

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE091216\
 Data File : BE092377.D
 Acq On : 12 Sep 2016 18:23
 Operator : UM/SJ
 Sample : H4758-01MSD
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 NC-TS-005MSD

Manual Integrations
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Quant Time: Sep 12 19:07:57 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE090216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 02 19:34:51 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	11753	5.00	ng	-0.02
7) Naphthalene-d8	10.95	136	52353	5.00	ng	0.00
12) Acenaphthene-d10	14.82	164	28019	5.00	ng	0.00
18) Phenanthrene-d10	17.56	188	61536	5.00	ng	0.00
24) Chrysene-d12	21.75	240	112082	5.00	ng	0.00
31) Perylene-d12	24.11	264	86597	5.00	ng	0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.68	112	30121	10.78	ng	-0.01
5) Phenol-d6	7.34	99	41694	11.18	ng	-0.02
8) Nitrobenzene-d5	9.34	82	20011	5.32	ng	-0.02
13) 2,4,6-Tribromophenol	16.31	330	10446	12.04	ng	-0.01
14) 2-Fluorobiphenyl	13.43	172	36334	4.23	ng	-0.01
26) Terphenyl-d14	20.17	244	51556	3.11	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.42	88	5364	3.71	ng	# 84
3) n-Nitrosodimethylamine	3.76	42	9633	5.15	ng	# 97
6) bis(2-Chloroethyl)ether	7.59	93	15766	4.42	ng	92
9) Naphthalene	10.99	128	49195	4.20	ng	# 95
10) Hexachlorobutadiene	11.30	225	6996	3.82	ng	100
11) 2-Methylnaphthalene	12.62	142	33236	4.33	ng	93
15) Acenaphthylene	14.53	152	234091	4.85	ng	100
16) Acenaphthene	14.88	154	31179	3.99	ng	98
17) Fluorene	15.86	166	40949	4.18	ng	100
19) Hexachlorobenzene	16.89	284	11143	3.78	ng	# 63
20) Pentachlorophenol	17.23	266	14959	8.40	ng	85
21) Phenanthrene	17.60	178	89254	5.16	ng	# 94
22) Anthracene	17.70	178	80801	5.25	ng	98
23) Fluoranthene	19.61	202	608578	8.06	ng	99
25) Pyrene	19.97	202	643525	5.90	ng	96
27) Benzo(a)anthracene	21.72	228	617561m	5.11	ng	
28) Chrysene	21.77	228	544760m	4.87	ng	
29) Bis(2-ethylhexyl)phthalate	21.63	149	107831	Below Cal		# 73
30) Indeno(1,2,3-cd)pyrene	26.60	276	432410	3.39	ng	99
32) Benzo(b)fluoranthene	23.38	252	150870	6.79	ng	98
33) Benzo(k)fluoranthene	23.43	252	87377m	3.72	ng	
34) Benzo(a)pyrene	23.99	252	117154	5.35	ng	99
35) Dibenzo(a,h)anthracene	26.63	278	71762	3.54	ng	98
36) Benzo(g,h,i)perylene	27.38	276	383793	4.49	ng	99

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

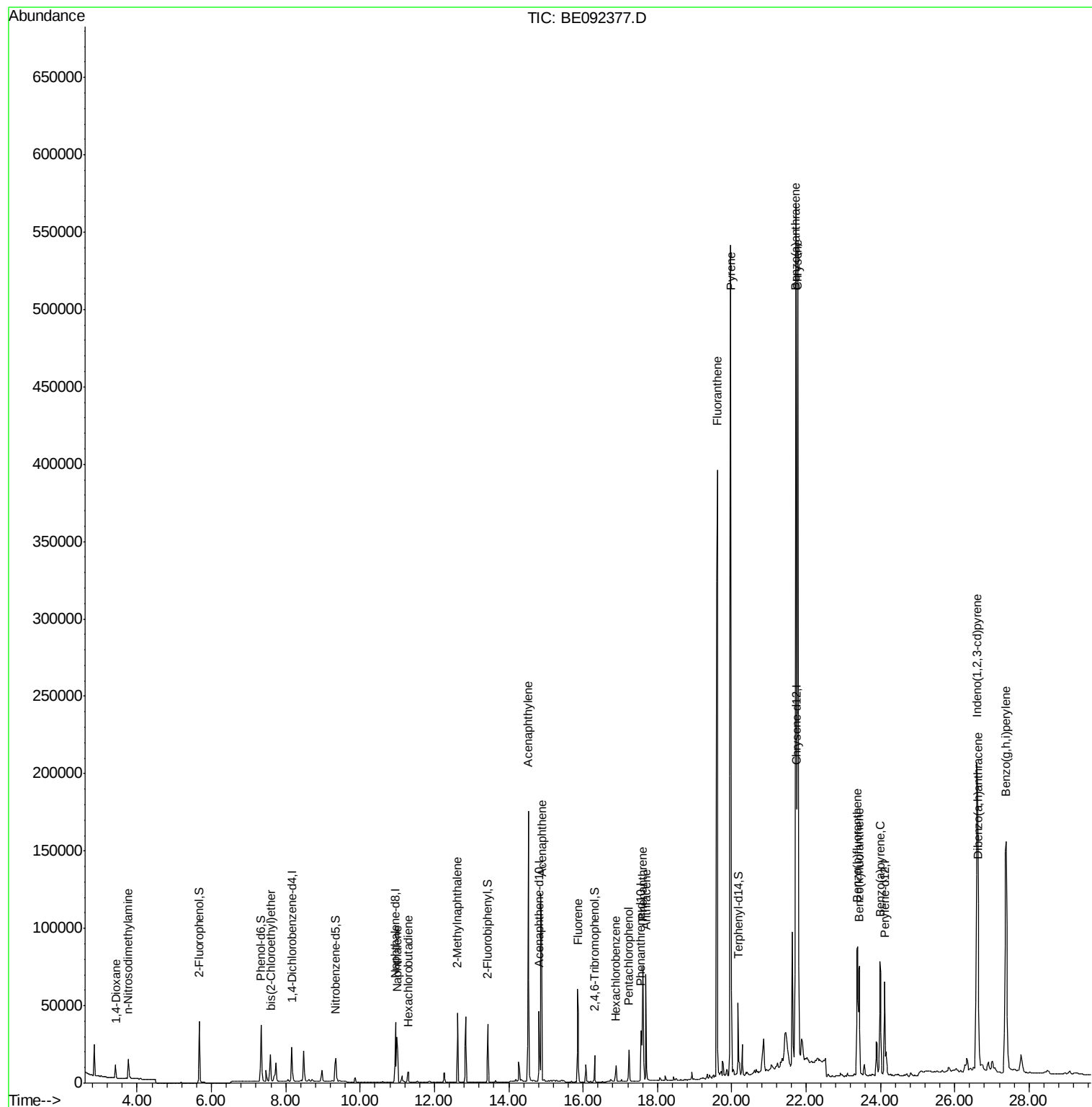
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE091216\
Data File : BE092377.D
Acq On : 12 Sep 2016 18:23
Operator : UM/SJ
Sample : H4758-01MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampled :
NC-TS-005MSD

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Quant Time: Sep 12 19:07:57 2016
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE090216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Sep 02 19:34:51 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.17 min Scan# 576

Delta R.T. -0.02 min

Lab File: BE092377.D

Acq: 12 Sep 2016 18:23

Instrument :

BNA_E

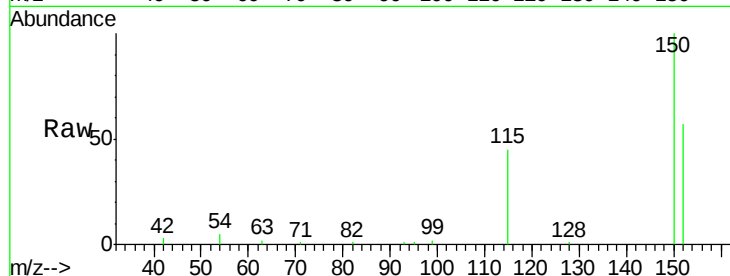
ClientSampleId :

NC-TS-005MSD

Tgt Ion	Ratio	Lower	Upper
152	100		
150	174.3	106.0	159.0#
115	78.9	31.2	46.8#

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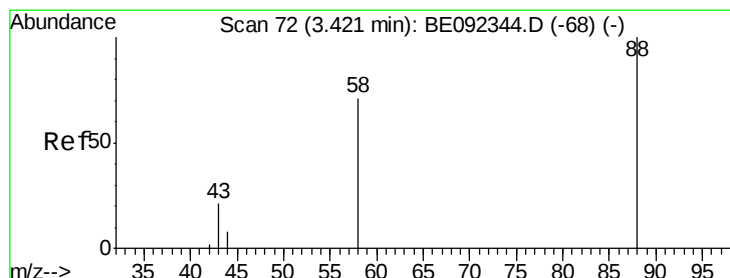
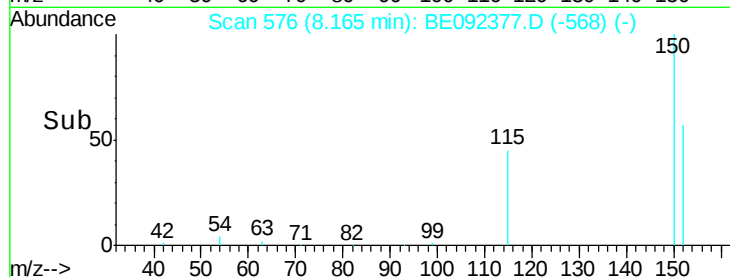
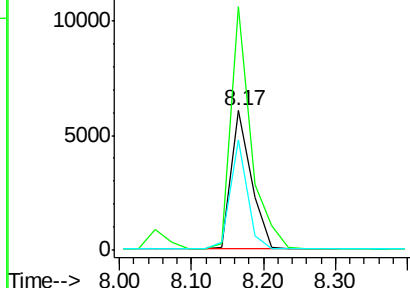
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 3.71 ng

RT: 3.42 min Scan# 72

Delta R.T. 0.00 min

Lab File: BE092377.D

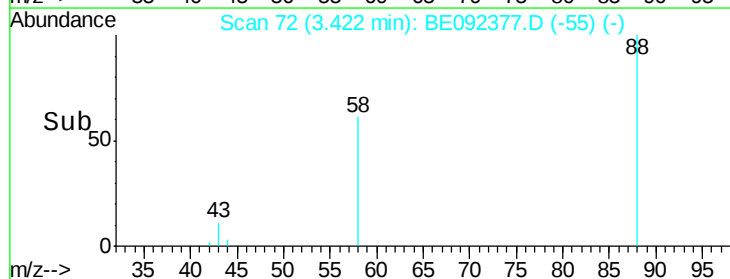
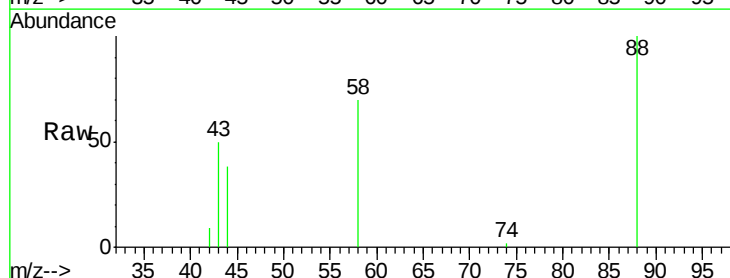
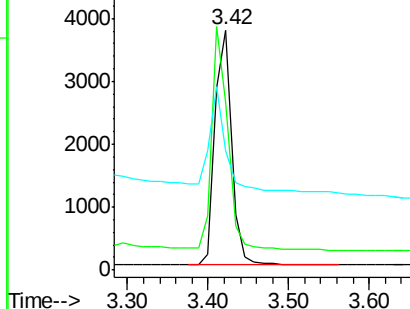
Acq: 12 Sep 2016 18:23

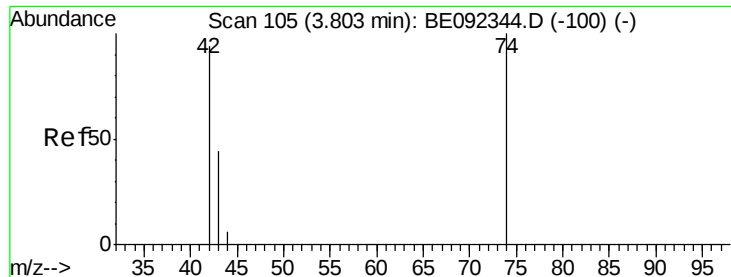
Tgt Ion	Ratio	Lower	Upper
88	100		
58	91.7	63.6	95.4
43	47.8	28.0	42.0#

Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 5.15 ng

RT: 3.76 min Scan# 101

Delta R.T. -0.04 min

Lab File: BE092377.D

Acq: 12 Sep 2016 18:23

Instrument :

BNA_E

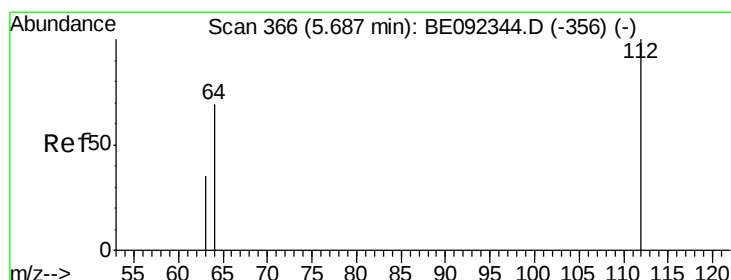
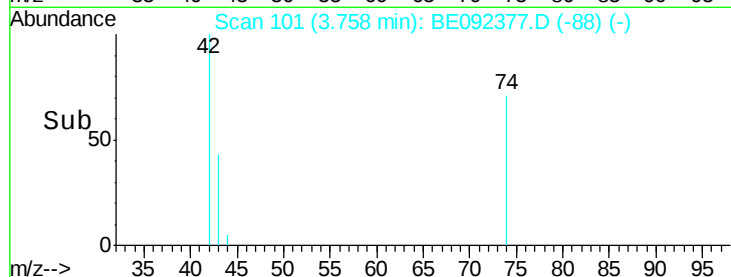
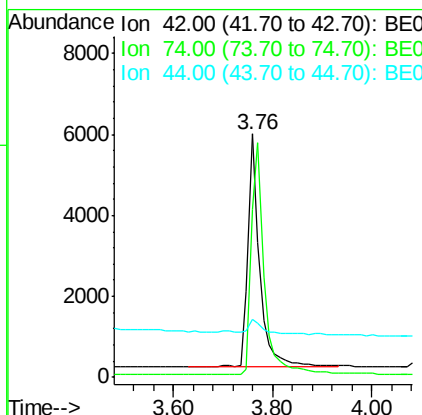
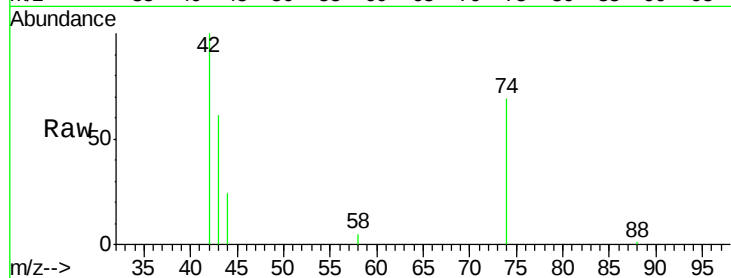
ClientSampleId :

NC-TS-005MSD

Tgt Ion:	42	Resp:	9633
Ion Ratio	Lower	Upper	
42	100		
74	110.2	86.0	129.0
44	9.4	5.1	7.7#

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#4

2-Fluorophenol

Concen: 10.78 ng

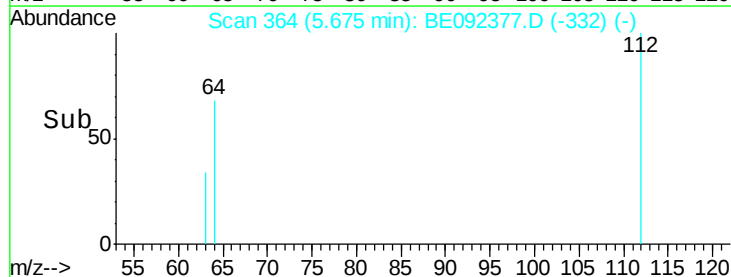
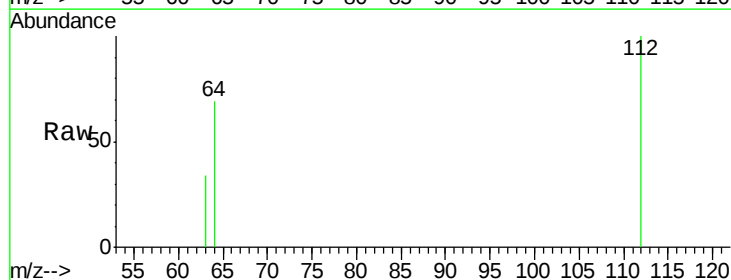
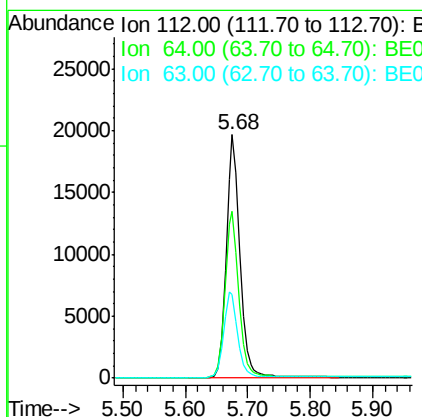
RT: 5.68 min Scan# 364

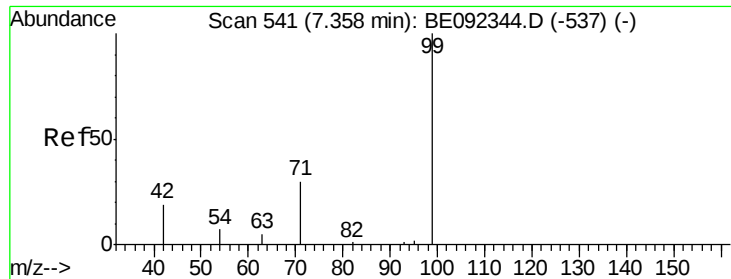
Delta R.T. -0.01 min

Lab File: BE092377.D

Acq: 12 Sep 2016 18:23

Tgt Ion:	112	Resp:	30121
Ion Ratio	Lower	Upper	
112	100		
64	69.4	53.5	80.3
63	36.1	27.9	41.9





#5

Phenol-d6

Concen: 11.18 ng

RT: 7.34 min Scan# 540

Delta R.T. -0.02 min

Lab File: BE092377.D

Acq: 12 Sep 2016 18:23

Instrument :

BNA_E

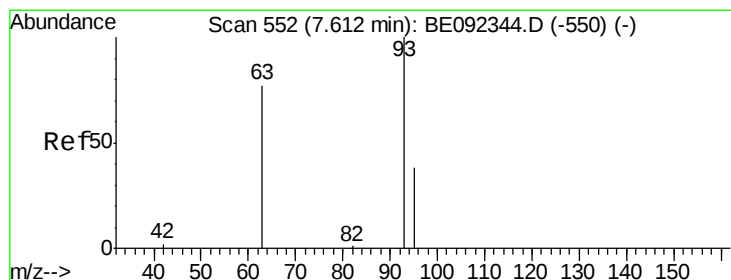
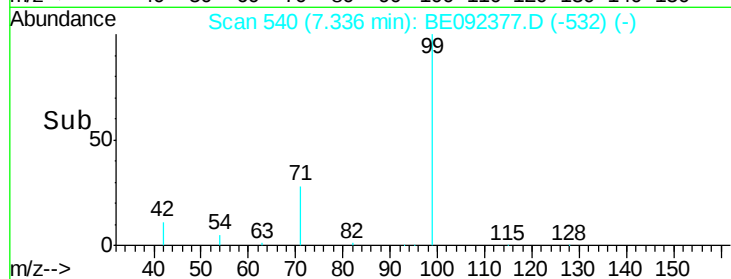
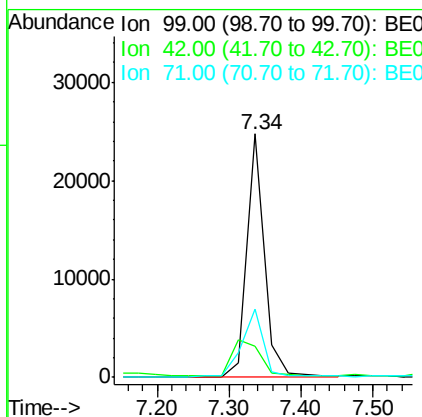
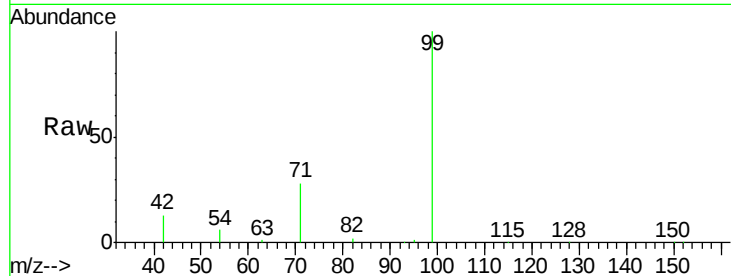
ClientSampleId :

NC-TS-005MSD

Tgt Ion:	99	Resp:	41694
Ion	Ratio	Lower	Upper
99	100		
42	0.0	16.0	24.0#
71	33.4	30.6	45.8

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#6

bis(2-Chloroethyl)ether

Concen: 4.42 ng

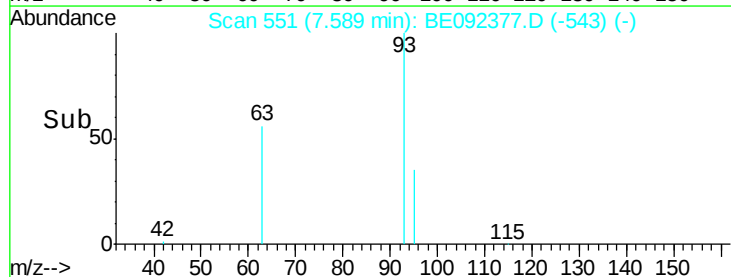
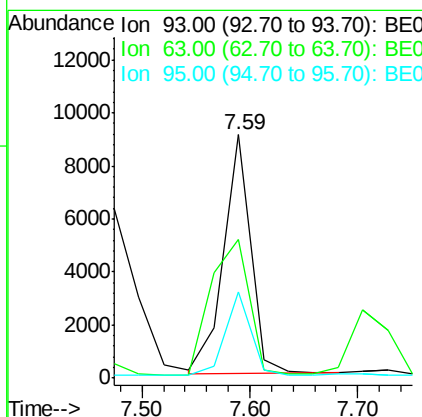
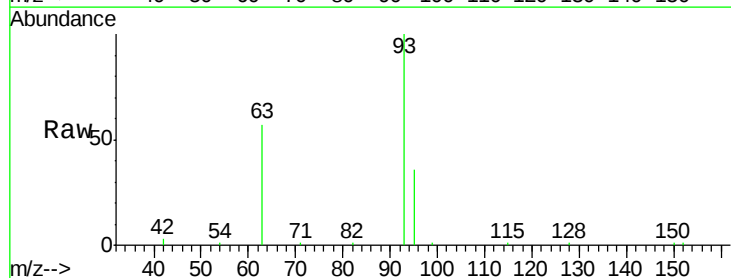
RT: 7.59 min Scan# 551

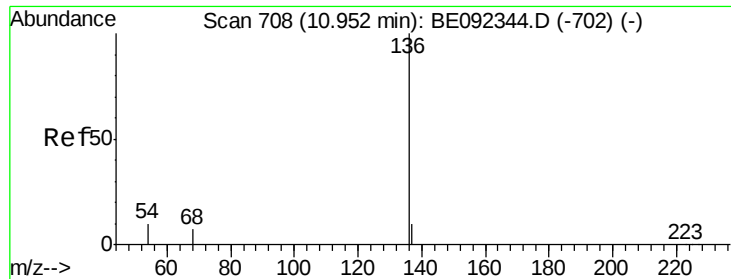
Delta R.T. -0.02 min

Lab File: BE092377.D

Acq: 12 Sep 2016 18:23

Tgt Ion:	93	Resp:	15766
Ion	Ratio	Lower	Upper
93	100		
63	81.5	71.6	107.4
95	33.3	24.0	36.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.95 min Scan# 708

Delta R.T. -0.00 min

Lab File: BE092377.D

Acq: 12 Sep 2016 18:23

Instrument :

BNA_E

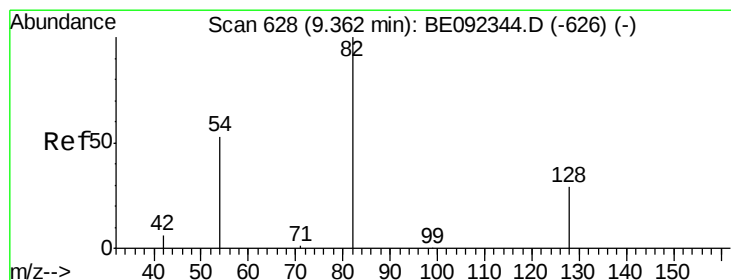
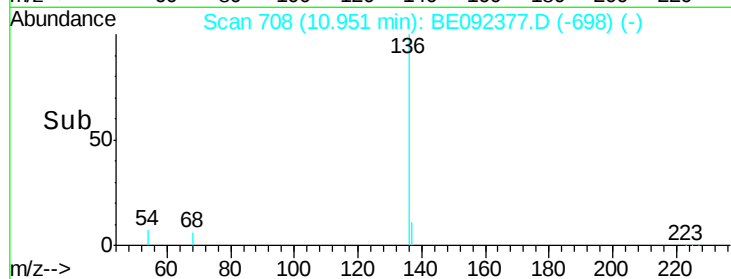
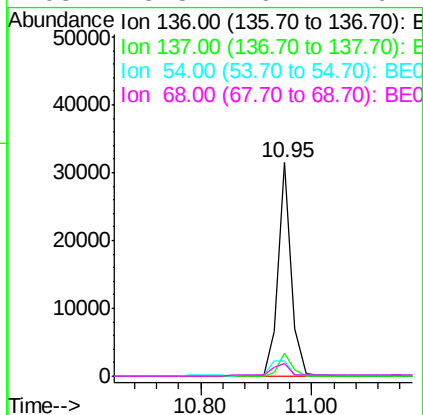
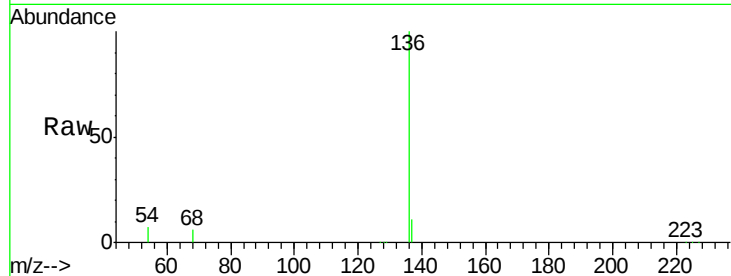
ClientSampleId :

NC-TS-005MSD

Tgt Ion	Ratio	Resp Lower	Resp Upper
136	100		52353
137	11.1	8.2	12.4
54	7.3	9.6	14.4#
68	5.8	6.7	10.1#

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#8

Nitrobenzene-d5

Concen: 5.32 ng

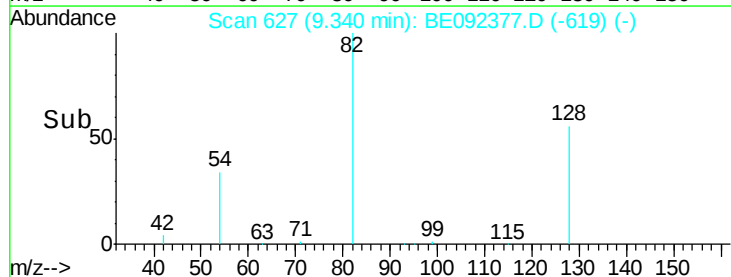
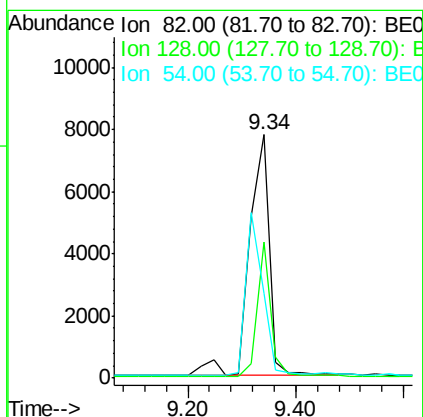
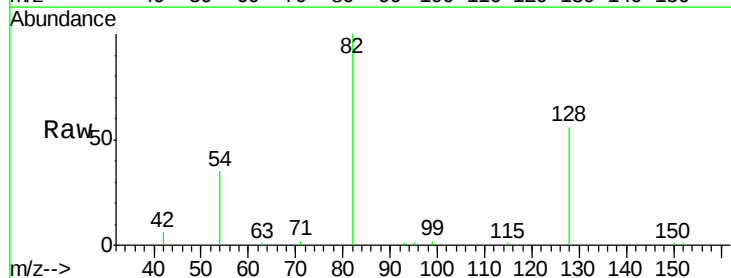
RT: 9.34 min Scan# 627

Delta R.T. -0.02 min

Lab File: BE092377.D

Acq: 12 Sep 2016 18:23

Tgt Ion	Ratio	Resp Lower	Resp Upper
82	100		20011
128	55.7	39.0	58.4
54	34.8	44.8	67.2#





#9

Naphthalene

Concen: 4.20 ng

RT: 10.99 min Scan# 710

Delta R.T. -0.02 min

Lab File: BE092377.D

Acq: 12 Sep 2016 18:23

Instrument :

BNA_E

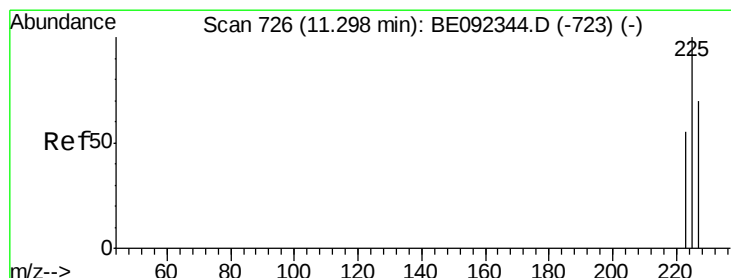
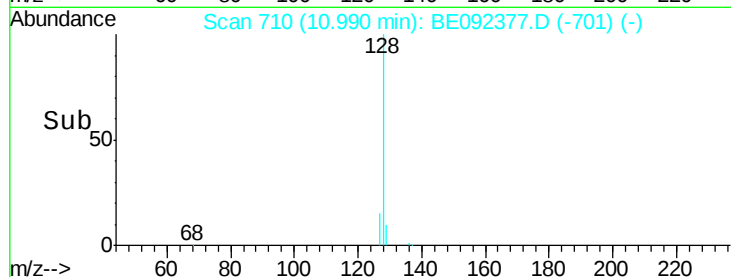
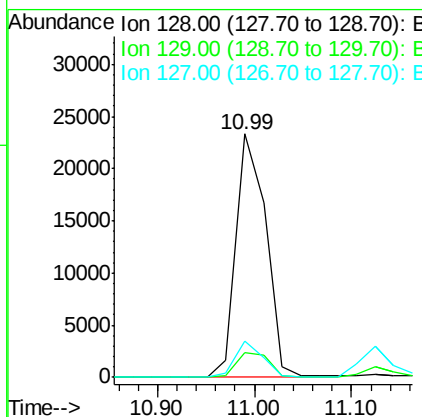
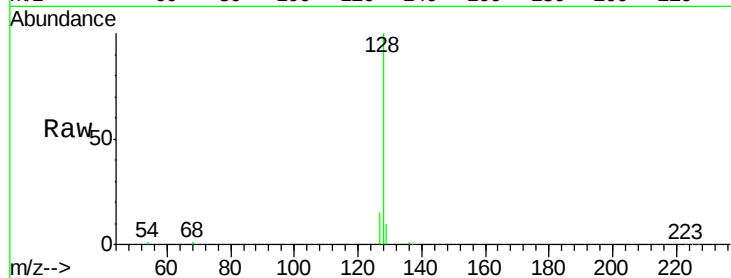
ClientSampleId :

NC-TS-005MSD

Tgt Ion:	128	Resp:	49195
Ion Ratio		Lower	Upper
128	100		
129	10.3	11.2	16.8#
127	14.7	11.6	17.4

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#10

Hexachlorobutadiene

Concen: 3.82 ng

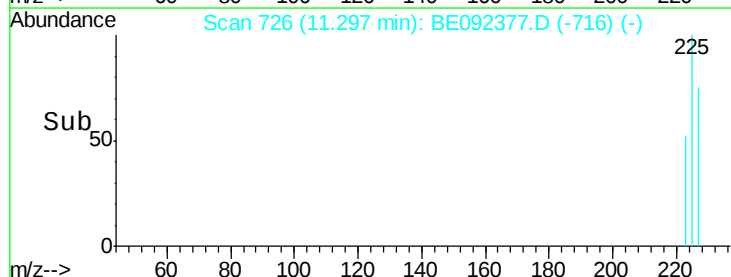
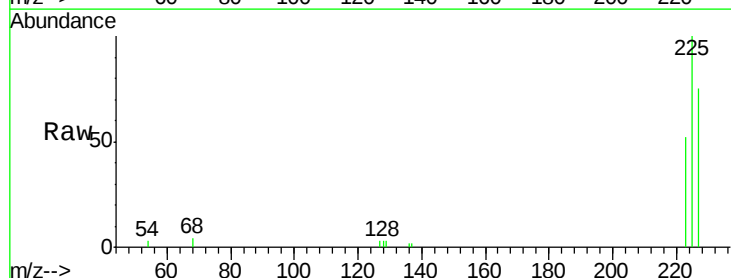
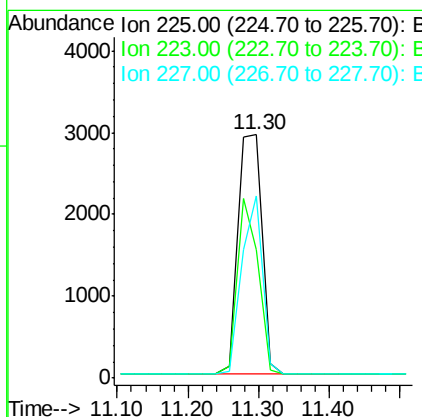
RT: 11.30 min Scan# 726

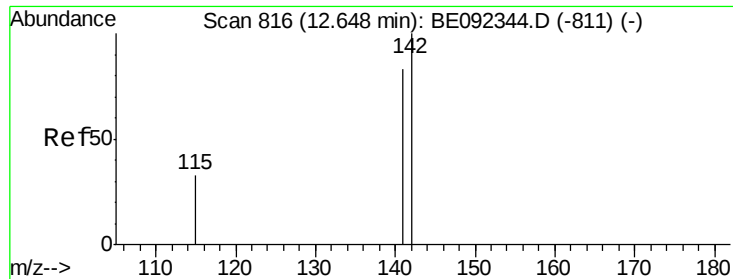
Delta R.T. -0.00 min

Lab File: BE092377.D

Acq: 12 Sep 2016 18:23

Tgt Ion:	225	Resp:	6996
Ion Ratio		Lower	Upper
225	100		
223	63.0	50.6	76.0
227	64.0	51.4	77.0





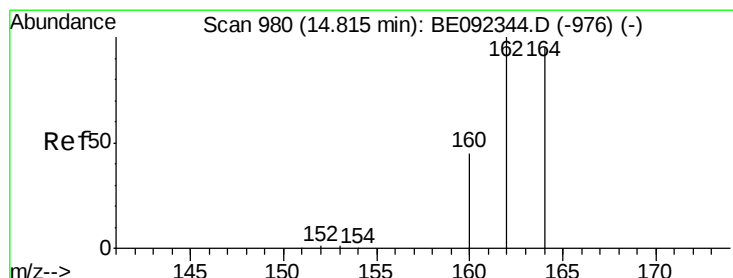
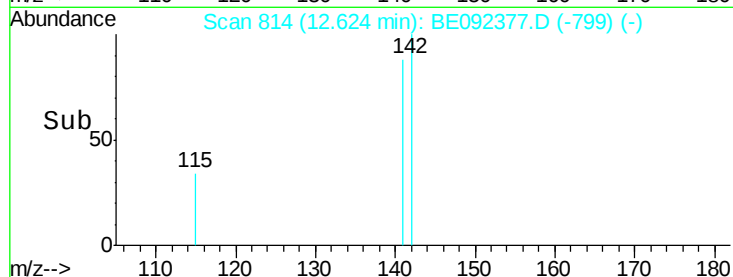
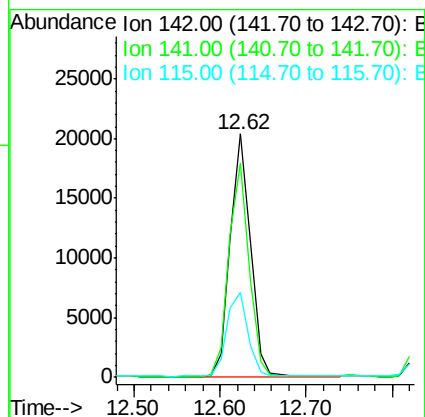
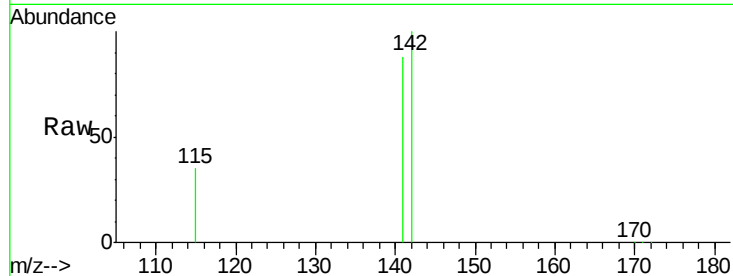
#11
2-Methylnaphthalene
Concen: 4.33 ng
RT: 12.62 min Scan# 814
Delta R.T. -0.02 min
Lab File: BE092377.D
Acq: 12 Sep 2016 18:23

Instrument :
BNA_E
ClientSampleId :
NC-TS-005MSD

Tgt Ion:142 Resp: 33236
Ion Ratio Lower Upper
142 100
141 87.9 73.7 110.5
115 34.9 34.0 51.0

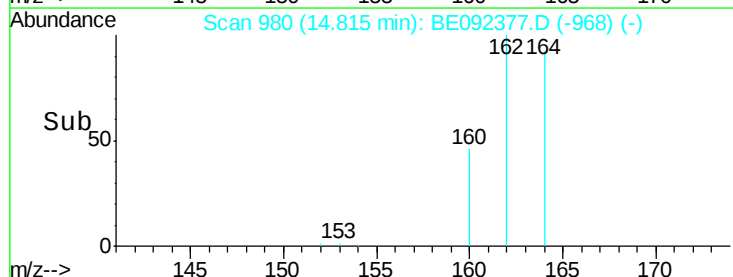
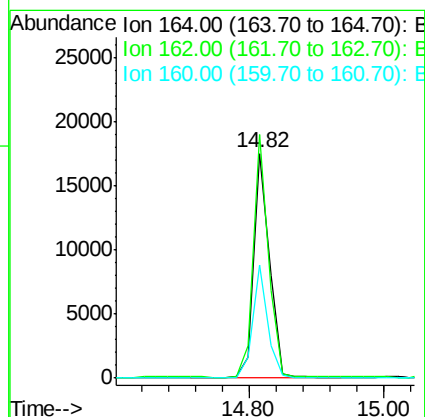
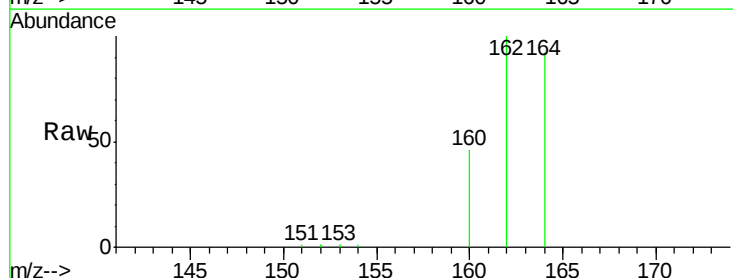
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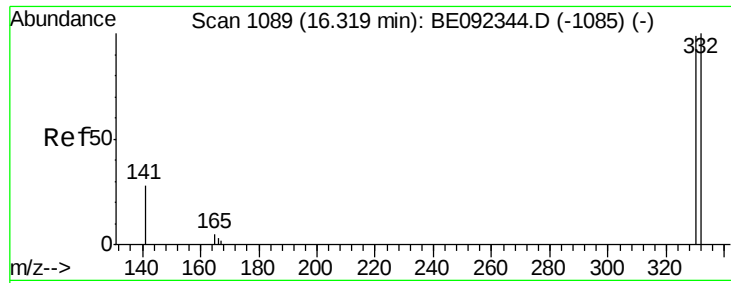
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.82 min Scan# 980
Delta R.T. 0.00 min
Lab File: BE092377.D
Acq: 12 Sep 2016 18:23

Tgt Ion:164 Resp: 28019
Ion Ratio Lower Upper
164 100
162 108.2 71.4 107.0#
160 50.1 27.4 41.2#





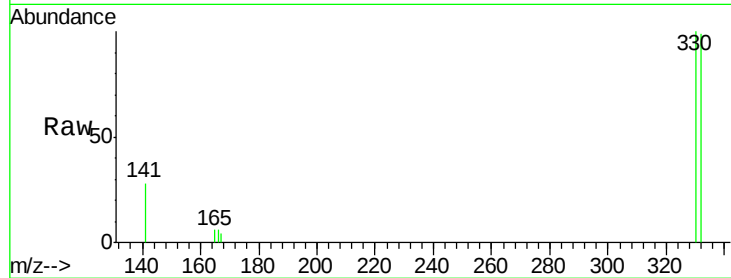
#13
 2,4,6-Tribromophenol
 Concen: 12.04 ng
 RT: 16.31 min Scan# 1088
 Delta R.T. -0.01 min
 Lab File: BE092377.D
 Acq: 12 Sep 2016 18:23

Instrument :
 BNA_E
 ClientSampleId :
 NC-TS-005MSD

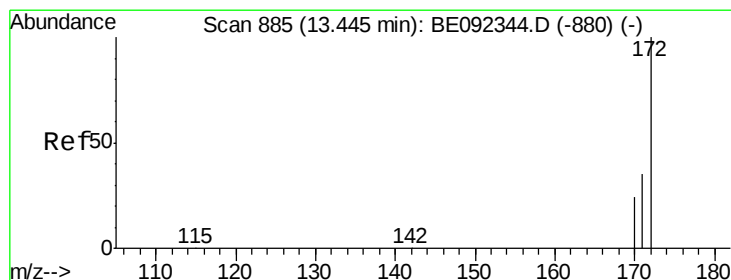
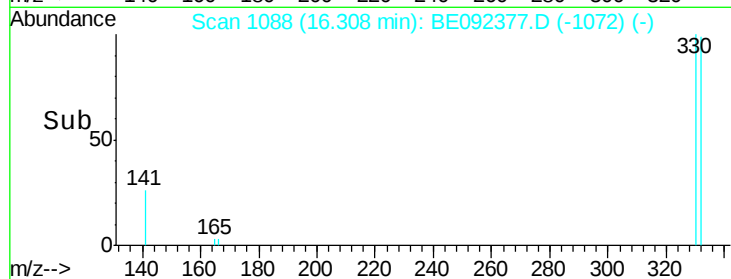
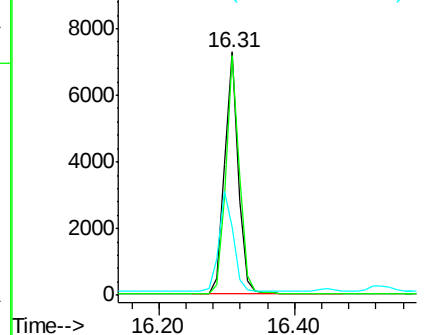
Tgt Ion	Ratio	Resp	Lower	Upper
330	100	10446		
332	97.3	75.4	113.0	
141	42.5	31.0	46.6	

Manual Integrations
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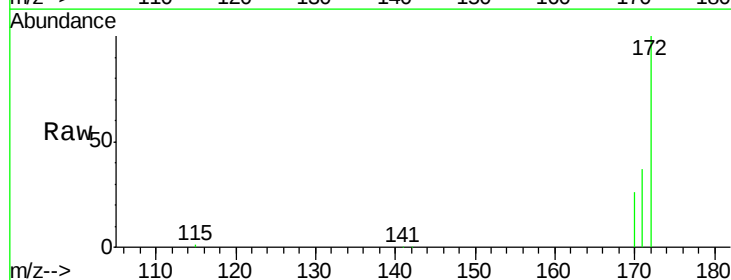


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

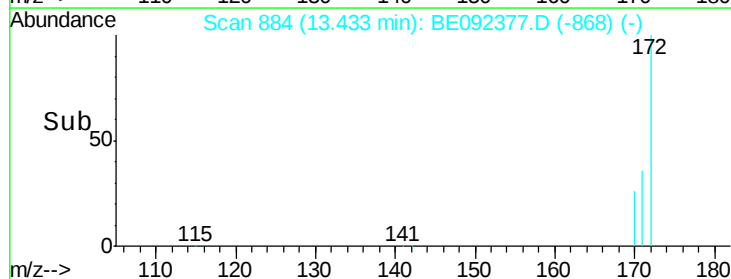
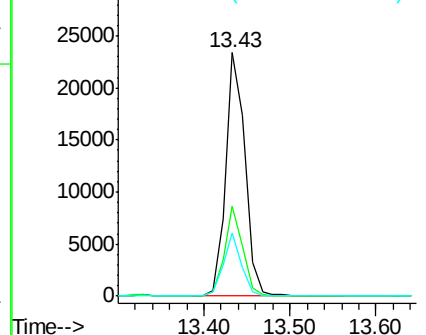


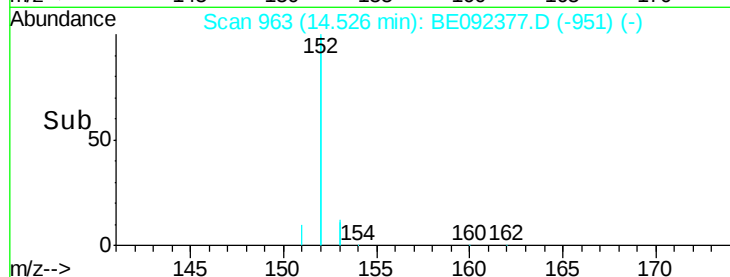
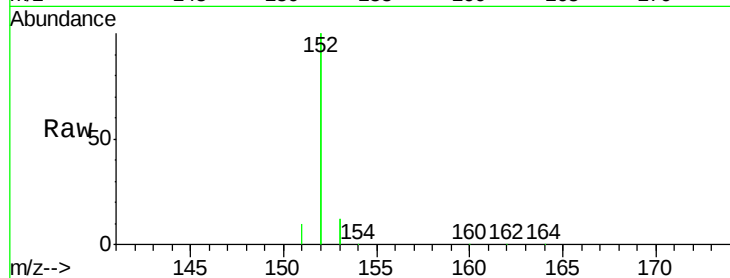
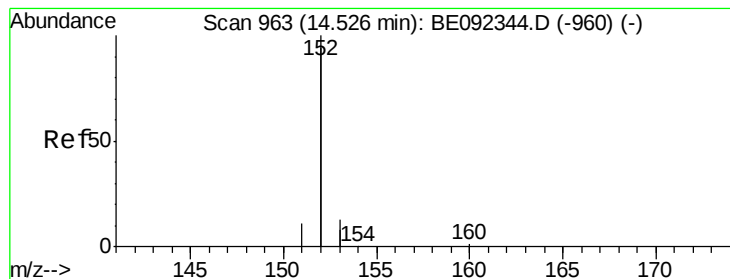
#14
 2-Fluorobiphenyl
 Concen: 4.23 ng
 RT: 13.43 min Scan# 884
 Delta R.T. -0.01 min
 Lab File: BE092377.D
 Acq: 12 Sep 2016 18:23

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	36334		
171	36.8	30.1	45.1	
170	25.7	21.8	32.6	



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





#15

Acenaphthylene

Concen: 4.85 ng

RT: 14.53 min Scan# 963

Delta R.T. 0.00 min

Lab File: BE092377.D

Acq: 12 Sep 2016 18:23

Tgt Ion:	152	Resp:	234091
Ion Ratio		Lower	Upper
152	100		
151	4.9	3.9	5.9
153	13.2	10.4	15.6

Instrument :

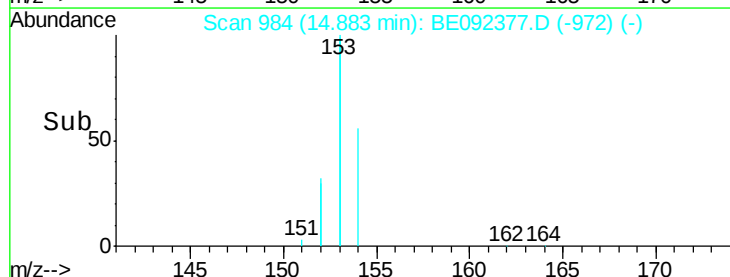
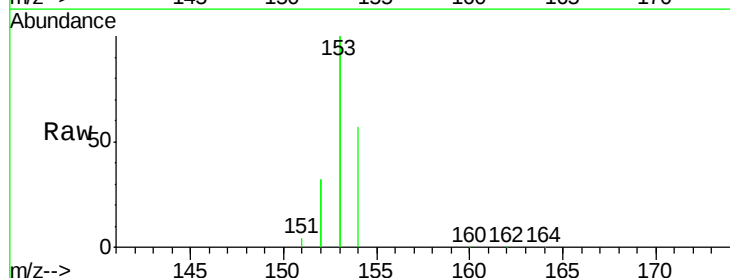
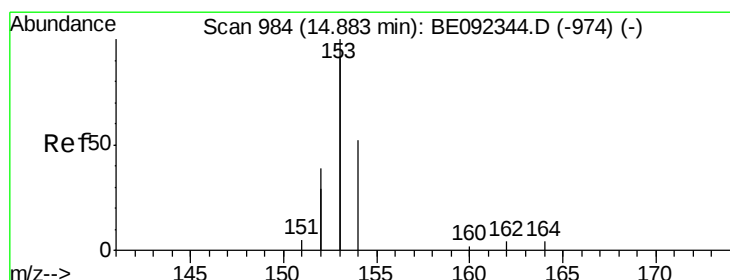
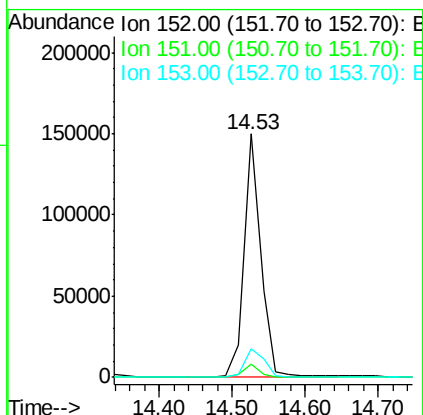
BNA_E

ClientSampleId :

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#16

Acenaphthene

Concen: 3.99 ng

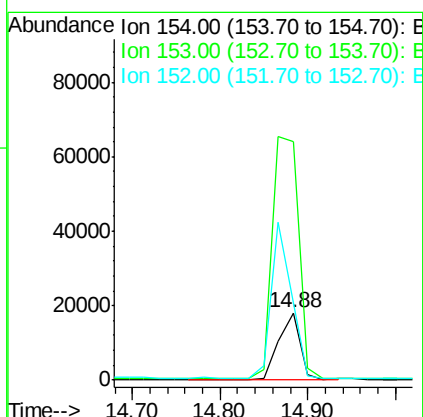
RT: 14.88 min Scan# 984

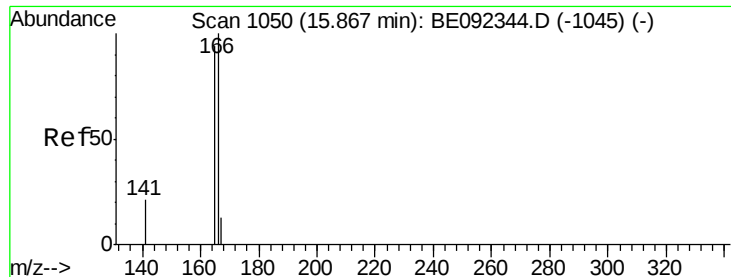
Delta R.T. 0.00 min

Lab File: BE092377.D

Acq: 12 Sep 2016 18:23

Tgt Ion:	154	Resp:	31179
Ion Ratio		Lower	Upper
154	100		
153	442.8	350.8	526.2
152	217.4	171.1	256.7





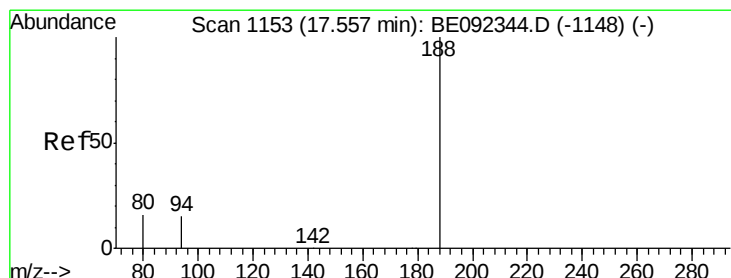
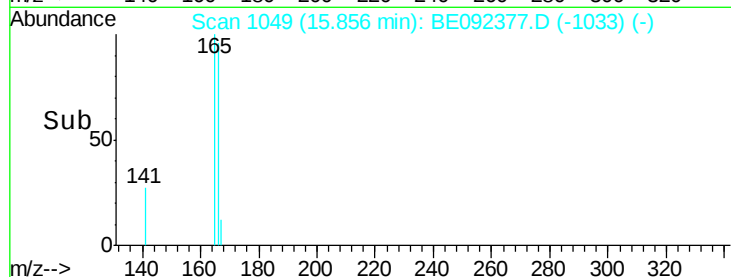
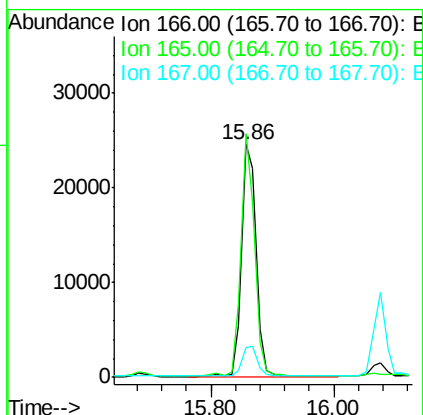
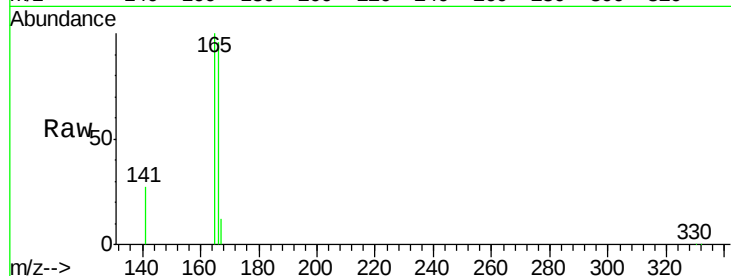
#17
Fluorene
 Concen: 4.18 ng
 RT: 15.86 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: BE092377.D
 Acq: 12 Sep 2016 18:23

Instrument :
 BNA_E
 ClientSampleId :
 NC-TS-005MSD

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.5	78.2	117.4
167	13.3	11.0	16.4

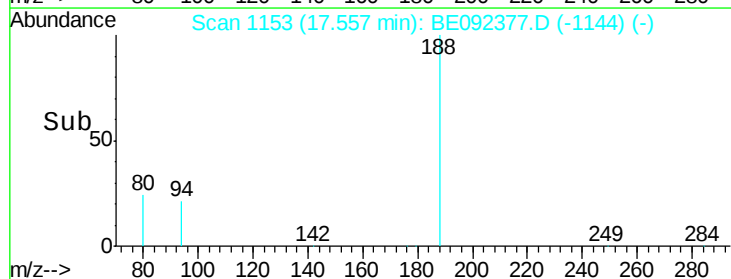
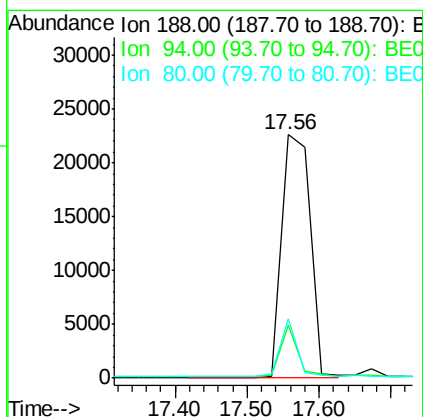
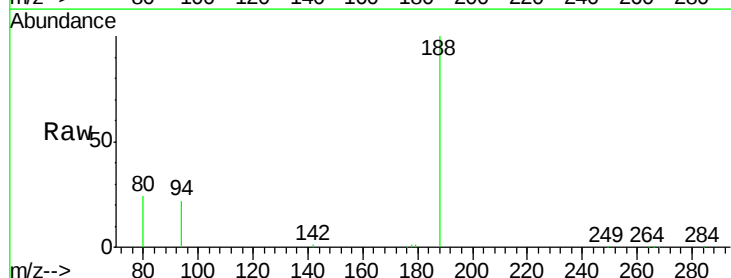
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#18
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.56 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: BE092377.D
 Acq: 12 Sep 2016 18:23

Tgt Ion	Ratio	Lower	Upper
188	100		
94	21.7	3.2	4.8#
80	24.2	2.6	3.8#





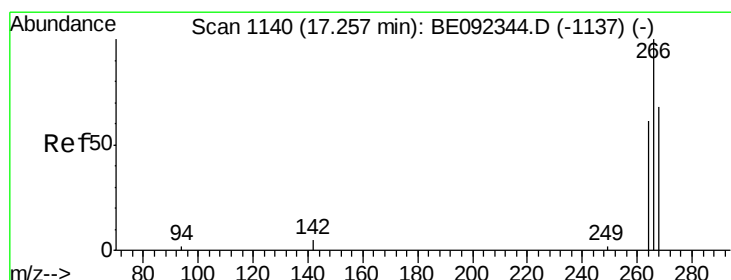
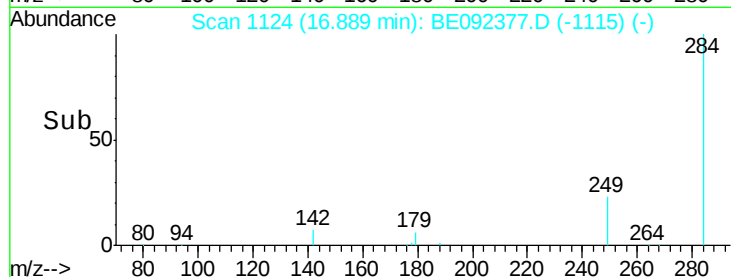
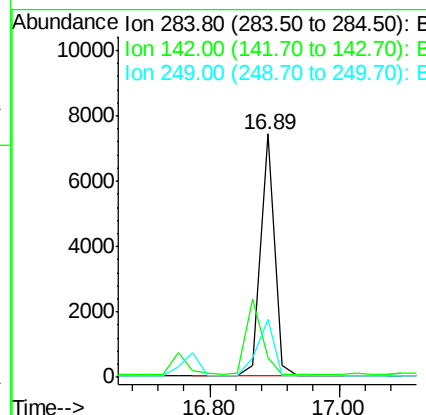
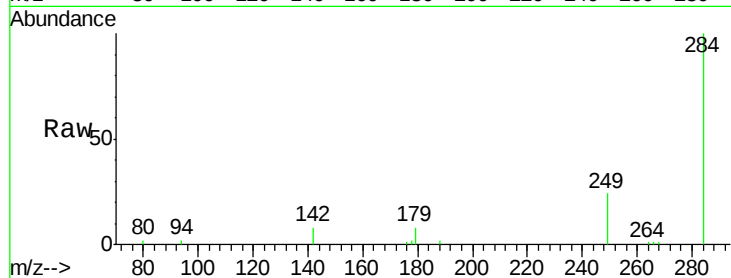
#19
Hexachlorobenzene
Concen: 3.78 ng
RT: 16.89 min Scan# 1124
Delta R.T. 0.00 min
Lab File: BE092377.D
Acq: 12 Sep 2016 18:23

Instrument :
BNA_E
ClientSampleId :
NC-TS-005MSD

Tgt Ion	Ratio	Resp	Lower	Upper
284	100	11143		
142	0.0	29.1	43.7#	
249	28.3	27.9	41.9	

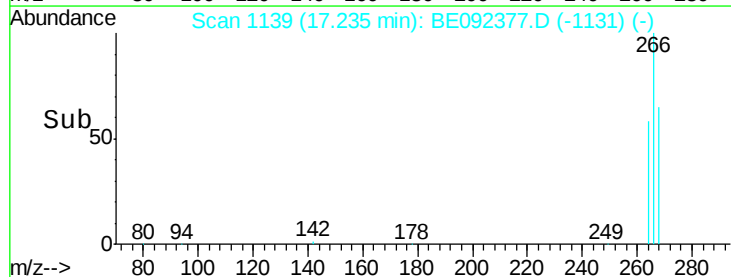
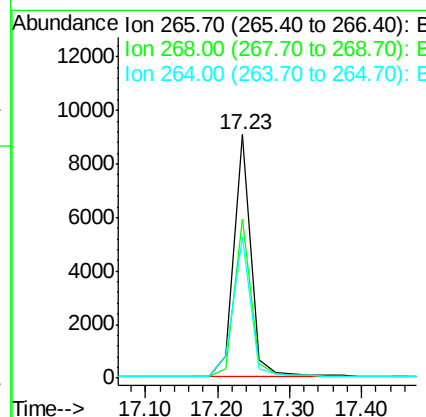
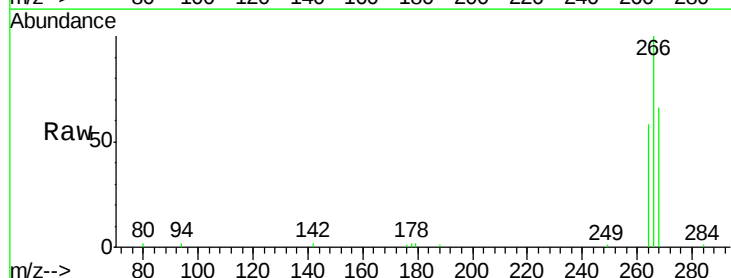
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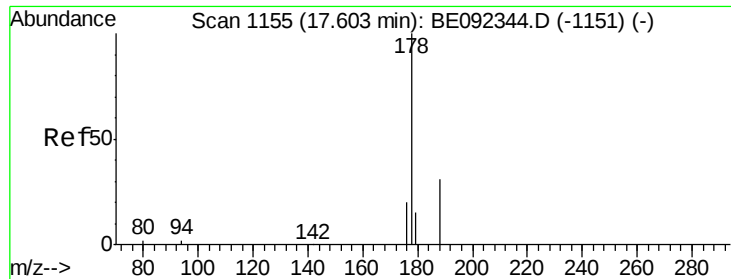
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#20
Pentachlorophenol
Concen: 8.40 ng
RT: 17.23 min Scan# 1139
Delta R.T. -0.02 min
Lab File: BE092377.D
Acq: 12 Sep 2016 18:23

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	14959		
268	65.6	62.5	93.7	
264	58.2	57.2	85.8	





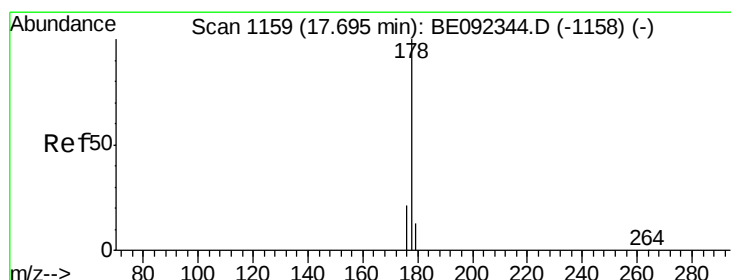
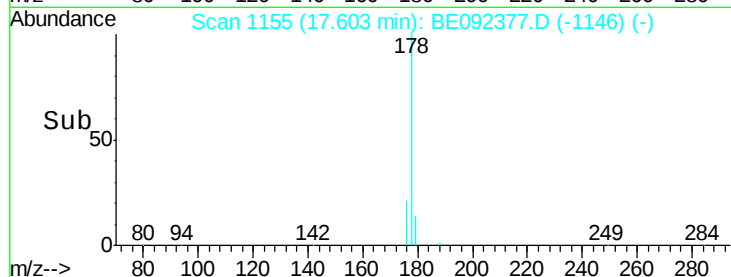
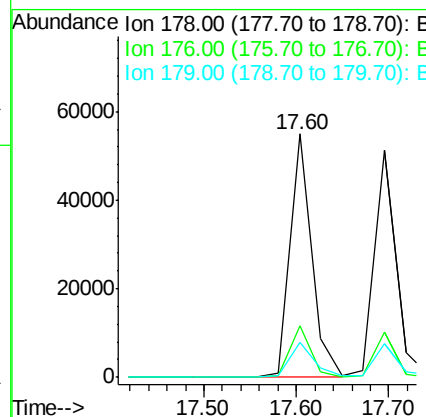
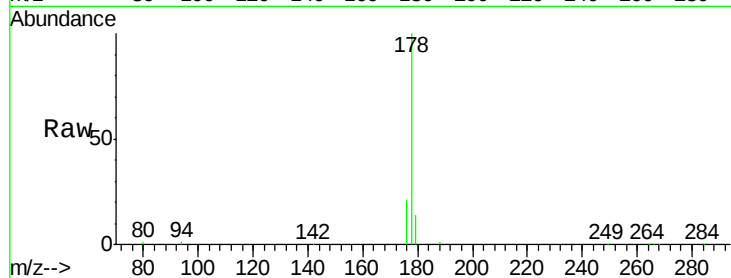
#21
Phenanthrene
Concen: 5.16 ng
RT: 17.60 min Scan# 1155
Delta R.T. 0.00 min
Lab File: BE092377.D
Acq: 12 Sep 2016 18:23

Instrument :
BNA_E
ClientSampleId :
NC-TS-005MSD

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.3	15.8	23.8
179	15.2	16.0	24.0

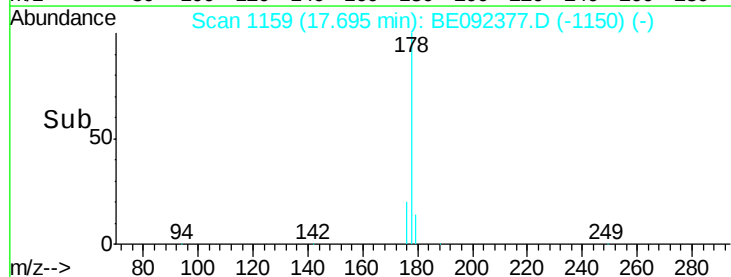
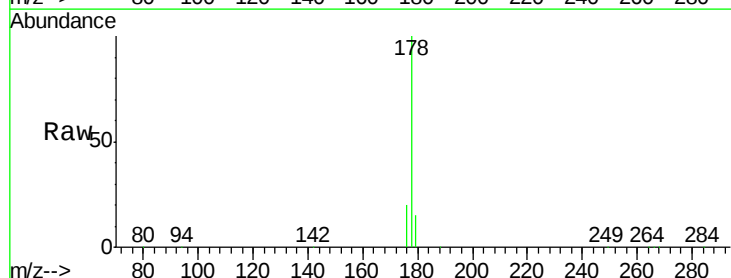
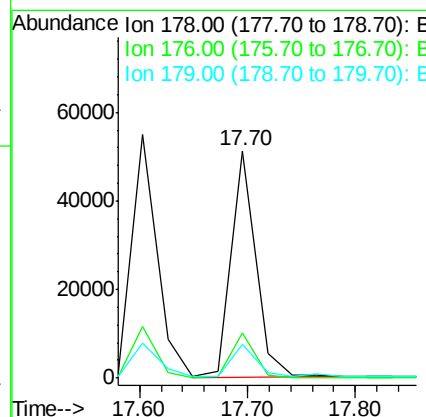
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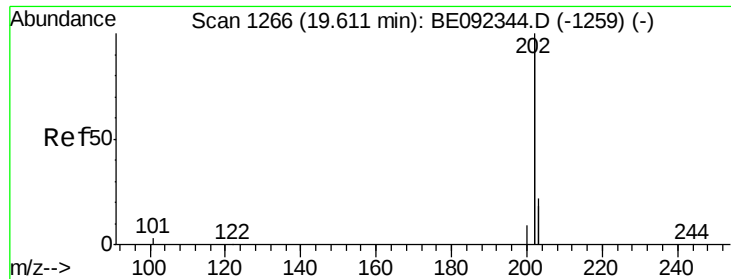
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#22
Anthracene
Concen: 5.25 ng
RT: 17.70 min Scan# 1159
Delta R.T. 0.00 min
Lab File: BE092377.D
Acq: 12 Sep 2016 18:23

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.0	22.4
179	16.0	12.2	18.2





#23

Fluoranthene

Concen: 8.06 ng

RT: 19.61 min Scan# 1266

Delta R.T. 0.00 min

Lab File: BE092377.D

Acq: 12 Sep 2016 18:23

Instrument :

BNA_E

ClientSampleId :

NC-TS-005MSD

Tgt Ion: 202 Resp: 608578

Ion Ratio Lower Upper

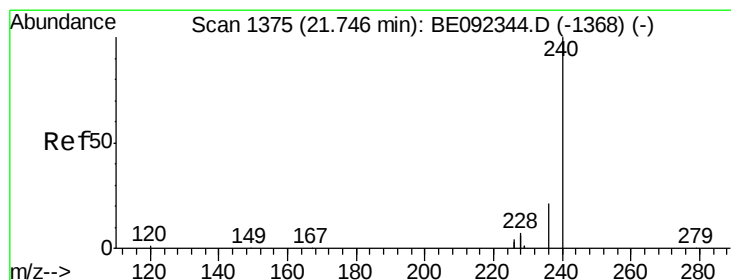
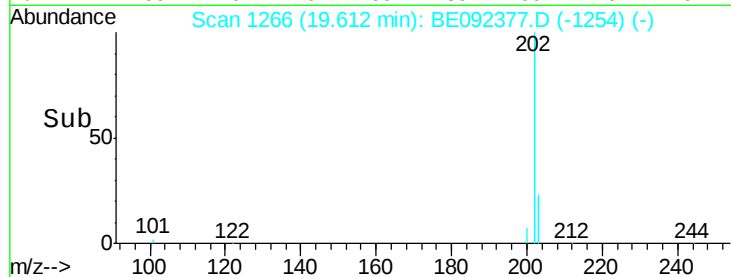
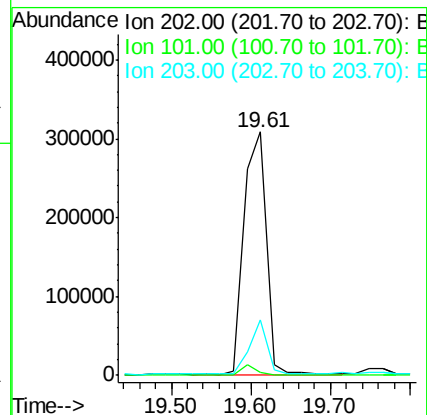
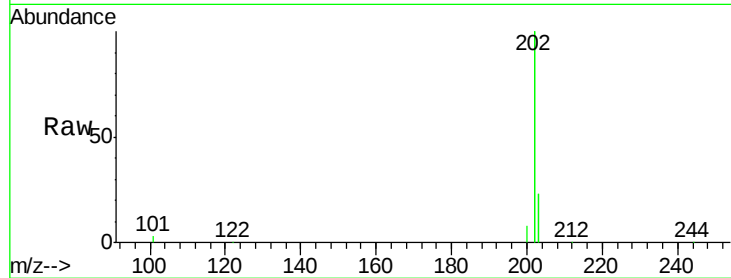
202 100

101 3.0 2.2 3.4

203 17.4 13.7 20.5

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#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.75 min Scan# 1375

Delta R.T. 0.00 min

Lab File: BE092377.D

Acq: 12 Sep 2016 18:23

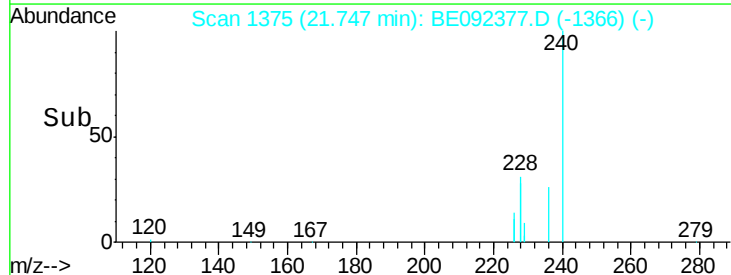
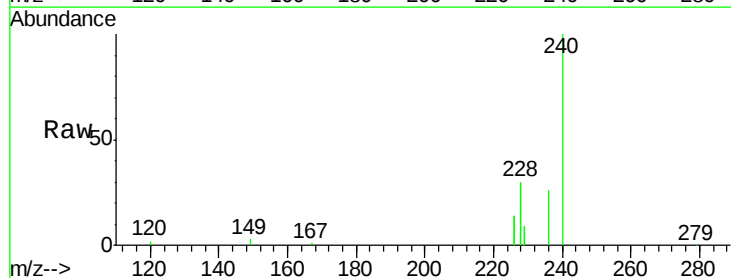
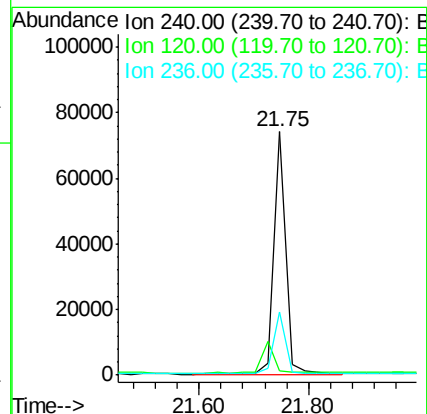
Tgt Ion: 240 Resp: 112082

Ion Ratio Lower Upper

240 100

120 1.9 2.6 4.0#

236 26.2 24.6 37.0





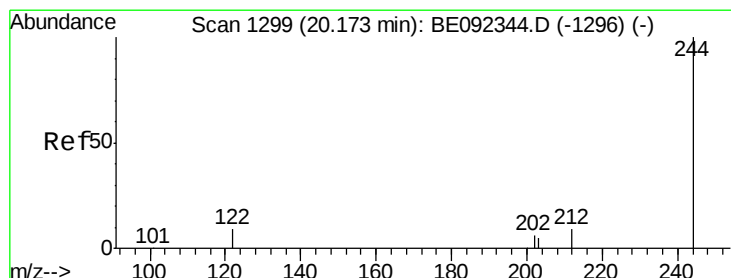
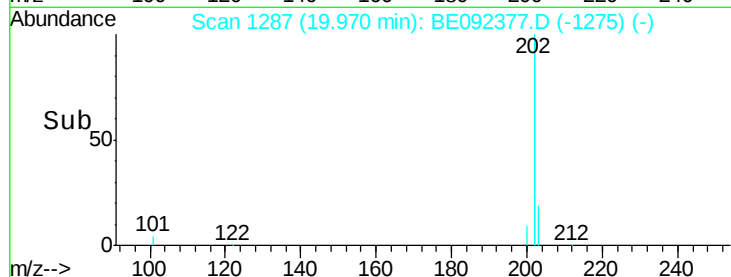
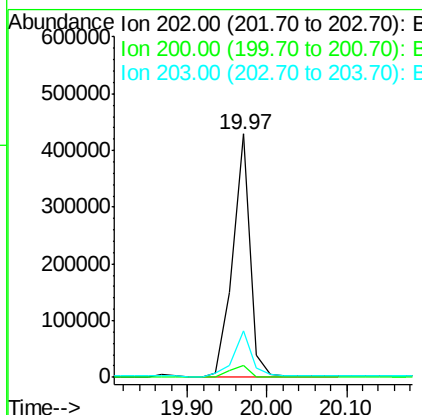
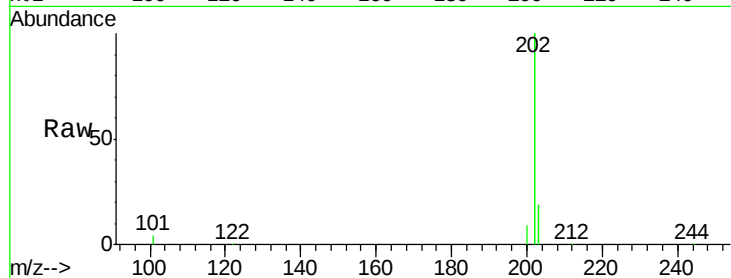
#25
Pyrene
Concen: 5.90 ng
RT: 19.97 min Scan# 1287
Delta R.T. 0.00 min
Lab File: BE092377.D
Acq: 12 Sep 2016 18:23

Instrument :
BNA_E
ClientSampleId :
NC-TS-005MSD

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	5.4	4.2	6.4
203	19.8	13.9	20.9

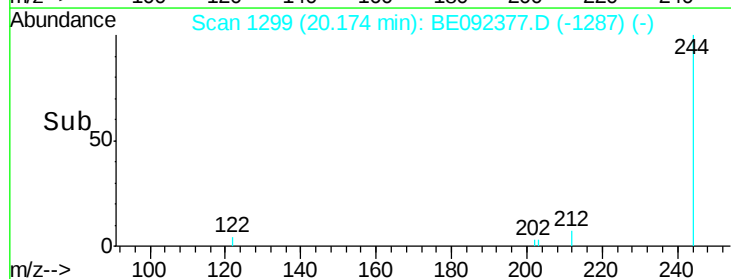
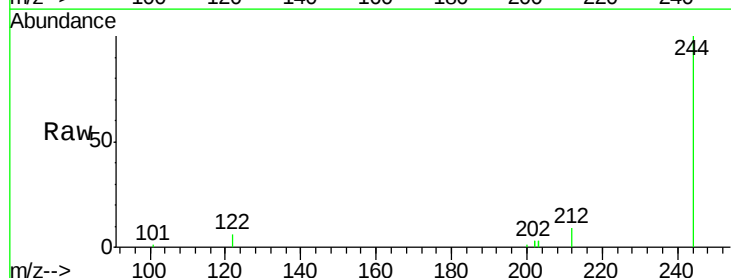
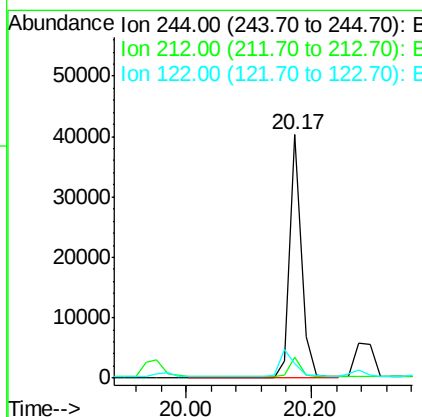
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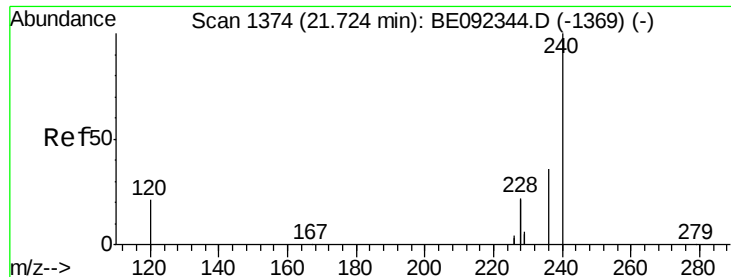
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#26
Terphenyl-d14
Concen: 3.11 ng
RT: 20.17 min Scan# 1299
Delta R.T. 0.00 min
Lab File: BE092377.D
Acq: 12 Sep 2016 18:23

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	8.7	6.7	10.1
122	5.8	3.6	5.4#





#27

Benzo(a)anthracene

Concen: 5.11 ng m

RT: 21.72 min Scan# 1374

Delta R.T. 0.00 min

Lab File: BE092377.D

Acq: 12 Sep 2016 18:23

Instrument :

BNA_E

ClientSampleId :

NC-TS-005MSD

Tgt Ion:228 Resp: 617561
Ion Ratio Lower Upper

228 100

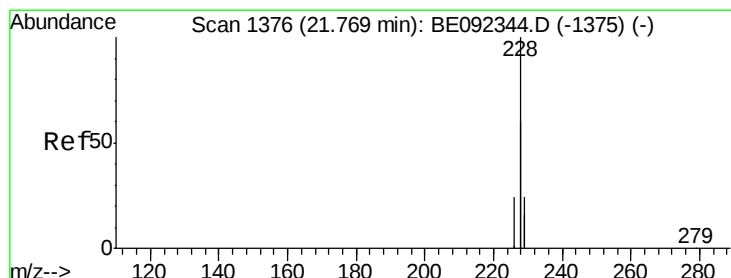
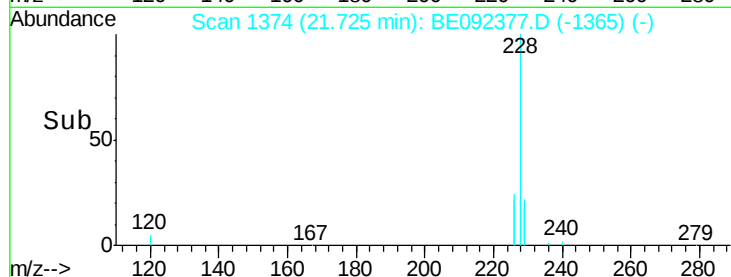
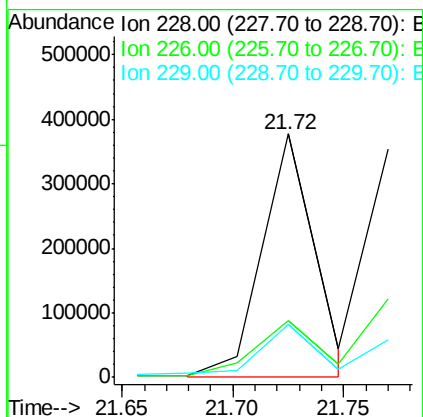
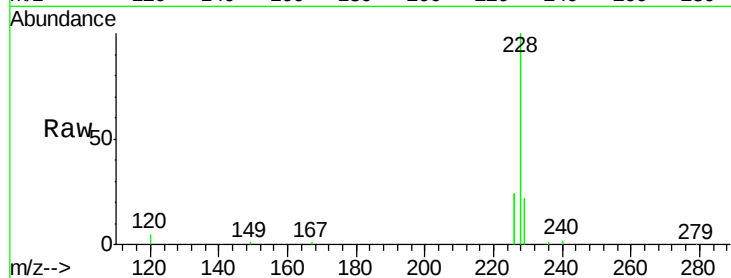
226 23.6 23.6 35.4#

229 22.0 13.3 19.9#

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#28

Chrysene

Concen: 4.87 ng m

RT: 21.77 min Scan# 1376

Delta R.T. 0.00 min

Lab File: BE092377.D

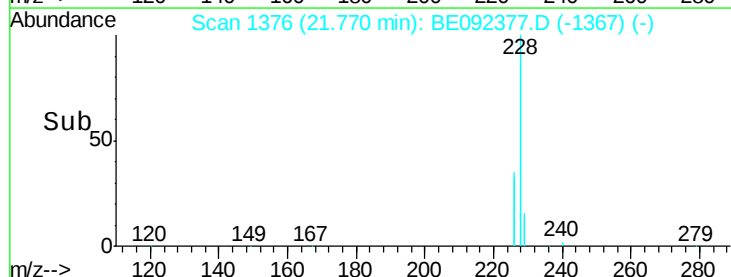
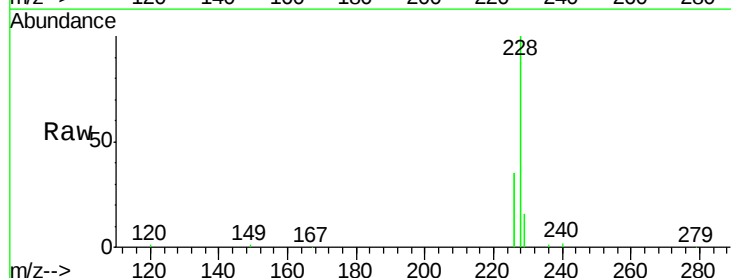
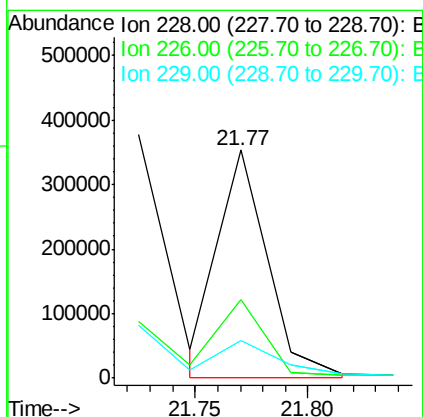
Acq: 12 Sep 2016 18:23

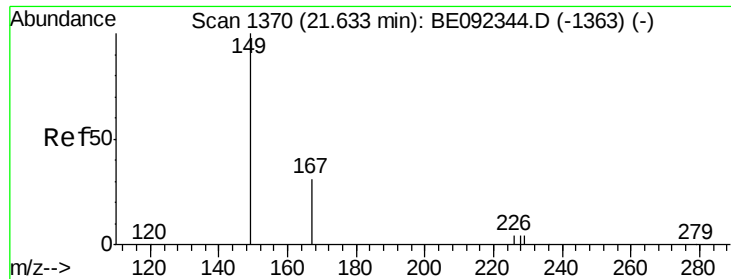
Tgt Ion:228 Resp: 544760
Ion Ratio Lower Upper

228 100

226 34.7 36.3 54.5#

229 16.2 10.6 16.0#





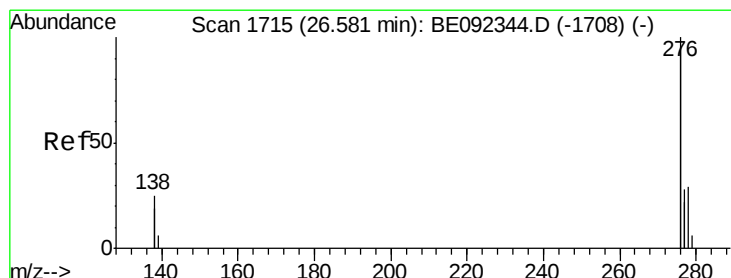
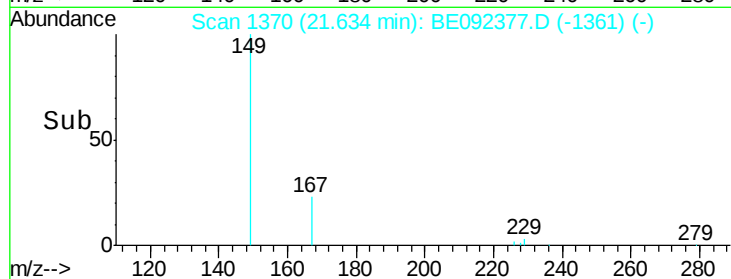
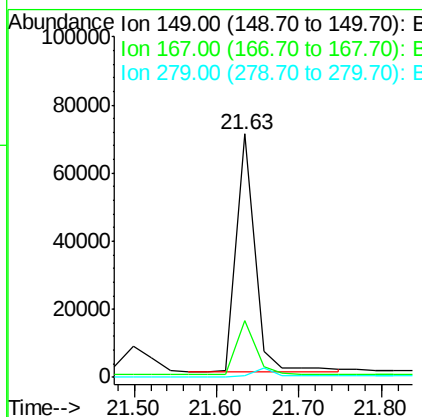
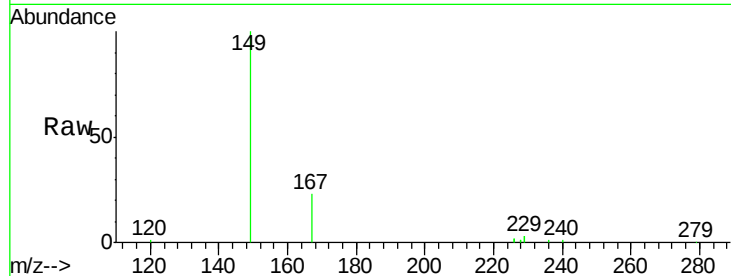
#29
 Bis(2-ethylhexyl)phthalate
 Concen: Below Cal
 RT: 21.63 min Scan# 1370
 Delta R.T. 0.00 min
 Lab File: BE092377.D
 Acq: 12 Sep 2016 18:23

Instrument :
 BNA_E
 ClientSampleId :
 NC-TS-005MSD

Tgt Ion	Ratio	Resp Lower	Resp Upper
149	100		
167	24.6	16.0	24.0#
279	0.0	16.0	24.0#

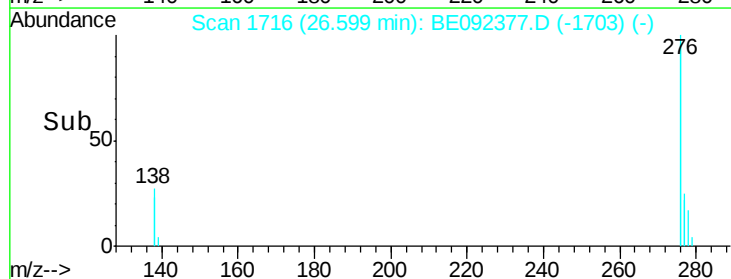
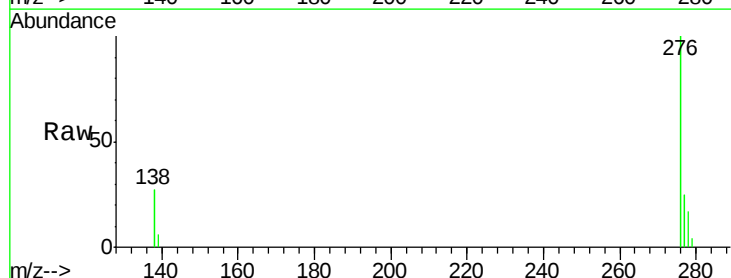
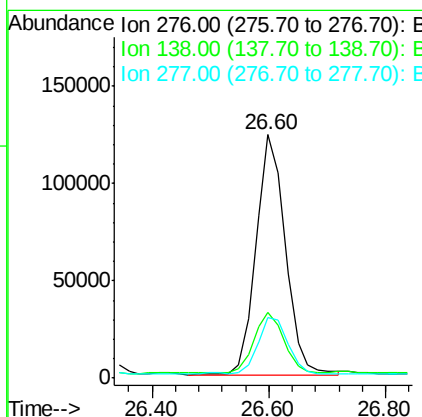
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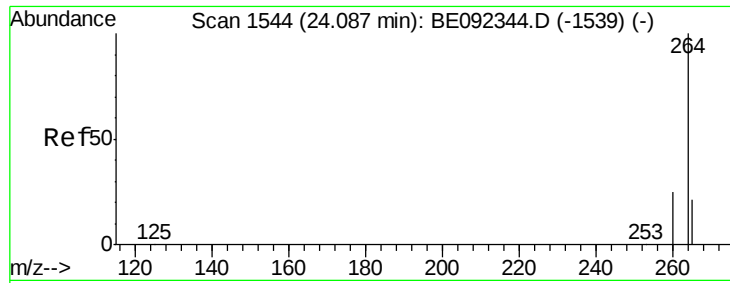
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#30
 Indeno(1,2,3-cd)pyrene
 Concen: 3.39 ng
 RT: 26.60 min Scan# 1716
 Delta R.T. 0.02 min
 Lab File: BE092377.D
 Acq: 12 Sep 2016 18:23

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	25.7	20.3	30.5
277	24.3	19.7	29.5





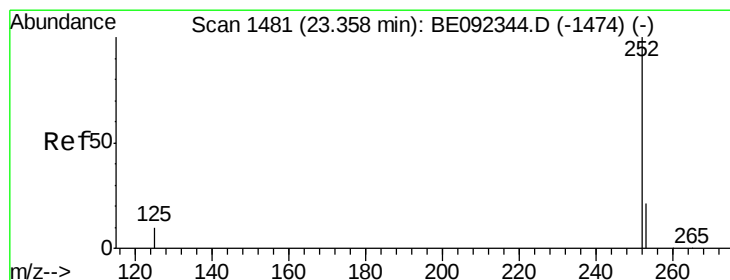
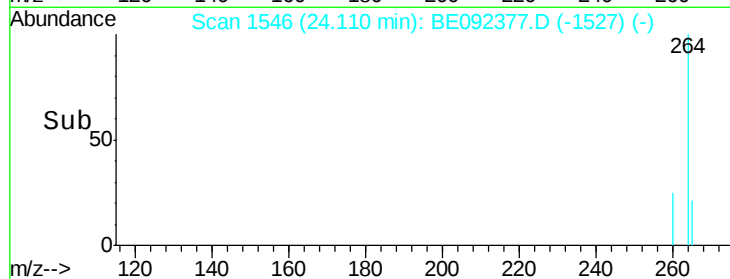
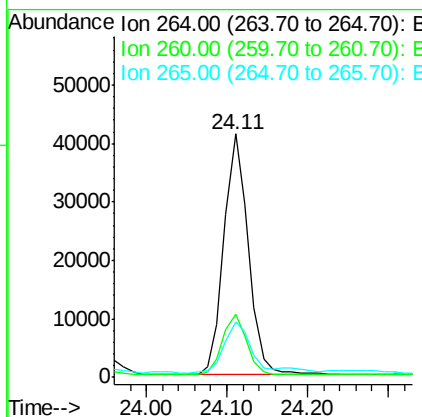
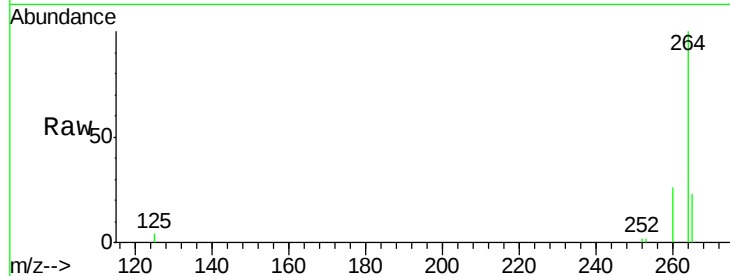
#31
Perylene-d12
 Concen: 5.00 ng
 RT: 24.11 min Scan# 1546
 Delta R.T. 0.02 min
 Lab File: BE092377.D
 Acq: 12 Sep 2016 18:23

Instrument :
 BNA_E
 ClientSampleId :
 NC-TS-005MSD

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	86597		
260	26.0		20.1	30.1
265	22.8		17.9	26.9

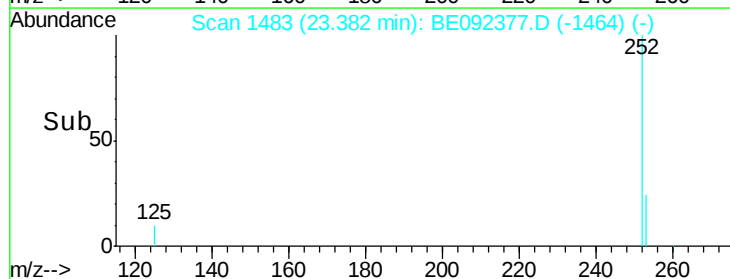
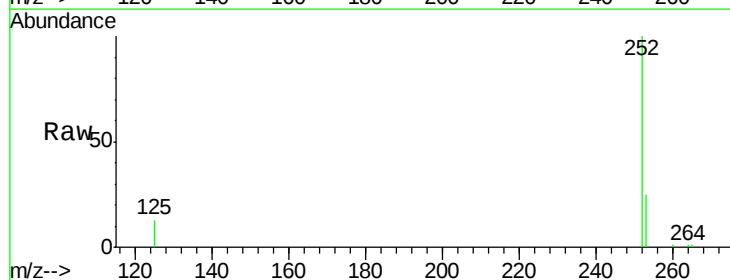
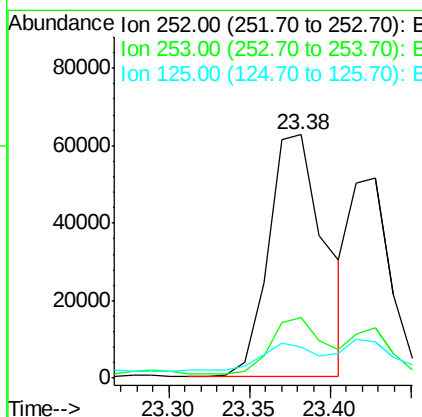
Manual Integrations
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#32
Benzo(b)fluoranthene
 Concen: 6.79 ng
 RT: 23.38 min Scan# 1483
 Delta R.T. 0.02 min
 Lab File: BE092377.D
 Acq: 12 Sep 2016 18:23

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	150870		
253	24.9		18.7	28.1
125	12.8		10.5	15.7





#33

Benzo(k)fluoranthene

Concen: 3.72 ng m

RT: 23.43 min Scan# 1487

Delta R.T. 0.02 min

Lab File: BE092377.D

Acq: 12 Sep 2016 18:23

Instrument :

BNA_E

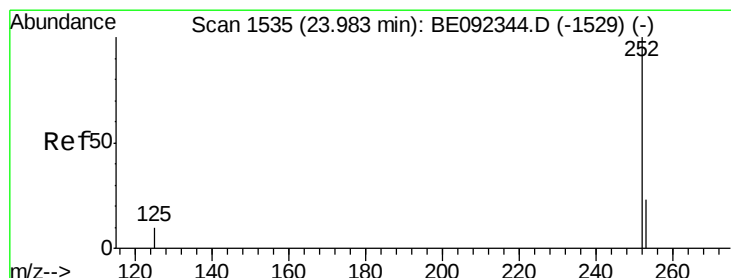
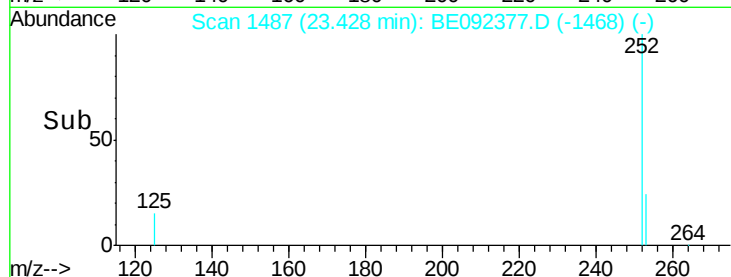
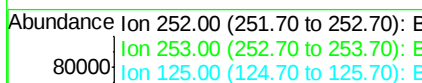
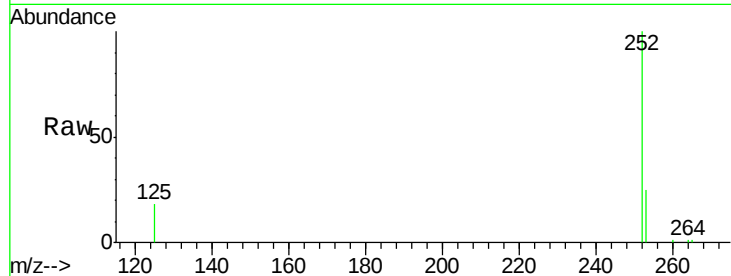
ClientSampleId :

NC-TS-005MSD

Tgt Ion:	252	Resp:	87377
Ion Ratio	Lower	Upper	
252	100		
253	24.9	20.3	30.5
125	18.0	9.6	14.4#

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#34

Benzo(a)pyrene

Concen: 5.35 ng

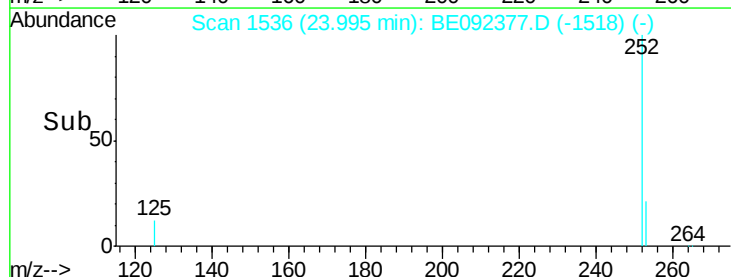
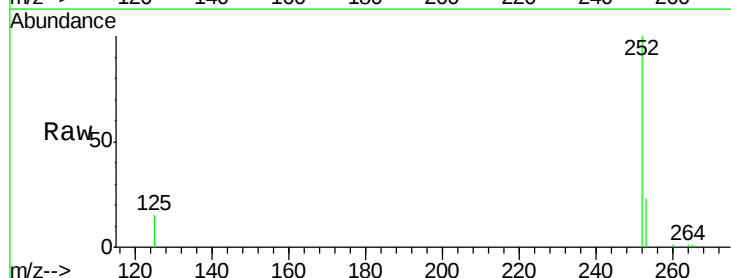
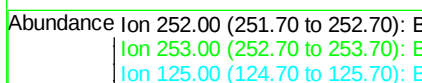
RT: 23.99 min Scan# 1536

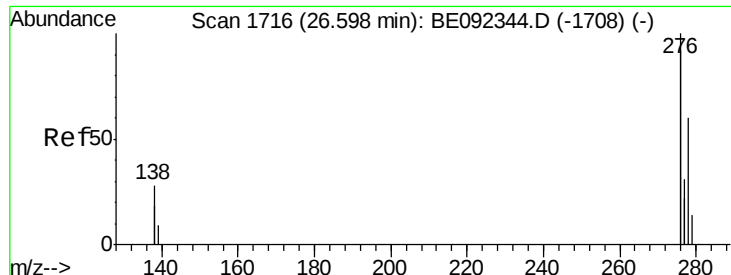
Delta R.T. 0.01 min

Lab File: BE092377.D

Acq: 12 Sep 2016 18:23

Tgt Ion:	252	Resp:	117154
Ion Ratio	Lower	Upper	
252	100		
253	22.7	19.0	28.6
125	14.9	11.8	17.8





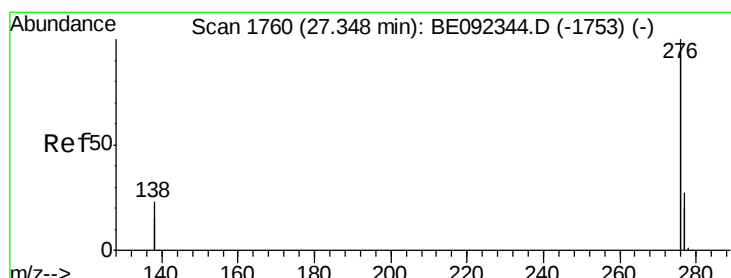
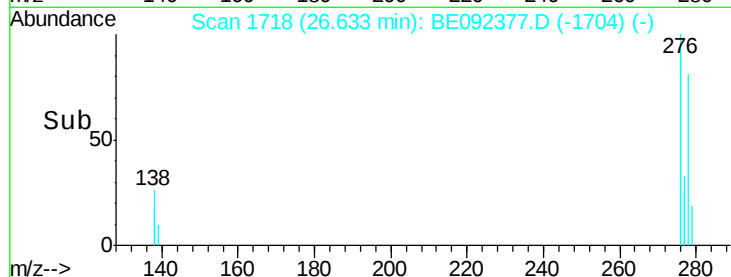
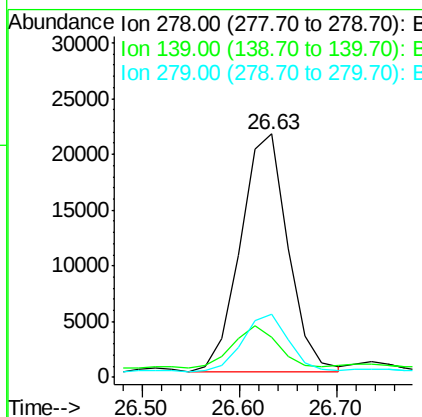
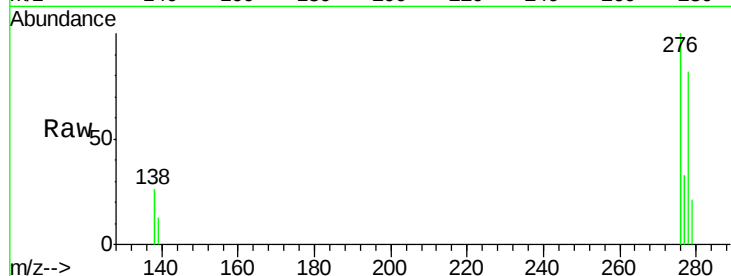
#35
 Dibenzo(a,h)anthracene
 Concen: 3.54 ng
 RT: 26.63 min Scan# 1718
 Delta R.T. 0.04 min
 Lab File: BE092377.D
 Acq: 12 Sep 2016 18:23

Instrument :
 BNA_E
 ClientSampleId :
 NC-TS-005MSD

Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.4	13.8	20.8
279	25.7	21.4	32.2

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#36
 Benzo(g,h,i)perylene
 Concen: 4.49 ng
 RT: 27.38 min Scan# 1762
 Delta R.T. 0.04 min
 Lab File: BE092377.D
 Acq: 12 Sep 2016 18:23

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.3	19.8	29.8
138	23.7	19.8	29.6

