

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051319\
 Data File : BF114226.D
 Acq On : 13 May 2019 14:05
 Operator : JU/SJ
 Sample : K2767-12
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 P026-SS012-0002-01

Manual Integrations
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Sohil
 5/14/2019 8:03:08 PM

Quant Time: May 14 05:13:30 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 10 15:56:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	292375	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	1119906	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	525303	20.00	ng	0.00
64) Phenanthrene-d10	11.38	188	973697	20.00	ng	0.01
76) Chrysene-d12	14.03	240	481595	20.00	ng	0.01
87) Perylene-d12	15.53	264	643919	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	1561674	85.96	ng	0.02
7) Phenol-d6	6.51	99	2089207	97.23	ng	0.02
23) Nitrobenzene-d5	7.42	82	1369201	68.61	ng	0.00
42) 2,4,6-Tribromophenol	10.69	330	436867	80.44	ng	0.01
45) 2-Fluorobiphenyl	9.21	172	1835697	52.86	ng	0.00
79) Terphenyl-d14	12.96	244	1407901	60.26	ng	0.00
Target Compounds						
31) Naphthalene	8.16	128	820089	15.677	ng	Qvalue 98
32) Benzoic acid	7.88	122	11412m	7.903	ng	
37) 2-Methylnaphthalene	8.85	142	365510	10.829	ng	97
38) 1-Methylnaphthalene	8.95	142	249511	7.850	ng	99
46) 1,1'-Biphenyl	9.31	154	166197	3.916	ng	97
49) Acenaphthylene	9.75	152	1385724	26.677	ng	99
50) Dimethylphthalate	9.60	163	443260	11.495	ng	100
58) Fluorene	10.44	166	182070	5.043	ng	96
71) Phenanthrene	11.41	178	3691572	77.928	ng	98
72) Anthracene	11.46	178	643683	13.528	ng	98
75) Fluoranthene	12.61	202	4304714	84.384	ng	94
78) Pylene	12.85	202	6702969	173.016	ng	94
81) Benzo(a)anthracene	14.03	228	2941043	94.418	ng	# 80
83) Chrysene	14.07	228	3235378	105.956	ng	96
86) Indeno(1,2,3-cd)pyrene	17.03	276	1759433	65.197	ng	96
88) Benzo(b)fluoranthene	15.10	252	3651447m	88.513	ng	
89) Benzo(k)fluoranthene	15.12	252	1281215m	33.809	ng	
90) Benzo(a)pyrene	15.47	252	3033712	83.559	ng	99
91) Dibenzo(a,h)anthracene	17.02	278	485363	16.088	ng	98
92) Benzo(a,h,i)perylene	17.48	276	1956771	64.722	ng	99

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

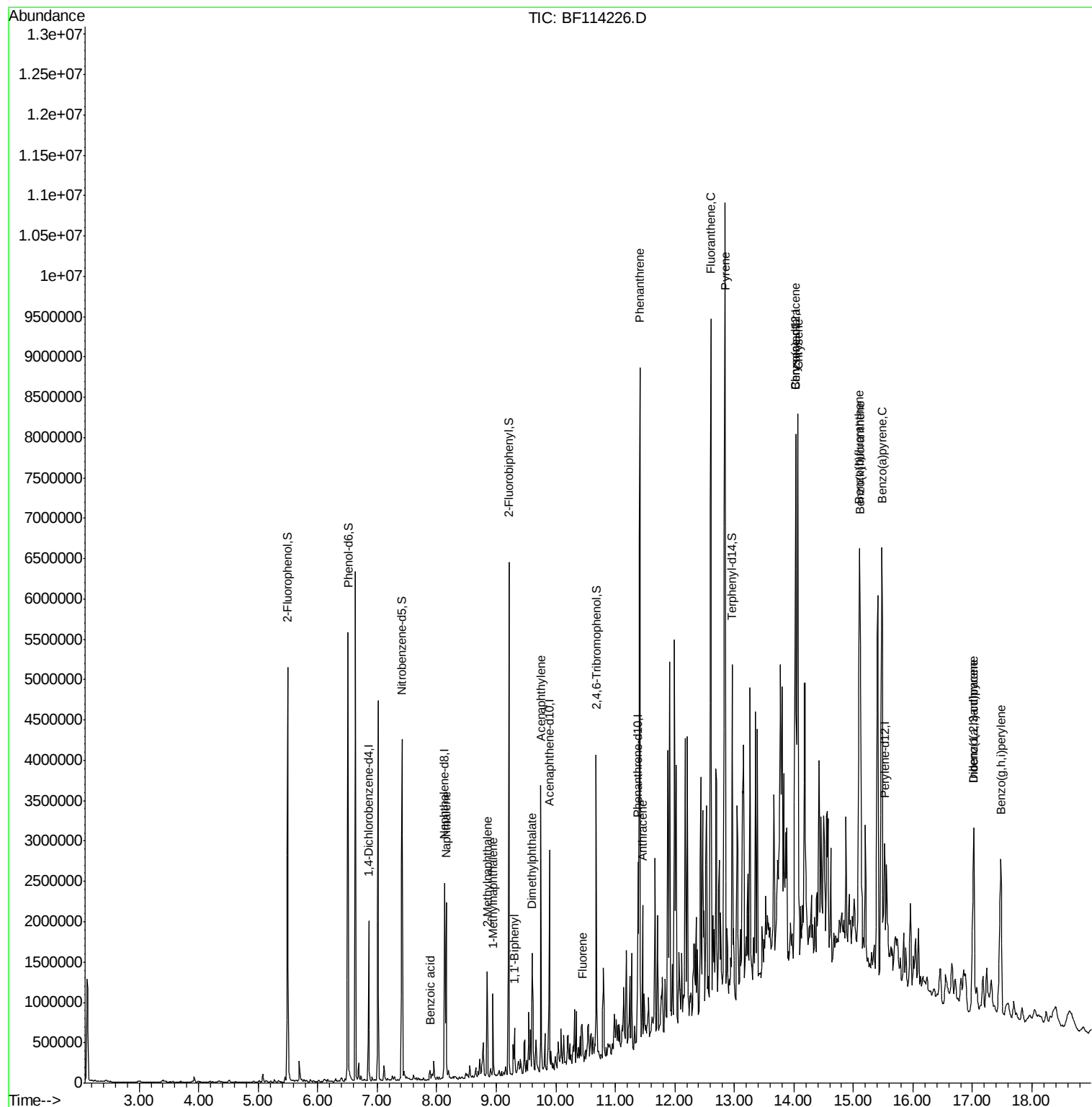
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051319\
Data File : BF114226.D
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ALS Vial : 7 Sample Multiplier: 1

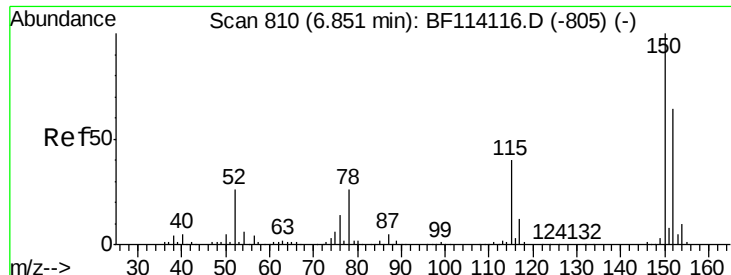
Instrument :
BNA_F
ClientSampleId :
P026-SS012-0002-01

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Quant Time: May 14 05:13:30 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 10 15:56:46 2019
Response via : Initial Calibration





#1

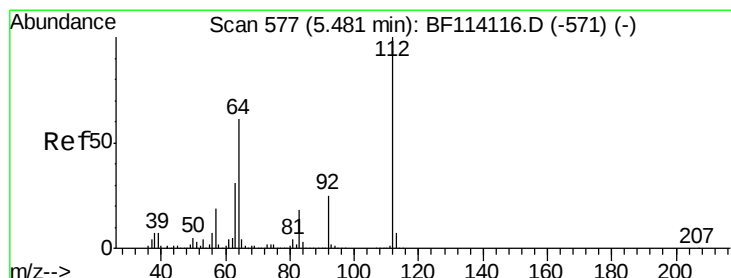
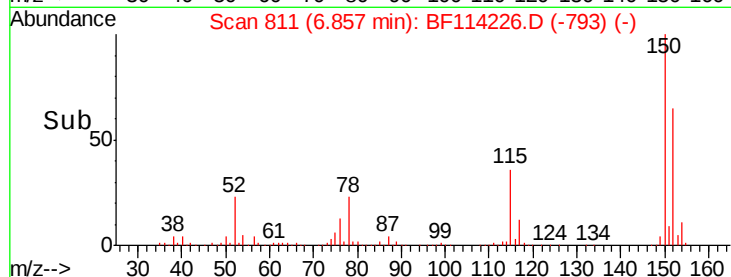
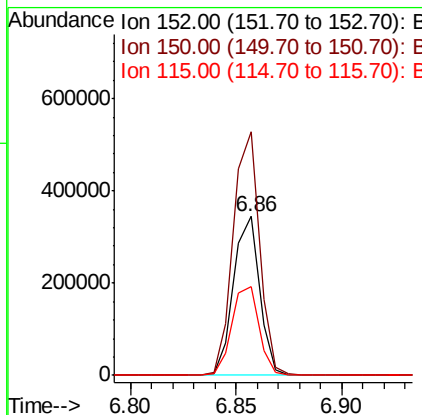
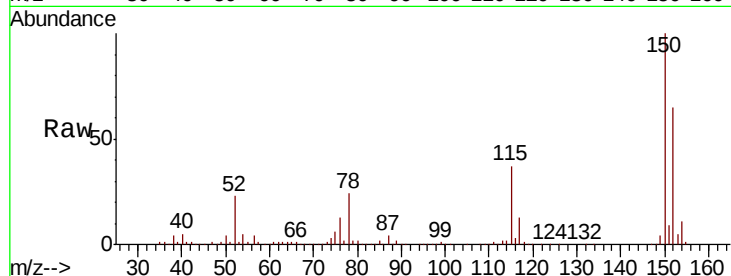
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.86 min Scan# 811
Delta R.T. 0.01 min
Lab File: BF114226.D
Acq: 13 May 2019 14:05

Instrument :
BNA_F
ClientSampleId :
P026-SS012-0002-01

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.6	124.3	186.5
115	56.1	49.1	73.7

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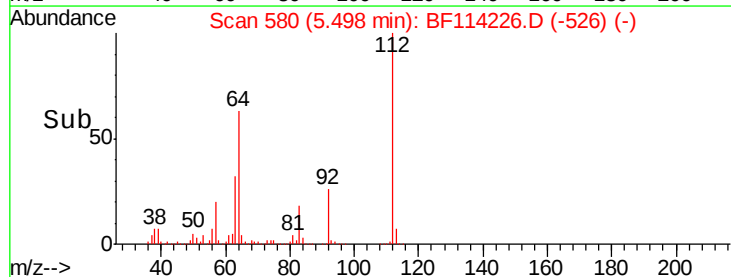
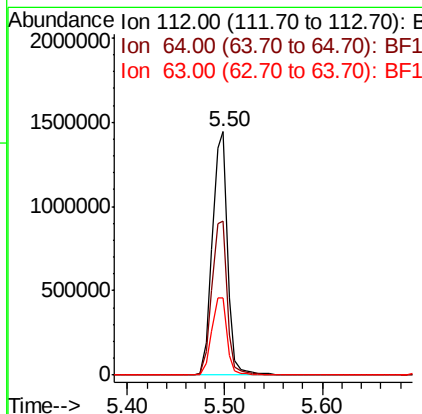
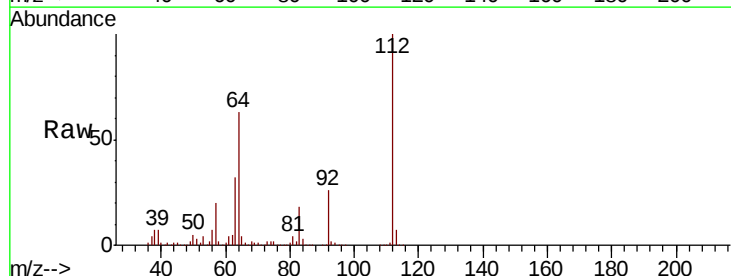
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#5

2-Fluorophenol
Concen: 85.956 ng
RT: 5.50 min Scan# 580
Delta R.T. 0.02 min
Lab File: BF114226.D
Acq: 13 May 2019 14:05

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.1	49.0	73.6
63	31.7	24.6	37.0





#7

Phenol-d6

Concen: 97.226 ng

RT: 6.51 min Scan# 752

Delta R.T. 0.02 min

Lab File: BF114226.D

Acq: 13 May 2019 14:05

Instrument :

BNA_F

ClientSampleId :

P026-SS012-0002-01

Tot Ion: 99 Resp: 2089207

Ion Ratio Lower Upper

99 100

42 21.4 17.9 26.9

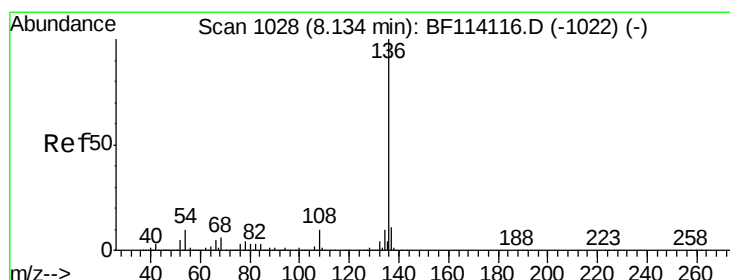
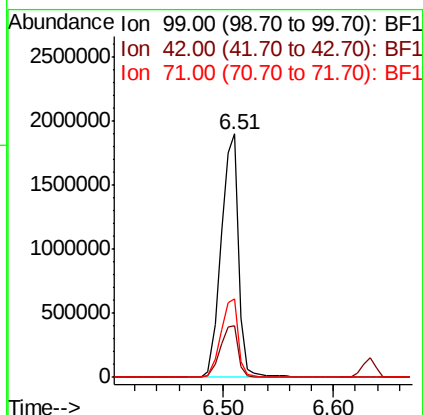
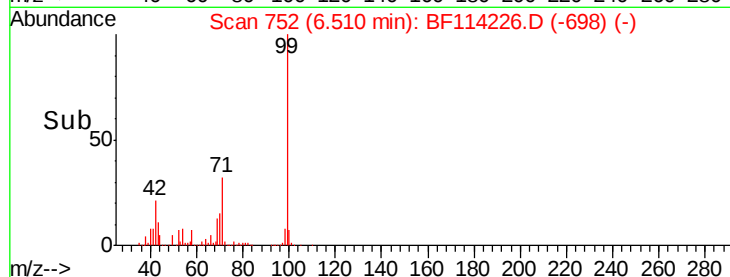
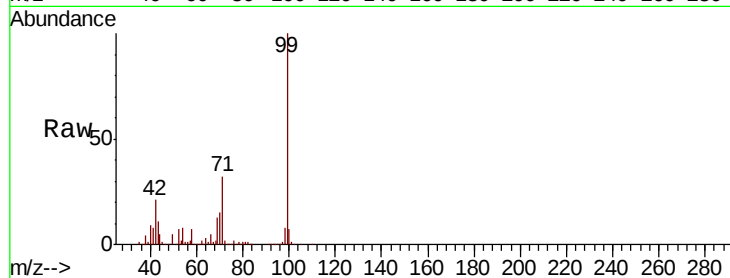
71 32.4 26.2 39.2

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.13 min Scan# 1028

Delta R.T. -0.00 min

Lab File: BF114226.D

Acq: 13 May 2019 14:05

Tgt Ion: 136 Resp: 1119906

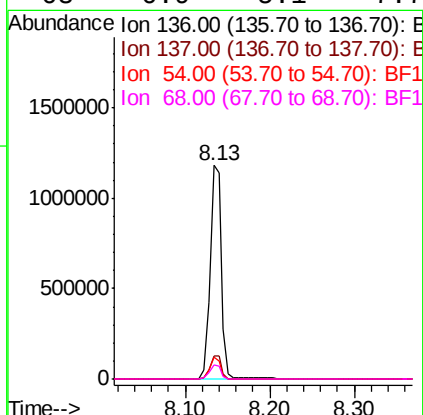
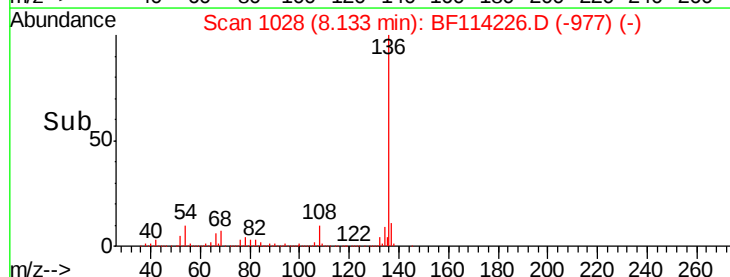
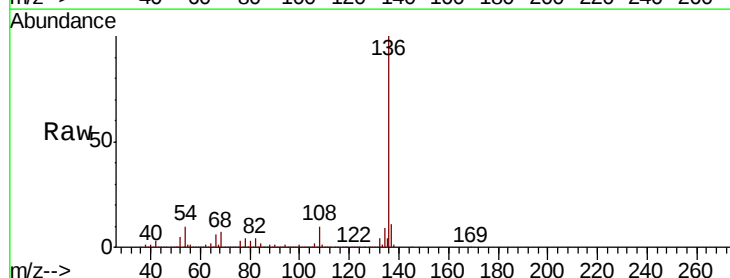
Ion Ratio Lower Upper

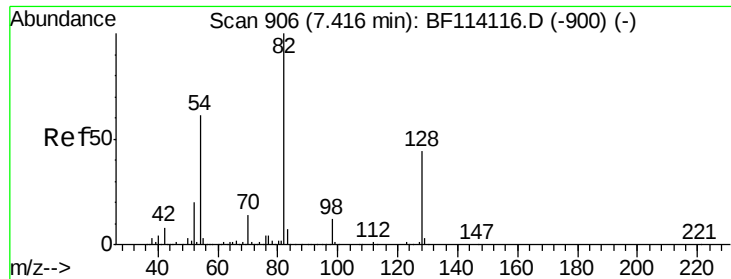
136 100

137 10.9 8.8 13.2

54 10.1 7.8 11.8

68 6.9 5.1 7.7





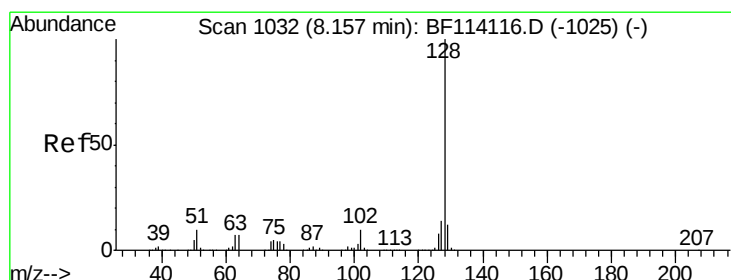
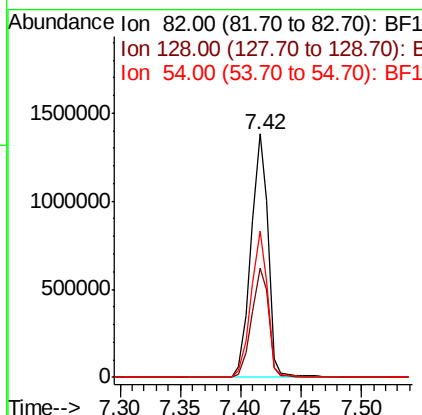
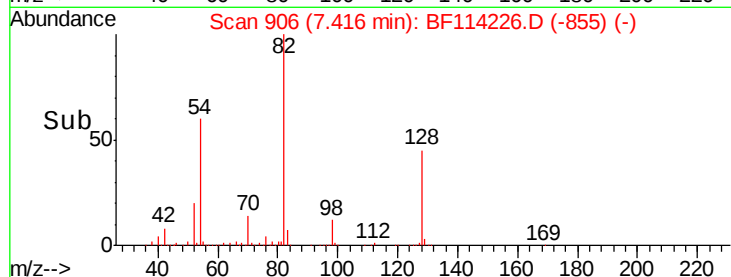
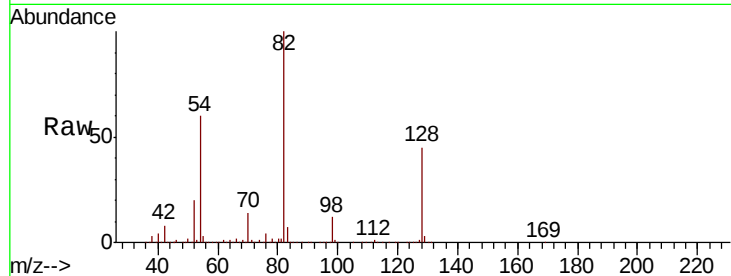
#23
Nitrobenzene-d5
Concen: 68.613 ng
RT: 7.42 min Scan# 906
Delta R.T. -0.00 min
Lab File: BF114226.D
Acq: 13 May 2019 14:05

Instrument :
BNA_F
ClientSampleId :
P026-SS012-0002-01

Tot Ion	Ratio	Lower	Upper
82	100		
128	44.7	35.5	53.3
54	60.0	48.5	72.7

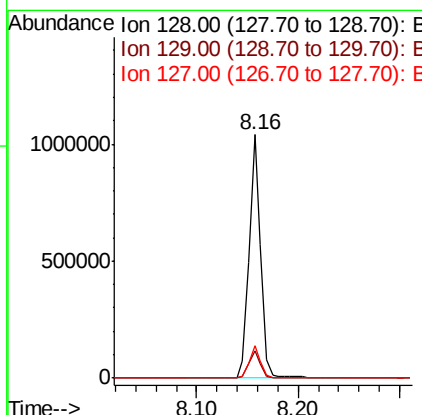
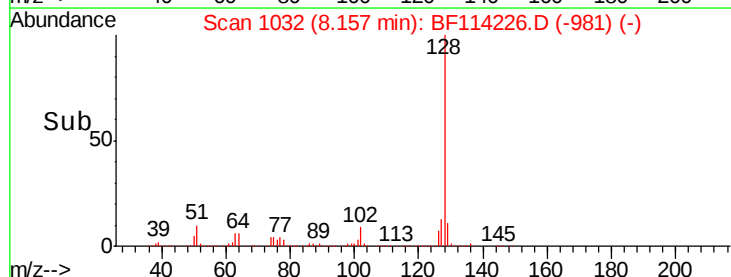
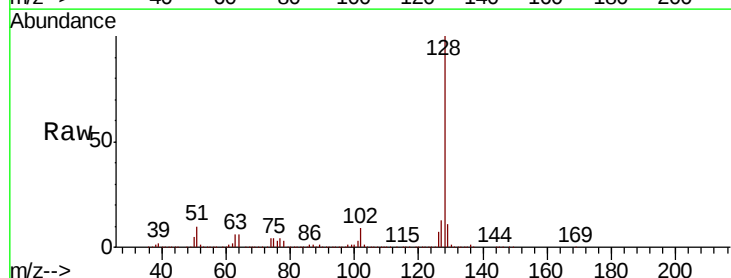
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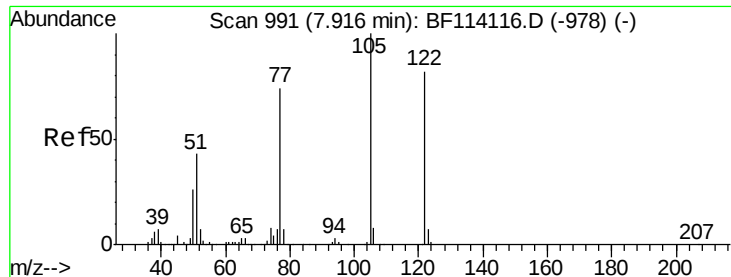
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#31
Naphthalene
Concen: 15.677 ng
RT: 8.16 min Scan# 1032
Delta R.T. -0.00 min
Lab File: BF114226.D
Acq: 13 May 2019 14:05

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.6	14.4
127	13.3	11.3	16.9





#32

Benzoic acid

Concen: 7.903 ng/mL

RT: 7.88 min Scan# 985

Delta R.T. -0.03 min

Lab File: BF114226.D

Acq: 13 May 2019 14:05

Instrument :

BNA_F

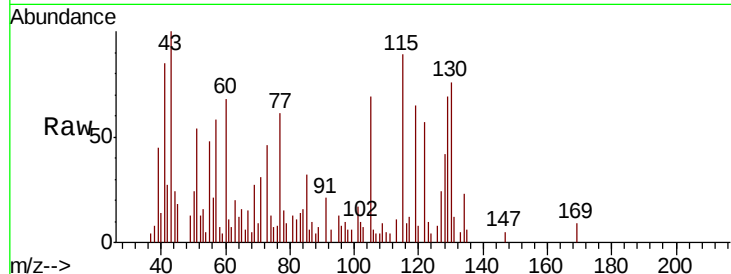
ClientSampleId :

P026-SS012-0002-01

Tot Ion:	122	Resp:	11412
Ion Ratio	Lower	Upper	
122	100		
105	120.5	99.9	139.9
77	107.5	69.4	109.4

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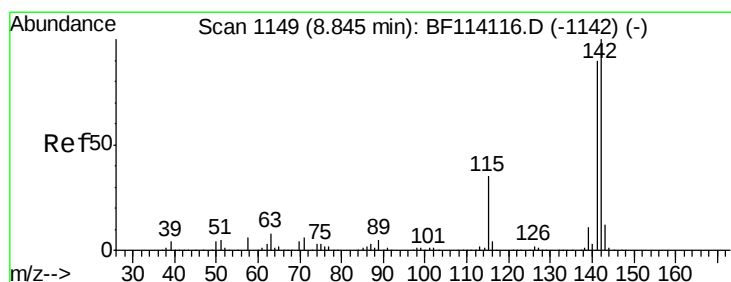
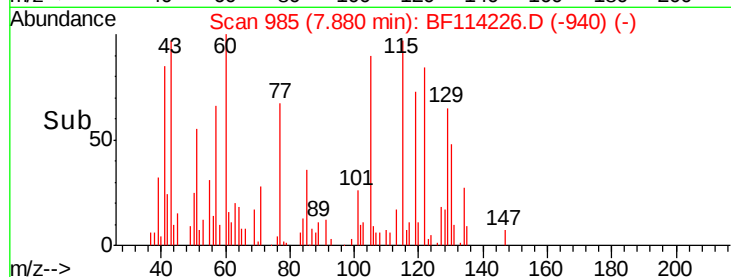
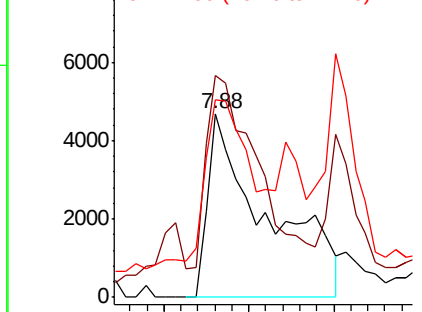


Abundance

Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1



#37

2-Methylnaphthalene

Concen: 10.829 ng/mL

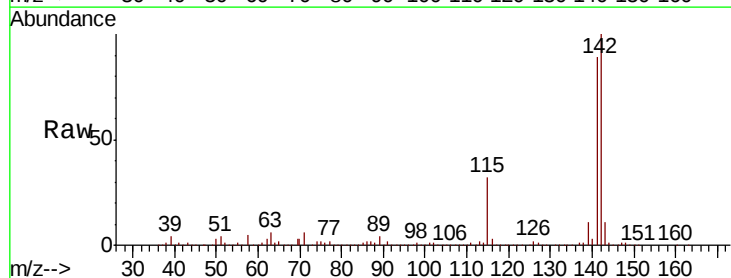
RT: 8.85 min Scan# 1150

Delta R.T. 0.01 min

Lab File: BF114226.D

Acq: 13 May 2019 14:05

Tgt Ion:	142	Resp:	365510
Ion Ratio	Lower	Upper	
142	100		
141	88.7	72.1	108.1
115	32.0	28.0	42.0

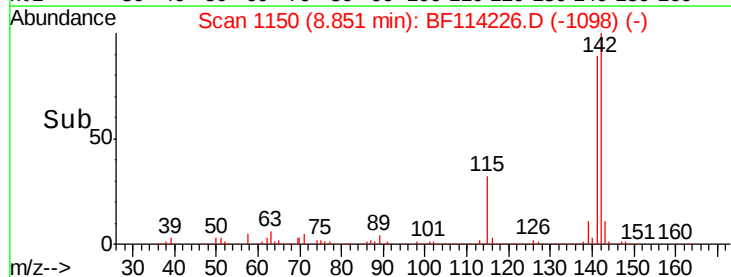
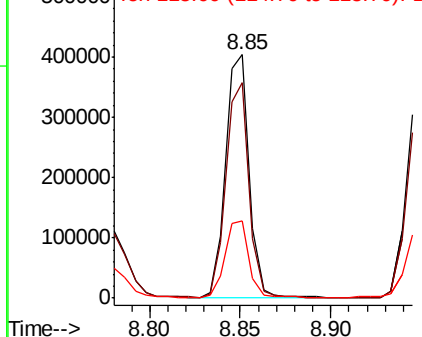


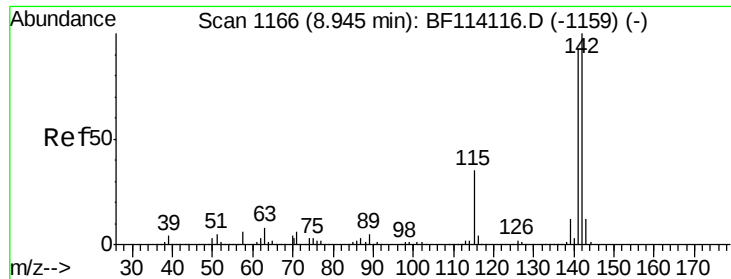
Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





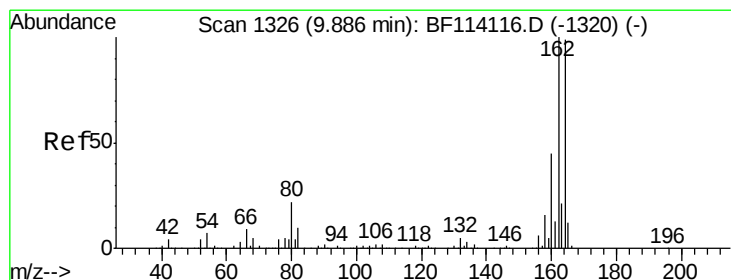
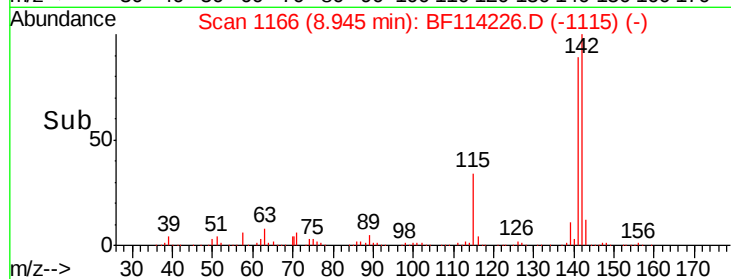
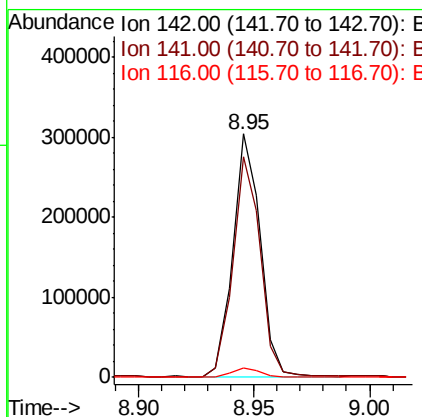
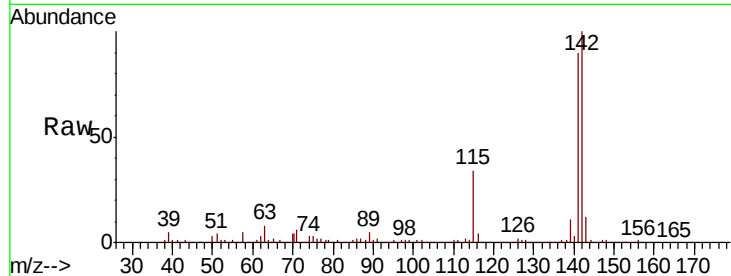
#38
1-Methylnaphthalene
Concen: 7.850 ng
RT: 8.95 min Scan# 1166
Delta R.T. -0.00 min
Lab File: BF114226.D
Acq: 13 May 2019 14:05

Instrument :
BNA_F
ClientSampleId :
P026-SS012-0002-01

Tot Ion	Ratio	Resp	Lower	Upper
142	100	249511		
141	90.4	73.4	110.0	
116	3.7	3.1	4.7	

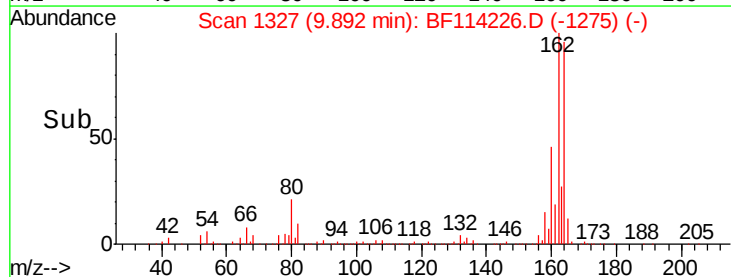
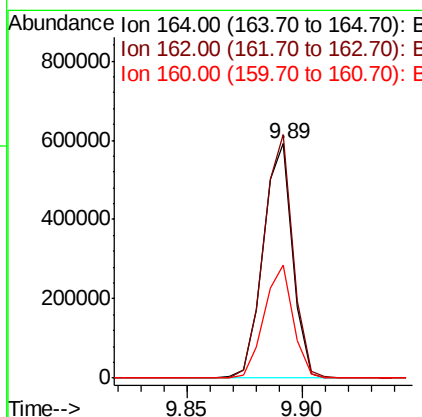
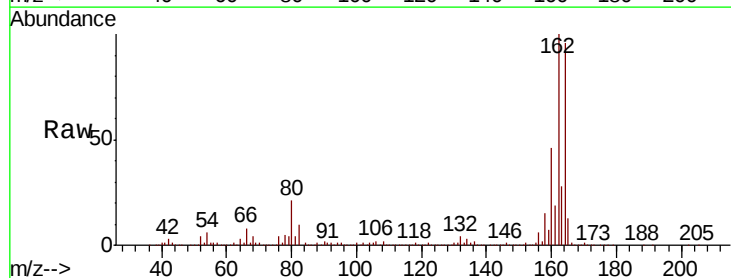
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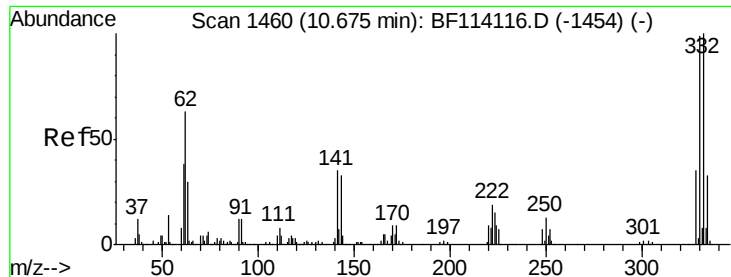
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1327
Delta R.T. 0.01 min
Lab File: BF114226.D
Acq: 13 May 2019 14:05

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	525303		
162	104.0	80.6	120.8	
160	48.1	36.5	54.7	





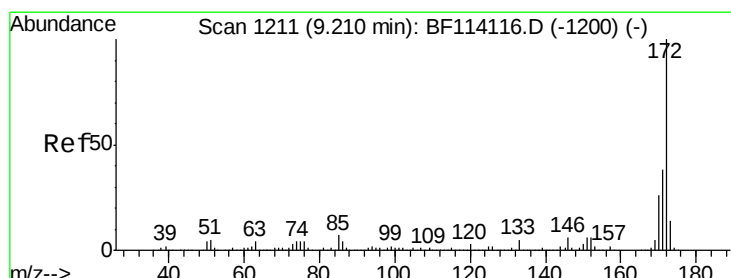
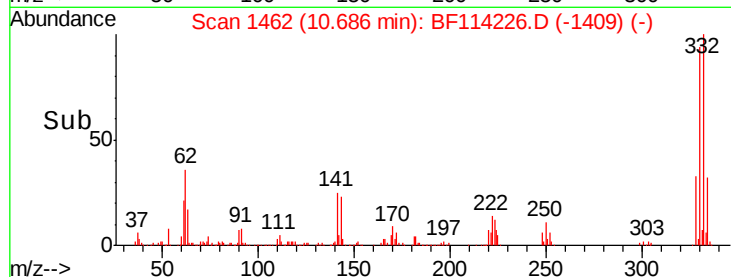
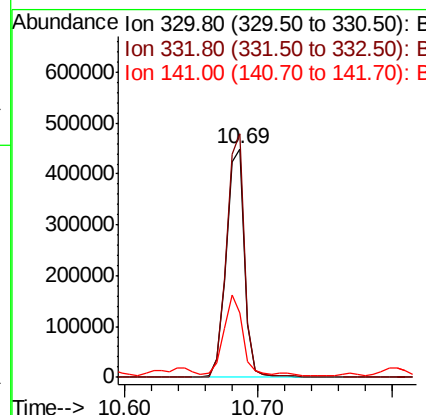
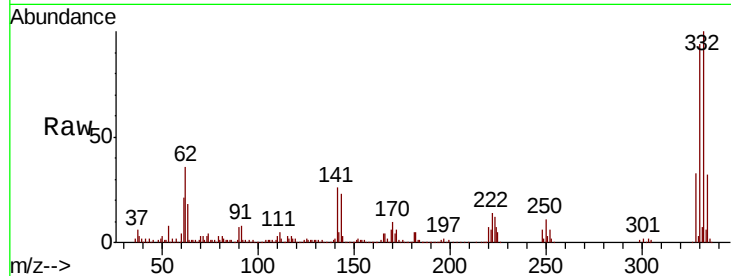
#42
 2,4,6-Tribromophenol
 Concen: 80.443 ng
 RT: 10.69 min Scan# 1462
 Delta R.T. 0.01 min
 Lab File: BF114226.D
 Acq: 13 May 2019 14:05

Instrument :
 BNA_F
 ClientSampleId :
 P026-SS012-0002-01

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	104.8	436867	81.4	122.2
141	34.9		26.6	40.0

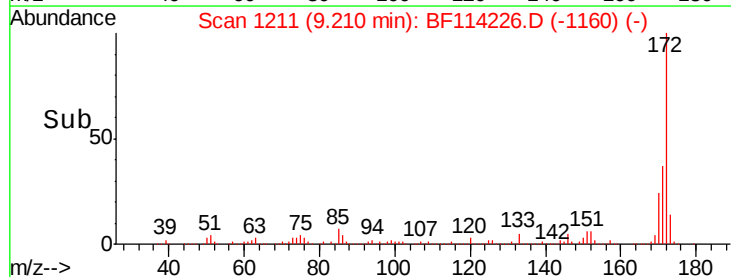
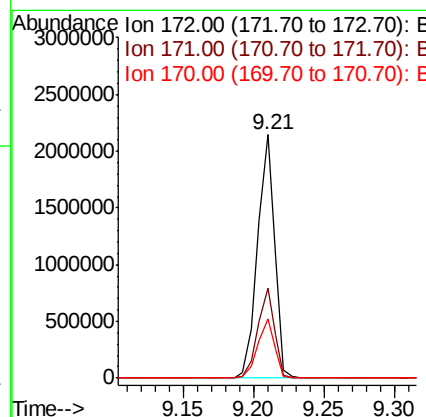
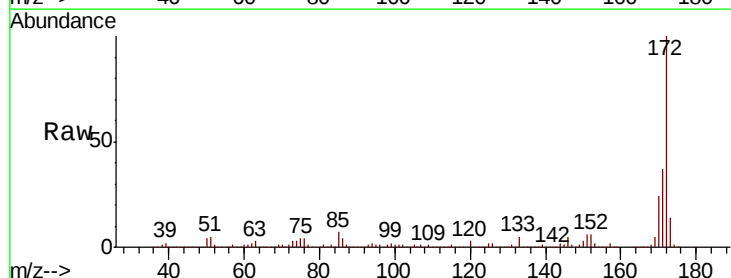
Manual Integrations
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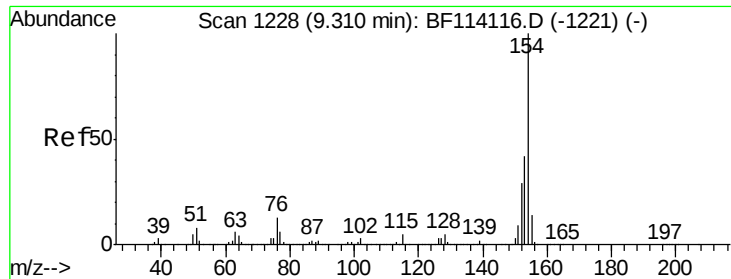
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#45
 2-Fluorobiphenyl
 Concen: 52.861 ng
 RT: 9.21 min Scan# 1211
 Delta R.T. -0.00 min
 Lab File: BF114226.D
 Acq: 13 May 2019 14:05

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1835697		
171	36.9		30.7	46.1
170	24.4		20.5	30.7





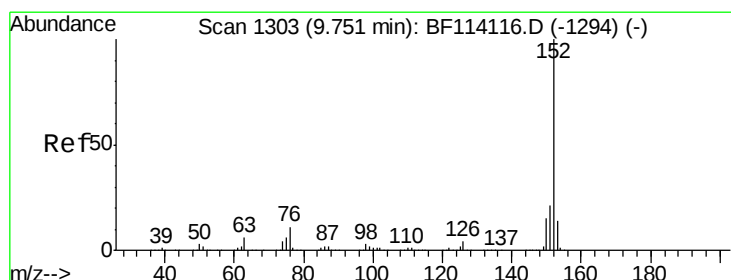
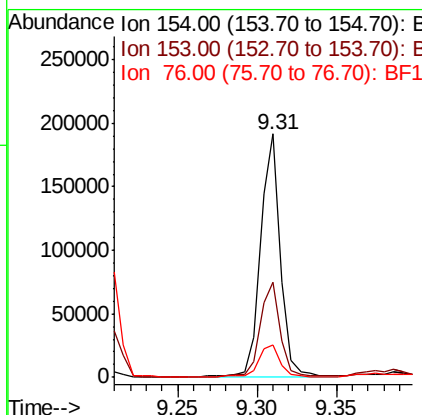
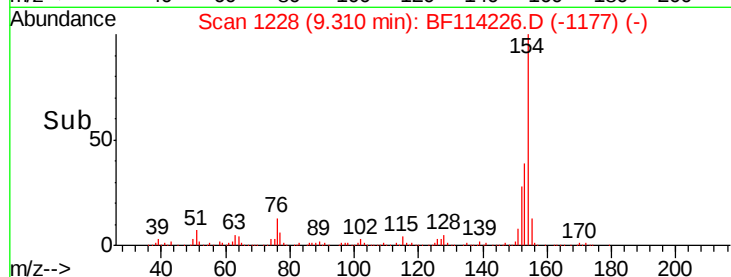
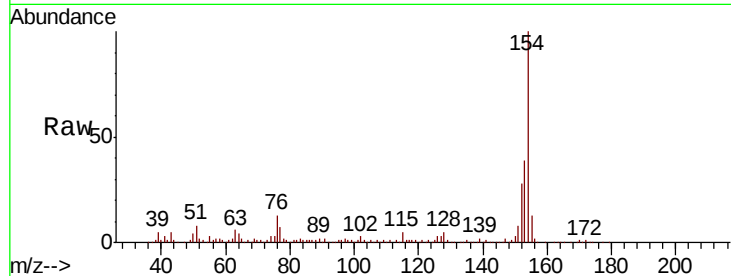
#46
1,1'-Biphenyl
Concen: 3.916 ng
RT: 9.31 min Scan# 1228
Delta R.T. -0.00 min
Lab File: BF114226.D
Acq: 13 May 2019 14:05

Instrument :
BNA_F
ClientSampleId :
P026-SS012-0002-01

Tot Ion:	154	Resp:	166197
Ion Ratio	Lower	Upper	
154	100		
153	39.2	21.9	61.9
76	13.1	0.0	32.8

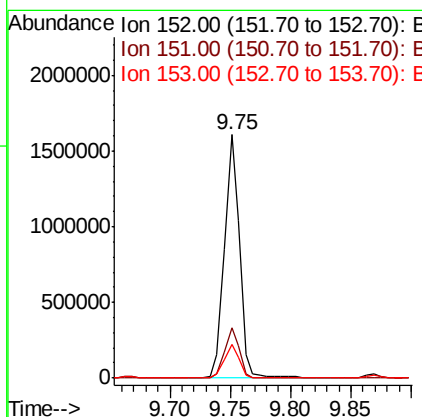
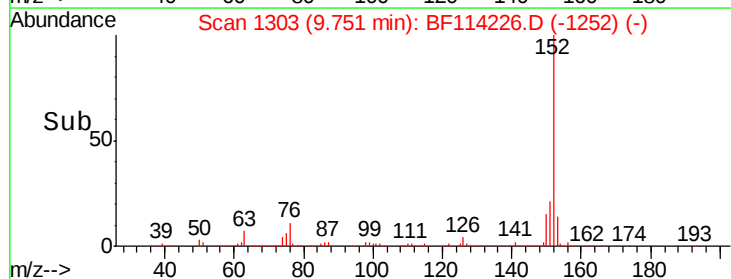
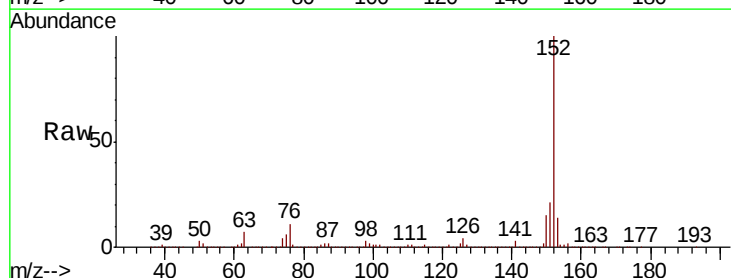
Manual Integrations
APPROVED

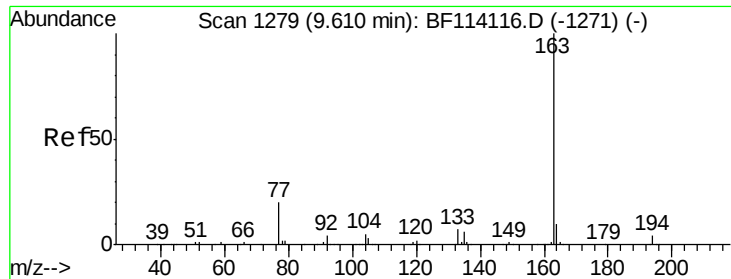
Sohil
5/14/2019 8:03:08 PM



#49
Acenaphthylene
Concen: 26.677 ng
RT: 9.75 min Scan# 1303
Delta R.T. -0.00 min
Lab File: BF114226.D
Acq: 13 May 2019 14:05

Tgt Ion:	152	Resp:	1385724
Ion Ratio	Lower	Upper	
152	100		
151	20.9	16.8	25.2
153	13.7	11.4	17.2





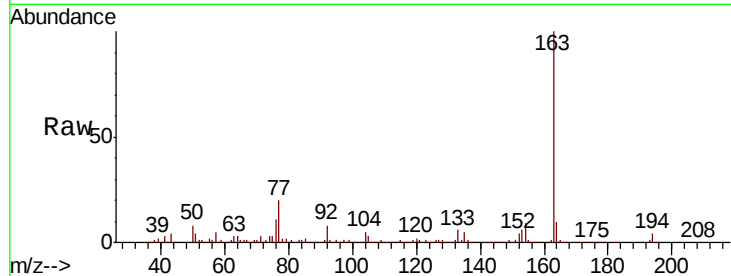
#50
Dimethylphthalate
Concen: 11.495 ng
RT: 9.60 min Scan# 1278
Delta R.T. -0.01 min
Lab File: BF114226.D
Acq: 13 May 2019 14:05

Instrument :
BNA_F
ClientSampleId :
P026-SS012-0002-01

Tot Ion	Ratio	Resp	Lower	Upper
163	100	443260		
194	4.1		3.4	5.0
164	10.3		8.2	12.2

Manual Integrations
APPROVED

Sohil
5/14/2019 8:03:08 PM

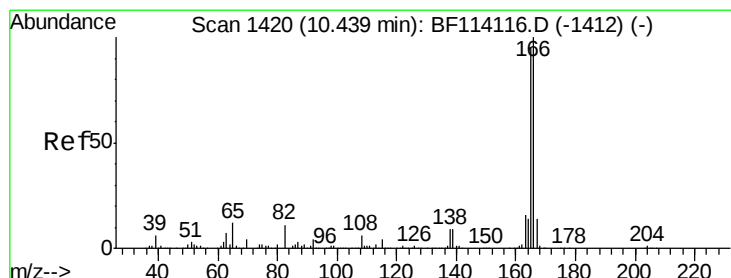
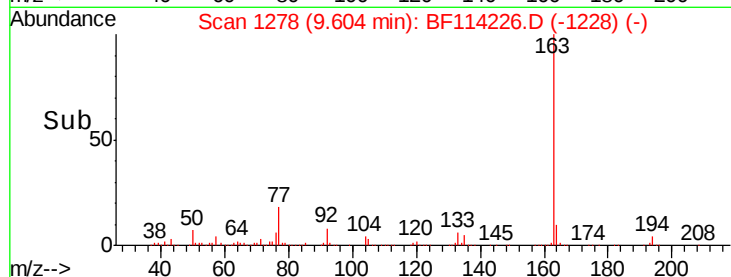
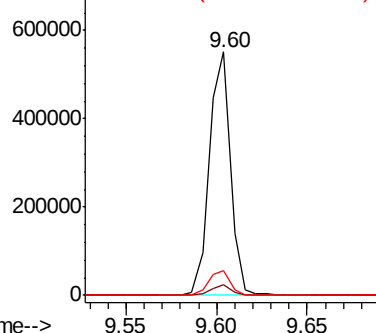


Abundance

Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#58
Fluorene
Concen: 5.043 ng
RT: 10.44 min Scan# 1420
Delta R.T. -0.00 min
Lab File: BF114226.D
Acq: 13 May 2019 14:05

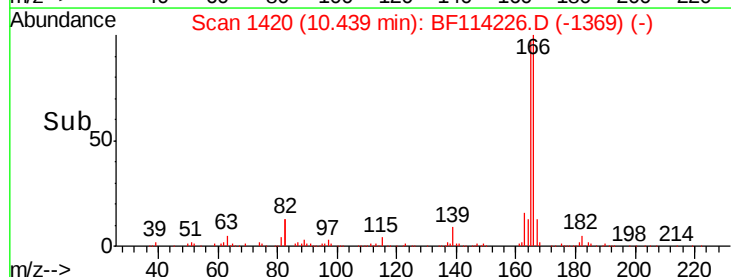
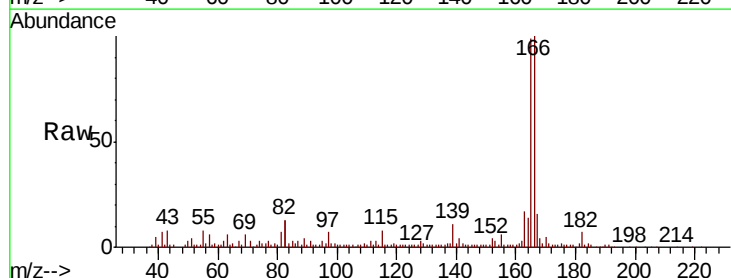
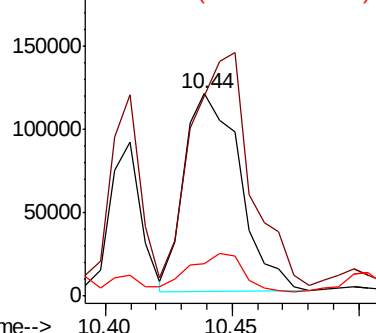
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	182070		
165	98.8		76.1	114.1
167	16.2		11.1	16.7

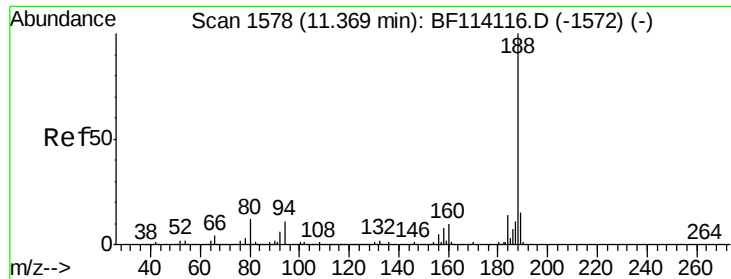
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





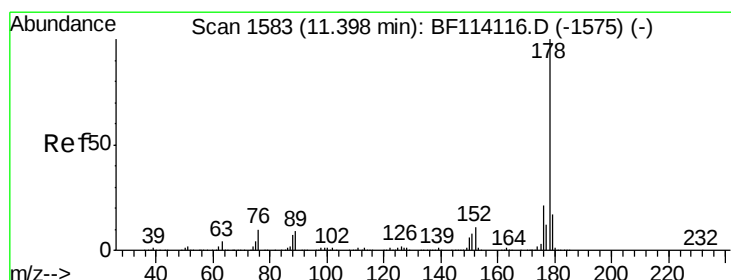
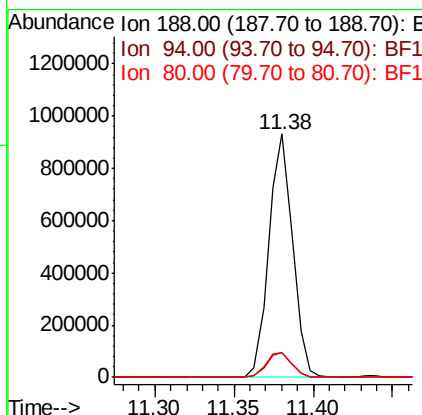
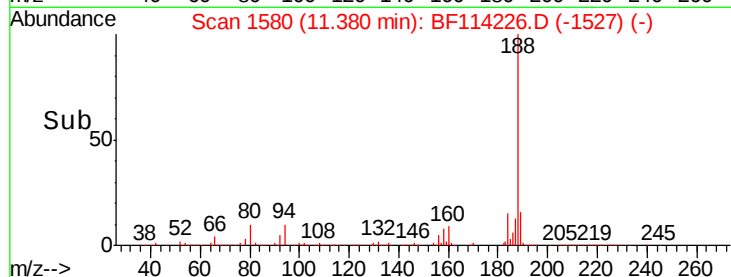
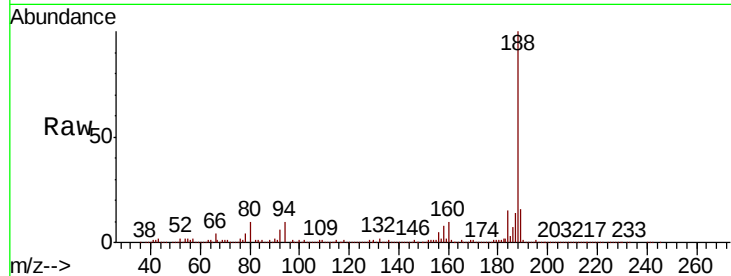
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.38 min Scan# 1580
Delta R.T. 0.01 min
Lab File: BF114226.D
Acq: 13 May 2019 14:05

Instrument :
BNA_F
ClientSampleId :
P026-SS012-0002-01

Tot Ion	Ratio	Lower	Upper
188	100		
94	10.3	8.4	12.6
80	10.3	9.2	13.8

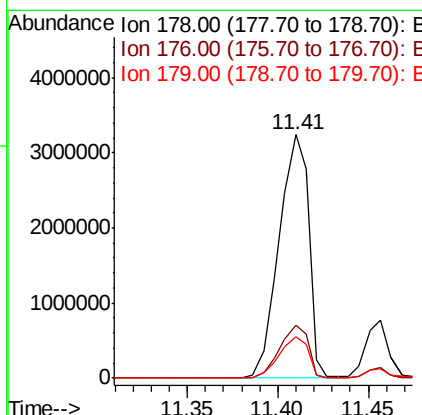
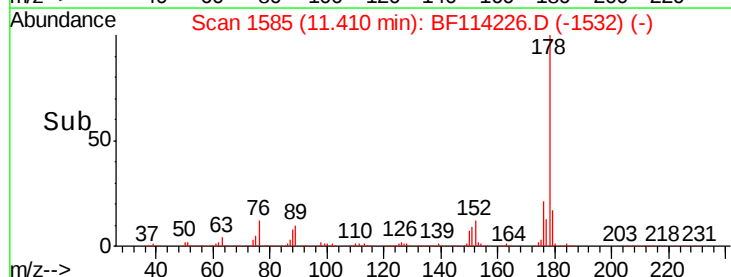
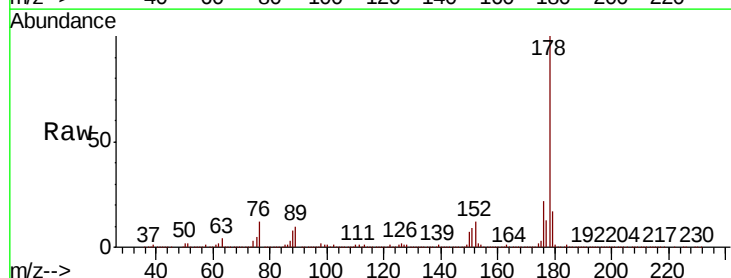
Manual Integrations
APPROVED

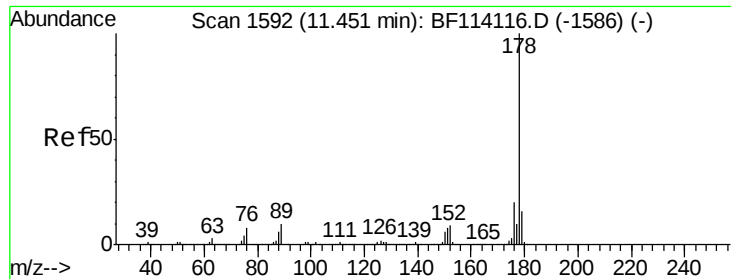
Sohil
5/14/2019 8:03:08 PM



#71
Phenanthrene
Concen: 77.928 ng
RT: 11.41 min Scan# 1585
Delta R.T. 0.01 min
Lab File: BF114226.D
Acq: 13 May 2019 14:05

Tgt Ion	Ratio	Lower	Upper
178	100		
176	21.5	16.4	24.6
179	17.1	13.2	19.8





#72

Anthracene

Concen: 13.528 ng

RT: 11.46 min Scan# 1593

Delta R.T. 0.01 min

Lab File: BF114226.D

Acq: 13 May 2019 14:05

Instrument :

BNA_F

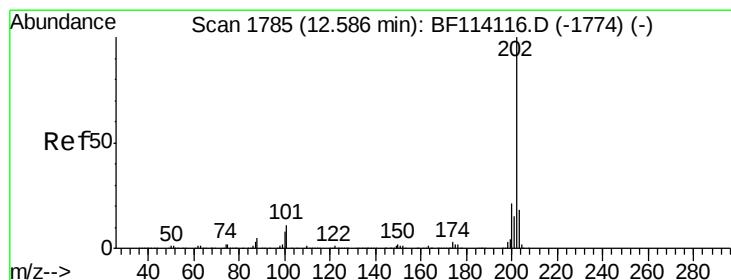
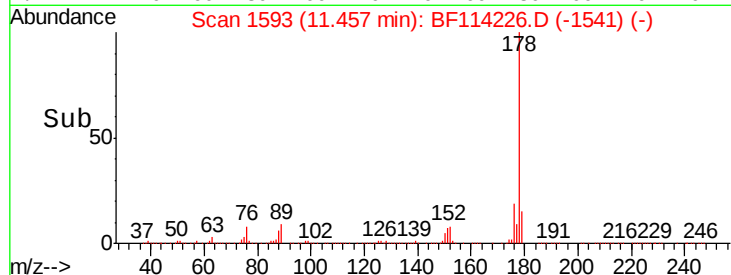
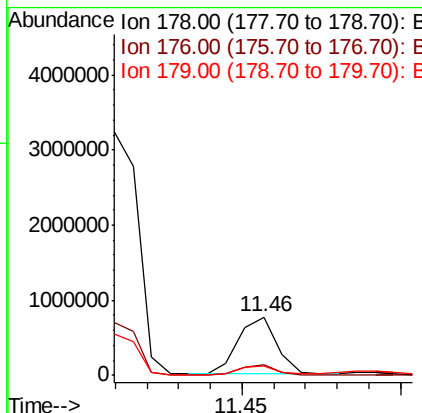
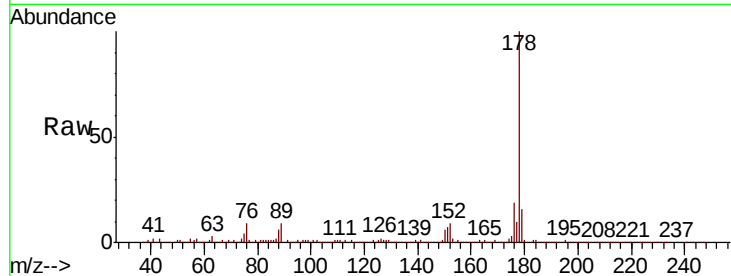
ClientSampleId :

P026-SS012-0002-01

Tot Ion:	178	Resp:	643683
Ion Ratio	Lower	Upper	
178	100		
176	18.9	15.8	23.8
179	15.5	13.0	19.4

Manual Integrations
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#75

Fluoranthene

Concen: 84.384 ng

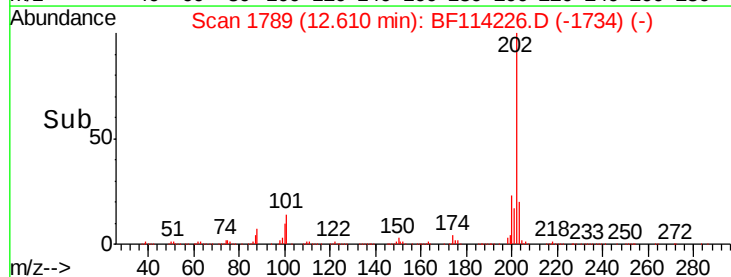
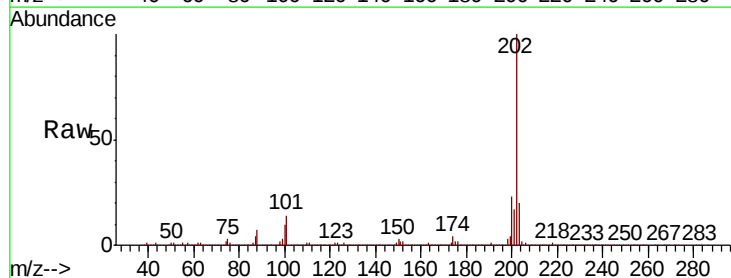
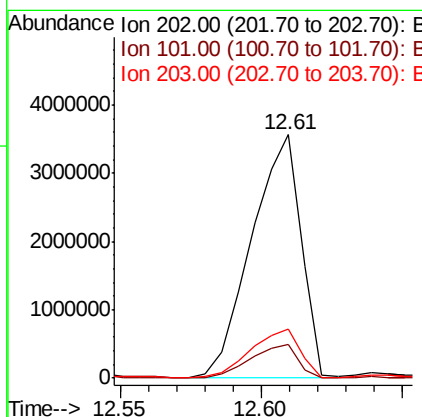
RT: 12.61 min Scan# 1789

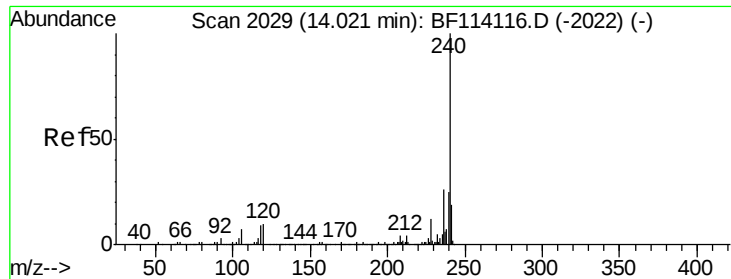
Delta R.T. 0.02 min

Lab File: BF114226.D

Acq: 13 May 2019 14:05

Tgt Ion:	202	Resp:	4304714
Ion Ratio	Lower	Upper	
202	100		
101	14.1	0.0	31.0
203	20.2	0.0	38.4





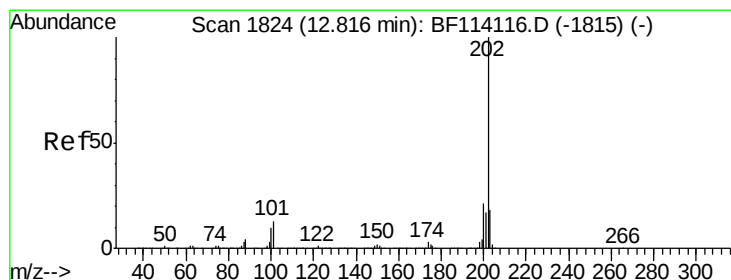
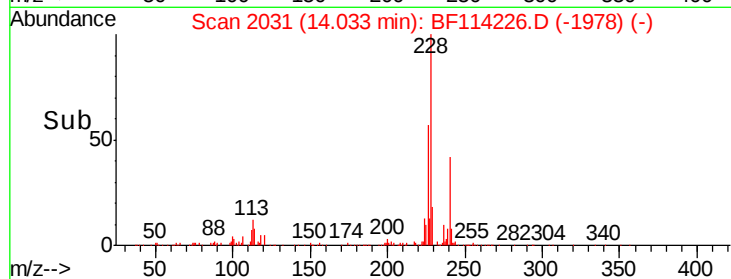
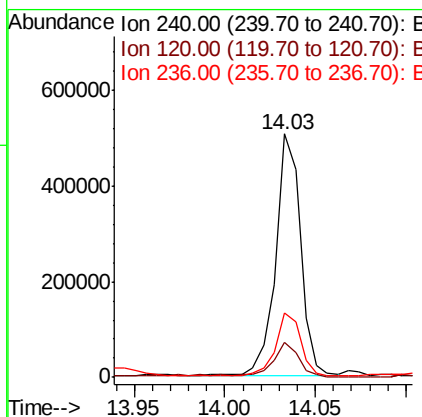
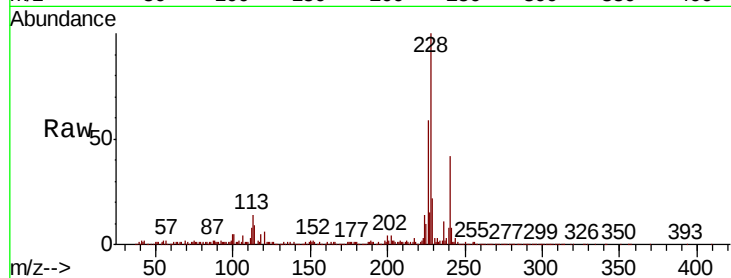
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.03 min Scan# 2031
Delta R.T. 0.01 min
Lab File: BF114226.D
Acq: 13 May 2019 14:05

Instrument :
BNA_F
ClientSampleId :
P026-SS012-0002-01

Tot Ion	Ratio	Resp	Lower	Upper
240	100			
120	14.2	8.3	12.5	
236	26.6	20.8	31.2	

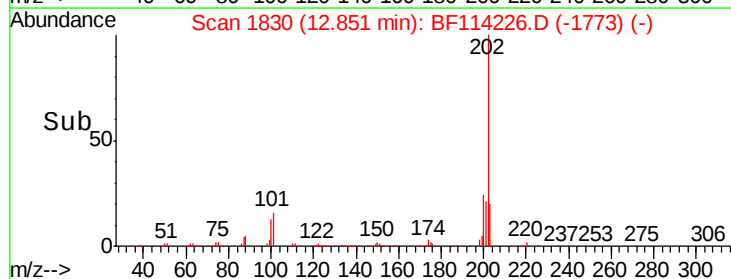
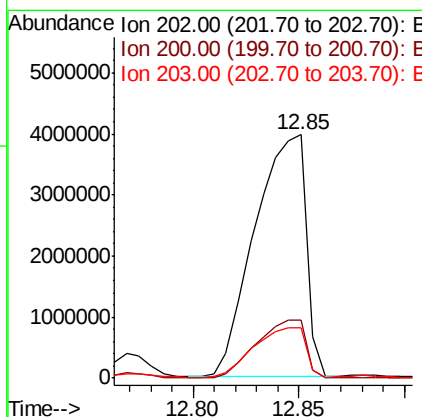
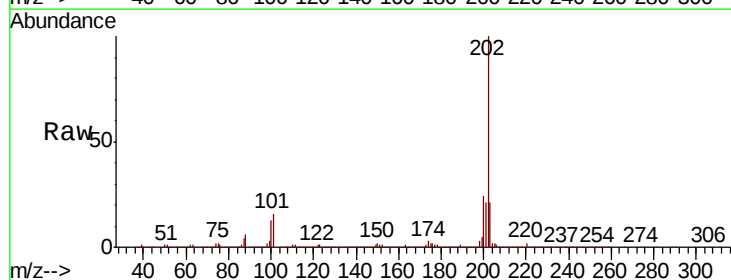
Manual Integrations
APPROVED

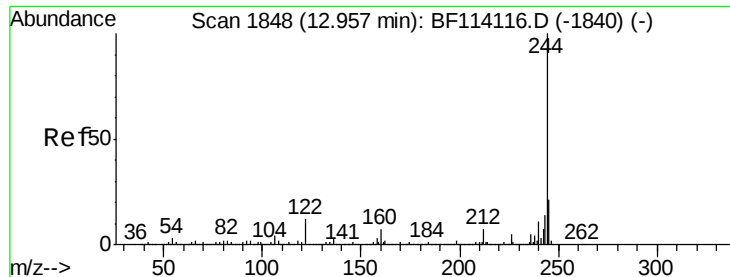
Sohil
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#78
Pyrene
Concen: 173.016 ng
RT: 12.85 min Scan# 1830
Delta R.T. 0.04 min
Lab File: BF114226.D
Acq: 13 May 2019 14:05

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
200	23.9	16.9	25.3	
203	20.7	14.5	21.7	





#79

Terphenyl-d14

Concen: 60.264 ng

RT: 12.96 min Scan# 1849

Delta R.T. 0.01 min

Lab File: BF114226.D

Acq: 13 May 2019 14:05

Instrument :

BNA_F

ClientSampleId :

P026-SS012-0002-01

Tot Ion:244 Resp: 1407901

Ion Ratio Lower Upper

244 100

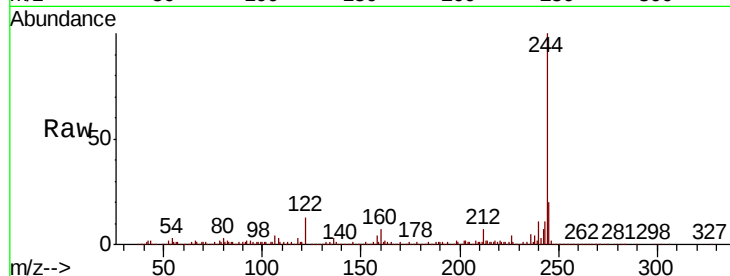
212 6.8 5.8 8.6

122 12.9 9.4 14.2

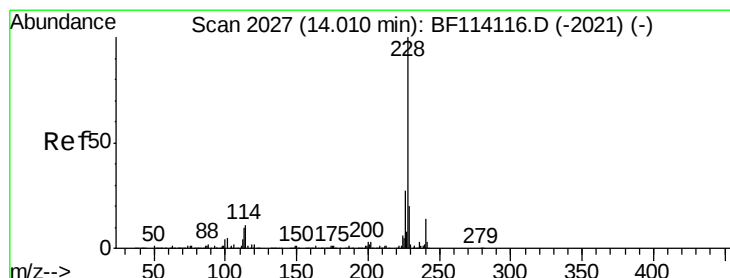
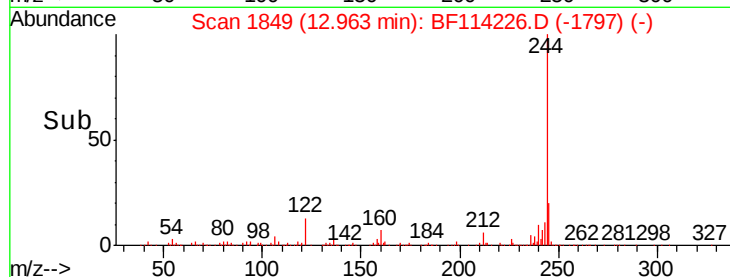
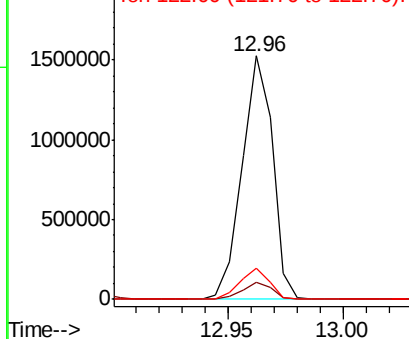
Manual Integrations
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Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 94.418 ng

RT: 14.03 min Scan# 2030

Delta R.T. 0.02 min

Lab File: BF114226.D

Acq: 13 May 2019 14:05

Tgt Ion:228 Resp: 2941043

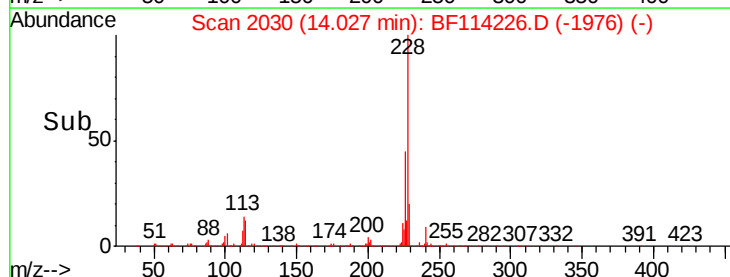
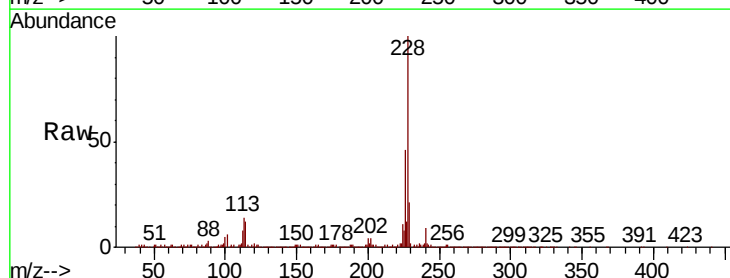
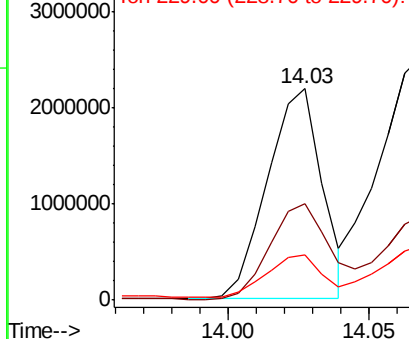
Ion Ratio Lower Upper

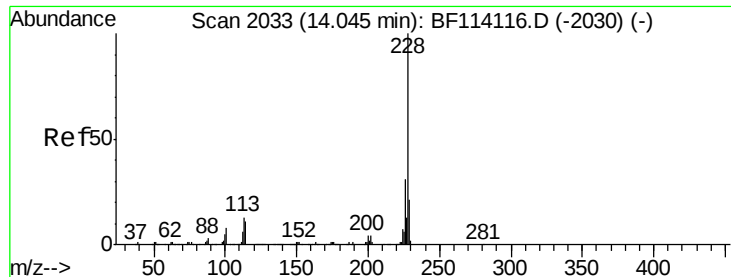
228 100

226 45.7 22.2 33.2#

229 21.3 16.4 24.6

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





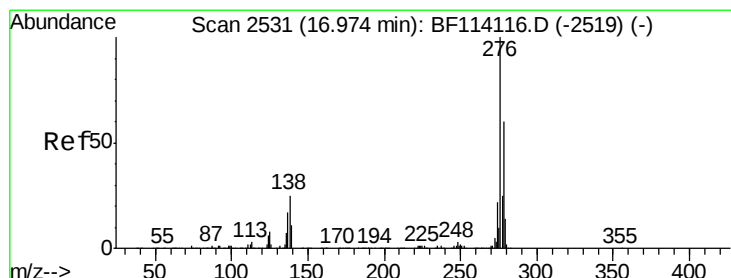
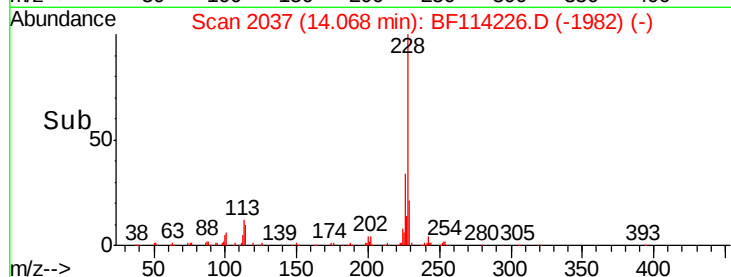
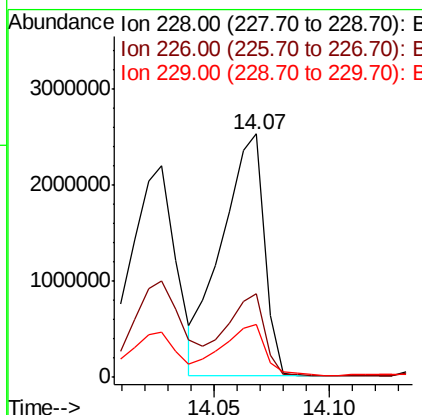
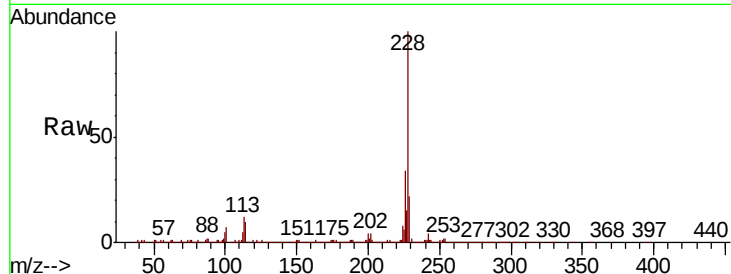
#83
Chrysene
Concen: 105.956 ng
RT: 14.07 min Scan# 2037
Delta R.T. 0.02 min
Lab File: BF114226.D
Acq: 13 May 2019 14:05

Instrument :
BNA_F
ClientSampleId :
P026-SS012-0002-01

Tot Ion	Ratio	Lower	Upper
228	100		
226	34.5	25.0	37.6
229	21.6	17.0	25.6

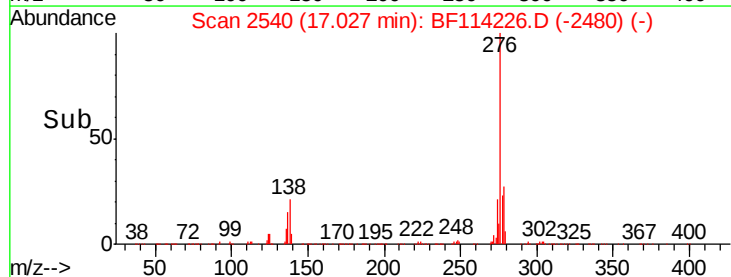
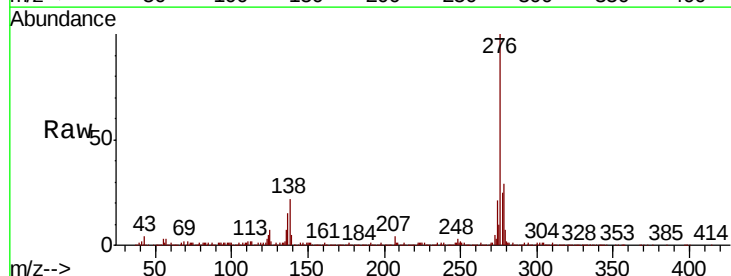
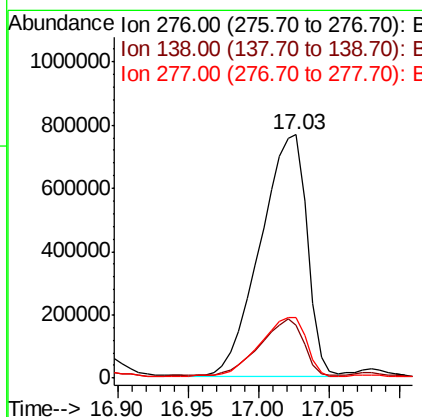
Manual Integrations
APPROVED

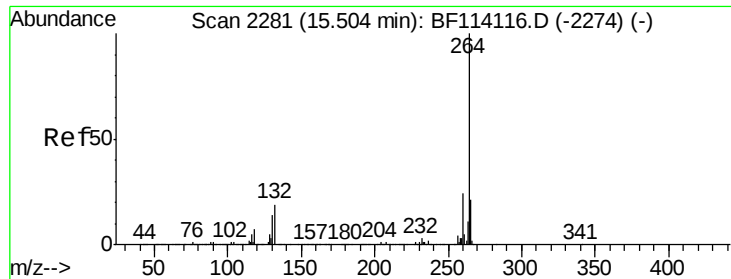
Sohil
5/14/2019 8:03:08 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 65.197 ng
RT: 17.03 min Scan# 2540
Delta R.T. 0.05 min
Lab File: BF114226.D
Acq: 13 May 2019 14:05

Tgt Ion	Ratio	Lower	Upper
276	100		
138	22.0	20.2	30.2
277	24.6	20.0	30.0





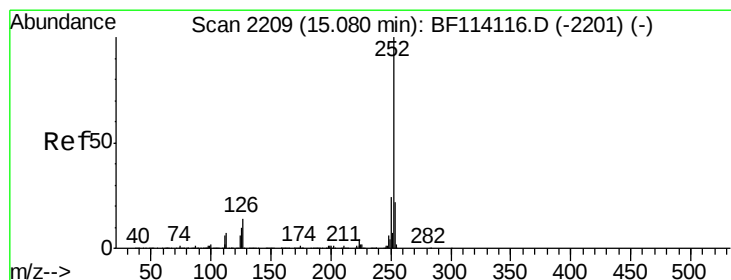
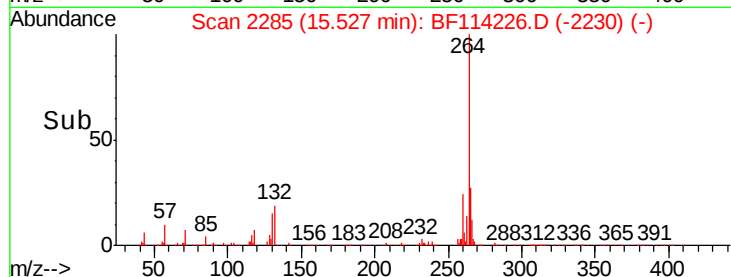
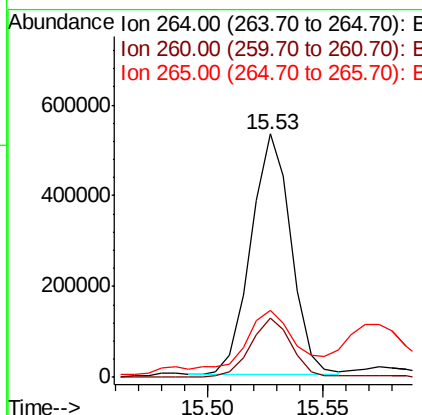
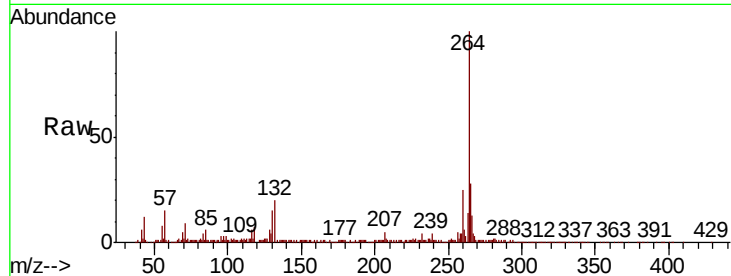
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.53 min Scan# 2285
Delta R.T. 0.02 min
Lab File: BF114226.D
Acq: 13 May 2019 14:05

Instrument :
BNA_F
ClientSampleId :
P026-SS012-0002-01

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.4	29.0
265	27.7	16.9	25.3

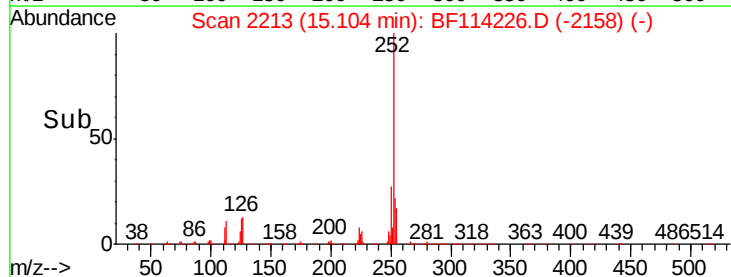
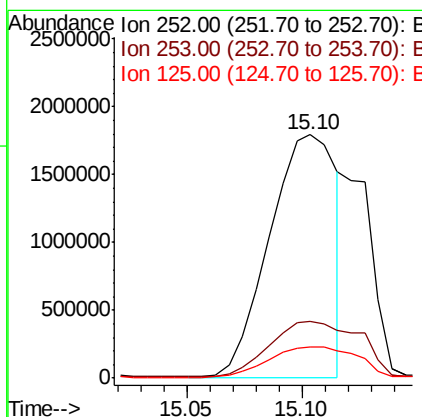
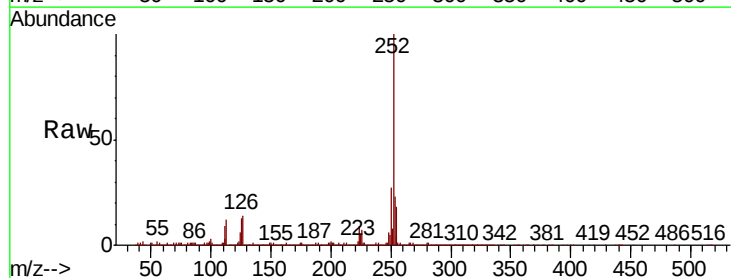
Manual Integrations
APPROVED

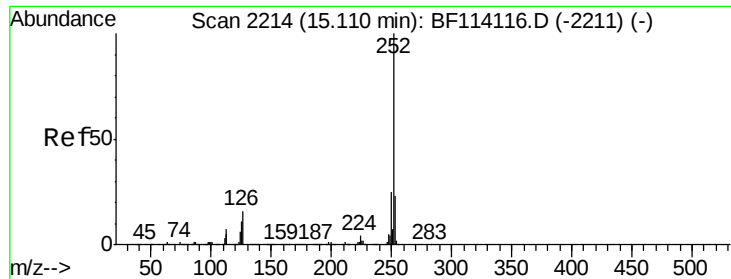
Sohil
5/14/2019 8:03:08 PM



#88
Benzo(b)fluoranthene
Concen: 88.513 ng m
RT: 15.10 min Scan# 2213
Delta R.T. 0.02 min
Lab File: BF114226.D
Acq: 13 May 2019 14:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.8	26.8
125	12.8	8.3	12.5





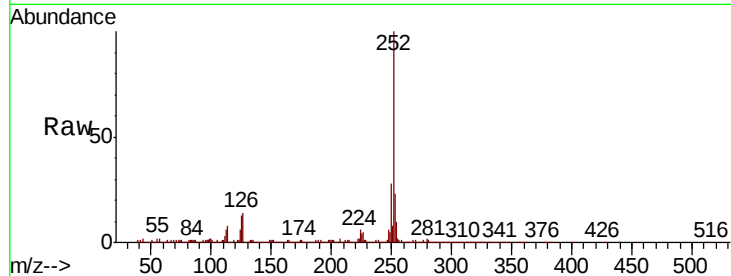
#89
Benzo(k)fluoranthene
Concen: 33.809 ng m
RT: 15.12 min Scan# 2215
Delta R.T. 0.01 min
Lab File: BF114226.D
Acq: 13 May 2019 14:05

Instrument :
BNA_F
ClientSampleId :
P026-SS012-0002-01

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.2	27.2
125	13.0	8.6	13.0

Manual Integrations
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Sohil
5/14/2019 8:03:08 PM

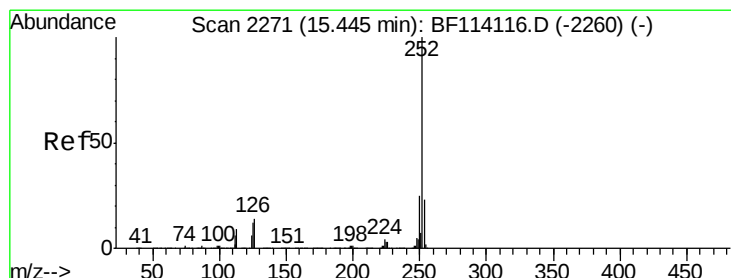
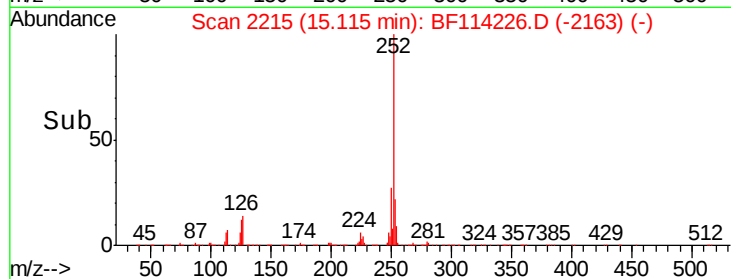
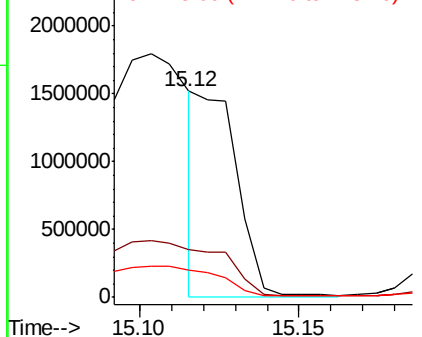


Abundance

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: 83.559 ng
RT: 15.47 min Scan# 2276
Delta R.T. 0.03 min
Lab File: BF114226.D
Acq: 13 May 2019 14:05

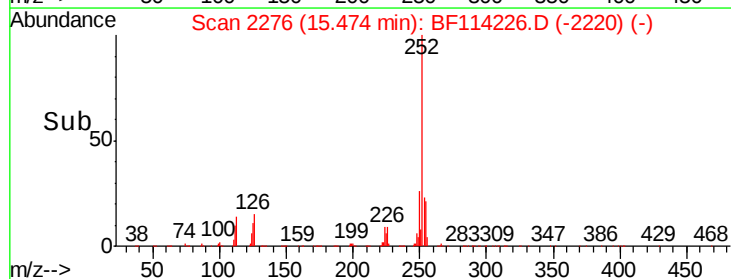
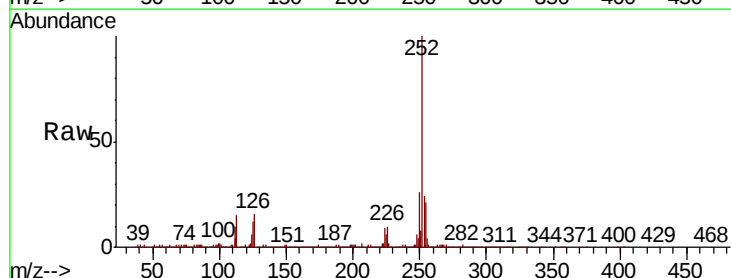
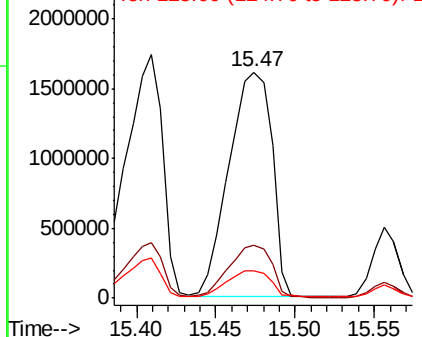
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.1	27.1
125	12.0	9.5	14.3

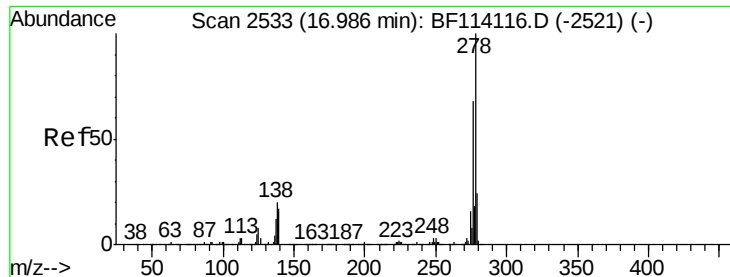
Abundance

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





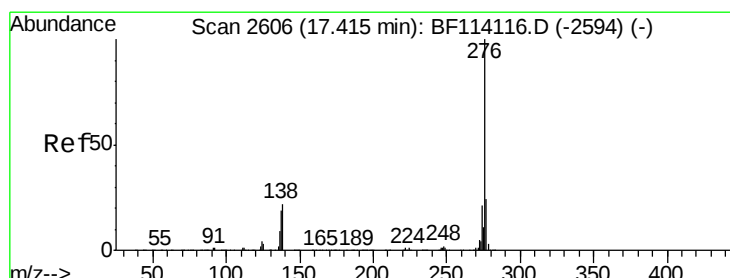
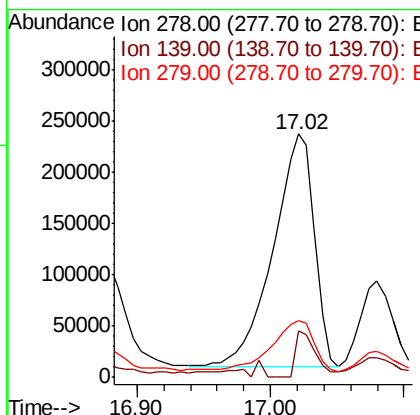
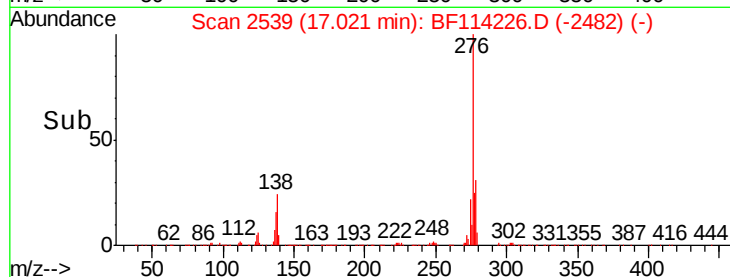
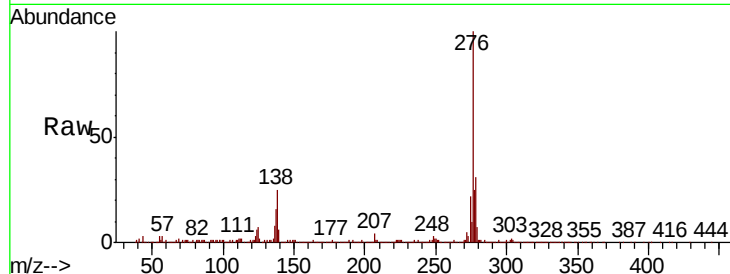
#91
Dibenzo(a,h)anthracene
Concen: 16.088 ng
RT: 17.02 min Scan# 2539
Delta R.T. 0.04 min
Lab File: BF114226.D
Acq: 13 May 2019 14:05

Instrument :
BNA_F
ClientSampleId :
P026-SS012-0002-01

Tot Ion	Ratio	Lower	Upper
278	100		
139	18.9	13.5	20.3
279	23.4	19.0	28.6

Manual Integrations
APPROVED

Sohil
5/14/2019 8:03:08 PM



#92
Benzo(g,h,i)perylene
Concen: 64.722 ng
RT: 17.48 min Scan# 2617
Delta R.T. 0.06 min
Lab File: BF114226.D
Acq: 13 May 2019 14:05

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.3	19.0	28.4
138	22.6	17.8	26.6

