

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
 Data File : BF113572.D
 Acq On : 4 Apr 2019 5:16
 Operator : JU/SJ
 Sample : K2197-03 5X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-040219-B

Manual Integrations
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 4/4/2019 10:58:16 AM

Quant Time: Apr 04 07:59:49 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 04 04:05:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	111055	20.00	ng	0.00
21) Naphthalene-d8	7.97	136	386632	20.00	ng	0.00
39) Acenaphthene-d10	9.72	164	167277	20.00	ng	0.00
64) Phenanthrene-d10	11.21	188	330913	20.00	ng	0.00
76) Chrysene-d12	13.86	240	237175	20.00	ng	0.01
87) Perylene-d12	15.27	264	205689	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	143432	22.02	ng	0.00
7) Phenol-d6	6.33	99	191621	23.87	ng	0.00
23) Nitrobenzene-d5	7.25	82	95043	14.40	ng	-0.01
42) 2,4,6-Tribromophenol	10.52	330	43168	21.48	ng	0.00
45) 2-Fluorobiphenyl	9.05	172	200445	19.29	ng	0.00
79) Terphenyl-d14	12.79	244	227638	19.54	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.99	128	1462344	78.062	ng	100
37) 2-Methylnaphthalene	8.68	142	309328	25.106	ng	97
38) 1-Methylnaphthalene	8.78	142	172233	14.497	ng	100
46) 1,1'-Biphenyl	9.15	154	109643	7.943	ng	97
52) Acenaphthene	9.76	154	510477	52.474	ng	100
55) Dibenzofuran	9.93	168	758219	53.133	ng	98
58) Fluorene	10.27	166	799288	70.817	ng	99
71) Phenanthrene	11.25	178	3502107	212.981	ng	98
72) Anthracene	11.29	178	1406821	84.091	ng	99
73) Carbazole	11.45	167	627628	40.111	ng	99
75) Fluoranthene	12.44	202	3925746	222.798	ng	97
78) Pyrene	12.66	202	3185880	176.538	ng	97
81) Benzo(a)anthracene	13.84	228	1690509	123.561	ng	98
83) Chrysene	13.88	228	1243044	89.626	ng	97
86) Indeno(1,2,3-cd)pyrene	16.64	276	568545	44.399	ng	97
88) Benzo(b)fluoranthene	14.87	252	1410512m	112.028	ng	
89) Benzo(k)fluoranthene	14.89	252	479195m	42.407	ng	
90) Benzo(a)pyrene	15.22	252	1032450	92.281	ng	97
91) Dibenzo(a,h)anthracene	16.64	278	148734m	14.216	ng	
92) Benzo(g,h,i)perylene	17.05	276	514526	48.181	ng	96

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

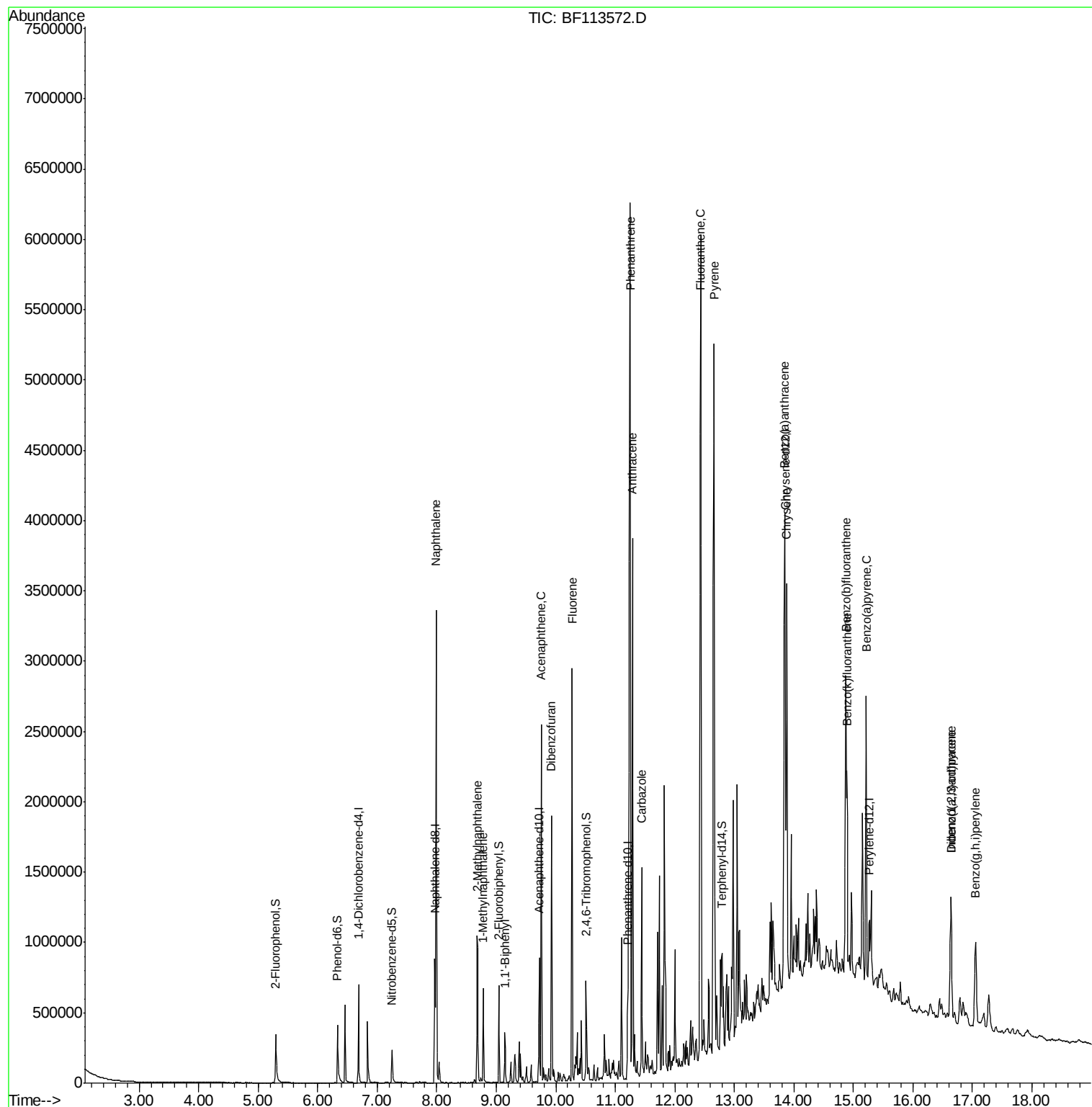
Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
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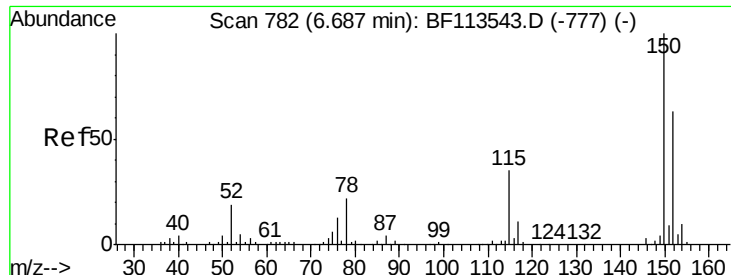
Instrument :
BNA_F
ClientSampleId :
CL-02-040219-B

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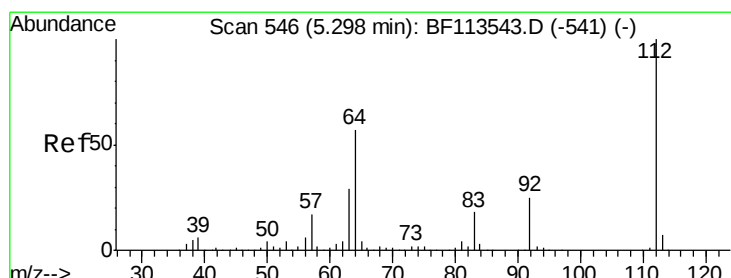
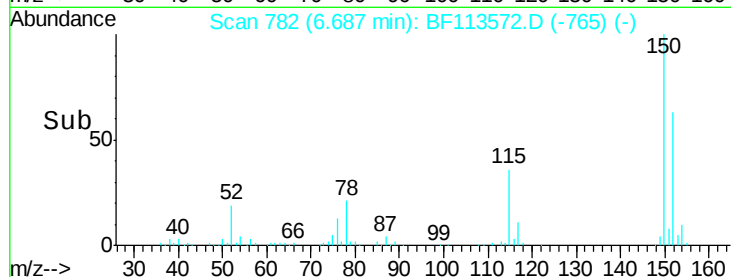
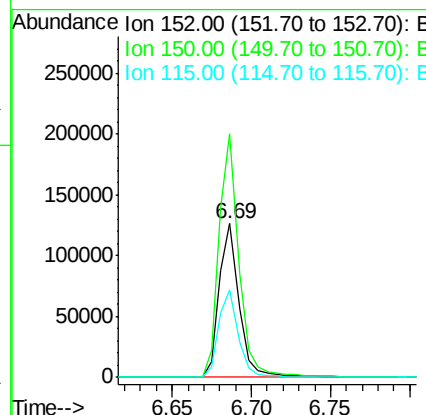
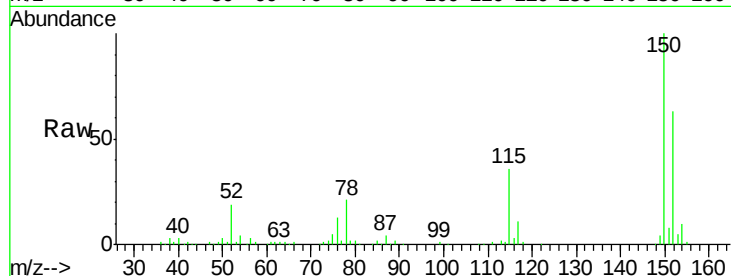
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.69 min Scan# 782
 Delta R.T. 0.00 min
 Lab File: BF113572.D
 Acq: 4 Apr 2019 5:16

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-040219-B

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	111055		
150	158.6	124.7	187.1	
115	56.6	46.0	69.0	

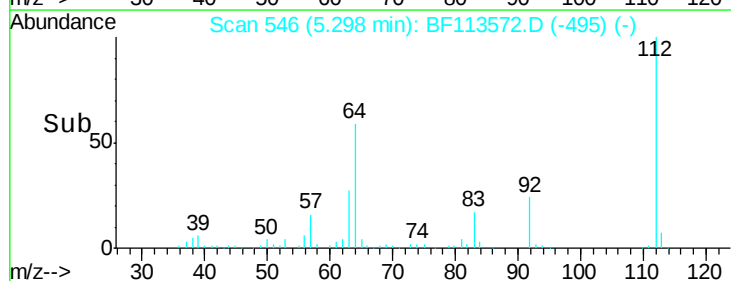
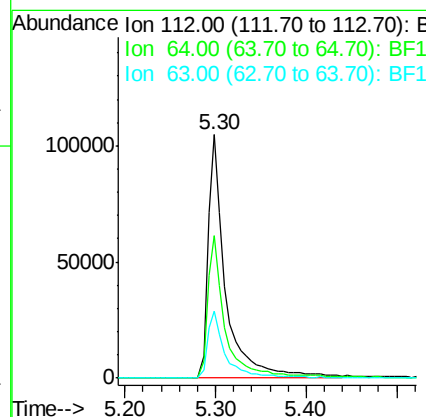
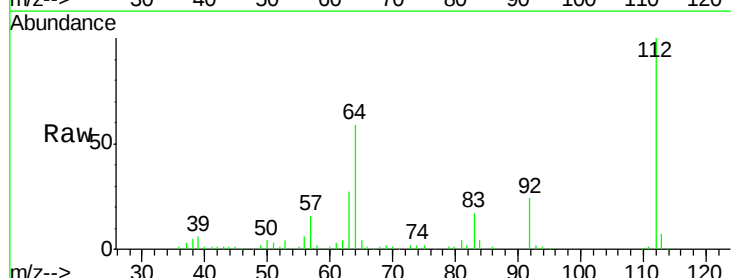
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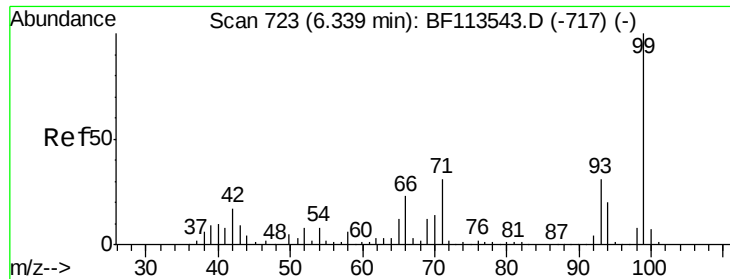
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#5
 2-Fluorophenol
 Concen: 22.024 ng
 RT: 5.30 min Scan# 546
 Delta R.T. 0.00 min
 Lab File: BF113572.D
 Acq: 4 Apr 2019 5:16

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	143432		
64	58.7	49.2	73.8	
63	27.3	24.9	37.3	





#7

Phenol-d6

Concen: 23.873 ng

RT: 6.33 min Scan# 722

Delta R.T. -0.01 min

Lab File: BF113572.D

Acq: 4 Apr 2019 5:16

Instrument :

BNA_F

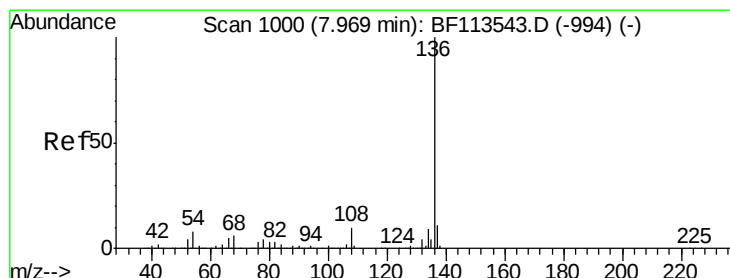
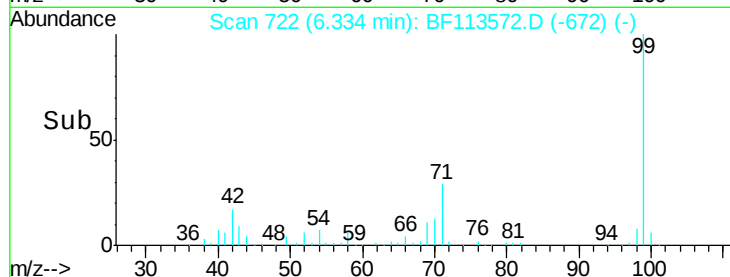
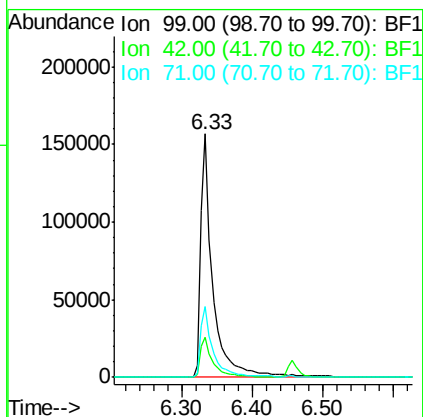
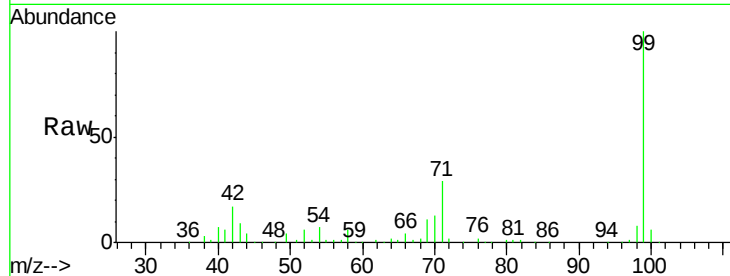
ClientSampleId :

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Tgt Ion:	99	Resp:	191621
Ion Ratio	Lower	Upper	
99	100		
42	16.6	14.8	22.2
71	29.2	24.9	37.3

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#21

Naphthalene-d8

Concen: 20.000 ng

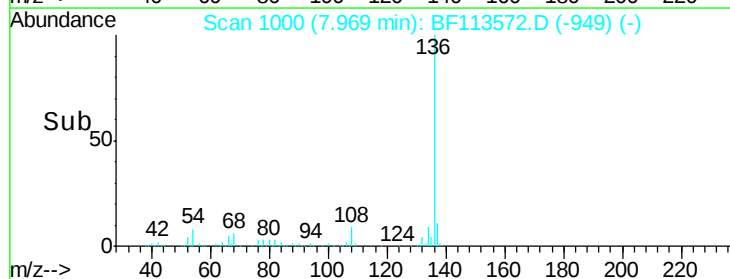
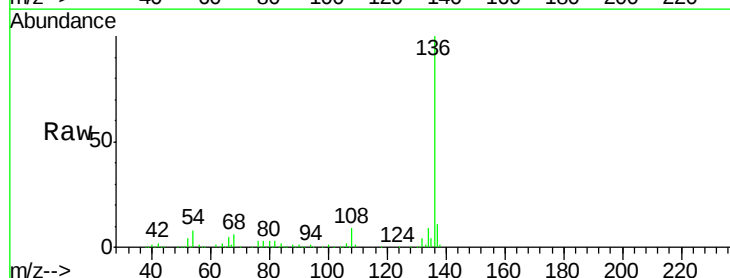
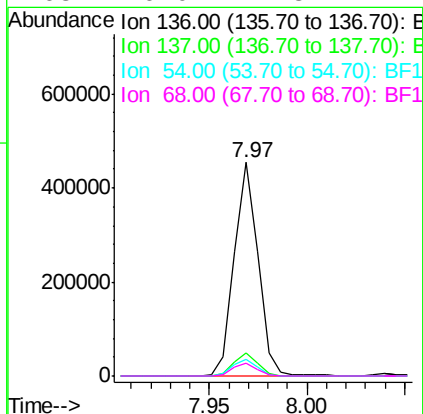
RT: 7.97 min Scan# 1000

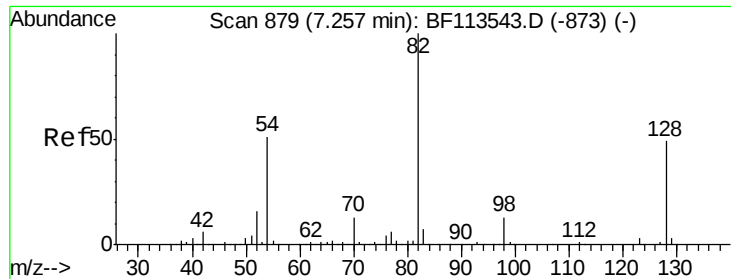
Delta R.T. 0.00 min

Lab File: BF113572.D

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Tgt Ion:	136	Resp:	386632
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.9	13.3
54	7.6	7.0	10.6
68	6.0	4.8	7.2





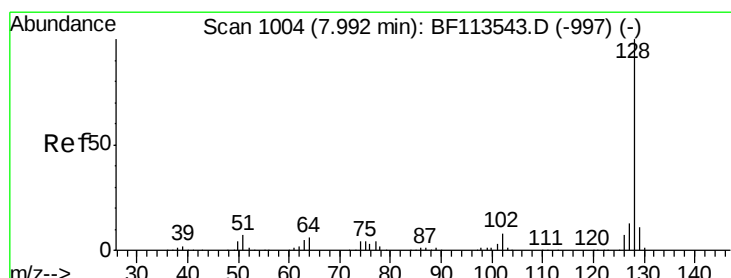
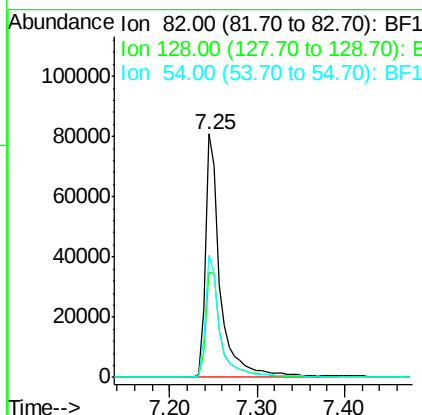
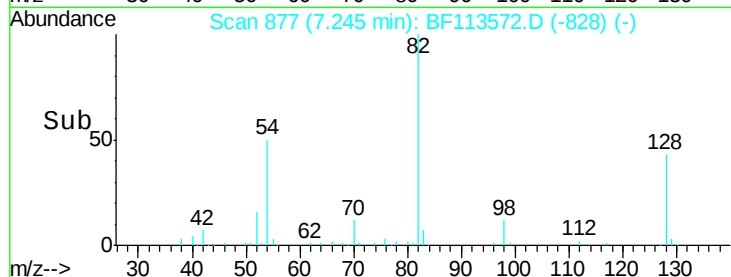
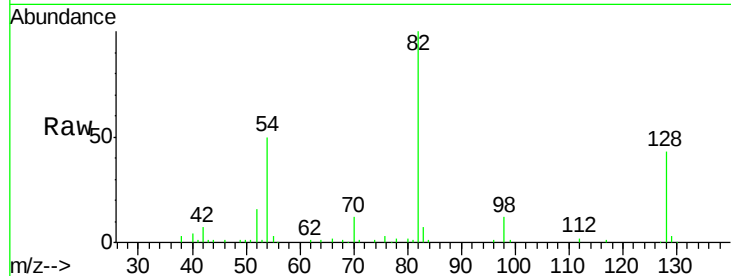
#23
Nitrobenzene-d5
Concen: 14.399 ng
RT: 7.25 min Scan# 877
Delta R.T. -0.01 min
Lab File: BF113572.D
Acq: 4 Apr 2019 5:16

Instrument :
BNA_F
ClientSampleId :
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Tgt Ion: 82 Resp: 95043
Ion Ratio Lower Upper
82 100
128 43.3 36.5 54.7
54 50.1 42.2 63.2

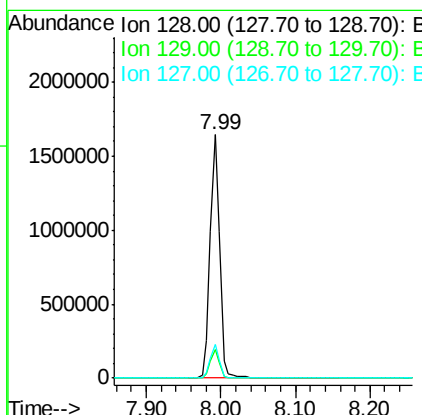
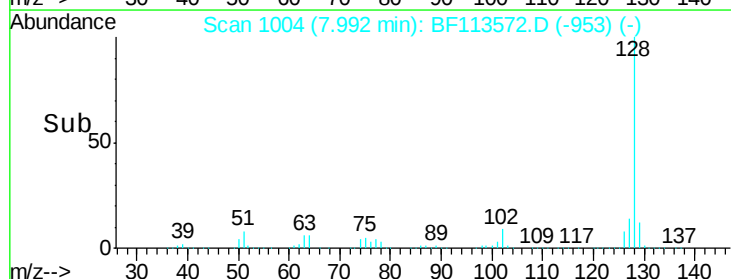
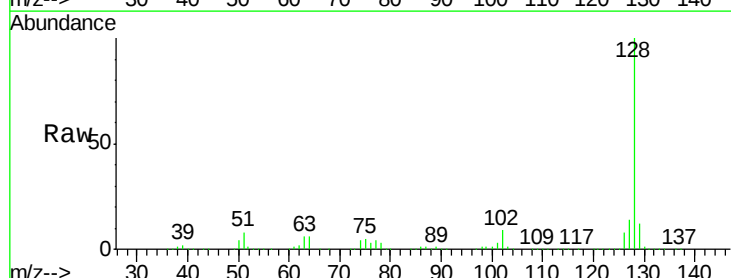
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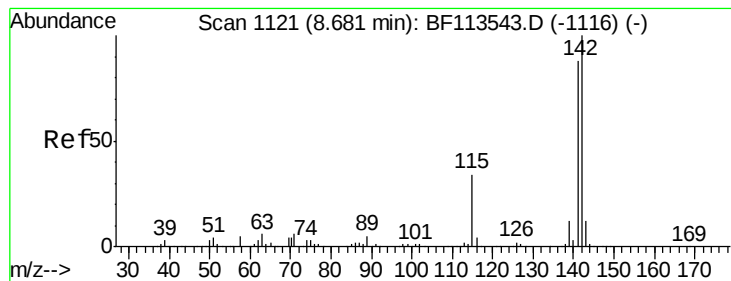
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#31
Naphthalene
Concen: 78.062 ng
RT: 7.99 min Scan# 1004
Delta R.T. 0.00 min
Lab File: BF113572.D
Acq: 4 Apr 2019 5:16

Tgt Ion: 128 Resp: 1462344
Ion Ratio Lower Upper
128 100
129 11.7 9.3 13.9
127 13.6 10.9 16.3





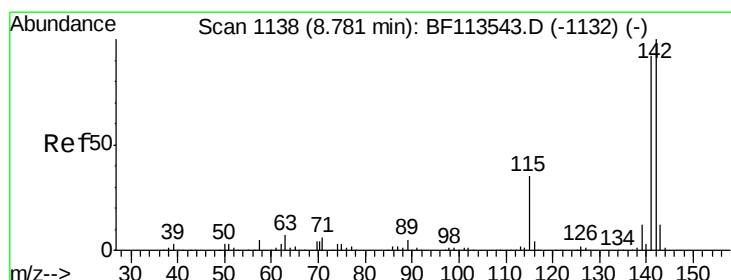
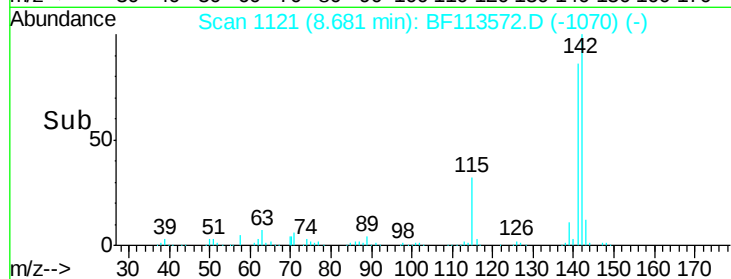
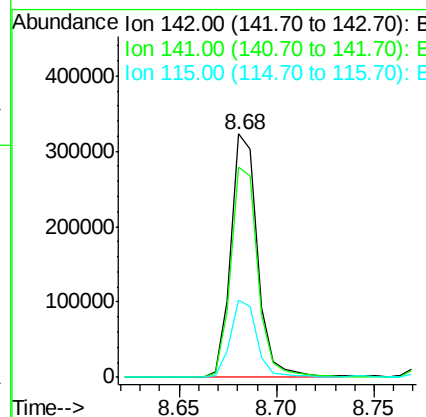
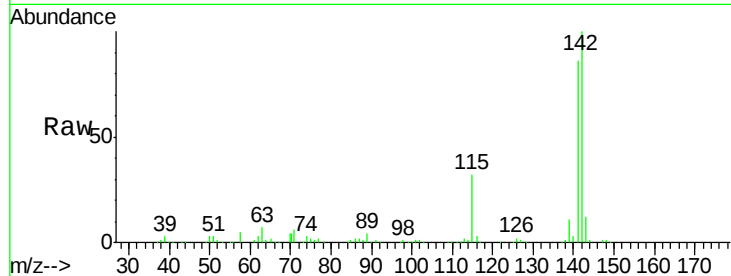
#37
2-Methylnaphthalene
Concen: 25.106 ng
RT: 8.68 min Scan# 1121
Delta R.T. 0.00 min
Lab File: BF113572.D
Acq: 4 Apr 2019 5:16

Instrument :
BNA_F
ClientSampleId :
CL-02-040219-B

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	309328		
141	86.3	71.0	106.6	
115	31.7	26.6	39.8	

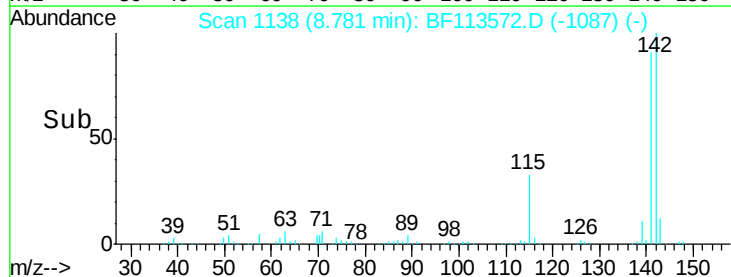
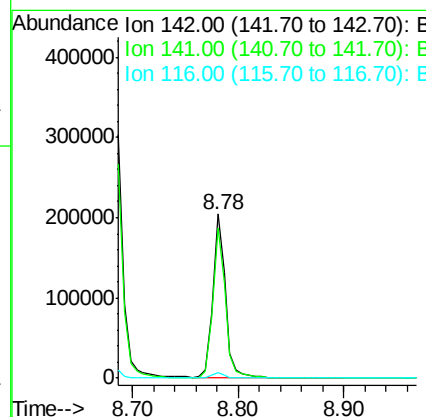
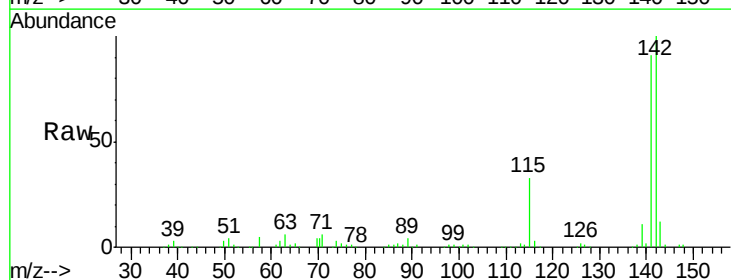
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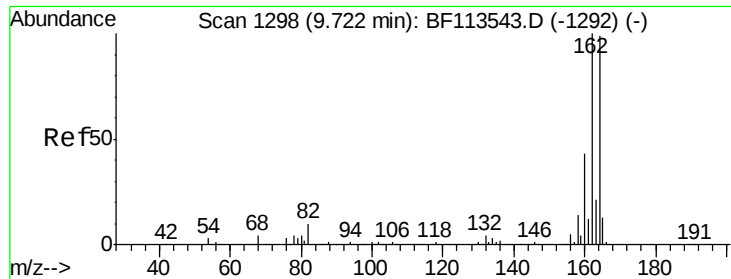
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#38
1-Methylnaphthalene
Concen: 14.497 ng
RT: 8.78 min Scan# 1138
Delta R.T. 0.00 min
Lab File: BF113572.D
Acq: 4 Apr 2019 5:16

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	172233		
141	91.5	73.2	109.8	
116	3.5	3.0	4.4	





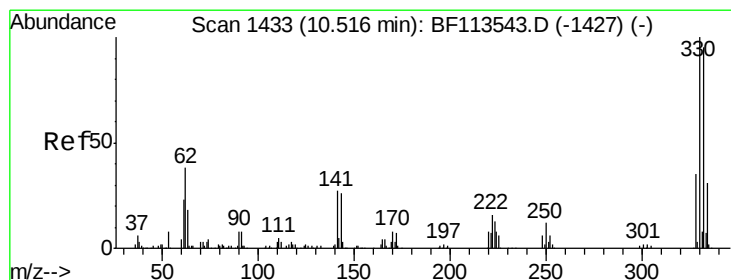
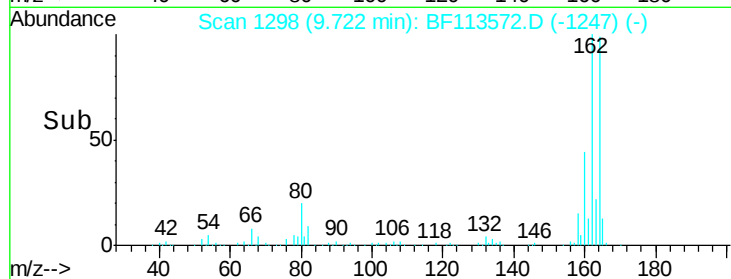
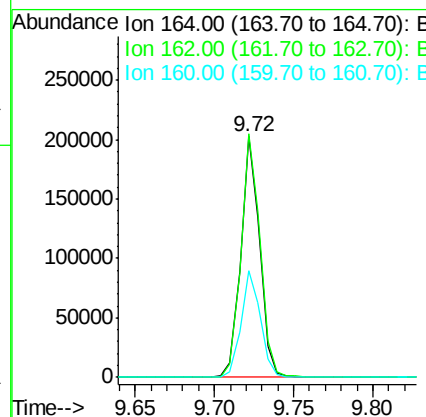
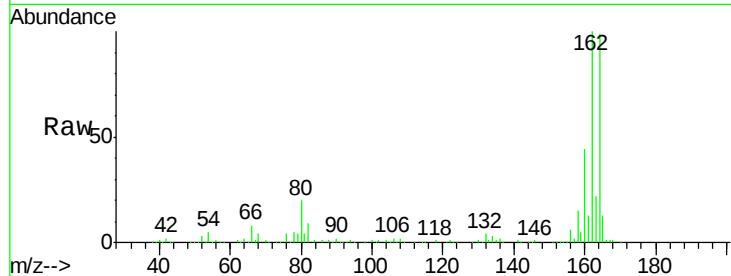
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.72 min Scan# 1298
 Delta R.T. 0.00 min
 Lab File: BF113572.D
 Acq: 4 Apr 2019 5:16

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-040219-B

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	167277		
162	101.1	81.8	122.6	
160	44.2	36.4	54.6	

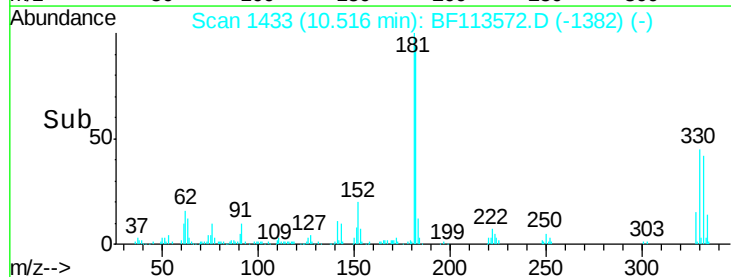
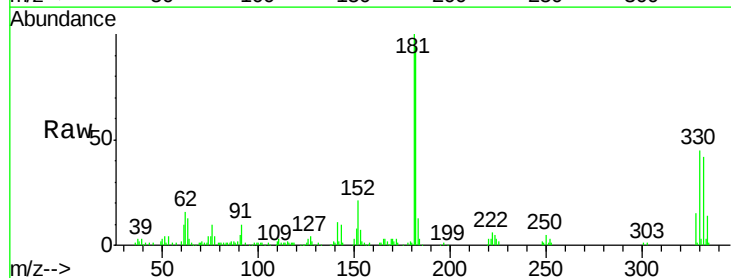
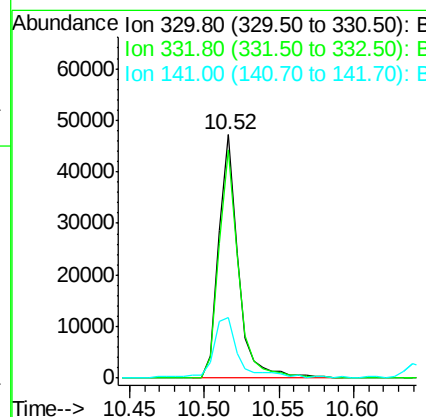
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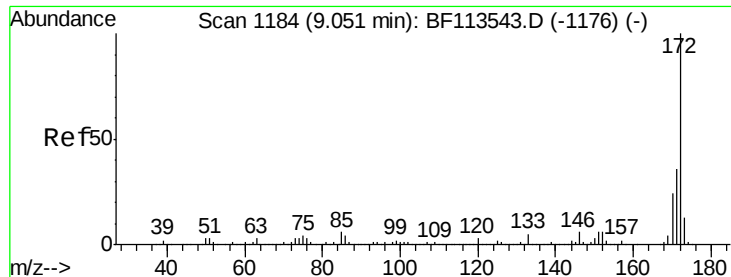
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#42
 2,4,6-Tribromophenol
 Concen: 21.483 ng
 RT: 10.52 min Scan# 1433
 Delta R.T. 0.00 min
 Lab File: BF113572.D
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Tgt Ion	Ratio	Resp	Lower	Upper
330	100	43168		
332	95.0	77.8	116.6	
141	32.5	22.7	34.1	





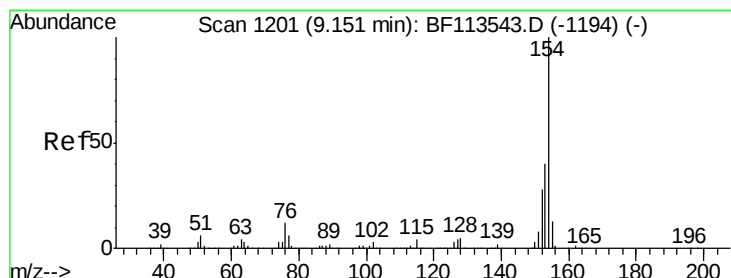
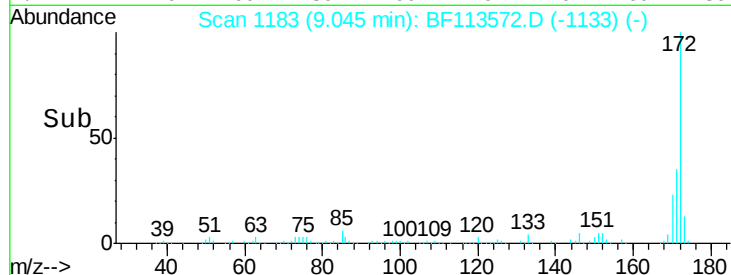
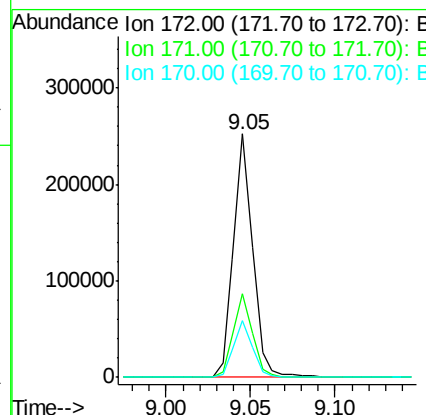
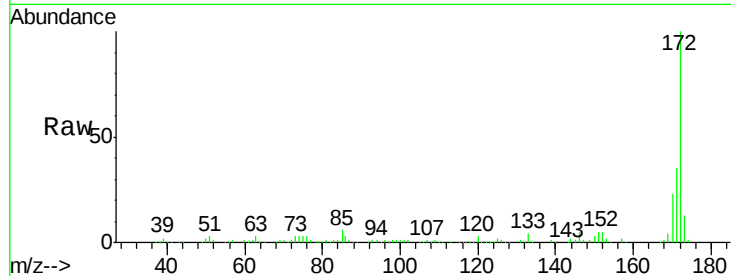
#45
 2-Fluorobiphenyl
 Concen: 19.291 ng
 RT: 9.05 min Scan# 1183
 Delta R.T. -0.01 min
 Lab File: BF113572.D
 Acq: 4 Apr 2019 5:16

Instrument :
 BNA_F
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Tgt Ion	Ratio	Resp Lower	Resp Upper
172	100		
171	34.5	29.0	43.6
170	23.1	19.5	29.3

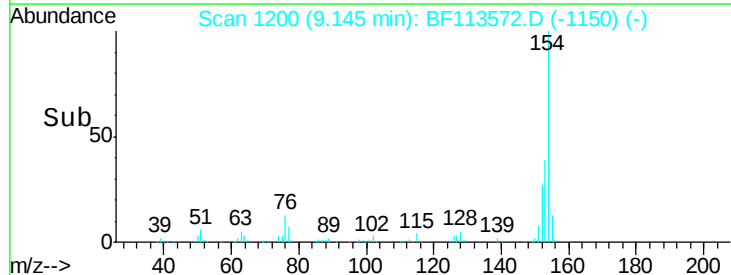
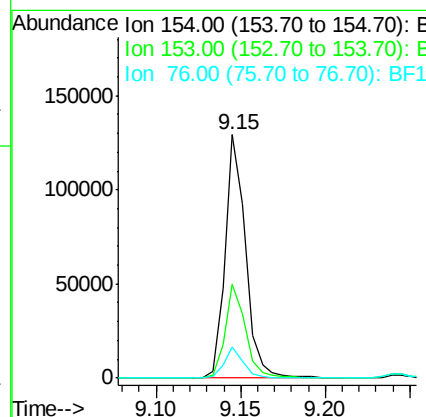
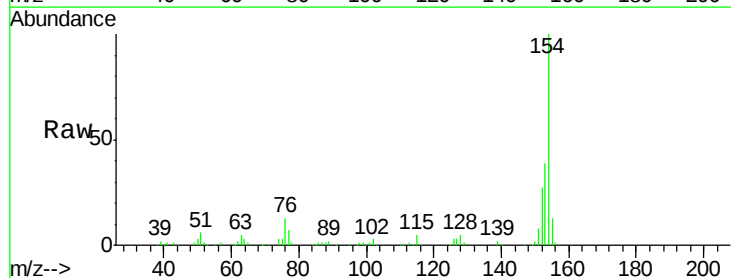
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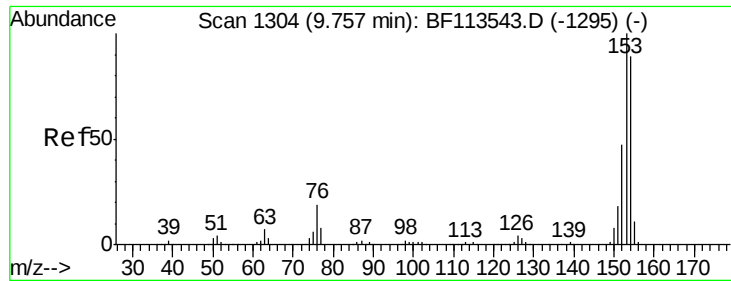
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#46
 1,1'-Biphenyl
 Concen: 7.943 ng
 RT: 9.15 min Scan# 1200
 Delta R.T. -0.01 min
 Lab File: BF113572.D
 Acq: 4 Apr 2019 5:16

Tgt Ion	Ratio	Resp Lower	Resp Upper
154	100		
153	38.6	20.8	60.8
76	12.9	0.0	31.9





#52

Acenaphthene

Concen: 52.474 ng

RT: 9.76 min Scan# 1304

Delta R.T. 0.00 min

Lab File: BF113572.D

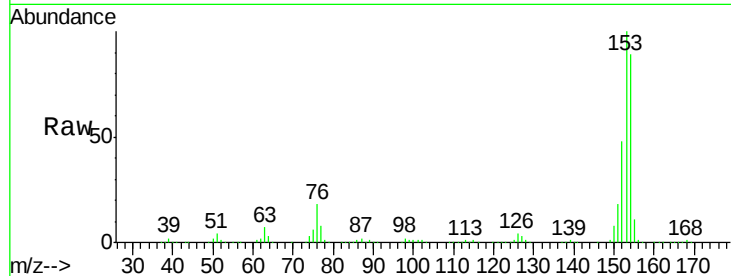
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Instrument :

BNA_F

ClientSampleId :

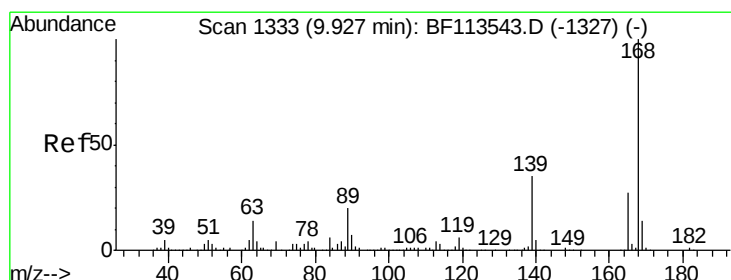
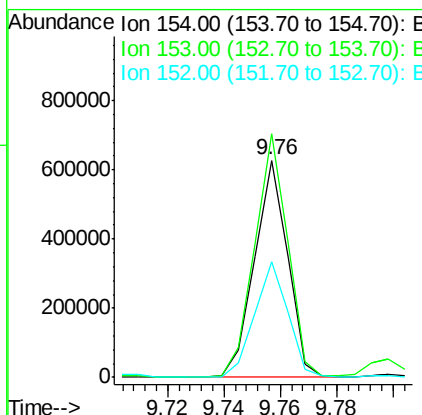
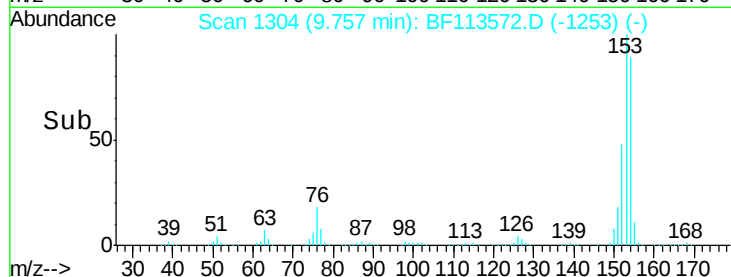
CL-02-040219-B



Tgt Ion:	154	Resp:	510477
Ion Ratio	Lower	Upper	
154	100		
153	112.2	89.5	134.3
152	53.5	43.3	64.9

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#55

Dibenzofuran

Concen: 53.133 ng

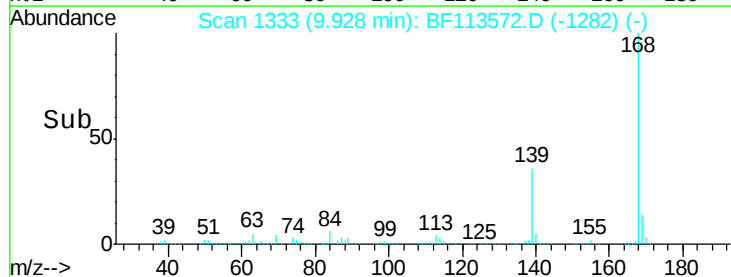
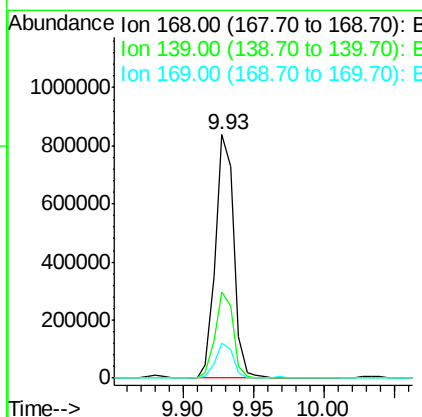
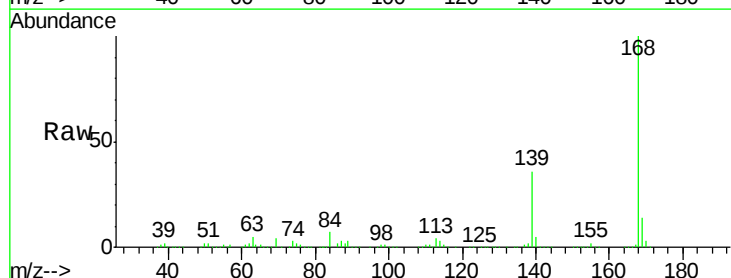
RT: 9.93 min Scan# 1333

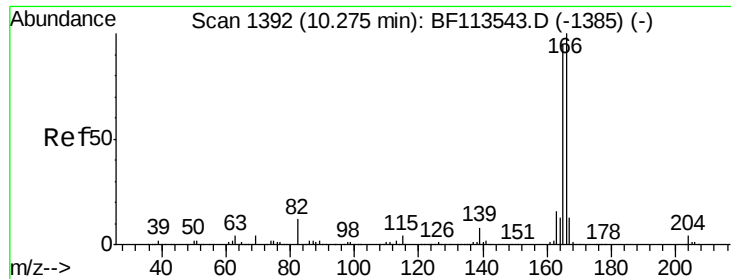
Delta R.T. 0.00 min

Lab File: BF113572.D

Acq: 4 Apr 2019 5:16

Tgt Ion:	168	Resp:	758219
Ion Ratio	Lower	Upper	
168	100		
139	35.7	29.7	44.5
169	14.1	10.7	16.1





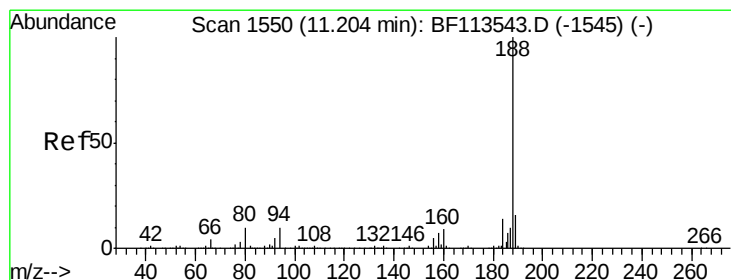
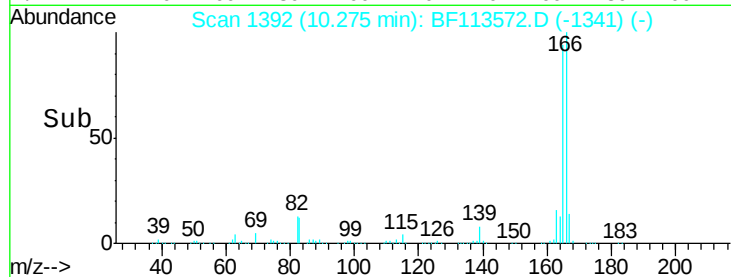
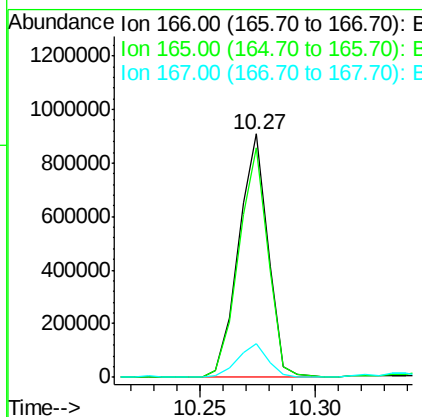
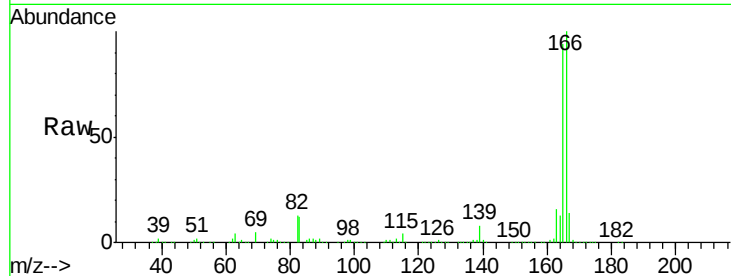
#58
 Fluorene
 Concen: 70.817 ng
 RT: 10.27 min Scan# 1392
 Delta R.T. 0.00 min
 Lab File: BF113572.D
 Acq: 4 Apr 2019 5:16

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-040219-B

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	799288		
165	94.2	76.2	114.2	
167	14.0	10.7	16.1	

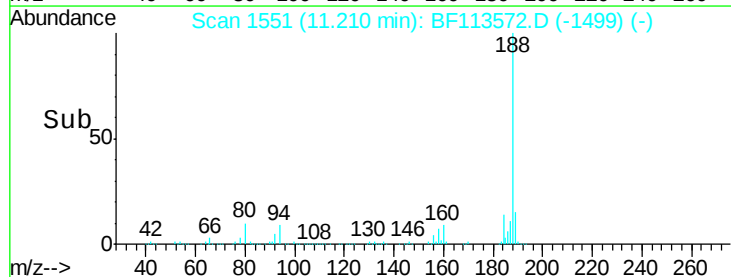
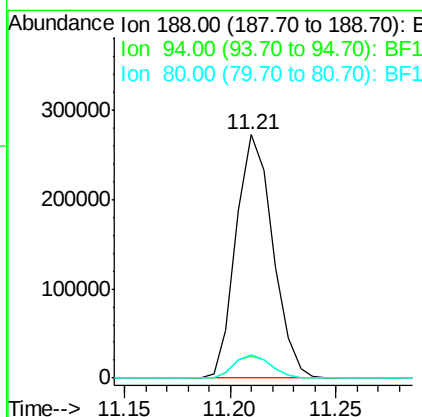
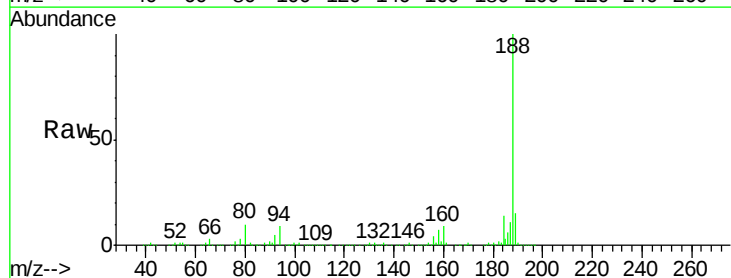
Manual Integrations
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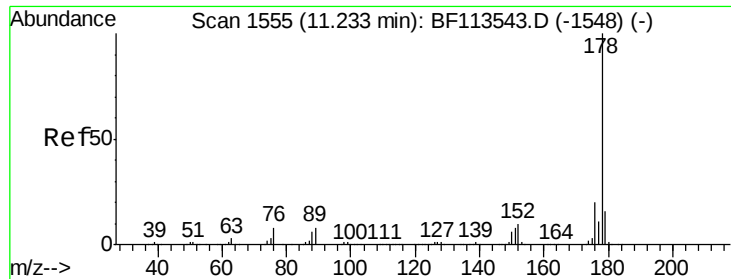
Sohil
 4/4/2019 10:58:16 AM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.21 min Scan# 1551
 Delta R.T. 0.01 min
 Lab File: BF113572.D
 Acq: 4 Apr 2019 5:16

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	330913		
94	9.3	7.0	10.6	
80	9.6	7.7	11.5	





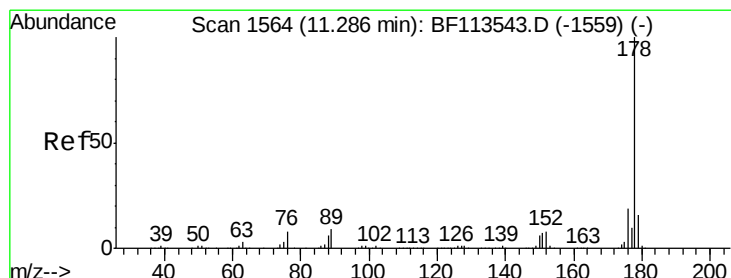
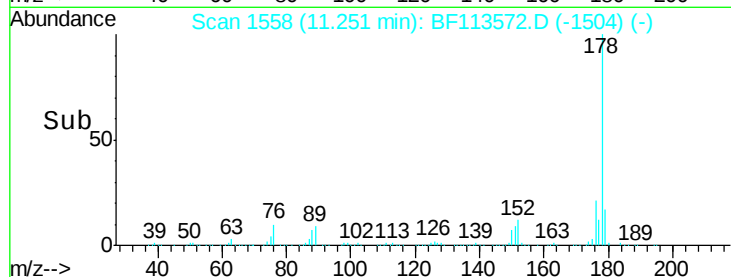
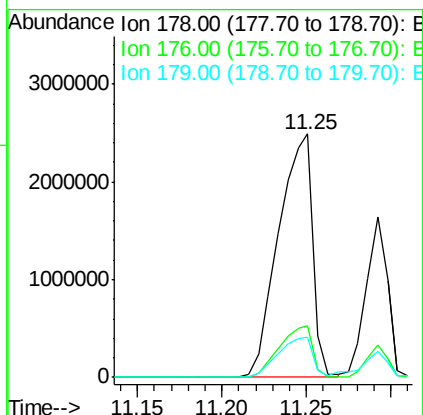
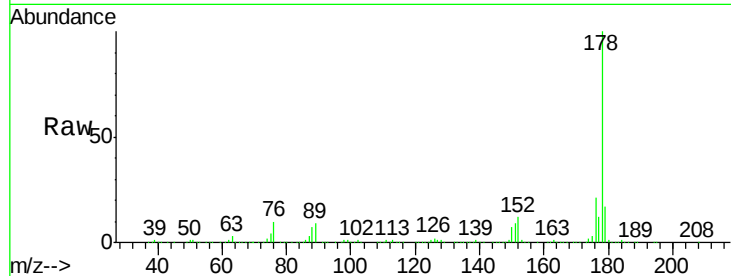
#71
Phenanthrene
Concen: 212.981 ng
RT: 11.25 min Scan# 1558
Delta R.T. 0.02 min
Lab File: BF113572.D
Acq: 4 Apr 2019 5:16

Instrument :
BNA_F
ClientSampleId :
CL-02-040219-B

Tgt Ion:178 Resp: 3502107
Ion Ratio Lower Upper
178 100
176 21.3 16.2 24.2
179 16.7 12.7 19.1

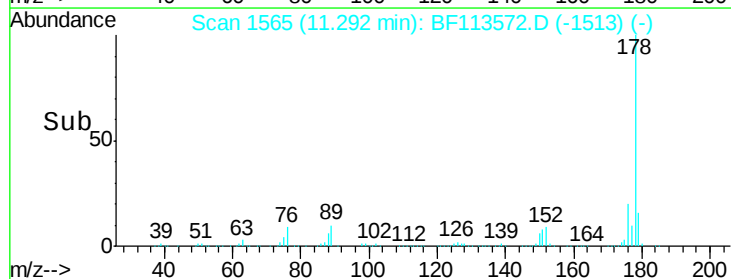
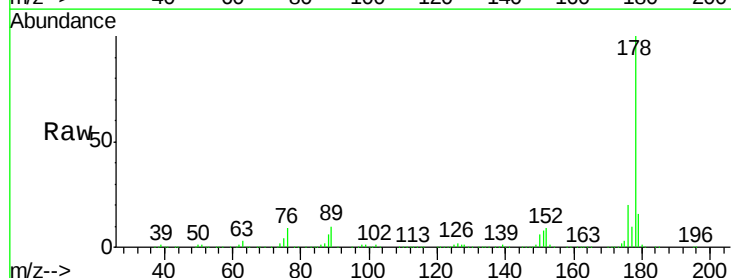
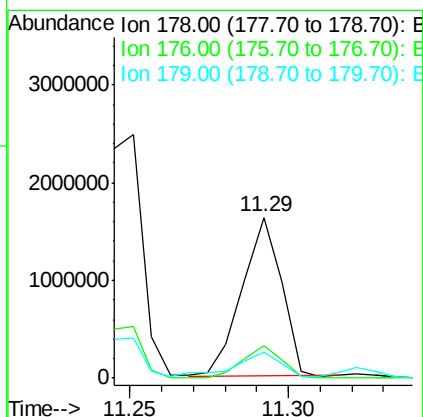
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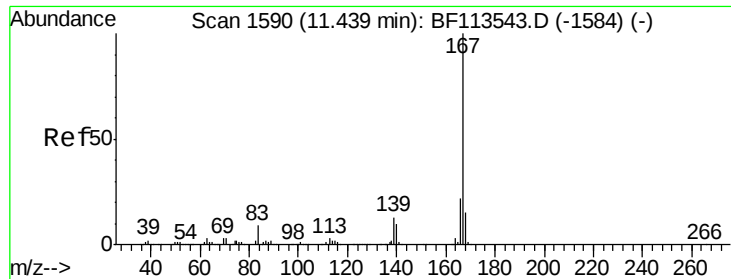
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#72
Anthracene
Concen: 84.091 ng
RT: 11.29 min Scan# 1565
Delta R.T. 0.01 min
Lab File: BF113572.D
Acq: 4 Apr 2019 5:16

Tgt Ion:178 Resp: 1406821
Ion Ratio Lower Upper
178 100
176 19.8 15.4 23.2
179 16.2 12.8 19.2





#73

Carbazole

Concen: 40.111 ng

RT: 11.45 min Scan# 1591

Delta R.T. 0.01 min

Lab File: BF113572.D

Acq: 4 Apr 2019 5:16

Instrument :

BNA_F

ClientSampleId :

CL-02-040219-B

Tgt Ion:167 Resp: 627628
Ion Ratio Lower Upper

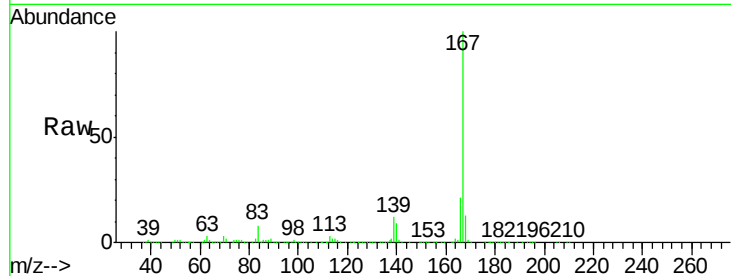
167 100

166 21.4 17.4 26.0

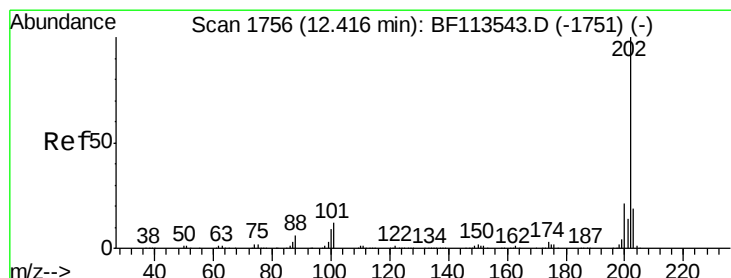
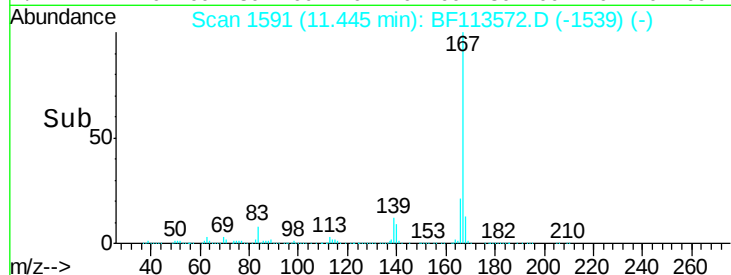
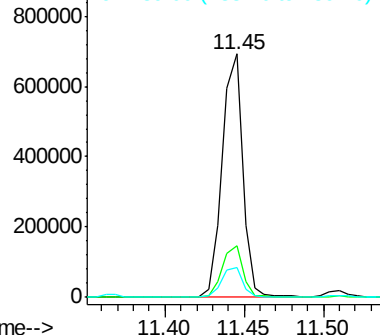
139 12.1 10.4 15.6

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Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E



#75

Fluoranthene

Concen: 222.798 ng

RT: 12.44 min Scan# 1760

Delta R.T. 0.02 min

Lab File: BF113572.D

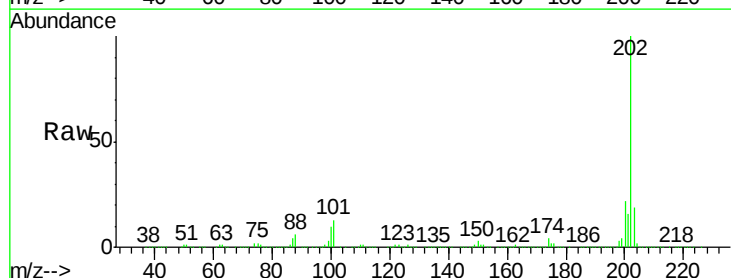
Acq: 4 Apr 2019 5:16

Tgt Ion:202 Resp: 3925746
Ion Ratio Lower Upper

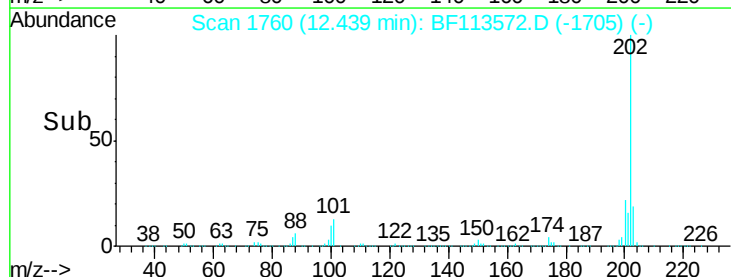
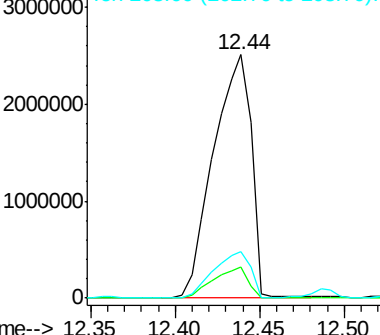
202 100

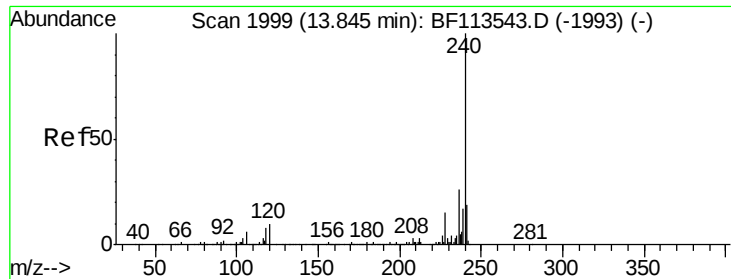
101 12.6 0.0 31.4

203 19.2 0.0 38.0



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E





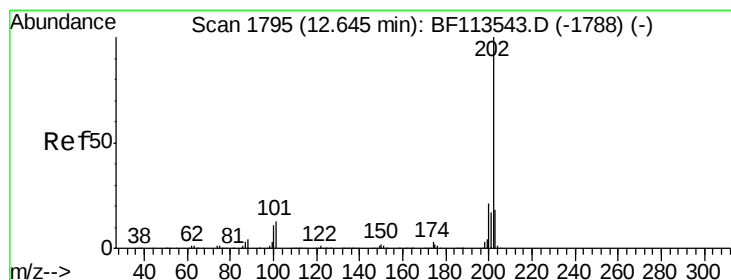
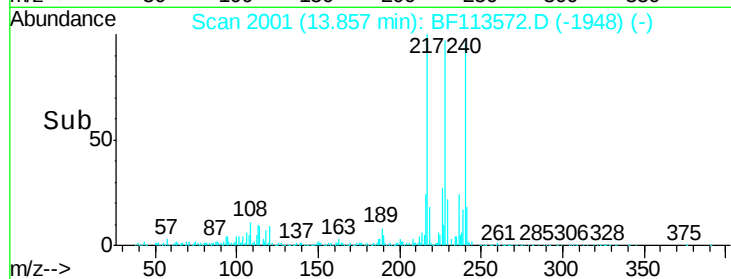
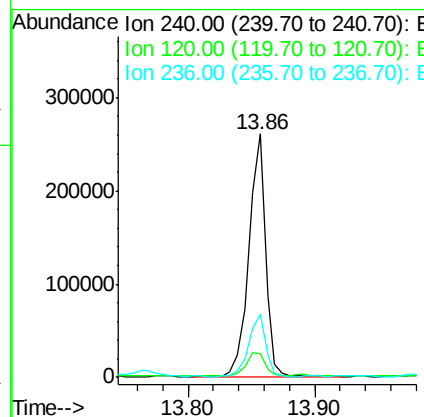
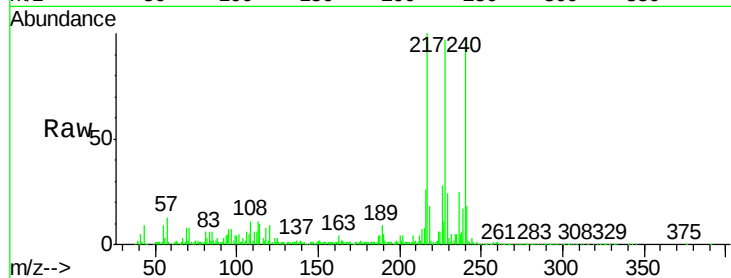
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.86 min Scan# 2001
Delta R.T. 0.01 min
Lab File: BF113572.D
Acq: 4 Apr 2019 5:16

Instrument :
BNA_F
ClientSampleId :
CL-02-040219-B

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	237175		
120	9.6	8.8	13.2	
236	25.8	20.9	31.3	

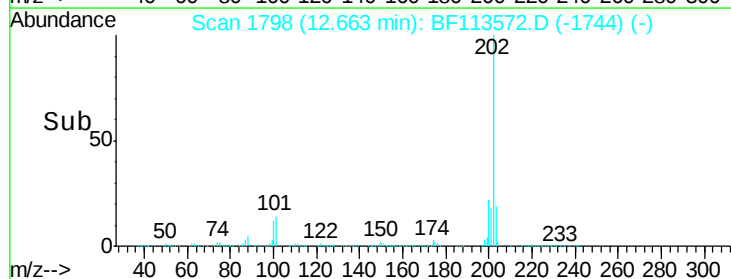
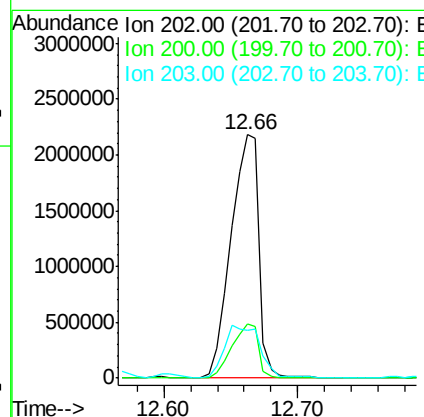
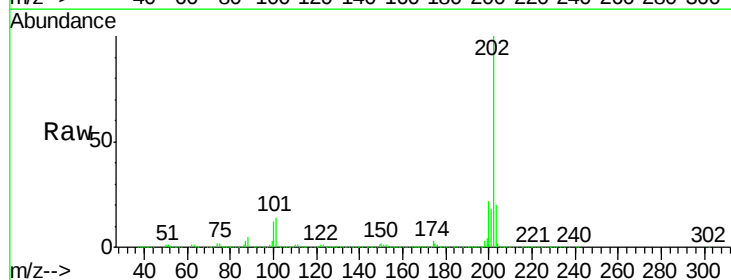
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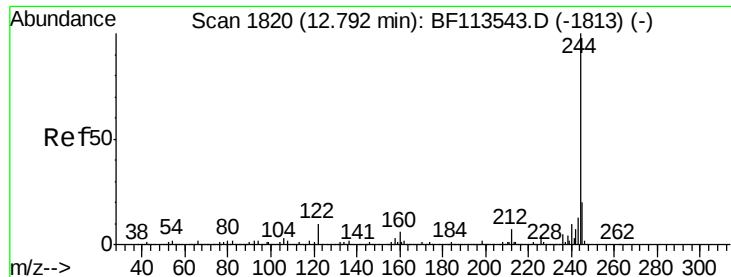
Sohil
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#78
Pyrene
Concen: 176.538 ng
RT: 12.66 min Scan# 1798
Delta R.T. 0.02 min
Lab File: BF113572.D
Acq: 4 Apr 2019 5:16

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	3185880		
200	22.1	16.8	25.2	
203	19.5	14.4	21.6	





#79

Terphenyl-d14

Concen: 19.541 ng

RT: 12.79 min Scan# 1820

Delta R.T. 0.00 min

Lab File: BF113572.D

Acq: 4 Apr 2019 5:16

Instrument :

BNA_F

ClientSampleId :

CL-02-040219-B

Tgt Ion: 244 Resp: 227638

Ion Ratio Lower Upper

244 100

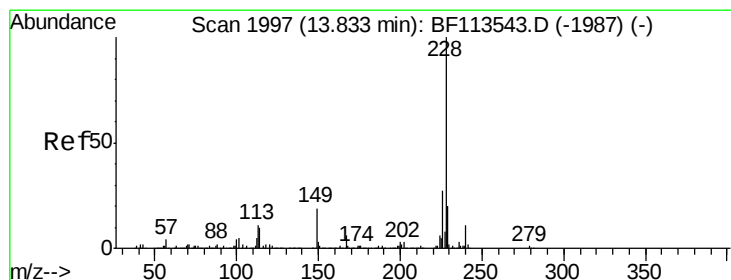
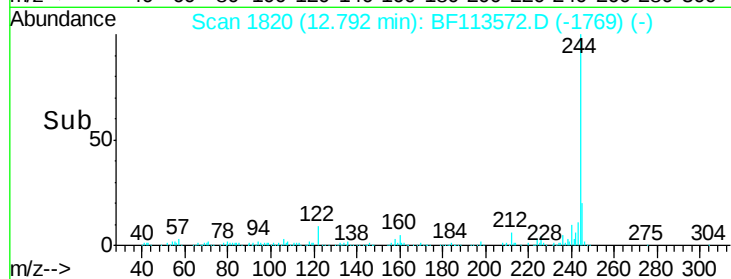
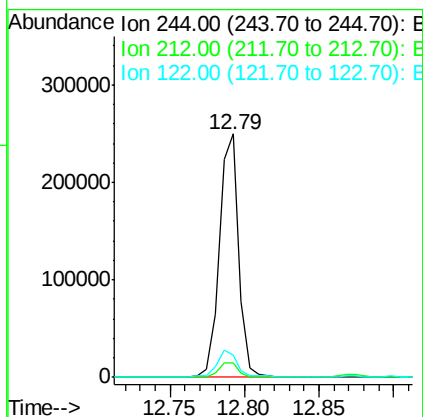
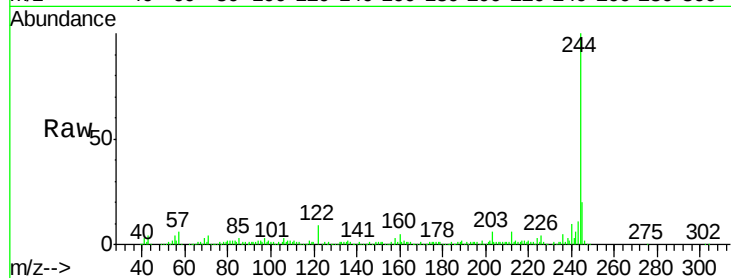
212 6.1 5.5 8.3

122 9.2 8.6 13.0

Manual Integrations
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#81

Benzo(a)anthracene

Concen: 123.561 ng

RT: 13.84 min Scan# 1999

Delta R.T. 0.01 min

Lab File: BF113572.D

Acq: 4 Apr 2019 5:16

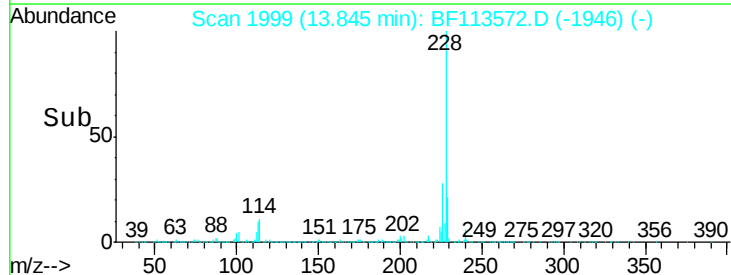
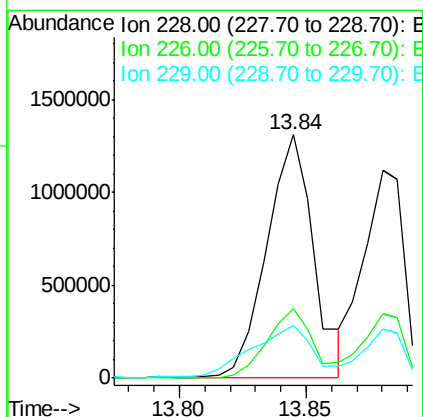
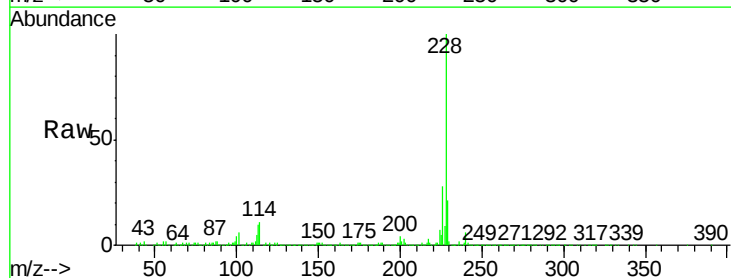
Tgt Ion: 228 Resp: 1690509

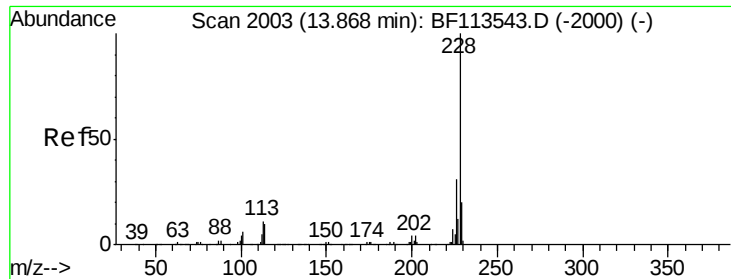
Ion Ratio Lower Upper

228 100

226 28.5 21.8 32.8

229 21.5 16.2 24.4





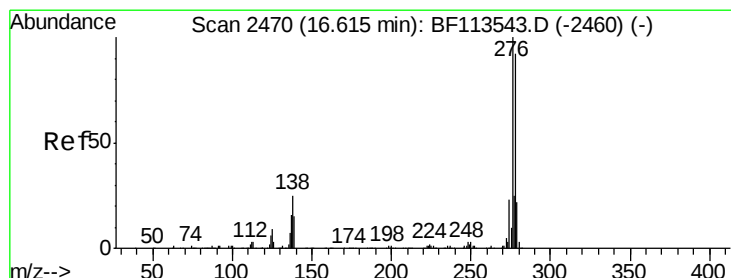
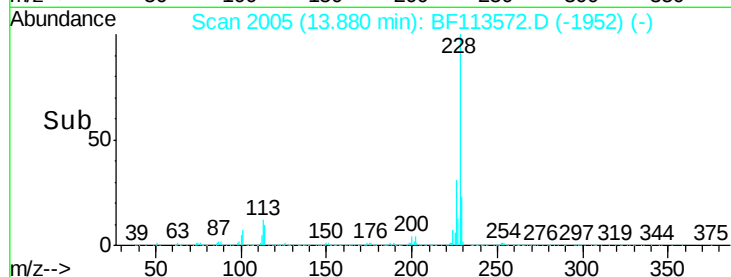
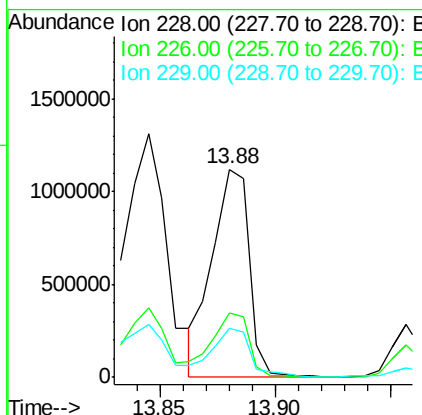
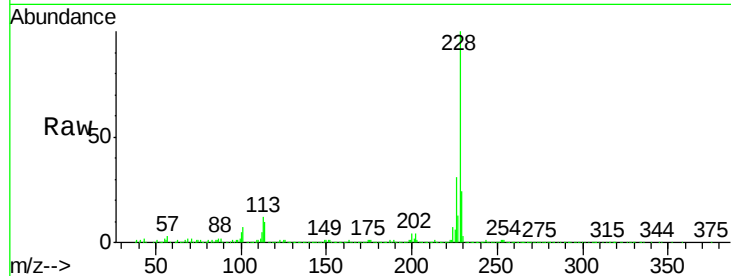
#83
Chrysene
Concen: 89.626 ng
RT: 13.88 min Scan# 2005
Delta R.T. 0.01 min
Lab File: BF113572.D
Acq: 4 Apr 2019 5:16

Instrument :
BNA_F
ClientSampleId :
CL-02-040219-B

Tgt Ion:228 Resp: 1243044
Ion Ratio Lower Upper
228 100
226 30.9 24.3 36.5
229 23.5 16.3 24.5

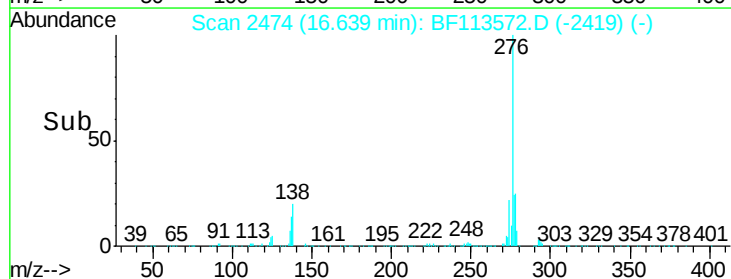
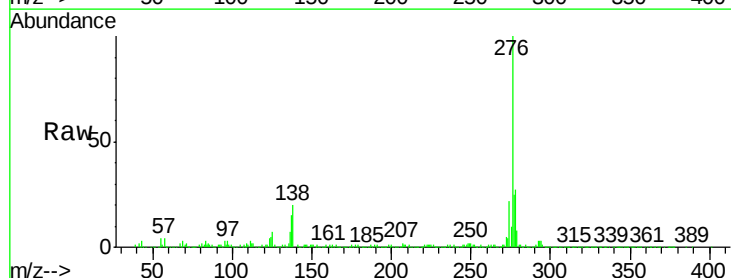
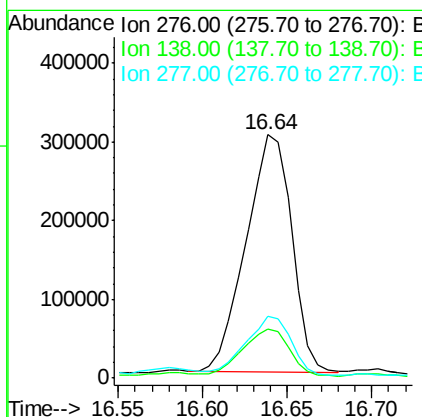
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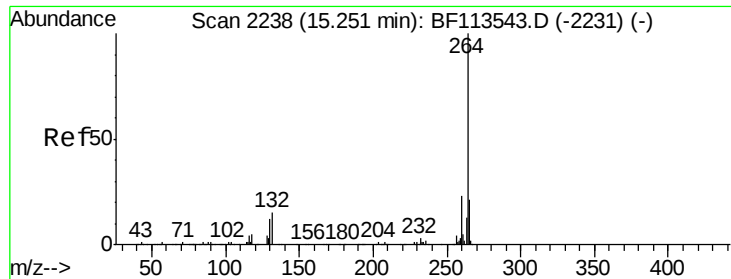
Sohil
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#86
Indeno(1,2,3-cd)pyrene
Concen: 44.399 ng
RT: 16.64 min Scan# 2474
Delta R.T. 0.02 min
Lab File: BF113572.D
Acq: 4 Apr 2019 5:16

Tgt Ion:276 Resp: 568545
Ion Ratio Lower Upper
276 100
138 20.3 18.1 27.1
277 24.9 20.2 30.4





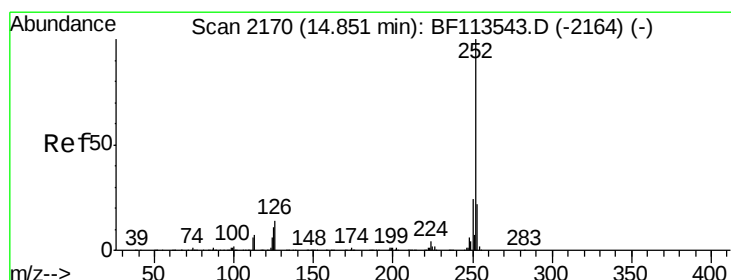
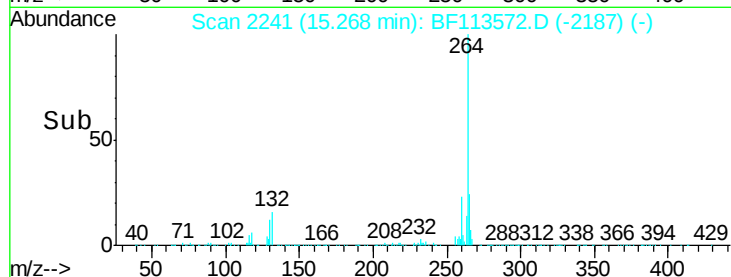
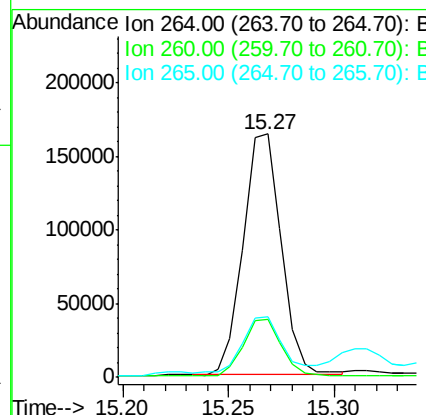
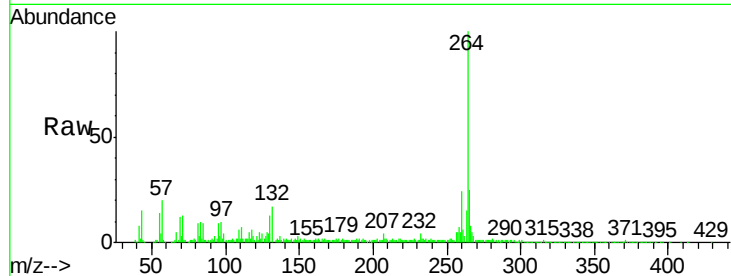
#87
Perylene-d12
Concen: 20.000 ng
RT: 15.27 min Scan# 2241
Delta R.T. 0.02 min
Lab File: BF113572.D
Acq: 4 Apr 2019 5:16

Instrument :
BNA_F
ClientSampleId :
CL-02-040219-B

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.1	28.7
265	25.0	17.1	25.7

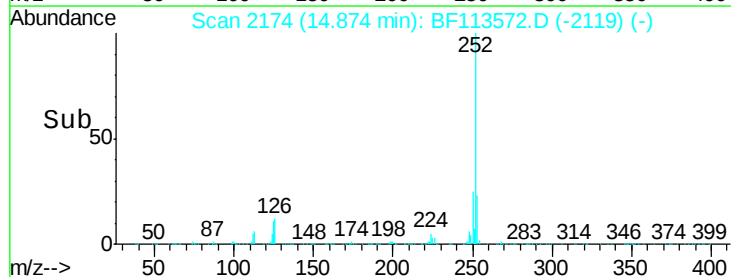
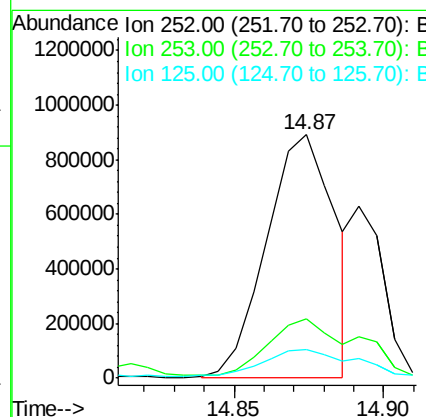
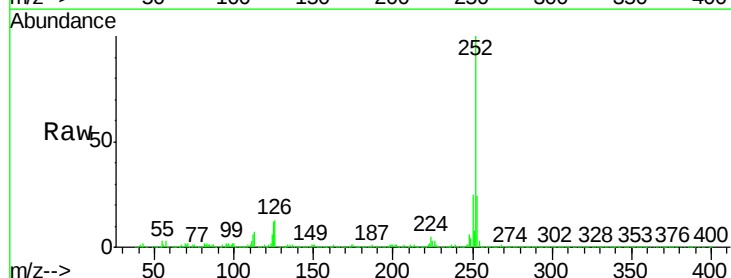
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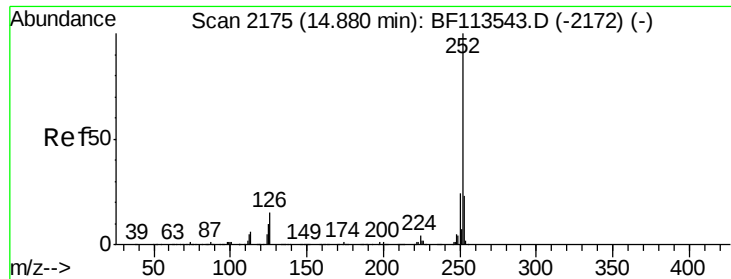
Sohil
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#88
Benzo(b)fluoranthene
Concen: 112.028 ng m
RT: 14.87 min Scan# 2174
Delta R.T. 0.02 min
Lab File: BF113572.D
Acq: 4 Apr 2019 5:16

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	18.0	27.0
125	11.7	7.6	11.4#





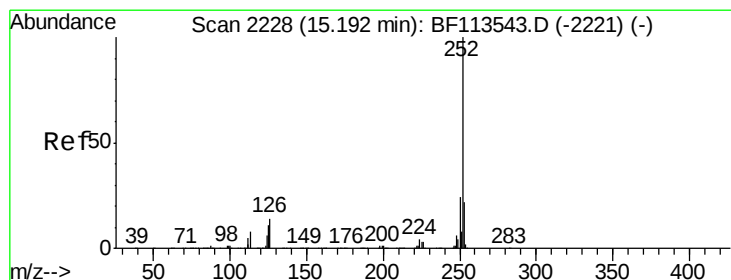
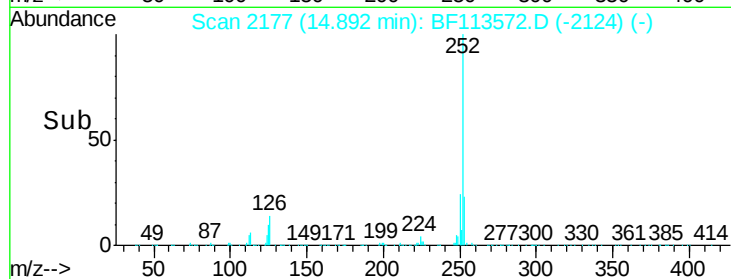
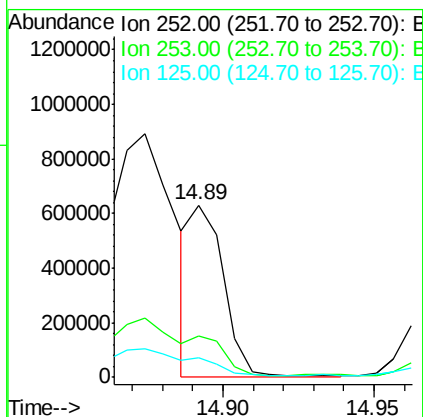
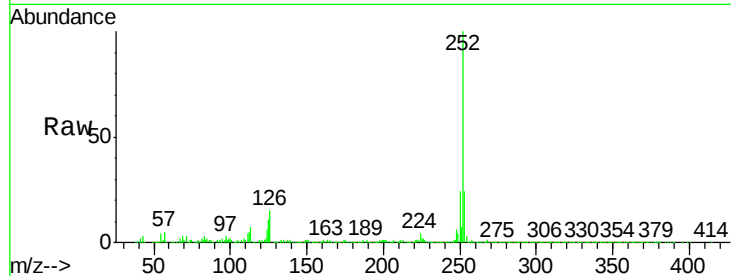
#89
Benzo(k)fluoranthene
Concen: 42.407 ng m
RT: 14.89 min Scan# 2177
Delta R.T. 0.01 min
Lab File: BF113572.D
Acq: 4 Apr 2019 5:16

Instrument :
BNA_F
ClientSampleId :
CL-02-040219-B

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.7	26.5
125	11.2	7.3	10.9

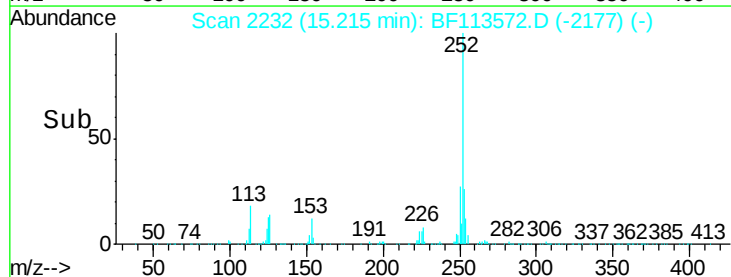
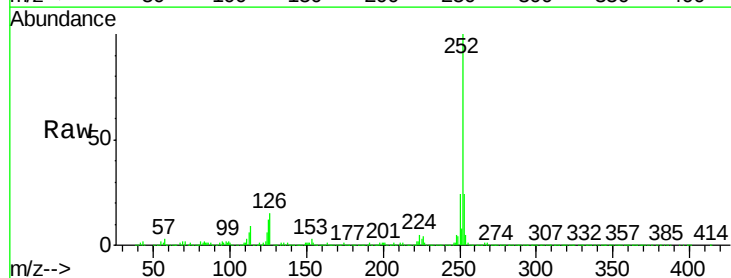
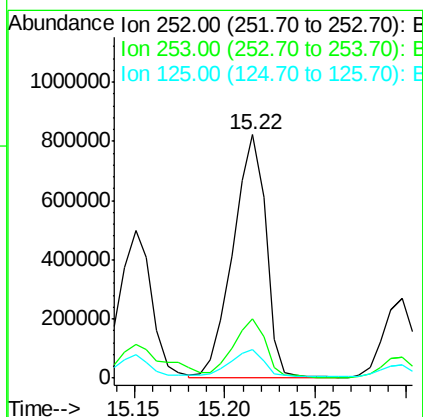
Manual Integrations
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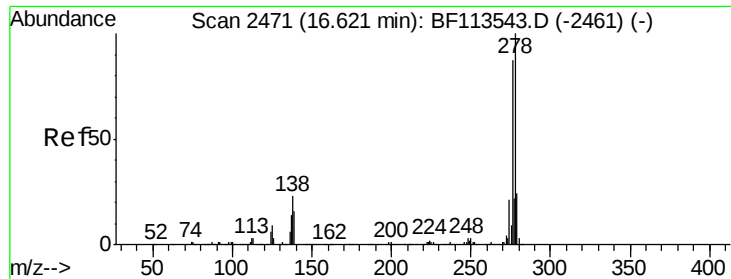
Sohil
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#90
Benzo(a)pyrene
Concen: 92.281 ng
RT: 15.22 min Scan# 2232
Delta R.T. 0.02 min
Lab File: BF113572.D
Acq: 4 Apr 2019 5:16

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.9	26.9
125	11.7	8.8	13.2





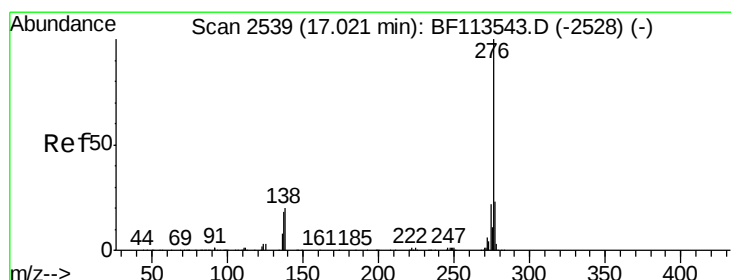
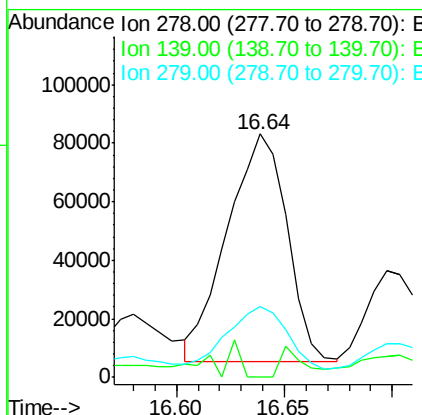
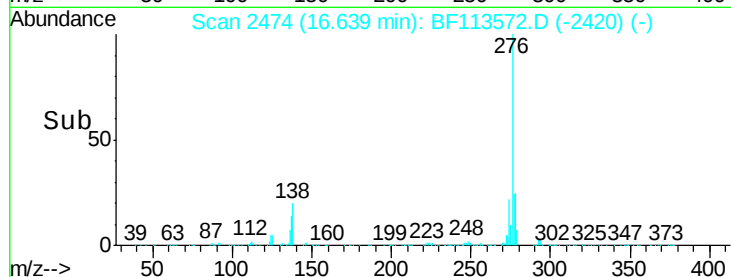
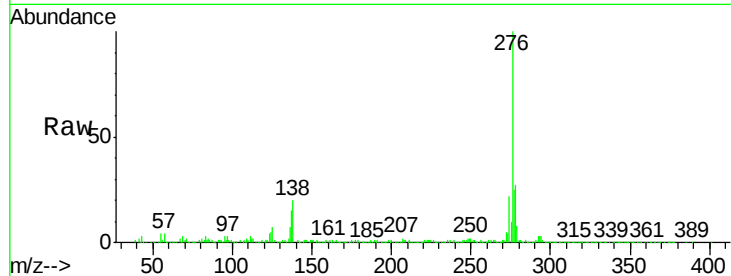
#91
Dibenzo(a,h)anthracene
Concen: 14.216 ng m
RT: 16.64 min Scan# 2474
Delta R.T. 0.02 min
Lab File: BF113572.D
Acq: 4 Apr 2019 5:16

Instrument :
BNA_F
ClientSampleId :
CL-02-040219-B

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.0	18.0#
279	28.9	19.0	28.6#

Manual Integrations
APPROVED

Sohil
4/4/2019 10:58:16 AM



#92
Benzo(g,h,i)perylene
Concen: 48.181 ng
RT: 17.05 min Scan# 2544
Delta R.T. 0.03 min
Lab File: BF113572.D
Acq: 4 Apr 2019 5:16

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.2	18.8	28.2
138	21.2	15.6	23.4

