

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
 Data File : BF111345.D
 Acq On : 13 Dec 2018 2:08
 Operator : JU/SJ
 Sample : J6214-43 20X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-5(12.5-14.5)

Manual Integrations
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Quant Time: Dec 13 06:00:01 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 12 13:16:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	198691	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	748220	20.00	ng	0.00
39) Acenaphthene-d10	9.83	164	312136	20.00	ng	0.00
64) Phenanthrene-d10	11.32	188	537213	20.00	ng	0.00
76) Chrysene-d12	13.97	240	276060	20.00	ng	0.01
87) Perylene-d12	15.41	264	275757	20.00	ng	0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.40	112	72008	6.13	ng	0.00
7) Phenol-d6	6.42	99	89321	5.64	ng	-0.01
23) Nitrobenzene-d5	7.35	82	40581	3.06	ng	-0.02
42) 2,4,6-Tribromophenol	10.62	330	14196	5.16	ng	0.00
45) 2-Fluorobiphenyl	9.15	172	92108	4.74	ng	0.00
79) Terphenyl-d14	12.90	244	81303	6.48	ng	0.00

Target Compounds

						Qvalue
31) Naphthalene	8.10	128	86327	2.476	ng	96
52) Acenaphthene	9.86	154	293131	15.596	ng	99
55) Dibenzofuran	10.03	168	178418	6.576	ng	# 95
58) Fluorene	10.38	166	317224	16.344	ng	98
71) Phenanthrene	11.35	178	4531202	163.185	ng	100
72) Anthracene	11.40	178	1653362	58.477	ng	97
73) Carbazole	11.55	167	257851	8.820	ng	96
75) Fluoranthene	12.56	202	7139420	263.377	ng	93
78) Pyrene	12.79	202	7189292	337.438	ng	94
81) Benzo(a)anthracene	13.96	228	3395319	219.819	ng	97
83) Chrysene	14.00	228	2934382	186.206	ng	98
86) Indeno(1,2,3-cd)pyrene	16.84	276	1297573	105.277	ng	94
88) Benzo(b)fluoranthene	15.00	252	3089694m	197.040	ng	
89) Benzo(k)fluoranthene	15.02	252	1075424m	68.709	ng	
90) Benzo(a)pyrene	15.36	252	2450304	167.828	ng	97
91) Dibenzo(a,h)anthracene	16.84	278	331415	27.283	ng	94
92) Benzo(g,h,i)perylene	17.27	276	1257732	103.563	ng	95

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

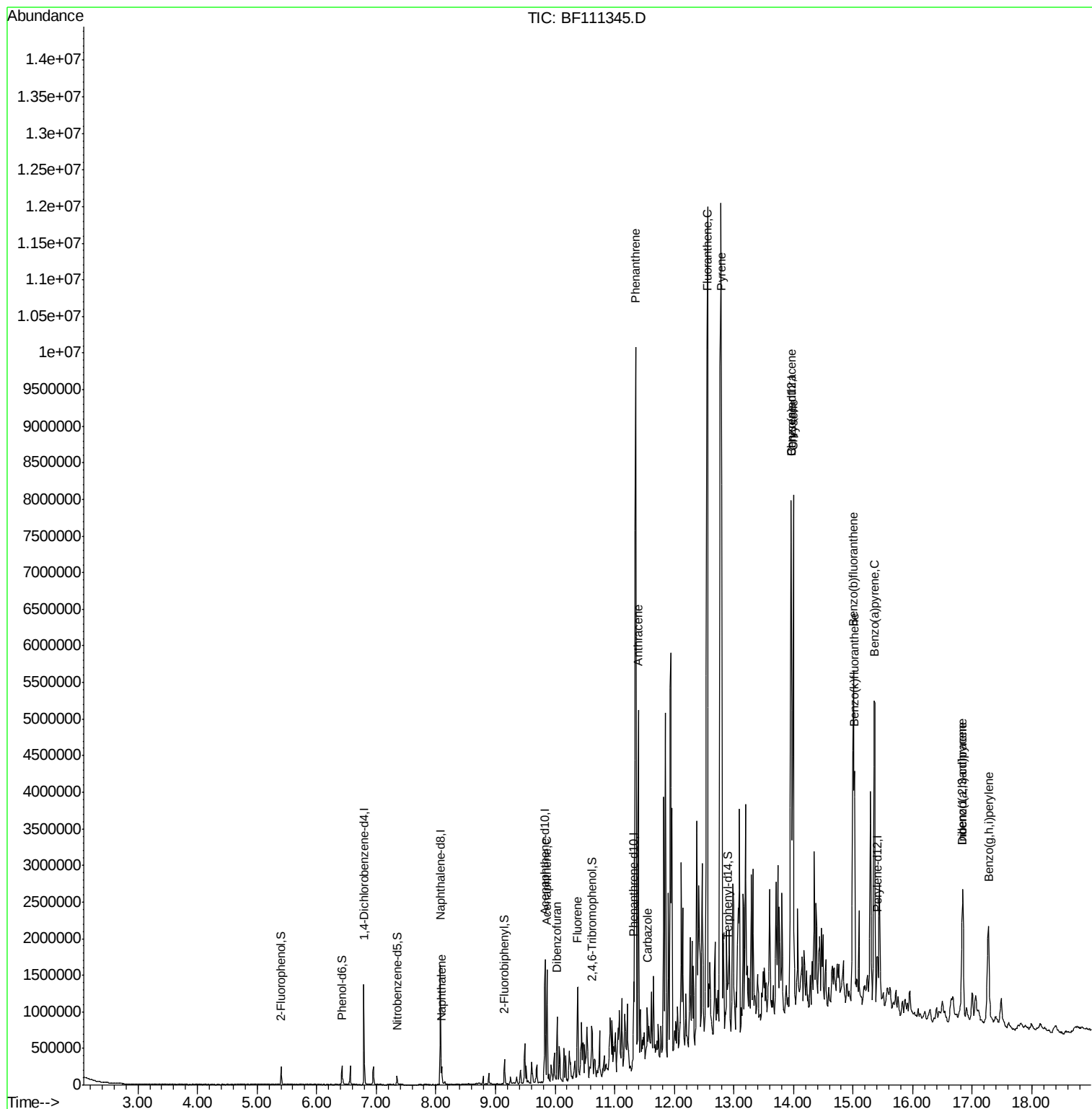
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111345.D
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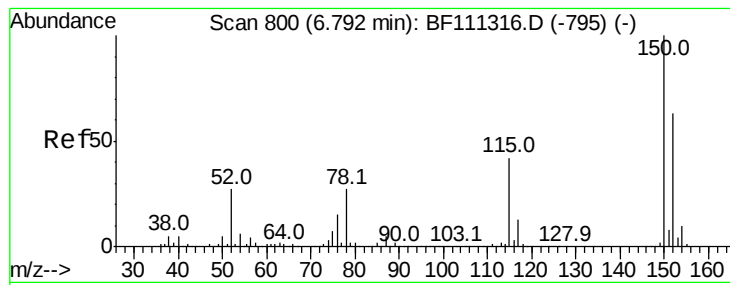
Instrument :
BNA_F
ClientSampleId :
SB-5(12.5-14.5)

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Quant Time: Dec 13 06:00:01 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration





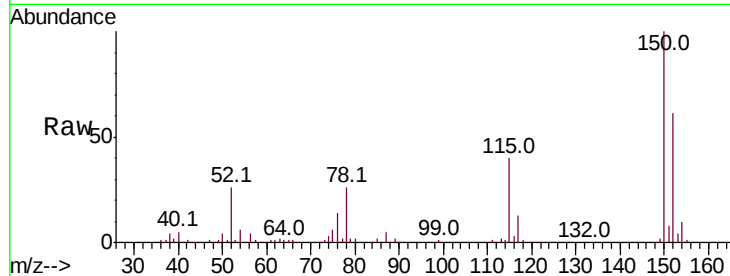
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.79 min Scan# 800
 Delta R.T. 0.00 min
 Lab File: BF111345.D
 Acq: 13 Dec 2018 2:08

Instrument :
 BNA_F
 ClientSampleId :
 SB-5(12.5-14.5)

Tot Ion	Ratio	Lower	Upper
152	100		
150	163.3	126.6	189.8
115	65.7	50.7	76.1

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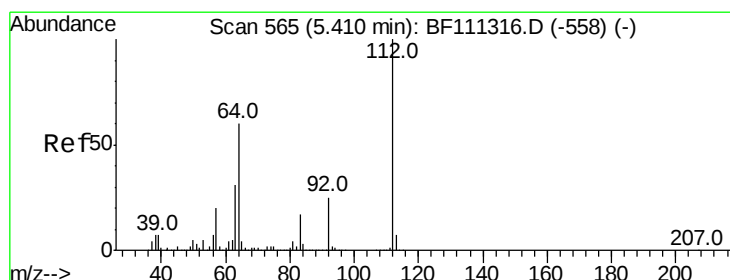
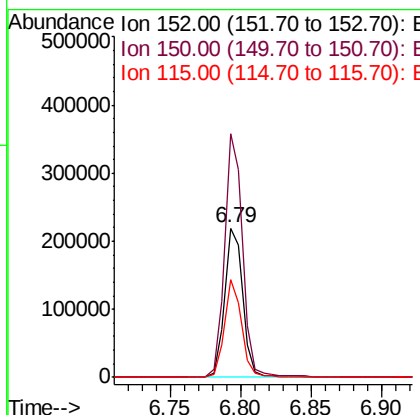
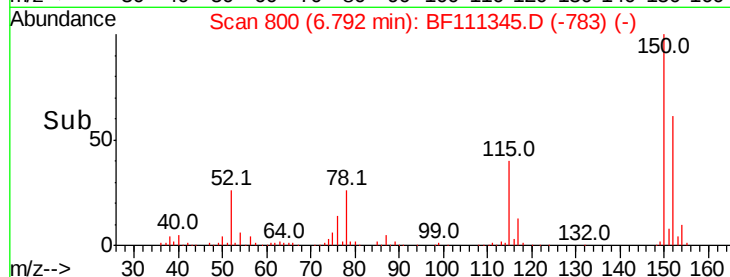


Abundance

Ion 152.00 (151.70 to 152.70): E

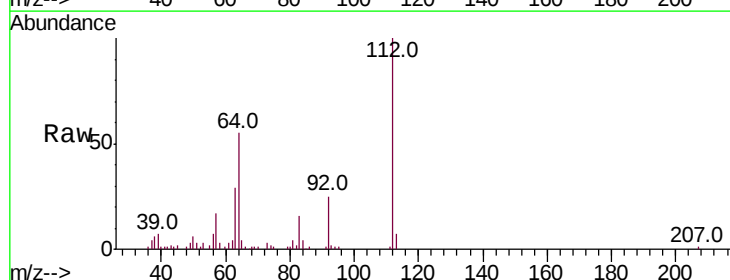
Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5
 2-Fluorophenol
 Concen: 6.128 ng
 RT: 5.40 min Scan# 564
 Delta R.T. -0.01 min
 Lab File: BF111345.D
 Acq: 13 Dec 2018 2:08

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.6	51.8	77.6
63	28.7	26.8	40.2

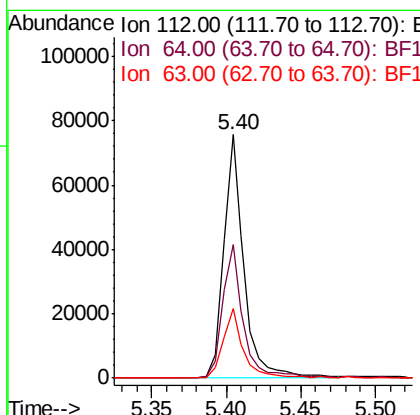
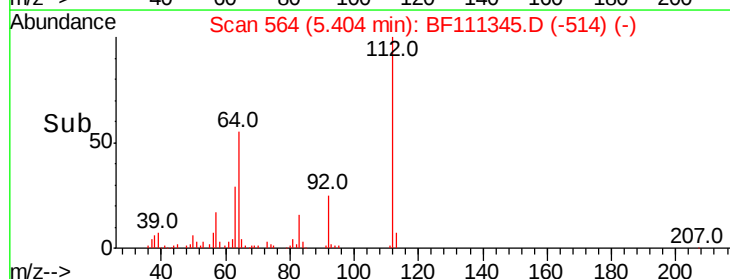


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 5.638 ng

RT: 6.42 min Scan# 737

Delta R.T. -0.01 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

Instrument :

BNA_F

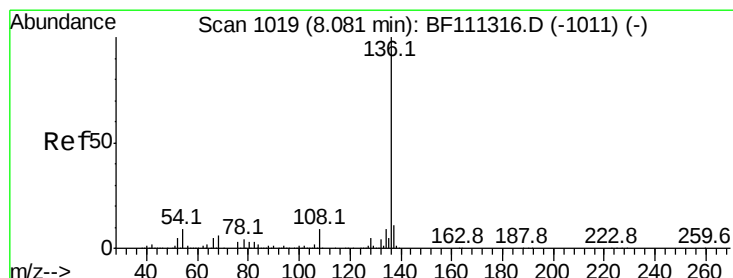
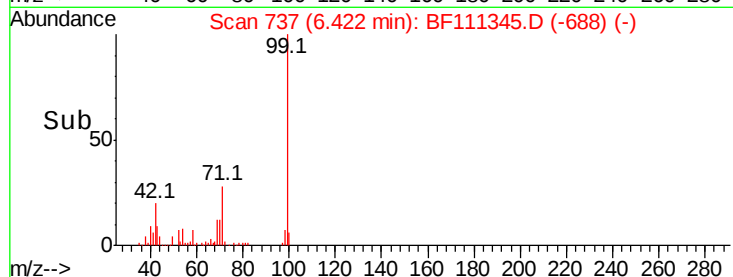
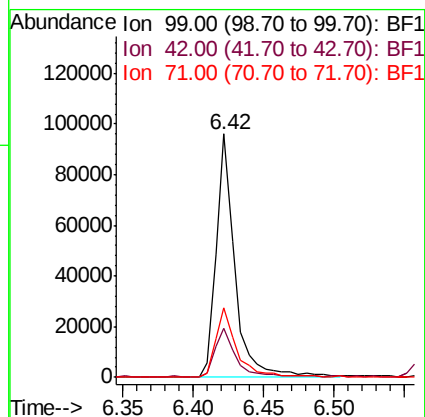
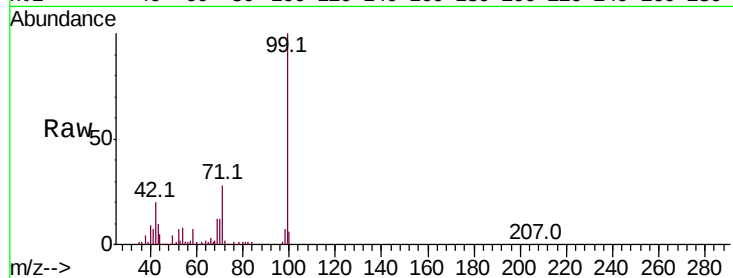
ClientSampleId :

SB-5(12.5-14.5)

Tot Ion:	99	Resp:	89321
Ion Ratio	Lower	Upper	
99	100		
42	20.2	17.4	26.0
71	28.4	26.1	39.1

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#21

Naphthalene-d8

Concen: 20.000 ng

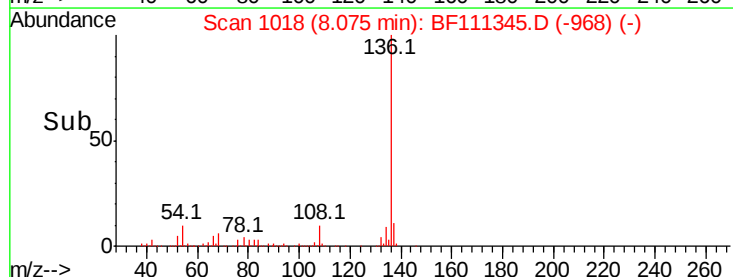
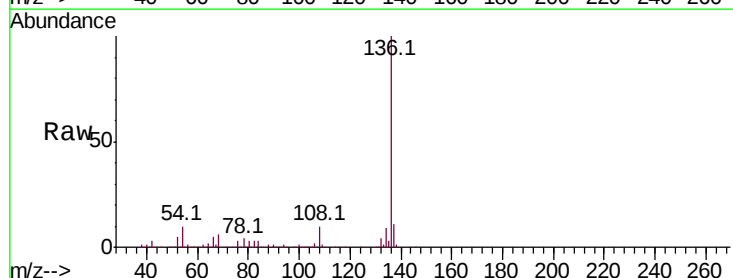
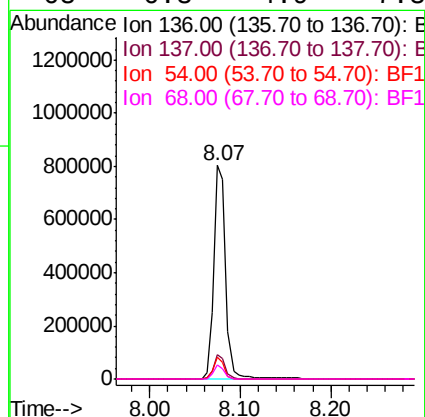
RT: 8.07 min Scan# 1018

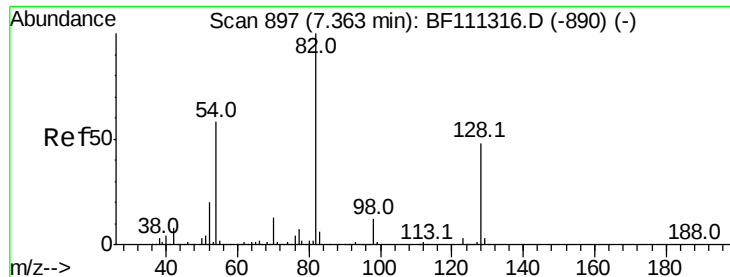
Delta R.T. -0.01 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

Tgt Ion:	136	Resp:	748220
Ion Ratio	Lower	Upper	
136	100		
137	11.5	9.1	13.7
54	10.1	7.7	11.5
68	6.3	4.9	7.3





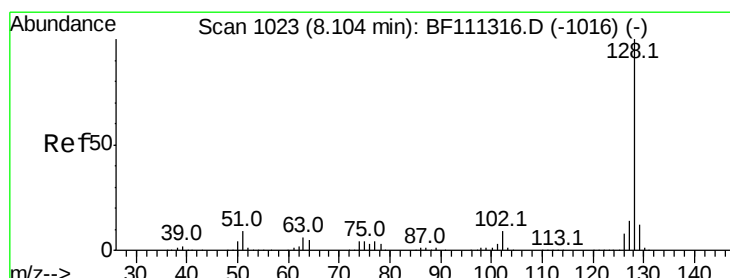
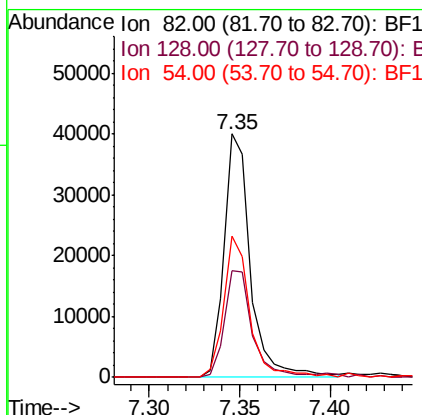
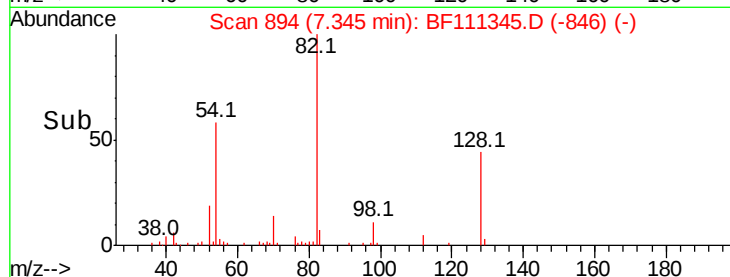
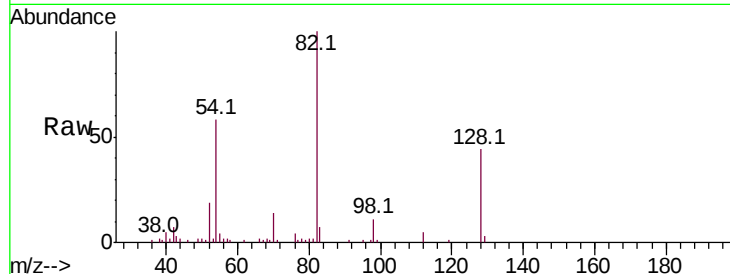
#23
Nitrobenzene-d5
Concen: 3.057 ng
RT: 7.35 min Scan# 894
Delta R.T. -0.02 min
Lab File: BF111345.D
Acq: 13 Dec 2018 2:08

Instrument :
BNA_F
ClientSampleId :
SB-5(12.5-14.5)

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.9	37.4	56.2
54	58.0	47.6	71.4

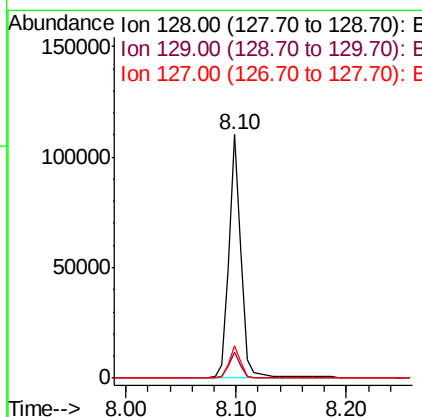
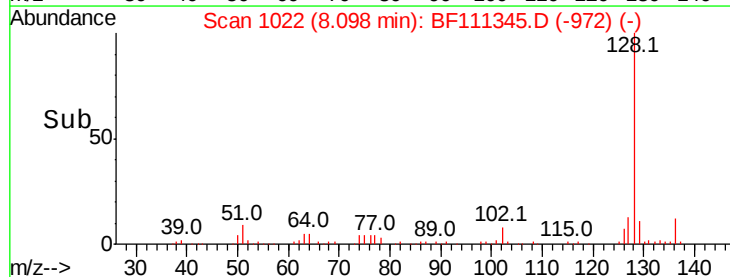
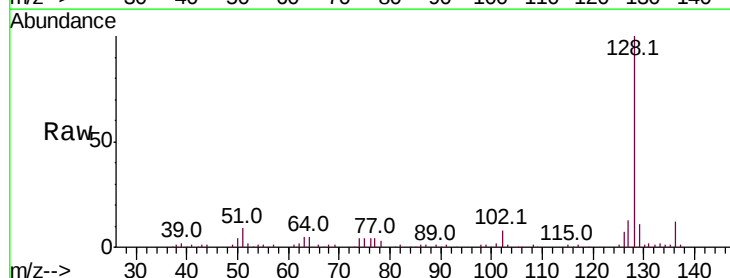
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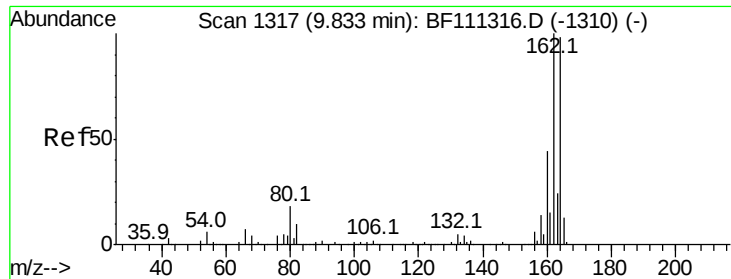
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#31
Naphthalene
Concen: 2.476 ng
RT: 8.10 min Scan# 1022
Delta R.T. -0.01 min
Lab File: BF111345.D
Acq: 13 Dec 2018 2:08

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.7	9.8	14.8
127	13.1	12.0	18.0





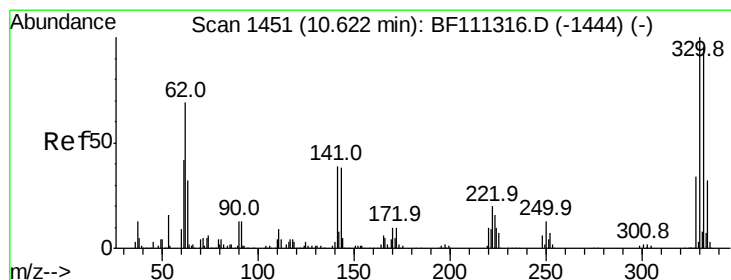
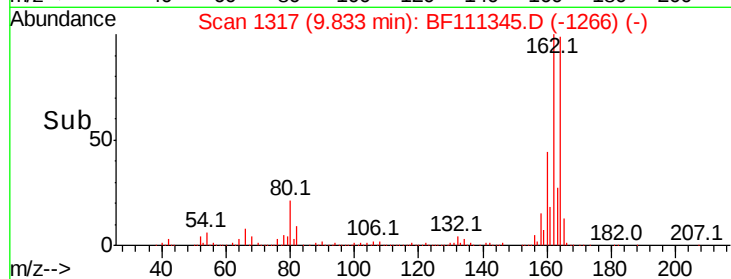
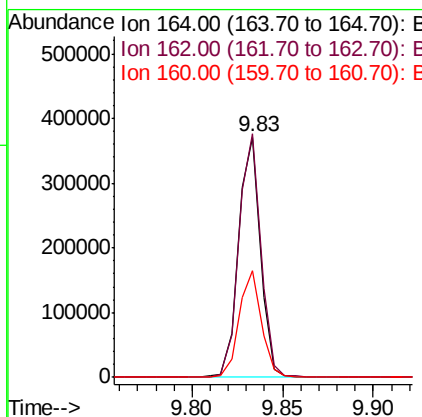
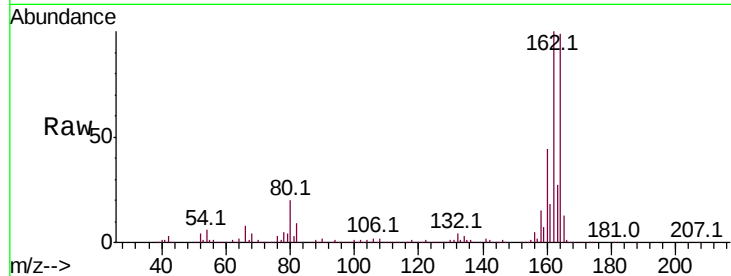
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.83 min Scan# 1317
Delta R.T. 0.00 min
Lab File: BF111345.D
Acq: 13 Dec 2018 2:08

Instrument :
BNA_F
ClientSampleId :
SB-5(12.5-14.5)

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	101.4	81.4	122.0	
160	44.4	35.7	53.5	

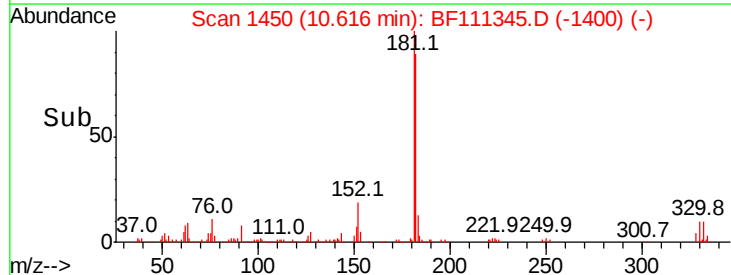
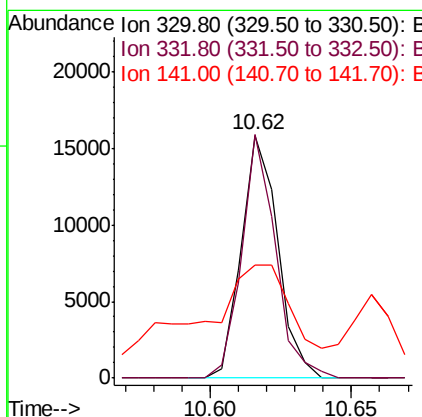
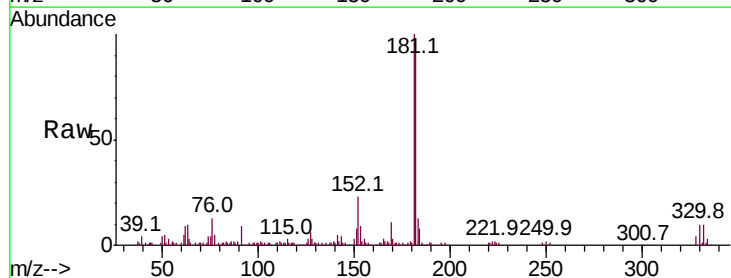
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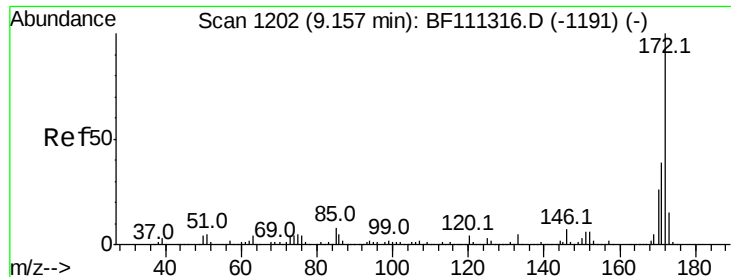
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#42
2,4,6-Tribromophenol
Concen: 5.159 ng
RT: 10.62 min Scan# 1450
Delta R.T. -0.01 min
Lab File: BF111345.D
Acq: 13 Dec 2018 2:08

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	92.9	76.0	114.0	
141	84.3	31.0	46.6#	





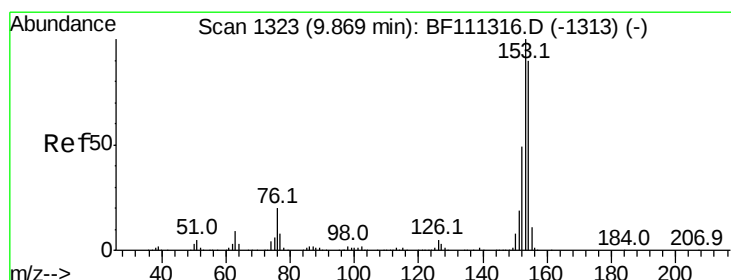
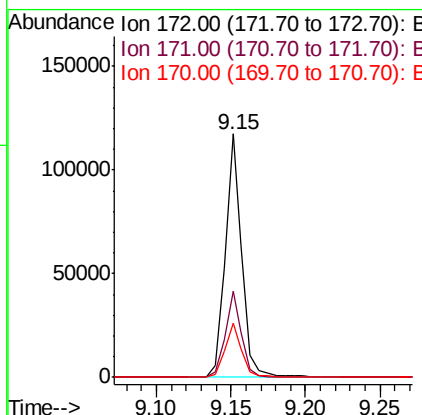
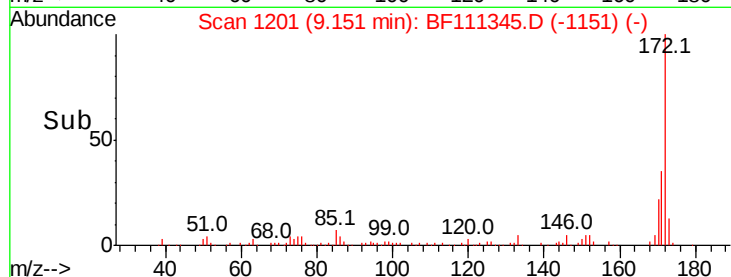
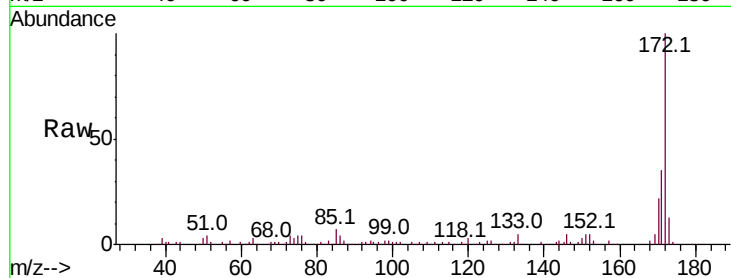
#45
2-Fluorobiphenyl
Concen: 4.738 ng
RT: 9.15 min Scan# 1201
Delta R.T. -0.01 min
Lab File: BF111345.D
Acq: 13 Dec 2018 2:08

Instrument :
BNA_F
ClientSampleId :
SB-5(12.5-14.5)

Tot Ion	Ratio	Resp Lower	Upper
172	100		
171	35.1	33.0	49.4
170	22.3	22.3	33.5

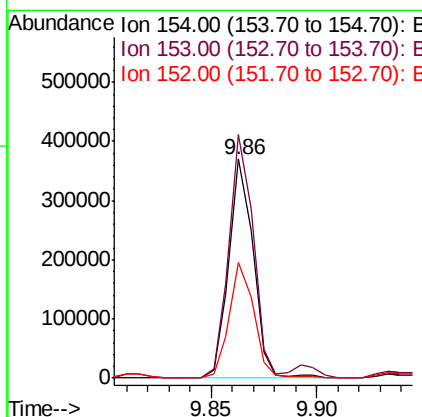
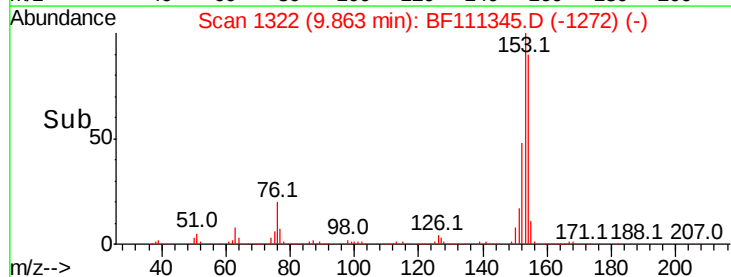
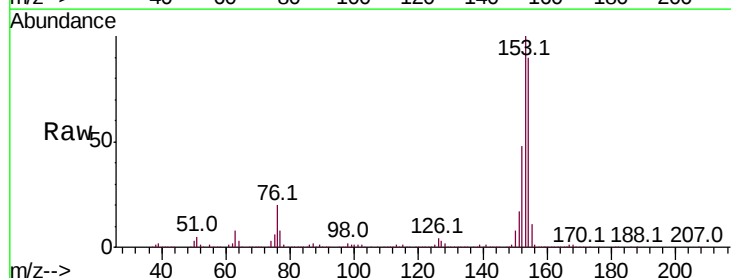
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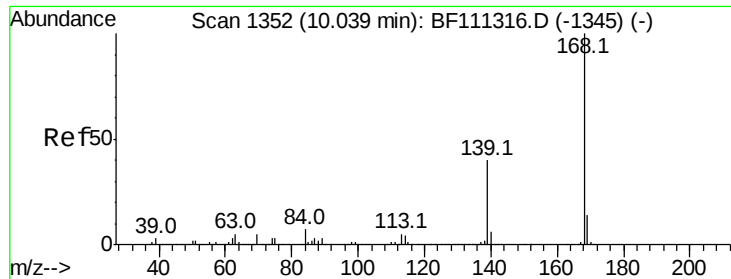
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#52
Acenaphthene
Concen: 15.596 ng
RT: 9.86 min Scan# 1322
Delta R.T. -0.01 min
Lab File: BF111345.D
Acq: 13 Dec 2018 2:08

Tgt Ion	Ratio	Resp Lower	Upper
154	100		
153	111.1	87.8	131.8
152	53.0	43.4	65.2





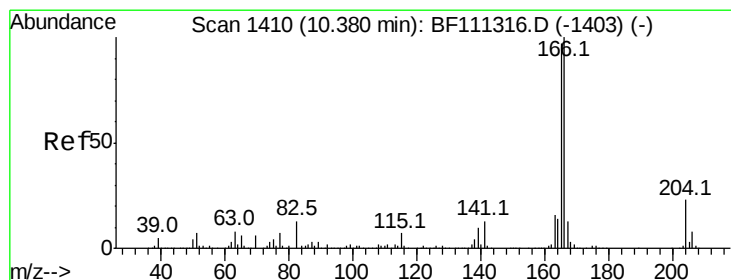
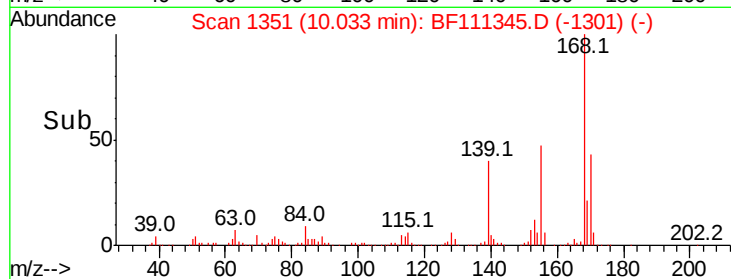
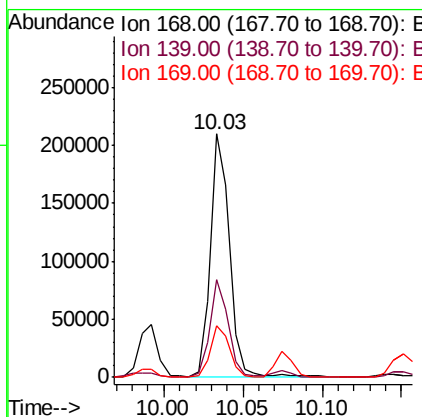
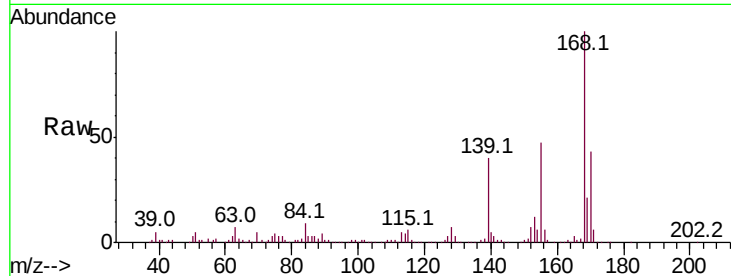
#55
Dibenzofuran
Concen: 6.576 ng
RT: 10.03 min Scan# 1351
Delta R.T. -0.01 min
Lab File: BF111345.D
Acq: 13 Dec 2018 2:08

Instrument :
BNA_F
ClientSampleId :
SB-5(12.5-14.5)

Tot Ion	Ratio	Lower	Upper
168	100		
139	40.2	32.6	49.0
169	21.4	11.8	17.6

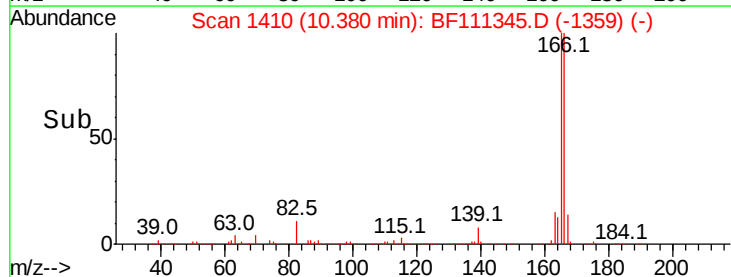
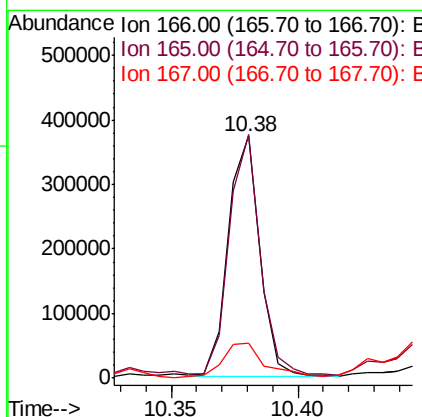
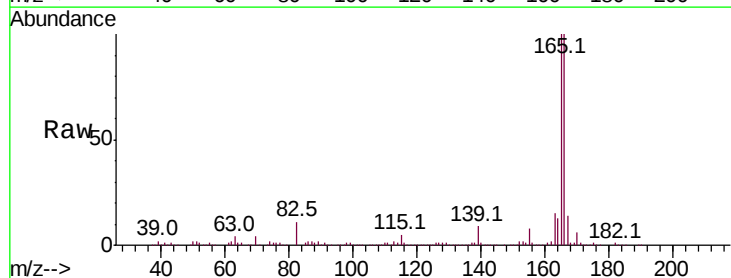
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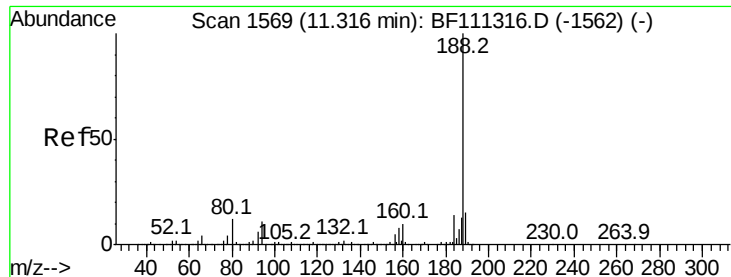
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#58
Fluorene
Concen: 16.344 ng
RT: 10.38 min Scan# 1410
Delta R.T. 0.00 min
Lab File: BF111345.D
Acq: 13 Dec 2018 2:08

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.5	78.4	117.6
167	14.2	11.2	16.8





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.32 min Scan# 1570

Delta R.T. 0.01 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

Instrument :

BNA_F

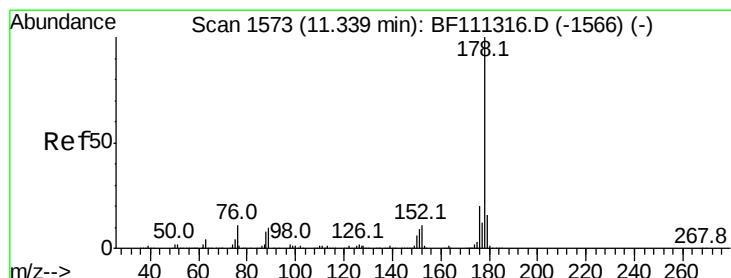
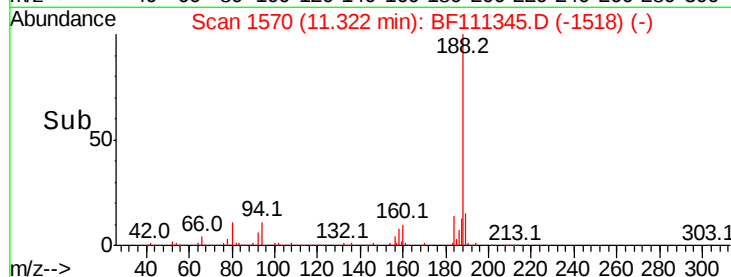
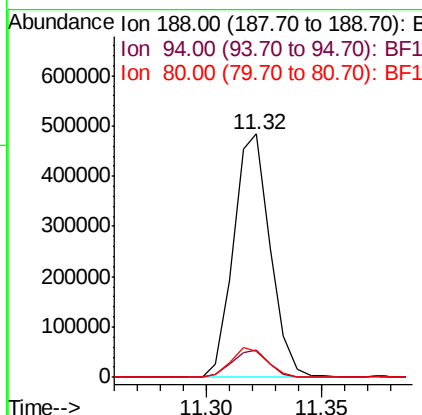
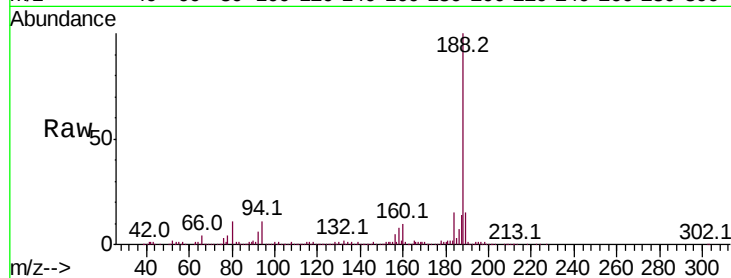
ClientSampleId :

SB-5(12.5-14.5)

Tot Ion:	188	Resp:	537213
Ion Ratio	Lower	Upper	
188	100		
94	11.4	9.6	14.4
80	10.8	9.8	14.6

Manual Integrations
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#71

Phenanthrene

Concen: 163.185 ng

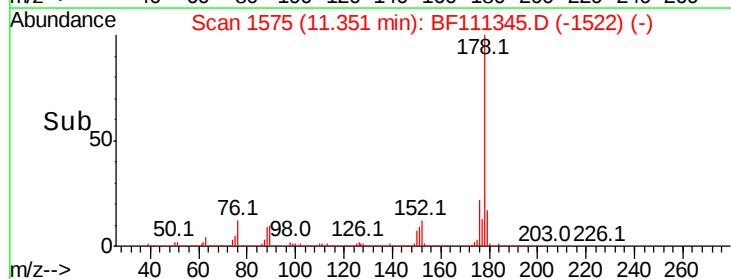
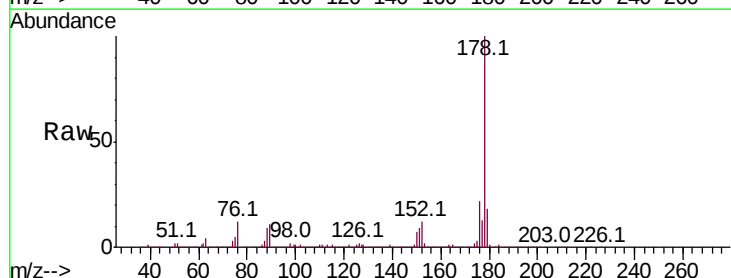
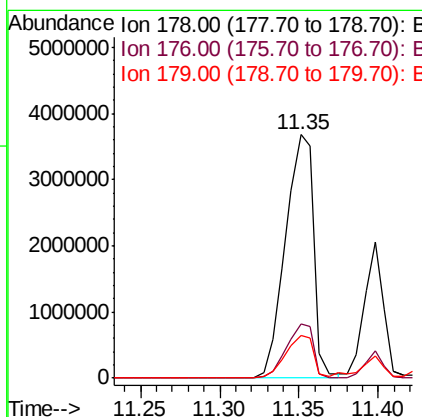
RT: 11.35 min Scan# 1575

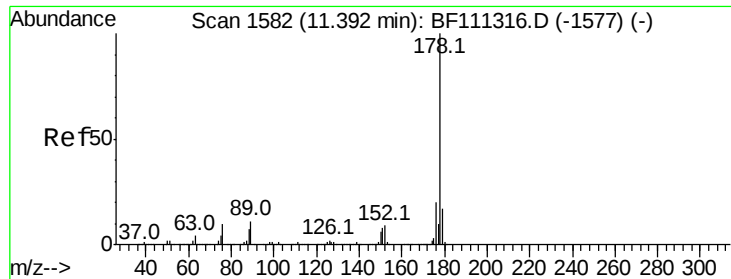
Delta R.T. 0.01 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

Tgt Ion:	178	Resp:	4531202
Ion Ratio	Lower	Upper	
178	100		
176	22.5	18.1	27.1
179	17.7	14.0	21.0





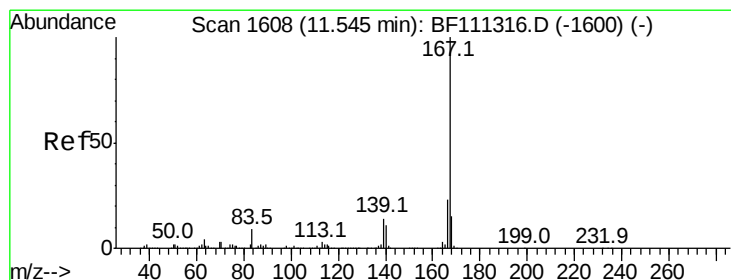
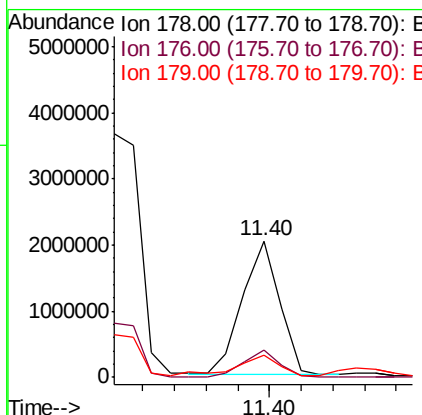
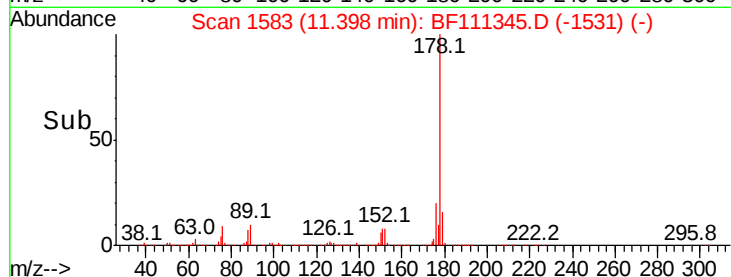
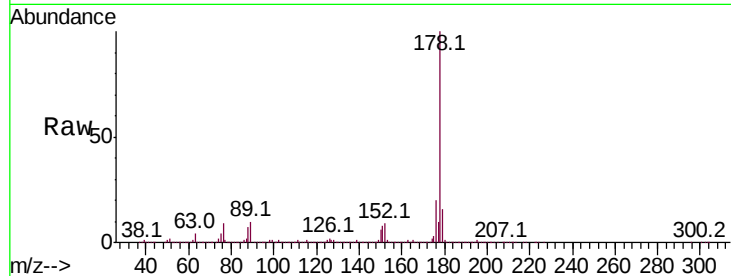
#72
 Anthracene
 Concen: 58.477 ng
 RT: 11.40 min Scan# 1583
 Delta R.T. 0.01 min
 Lab File: BF111345.D
 Acq: 13 Dec 2018 2:08

Instrument :
 BNA_F
 ClientSampleId :
 SB-5(12.5-14.5)

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.8	17.2	25.8
179	16.2	13.8	20.8

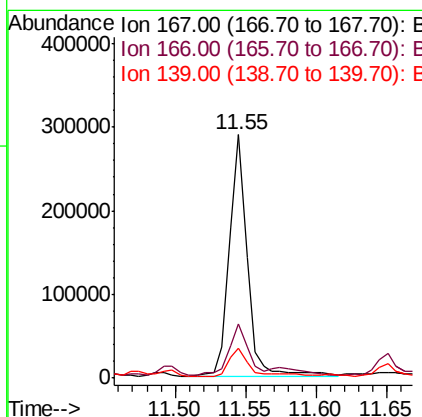
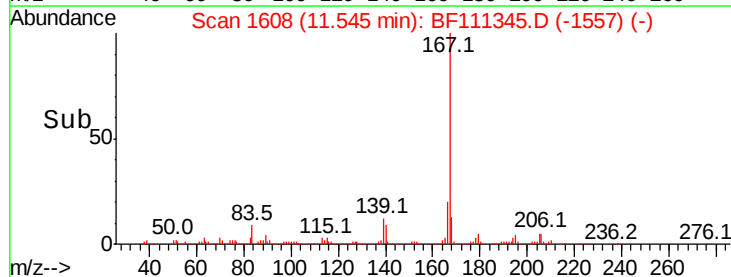
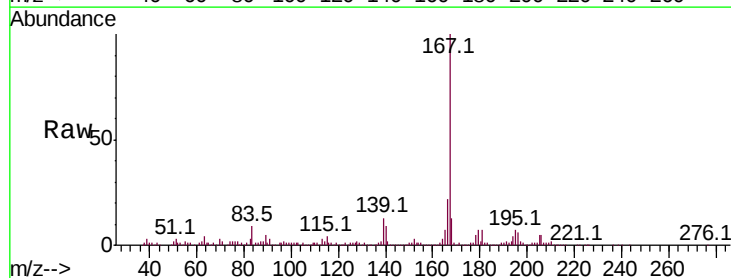
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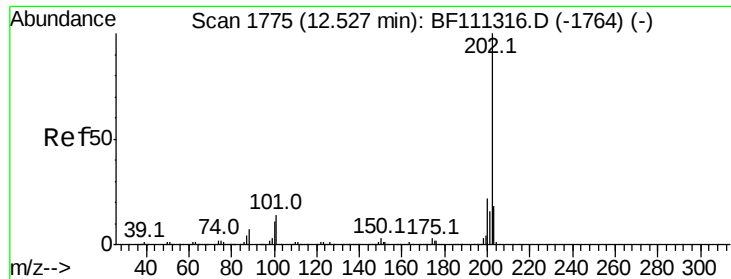
Sohil
 12/13/2018 6:06:57 PM



#73
 Carbazole
 Concen: 8.820 ng
 RT: 11.55 min Scan# 1608
 Delta R.T. 0.00 min
 Lab File: BF111345.D
 Acq: 13 Dec 2018 2:08

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.4	19.3	28.9
139	12.5	11.9	17.9





#75

Fluoranthene

Concen: 263.377 ng

RT: 12.56 min Scan# 1780

Delta R.T. 0.03 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

Instrument :

BNA_F

ClientSampleId :

SB-5(12.5-14.5)

Tot Ion:202 Resp: 7139420

Ion Ratio Lower Upper

202 100

101 17.3 0.0 33.8

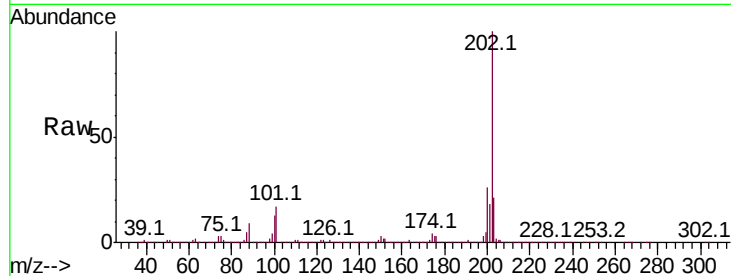
203 20.9 0.0 38.6

Manual Integrations

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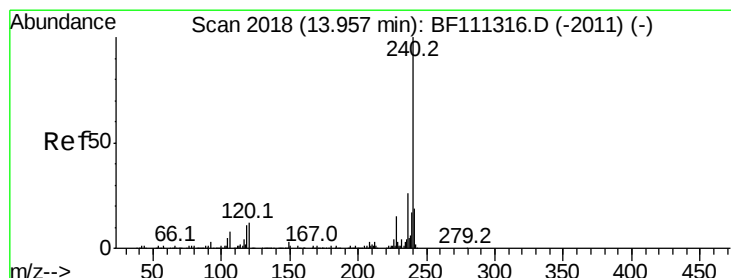
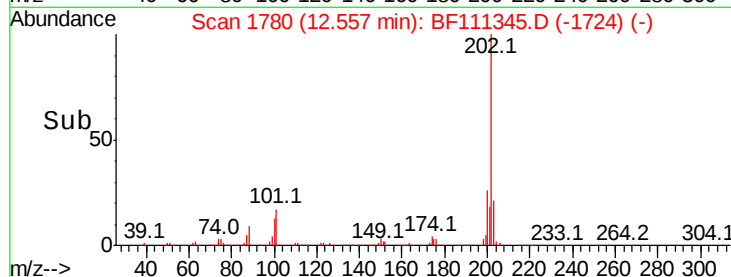
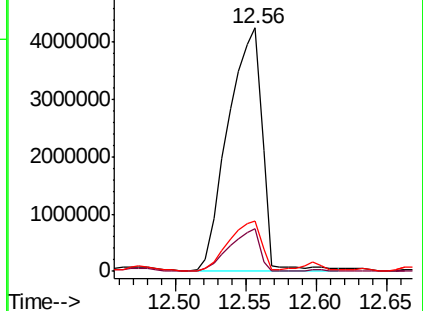
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Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.97 min Scan# 2020

Delta R.T. 0.01 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

Tgt Ion:240 Resp: 276060

Ion Ratio Lower Upper

240 100

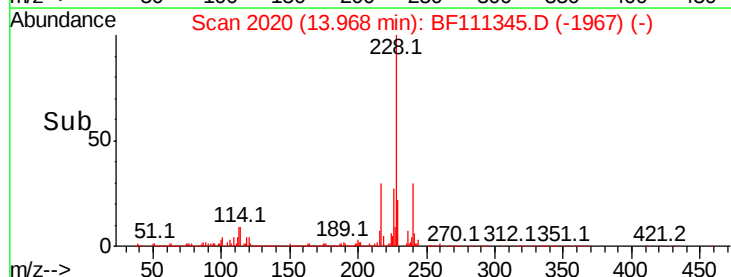
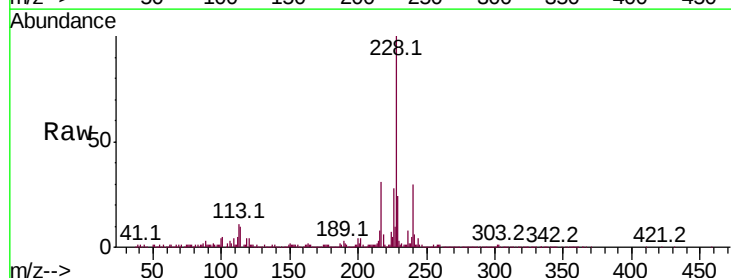
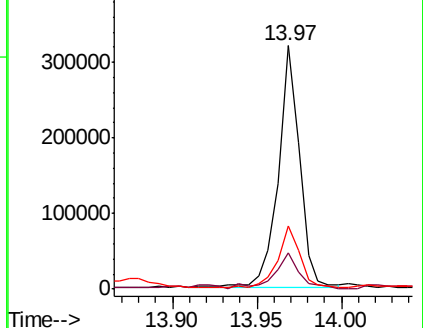
120 14.9 12.2 18.2

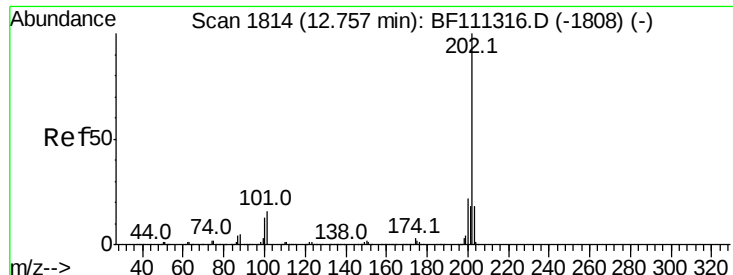
236 26.0 20.2 30.2

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





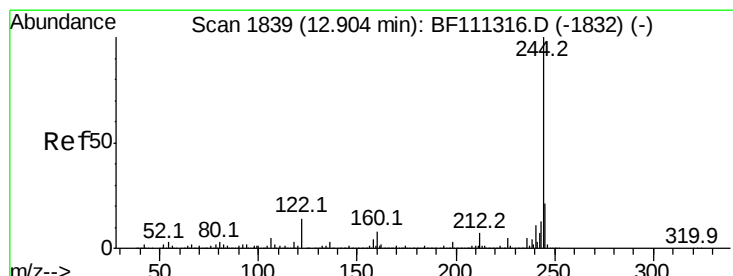
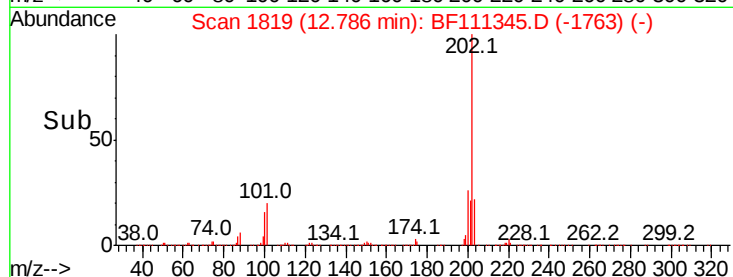
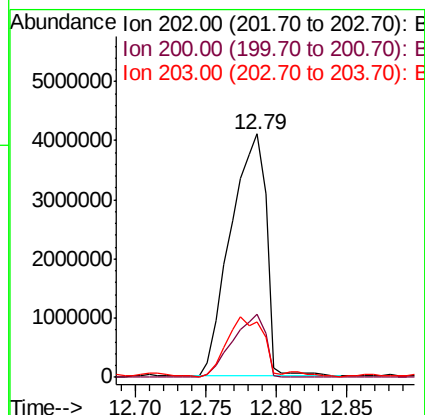
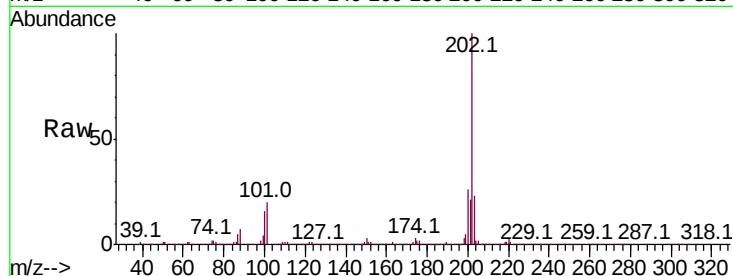
#78
Pvrene
Concen: 337.438 ng
RT: 12.79 min Scan# 1819
Delta R.T. 0.03 min
Lab File: BF111345.D
Acq: 13 Dec 2018 2:08

Instrument :
BNA_F
ClientSampleId :
SB-5(12.5-14.5)

Tot Ion	Ratio	Lower	Upper
202	100		
200	25.7	19.0	28.4
203	22.6	15.2	22.8

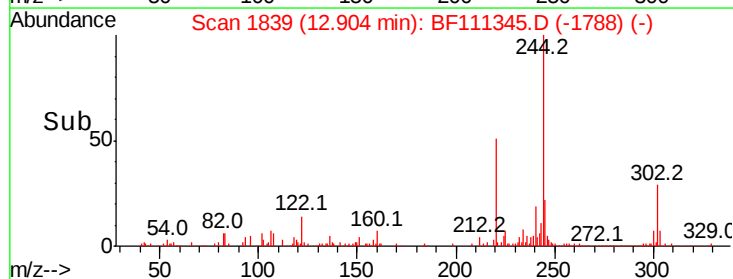
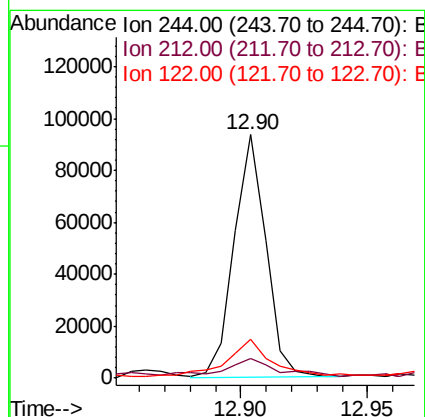
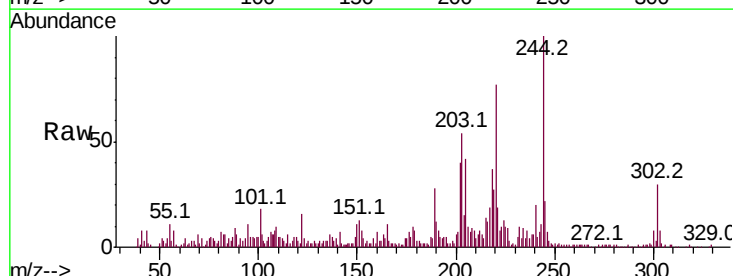
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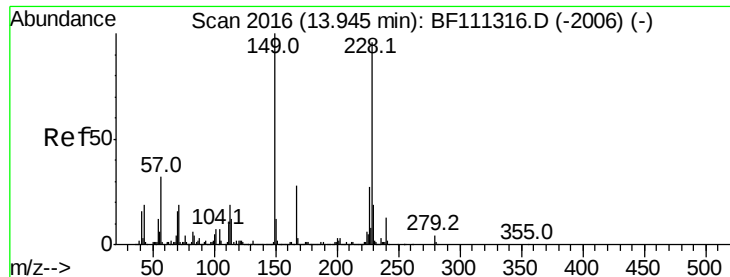
Sohil
12/13/2018 6:06:57 PM



#79
Terphenyl-d14
Concen: 6.482 ng
RT: 12.90 min Scan# 1839
Delta R.T. 0.00 min
Lab File: BF111345.D
Acq: 13 Dec 2018 2:08

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.0	5.7	8.5
122	15.9	13.1	19.7





#81

Benzo(a)anthracene

Concen: 219.819 ng

RT: 13.96 min Scan# 2019

Delta R.T. 0.02 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

Instrument :

BNA_F

ClientSampleId :

SB-5(12.5-14.5)

Tot Ion:228 Resp: 3395319

Ion Ratio Lower Upper

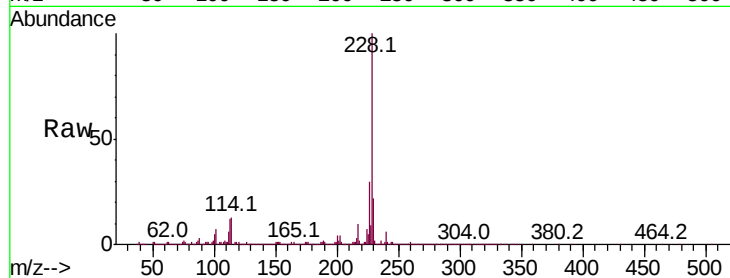
228 100

226 29.5 22.6 34.0

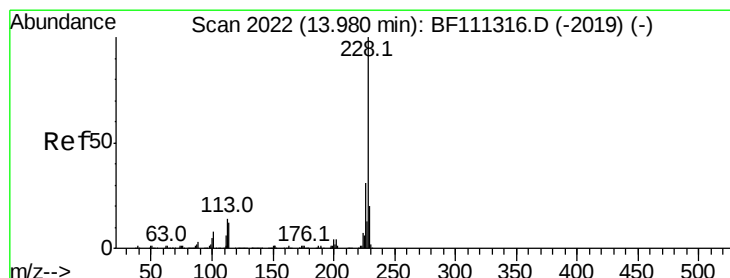
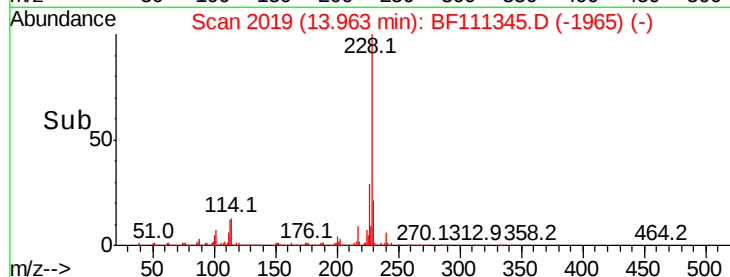
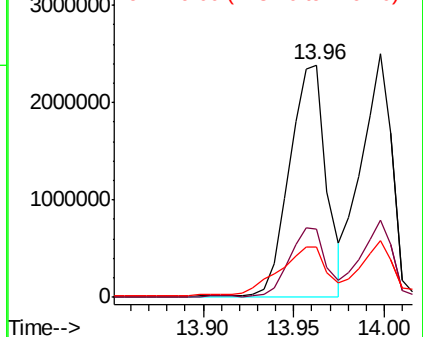
229 21.7 16.3 24.5

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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 186.206 ng

RT: 14.00 min Scan# 2025

Delta R.T. 0.02 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

Tgt Ion:228 Resp: 2934382

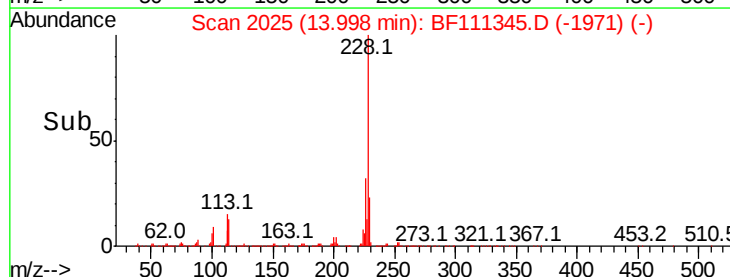
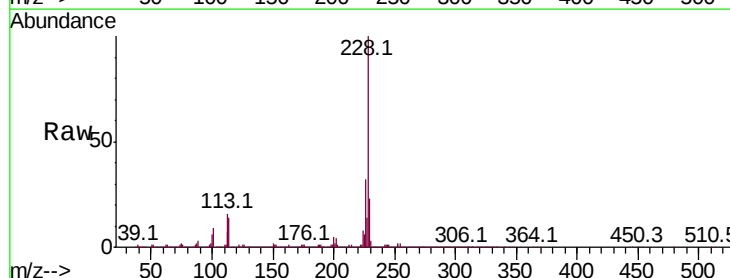
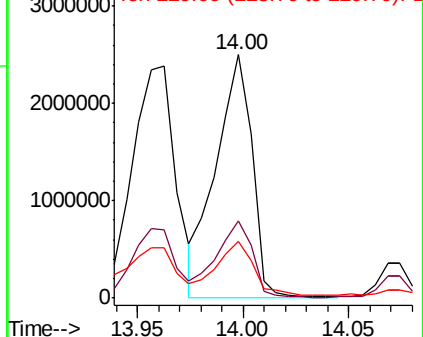
Ion Ratio Lower Upper

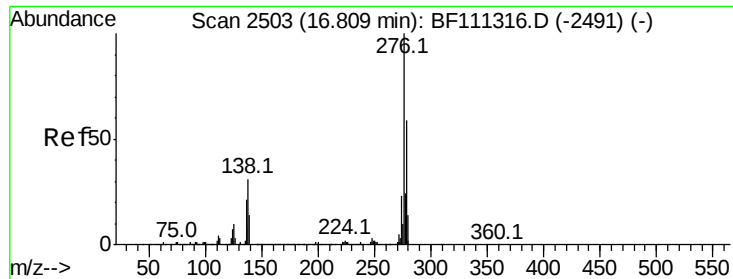
228 100

226 31.9 25.3 37.9

229 23.4 17.2 25.8

Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





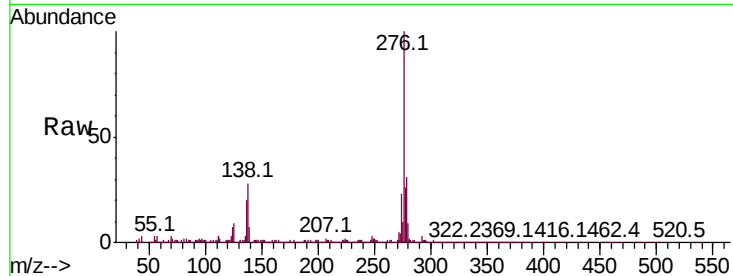
#86
Indeno(1,2,3-cd)pyrene
Concen: 105.277 ng
RT: 16.84 min Scan# 2508
Delta R.T. 0.03 min
Lab File: BF111345.D
Acq: 13 Dec 2018 2:08

Instrument :
BNA_F
ClientSampleId :
SB-5(12.5-14.5)

Tot Ion	Ratio	Lower	Upper
276	100		
138	29.2	27.8	41.6
277	25.6	20.1	30.1

Manual Integrations
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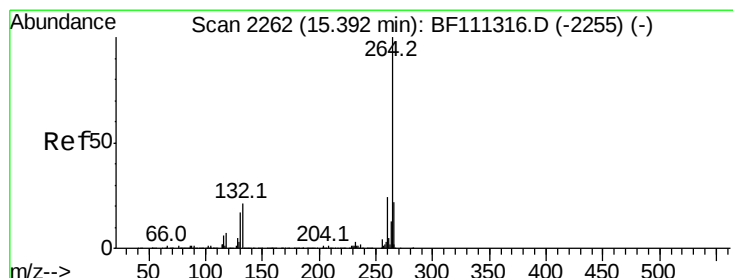
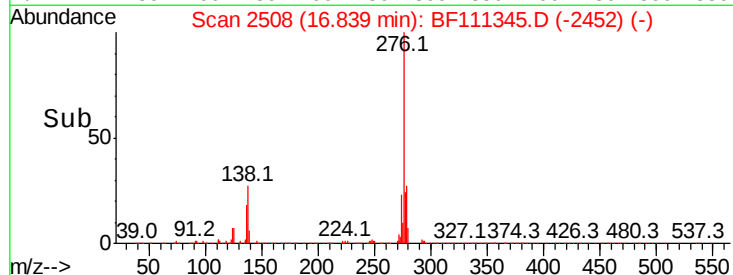
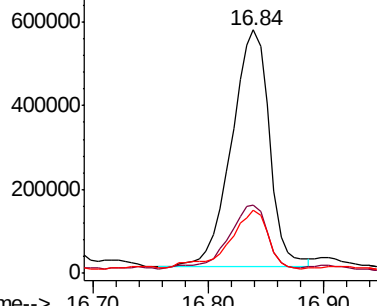


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.41 min Scan# 2265
Delta R.T. 0.02 min
Lab File: BF111345.D
Acq: 13 Dec 2018 2:08

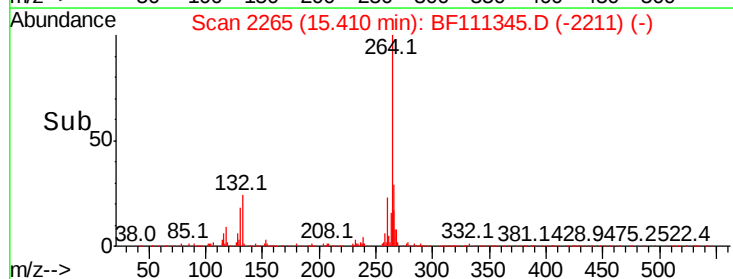
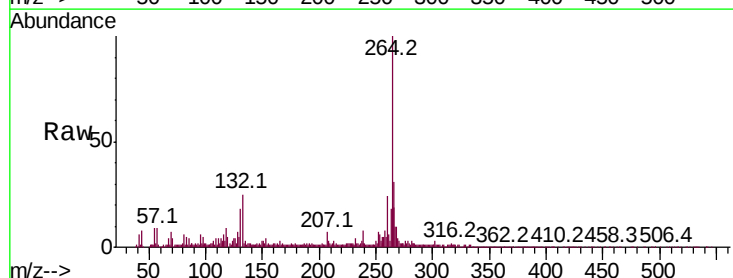
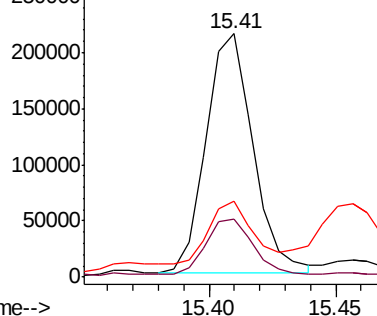
Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.3	27.5
265	31.1	17.7	26.5

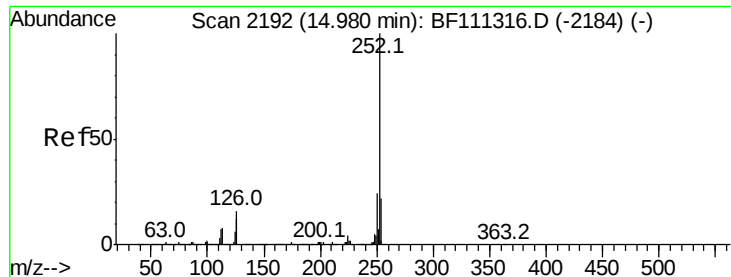
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





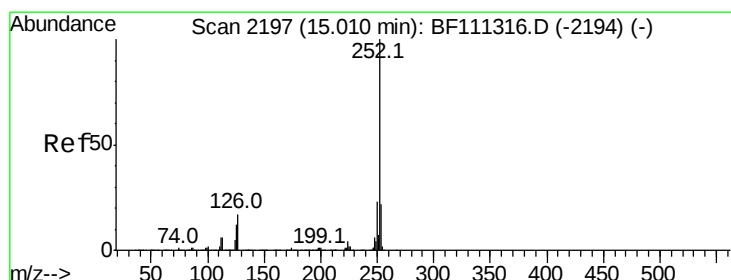
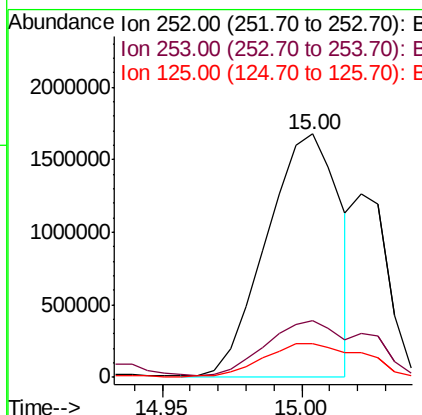
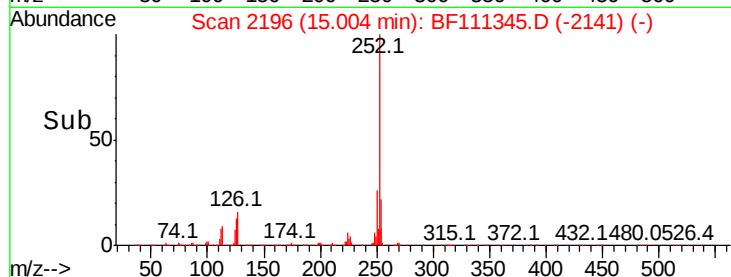
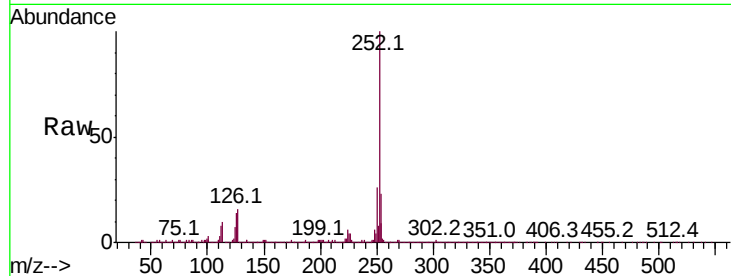
#88
Benzo(b)fluoranthene
Concen: 197.040 ng m
RT: 15.00 min Scan# 2196
Delta R.T. 0.02 min
Lab File: BF111345.D
Acq: 13 Dec 2018 2:08

Instrument :
BNA_F
ClientSampleId :
SB-5(12.5-14.5)

Tot Ion:252 Resp: 3089694
Ion Ratio Lower Upper
252 100
253 23.1 18.2 27.2
125 13.9 10.4 15.6

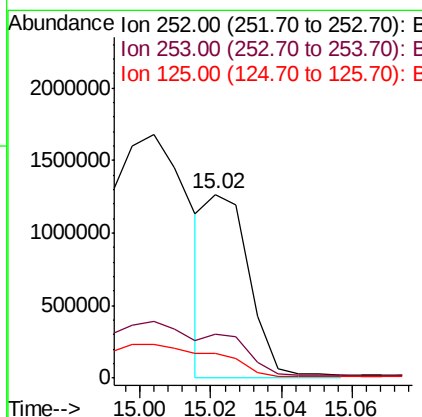
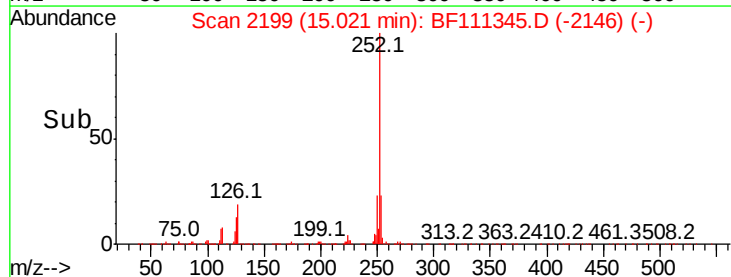
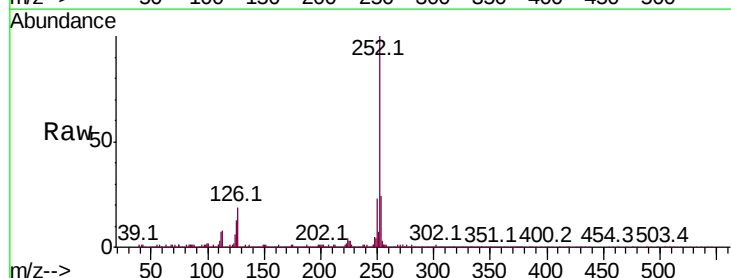
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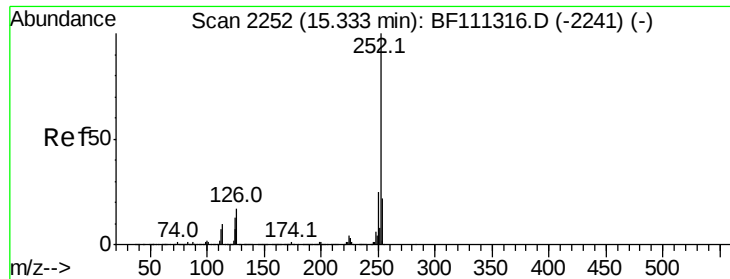
Sohil
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#89
Benzo(k)fluoranthene
Concen: 68.709 ng m
RT: 15.02 min Scan# 2199
Delta R.T. 0.01 min
Lab File: BF111345.D
Acq: 13 Dec 2018 2:08

Tgt Ion:252 Resp: 1075424
Ion Ratio Lower Upper
252 100
253 23.7 18.1 27.1
125 13.5 9.8 14.8





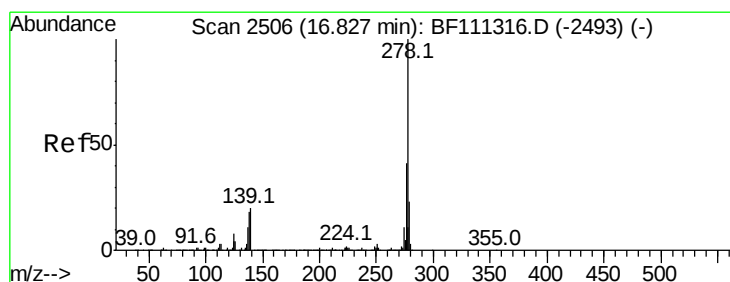
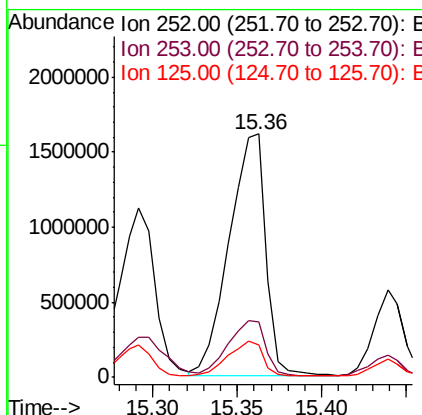
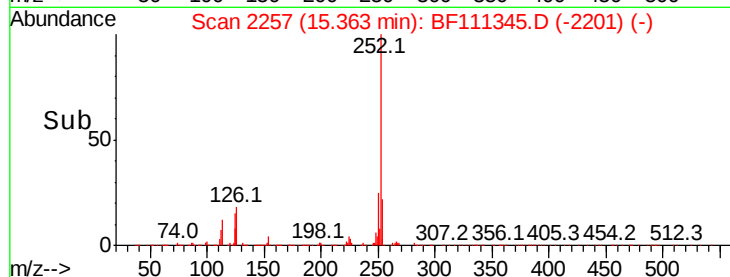
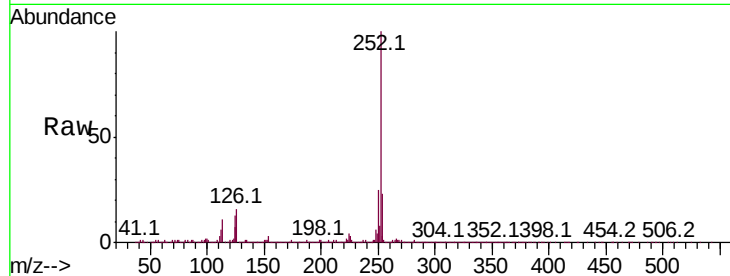
#90
Benzo(a)pyrene
Concen: 167.828 ng
RT: 15.36 min Scan# 2257
Delta R.T. 0.03 min
Lab File: BF111345.D
Acq: 13 Dec 2018 2:08

Instrument :
BNA_F
ClientSampleId :
SB-5(12.5-14.5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.8	26.8
125	13.4	12.3	18.5

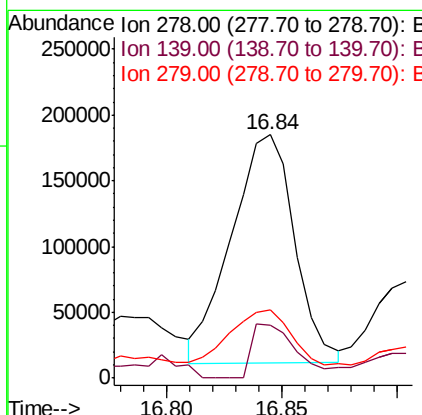
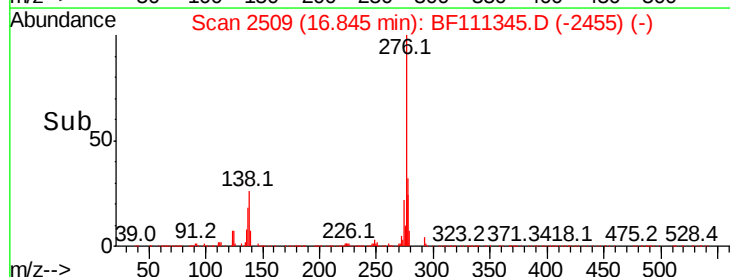
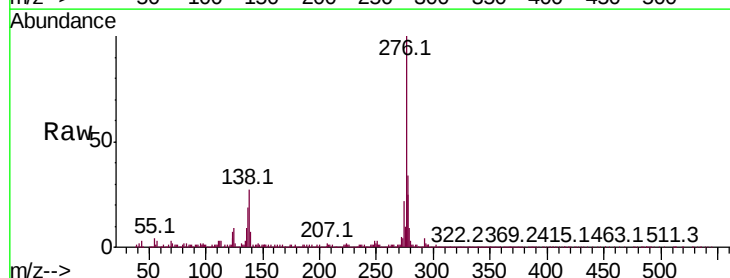
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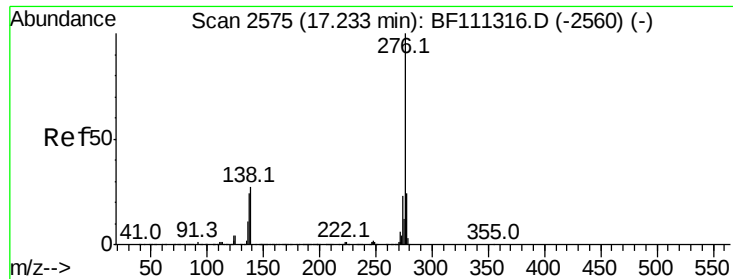
Sohil
12/13/2018 6:06:57 PM



#91
Dibenzo(a,h)anthracene
Concen: 27.283 ng
RT: 16.84 min Scan# 2509
Delta R.T. 0.02 min
Lab File: BF111345.D
Acq: 13 Dec 2018 2:08

Tgt Ion	Ratio	Lower	Upper
278	100		
139	21.5	18.2	27.4
279	27.8	19.0	28.6





#92

Benzo(a,h,i)perylene

Concen: 103.563 ng

RT: 17.27 min Scan# 2582

Delta R.T. 0.04 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

Instrument :

BNA_F

ClientSampleId :

SB-5(12.5-14.5)

Tot Ion:276 Resp: 1257732

Ion Ratio Lower Upper

276 100

277 24.5 19.2 28.8

138 26.3 24.9 37.3

Manual Integrations

APPROVED

Sohil

12/13/2018 6:06:57 PM

