

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081016\
 Data File : BF089711.D
 Acq On : 10 Aug 2016 23:18
 Operator : UM/SJ
 Sample : H4400-04
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DEL2(0-6)

Manual Integrations
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Quant Time: Aug 11 02:15:52 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF080416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 11 01:52:35 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.40	152	51369	20.00	ng	0.00
21) Naphthalene-d8	9.43	136	205829	20.00	ng	-0.01
38) Acenaphthene-d10	12.25	164	89539	20.00	ng	-0.01
63) Phenanthrene-d10	14.65	188	142349	20.00	ng	0.00
75) Chrysene-d12	18.38	240	108513	20.00	ng	0.01
86) Perylene-d12	20.03	264	103827	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	326329	106.47	ng	0.01
7) Phenol-d6	6.97	99	431953	103.89	ng	0.00
23) Nitrobenzene-d5	8.31	82	262075	70.43	ng	-0.02
41) 2,4,6-Tribromophenol	13.54	330	62014	83.93	ng	-0.01
44) 2-Fluorobiphenyl	11.21	172	464319	67.39	ng	-0.01
78) Terphenyl-d14	17.03	244	301961	54.93	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	9.46	128	80506	7.36	ng	99
37) 2-Methylnaphthalene	10.59	142	28459	4.23	ng	97
48) Acenaphthylene	12.02	152	62974	6.31	ng	99
49) Dimethylphthalate	11.90	163	101104	14.41	ng	99
51) Acenaphthene	12.30	154	42569	7.39	ng	98
54) Dibenzofuran	12.59	168	46516	5.87	ng	97
57) Fluorene	13.14	166	55918	8.26	ng	98
70) Phenanthrene	14.70	178	725852	93.78	ng	99
71) Anthracene	14.78	178	184464	22.23	ng	98
72) Carbazole	15.07	167	81924	11.85	ng	97
74) Fluoranthene	16.48	202	1073395	134.90	ng	95
77) Pyrene	16.78	202	891959	92.97	ng	# 95
80) Benzo(a)anthracene	18.37	228	527964	84.68	ng	99
82) Chrysene	18.41	228	524054	80.12	ng	97
83) Bis(2-ethylhexyl)phthalate	18.45	149	46123	8.16	ng	98
85) Indeno(1,2,3-cd)pyrene	21.22	276	224697	45.24	ng	96
87) Benzo(b)fluoranthene	19.65	252	648438m	101.55	ng	
88) Benzo(k)fluoranthene	19.67	252	181346m	28.15	ng	
89) Benzo(a)pyrene	19.99	252	393252	65.77	ng	97
90) Dibenzo(a,h)anthracene	21.22	278	63144	11.31	ng	# 91
91) Benzo(g,h,i)perylene	21.57	276	202437	35.40	ng	94

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

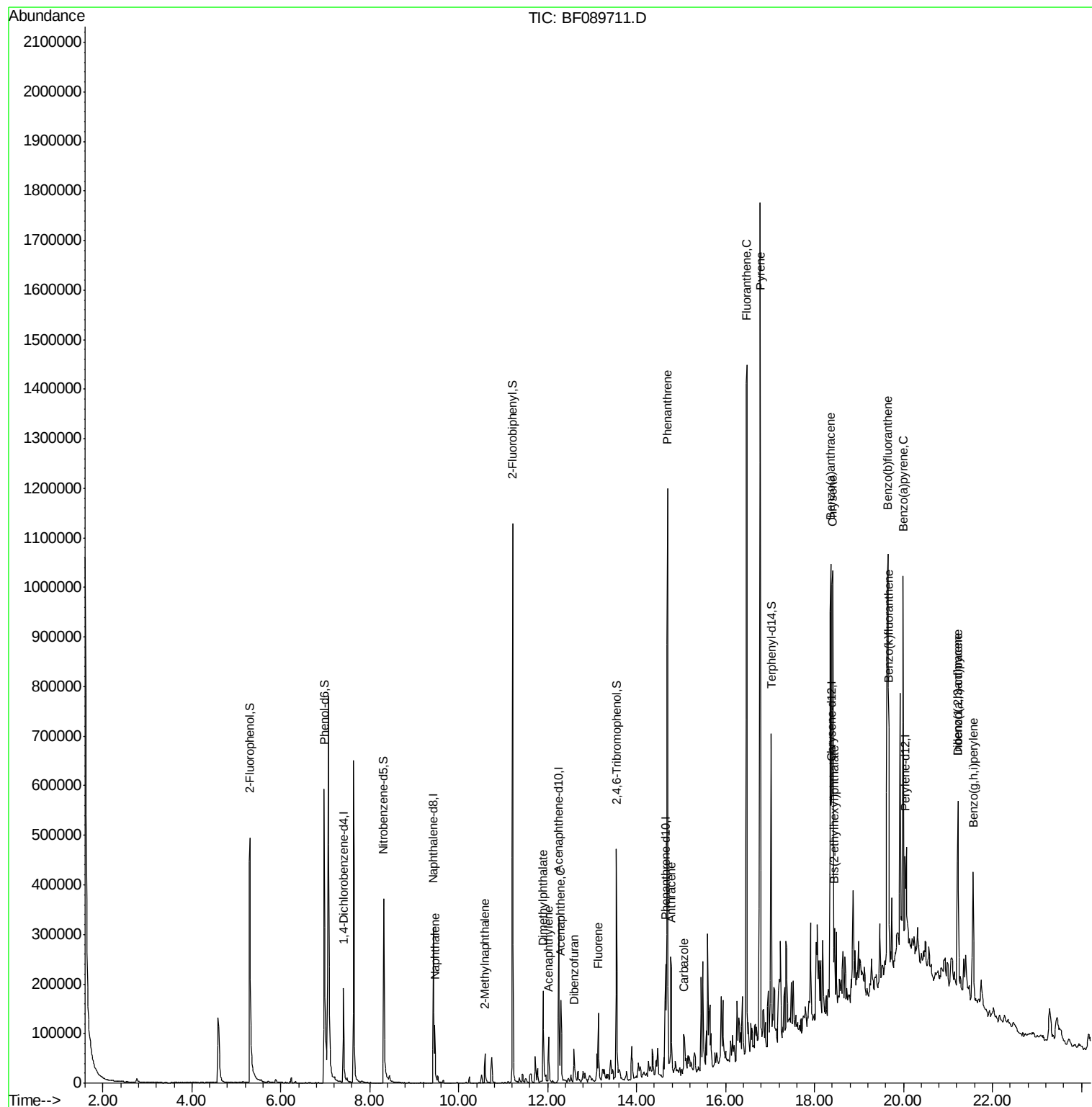
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081016\
Data File : BF089711.D
Acq On : 10 Aug 2016 23:18
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Sample : H4400-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

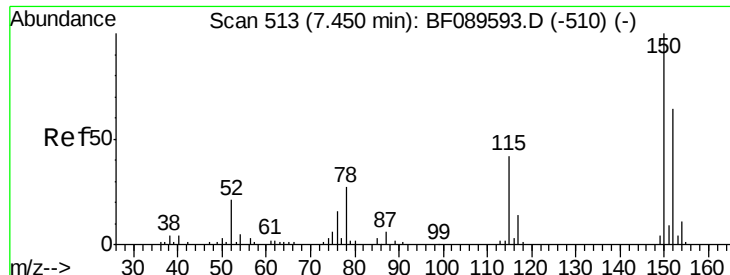
Instrument :
BNA_F
ClientSampleId :
DEL2(0-6)

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Quant Time: Aug 11 02:15:52 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF080416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 11 01:52:35 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.40 min Scan# 509

Delta R.T. -0.00 min

Lab File: BF089711.D

Acq: 10 Aug 2016 23:18

Instrument :

BNA_F

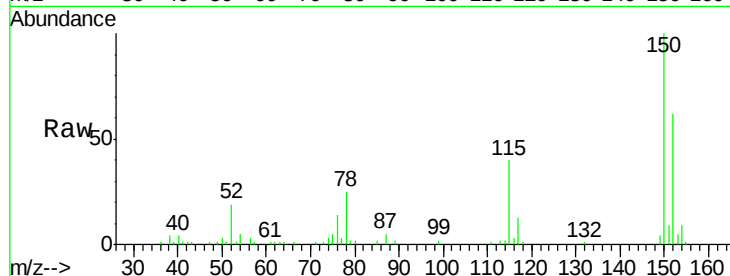
ClientSampleId :

DEL2(0-6)

Tgt Ion	Ratio	Lower	Upper
152	100		
150	160.8	125.5	188.3
115	64.2	52.0	78.0

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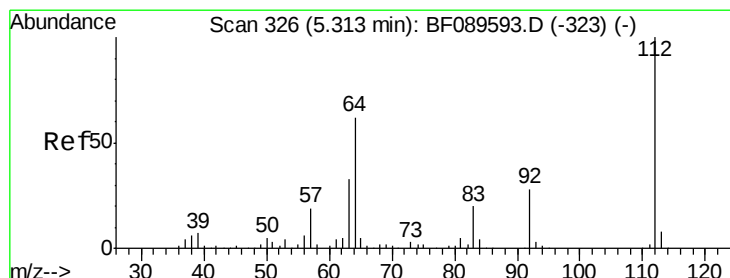
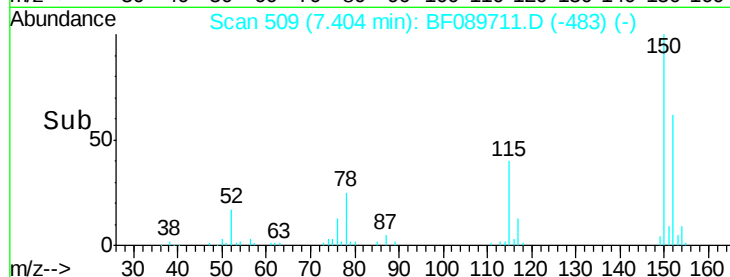
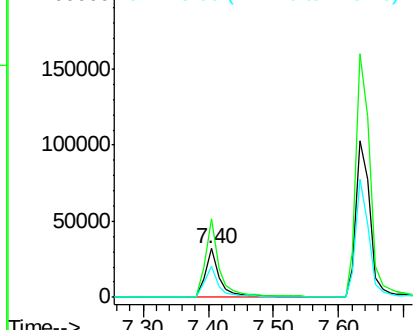


Abundance

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: 106.47 ng

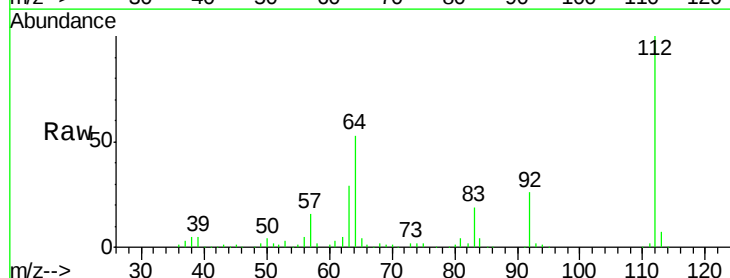
RT: 5.30 min Scan# 325

Delta R.T. 0.01 min

Lab File: BF089711.D

Acq: 10 Aug 2016 23:18

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.4	49.9	74.9
63	28.7	26.1	39.1

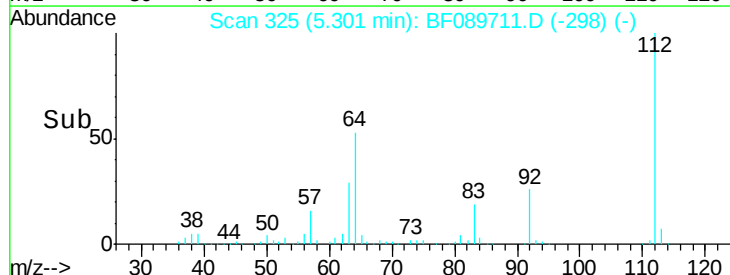
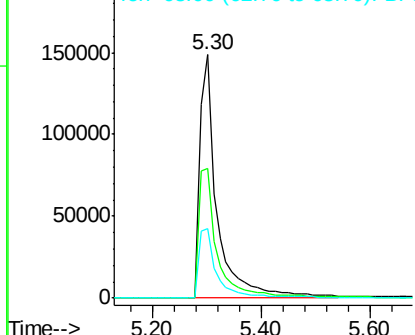


Abundance

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: 103.89 ng

RT: 6.97 min Scan# 471

Delta R.T. -0.00 min

Lab File: BF089711.D

Acq: 10 Aug 2016 23:18

Instrument :

BNA_F

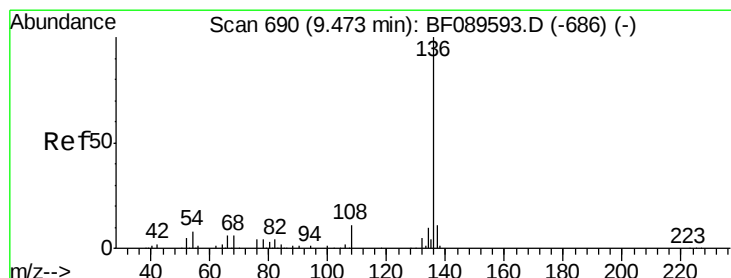
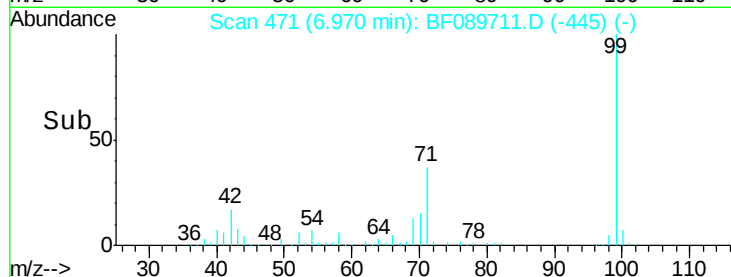
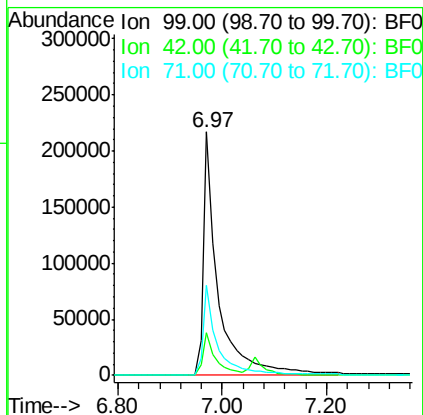
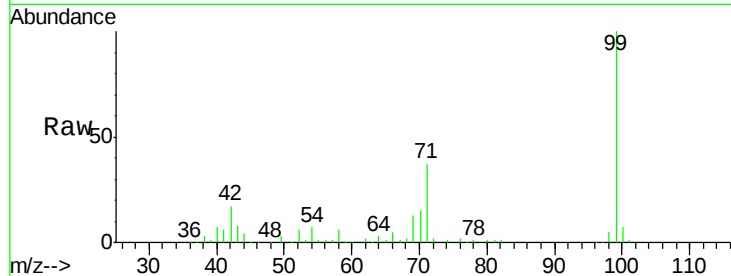
ClientSampled :

DEL2(0-6)

Tgt Ion:	99	Resp:	431953
Ion Ratio	Lower	Upper	
99	100		
42	17.4	13.7	20.5
71	36.8	29.0	43.4

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#21

Naphthalene-d8

Concen: 20.00 ng

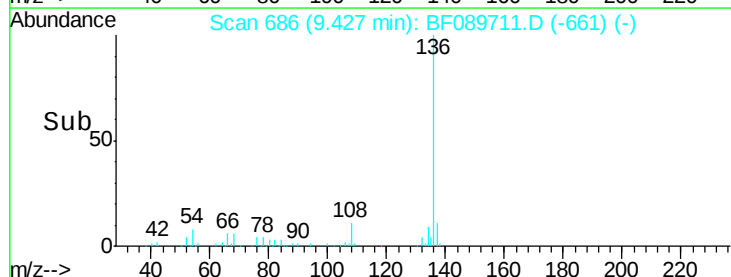
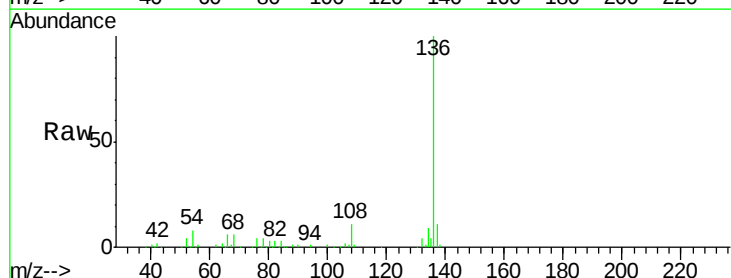
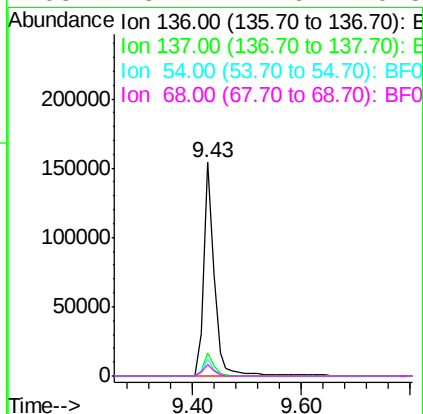
RT: 9.43 min Scan# 686

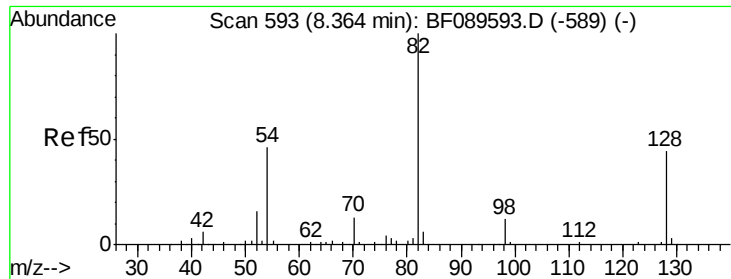
Delta R.T. -0.01 min

Lab File: BF089711.D

Acq: 10 Aug 2016 23:18

Tgt Ion:	136	Resp:	205829
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.6	12.8
54	7.6	6.0	9.0
68	5.7	4.6	6.8





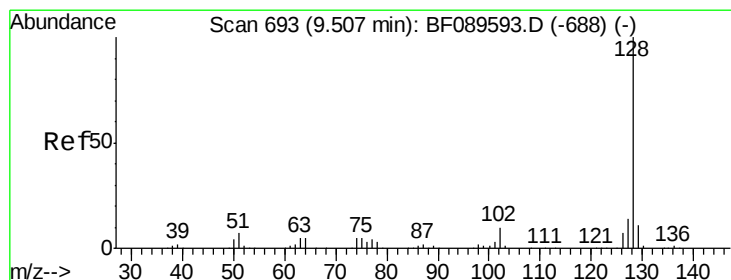
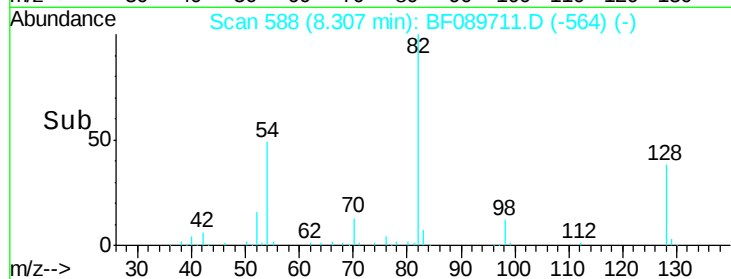
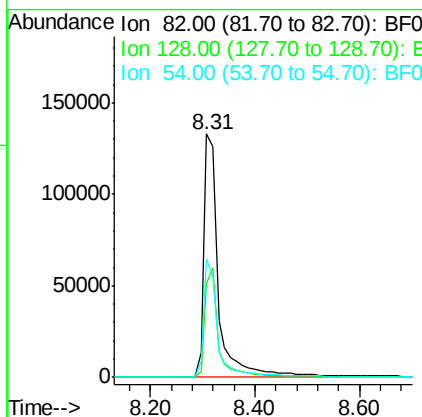
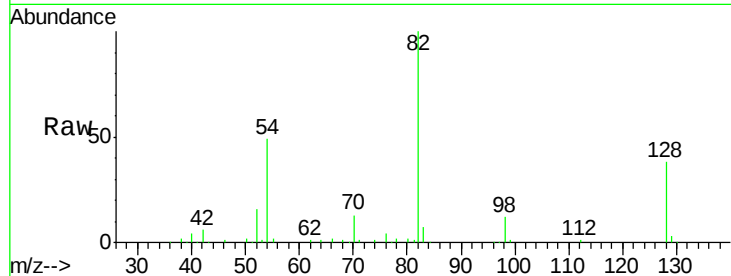
#23
 Nitrobenzene-d5
 Concen: 70.43 ng
 RT: 8.31 min Scan# 588
 Delta R.T. -0.02 min
 Lab File: BF089711.D
 Acq: 10 Aug 2016 23:18

Instrument :
 BNA_F
 ClientSampleId :
 DEL2(0-6)

Tgt Ion	Ratio	Resp Lower	Resp Upper
82	100		
128	38.4	35.4	53.0
54	48.7	36.4	54.6

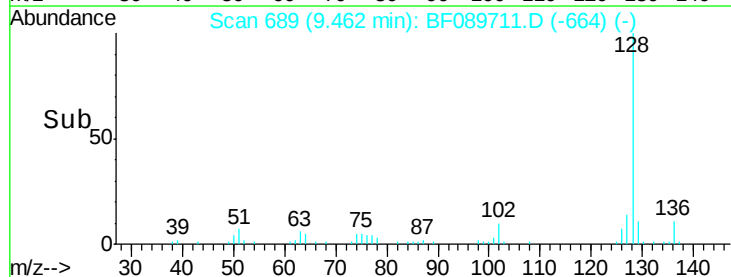
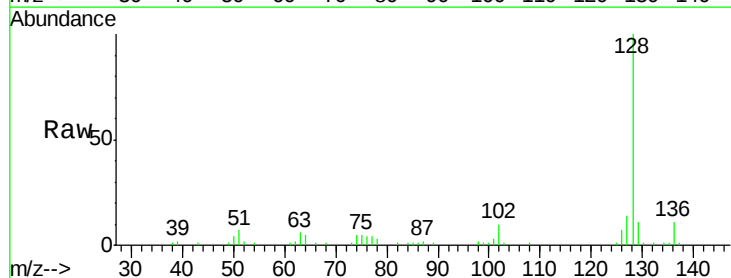
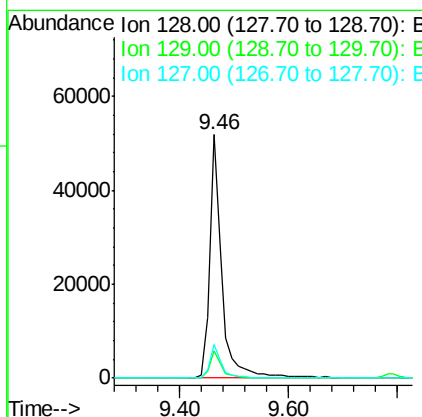
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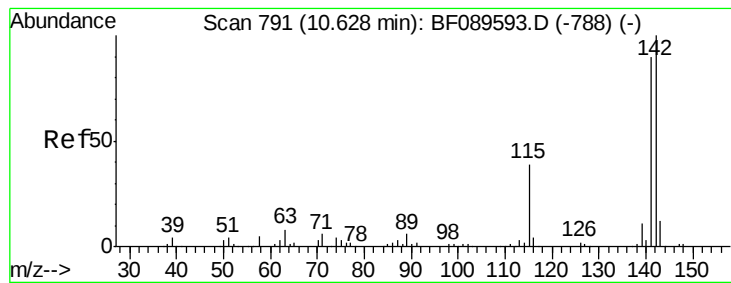
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#31
 Naphthalene
 Concen: 7.36 ng
 RT: 9.46 min Scan# 689
 Delta R.T. -0.01 min
 Lab File: BF089711.D
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Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
129	11.0	8.7	13.1
127	13.9	10.9	16.3





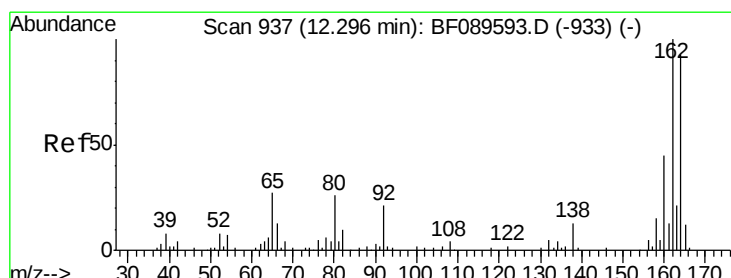
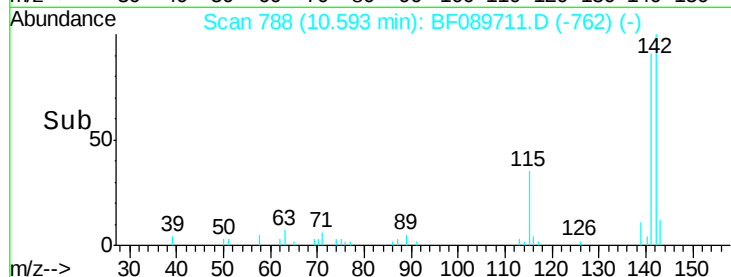
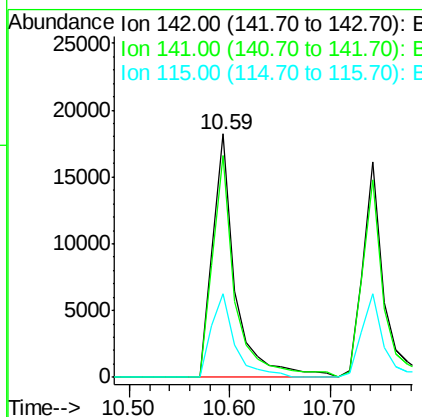
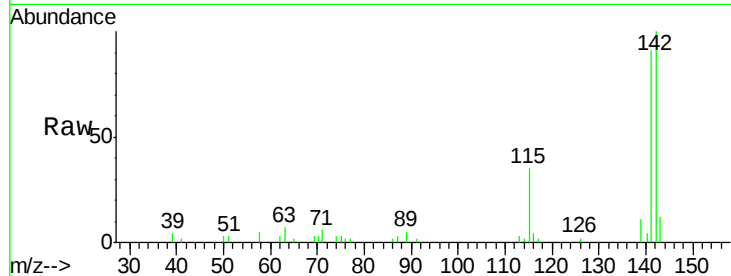
#37
 2-Methylnaphthalene
 Concen: 4.23 ng
 RT: 10.59 min Scan# 788
 Delta R.T. -0.00 min
 Lab File: BF089711.D
 Acq: 10 Aug 2016 23:18

Instrument :
 BNA_F
 ClientSampleId :
 DEL2(0-6)

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.2	71.8	107.6
115	34.6	31.0	46.4

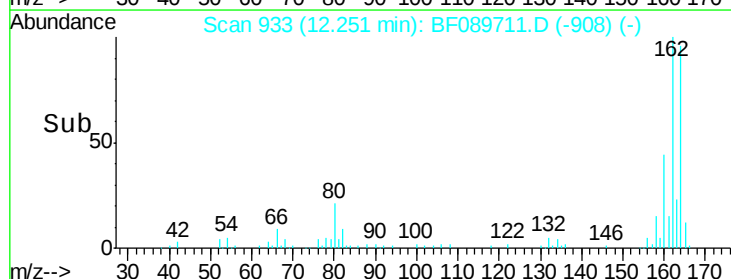
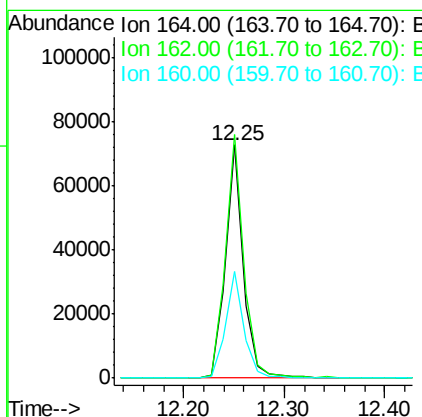
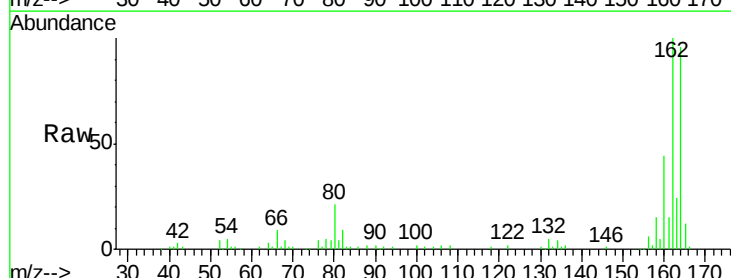
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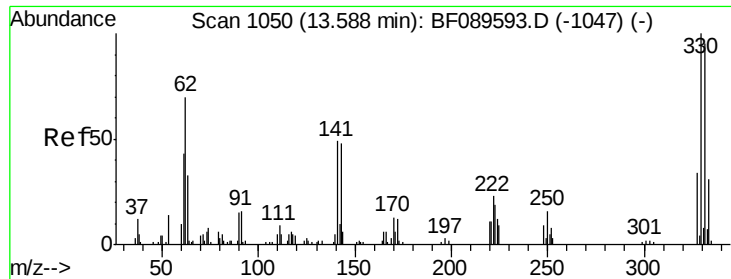
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 12.25 min Scan# 933
 Delta R.T. -0.01 min
 Lab File: BF089711.D
 Acq: 10 Aug 2016 23:18

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.5	85.7	128.5
160	45.8	38.2	57.4





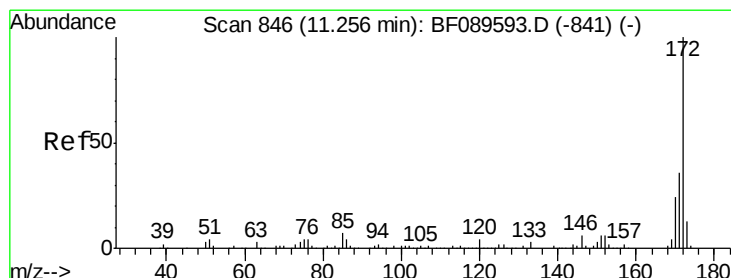
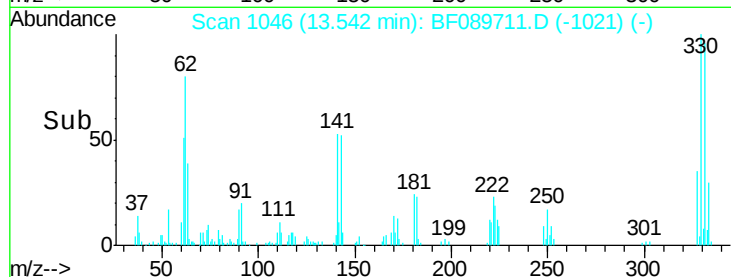
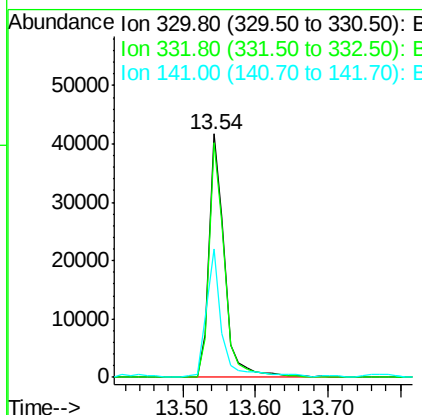
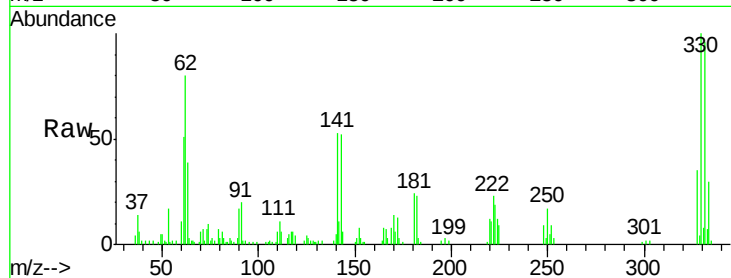
#41
 2,4,6-Tribromophenol
 Concen: 83.93 ng
 RT: 13.54 min Scan# 1046
 Delta R.T. -0.01 min
 Lab File: BF089711.D
 Acq: 10 Aug 2016 23:18

Instrument :
 BNA_F
 ClientSampled :
 DEL2(0-6)

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.5	77.0	115.6
141	54.0	38.6	57.8

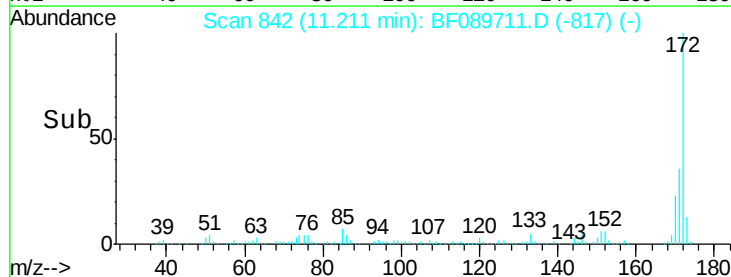
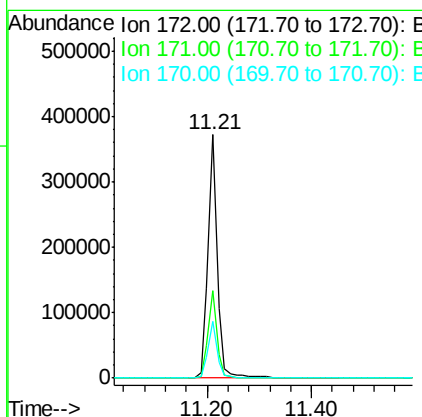
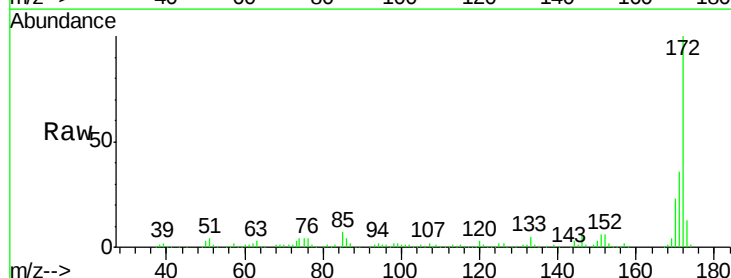
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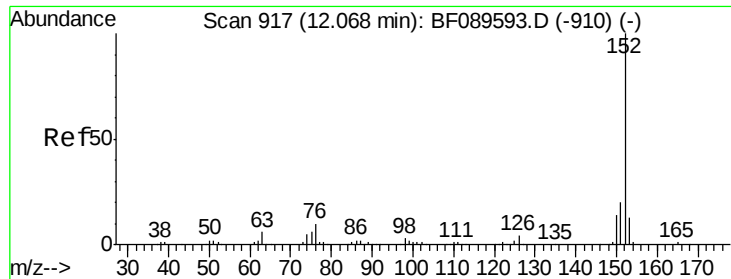
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#44
 2-Fluorobiphenyl
 Concen: 67.39 ng
 RT: 11.21 min Scan# 842
 Delta R.T. -0.01 min
 Lab File: BF089711.D
 Acq: 10 Aug 2016 23:18

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.9	43.3
170	23.5	19.0	28.6





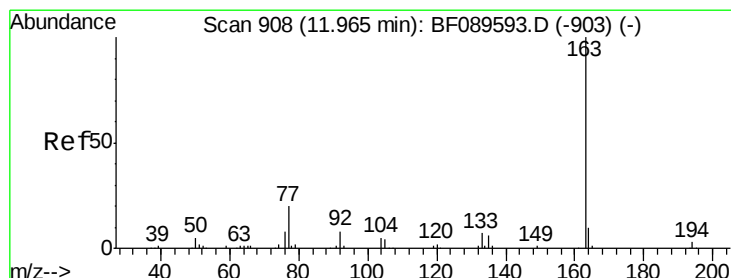
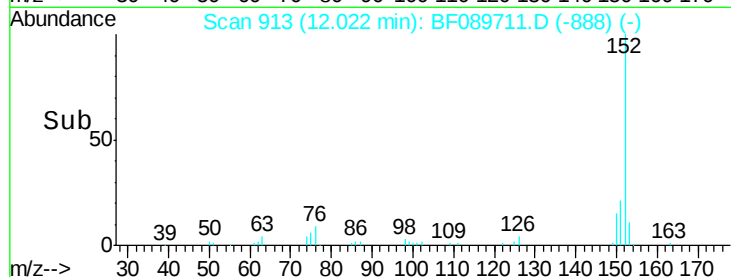
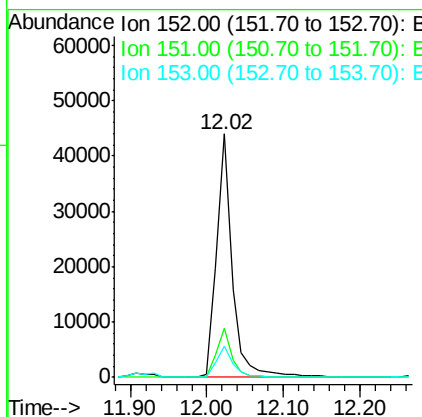
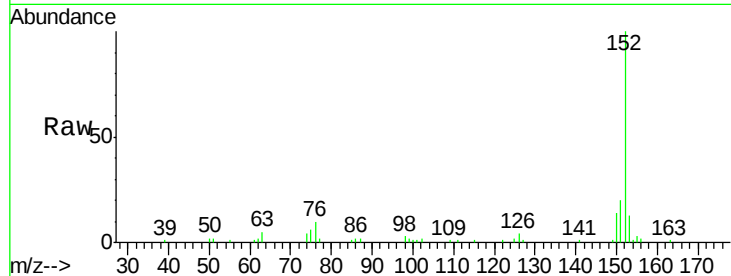
#48
Acenaphthylene
Concen: 6.31 ng
RT: 12.02 min Scan# 913
Delta R.T. -0.01 min
Lab File: BF089711.D
Acq: 10 Aug 2016 23:18

Instrument :
BNA_F
ClientSampleId :
DEL2(0-6)

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.4
153	12.8	10.5	15.7

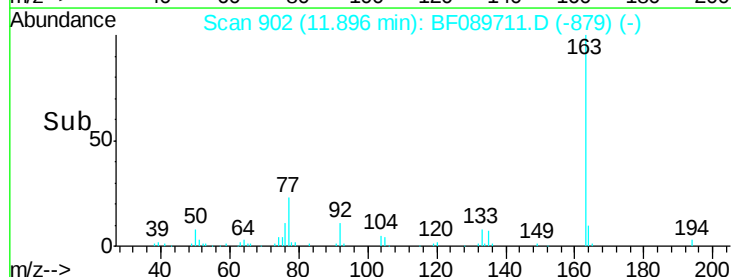
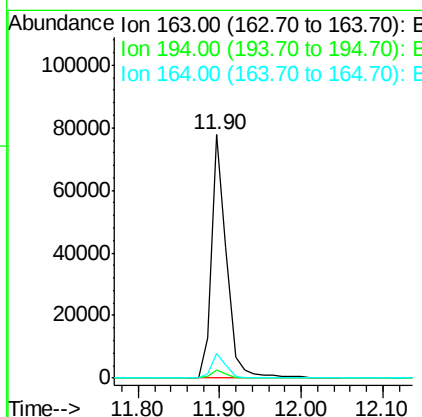
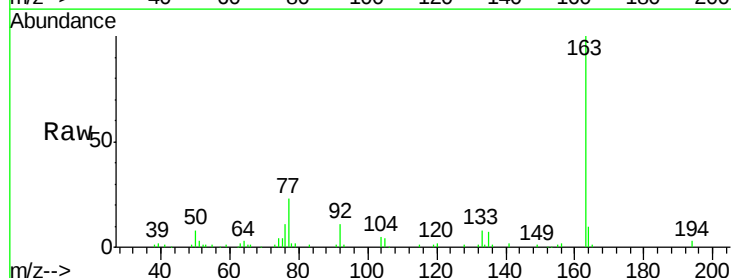
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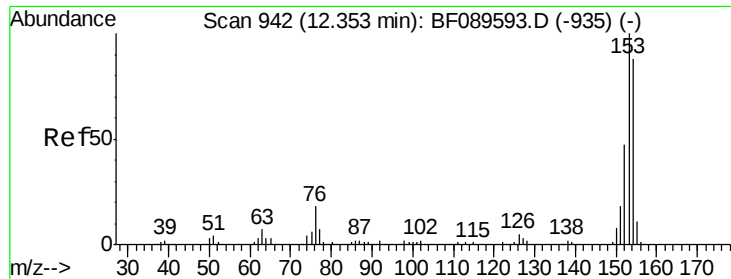
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#49
Dimethylphthalate
Concen: 14.41 ng
RT: 11.90 min Scan# 902
Delta R.T. -0.03 min
Lab File: BF089711.D
Acq: 10 Aug 2016 23:18

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.1	2.7	4.1
164	10.2	7.8	11.6





#51

Acenaphthene

Concen: 7.39 ng

RT: 12.30 min Scan# 937

Delta R.T. -0.02 min

Lab File: BF089711.D

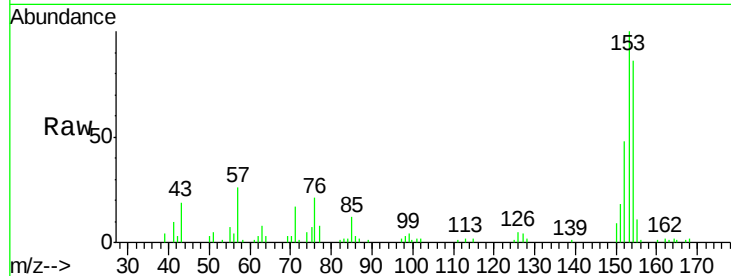
Acq: 10 Aug 2016 23:18

Instrument :

BNA_F

ClientSampleId :

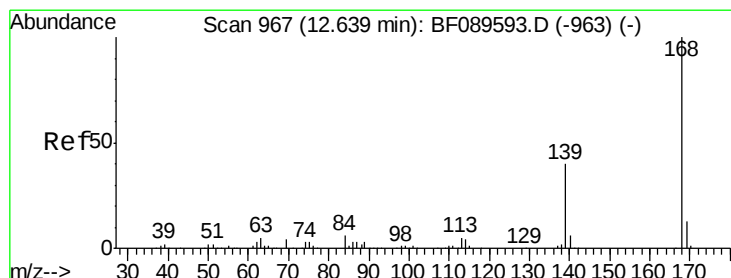
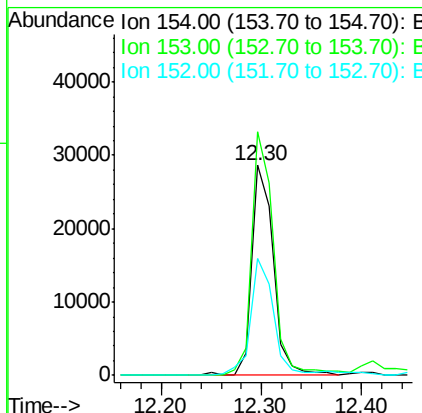
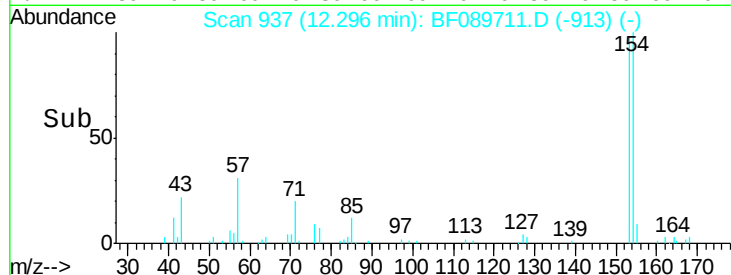
DEL2(0-6)



Tgt Ion:	154	Resp:	42569
Ion	Ratio	Lower	Upper
154	100		
153	116.0	91.1	136.7
152	55.7	43.5	65.3

Manual Integrations
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#54

Dibenzofuran

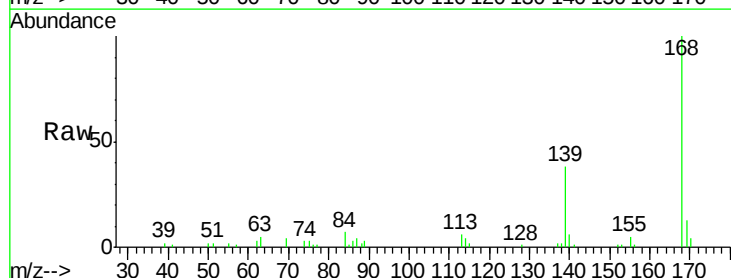
Concen: 5.87 ng

RT: 12.59 min Scan# 963

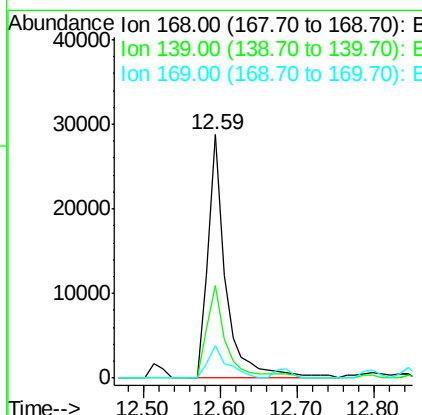
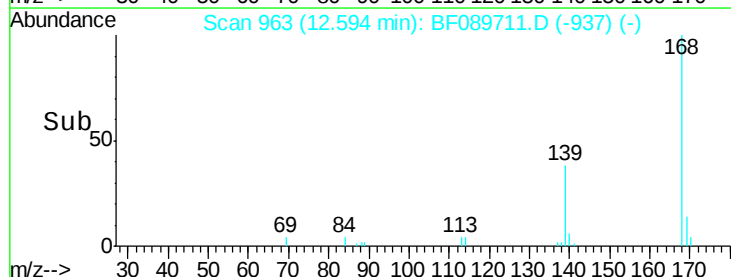
Delta R.T. -0.00 min

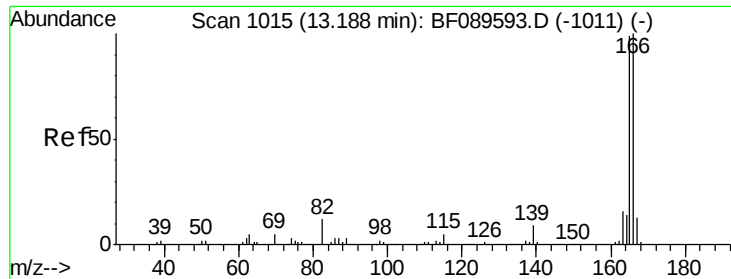
Lab File: BF089711.D

Acq: 10 Aug 2016 23:18



Tgt Ion:	168	Resp:	46516
Ion	Ratio	Lower	Upper
168	100		
139	38.2	32.3	48.5
169	13.4	10.6	15.8





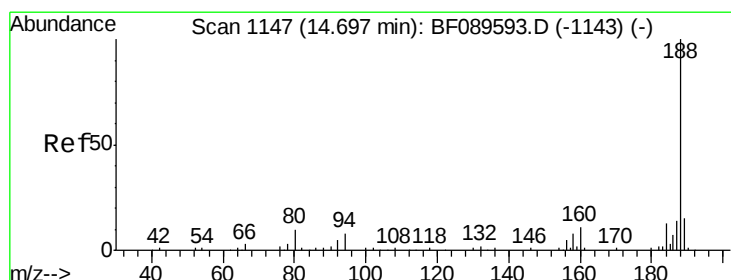
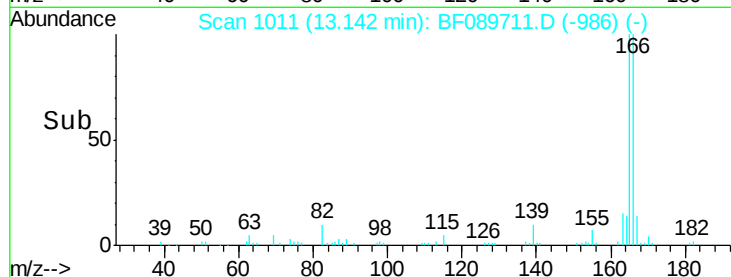
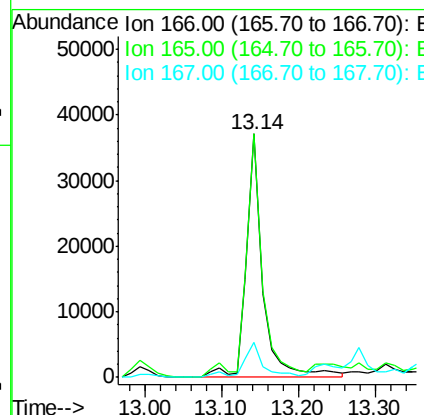
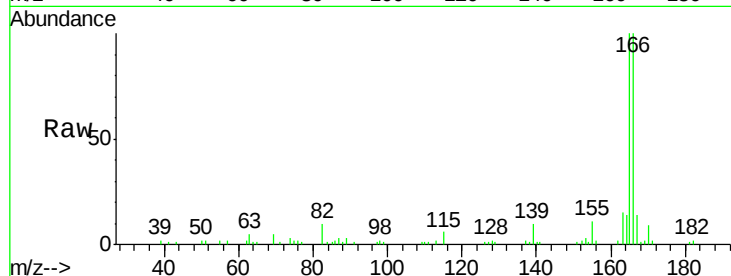
#57
Fluorene
 Concen: 8.26 ng
 RT: 13.14 min Scan# 1011
 Delta R.T. -0.01 min
 Lab File: BF089711.D
 Acq: 10 Aug 2016 23:18

Instrument :
 BNA_F
 ClientSampleId :
 DEL2(0-6)

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	55918		
165	99.9	78.9	118.3	
167	14.5	10.4	15.6	

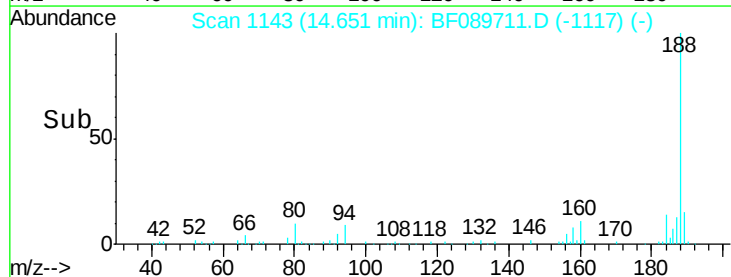
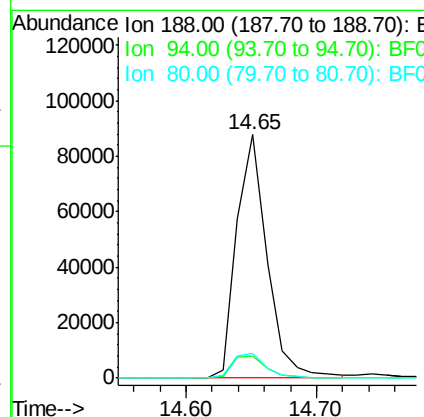
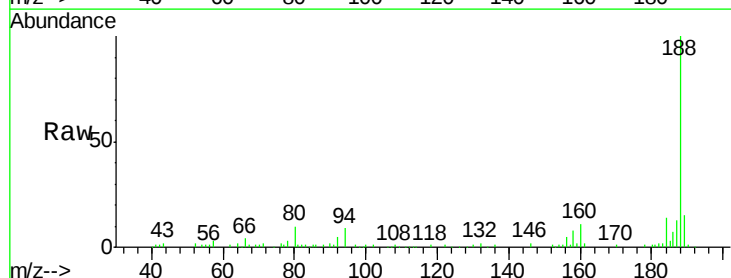
Manual Integrations
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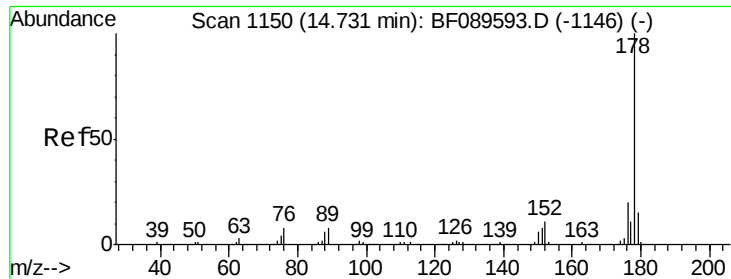
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#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.65 min Scan# 1143
 Delta R.T. -0.00 min
 Lab File: BF089711.D
 Acq: 10 Aug 2016 23:18

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	142349		
94	9.1	6.5	9.7	
80	10.2	8.0	12.0	





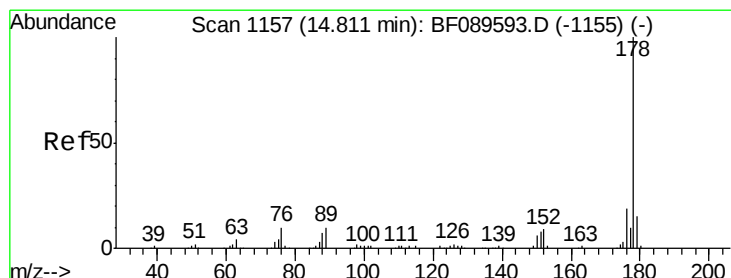
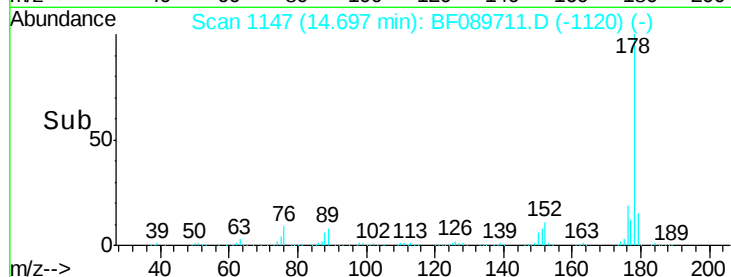
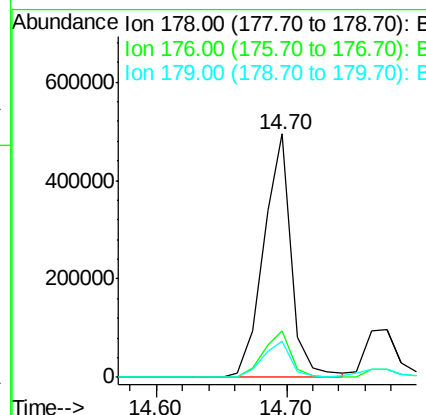
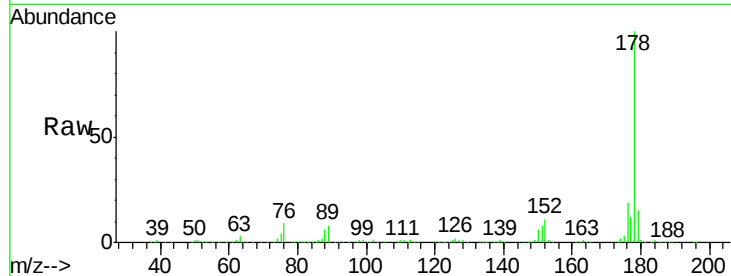
#70
Phenanthrene
Concen: 93.78 ng
RT: 14.70 min Scan# 1147
Delta R.T. 0.01 min
Lab File: BF089711.D
Acq: 10 Aug 2016 23:18

Instrument :
BNA_F
ClientSampleId :
DEL2(0-6)

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.7	23.5
179	15.2	12.2	18.2

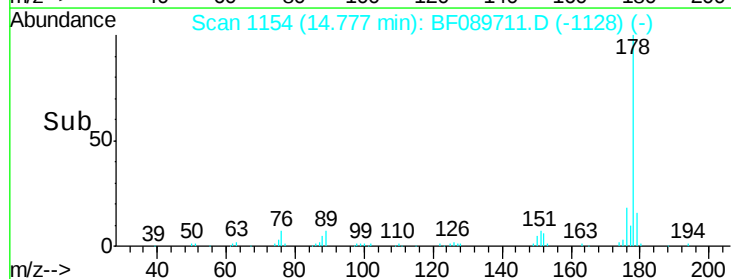
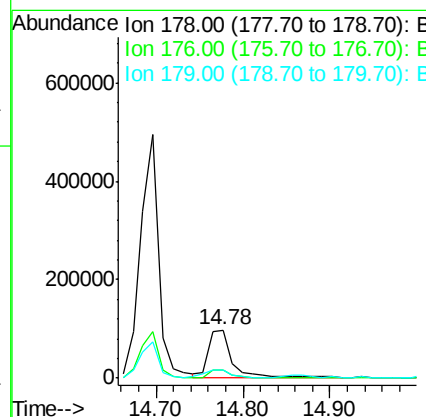
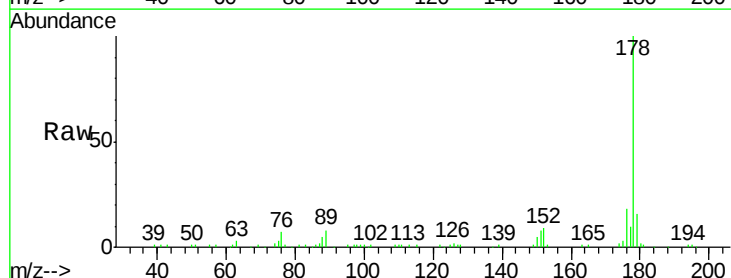
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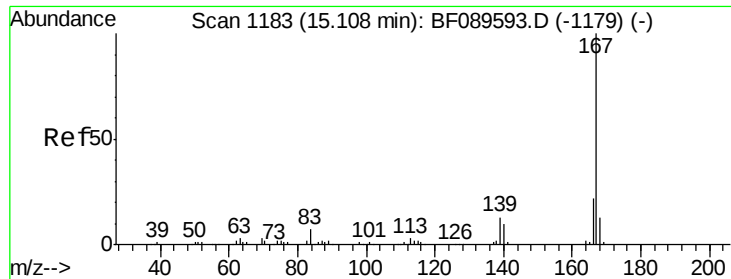
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#71
Anthracene
Concen: 22.23 ng
RT: 14.78 min Scan# 1154
Delta R.T. -0.00 min
Lab File: BF089711.D
Acq: 10 Aug 2016 23:18

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.7	15.0	22.4
179	16.3	12.4	18.6





#72

Carbazole

Concen: 11.85 ng

RT: 15.07 min Scan# 1180

Delta R.T. -0.00 min

Lab File: BF089711.D

Acq: 10 Aug 2016 23:18

Instrument :

BNA_F

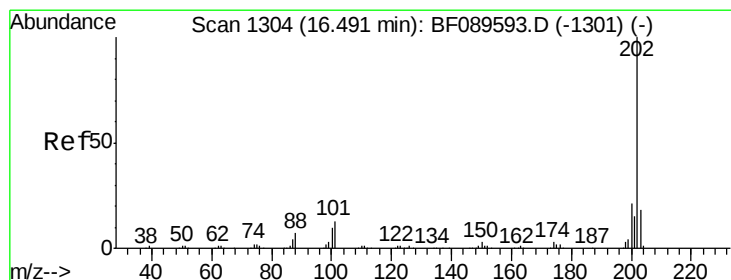
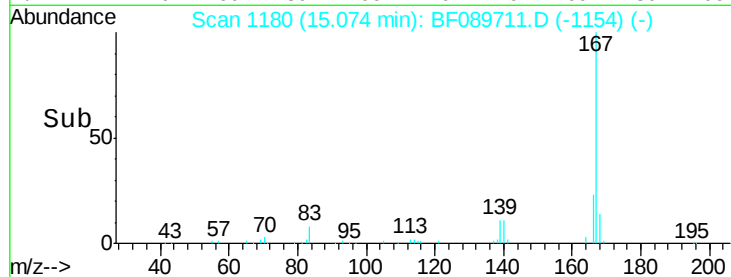
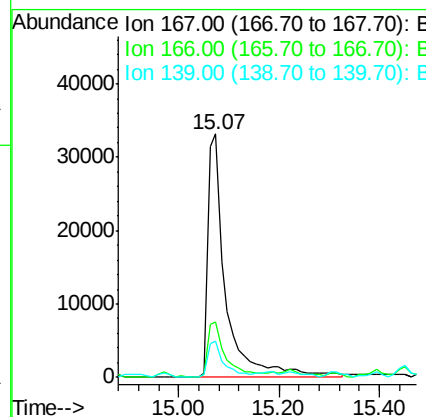
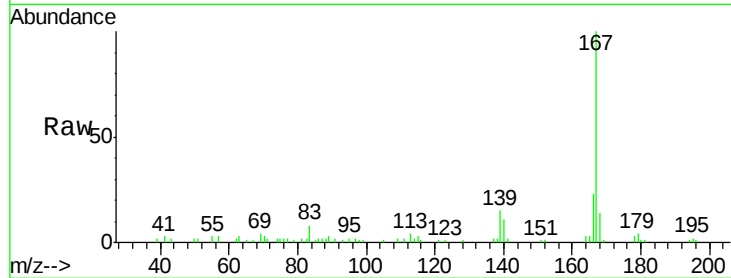
ClientSampleId :

DEL2(0-6)

Tgt Ion:	167	Resp:	81924
Ion Ratio	Lower	Upper	
167	100		
166	23.0	17.5	26.3
139	14.8	10.4	15.6

Manual Integrations
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#74

Fluoranthene

Concen: 134.90 ng

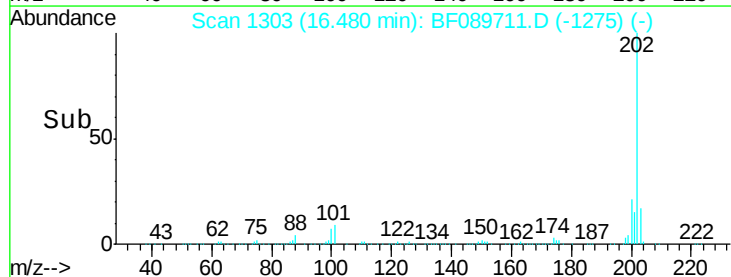
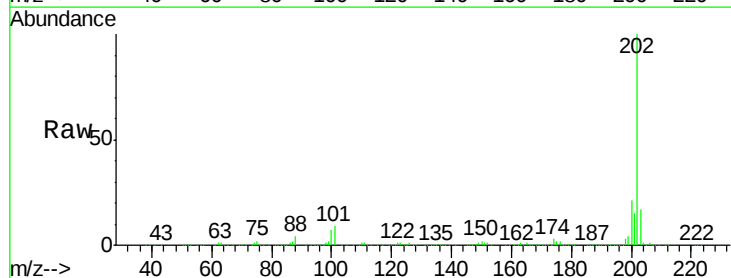
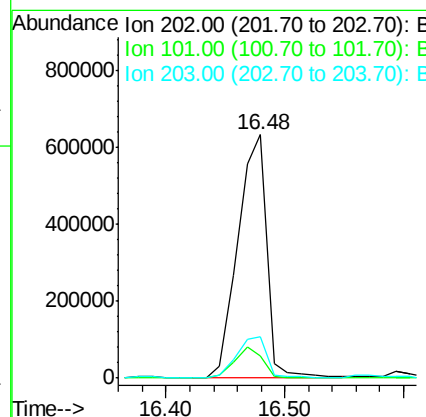
RT: 16.48 min Scan# 1303

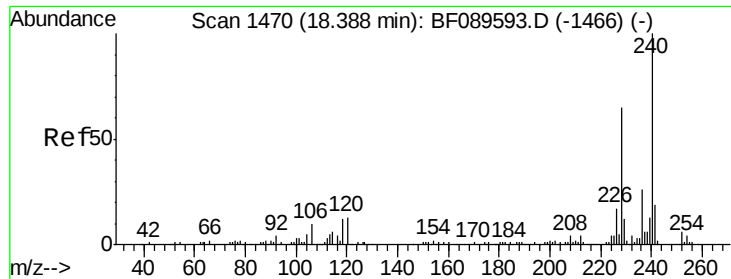
Delta R.T. 0.02 min

Lab File: BF089711.D

Acq: 10 Aug 2016 23:18

Tgt Ion:	202	Resp:	1073395
Ion Ratio	Lower	Upper	
202	100		
101	9.2	0.0	32.7
203	17.1	0.0	37.8





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.38 min Scan# 1469

Delta R.T. 0.01 min

Lab File: BF089711.D

Acq: 10 Aug 2016 23:18

Instrument :

BNA_F

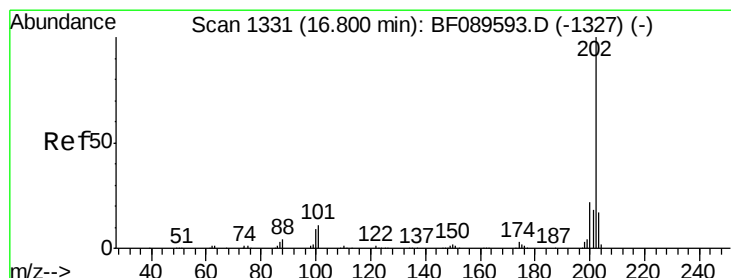
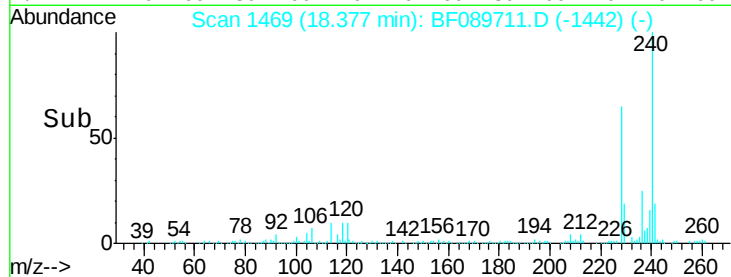
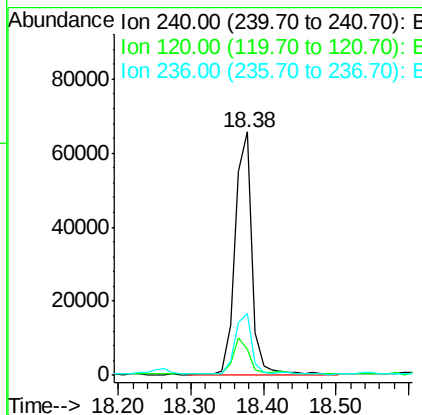
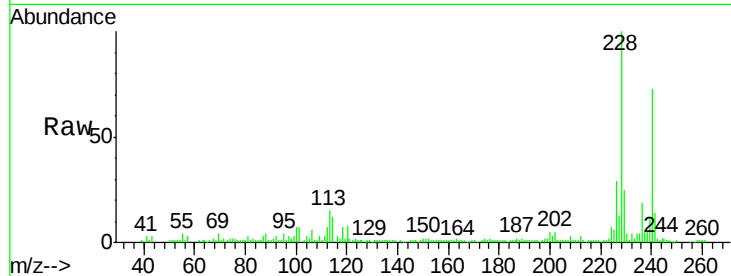
ClientSampleId :

DEL2(0-6)

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	108513		
120	10.8	10.6	15.8	
236	25.4	20.6	30.8	

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#77

Pyrene

Concen: 92.97 ng

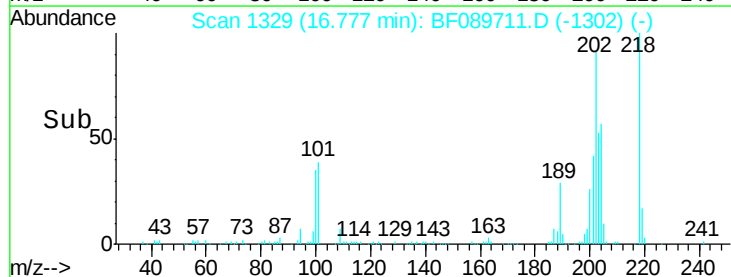
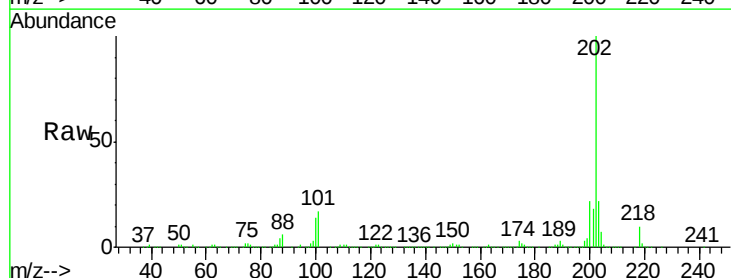
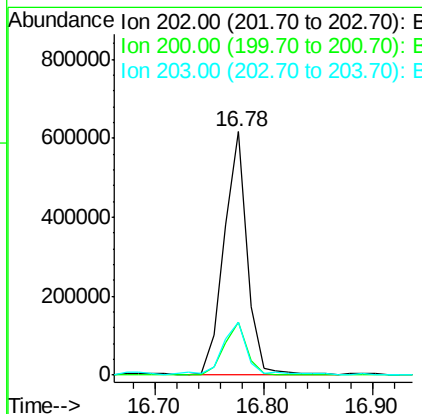
RT: 16.78 min Scan# 1329

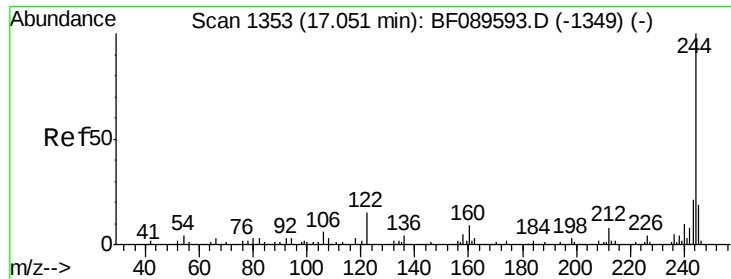
Delta R.T. 0.01 min

Lab File: BF089711.D

Acq: 10 Aug 2016 23:18

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	891959		
200	21.8	17.4	26.0	
203	21.7	13.6	20.4	





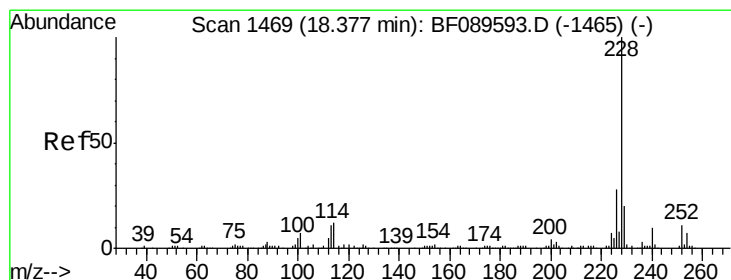
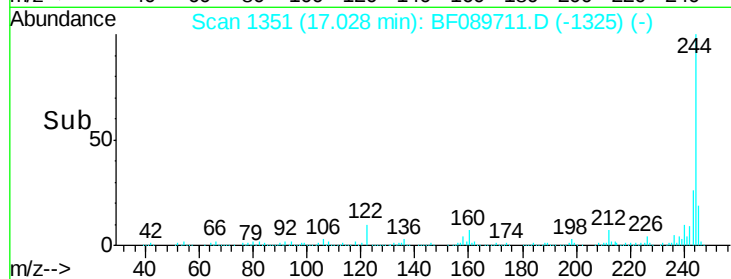
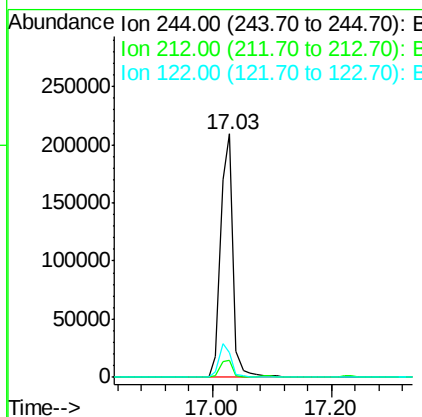
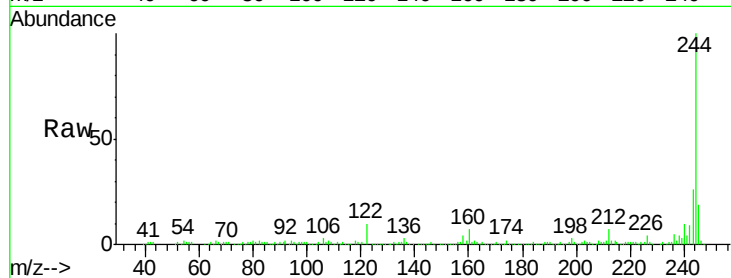
#78
 Terphenyl-d14
 Concen: 54.93 ng
 RT: 17.03 min Scan# 1351
 Delta R.T. -0.00 min
 Lab File: BF089711.D
 Acq: 10 Aug 2016 23:18

Instrument :
 BNA_F
 ClientSampled :
 DEL2(0-6)

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	301961		
212	7.3	6.4	9.6	
122	10.0	12.2	18.2	

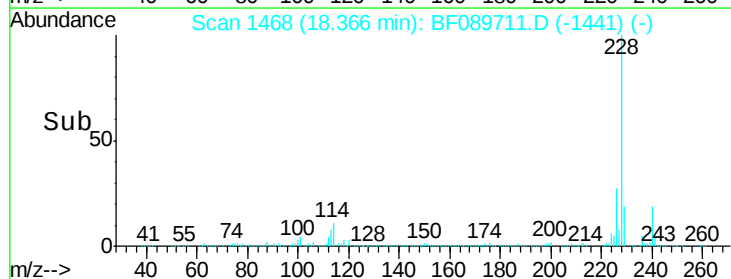
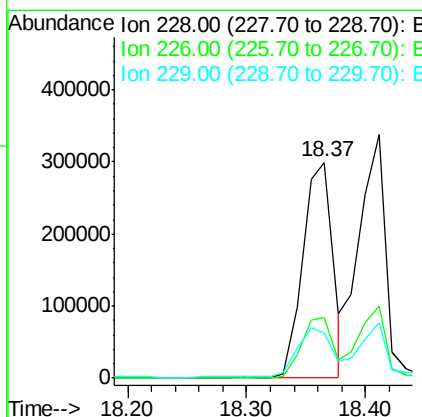
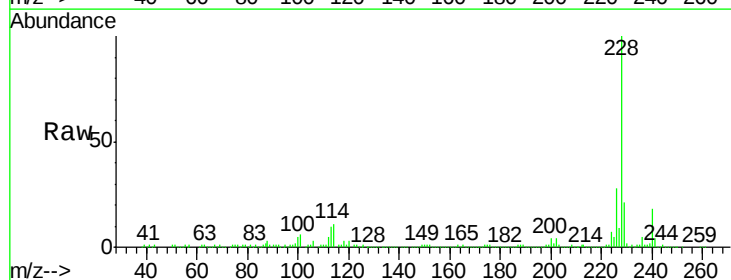
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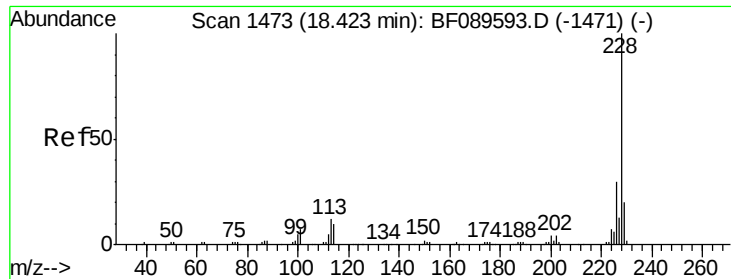
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#80
 Benzo(a)anthracene
 Concen: 84.68 ng
 RT: 18.37 min Scan# 1468
 Delta R.T. 0.01 min
 Lab File: BF089711.D
 Acq: 10 Aug 2016 23:18

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	527964		
226	28.0	22.3	33.5	
229	20.9	15.9	23.9	





#82

Chrysene

Concen: 80.12 ng

RT: 18.41 min Scan# 1472

Delta R.T. 0.01 min

Lab File: BF089711.D

Acq: 10 Aug 2016 23:18

Instrument :

BNA_F

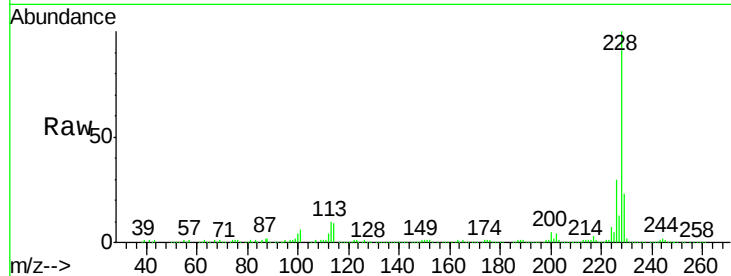
ClientSampleId :

DEL2(0-6)

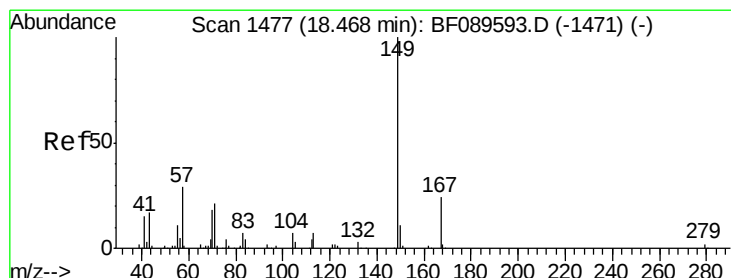
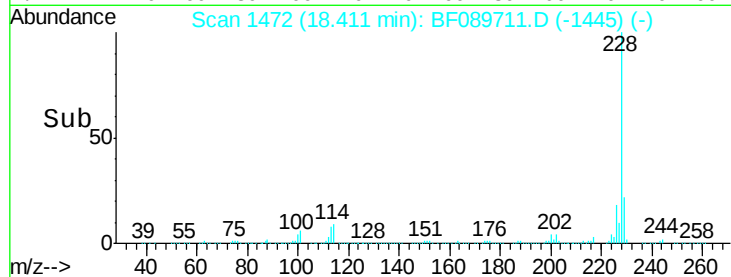
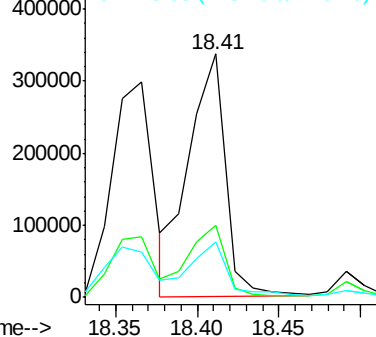
Tgt Ion:	228	Resp:	524054
Ion Ratio	Lower	Upper	
228	100		
226	29.8	24.2	36.2
229	22.5	16.0	24.0

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: 8.16 ng

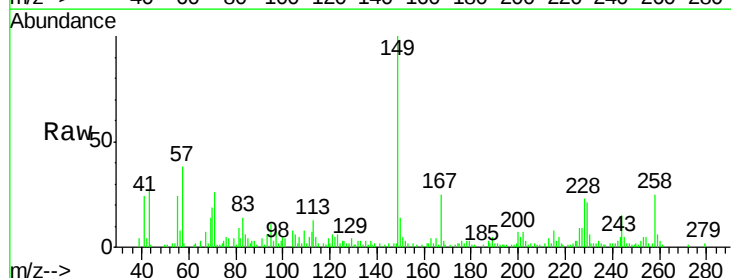
RT: 18.45 min Scan# 1475

Delta R.T. -0.00 min

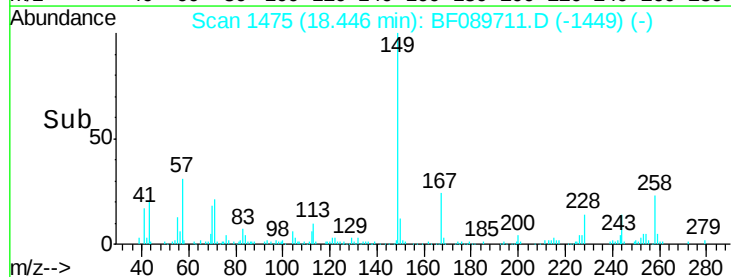
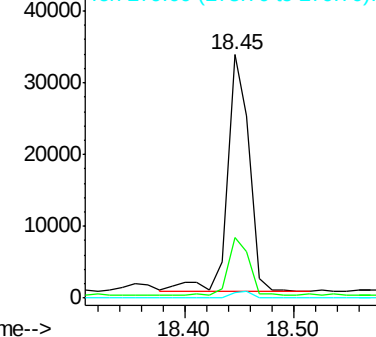
Lab File: BF089711.D

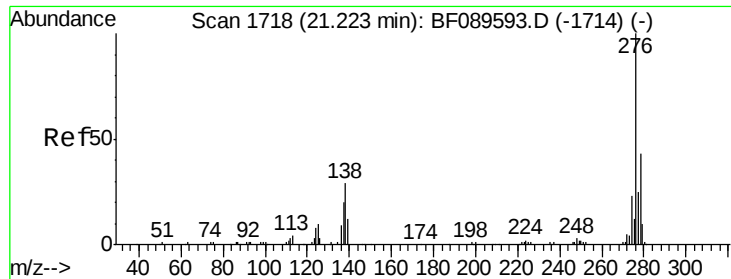
Acq: 10 Aug 2016 23:18

Tgt Ion:	149	Resp:	46123
Ion Ratio	Lower	Upper	
149	100		
167	24.7	19.0	28.4
279	2.3	1.8	2.6



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





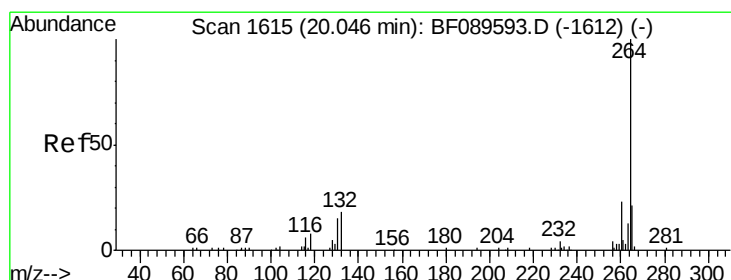
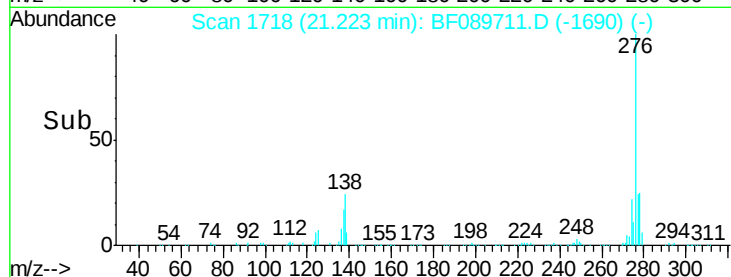
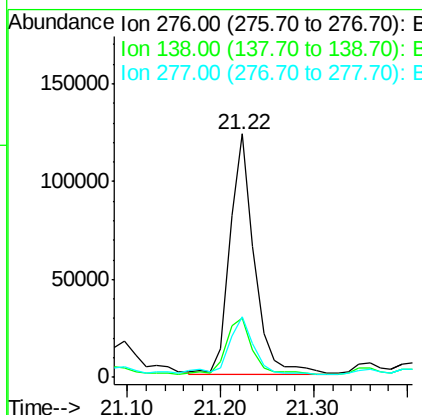
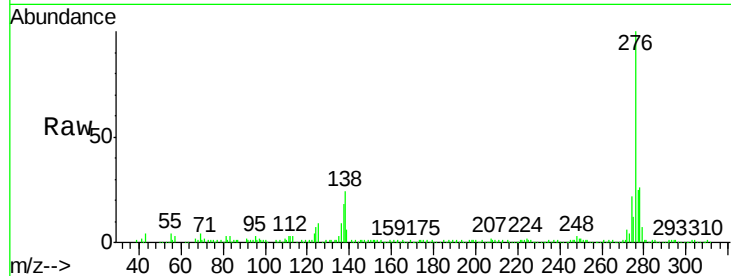
#85
Indeno(1,2,3-cd)pyrene
Concen: 45.24 ng
RT: 21.22 min Scan# 1718
Delta R.T. 0.02 min
Lab File: BF089711.D
Acq: 10 Aug 2016 23:18

Instrument :
BNA_F
ClientSampleId :
DEL2(0-6)

Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.6	23.8	35.8
277	26.4	20.3	30.5

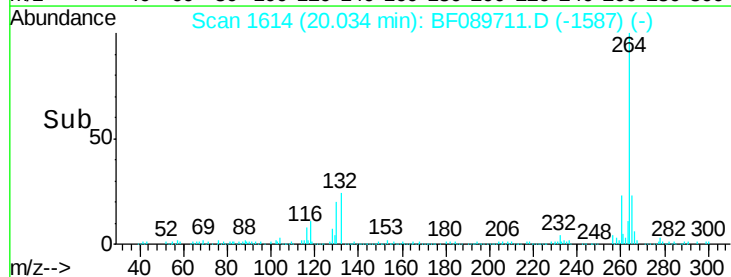
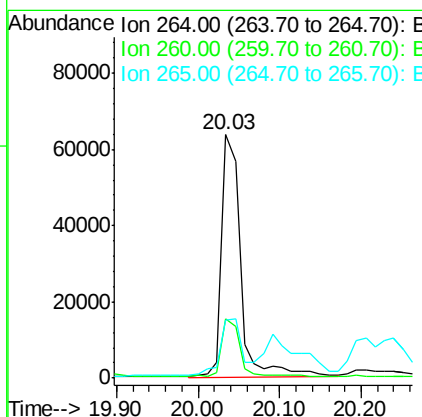
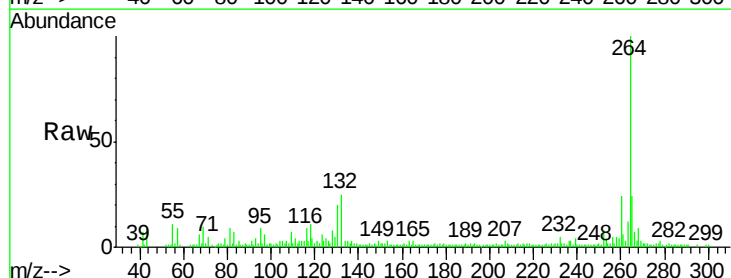
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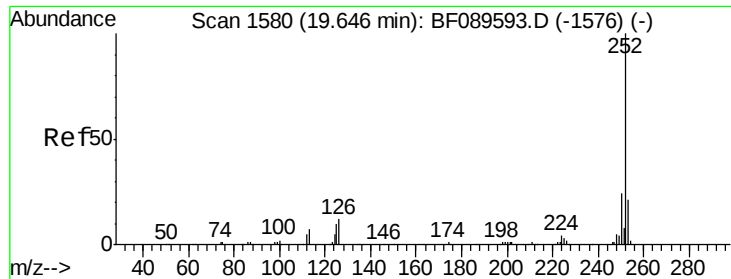
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#86
Perylene-d12
Concen: 20.00 ng
RT: 20.03 min Scan# 1614
Delta R.T. 0.01 min
Lab File: BF089711.D
Acq: 10 Aug 2016 23:18

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	18.7	28.1
265	23.9	16.5	24.7





#87

Benzo(b)fluoranthene

Concen: 101.55 ng m

RT: 19.65 min Scan# 1580

Delta R.T. 0.02 min

Lab File: BF089711.D

Acq: 10 Aug 2016 23:18

Instrument :

BNA_F

ClientSampleId :

DEL2(0-6)

Tgt Ion: 252 Resp: 648438

Ion Ratio Lower Upper

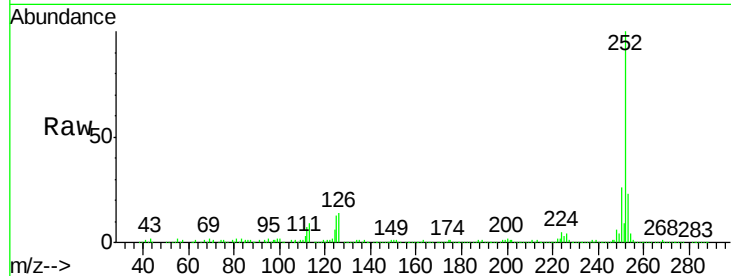
252 100

253 23.4 17.1 25.7

125 12.9 7.8 11.8

Manual Integrations
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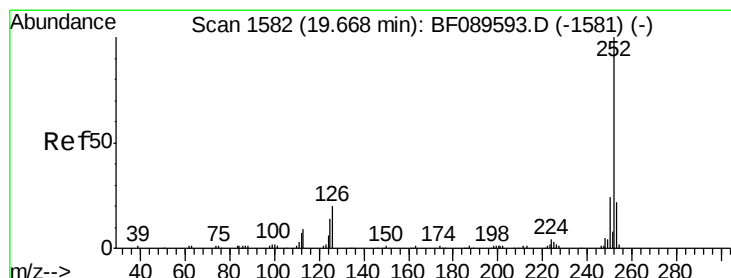
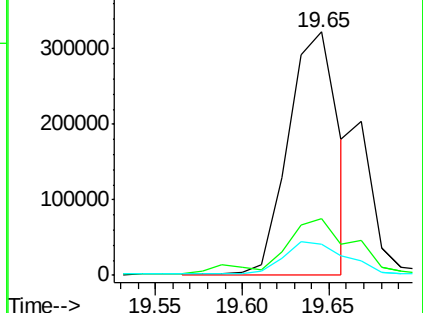
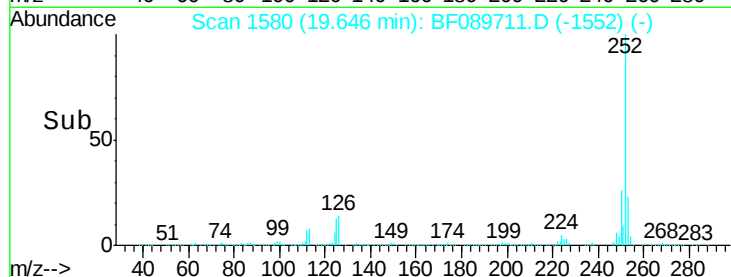
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Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 28.15 ng m

RT: 19.67 min Scan# 1582

Delta R.T. 0.02 min

Lab File: BF089711.D

Acq: 10 Aug 2016 23:18

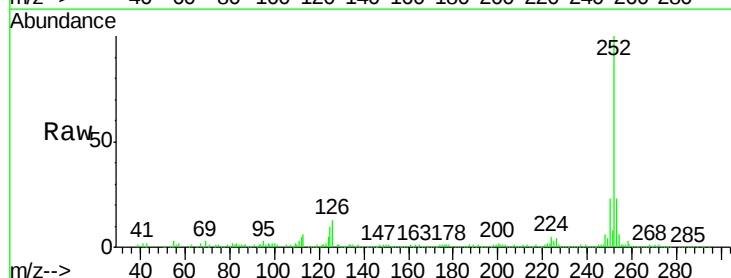
Tgt Ion: 252 Resp: 181346

Ion Ratio Lower Upper

252 100

253 22.7 17.3 25.9

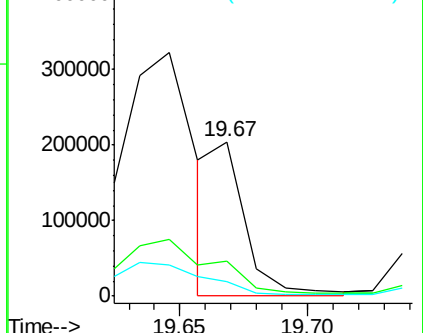
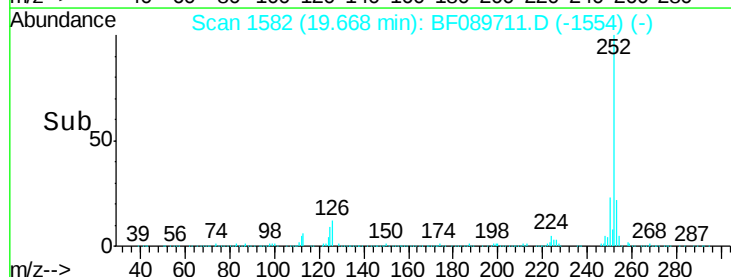
125 9.6 11.0 16.6

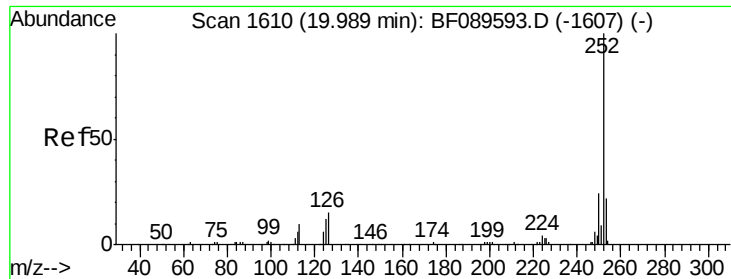


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





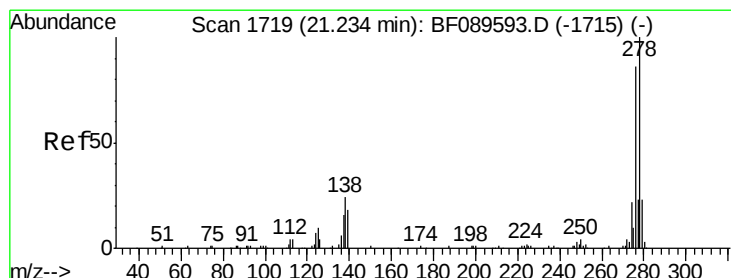
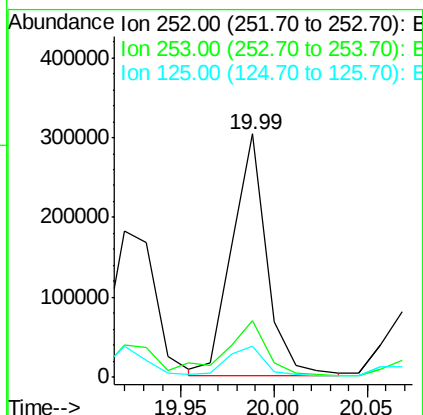
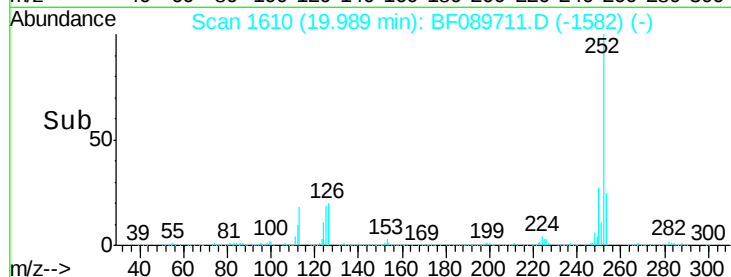
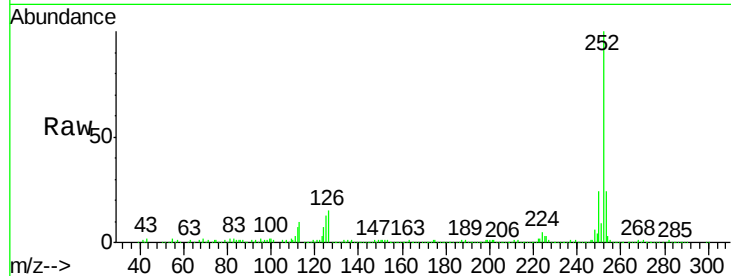
#89
Benzo(a)pyrene
Concen: 65.77 ng
RT: 19.99 min Scan# 1610
Delta R.T. 0.02 min
Lab File: BF089711.D
Acq: 10 Aug 2016 23:18

Instrument :
BNA_F
ClientSampleId :
DEL2(0-6)

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	23.5	17.4	26.0
125	12.7	9.9	14.9

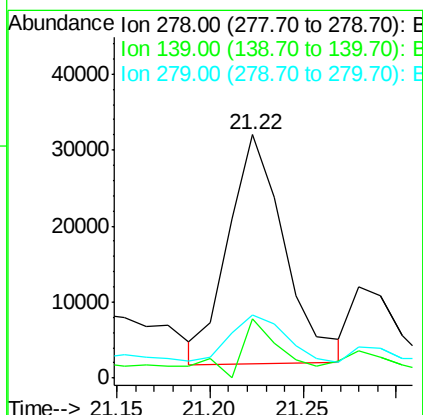
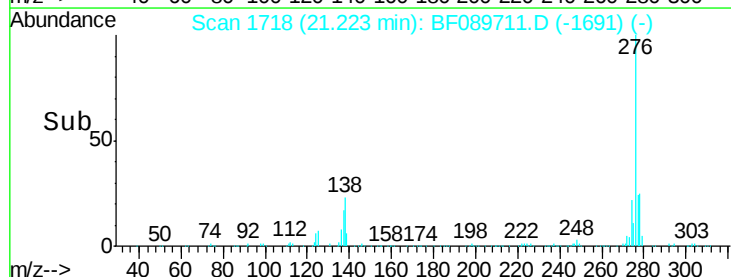
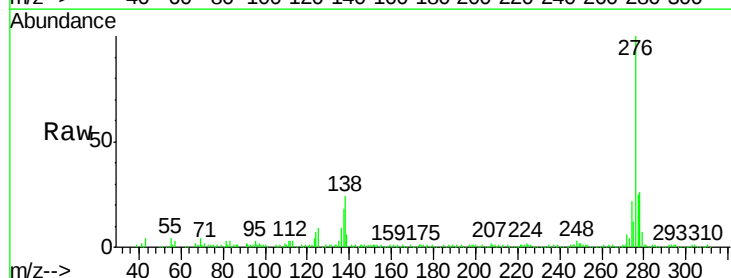
Manual Integrations
APPROVED

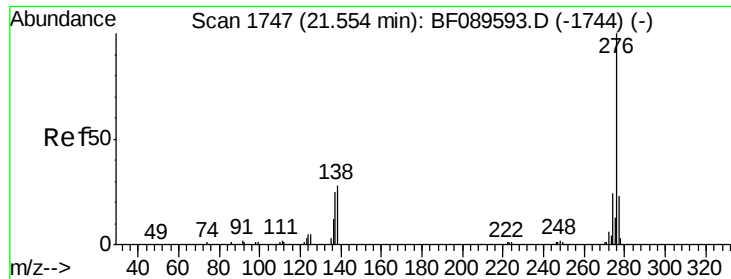
sohil
8/11/2016 5:52:19 PM



#90
Dibenzo(a,h)anthracene
Concen: 11.31 ng
RT: 21.22 min Scan# 1718
Delta R.T. 0.01 min
Lab File: BF089711.D
Acq: 10 Aug 2016 23:18

Tgt Ion	Ratio	Resp Lower	Resp Upper
278	100		
139	24.3	14.6	21.8#
279	25.7	18.4	27.6





#91
 Benzo(g,h,i)perylene
 Concen: 35.40 ng
 RT: 21.57 min Scan# 1748
 Delta R.T. 0.03 min
 Lab File: BF089711.D
 Acq: 10 Aug 2016 23:18

Instrument :
 BNA_F
 ClientSampleId :
 DEL2(0-6)

Tgt Ion:	276	Resp:	202437
Ion Ratio		Lower	Upper
276	100		
277	24.9	18.6	28.0
138	23.7	22.6	33.8

Manual Integrations
 APPROVED

sohil
 8/11/2016 5:52:19 PM

