

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052319\
 Data File : BF114536.D
 Acq On : 23 May 2019 21:08
 Operator : JU/SJ
 Sample : K2978-01 2X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RO-SOIL

Manual Integrations
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Quant Time: May 24 07:54:05 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 24 07:23:33 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	198629	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	794063	20.00	ng	0.00
39) Acenaphthene-d10	9.85	164	386884	20.00	ng	0.00
64) Phenanthrene-d10	11.33	188	748628	20.00	ng	0.00
76) Chrysene-d12	13.99	240	422222	20.00	ng	0.00
87) Perylene-d12	15.46	264	556669	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	297805	24.13	ng	0.00
7) Phenol-d6	6.46	99	406181	27.82	ng	0.00
23) Nitrobenzene-d5	7.37	82	229822	16.24	ng	0.00
42) 2,4,6-Tribromophenol	10.64	330	99668	24.92	ng	0.00
45) 2-Fluorobiphenyl	9.17	172	462603	18.09	ng	0.00
79) Terphenyl-d14	12.92	244	435520	21.26	ng	0.00

Target Compounds				Qvalue		
31) Naphthalene	8.12	128	158849	4.283	ng	99
49) Acenaphthylene	9.71	152	462527	12.090	ng	97
50) Dimethylphthalate	9.56	163	58400	2.056	ng	100
71) Phenanthrene	11.36	178	864956	23.748	ng	97
72) Anthracene	11.41	178	495082	13.533	ng	98
75) Fluoranthene	12.56	202	2999553	76.477	ng	97
78) Pyrene	12.80	202	3378339	99.463	ng	98
81) Benzo(a)anthracene	13.98	228	2010526m	73.621	ng	
83) Chrysene	14.02	228	1666177	62.239	ng	98
84) Bis(2-ethylhexyl)phthalate	13.95	149	55137	2.949	ng	# 97
86) Indeno(1,2,3-cd)pyrene	16.95	276	1563068	66.065	ng	94
88) Benzo(b)fluoranthene	15.04	252	2865631m	80.352	ng	
89) Benzo(k)fluoranthene	15.06	252	641460m	19.580	ng	
90) Benzo(a)pyrene	15.41	252	2109007	67.194	ng	99
91) Dibenzo(a,h)anthracene	16.94	278	369543m	14.169	ng	
92) Benzo(g,h,i)perylene	17.40	276	1640881	62.780	ng	99

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

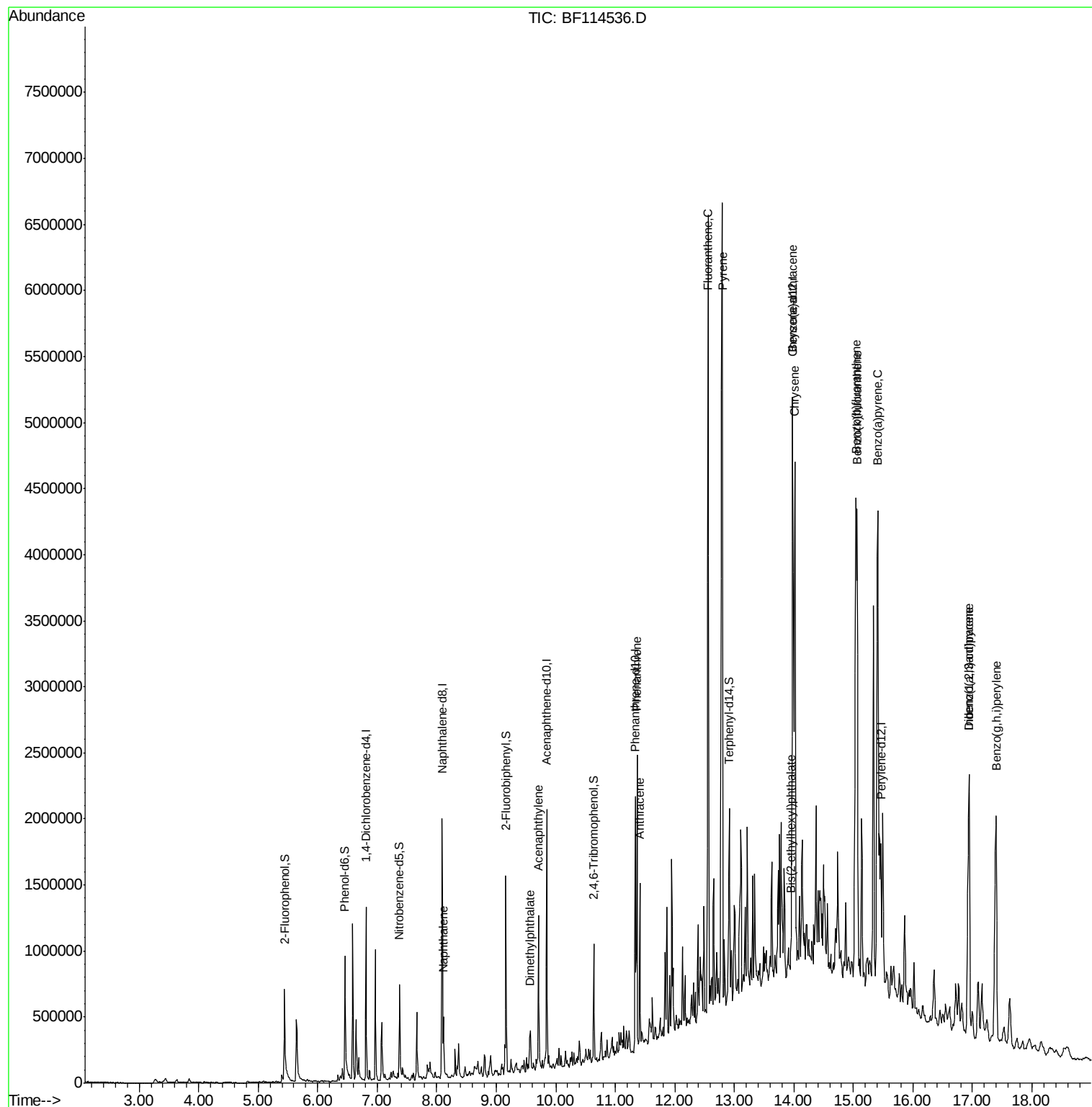
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052319\
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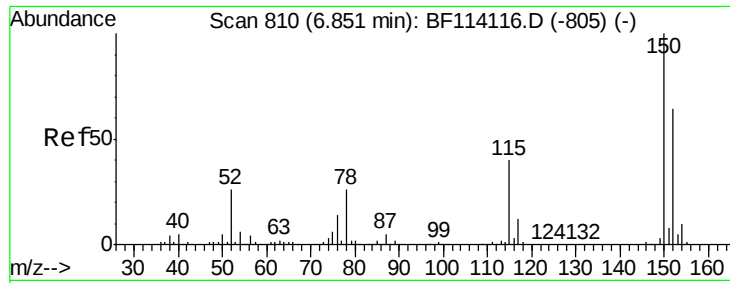
Instrument :
BNA_F
ClientSampled :
RO-SOIL

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Quant Time: May 24 07:54:05 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 24 07:23:33 2019
Response via : Initial Calibration





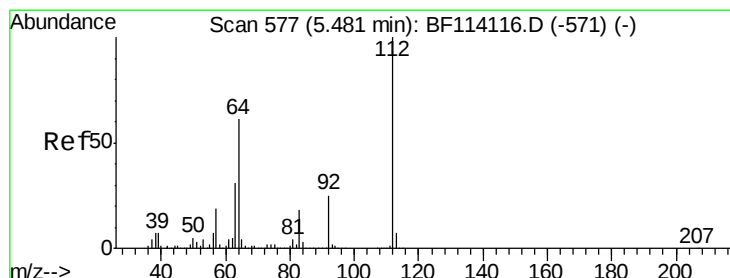
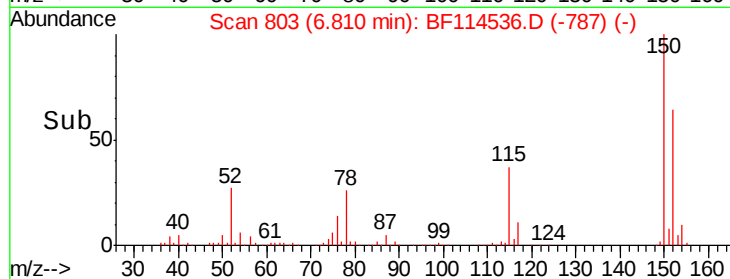
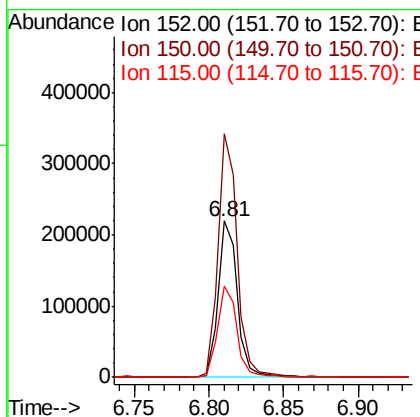
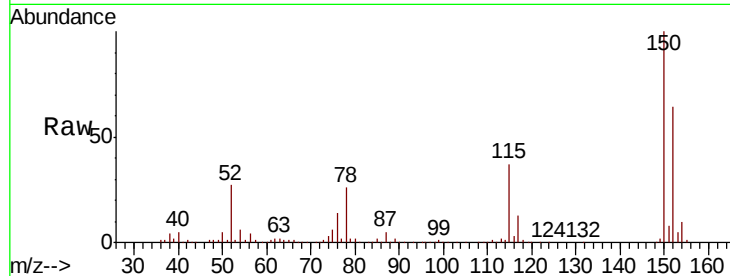
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.81 min Scan# 803
 Delta R.T. -0.01 min
 Lab File: BF114536.D
 Acq: 23 May 2019 21:08

Instrument :
 BNA_F
 ClientSampleId :
 RO-SOIL

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.6	124.3	186.5
115	58.1	49.1	73.7

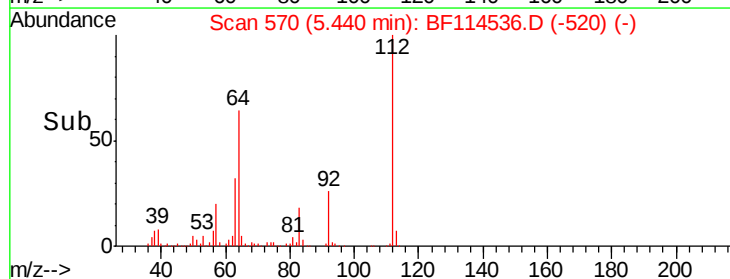
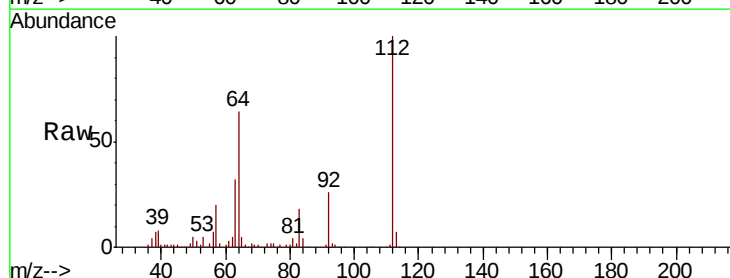
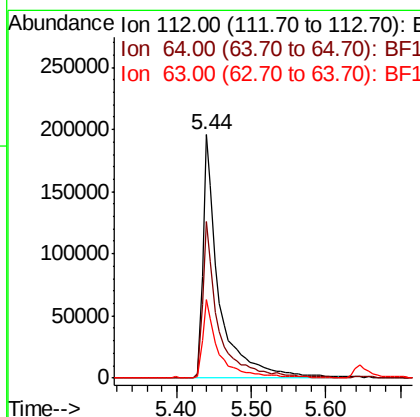
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#5
 2-Fluorophenol
 Concen: 24.128 ng
 RT: 5.44 min Scan# 570
 Delta R.T. -0.01 min
 Lab File: BF114536.D
 Acq: 23 May 2019 21:08

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.1	49.0	73.6
63	32.5	24.6	37.0





#7

Phenol-d6

Concen: 27.824 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.01 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Instrument :

BNA_F

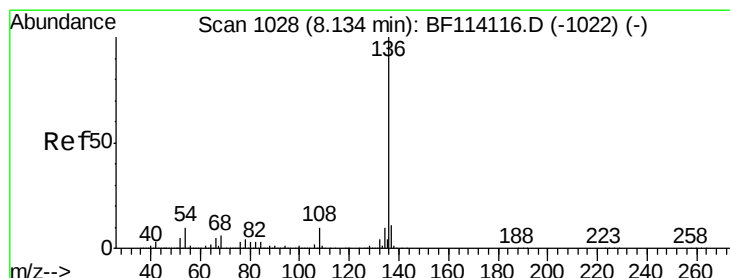
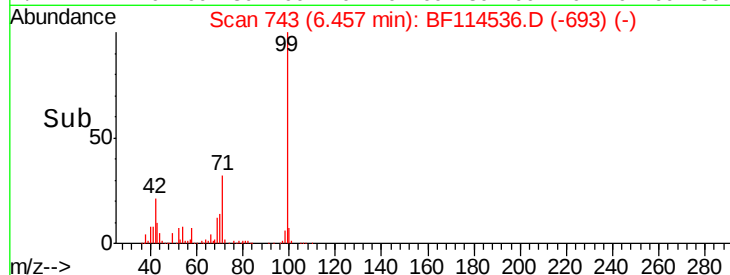
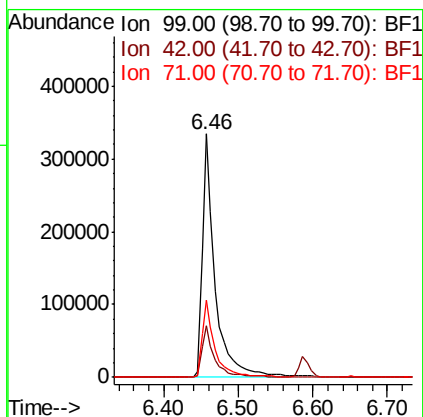
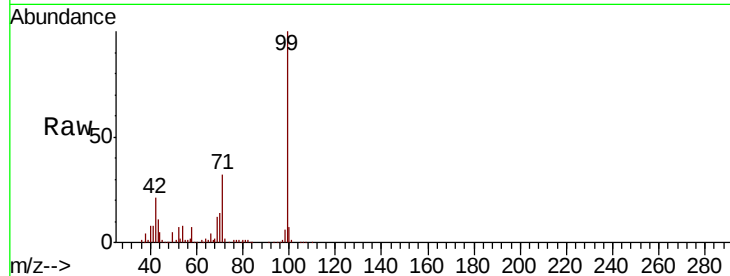
ClientSampleId :

RO-SOIL

Tot Ion:	99	Resp:	406181
Ion Ratio	Lower	Upper	
99	100		
42	21.2	17.9	26.9
71	31.5	26.2	39.2

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#21

Naphthalene-d8

Concen: 20.000 ng

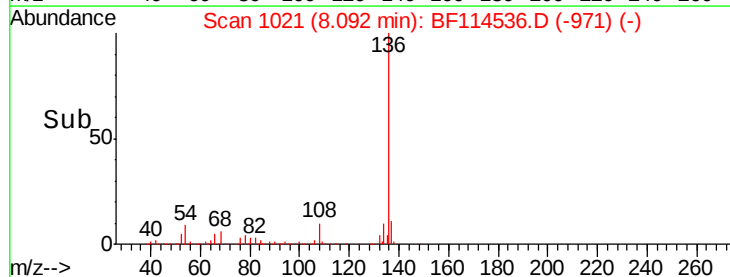
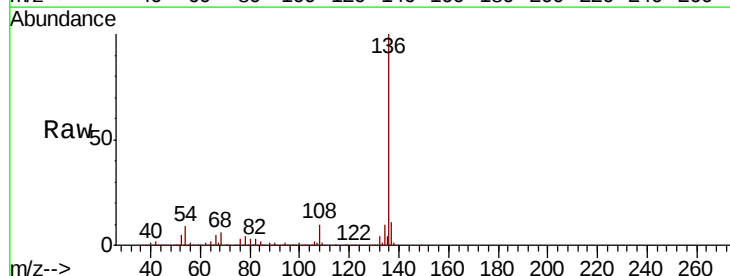
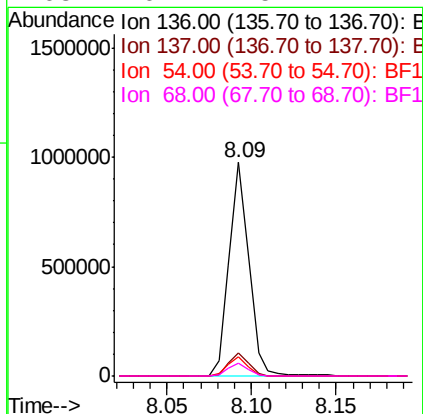
RT: 8.09 min Scan# 1021

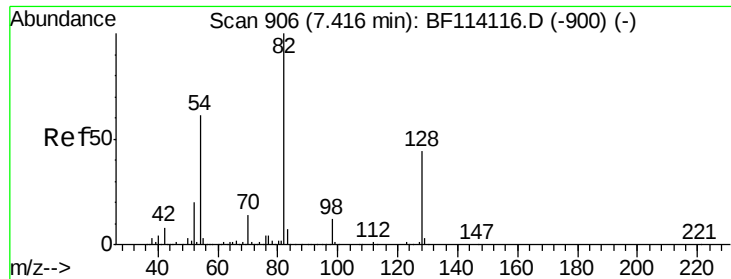
Delta R.T. -0.01 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Tgt Ion:	136	Resp:	794063
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.8	13.2
54	9.2	7.8	11.8
68	6.1	5.1	7.7





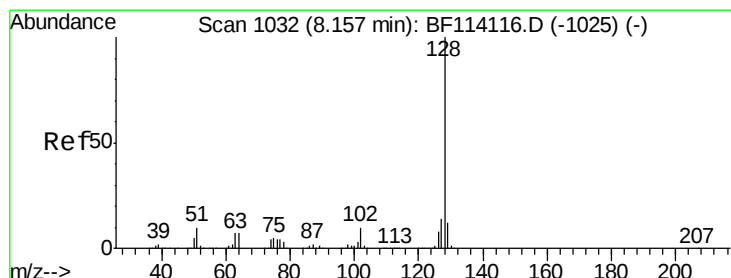
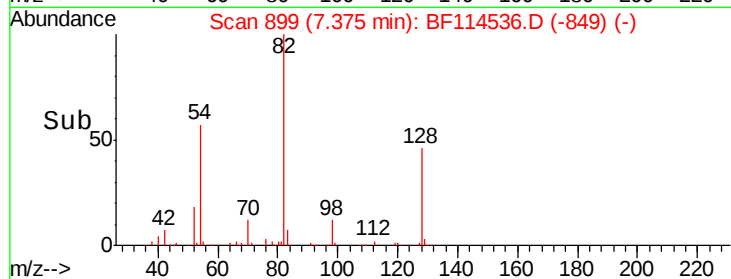
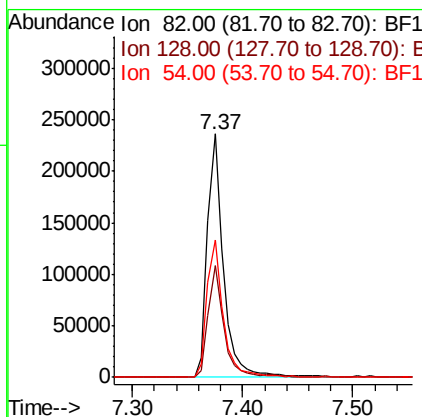
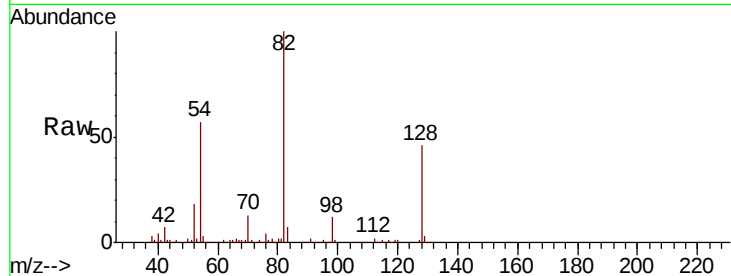
#23
 Nitrobenzene-d5
 Concen: 16.243 ng
 RT: 7.37 min Scan# 899
 Delta R.T. -0.01 min
 Lab File: BF114536.D
 Acq: 23 May 2019 21:08

Instrument :
 BNA_F
 ClientSampleId :
 RO-SOIL

Tot Ion	Ratio	Resp	Lower	Upper
82	100	229822		
128	45.9	35.5	53.3	
54	56.6	48.5	72.7	

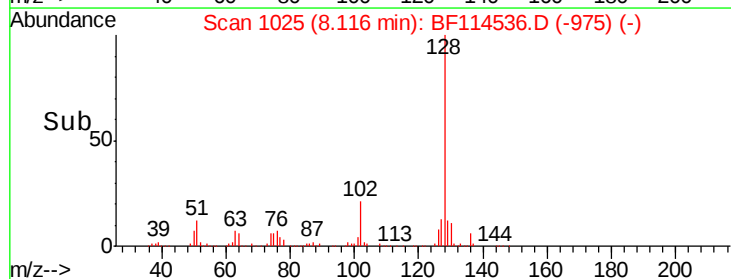
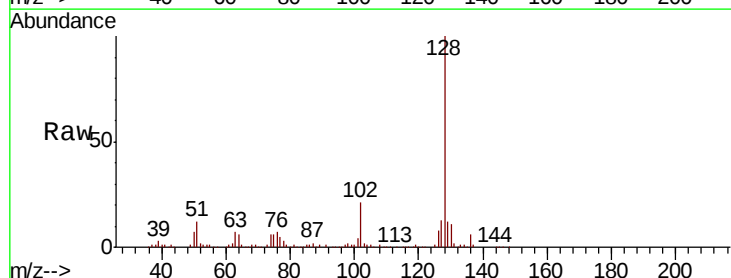
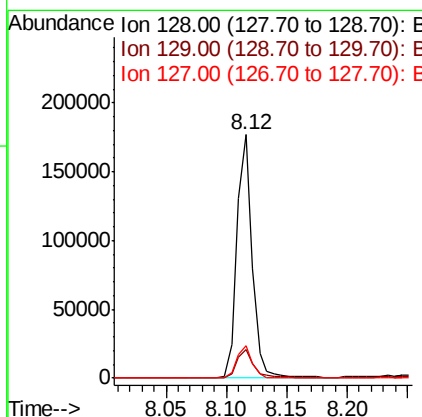
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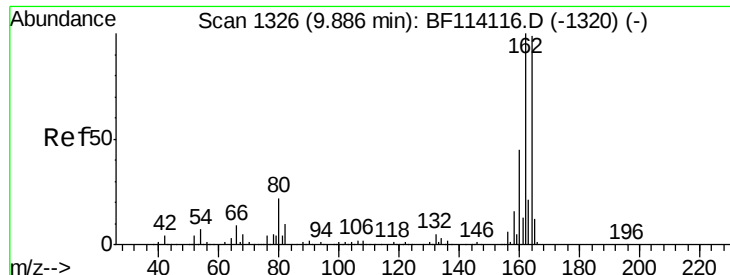
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#31
 Naphthalene
 Concen: 4.283 ng
 RT: 8.12 min Scan# 1025
 Delta R.T. -0.01 min
 Lab File: BF114536.D
 Acq: 23 May 2019 21:08

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	158849		
129	11.8	9.6	14.4	
127	13.4	11.3	16.9	





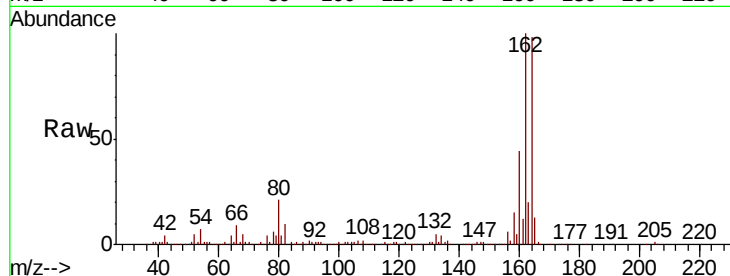
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.01 min
Lab File: BF114536.D
Acq: 23 May 2019 21:08

Instrument :
BNA_F
ClientSampled :
RO-SOIL

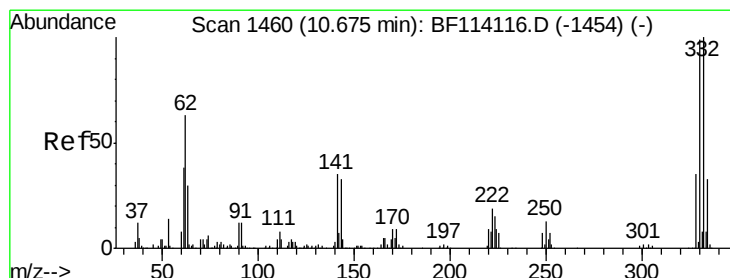
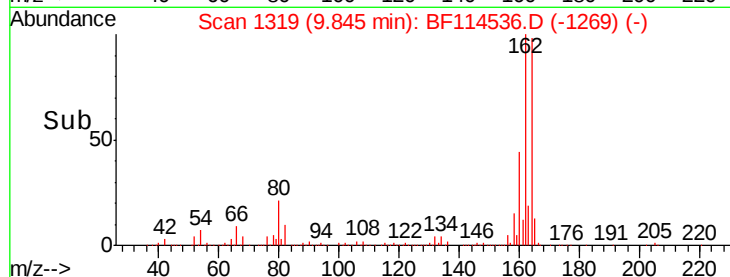
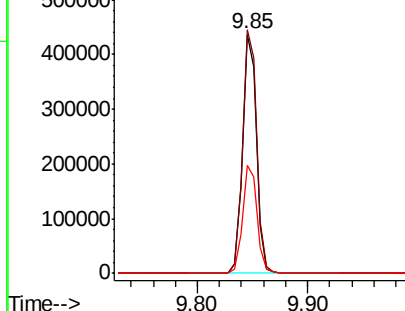
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	101.9	80.6	120.8	
160	45.3	36.5	54.7	

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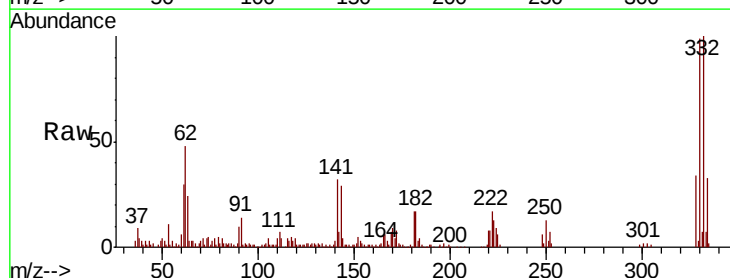


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

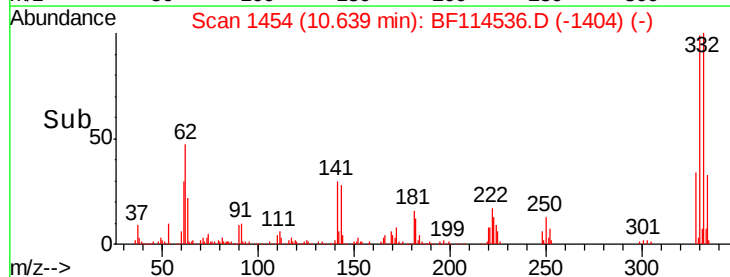
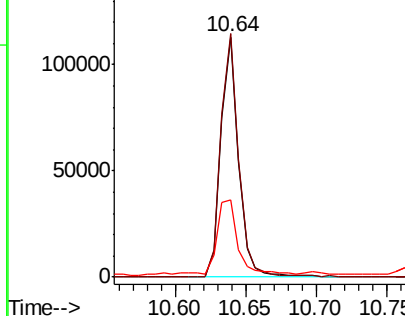


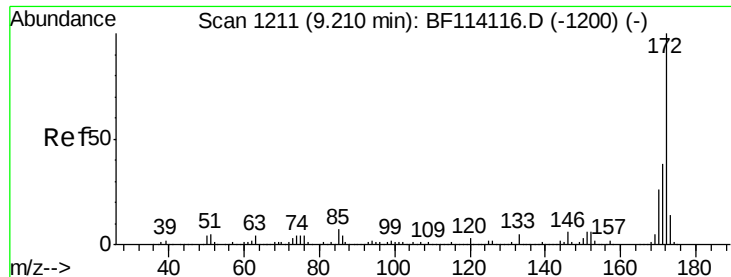
#42
2,4,6-Tribromophenol
Concen: 24.919 ng
RT: 10.64 min Scan# 1454
Delta R.T. -0.01 min
Lab File: BF114536.D
Acq: 23 May 2019 21:08

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	102.1	81.4	122.2	
141	34.6	26.6	40.0	



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E





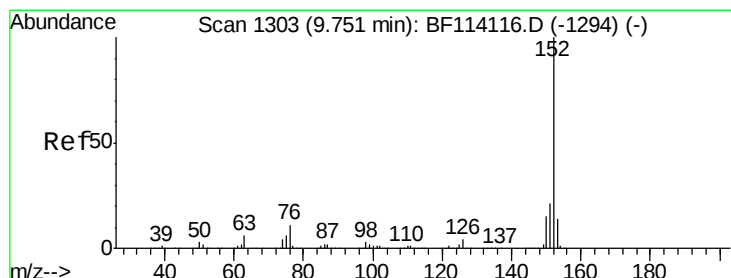
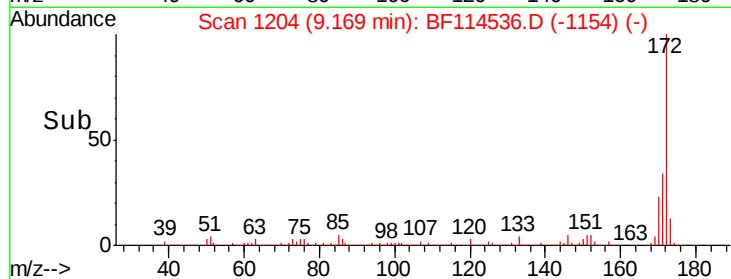
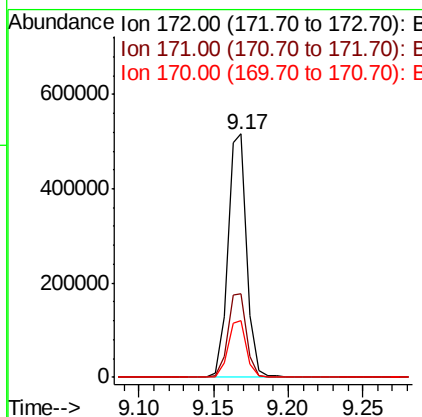
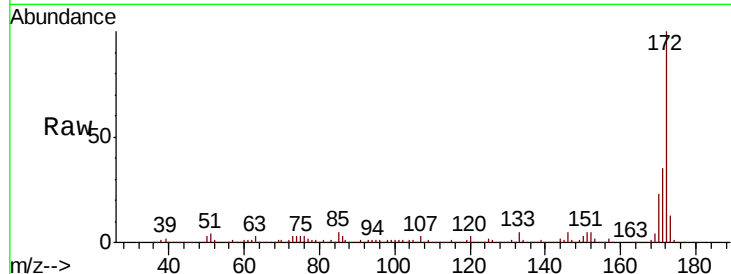
#45
2-Fluorobiphenyl
Concen: 18.087 ng
RT: 9.17 min Scan# 1204
Delta R.T. -0.01 min
Lab File: BF114536.D
Acq: 23 May 2019 21:08

Instrument :
BNA_F
ClientSampleId :
RO-SOIL

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.5	30.7	46.1
170	23.1	20.5	30.7

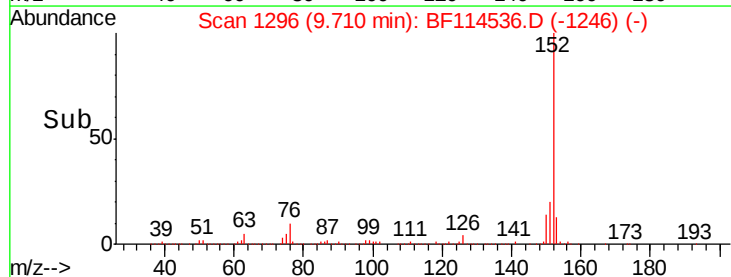
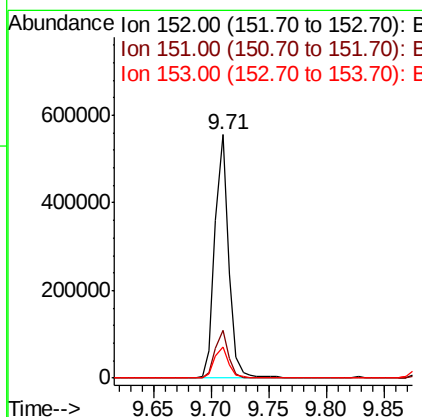
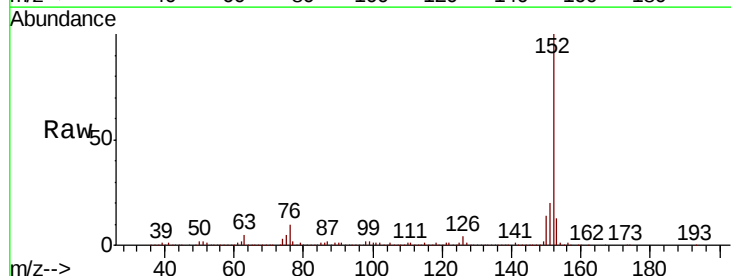
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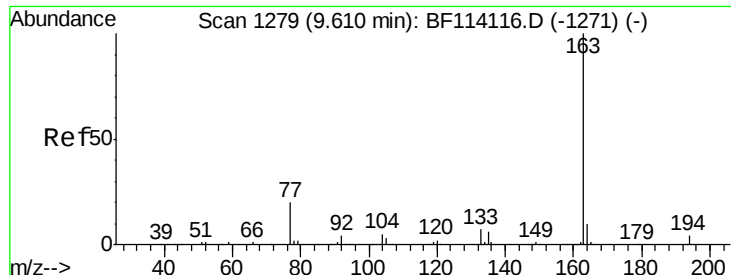
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#49
Acenaphthylene
Concen: 12.090 ng
RT: 9.71 min Scan# 1296
Delta R.T. -0.01 min
Lab File: BF114536.D
Acq: 23 May 2019 21:08

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.8	25.2
153	12.9	11.4	17.2





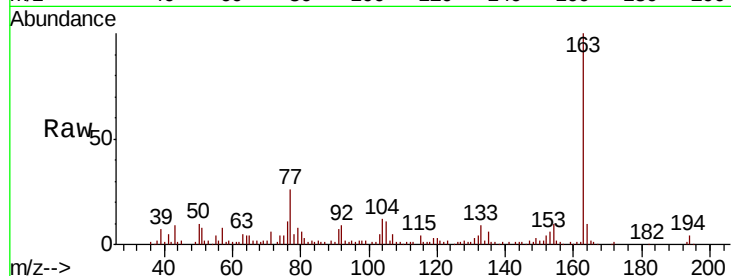
#50
Dimethylphthalate
Concen: 2.056 ng
RT: 9.56 min Scan# 1271
Delta R.T. -0.01 min
Lab File: BF114536.D
Acq: 23 May 2019 21:08

Instrument :
BNA_F
ClientSampled :
RO-SOIL

Tot Ion	Ratio	Resp	Lower	Upper
163	100	58400		
194	4.1		3.4	5.0
164	10.0		8.2	12.2

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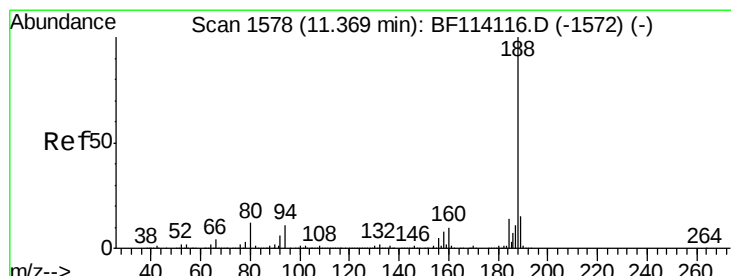
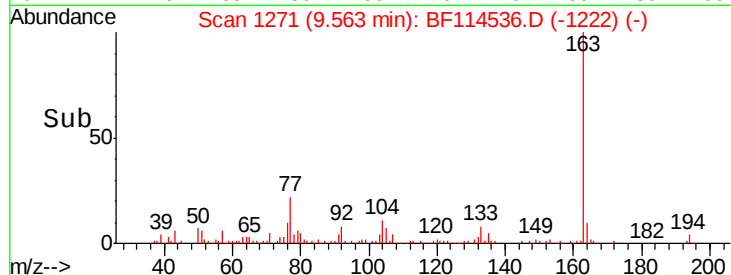
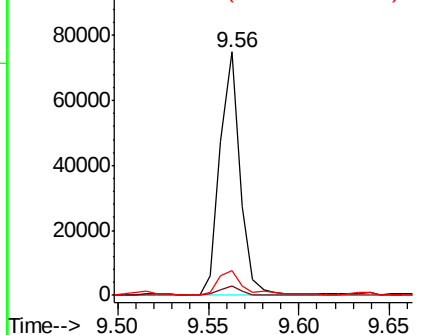


Abundance

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



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1572
Delta R.T. -0.01 min
Lab File: BF114536.D
Acq: 23 May 2019 21:08

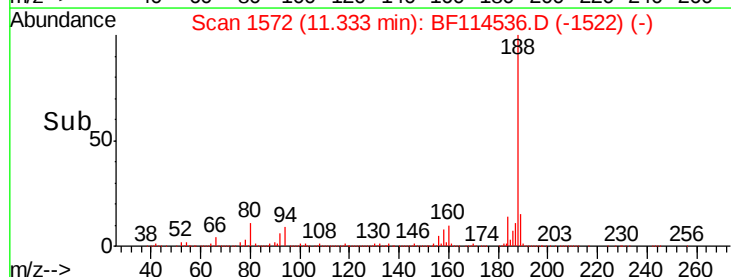
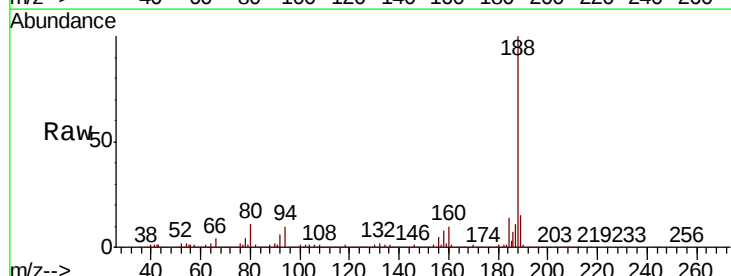
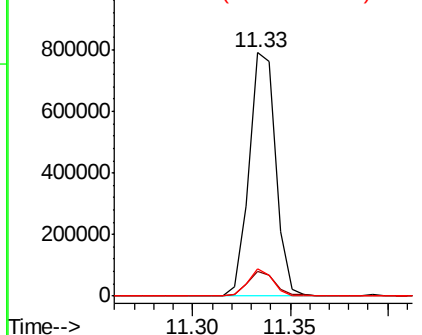
Tgt Ion	Ratio	Resp	Lower	Upper
188	100	748628		
94	10.4		8.4	12.6
80	11.3		9.2	13.8

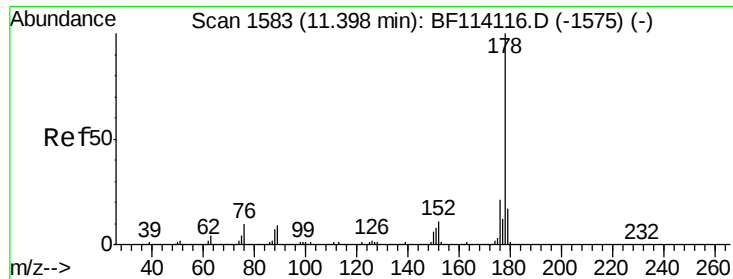
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





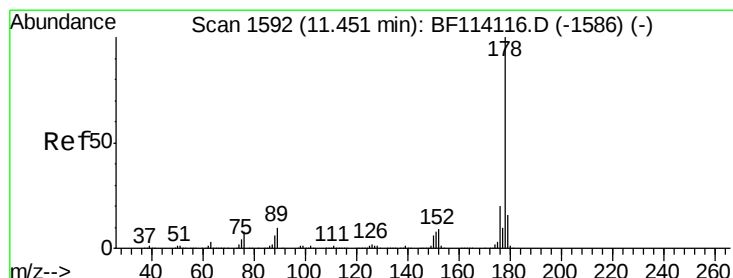
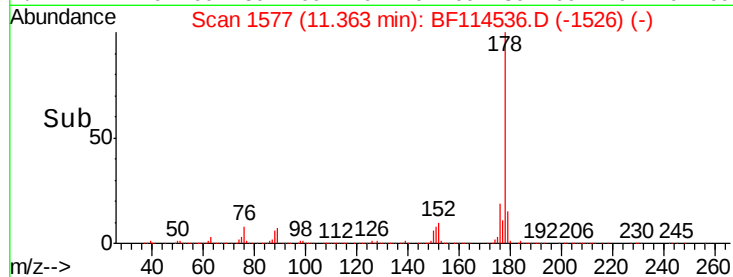
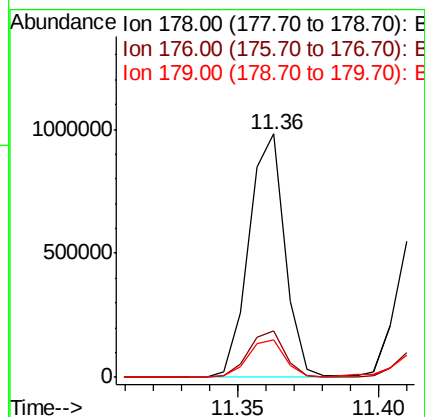
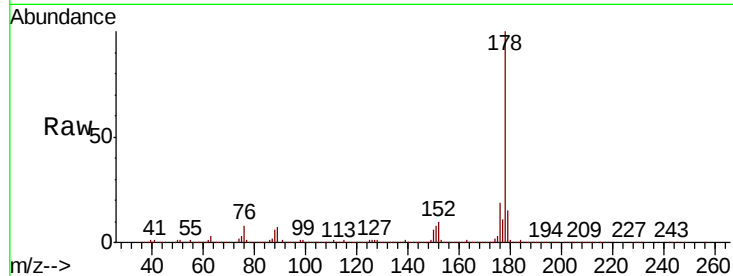
#71
Phenanthrene
Concen: 23.748 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.00 min
Lab File: BF114536.D
Acq: 23 May 2019 21:08

Instrument :
BNA_F
ClientSampled :
RO-SOIL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.0	16.4	24.6
179	15.4	13.2	19.8

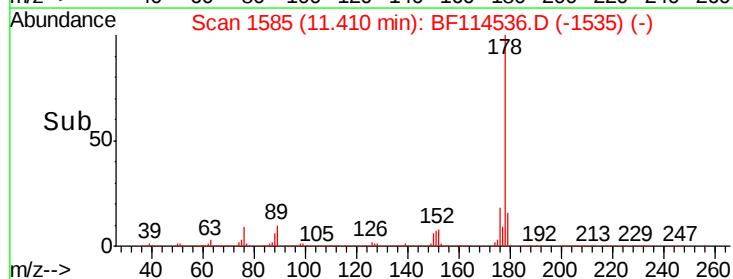
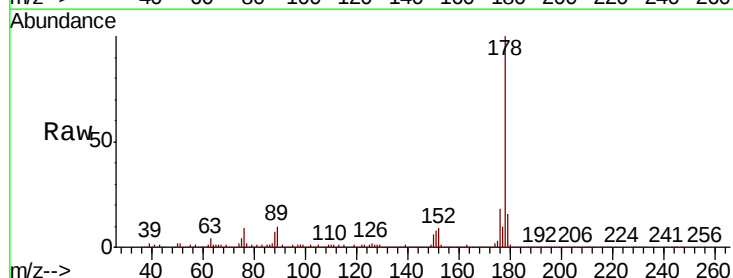
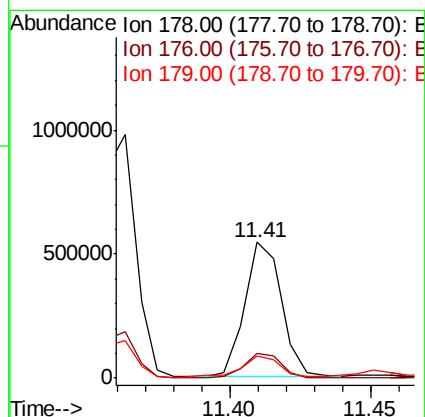
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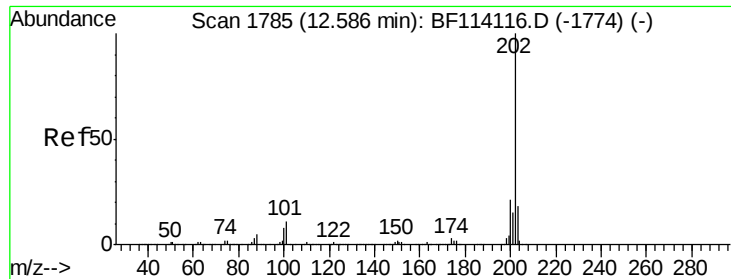
mohammad
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#72
Anthracene
Concen: 13.533 ng
RT: 11.41 min Scan# 1585
Delta R.T. -0.01 min
Lab File: BF114536.D
Acq: 23 May 2019 21:08

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.9	15.8	23.8
179	16.4	13.0	19.4





#75

Fluoranthene

Concen: 76.477 ng

RT: 12.56 min Scan# 1781

Delta R.T. 0.01 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Instrument :

BNA_F

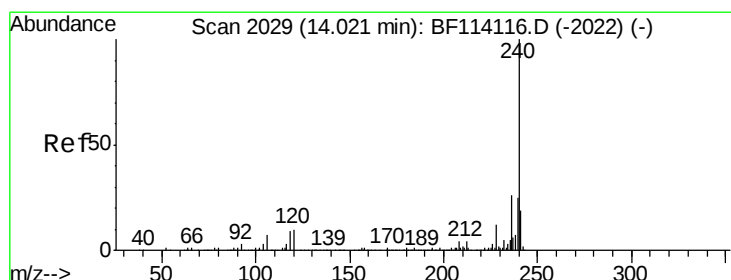
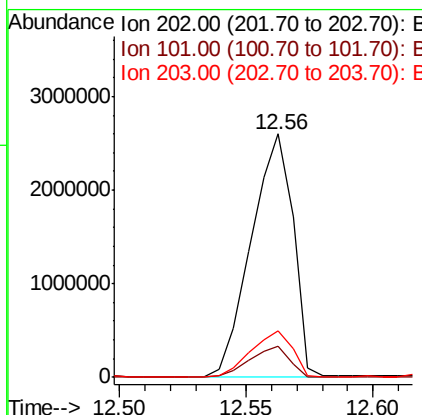
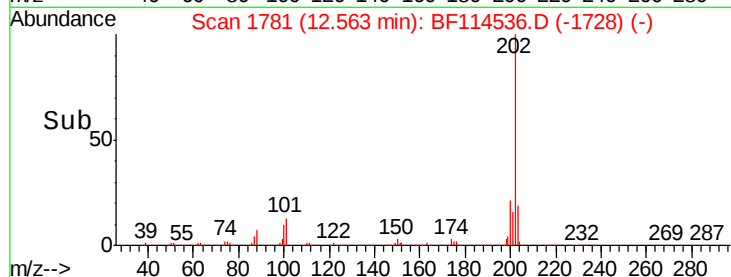
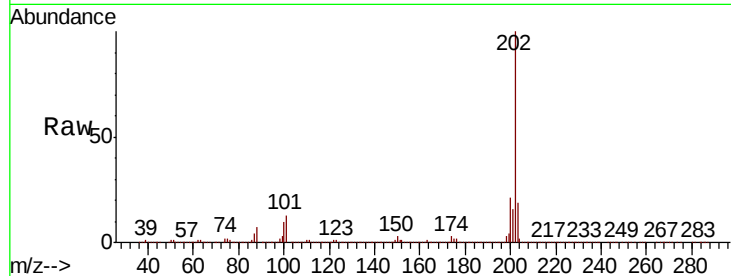
ClientSampled :

RO-SOIL

Tot Ion:	202	Resp:	2999553
Ion	Ratio	Lower	Upper
202	100		
101	13.0	0.0	31.0
203	19.1	0.0	38.4

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#76

Chrysene-d12

Concen: 20.000 ng

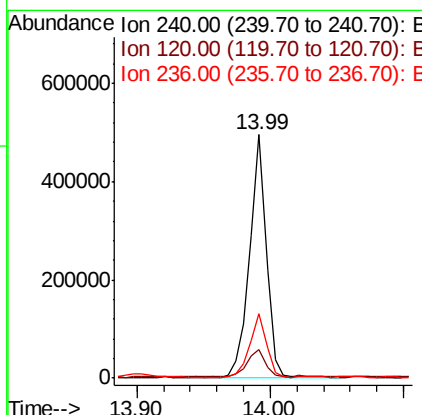
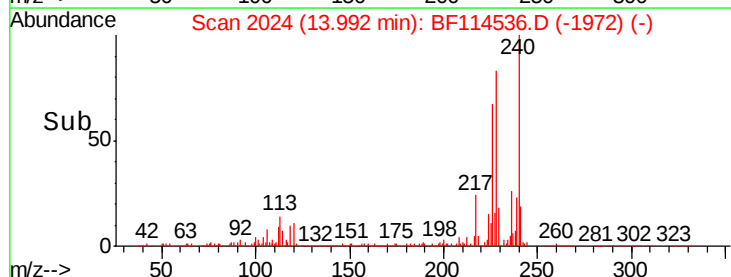
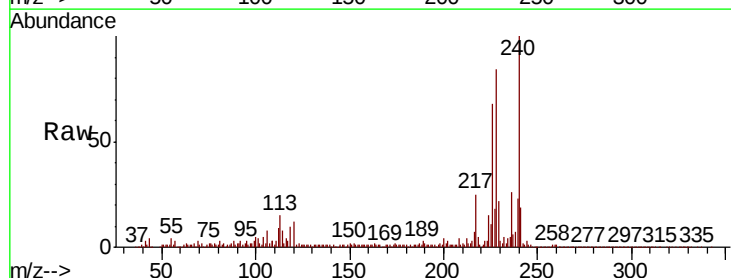
RT: 13.99 min Scan# 2024

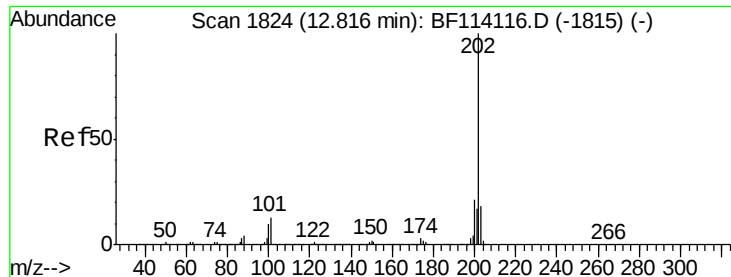
Delta R.T. 0.01 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Tgt Ion:	240	Resp:	422222
Ion	Ratio	Lower	Upper
240	100		
120	11.8	8.3	12.5
236	26.3	20.8	31.2





#78

Pvrene

Concen: 99.463 ng

RT: 12.80 min Scan# 1821

Delta R.T. 0.02 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Instrument :

BNA_F

ClientSampleId :

RO-SOIL

Tot Ion:202 Resp: 3378339

Ion Ratio Lower Upper

202 100

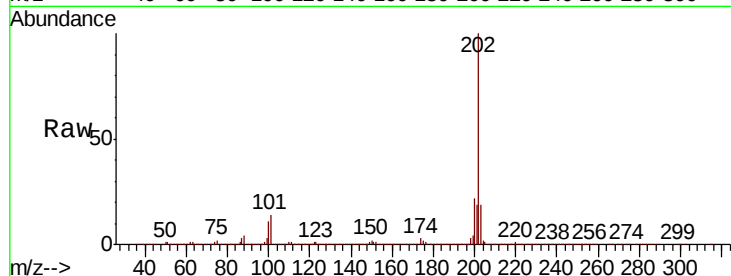
200 21.8 16.9 25.3

203 19.1 14.5 21.7

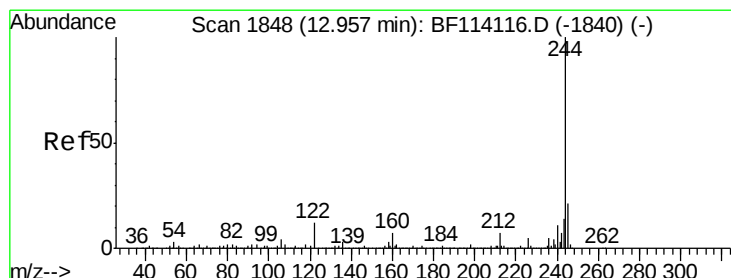
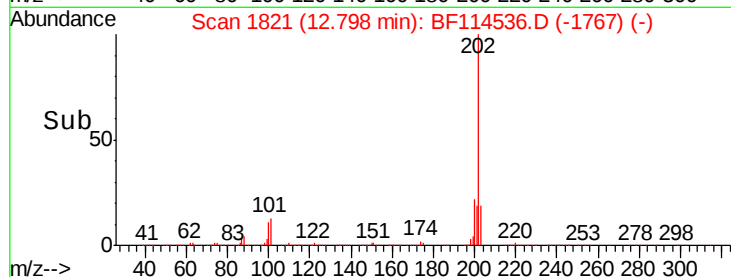
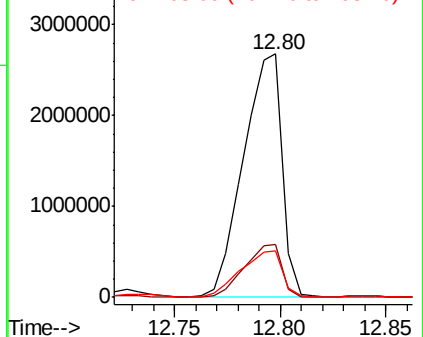
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 21.264 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.00 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

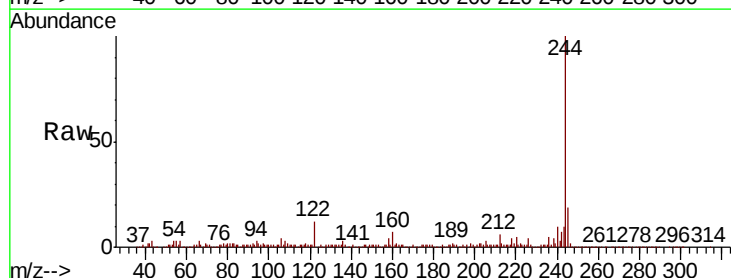
Tgt Ion:244 Resp: 435520

Ion Ratio Lower Upper

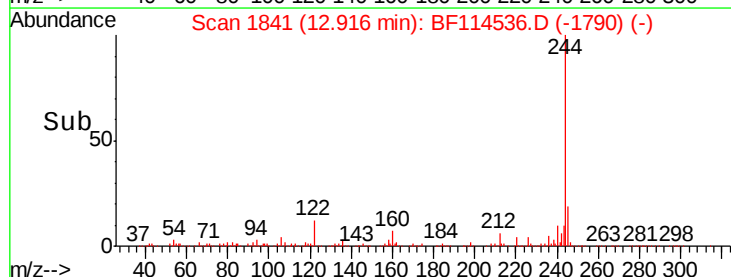
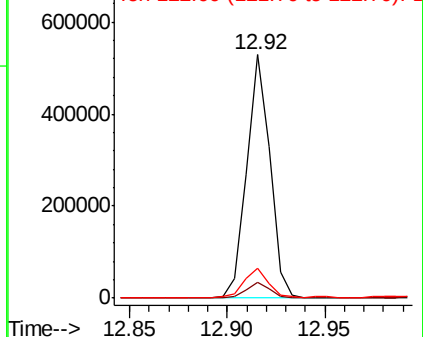
244 100

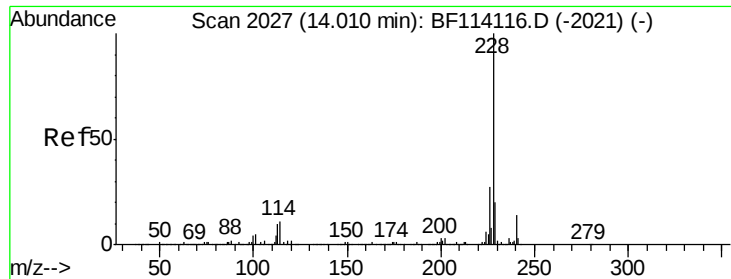
212 6.5 5.8 8.6

122 12.0 9.4 14.2



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





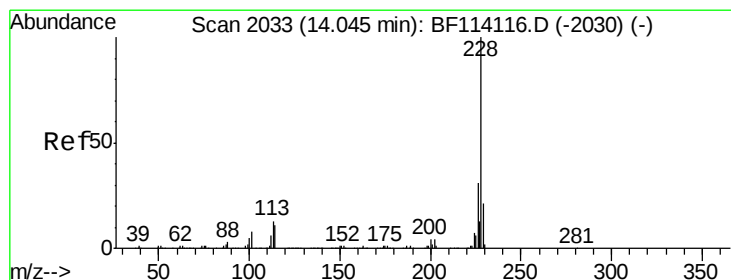
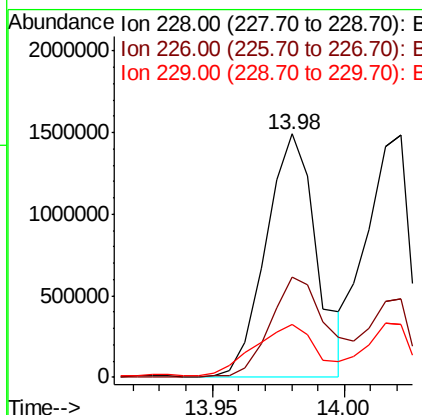
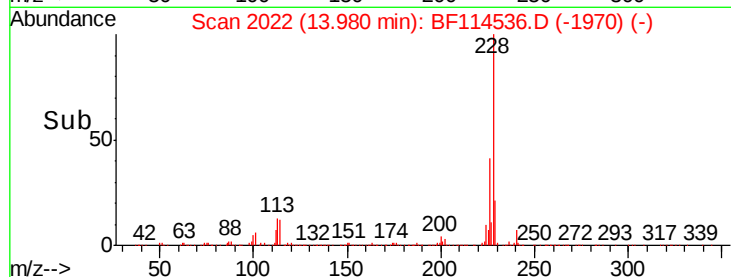
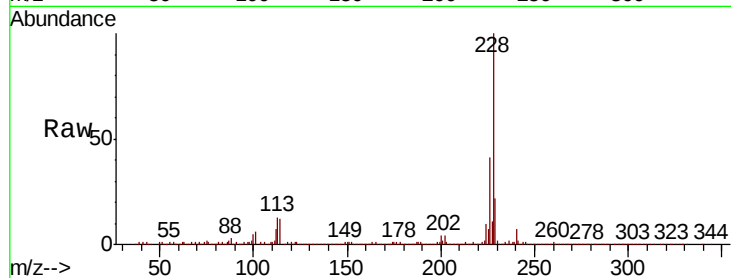
#81
Benzo(a)anthracene
Concen: 73.621 ng m
RT: 13.98 min Scan# 2022
Delta R.T. 0.01 min
Lab File: BF114536.D
Acq: 23 May 2019 21:08

Instrument :
BNA_F
ClientSampleId :
RO-SOIL

Tot Ion:228 Resp: 2010526
Ion Ratio Lower Upper
228 100
226 41.1 22.2 33.2#
229 21.6 16.4 24.6

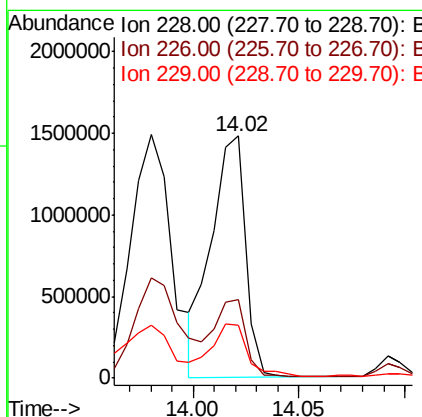
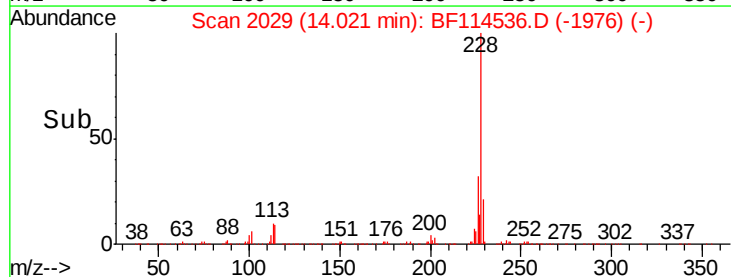
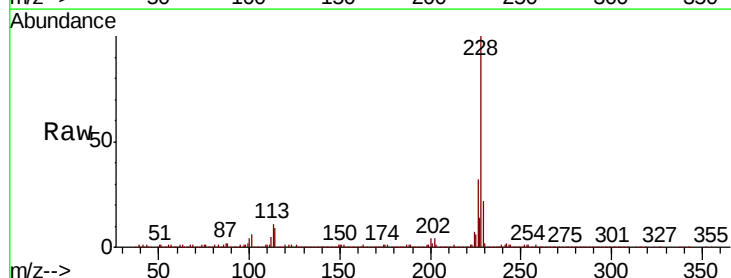
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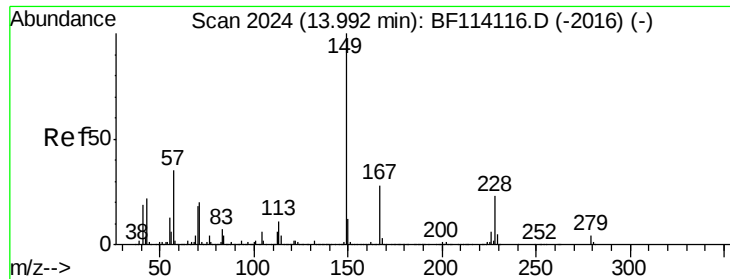
mohammad
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#83
Chrysene
Concen: 62.239 ng
RT: 14.02 min Scan# 2029
Delta R.T. 0.01 min
Lab File: BF114536.D
Acq: 23 May 2019 21:08

Tgt Ion:228 Resp: 1666177
Ion Ratio Lower Upper
228 100
226 32.3 25.0 37.6
229 21.9 17.0 25.6





#84

Bis(2-ethylhexyl)phthalate

Concen: 2.949 ng

RT: 13.95 min Scan# 2017

Delta R.T. 0.01 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Instrument :

BNA_F

ClientSampleId :

RO-SOIL

Tot Ion:149 Resp: 55137

Ion Ratio Lower Upper

149 100

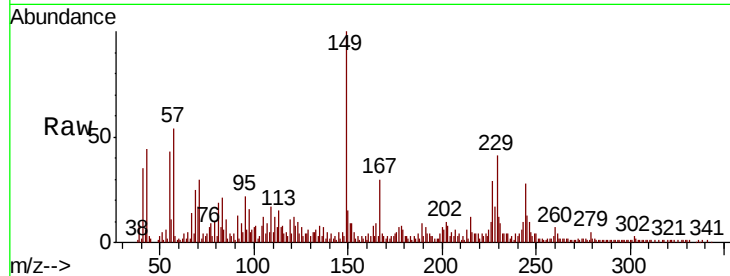
167 29.9 22.6 33.8

279 5.2 3.0 4.6#

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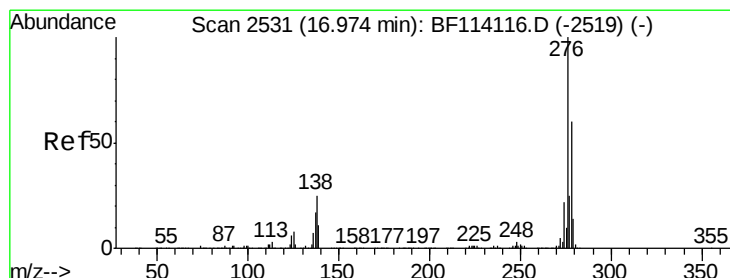
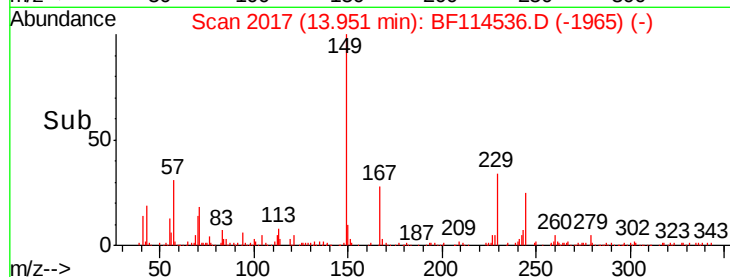
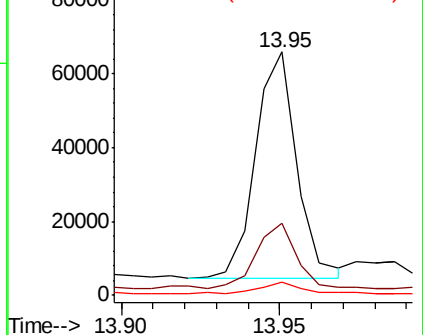
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Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 66.065 ng

RT: 16.95 min Scan# 2527

Delta R.T. 0.02 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Tgt Ion:276 Resp: 1563068

Ion Ratio Lower Upper

276 100

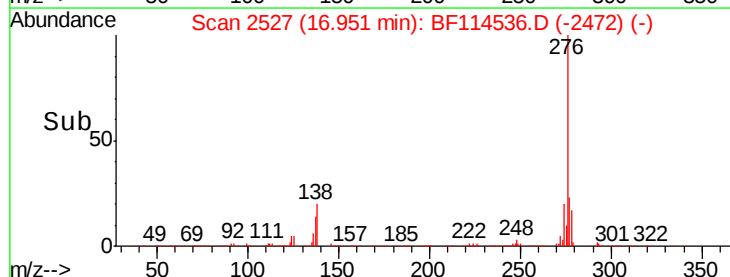
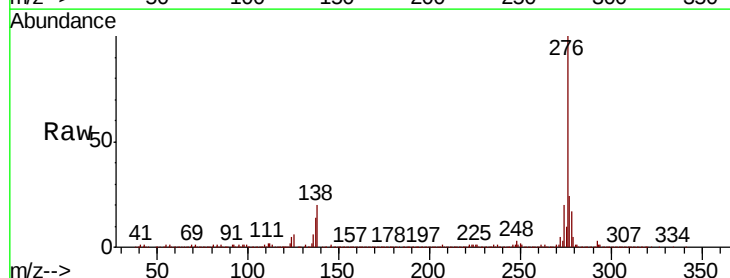
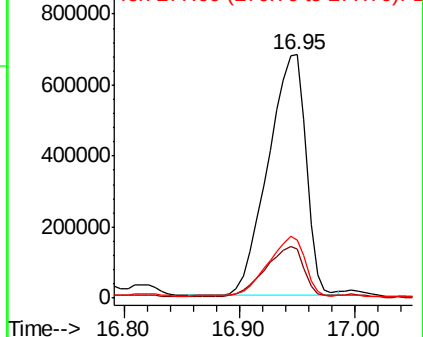
138 20.6 20.2 30.2

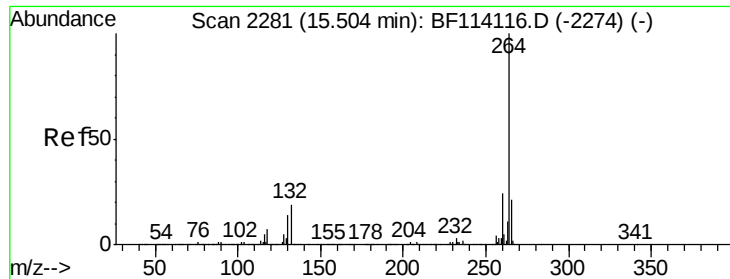
277 24.0 20.0 30.0

Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





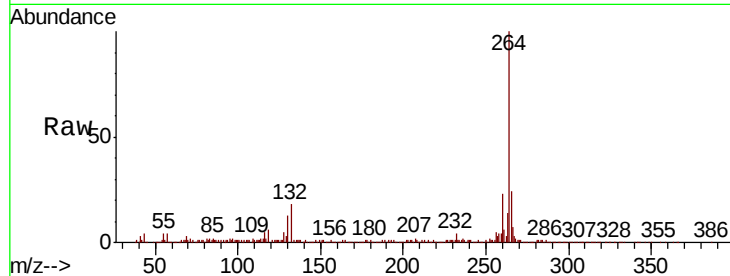
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.46 min Scan# 2274
Delta R.T. 0.01 min
Lab File: BF114536.D
Acq: 23 May 2019 21:08

Instrument :
BNA_F
ClientSampled :
RO-SOIL

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.4	29.0
265	24.0	16.9	25.3

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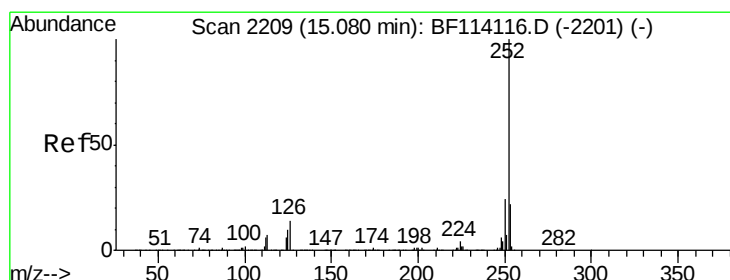
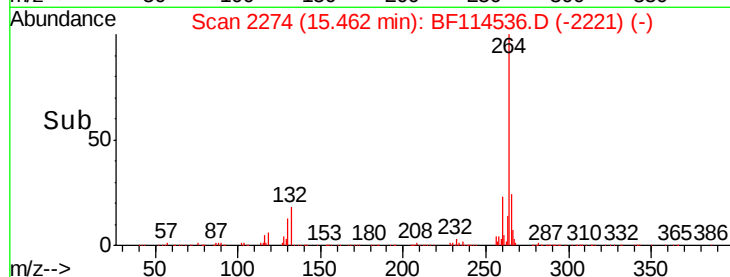
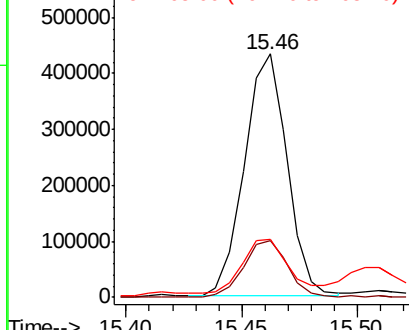


Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88
Benzo(b)fluoranthene
Concen: 80.352 ng m
RT: 15.04 min Scan# 2202
Delta R.T. 0.01 min
Lab File: BF114536.D
Acq: 23 May 2019 21:08

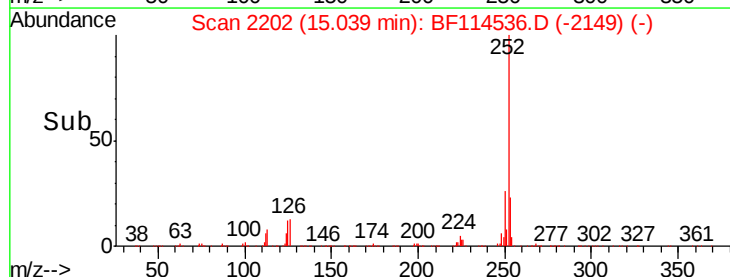
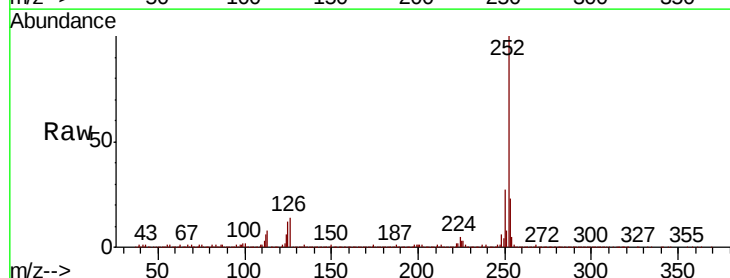
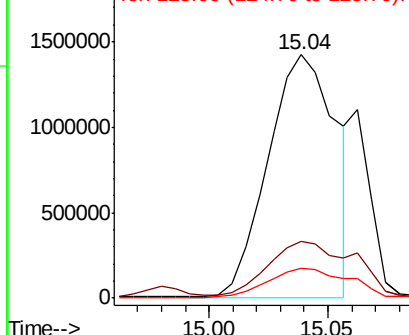
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.8	26.8
125	12.3	8.3	12.5

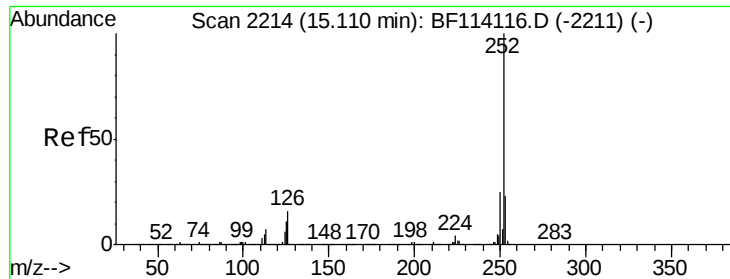
Abundance

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





#89

Benzo(k)fluoranthene

Concen: 19.580 ng

RT: 15.06 min Scan# 2206

Delta R.T. 0.01 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Instrument :

BNA_F

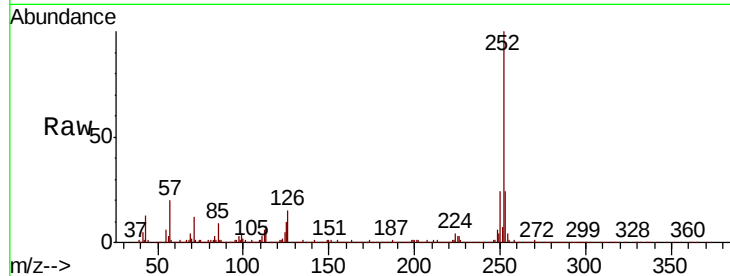
ClientSampleId :

RO-SOIL

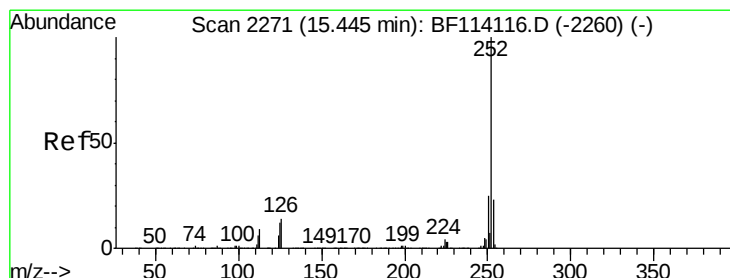
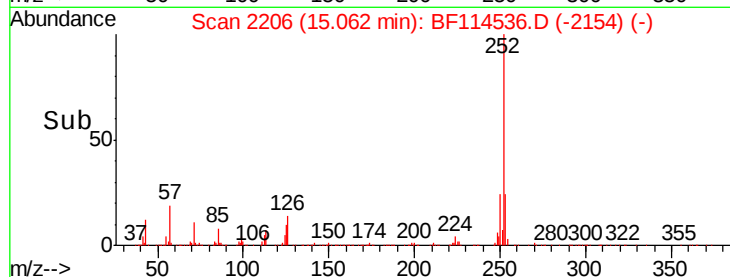
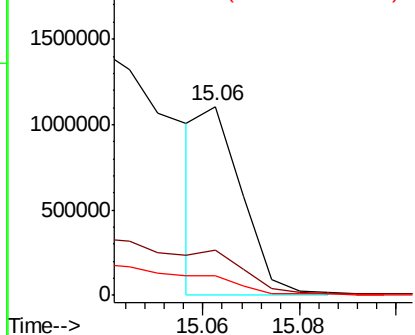
Tot Ion:	252	Resp:	641460
Ion Ratio	Lower	Upper	
252	100		
253	24.1	18.2	27.2
125	10.3	8.6	13.0

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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: 67.194 ng

RT: 15.41 min Scan# 2265

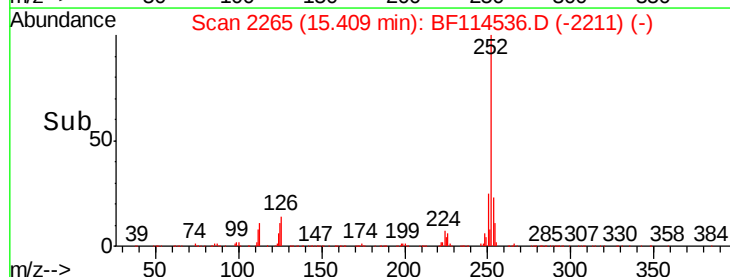
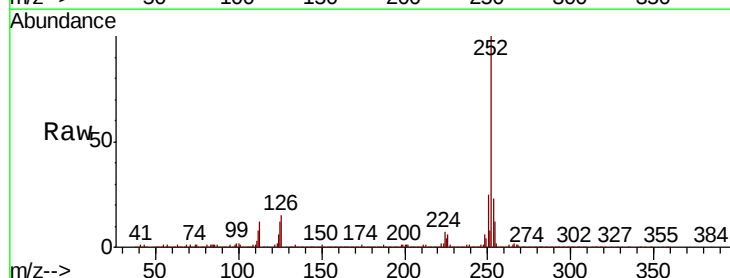
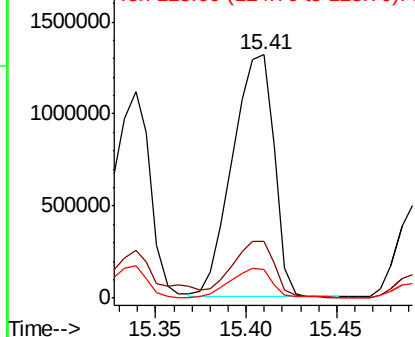
Delta R.T. 0.02 min

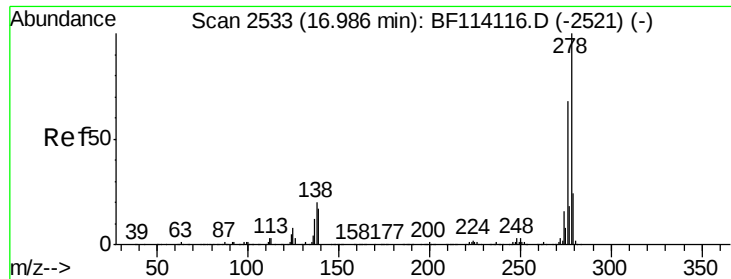
Lab File: BF114536.D

Acq: 23 May 2019 21:08

Tgt Ion:	252	Resp:	2109007
Ion Ratio	Lower	Upper	
252	100		
253	23.3	18.1	27.1
125	11.6	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: 14.169 ng

RT: 16.94 min Scan# 2525

Delta R.T. 0.01 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Instrument :

BNA_F

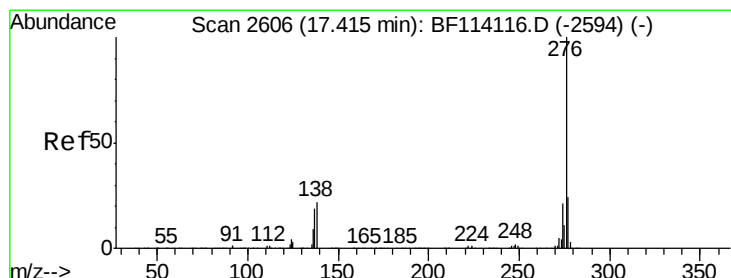
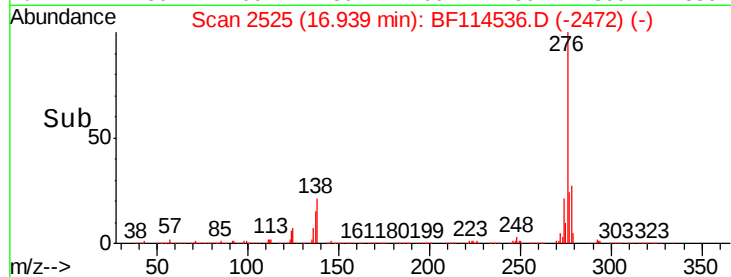
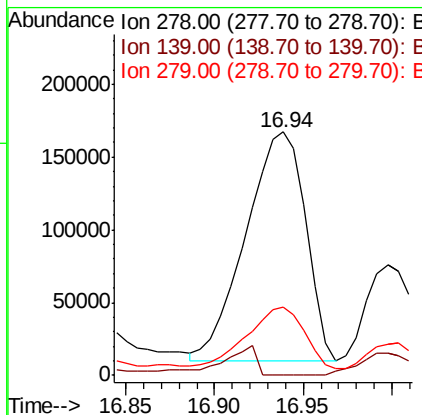
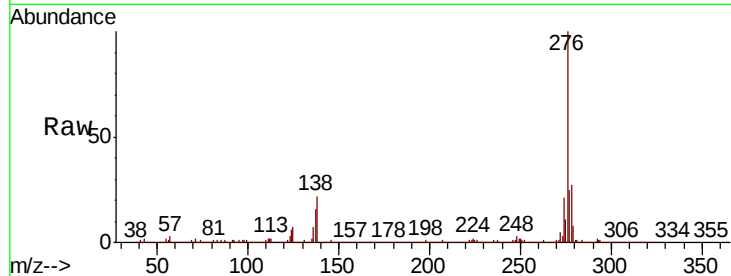
ClientSampled :

RO-SOIL

Tot Ion:	278	Resp:	369543
Ion Ratio	Lower	Upper	
278	100		
139	0.0	13.5	20.3#
279	28.0	19.0	28.6

Manual Integrations
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#92

Benzo(g,h,i)perylene

Concen: 62.780 ng

RT: 17.40 min Scan# 2603

Delta R.T. 0.03 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Tgt Ion:	276	Resp:	1640881
Ion Ratio	Lower	Upper	
276	100		
277	24.0	19.0	28.4
138	21.9	17.8	26.6

