp	Lower	Upper
82	100	750698		
128	40.0		40.6	61.0#
54	68.3		38.1	57.1#

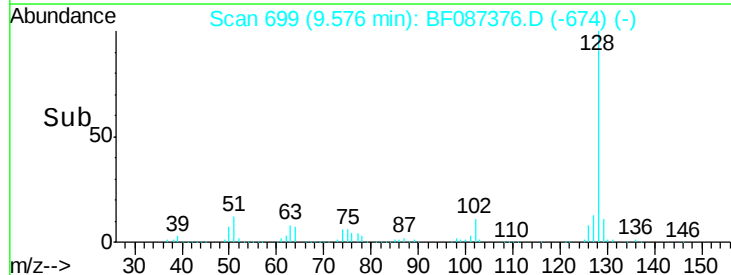
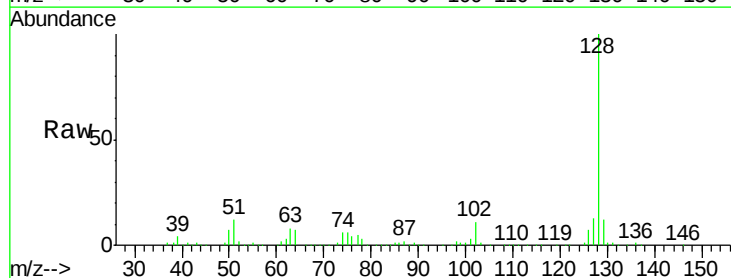
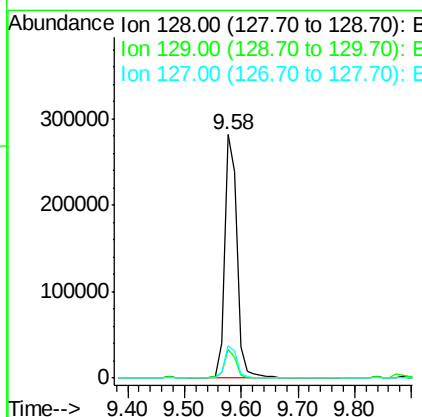
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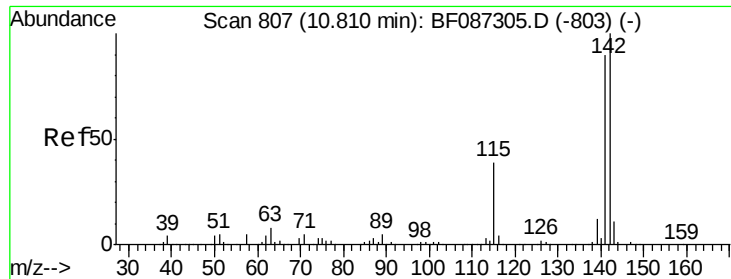
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#31
 Naphthalene
 Concen: 20.02 ng
 RT: 9.58 min Scan# 699
 Delta R.T. -0.01 min
 Lab File: BF087376.D
 Acq: 25 May 2016 17:18

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	430735		
129	11.6		8.6	13.0
127	13.1		10.8	16.2





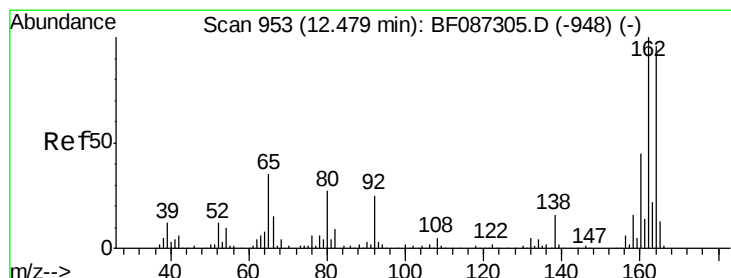
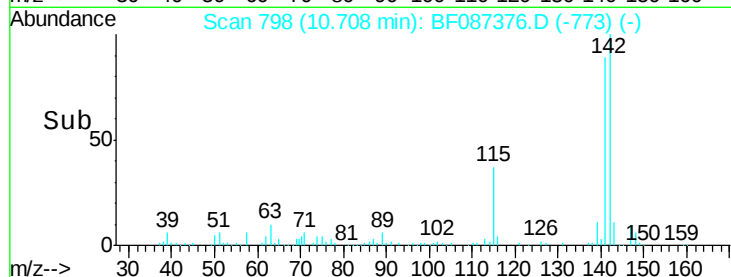
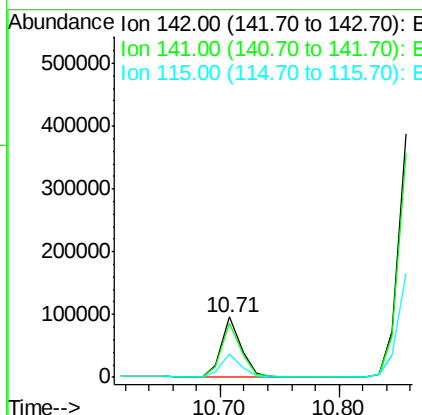
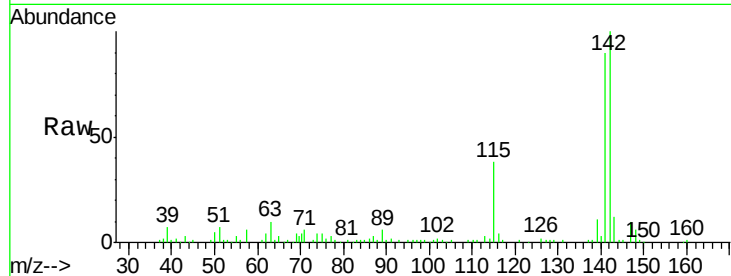
#37
2-Methylnaphthalene
Concen: 8.29 ng
RT: 10.71 min Scan# 798
Delta R.T. -0.01 min
Lab File: BF087376.D
Acq: 25 May 2016 17:18

Instrument :
BNA_F
ClientSampled :
E-4(12.5-13)

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.6	71.0	106.6
115	38.4	26.6	39.8

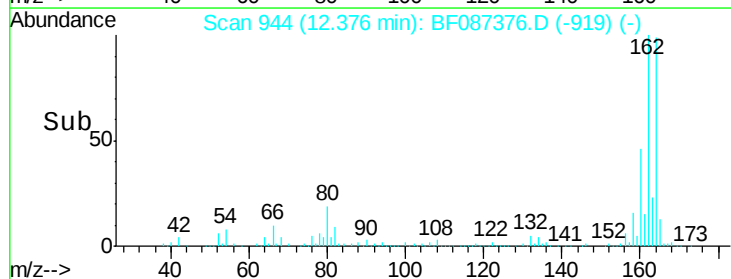
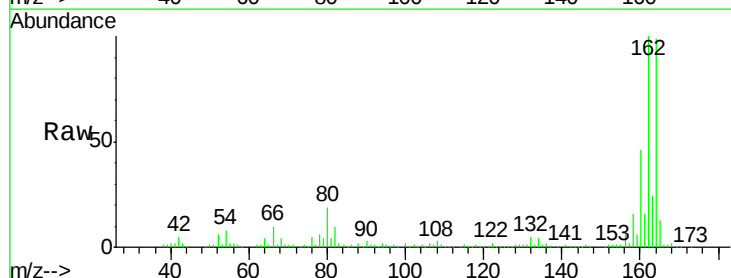
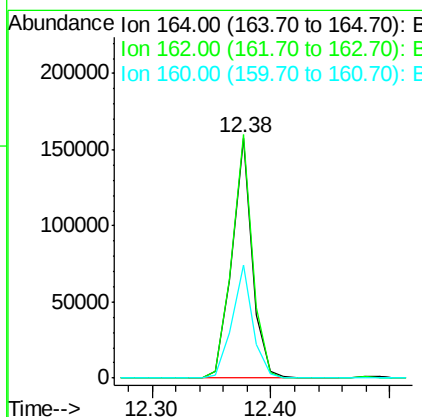
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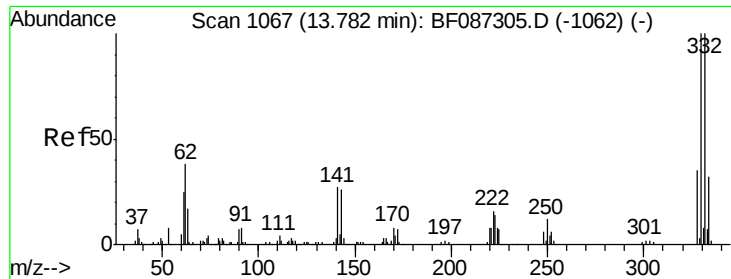
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.38 min Scan# 944
Delta R.T. -0.01 min
Lab File: BF087376.D
Acq: 25 May 2016 17:18

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.4	82.8	124.2
160	46.9	36.9	55.3





#41

2,4,6-Tribromophenol

Concen: 119.03 ng

RT: 13.67 min Scan# 1057

Delta R.T. -0.01 min

Lab File: BF087376.D

Acq: 25 May 2016 17:18

Instrument :

BNA_F

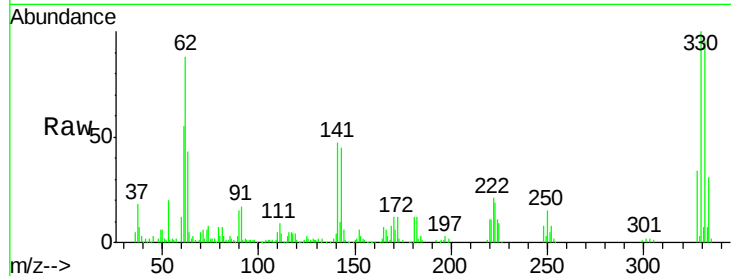
ClientSampleId :

E-4(12.5-13)

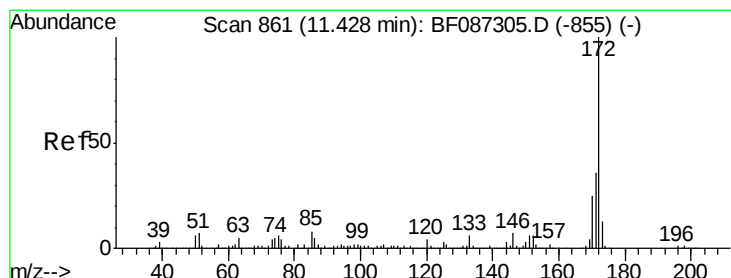
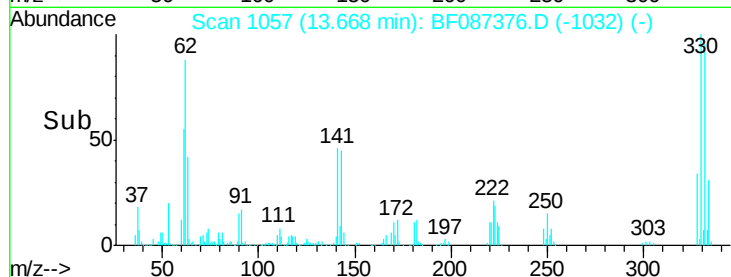
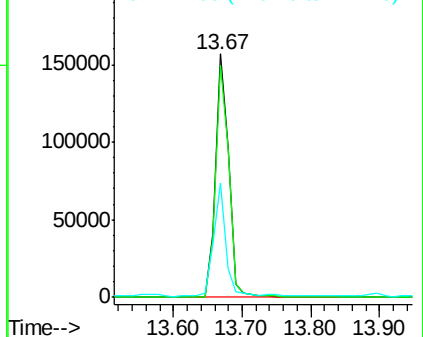
Tot Ion:	330	Resp:	215326
Ion Ratio	Lower	Upper	
330	100		
332	96.3	79.0	118.4
141	42.4	31.2	46.8

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



#44

2-Fluorobiphenyl

Concen: 71.14 ng

RT: 11.32 min Scan# 852

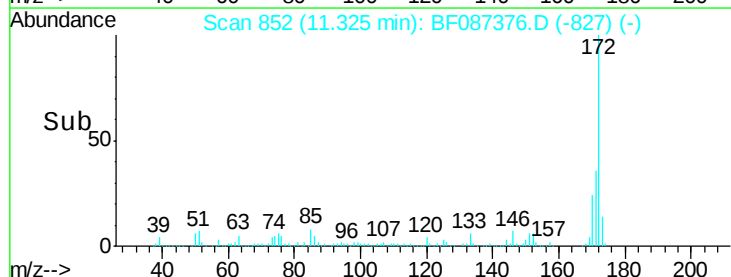
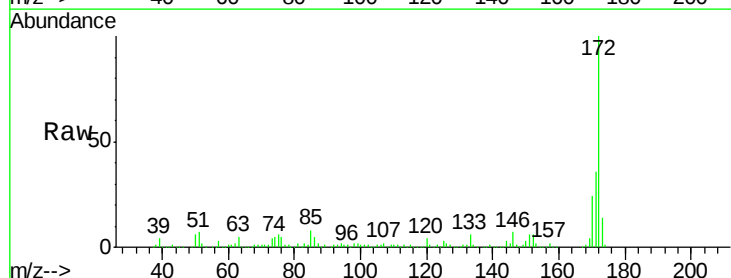
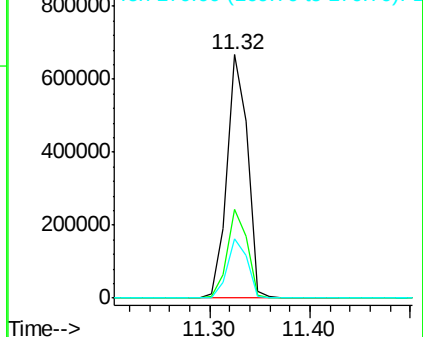
Delta R.T. -0.01 min

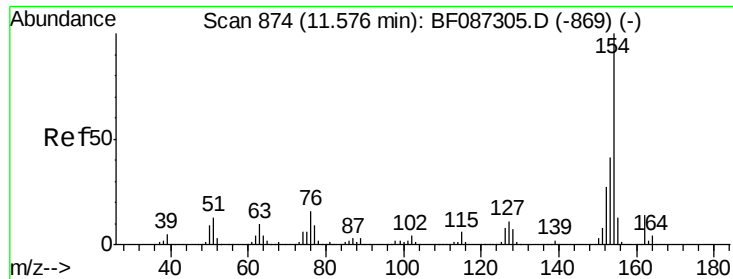
Lab File: BF087376.D

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Tgt Ion:	172	Resp:	949942
Ion Ratio	Lower	Upper	
172	100		
171	36.3	29.0	43.6
170	24.3	19.8	29.8

Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E





#45

1,1'-Biphenyl

Concen: 8.57 ng

RT: 11.47 min Scan# 865

Delta R.T. -0.01 min

Lab File: BF087376.D

Acq: 25 May 2016 17:18

Instrument :

BNA_F

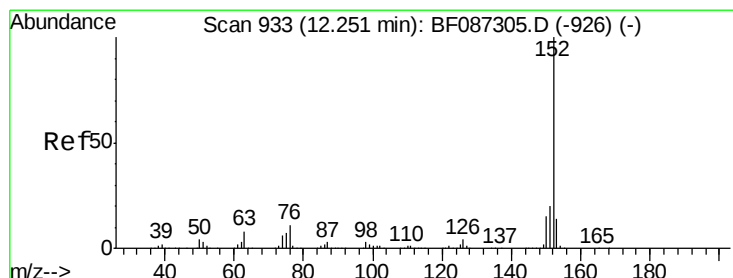
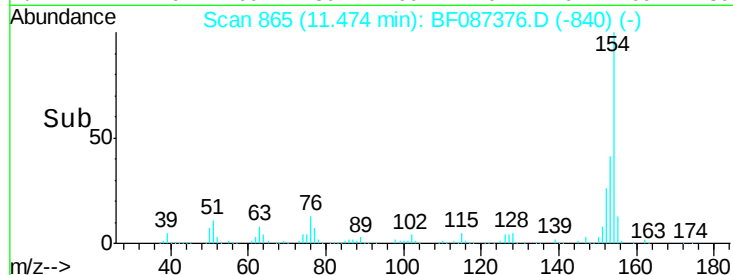
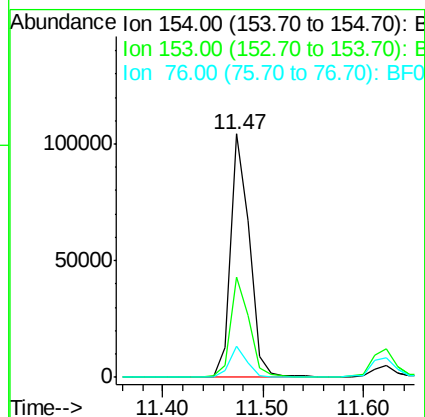
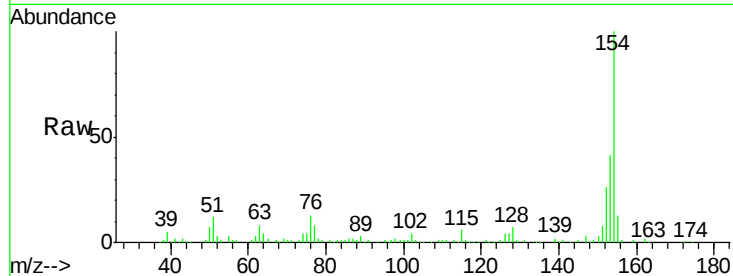
ClientSampled :

E-4(12.5-13)

Tot Ion:	154	Resp:	135843
Ion Ratio	Lower	Upper	
154	100		
153	40.9	20.3	60.3
76	12.9	0.0	30.2

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#48

Acenaphthylene

Concen: 5.98 ng

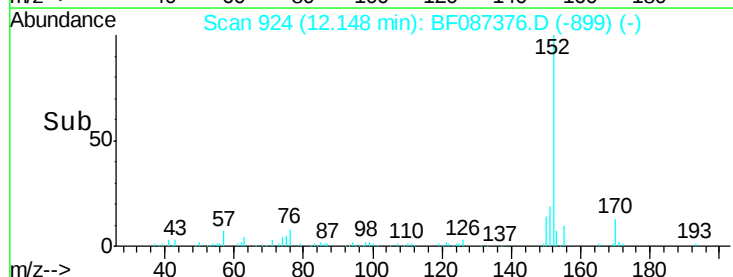
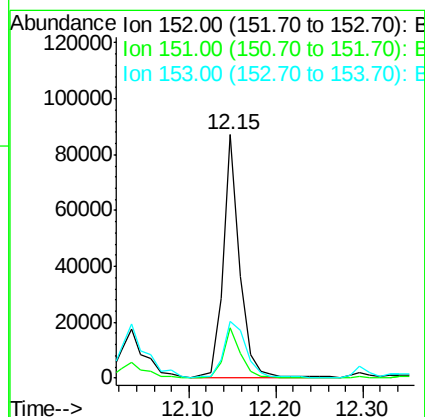
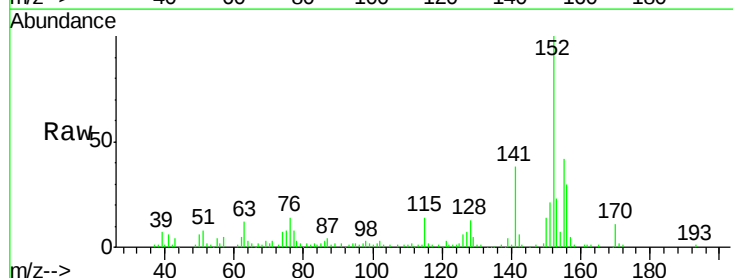
RT: 12.15 min Scan# 924

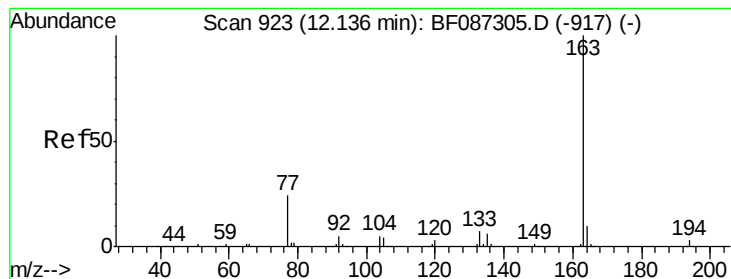
Delta R.T. -0.01 min

Lab File: BF087376.D

Acq: 25 May 2016 17:18

Tgt Ion:	152	Resp:	114817
Ion Ratio	Lower	Upper	
152	100		
151	20.6	16.8	25.2
153	23.3	10.9	16.3#





#49

Dimethylphthalate

Concen: 27.81 ng

RT: 12.02 min Scan# 913

Delta R.T. -0.02 min

Lab File: BF087376.D

Acq: 25 May 2016 17:18

Instrument :

BNA_F

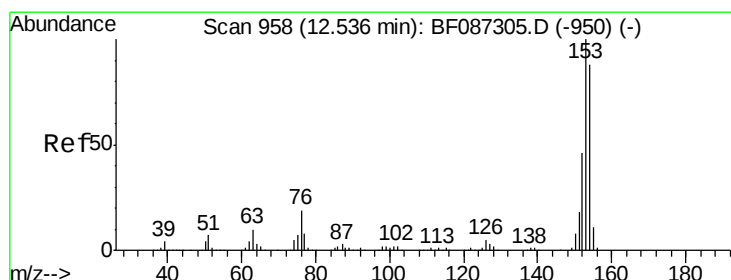
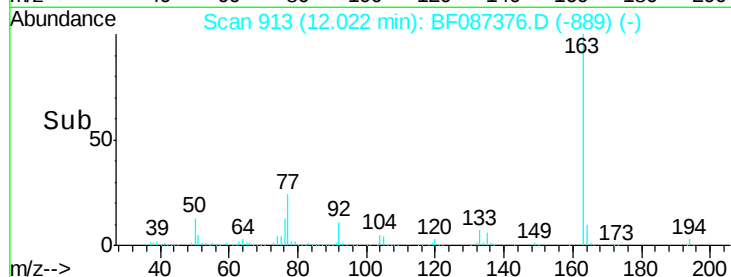
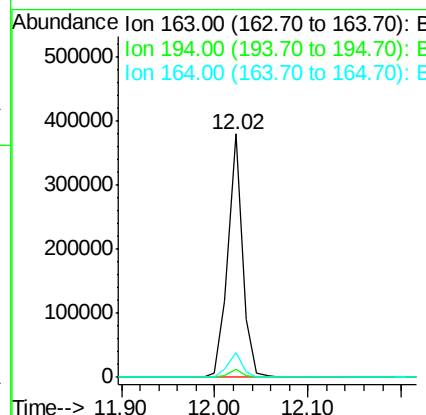
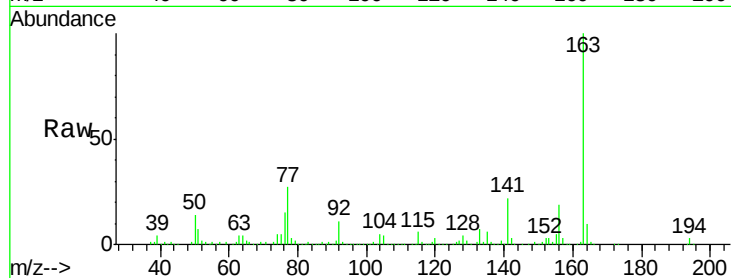
ClientSampleId :

E-4(12.5-13)

Tot Ion:	163	Resp:	419326
Ion Ratio	Lower	Upper	
163	100		
194	3.2	2.6	4.0
164	10.2	8.2	12.4

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#51

Acenaphthene

Concen: 44.73 ng

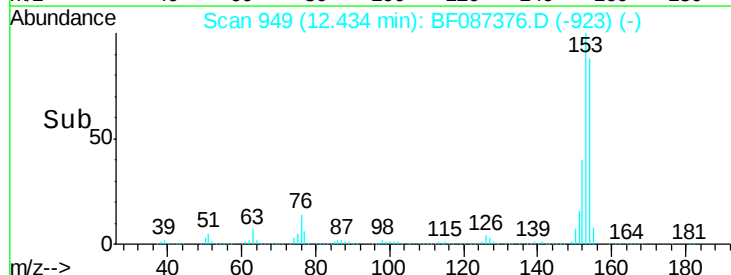
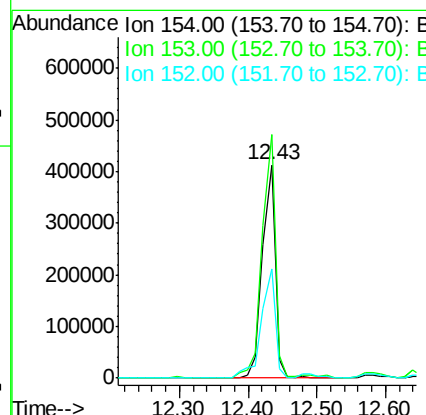
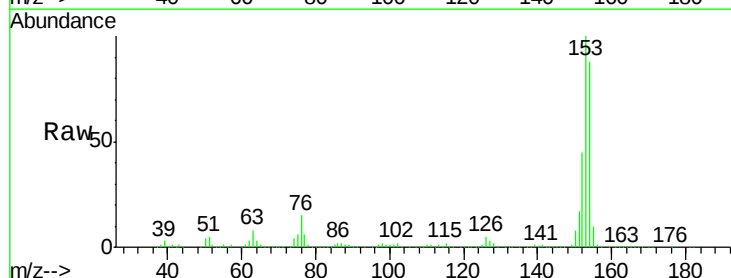
RT: 12.43 min Scan# 949

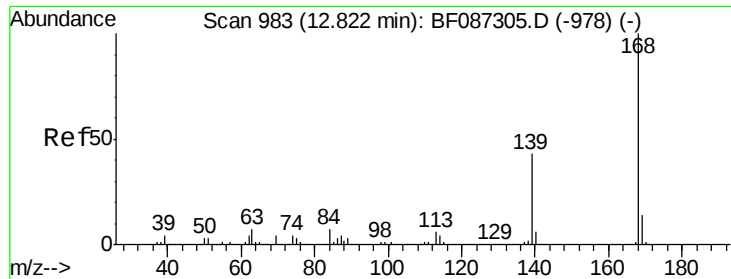
Delta R.T. 0.00 min

Lab File: BF087376.D

Acq: 25 May 2016 17:18

Tgt Ion:	154	Resp:	527725
Ion Ratio	Lower	Upper	
154	100		
153	114.3	89.8	134.6
152	51.5	43.4	65.0





#54

Dibenzenofuran

Concen: 5.41 ng

RT: 12.72 min Scan# 974

Delta R.T. 0.00 min

Lab File: BF087376.D

Acq: 25 May 2016 17:18

Instrument :

BNA_F

ClientSampleId :

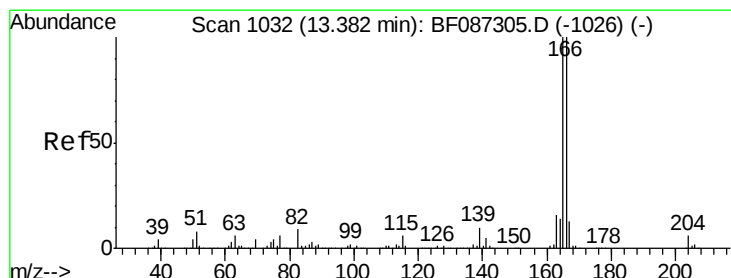
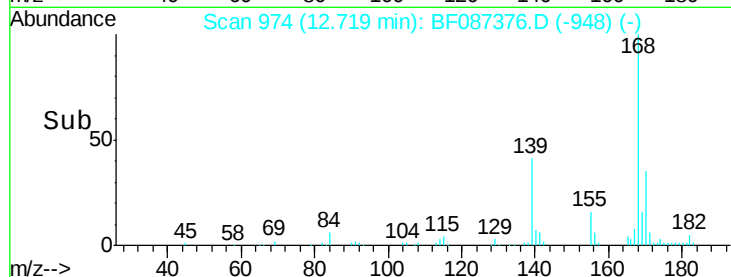
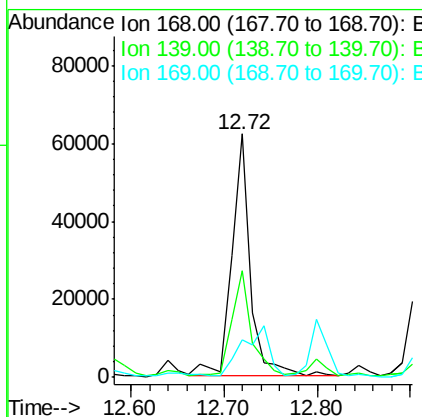
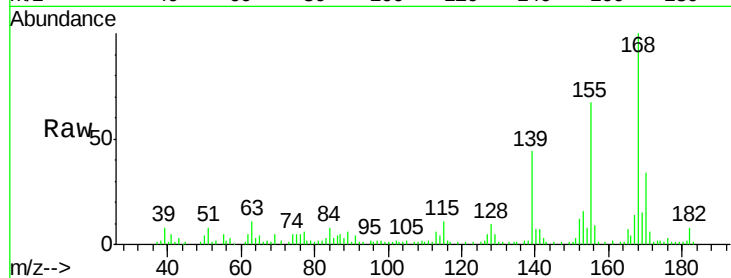
E-4(12.5-13)

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Tot Ion:168	Resp:	86394
Ion Ratio	Lower	Upper
168 100		
139 44.0	31.4	47.0
169 15.3	10.7	16.1



#57

Fluorene

Concen: 25.53 ng

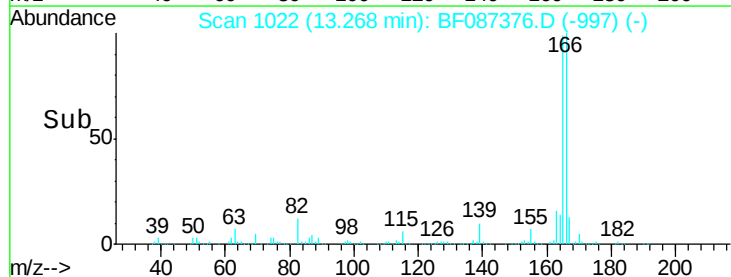
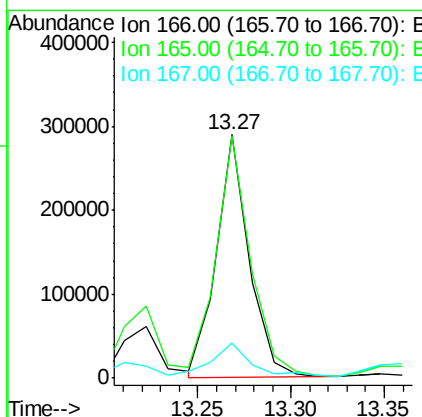
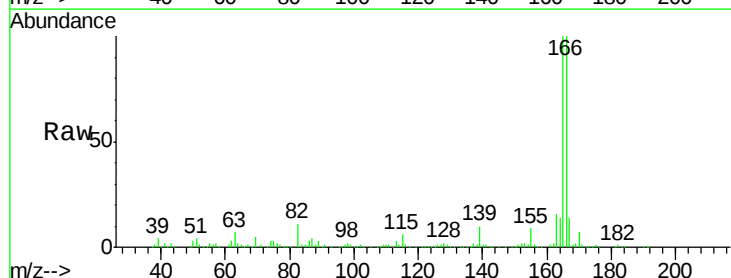
RT: 13.27 min Scan# 1022

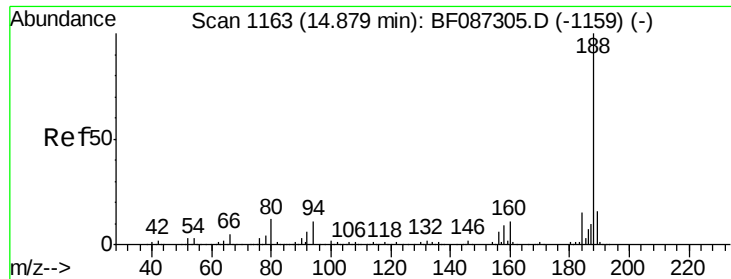
Delta R.T. -0.01 min

Lab File: BF087376.D

Acq: 25 May 2016 17:18

Tgt Ion:166	Resp:	353706
Ion Ratio	Lower	Upper
166 100		
165 99.8	79.0	118.6
167 14.1	10.6	15.8





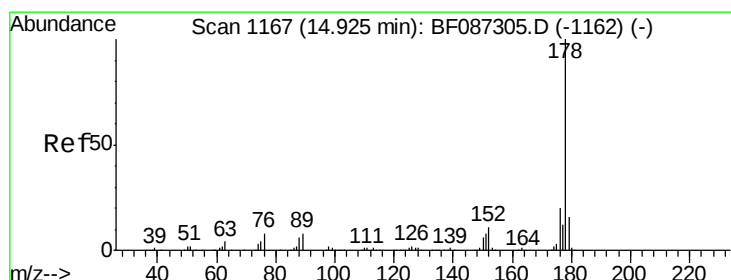
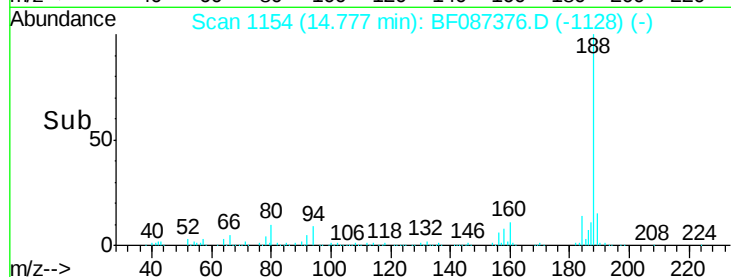
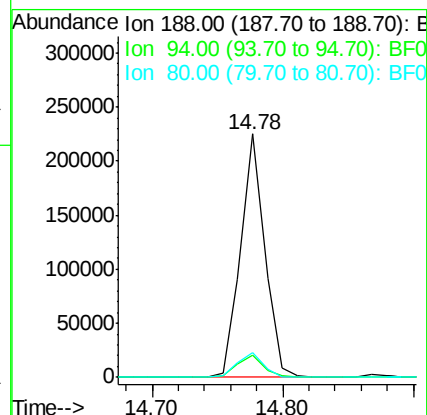
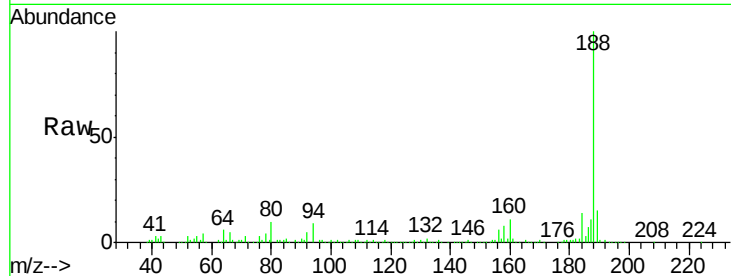
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.78 min Scan# 1154
Delta R.T. 0.00 min
Lab File: BF087376.D
Acq: 25 May 2016 17:18

Instrument :
BNA_F
ClientSampleId :
E-4(12.5-13)

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	9.4	6.8	10.2
80	10.0	7.1	10.7

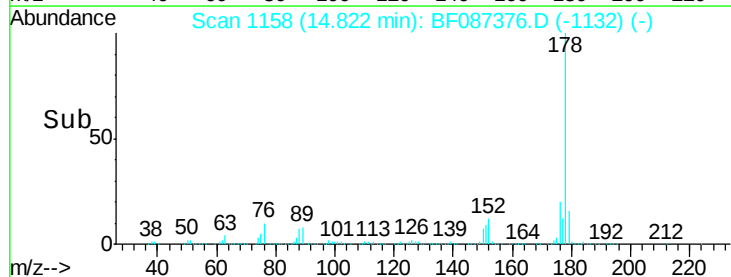
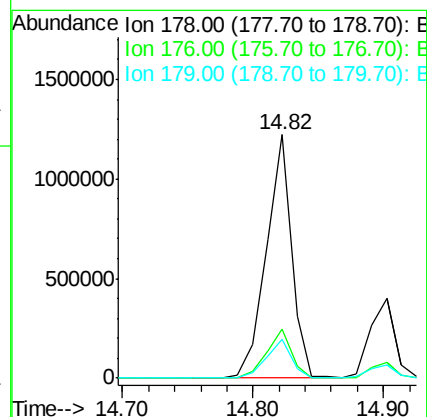
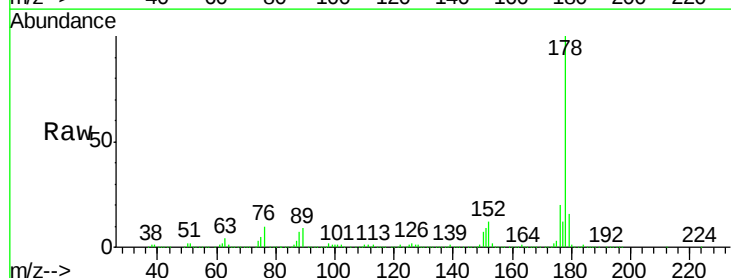
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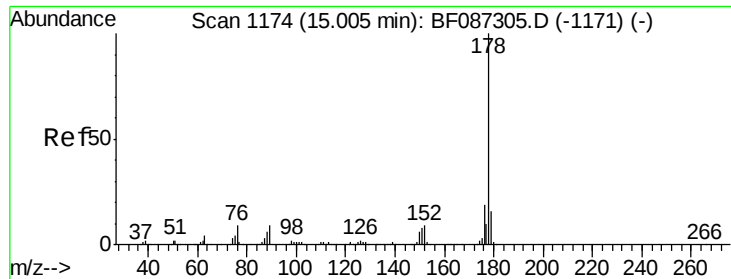
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#70
Phenanthrene
Concen: 103.59 ng
RT: 14.82 min Scan# 1158
Delta R.T. 0.00 min
Lab File: BF087376.D
Acq: 25 May 2016 17:18

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	20.3	16.0	24.0
179	16.0	12.6	18.8





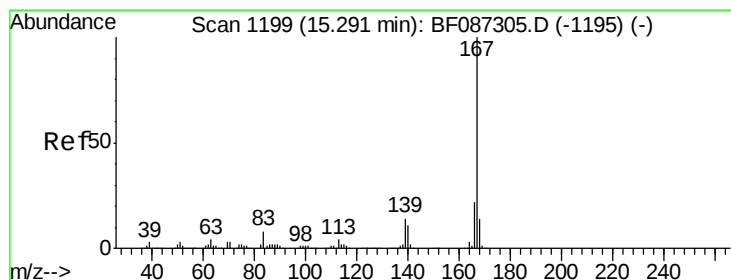
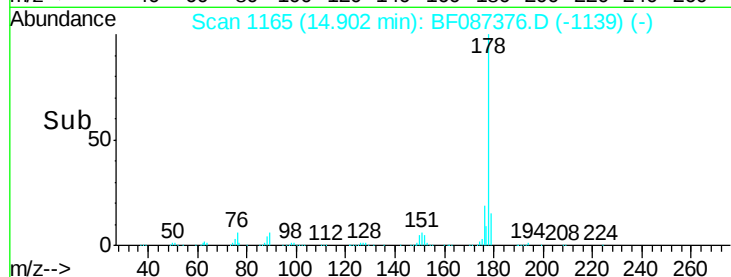
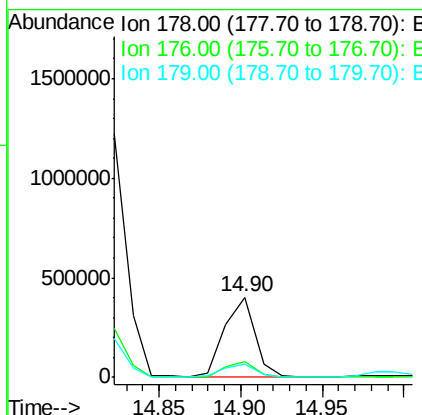
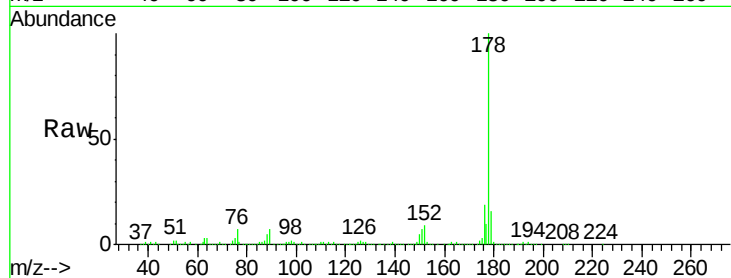
#71
 Anthracene
 Concen: 31.89 ng
 RT: 14.90 min Scan# 1165
 Delta R.T. 0.00 min
 Lab File: BF087376.D
 Acq: 25 May 2016 17:18

Instrument :
 BNA_F
 ClientSampleId :
 E-4(12.5-13)

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.6	23.4
179	16.2	12.7	19.1

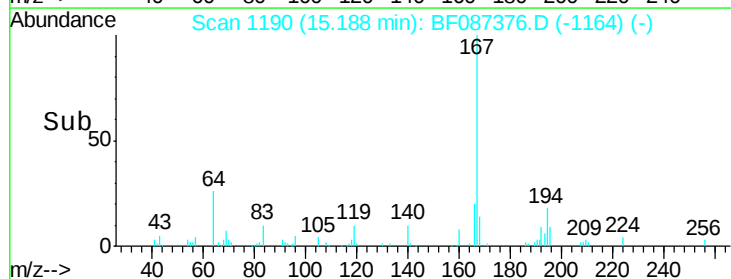
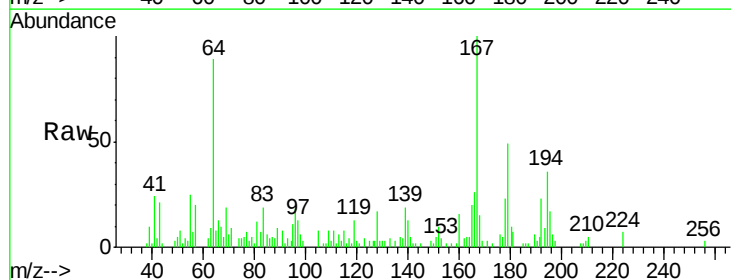
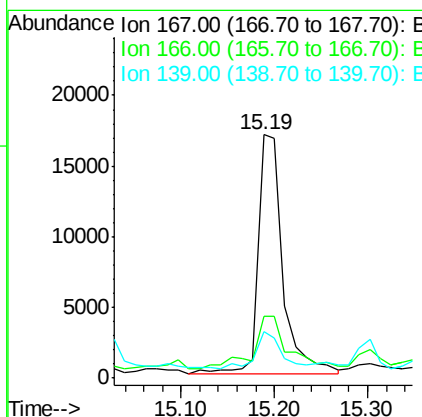
Manual Integrations
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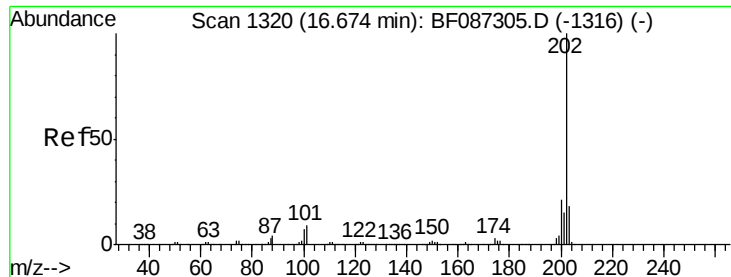
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#72
 Carbazole
 Concen: 2.23 ng
 RT: 15.19 min Scan# 1190
 Delta R.T. 0.00 min
 Lab File: BF087376.D
 Acq: 25 May 2016 17:18

Tgt Ion	Ratio	Lower	Upper
167	100		
166	25.6	17.7	26.5
139	19.2	10.8	16.2





#74

Fluoranthene

Concen: 35.25 ng

RT: 16.57 min Scan# 1311

Delta R.T. -0.01 min

Lab File: BF087376.D

Acq: 25 May 2016 17:18

Instrument :

BNA_F

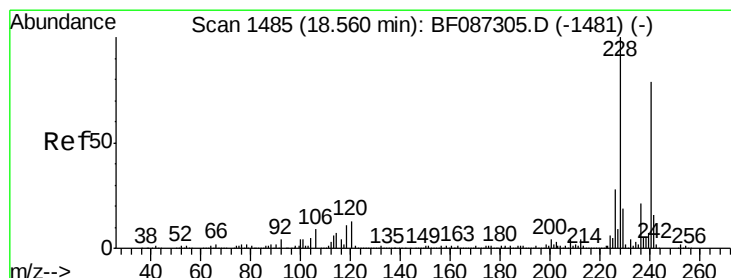
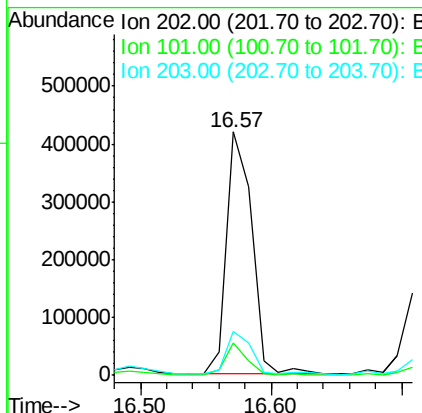
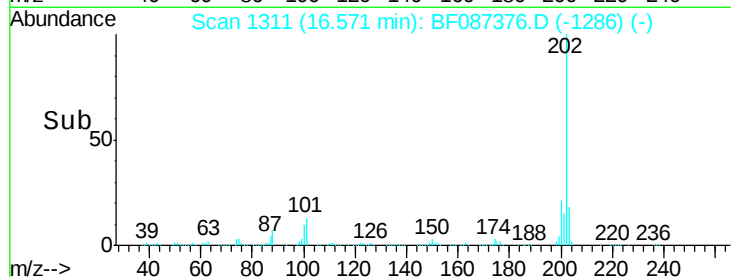
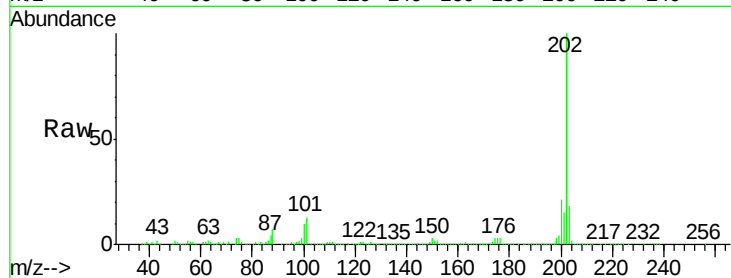
ClientSampleId :

E-4(12.5-13)

Tot Ion:	202	Resp:	567699
Ion Ratio		Lower	Upper
202	100		
101	13.3	0.0	35.4
203	18.0	0.0	38.1

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#75

Chrysene-d12

Concen: 20.00 ng

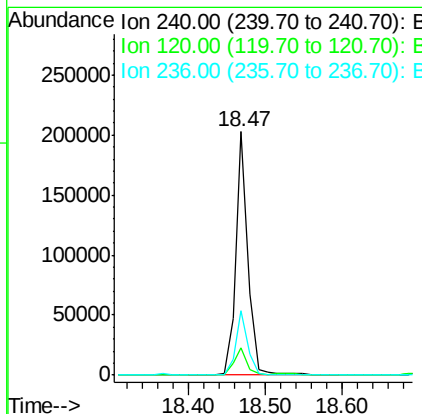
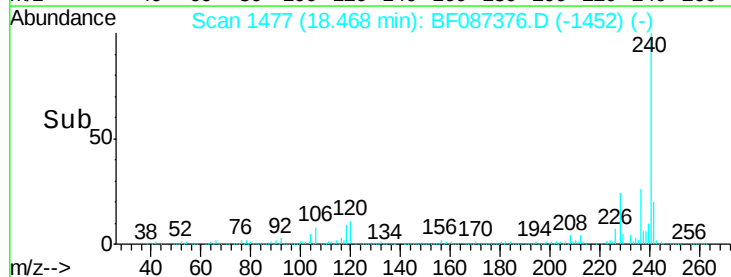
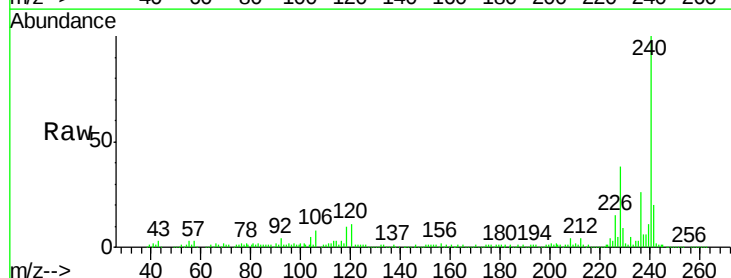
RT: 18.47 min Scan# 1477

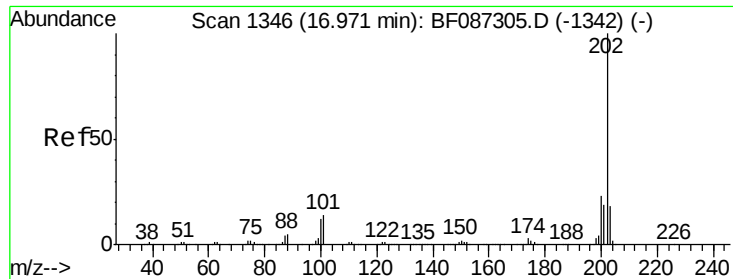
Delta R.T. -0.01 min

Lab File: BF087376.D

Acq: 25 May 2016 17:18

Tgt Ion:	240	Resp:	225141
Ion Ratio		Lower	Upper
240	100		
120	11.4	11.2	16.8
236	26.3	21.2	31.8





#77

Pvrene

Concen: 49.44 ng

RT: 16.88 min Scan# 1338

Delta R.T. 0.00 min

Lab File: BF087376.D

Acq: 25 May 2016 17:18

Instrument :

BNA_F

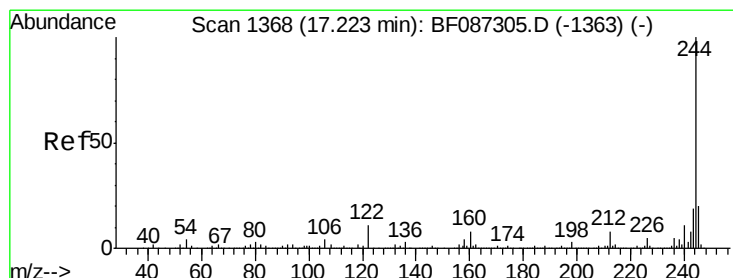
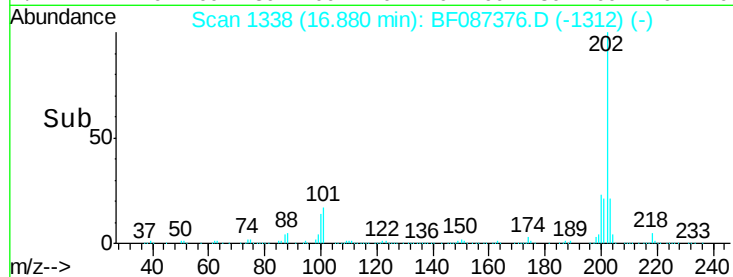
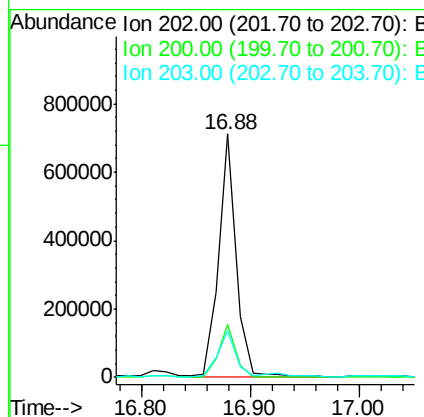
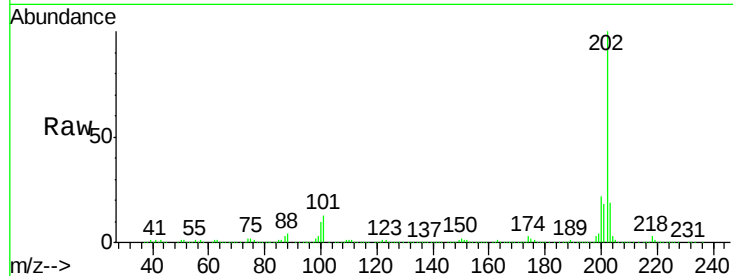
ClientSampleId :

E-4(12.5-13)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		801248		
200	21.9	17.7	26.5		
203	19.1	14.2	21.4		

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#78

Terphenyl-d14

Concen: 62.30 ng

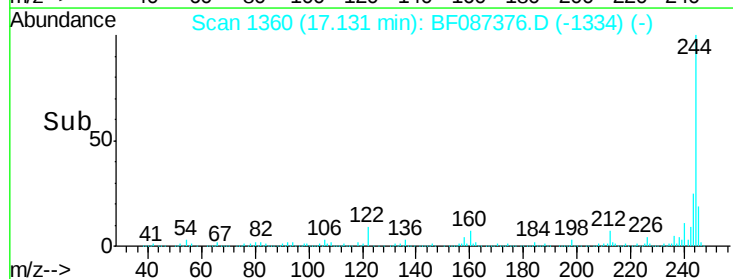
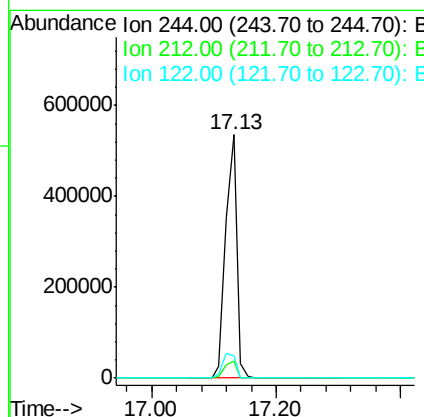
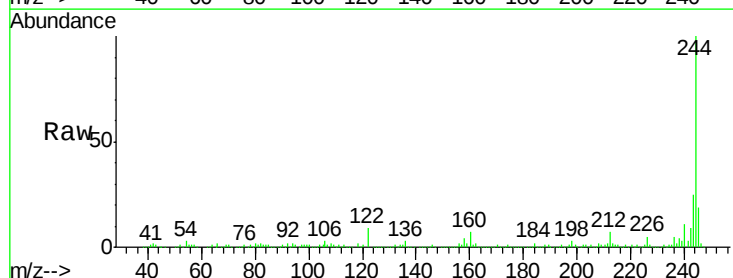
RT: 17.13 min Scan# 1360

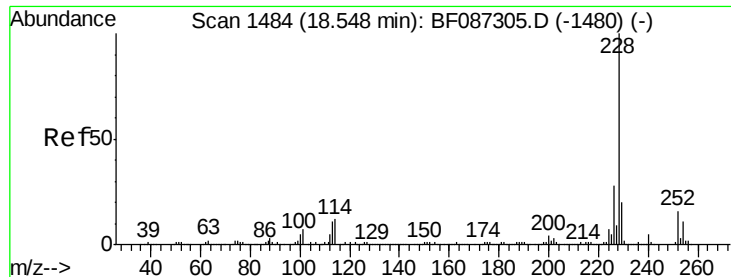
Delta R.T. 0.00 min

Lab File: BF087376.D

Acq: 25 May 2016 17:18

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
244	100		659726		
212	7.2	6.2	9.2		
122	8.9	12.0	18.0		





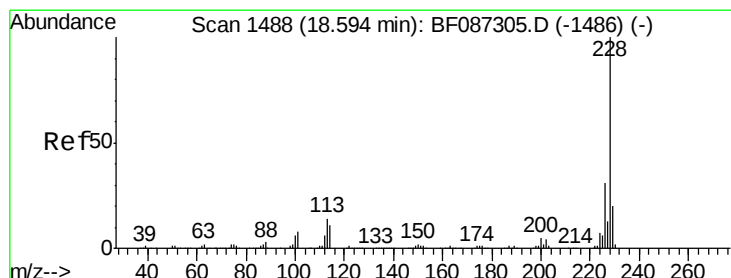
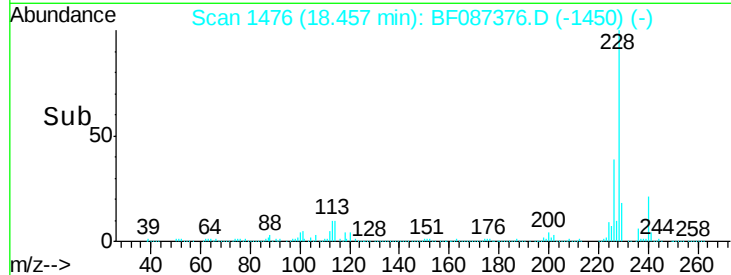
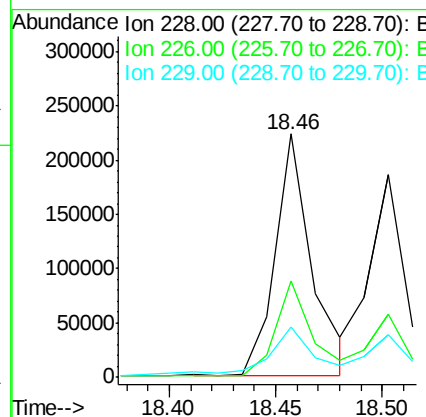
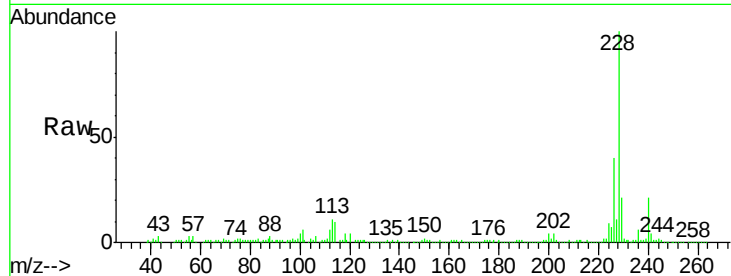
#80
Benzo(a)anthracene
Concen: 20.81 ng
RT: 18.46 min Scan# 1476
Delta R.T. 0.00 min
Lab File: BF087376.D
Acq: 25 May 2016 17:18

Instrument :
BNA_F
ClientSampled :
E-4(12.5-13)

Tot Ion	Ratio	Lower	Upper
228	100		
226	39.5	22.5	33.7#
229	20.8	16.6	25.0

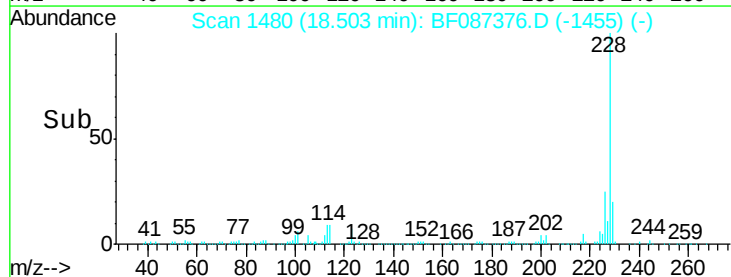
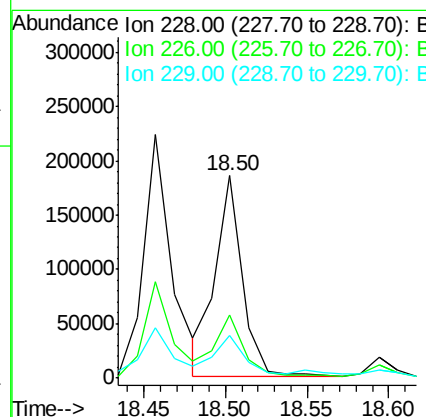
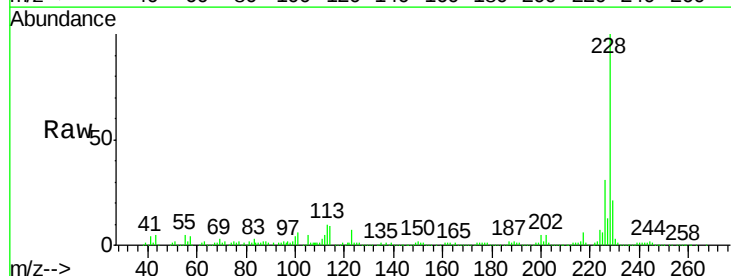
Manual Integrations
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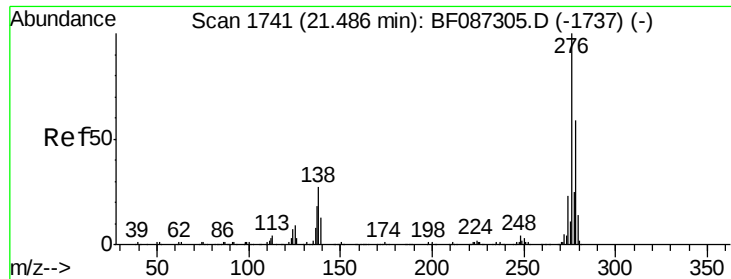
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#82
Chrysene
Concen: 16.80 ng
RT: 18.50 min Scan# 1480
Delta R.T. -0.01 min
Lab File: BF087376.D
Acq: 25 May 2016 17:18

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.4	36.6
229	21.2	15.8	23.8





#85

Indeno(1,2,3-cd)pyrene

Concen: 5.11 ng

RT: 21.37 min Scan# 1731

Delta R.T. 0.01 min

Lab File: BF087376.D

Acq: 25 May 2016 17:18

Instrument :

BNA_F

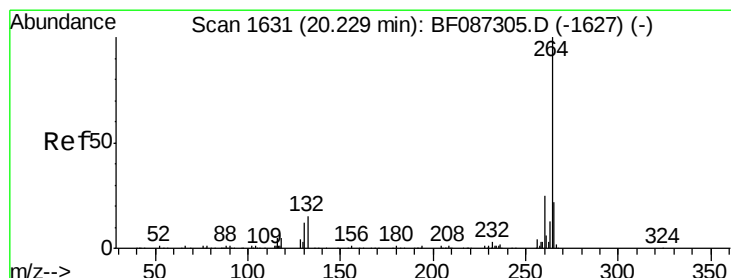
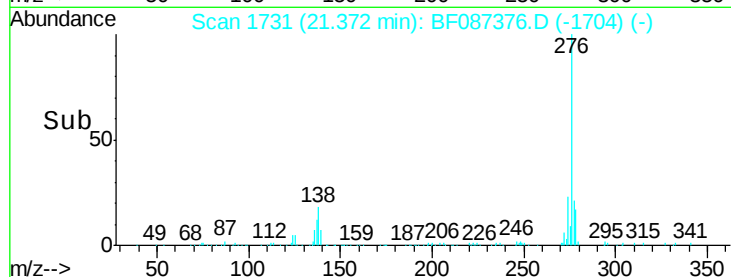
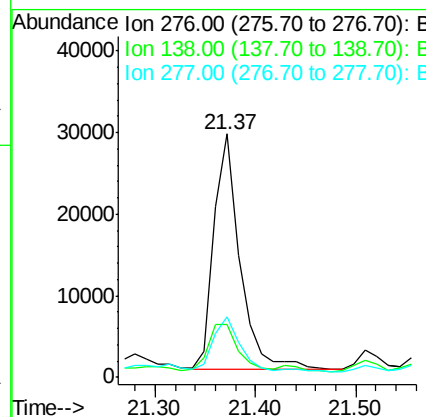
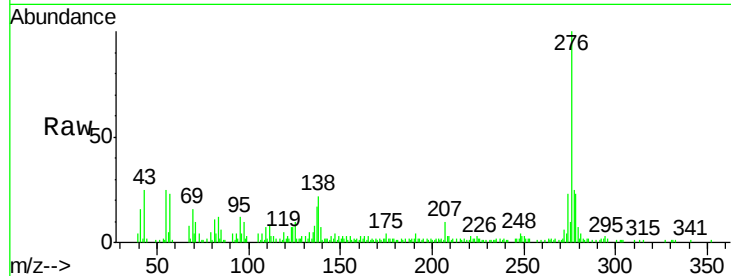
ClientSampleId :

E-4(12.5-13)

Tot Ion:	276	Resp:	52107
Ion Ratio	Lower	Upper	
276	100		
138	22.7	25.6	38.4#
277	24.6	20.5	30.7

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#86

Perylene-d12

Concen: 20.00 ng

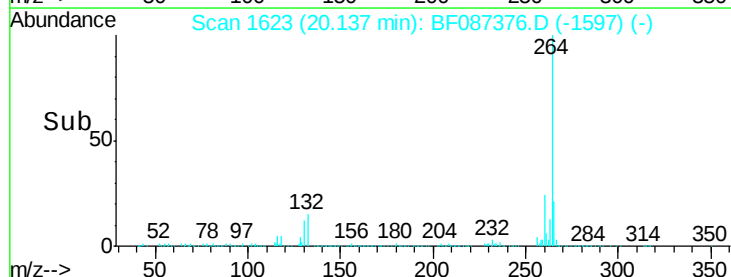
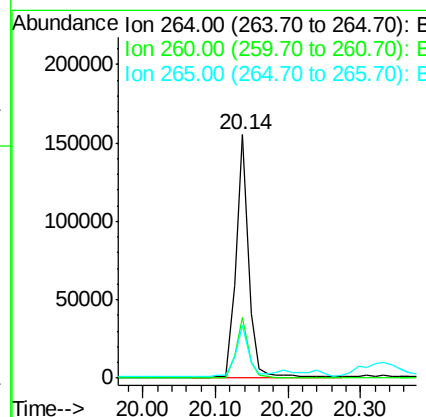
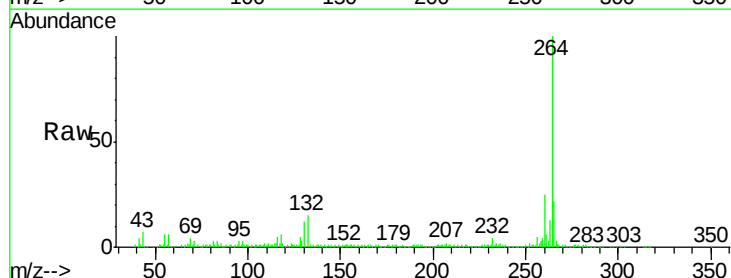
RT: 20.14 min Scan# 1623

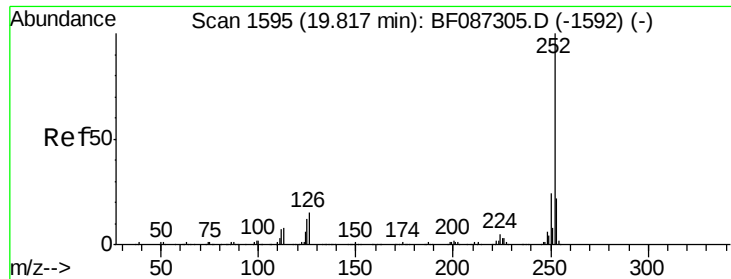
Delta R.T. 0.00 min

Lab File: BF087376.D

Acq: 25 May 2016 17:18

Tgt Ion:	264	Resp:	186202
Ion Ratio	Lower	Upper	
264	100		
260	24.7	19.5	29.3
265	21.8	17.3	25.9





#87

Benzo(b)fluoranthene

Concen: 13.05 ng m

RT: 19.74 min Scan# 1588

Delta R.T. 0.01 min

Lab File: BF087376.D

Acq: 25 May 2016 17:18

Instrument :

BNA_F

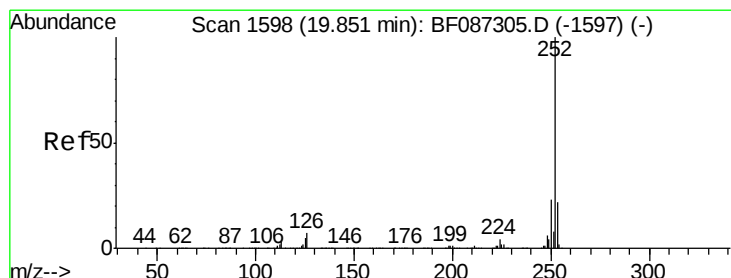
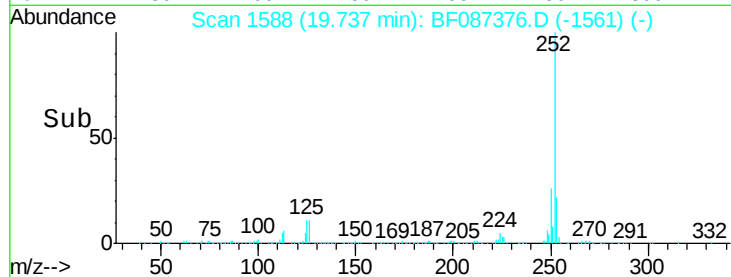
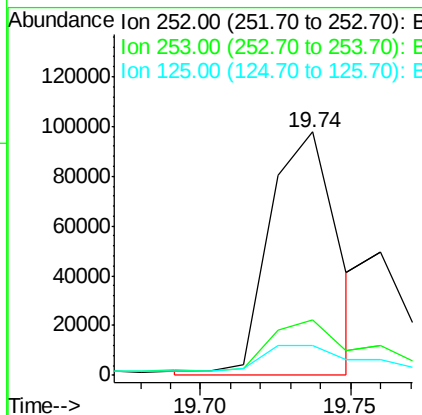
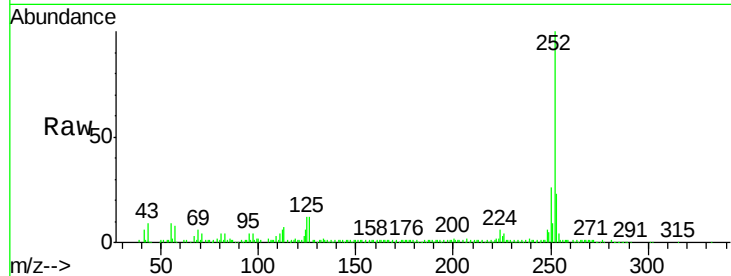
ClientSampleId :

E-4(12.5-13)

Tot Ion:	252	Resp:	154773
Ion Ratio	Lower	Upper	
252	100		
253	22.8	17.8	26.6
125	12.2	11.4	17.0

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#88

Benzo(k)fluoranthene

Concen: 5.45 ng m

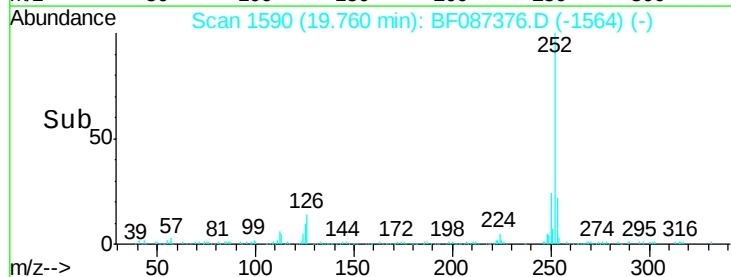
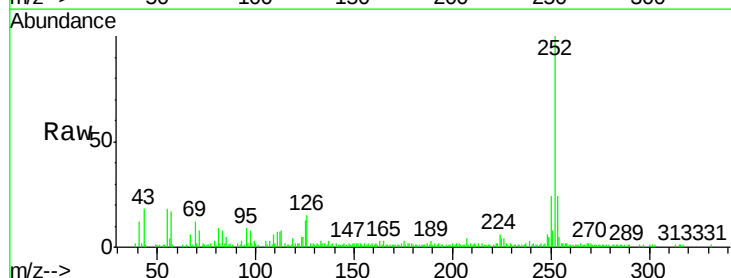
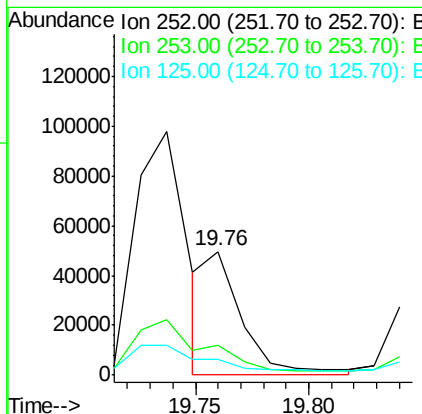
RT: 19.76 min Scan# 1590

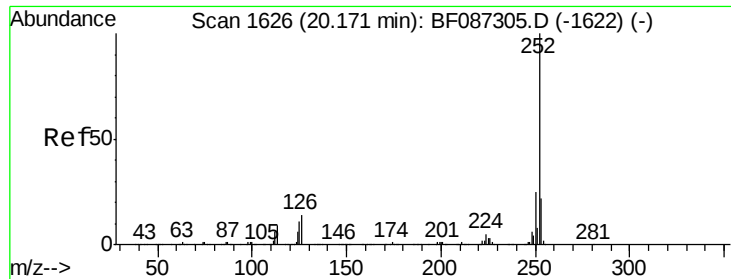
Delta R.T. 0.00 min

Lab File: BF087376.D

Acq: 25 May 2016 17:18

Tgt Ion:	252	Resp:	55614
Ion Ratio	Lower	Upper	
252	100		
253	24.2	17.8	26.6
125	12.8	9.1	13.7





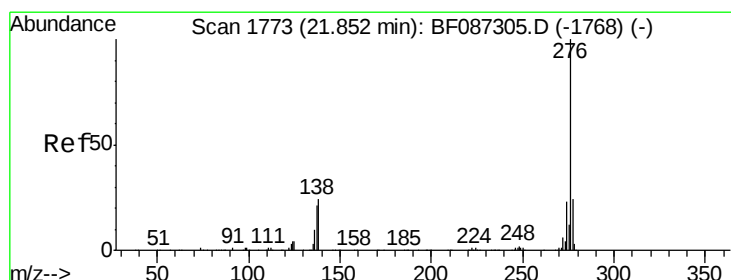
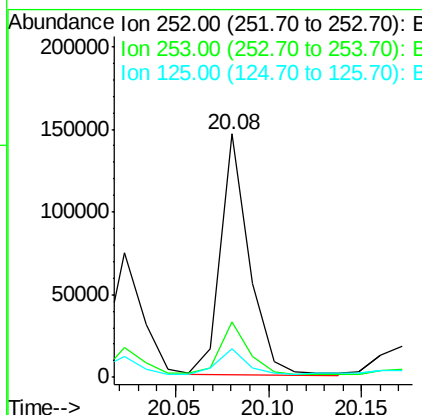
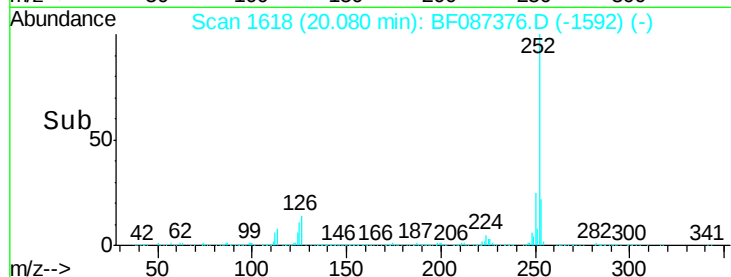
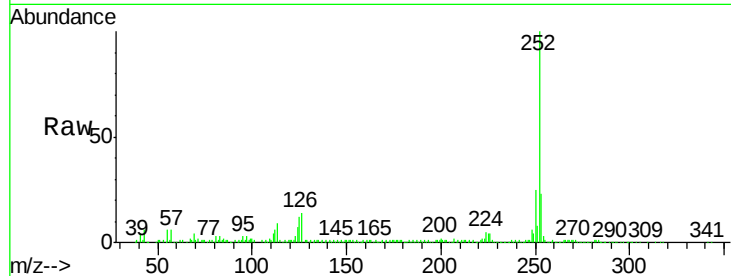
#89
Benzo(a)pyrene
Concen: 15.38 ng
RT: 20.08 min Scan# 1618
Delta R.T. 0.00 min
Lab File: BF087376.D
Acq: 25 May 2016 17:18

Instrument :
BNA_F
ClientSampleId :
E-4(12.5-13)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.2	25.8
125	12.0	9.0	13.6

Manual Integrations
APPROVED

sohil
5/26/2016 6:39:00 PM



#91
Benzo(g,h,i)perylene
Concen: 6.35 ng
RT: 21.73 min Scan# 1762
Delta R.T. 0.01 min
Lab File: BF087376.D
Acq: 25 May 2016 17:18

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.3	19.6	29.4
138	24.0	23.6	35.4

