

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121217\
 Data File : BF101354.D
 Acq On : 13 Dec 2017 3:17
 Operator : SJ/JU
 Sample : I6813-01DL 2X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 Soil-CuttingsDL

Manual Integrations
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Quant Time: Dec 13 13:13:41 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 08 18:17:31 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	45850	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	173467	20.00	ng	0.00
38) Acenaphthene-d10	9.86	164	71242	20.00	ng	0.00
63) Phenanthrene-d10	11.36	188	120094	20.00	ng	0.00
75) Chrysene-d12	14.01	240	101334	20.00	ng	0.00
86) Perylene-d12	15.49	264	86591	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	145488	52.43	ng	0.00
7) Phenol-d6	6.46	99	174938	51.93	ng	0.00
23) Nitrobenzene-d5	7.39	82	101060	34.75	ng	-0.01
41) 2,4,6-Tribromophenol	10.66	330	35462	41.44	ng	0.00
44) 2-Fluorobiphenyl	9.17	172	201836	38.76	ng	-0.01
78) Terphenyl-d14	12.94	244	147433	31.82	ng	0.00
Target Compounds						
48) Acenaphthylene	9.72	152	83556	10.968	ng	99
49) Dimethylphthalate	9.57	163	13147	2.288	ng	98
70) Phenanthrene	11.38	178	109777	16.599	ng	95
71) Anthracene	11.43	178	43225	6.458	ng	98
74) Fluoranthene	12.57	202	138119	18.840	ng	93
77) Pyrene	12.80	202	289642	41.423	ng	100
79) Butylbenzylphthalate	13.41	149	24773	8.036	ng	86
80) Benzo(a)anthracene	14.00	228	105796m	16.536	ng	
82) Chrysene	14.03	228	104687m	17.618	ng	
85) Indeno(1,2,3-cd)pyrene	16.97	276	47677	9.025	ng	# 88
87) Benzo(b)fluoranthene	15.06	252	110825m	21.368	ng	
88) Benzo(k)fluoranthene	15.08	252	21130m	4.135	ng	
89) Benzo(a)pyrene	15.42	252	95182	20.186	ng	98
90) Dibenzo(a,h)anthracene	16.97	278	14130m	3.399	ng	
91) Benzo(a,h,i)perylene	17.42	276	64894m	16.565	ng	

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

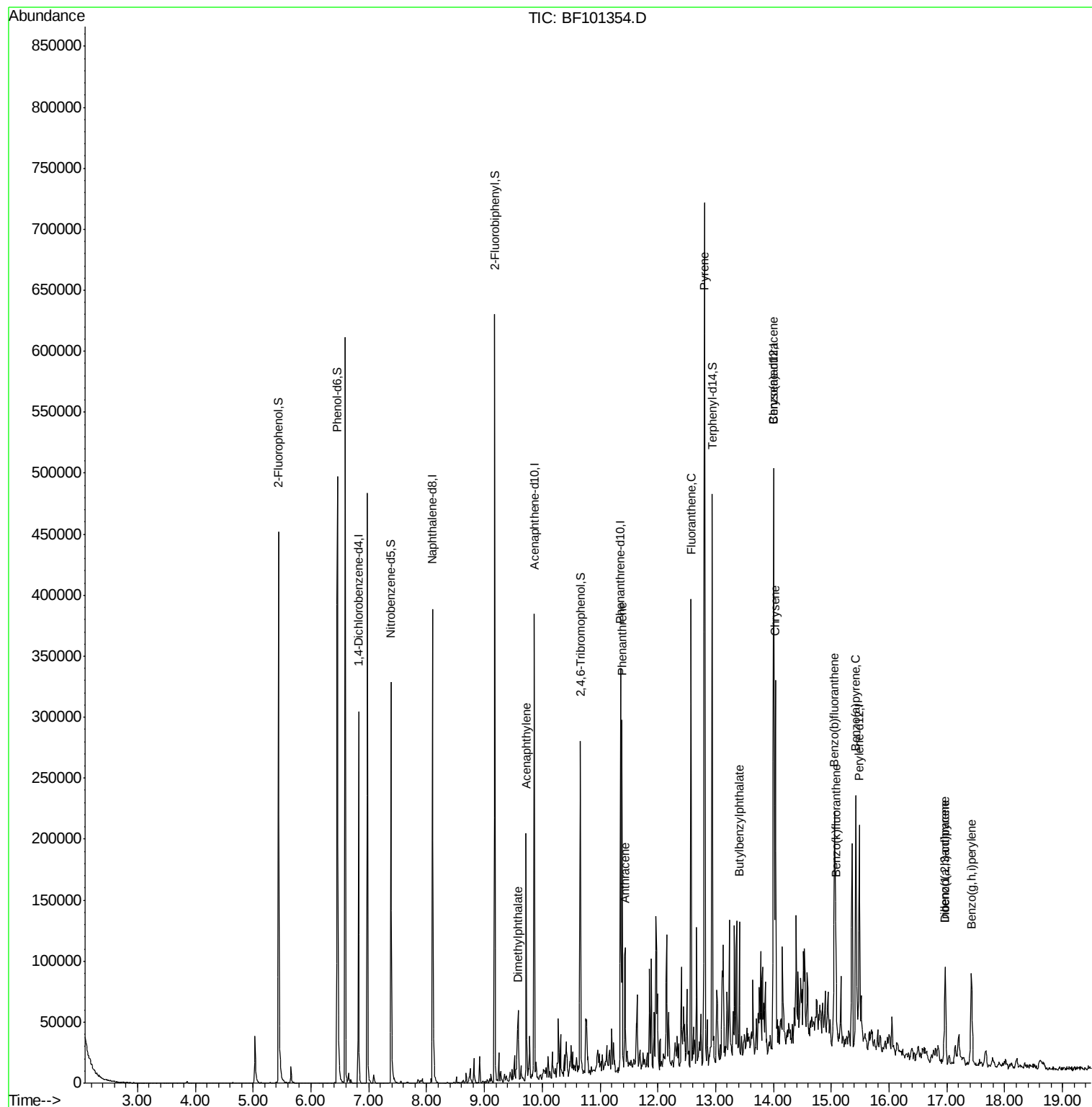
Data Path : Z:\HPCHEM1\BNA F\DATA\BF121217\
Data File : BF101354.D
Acq On : 13 Dec 2017 3:17
Operator : SJ/JU
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ALS Vial : 27 Sample Multiplier: 1

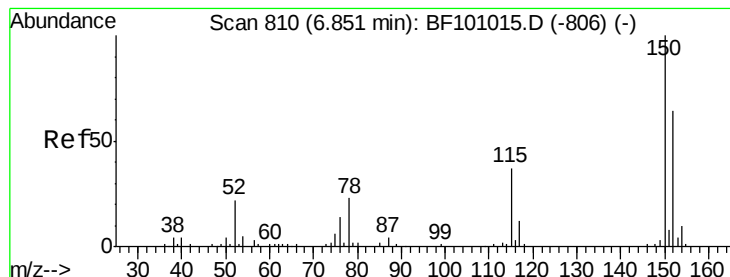
Instrument :
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#1

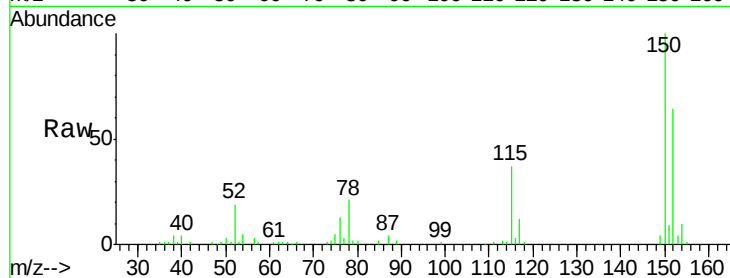
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 805
Delta R.T. 0.00 min
Lab File: BF101354.D
Acq: 13 Dec 2017 3:17

Instrument :
BNA_F
ClientSampleId :
Soil-CuttingsDL

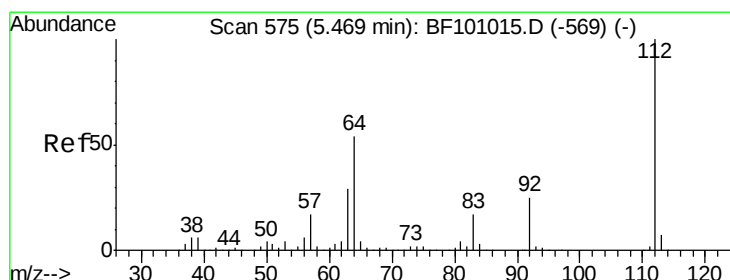
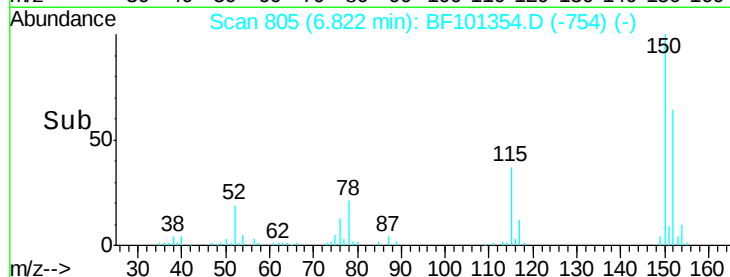
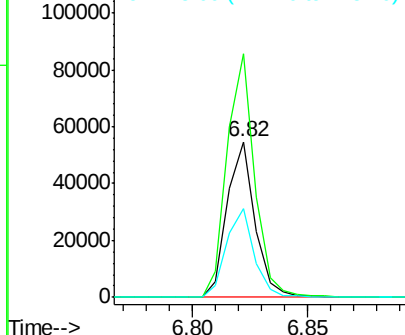
Tot Ion	Ratio	Lower	Upper
152	100		
150	156.5	124.6	186.8
115	57.4	50.1	75.1

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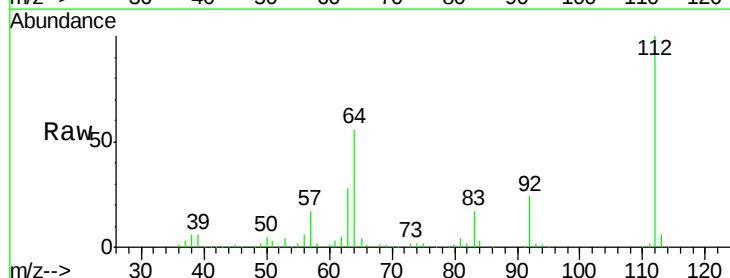
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



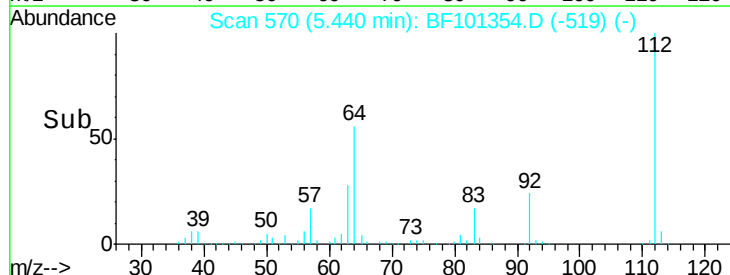
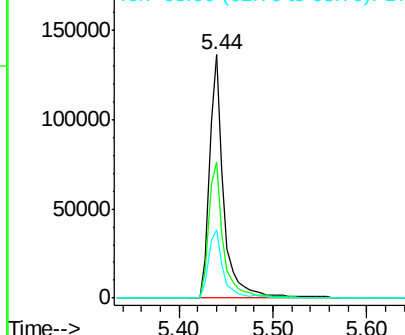
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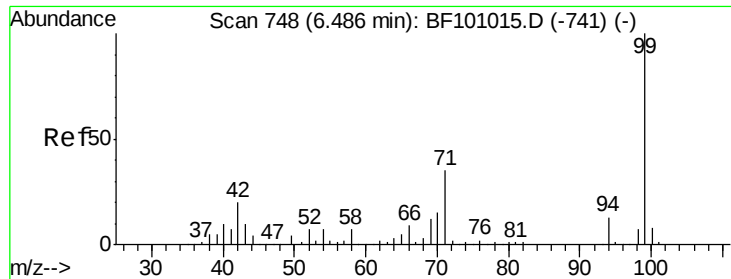
2-Fluorophenol
Concen: 52.434 ng
RT: 5.44 min Scan# 570
Delta R.T. 0.00 min
Lab File: BF101354.D
Acq: 13 Dec 2017 3:17

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.1	47.9	71.9
63	28.0	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: 51.930 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.01 min

Lab File: BF101354.D

Acq: 13 Dec 2017 3:17

Instrument :

BNA_F

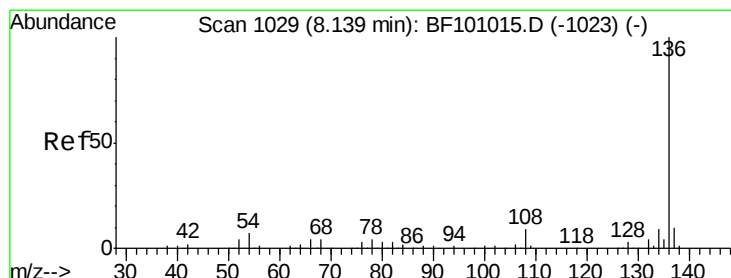
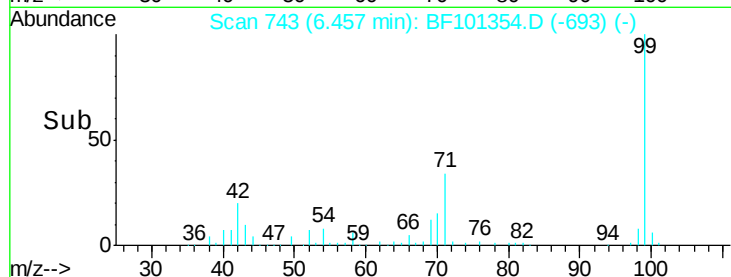
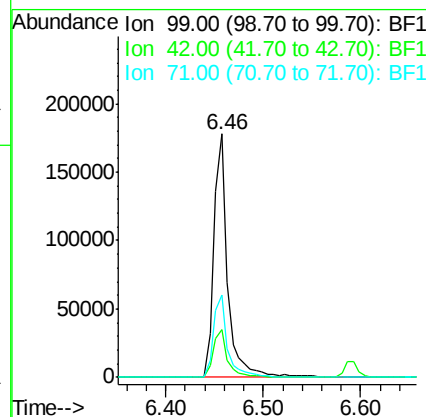
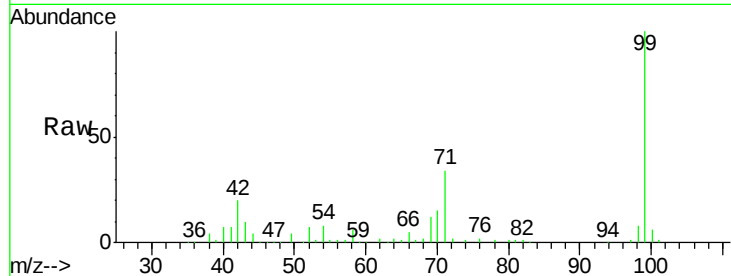
ClientSampleId :

Soil-CuttingsDL

Tot Ion:	99	Resp:	174938
Ion Ratio	Lower	Upper	
99	100		
42	19.7	14.5	21.7
71	33.6	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

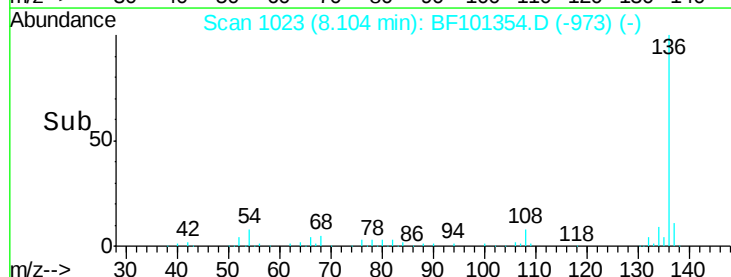
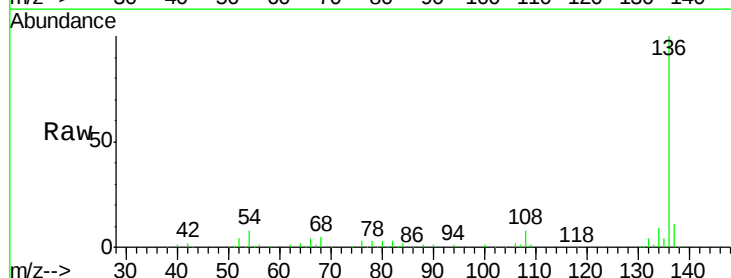
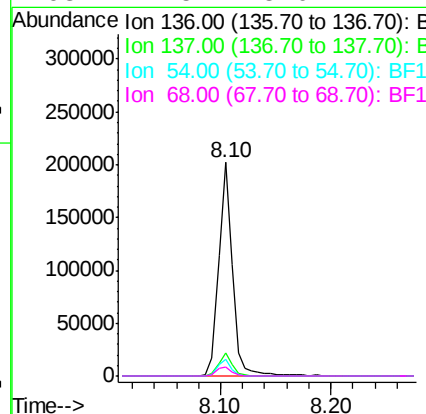
RT: 8.10 min Scan# 1023

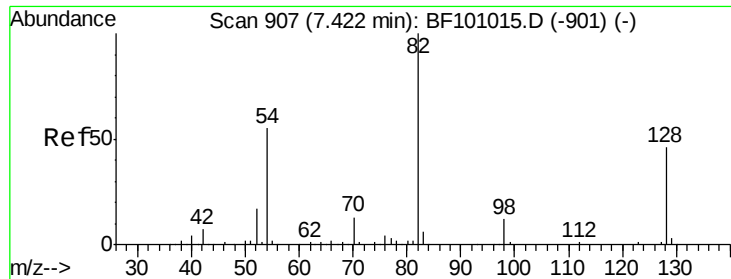
Delta R.T. -0.01 min

Lab File: BF101354.D

Acq: 13 Dec 2017 3:17

Tgt Ion:	136	Resp:	173467
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.9	13.3
54	7.5	6.6	9.8
68	4.5	5.0	7.4#





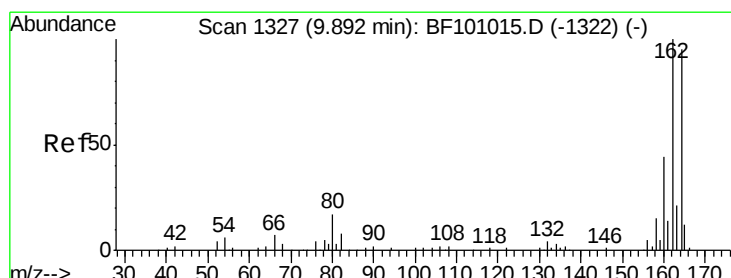
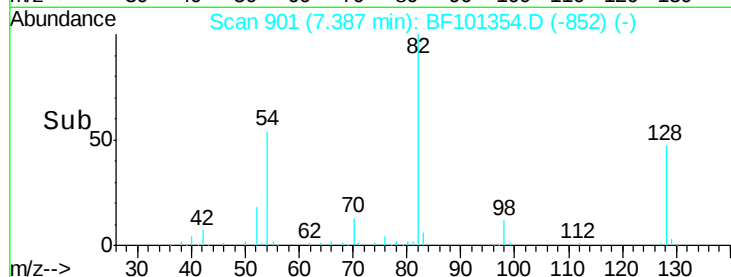
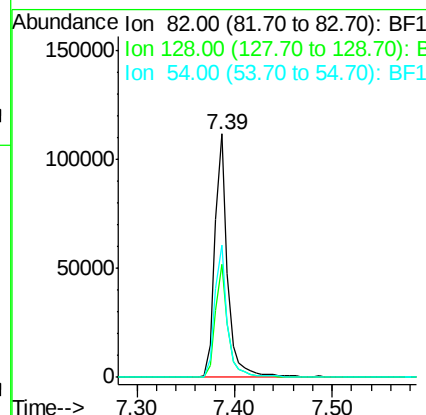
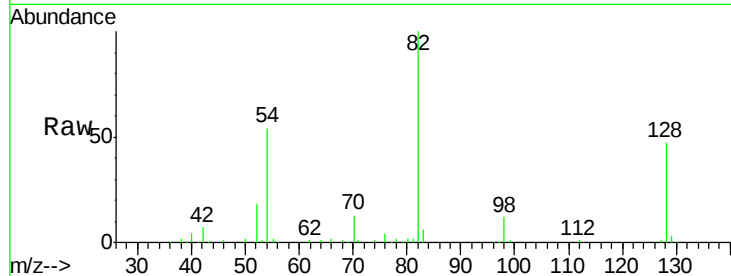
#23
Nitrobenzene-d5
Concen: 34.753 ng
RT: 7.39 min Scan# 901
Delta R.T. -0.01 min
Lab File: BF101354.D
Acq: 13 Dec 2017 3:17

Instrument :
BNA_F
ClientSampled :
Soil-CuttingsDL

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.5	36.1	54.1
54	54.3	41.4	62.2

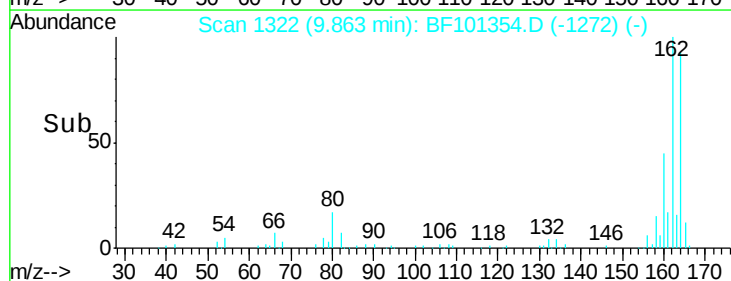
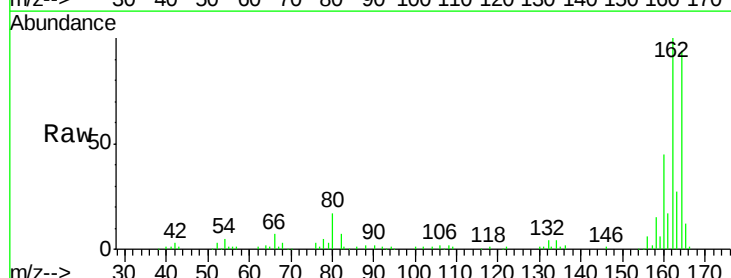
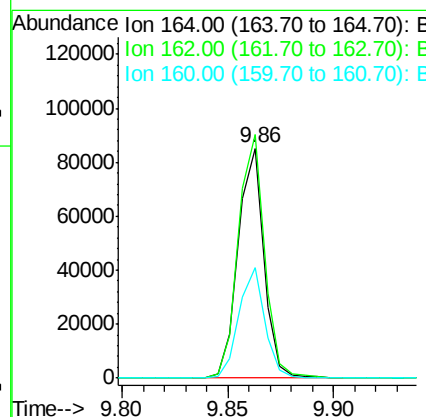
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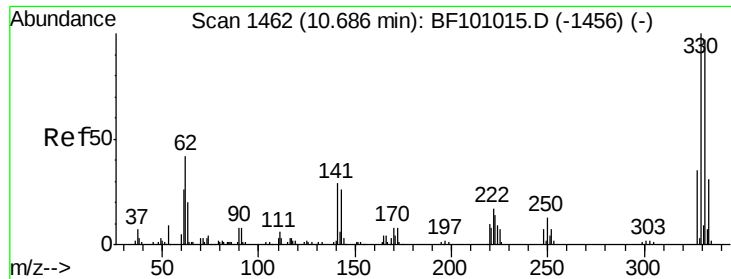
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.86 min Scan# 1322
Delta R.T. -0.01 min
Lab File: BF101354.D
Acq: 13 Dec 2017 3:17

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.9	86.1	129.1
160	47.8	38.3	57.5





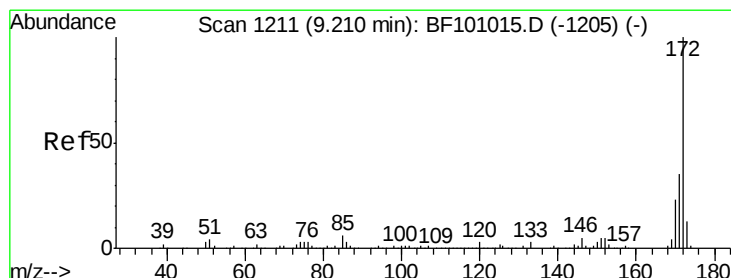
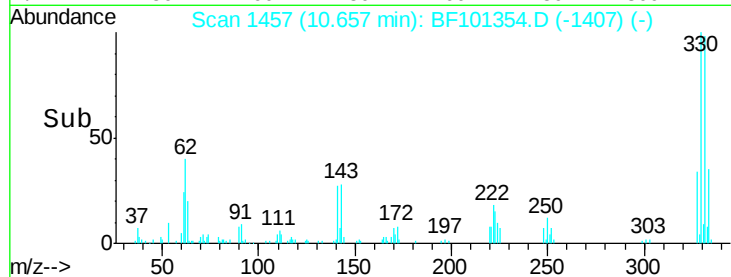
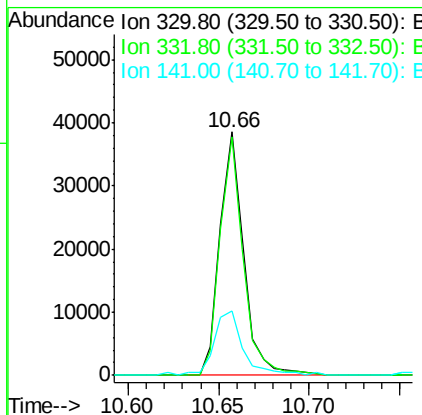
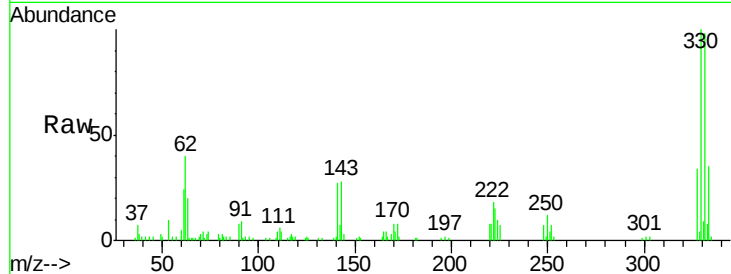
#41
 2,4,6-Tribromophenol
 Concen: 41.436 ng
 RT: 10.66 min Scan# 1457
 Delta R.T. -0.01 min
 Lab File: BF101354.D
 Acq: 13 Dec 2017 3:17

Instrument :
 BNA_F
 ClientSampleID :
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Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	95.6	77.0	115.6	
141	31.7	29.9	44.9	

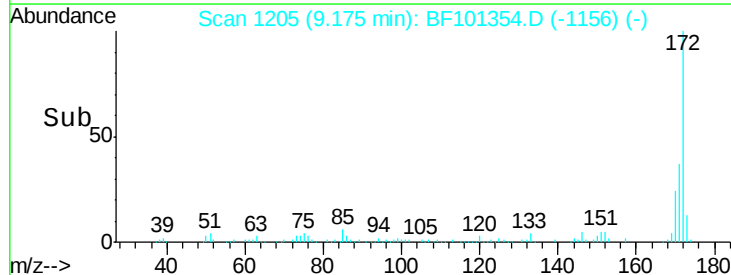
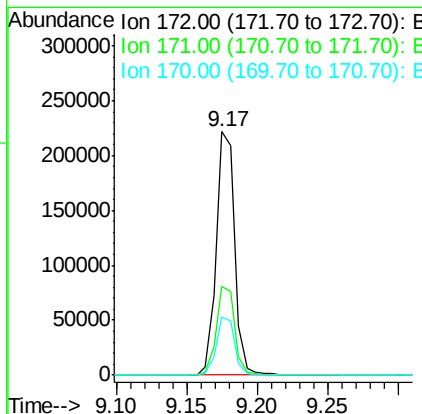
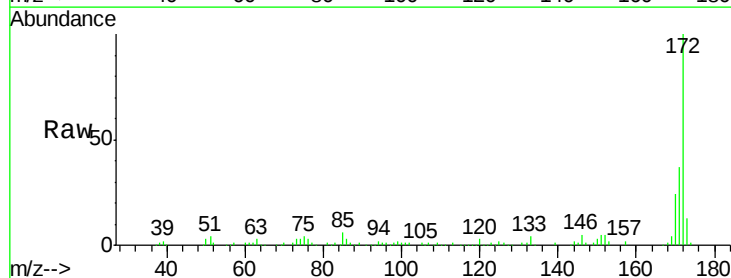
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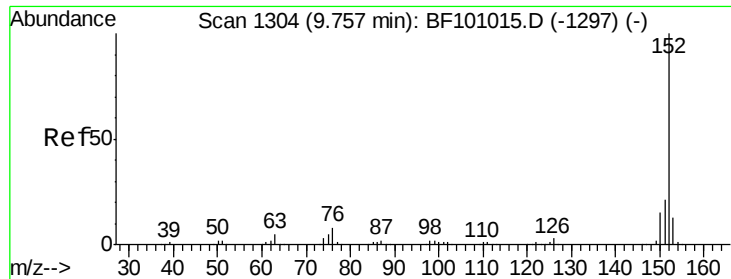
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#44
 2-Fluorobiphenyl
 Concen: 38.763 ng
 RT: 9.17 min Scan# 1205
 Delta R.T. -0.01 min
 Lab File: BF101354.D
 Acq: 13 Dec 2017 3:17

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	36.6	29.7	44.5	
170	23.8	19.6	29.4	





#48

Acenaphthylene

Concen: 10.968 ng

RT: 9.72 min Scan# 1298

Delta R.T. -0.01 min

Lab File: BF101354.D

Acq: 13 Dec 2017 3:17

Instrument :

BNA_F

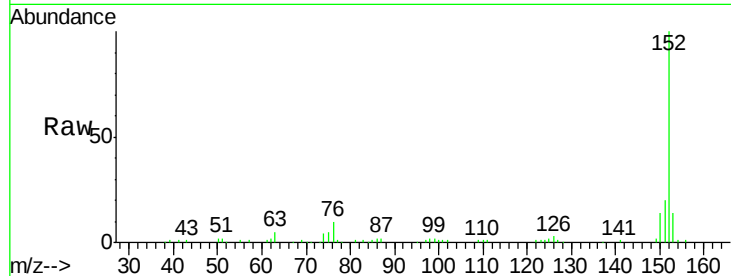
ClientSampleId :

Soil-CuttingsDL

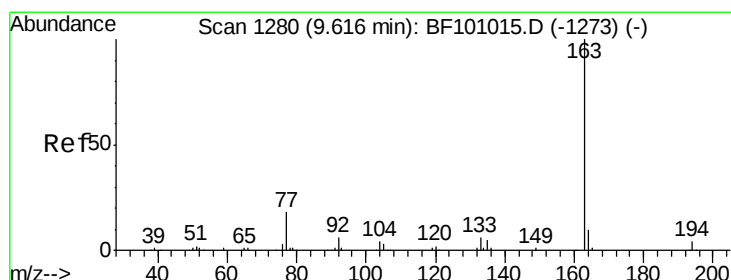
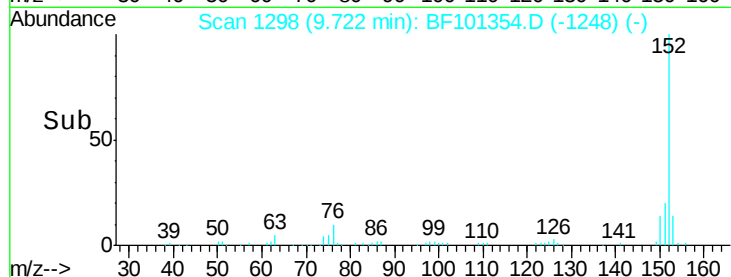
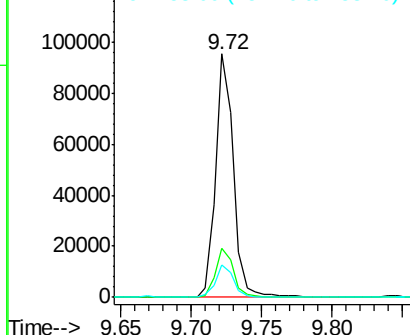
Tot Ion:	152	Resp:	83556
Ion Ratio	Lower	Upper	
152	100		
151	20.0	16.3	24.5
153	13.5	10.7	16.1

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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



#49

Dimethylphthalate

Concen: 2.288 ng

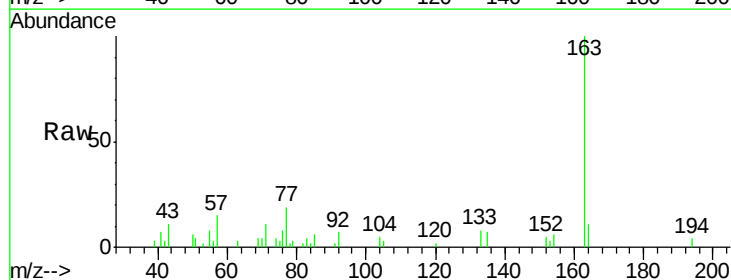
RT: 9.57 min Scan# 1273

Delta R.T. -0.01 min

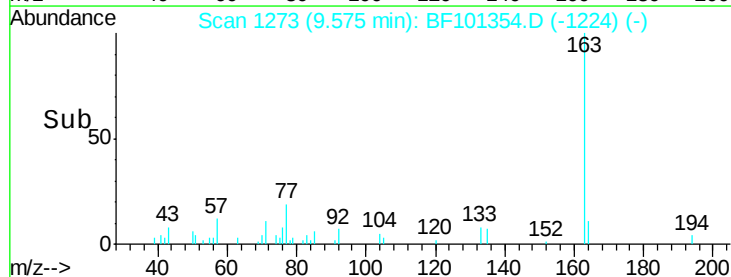
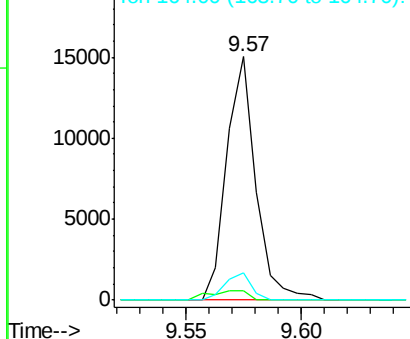
Lab File: BF101354.D

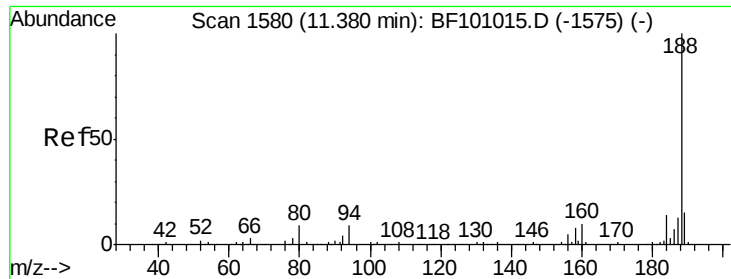
Acq: 13 Dec 2017 3:17

Tgt Ion:	163	Resp:	13147
Ion Ratio	Lower	Upper	
163	100		
194	3.7	2.7	4.1
164	11.2	8.2	12.2



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





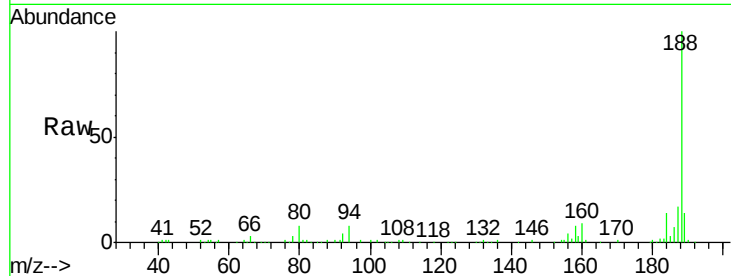
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.36 min Scan# 1576
Delta R.T. 0.00 min
Lab File: BF101354.D
Acq: 13 Dec 2017 3:17

Instrument :
BNA_F
ClientSampleId :
Soil-CuttingsDL

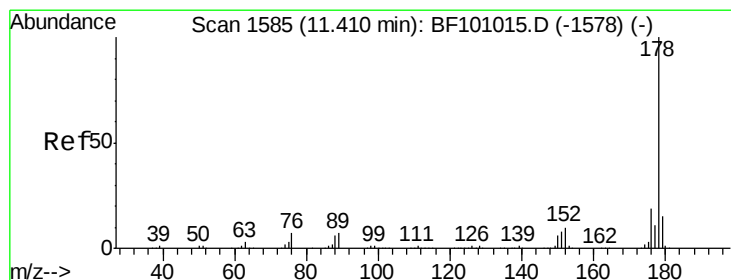
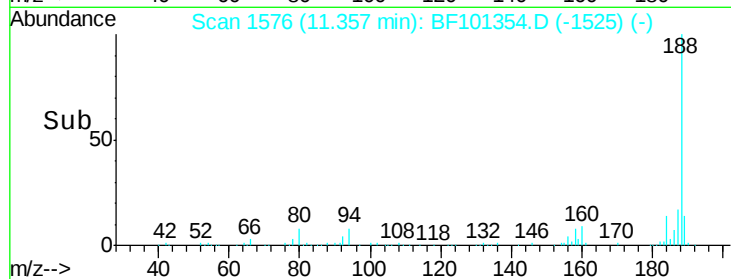
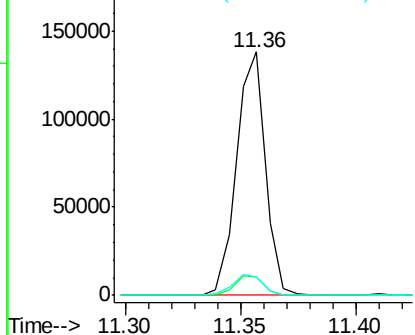
Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	7.6	8.5	12.7#
80	7.8	9.2	13.8#

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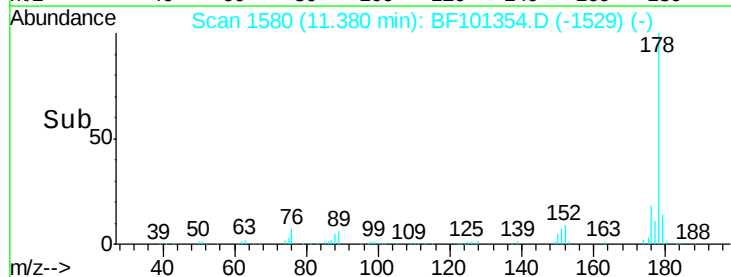
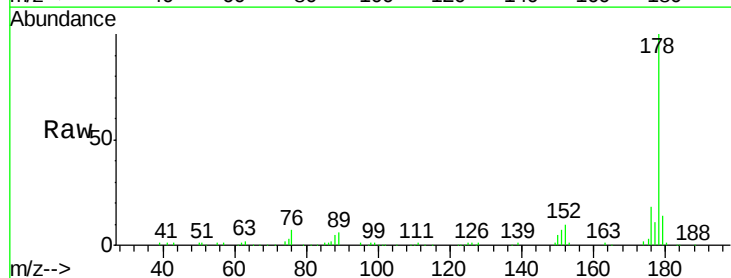
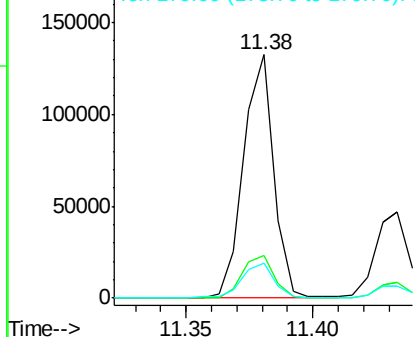
Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

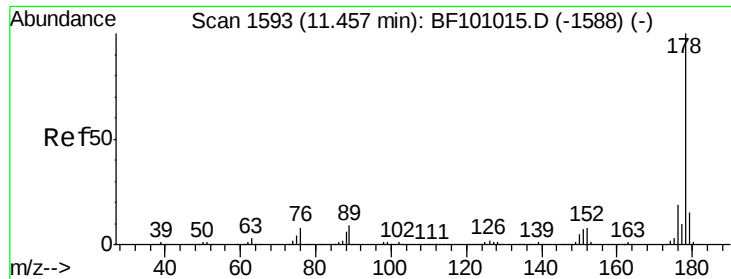


#70
Phenanthrene
Concen: 16.599 ng
RT: 11.38 min Scan# 1580
Delta R.T. 0.00 min
Lab File: BF101354.D
Acq: 13 Dec 2017 3:17

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	17.5	15.8	23.8
179	14.1	13.0	19.6

Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





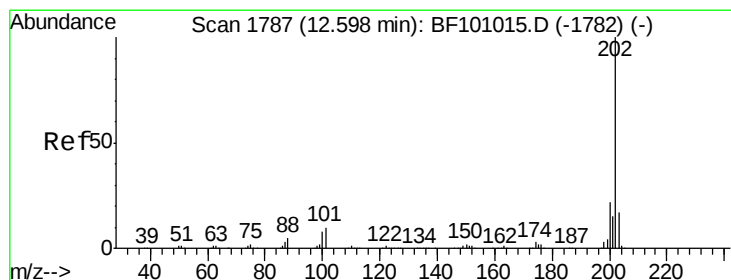
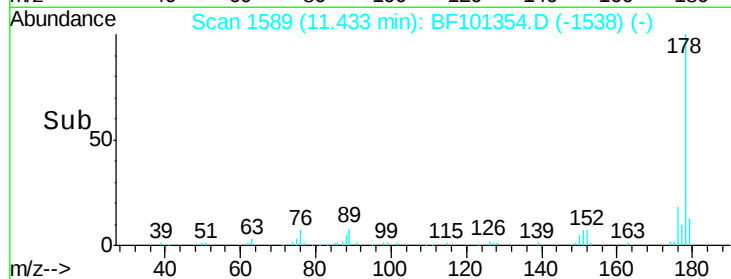
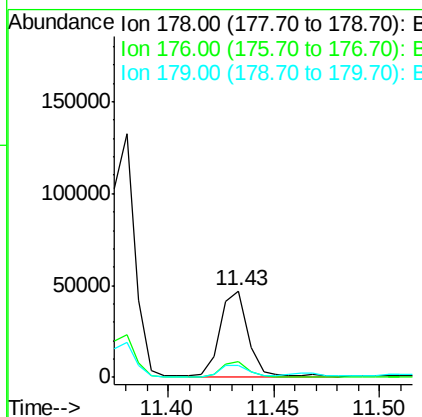
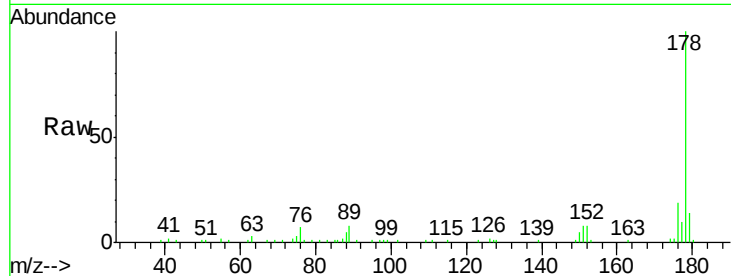
#71
 Anthracene
 Concen: 6.458 ng
 RT: 11.43 min Scan# 1589
 Delta R.T. 0.00 min
 Lab File: BF101354.D
 Acq: 13 Dec 2017 3:17

Instrument :
 BNA_F
 ClientSampleId :
 Soil-CuttingsDL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	14.1	12.6	19.0

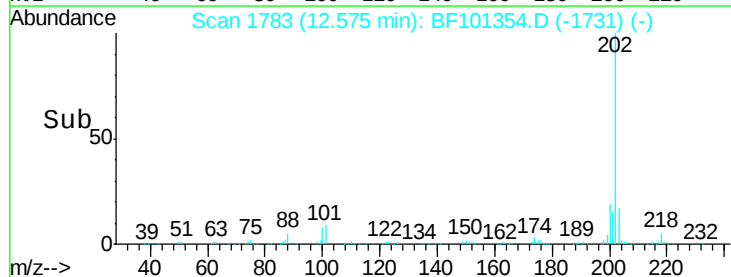
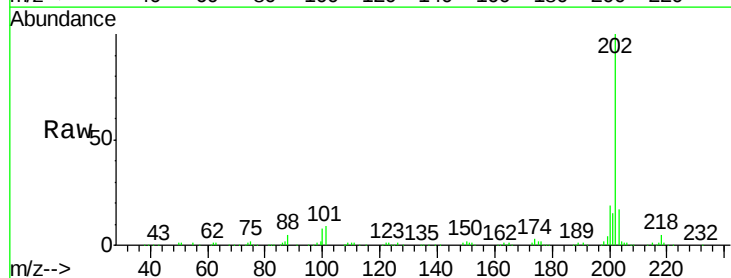
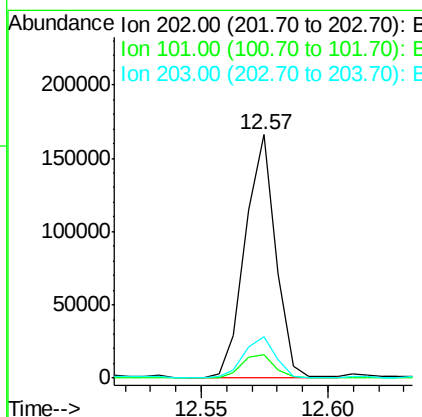
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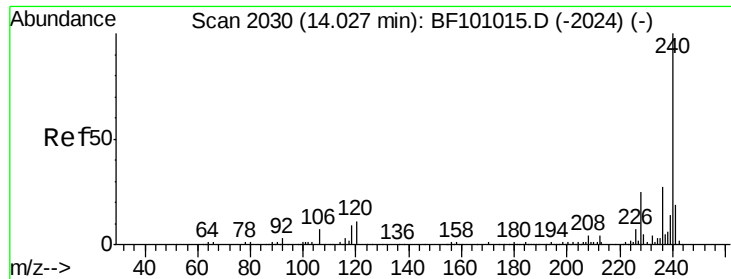
Sohil
 12/13/2017 12:08:31 PM



#74
 Fluoranthene
 Concen: 18.840 ng
 RT: 12.57 min Scan# 1783
 Delta R.T. 0.01 min
 Lab File: BF101354.D
 Acq: 13 Dec 2017 3:17

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.4	0.0	34.1
203	16.8	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.01 min Scan# 2027

Delta R.T. 0.01 min

Lab File: BF101354.D

Acq: 13 Dec 2017 3:17

Instrument :

BNA_F

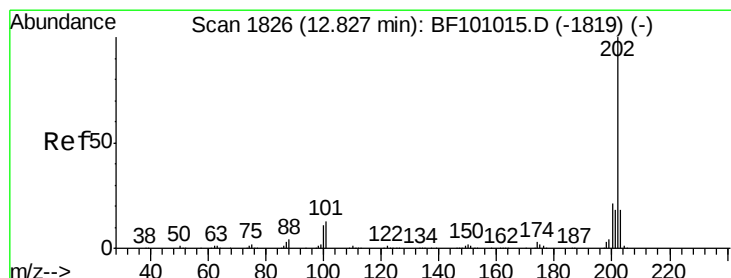
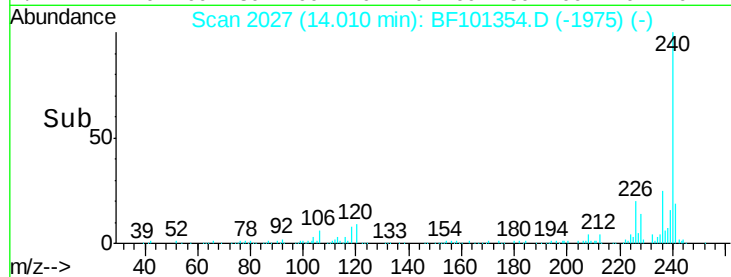
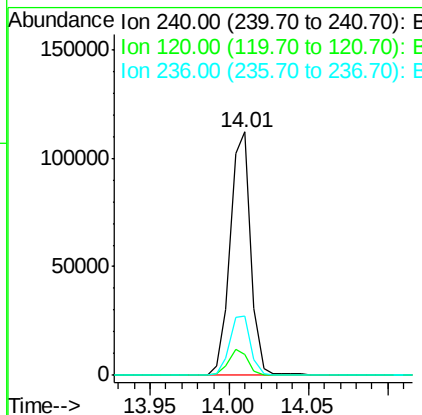
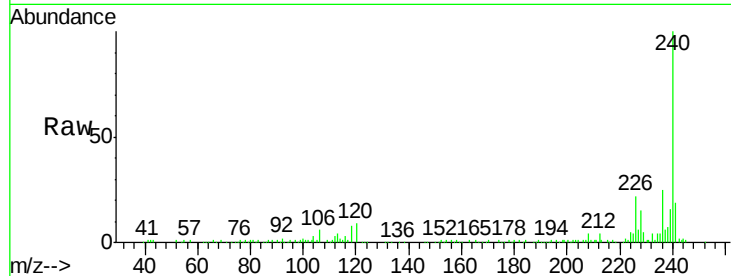
ClientSampleId :

Soil-CuttingsDL

Tot Ion	Ratio	Lower	Upper
240	100		
120	8.6	9.5	14.3#
236	24.6	20.7	31.1

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12/13/2017 12:08:31 PM



#77

Pyrene

Concen: 41.423 ng

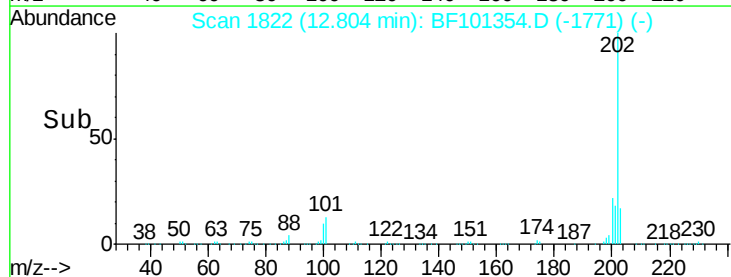
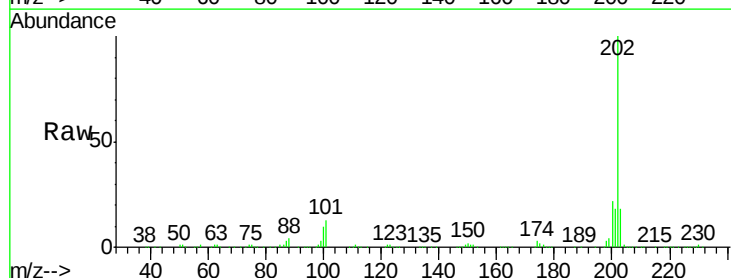
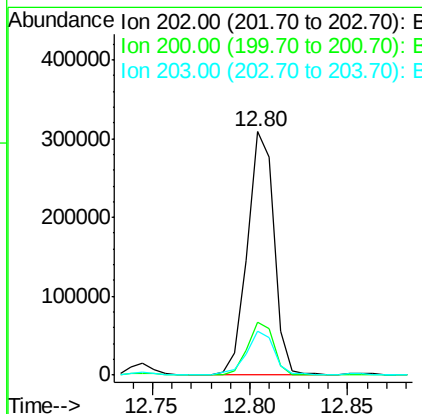
RT: 12.80 min Scan# 1822

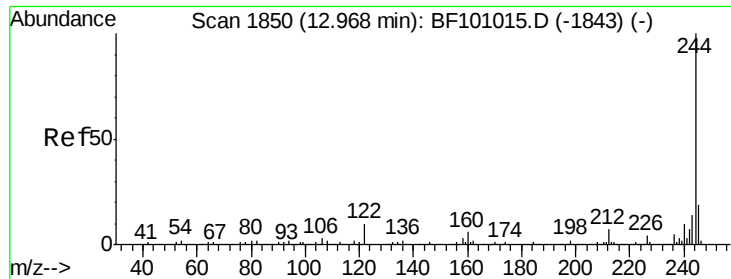
Delta R.T. 0.00 min

Lab File: BF101354.D

Acq: 13 Dec 2017 3:17

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.4	26.2
203	17.8	14.3	21.5





#78

Terphenyl-d14

Concen: 31.823 ng

RT: 12.94 min Scan# 1845

Delta R.T. 0.00 min

Lab File: BF101354.D

Acq: 13 Dec 2017 3:17

Instrument :

BNA_F

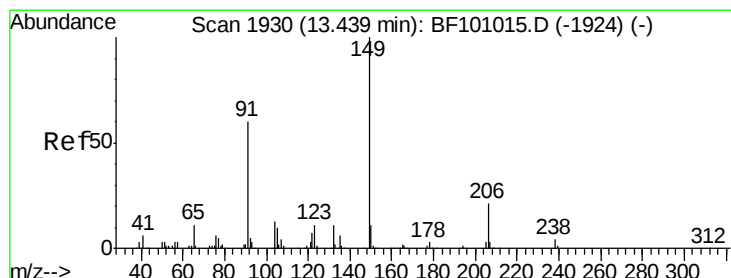
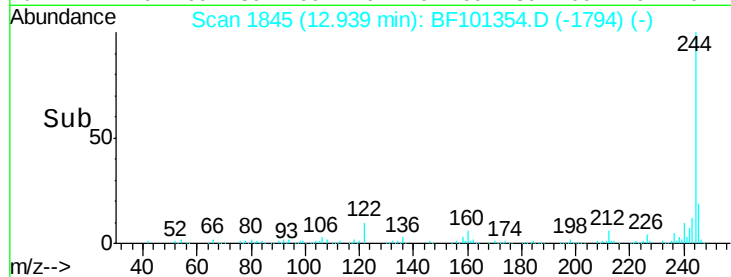
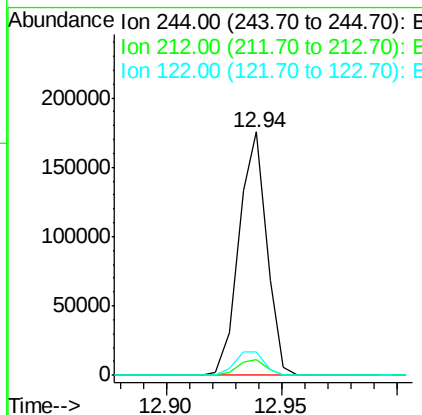
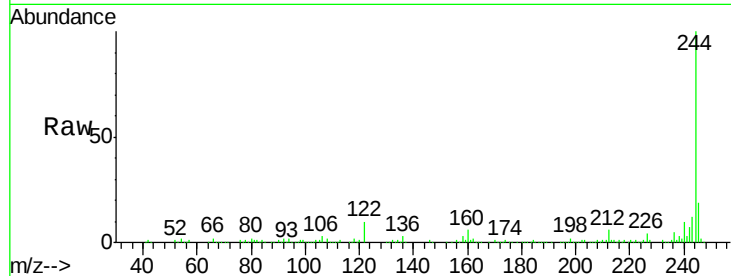
ClientSampleId :

Soil-CuttingsDL

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.4	8.0
122	9.7	11.0	16.4

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#79

Butylbenzylphthalate

Concen: 8.036 ng

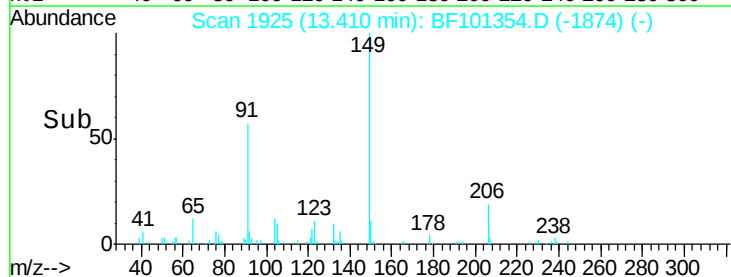
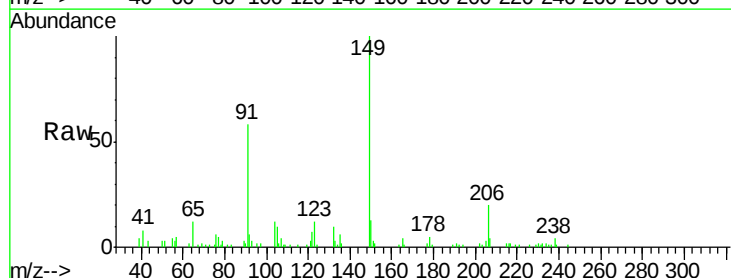
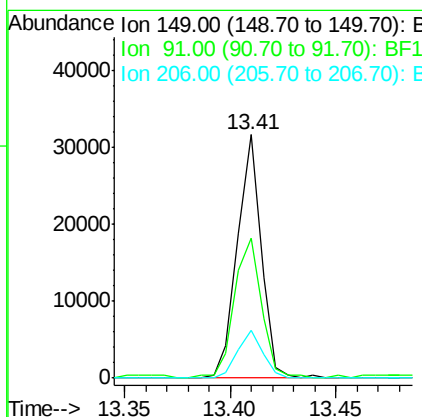
RT: 13.41 min Scan# 1925

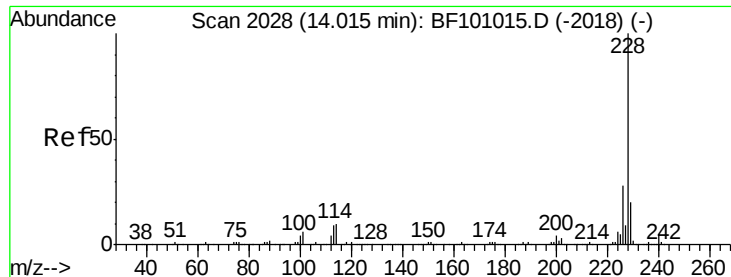
Delta R.T. 0.00 min

Lab File: BF101354.D

Acq: 13 Dec 2017 3:17

Tgt Ion	Ratio	Lower	Upper
149	100		
91	57.7	56.8	85.2
206	19.8	14.1	21.1





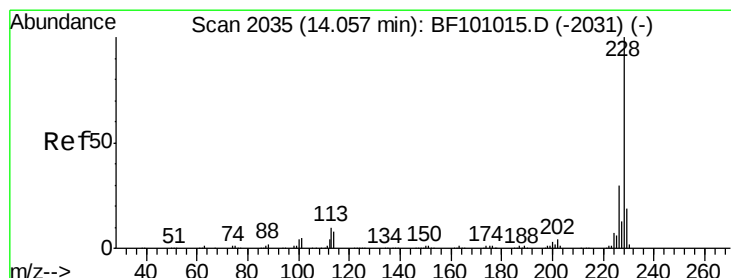
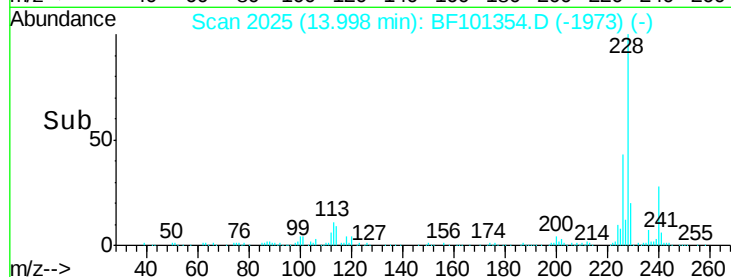
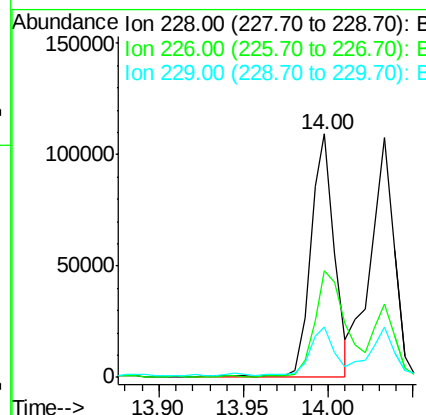
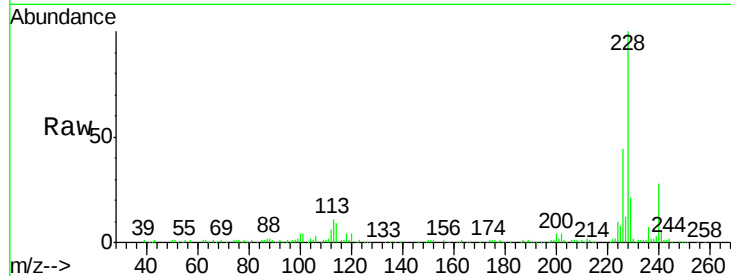
#80
Benzo(a)anthracene
Concen: 16.536 ng m
RT: 14.00 min Scan# 2025
Delta R.T. 0.01 min
Lab File: BF101354.D
Acq: 13 Dec 2017 3:17

Instrument :
BNA_F
ClientSampled :
Soil-CuttingsDL

Tot Ion	Ratio	Lower	Upper
228	100		
226	43.7	22.6	33.8#
229	20.8	15.8	23.6

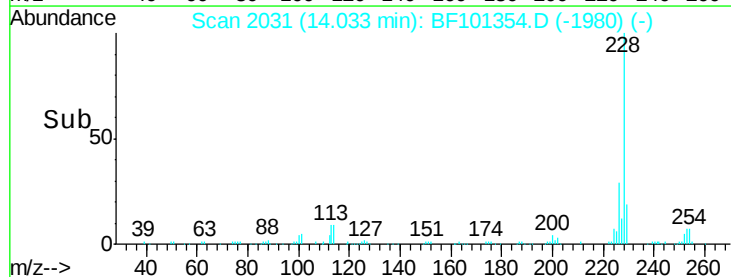
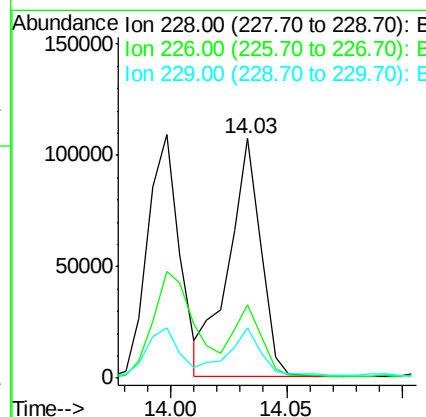
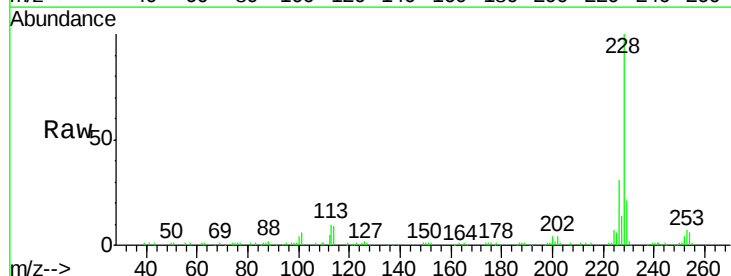
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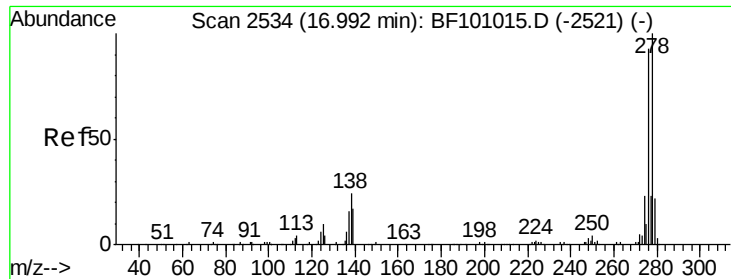
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12/13/2017 12:08:31 PM



#82
Chrysene
Concen: 17.618 ng m
RT: 14.03 min Scan# 2031
Delta R.T. 0.00 min
Lab File: BF101354.D
Acq: 13 Dec 2017 3:17

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.0	37.6
229	20.9	16.2	24.4





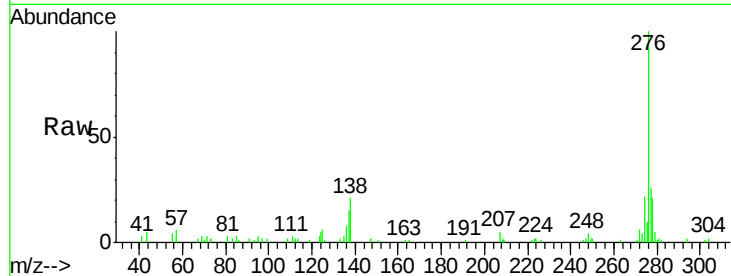
#85
Indeno(1,2,3-cd)pyrene
Concen: 9.025 ng
RT: 16.97 min Scan# 2530
Delta R.T. 0.02 min
Lab File: BF101354.D
Acq: 13 Dec 2017 3:17

Instrument :
BNA_F
ClientSampleId :
Soil-CuttingsDL

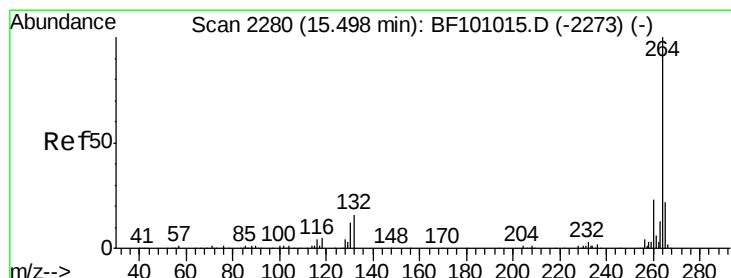
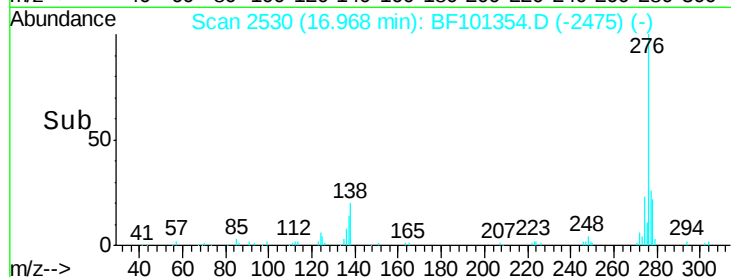
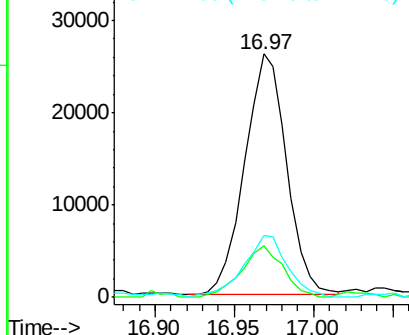
Tot Ion	Ratio	Lower	Upper
276	100		
138	21.5	25.0	37.6#
277	27.0	20.1	30.1

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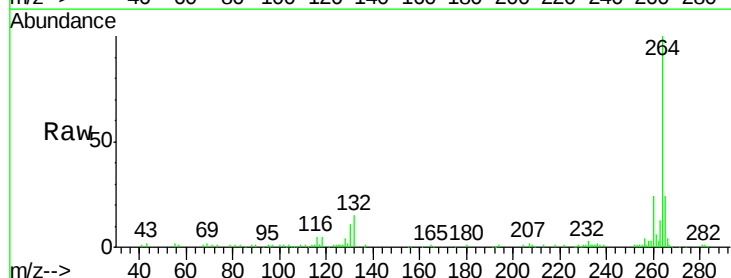


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

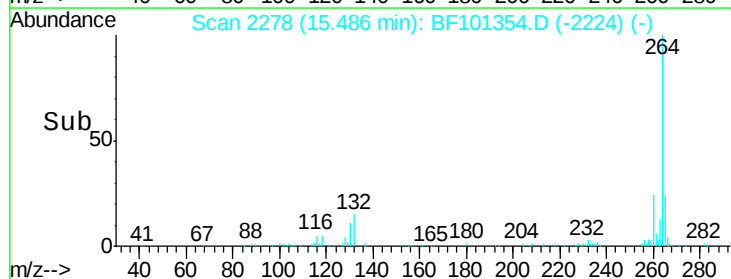
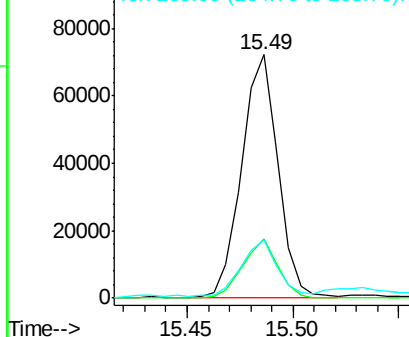


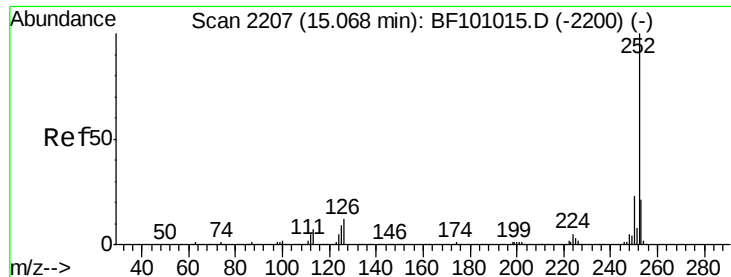
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.49 min Scan# 2278
Delta R.T. 0.02 min
Lab File: BF101354.D
Acq: 13 Dec 2017 3:17

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.2	28.8
265	23.6	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





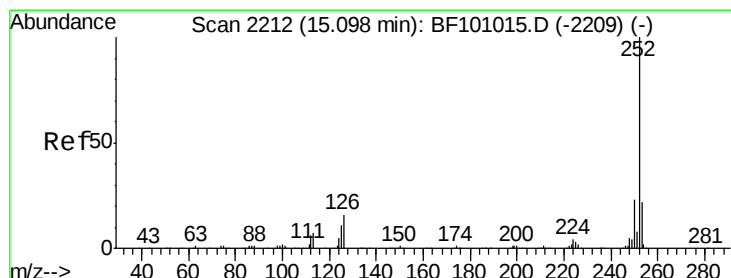
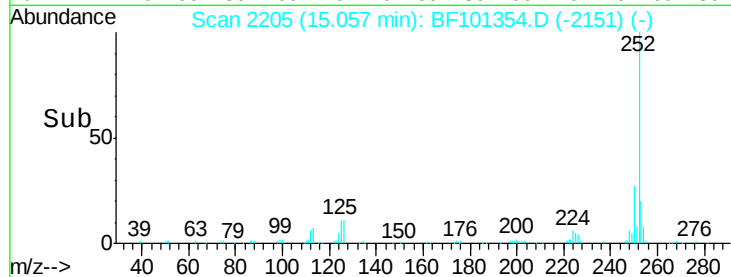
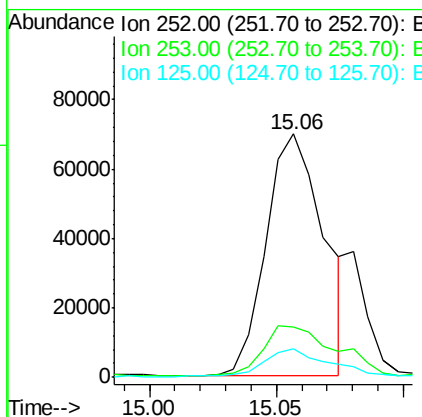
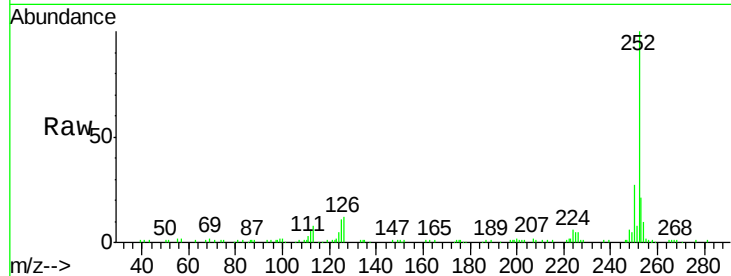
#87
Benzo(b)fluoranthene
Concen: 21.368 ng m
RT: 15.06 min Scan# 2205
Delta R.T. 0.02 min
Lab File: BF101354.D
Acq: 13 Dec 2017 3:17

Instrument :
BNA_F
ClientSampleId :
Soil-CuttingsDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	20.5	17.0	25.6
125	11.5	9.0	13.6

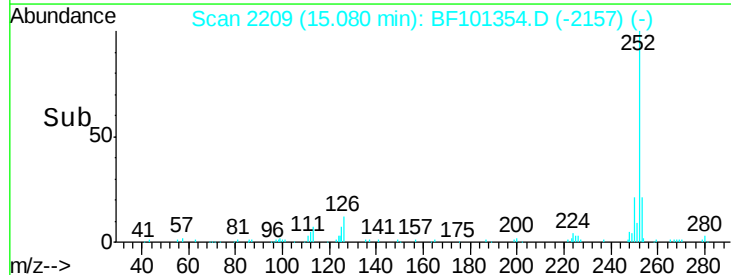
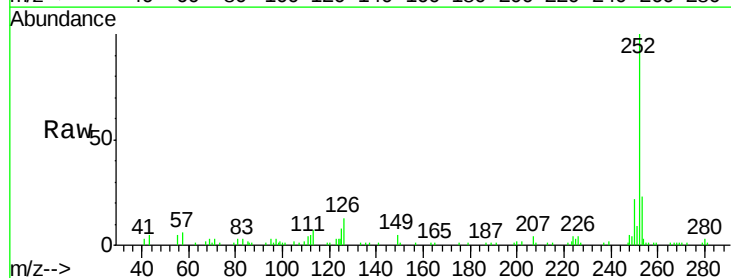
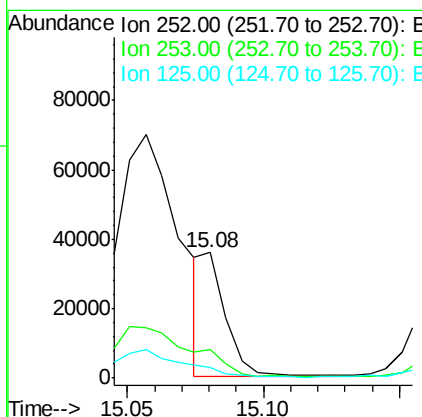
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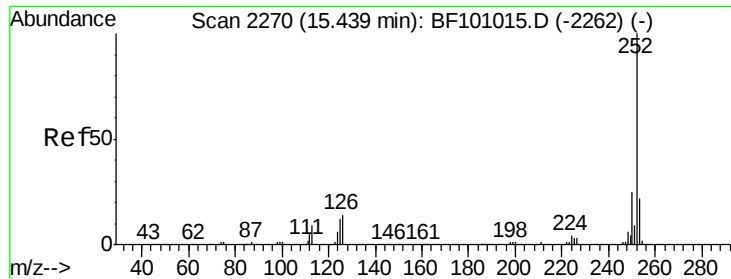
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#88
Benzo(k)fluoranthene
Concen: 4.135 ng m
RT: 15.08 min Scan# 2209
Delta R.T. 0.01 min
Lab File: BF101354.D
Acq: 13 Dec 2017 3:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.9	26.9
125	8.0	10.2	15.2





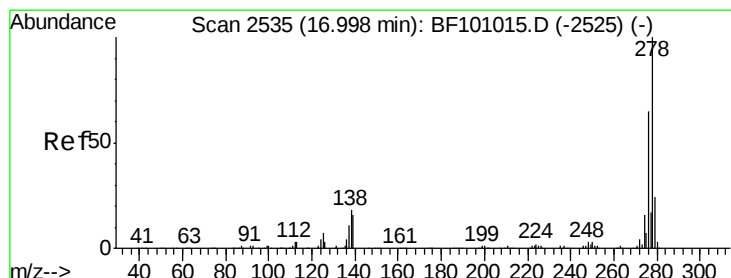
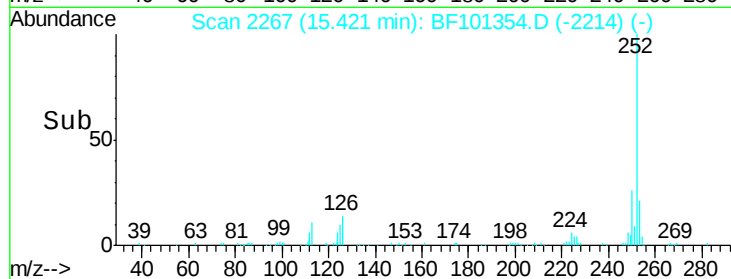
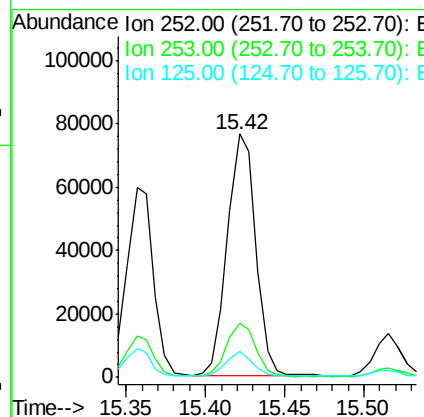
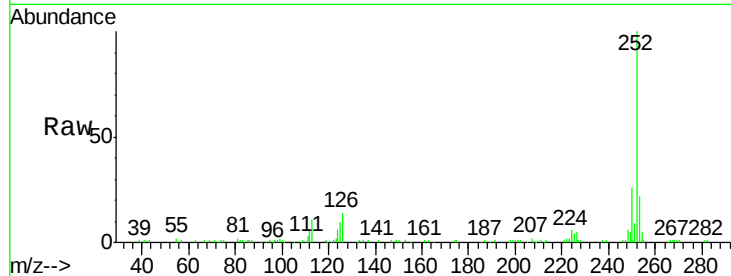
#89
Benzo(a)pyrene
Concen: 20.186 ng
RT: 15.42 min Scan# 2267
Delta R.T. 0.01 min
Lab File: BF101354.D
Acq: 13 Dec 2017 3:17

Instrument :
BNA_F
ClientSampled :
Soil-CuttingsDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.1	25.7
125	10.4	9.8	14.6

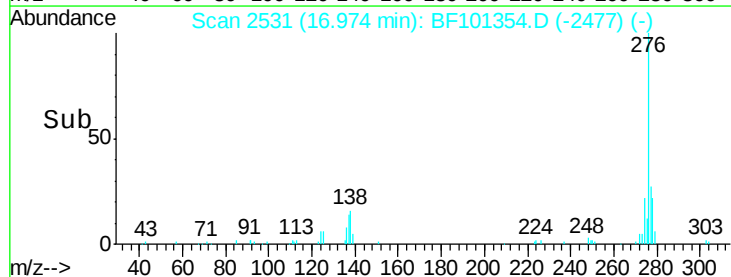
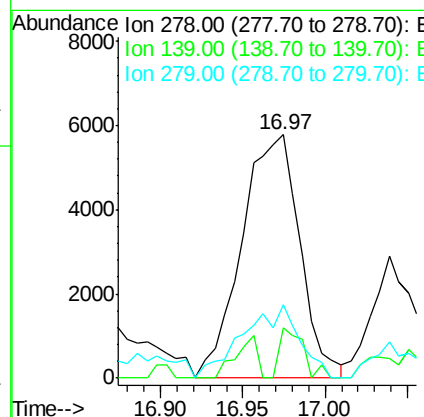
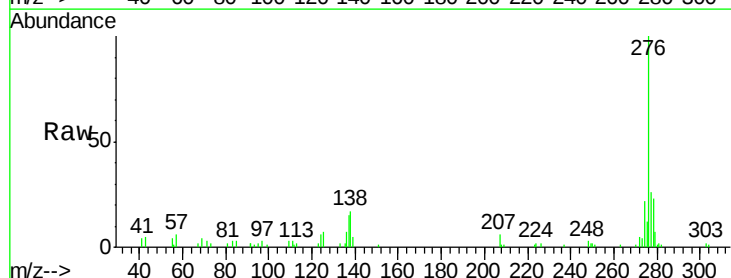
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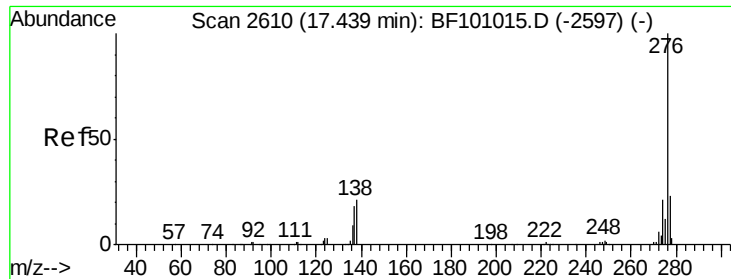
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#90
Dibenzo(a,h)anthracene
Concen: 3.399 ng m
RT: 16.97 min Scan# 2531
Delta R.T. 0.02 min
Lab File: BF101354.D
Acq: 13 Dec 2017 3:17

Tgt Ion	Ratio	Lower	Upper
278	100		
139	20.4	15.9	23.9
279	30.1	19.0	28.4





#91
 Benzo(a,h,i)perylene
 Concen: 16.565 ng/ml
 RT: 17.42 min Scan# 2607
 Delta R.T. 0.03 min
 Lab File: BF101354.D
 Acq: 13 Dec 2017 3:17

Instrument :
 BNA_F
 ClientSampleID :
 Soil-CuttingsDL

Tot Ion	Ratio	Lower	Upper
276	100		
277	20.8	17.9	26.9
138	19.5	21.8	32.8

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