

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE040116\
 Data File : BE091582.D
 Acq On : 31 Mar 2016 13:29
 Operator : UM/SJ
 Sample : H1824-04
 Misc : LOQ SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 LOQ-SOIL2016-02

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 4/1/2016 9:39:46 PM

Quant Time: Apr 01 00:57:07 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE033016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 30 18:45:59 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	36981	5.00	ng	0.00
6) Naphthalene-d8	10.59	136	173267	5.00	ng	0.00
10) Acenaphthene-d10	14.42	164	105915	5.00	ng	-0.03
16) Phenanthrene-d10	17.16	188	290170	5.00	ng	-0.01
22) Chrysene-d12	21.31	240	368630	5.00	ng	-0.02
28) Perylene-d12	23.76	264	311869	5.00	ng	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.41	112	66593	6.88	ng	-0.02
5) Phenol-d6	6.97	99	96464	7.37	ng	-0.02
7) Nitrobenzene-d5	8.96	82	44164	3.80	ng	-0.02
11) 2,4,6-Tribromophenol	15.91	330	33120	7.06	ng	-0.01
12) 2-Fluorobiphenyl	13.05	172	123631	4.11	ng	-0.02
24) Terphenyl-d14	19.76	244	194005	4.15	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.35	88	15477	3.54	ng	94
3) n-Nitrosodimethylamine	3.64	42	23583	3.51	ng	97
8) Naphthalene	10.63	128	133305	3.72	ng	96
9) 2-Methylnaphthalene	12.24	142	95653	4.09	ng	# 86
13) Acenaphthylene	14.13	152	171576	4.02	ng	97
14) Acenaphthene	14.49	154	109911	4.20	ng	96
15) Fluorene	15.47	166	136447	4.05	ng	99
17) Hexachlorobenzene	16.46	284	38978	3.65	ng	98
18) Pentachlorophenol	16.79	266	48146	8.03	ng	86
19) Phenanthrene	17.19	178	247498	3.64	ng	99
20) Anthracene	17.29	178	235756	3.76	ng	100
21) Fluoranthene	19.21	202	294640	3.68	ng	98
23) Pyrene	19.57	202	313280	4.17	ng	99
25) Benzo(a)anthracene	21.29	228	364397m	4.21	ng	
26) Chrysene	21.34	228	277534m	3.75	ng	
27) Indeno(1,2,3-cd)pyrene	26.32	276	354197	4.15	ng	99
29) Benzo(b)fluoranthene	23.01	252	333796	4.41	ng	96
30) Benzo(k)fluoranthene	23.06	252	309866	4.23	ng	93
31) Benzo(a)pyrene	23.65	252	304476	4.40	ng	# 94
32) Dibenzo(a,h)anthracene	26.35	278	297130	4.38	ng	97
33) Benzo(g,h,i)perylene	27.11	276	298874	4.31	ng	99

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

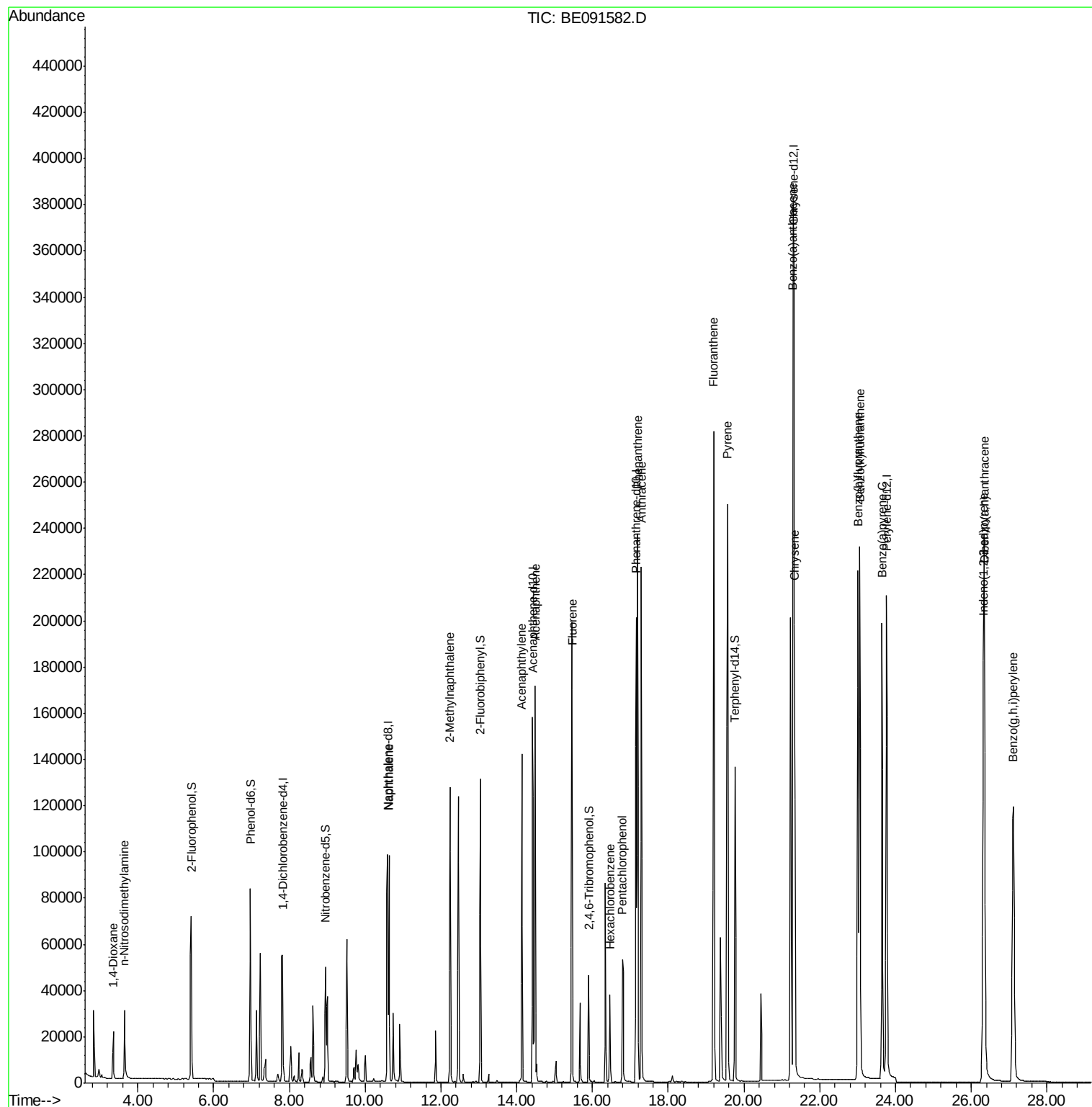
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE040116\
Data File : BE091582.D
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Sample : H1824-04
Misc : LOQ SOIL
ALS Vial : 6 Sample Multiplier: 1

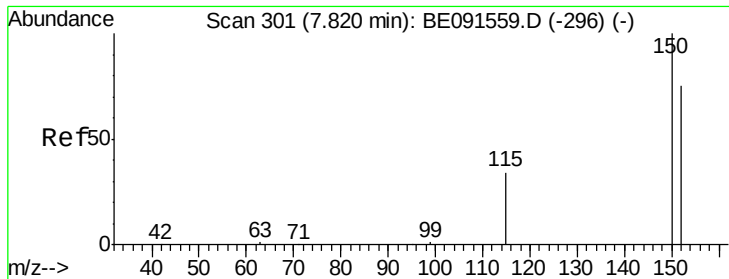
Instrument :
BNA_E
ClientSampleID :
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Quant Time: Apr 01 00:57:07 2016
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE033016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 30 18:45:59 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.82 min Scan# 301

Delta R.T. -0.00 min

Lab File: BE091582.D

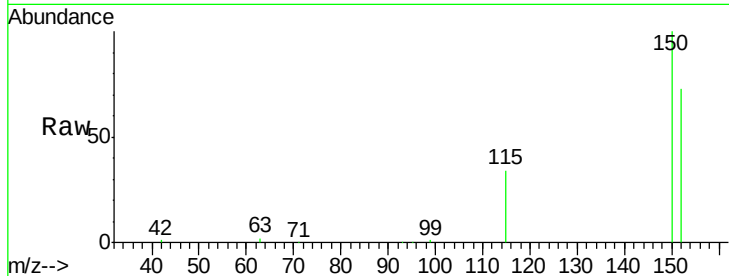
Acq: 31 Mar 2016 13:29

Instrument :

BNA_E

ClientSampleId :

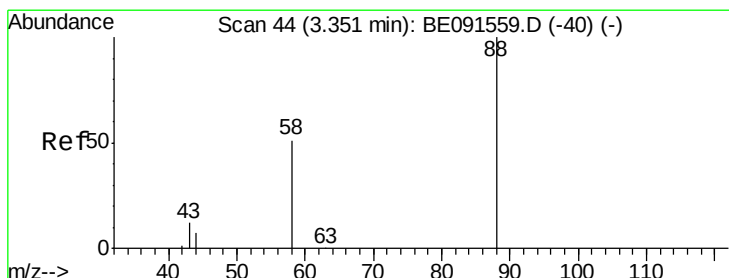
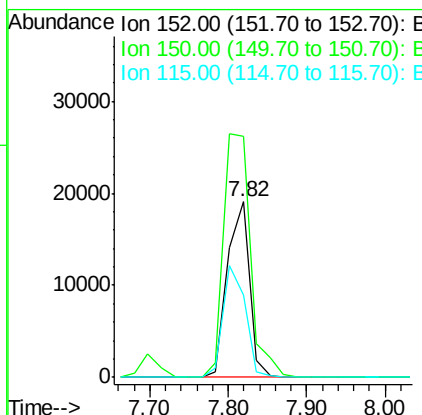
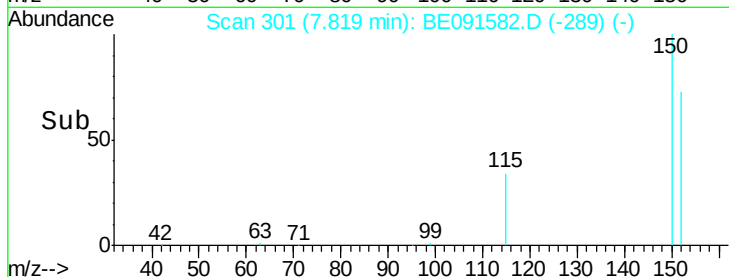
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Tgt Ion:	152	Resp:	36981
Ion Ratio	Lower	Upper	
152	100		
150	137.7	122.2	183.2
115	47.2	45.9	68.9

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#2

1,4-Dioxane

Concen: 3.54 ng

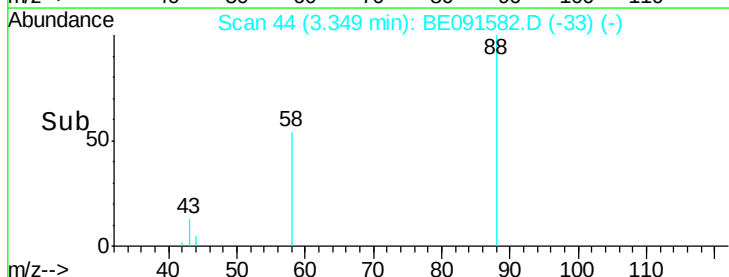
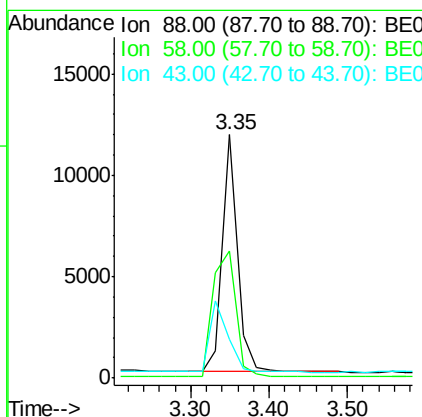
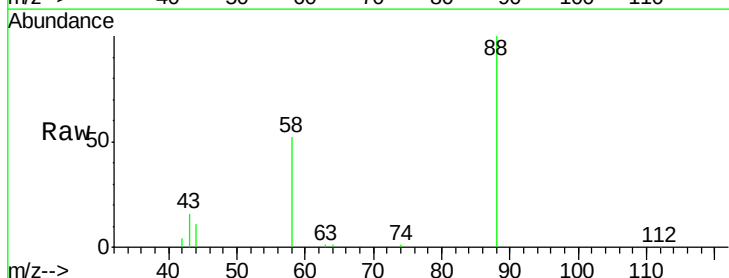
RT: 3.35 min Scan# 44

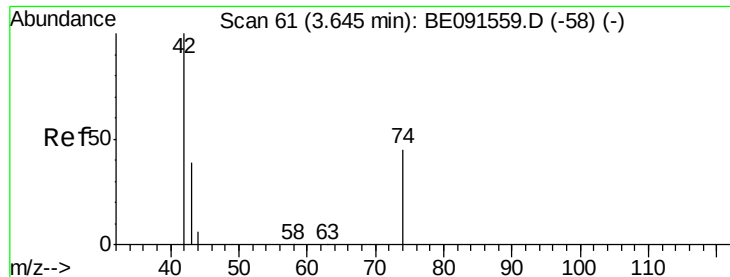
Delta R.T. -0.02 min

Lab File: BE091582.D

Acq: 31 Mar 2016 13:29

Tgt Ion:	88	Resp:	15477
Ion Ratio	Lower	Upper	
88	100		
58	81.0	61.0	91.6
43	35.8	25.4	38.2





#3

n-Nitrosodimethylamine

Concen: 3.51 ng

RT: 3.64 min Scan# 61

Delta R.T. -0.03 min

Lab File: BE091582.D

Acq: 31 Mar 2016 13:29

Instrument :

BNA_E

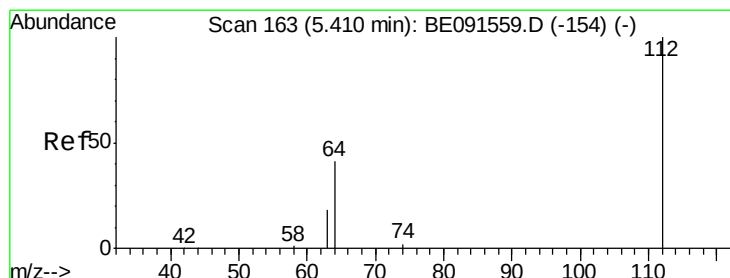
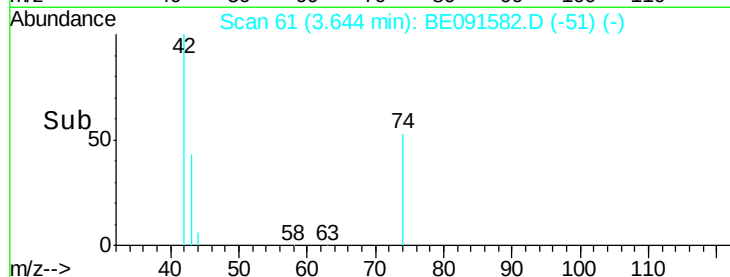
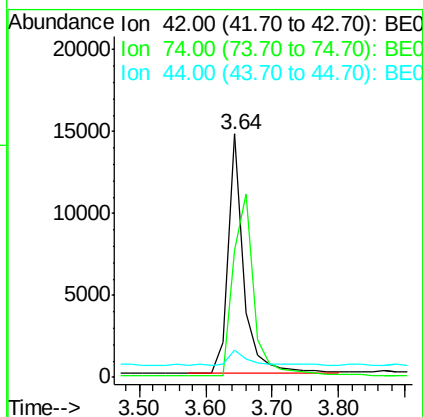
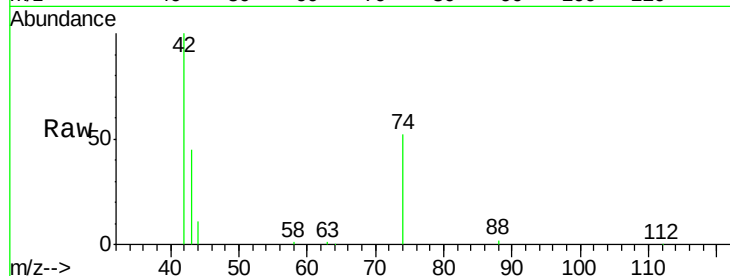
ClientSampleId :

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Tgt Ion:	42	Resp:	23583
Ion	Ratio	Lower	Upper
42	100		
74	102.3	84.3	126.5
44	6.8	6.7	10.1

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#4

2-Fluorophenol

Concen: 6.88 ng

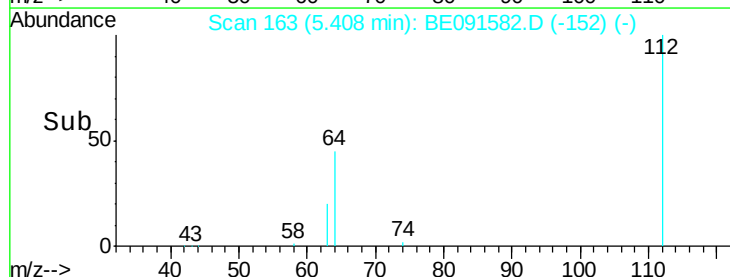
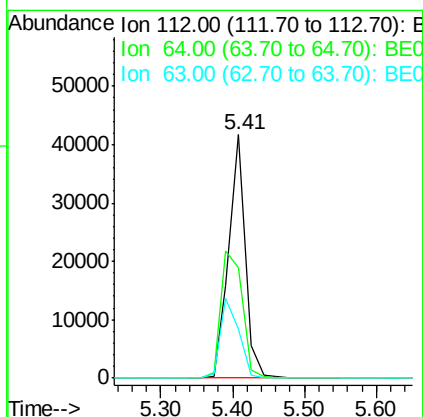
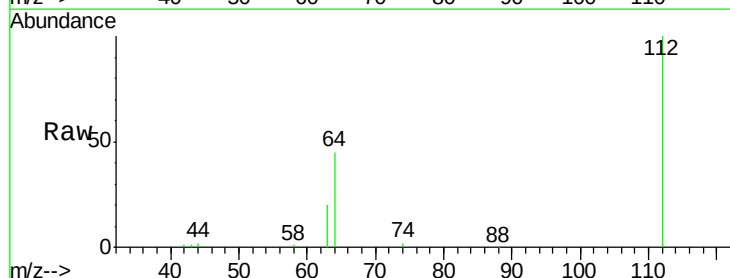
RT: 5.41 min Scan# 163

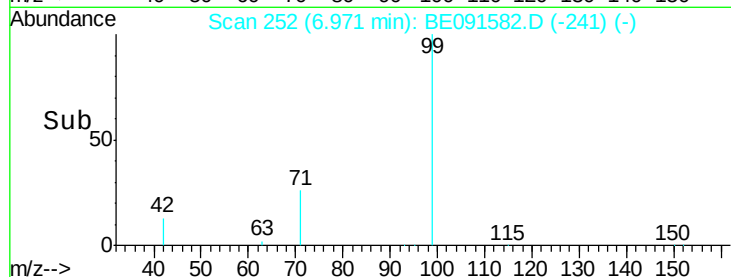
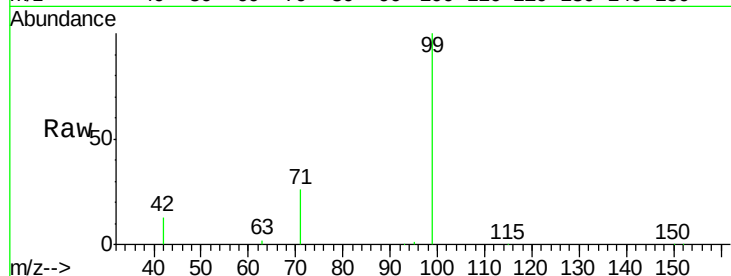
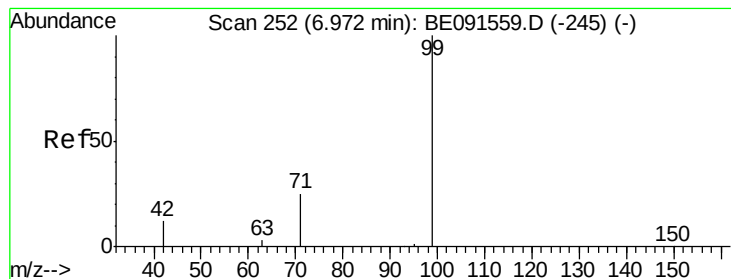
Delta R.T. -0.02 min

Lab File: BE091582.D

Acq: 31 Mar 2016 13:29

Tgt Ion:	112	Resp:	66593
Ion	Ratio	Lower	Upper
112	100		
64	67.5	53.3	79.9
63	36.4	29.8	44.8





#5

Phenol-d6

Concen: 7.37 ng

RT: 6.97 min Scan# 252

Delta R.T. -0.02 min

Lab File: BE091582.D

Acq: 31 Mar 2016 13:29

Tgt Ion:	99	Resp:	96464
Ion Ratio	Lower	Upper	
99	100		
42	25.5	20.6	30.8
71	35.9	29.0	43.4

Instrument :

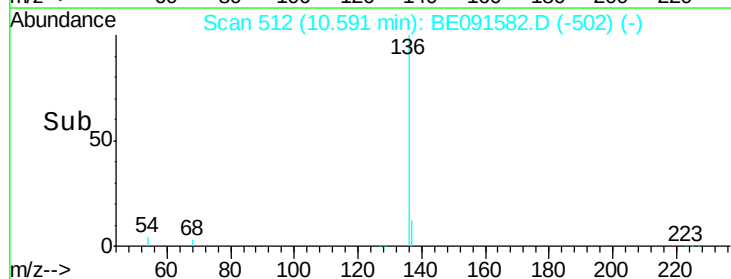
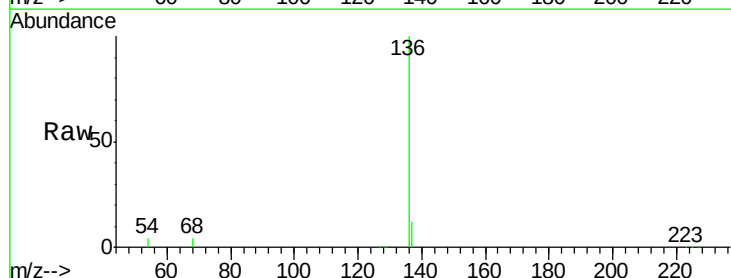
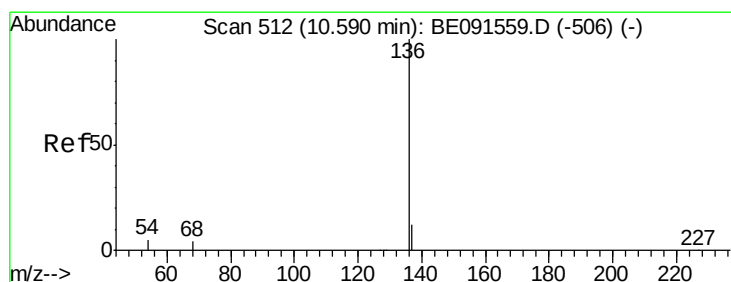
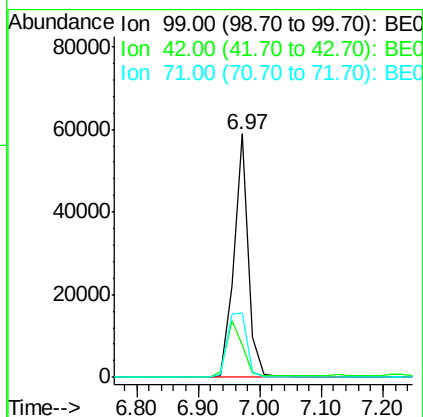
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ClientSampleId :

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#6

Naphthalene-d8

Concen: 5.00 ng

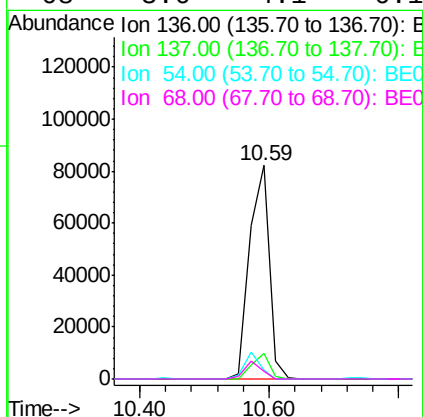
RT: 10.59 min Scan# 512

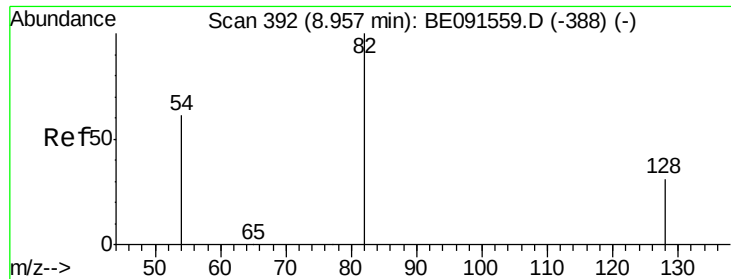
Delta R.T. -0.00 min

Lab File: BE091582.D

Acq: 31 Mar 2016 13:29

Tgt Ion:	136	Resp:	173267
Ion Ratio	Lower	Upper	
136	100		
137	11.9	8.8	13.2
54	4.2	5.2	7.8#
68	3.6	4.1	6.1#





#7

Nitrobenzene-d5

Concen: 3.80 ng

RT: 8.96 min Scan# 392

Delta R.T. -0.02 min

Lab File: BE091582.D

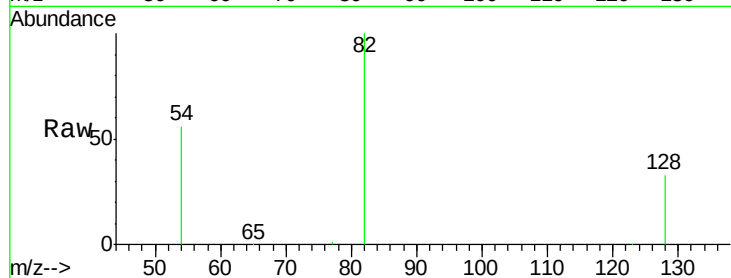
Acq: 31 Mar 2016 13:29

Instrument :

BNA_E

ClientSampleId :

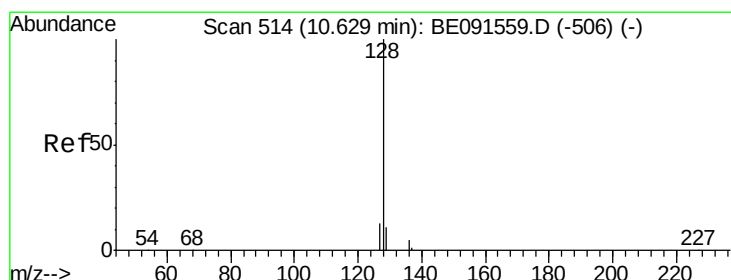
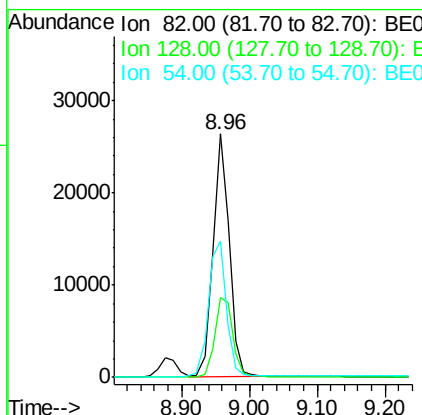
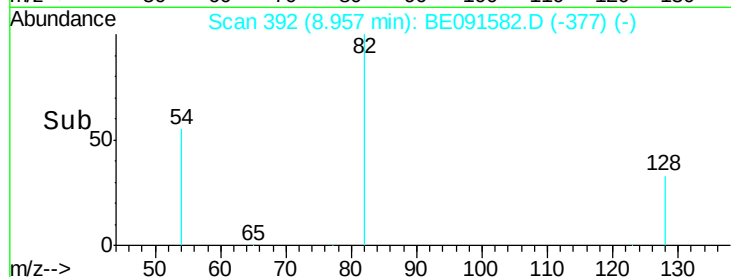
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Tgt Ion:	82	Resp:	44164
Ion Ratio	Lower	Upper	
82	100		
128	33.0	23.5	35.3
54	55.7	52.4	78.6

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#8

Naphthalene

Concen: 3.72 ng

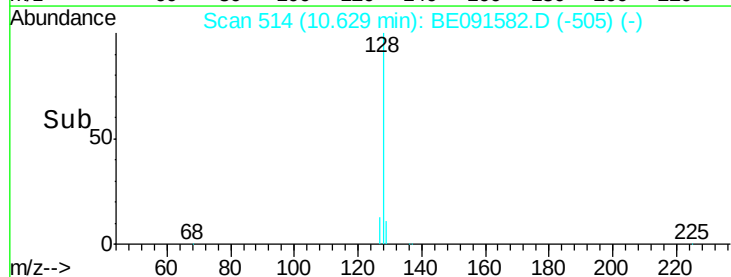
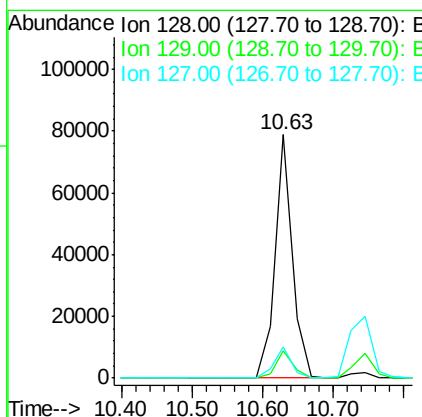
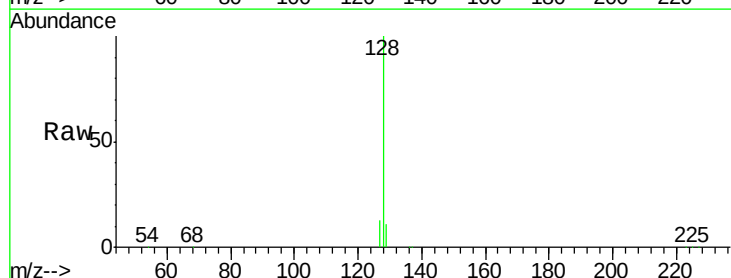
RT: 10.63 min Scan# 514

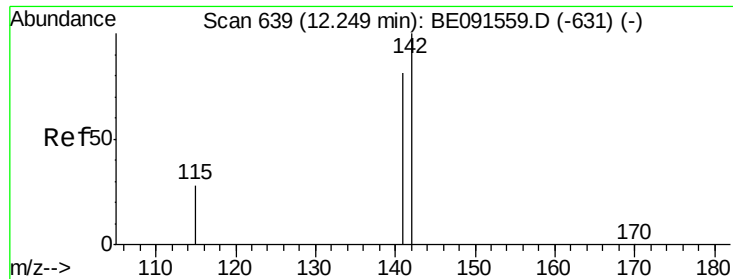
Delta R.T. -0.02 min

Lab File: BE091582.D

Acq: 31 Mar 2016 13:29

Tgt Ion:	128	Resp:	133305
Ion Ratio	Lower	Upper	
128	100		
129	11.0	8.2	12.2
127	13.0	11.8	17.8





#9

2-Methylnaphthalene

Concen: 4.09 ng

RT: 12.24 min Scan# 638

Delta R.T. -0.02 min

Lab File: BE091582.D

Acq: 31 Mar 2016 13:29

Instrument :

BNA_E

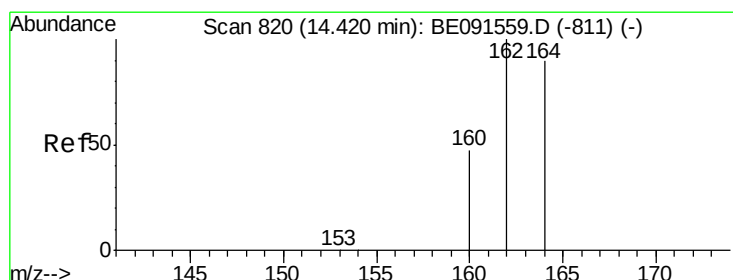
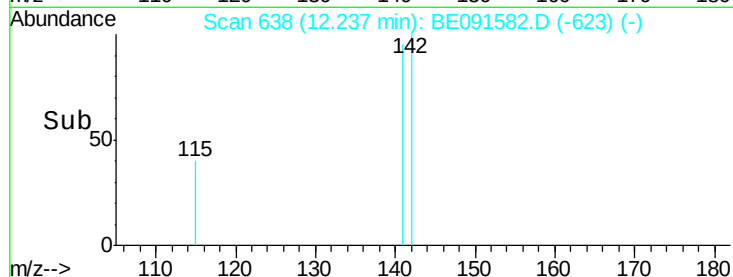
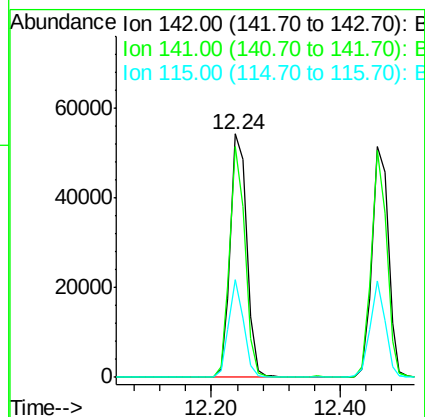
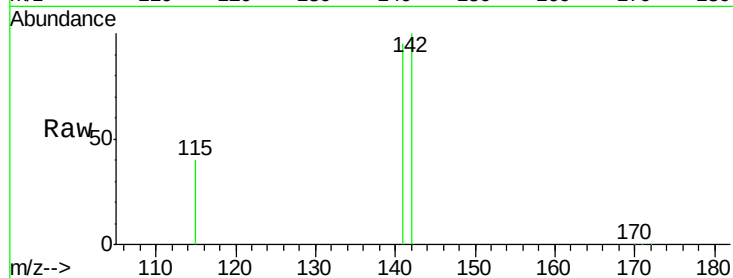
ClientSampleId :

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Tgt Ion:	142	Resp:	95653
Ion Ratio	Lower	Upper	
142	100		
141	95.0	66.9	100.3
115	40.3	25.1	37.7

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#10

Acenaphthene-d10

Concen: 5.00 ng

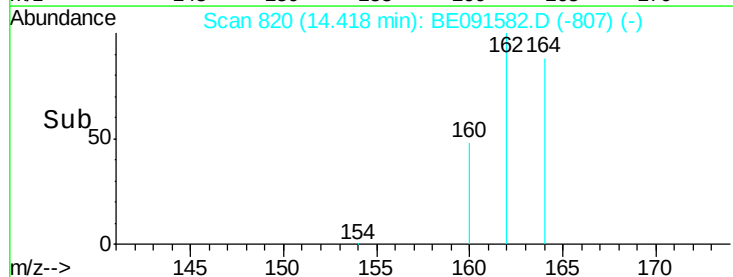
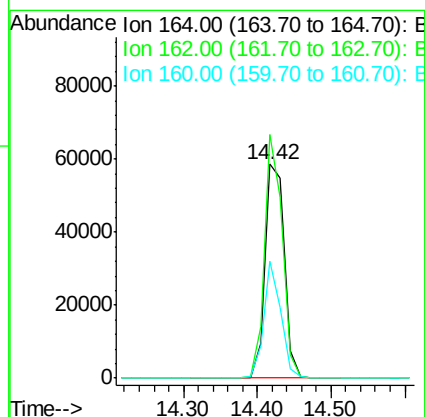
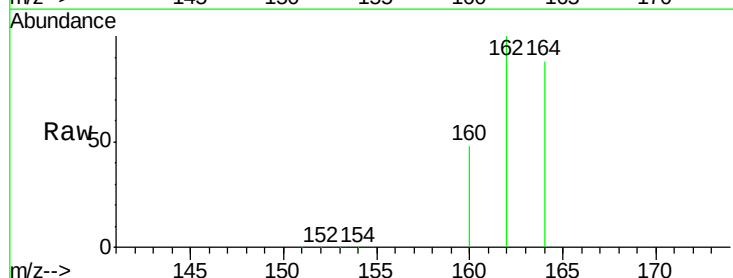
RT: 14.42 min Scan# 820

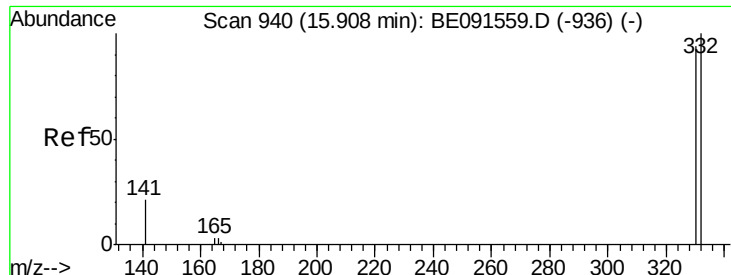
Delta R.T. -0.03 min

Lab File: BE091582.D

Acq: 31 Mar 2016 13:29

Tgt Ion:	164	Resp:	105915
Ion Ratio	Lower	Upper	
164	100		
162	113.7	84.4	126.6
160	54.8	37.7	56.5





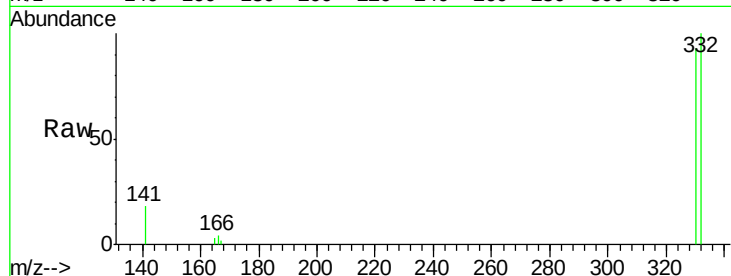
#11
 2,4,6-Tribromophenol
 Concen: 7.06 ng
 RT: 15.91 min Scan# 940
 Delta R.T. -0.01 min
 Lab File: BE091582.D
 Acq: 31 Mar 2016 13:29

Instrument :
 BNA_E
 ClientSampleId :
 LOQ-SOIL2016-02

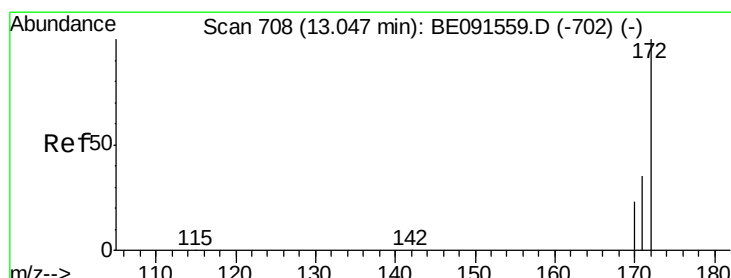
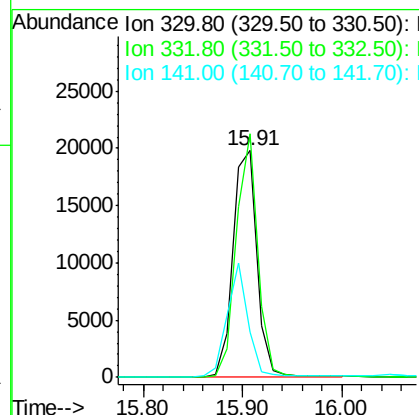
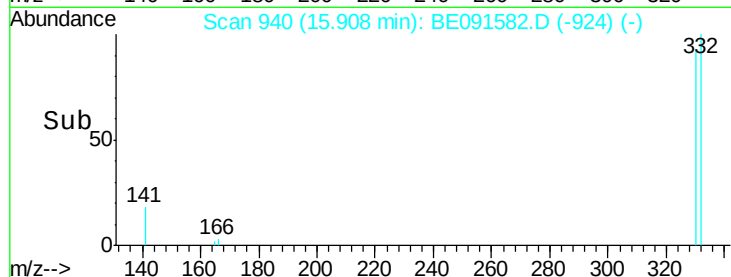
Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.4	79.2	118.8	
141	43.1	28.1	42.1#	

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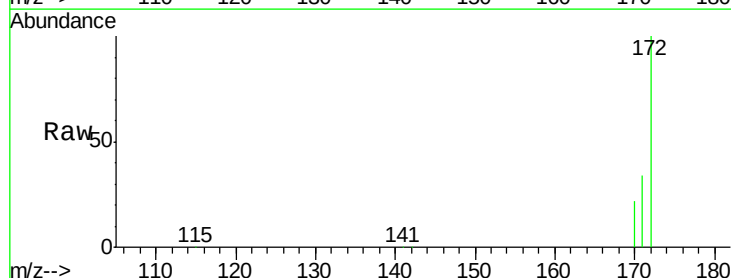


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

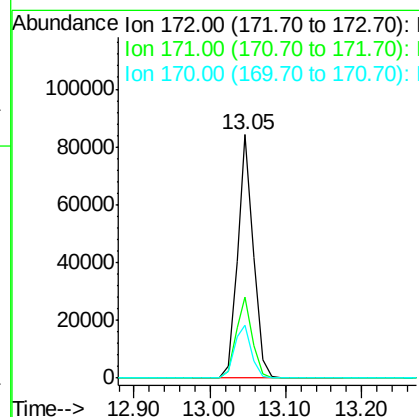
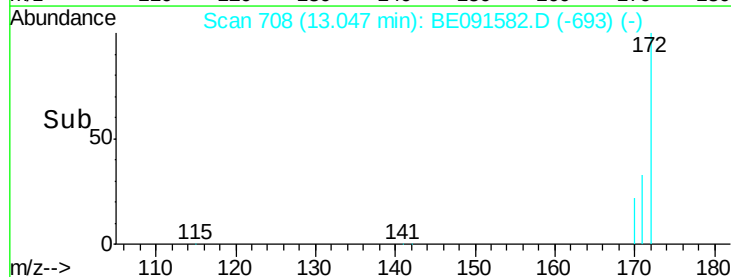


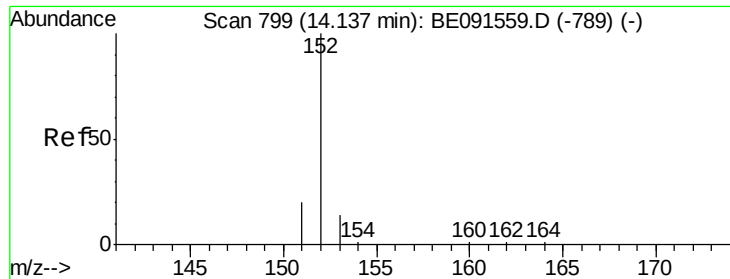
#12
 2-Fluorobiphenyl
 Concen: 4.11 ng
 RT: 13.05 min Scan# 708
 Delta R.T. -0.02 min
 Lab File: BE091582.D
 Acq: 31 Mar 2016 13:29

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	33.5	29.8	44.8	
170	21.9	21.4	32.2	



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#13

Acenaphthylene

Concen: 4.02 ng

RT: 14.13 min Scan# 799

Delta R.T. -0.01 min

Lab File: BE091582.D

Acq: 31 Mar 2016 13:29

Instrument :

BNA_E

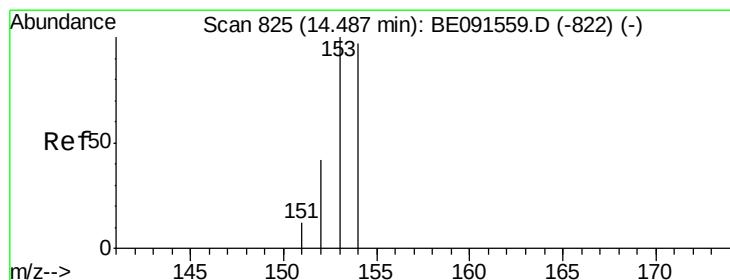
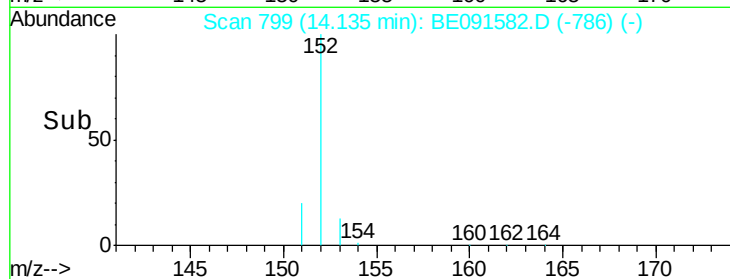
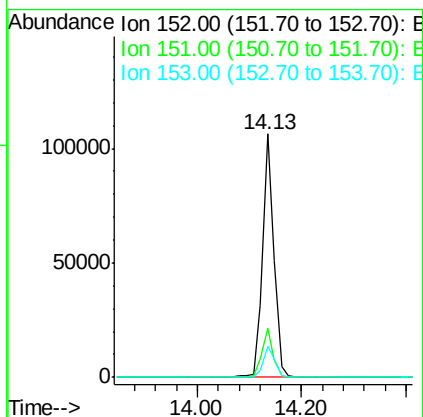
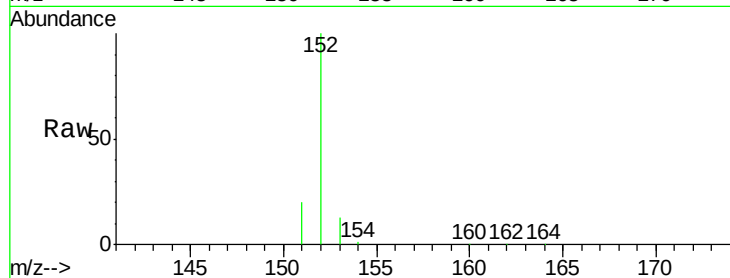
ClientSampleId :

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Tgt Ion	Ratio	Lower	Upper
152	100		
151	18.2	16.3	24.5
153	13.5	11.1	16.7

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#14

Acenaphthene

Concen: 4.20 ng

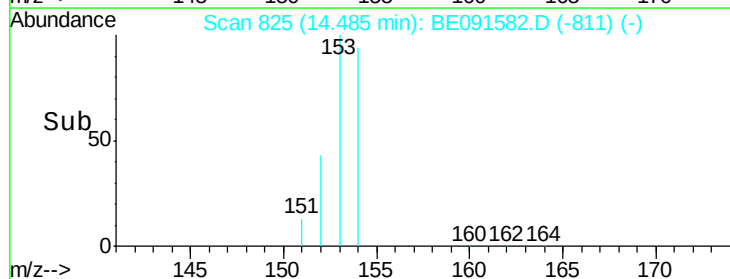
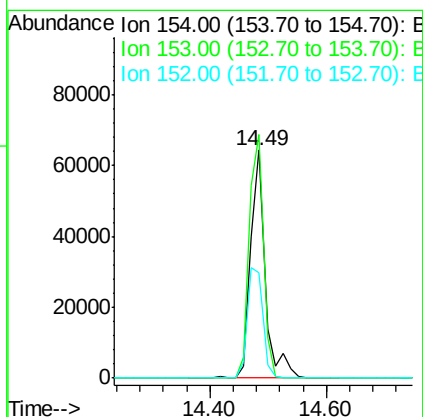
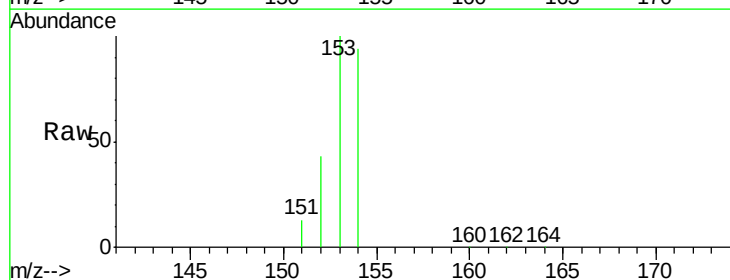
RT: 14.49 min Scan# 825

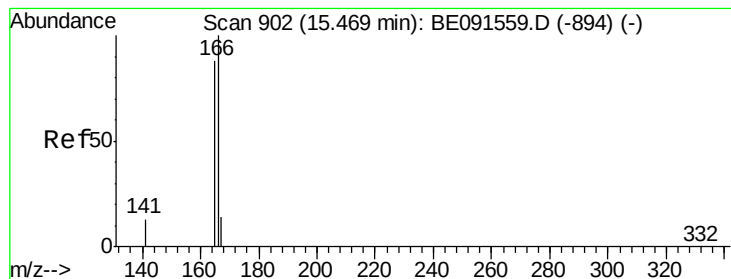
Delta R.T. -0.01 min

Lab File: BE091582.D

Acq: 31 Mar 2016 13:29

Tgt Ion	Ratio	Lower	Upper
154	100		
153	103.8	87.3	130.9
152	51.2	42.9	64.3





#15

Fluorene

Concen: 4.05 ng

RT: 15.47 min Scan# 902

Delta R.T. -0.01 min

Lab File: BE091582.D

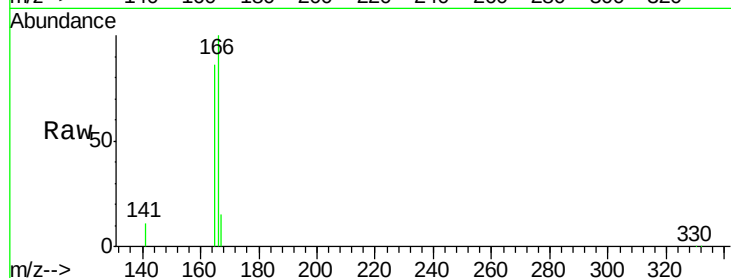
Acq: 31 Mar 2016 13:29

Instrument :

BNA_E

ClientSampleId :

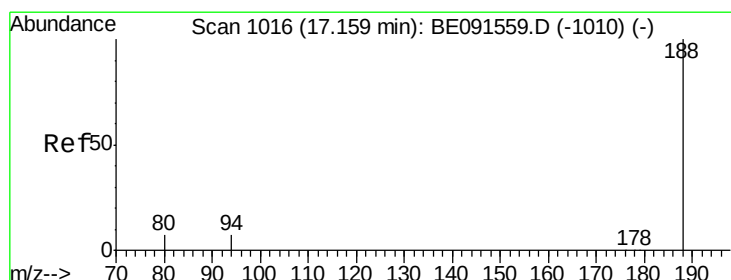
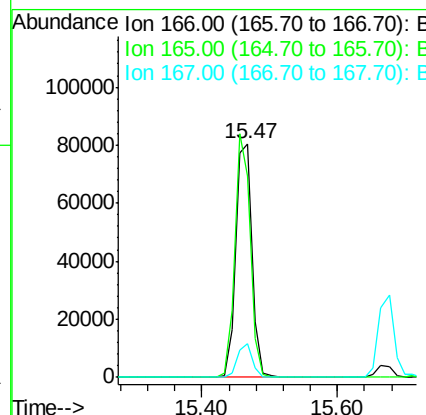
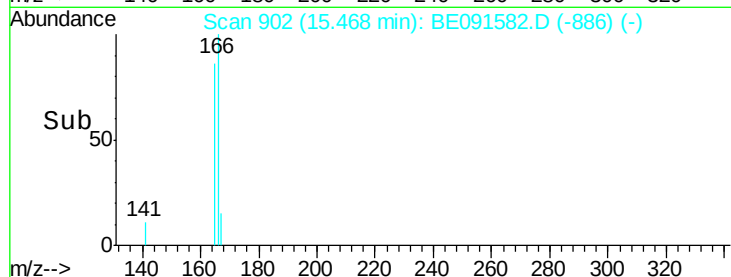
LOQ-SOIL2016-02



Tgt Ion:	166	Resp:	136447
Ion Ratio	Lower	Upper	
166	100		
165	98.1	79.2	118.8
167	13.5	10.8	16.2

Manual Integrations
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#16

Phenanthrene-d10

Concen: 5.00 ng

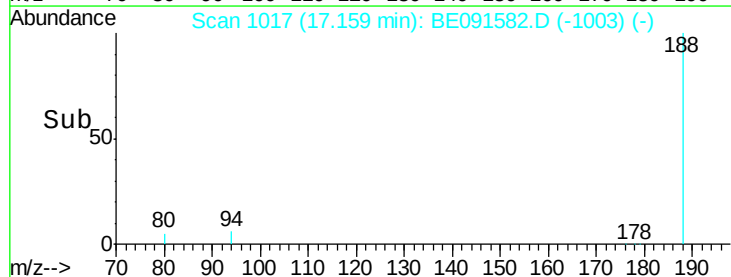
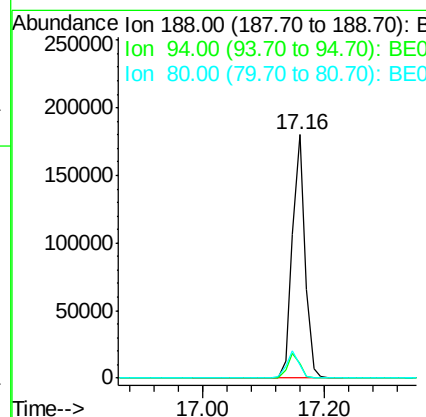
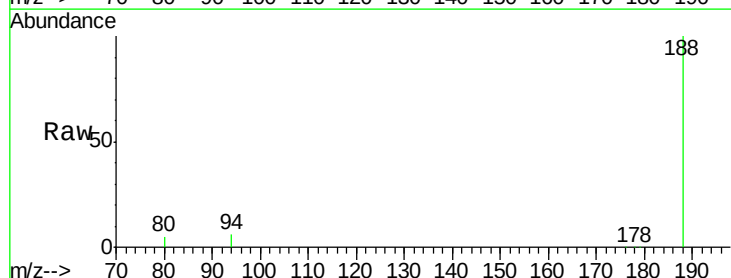
RT: 17.16 min Scan# 1017

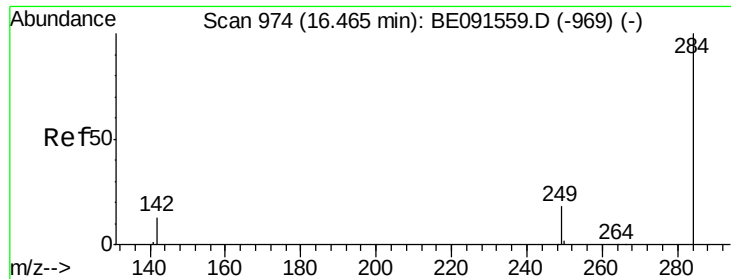
Delta R.T. -0.01 min

Lab File: BE091582.D

Acq: 31 Mar 2016 13:29

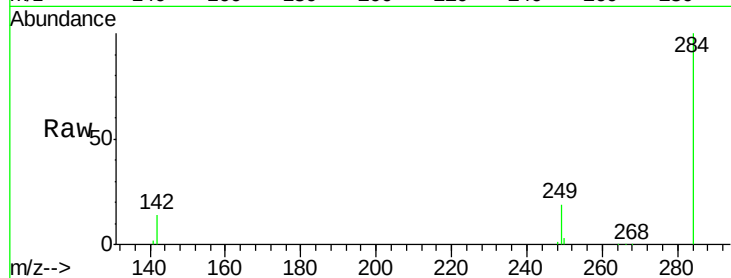
Tgt Ion:	188	Resp:	290170
Ion Ratio	Lower	Upper	
188	100		
94	6.1	5.4	8.2
80	5.4	5.0	7.4





#17
Hexachlorobenzene
Concen: 3.65 ng
RT: 16.46 min Scan# 974
Delta R.T. -0.02 min
Lab File: BE091582.D
Acq: 31 Mar 2016 13:29

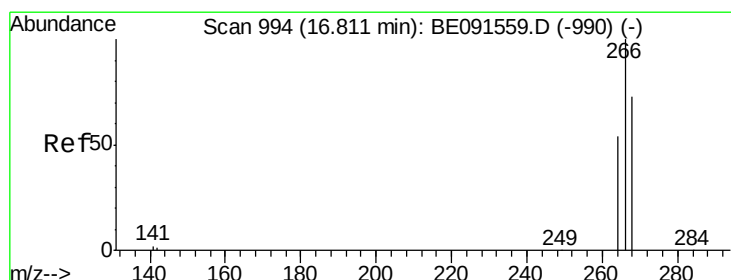
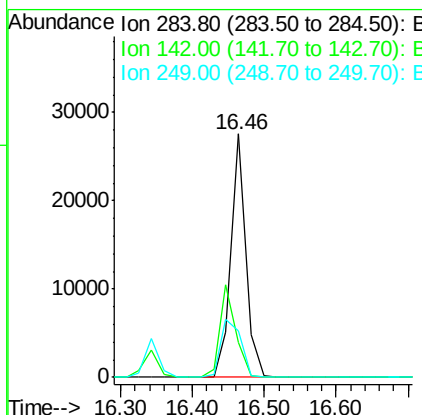
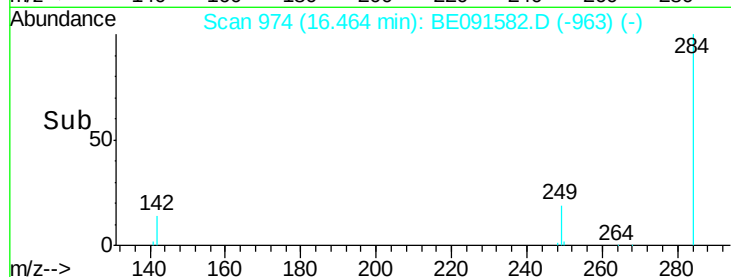
Instrument :
BNA_E
ClientSampleId :
LOQ-SOIL2016-02



Tgt Ion: 284 Resp: 38978
Ion Ratio Lower Upper
284 100
142 40.8 31.0 46.4
249 32.2 25.8 38.8

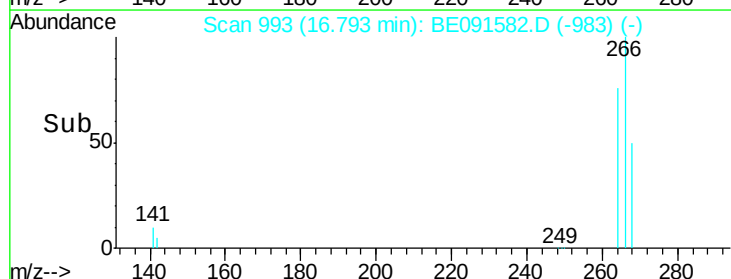
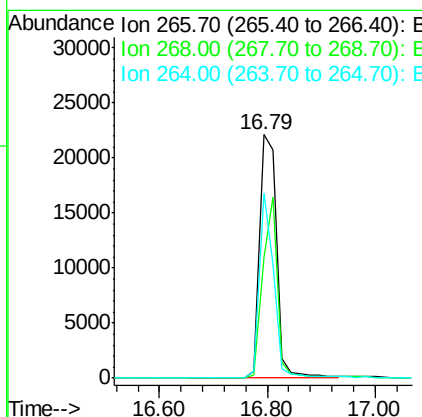
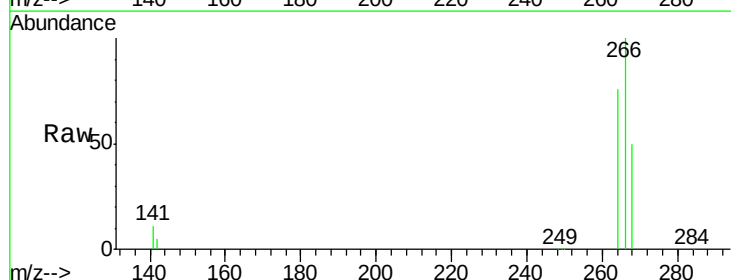
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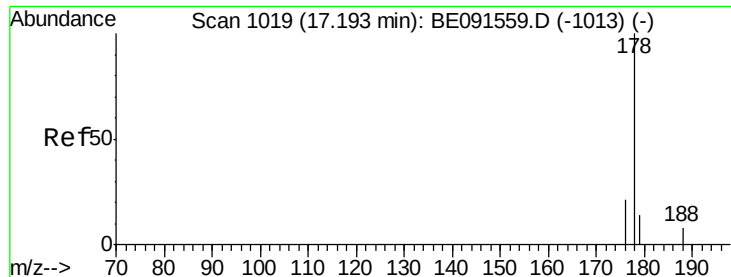
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#18
Pentachlorophenol
Concen: 8.03 ng
RT: 16.79 min Scan# 993
Delta R.T. -0.03 min
Lab File: BE091582.D
Acq: 31 Mar 2016 13:29

Tgt Ion: 266 Resp: 48146
Ion Ratio Lower Upper
266 100
268 49.7 48.2 72.2
264 75.8 52.1 78.1





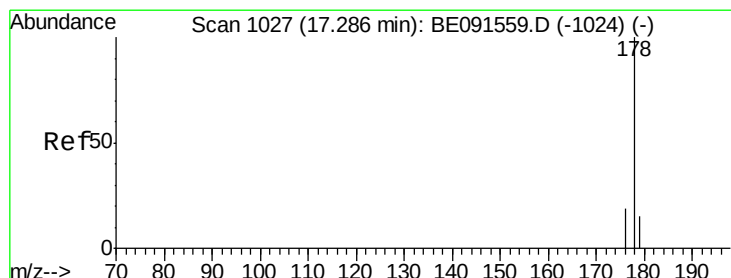
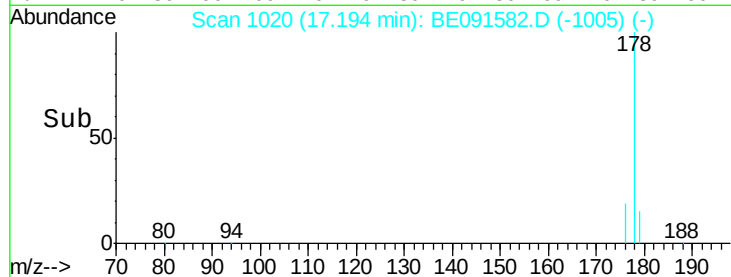
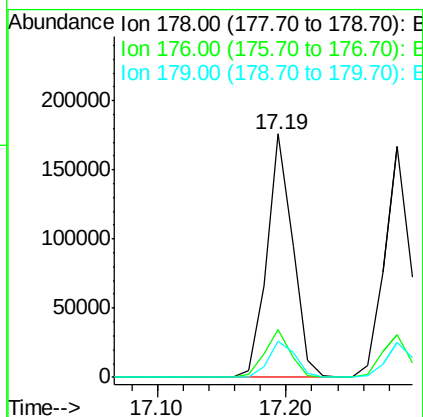
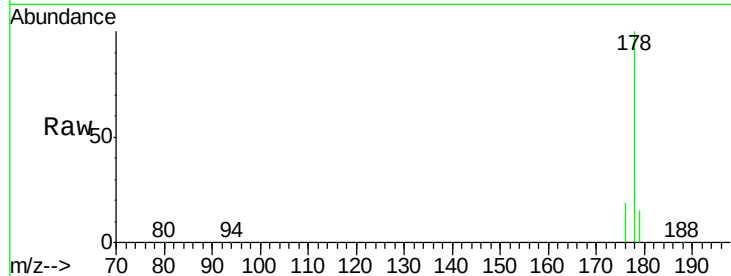
#19
Phenanthrene
Concen: 3.64 ng
RT: 17.19 min Scan# 1020
Delta R.T. -0.01 min
Lab File: BE091582.D
Acq: 31 Mar 2016 13:29

Instrument :
BNA_E
ClientSampleId :
LOQ-SOIL2016-02

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.5	23.3
179	15.5	13.1	19.7

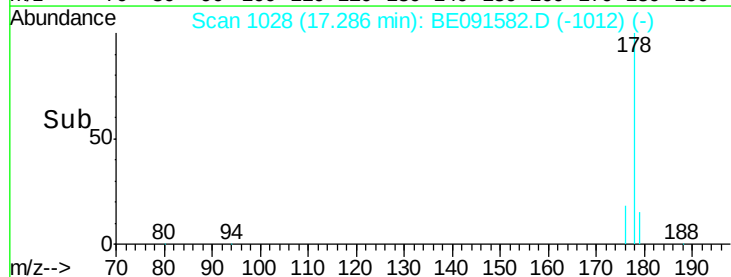
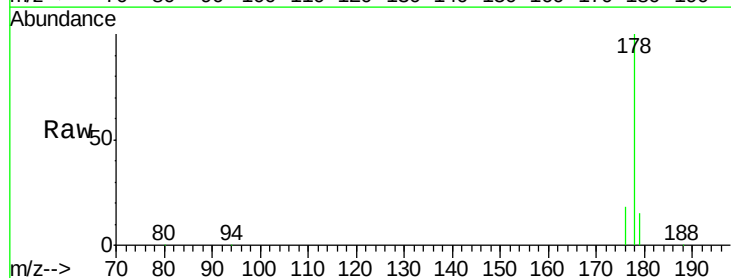
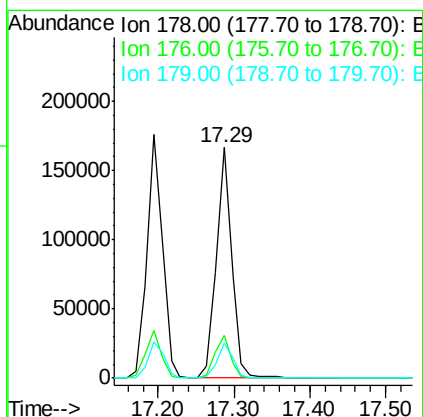
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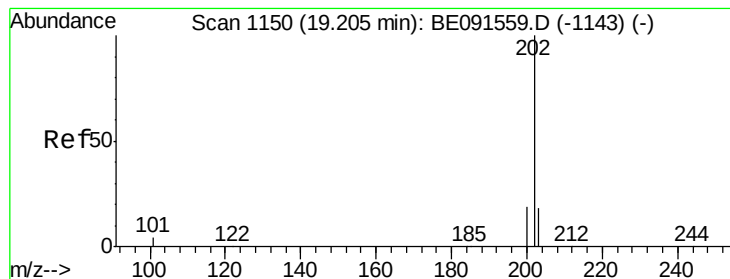
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#20
Anthracene
Concen: 3.76 ng
RT: 17.29 min Scan# 1028
Delta R.T. -0.01 min
Lab File: BE091582.D
Acq: 31 Mar 2016 13:29

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.9	22.3
179	15.2	12.2	18.4





#21

Fluoranthene

Concen: 3.68 ng

RT: 19.21 min Scan# 1151

Delta R.T. -0.02 min

Lab File: BE091582.D

Acq: 31 Mar 2016 13:29

Instrument :

BNA_E

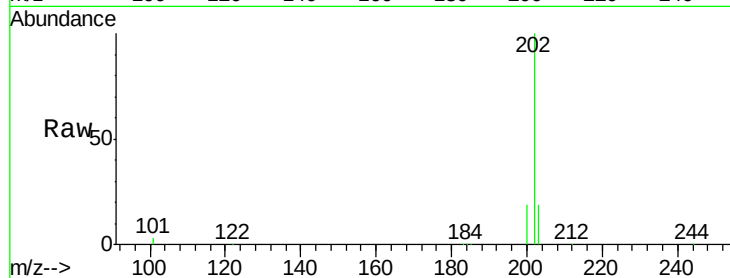
ClientSampleId :

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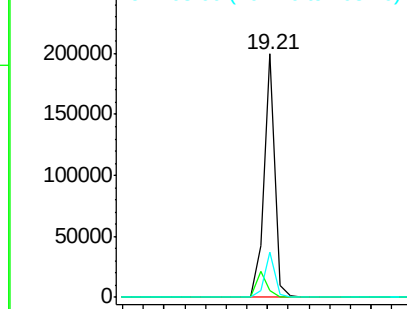
Tgt	Ion	202	Resp:	294640
Ion	Ratio	Lower	Upper	
202	100			
101	11.3	8.3	12.5	
203	18.1	13.9	20.9	

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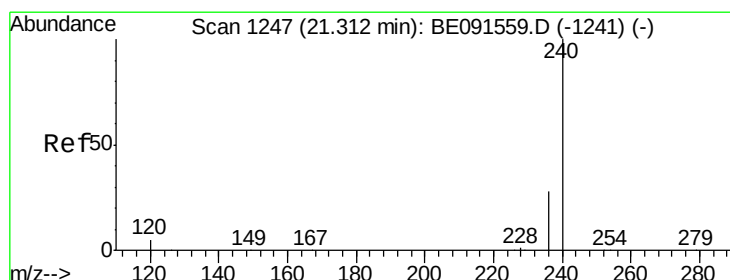
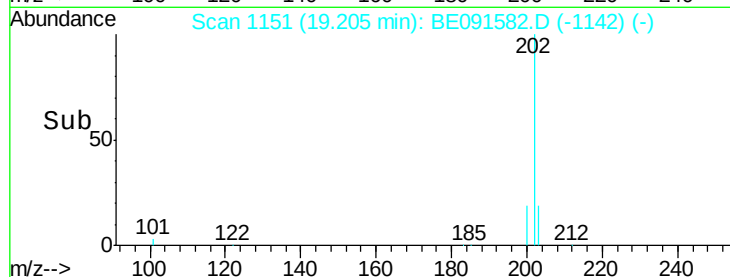
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



Time-->



#22

Chrysene-d12

Concen: 5.00 ng

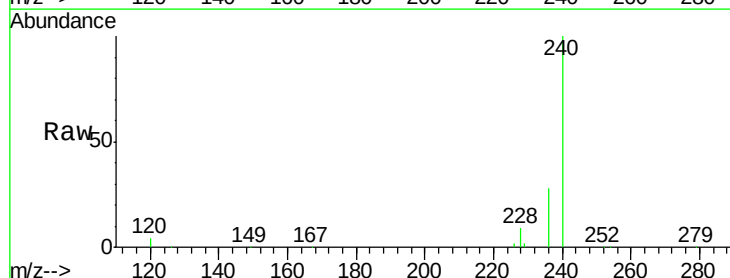
RT: 21.31 min Scan# 1248

Delta R.T. -0.02 min

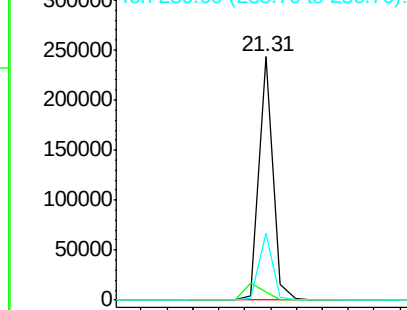
Lab File: BE091582.D

Acq: 31 Mar 2016 13:29

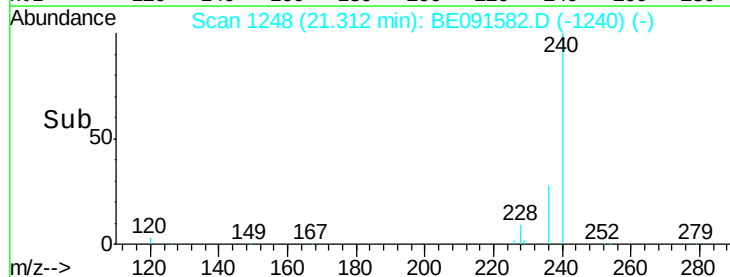
Tgt	Ion	240	Resp:	368630
Ion	Ratio	Lower	Upper	
240	100			
120	3.5	4.0	6.0#	
236	27.6	23.0	34.4	

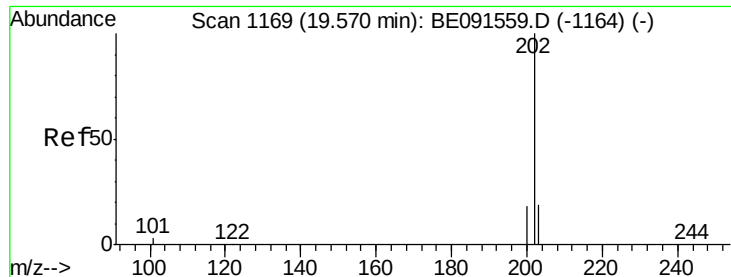


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



Time-->





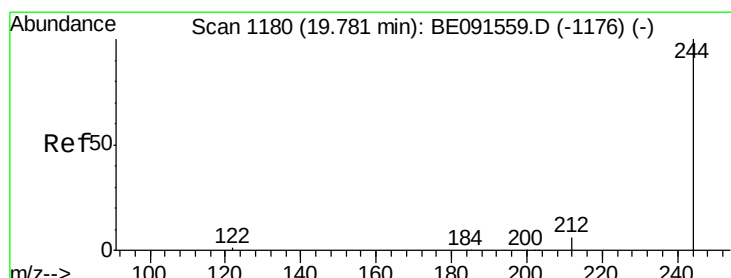
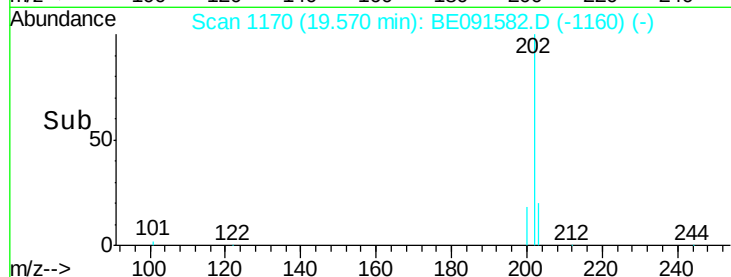
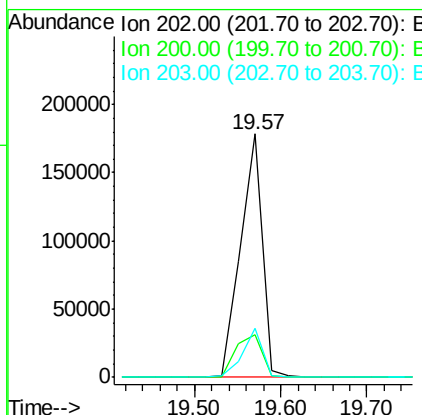
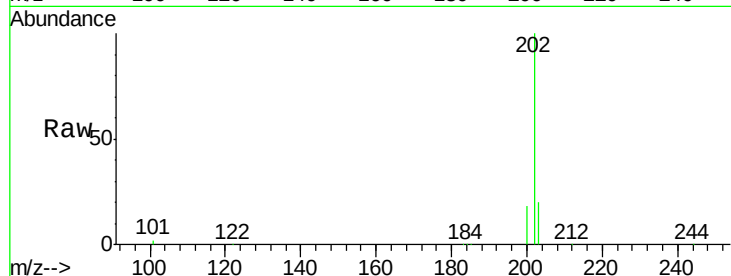
#23
 Pyrene
 Concen: 4.17 ng
 RT: 19.57 min Scan# 1170
 Delta R.T. -0.00 min
 Lab File: BE091582.D
 Acq: 31 Mar 2016 13:29

Instrument :
 BNA_E
 ClientSampleId :
 LOQ-SOIL2016-02

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	313280		
200	21.1	16.4	24.6	
203	18.4	14.6	21.8	

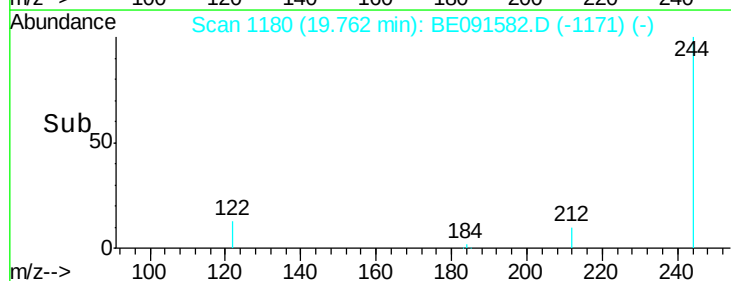
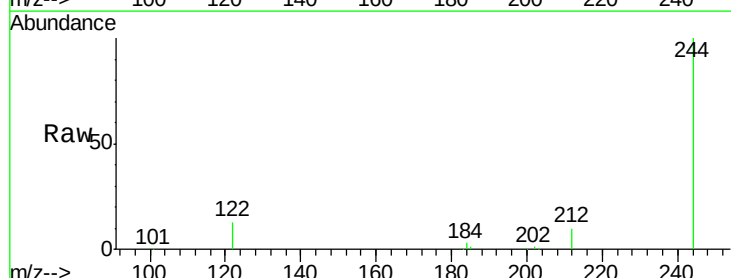
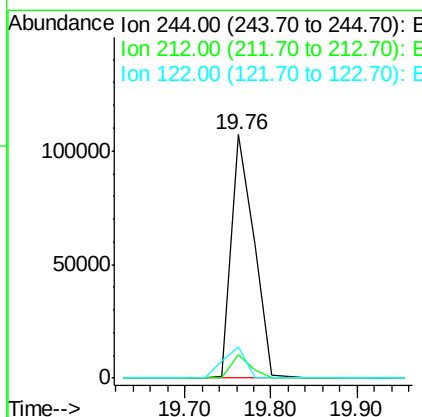
Manual Integrations
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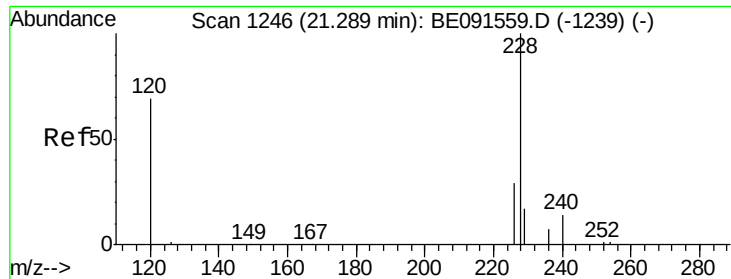
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 4/1/2016 9:39:46 PM



#24
 Terphenyl-d14
 Concen: 4.15 ng
 RT: 19.76 min Scan# 1180
 Delta R.T. -0.02 min
 Lab File: BE091582.D
 Acq: 31 Mar 2016 13:29

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	194005		
212	9.9	5.8	8.8#	
122	12.9	1.8	2.8#	





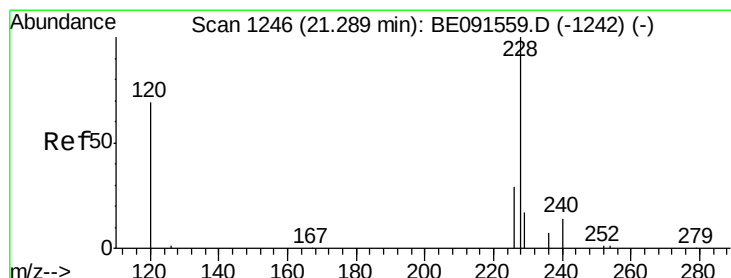
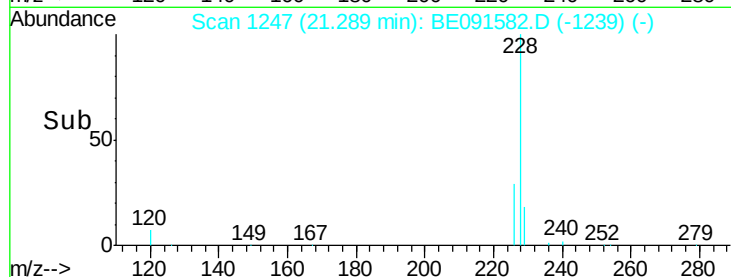
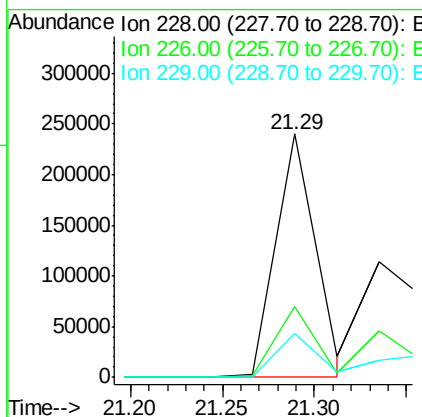
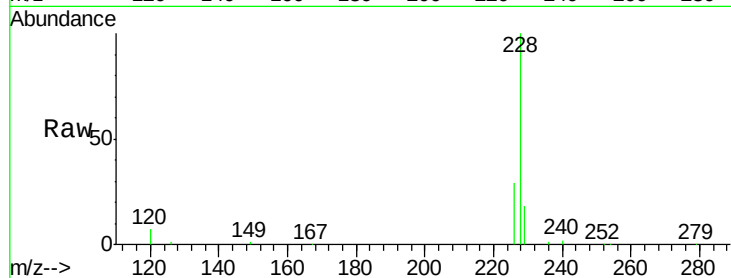
#25
Benzo(a)anthracene
Concen: 4.21 ng m
RT: 21.29 min Scan# 1247
Delta R.T. -0.02 min
Lab File: BE091582.D
Acq: 31 Mar 2016 13:29

Instrument :
BNA_E
ClientSampleId :
LOQ-SOIL2016-02

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.9	24.0	36.0
229	18.3	13.8	20.6

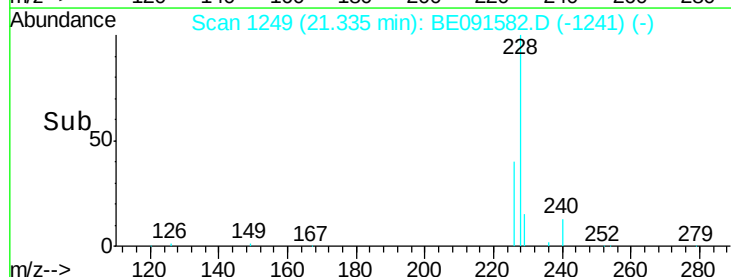
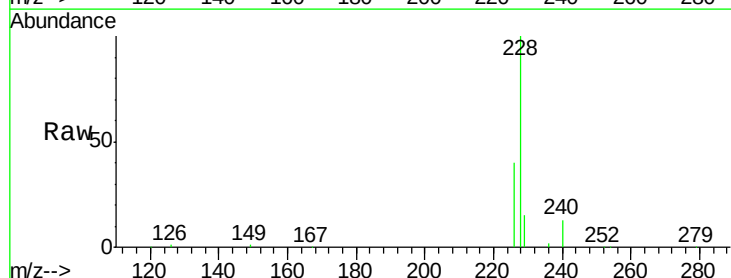
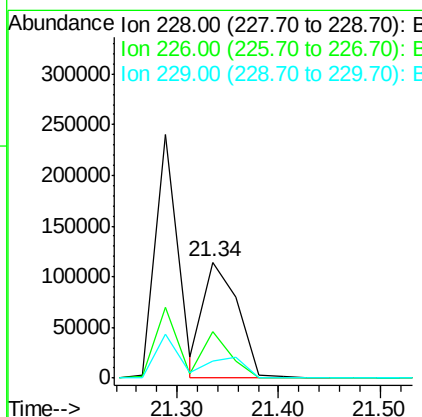
Manual Integrations
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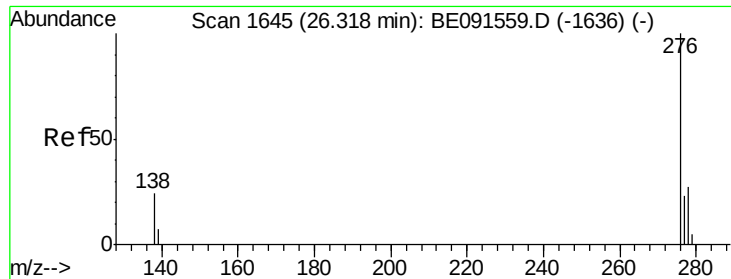
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#26
Chrysene
Concen: 3.75 ng m
RT: 21.34 min Scan# 1249
Delta R.T. -0.02 min
Lab File: BE091582.D
Acq: 31 Mar 2016 13:29

Tgt Ion	Ratio	Lower	Upper
228	100		
226	39.7	18.9	28.3#
229	14.9	19.1	28.7#





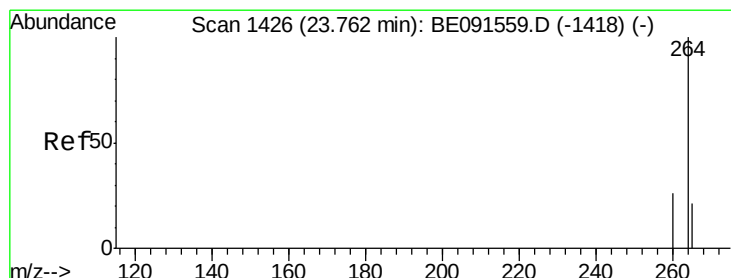
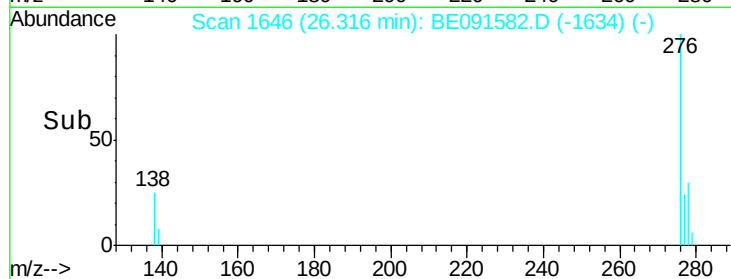
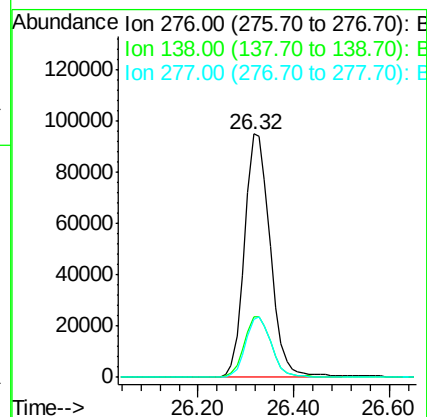
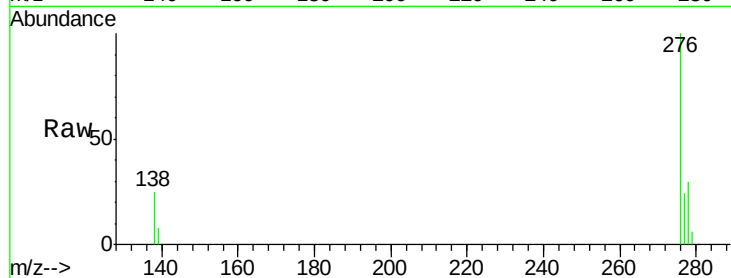
#27
 Indeno(1,2,3-cd)pyrene
 Concen: 4.15 ng
 RT: 26.32 min Scan# 1646
 Delta R.T. -0.06 min
 Lab File: BE091582.D
 Acq: 31 Mar 2016 13:29

Instrument :
 BNA_E
 ClientSampleId :
 LOQ-SOIL2016-02

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	26.1	20.2	30.4
277	24.8	19.8	29.8

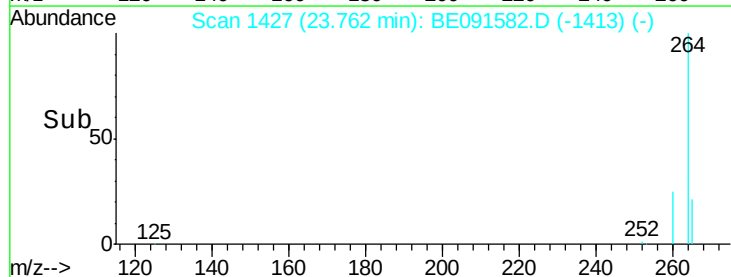
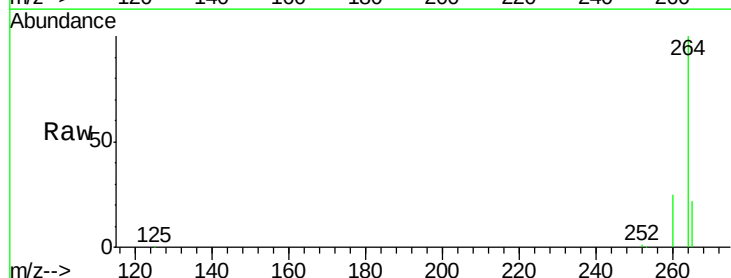
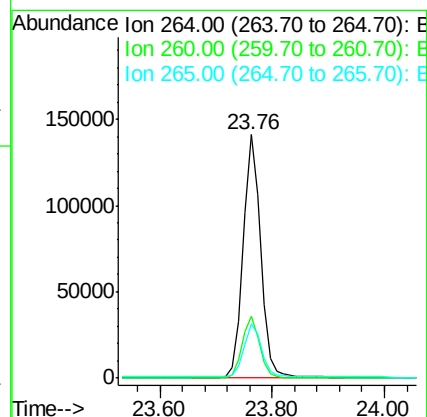
Manual Integrations
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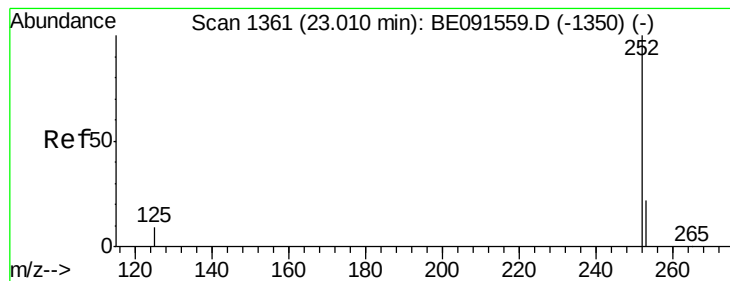
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#28
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.76 min Scan# 1427
 Delta R.T. -0.03 min
 Lab File: BE091582.D
 Acq: 31 Mar 2016 13:29

Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	25.2	20.1	30.1
265	22.1	18.3	27.5





#29

Benzo(b)fluoranthene

Concen: 4.41 ng

RT: 23.01 min Scan# 1362

Delta R.T. -0.02 min

Lab File: BE091582.D

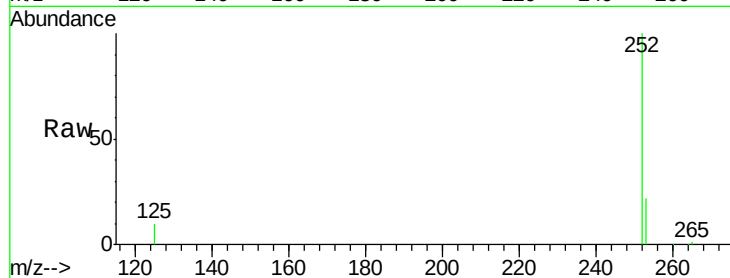
Acq: 31 Mar 2016 13:29

Instrument :

BNA_E

ClientSampleId :

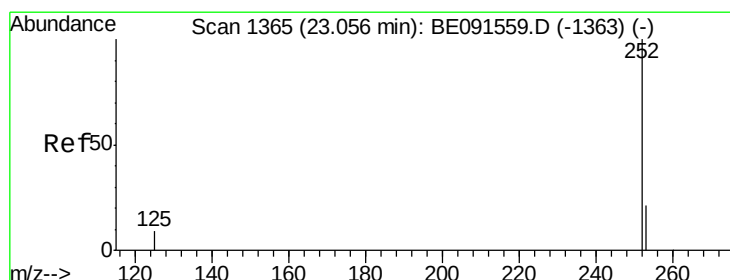
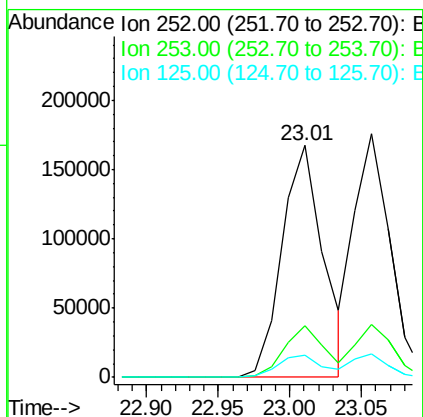
LOQ-SOIL2016-02



Tgt Ion:	252	Resp:	333796
Ion Ratio	Lower	Upper	
252	100		
253	22.2	18.7	28.1
125	9.8	9.8	14.6

Manual Integrations
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#30

Benzo(k)fluoranthene

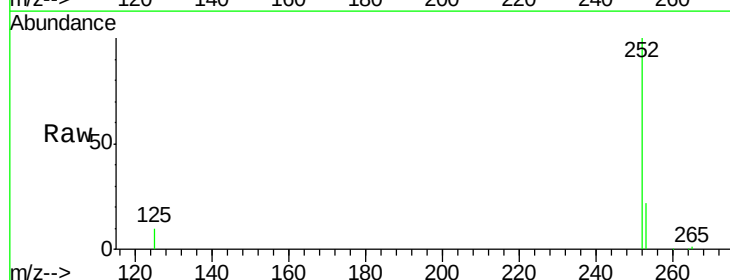
Concen: 4.23 ng

RT: 23.06 min Scan# 1366

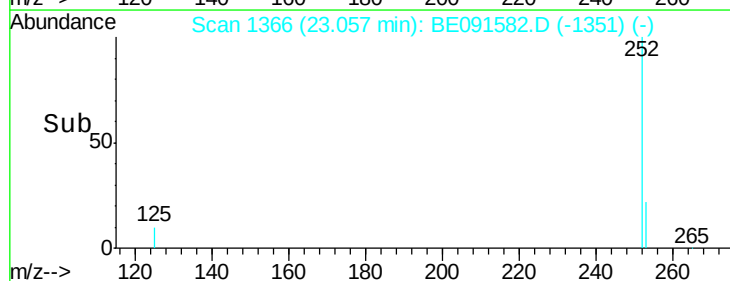
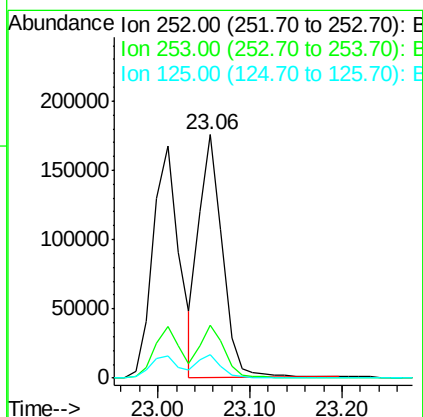
Delta R.T. -0.02 min

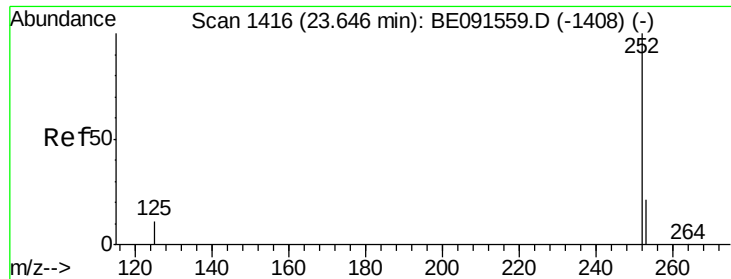
Lab File: BE091582.D

Acq: 31 Mar 2016 13:29



Tgt Ion:	252	Resp:	309866
Ion Ratio	Lower	Upper	
252	100		
253	21.6	20.2	30.4
125	9.8	9.4	14.2





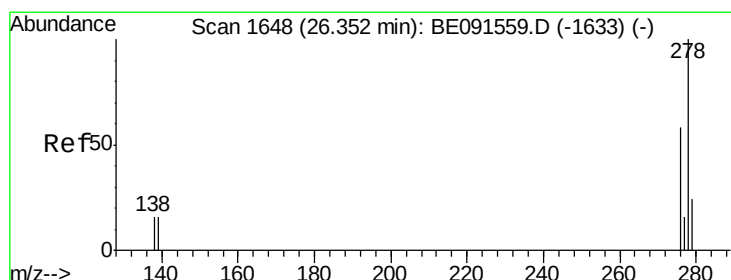
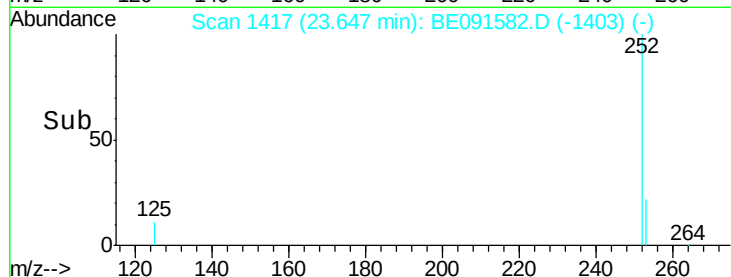
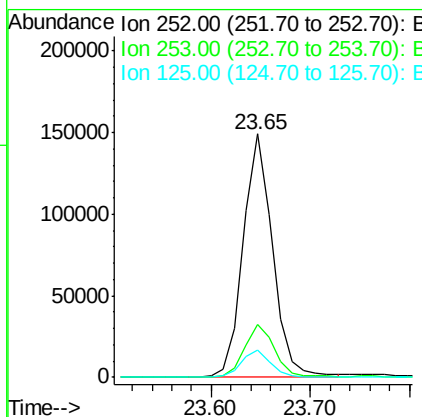
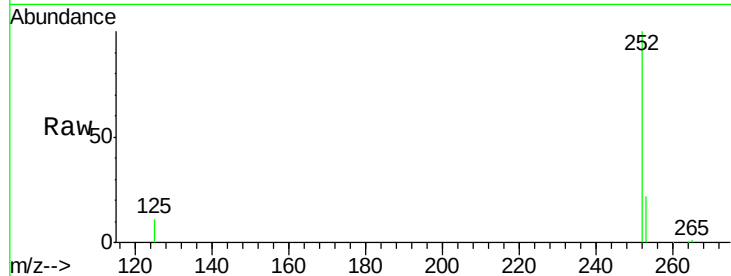
#31
Benzo(a)pyrene
Concen: 4.40 ng
RT: 23.65 min Scan# 1417
Delta R.T. -0.03 min
Lab File: BE091582.D
Acq: 31 Mar 2016 13:29

Instrument :
BNA_E
ClientSampleId :
LOQ-SOIL2016-02

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	21.8	19.4	29.0
125	11.0	11.4	17.2

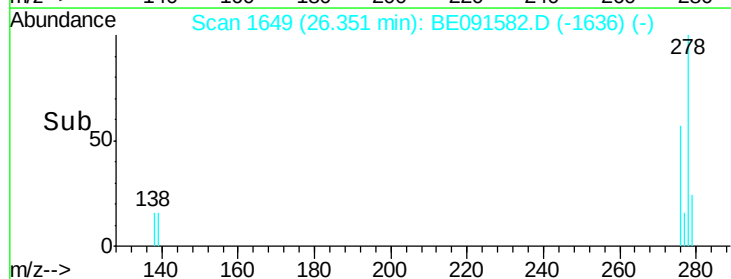
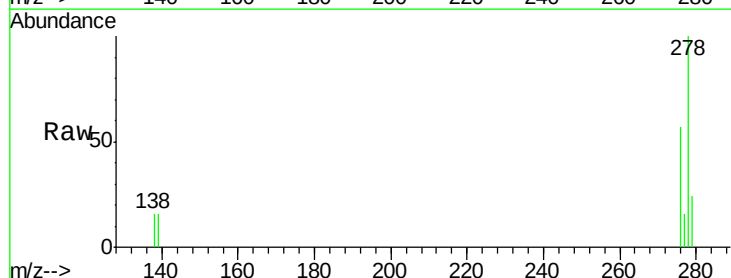
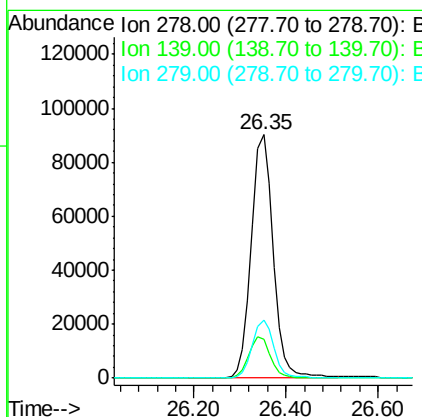
Manual Integrations
APPROVED

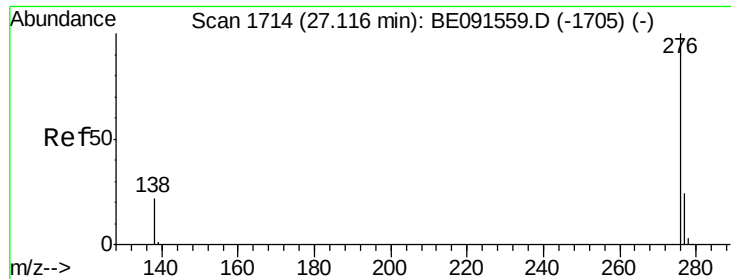
Sohil
4/1/2016 9:39:46 PM



#32
Dibenzo(a,h)anthracene
Concen: 4.38 ng
RT: 26.35 min Scan# 1649
Delta R.T. -0.05 min
Lab File: BE091582.D
Acq: 31 Mar 2016 13:29

Tgt Ion	Ratio	Resp Lower	Resp Upper
278	100		
139	15.7	14.2	21.4
279	23.9	19.6	29.4





#33

Benzo(g,h,i)perylene

Concen: 4.31 ng

RT: 27.11 min Scan# 1715

Delta R.T. -0.05 min

Lab File: BE091582.D

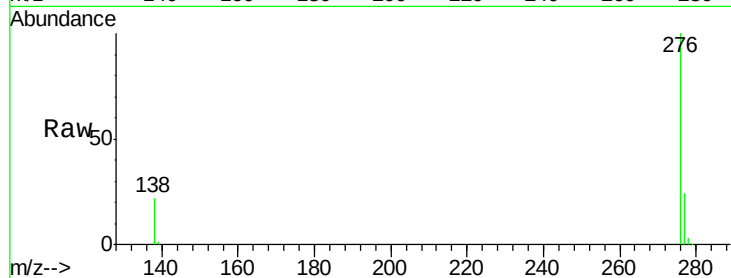
Acq: 31 Mar 2016 13:29

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL2016-02



Tgt Ion:	276	Resp:	298874
Ion Ratio	Lower	Upper	
276	100		
277	24.0	19.4	29.2
138	22.0	18.2	27.4

Manual Integrations
APPROVED

Sohil
4/1/2016 9:39:46 PM

