

Data Path : Z:\HPCHEM1\BNA E\DATA\BE110916\
 Data File : BE092521.D
 Acq On : 9 Nov 2016 12:30
 Operator : UM/SJ
 Sample : H5524-16
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampled :
 PT-PAH-SOIL

Manual Integrations
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Quant Time: Nov 09 13:11:41 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE110816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 08 16:27:22 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	7800	5.00	ng	-0.02
7) Naphthalene-d8	10.93	136	36416	5.00	ng	0.00
12) Acenaphthene-d10	14.80	164	24897	5.00	ng	0.00
18) Phenanthrene-d10	17.56	188	52755	5.00	ng	0.00
24) Chrysene-d12	21.72	240	86413	5.00	ng	0.00
31) Perylene-d12	24.08	264	79049	5.00	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.65	112	11782	6.85	ng	0.00
5) Phenol-d6	7.31	99	16167	7.05	ng	-0.02
8) Nitrobenzene-d5	9.34	82	7414	3.10	ng	0.00
13) 2,4,6-Tribromophenol	16.30	330	4365	4.99	ng	0.00
14) 2-Fluorobiphenyl	13.42	172	20197	3.28	ng	-0.01
26) Terphenyl-d14	20.16	244	34552	3.29	ng	-0.02
Target Compounds						
9) Naphthalene	10.97	128	82212	10.44	ng	Qvalue # 95
11) 2-Methylnaphthalene	12.61	142	11826	2.31	ng	94
15) Acenaphthylene	14.51	152	63366	1.77	ng	100
16) Acenaphthene	14.87	154	68070	11.80	ng	94
17) Fluorene	15.84	166	44928	6.20	ng	99
21) Phenanthrene	17.58	178	93232	8.18	ng	# 93
22) Anthracene	17.67	178	101073	9.14	ng	98
23) Fluoranthene	19.58	202	725965	12.68	ng	98
25) Pyrene	19.95	202	354110	5.00	ng	97
27) Benzo(a)anthracene	21.70	228	249849m	2.85	ng	
28) Chrysene	21.75	228	106590m	1.41	ng	
29) Bis(2-ethylhexyl)phthalate	21.61	149	1170	0.16	ng	# 73
30) Indeno(1,2,3-cd)pyrene	26.55	276	261455	2.74	ng	99
32) Benzo(b)fluoranthene	23.35	252	120631m	6.01	ng	
33) Benzo(k)fluoranthene	23.39	252	22969m	0.92	ng	
34) Benzo(a)pyrene	23.97	252	128602	6.30	ng	# 95
35) Dibenzo(a,h)anthracene	26.58	278	50782	2.64	ng	95
36) Benzo(g,h,i)perylene	27.31	276	241324	3.05	ng	99

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

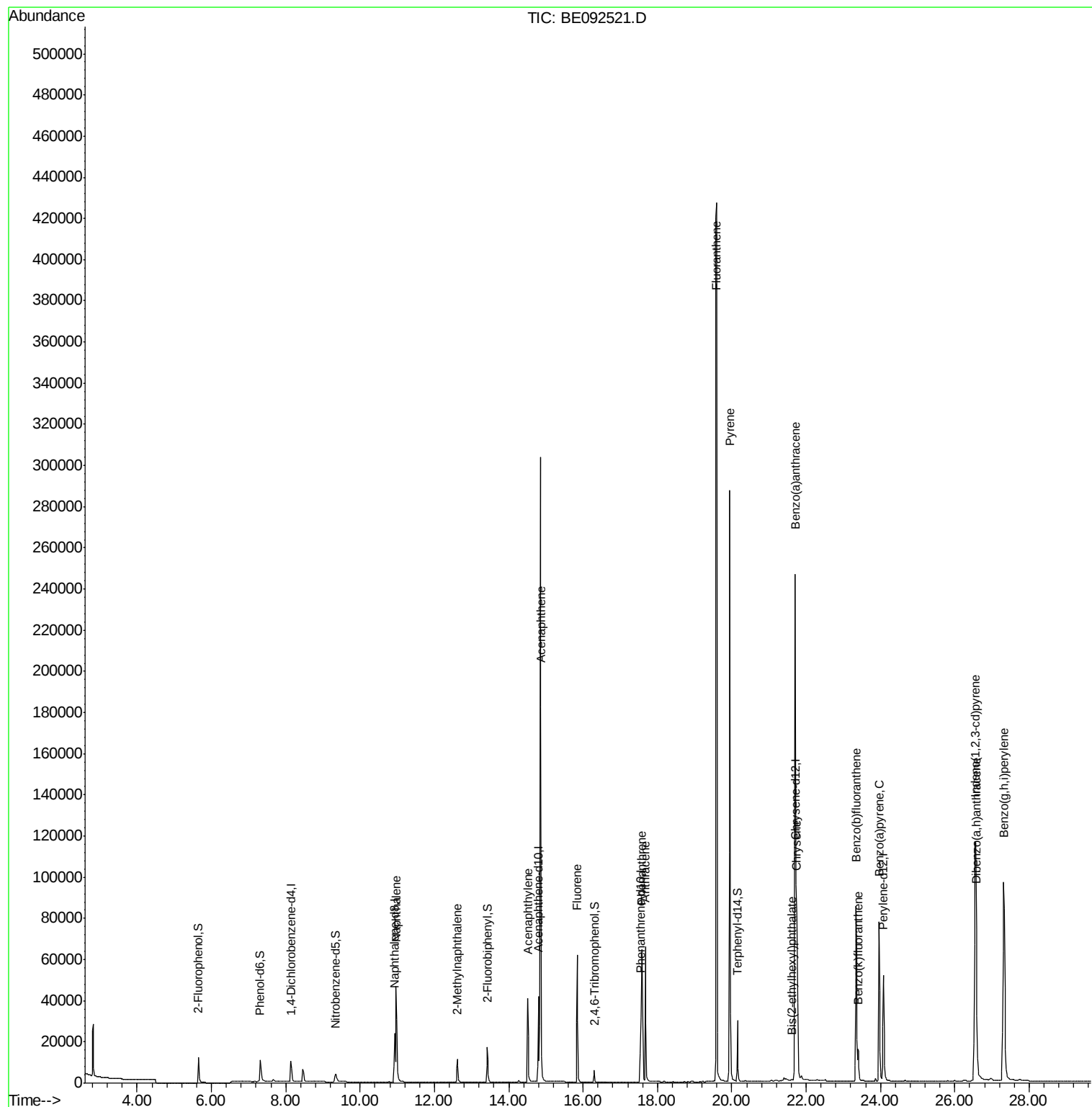
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110916\
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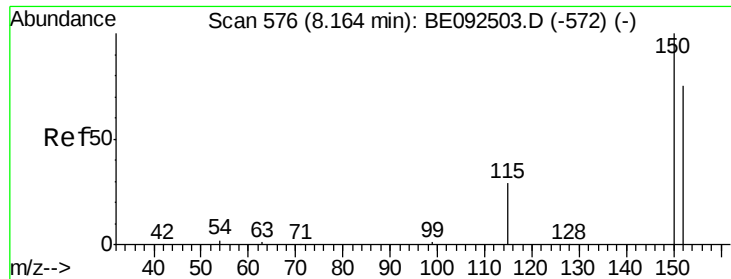
Instrument :
BNA_E
ClientSampled :
PT-PAH-SOIL

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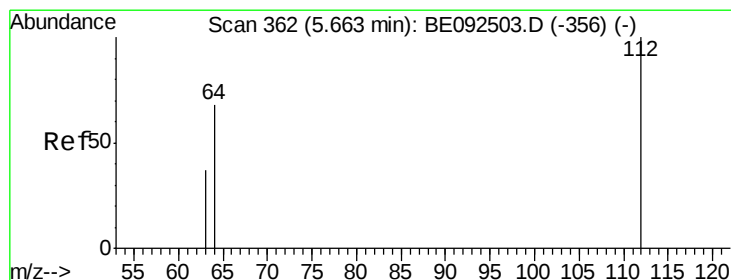
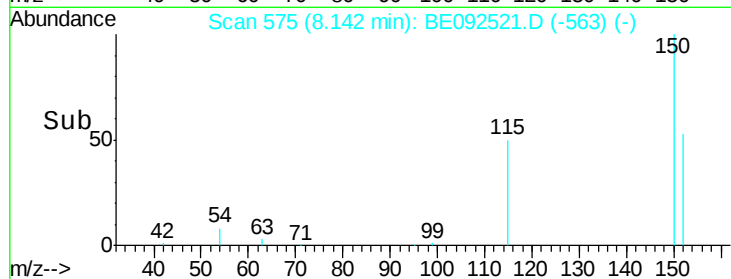
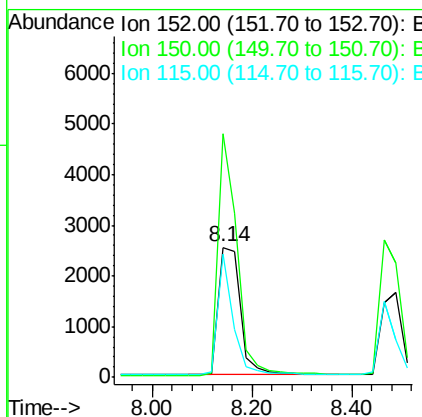
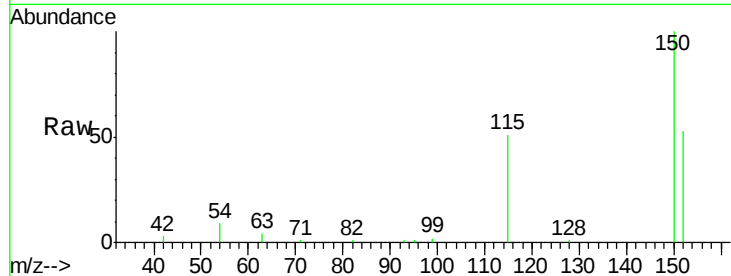
#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 8.14 min Scan# 575
 Delta R.T. -0.02 min
 Lab File: BE092521.D
 Acq: 9 Nov 2016 12:30

Instrument :
 BNA_E
 ClientSampleId :
 PT-PAH-SOIL

Tot Ion	Ratio	Lower	Upper
152	100		
150	187.5	106.0	159.0#
115	95.4	31.2	46.8#

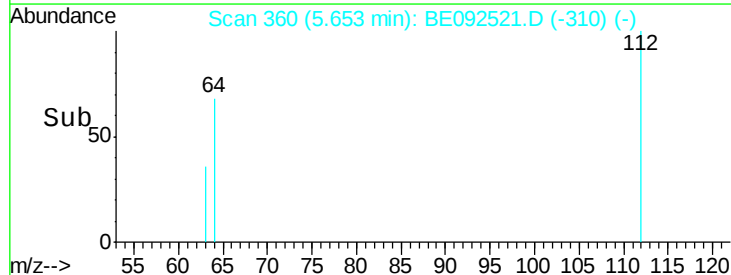
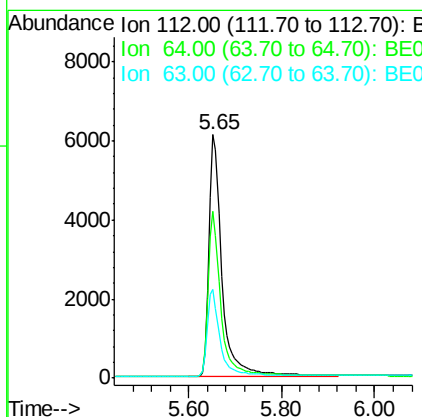
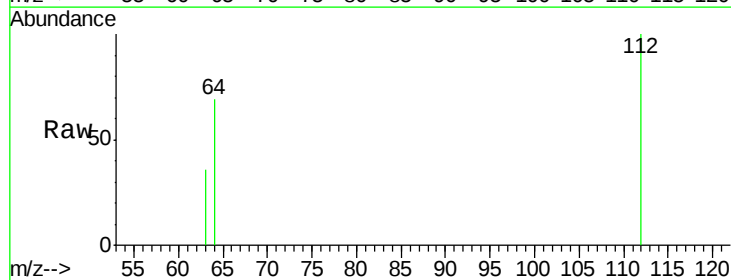
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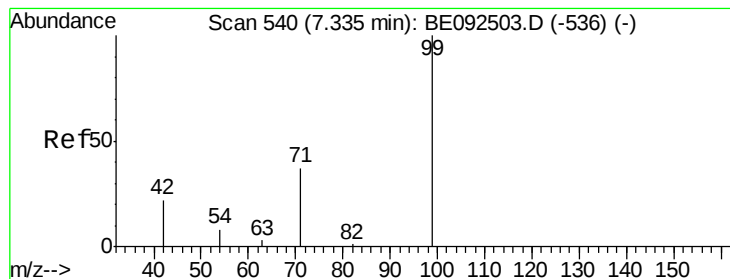
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#4
 2-Fluorophenol
 Concen: 6.85 ng
 RT: 5.65 min Scan# 360
 Delta R.T. -0.01 min
 Lab File: BE092521.D
 Acq: 9 Nov 2016 12:30

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.4	53.5	80.3
63	35.9	27.9	41.9





#5

Phenol-d6

Concen: 7.05 ng

RT: 7.31 min Scan# 539

Delta R.T. -0.02 min

Lab File: BE092521.D

Acq: 9 Nov 2016 12:30

Instrument :

BNA_E

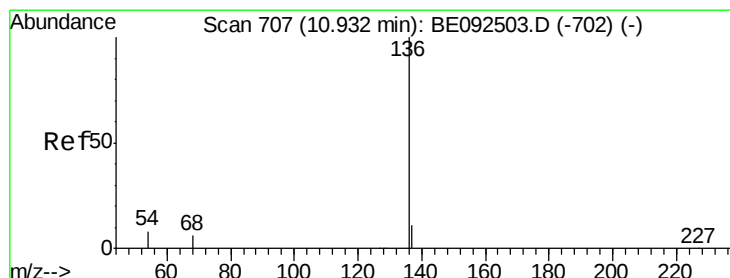
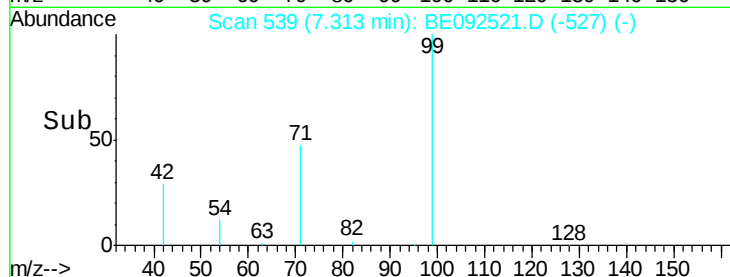
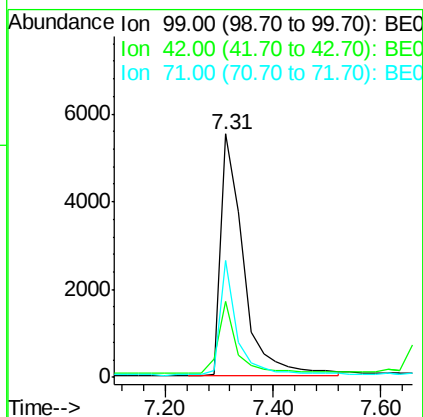
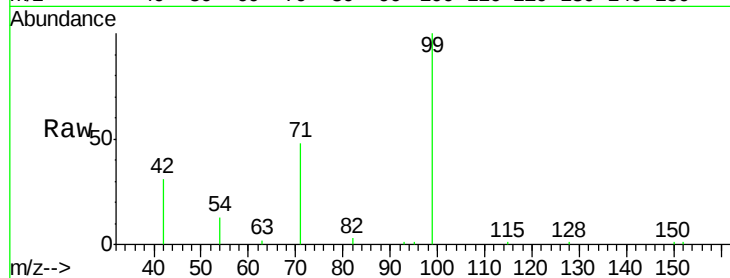
ClientSampleId :

PT-PAH-SOIL

Tot Ion:	99	Resp:	16167
Ion Ratio	Lower	Upper	
99	100		
42	23.9	16.0	24.0
71	35.7	30.6	45.8

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#7

Naphthalene-d8

Concen: 5.00 ng

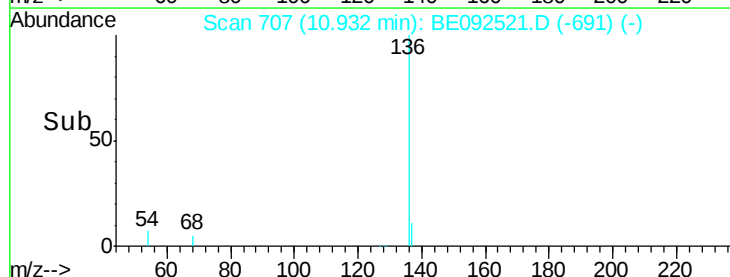
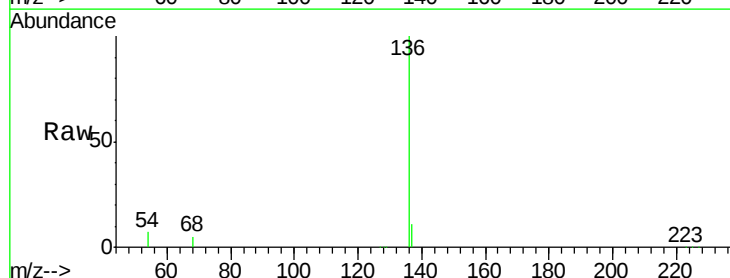
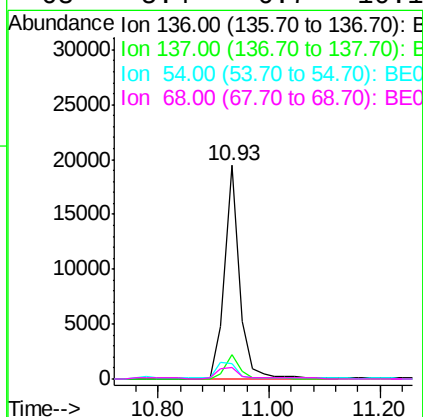
RT: 10.93 min Scan# 707

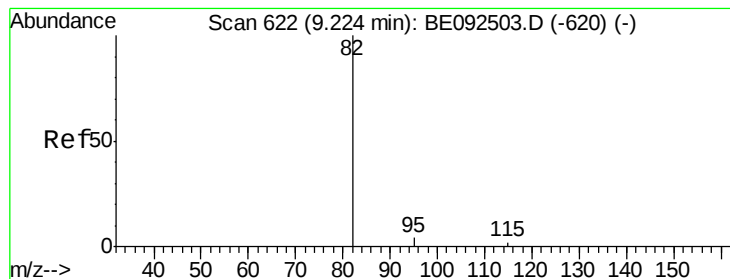
Delta R.T. 0.00 min

Lab File: BE092521.D

Acq: 9 Nov 2016 12:30

Tgt Ion:	136	Resp:	36416
Ion Ratio	Lower	Upper	
136	100		
137	11.3	8.2	12.4
54	7.1	9.6	14.4#
68	5.4	6.7	10.1#





#8

Nitrobenzene-d5

Concen: 3.10 ng

RT: 9.34 min Scan# 627

Delta R.T. 0.00 min

Lab File: BE092521.D

Acq: 9 Nov 2016 12:30

Instrument :

BNA_E

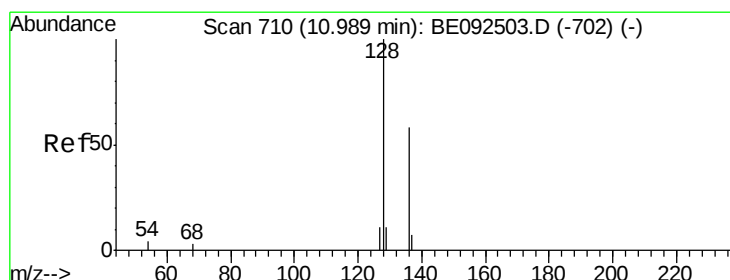
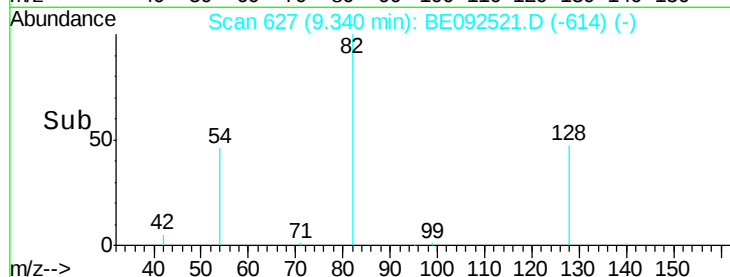
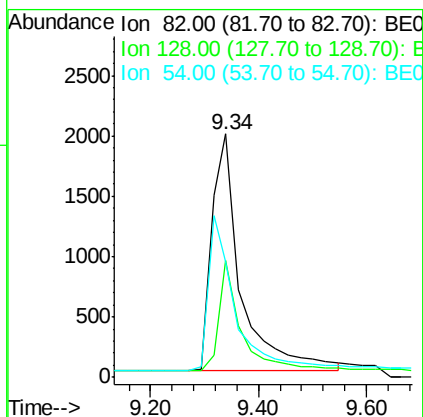
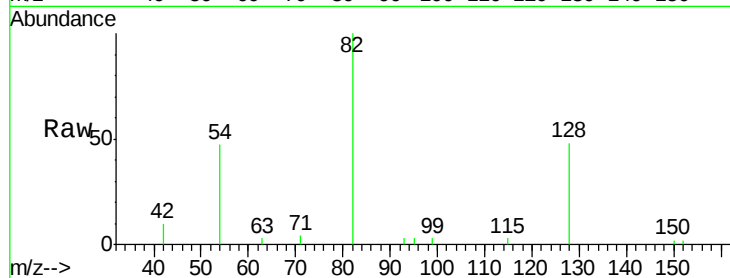
ClientSampled :

PT-PAH-SOIL

Tot Ion:	82	Resp:	7414
Ion	Ratio	Lower	Upper
82	100		
128	48.0	39.0	58.4
54	47.3	44.8	67.2

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#9

Naphthalene

Concen: 10.44 ng

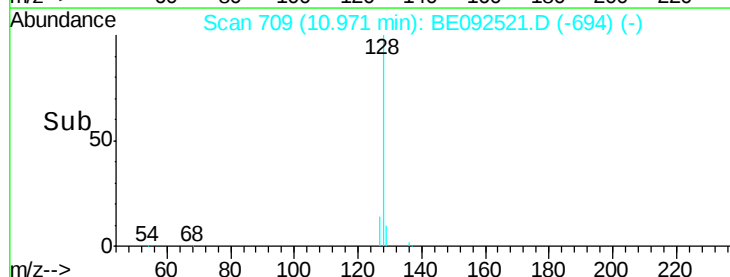
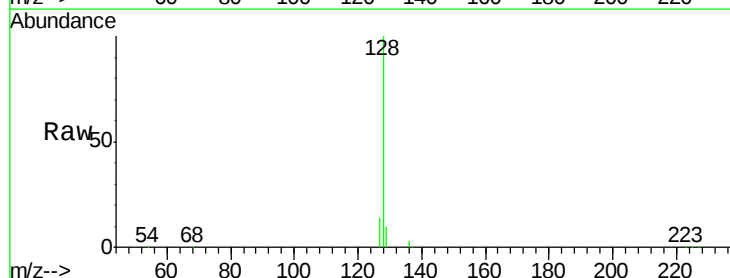
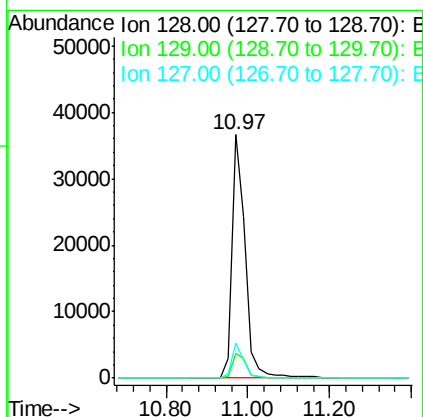
RT: 10.97 min Scan# 709

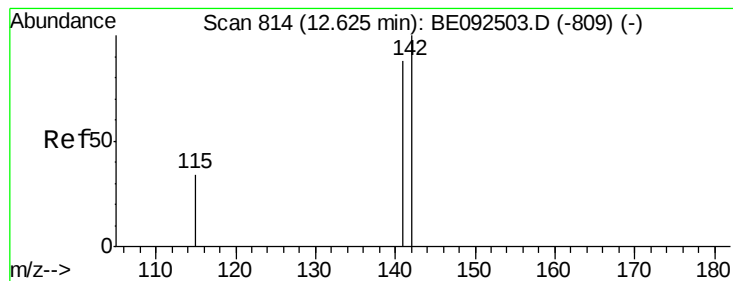
Delta R.T. -0.02 min

Lab File: BE092521.D

Acq: 9 Nov 2016 12:30

Tgt Ion:	128	Resp:	82212
Ion	Ratio	Lower	Upper
128	100		
129	10.4	11.2	16.8#
127	14.3	11.6	17.4





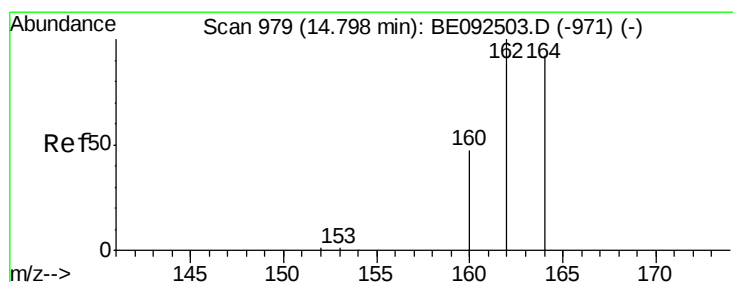
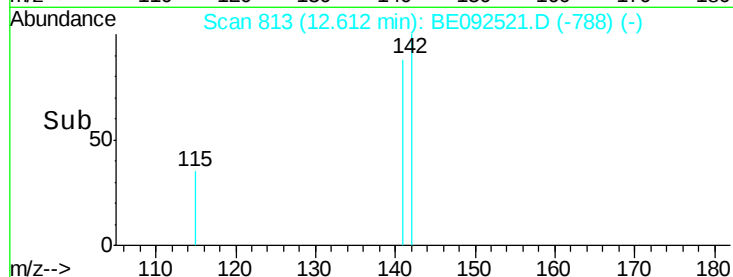
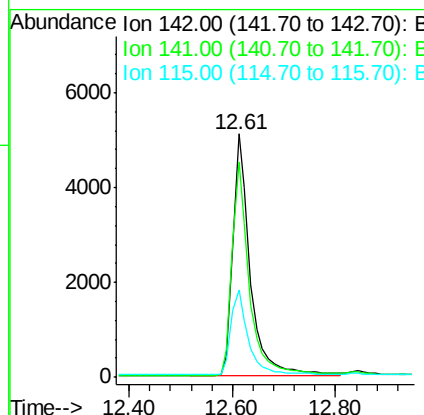
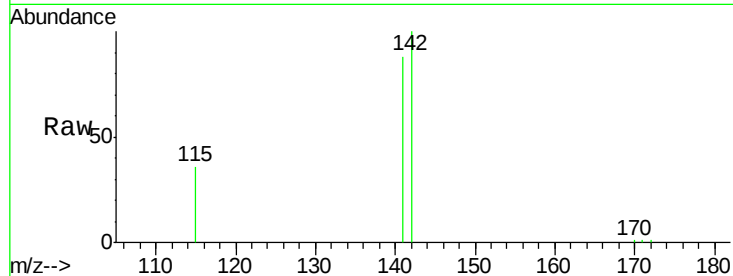
#11
2-Methylnaphthalene
Concen: 2.31 ng
RT: 12.61 min Scan# 813
Delta R.T. -0.01 min
Lab File: BE092521.D
Acq: 9 Nov 2016 12:30

Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOIL

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.5	73.7	110.5
115	35.8	34.0	51.0

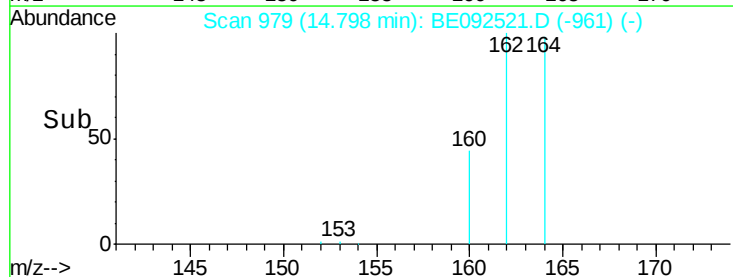
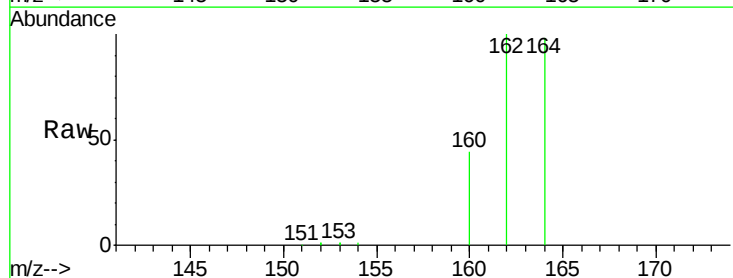
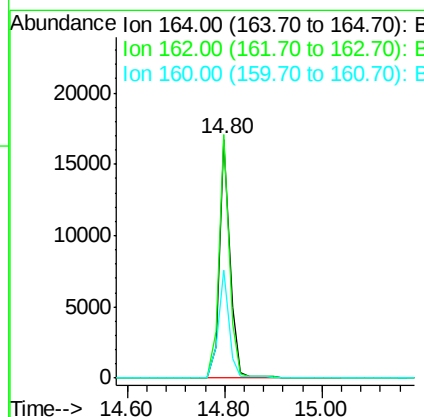
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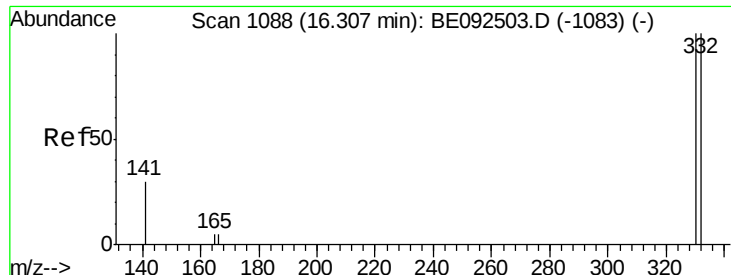
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.80 min Scan# 979
Delta R.T. 0.00 min
Lab File: BE092521.D
Acq: 9 Nov 2016 12:30

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.8	71.4	107.0
160	45.2	27.4	41.2





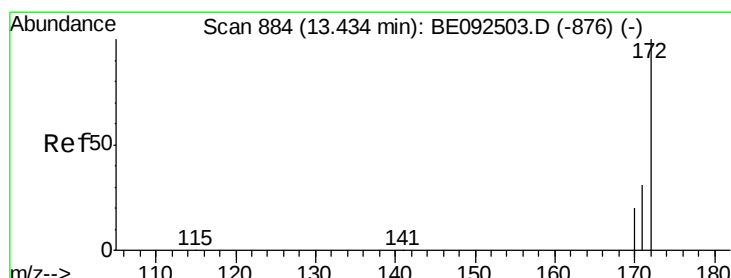
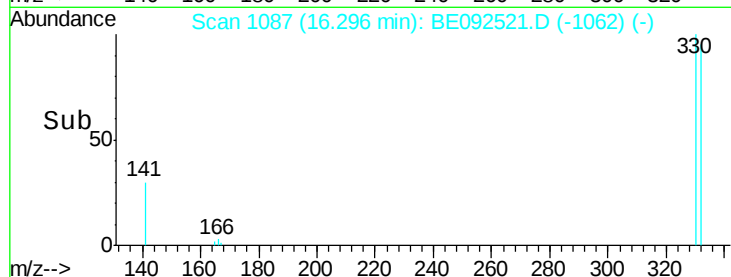
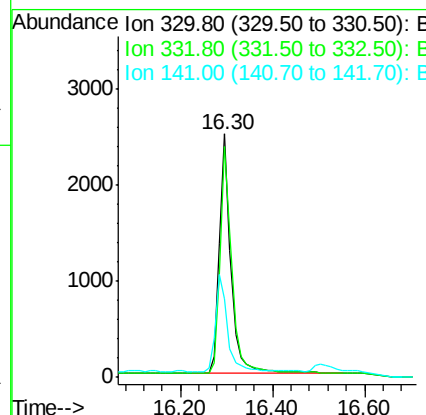
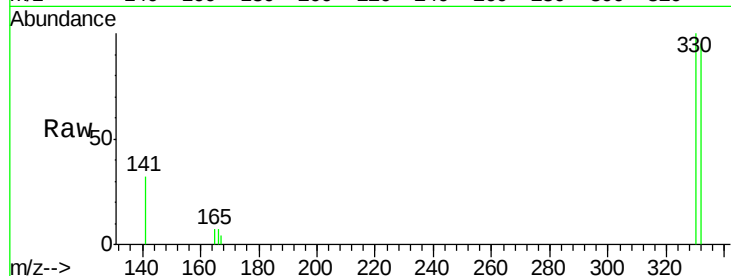
#13
 2,4,6-Tribromophenol
 Concen: 4.99 ng
 RT: 16.30 min Scan# 1087
 Delta R.T. -0.01 min
 Lab File: BE092521.D
 Acq: 9 Nov 2016 12:30

Instrument :
 BNA_E
 ClientSampleId :
 PT-PAH-SOIL

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.1	75.4	113.0
141	42.8	31.0	46.6

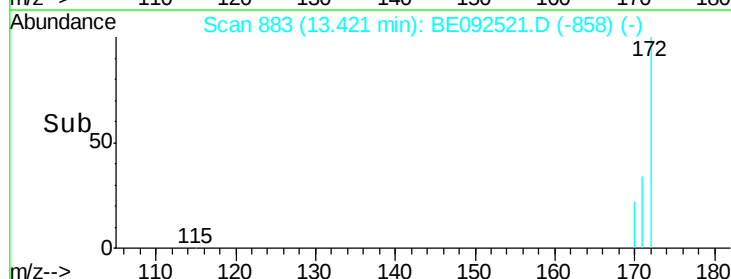
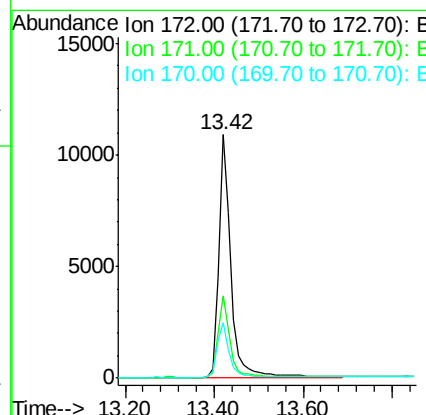
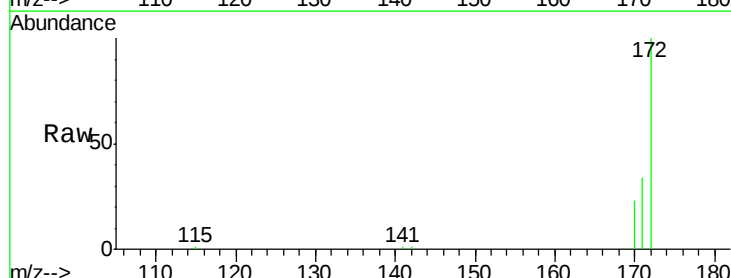
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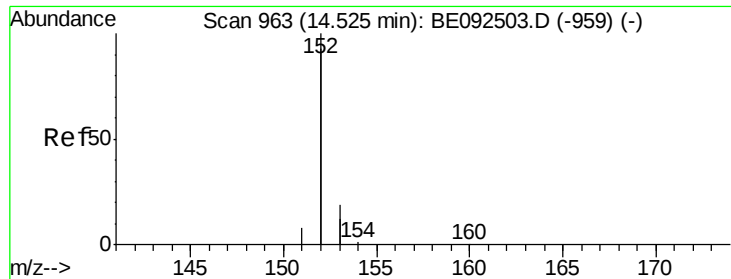
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#14
 2-Fluorobiphenyl
 Concen: 3.28 ng
 RT: 13.42 min Scan# 883
 Delta R.T. -0.01 min
 Lab File: BE092521.D
 Acq: 9 Nov 2016 12:30

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.0	30.1	45.1
170	22.6	21.8	32.6





#15

Acenaphthylene

Concen: 1.77 ng

RT: 14.51 min Scan# 962

Delta R.T. -0.02 min

Lab File: BE092521.D

Acq: 9 Nov 2016 12:30

Instrument :

BNA_E

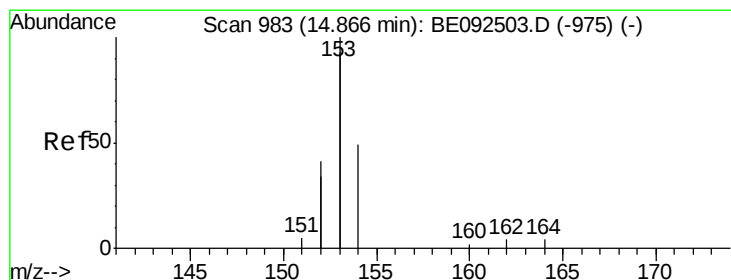
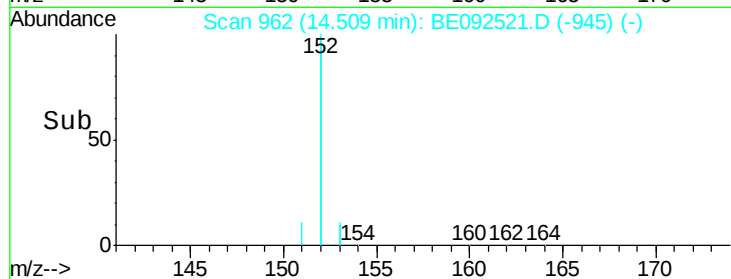
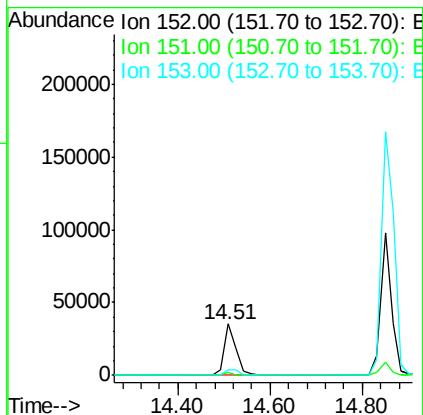
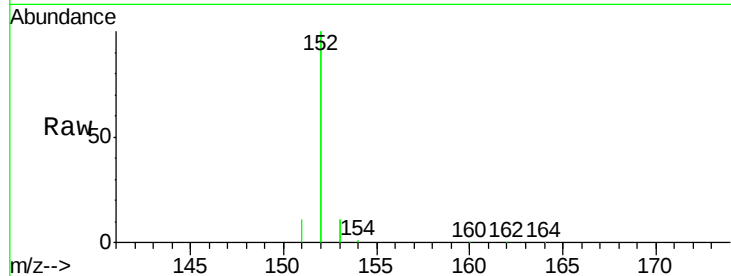
ClientSampleId :

PT-PAH-SOIL

Tot Ion:	152	Resp:	63366
Ion Ratio	Lower	Upper	
152	100		
151	4.9	3.9	5.9
153	13.2	10.4	15.6

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#16

Acenaphthene

Concen: 11.80 ng

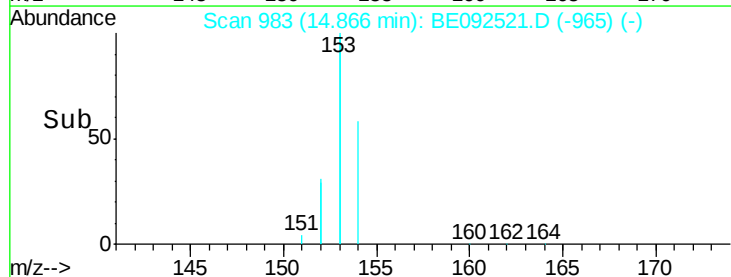
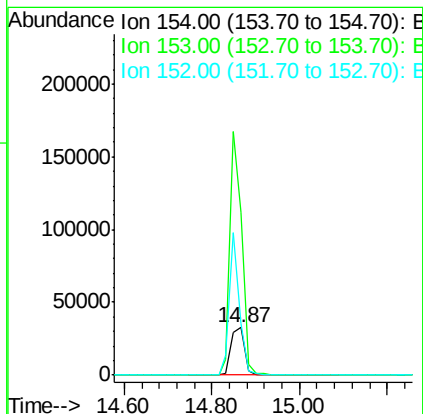
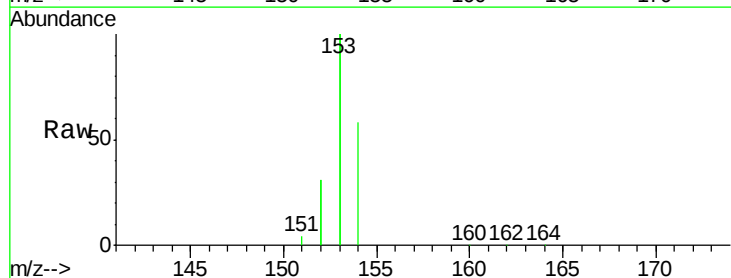
RT: 14.87 min Scan# 983

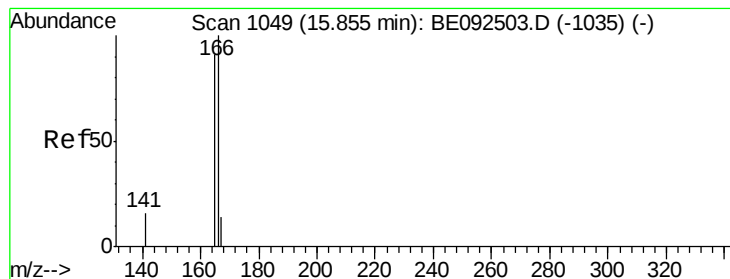
Delta R.T. 0.00 min

Lab File: BE092521.D

Acq: 9 Nov 2016 12:30

Tgt Ion:	154	Resp:	68070
Ion Ratio	Lower	Upper	
154	100		
153	452.1	350.8	526.2
152	224.4	171.1	256.7





#17

Fluorene

Concen: 6.20 ng

RT: 15.84 min Scan# 1048

Delta R.T. -0.01 min

Lab File: BE092521.D

Acq: 9 Nov 2016 12:30

Instrument :

BNA_E

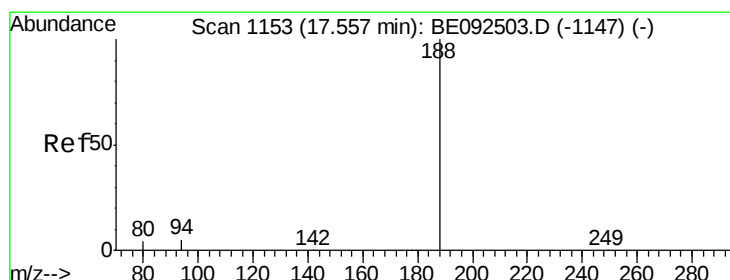
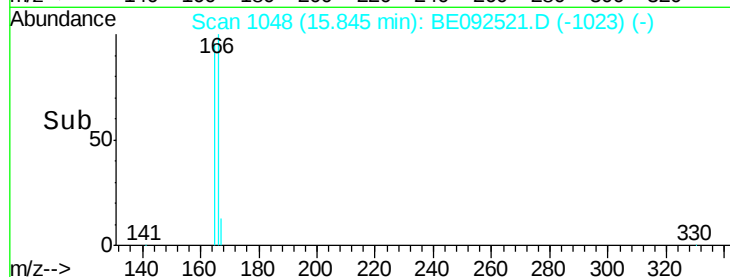
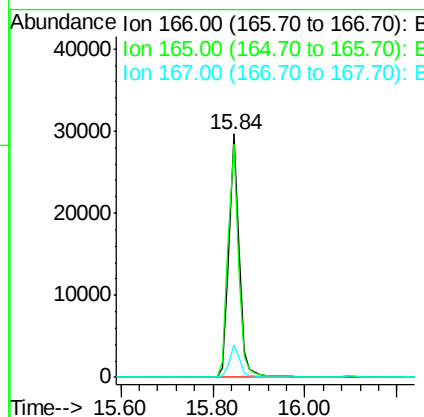
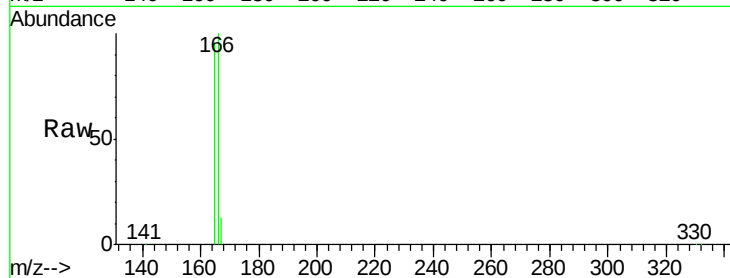
ClientSampleId :

PT-PAH-SOIL

Tot Ion:	166	Resp:	44928
Ion Ratio	Lower	Upper	
166	100		
165	98.4	78.2	117.4
167	13.2	11.0	16.4

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#18

Phenanthrene-d10

Concen: 5.00 ng

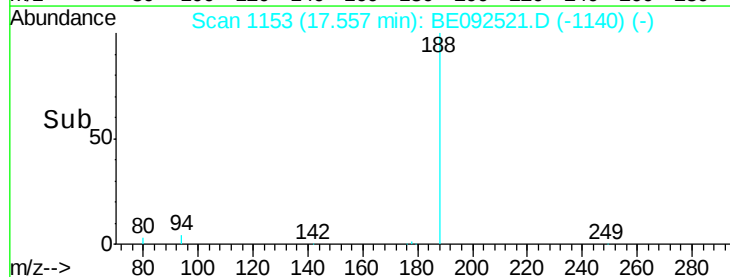
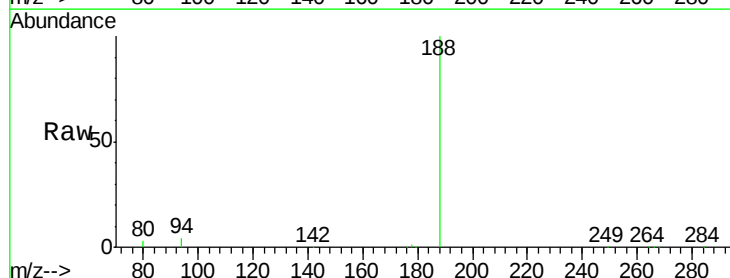
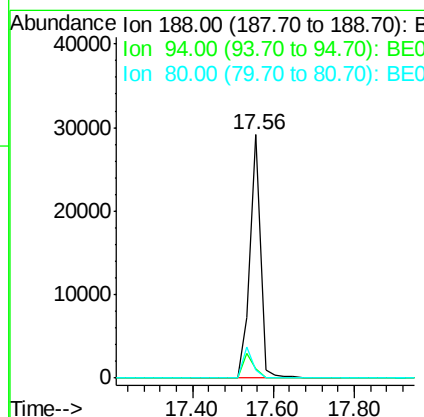
RT: 17.56 min Scan# 1153

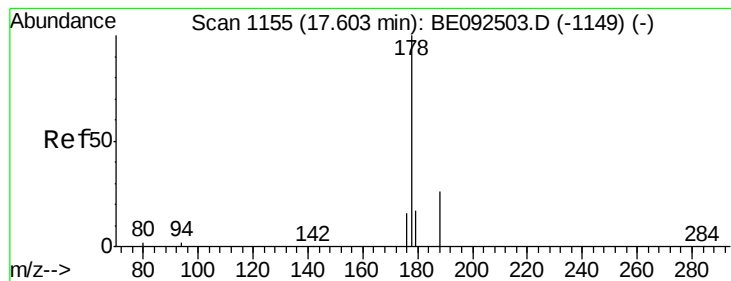
Delta R.T. 0.00 min

Lab File: BE092521.D

Acq: 9 Nov 2016 12:30

Tgt Ion:	188	Resp:	52755
Ion Ratio	Lower	Upper	
188	100		
94	3.8	3.2	4.8
80	3.1	2.6	3.8





#21

Phenanthrene

Concen: 8.18 ng

RT: 17.58 min Scan# 1154

Delta R.T. -0.02 min

Lab File: BE092521.D

Acq: 9 Nov 2016 12:30

Instrument :

BNA_E

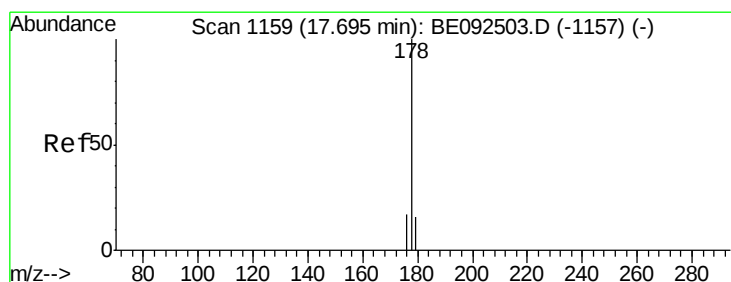
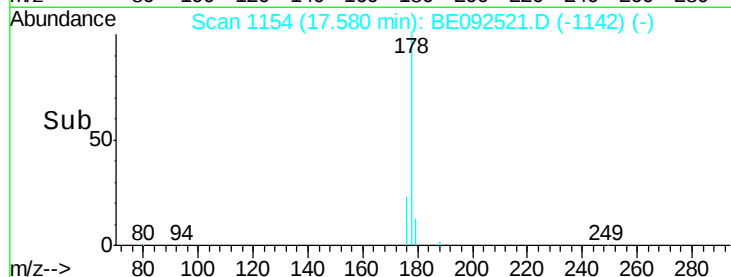
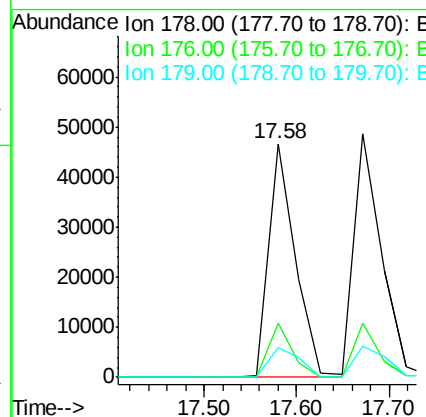
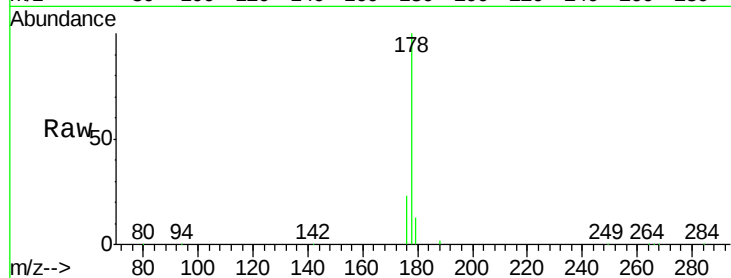
ClientSampleId :

PT-PAH-SOIL

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.7	15.8	23.8
179	14.7	16.0	24.0

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#22

Anthracene

Concen: 9.14 ng

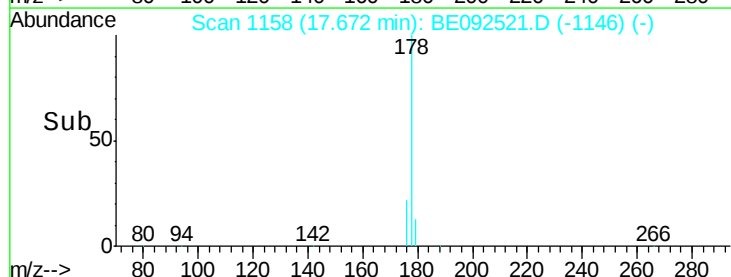
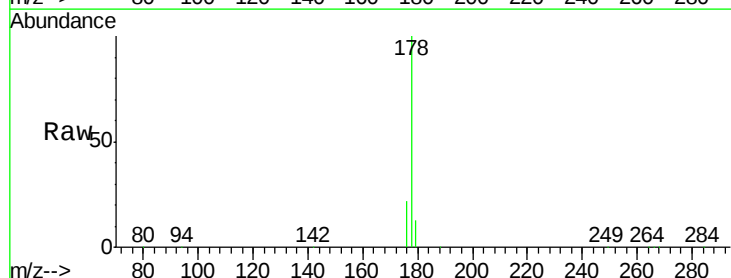
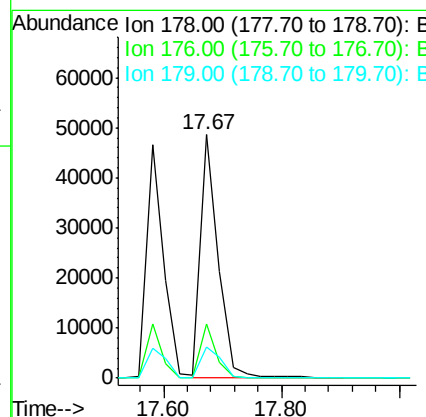
RT: 17.67 min Scan# 1158

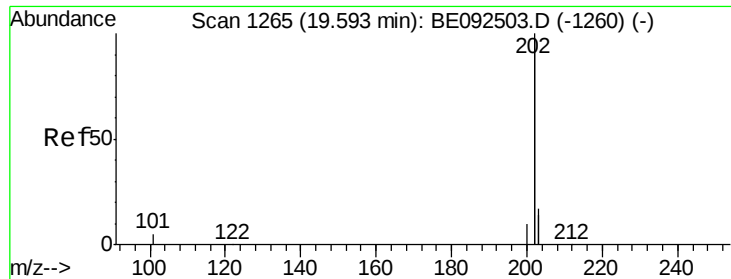
Delta R.T. -0.02 min

Lab File: BE092521.D

Acq: 9 Nov 2016 12:30

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.0	22.4
179	14.9	12.2	18.2





#23

Fluoranthene

Concen: 12.68 ng

RT: 19.58 min Scan# 1264

Delta R.T. -0.02 min

Lab File: BE092521.D

Acq: 9 Nov 2016 12:30

Instrument :

BNA_E

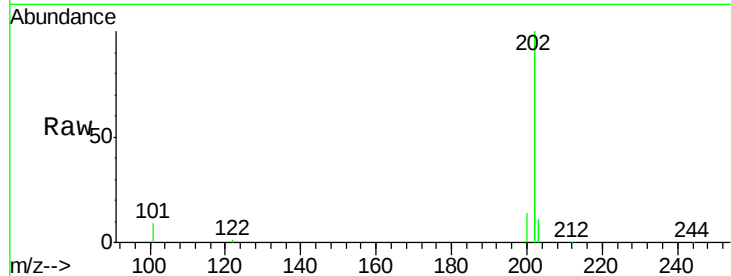
ClientSampleId :

PT-PAH-SOIL

Tot Ion	Ratio	Resp	Lower	Upper
202	100	725965		
101	2.9		2.2	3.4
203	18.1		13.7	20.5

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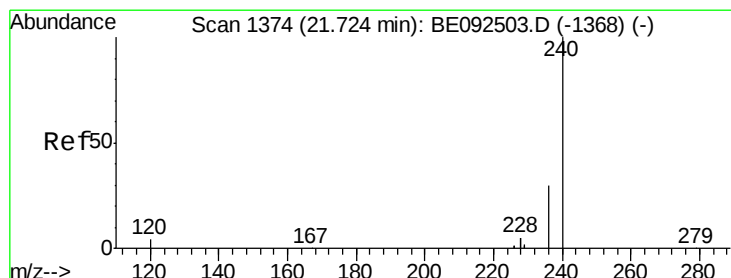
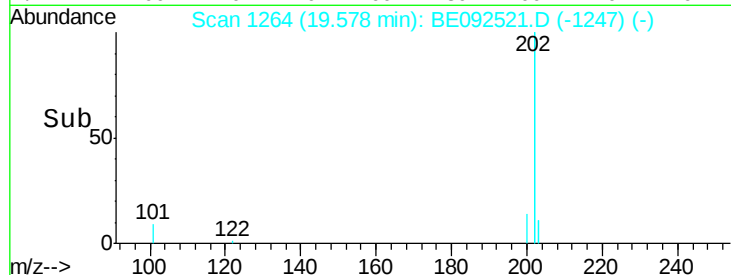
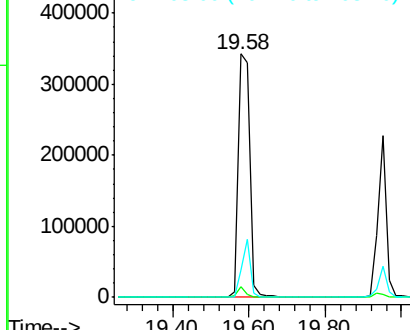
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#24

Chrysene-d12

Concen: 5.00 ng

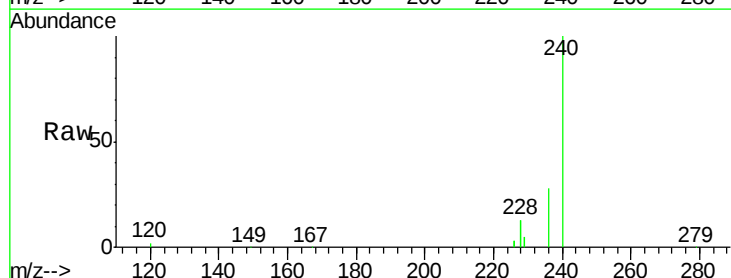
RT: 21.72 min Scan# 1374

Delta R.T. 0.00 min

Lab File: BE092521.D

Acq: 9 Nov 2016 12:30

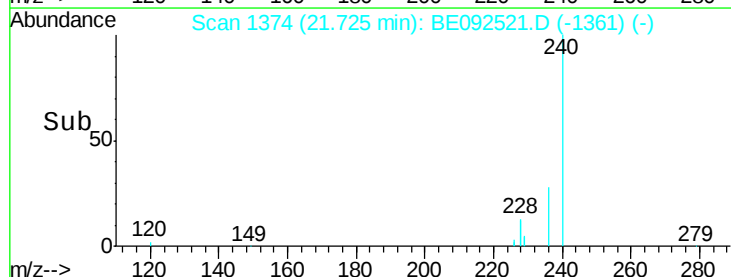
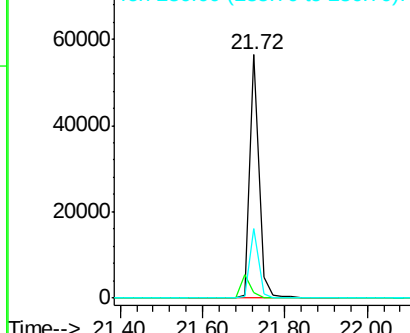
Tgt Ion	Ratio	Resp	Lower	Upper
240	100	86413		
120	2.3		2.6	4.0#
236	28.3		24.6	37.0

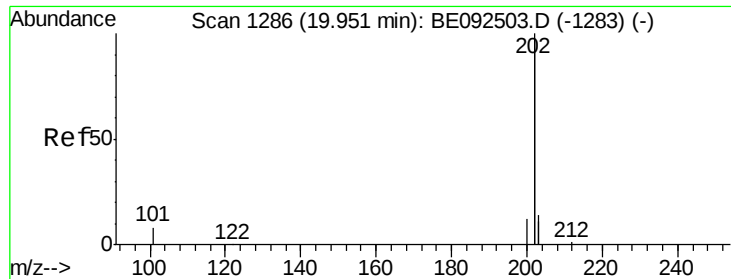


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





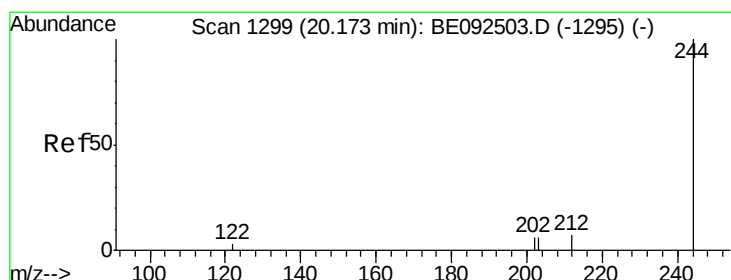
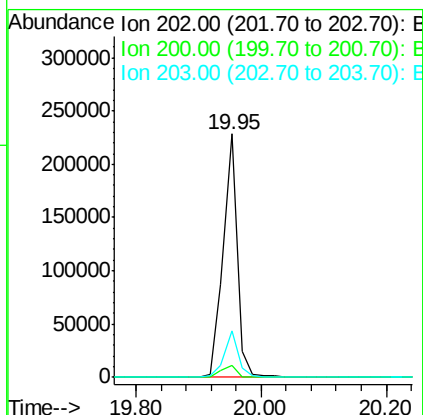
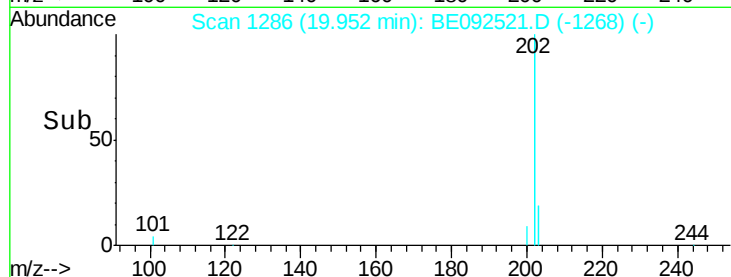
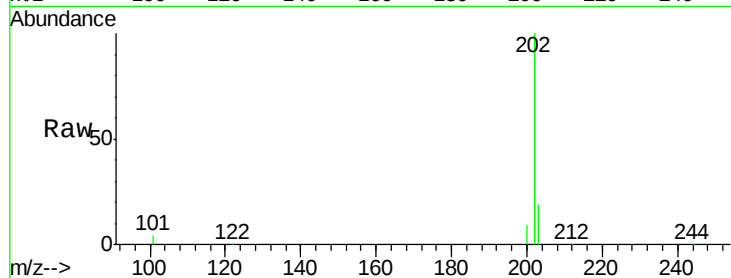
#25
Pvrene
Concen: 5.00 ng
RT: 19.95 min Scan# 1286
Delta R.T. 0.00 min
Lab File: BE092521.D
Acq: 9 Nov 2016 12:30

Instrument :
BNA_E
ClientSampled :
PT-PAH-SOIL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	5.4	4.2	6.4
203	18.9	13.9	20.9

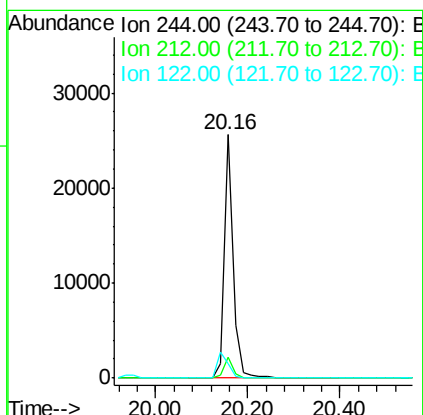
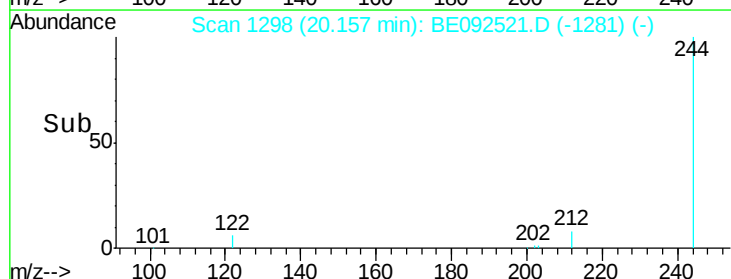
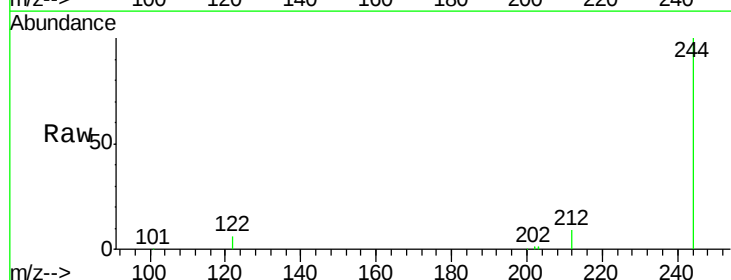
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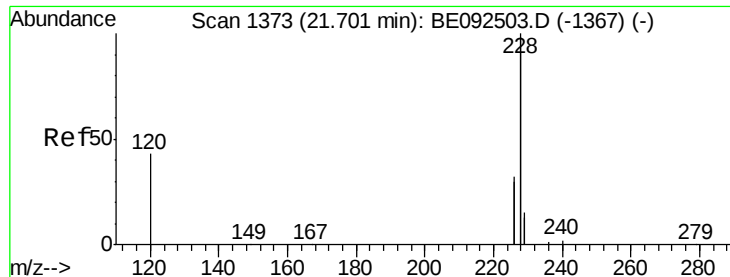
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#26
Terphenyl-d14
Concen: 3.29 ng
RT: 20.16 min Scan# 1298
Delta R.T. -0.02 min
Lab File: BE092521.D
Acq: 9 Nov 2016 12:30

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	8.6	6.7	10.1
122	5.9	3.6	5.4#





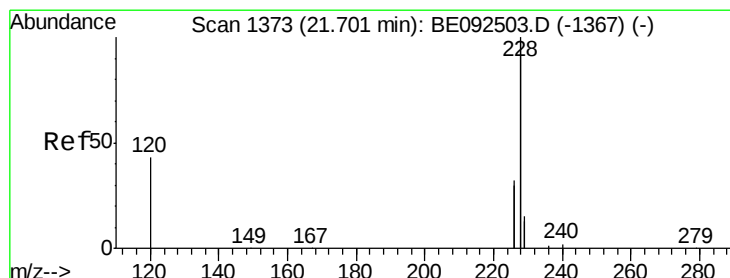
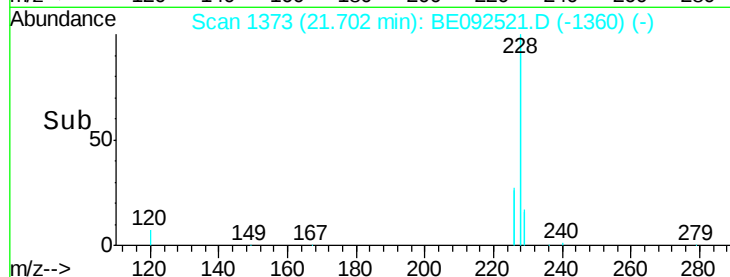
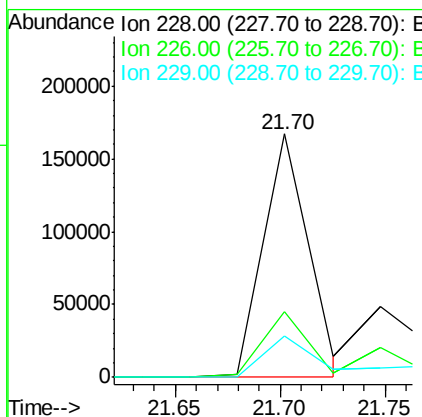
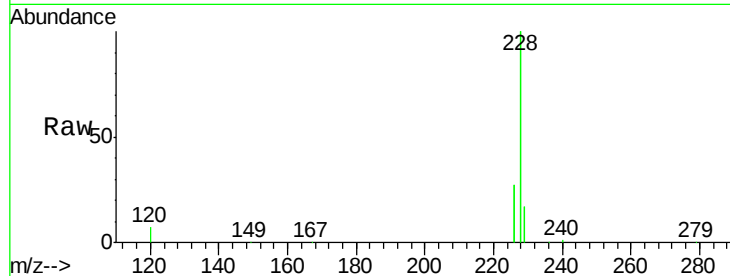
#27
Benzo(a)anthracene
Concen: 2.85 ng m
RT: 21.70 min Scan# 1373
Delta R.T. 0.00 min
Lab File: BE092521.D
Acq: 9 Nov 2016 12:30

Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOIL

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.0	23.6	35.4
229	16.8	13.3	19.9

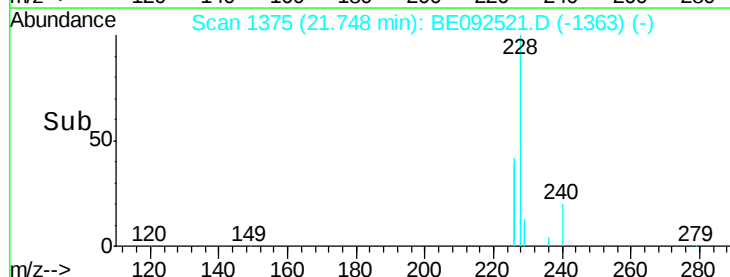
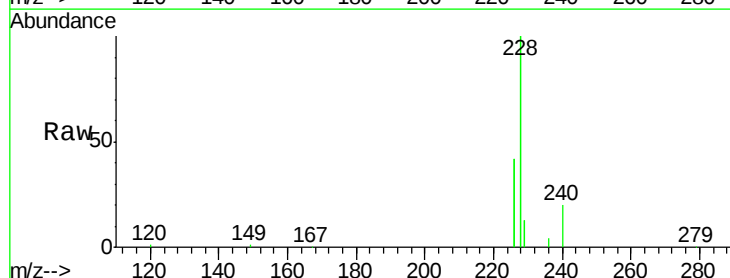
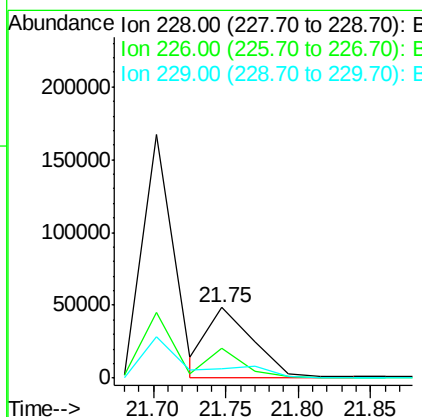
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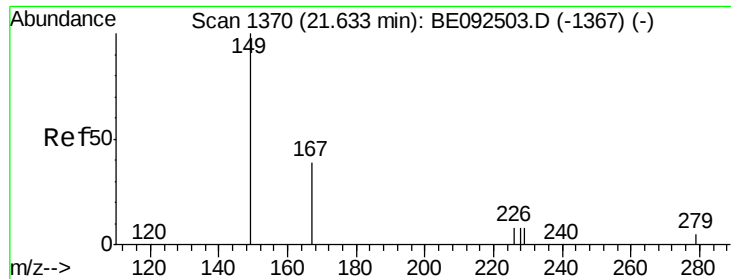
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#28
Chrysene
Concen: 1.41 ng m
RT: 21.75 min Scan# 1375
Delta R.T. -0.02 min
Lab File: BE092521.D
Acq: 9 Nov 2016 12:30

Tgt Ion	Ratio	Lower	Upper
228	100		
226	41.5	36.3	54.5
229	13.4	10.6	16.0





#29

Bis(2-ethylhexyl)phthalate

Concen: 0.16 ng

RT: 21.61 min Scan# 1369

Delta R.T. -0.02 min

Lab File: BE092521.D

Acq: 9 Nov 2016 12:30

Instrument :

BNA_E

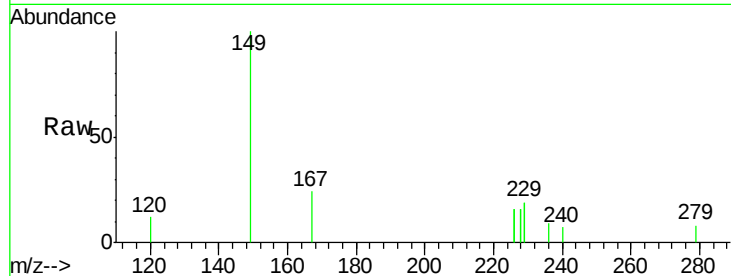
ClientSampleId :

PT-PAH-SOIL

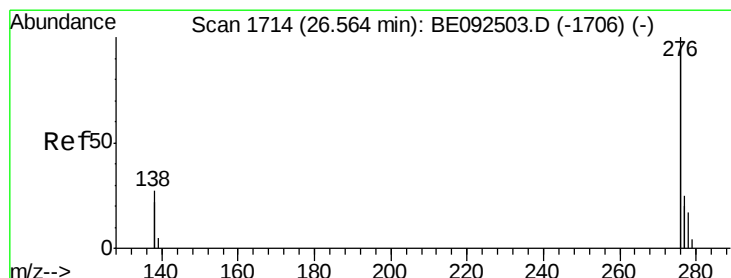
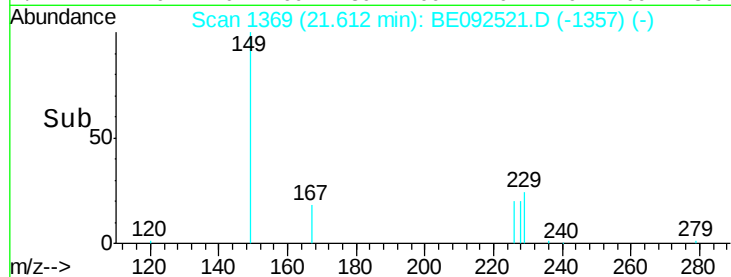
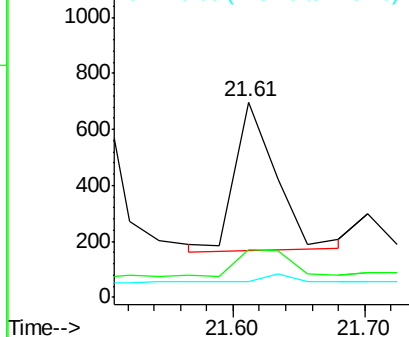
Tot Ion:	149	Resp:	1170
Ion Ratio	Lower	Upper	
149	100		
167	24.9	16.0	24.0#
279	0.0	16.0	24.0#

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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



#30

Indeno(1,2,3-cd)pyrene

Concen: 2.74 ng

RT: 26.55 min Scan# 1713

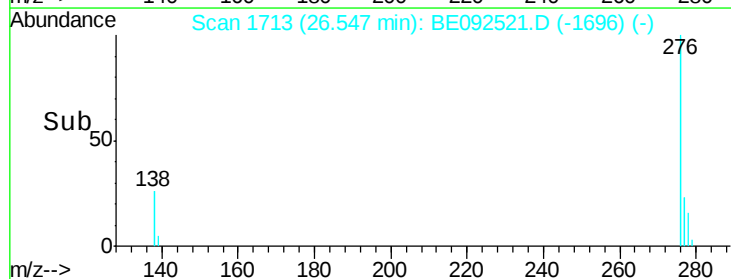
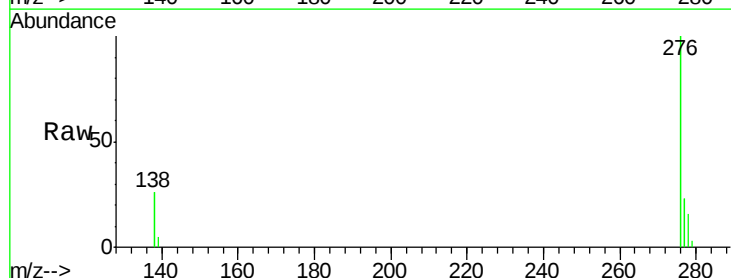
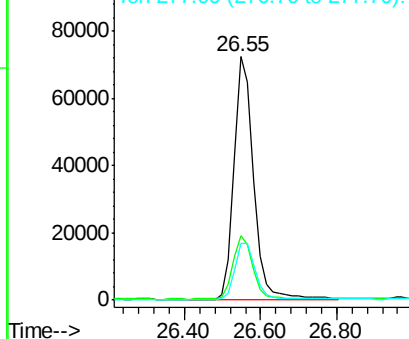
Delta R.T. -0.02 min

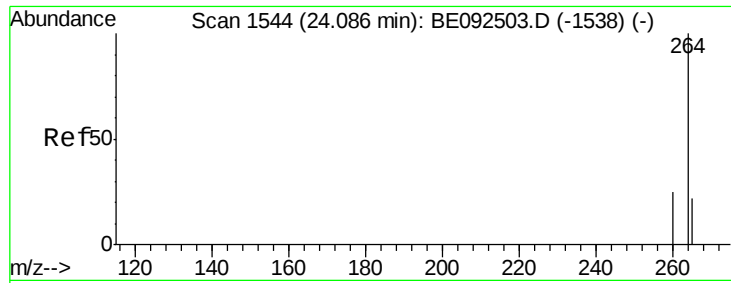
Lab File: BE092521.D

Acq: 9 Nov 2016 12:30

Tgt Ion:	276	Resp:	261455
Ion Ratio	Lower	Upper	
276	100		
138	26.6	20.3	30.5
277	24.4	19.7	29.5

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





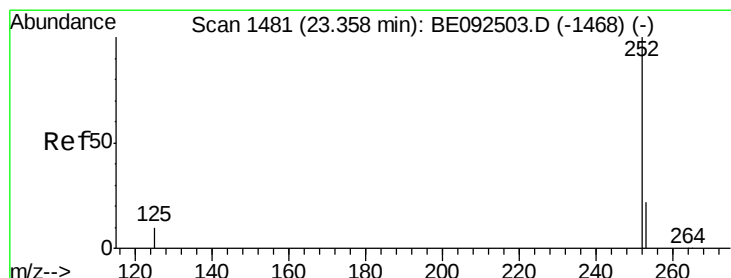
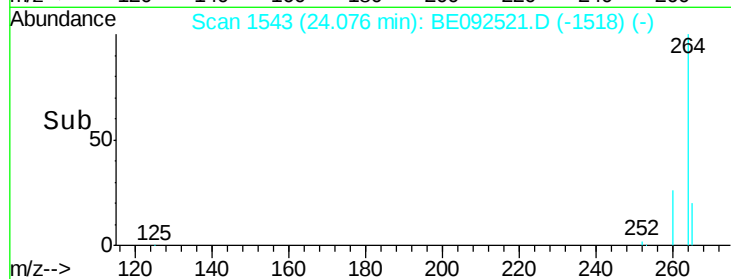
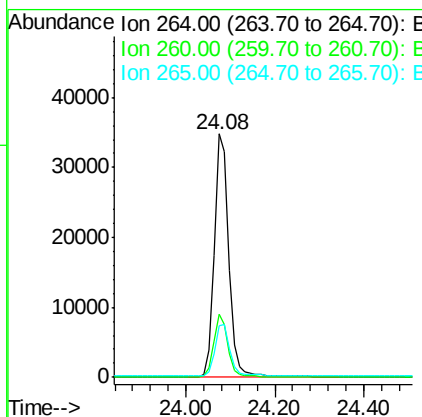
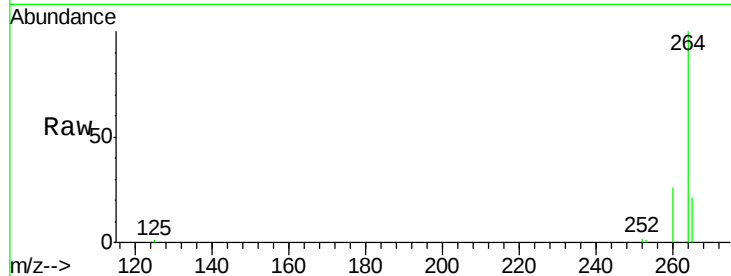
#31
Pervlene-d12
Concen: 5.00 ng
RT: 24.08 min Scan# 1543
Delta R.T. -0.01 min
Lab File: BE092521.D
Acq: 9 Nov 2016 12:30

Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOIL

Tot Ion	Ratio	Lower	Upper
264	100		
260	26.1	20.1	30.1
265	21.1	17.9	26.9

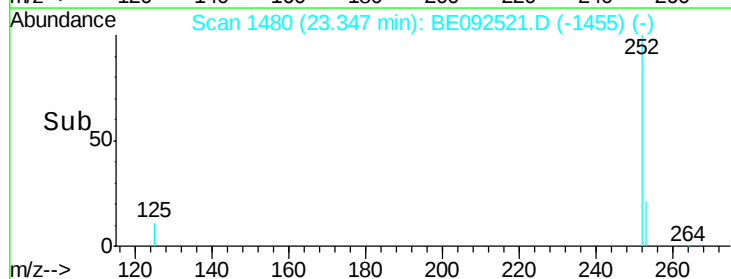
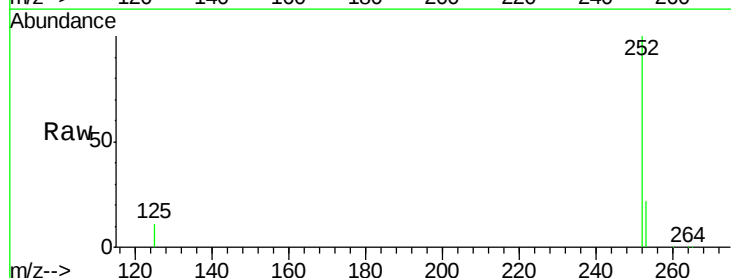
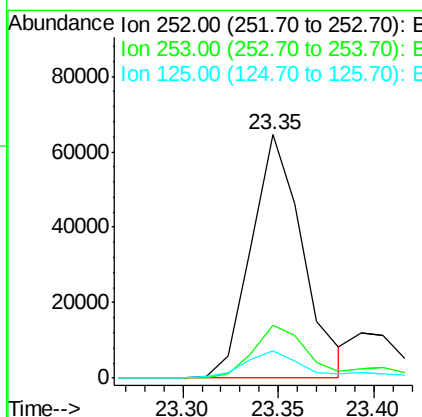
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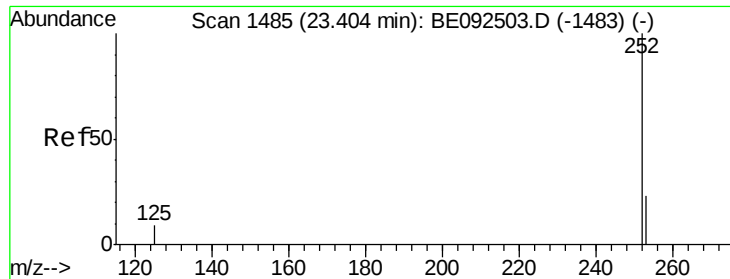
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#32
Benzo(b)fluoranthene
Concen: 6.01 ng m
RT: 23.35 min Scan# 1480
Delta R.T. -0.01 min
Lab File: BE092521.D
Acq: 9 Nov 2016 12:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.6	18.7	28.1
125	11.1	10.5	15.7





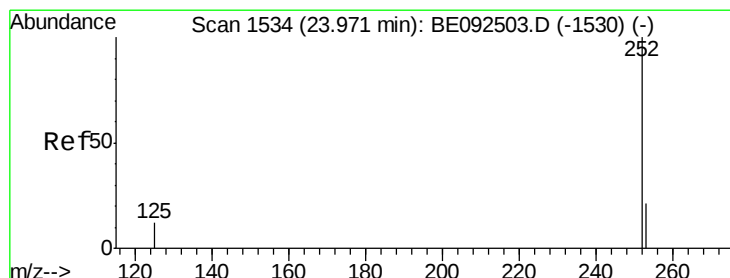
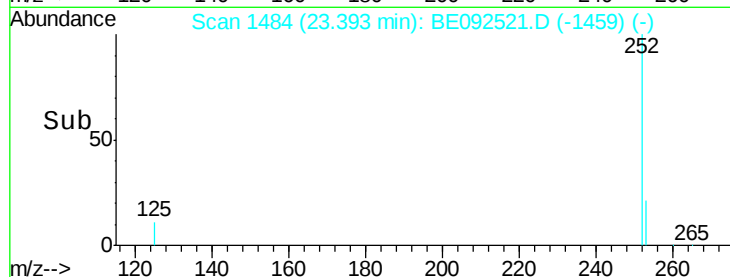
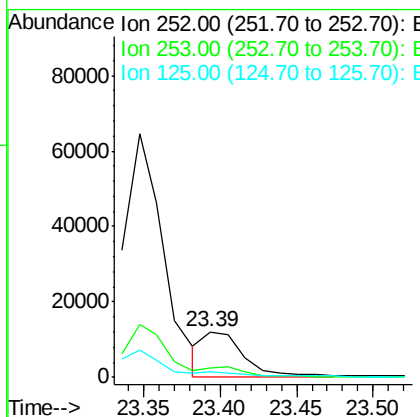
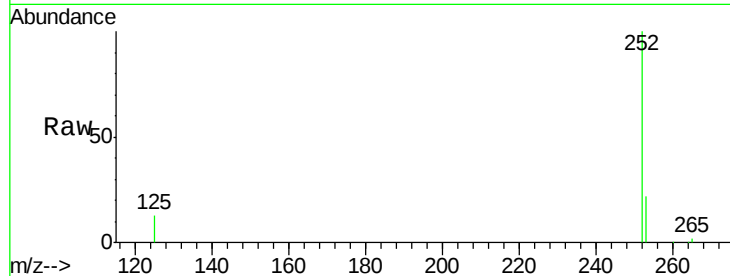
#33
Benzo(k)fluoranthene
Concen: 0.92 ng m
RT: 23.39 min Scan# 1484
Delta R.T. -0.01 min
Lab File: BE092521.D
Acq: 9 Nov 2016 12:30

Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOIL

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.9	20.3	30.5
125	12.6	9.6	14.4

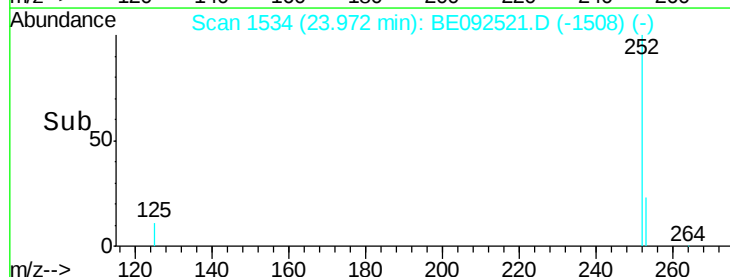
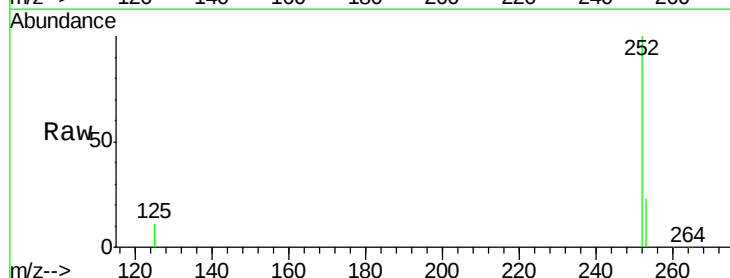
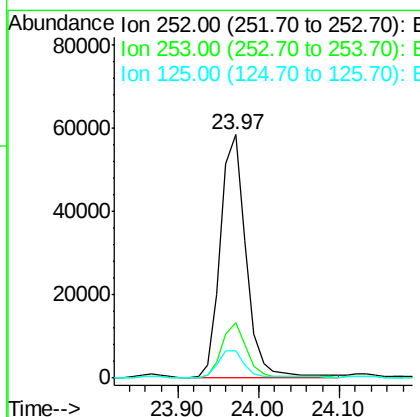
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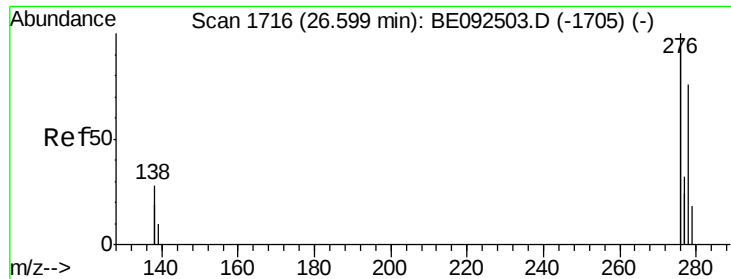
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#34
Benzo(a)pyrene
Concen: 6.30 ng
RT: 23.97 min Scan# 1534
Delta R.T. 0.00 min
Lab File: BE092521.D
Acq: 9 Nov 2016 12:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	19.0	28.6
125	11.0	11.8	17.8#





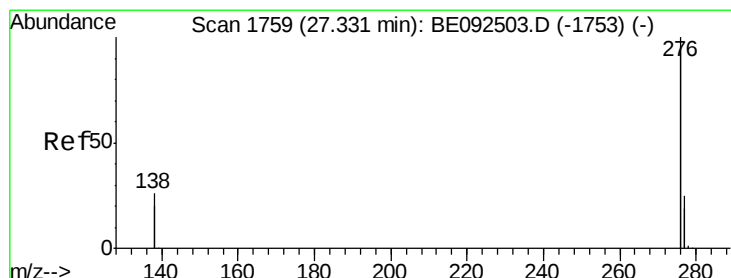
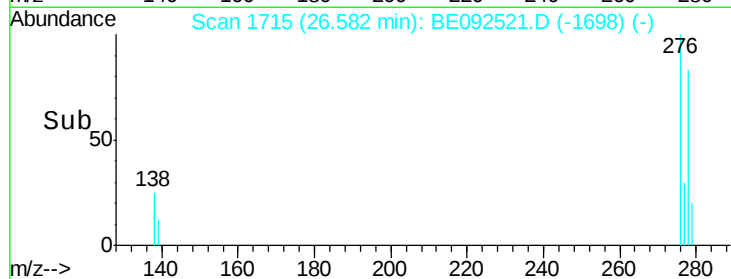
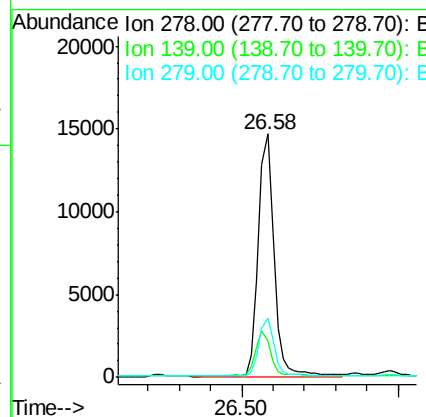
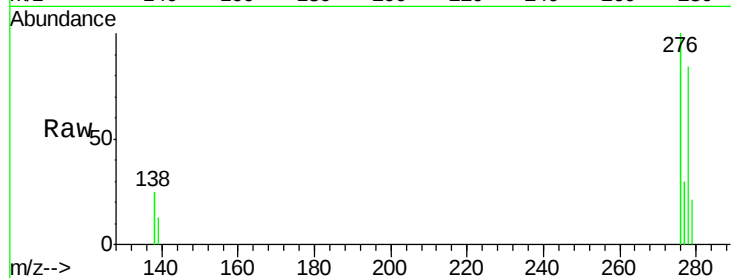
#35
Dibenzo(a,h)anthracene
Concen: 2.64 ng
RT: 26.58 min Scan# 1715
Delta R.T. -0.02 min
Lab File: BE092521.D
Acq: 9 Nov 2016 12:30

Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOIL

Tot Ion	Ratio	Lower	Upper
278	100		
139	15.1	13.8	20.8
279	24.5	21.4	32.2

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#36
Benzo(g,h,i)perylene
Concen: 3.05 ng
RT: 27.31 min Scan# 1758
Delta R.T. -0.02 min
Lab File: BE092521.D
Acq: 9 Nov 2016 12:30

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.8	29.8
138	24.6	19.8	29.6

