

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF042919\
 Data File : BF114029.D
 Acq On : 29 Apr 2019 18:10
 Operator : JU/SJ
 Sample : K2564-03
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 C-3_042419

Manual Integrations
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 4/30/2019 6:42:24 PM

Quant Time: Apr 30 06:30:37 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042219.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 23 03:32:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	126821	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	475634	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	246082	20.00	ng	-0.01
64) Phenanthrene-d10	11.41	188	447292	20.00	ng	0.00
76) Chrysene-d12	14.04	240	313852	20.00	ng	-0.02
87) Perylene-d12	15.53	264	381949	20.00	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.52	112	611035	82.41	ng	0.00
7) Phenol-d6	6.52	99	793207	85.26	ng	0.00
23) Nitrobenzene-d5	7.45	82	475831	61.77	ng	0.00
42) 2,4,6-Tribromophenol	10.71	330	243056	81.08	ng	-0.01
45) 2-Fluorobiphenyl	9.25	172	916265	58.24	ng	-0.01
79) Terphenyl-d14	12.99	244	865970	56.57	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.19	128	119764	5.300	ng	98
37) 2-Methylnaphthalene	8.88	142	37916	2.488	ng	98
38) 1-Methylnaphthalene	8.98	142	34255	2.329	ng	99
50) Dimethylphthalate	9.63	163	104660	5.881	ng	98
52) Acenaphthene	9.96	154	88741	6.274	ng	96
55) Dibenzofuran	10.13	168	82232	3.881	ng	98
58) Fluorene	10.47	166	103658	6.499	ng	100
71) Phenanthrene	11.43	178	1100930	48.976	ng	100
72) Anthracene	11.49	178	298475	13.149	ng	97
73) Carbazole	11.63	167	107943	5.330	ng	99
75) Fluoranthene	12.63	202	1114416	45.440	ng	96
78) Pyrene	12.85	202	985620	44.907	ng	99
81) Benzo(a)anthracene	14.04	228	526914	28.495	ng	99
83) Chrysene	14.07	228	475349	26.395	ng	96
86) Indeno(1,2,3-cd)pyrene	17.01	276	265743m	15.578	ng	
88) Benzo(b)fluoranthene	15.10	252	611437m	25.302	ng	
89) Benzo(k)fluoranthene	15.12	252	162846m	7.834	ng	
90) Benzo(a)pyrene	15.46	252	459415	21.979	ng	98
91) Dibenzo(a,h)anthracene	17.02	278	77595	3.955	ng	93
92) Benzo(g,h,i)perylene	17.46	276	238811	12.061	ng	99

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

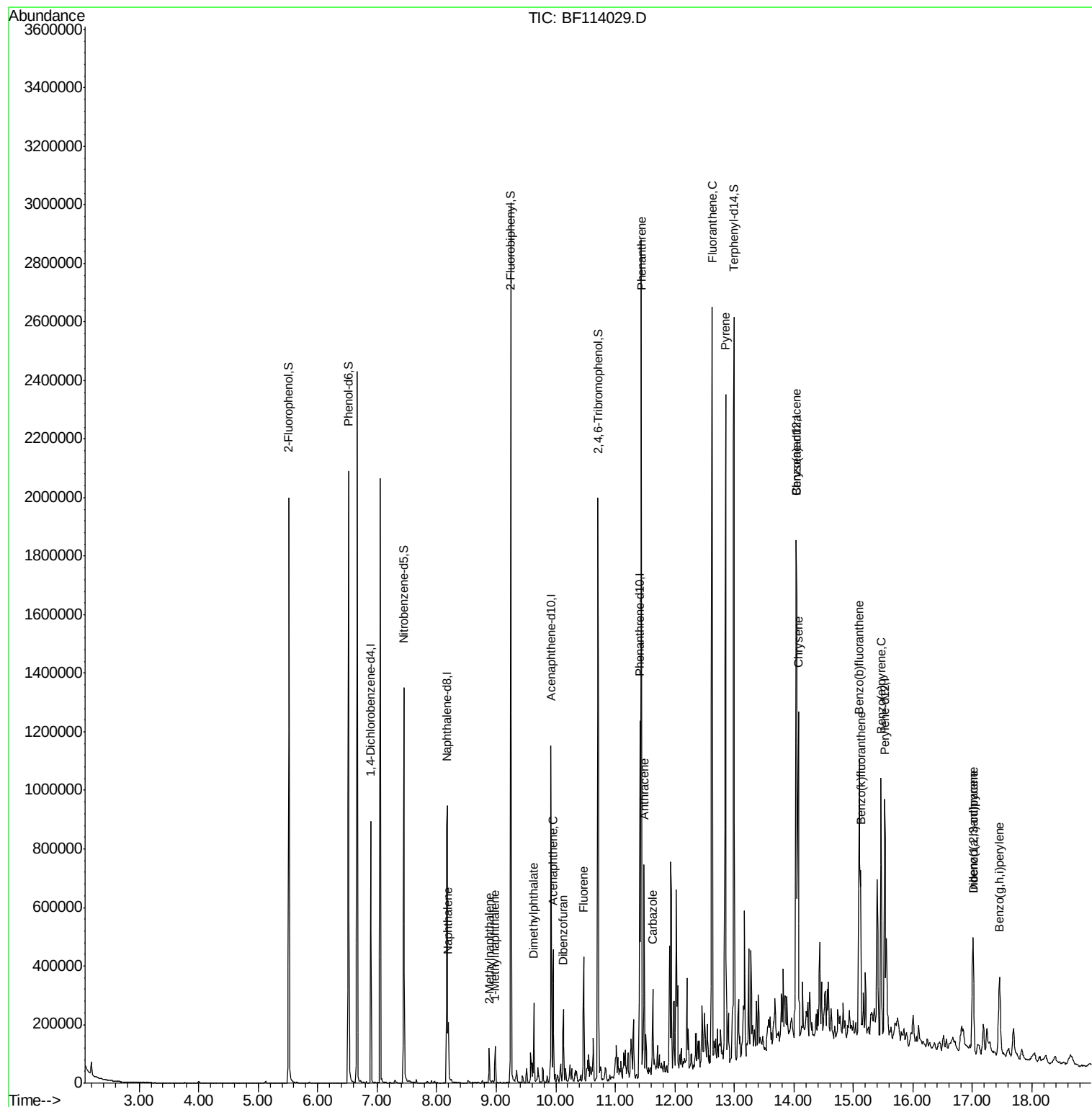
Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF042919\
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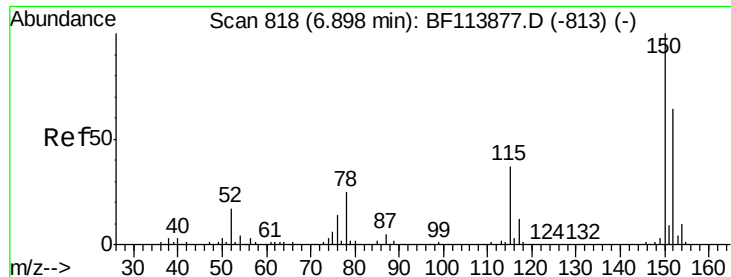
Instrument :
BNA_F
ClientSampleID :
C-3_042419

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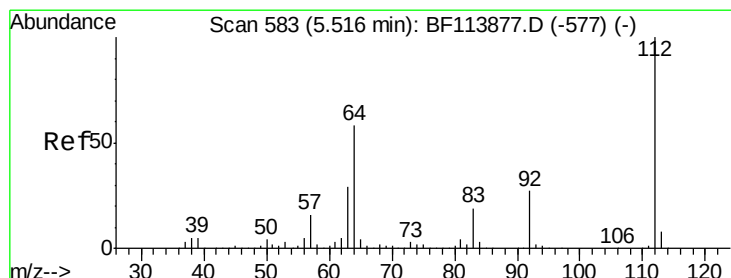
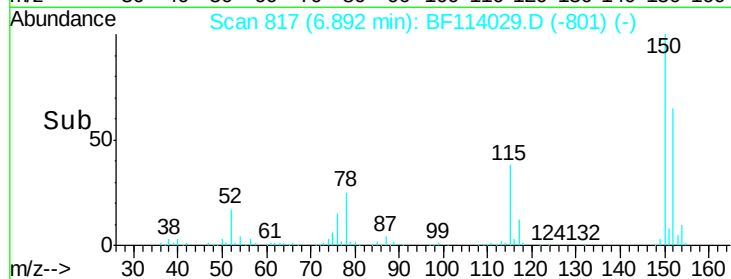
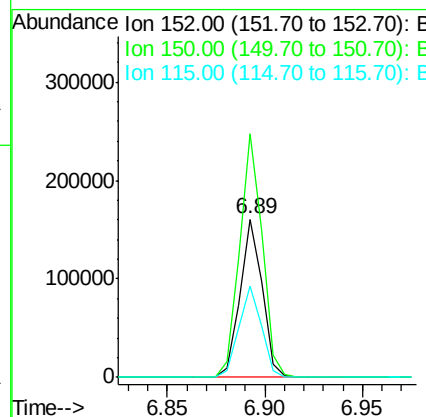
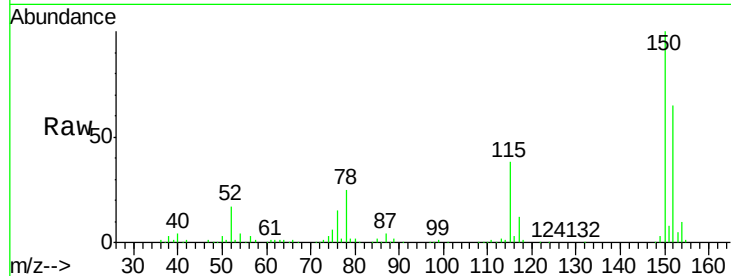
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.89 min Scan# 817
 Delta R.T. -0.01 min
 Lab File: BF114029.D
 Acq: 29 Apr 2019 18:10

Instrument :
 BNA_F
 ClientSampleId :
 C-3_042419

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	126821		
150	153.6	125.9	188.9	
115	57.7	45.9	68.9	

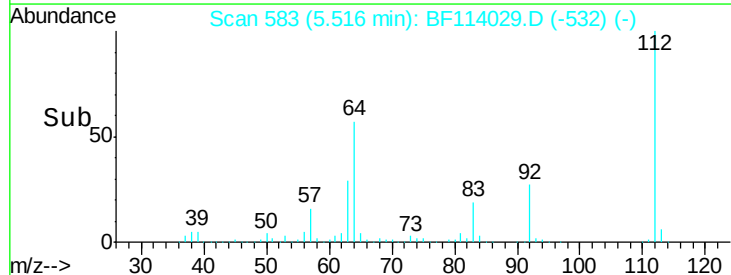
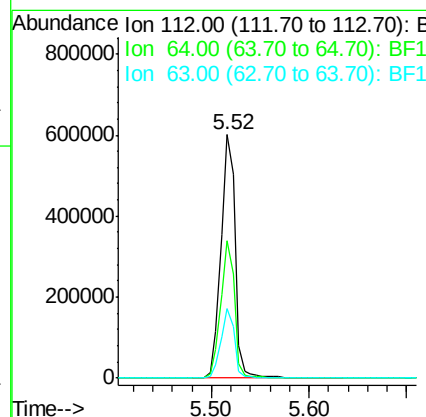
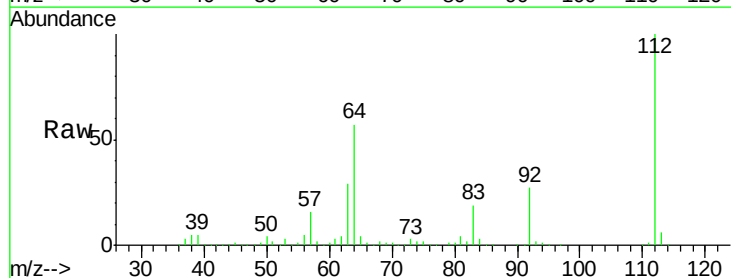
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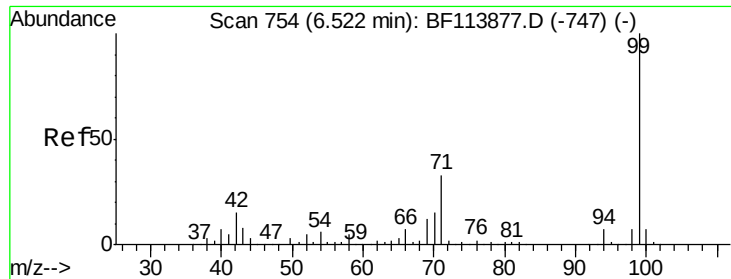
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#5
 2-Fluorophenol
 Concen: 82.406 ng
 RT: 5.52 min Scan# 583
 Delta R.T. 0.00 min
 Lab File: BF114029.D
 Acq: 29 Apr 2019 18:10

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	611035		
64	56.5	46.6	69.8	
63	28.6	23.1	34.7	





#7

Phenol-d6

Concen: 85.265 ng

RT: 6.52 min Scan# 754

Delta R.T. 0.00 min

Lab File: BF114029.D

Acq: 29 Apr 2019 18:10

Instrument :

BNA_F

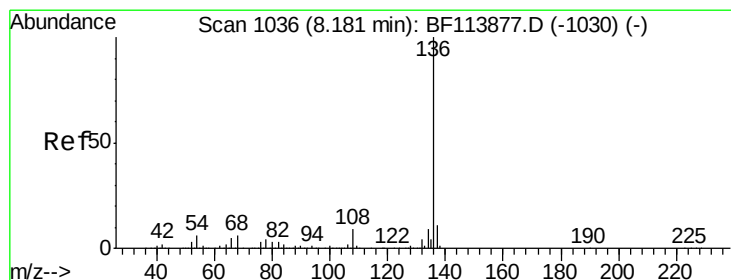
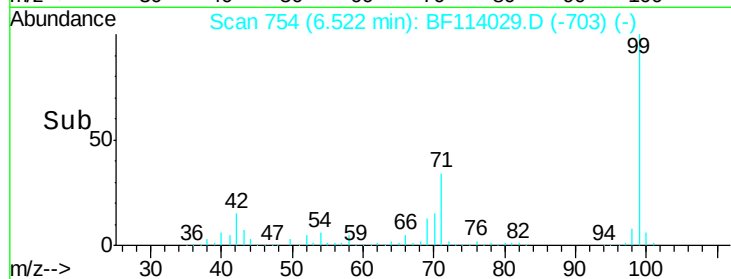
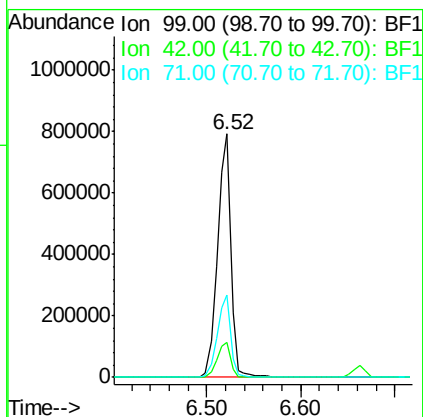
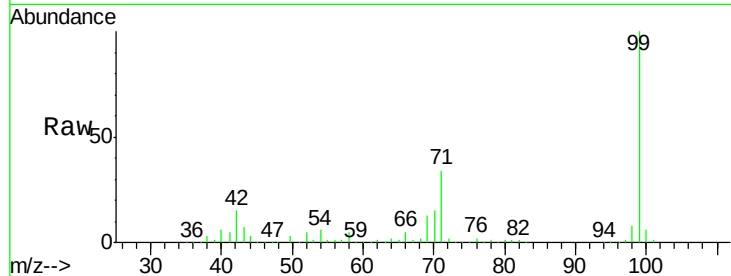
ClientSampled :

C-3_042419

Tgt Ion:	99	Resp:	793207
Ion Ratio	Lower	Upper	
99	100		
42	14.6	12.5	18.7
71	33.8	26.9	40.3

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#21

Naphthalene-d8

Concen: 20.000 ng

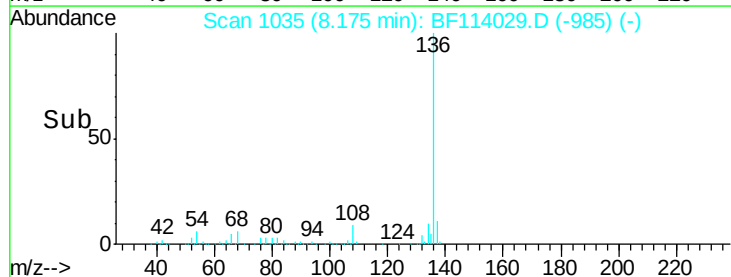
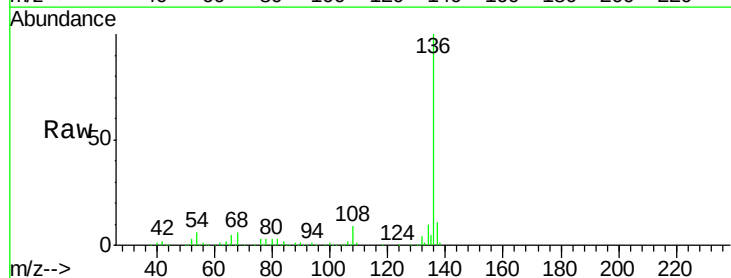
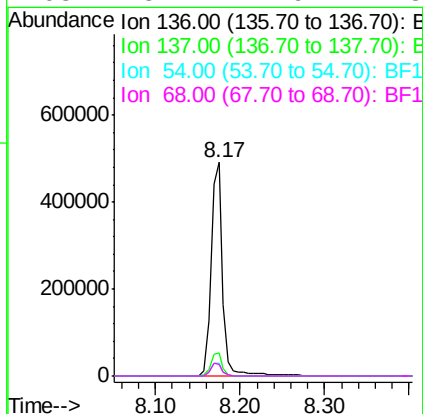
RT: 8.17 min Scan# 1035

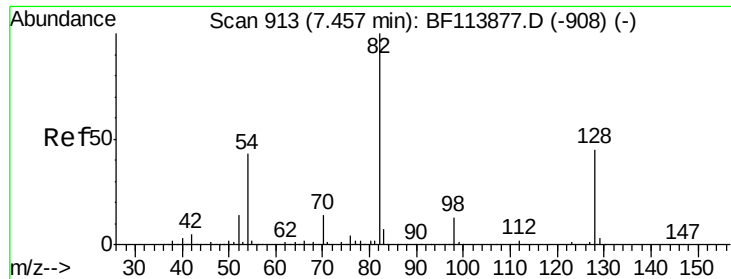
Delta R.T. -0.01 min

Lab File: BF114029.D

Acq: 29 Apr 2019 18:10

Tgt Ion:	136	Resp:	475634
Ion Ratio	Lower	Upper	
136	100		
137	10.7	8.6	12.8
54	5.9	5.0	7.6
68	5.7	4.9	7.3





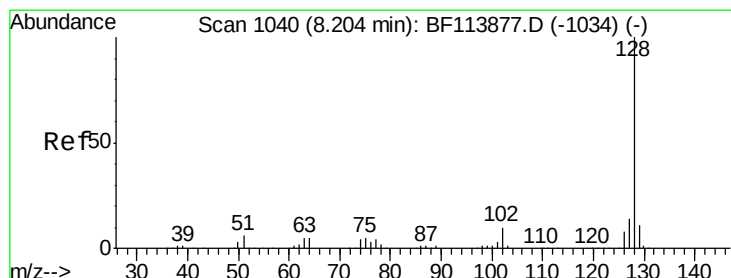
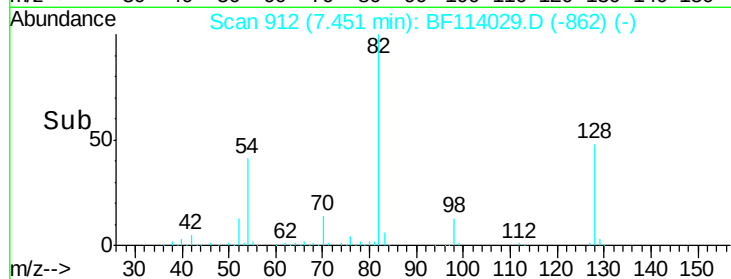
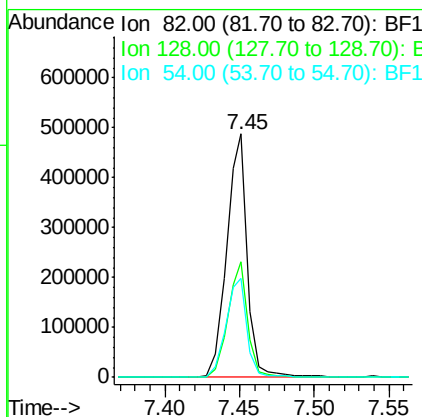
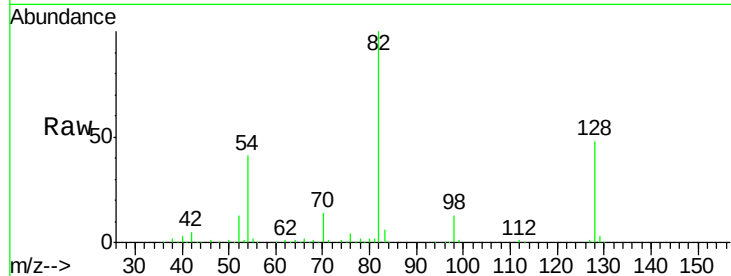
#23
Nitrobenzene-d5
Concen: 61.769 ng
RT: 7.45 min Scan# 912
Delta R.T. -0.01 min
Lab File: BF114029.D
Acq: 29 Apr 2019 18:10

Instrument :
BNA_F
ClientSampleId :
C-3_042419

Tgt Ion	Ratio	Lower	Upper
82	100		
128	47.7	36.8	55.2
54	40.8	33.8	50.6

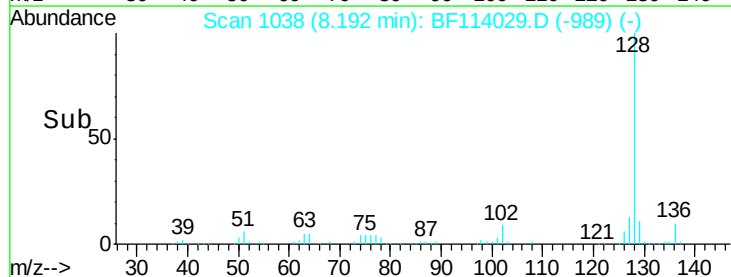
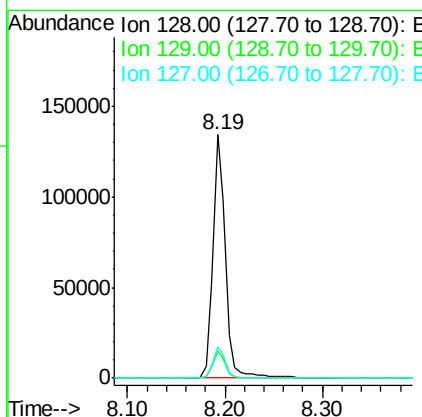
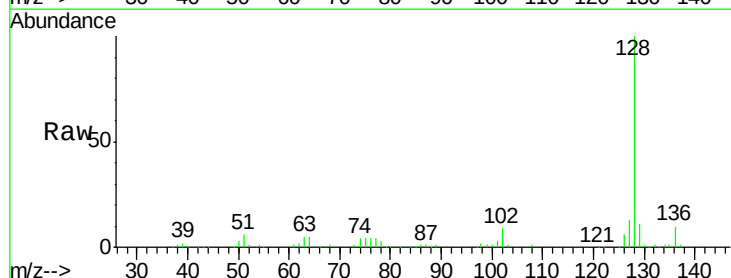
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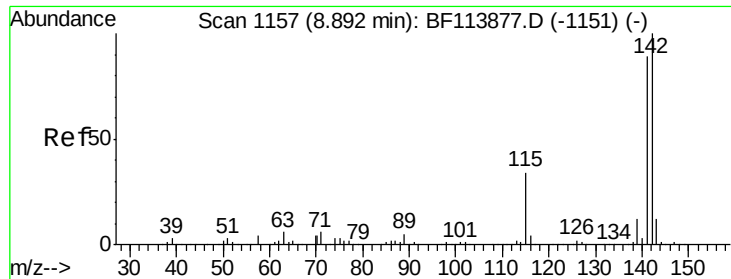
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#31
Naphthalene
Concen: 5.300 ng
RT: 8.19 min Scan# 1038
Delta R.T. -0.01 min
Lab File: BF114029.D
Acq: 29 Apr 2019 18:10

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.4	14.0
127	12.7	10.8	16.2





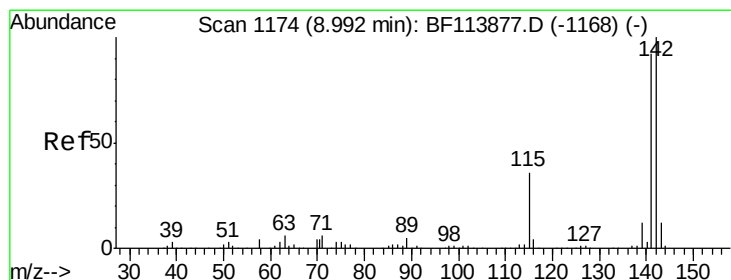
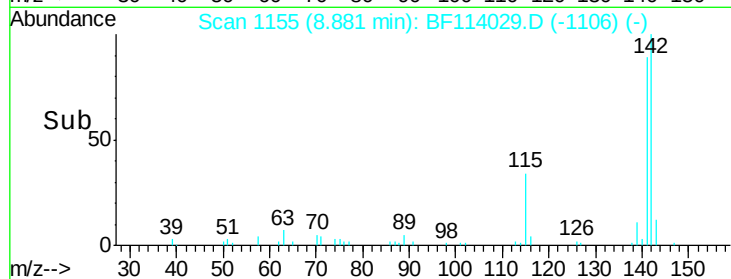
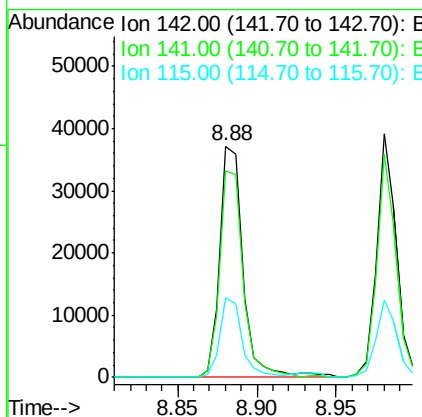
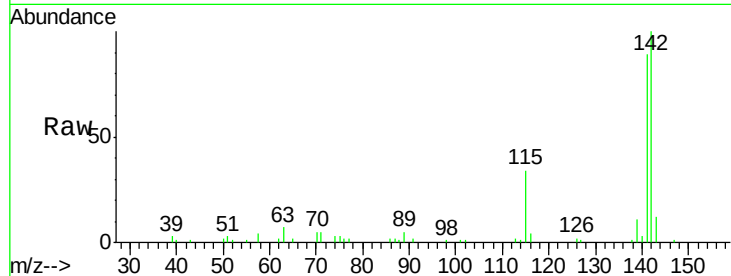
#37
2-Methylnaphthalene
Concen: 2.488 ng
RT: 8.88 min Scan# 1155
Delta R.T. -0.01 min
Lab File: BF114029.D
Acq: 29 Apr 2019 18:10

Instrument :
BNA_F
ClientSampleId :
C-3_042419

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.4	70.4	105.6
115	34.5	26.3	39.5

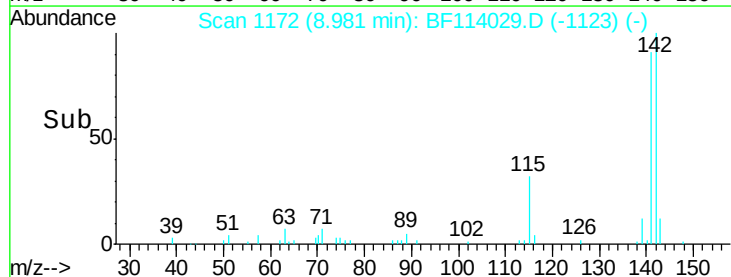
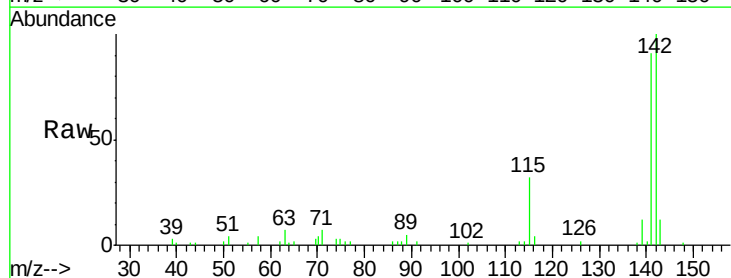
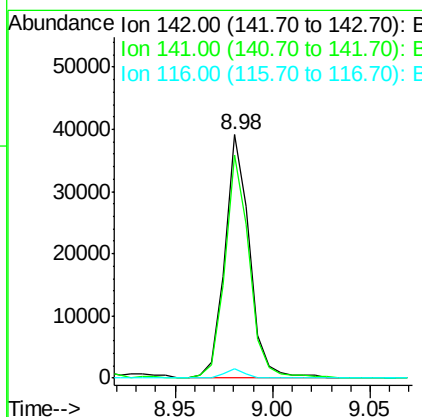
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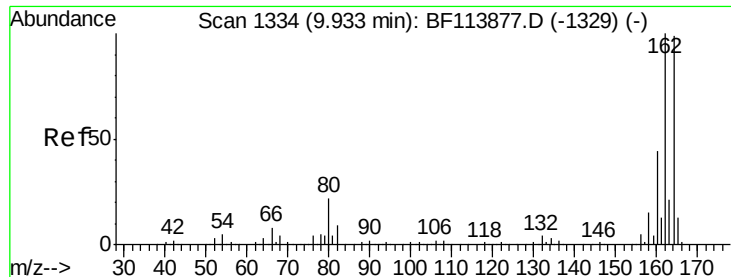
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#38
1-Methylnaphthalene
Concen: 2.329 ng
RT: 8.98 min Scan# 1172
Delta R.T. -0.01 min
Lab File: BF114029.D
Acq: 29 Apr 2019 18:10

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.5	72.3	108.5
116	3.6	3.0	4.4





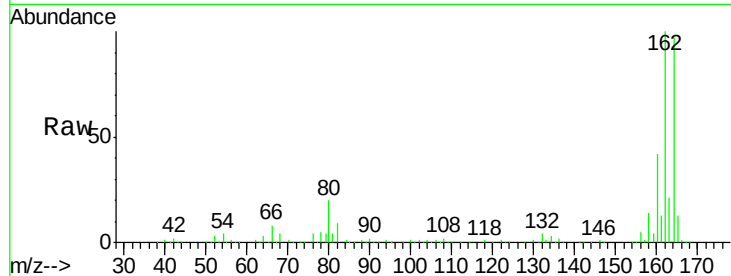
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.01 min
Lab File: BF114029.D
Acq: 29 Apr 2019 18:10

Instrument :
BNA_F
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C-3_042419

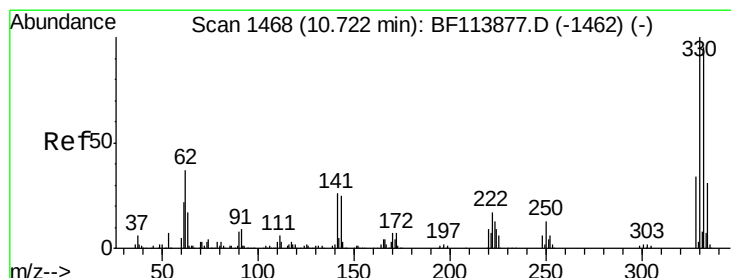
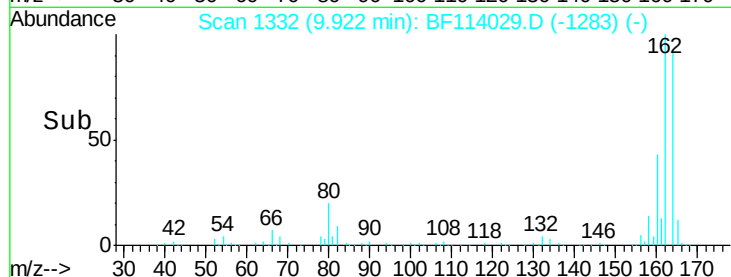
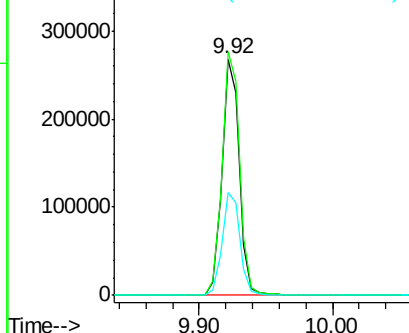
Tgt Ion	Ratio	Resp	Lower	Upper
164	100	246082		
162	103.1	81.1	121.7	
160	43.8	35.8	53.6	

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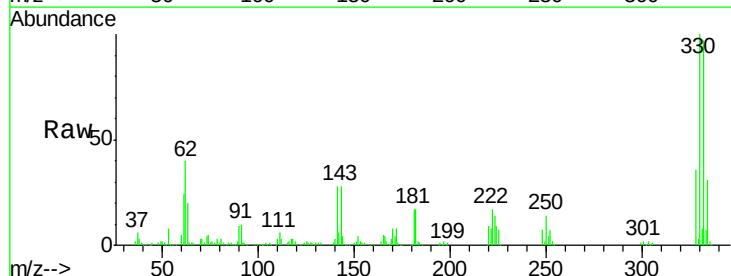


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

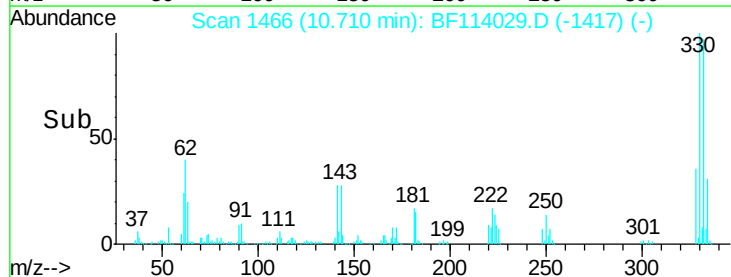
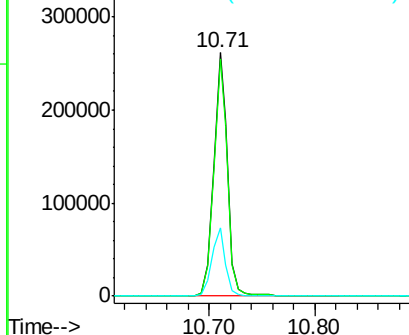


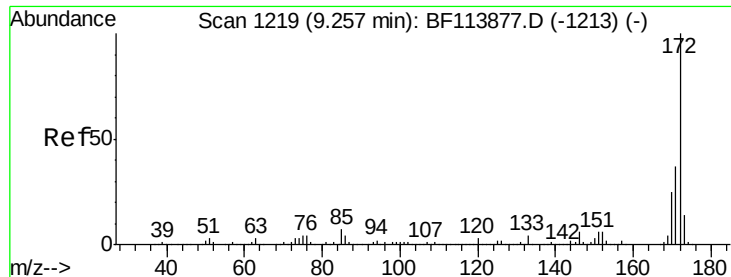
#42
2,4,6-Tribromophenol
Concen: 81.079 ng
RT: 10.71 min Scan# 1466
Delta R.T. -0.01 min
Lab File: BF114029.D
Acq: 29 Apr 2019 18:10

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	243056		
332	96.9	77.5	116.3	
141	28.1	22.2	33.2	



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





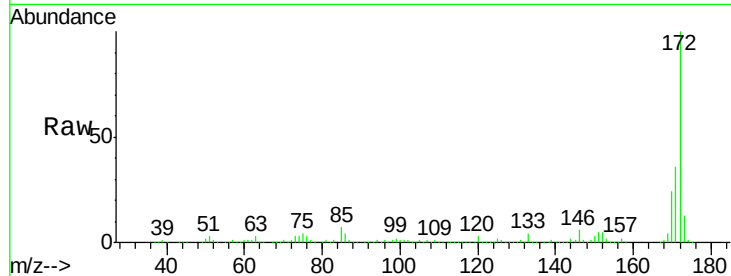
#45
2-Fluorobiphenyl
Concen: 58.235 ng
RT: 9.25 min Scan# 1217
Delta R.T. -0.01 min
Lab File: BF114029.D
Acq: 29 Apr 2019 18:10

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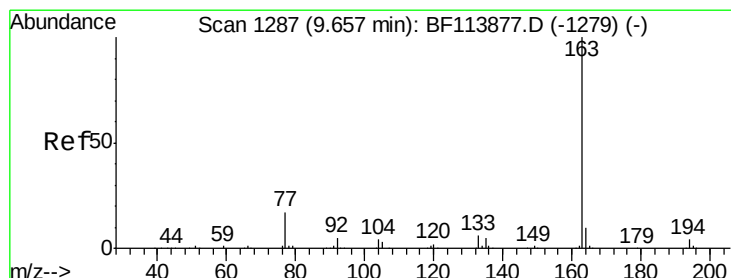
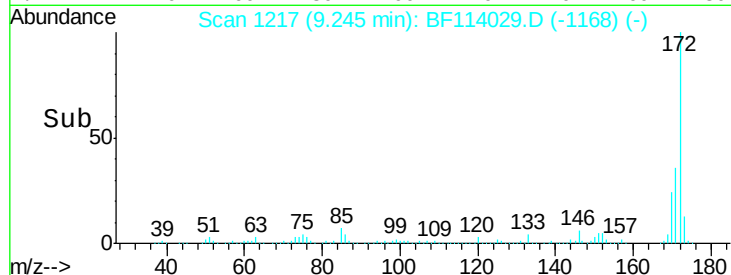
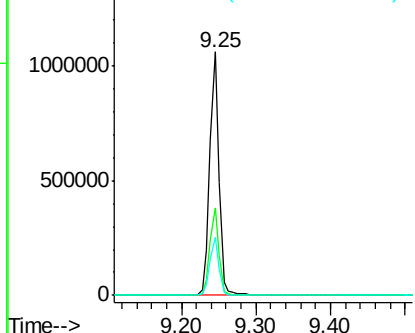
Tgt Ion	Ratio	Resp	Lower	Upper
172	100	916265		
171	36.1	29.4	44.0	
170	23.9	19.9	29.9	

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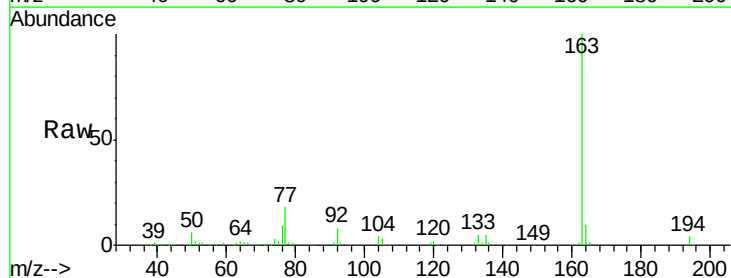


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

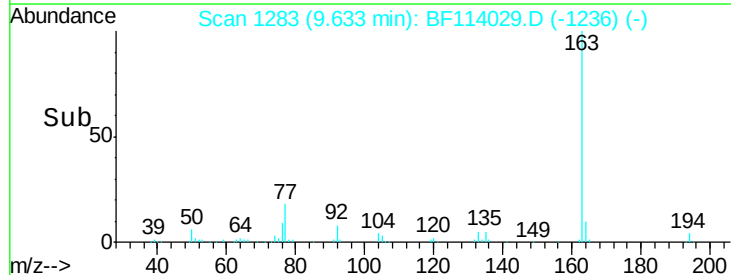
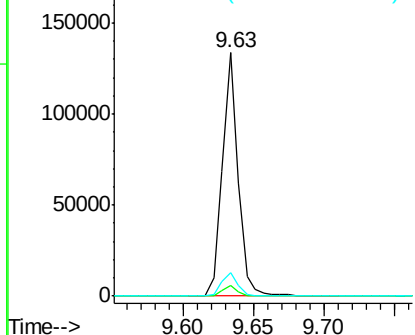


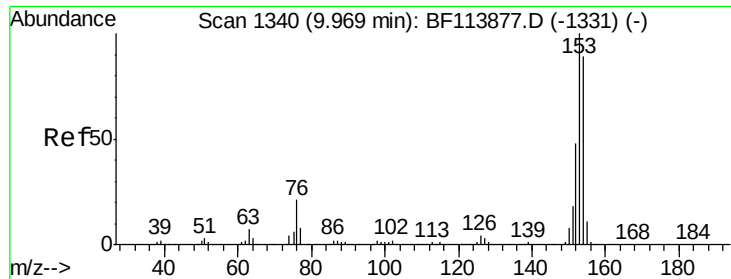
#50
Dimethylphthalate
Concen: 5.881 ng
RT: 9.63 min Scan# 1283
Delta R.T. -0.02 min
Lab File: BF114029.D
Acq: 29 Apr 2019 18:10

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	104660		
194	4.3	3.4	5.2	
164	9.6	8.5	12.7	



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#52

Acenaphthene

Concen: 6.274 ng

RT: 9.96 min Scan# 1338

Delta R.T. -0.01 min

Lab File: BF114029.D

Acq: 29 Apr 2019 18:10

Instrument :

BNA_F

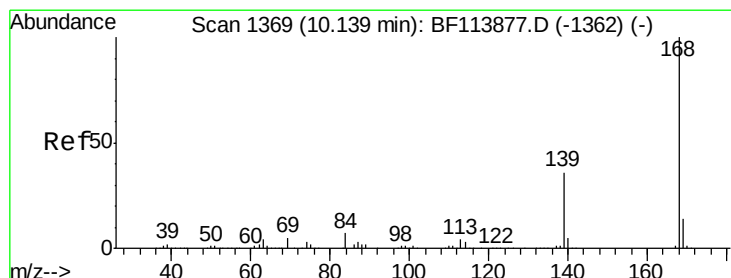
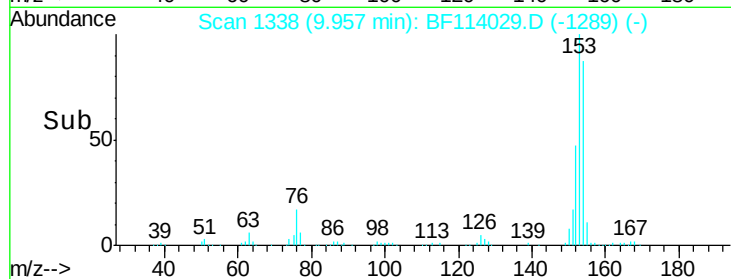
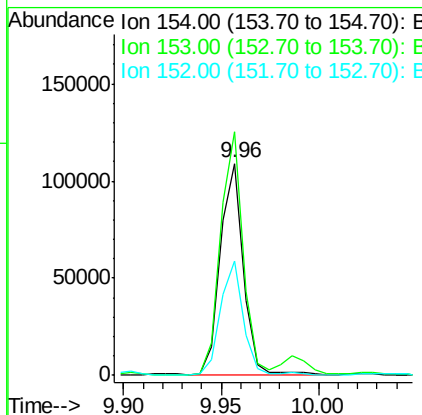
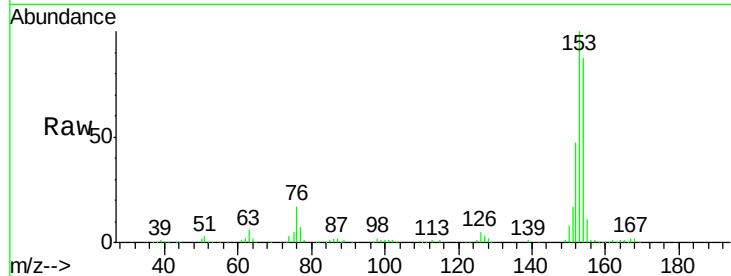
ClientSampleId :

C-3_042419

Tgt Ion:	154	Resp:	88741
Ion Ratio	Lower	Upper	
154	100		
153	114.8	87.2	130.8
152	53.8	42.3	63.5

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#55

Dibenzofuran

Concen: 3.881 ng

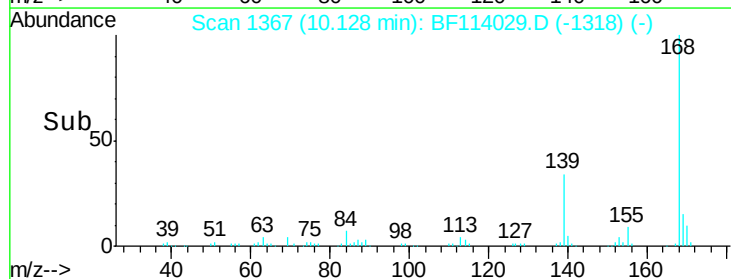
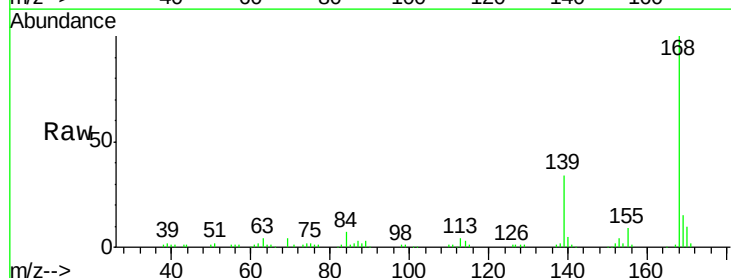
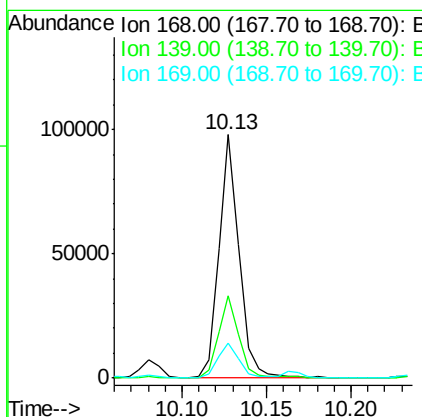
RT: 10.13 min Scan# 1367

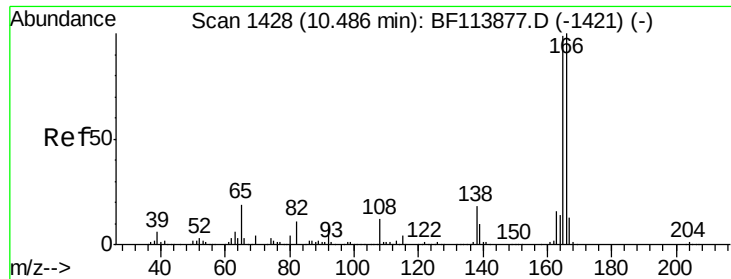
Delta R.T. -0.01 min

Lab File: BF114029.D

Acq: 29 Apr 2019 18:10

Tgt Ion:	168	Resp:	82232
Ion Ratio	Lower	Upper	
168	100		
139	33.6	27.8	41.6
169	14.6	11.0	16.6





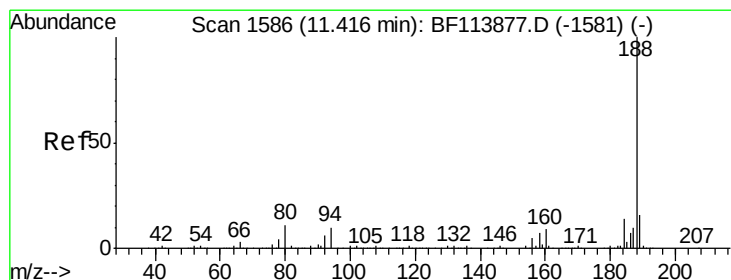
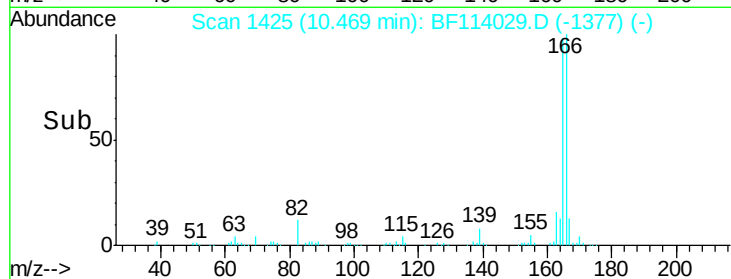
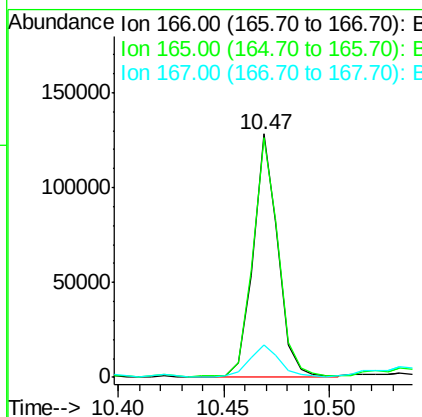
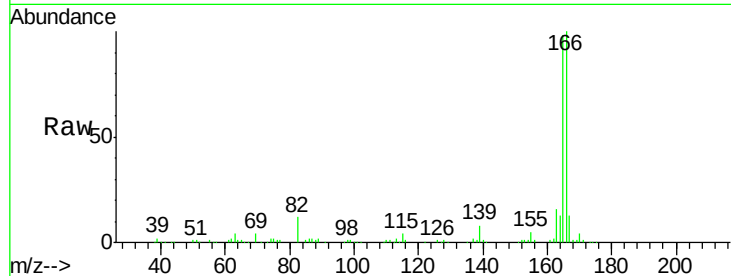
#58
 Fluorene
 Concen: 6.499 ng
 RT: 10.47 min Scan# 1425
 Delta R.T. -0.02 min
 Lab File: BF114029.D
 Acq: 29 Apr 2019 18:10

Instrument :
 BNA_F
 ClientSampleId :
 C-3_042419

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	103658		
165	98.2	78.4	117.6	
167	13.4	10.9	16.3	

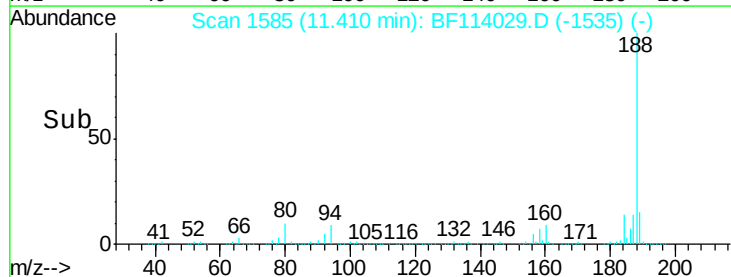
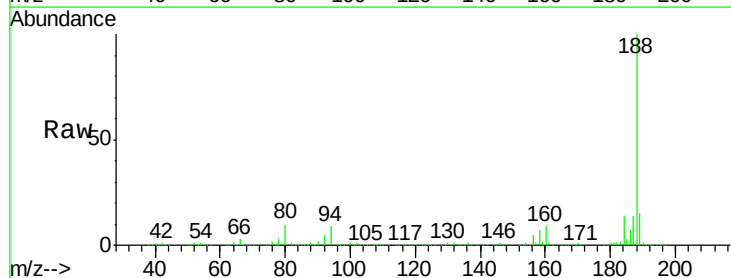
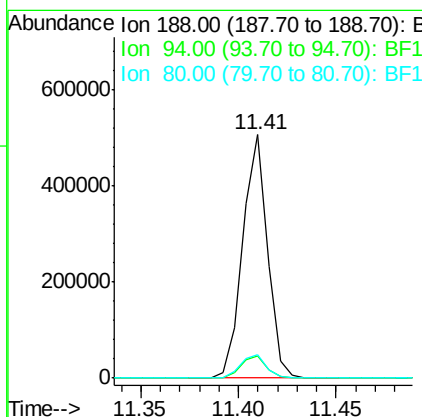
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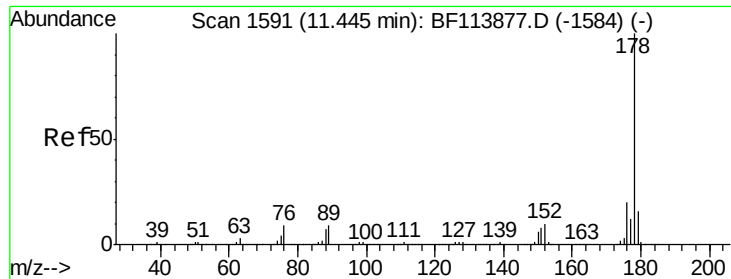
Sohil
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#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.41 min Scan# 1585
 Delta R.T. -0.01 min
 Lab File: BF114029.D
 Acq: 29 Apr 2019 18:10

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	447292		
94	8.9	8.2	12.4	
80	9.7	9.0	13.6	





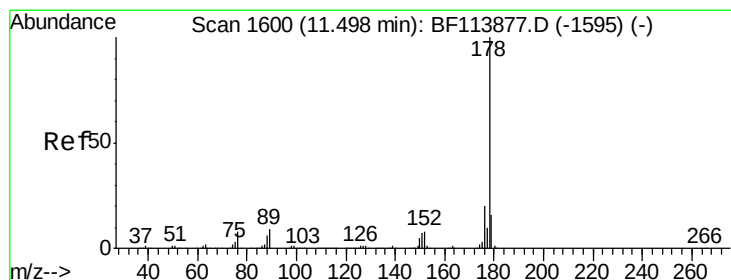
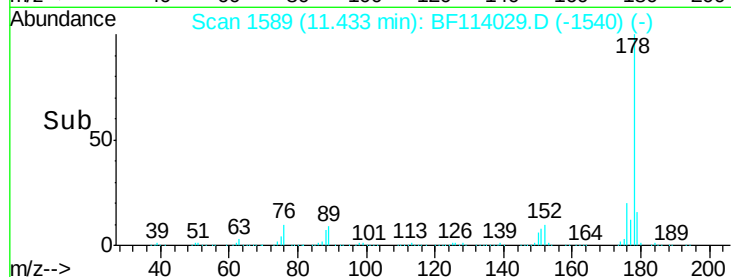
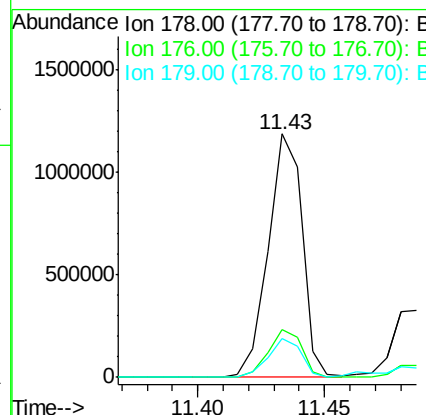
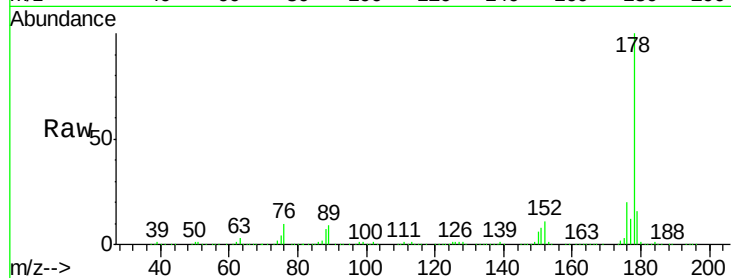
#71
Phenanthrene
Concen: 48.976 ng
RT: 11.43 min Scan# 1589
Delta R.T. -0.01 min
Lab File: BF114029.D
Acq: 29 Apr 2019 18:10

Instrument :
BNA_F
ClientSampleId :
C-3_042419

Tgt Ion:178 Resp: 1100930
Ion Ratio Lower Upper
178 100
176 19.8 16.1 24.1
179 15.9 12.8 19.2

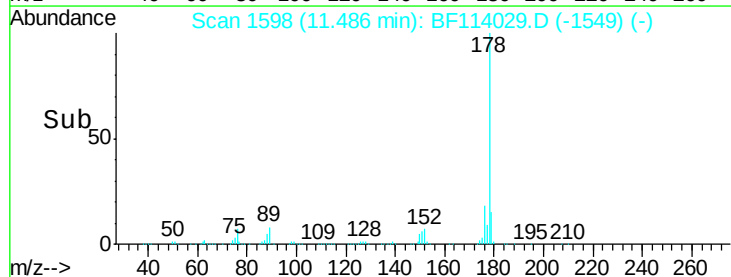
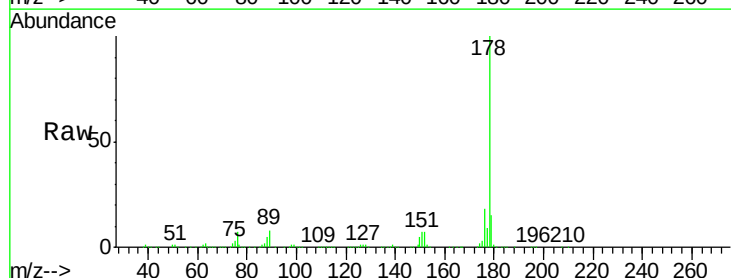
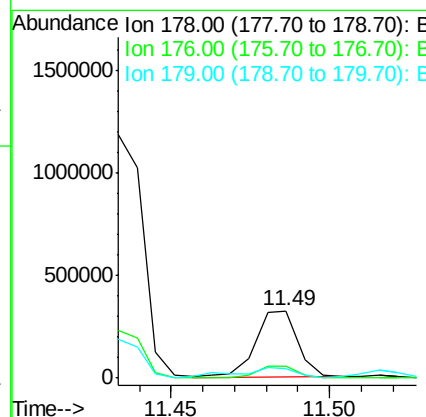
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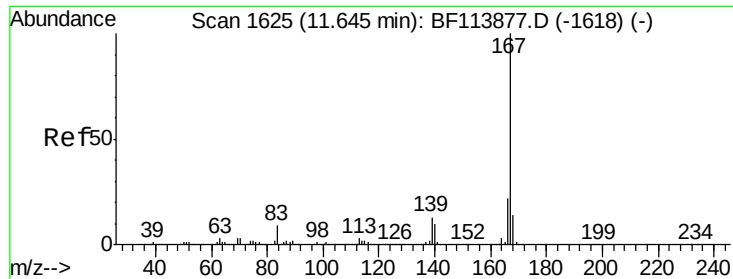
Sohil
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#72
Anthracene
Concen: 13.149 ng
RT: 11.49 min Scan# 1598
Delta R.T. -0.01 min
Lab File: BF114029.D
Acq: 29 Apr 2019 18:10

Tgt Ion:178 Resp: 298475
Ion Ratio Lower Upper
178 100
176 18.4 15.7 23.5
179 14.7 13.0 19.4





#73

Carbazole

Concen: 5.330 ng

RT: 11.63 min Scan# 1623

Delta R.T. -0.01 min

Lab File: BF114029.D

Acq: 29 Apr 2019 18:10

Instrument :

BNA_F

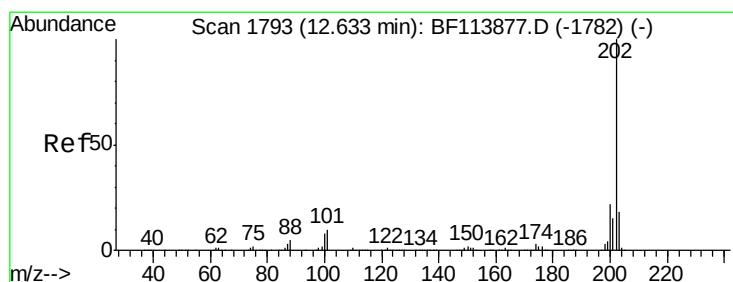
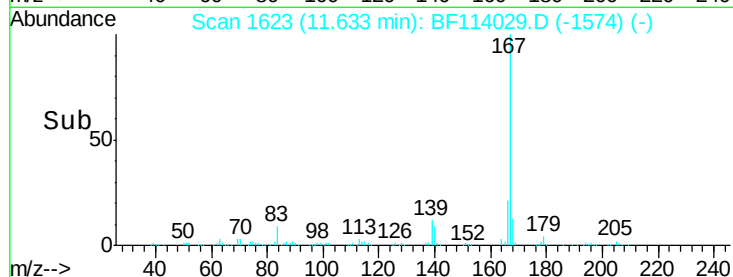
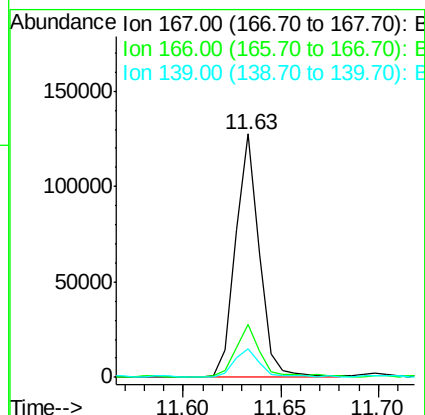
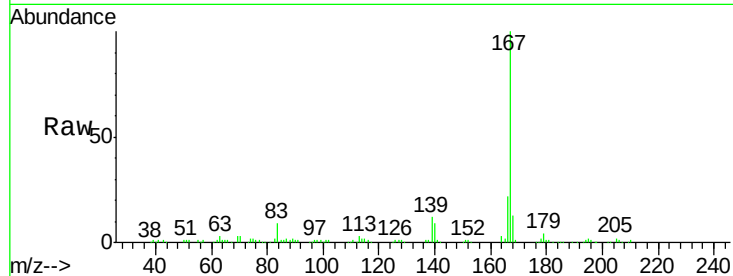
ClientSampleId :

C-3_042419

Tgt Ion:	167	Resp:	107943
Ion Ratio	Lower	Upper	
167	100		
166	21.6	17.7	26.5
139	11.8	10.0	15.0

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#75

Fluoranthene

Concen: 45.440 ng

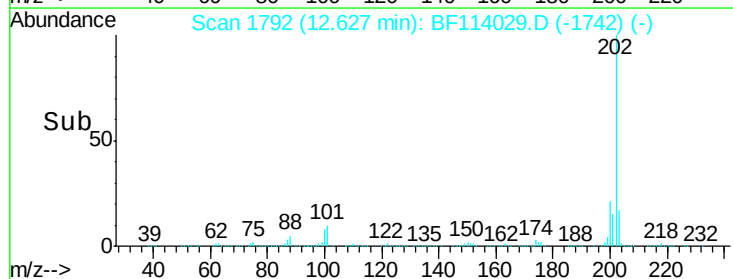
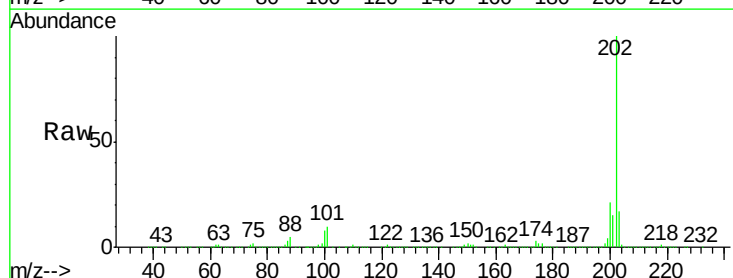
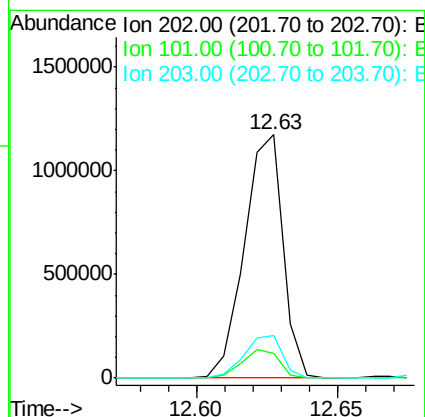
RT: 12.63 min Scan# 1792

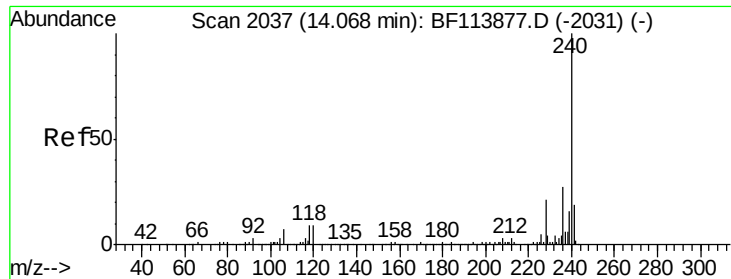
Delta R.T. -0.01 min

Lab File: BF114029.D

Acq: 29 Apr 2019 18:10

Tgt Ion:	202	Resp:	1114416
Ion Ratio	Lower	Upper	
202	100		
101	10.1	0.0	32.9
203	17.4	0.0	38.2





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.02 min

Lab File: BF114029.D

Acq: 29 Apr 2019 18:10

Instrument :

BNA_F

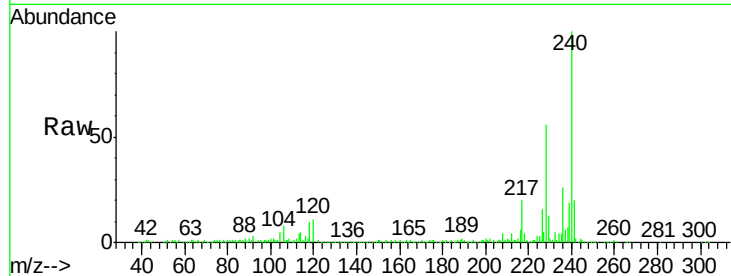
ClientSampleId :

C-3_042419

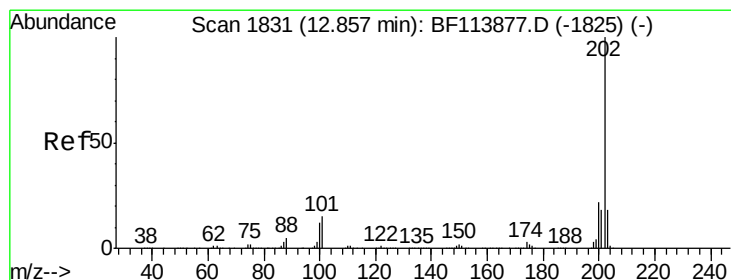
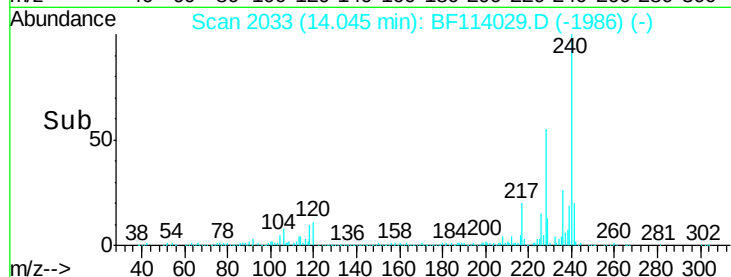
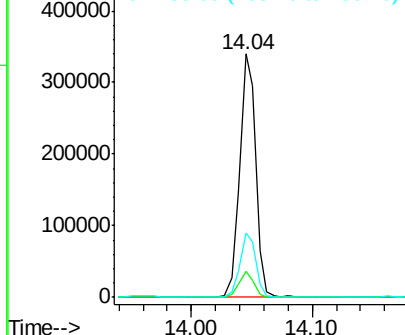
Tgt Ion:	240	Resp:	313852
Ion Ratio	Lower	Upper	
240	100		
120	10.8	9.3	13.9
236	26.3	21.2	31.8

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Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



#78

Pyrene

Concen: 44.907 ng

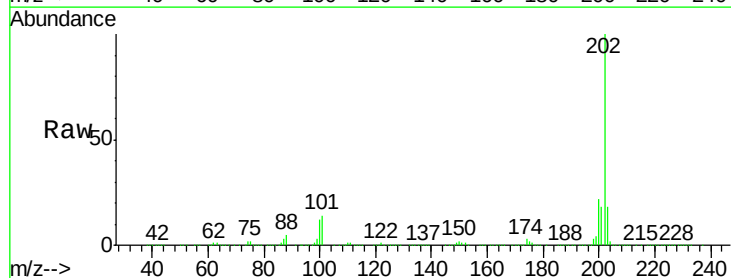
RT: 12.85 min Scan# 1830

Delta R.T. -0.01 min

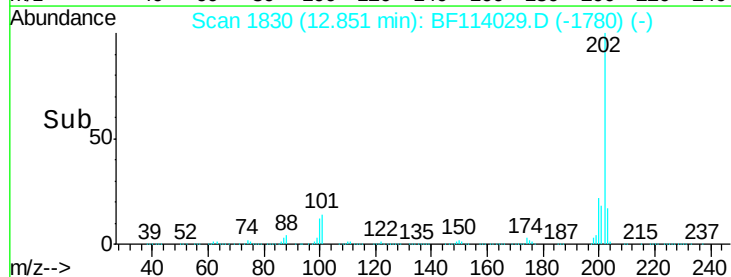
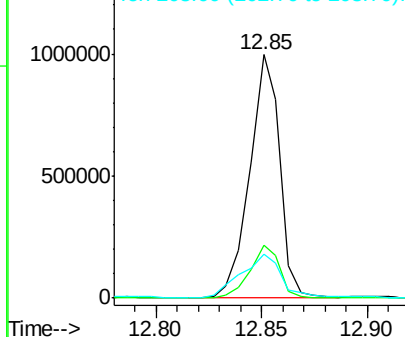
Lab File: BF114029.D

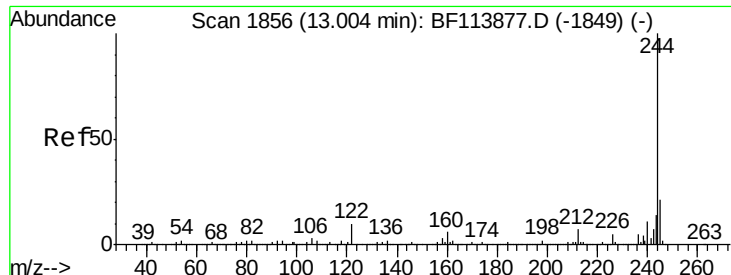
Acq: 29 Apr 2019 18:10

Tgt Ion:	202	Resp:	985620
Ion Ratio	Lower	Upper	
202	100		
200	21.8	17.7	26.5
203	18.1	15.0	22.6



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E





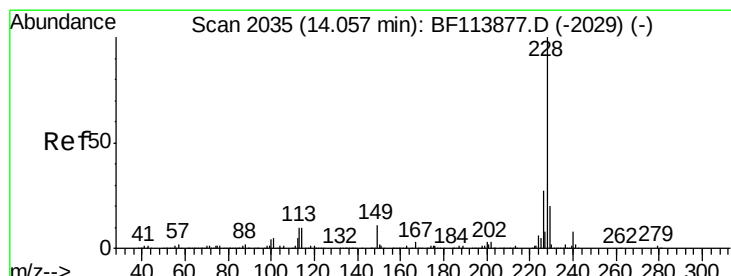
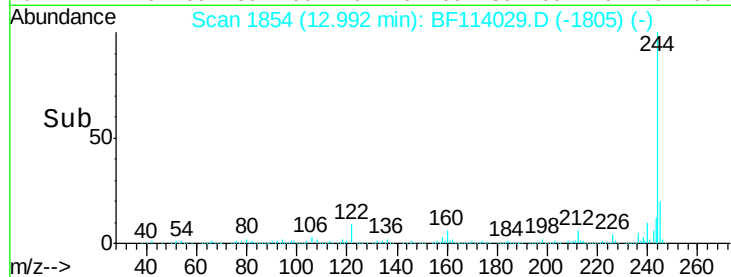
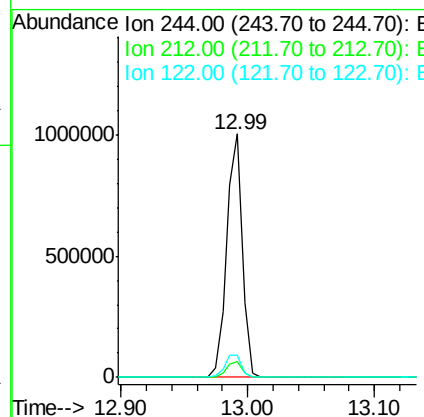
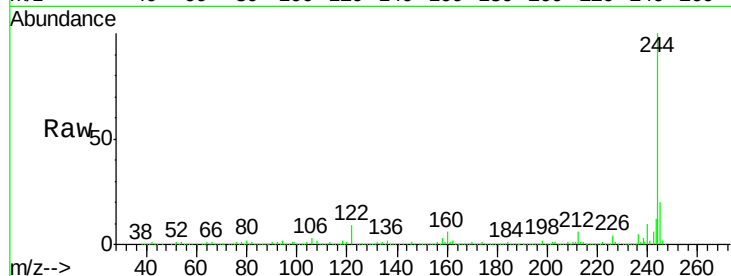
#79
 Terphenyl-d14
 Concen: 56.567 ng
 RT: 12.99 min Scan# 1854
 Delta R.T. -0.01 min
 Lab File: BF114029.D
 Acq: 29 Apr 2019 18:10

Instrument :
 BNA_F
 ClientSampled :
 C-3_042419

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	865970		
212	6.4		5.4	8.2
122	8.9		7.6	11.4

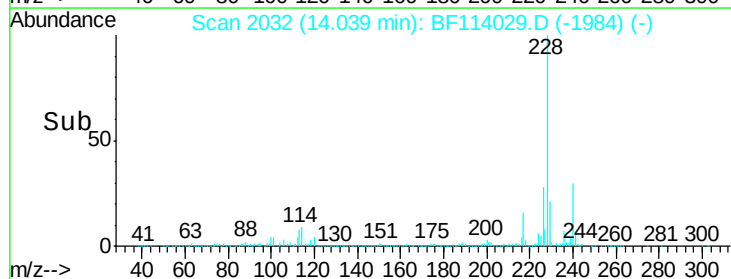
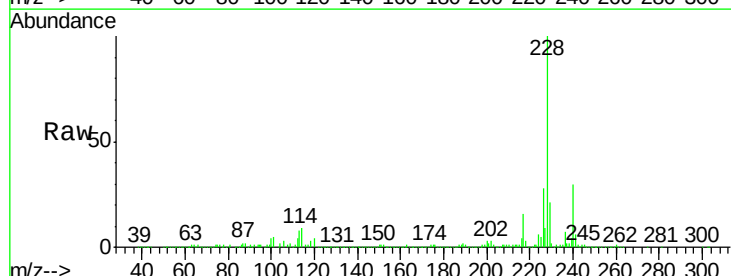
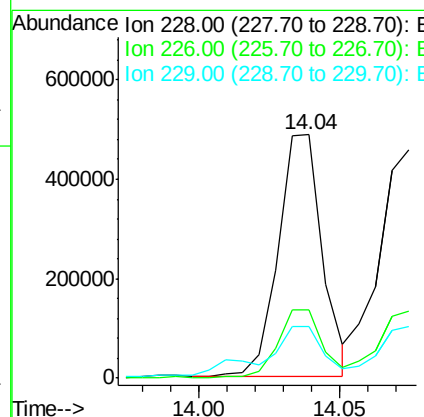
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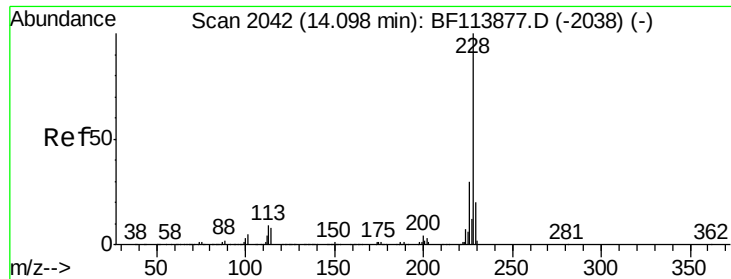
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#81
 Benzo(a)anthracene
 Concen: 28.495 ng
 RT: 14.04 min Scan# 2032
 Delta R.T. -0.02 min
 Lab File: BF114029.D
 Acq: 29 Apr 2019 18:10

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	526914		
226	27.9		22.2	33.2
229	21.2		16.0	24.0





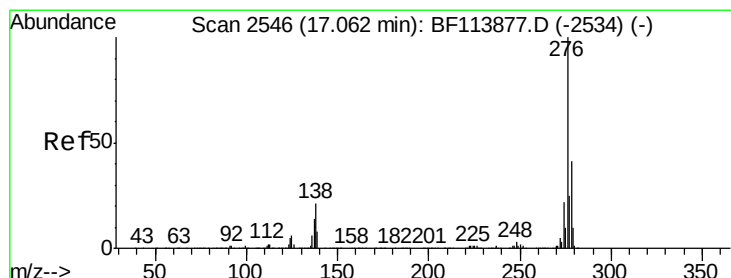
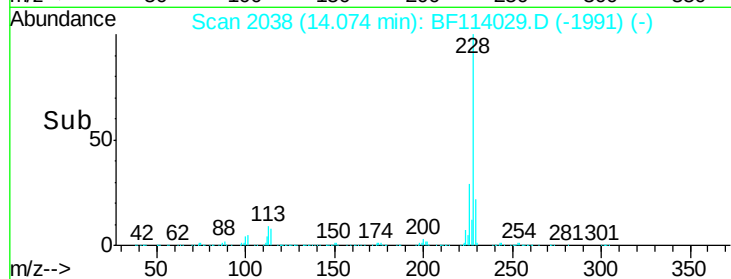
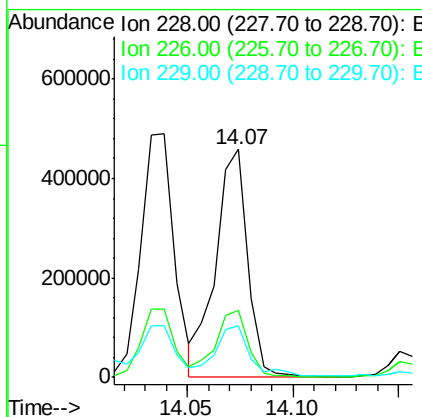
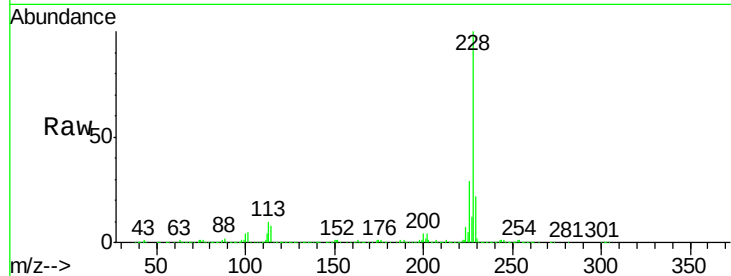
#83
Chrysene
Concen: 26.395 ng
RT: 14.07 min Scan# 2038
Delta R.T. -0.02 min
Lab File: BF114029.D
Acq: 29 Apr 2019 18:10

Instrument :
BNA_F
ClientSampleId :
C-3_042419

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	475349		
226	29.4		25.2	37.8
229	22.4		16.7	25.1

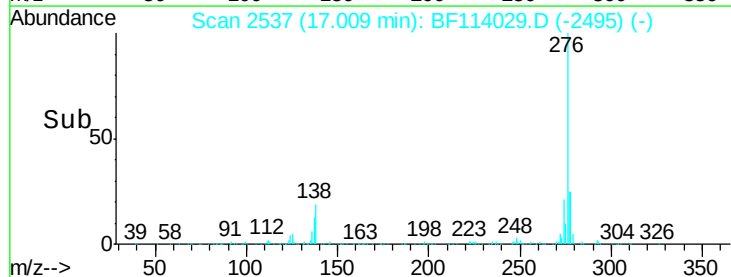
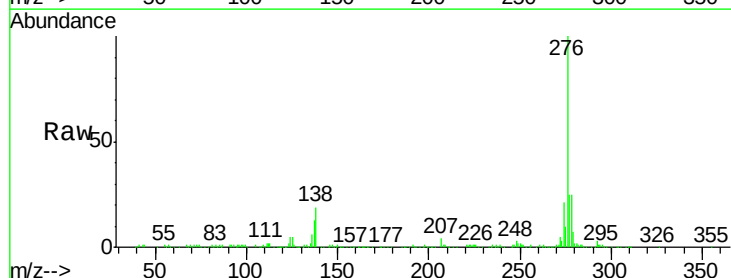
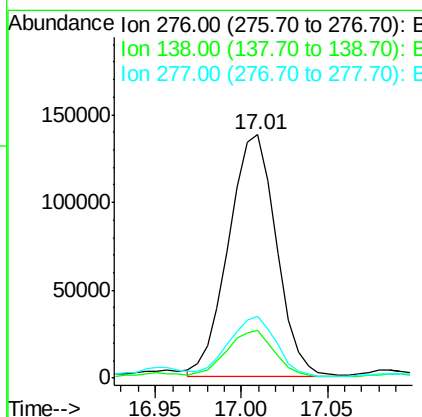
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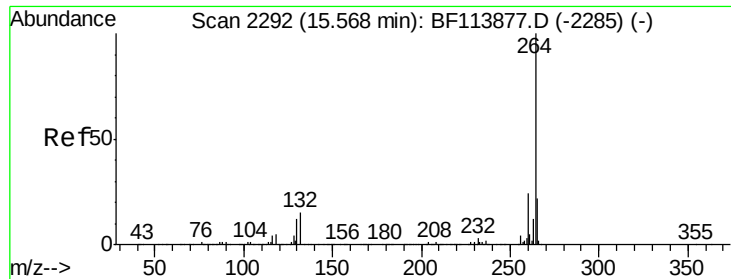
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#86
Indeno(1,2,3-cd)pyrene
Concen: 15.578 ng m
RT: 17.01 min Scan# 2537
Delta R.T. -0.05 min
Lab File: BF114029.D
Acq: 29 Apr 2019 18:10

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	265743		
138	4.4		19.6	29.4#
277	4.7		20.2	30.4#





#87

Perylene-d12

Concen: 20.000 ng

RT: 15.53 min Scan# 2285

Delta R.T. -0.04 min

Lab File: BF114029.D

Acq: 29 Apr 2019 18:10

Instrument :

BNA_F

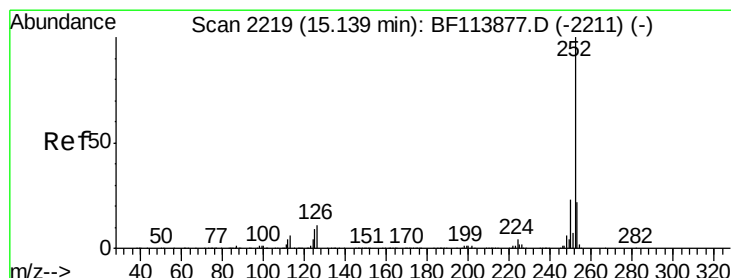
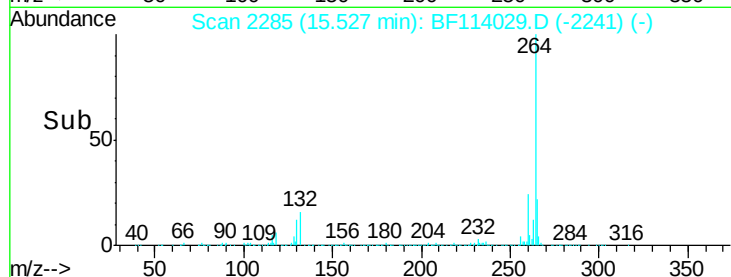
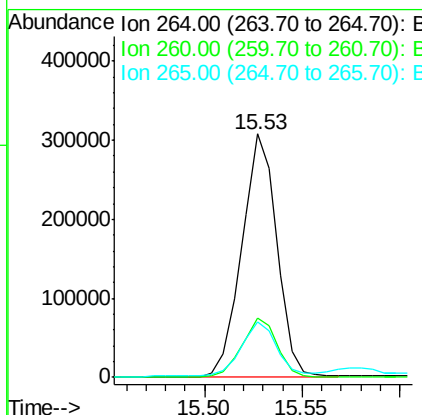
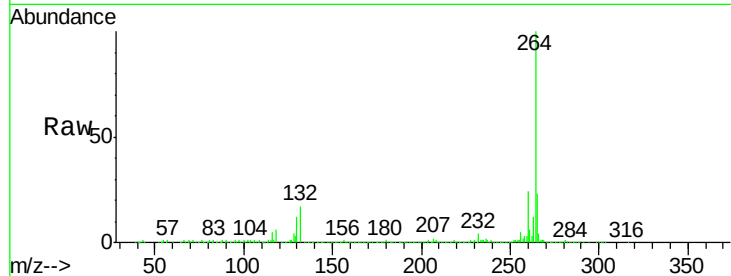
ClientSampleId :

C-3_042419

Tgt Ion:	264	Resp:	381949
Ion Ratio		Lower	Upper
264	100		
260	24.2	18.9	28.3
265	22.5	17.3	25.9

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#88

Benzo(b)fluoranthene

Concen: 25.302 ng m

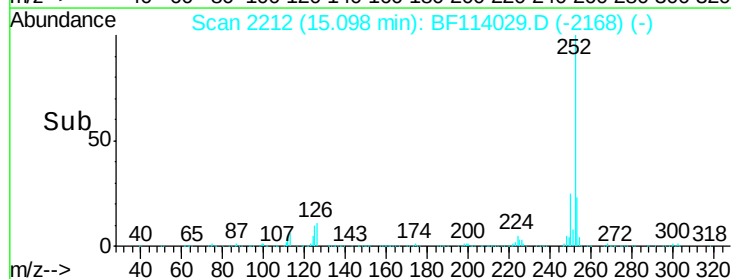
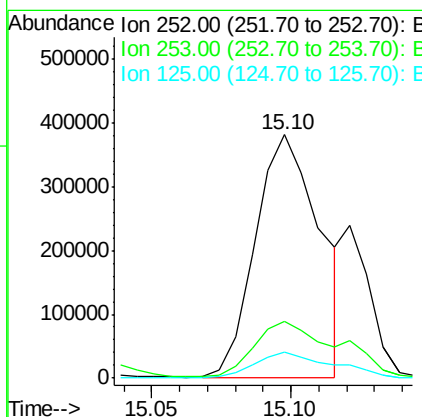
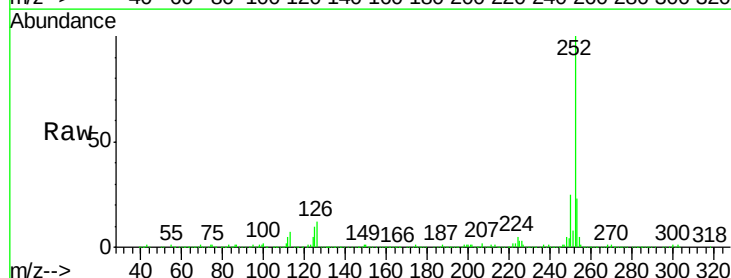
RT: 15.10 min Scan# 2212

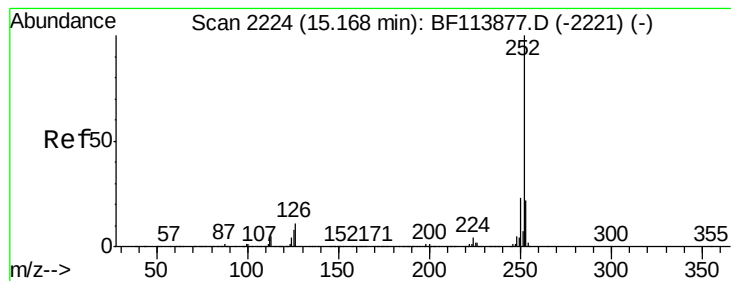
Delta R.T. -0.04 min

Lab File: BF114029.D

Acq: 29 Apr 2019 18:10

Tgt Ion:	252	Resp:	611437
Ion Ratio		Lower	Upper
252	100		
253	23.4	17.8	26.6
125	10.5	7.0	10.6





#89

Benzo(k)fluoranthene

Concen: 7.834 ng m

RT: 15.12 min Scan# 2216

Delta R.T. -0.05 min

Lab File: BF114029.D

Acq: 29 Apr 2019 18:10

Instrument :

BNA_F

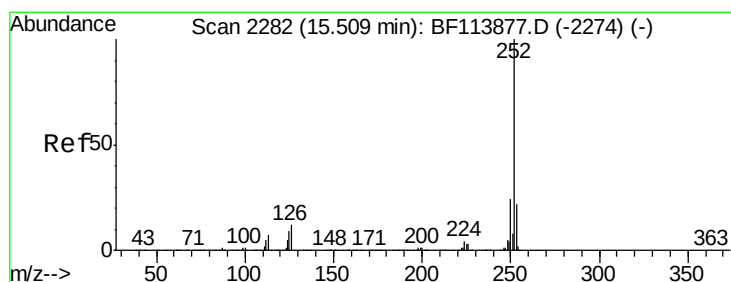
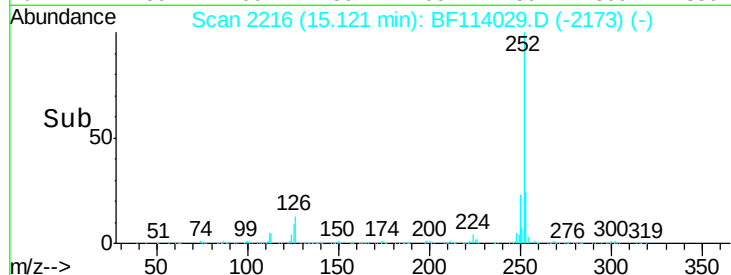
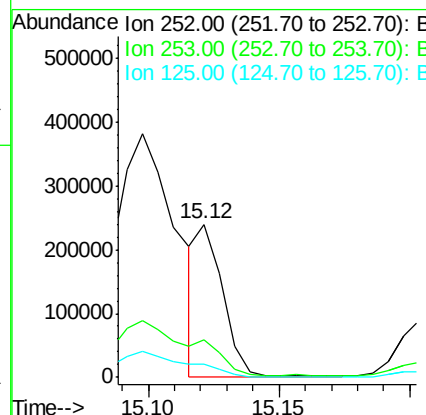
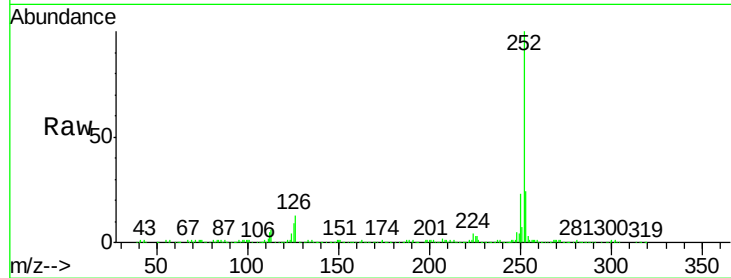
ClientSampled :

C-3_042419

Tgt Ion:	252	Resp:	162846
Ion Ratio	Lower	Upper	
252	100		
253	24.2	18.2	27.2
125	9.0	7.4	11.2

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#90

Benzo(a)pyrene

Concen: 21.979 ng

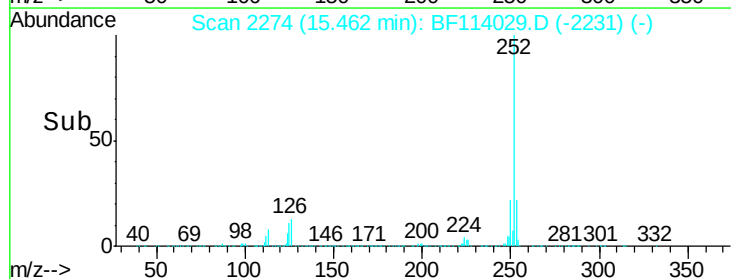
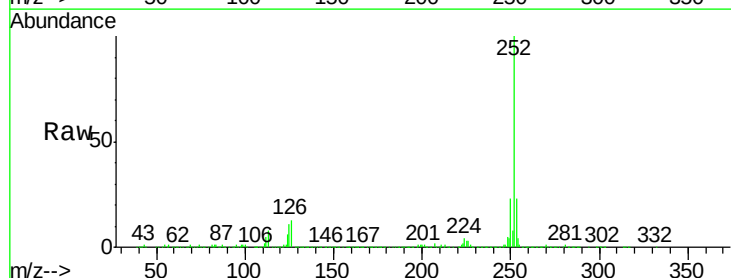
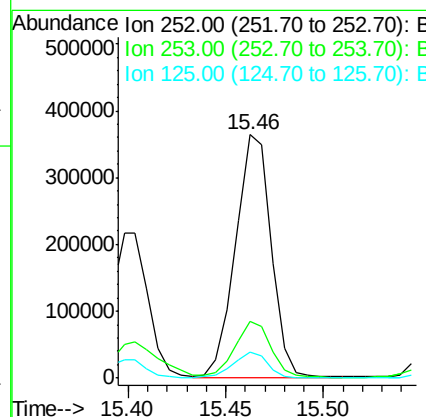
RT: 15.46 min Scan# 2274

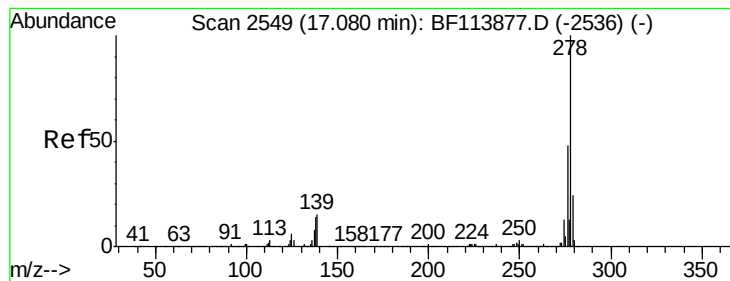
Delta R.T. -0.05 min

Lab File: BF114029.D

Acq: 29 Apr 2019 18:10

Tgt Ion:	252	Resp:	459415
Ion Ratio	Lower	Upper	
252	100		
253	23.2	17.5	26.3
125	10.7	8.5	12.7





#91

Dibenzo(a,h)anthracene

Concen: 3.955 ng

RT: 17.02 min Scan# 2538

Delta R.T. -0.06 min

Lab File: BF114029.D

Acq: 29 Apr 2019 18:10

Instrument :

BNA_F

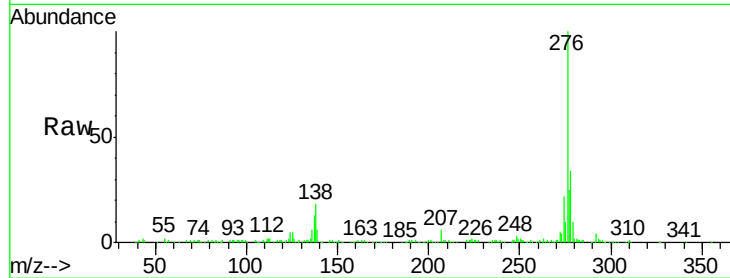
ClientSampled :

C-3_042419

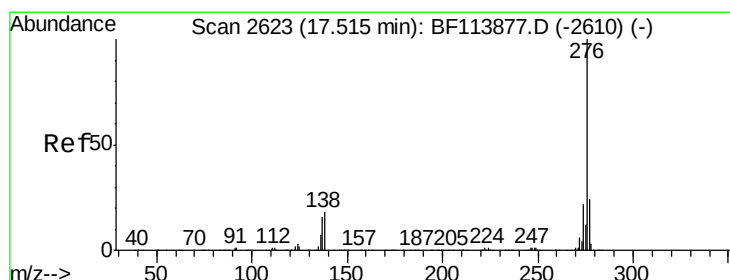
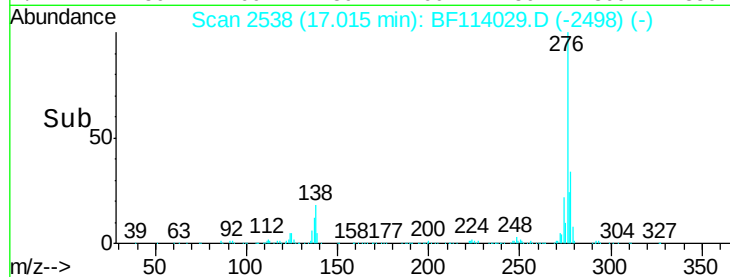
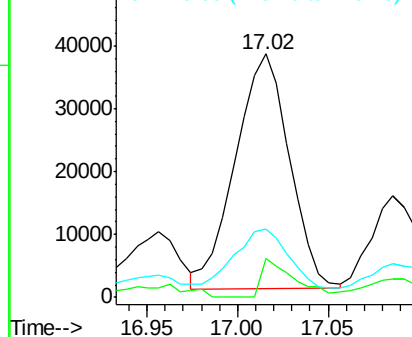
Tgt Ion:	278	Resp:	77595
Ion Ratio	Lower	Upper	
278	100		
139	16.1	11.6	17.4
279	27.9	19.0	28.6

Manual Integrations
APPROVED

Sohil
4/30/2019 6:42:24 PM



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 12.061 ng

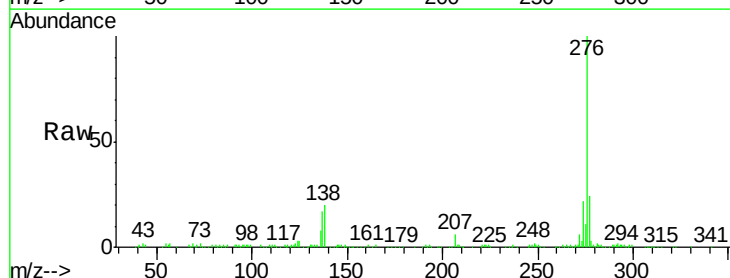
RT: 17.46 min Scan# 2613

Delta R.T. -0.06 min

Lab File: BF114029.D

Acq: 29 Apr 2019 18:10

Tgt Ion:	276	Resp:	238811
Ion Ratio	Lower	Upper	
276	100		
277	24.1	19.0	28.4
138	19.9	16.6	25.0



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

