

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF021218\
 Data File : BF102940.D
 Acq On : 13 Feb 2018 1:00
 Operator : SJ/JU
 Sample : J1522-03 50X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-07

Manual Integrations
 APPROVED

Quant Time: Feb 13 07:33:04 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 05 12:44:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	162706	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	659548	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	274058	20.00	ng	0.00
63) Phenanthrene-d10	11.41	188	392479	20.00	ng	0.00
75) Chrysene-d12	14.05	240	300664	20.00	ng	0.00
86) Perylene-d12	15.54	264	268229	20.00	ng	0.01

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System Monitoring Compounds

5) 2-Fluorophenol	5.50	112	3961	0.37	ng	0.00
7) Phenol-d6	6.50	99	5267	0.41	ng	0.00
23) Nitrobenzene-d5	7.44	82	3468	0.36	ng	-0.01
41) 2,4,6-Tribromophenol	10.72	330	452	0.20	ng	0.00
44) 2-Fluorobiphenyl	9.24	172	7468	0.45	ng	0.00
78) Terphenyl-d14	12.99	244	5537	0.44	ng	0.00

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Target Compounds

						Qvalue
31) Naphthalene	8.19	128	1643208	50.993	ng	100
37) 2-Methylnaphthalene	8.88	142	205452	9.738	ng	99
45) 1,1'-Biphenyl	9.34	154	67781	2.936	ng	94
48) Acenaphthylene	9.78	152	381347	13.511	ng	99
54) Dibenzofuran	10.13	168	258195	10.854	ng	98
57) Fluorene	10.47	166	296051	17.105	ng	97
70) Phenanthrene	11.44	178	1128160	51.612	ng	99
71) Anthracene	11.49	178	439108	19.751	ng	100
72) Carbazole	11.64	167	166631	7.650	ng	98
74) Fluoranthene	12.63	202	871773	39.640	ng	99
77) Pyrene	12.86	202	688408	29.199	ng	98
80) Benzo(a)anthracene	14.04	228	344920m	18.241	ng	
82) Chrysene	14.08	228	291559	15.296	ng	97
85) Indeno(1,2,3-cd)pyrene	17.03	276	91748	5.804	ng	95
87) Benzo(b)fluoranthene	15.10	252	305083m	17.543	ng	
88) Benzo(k)fluoranthene	15.13	252	126125m	7.590	ng	
89) Benzo(a)pyrene	15.47	252	229902	14.687	ng	97
90) Dibenzo(a,h)anthracene	17.04	278	26887m	2.116	ng	
91) Benzo(a,h,i)perylene	17.49	276	77403	6.224	ng	99

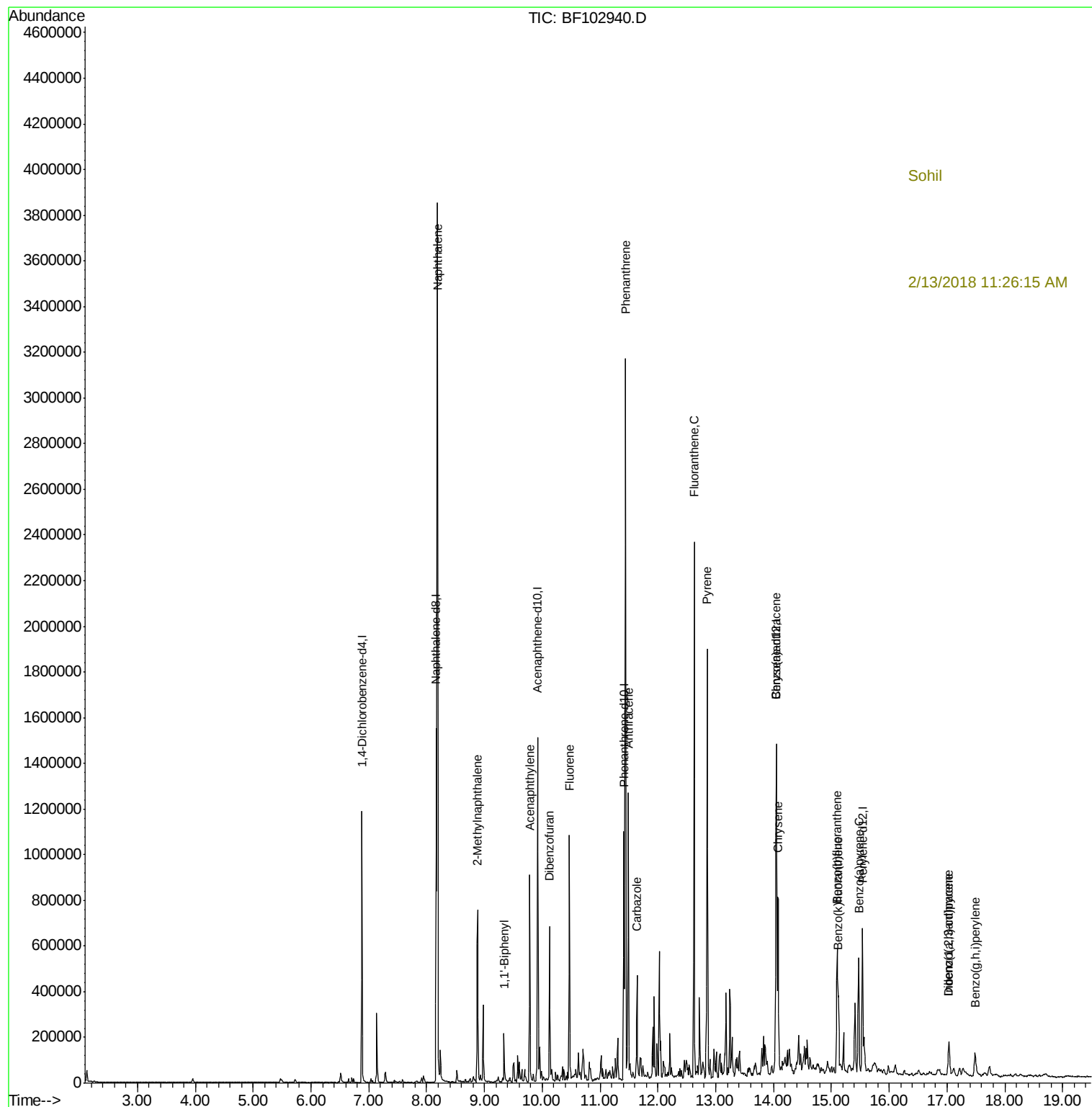
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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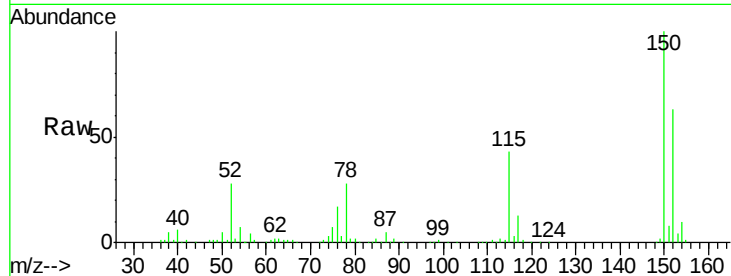
#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. -0.00 min
Lab File: BF102940.D
Acq: 13 Feb 2018 1:00

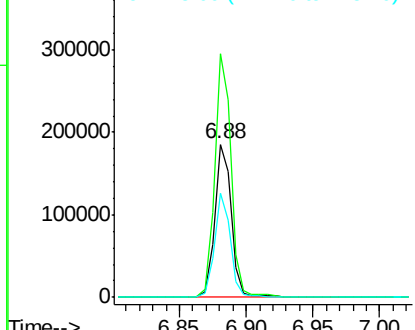
Instrument :
BNA_F
ClientSampled :
SP-07

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.0	124.6	186.8
115	67.8	50.1	75.1

Manual Integrations
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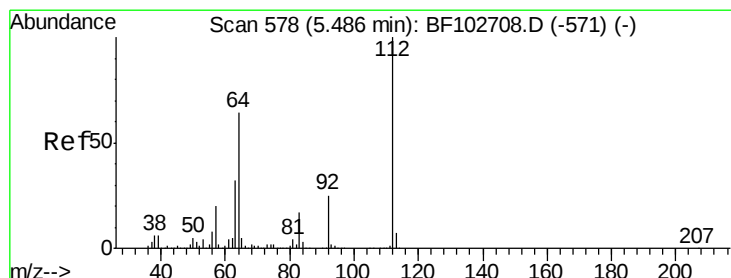
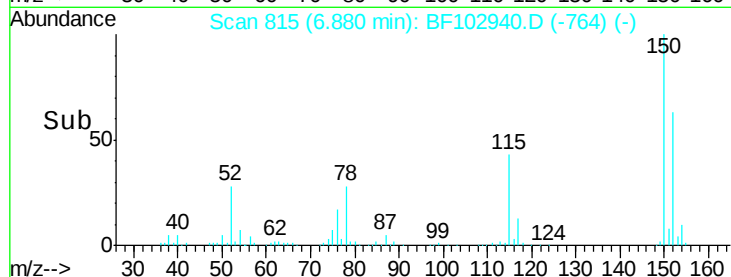


Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



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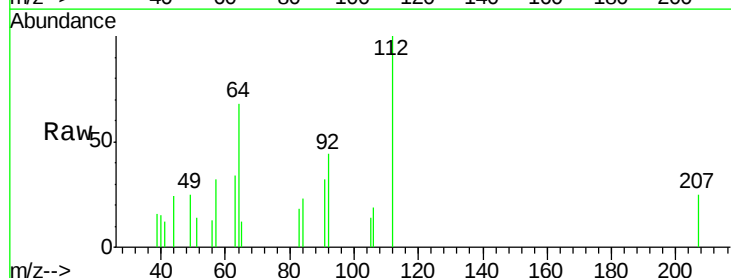
2/13/2018 11:26:15 AM



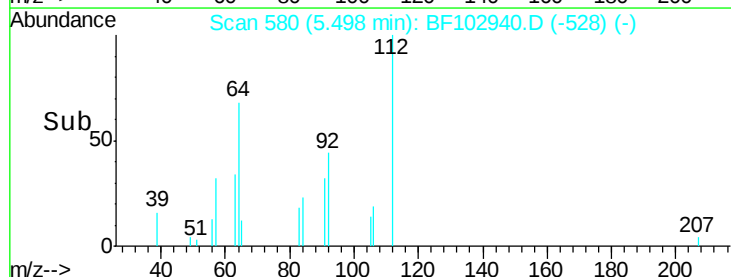
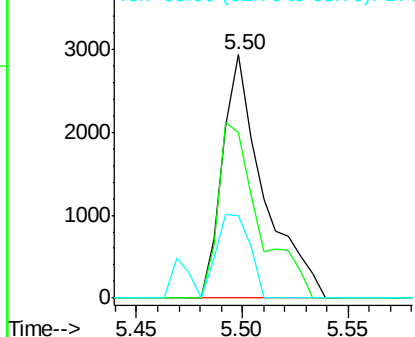
#5

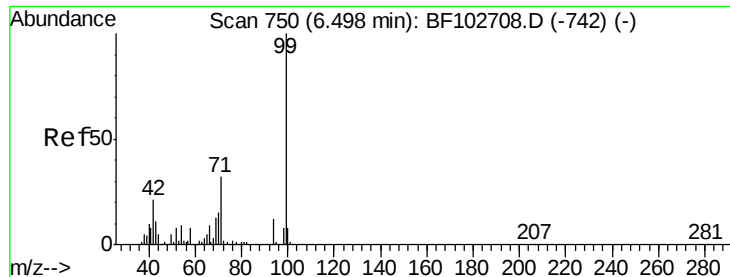
2-Fluorophenol
Concen: 0.370 ng
RT: 5.50 min Scan# 580
Delta R.T. 0.01 min
Lab File: BF102940.D
Acq: 13 Feb 2018 1:00

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.9	47.9	71.9
63	33.9	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: 0.408 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.00 min

Lab File: BF102940.D

Acq: 13 Feb 2018 1:00

Instrument :

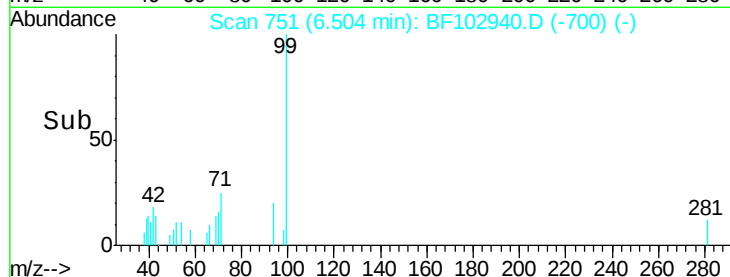
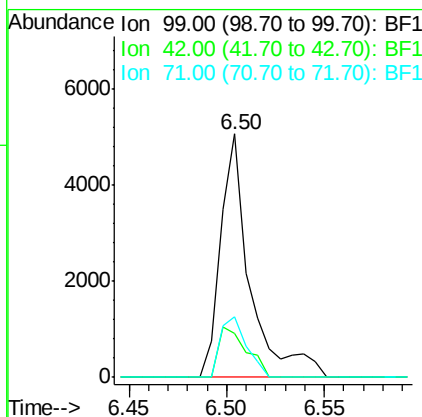
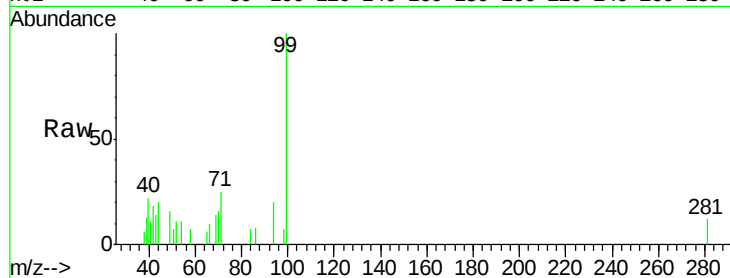
BNA_F

ClientSampleId :

SP-07

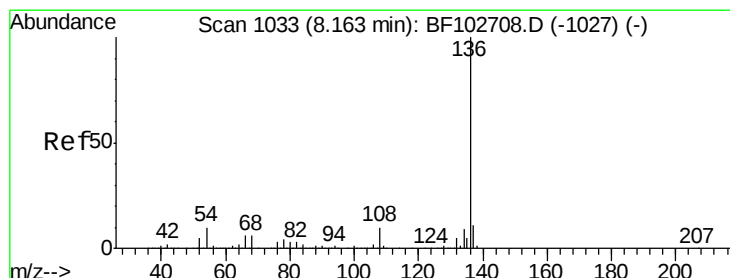
Tot Ion:	99	Resp:	5267
Ion	Ratio	Lower	Upper
99	100		
42	18.2	14.5	21.7
71	24.7	25.4	38.0#

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#21

Naphthalene-d8

Concen: 20.000 ng

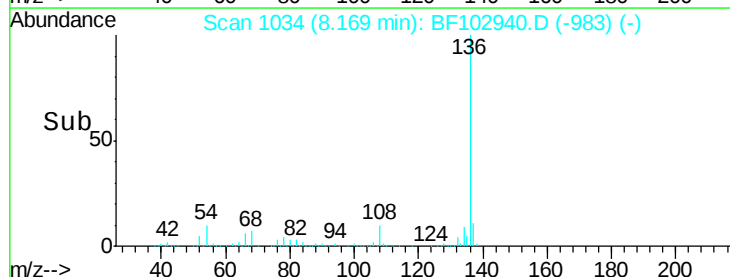
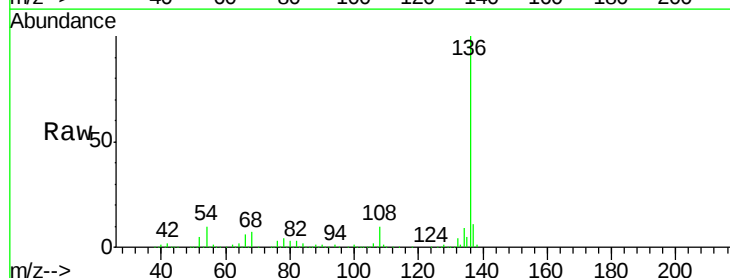
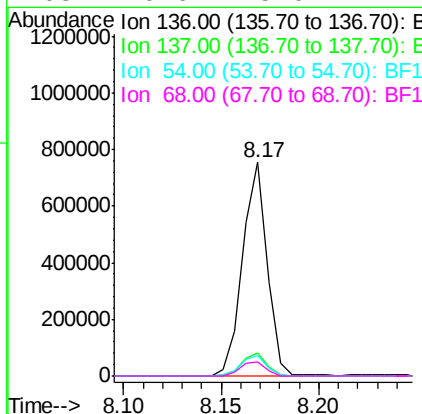
RT: 8.17 min Scan# 1034

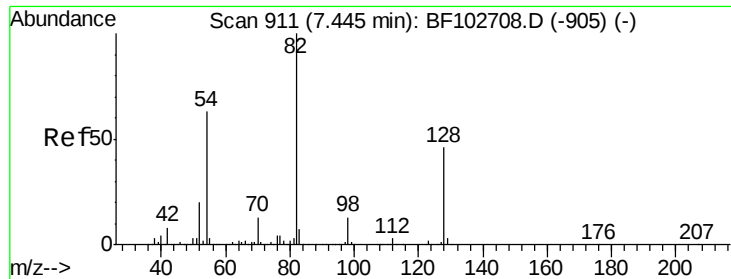
Delta R.T. -0.00 min

Lab File: BF102940.D

Acq: 13 Feb 2018 1:00

Tgt Ion:	136	Resp:	659548
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	9.6	6.6	9.8
68	6.6	5.0	7.4



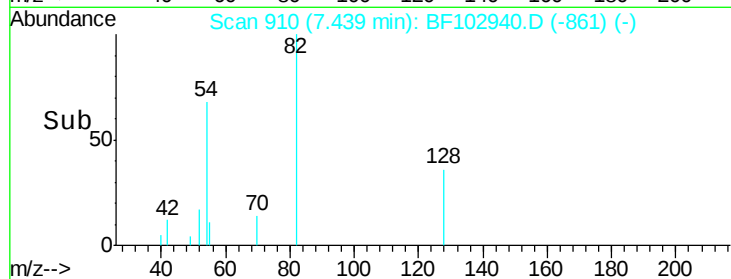
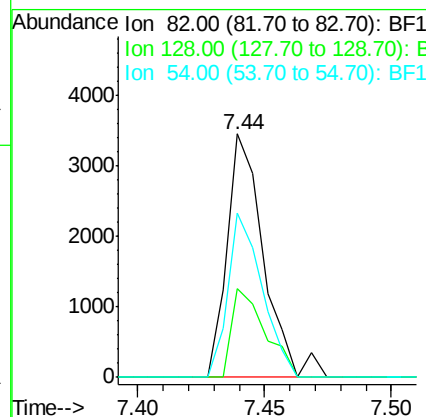
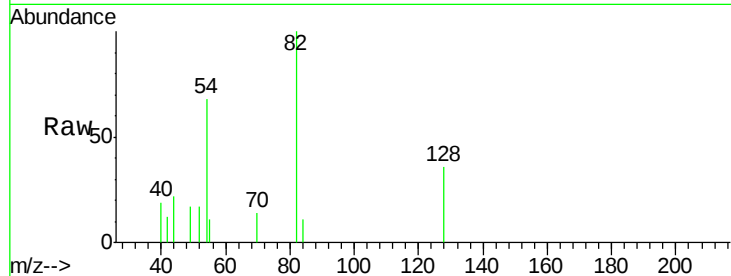


#23
Nitrobenzene-d5
Concen: 0.365 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.01 min
Lab File: BF102940.D
Acq: 13 Feb 2018 1:00

Instrument :
BNA_F
ClientSampled :
SP-07

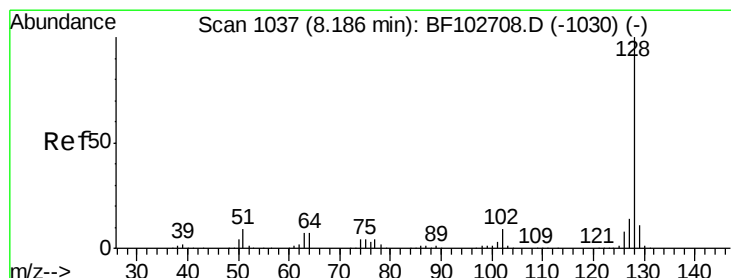
Tot Ion	Ratio	Lower	Upper
82	100		
128	36.3	36.1	54.1
54	67.6	41.4	62.2

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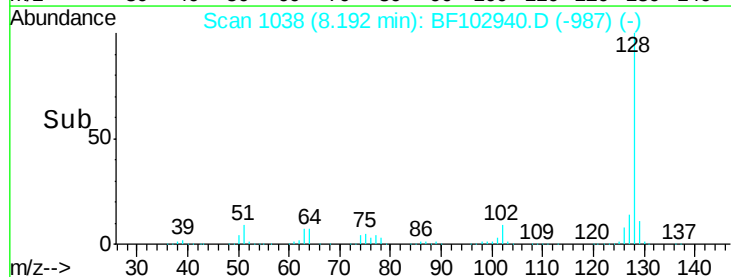
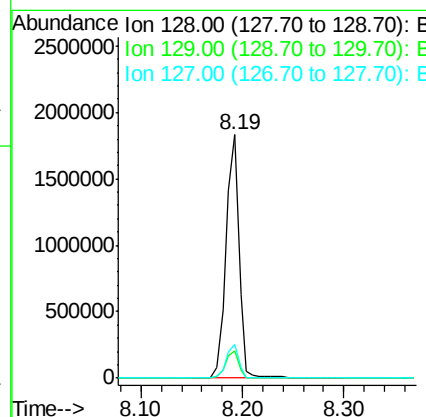
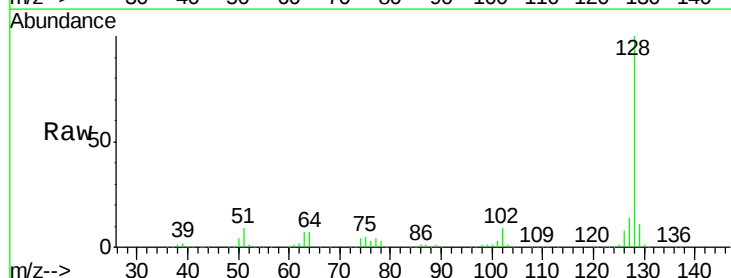
Sohil

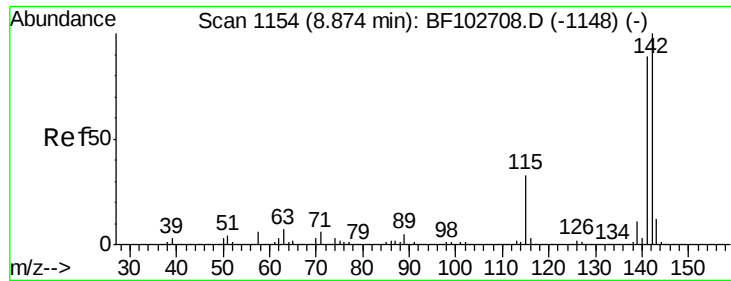
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#31
Naphthalene
Concen: 50.993 ng
RT: 8.19 min Scan# 1038
Delta R.T. -0.00 min
Lab File: BF102940.D
Acq: 13 Feb 2018 1:00

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.8	13.2
127	13.6	10.9	16.3



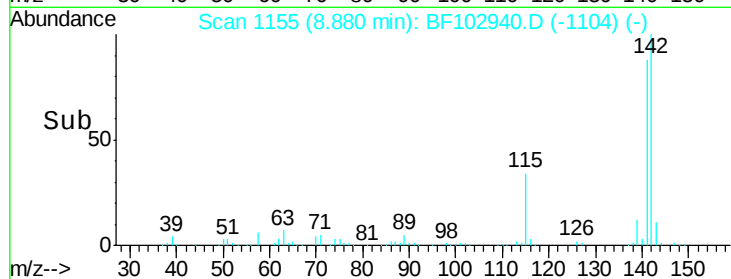
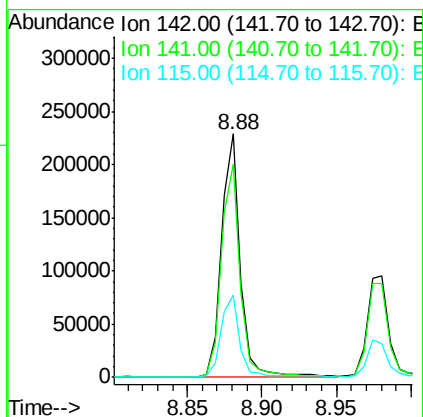
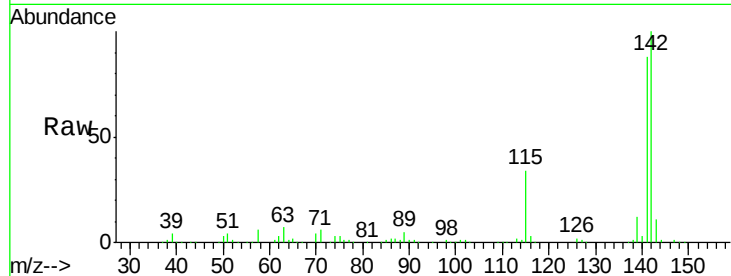


#37
2-Methylnaphthalene
Concen: 9.738 ng
RT: 8.88 min Scan# 1155
Delta R.T. -0.00 min
Lab File: BF102940.D
Acq: 13 Feb 2018 1:00

Instrument :
BNA_F
ClientSampleId :
SP-07

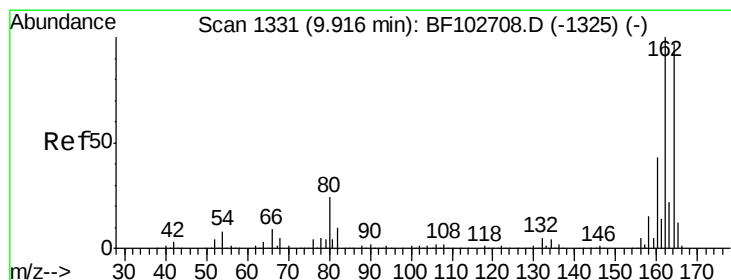
Tot Ion	Ratio	Lower	Upper
142	100		
141	87.6	70.8	106.2
115	33.8	26.1	39.1

Manual Integrations
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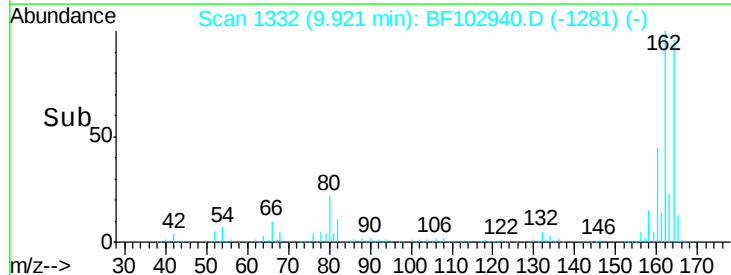
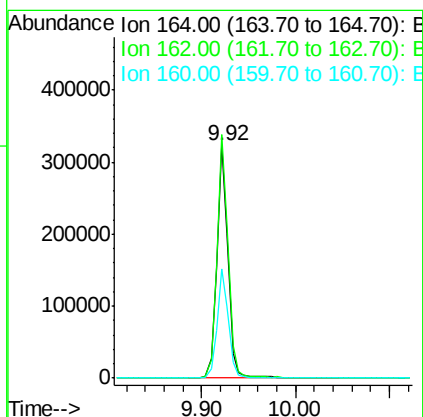
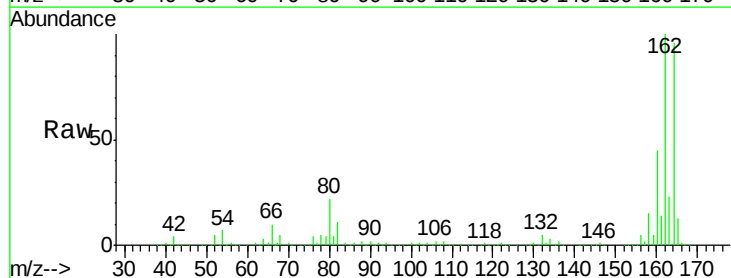
Sohil

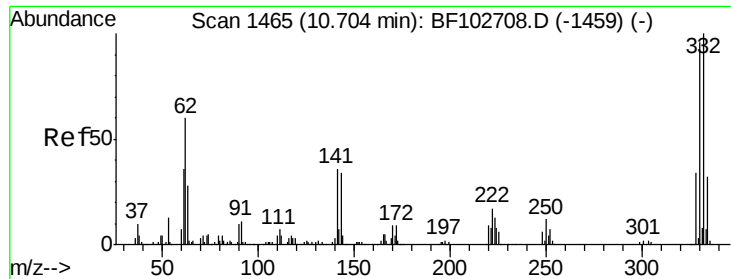
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.00 min
Lab File: BF102940.D
Acq: 13 Feb 2018 1:00

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.5	86.1	129.1
160	46.7	38.3	57.5



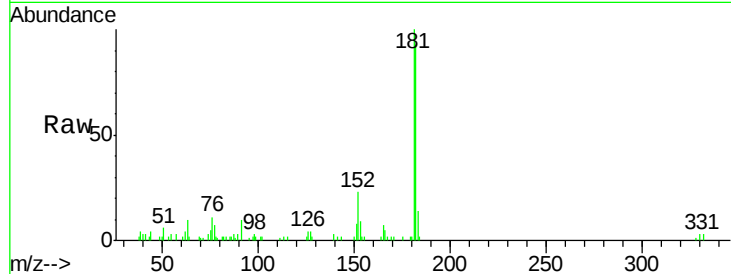


#41
 2,4,6-Tribromophenol
 Concen: 0.205 ng
 RT: 10.72 min Scan# 1467
 Delta R.T. 0.01 min
 Lab File: BF102940.D
 Acq: 13 Feb 2018 1:00

Instrument :
 BNA_F
 ClientSampleId :
 SP-07

Tot Ion	Ratio	Lower	Upper
330	100		
332	116.4	77.0	115.6#
141	98.5	29.9	44.9#

Manual Integrations
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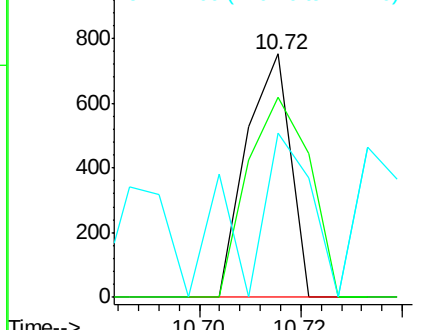


Abundance

Ion 329.80 (329.50 to 330.50): E

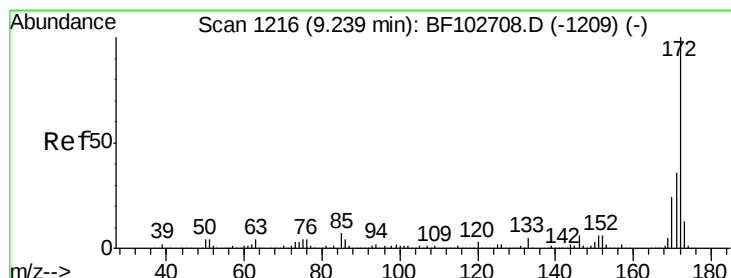
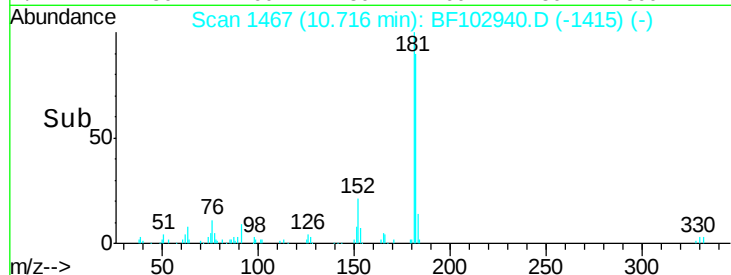
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



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#44
 2-Fluorobiphenyl
 Concen: 0.452 ng
 RT: 9.24 min Scan# 1216
 Delta R.T. -0.01 min
 Lab File: BF102940.D
 Acq: 13 Feb 2018 1:00

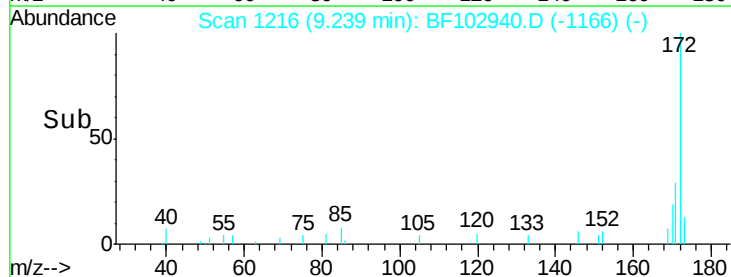
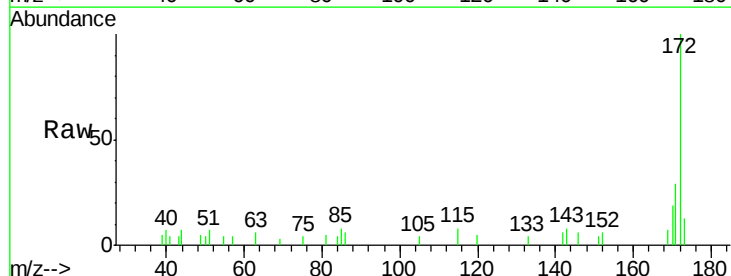
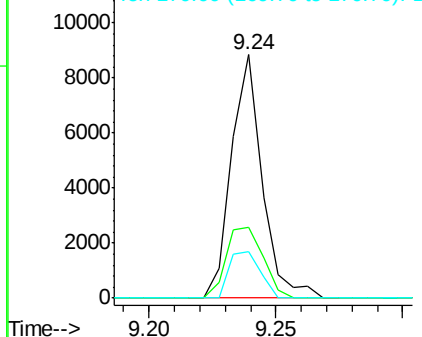
Tgt Ion	Ratio	Lower	Upper
172	100		
171	29.3	29.7	44.5#
170	19.1	19.6	29.4#

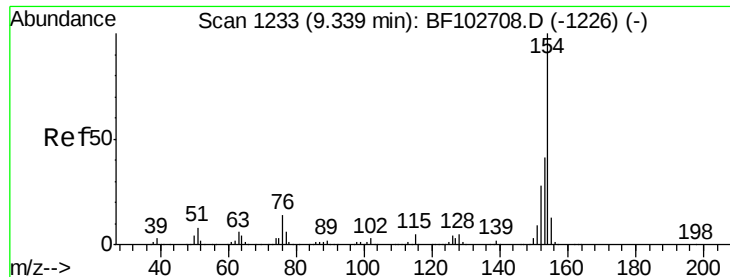
Abundance

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



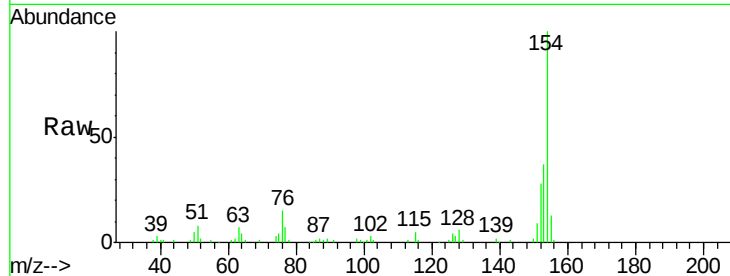


#45
1,1'-Biphenyl
Concen: 2.936 ng
RT: 9.34 min Scan# 1233
Delta R.T. -0.01 min
Lab File: BF102940.D
Acq: 13 Feb 2018 1:00

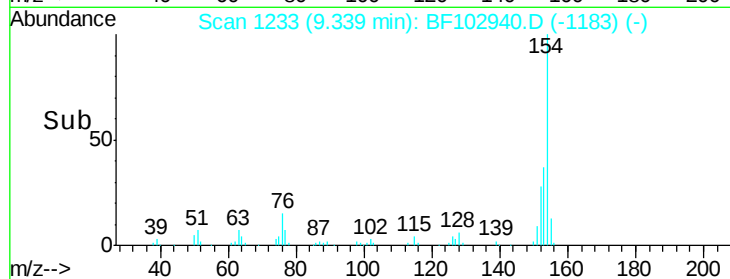
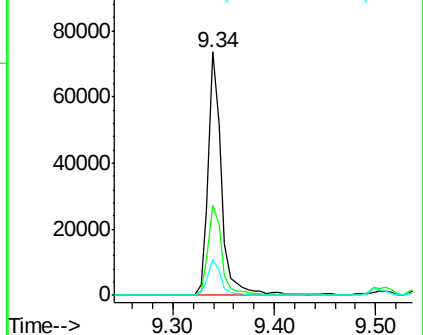
Instrument :
BNA_F
ClientSampled :
SP-07

Tot Ion	Ratio	Lower	Upper
154	100		
153	37.1	21.3	61.3
76	14.9	0.0	34.0

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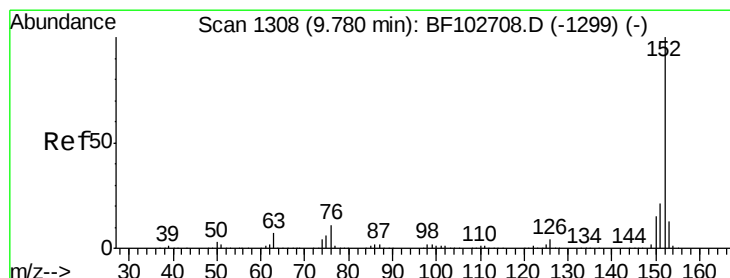


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF1



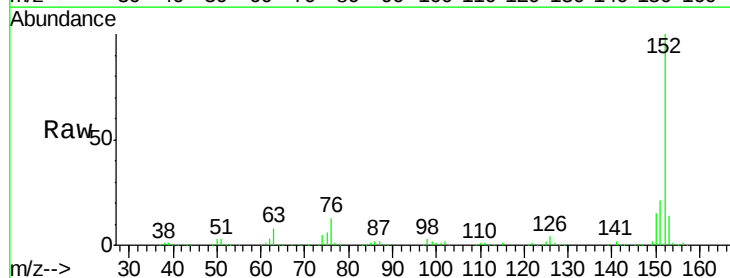
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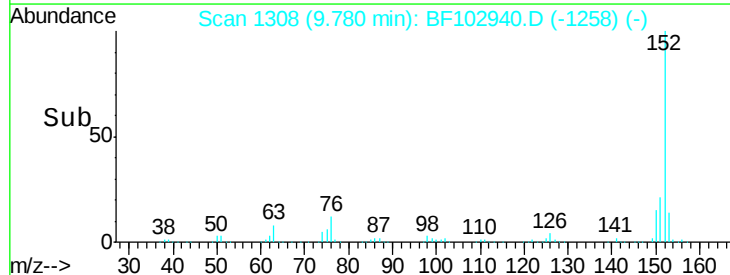
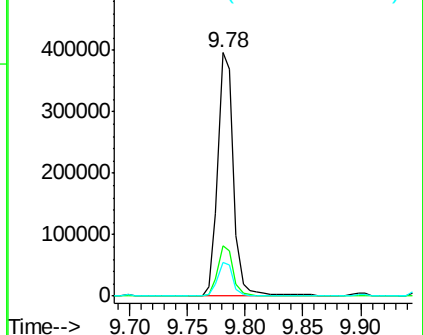


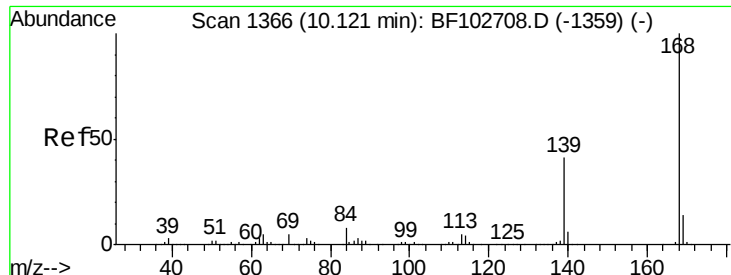
#48
Acenaphthylene
Concen: 13.511 ng
RT: 9.78 min Scan# 1308
Delta R.T. -0.01 min
Lab File: BF102940.D
Acq: 13 Feb 2018 1:00

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.3	24.5
153	14.1	10.7	16.1



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



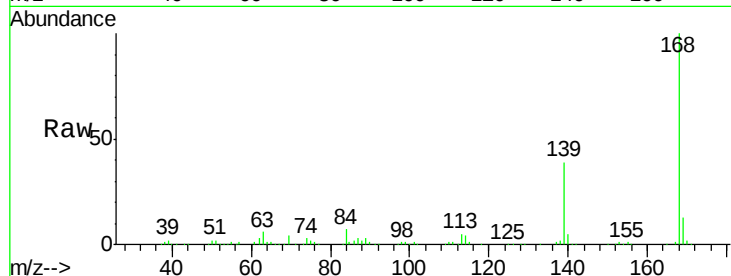


#54
Dibenzenofuran
Concen: 10.854 ng
RT: 10.13 min Scan# 1367
Delta R.T. -0.00 min
Lab File: BF102940.D
Acq: 13 Feb 2018 1:00

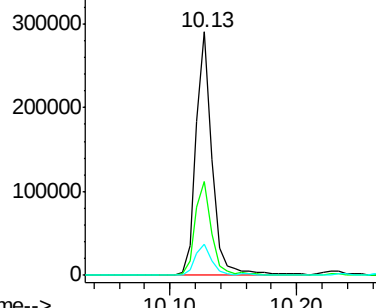
Instrument :
BNA_F
ClientSampled :
SP-07

Tot Ion	Ratio	Resp	Lower	Upper
168	100	258195		
139	38.7		30.1	45.1
169	12.9		10.9	16.3

Manual Integrations
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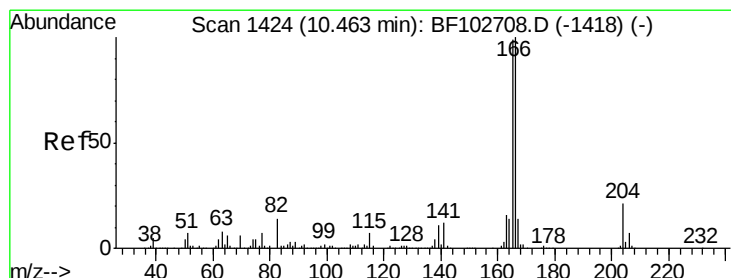
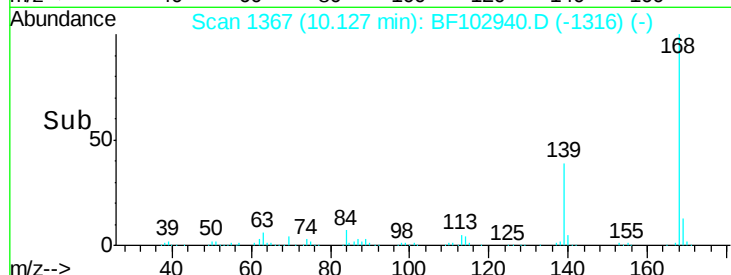


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E



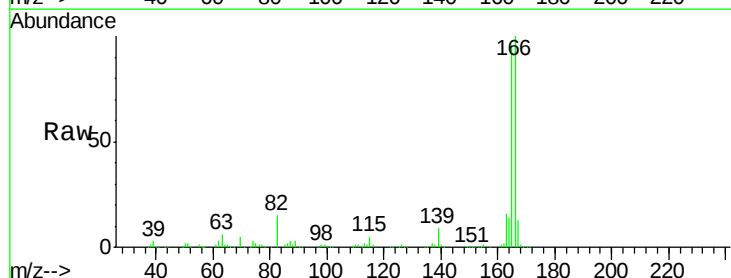
Sohil

2/13/2018 11:26:15 AM

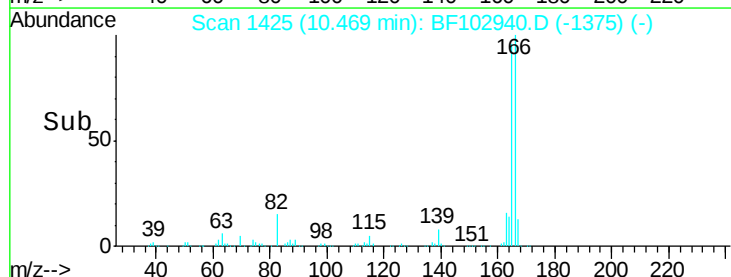
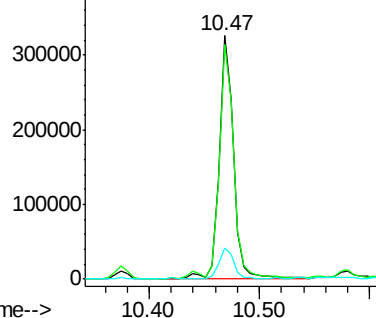


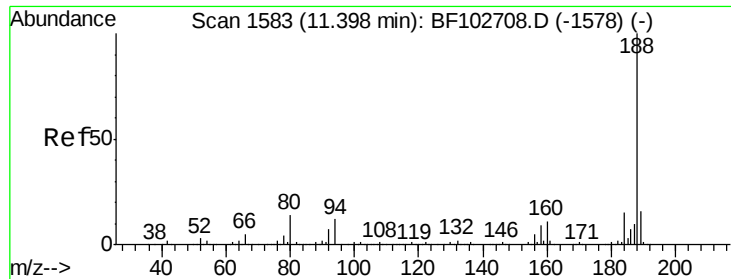
#57
Fluorene
Concen: 17.105 ng
RT: 10.47 min Scan# 1425
Delta R.T. -0.01 min
Lab File: BF102940.D
Acq: 13 Feb 2018 1:00

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	296051		
165	96.2		79.8	119.8
167	12.9		10.6	16.0



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



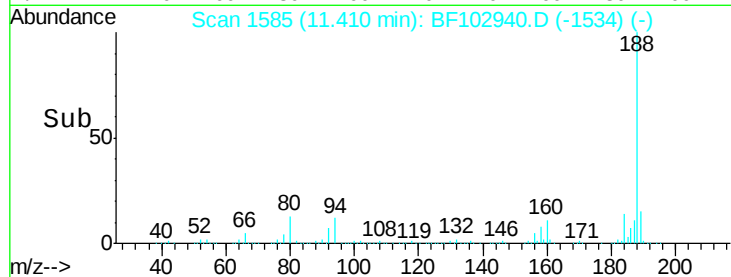
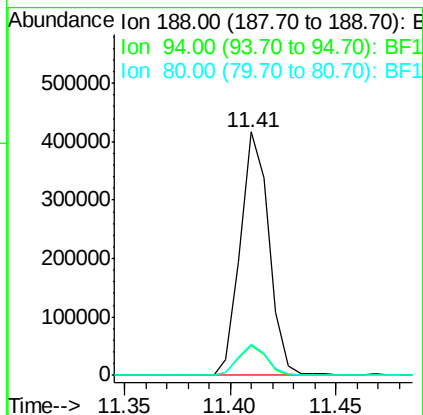
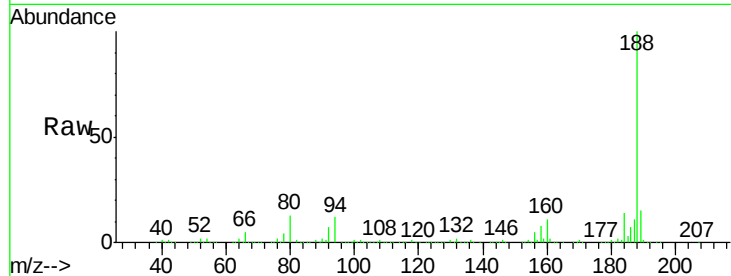


#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.41 min Scan# 1585
Delta R.T. -0.00 min
Lab File: BF102940.D
Acq: 13 Feb 2018 1:00

Instrument :
BNA_F
ClientSampled :
SP-07

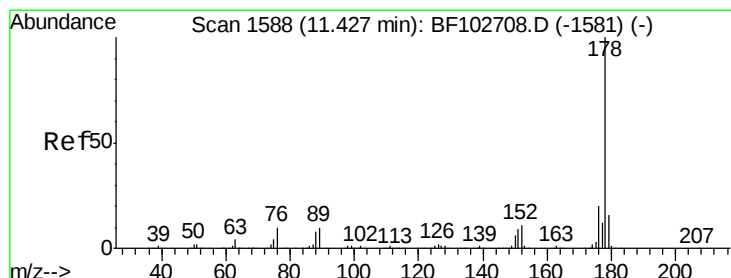
Tot Ion	Ratio	Resp	Lower	Upper
188	100	392479		
94	12.2		8.5	12.7
80	13.0		9.2	13.8

Manual Integrations
APPROVED



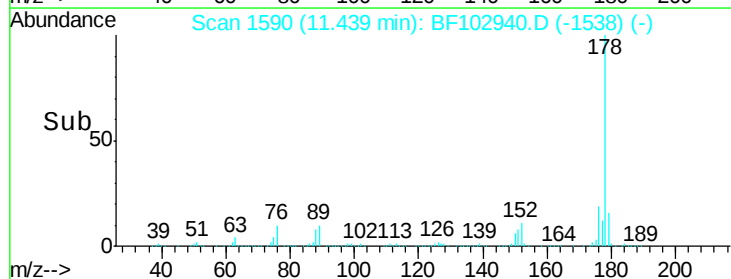
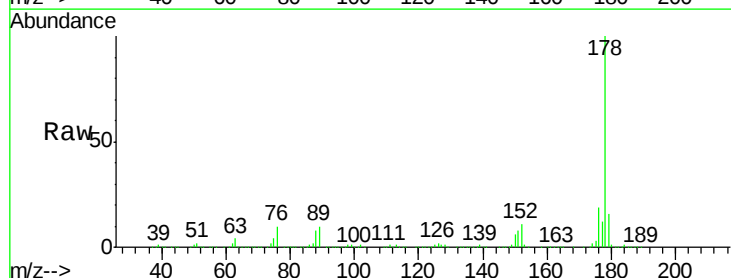
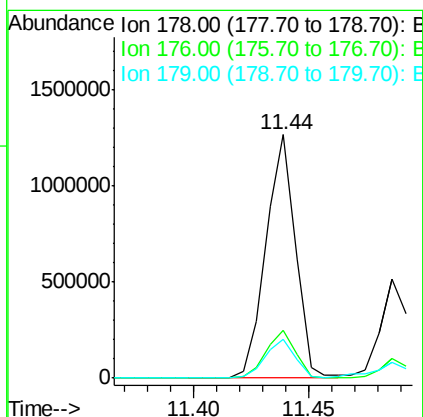
Sohil

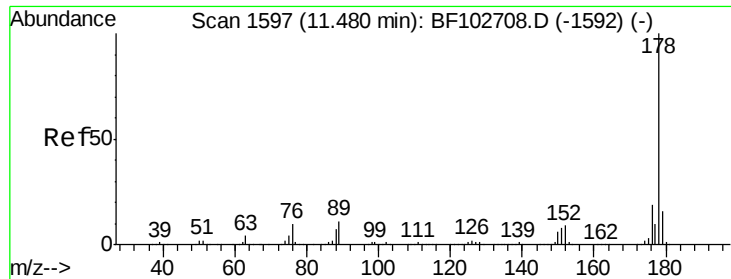
2/13/2018 11:26:15 AM



#70
Phenanthrene
Concen: 51.612 ng
RT: 11.44 min Scan# 1590
Delta R.T. 0.01 min
Lab File: BF102940.D
Acq: 13 Feb 2018 1:00

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1128160		
176	19.4		15.8	23.8
179	15.9		13.0	19.6



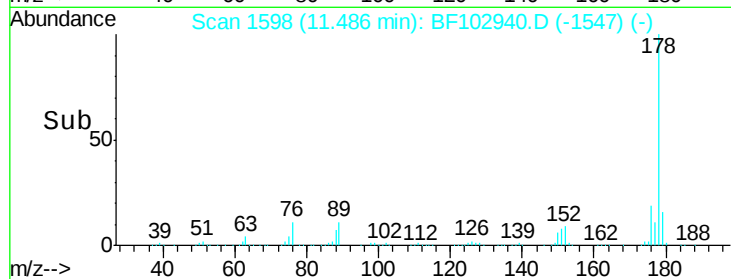
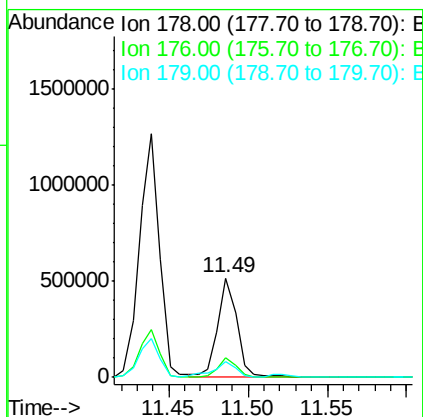
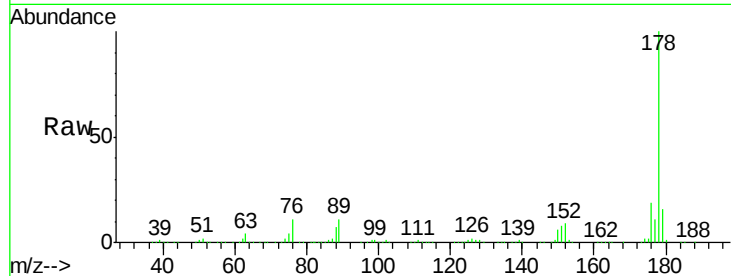


#71
 Anthracene
 Concen: 19.751 ng
 RT: 11.49 min Scan# 1598
 Delta R.T. -0.00 min
 Lab File: BF102940.D
 Acq: 13 Feb 2018 1:00

Instrument :
 BNA_F
 ClientSampled :
 SP-07

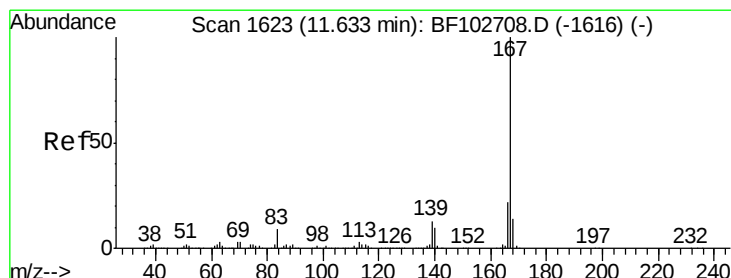
Tot Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	16.0	12.6	19.0

Manual Integrations
 APPROVED



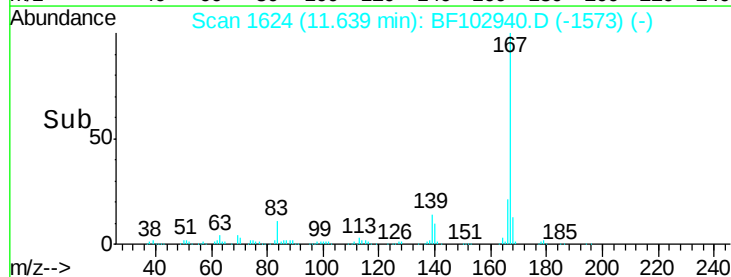
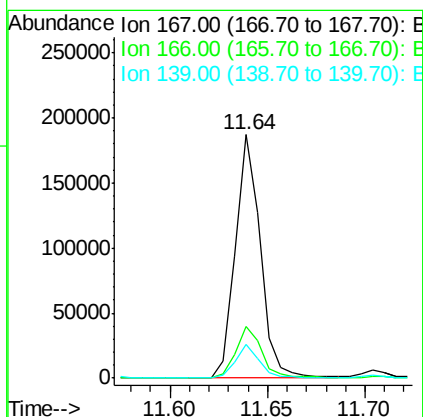
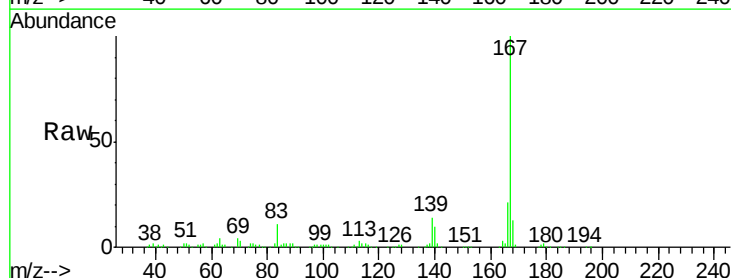
Sohil

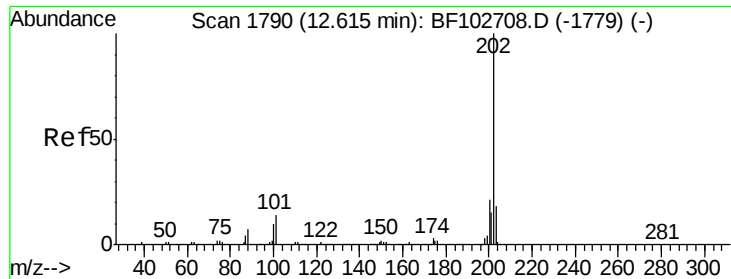
2/13/2018 11:26:15 AM



#72
 Carbazole
 Concen: 7.650 ng
 RT: 11.64 min Scan# 1624
 Delta R.T. -0.00 min
 Lab File: BF102940.D
 Acq: 13 Feb 2018 1:00

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.0	17.6	26.4
139	13.9	10.9	16.3





#74

Fluoranthene

Concen: 39.640 ng

RT: 12.63 min Scan# 1792

Delta R.T. 0.01 min

Lab File: BF102940.D

Acq: 13 Feb 2018 1:00

Instrument :

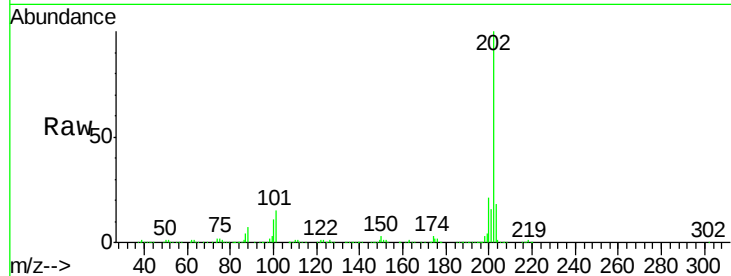
BNA_F

ClientSampled :

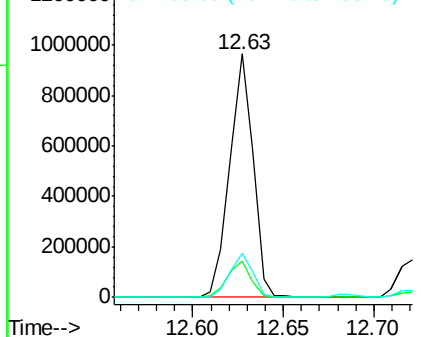
SP-07

Tot Ion:	202	Resp:	871773
Ion Ratio		Lower	Upper
202	100		
101	14.9	0.0	34.1
203	18.1	0.0	38.1

Manual Integrations
APPROVED

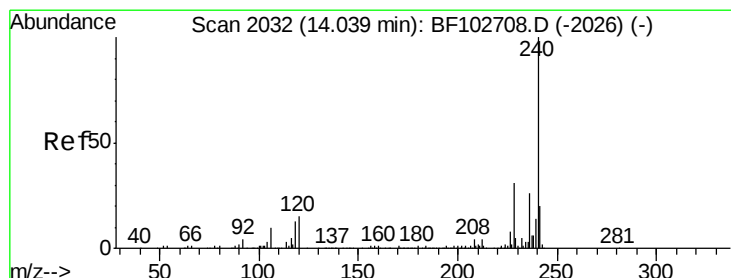
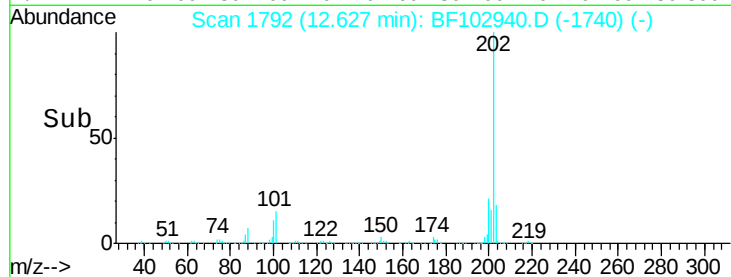


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



Sohil

2/13/2018 11:26:15 AM



#75

Chrysene-d12

Concen: 20.000 ng

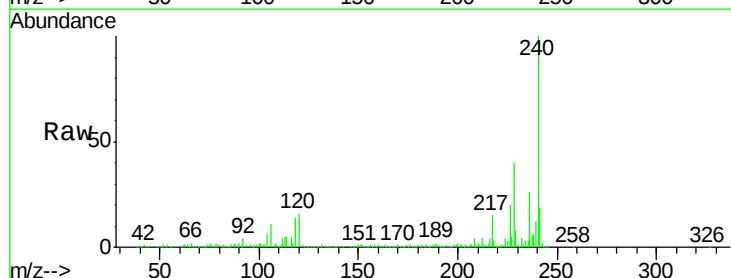
RT: 14.05 min Scan# 2034

Delta R.T. -0.00 min

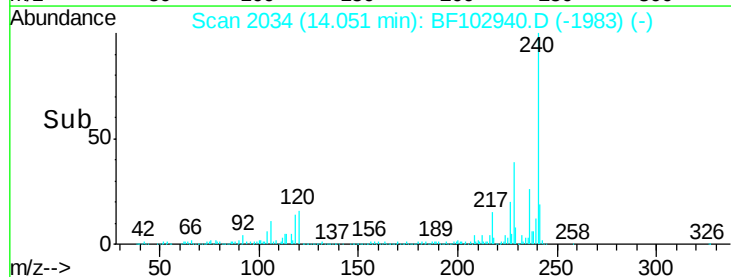
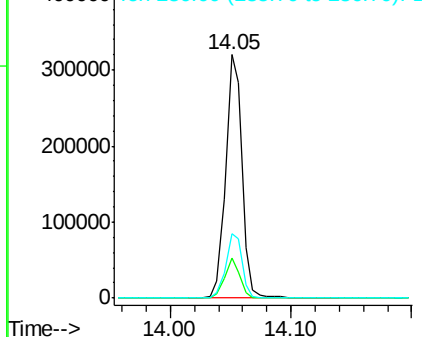
Lab File: BF102940.D

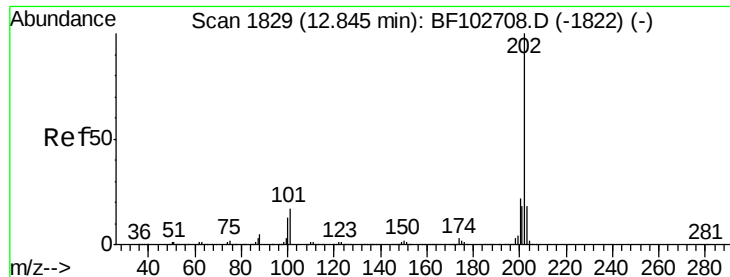
Acq: 13 Feb 2018 1:00

Tgt Ion:	240	Resp:	300664
Ion Ratio		Lower	Upper
240	100		
120	16.3	9.5	14.3#
236	26.4	20.7	31.1



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 29.199 ng

RT: 12.86 min Scan# 1831

Delta R.T. 0.01 min

Lab File: BF102940.D

Acq: 13 Feb 2018 1:00

Instrument :

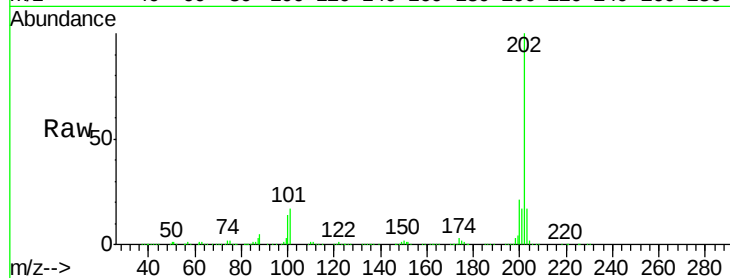
BNA_F

ClientSampleId :

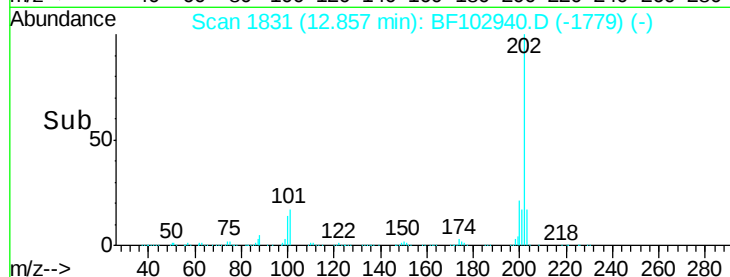
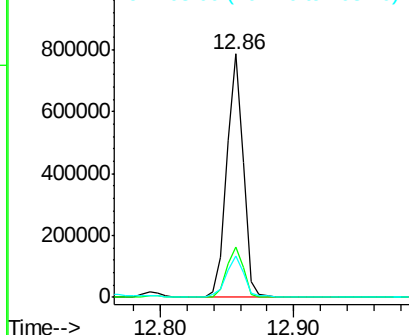
SP-07

Tot Ion:	202	Resp:	688408
Ion Ratio		Lower	Upper
202	100		
200	20.9	17.4	26.2
203	17.2	14.3	21.5

Manual Integrations
APPROVED

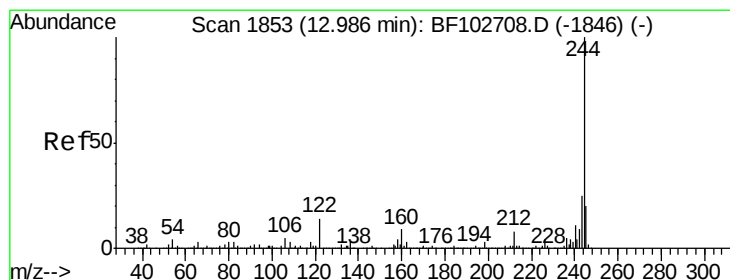


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



Sohil

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#78

Terphenyl-d14

Concen: 0.436 ng

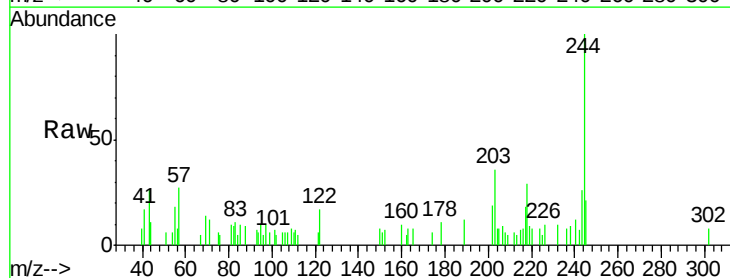
RT: 12.99 min Scan# 1854

Delta R.T. -0.01 min

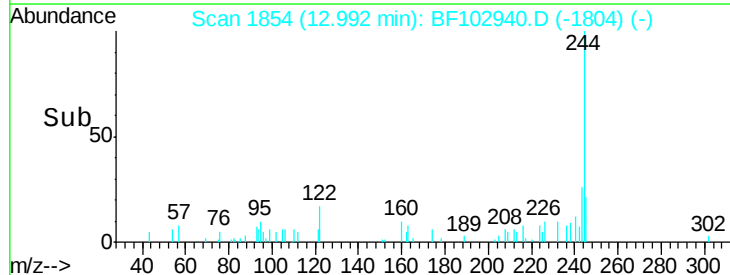
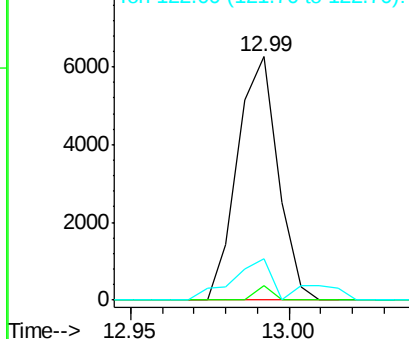
Lab File: BF102940.D

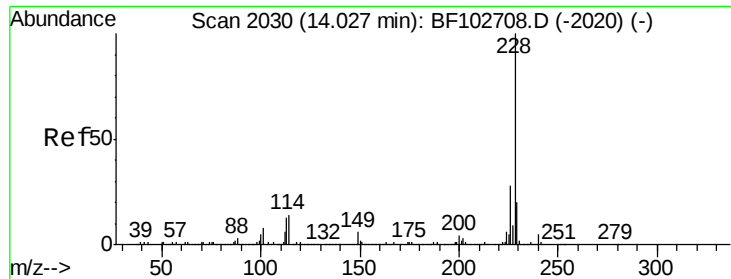
Acq: 13 Feb 2018 1:00

Tgt Ion:	244	Resp:	5537
Ion Ratio		Lower	Upper
244	100		
212	6.0	5.4	8.0
122	17.0	11.0	16.4#



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



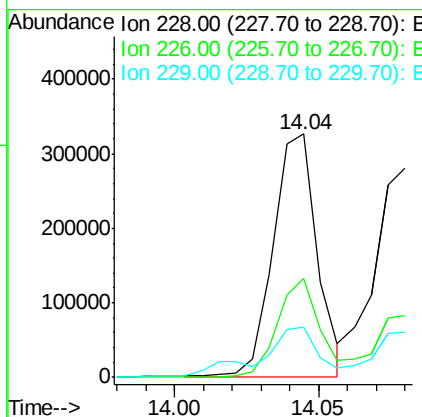
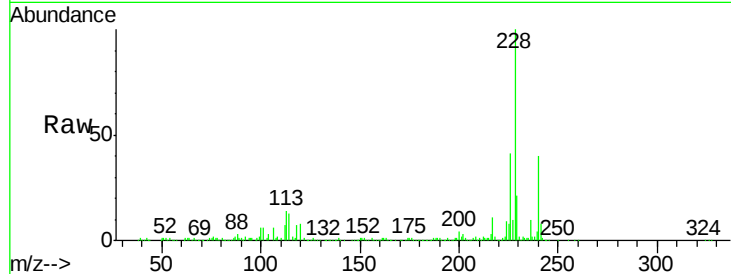


#80
Benzo(a)anthracene
Concen: 18.241 ng
RT: 14.04 min Scan# 2033
Delta R.T. 0.01 min
Lab File: BF102940.D
Acq: 13 Feb 2018 1:00

Instrument :
BNA_F
ClientSampled :
SP-07

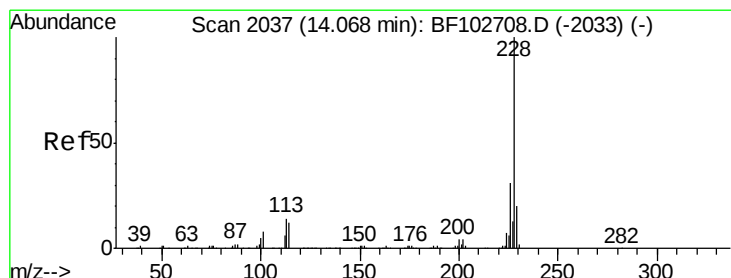
Tot Ion	Ratio	Lower	Upper
228	100		
226	40.5	22.6	33.8#
229	20.5	15.8	23.6

Manual Integrations
APPROVED



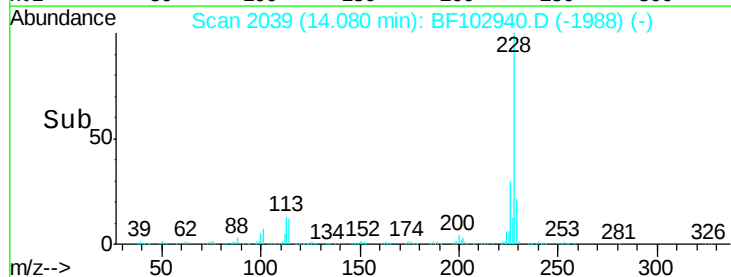
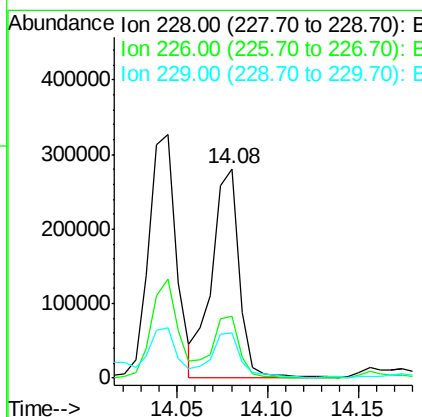
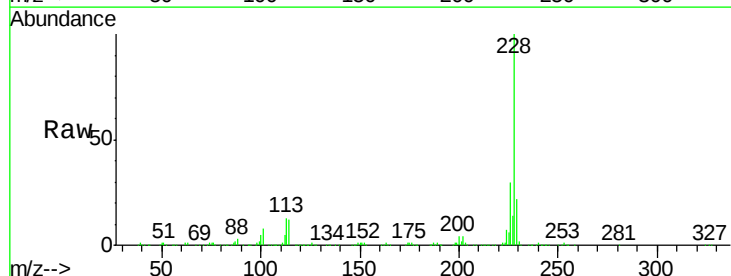
Sohil

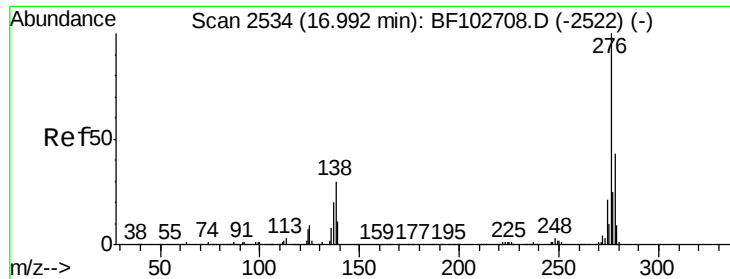
2/13/2018 11:26:15 AM



#82
Chrysene
Concen: 15.296 ng
RT: 14.08 min Scan# 2039
Delta R.T. -0.00 min
Lab File: BF102940.D
Acq: 13 Feb 2018 1:00

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.8	25.0	37.6
229	21.7	16.2	24.4



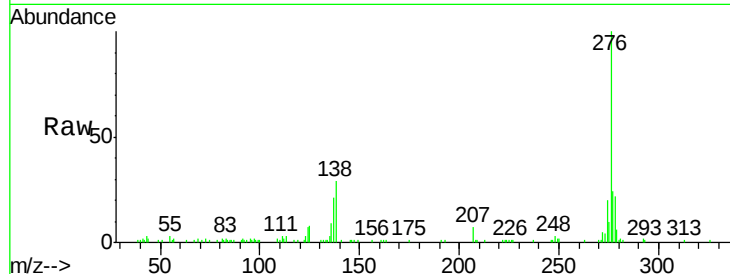


#85
Indeno(1,2,3-cd)pyrene
Concen: 5.804 ng
RT: 17.03 min Scan# 2541
Delta R.T. 0.02 min
Lab File: BF102940.D
Acq: 13 Feb 2018 1:00

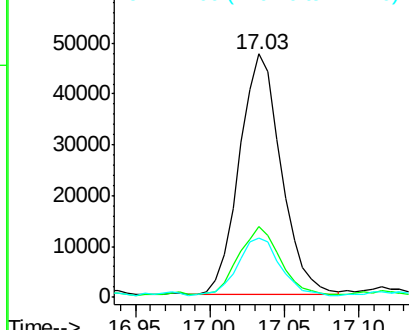
Instrument :
BNA_F
ClientSampleId :
SP-07

Tot Ion	Ratio	Lower	Upper
276	100		
138	27.8	25.0	37.6
277	24.0	20.1	30.1

Manual Integrations
APPROVED

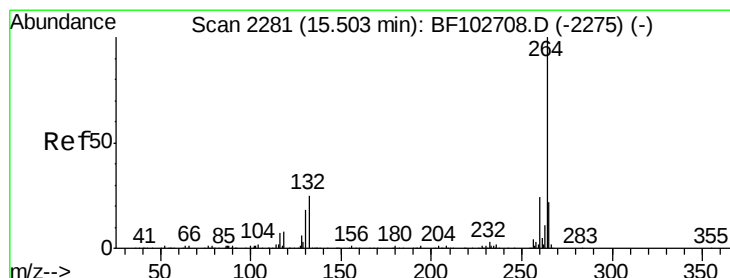
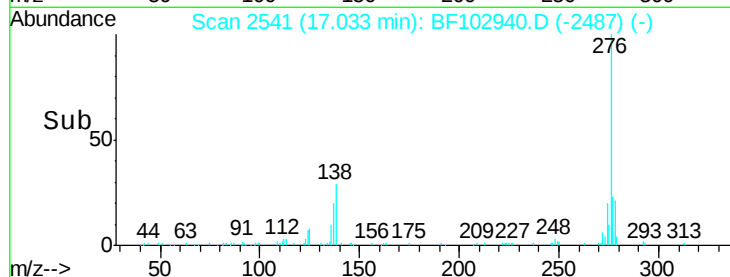


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



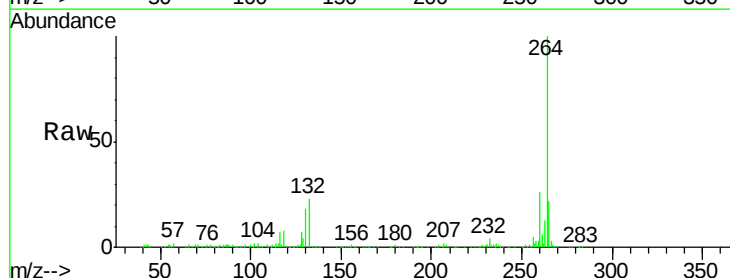
Sohil

2/13/2018 11:26:15 AM

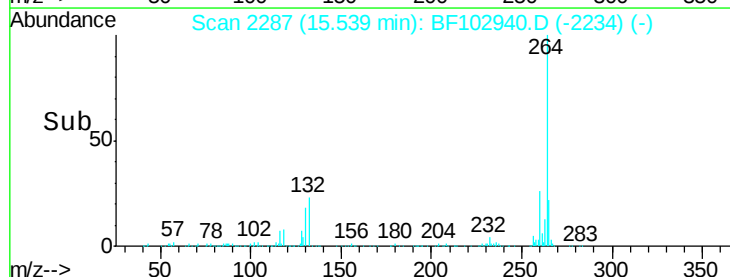
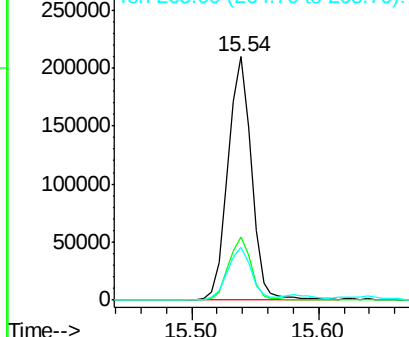


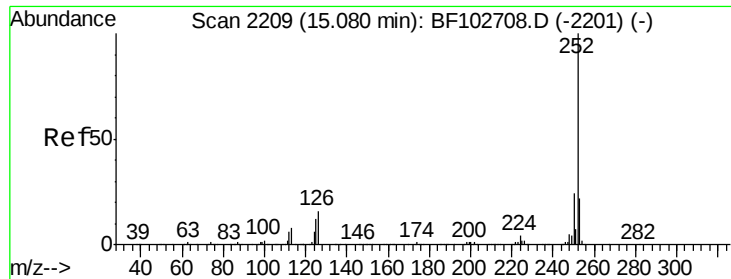
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.54 min Scan# 2287
Delta R.T. 0.01 min
Lab File: BF102940.D
Acq: 13 Feb 2018 1:00

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.7	19.2	28.8
265	21.6	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



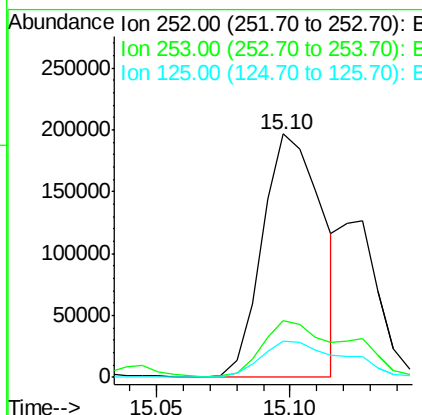
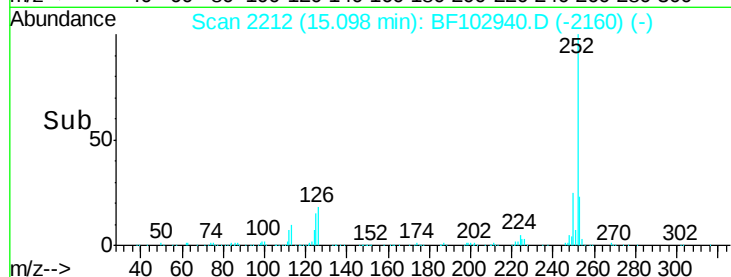
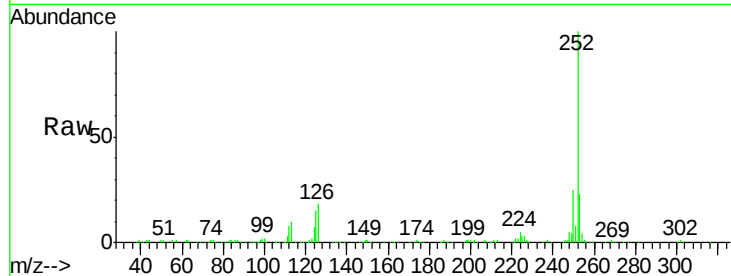


#87
Benzo(b)fluoranthene
Concen: 17.543 ng m
RT: 15.10 min Scan# 2212
Delta R.T. 0.01 min
Lab File: BF102940.D
Acq: 13 Feb 2018 1:00

Instrument :
BNA_F
ClientSampled :
SP-07

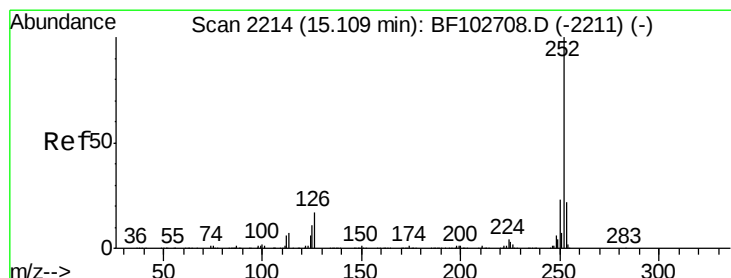
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.0	25.6
125	15.0	9.0	13.6

Manual Integrations
APPROVED



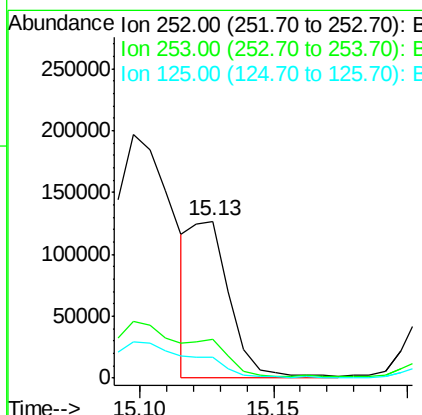
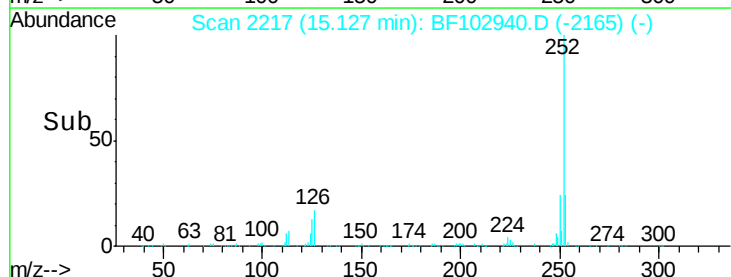
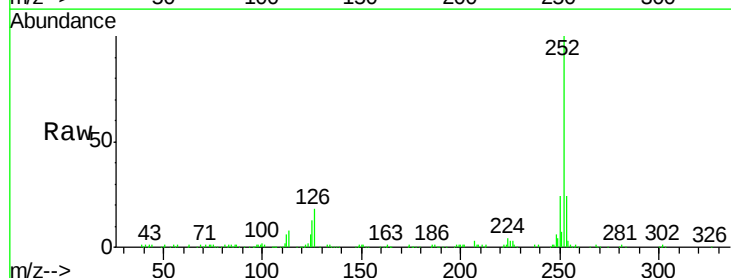
Sohil

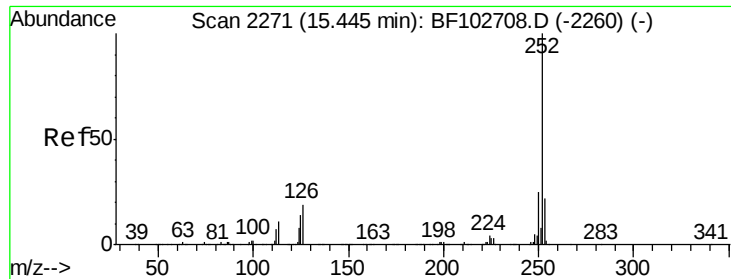
2/13/2018 11:26:15 AM



#88
Benzo(k)fluoranthene
Concen: 7.590 ng m
RT: 15.13 min Scan# 2217
Delta R.T. 0.01 min
Lab File: BF102940.D
Acq: 13 Feb 2018 1:00

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.9	26.9
125	13.4	10.2	15.2



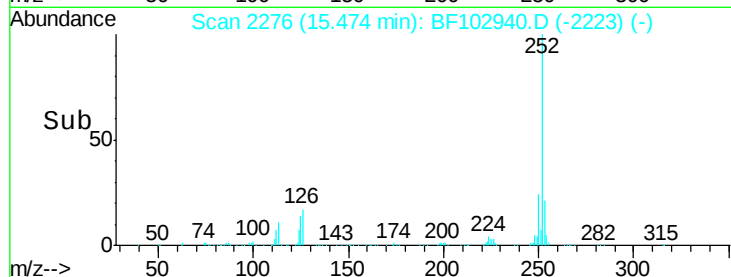
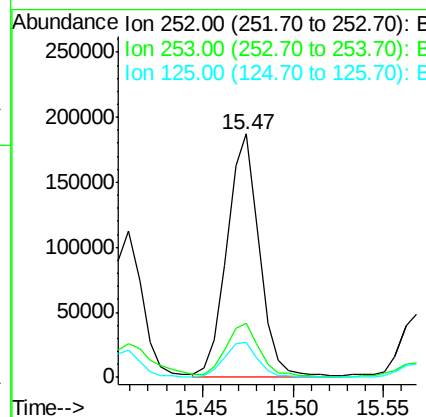
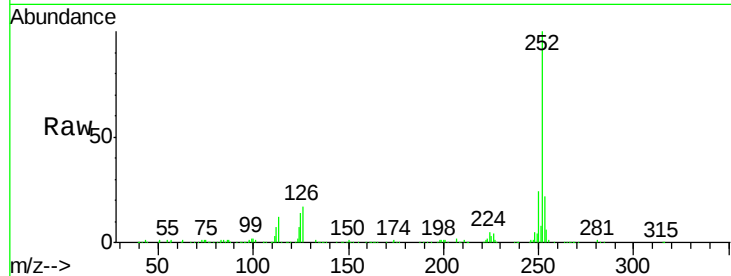


#89
Benzo(a)pyrene
Concen: 14.687 ng
RT: 15.47 min Scan# 2276
Delta R.T. 0.01 min
Lab File: BF102940.D
Acq: 13 Feb 2018 1:00

Instrument :
BNA_F
ClientSampled :
SP-07

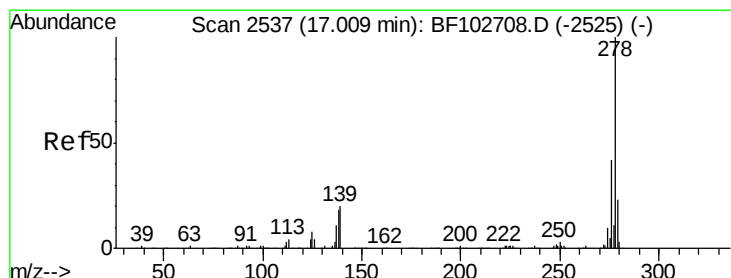
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.1	25.7
125	14.1	9.8	14.6

Manual Integrations
APPROVED



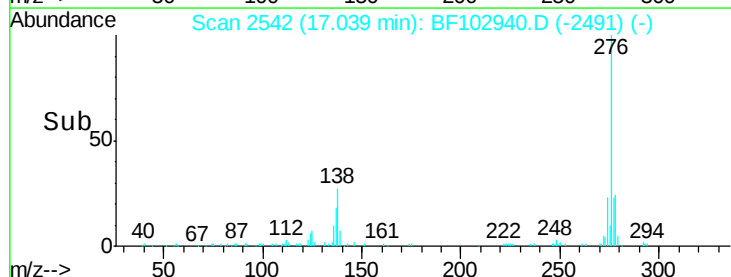
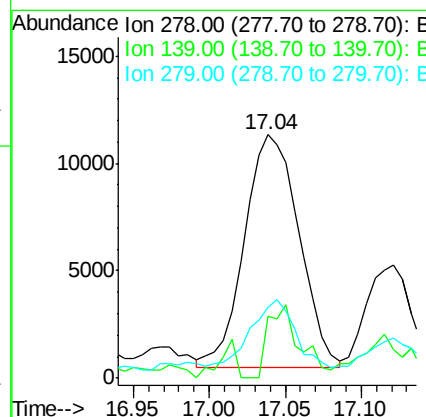
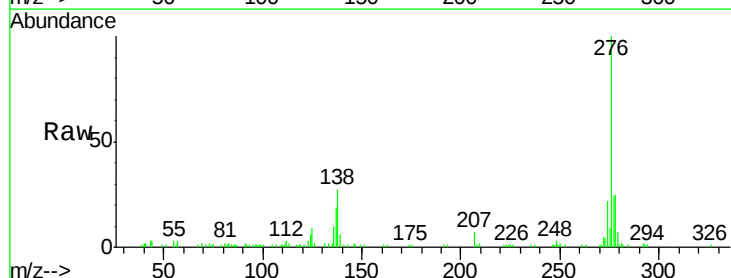
Sohil

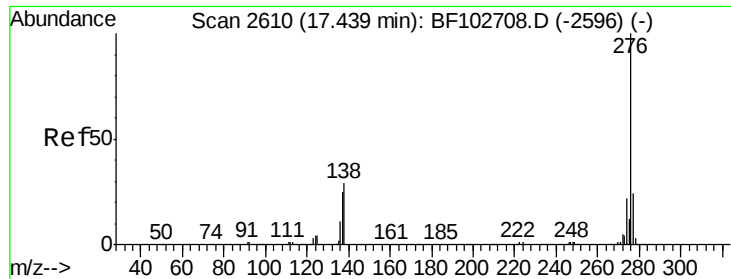
2/13/2018 11:26:15 AM



#90
Dibenzo(a,h)anthracene
Concen: 2.116 ng m
RT: 17.04 min Scan# 2542
Delta R.T. -0.00 min
Lab File: BF102940.D
Acq: 13 Feb 2018 1:00

Tgt Ion	Ratio	Lower	Upper
278	100		
139	25.4	15.9	23.9#
279	29.0	19.0	28.4#



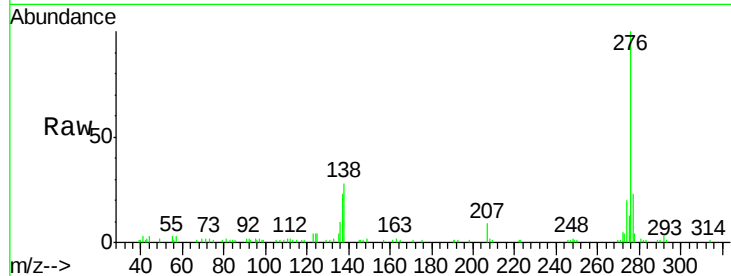


#91
 Benzo(a,h,i)perylene
 Concen: 6.224 ng
 RT: 17.49 min Scan# 2618
 Delta R.T. 0.01 min
 Lab File: BF102940.D
 Acq: 13 Feb 2018 1:00

Instrument :
 BNA_F
 ClientSampleId :
 SP-07

Tot Ion:	276	Resp:	77403
Ion Ratio		Lower	Upper
276	100		
277	23.3	17.9	26.9
138	27.6	21.8	32.8

Manual Integrations
 APPROVED

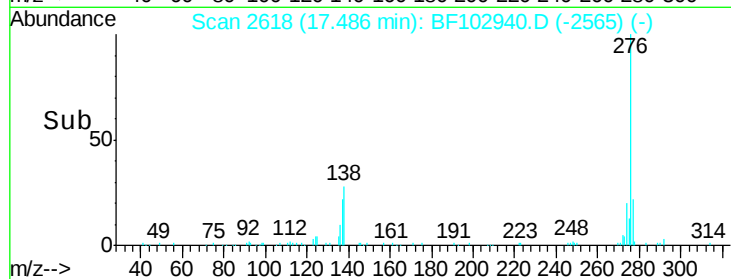
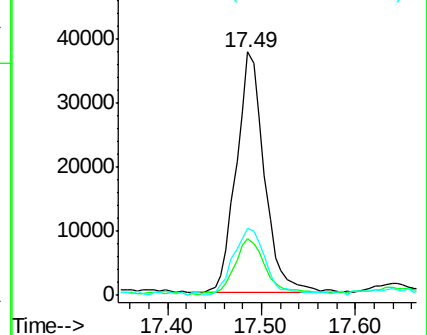


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E



Sohil

2/13/2018 11:26:15 AM