

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032219\
 Data File : BF113243.D
 Acq On : 22 Mar 2019 19:17
 Operator : JU/SJ
 Sample : K2050-05
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CS-1

Manual Integrations
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Quant Time: Mar 23 00:43:13 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 13 03:42:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	154197	20.00	ng	-0.02
21) Naphthalene-d8	8.00	136	611065	20.00	ng	-0.02
39) Acenaphthene-d10	9.75	164	283127	20.00	ng	-0.02
64) Phenanthrene-d10	11.23	188	450045	20.00	ng	-0.02
76) Chrysene-d12	13.86	240	328409	20.00	ng	0.00
87) Perylene-d12	15.27	264	376489	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.34	112	1056248	106.55	ng	0.00
7) Phenol-d6	6.37	99	1406423	112.95	ng	0.00
23) Nitrobenzene-d5	7.28	82	906262	88.74	ng	-0.02
42) 2,4,6-Tribromophenol	10.54	330	362644	120.65	ng	-0.01
45) 2-Fluorobiphenyl	9.07	172	1256704	70.25	ng	-0.02
79) Terphenyl-d14	12.81	244	910932	53.77	ng	-0.01
Target Compounds						Qvalue
49) Acenaphthylene	9.61	152	98229	3.209	ng	97
50) Dimethylphthalate	9.46	163	179268m	8.587	ng	
71) Phenanthrene	11.25	178	126358	5.643	ng	97
72) Anthracene	11.30	178	122246	5.215	ng	95
73) Carbazole	11.46	167	105550	4.616	ng	97
75) Fluoranthene	12.44	202	812554	33.871	ng	96
78) Pyrene	12.67	202	875655	31.628	ng	99
81) Benzo(a)anthracene	13.85	228	404123	17.755	ng	93
83) Chrysene	13.89	228	686636	30.798	ng	97
86) Indeno(1,2,3-cd)pyrene	16.64	276	376478	19.807	ng	# 90
88) Benzo(b)fluoranthene	14.88	252	1072546m	44.043	ng	
89) Benzo(k)fluoranthene	14.90	252	389827m	17.673	ng	
90) Benzo(a)pyrene	15.22	252	449087	20.849	ng	96
91) Dibenzo(a,h)anthracene	16.64	278	98570m	5.363	ng	
92) Benzo(g,h,i)perylene	17.05	276	314080	17.017	ng	# 94

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

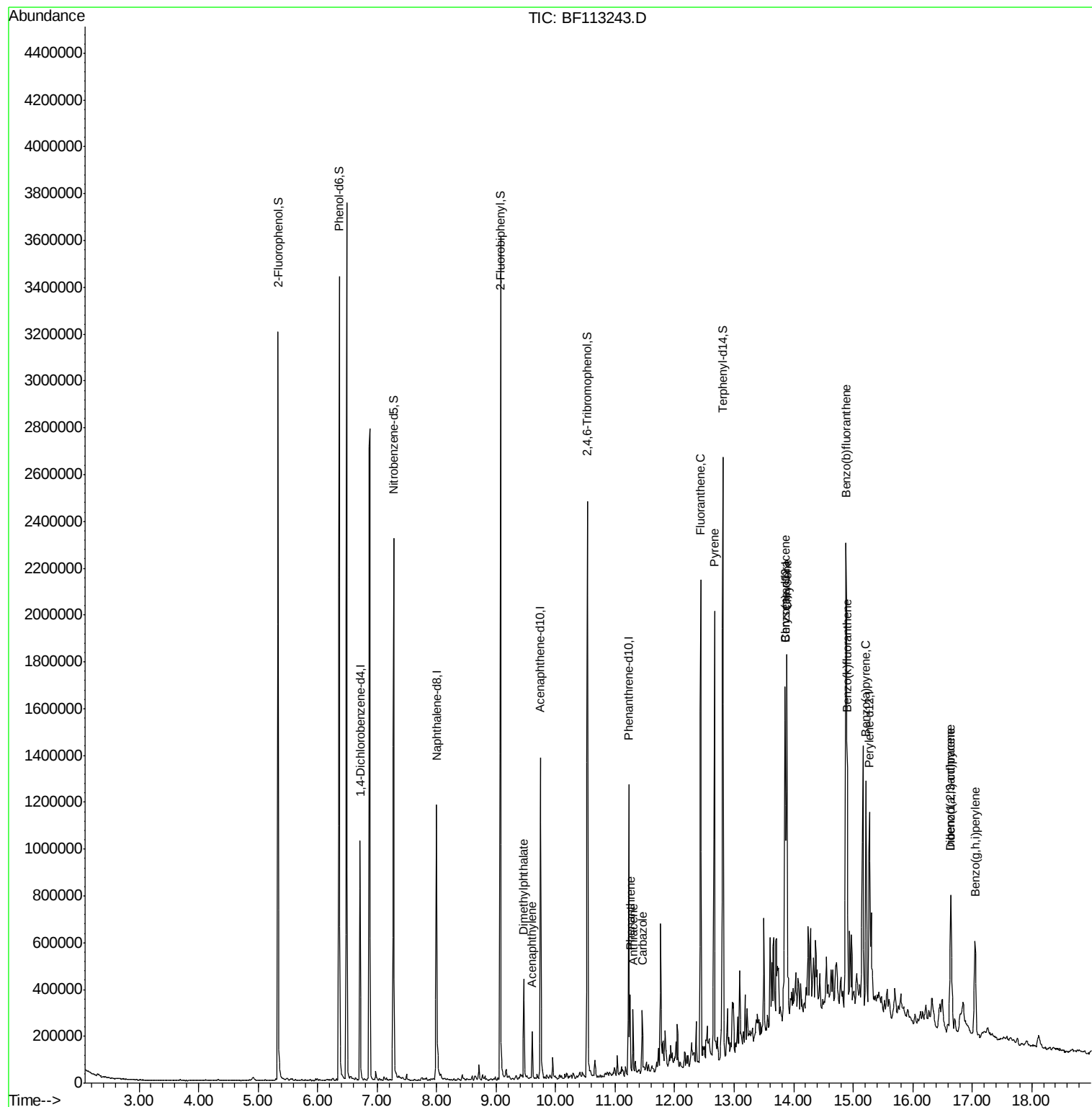
Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032219\
Data File : BF113243.D
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ALS Vial : 16 Sample Multiplier: 1

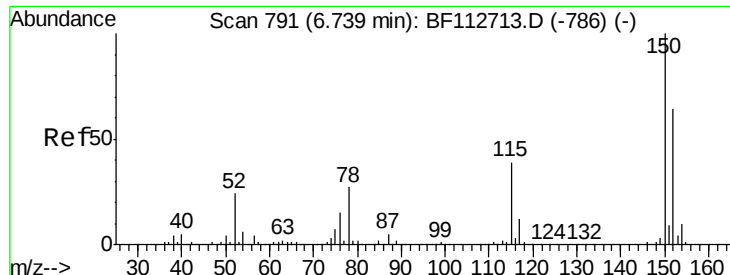
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#1

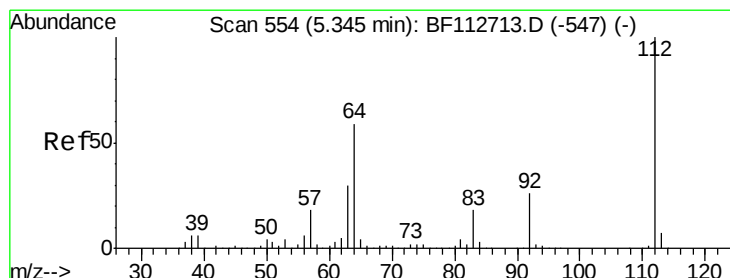
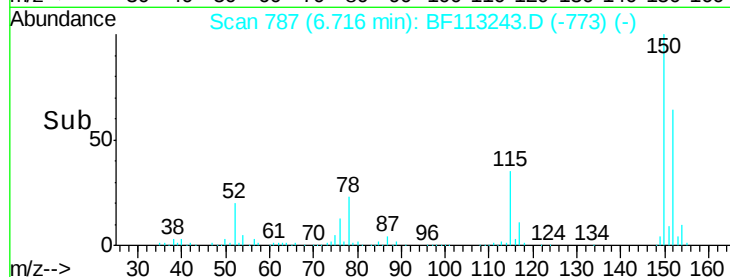
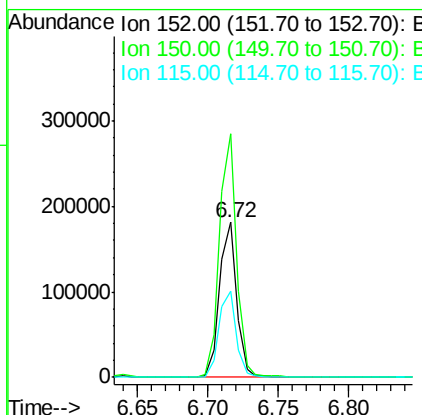
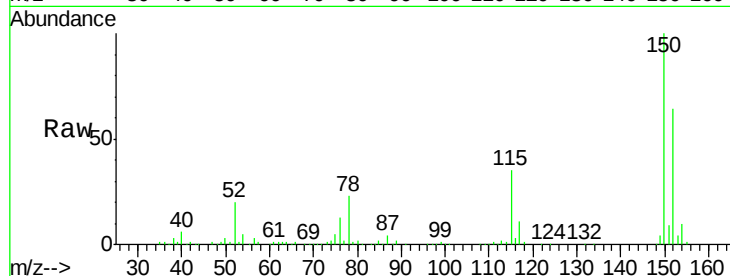
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 787
Delta R.T. -0.02 min
Lab File: BF113243.D
Acq: 22 Mar 2019 19:17

Instrument :
BNA_F
ClientSampleId :
CS-1

Tgt Ion	Ratio	Lower	Upper
152	100		
150	157.1	124.2	186.2
115	55.5	48.2	72.4

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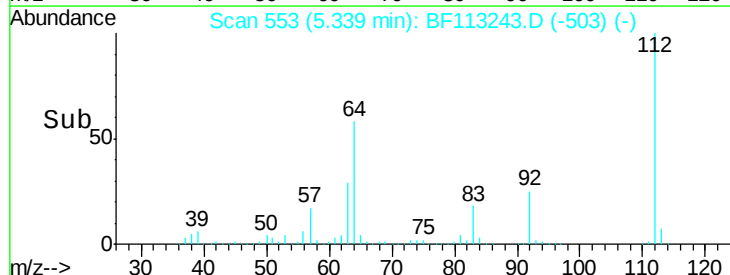
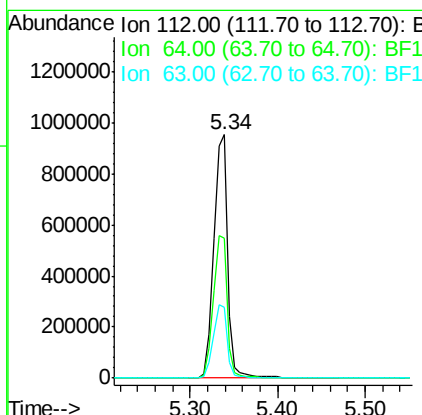
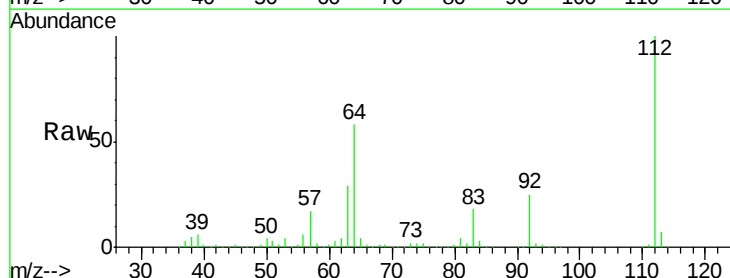
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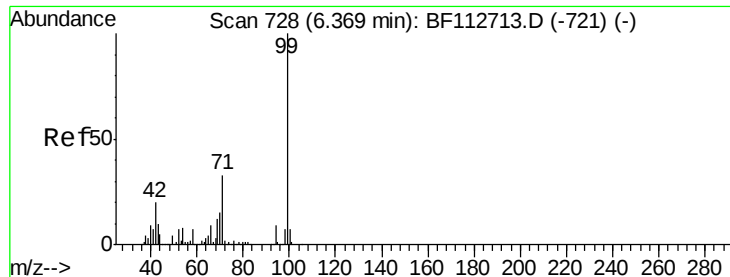


#5

2-Fluorophenol
Concen: 106.555 ng
RT: 5.34 min Scan# 553
Delta R.T. -0.01 min
Lab File: BF113243.D
Acq: 22 Mar 2019 19:17

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.6	47.6	71.4
63	29.3	24.4	36.6





#7

Phenol-d6

Concen: 112.947 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF113243.D

Acq: 22 Mar 2019 19:17

Instrument :

BNA_F

ClientSampled :

CS-1

Tgt Ion: 99 Resp: 1406423

Ion Ratio Lower Upper

99 100

42 18.1 16.3 24.5

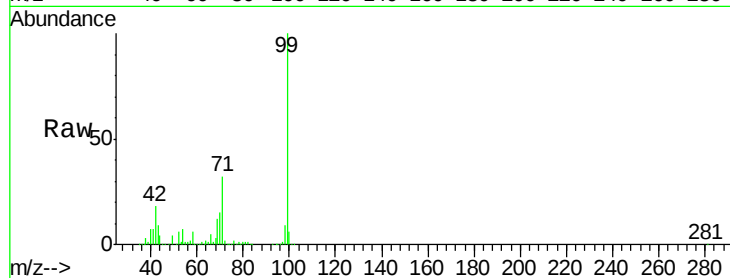
71 31.8 26.2 39.4

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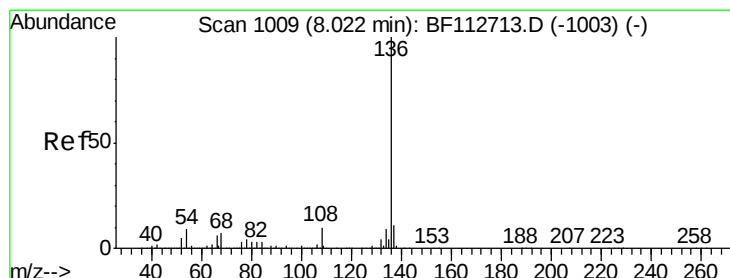
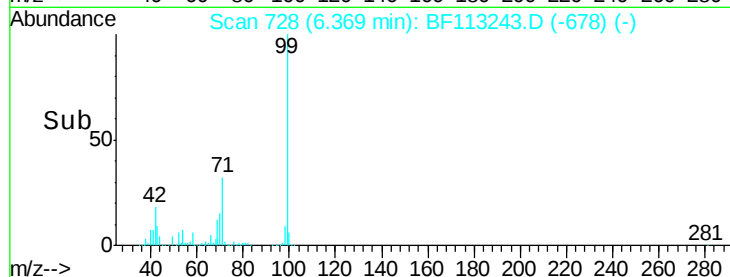
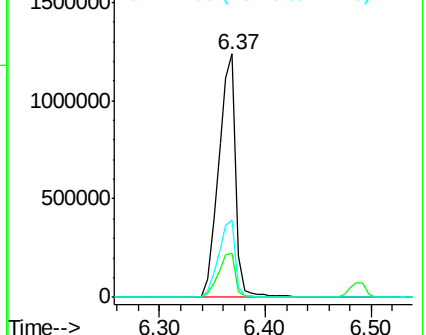
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Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.00 min Scan# 1005

Delta R.T. -0.02 min

Lab File: BF113243.D

Acq: 22 Mar 2019 19:17

Tgt Ion: 136 Resp: 611065

Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 7.5 7.3 10.9

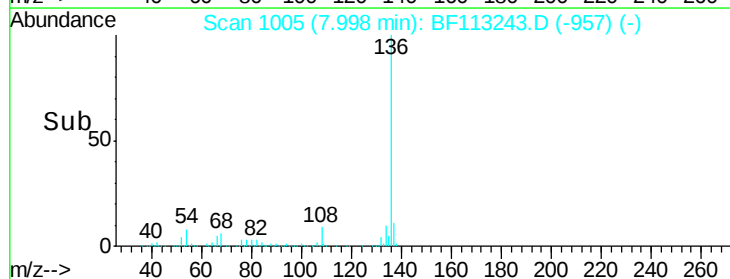
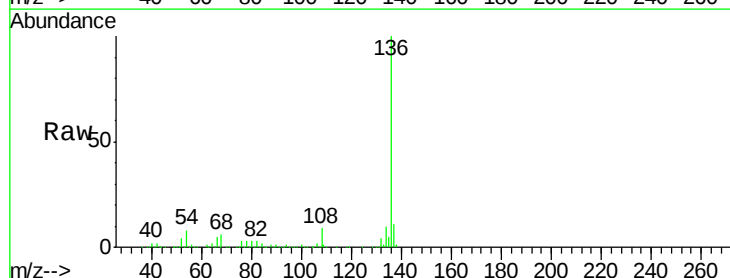
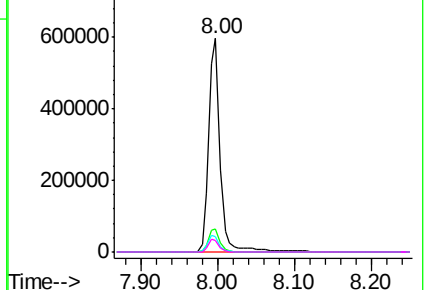
68 5.6 5.4 8.2

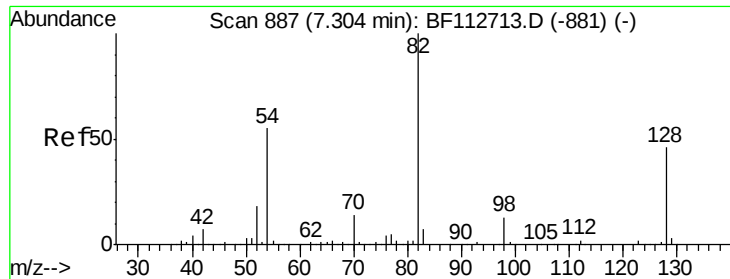
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





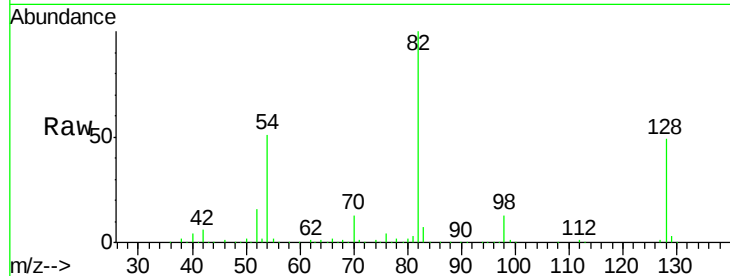
#23
 Nitrobenzene-d5
 Concen: 88.745 ng
 RT: 7.28 min Scan# 883
 Delta R.T. -0.02 min
 Lab File: BF113243.D
 Acq: 22 Mar 2019 19:17

Instrument :
 BNA_F
 ClientSampled :
 CS-1

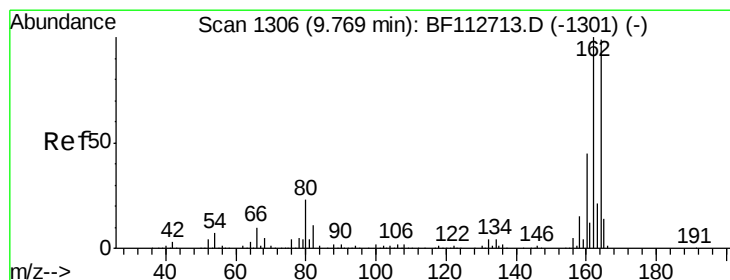
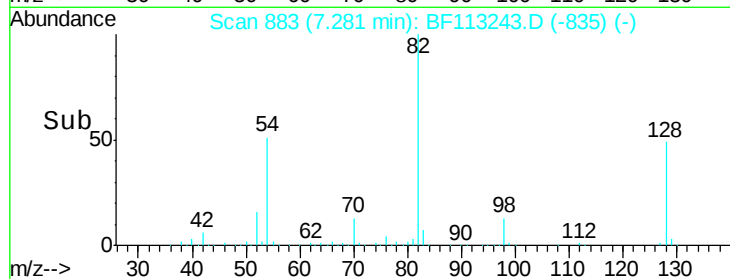
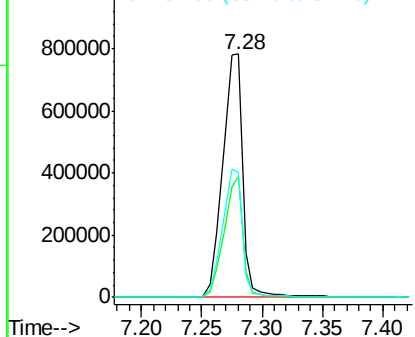
Tgt Ion	Ratio	Resp	Lower	Upper
82	100	906262		
128	49.4	36.3	54.5	
54	51.2	43.7	65.5	

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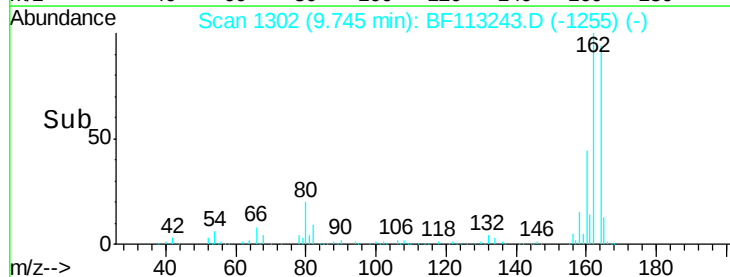
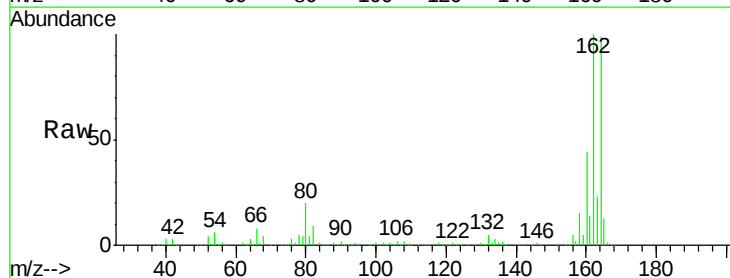
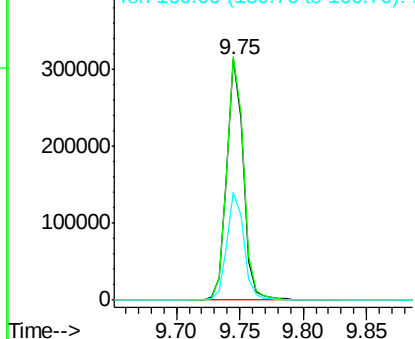
Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): B
 Ion 54.00 (53.70 to 54.70): BF1

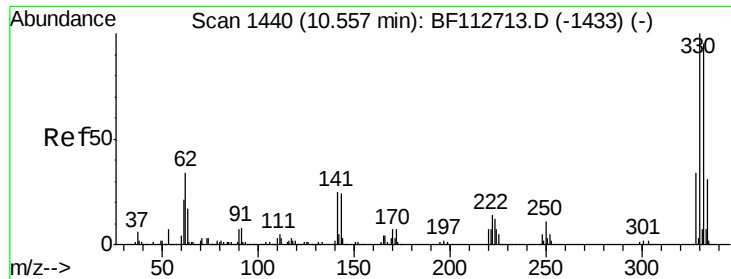


#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.75 min Scan# 1302
 Delta R.T. -0.02 min
 Lab File: BF113243.D
 Acq: 22 Mar 2019 19:17

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	283127		
162	101.1	80.6	120.8	
160	44.6	36.0	54.0	

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





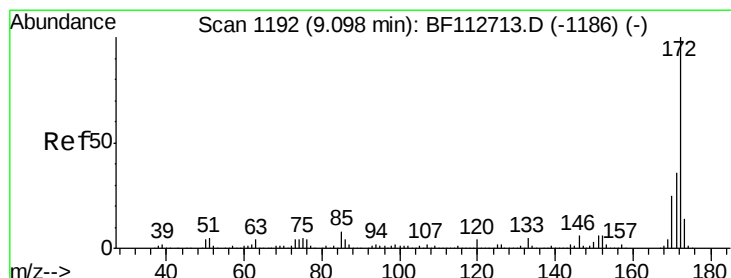
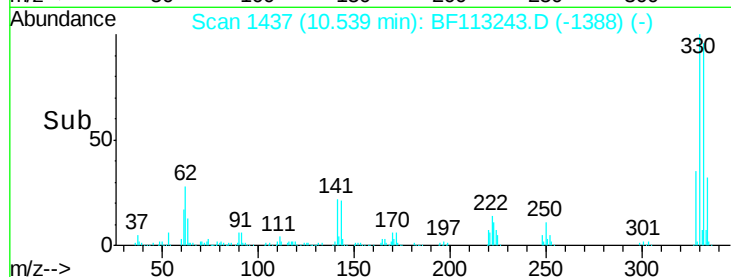
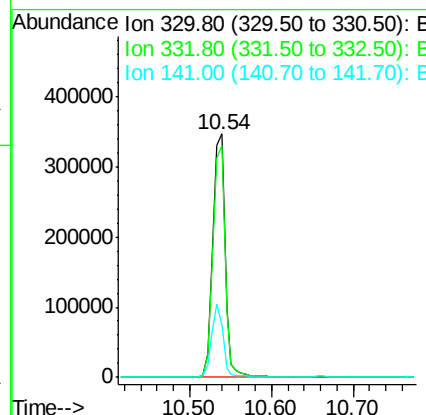
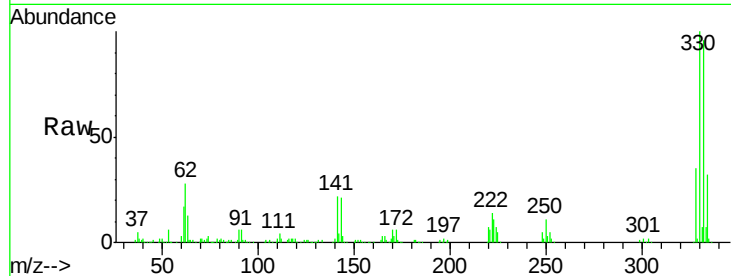
#42
 2,4,6-Tribromophenol
 Concen: 120.650 ng
 RT: 10.54 min Scan# 1437
 Delta R.T. -0.01 min
 Lab File: BF113243.D
 Acq: 22 Mar 2019 19:17

Instrument :
 BNA_F
 ClientSampleId :
 CS-1

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.3	76.2	114.4
141	27.7	27.0	40.6

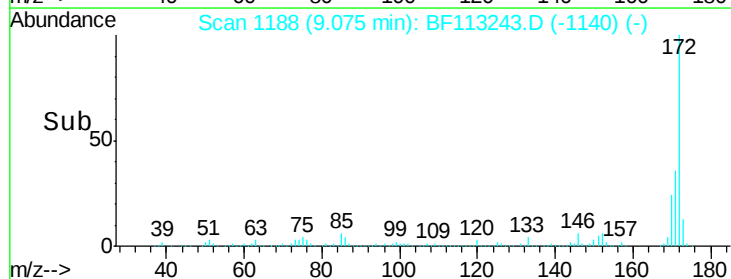
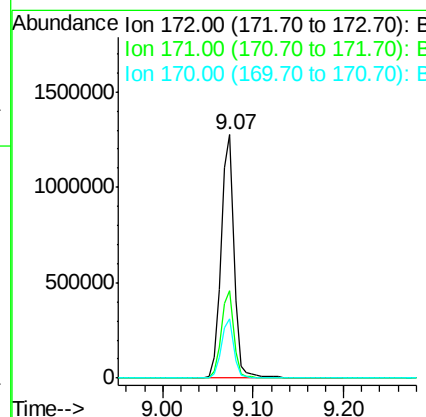
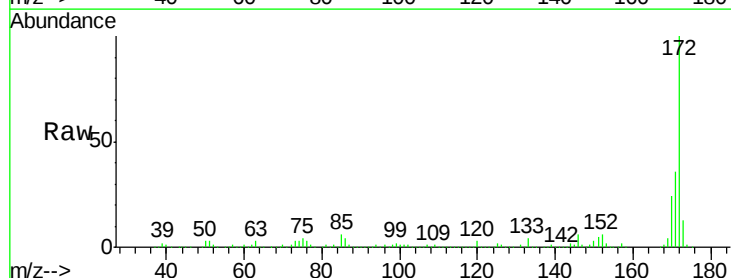
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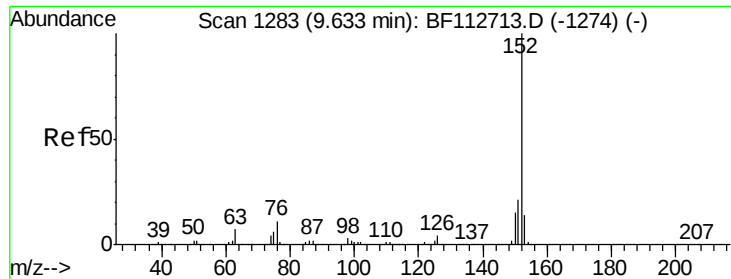
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#45
 2-Fluorobiphenyl
 Concen: 70.252 ng
 RT: 9.07 min Scan# 1188
 Delta R.T. -0.02 min
 Lab File: BF113243.D
 Acq: 22 Mar 2019 19:17

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	24.2	20.0	30.0





#49

Acenaphthylene

Concen: 3.209 ng

RT: 9.61 min Scan# 1279

Delta R.T. -0.02 min

Lab File: BF113243.D

Acq: 22 Mar 2019 19:17

Instrument :

BNA_F

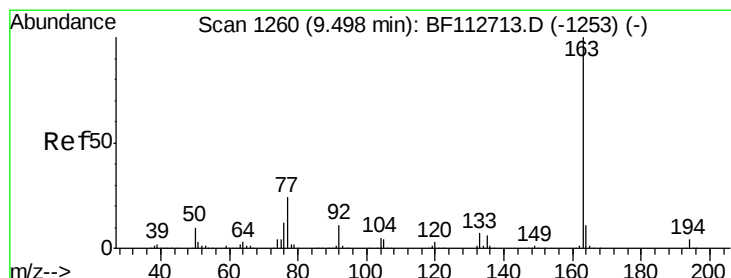
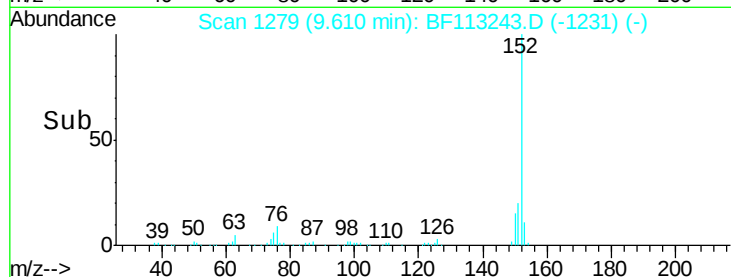
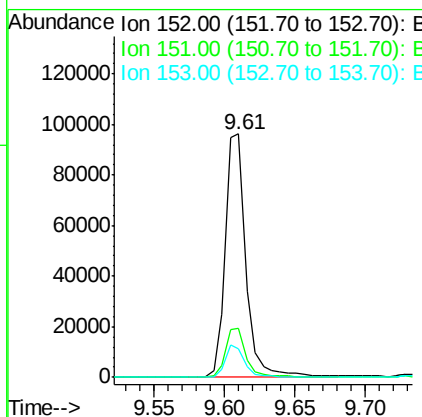
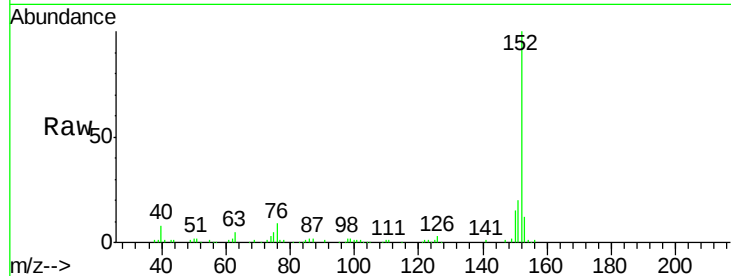
ClientSampleId :

CS-1

Tgt Ion:	152	Resp:	98229
Ion Ratio	Lower	Upper	
152	100		
151	20.3	16.9	25.3
153	11.6	11.0	16.6

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#50

Dimethylphthalate

Concen: 8.587 ng m

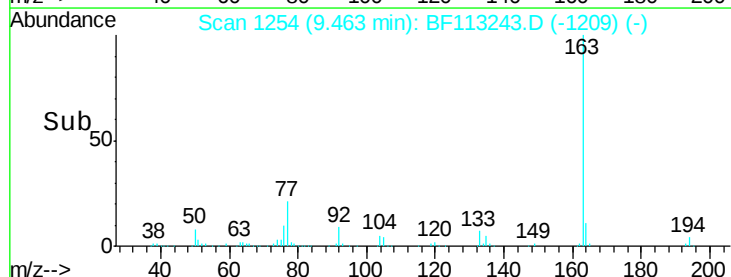
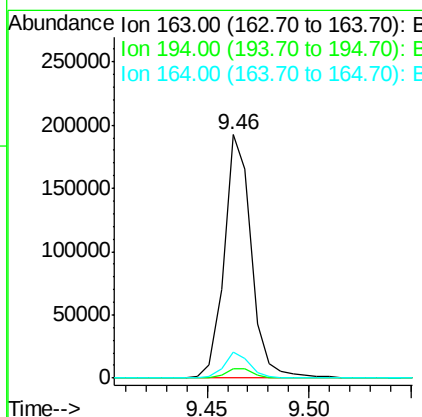
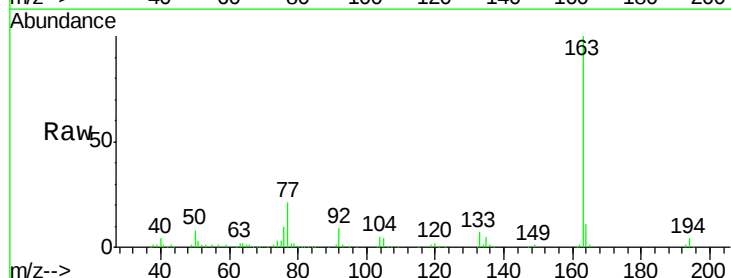
RT: 9.46 min Scan# 1254

Delta R.T. -0.04 min

Lab File: BF113243.D

Acq: 22 Mar 2019 19:17

Tgt Ion:	163	Resp:	179268
Ion Ratio	Lower	Upper	
163	100		
194	3.7	3.0	4.4
164	10.5	8.4	12.6





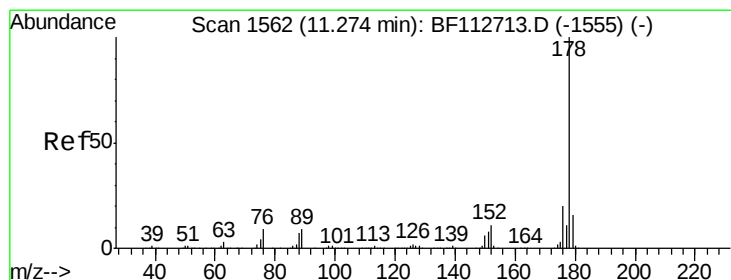
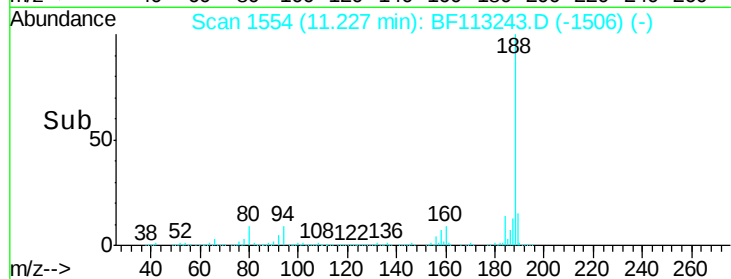
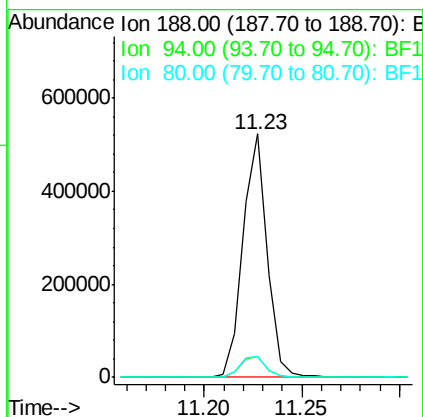
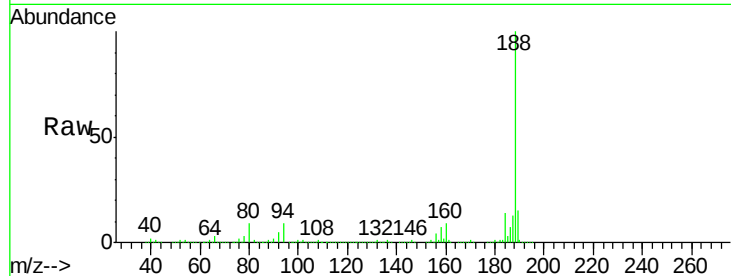
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.23 min Scan# 1554
Delta R.T. -0.02 min
Lab File: BF113243.D
Acq: 22 Mar 2019 19:17

Instrument :
BNA_F
ClientSampleId :
CS-1

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	8.8	9.0	13.4#
80	8.8	9.2	13.8#

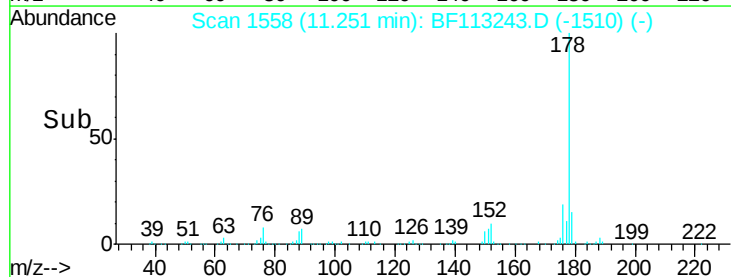
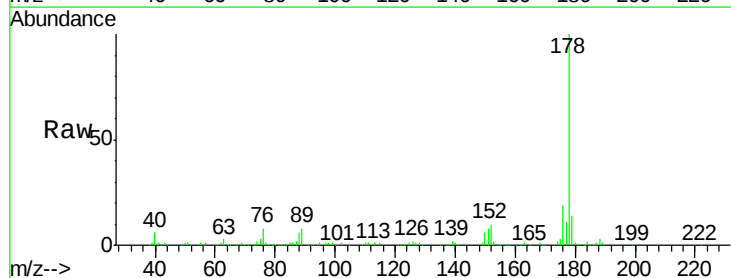
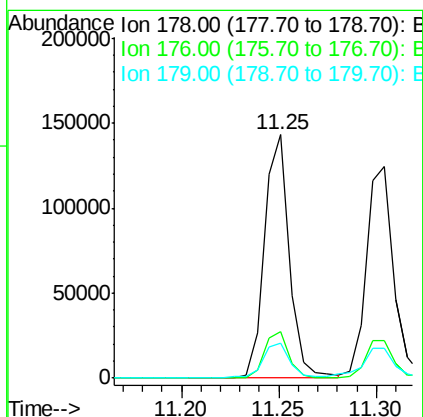
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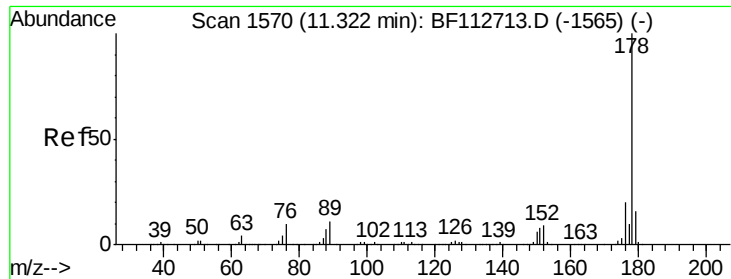
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#71
Phenanthrene
Concen: 5.643 ng
RT: 11.25 min Scan# 1558
Delta R.T. -0.02 min
Lab File: BF113243.D
Acq: 22 Mar 2019 19:17

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	19.2	16.3	24.5
179	14.5	12.7	19.1





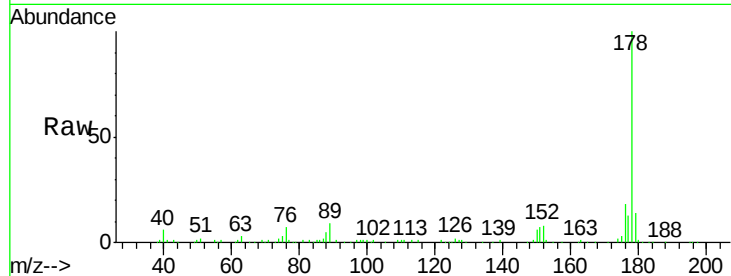
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 Anthracene
 Concen: 5.215 ng
 RT: 11.30 min Scan# 1567
 Delta R.T. -0.02 min
 Lab File: BF113243.D
 Acq: 22 Mar 2019 19:17

Instrument :
 BNA_F
 ClientSampleId :
 CS-1

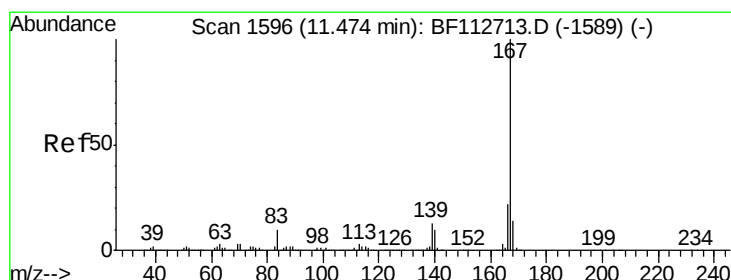
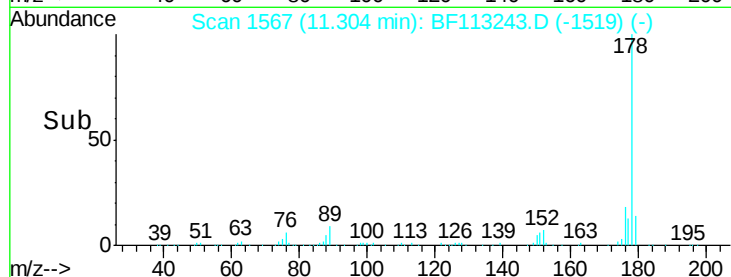
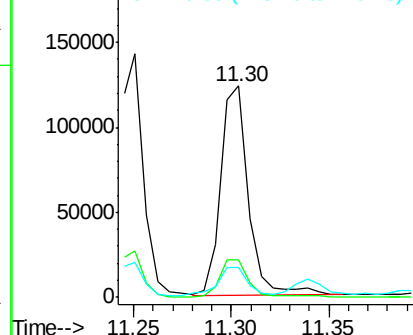
Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.9	15.8	23.6
179	13.9	13.0	19.6

Manual Integrations
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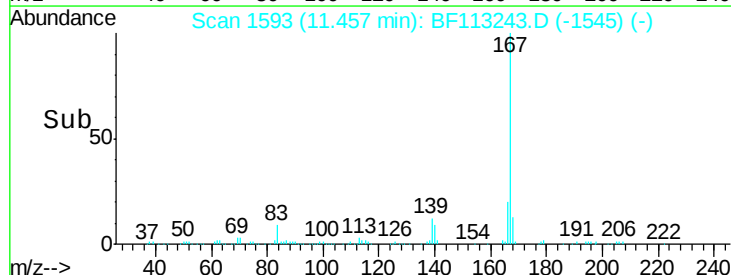
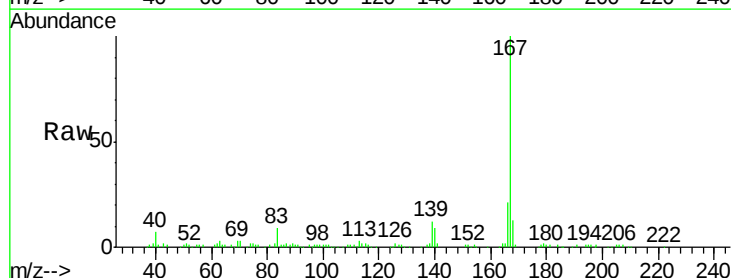
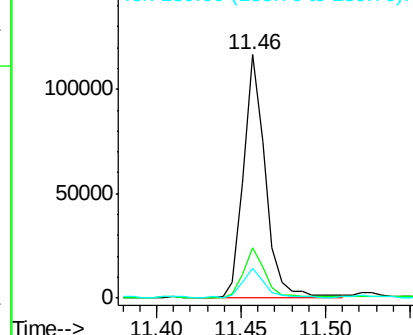
Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

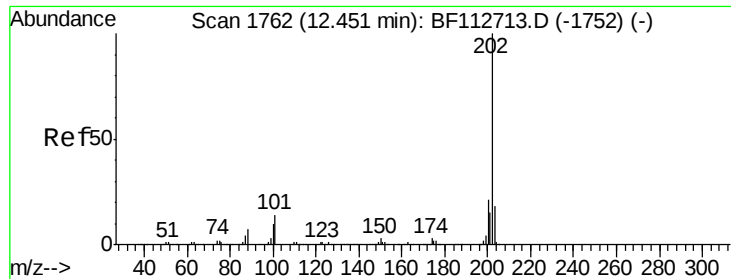


#73
 Carbazole
 Concen: 4.616 ng
 RT: 11.46 min Scan# 1593
 Delta R.T. -0.02 min
 Lab File: BF113243.D
 Acq: 22 Mar 2019 19:17

Tgt Ion	Ratio	Lower	Upper
167	100		
166	20.6	17.5	26.3
139	12.1	10.8	16.2

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: 33.871 ng

RT: 12.44 min Scan# 1760

Delta R.T. -0.01 min

Lab File: BF113243.D

Acq: 22 Mar 2019 19:17

Instrument :

BNA_F

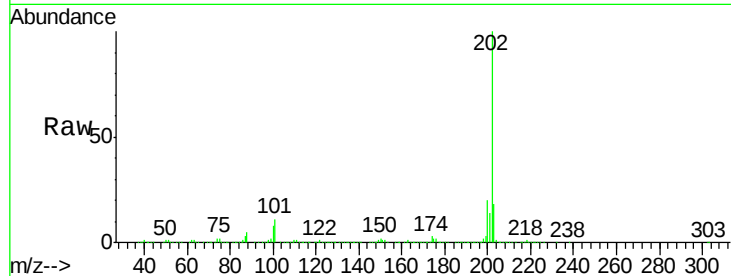
ClientSampleId :

CS-1

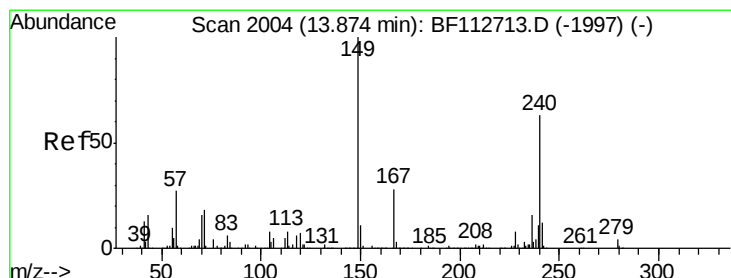
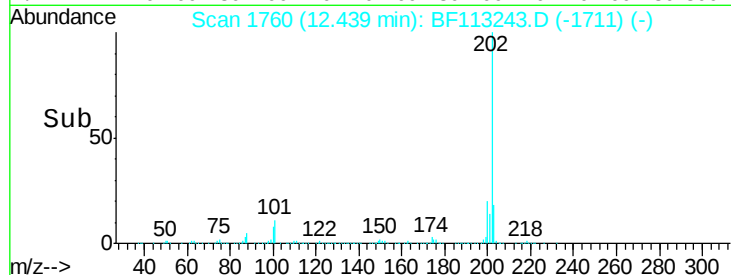
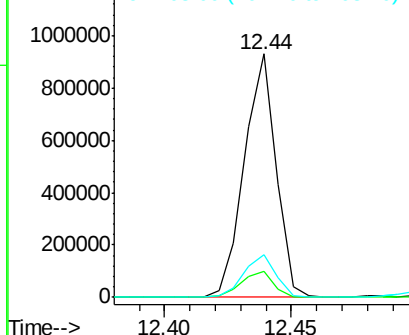
Tgt	Ion	202	Resp:	812554
Ion	Ratio	Lower	Upper	
202	100			
101	10.8	0.0	33.8	
203	17.7	0.0	38.4	

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3/25/2019 6:32:19 PM



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

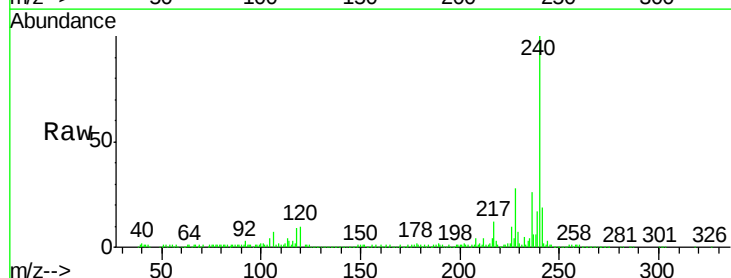
RT: 13.86 min Scan# 2002

Delta R.T. -0.01 min

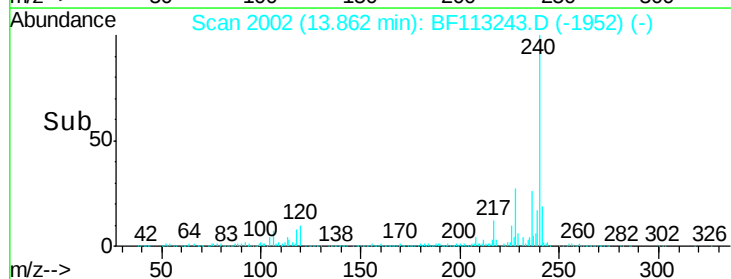
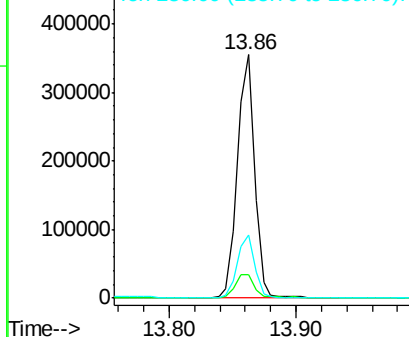
Lab File: BF113243.D

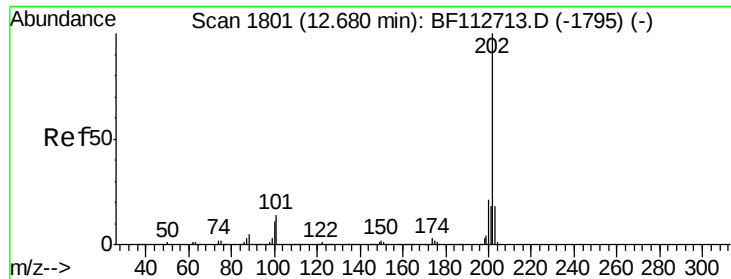
Acq: 22 Mar 2019 19:17

Tgt	Ion	240	Resp:	328409
Ion	Ratio	Lower	Upper	
240	100			
120	9.9	8.9	13.3	
236	26.2	20.7	31.1	



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: 31.628 ng

RT: 12.67 min Scan# 1799

Delta R.T. -0.01 min

Lab File: BF113243.D

Acq: 22 Mar 2019 19:17

Instrument :

BNA_F

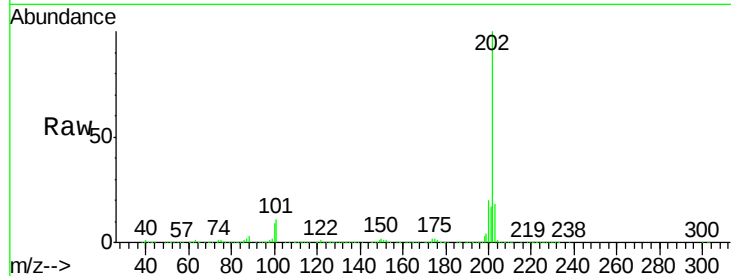
ClientSampleId :

CS-1

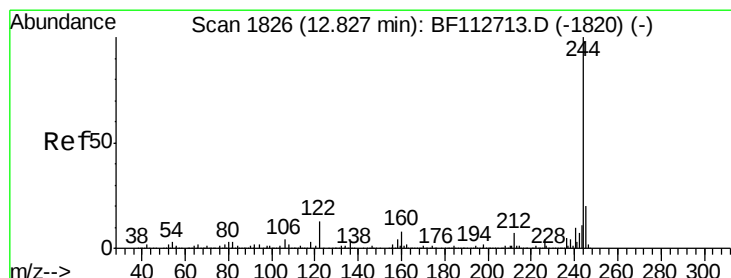
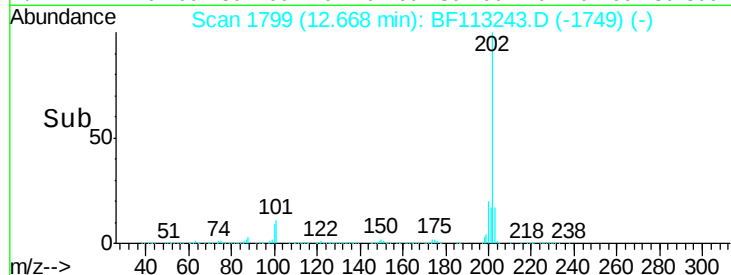
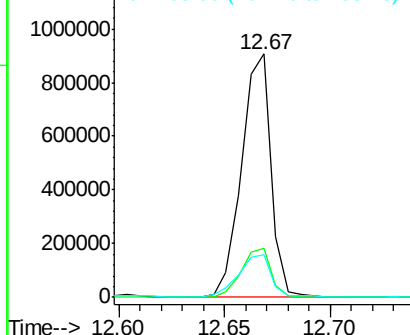
Tgt Ion:	202	Resp:	875655
Ion Ratio		Lower	Upper
202	100		
200	20.3	17.0	25.4
203	17.5	14.4	21.6

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3/25/2019 6:32:19 PM



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: 53.770 ng

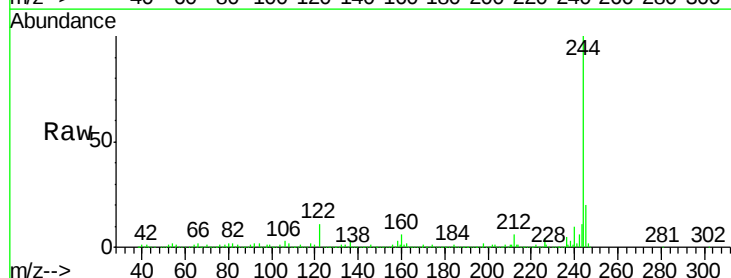
RT: 12.81 min Scan# 1823

Delta R.T. -0.01 min

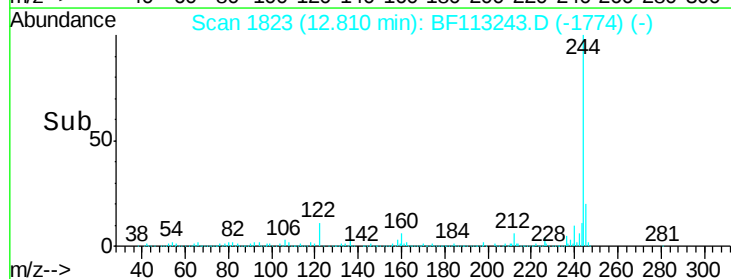
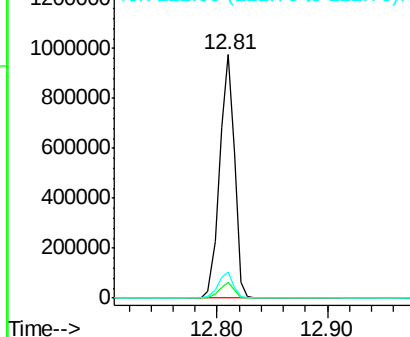
Lab File: BF113243.D

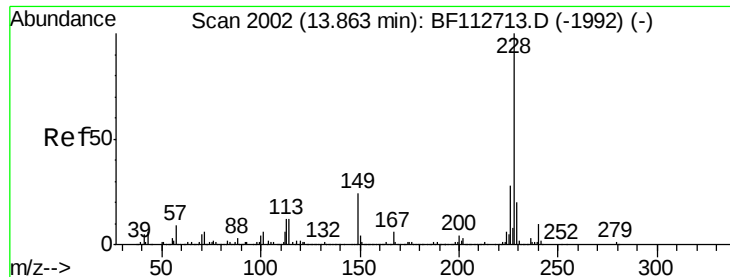
Acq: 22 Mar 2019 19:17

Tgt Ion:	244	Resp:	910932
Ion Ratio		Lower	Upper
244	100		
212	6.5	5.6	8.4
122	10.7	10.5	15.7



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





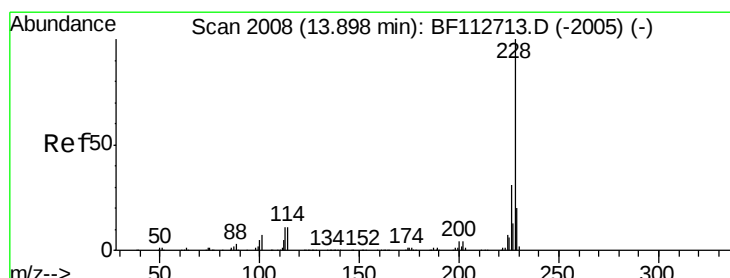
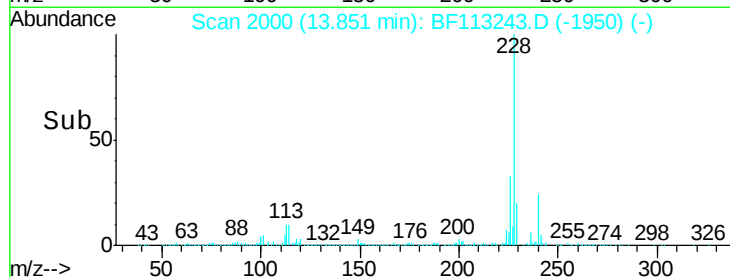
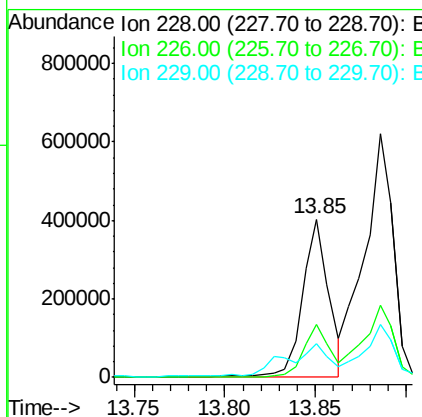
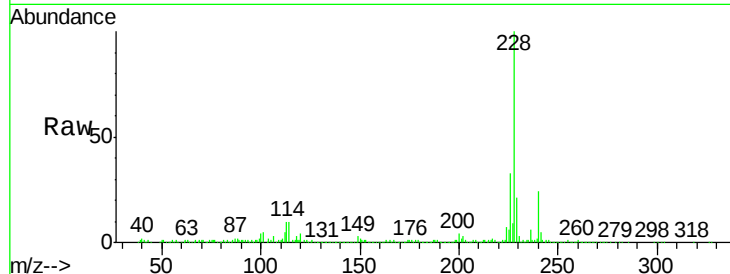
#81
Benzo(a)anthracene
Concen: 17.755 ng
RT: 13.85 min Scan# 2000
Delta R.T. -0.01 min
Lab File: BF113243.D
Acq: 22 Mar 2019 19:17

Instrument :
BNA_F
ClientSampled :
CS-1

Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.0	22.2	33.4
229	21.0	16.0	24.0

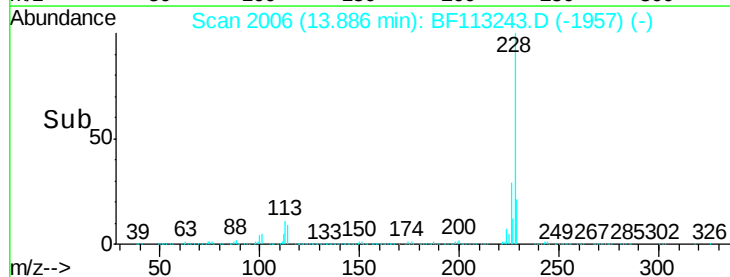
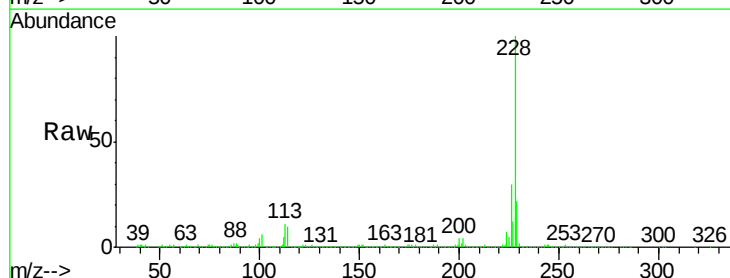
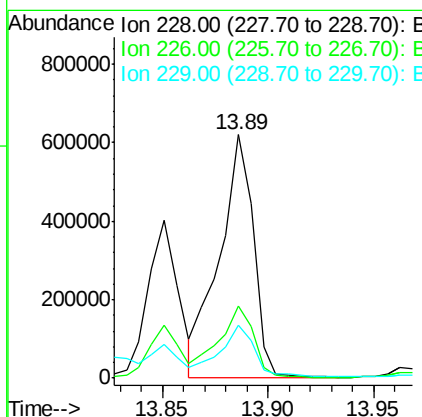
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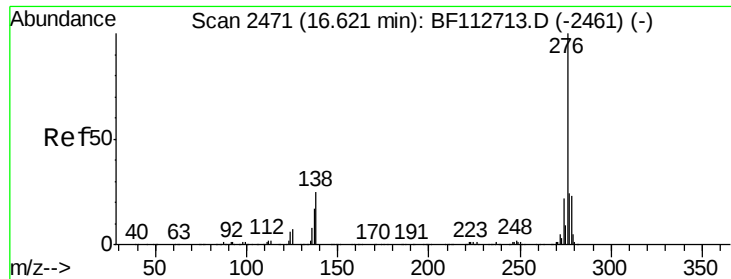
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3/25/2019 6:32:19 PM



#83
Chrysene
Concen: 30.798 ng
RT: 13.89 min Scan# 2006
Delta R.T. -0.01 min
Lab File: BF113243.D
Acq: 22 Mar 2019 19:17

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.9	37.3
229	21.9	16.3	24.5





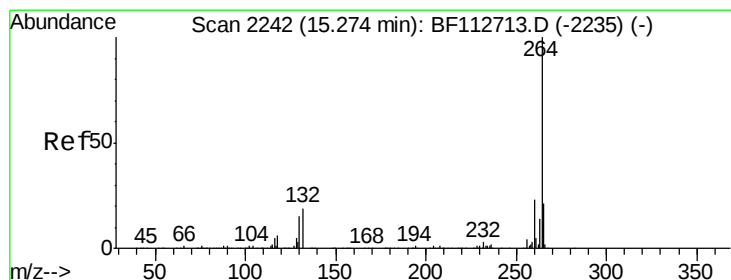
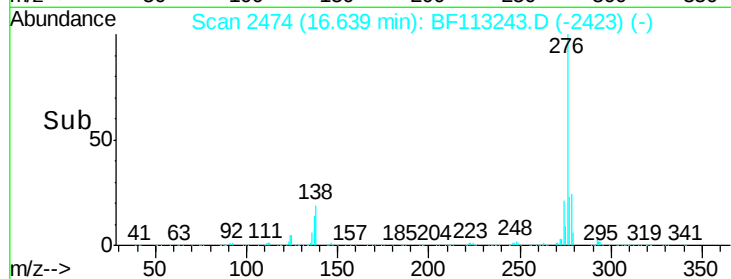
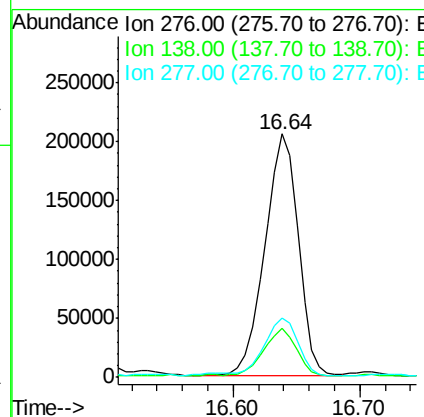
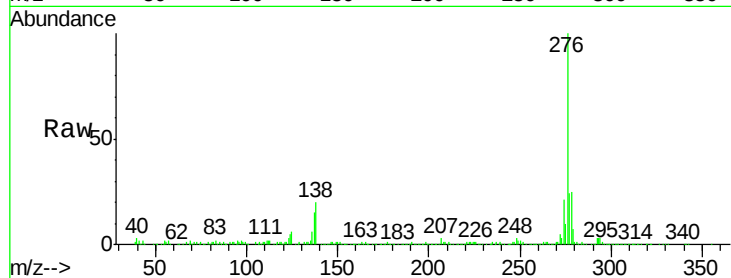
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 19.807 ng
 RT: 16.64 min Scan# 2474
 Delta R.T. -0.00 min
 Lab File: BF113243.D
 Acq: 22 Mar 2019 19:17

Instrument :
 BNA_F
 ClientSampled :
 CS-1

Tgt Ion	Ratio	Lower	Upper
276	100		
138	19.3	23.2	34.8#
277	24.1	19.9	29.9

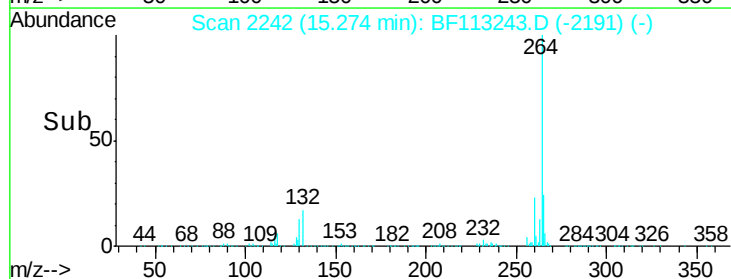
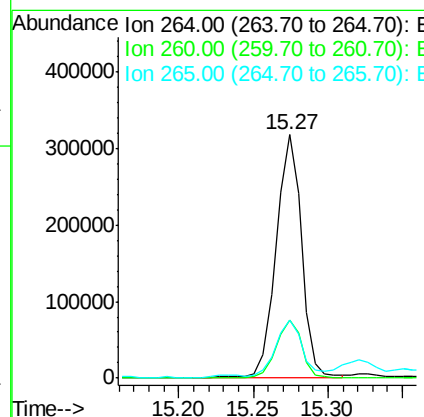
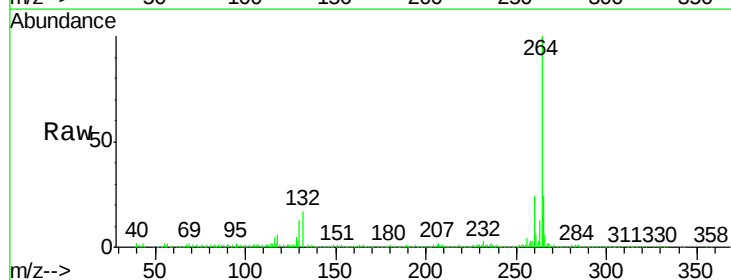
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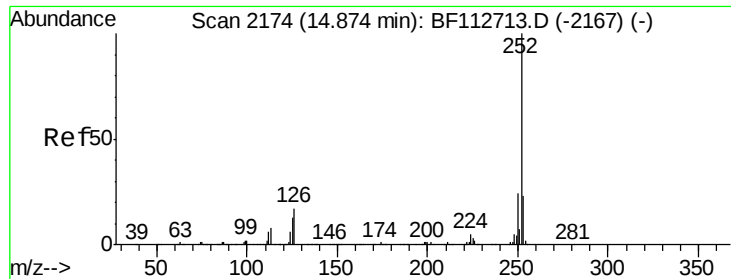
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 3/25/2019 6:32:19 PM



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.27 min Scan# 2242
 Delta R.T. -0.00 min
 Lab File: BF113243.D
 Acq: 22 Mar 2019 19:17

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.7	28.1
265	23.8	17.2	25.8





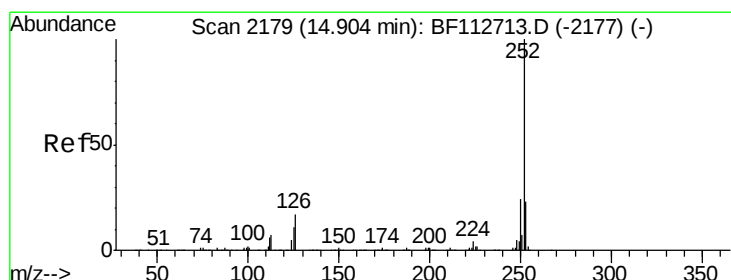
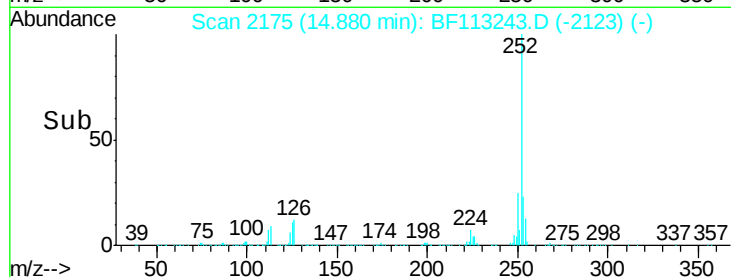
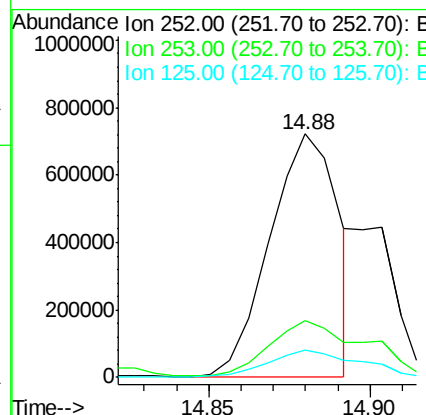
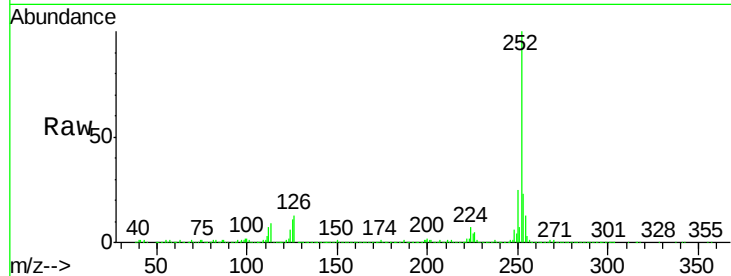
#88
Benzo(b)fluoranthene
Concen: 44.043 ng m
RT: 14.88 min Scan# 2175
Delta R.T. 0.01 min
Lab File: BF113243.D
Acq: 22 Mar 2019 19:17

Instrument :
BNA_F
ClientSampled :
CS-1

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.0	27.0
125	11.0	10.2	15.2

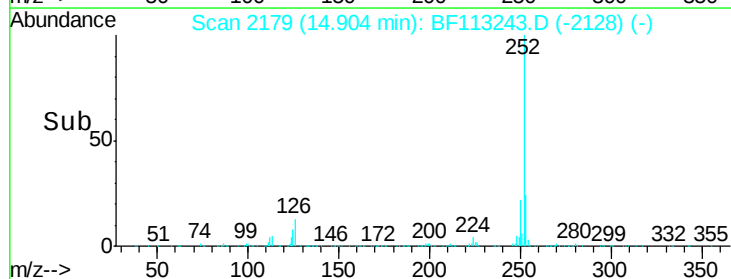
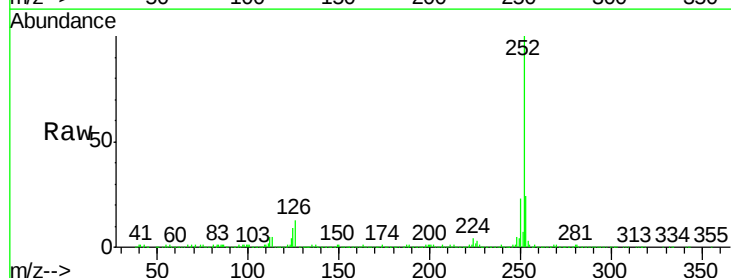
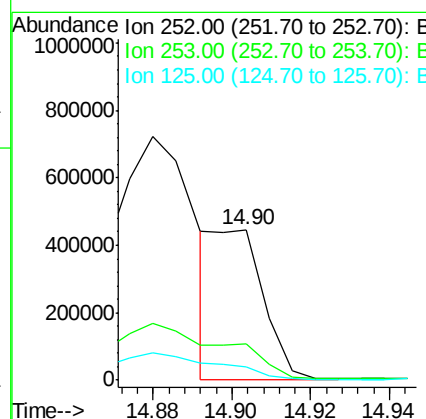
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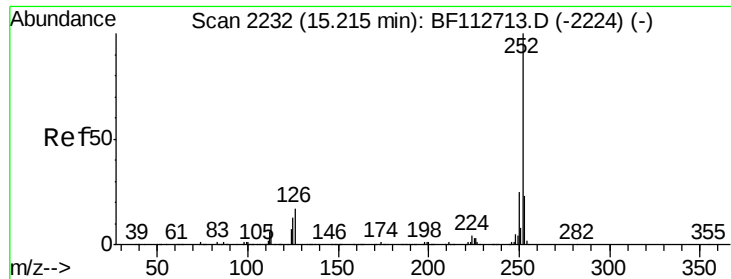
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#89
Benzo(k)fluoranthene
Concen: 17.673 ng m
RT: 14.90 min Scan# 2179
Delta R.T. -0.00 min
Lab File: BF113243.D
Acq: 22 Mar 2019 19:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.2	27.2
125	8.8	9.8	14.6#





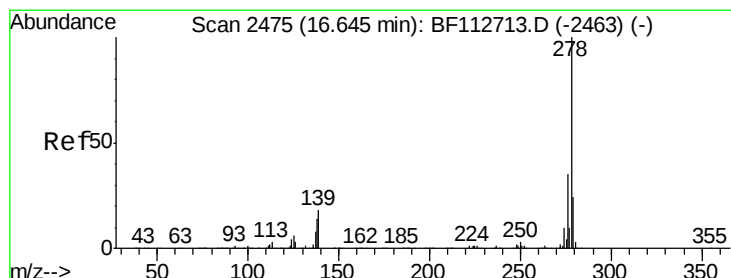
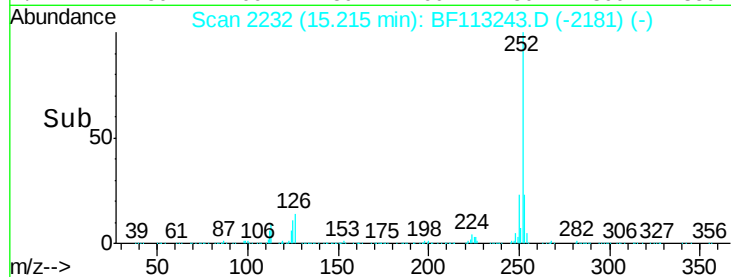
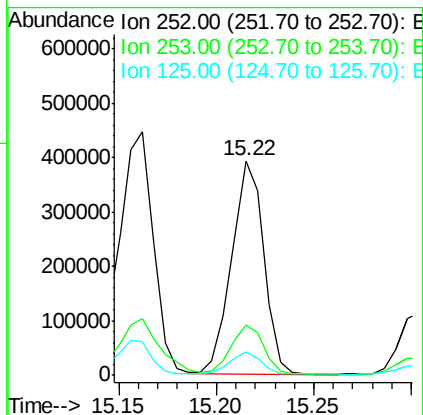
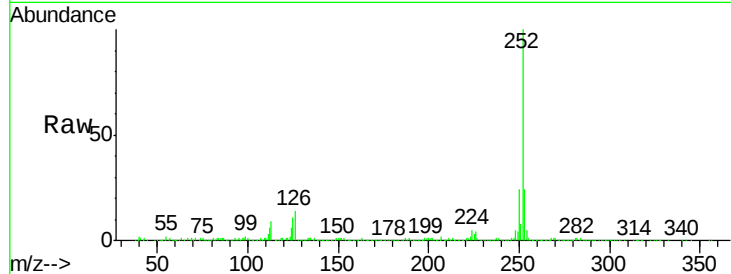
#90
Benzo(a)pyrene
Concen: 20.849 ng
RT: 15.22 min Scan# 2232
Delta R.T. -0.00 min
Lab File: BF113243.D
Acq: 22 Mar 2019 19:17

Instrument :
BNA_F
ClientSampled :
CS-1

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.0	27.0
125	11.1	10.7	16.1

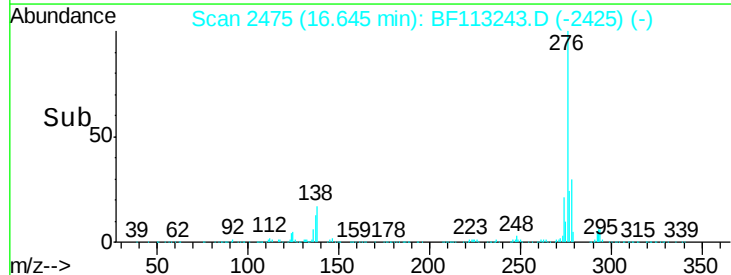
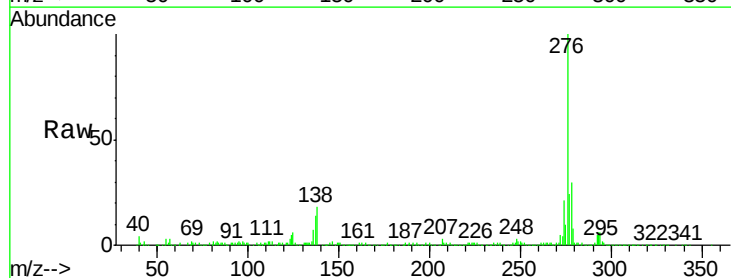
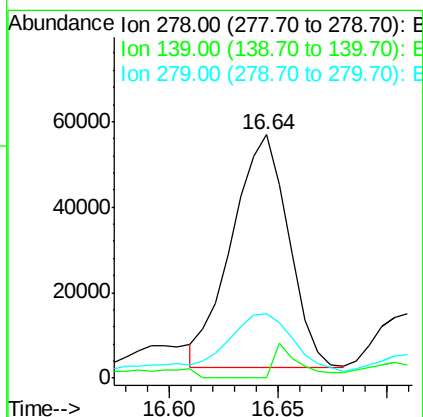
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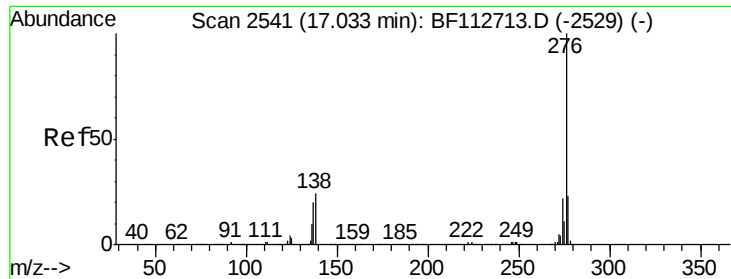
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#91
Dibenzo(a,h)anthracene
Concen: 5.363 ng m
RT: 16.64 min Scan# 2475
Delta R.T. -0.01 min
Lab File: BF113243.D
Acq: 22 Mar 2019 19:17

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	14.3	21.5#
279	26.3	19.4	29.0





#92
 Benzo(g,h,i)perylene
 Concen: 17.017 ng
 RT: 17.05 min Scan# 2544
 Delta R.T. 0.01 min
 Lab File: BF113243.D
 Acq: 22 Mar 2019 19:17

Instrument :
 BNA_F
 ClientSampleId :
 CS-1

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.7	18.6	27.8
138	19.0	19.4	29.0#

Manual Integrations
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