

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041019\
 Data File : BF113706.D
 Acq On : 10 Apr 2019 19:54
 Operator : JU/SJ
 Sample : K2200-01 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EO-01-040919-A

Manual Integrations
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Sohil
 4/11/2019 2:39:46 PM

Quant Time: Apr 11 03:51:19 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	6.67	152	133204	20.00	ng	-0.01
21) Naphthalene-d8	7.96	136	482699	20.00	ng	-0.01
39) Acenaphthene-d10	9.70	164	199819	20.00	ng	-0.02
64) Phenanthrene-d10	11.19	188	328754	20.00	ng	-0.02
76) Chrysene-d12	13.83	240	340187	20.00	ng	-0.02
87) Perylene-d12	15.23	264	260400	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.29	112	377578	48.34	ng	0.00
7) Phenol-d6	6.33	99	509516	52.92	ng	-0.01
23) Nitrobenzene-d5	7.25	82	266170	32.30	ng	-0.01
42) 2,4,6-Tribromophenol	10.50	330	99120	41.29	ng	-0.02
45) 2-Fluorobiphenyl	9.03	172	517309	41.68	ng	-0.02
79) Terphenyl-d14	12.77	244	460184	27.54	ng	-0.02

Target Compounds				Qvalue		
31) Naphthalene	7.98	128	61407	2.626	ng	97
37) 2-Methylnaphthalene	8.67	142	32365	2.104	ng	96
49) Acenaphthylene	9.57	152	50891	2.507	ng	97
50) Dimethylphthalate	9.43	163	44441	3.017	ng	# 99
52) Acenaphthene	9.74	154	36779	3.165	ng	98
55) Dibenzofuran	9.92	168	51585	3.026	ng	# 95
58) Fluorene	10.26	166	72319	5.364	ng	99
71) Phenanthrene	11.22	178	471880	28.886	ng	98
72) Anthracene	11.27	178	164656	9.907	ng	99
73) Carbazole	11.43	167	40065	2.577	ng	98
75) Fluoranthene	12.40	202	789140	45.080	ng	98
78) Pyrene	12.63	202	735009	28.396	ng	99
81) Benzo(a)anthracene	13.82	228	427733	21.797	ng	97
83) Chrysene	13.85	228	354548	17.823	ng	98
86) Indeno(1,2,3-cd)pyrene	16.60	276	141305	7.693	ng	95
88) Benzo(b)fluoranthene	14.84	252	412810m	25.898	ng	
89) Benzo(k)fluoranthene	14.86	252	124500m	8.703	ng	
90) Benzo(a)pyrene	15.18	252	277457	19.589	ng	97
91) Dibenzo(a,h)anthracene	16.60	278	37200	2.809	ng	# 74
92) Benzo(a,h,i)perylene	17.01	276	134683	9.962	ng	96

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

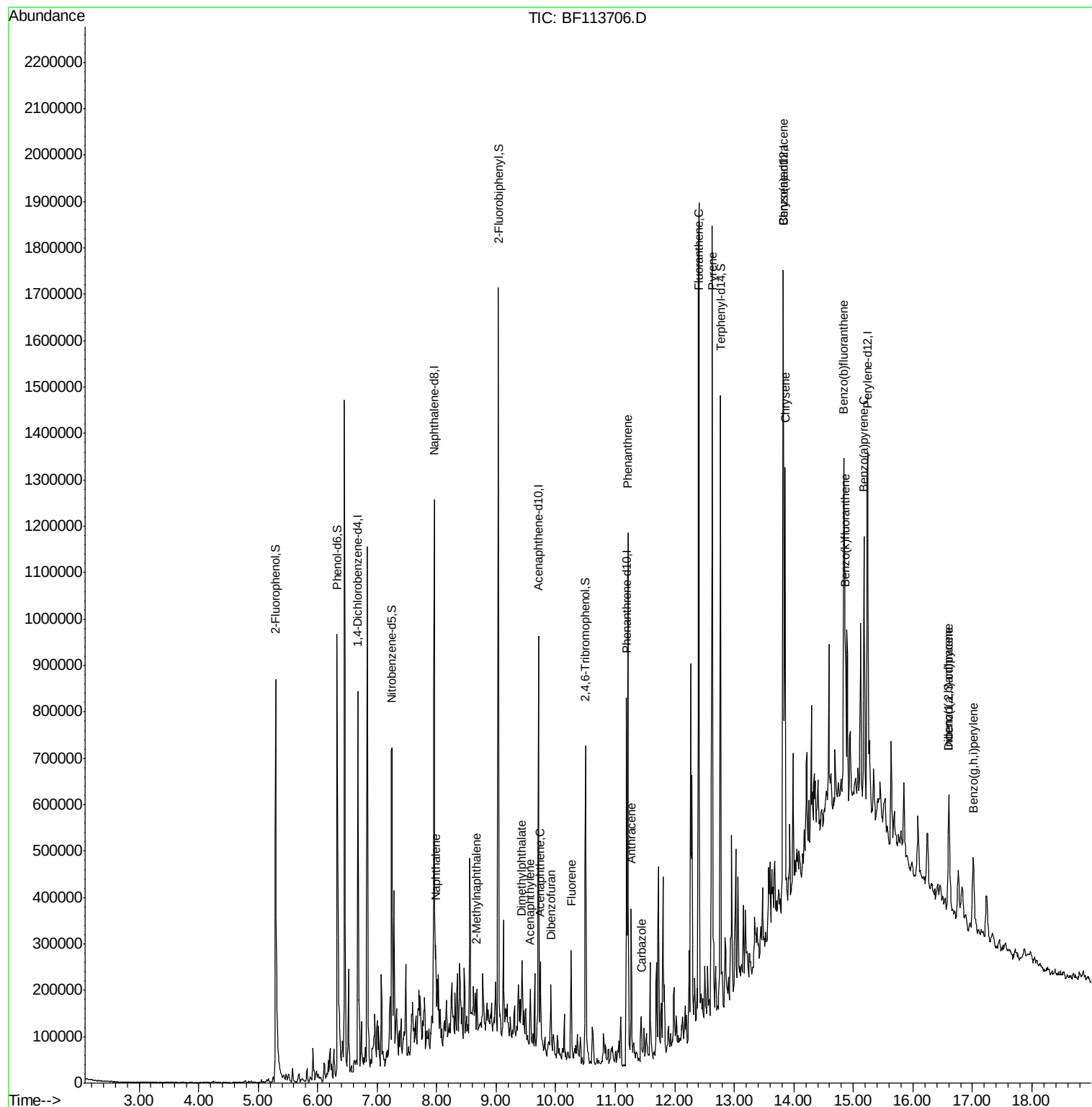
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041019\
Data File : BF113706.D
Acq On : 10 Apr 2019 19:54
Operator : JU/SJ
Sample : K2200-01 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

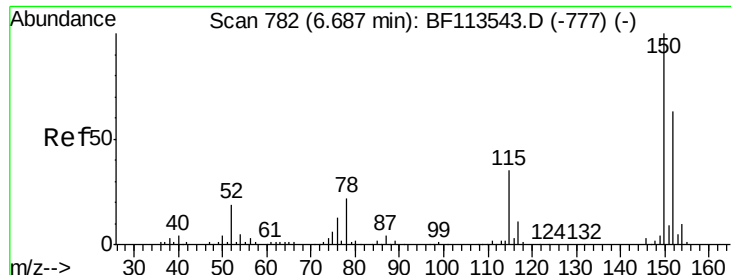
Instrument :
BNA_F
ClientSampleId :
EO-01-040919-A

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Quant Time: Apr 11 03:51:19 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





#1

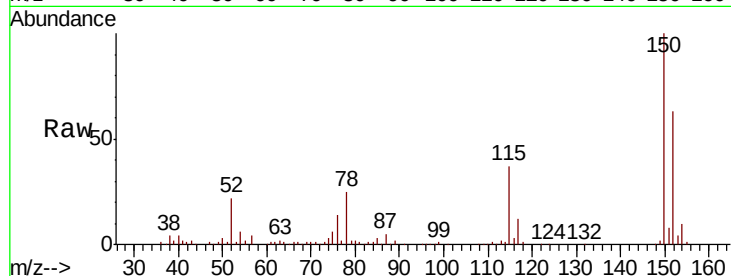
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.67 min Scan# 780
Delta R.T. -0.01 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

Instrument :
BNA_F
ClientSampleId :
EO-01-040919-A

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.6	124.7	187.1
115	59.0	46.0	69.0

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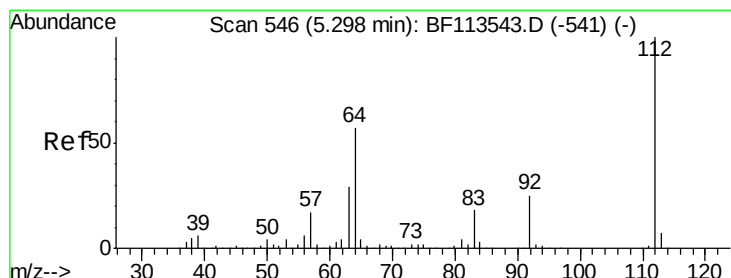
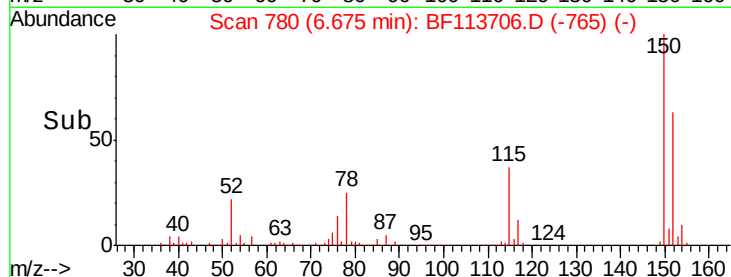
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E

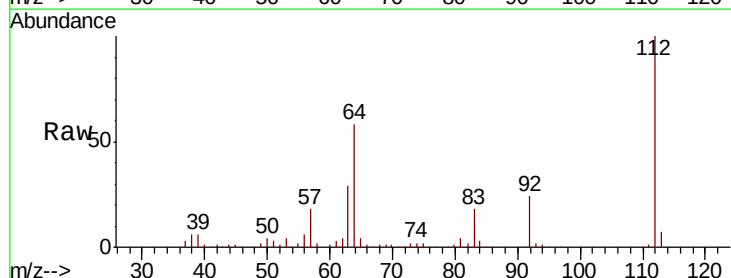
Time-->



#5

2-Fluorophenol
Concen: 48.336 ng
RT: 5.29 min Scan# 545
Delta R.T. -0.01 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.1	49.2	73.8
63	29.2	24.9	37.3



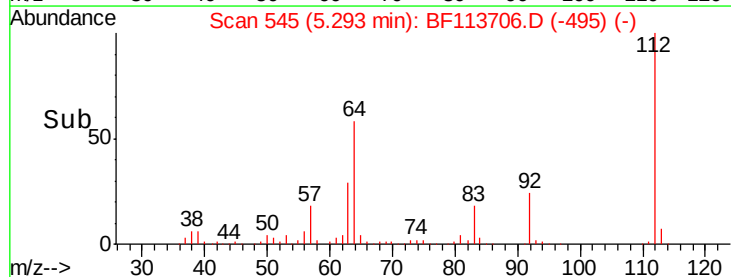
Abundance

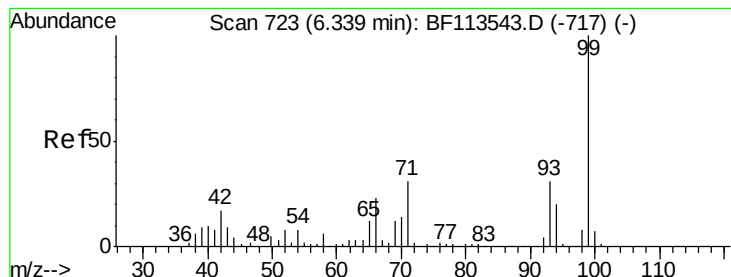
Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1

Time-->





#7

Phenol-d6

Concen: 52.922 ng

RT: 6.33 min Scan# 721

Delta R.T. -0.01 min

Lab File: BF113706.D

Acq: 10 Apr 2019 19:54

Instrument :

BNA_F

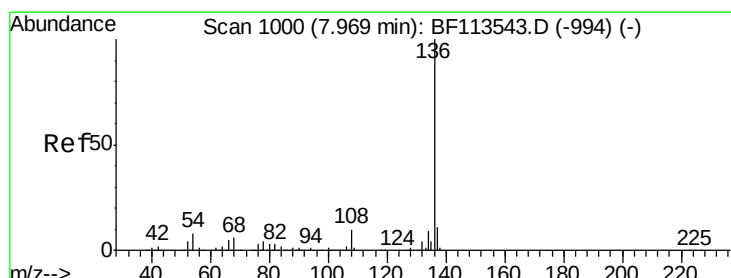
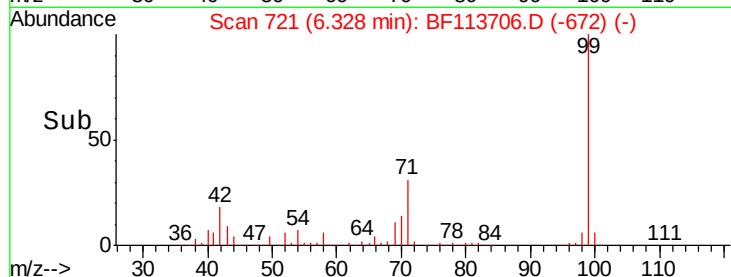
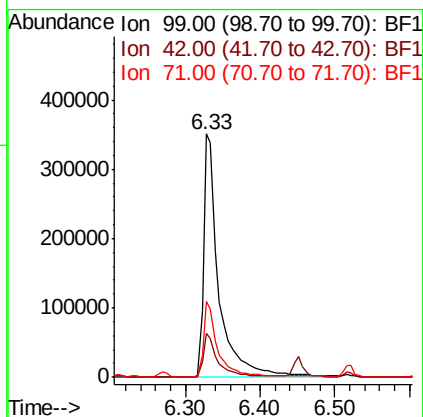
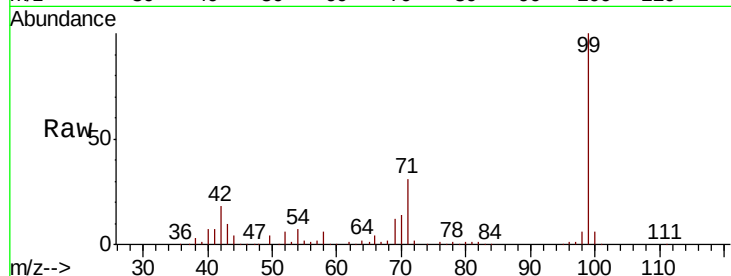
ClientSampleId :

EO-01-040919-A

Tot Ion:	99	Resp:	509516
Ion Ratio	Lower	Upper	
99	100		
42	18.0	14.8	22.2
71	31.2	24.9	37.3

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#21

Naphthalene-d8

Concen: 20.000 ng

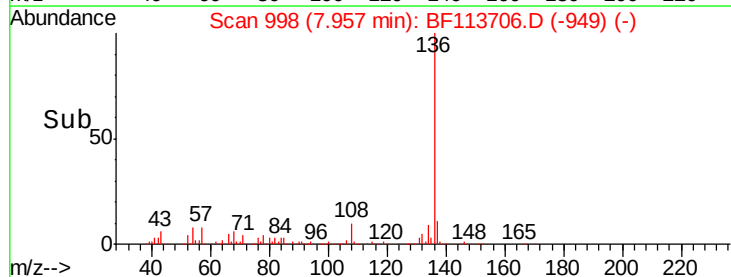
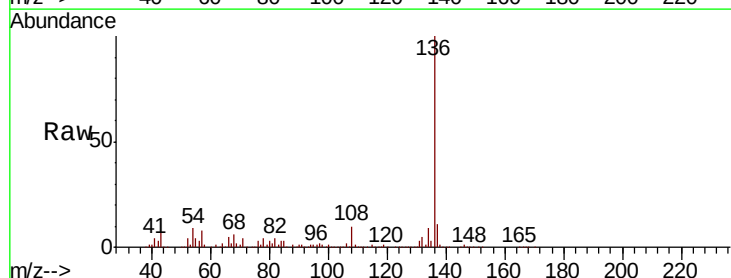
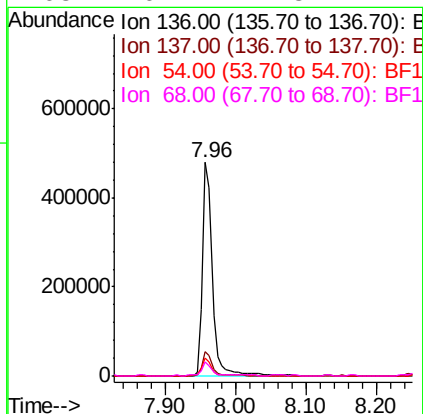
RT: 7.96 min Scan# 998

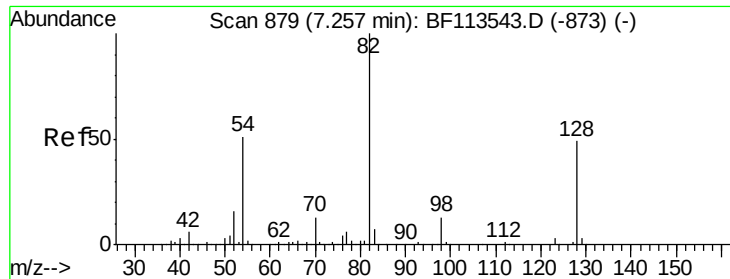
Delta R.T. -0.01 min

Lab File: BF113706.D

Acq: 10 Apr 2019 19:54

Tgt Ion:	136	Resp:	482699
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.9	13.3
54	8.6	7.0	10.6
68	6.4	4.8	7.2





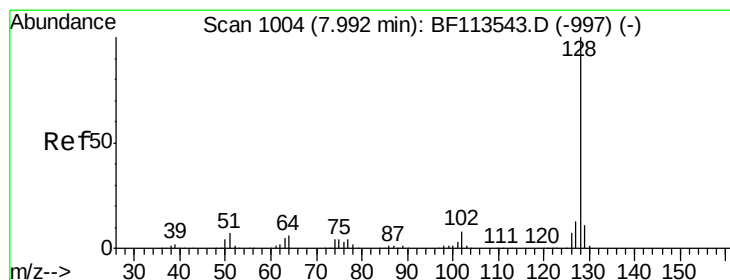
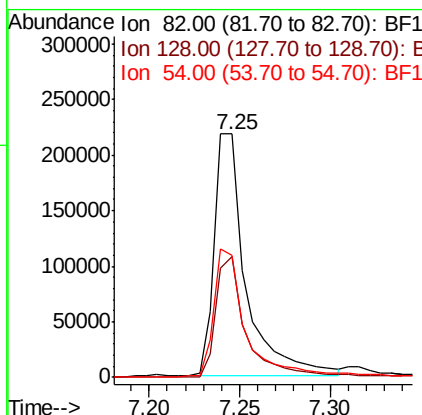
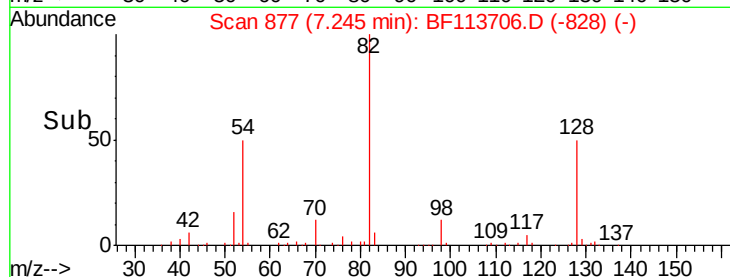
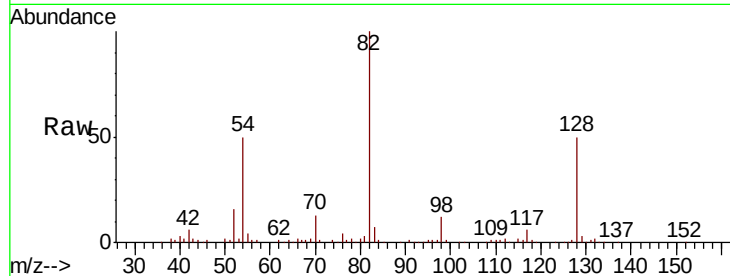
#23
Nitrobenzene-d5
Concen: 32.300 ng
RT: 7.25 min Scan# 877
Delta R.T. -0.01 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

Instrument :
BNA_F
ClientSampleId :
EO-01-040919-A

Tot Ion	82	Resp	266170
Ion Ratio	Lower	Upper	
82	100		
128	49.8	36.5	54.7
54	49.9	42.2	63.2

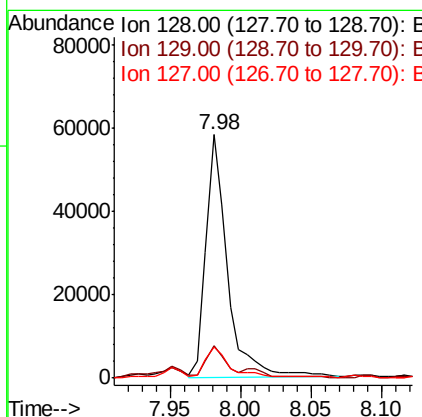
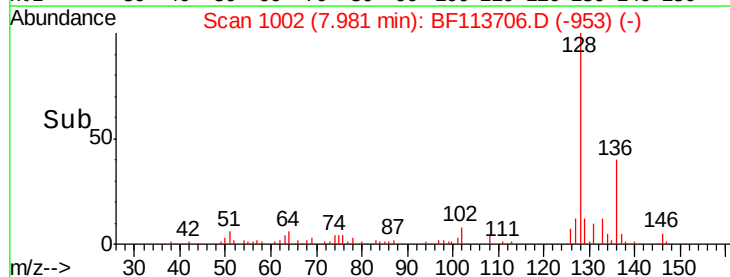
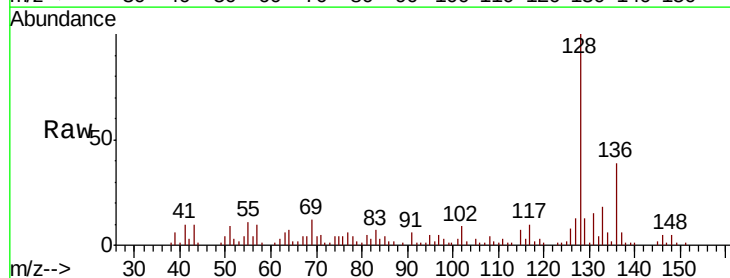
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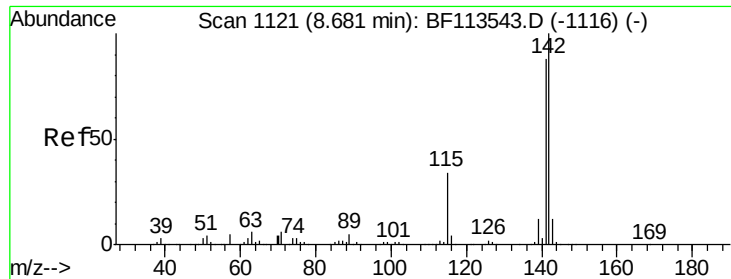
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#31
Naphthalene
Concen: 2.626 ng
RT: 7.98 min Scan# 1002
Delta R.T. -0.01 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

Tgt Ion	128	Resp	61407
Ion Ratio	Lower	Upper	
128	100		
129	13.3	9.3	13.9
127	12.9	10.9	16.3





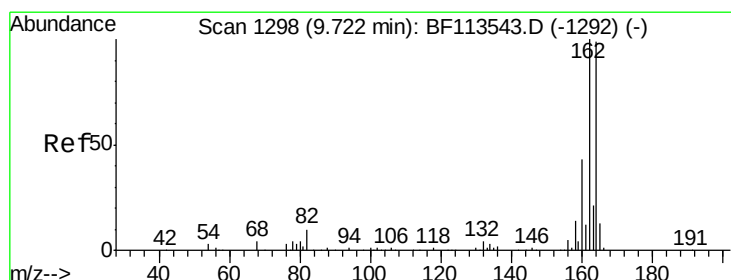
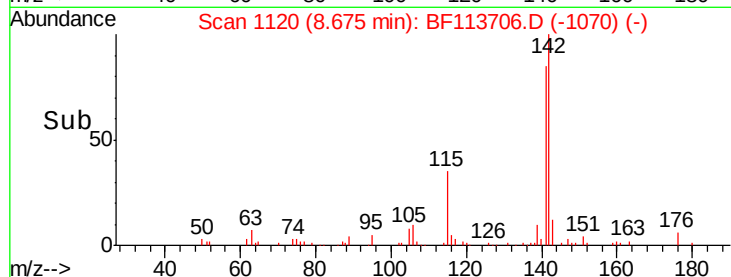
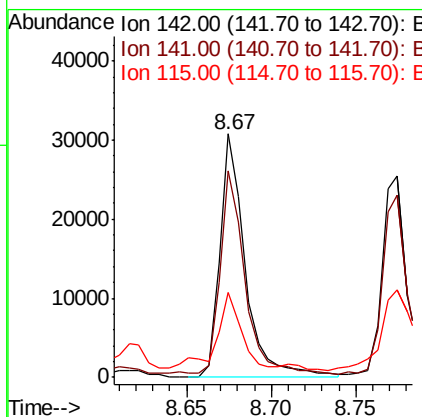
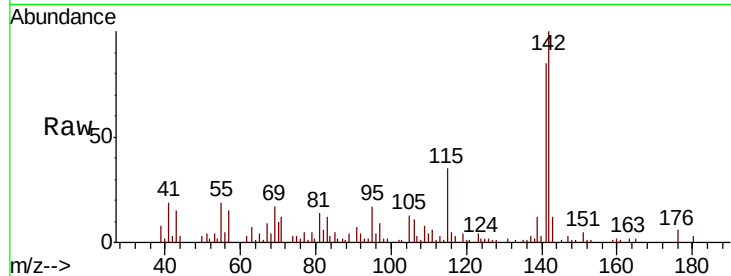
#37
2-Methylnaphthalene
Concen: 2.104 ng
RT: 8.67 min Scan# 1120
Delta R.T. -0.01 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

Instrument :
BNA_F
ClientSampleId :
EO-01-040919-A

Tot Ion	Ratio	Lower	Upper
142	100		
141	84.6	71.0	106.6
115	34.7	26.6	39.8

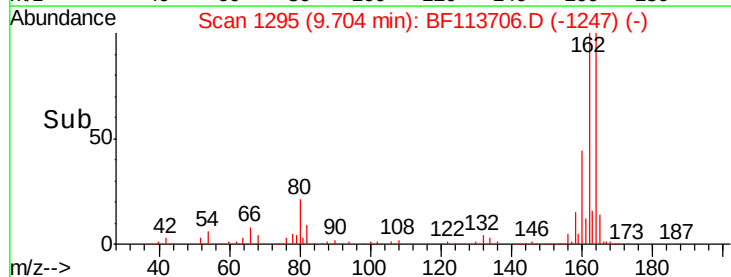
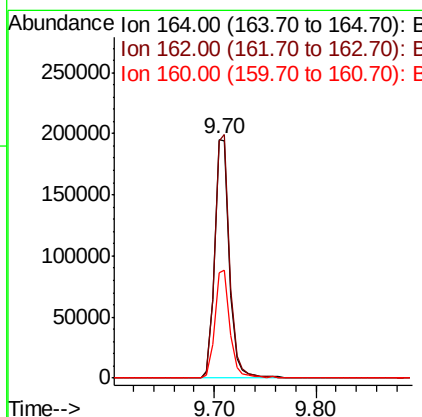
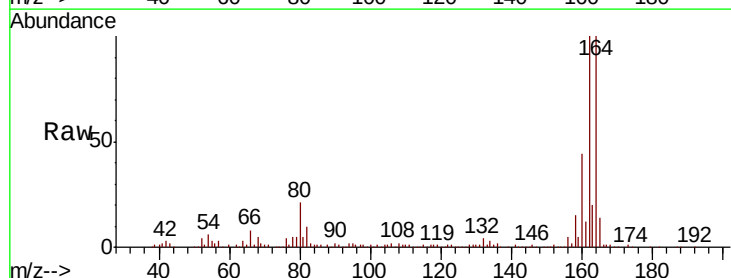
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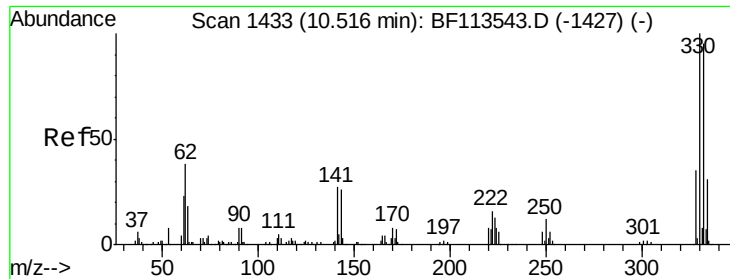
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.70 min Scan# 1295
Delta R.T. -0.02 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

Tgt Ion	Ratio	Lower	Upper
164	100		
162	99.7	81.8	122.6
160	44.2	36.4	54.6





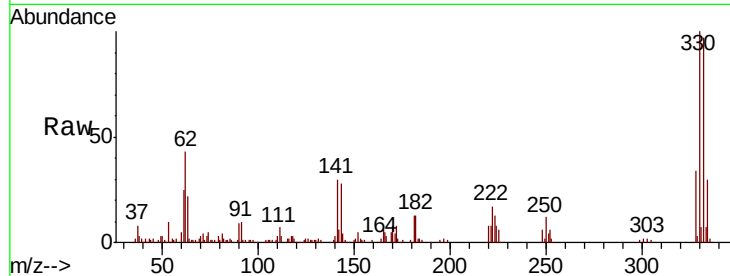
#42
 2,4,6-Tribromophenol
 Concen: 41.295 ng
 RT: 10.50 min Scan# 1430
 Delta R.T. -0.02 min
 Lab File: BF113706.D
 Acq: 10 Apr 2019 19:54

Instrument :
 BNA_F
 ClientSampleId :
 EO-01-040919-A

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.1	77.8	116.6
141	28.5	22.7	34.1

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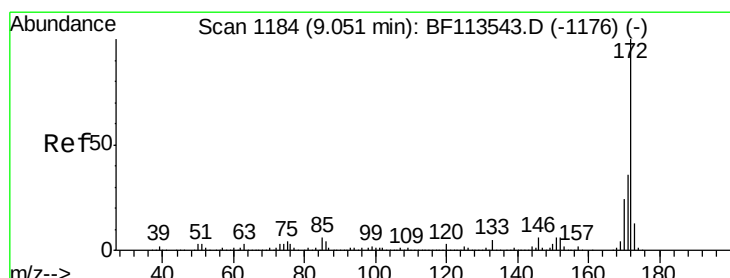
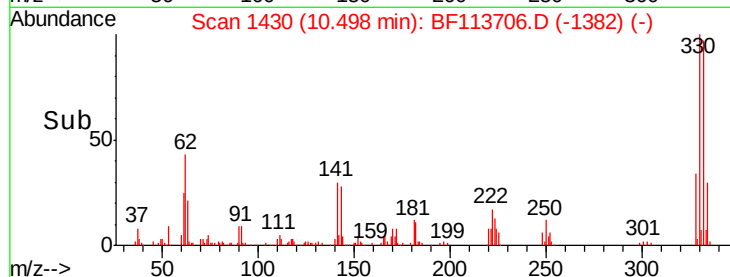
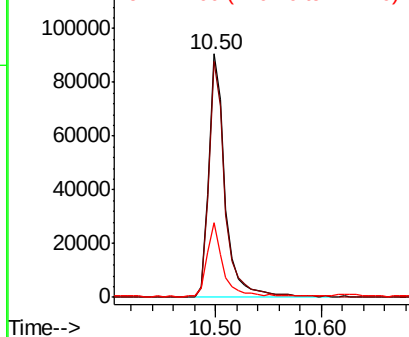


Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 41.678 ng
 RT: 9.03 min Scan# 1181
 Delta R.T. -0.02 min
 Lab File: BF113706.D
 Acq: 10 Apr 2019 19:54

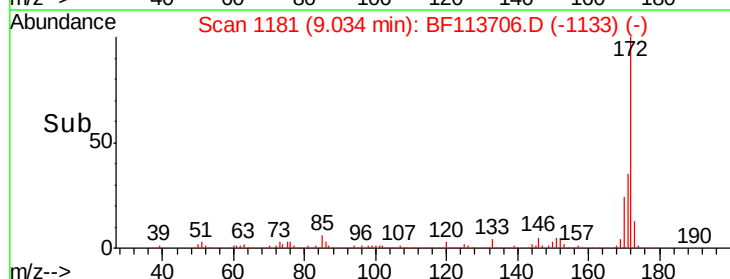
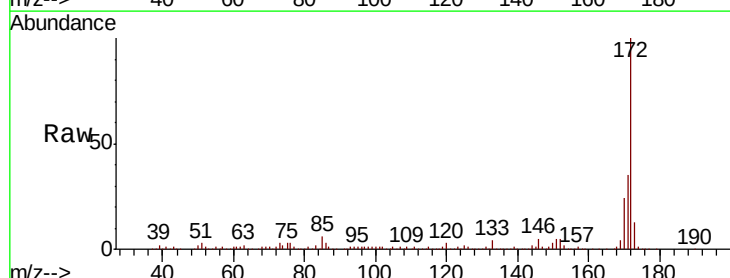
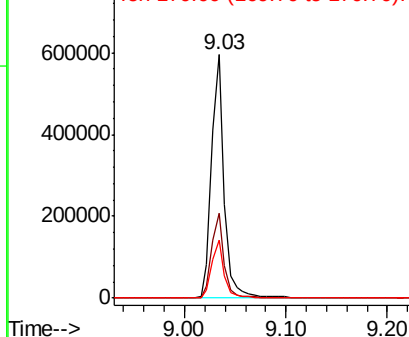
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.8	29.0	43.6
170	23.6	19.5	29.3

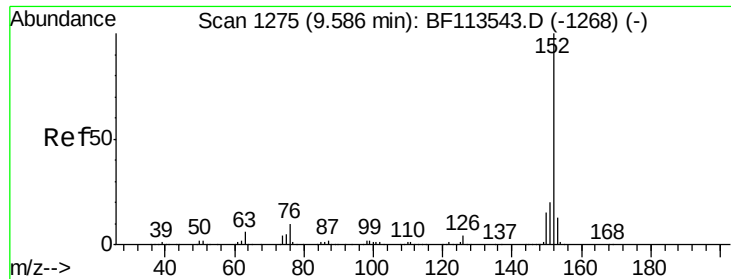
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#49

Acenaphthylene

Concen: 2.507 ng

RT: 9.57 min Scan# 1272

Delta R.T. -0.02 min

Lab File: BF113706.D

Acq: 10 Apr 2019 19:54

Instrument :

BNA_F

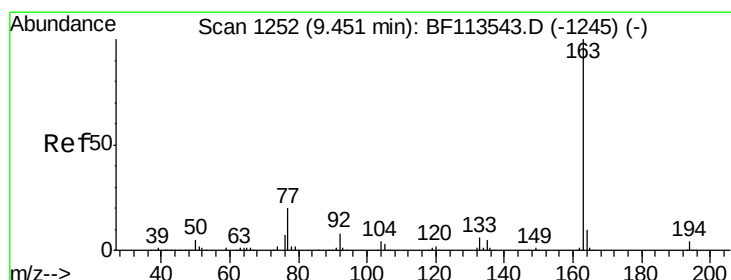
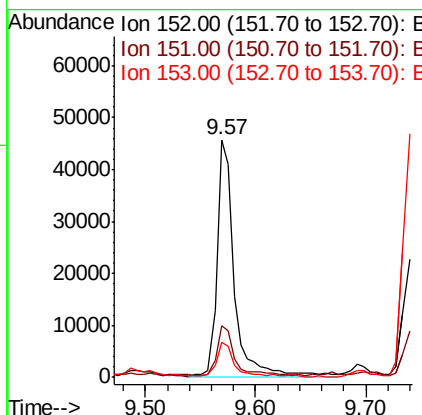
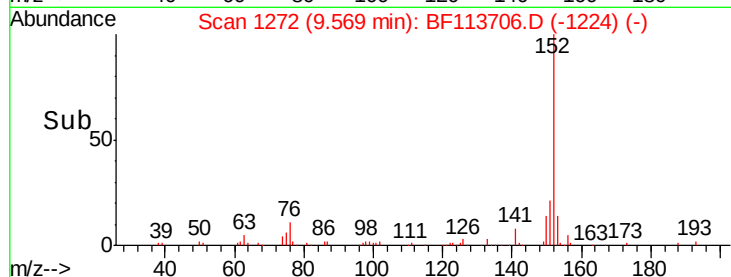
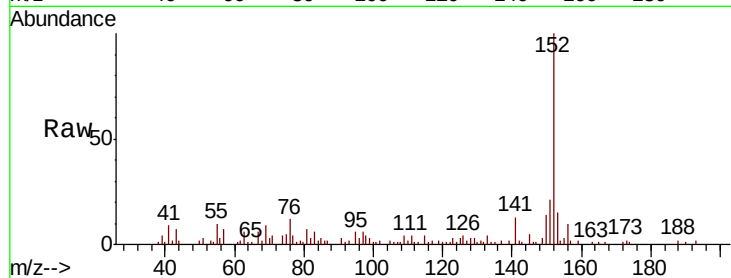
ClientSampleId :

EO-01-040919-A

Tot Ion:	152	Resp:	50891
Ion Ratio	Lower	Upper	
152	100		
151	21.5	16.2	24.4
153	14.8	11.0	16.6

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#50

Dimethylphthalate

Concen: 3.017 ng

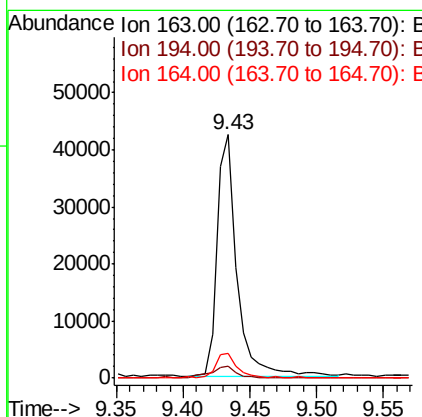
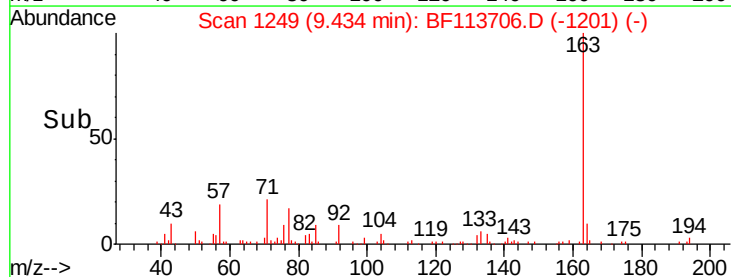
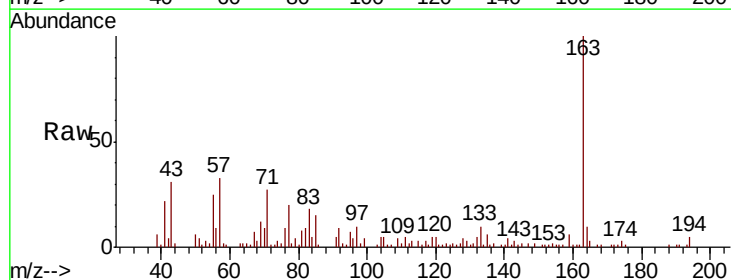
RT: 9.43 min Scan# 1249

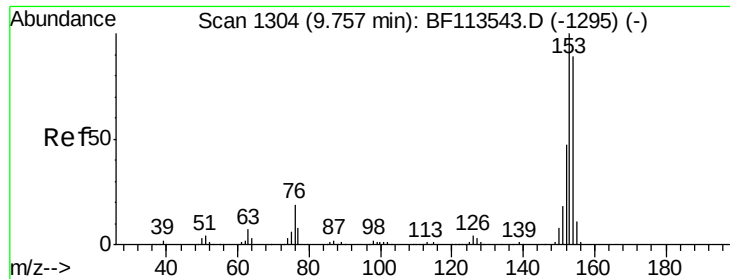
Delta R.T. -0.02 min

Lab File: BF113706.D

Acq: 10 Apr 2019 19:54

Tgt Ion:	163	Resp:	44441
Ion Ratio	Lower	Upper	
163	100		
194	4.7	3.0	4.6#
164	10.4	8.1	12.1





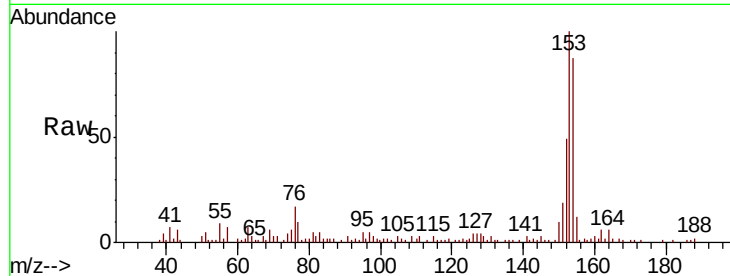
#52
Acenaphthene
Concen: 3.165 ng
RT: 9.74 min Scan# 1301
Delta R.T. -0.02 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

Instrument :
BNA_F
ClientSampleId :
EO-01-040919-A

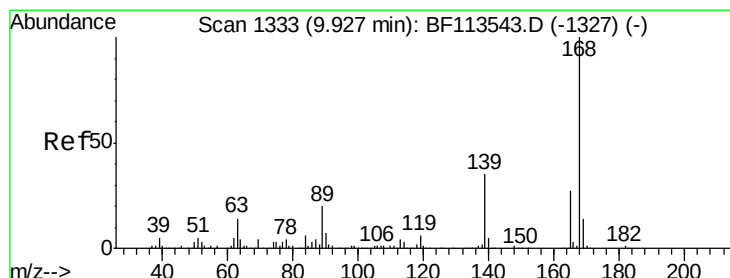
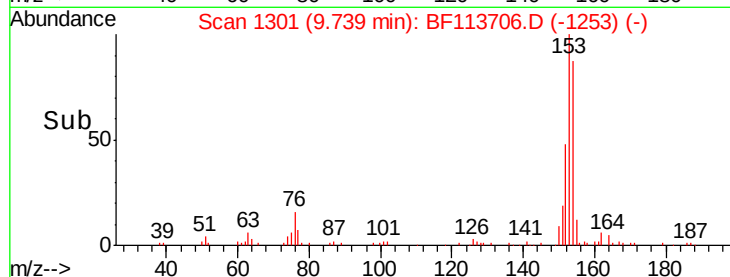
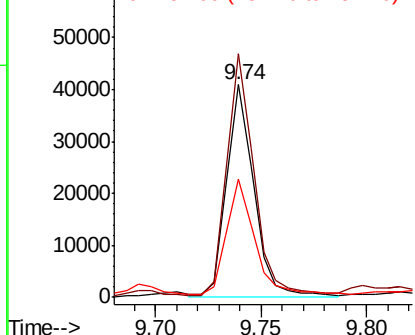
Tot Ion	Ratio	Lower	Upper
154	100		
153	114.4	89.5	134.3
152	55.7	43.3	64.9

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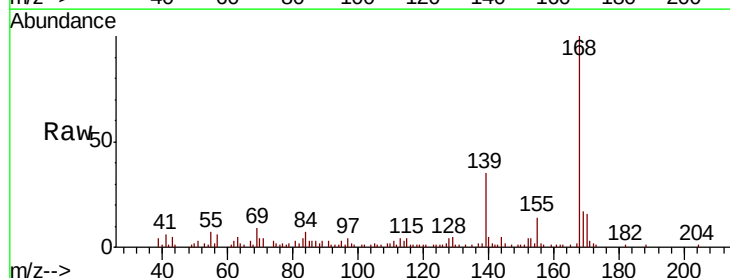


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

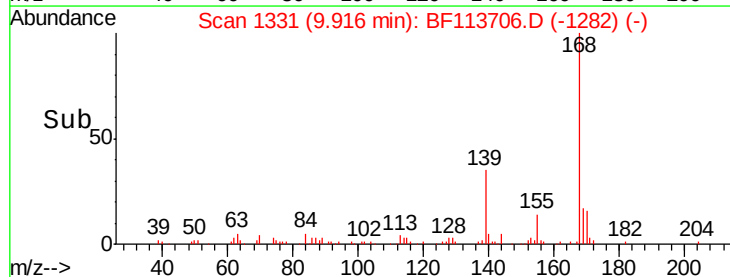
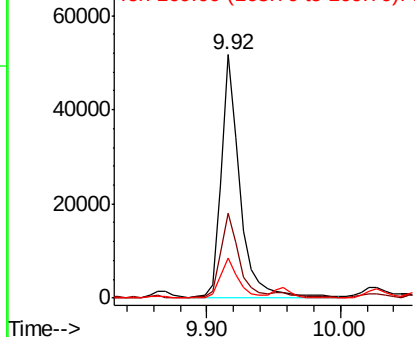


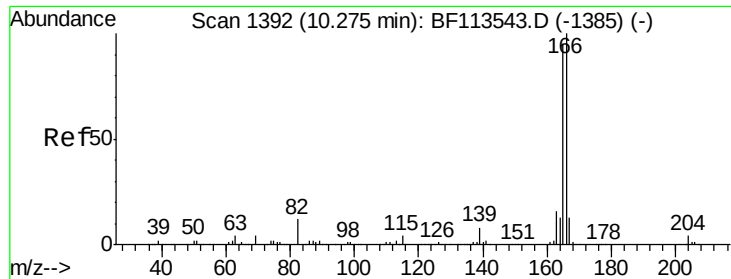
#55
Dibenzofuran
Concen: 3.026 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

Tgt Ion	Ratio	Lower	Upper
168	100		
139	35.1	29.7	44.5
169	16.6	10.7	16.1#



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





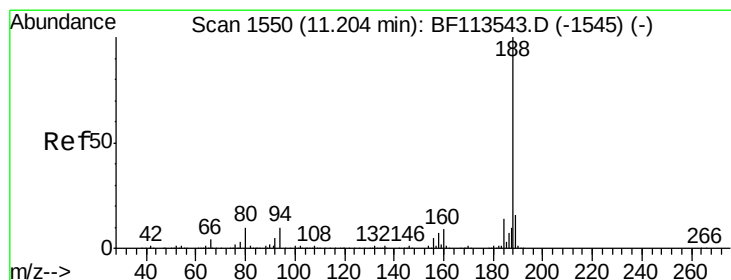
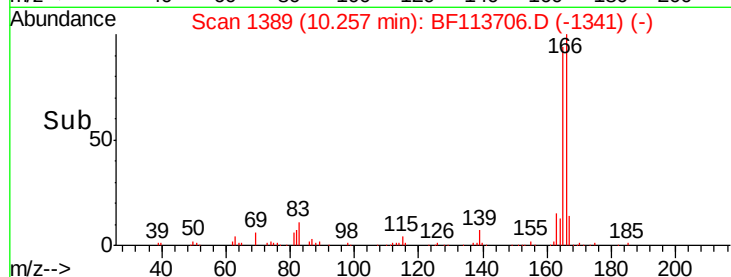
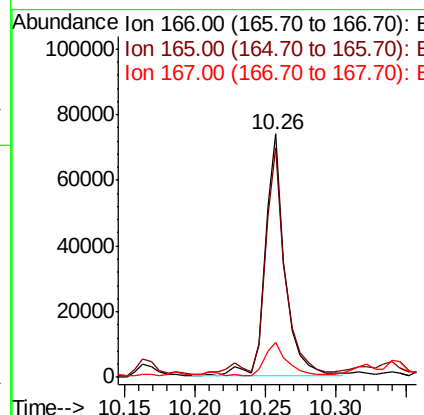
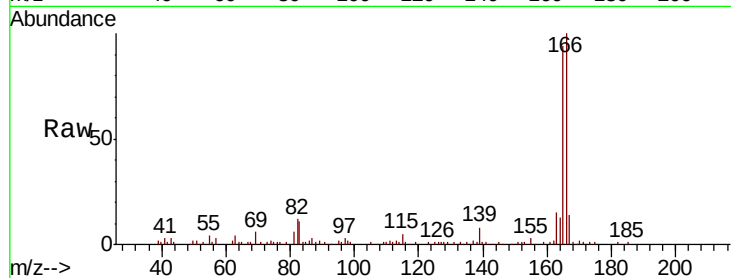
#58
 Fluorene
 Concen: 5.364 ng
 RT: 10.26 min Scan# 1389
 Delta R.T. -0.02 min
 Lab File: BF113706.D
 Acq: 10 Apr 2019 19:54

Instrument :
 BNA_F
 ClientSampleId :
 EO-01-040919-A

Tot Ion	Ratio	Lower	Upper
166	100		
165	94.2	76.2	114.2
167	14.4	10.7	16.1

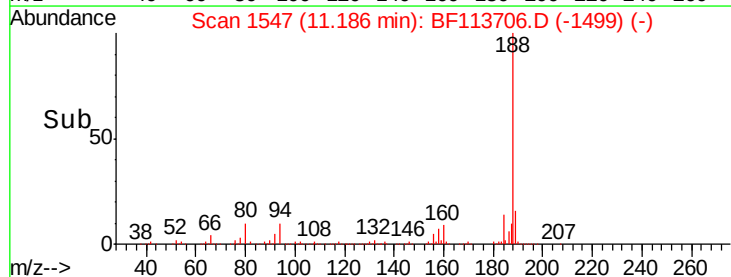
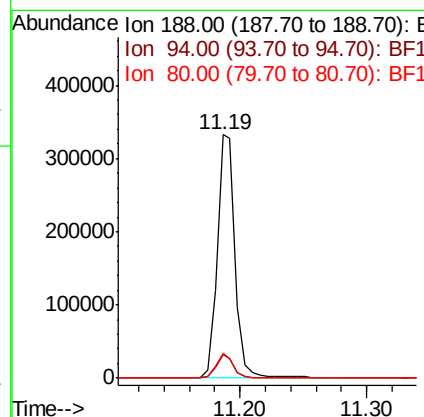
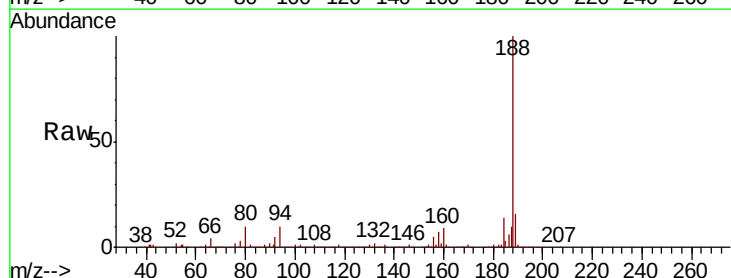
Manual Integrations
 APPROVED

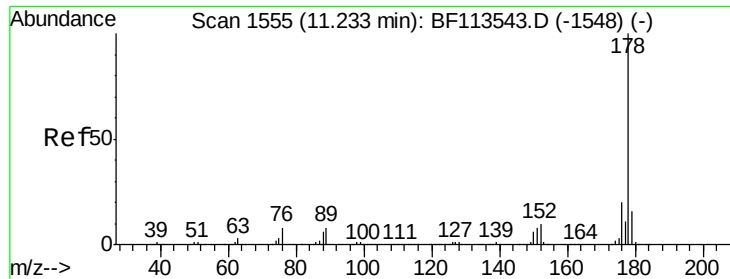
Sohil
 4/11/2019 2:39:46 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.19 min Scan# 1547
 Delta R.T. -0.02 min
 Lab File: BF113706.D
 Acq: 10 Apr 2019 19:54

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.9	7.0	10.6
80	10.0	7.7	11.5





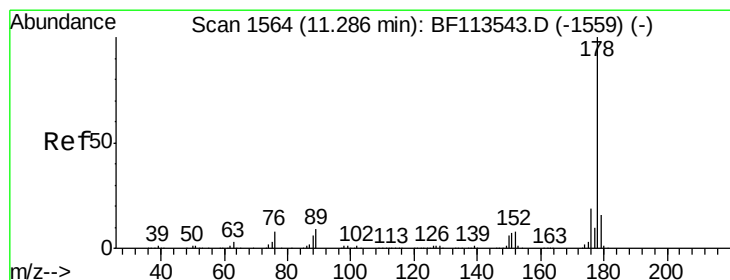
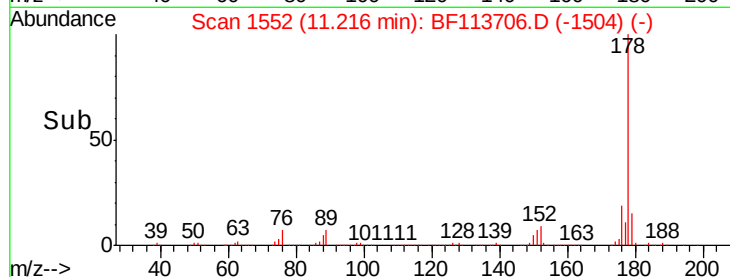
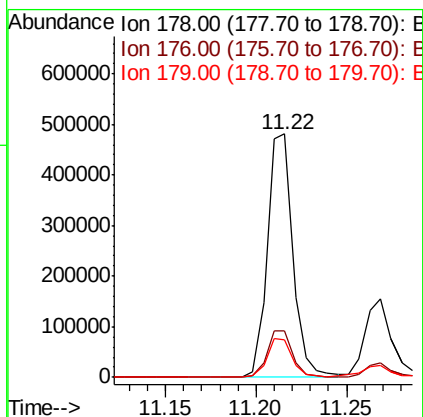
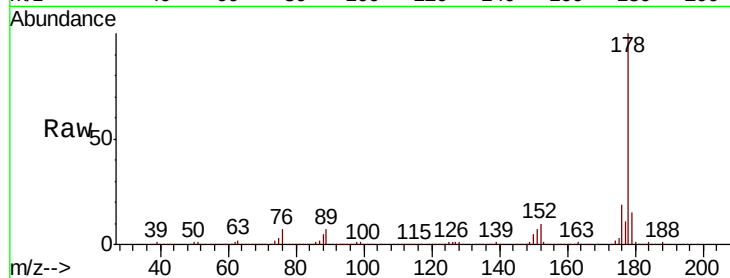
#71
Phenanthrene
Concen: 28.886 ng
RT: 11.22 min Scan# 1552
Delta R.T. -0.02 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

Instrument :
BNA_F
ClientSampleId :
EO-01-040919-A

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.2	16.2	24.2
179	15.4	12.7	19.1

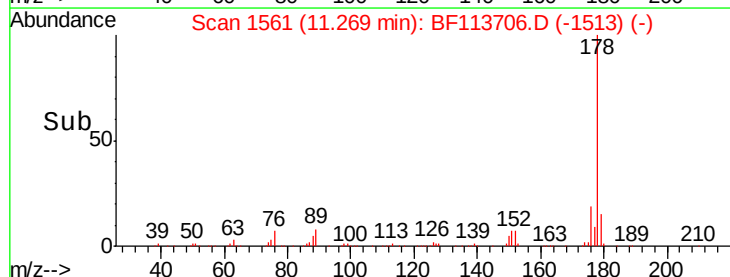
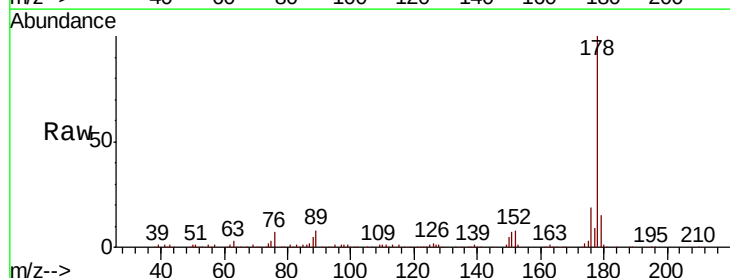
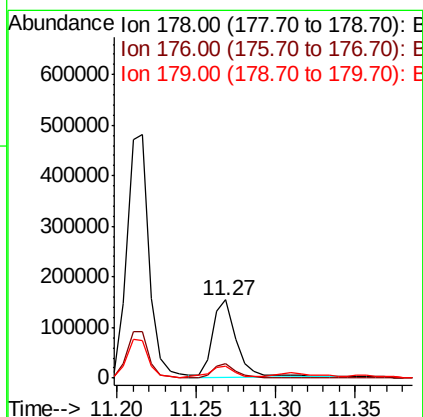
Manual Integrations
APPROVED

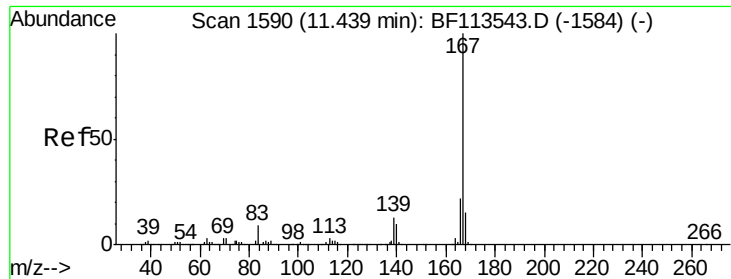
Sohil
4/11/2019 2:39:46 PM



#72
Anthracene
Concen: 9.907 ng
RT: 11.27 min Scan# 1561
Delta R.T. -0.02 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.2
179	15.5	12.8	19.2





#73

Carbazole

Concen: 2.577 ng

RT: 11.43 min Scan# 1589

Delta R.T. -0.01 min

Lab File: BF113706.D

Acq: 10 Apr 2019 19:54

Instrument :

BNA_F

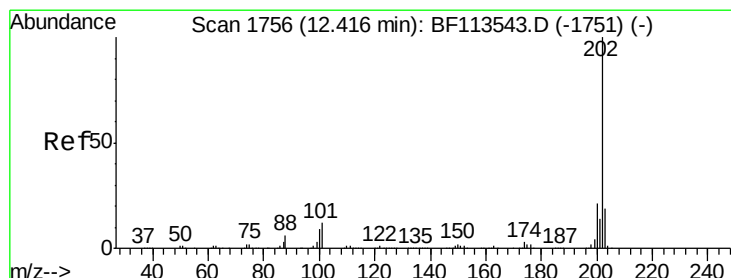
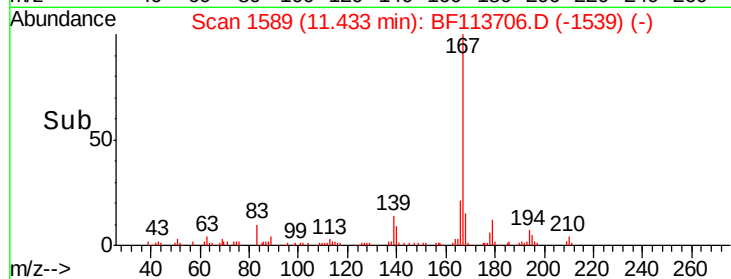
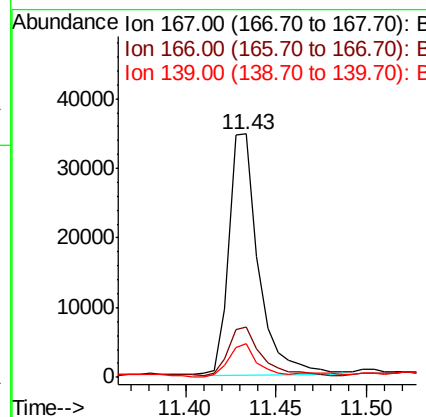
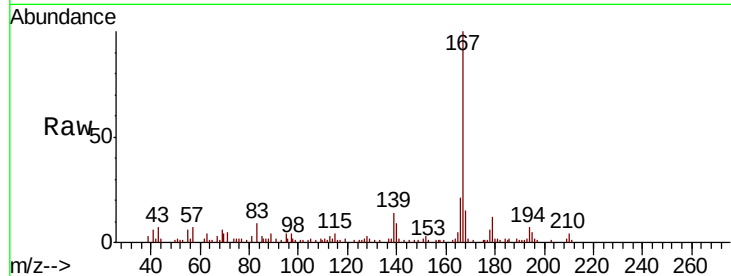
ClientSampleId :

EO-01-040919-A

Tot Ion:	167	Resp:	40065
Ion Ratio	Lower	Upper	
167	100		
166	20.8	17.4	26.0
139	14.0	10.4	15.6

Manual Integrations
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Sohil
4/11/2019 2:39:46 PM



#75

Fluoranthene

Concen: 45.080 ng

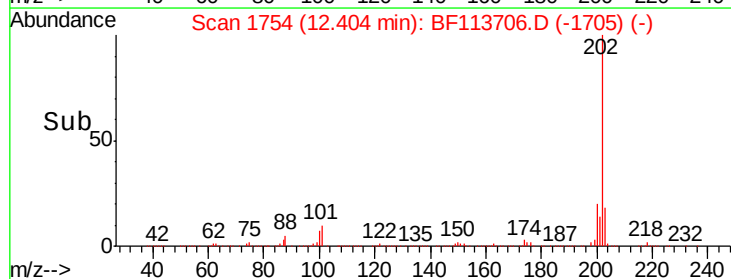
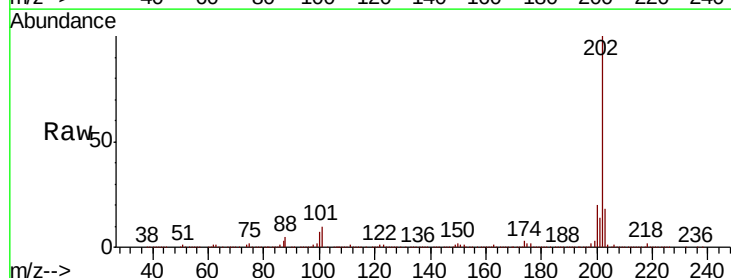
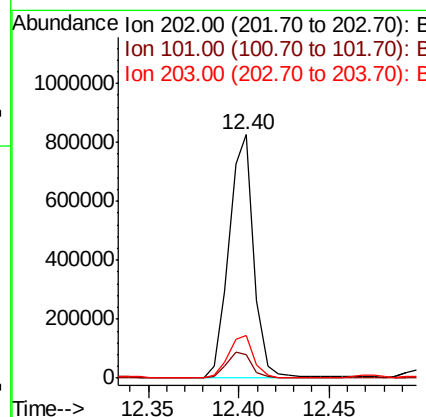
RT: 12.40 min Scan# 1754

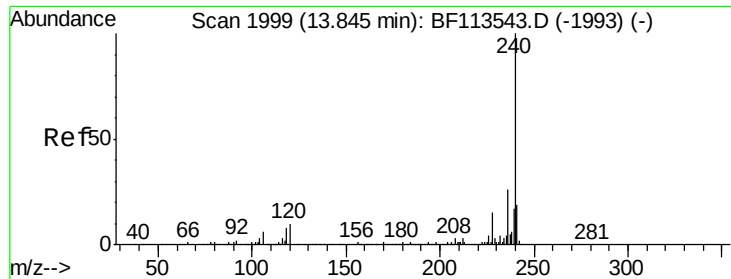
Delta R.T. -0.01 min

Lab File: BF113706.D

Acq: 10 Apr 2019 19:54

Tgt Ion:	202	Resp:	789140
Ion Ratio	Lower	Upper	
202	100		
101	9.6	0.0	31.4
203	17.7	0.0	38.0





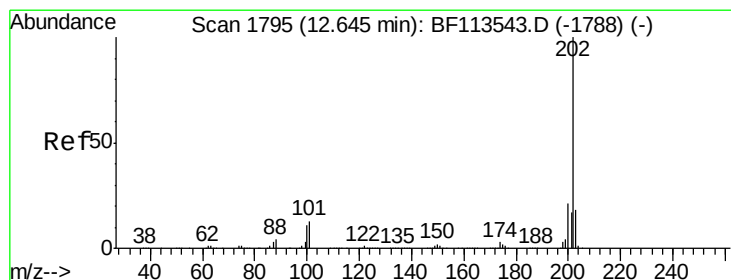
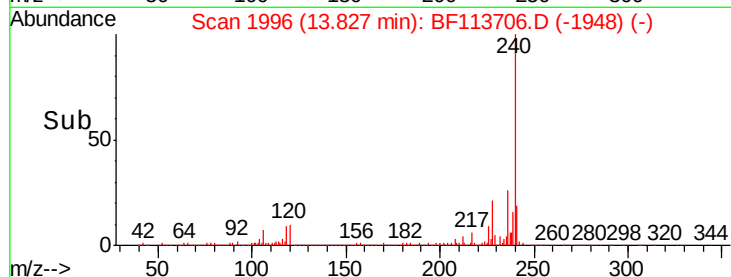
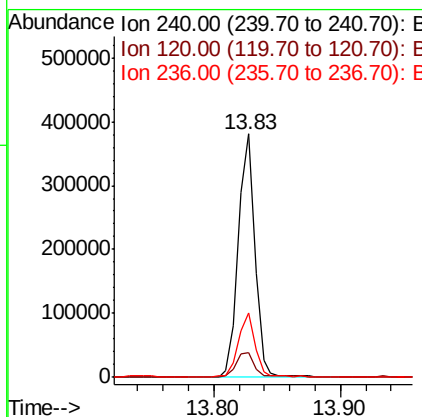
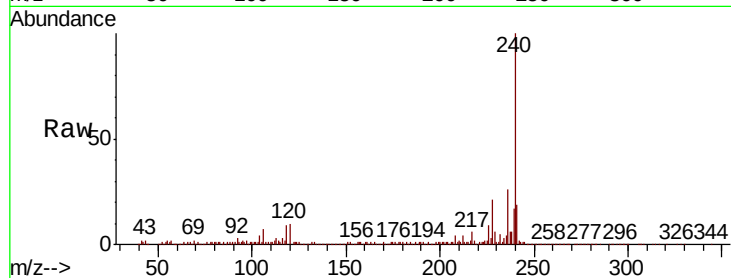
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.83 min Scan# 1996
Delta R.T. -0.02 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

Instrument :
BNA_F
ClientSampled :
EO-01-040919-A

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.4	8.8	13.2
236	26.2	20.9	31.3

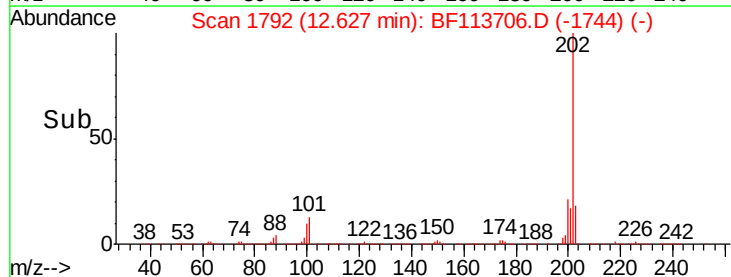
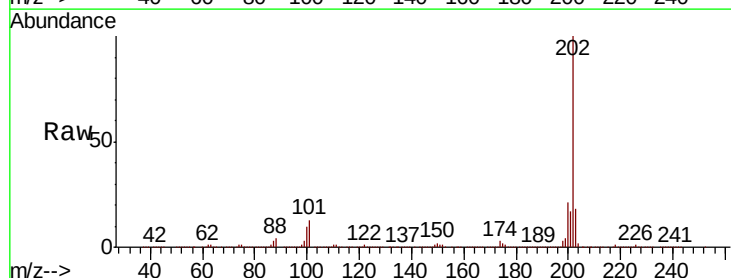
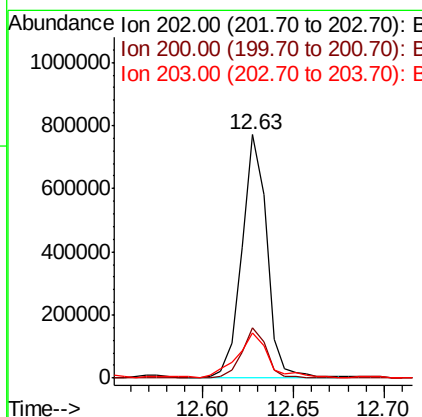
Manual Integrations
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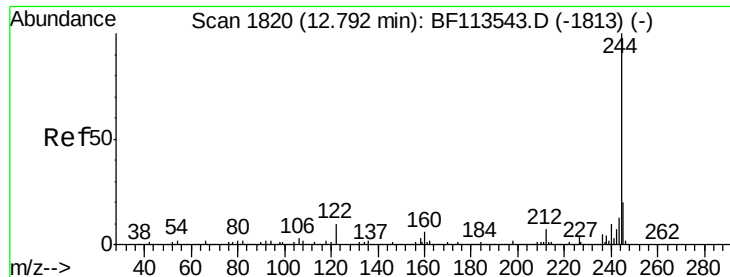
Sohil
4/11/2019 2:39:46 PM



#78
Pyrene
Concen: 28.396 ng
RT: 12.63 min Scan# 1792
Delta R.T. -0.02 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.6	16.8	25.2
203	18.4	14.4	21.6





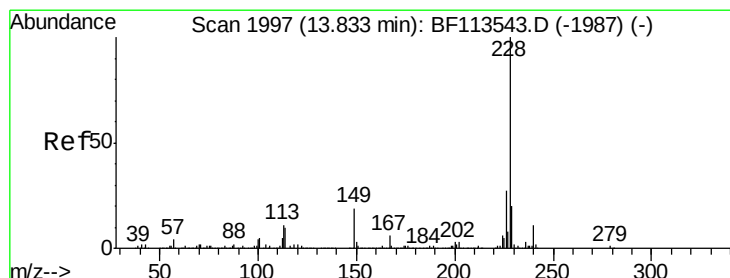
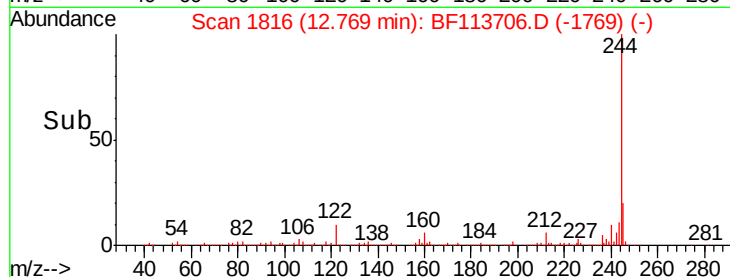
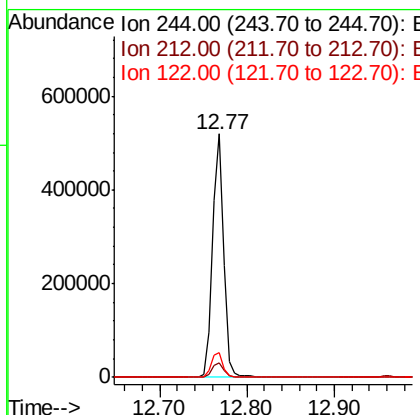
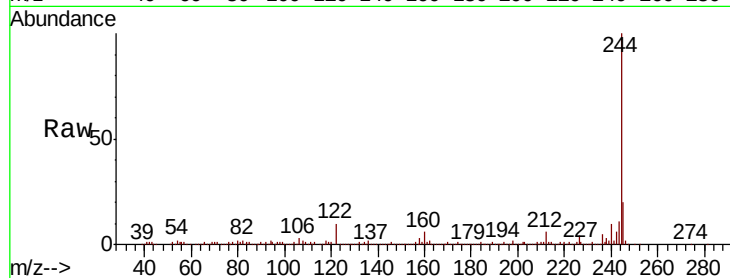
#79
 Terphenyl-d14
 Concen: 27.542 ng
 RT: 12.77 min Scan# 1816
 Delta R.T. -0.02 min
 Lab File: BF113706.D
 Acq: 10 Apr 2019 19:54

Instrument :
 BNA_F
 ClientSampleId :
 EO-01-040919-A

Tot Ion:	244	Resp:	460184
Ion Ratio	Lower	Upper	
244	100		
212	6.0	5.5	8.3
122	10.4	8.6	13.0

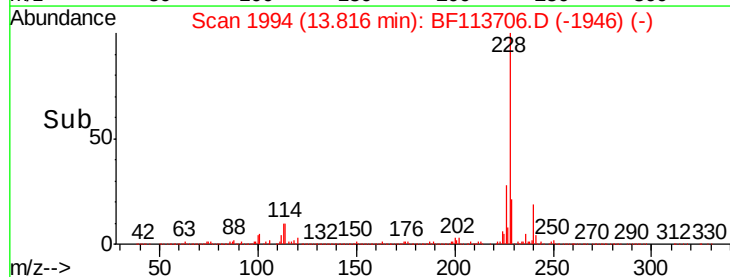
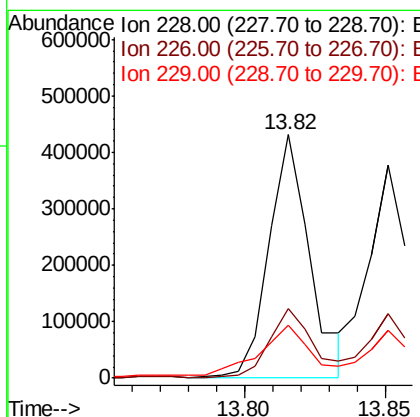
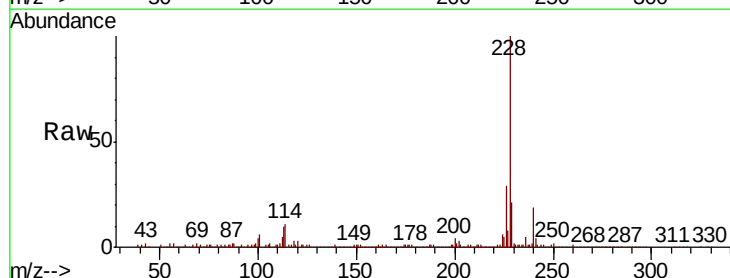
Manual Integrations
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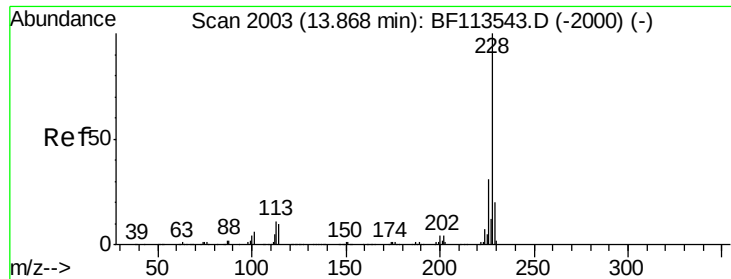
Sohil
 4/11/2019 2:39:46 PM



#81
 Benzo(a)anthracene
 Concen: 21.797 ng
 RT: 13.82 min Scan# 1994
 Delta R.T. -0.02 min
 Lab File: BF113706.D
 Acq: 10 Apr 2019 19:54

Tgt Ion:	228	Resp:	427733
Ion Ratio	Lower	Upper	
228	100		
226	28.7	21.8	32.8
229	21.5	16.2	24.4





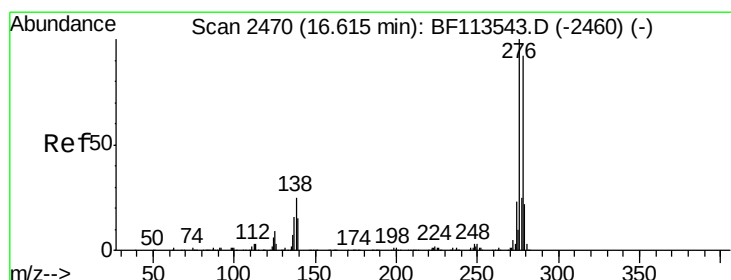
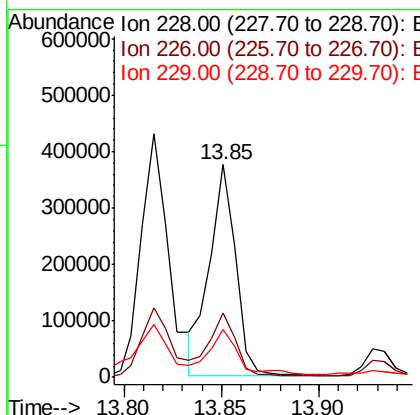
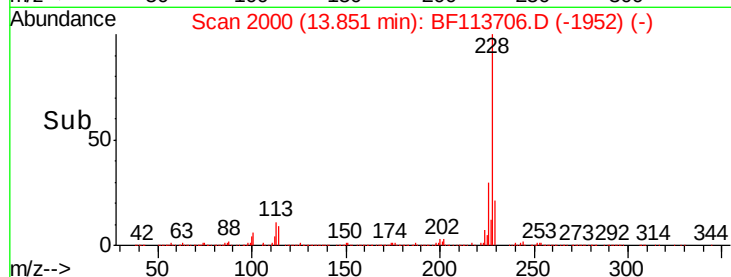
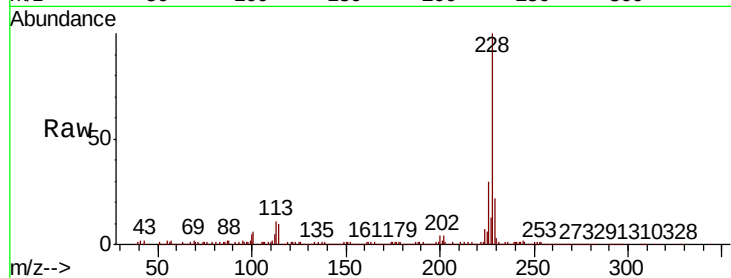
#83
Chrysene
Concen: 17.823 ng
RT: 13.85 min Scan# 2000
Delta R.T. -0.02 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

Instrument :
BNA_F
ClientSampleId :
EO-01-040919-A

Tot Ion:	228	Resp:	354548
Ion Ratio		Lower	Upper
228	100		
226	30.3	24.3	36.5
229	22.5	16.3	24.5

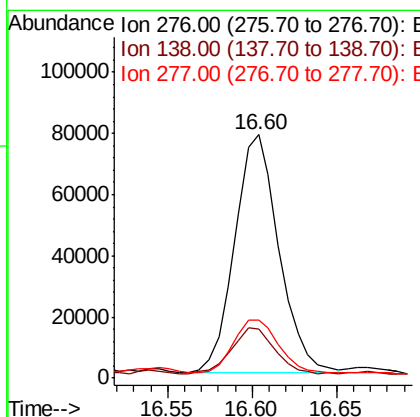
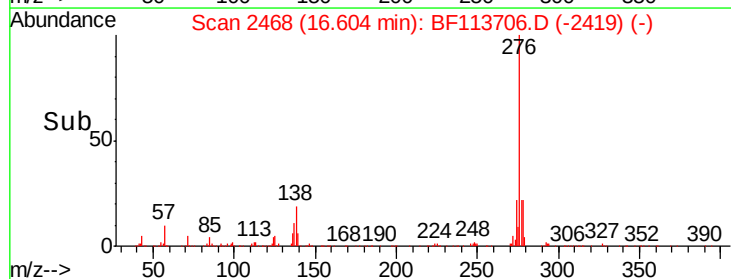
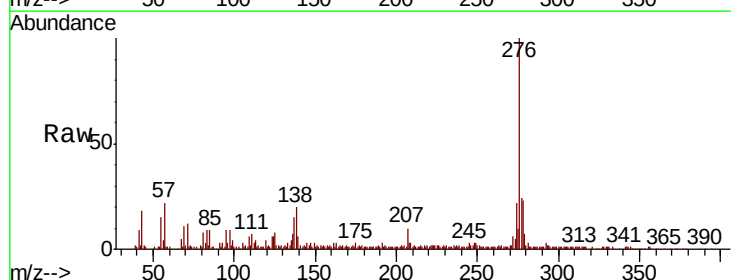
Manual Integrations
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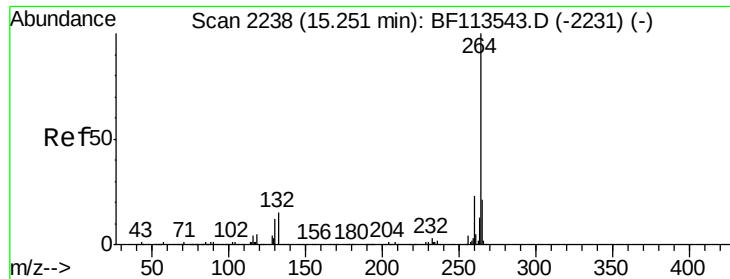
Sohil
4/11/2019 2:39:46 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 7.693 ng
RT: 16.60 min Scan# 2468
Delta R.T. -0.01 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

Tgt Ion:	276	Resp:	141305
Ion Ratio		Lower	Upper
276	100		
138	20.0	18.1	27.1
277	22.7	20.2	30.4





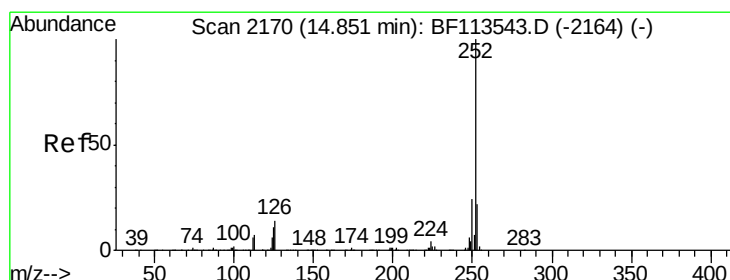
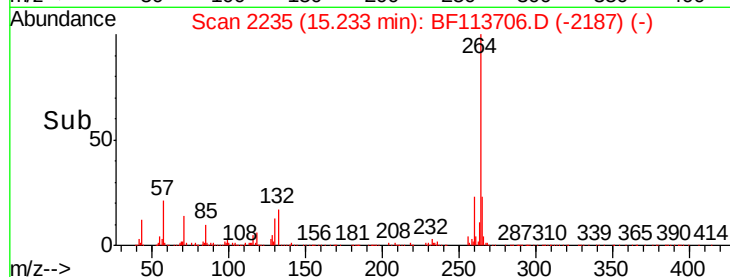
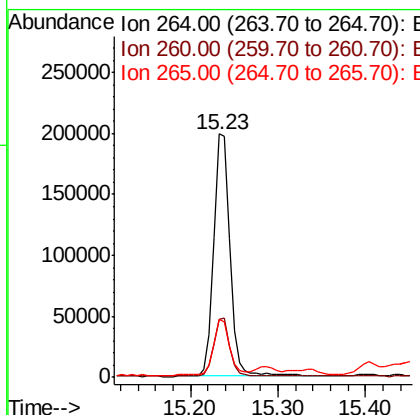
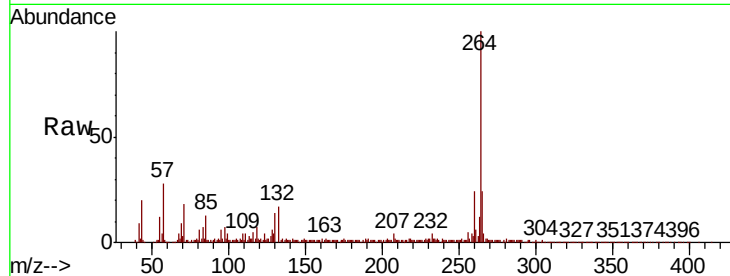
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.23 min Scan# 2235
Delta R.T. -0.02 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

Instrument :
BNA_F
ClientSampleId :
EO-01-040919-A

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.1	28.7
265	23.6	17.1	25.7

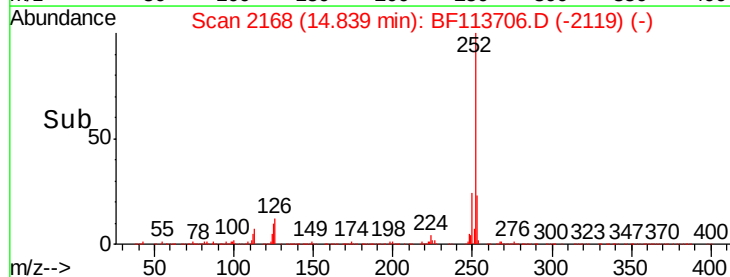
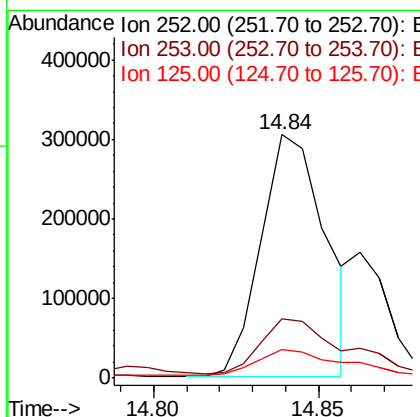
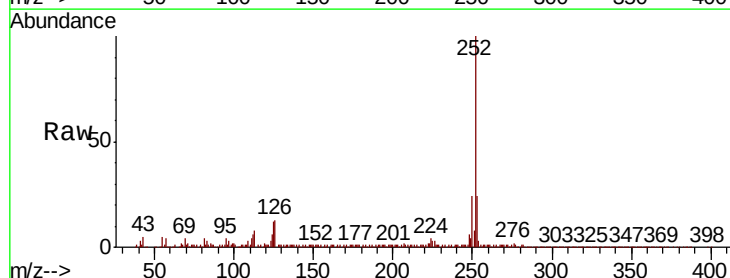
Manual Integrations
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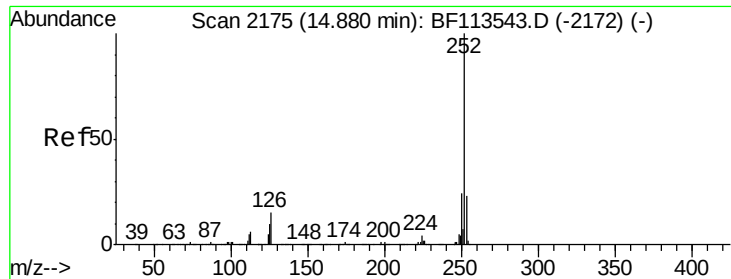
Sohil
4/11/2019 2:39:46 PM



#88
Benzo(b)fluoranthene
Concen: 25.898 ng m
RT: 14.84 min Scan# 2168
Delta R.T. -0.01 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	18.0	27.0
125	11.6	7.6	11.4





#89

Benzo(k)fluoranthene

Concen: 8.703 ng m

RT: 14.86 min Scan# 2172

Delta R.T. -0.02 min

Lab File: BF113706.D

Acq: 10 Apr 2019 19:54

Instrument :

BNA_F

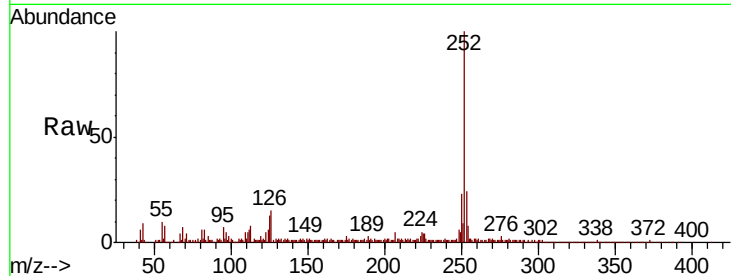
ClientSampleId :

EO-01-040919-A

Tot Ion:	252	Resp:	124500
Ion Ratio	Lower	Upper	
252	100		
253	23.9	17.7	26.5
125	12.5	7.3	10.9#

Manual Integrations
APPROVED

Sohil
4/11/2019 2:39:46 PM

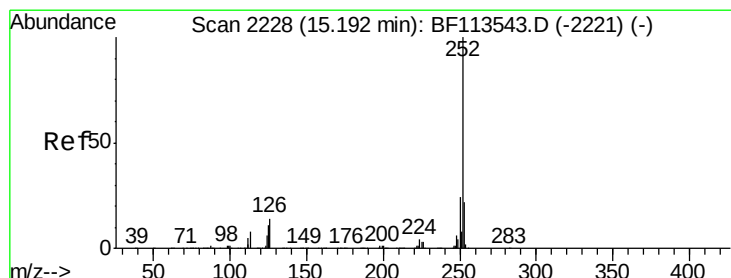
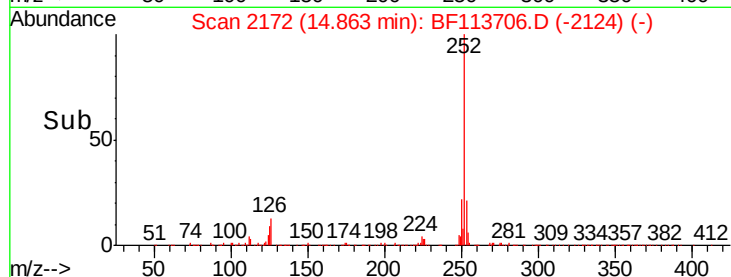
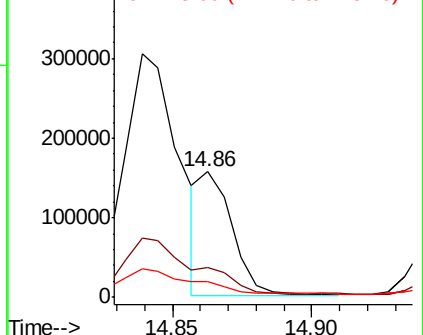


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Benzo(a)pyrene

Concen: 19.589 ng

RT: 15.18 min Scan# 2226

Delta R.T. -0.01 min

Lab File: BF113706.D

Acq: 10 Apr 2019 19:54

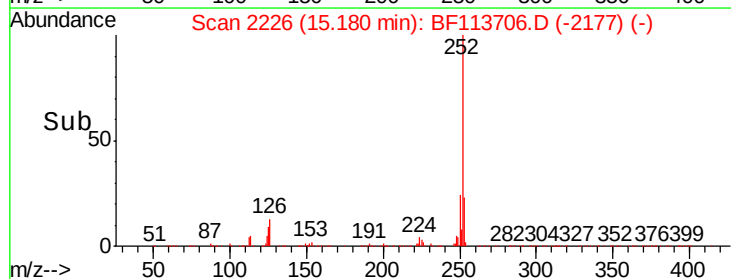
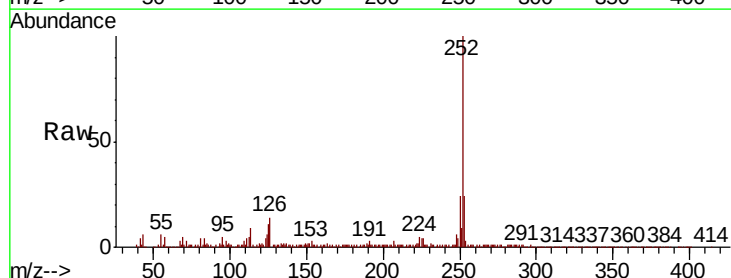
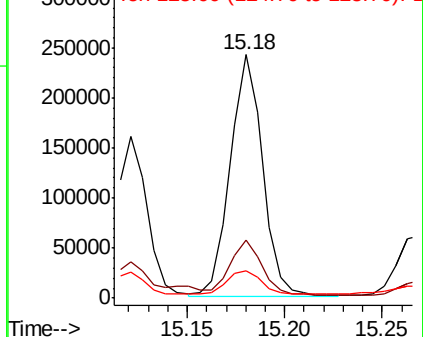
Tgt Ion:	252	Resp:	277457
Ion Ratio	Lower	Upper	
252	100		
253	24.0	17.9	26.9
125	11.3	8.8	13.2

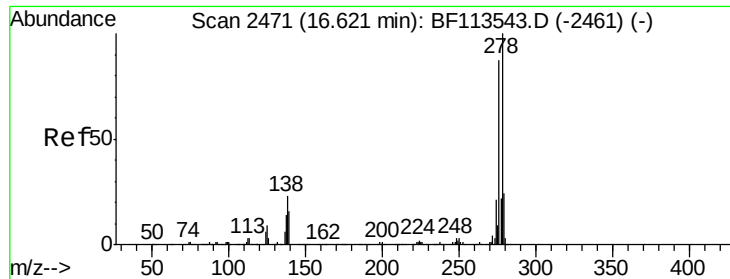
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





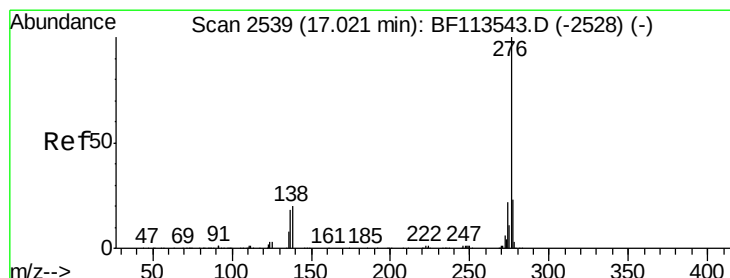
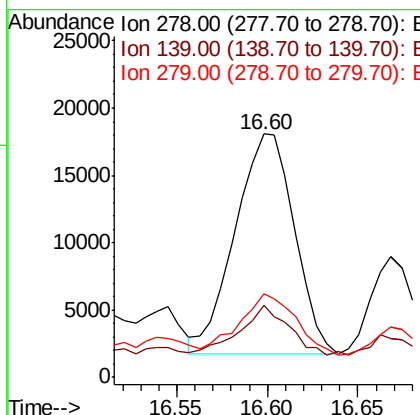
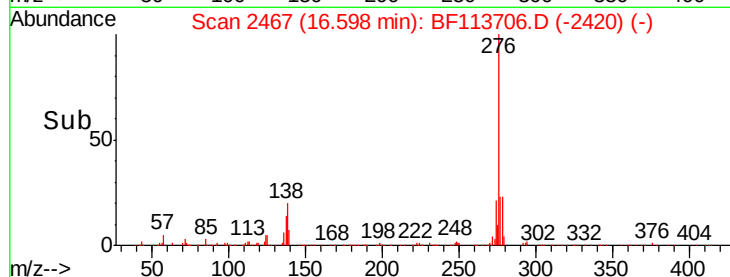
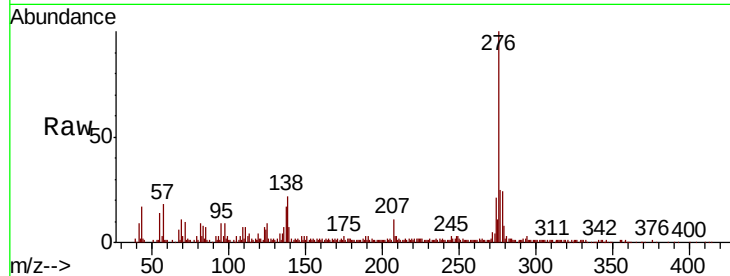
#91
Dibenzo(a,h)anthracene
Concen: 2.809 ng
RT: 16.60 min Scan# 2467
Delta R.T. -0.02 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

Instrument :
BNA_F
ClientSampleId :
EO-01-040919-A

Tot Ion	Ratio	Lower	Upper
278	100		
139	29.5	12.0	18.0#
279	34.2	19.0	28.6#

Manual Integrations
APPROVED

Sohil
4/11/2019 2:39:46 PM



#92
Benzo(g,h,i)perylene
Concen: 9.962 ng
RT: 17.01 min Scan# 2537
Delta R.T. -0.01 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.6	18.8	28.2
138	21.5	15.6	23.4

