

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\
 Data File : BF107300.D
 Acq On : 11 Jul 2018 15:18
 Operator : JU/SJ
 Sample : J3933-02 5X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EP-2-4

Manual Integrations
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Quant Time: Jul 12 03:28:00 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 29 14:38:29 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.93	152	58385	20.00	ng	-0.03
21) Naphthalene-d8	8.21	136	220499	20.00	ng	-0.04
38) Acenaphthene-d10	9.98	164	98883	20.00	ng	-0.03
63) Phenanthrene-d10	11.48	188	168940	20.00	ng	-0.02
75) Chrysene-d12	14.15	240	170641	20.00	ng	-0.02
86) Perylene-d12	15.69	264	153306	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.57	112	70007	20.30	ng	-0.03
7) Phenol-d6	6.58	99	88316	20.51	ng	-0.04
23) Nitrobenzene-d5	7.50	82	52701	13.28	ng	-0.04
41) 2,4,6-Tribromophenol	10.78	330	19322	16.86	ng	-0.02
44) 2-Fluorobiphenyl	9.29	172	105618	4.03	ng	-0.03
78) Terphenyl-d14	13.06	244	105804	15.02	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.24	128	33478	3.247	ng	97
37) 2-Methylnaphthalene	8.93	142	23521	3.442	ng	98
48) Acenaphthylene	9.84	152	22072	2.254	ng	97
49) Dimethylphthalate	9.68	163	16797	2.265	ng	# 97
51) Acenaphthene	10.01	154	32662	5.296	ng	99
57) Fluorene	10.53	166	33722	5.032	ng	99
70) Phenanthrene	11.51	178	674626	82.793	ng	99
71) Anthracene	11.55	178	116579	14.017	ng	99
72) Carbazole	11.71	167	29228	3.754	ng	96
74) Fluoranthene	12.71	202	715495	79.667	ng	96
77) Pyrene	12.94	202	970117	86.213	ng	97
80) Benzo(a)anthracene	14.14	228	570389	54.845	ng	96
82) Chrysene	14.17	228	626448m	65.473	ng	
85) Indeno(1,2,3-cd)pyrene	17.29	276	187959m	23.149	ng	
87) Benzo(b)fluoranthene	15.24	252	549553m	57.706	ng	
88) Benzo(k)fluoranthene	15.27	252	172285m	18.997	ng	
89) Benzo(a)pyrene	15.64	252	409167m	48.331	ng	
90) Dibenzo(a,h)anthracene	17.29	278	67294	9.379	ng	# 91
91) Benzo(a,h,i)perylene	17.79	276	228942	32.646	ng	# 89

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

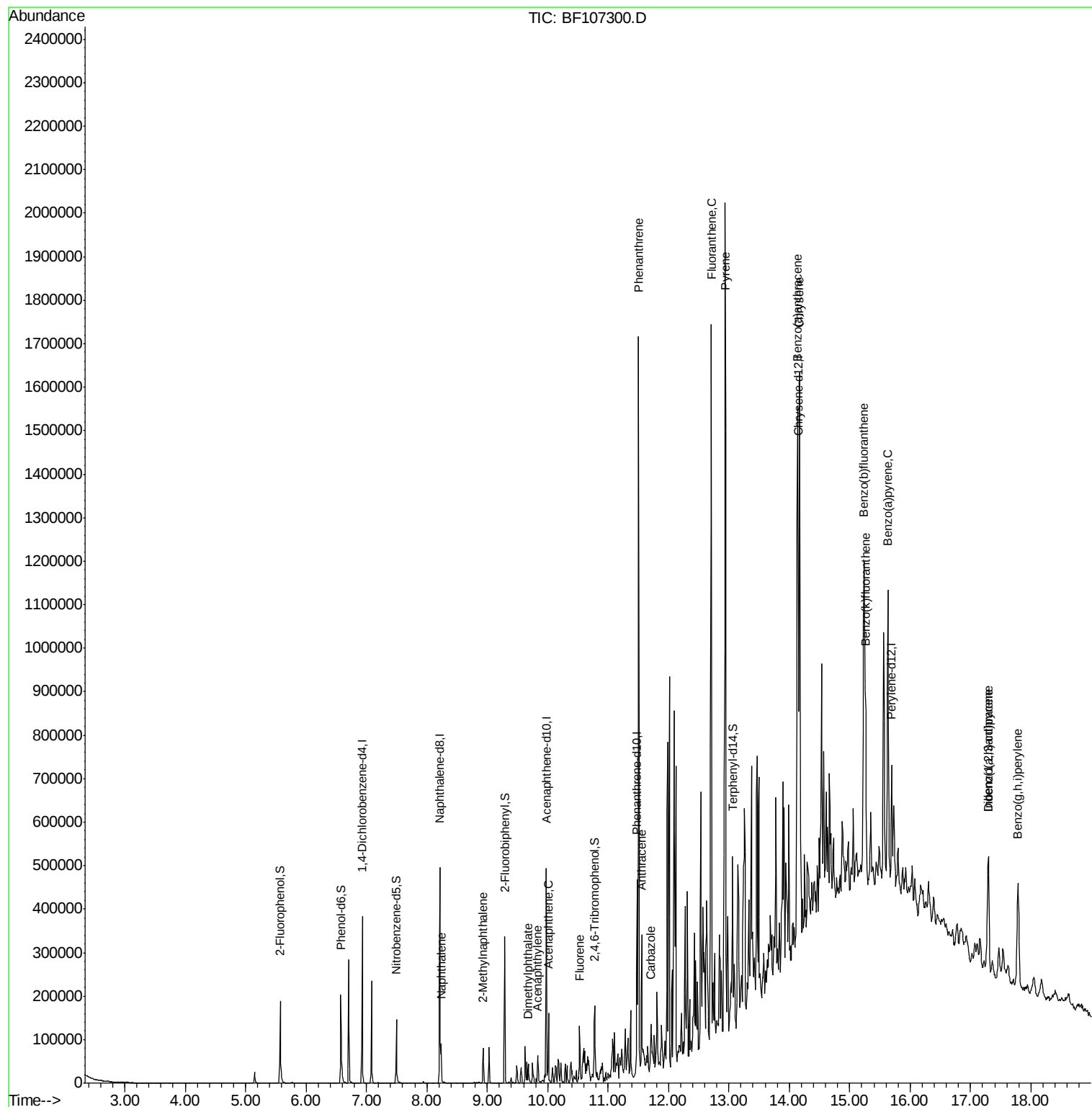
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\
Data File : BF107300.D
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#1

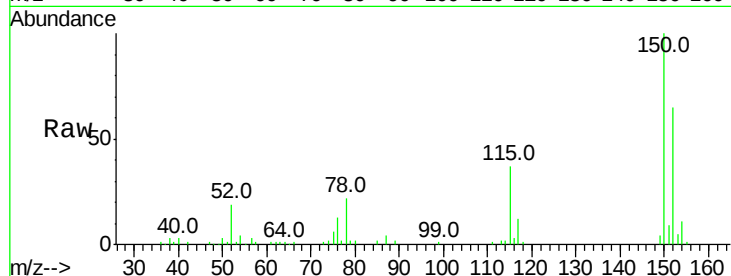
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.93 min Scan# 781
Delta R.T. -0.03 min
Lab File: BF107300.D
Acq: 11 Jul 2018 15:18

Instrument :
BNA_F
ClientSampled :
EP-2-4

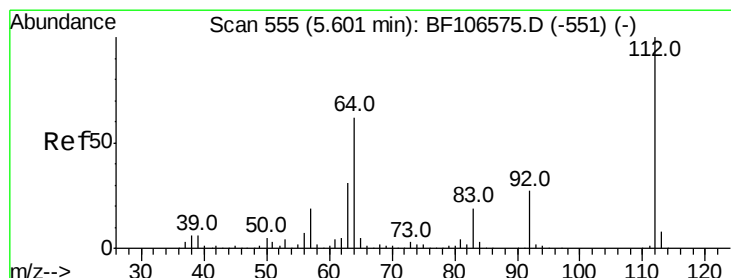
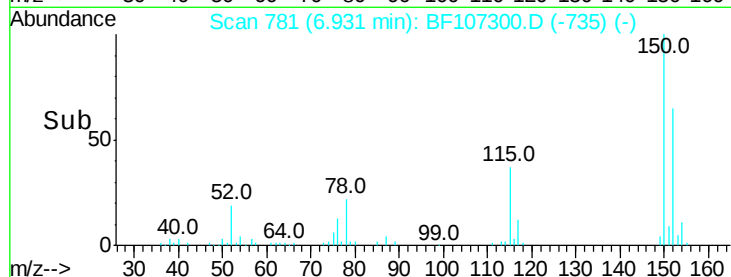
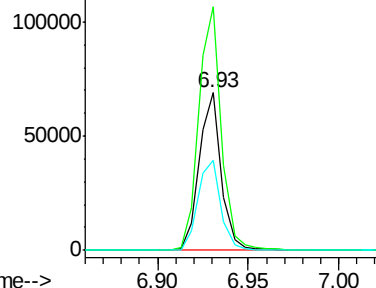
Tot Ion	Ratio	Lower	Upper
152	100		
150	154.7	124.6	186.8
115	57.6	50.1	75.1

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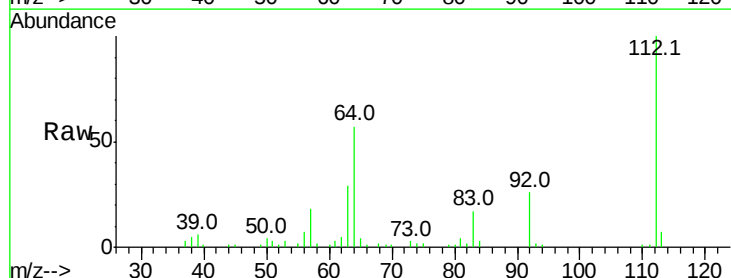
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



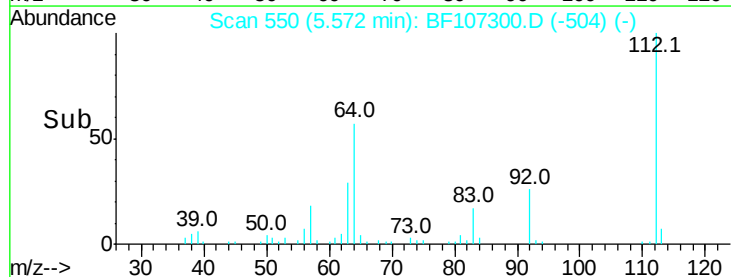
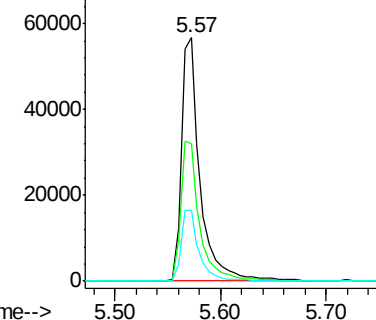
#5

2-Fluorophenol
Concen: 20.304 ng
RT: 5.57 min Scan# 550
Delta R.T. -0.03 min
Lab File: BF107300.D
Acq: 11 Jul 2018 15:18

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.6	47.9	71.9
63	29.2	23.7	35.5



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: 20.511 ng

RT: 6.58 min Scan# 721

Delta R.T. -0.04 min

Lab File: BF107300.D

Acq: 11 Jul 2018 15:18

Instrument :

BNA_F

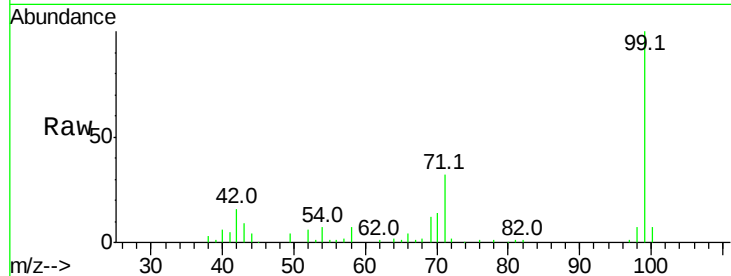
ClientSampled :

EP-2-4

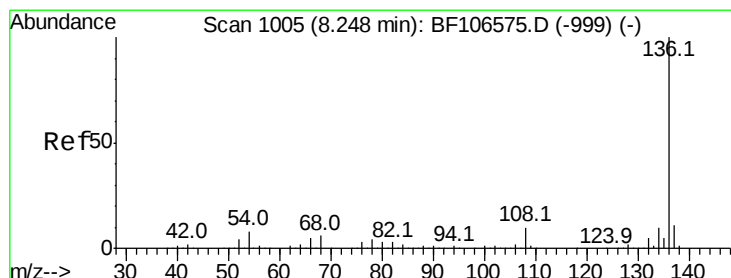
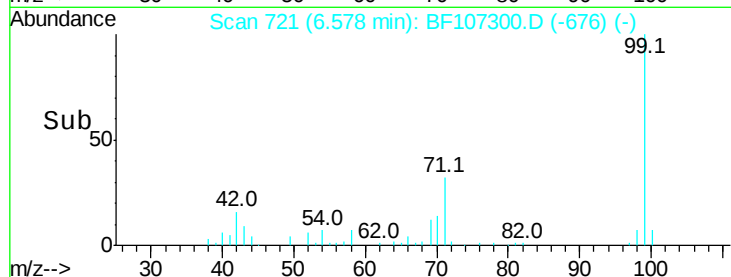
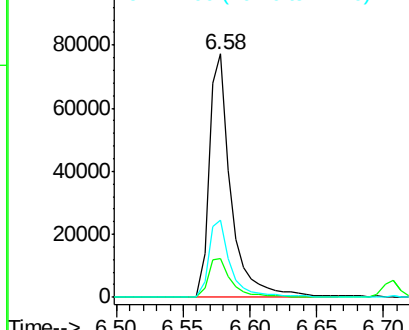
Tot Ion:	99	Resp:	88316
Ion Ratio	Lower	Upper	
99	100		
42	16.1	14.5	21.7
71	31.6	25.4	38.0

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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: 8.21 min Scan# 999

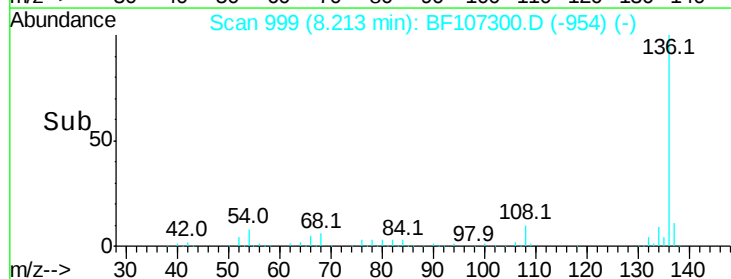
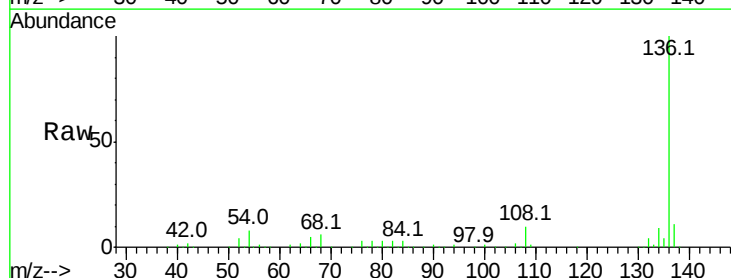
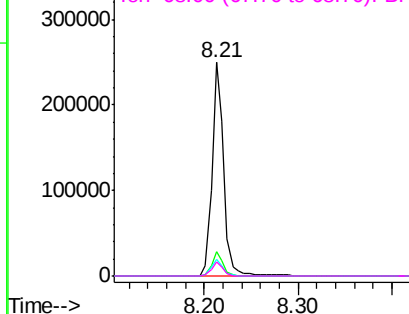
Delta R.T. -0.04 min

Lab File: BF107300.D

Acq: 11 Jul 2018 15:18

Tgt Ion:	136	Resp:	220499
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.9	13.3
54	8.1	6.6	9.8
68	6.5	5.0	7.4

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





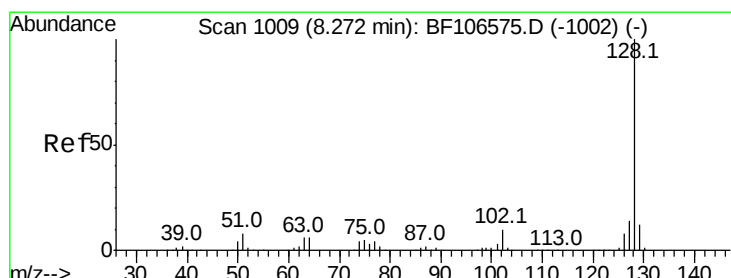
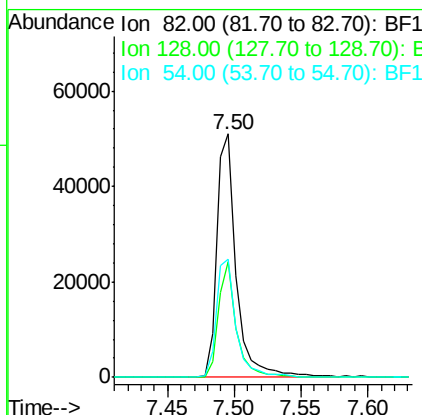
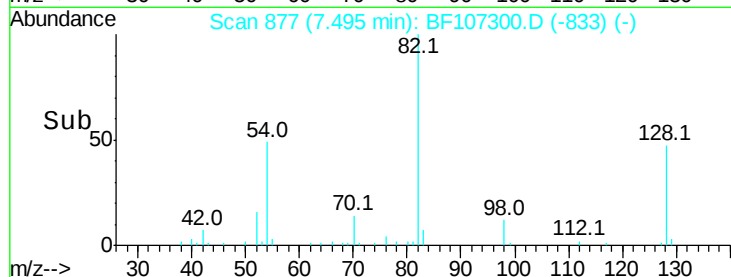
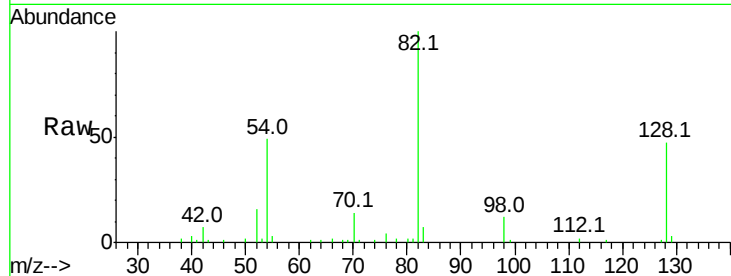
#23
Nitrobenzene-d5
Concen: 13.283 ng
RT: 7.50 min Scan# 877
Delta R.T. -0.04 min
Lab File: BF107300.D
Acq: 11 Jul 2018 15:18

Instrument :
BNA_F
ClientSampled :
EP-2-4

Tot Ion	Ratio	Lower	Upper
82	100		
128	47.4	36.1	54.1
54	48.6	41.4	62.2

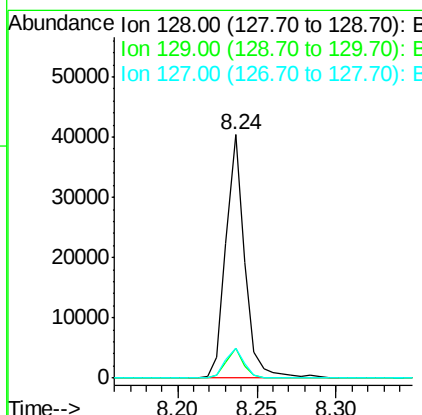
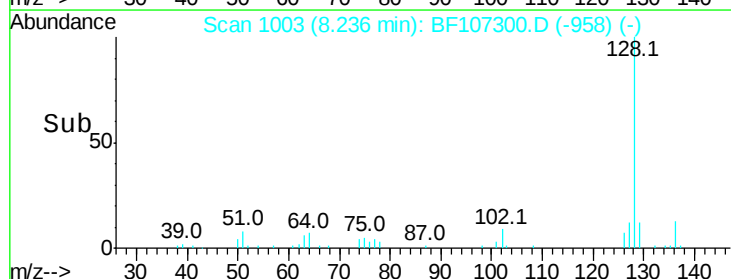
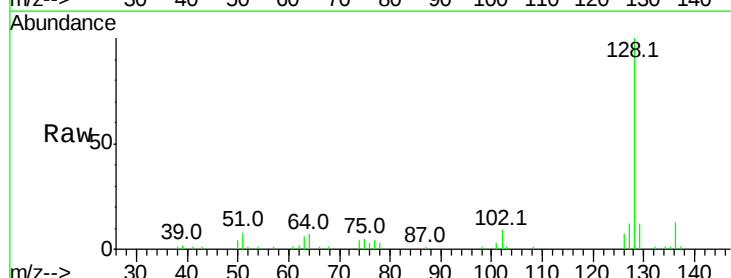
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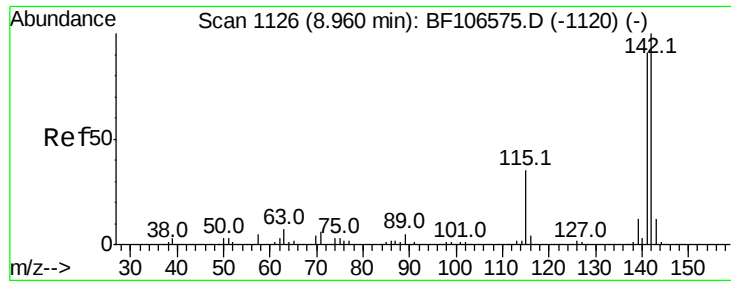
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#31
Naphthalene
Concen: 3.247 ng
RT: 8.24 min Scan# 1003
Delta R.T. -0.04 min
Lab File: BF107300.D
Acq: 11 Jul 2018 15:18

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.4	8.8	13.2
127	12.4	10.9	16.3





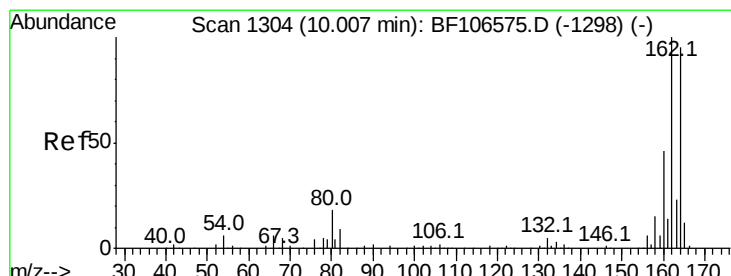
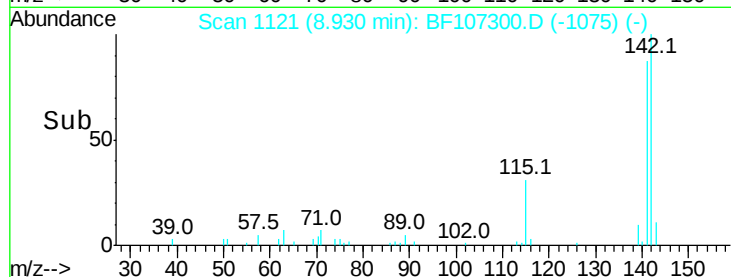
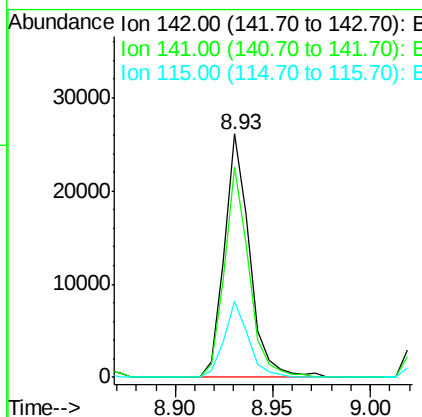
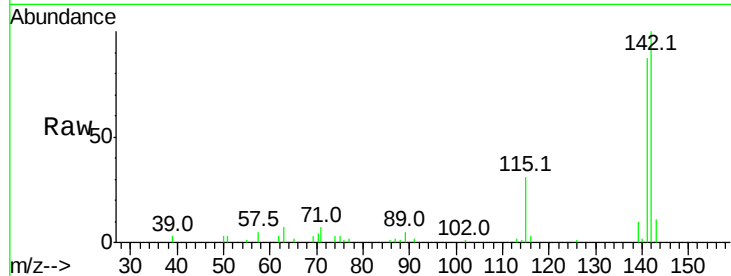
#37
2-Methylnaphthalene
Concen: 3.442 ng
RT: 8.93 min Scan# 1121
Delta R.T. -0.03 min
Lab File: BF107300.D
Acq: 11 Jul 2018 15:18

Instrument :
BNA_F
ClientSampled :
EP-2-4

Tot Ion	Ratio	Lower	Upper
142	100		
141	86.6	70.8	106.2
115	31.3	26.1	39.1

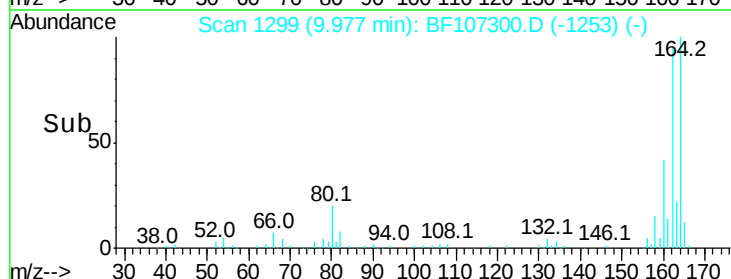
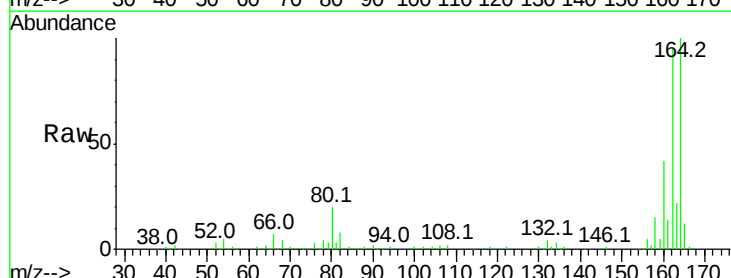
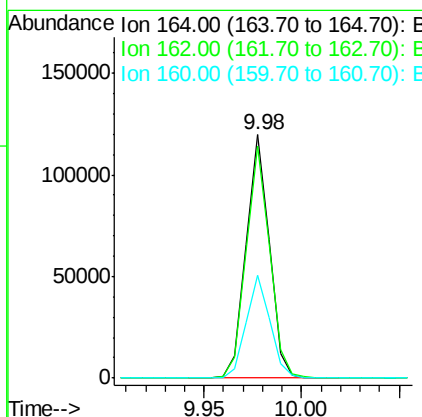
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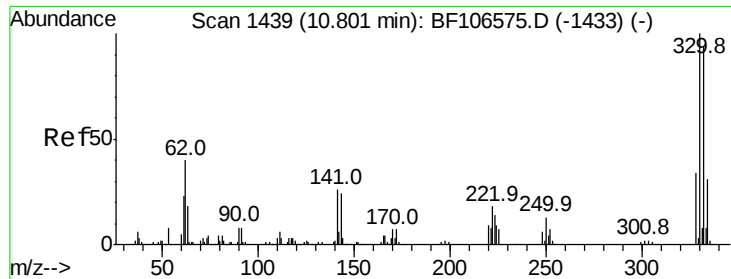
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.98 min Scan# 1299
Delta R.T. -0.03 min
Lab File: BF107300.D
Acq: 11 Jul 2018 15:18

Tgt Ion	Ratio	Lower	Upper
164	100		
162	95.4	86.1	129.1
160	42.4	38.3	57.5





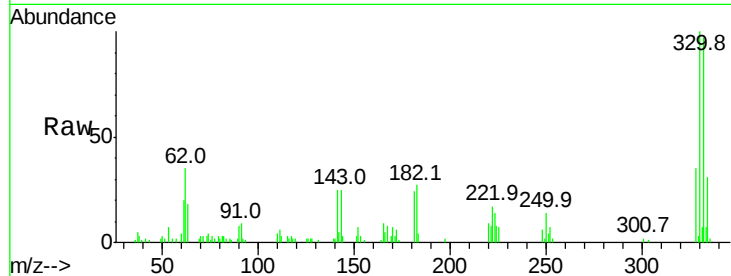
#41
 2,4,6-Tribromophenol
 Concen: 16.859 ng
 RT: 10.78 min Scan# 1435
 Delta R.T. -0.02 min
 Lab File: BF107300.D
 Acq: 11 Jul 2018 15:18

Instrument :
 BNA_F
 ClientSampled :
 EP-2-4

Tot Ion	Ratio	Lower	Upper
330	100		
332	98.8	77.0	115.6
141	31.6	29.9	44.9

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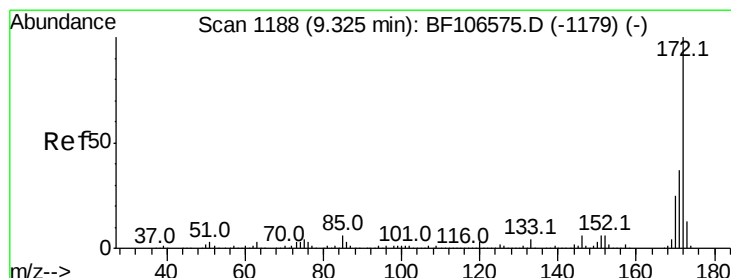
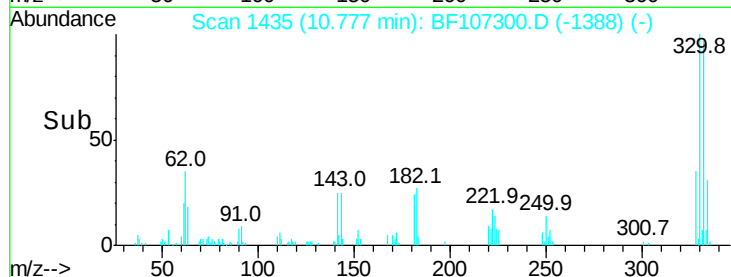
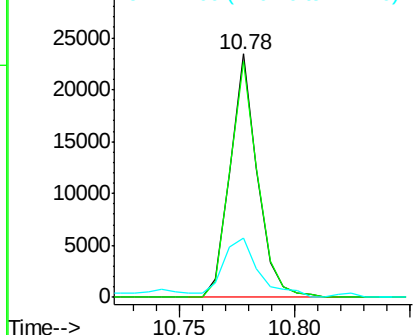


Abundance

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



#44
 2-Fluorobiphenyl
 Concen: 4.027 ng
 RT: 9.29 min Scan# 1182
 Delta R.T. -0.03 min
 Lab File: BF107300.D
 Acq: 11 Jul 2018 15:18

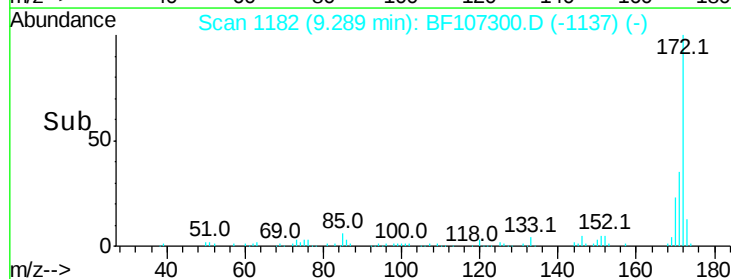
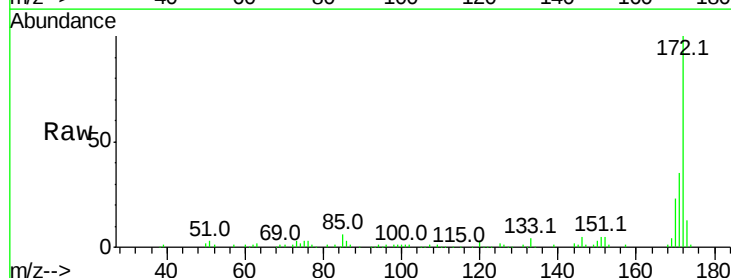
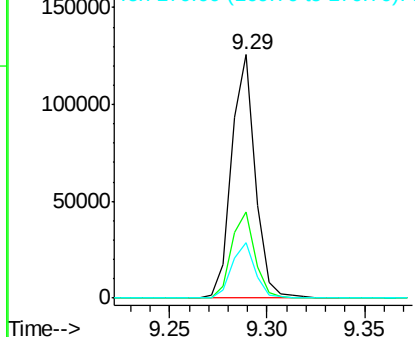
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.1	29.7	44.5
170	22.9	19.6	29.4

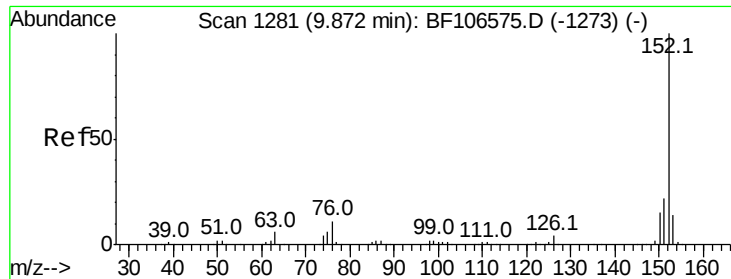
Abundance

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





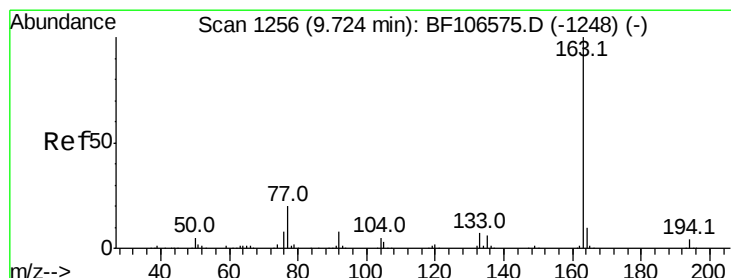
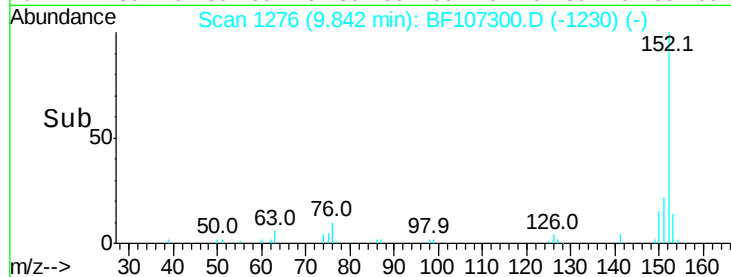
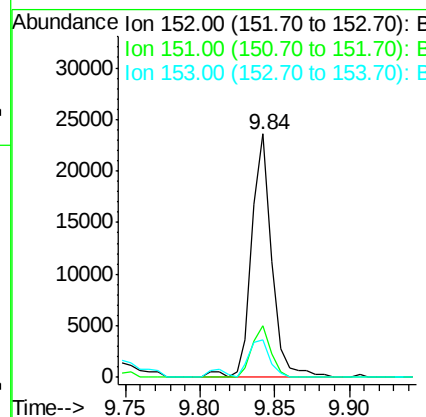
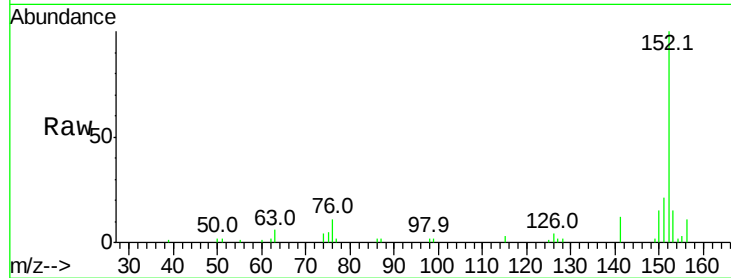
#48
Acenaphthylene
Concen: 2.254 ng
RT: 9.84 min Scan# 1276
Delta R.T. -0.03 min
Lab File: BF107300.D
Acq: 11 Jul 2018 15:18

Instrument :
BNA_F
ClientSampleId :
EP-2-4

Tot Ion	Ratio	Lower	Upper
152	100		
151	21.3	16.3	24.5
153	15.3	10.7	16.1

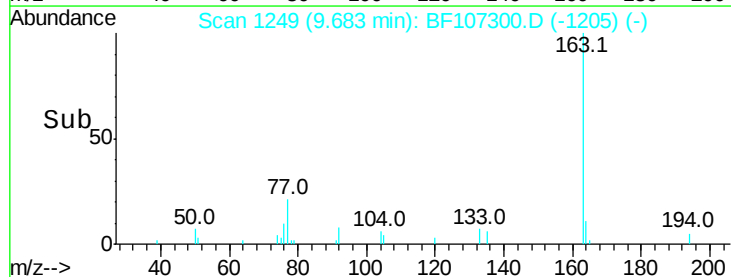
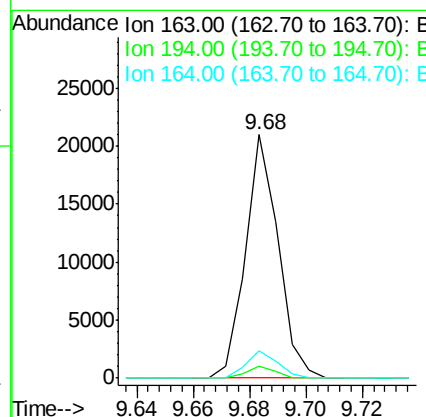
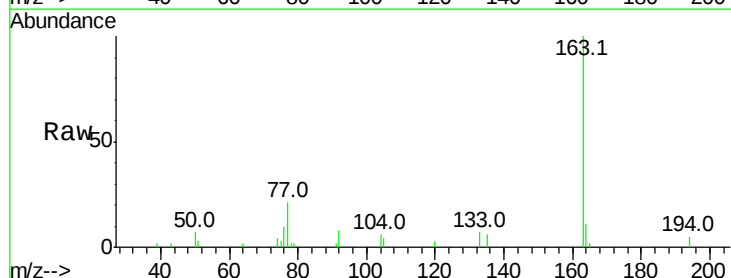
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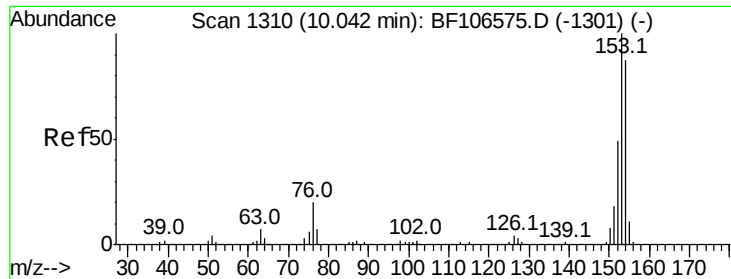
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#49
Dimethylphthalate
Concen: 2.265 ng
RT: 9.68 min Scan# 1249
Delta R.T. -0.04 min
Lab File: BF107300.D
Acq: 11 Jul 2018 15:18

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.8	2.7	4.1#
164	11.1	8.2	12.2





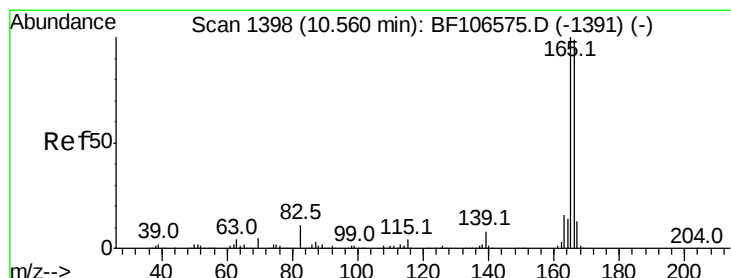
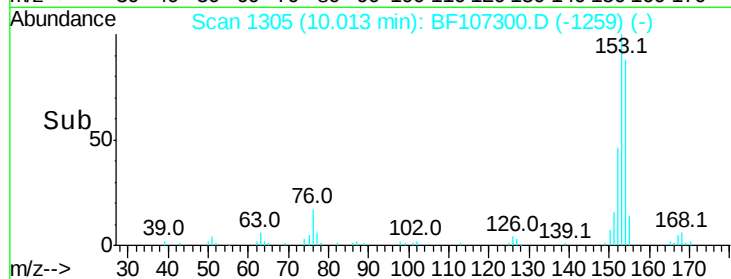
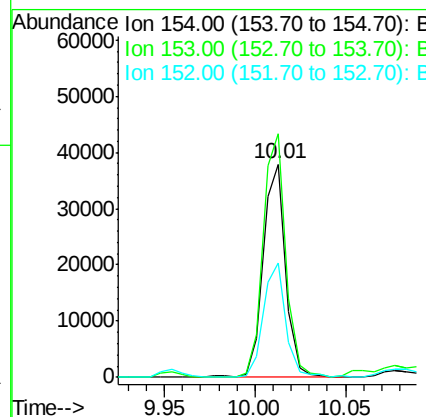
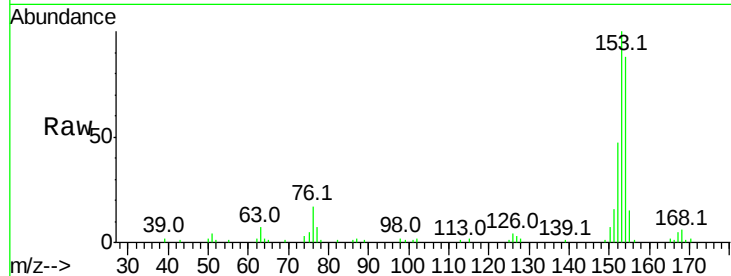
#51
Acenaphthene
Concen: 5.296 ng
RT: 10.01 min Scan# 1305
Delta R.T. -0.03 min
Lab File: BF107300.D
Acq: 11 Jul 2018 15:18

Instrument :
BNA_F
ClientSampleId :
EP-2-4

Tot Ion	Ratio	Lower	Upper
154	100		
153	114.3	91.2	136.8
152	53.7	43.8	65.8

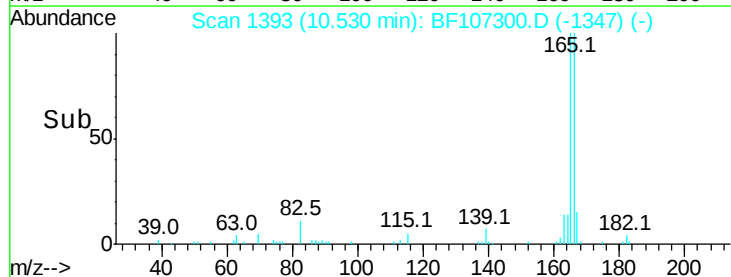
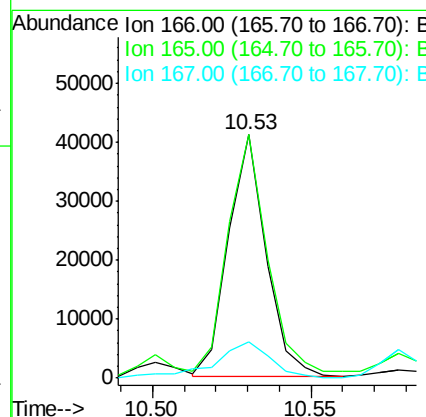
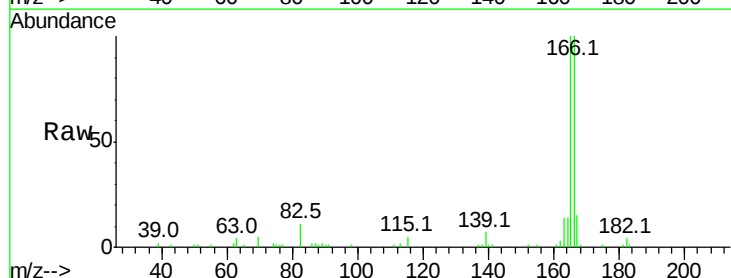
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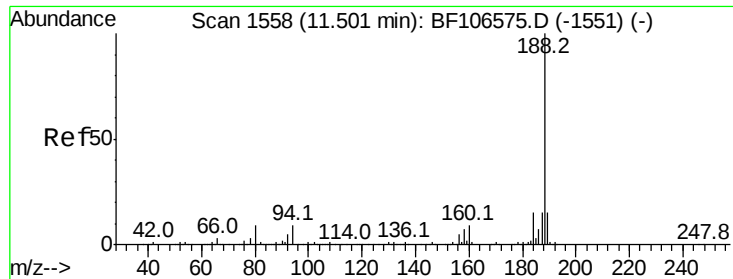
Sohil
7/12/2018 2:19:18 PM



#57
Fluorene
Concen: 5.032 ng
RT: 10.53 min Scan# 1393
Delta R.T. -0.03 min
Lab File: BF107300.D
Acq: 11 Jul 2018 15:18

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.1	79.8	119.8
167	15.0	10.6	16.0





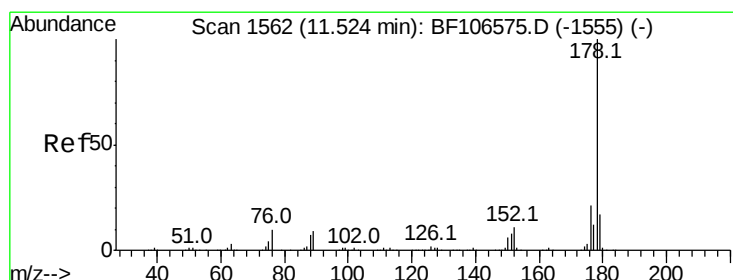
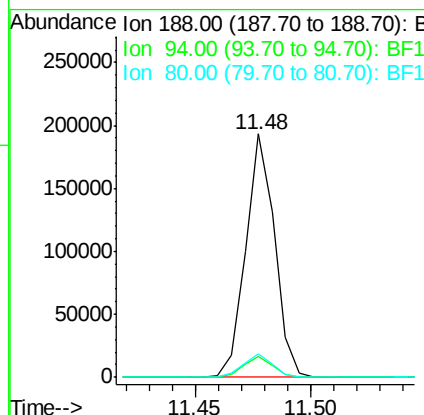
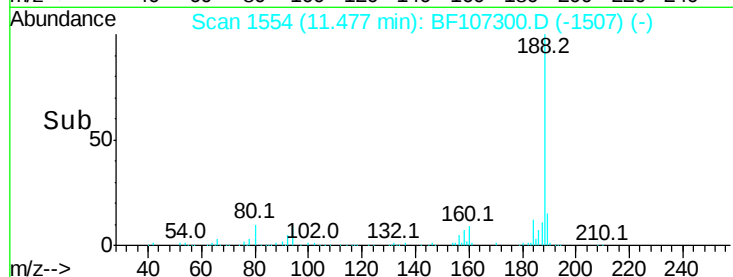
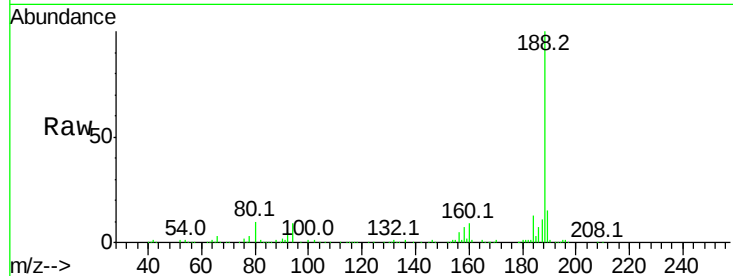
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.48 min Scan# 1554
Delta R.T. -0.02 min
Lab File: BF107300.D
Acq: 11 Jul 2018 15:18

Instrument :
BNA_F
ClientSampled :
EP-2-4

Tot Ion:188	Resp: 168940
Ion Ratio	Lower Upper
188 100	
94 8.8	8.5 12.7
80 9.9	9.2 13.8

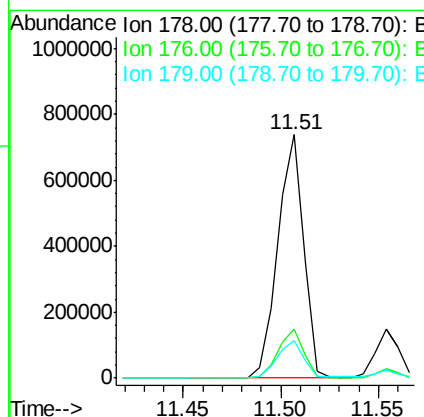
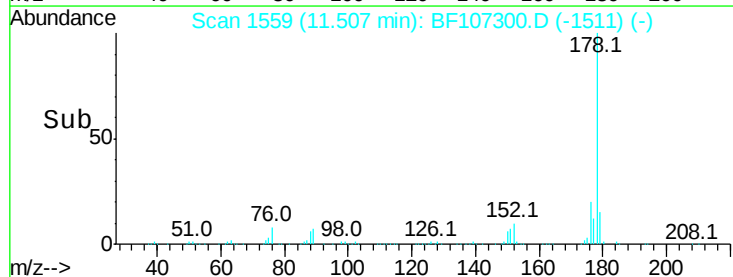
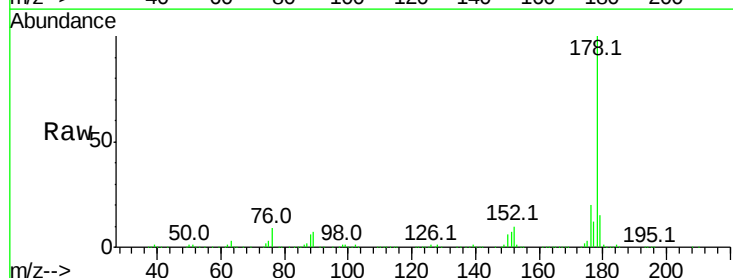
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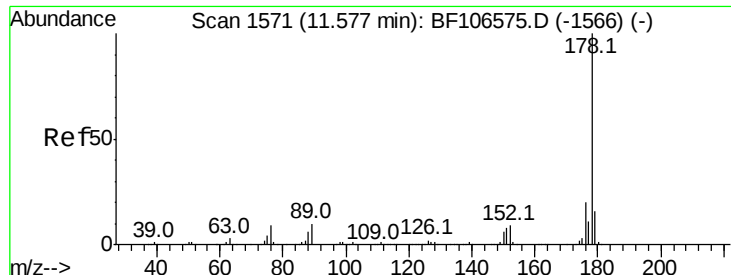
Sohil
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#70
Phenanthrene
Concen: 82.793 ng
RT: 11.51 min Scan# 1559
Delta R.T. -0.02 min
Lab File: BF107300.D
Acq: 11 Jul 2018 15:18

Tgt Ion:178	Resp: 674626
Ion Ratio	Lower Upper
178 100	
176 20.3	15.8 23.8
179 15.4	13.0 19.6





#71

Anthracene

Concen: 14.017 ng

RT: 11.55 min Scan# 1567

Delta R.T. -0.02 min

Lab File: BF107300.D

Acq: 11 Jul 2018 15:18

Instrument :

BNA_F

ClientSampled :

EP-2-4

Tot Ion:178 Resp: 116579

Ion Ratio Lower Upper

178 100

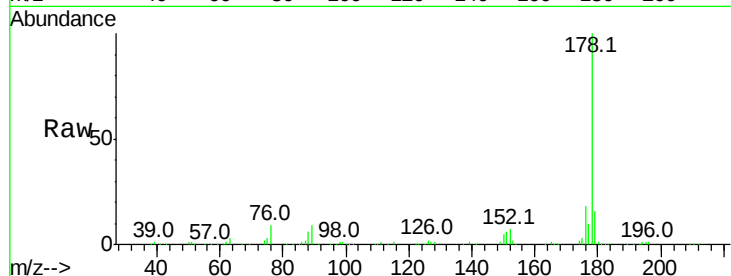
176 18.5 15.4 23.2

179 15.5 12.6 19.0

Manual Integrations
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Sohil

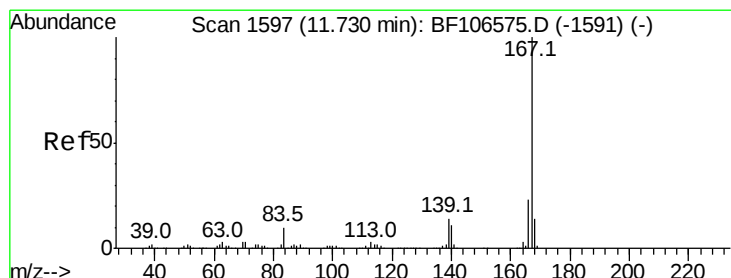
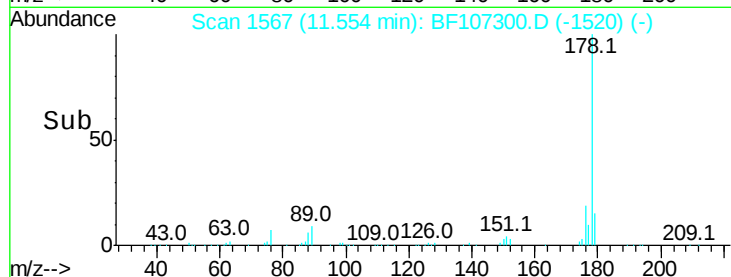
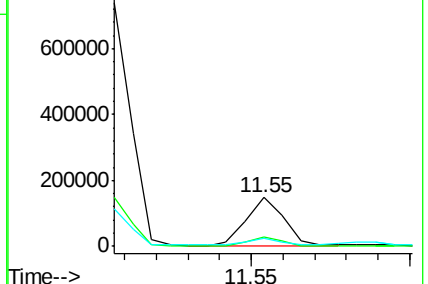
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 3.754 ng

RT: 11.71 min Scan# 1594

Delta R.T. -0.02 min

Lab File: BF107300.D

Acq: 11 Jul 2018 15:18

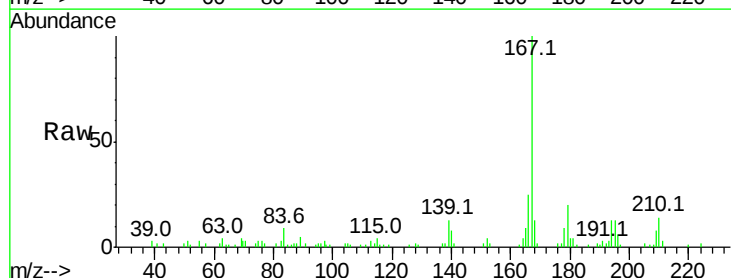
Tgt Ion:167 Resp: 29228

Ion Ratio Lower Upper

167 100

166 24.7 17.6 26.4

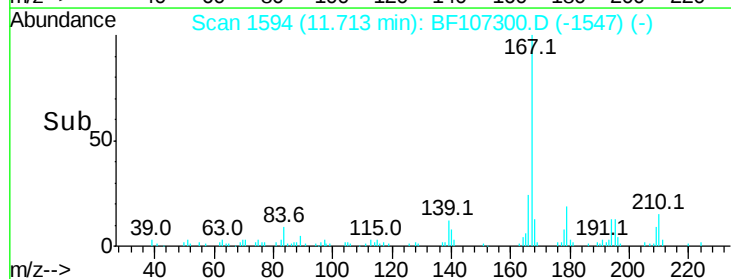
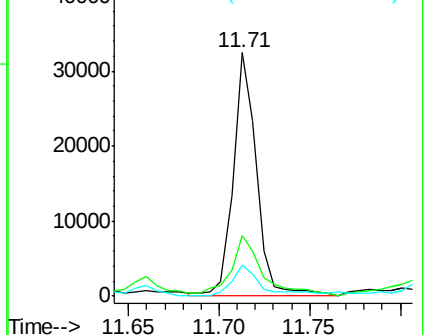
139 12.6 10.9 16.3

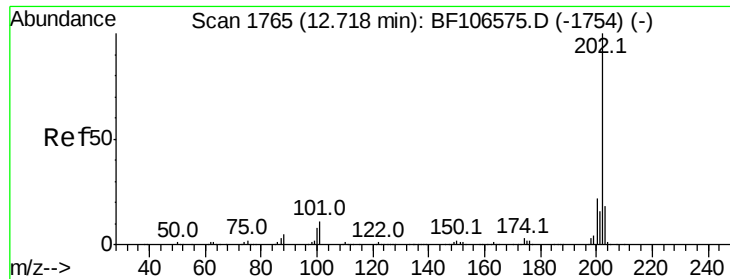


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





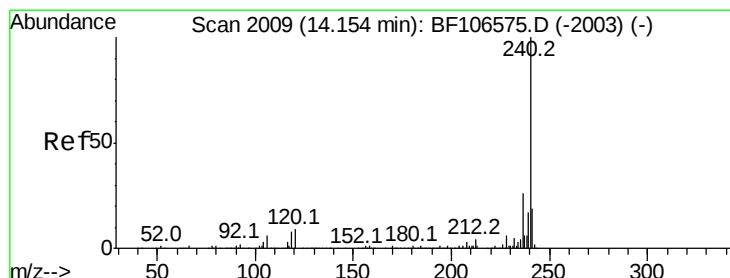
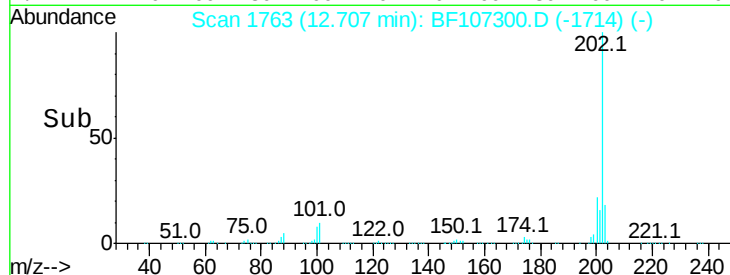
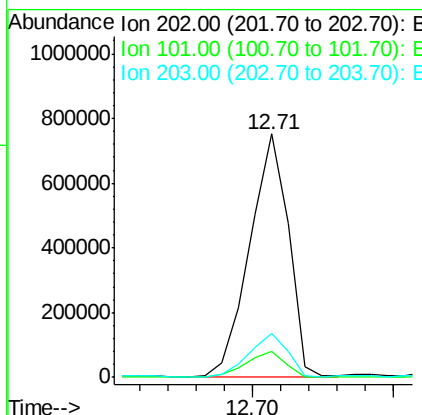
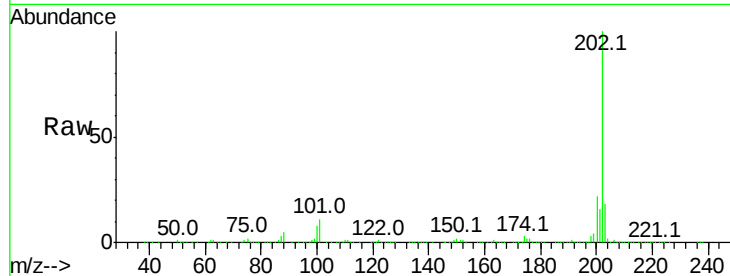
#74
 Fluoranthene
 Concen: 79.667 ng
 RT: 12.71 min Scan# 1763
 Delta R.T. -0.01 min
 Lab File: BF107300.D
 Acq: 11 Jul 2018 15:18

Instrument :
 BNA_F
 ClientSampled :
 EP-2-4

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	10.7	0.0	34.1
203	18.3	0.0	38.1

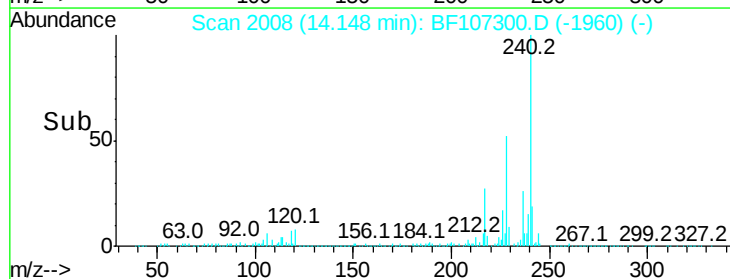
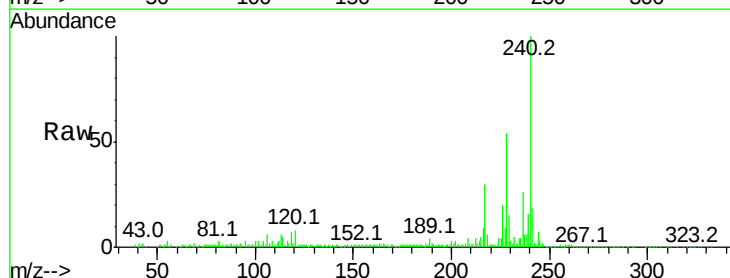
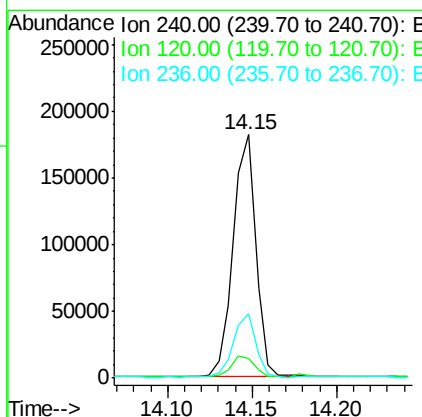
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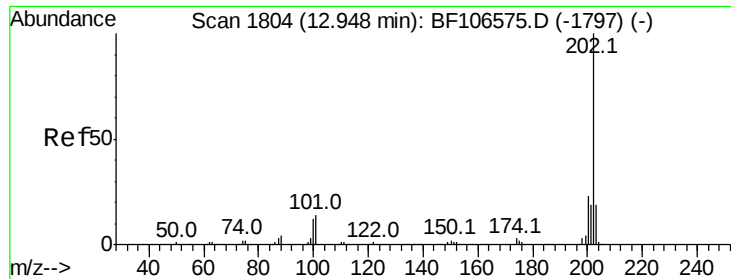
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#75
 Chrysene-d12
 Concen: 20.000 ng
 RT: 14.15 min Scan# 2008
 Delta R.T. -0.02 min
 Lab File: BF107300.D
 Acq: 11 Jul 2018 15:18

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	8.3	9.5	14.3#
236	26.2	20.7	31.1





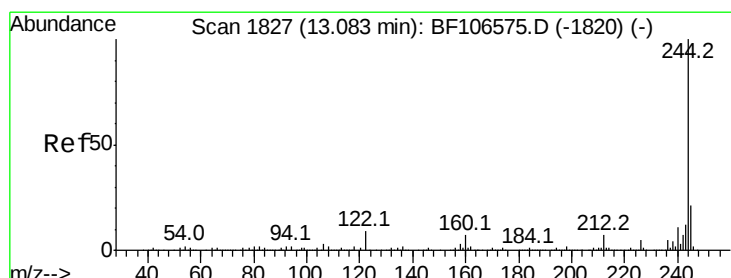
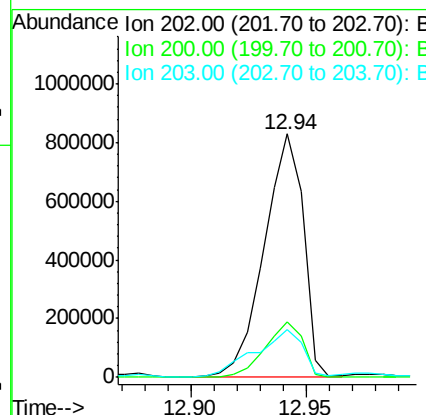
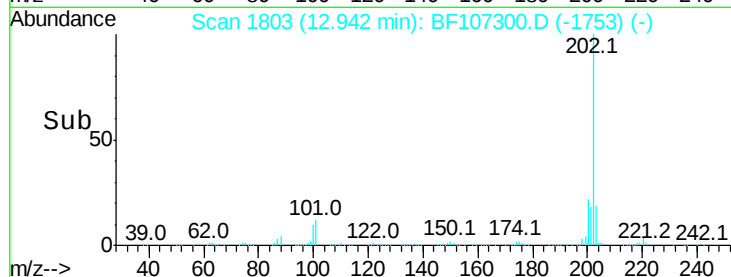
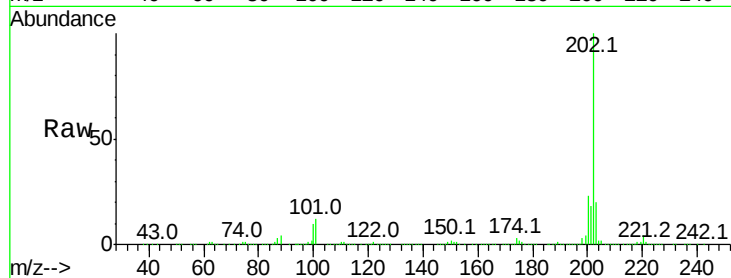
#77
Pvrene
Concen: 86.213 ng
RT: 12.94 min Scan# 1803
Delta R.T. -0.01 min
Lab File: BF107300.D
Acq: 11 Jul 2018 15:18

Instrument :
BNA_F
ClientSampleId :
EP-2-4

Tot Ion	Ratio	Lower	Upper
202	100		
200	22.6	17.4	26.2
203	19.7	14.3	21.5

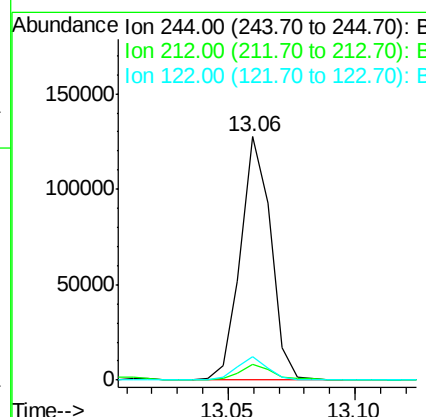
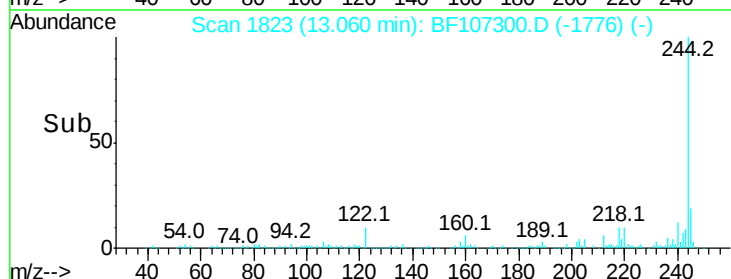
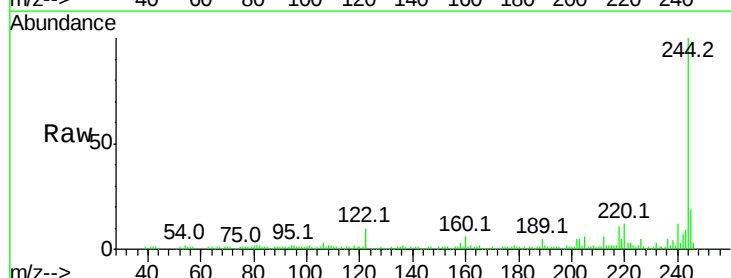
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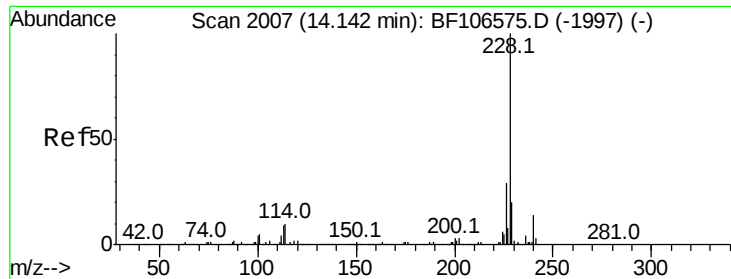
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#78
Terphenyl-d14
Concen: 15.019 ng
RT: 13.06 min Scan# 1823
Delta R.T. -0.02 min
Lab File: BF107300.D
Acq: 11 Jul 2018 15:18

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.4	8.0
122	9.5	11.0	16.4#





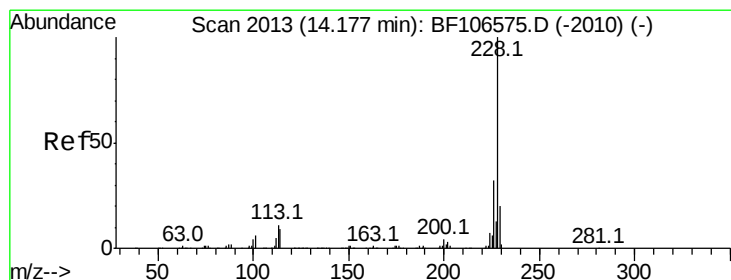
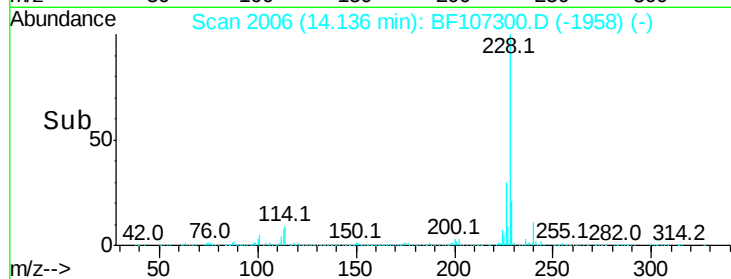
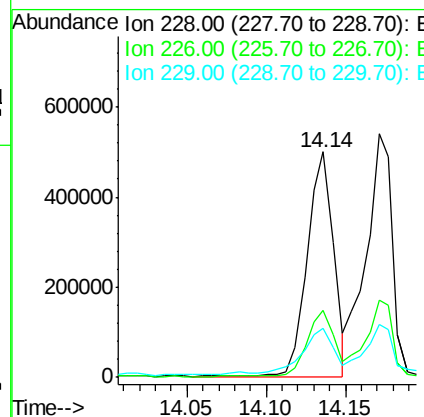
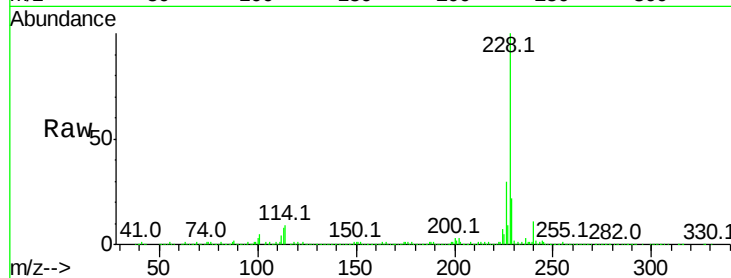
#80
Benzo(a)anthracene
Concen: 54.845 ng
RT: 14.14 min Scan# 2006
Delta R.T. -0.02 min
Lab File: BF107300.D
Acq: 11 Jul 2018 15:18

Instrument :
BNA_F
ClientSampleId :
EP-2-4

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.9	22.6	33.8
229	21.9	15.8	23.6

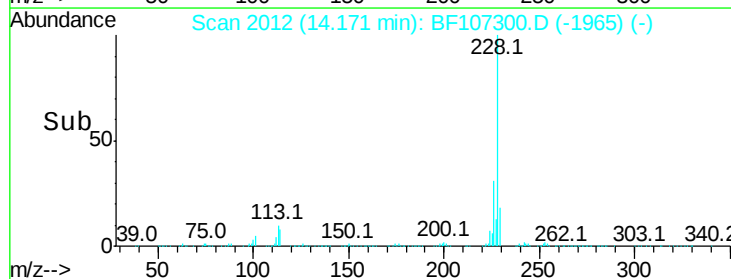
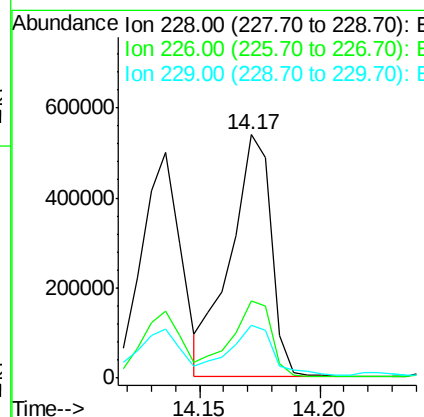
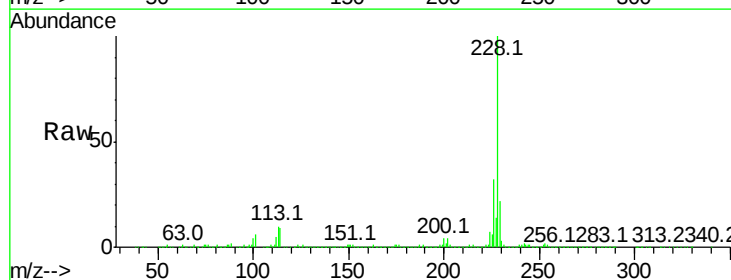
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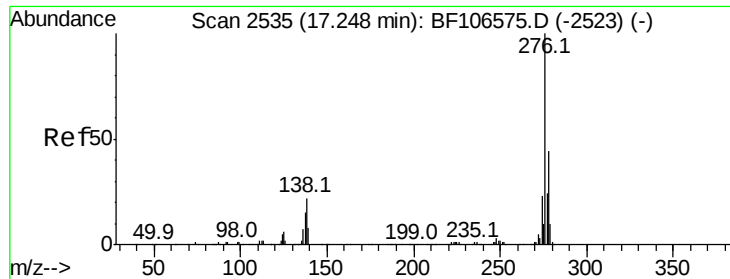
Sohil
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#82
Chrysene
Concen: 65.473 ng m
RT: 14.17 min Scan# 2012
Delta R.T. -0.02 min
Lab File: BF107300.D
Acq: 11 Jul 2018 15:18

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.9	25.0	37.6
229	21.7	16.2	24.4





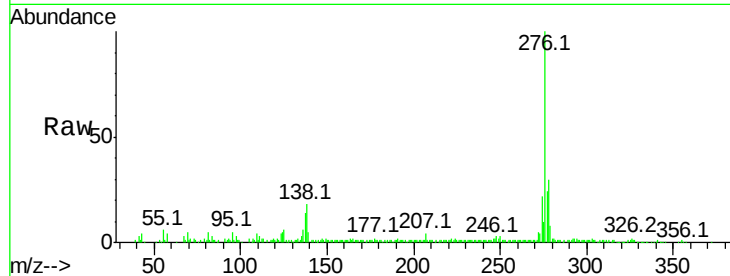
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 23.149 ng
 RT: 17.29 min Scan# 2543
 Delta R.T. -0.01 min
 Lab File: BF107300.D
 Acq: 11 Jul 2018 15:18

Instrument :
 BNA_F
 ClientSampleId :
 EP-2-4

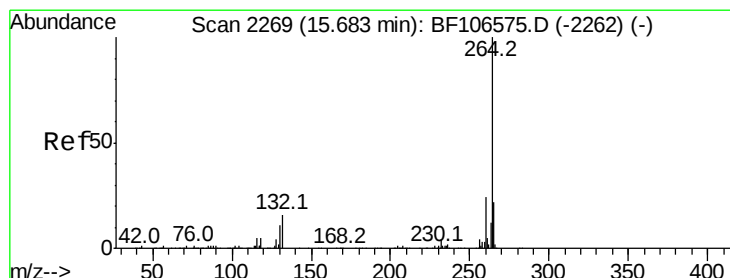
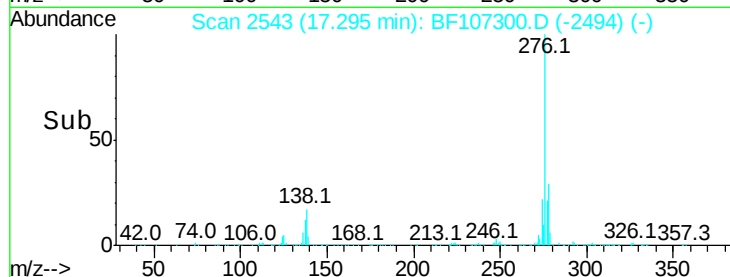
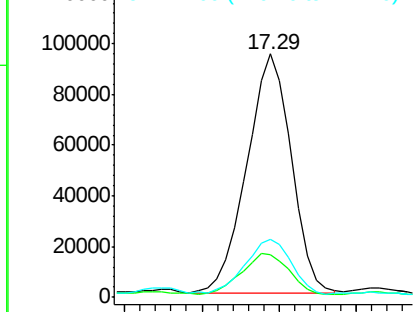
Tot Ion	Ratio	Lower	Upper
276	100		
138	1.6	25.0	37.6#
277	1.2	20.1	30.1#

Manual Integrations
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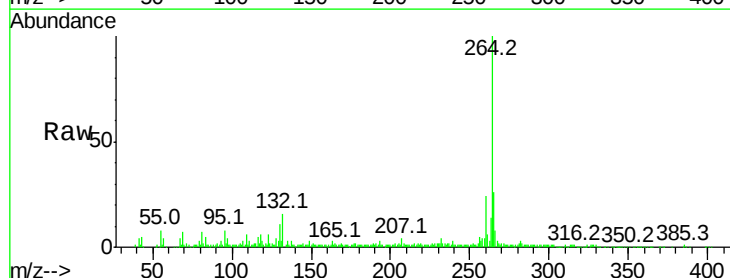


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

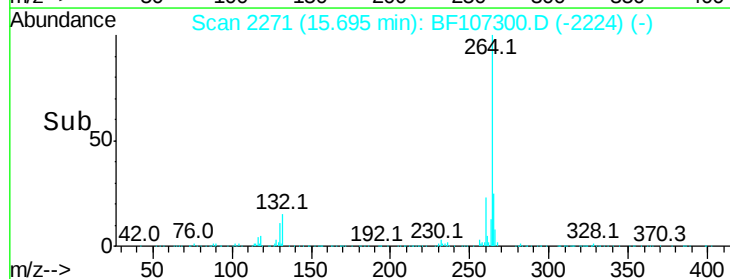
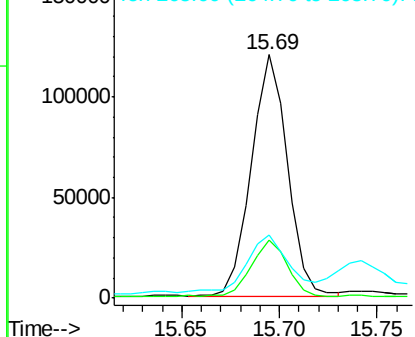


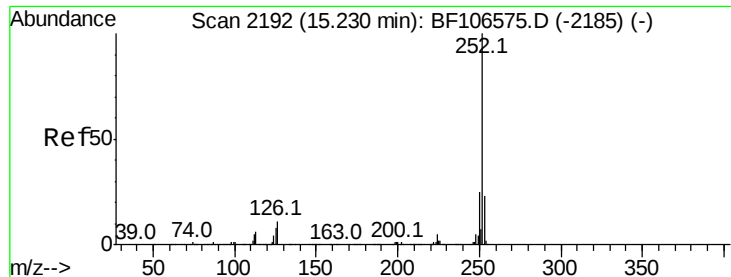
#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.69 min Scan# 2271
 Delta R.T. -0.02 min
 Lab File: BF107300.D
 Acq: 11 Jul 2018 15:18

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	26.0	17.5	26.3



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





#87

Benzo(b)fluoranthene

Concen: 57.706 ng m

RT: 15.24 min Scan# 2193

Delta R.T. -0.02 min

Lab File: BF107300.D

Acq: 11 Jul 2018 15:18

Instrument :

BNA_F

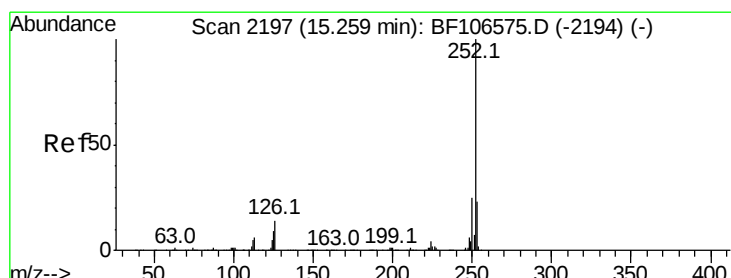
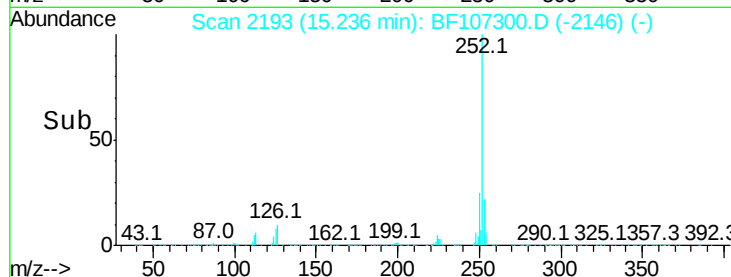
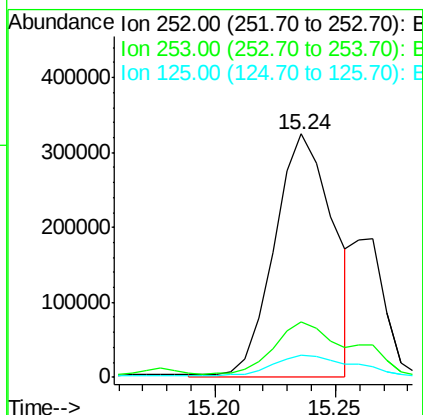
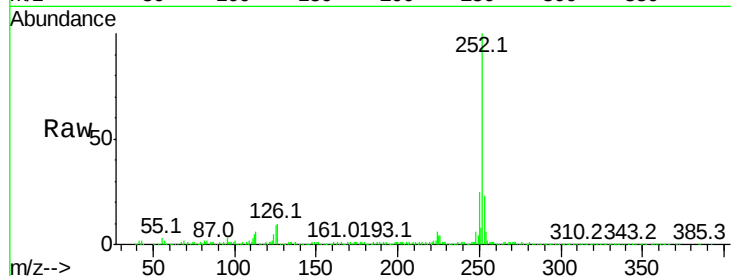
ClientSampled :

EP-2-4

Tot Ion:	252	Resp:	549553
Ion Ratio	Lower	Upper	
252	100		
253	23.0	17.0	25.6
125	9.2	9.0	13.6

Manual Integrations
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#88

Benzo(k)fluoranthene

Concen: 18.997 ng m

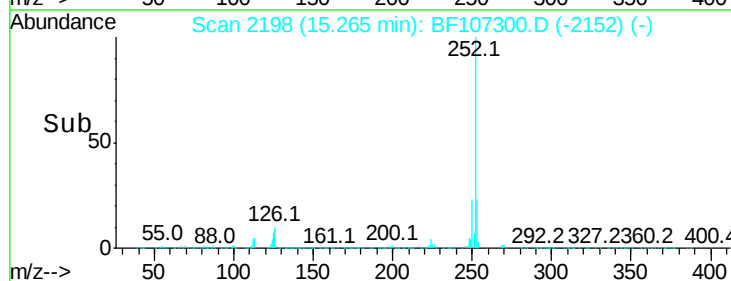
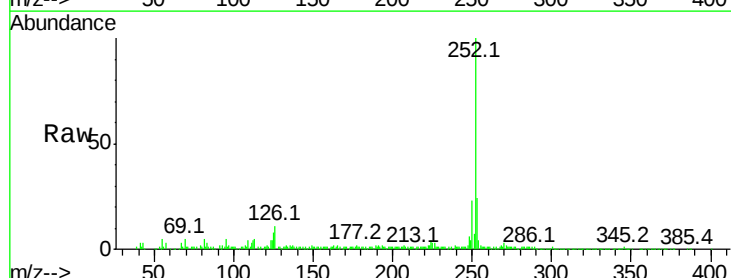
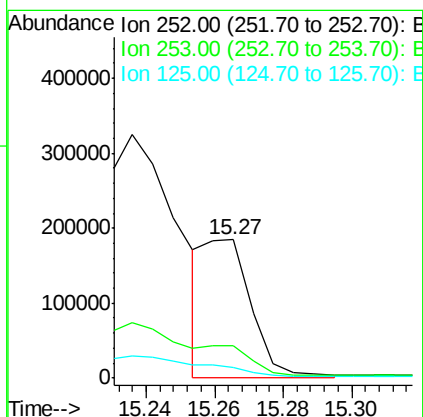
RT: 15.27 min Scan# 2198

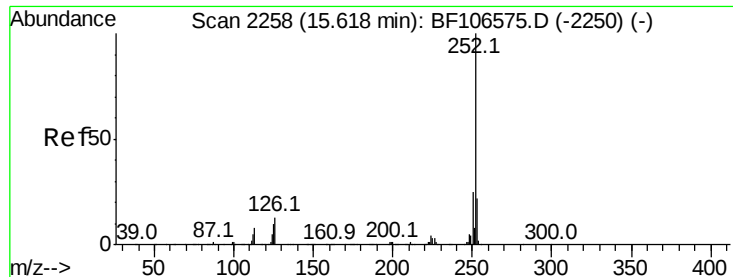
Delta R.T. -0.03 min

Lab File: BF107300.D

Acq: 11 Jul 2018 15:18

Tgt Ion:	252	Resp:	172285
Ion Ratio	Lower	Upper	
252	100		
253	23.6	17.9	26.9
125	7.8	10.2	15.2#





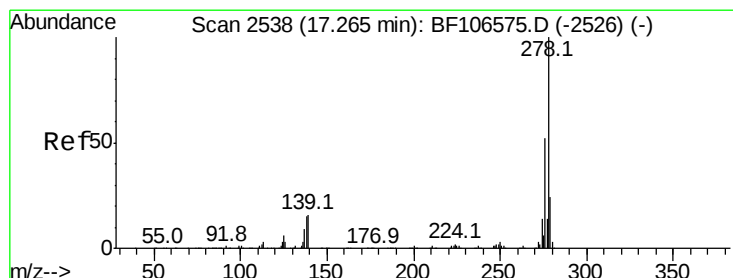
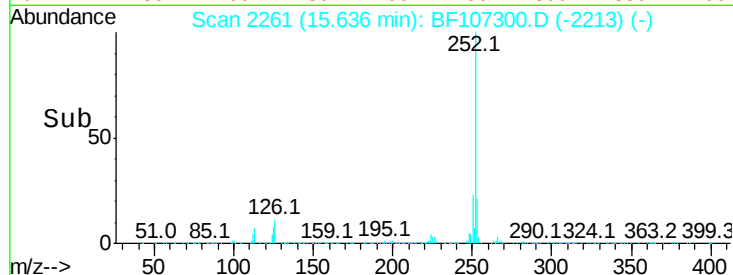
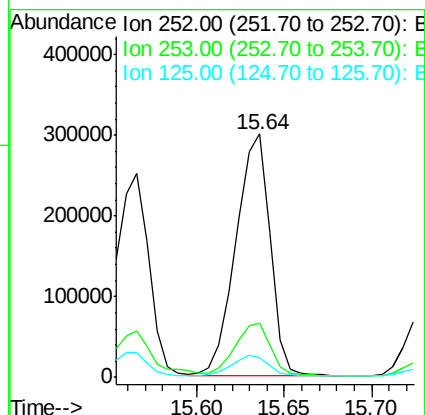
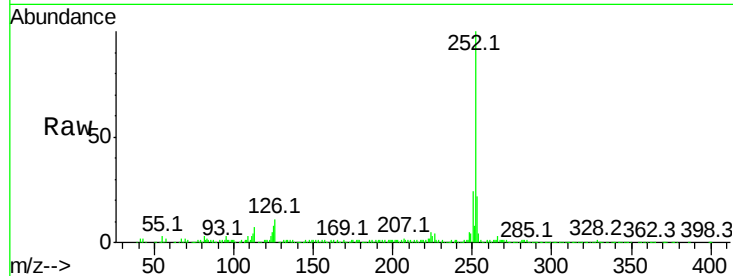
#89
Benzo(a)pyrene
Concen: 48.331 ng/ml
RT: 15.64 min Scan# 2261
Delta R.T. -0.02 min
Lab File: BF107300.D
Acq: 11 Jul 2018 15:18

Instrument :
BNA_F
ClientSampleId :
EP-2-4

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.1	25.7
125	8.3	9.8	14.6

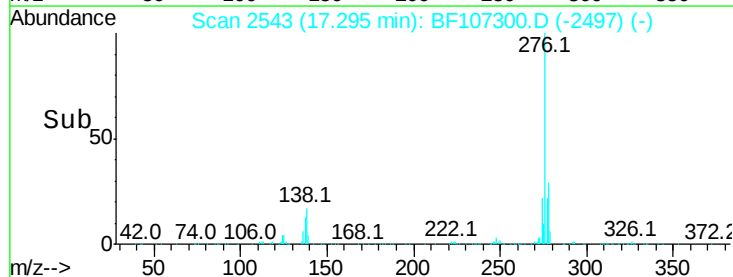
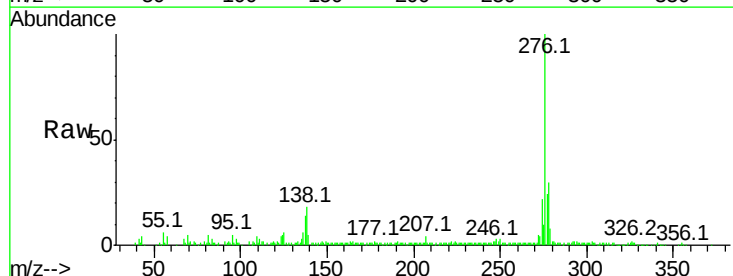
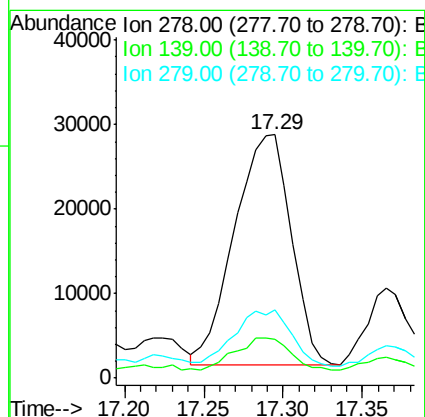
Manual Integrations
APPROVED

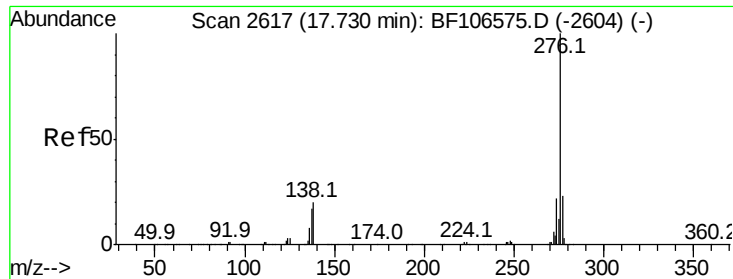
Sohil
7/12/2018 2:19:18 PM



#90
Dibenzo(a,h)anthracene
Concen: 9.379 ng
RT: 17.29 min Scan# 2543
Delta R.T. -0.03 min
Lab File: BF107300.D
Acq: 11 Jul 2018 15:18

Tgt Ion	Ratio	Lower	Upper
278	100		
139	15.9	15.9	23.9
279	28.0	19.0	28.4





#91
 Benzo(a,h,i)perylene
 Concen: 32.646 ng
 RT: 17.79 min Scan# 2627
 Delta R.T. -0.00 min
 Lab File: BF107300.D
 Acq: 11 Jul 2018 15:18

Instrument :
 BNA_F
 ClientSampleId :
 EP-2-4

Tot Ion	Ratio	Resp Lower	Upper
276	100		
277	24.8	17.9	26.9
138	19.2	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 7/12/2018 2:19:18 PM

