

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052616\
 Data File : BF087438.D
 Acq On : 27 May 2016 10:12
 Operator : UM/SJ
 Sample : H3242-05 10X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E-11(5.5-6)

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Quant Time: May 27 12:04:20 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 16:26:52 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.51	152	104375	20.00	ng	-0.01
21) Naphthalene-d8	9.54	136	412665	20.00	ng	-0.01
38) Acenaphthene-d10	12.37	164	175421	20.00	ng	-0.02
63) Phenanthrene-d10	14.77	188	281434	20.00	ng	-0.01
75) Chrysene-d12	18.47	240	229984	20.00	ng	-0.01
86) Perylene-d12	20.14	264	221286	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.46	112	56416	9.50	ng	0.05
7) Phenol-d6	7.10	99	77273	9.63	ng	0.02
23) Nitrobenzene-d5	8.46	82	58231	7.11	ng	0.01
41) 2,4,6-Tribromophenol	13.68	330	12179	7.22	ng	0.00
44) 2-Fluorobiphenyl	11.31	172	109578	8.81	ng	-0.02
78) Terphenyl-d14	17.12	244	71181	6.58	ng	-0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	9.58	128	294425	14.24	ng	99
37) 2-Methylnaphthalene	10.71	142	58310	4.51	ng	96
51) Acenaphthene	12.42	154	55299	5.03	ng	97
54) Dibenzofuran	12.72	168	58473	3.93	ng	95
57) Fluorene	13.27	166	59318	4.60	ng	96
70) Phenanthrene	14.80	178	537582	34.48	ng	99
71) Anthracene	14.90	178	147809	9.39	ng	97
72) Carbazole	15.21	167	43685	3.25	ng	96
74) Fluoranthene	16.57	202	426876	27.31	ng	93
77) Pyrene	16.87	202	371682	22.45	ng	# 95
80) Benzo(a)anthracene	18.46	228	161154	12.32	ng	98
82) Chrysene	18.50	228	137068	10.56	ng	99
85) Indeno(1,2,3-cd)pyrene	21.39	276	60870	5.85	ng	# 88
87) Benzo(b)fluoranthene	19.74	252	157891m	11.20	ng	
88) Benzo(k)fluoranthene	19.77	252	64827m	5.34	ng	
89) Benzo(a)pyrene	20.09	252	118833	9.75	ng	94
91) Benzo(g,h,i)perylene	21.76	276	57353	5.59	ng	# 90

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

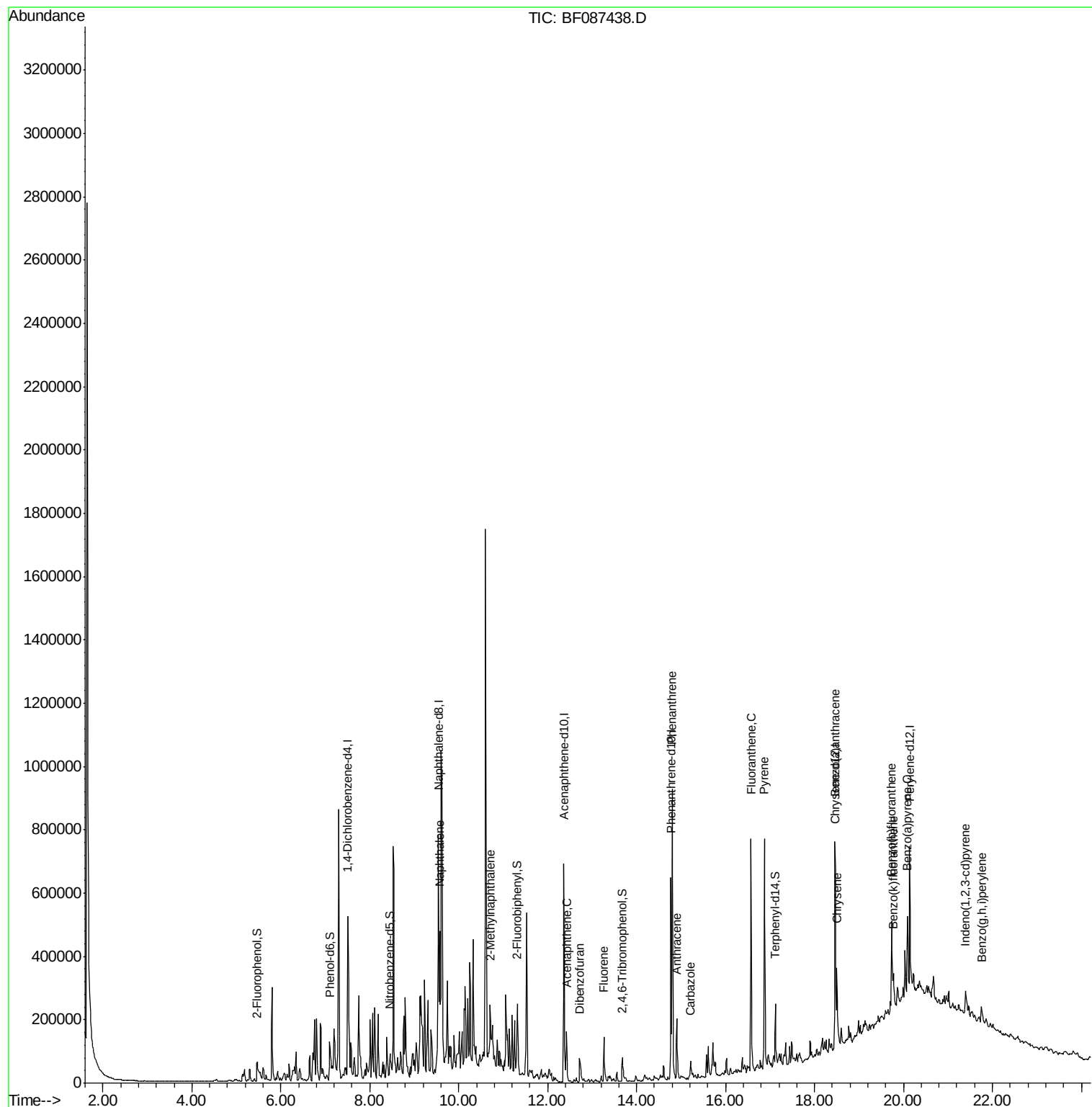
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052616\
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ALS Vial : 37 Sample Multiplier: 1

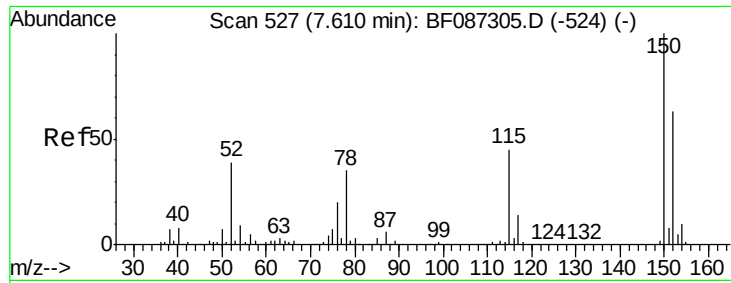
Instrument :
BNA_F
ClientSampled :
E-11(5.5-6)

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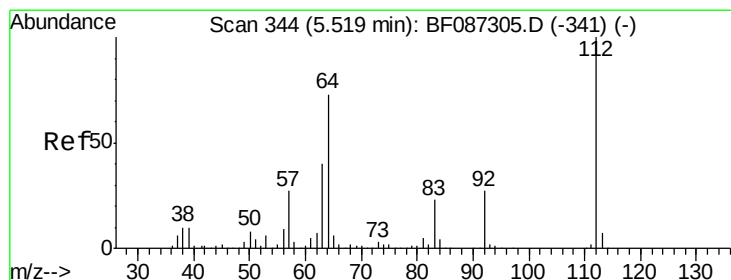
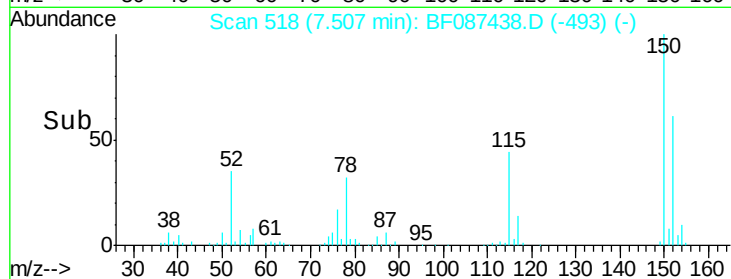
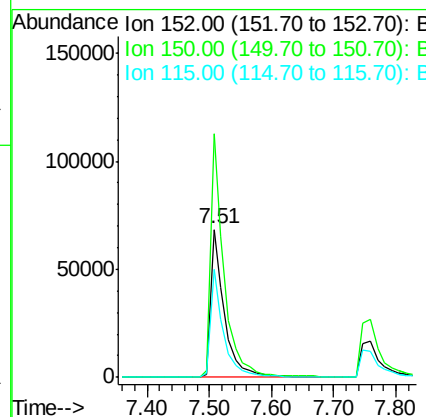
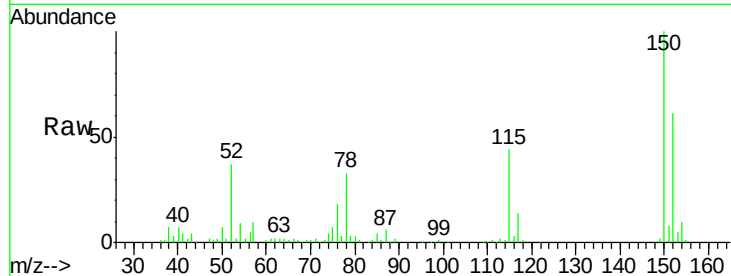
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.51 min Scan# 518
 Delta R.T. -0.01 min
 Lab File: BF087438.D
 Acq: 27 May 2016 10:12

Instrument :
 BNA_F
 ClientSampleId :
 E-11(5.5-6)

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	104375		
150	164.3	125.8	188.6	
115	72.4	51.5	77.3	

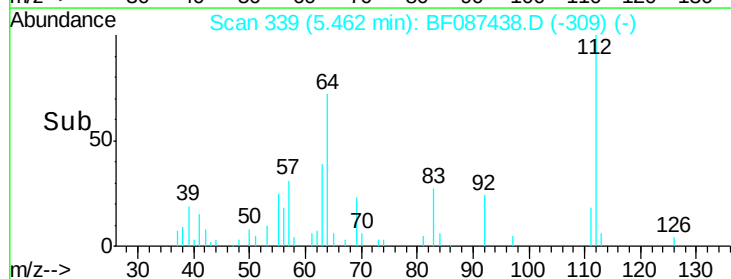
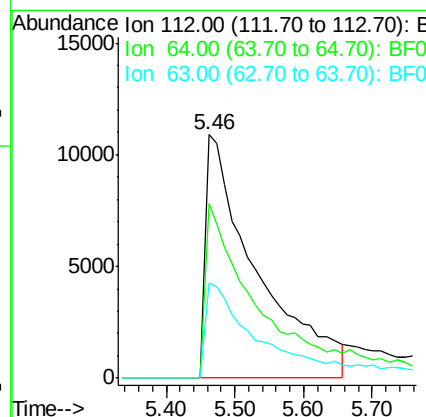
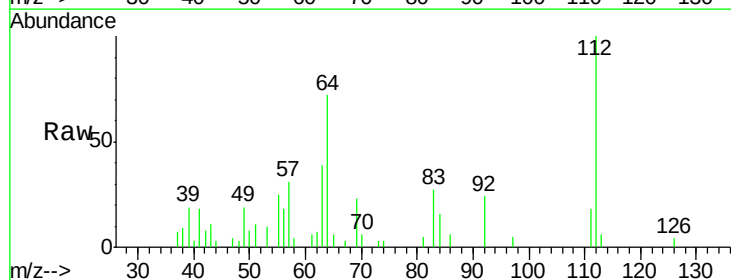
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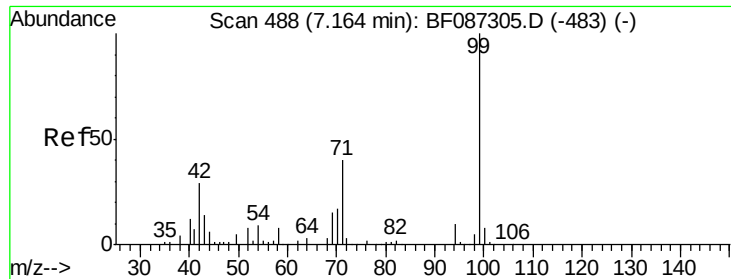
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#5
 2-Fluorophenol
 Concen: 9.50 ng
 RT: 5.46 min Scan# 339
 Delta R.T. 0.05 min
 Lab File: BF087438.D
 Acq: 27 May 2016 10:12

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	56416		
64	71.8	52.1	78.1	
63	39.0	25.7	38.5	





#7

Phenol-d6

Concen: 9.63 ng

RT: 7.10 min Scan# 482

Delta R.T. 0.02 min

Lab File: BF087438.D

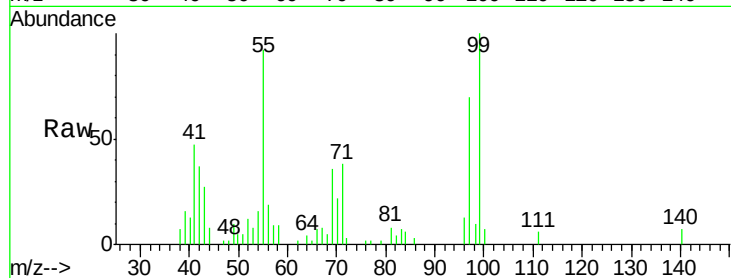
Acq: 27 May 2016 10:12

Instrument :

BNA_F

ClientSampleId :

E-11(5.5-6)



Tgt Ion: 99 Resp: 77273

Ion Ratio Lower Upper

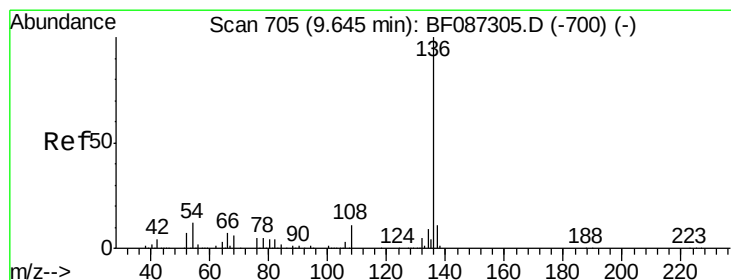
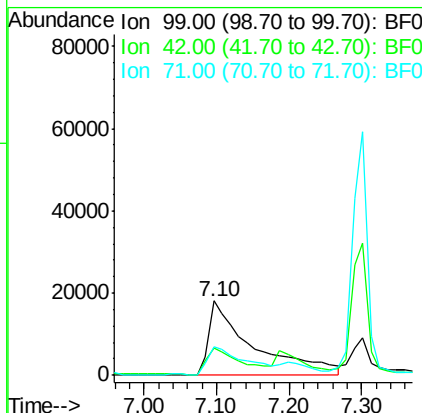
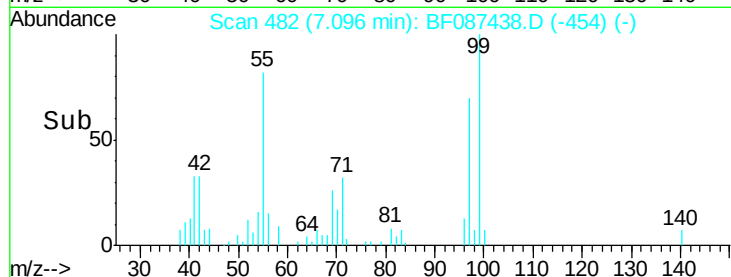
99 100

42 37.1 13.6 20.4#

71 38.2 24.6 36.8#

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.54 min Scan# 696

Delta R.T. -0.01 min

Lab File: BF087438.D

Acq: 27 May 2016 10:12

Tgt Ion: 136 Resp: 412665

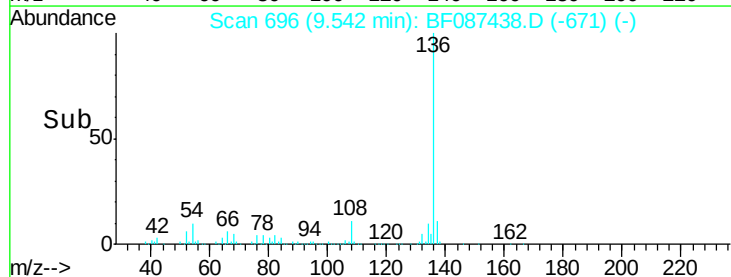
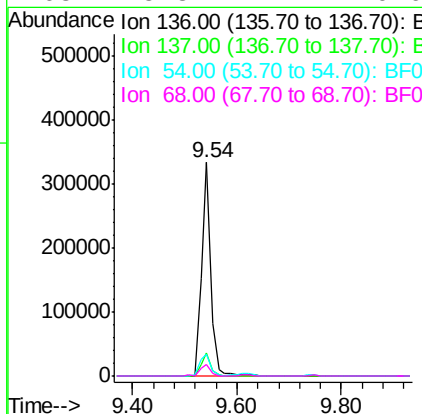
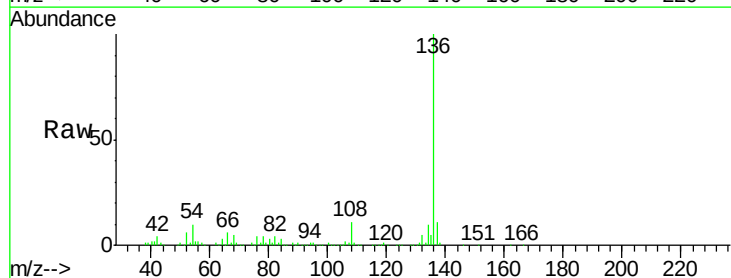
Ion Ratio Lower Upper

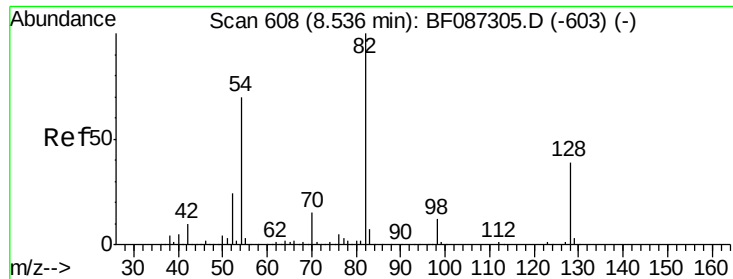
136 100

137 10.7 8.8 13.2

54 10.5 5.0 7.4#

68 5.3 4.4 6.6





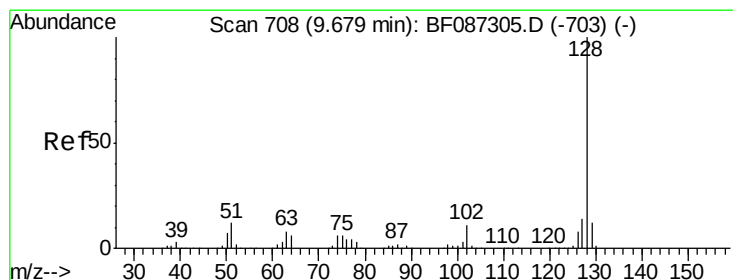
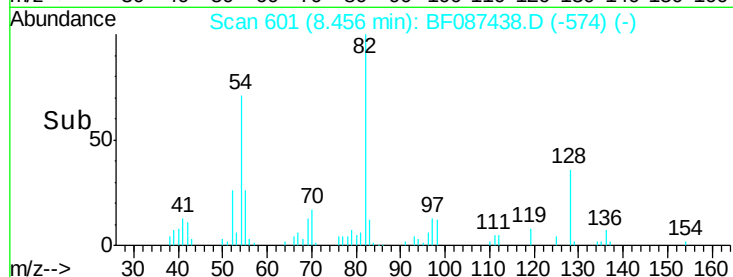
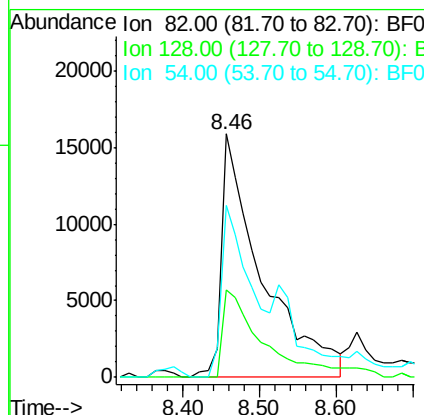
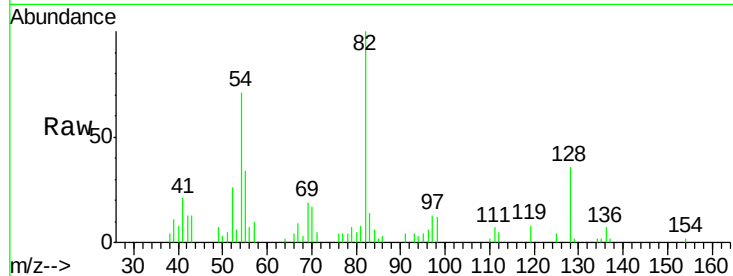
#23
Nitrobenzene-d5
Concen: 7.11 ng
RT: 8.46 min Scan# 601
Delta R.T. 0.01 min
Lab File: BF087438.D
Acq: 27 May 2016 10:12

Instrument :
BNA_F
ClientSampleId :
E-11(5.5-6)

Tgt Ion	Ratio	Lower	Upper
82	100		
128	35.7	40.6	61.0#
54	70.6	38.1	57.1#

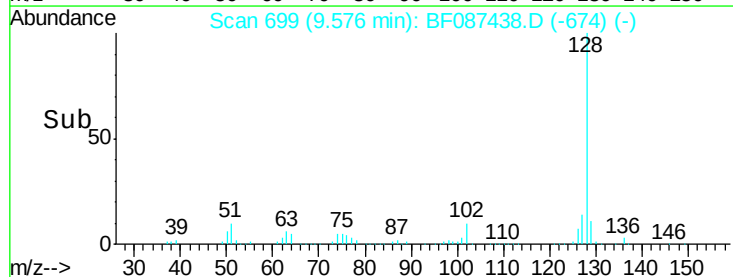
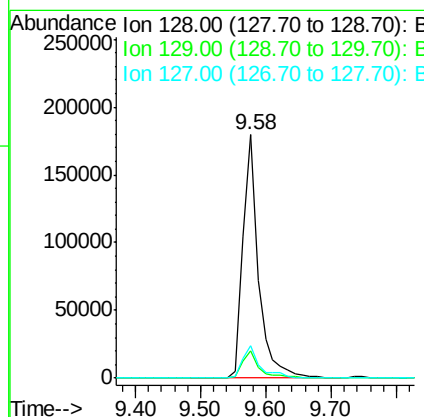
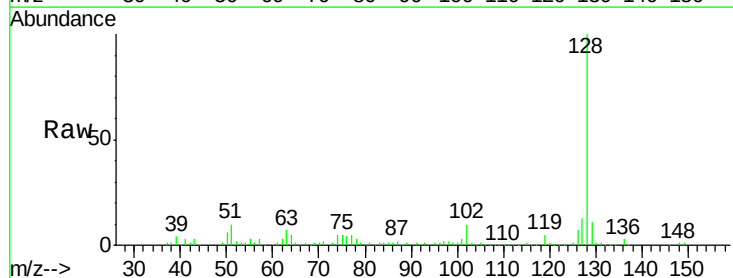
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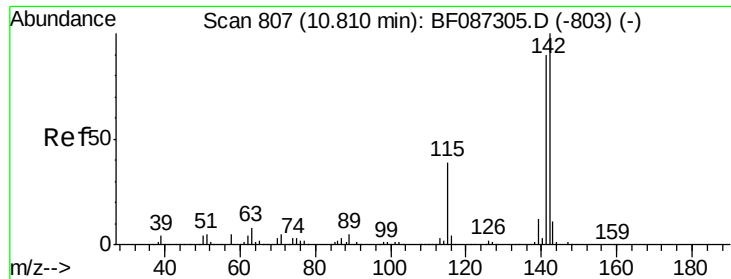
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#31
Naphthalene
Concen: 14.24 ng
RT: 9.58 min Scan# 699
Delta R.T. -0.01 min
Lab File: BF087438.D
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Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.6	13.0
127	13.5	10.8	16.2





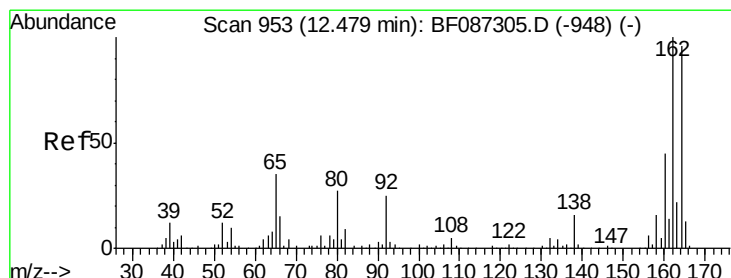
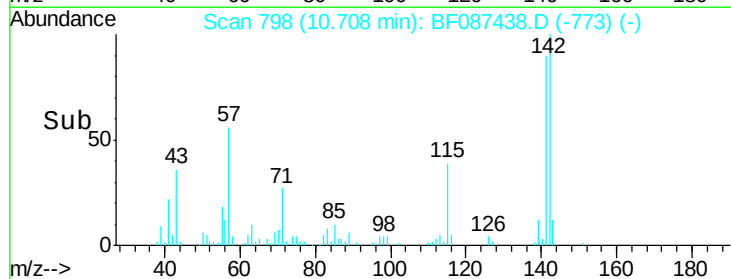
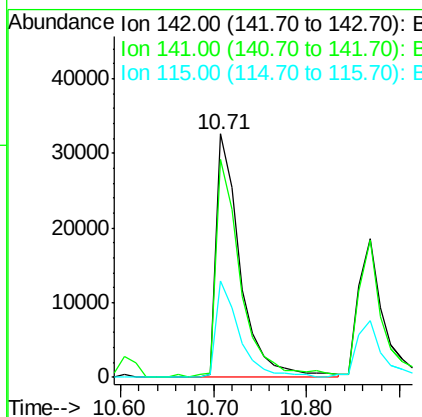
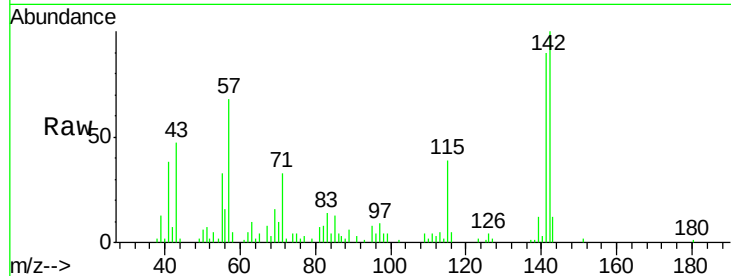
#37
 2-Methylnaphthalene
 Concen: 4.51 ng
 RT: 10.71 min Scan# 798
 Delta R.T. -0.01 min
 Lab File: BF087438.D
 Acq: 27 May 2016 10:12

Instrument :
 BNA_F
 ClientSampleId :
 E-11(5.5-6)

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.6	71.0	106.6
115	39.5	26.6	39.8

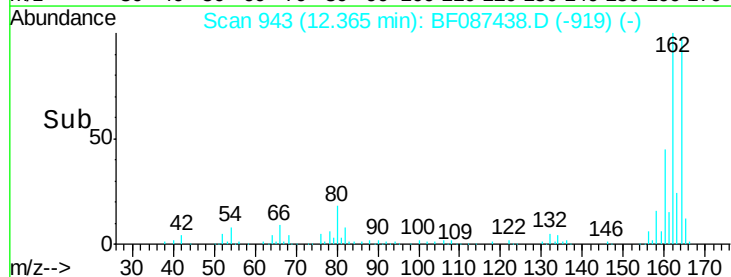
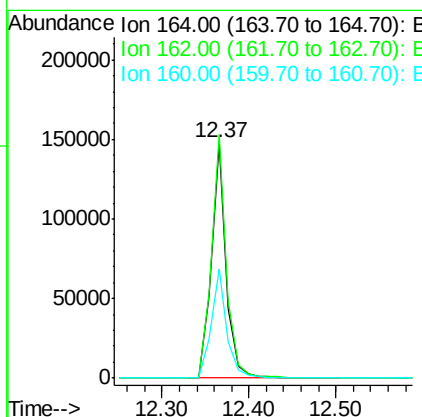
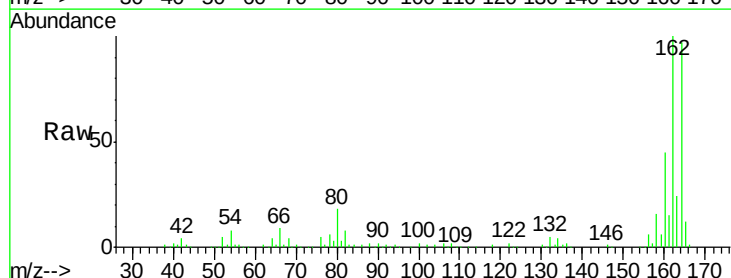
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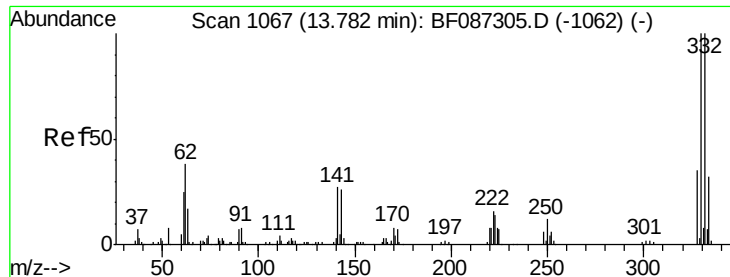
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 12.37 min Scan# 943
 Delta R.T. -0.02 min
 Lab File: BF087438.D
 Acq: 27 May 2016 10:12

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.6	82.8	124.2
160	46.6	36.9	55.3





#41

2,4,6-Tribromophenol

Concen: 7.22 ng

RT: 13.68 min Scan# 1058

Delta R.T. 0.00 min

Lab File: BF087438.D

Acq: 27 May 2016 10:12

Instrument :

BNA_F

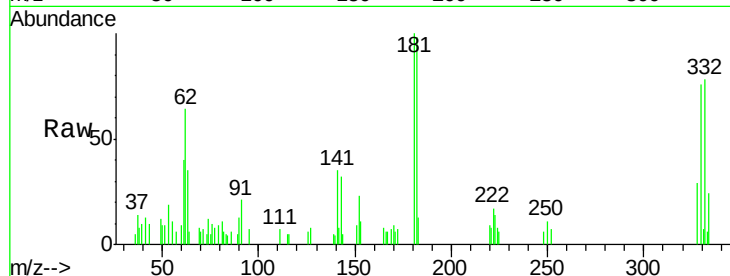
ClientSampleId :

E-11(5.5-6)

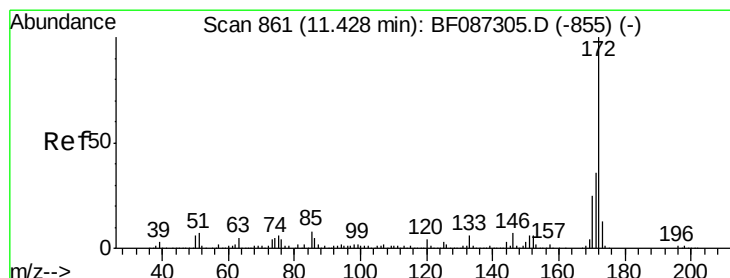
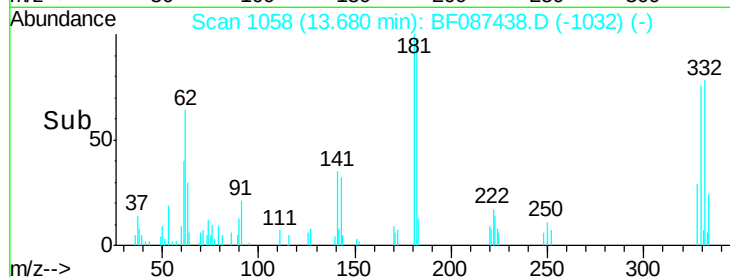
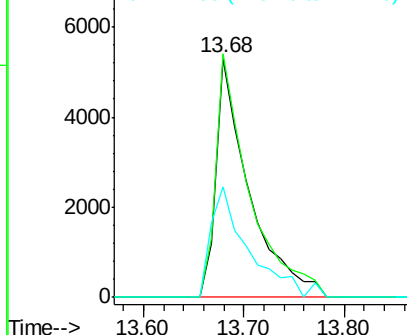
Tgt Ion:	330	Resp:	12179
Ion Ratio	Lower	Upper	
330	100		
332	102.9	79.0	118.4
141	52.6	31.2	46.8

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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: 8.81 ng

RT: 11.31 min Scan# 851

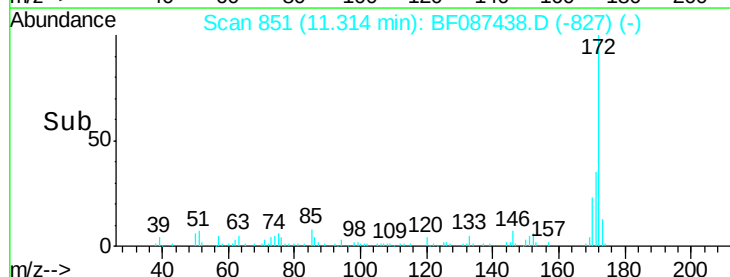
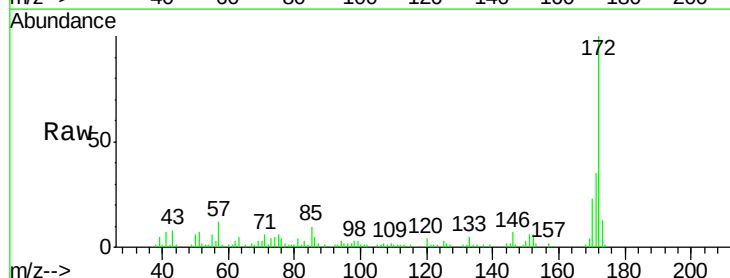
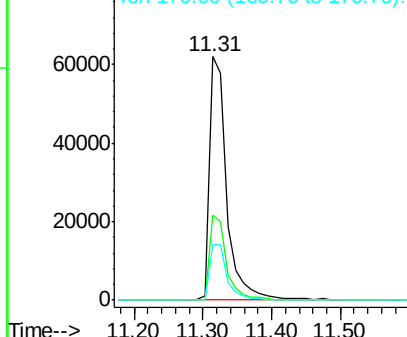
Delta R.T. -0.02 min

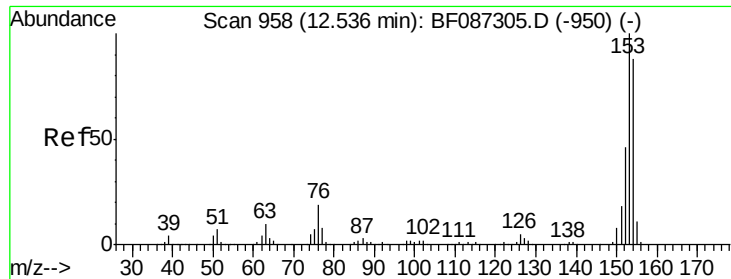
Lab File: BF087438.D

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Tgt Ion:	172	Resp:	109578
Ion Ratio	Lower	Upper	
172	100		
171	34.7	29.0	43.6
170	23.0	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





#51

Acenaphthene

Concen: 5.03 ng

RT: 12.42 min Scan# 948

Delta R.T. -0.01 min

Lab File: BF087438.D

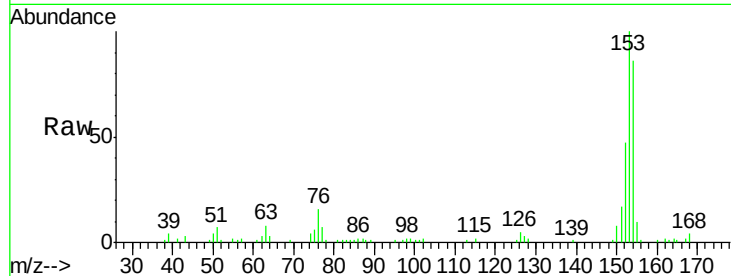
Acq: 27 May 2016 10:12

Instrument :

BNA_F

ClientSampled :

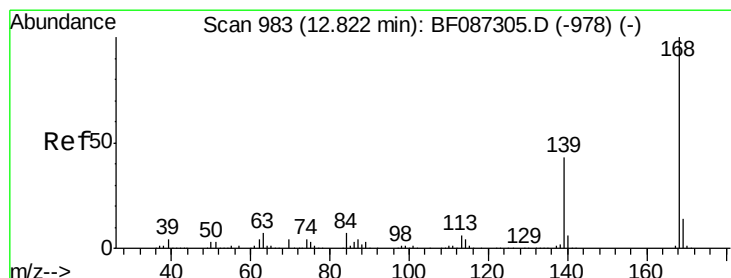
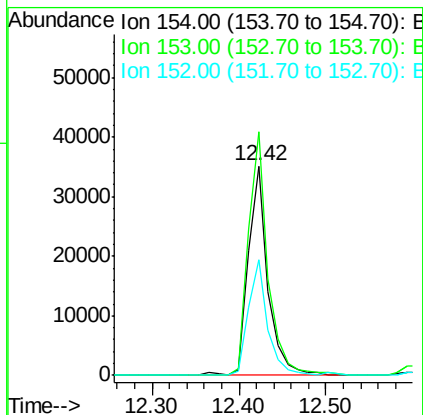
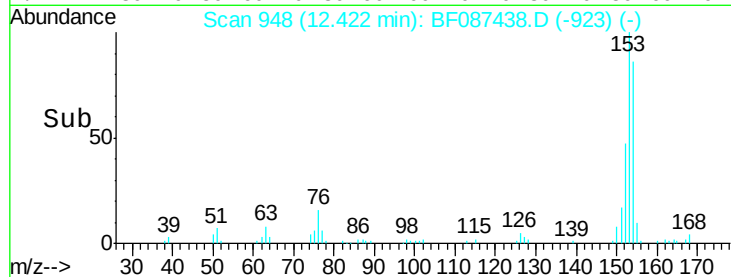
E-11(5.5-6)



Tgt Ion:	154	Resp:	55299
Ion Ratio	Lower	Upper	
154	100		
153	116.4	89.8	134.6
152	55.0	43.4	65.0

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#54

Dibenzofuran

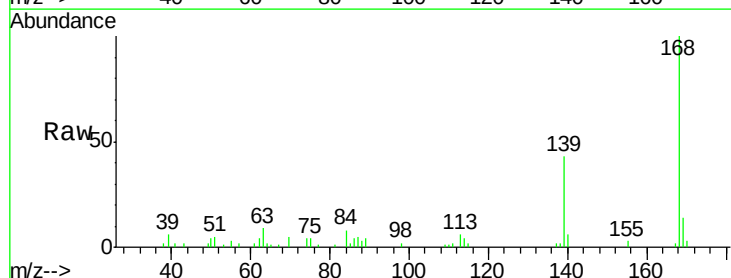
Concen: 3.93 ng

RT: 12.72 min Scan# 974

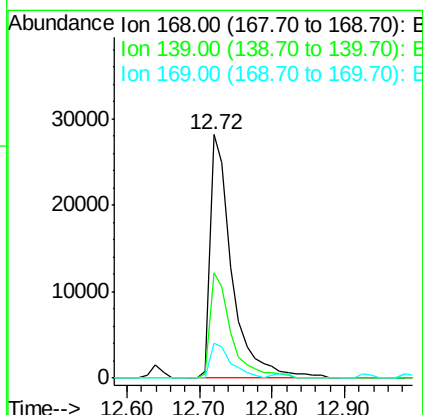
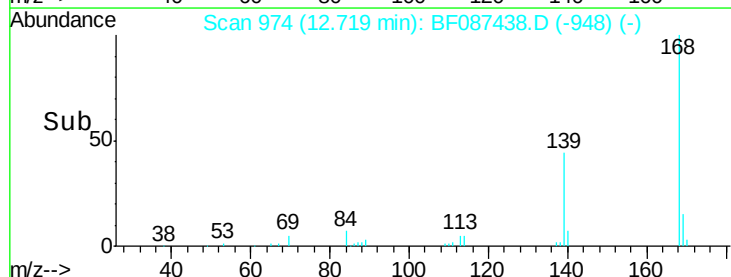
Delta R.T. 0.00 min

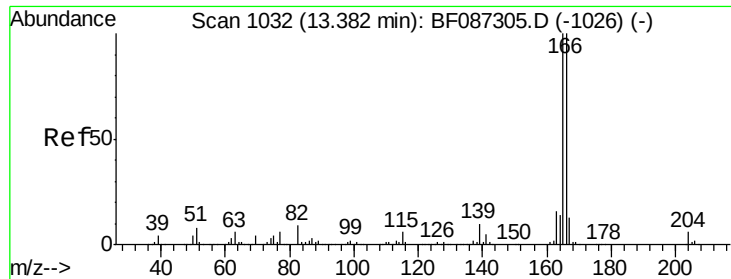
Lab File: BF087438.D

Acq: 27 May 2016 10:12



Tgt Ion:	168	Resp:	58473
Ion Ratio	Lower	Upper	
168	100		
139	43.3	31.4	47.0
169	14.2	10.7	16.1





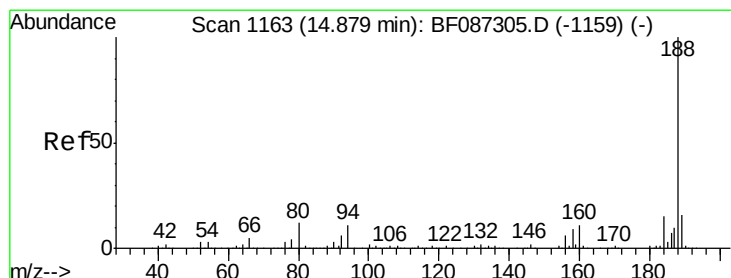
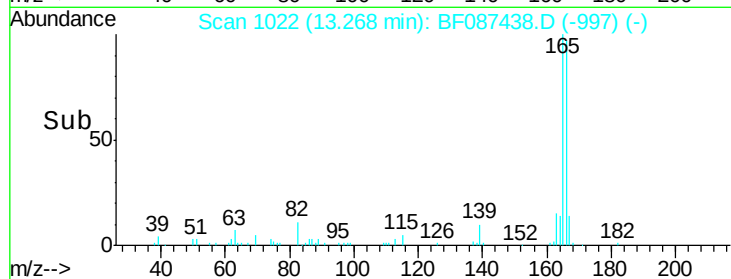
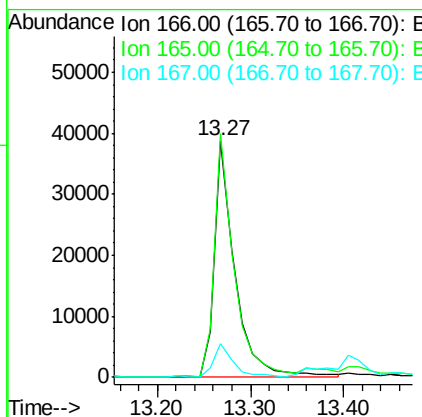
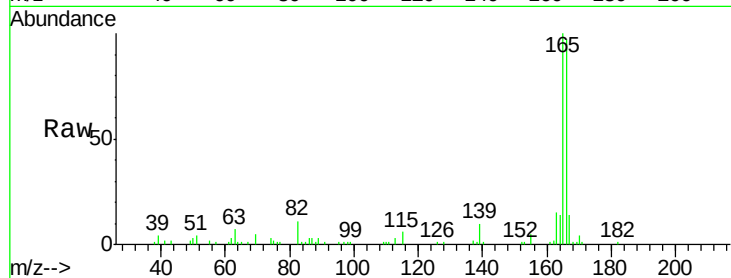
#57
 Fluorene
 Concen: 4.60 ng
 RT: 13.27 min Scan# 1022
 Delta R.T. -0.01 min
 Lab File: BF087438.D
 Acq: 27 May 2016 10:12

Instrument :
 BNA_F
 ClientSampled :
 E-11(5.5-6)

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	59318		
165	103.1	79.0	118.6	
167	14.2	10.6	15.8	

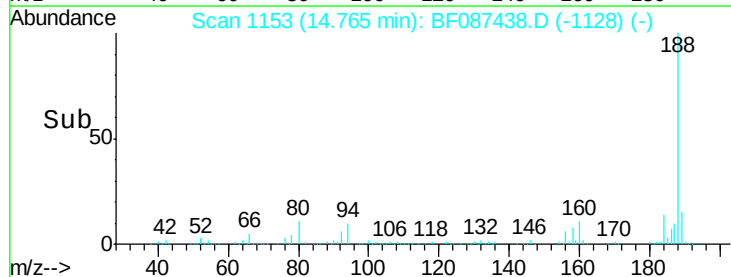
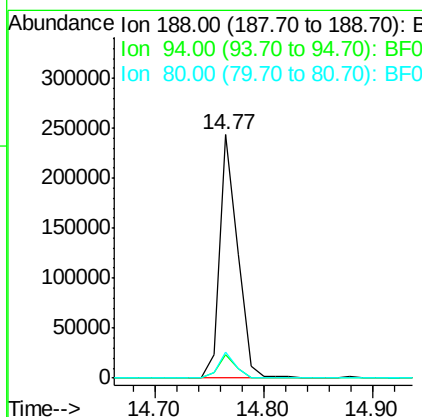
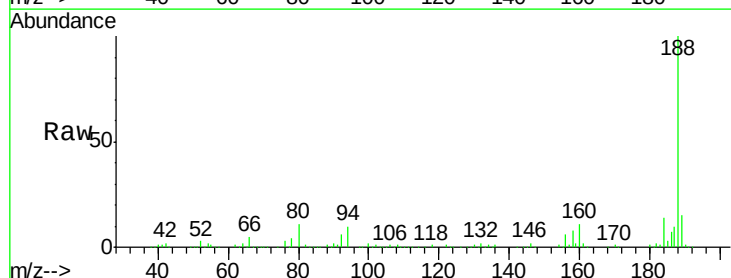
Manual Integrations
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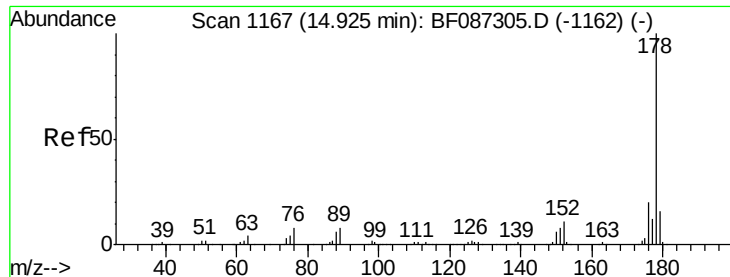
sohil
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#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.77 min Scan# 1153
 Delta R.T. -0.01 min
 Lab File: BF087438.D
 Acq: 27 May 2016 10:12

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	281434		
94	9.8	6.8	10.2	
80	10.6	7.1	10.7	





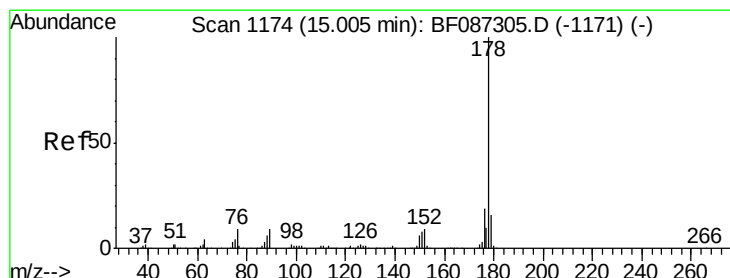
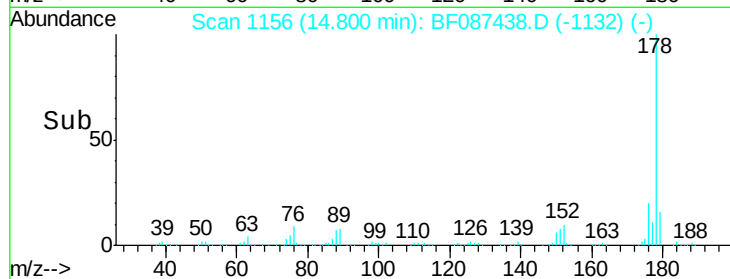
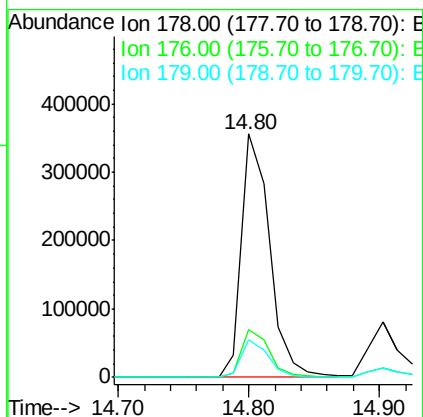
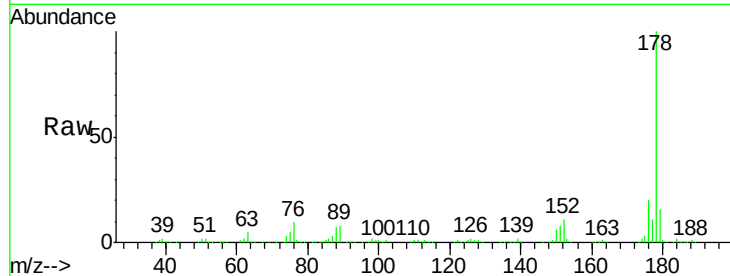
#70
Phenanthrene
Concen: 34.48 ng
RT: 14.80 min Scan# 1156
Delta R.T. -0.02 min
Lab File: BF087438.D
Acq: 27 May 2016 10:12

Instrument :
BNA_F
ClientSampleId :
E-11(5.5-6)

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.5	16.0	24.0
179	15.6	12.6	18.8

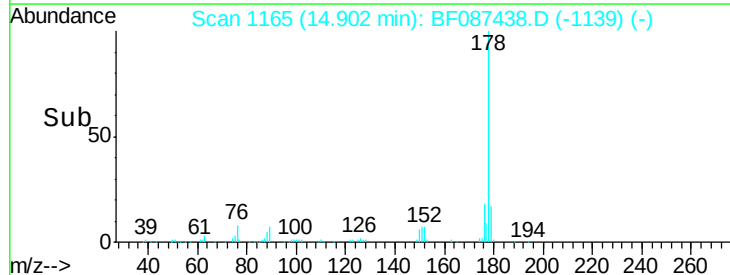
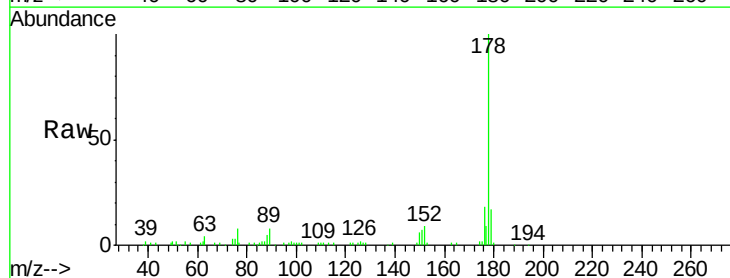
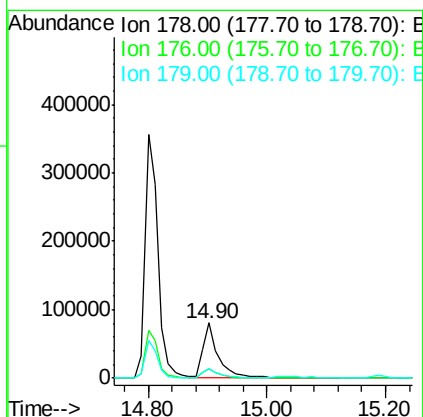
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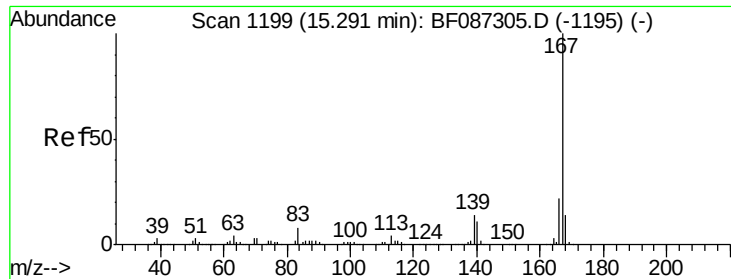
sohil
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#71
Anthracene
Concen: 9.39 ng
RT: 14.90 min Scan# 1165
Delta R.T. 0.00 min
Lab File: BF087438.D
Acq: 27 May 2016 10:12

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.6	23.4
179	17.4	12.7	19.1





#72

Carbazole

Concen: 3.25 ng

RT: 15.21 min Scan# 1192

Delta R.T. 0.02 min

Lab File: BF087438.D

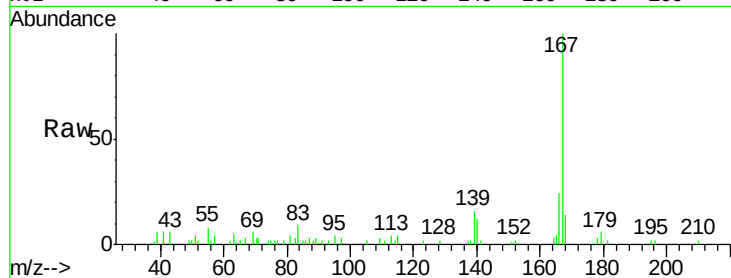
Acq: 27 May 2016 10:12

Instrument :

BNA_F

ClientSampleId :

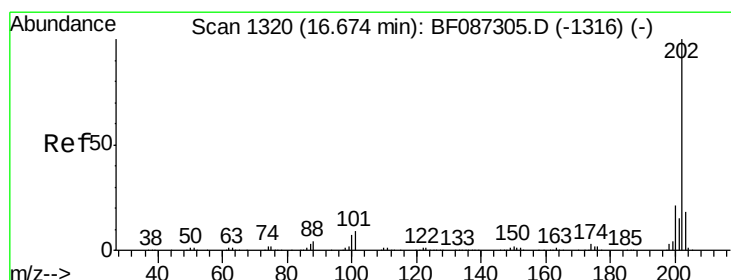
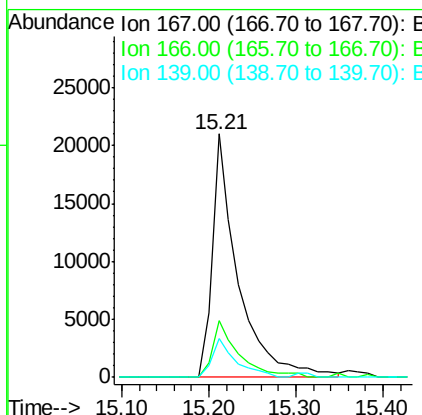
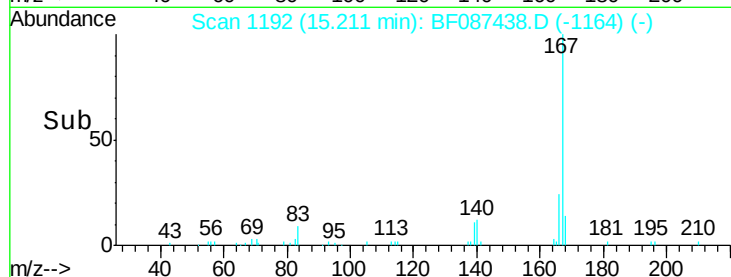
E-11(5.5-6)



Tgt Ion:	167	Resp:	43685
Ion Ratio	100	Lower	Upper
167	100		
166	23.6	17.7	26.5
139	15.8	10.8	16.2

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#74

Fluoranthene

Concen: 27.31 ng

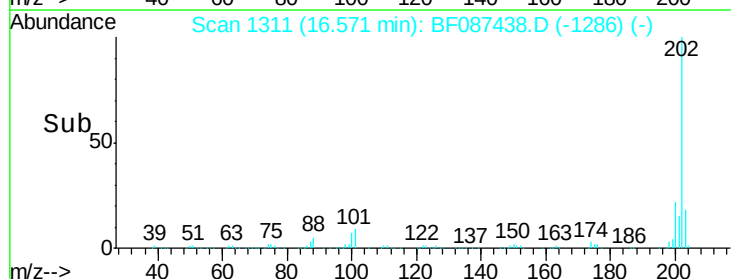
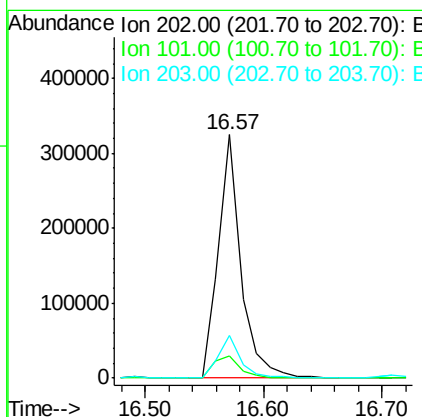
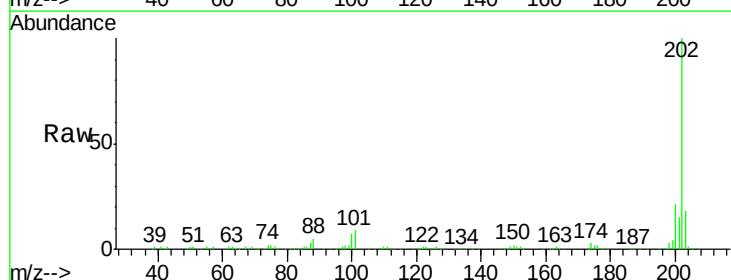
RT: 16.57 min Scan# 1311

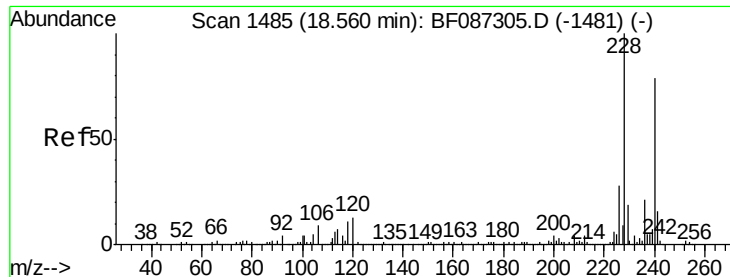
Delta R.T. -0.01 min

Lab File: BF087438.D

Acq: 27 May 2016 10:12

Tgt Ion:	202	Resp:	426876
Ion Ratio	100	Lower	Upper
202	100		
101	9.2	0.0	35.4
203	17.6	0.0	38.1





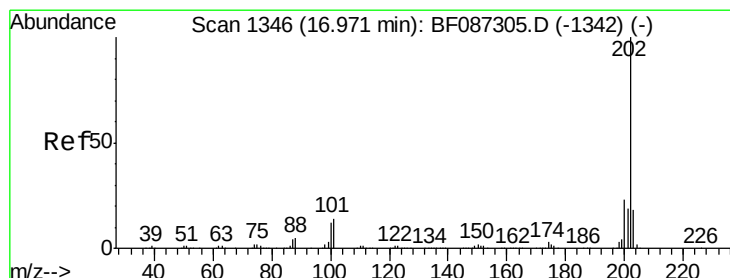
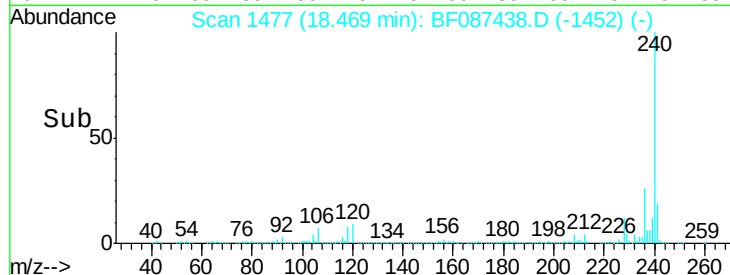
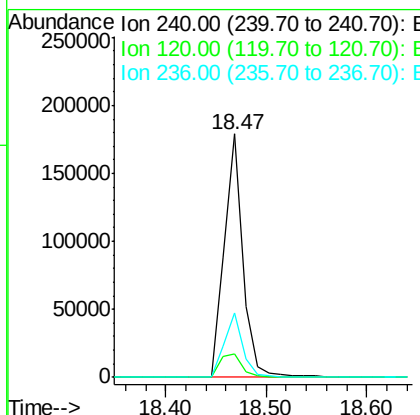
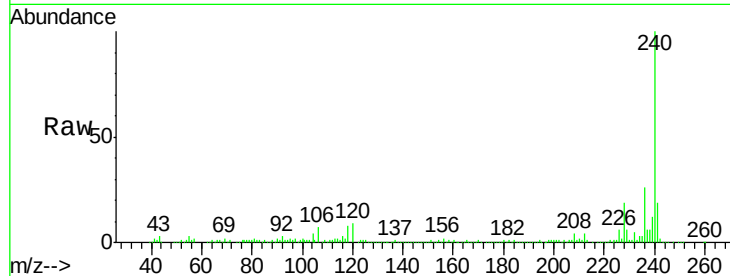
#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 18.47 min Scan# 1477
 Delta R.T. -0.01 min
 Lab File: BF087438.D
 Acq: 27 May 2016 10:12

Instrument :
 BNA_F
 ClientSampleId :
 E-11(5.5-6)

Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	9.5	11.2	16.8#
236	26.3	21.2	31.8

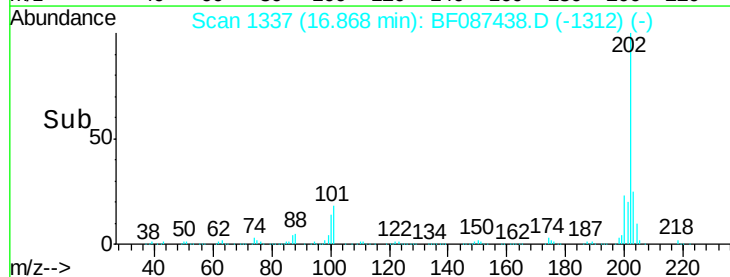
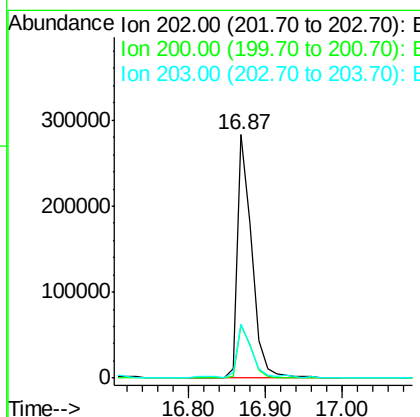
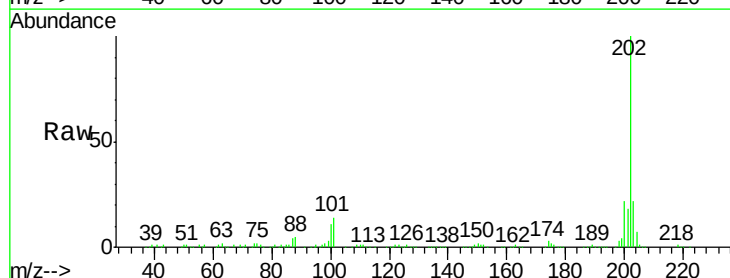
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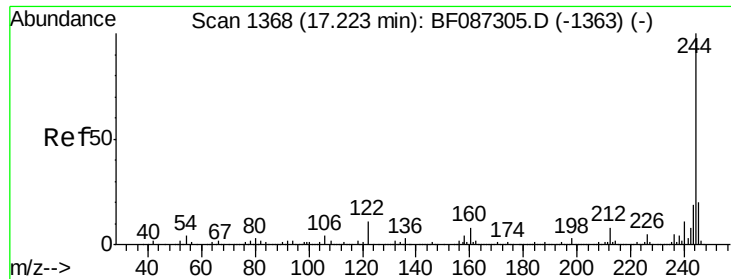
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#77
 Pyrene
 Concen: 22.45 ng
 RT: 16.87 min Scan# 1337
 Delta R.T. -0.01 min
 Lab File: BF087438.D
 Acq: 27 May 2016 10:12

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	22.0	17.7	26.5
203	22.2	14.2	21.4#





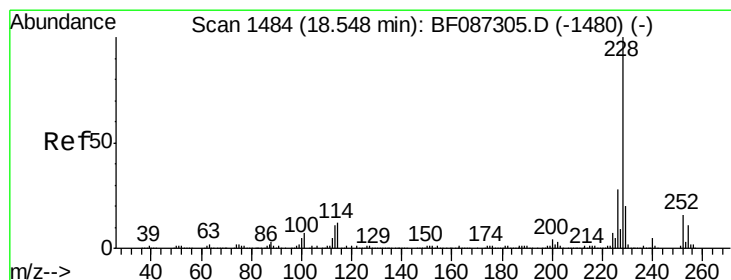
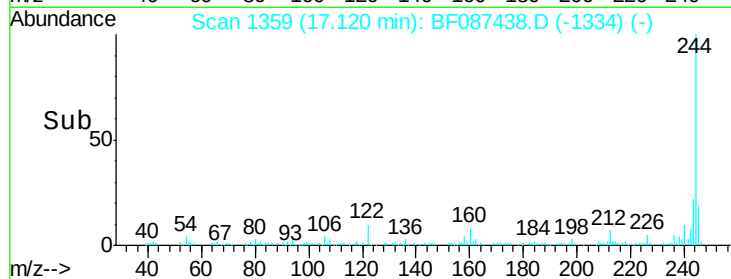
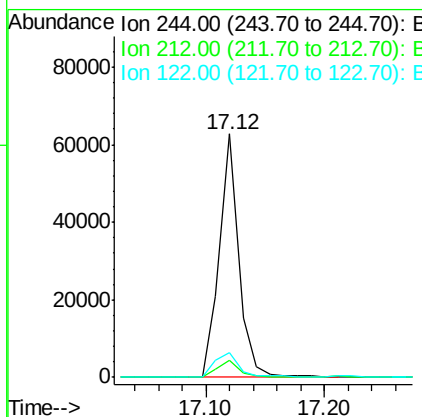
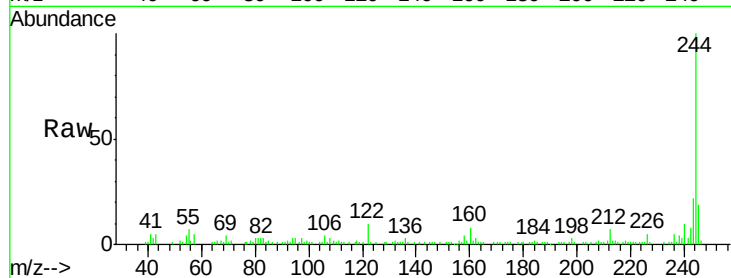
#78
 Terphenyl-d14
 Concen: 6.58 ng
 RT: 17.12 min Scan# 1359
 Delta R.T. -0.01 min
 Lab File: BF087438.D
 Acq: 27 May 2016 10:12

Instrument :
 BNA_F
 ClientSampleId :
 E-11(5.5-6)

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	71181		
212	7.2	6.2	9.2	
122	10.2	12.0	18.0	

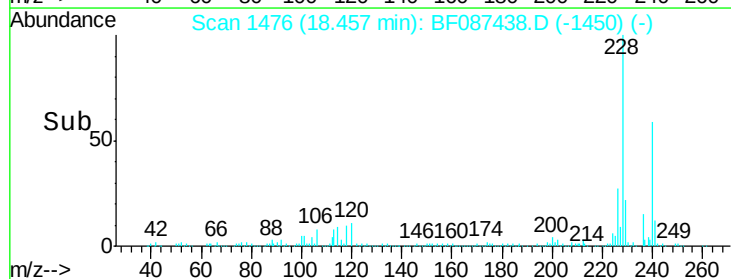
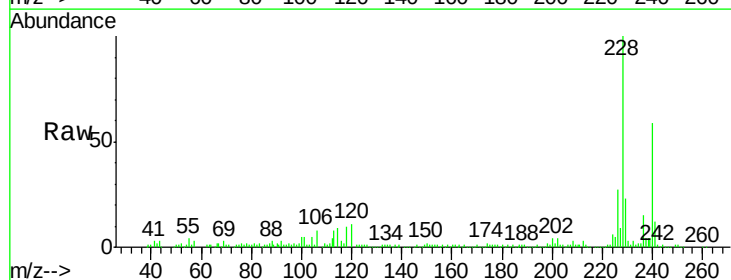
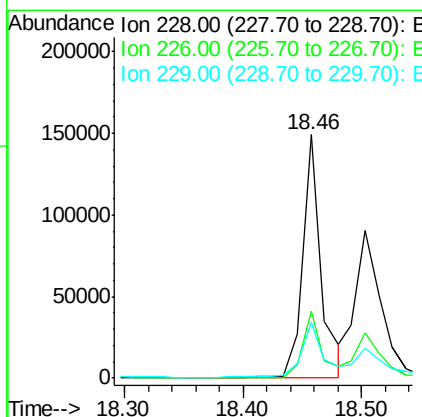
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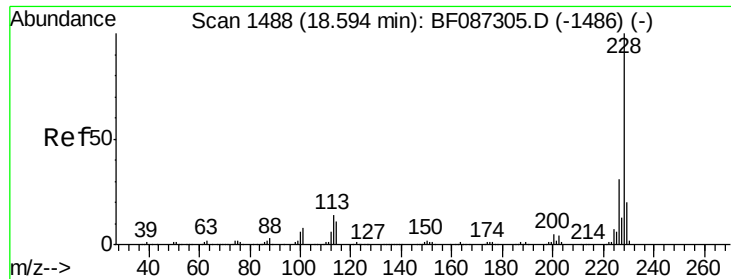
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#80
 Benzo(a)anthracene
 Concen: 12.32 ng
 RT: 18.46 min Scan# 1476
 Delta R.T. 0.00 min
 Lab File: BF087438.D
 Acq: 27 May 2016 10:12

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	161154		
226	27.5	22.5	33.7	
229	22.6	16.6	25.0	





#82

Chrysene

Concen: 10.56 ng

RT: 18.50 min Scan# 1480

Delta R.T. -0.01 min

Lab File: BF087438.D

Acq: 27 May 2016 10:12

Instrument :

BNA_F

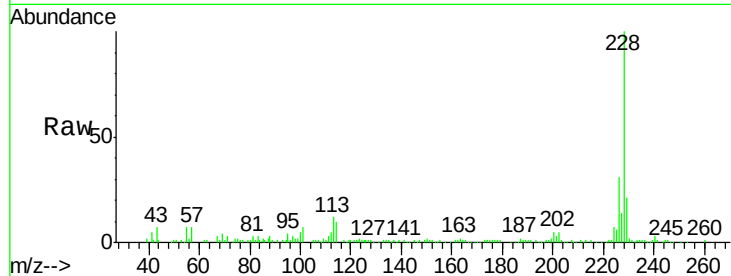
ClientSampleId :

E-11(5.5-6)

Tgt Ion:	228	Resp:	137068
Ion Ratio	Lower	Upper	
228	100		
226	30.6	24.4	36.6
229	20.7	15.8	23.8

Manual Integrations
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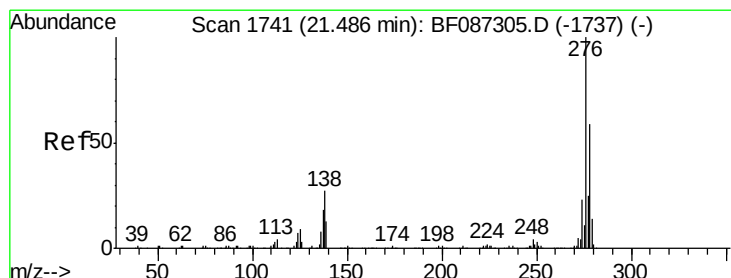
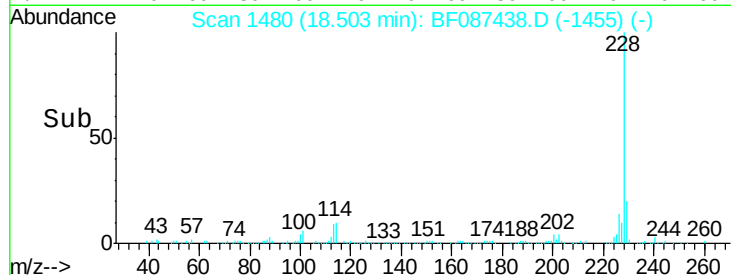
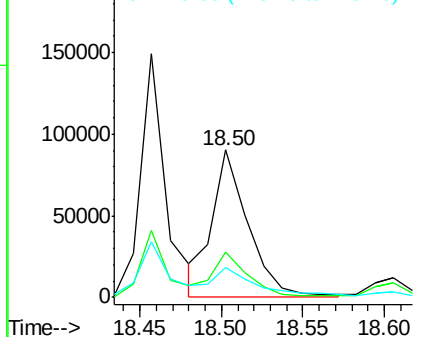
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 5.85 ng

RT: 21.39 min Scan# 1733

Delta R.T. 0.03 min

Lab File: BF087438.D

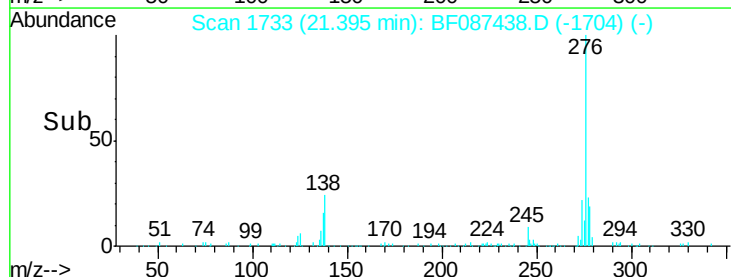
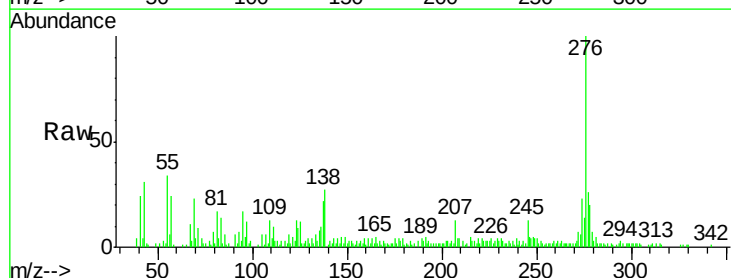
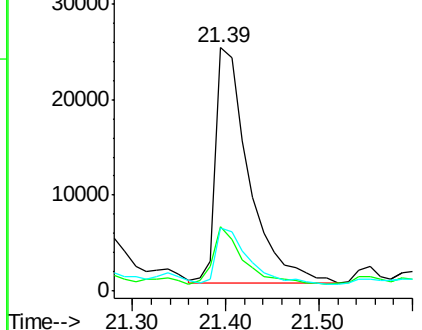
Acq: 27 May 2016 10:12

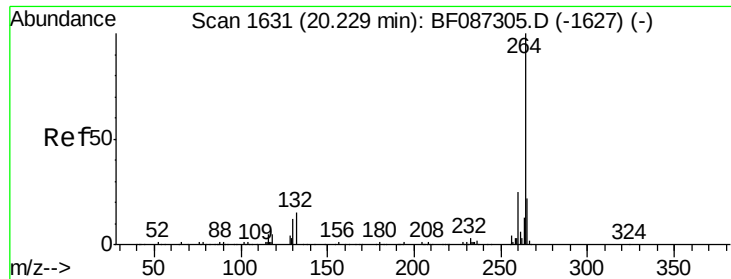
Tgt Ion:	276	Resp:	60870
Ion Ratio	Lower	Upper	
276	100		
138	22.4	25.6	38.4#
277	23.0	20.5	30.7

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





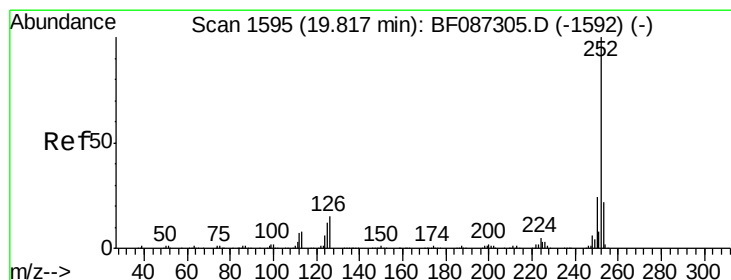
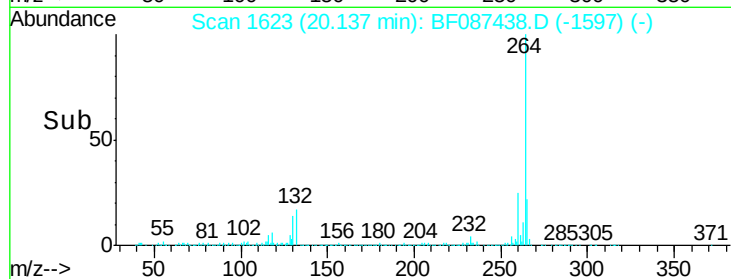
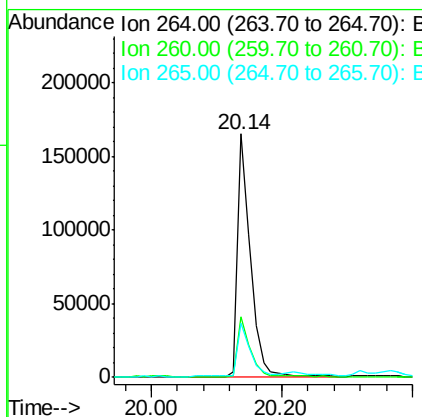
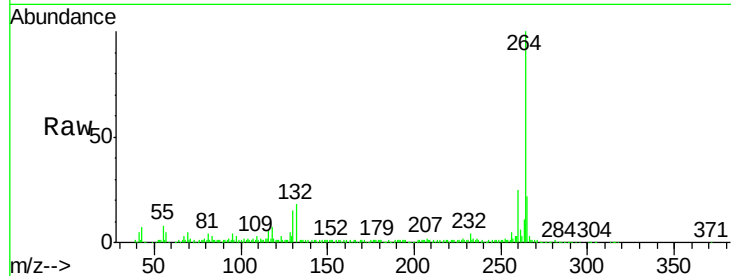
#86
Perylene-d12
Concen: 20.00 ng
RT: 20.14 min Scan# 1623
Delta R.T. 0.00 min
Lab File: BF087438.D
Acq: 27 May 2016 10:12

Instrument :
BNA_F
ClientSampleId :
E-11(5.5-6)

Tgt	Ion	Ratio	Resp	Lower	Upper
264	100		221286		
260	24.8	19.5	29.3		
265	22.3	17.3	25.9		

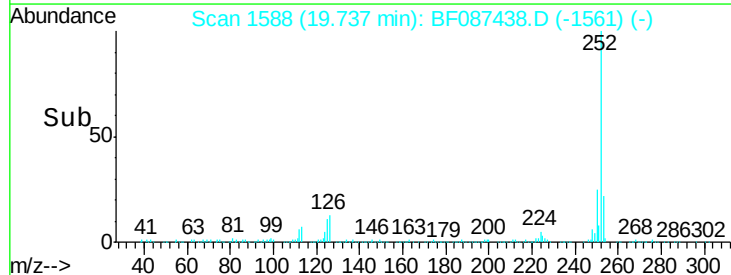
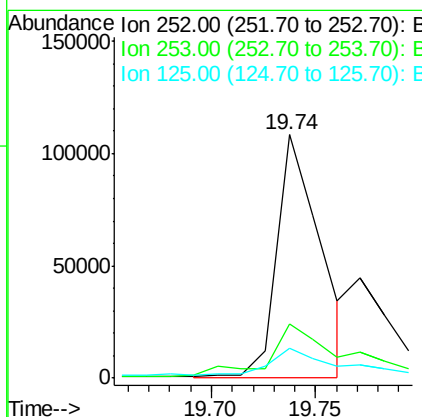
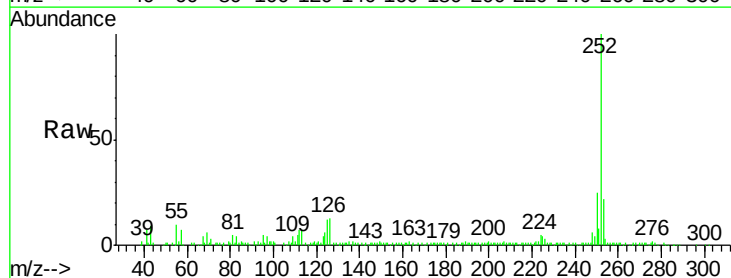
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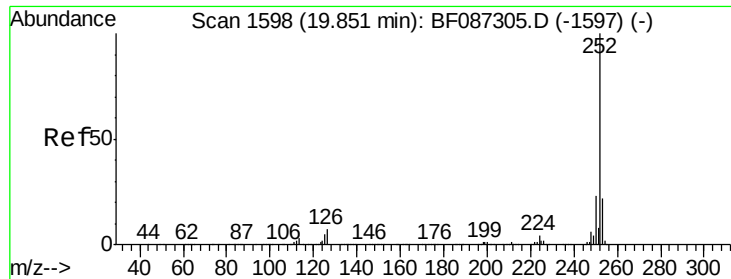
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#87
Benzo(b)fluoranthene
Concen: 11.20 ng m
RT: 19.74 min Scan# 1588
Delta R.T. 0.01 min
Lab File: BF087438.D
Acq: 27 May 2016 10:12

Tgt	Ion	Ratio	Resp	Lower	Upper
252	100		157891		
253	22.5	17.8	26.6		
125	12.2	11.4	17.0		





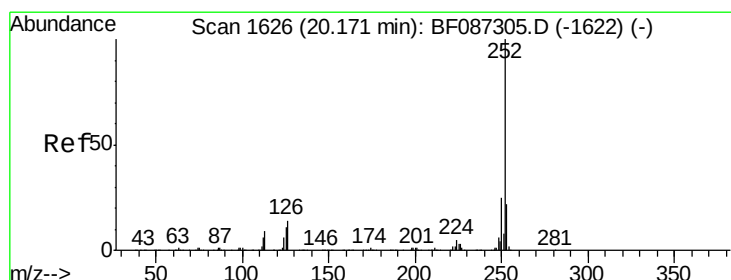
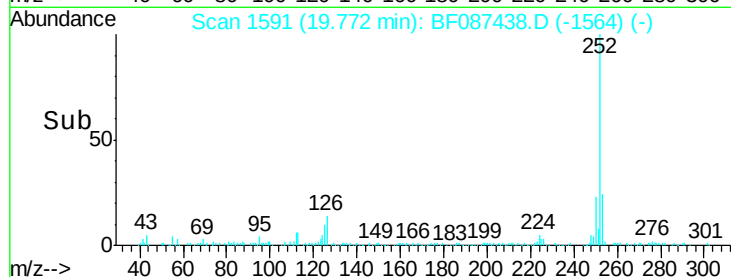
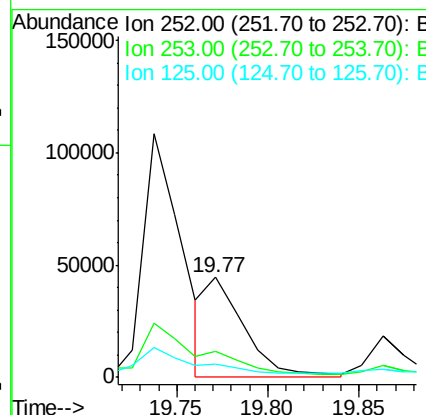
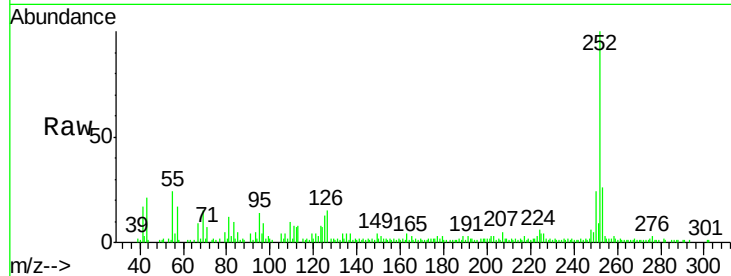
#88
Benzo(k)fluoranthene
Concen: 5.34 ng m
RT: 19.77 min Scan# 1591
Delta R.T. 0.01 min
Lab File: BF087438.D
Acq: 27 May 2016 10:12

Instrument :
BNA_F
ClientSampleId :
E-11(5.5-6)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.6	17.8	26.6
125	13.2	9.1	13.7

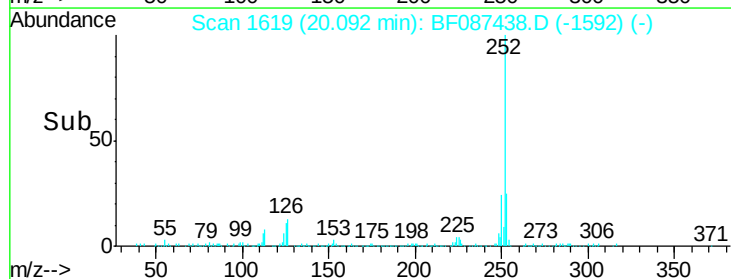
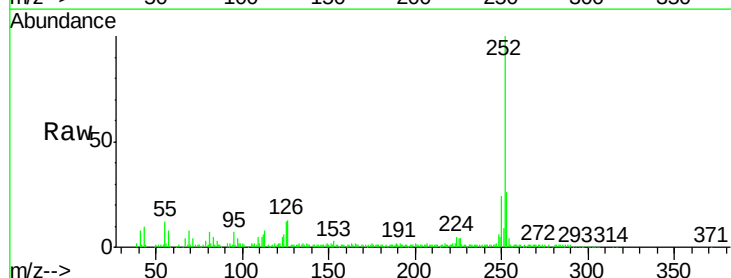
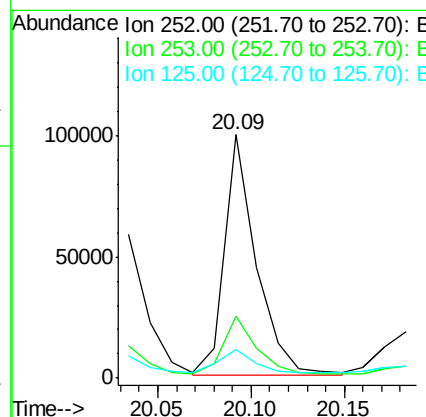
Manual Integrations
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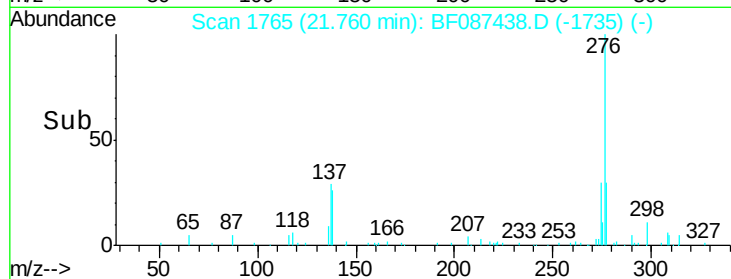
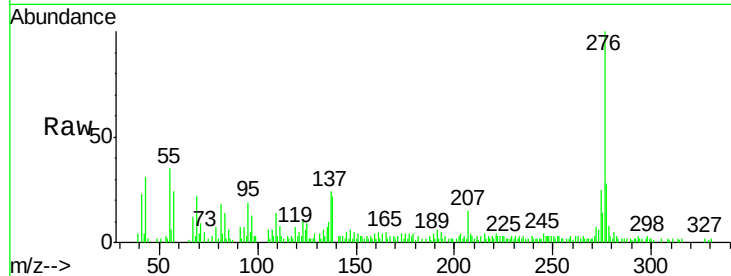
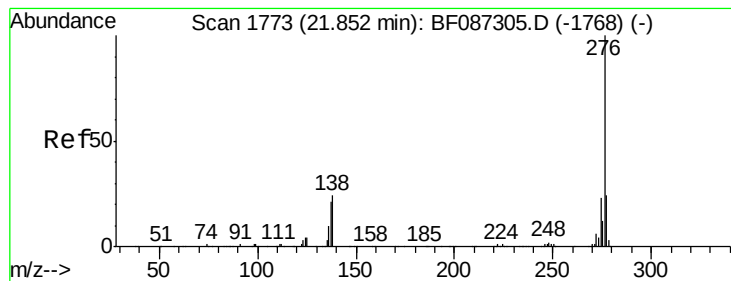
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#89
Benzo(a)pyrene
Concen: 9.75 ng
RT: 20.09 min Scan# 1619
Delta R.T. 0.01 min
Lab File: BF087438.D
Acq: 27 May 2016 10:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.6	17.2	25.8
125	11.7	9.0	13.6





#91

Benzo(g,h,i)perylene

Concen: 5.59 ng

RT: 21.76 min Scan# 1765

Delta R.T. 0.05 min

Lab File: BF087438.D

Acq: 27 May 2016 10:12

Instrument :

BNA_F

ClientSampleId :

E-11(5.5-6)

Tgt Ion:	276	Resp:	57353
Ion Ratio	Lower	Upper	
276	100		
277	27.8	19.6	29.4
138	22.3	23.6	35.4#

Manual Integrations
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