

Data Path : Z:\HPCHEM1\BNA E\DATA\BE032817\
 Data File : BE092843.D
 Acq On : 28 Mar 2017 19:06
 Operator : SJ/MA
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations
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 3/29/2017 2:37:31 PM

Quant Time: Mar 29 05:52:08 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE032817.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 28 14:58:05 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.77	152	7410	5.00	ng	-0.02
7) Naphthalene-d8	10.54	136	33663	5.00	ng	0.00
12) Acenaphthene-d10	14.40	164	16649	5.00	ng	0.00
18) Phenanthrene-d10	17.16	188	37178	5.00	ng	0.00
24) Chrysene-d12	21.28	240	44866	5.00	ng	-0.02
31) Perylene-d12	23.71	264	38464	5.00	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.36	112	658	0.38	ng	0.00
5) Phenol-d6	6.94	99	922m	0.36	ng	0.00
8) Nitrobenzene-d5	8.93	82	742	0.38	ng	0.00
13) 2,4,6-Tribromophenol	15.88	330	88	0.34	ng	0.00
14) 2-Fluorobiphenyl	13.02	172	2213	0.40	ng	-0.01
26) Terphenyl-d14	19.76	244	2723	0.35	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	3.32	88	416	0.42	ng	92
3) n-Nitrosodimethylamine	3.61	42	387	0.38	ng	# 83
6) bis(2-Chloroethyl)ether	7.20	93	983	0.41	ng	# 46
9) Naphthalene	10.58	128	2954	0.40	ng	97
10) Hexachlorobutadiene	10.89	225	385	0.39	ng	99
11) 2-Methylnaphthalene	12.21	142	1816	0.39	ng	94
15) Acenaphthylene	14.11	152	8704	0.34	ng	100
16) Acenaphthene	14.45	154	1733	0.38	ng	85
17) Fluorene	15.44	166	2073	0.38	ng	98
19) Hexachlorobenzene	16.47	284	590	0.43	ng	# 66
20) Pentachlorophenol	16.81	266	115	0.48	ng	95
21) Phenanthrene	17.18	178	4113	0.45	ng	# 95
22) Anthracene	17.27	178	3214	0.39	ng	100
23) Fluoranthene	19.18	202	15392	0.37	ng	99
25) Pyrene	19.54	202	16499	0.37	ng	99
27) Benzo(a)anthracene	21.26	228	3919	0.37	ng	97
28) Chrysene	21.31	228	4454	0.40	ng	# 81
29) Bis(2-ethylhexyl)phthalate	21.21	149	882	0.34	ng	# 77
30) Indeno(1,2,3-cd)pyrene	26.24	276	14480	0.34	ng	# 92
32) Benzo(b)fluoranthene	22.96	252	3576	0.35	ng	# 97
33) Benzo(k)fluoranthene	23.01	252	3506	0.38	ng	# 94
34) Benzo(a)pyrene	23.60	252	2818	0.33	ng	# 93
35) Dibenzo(a,h)anthracene	26.27	278	3247	0.36	ng	# 92
36) Benzo(g,h,i)perylene	27.02	276	13651	0.37	ng	# 92

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

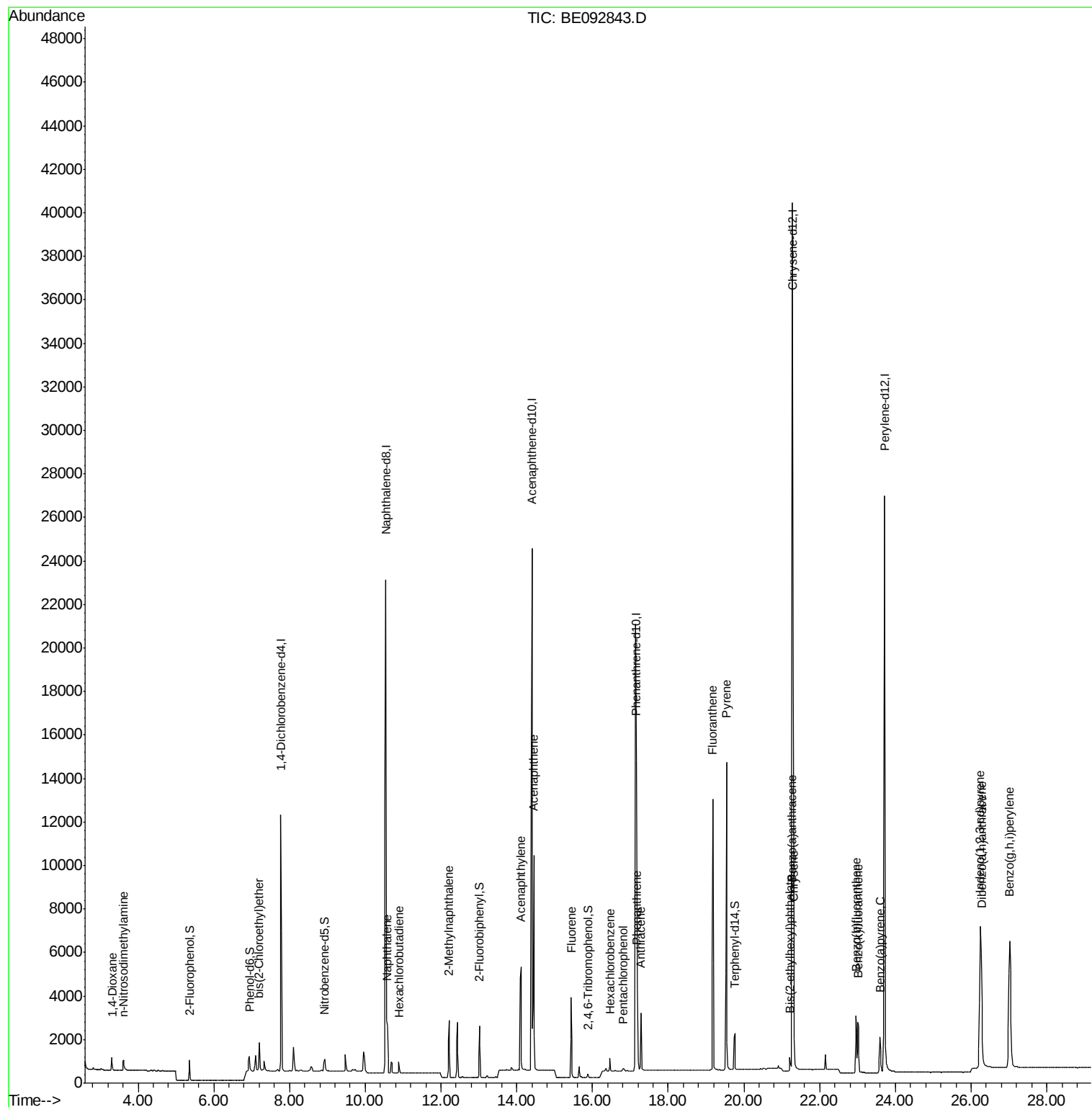
Data Path : Z:\HPCHEM1\BNA E\DATA\BE032817\
Data File : BE092843.D
Acq On : 28 Mar 2017 19:06
Operator : SJ/MA
Sample : SSTDCCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

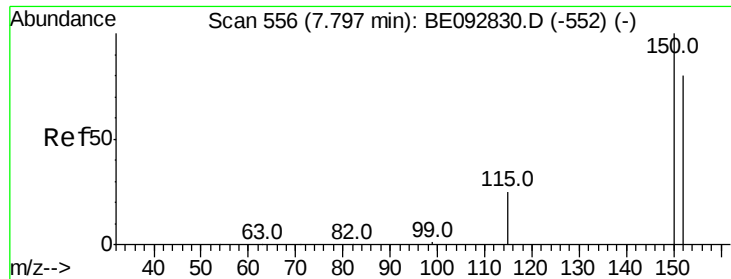
Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4EC

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QLast Update : Tue Mar 28 14:58:05 2017
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.77 min Scan# 555

Delta R.T. -0.02 min

Lab File: BE092843.D

Acq: 28 Mar 2017 19:06

Instrument :

BNA_E

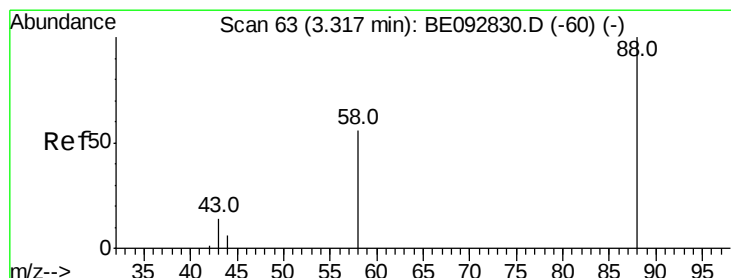
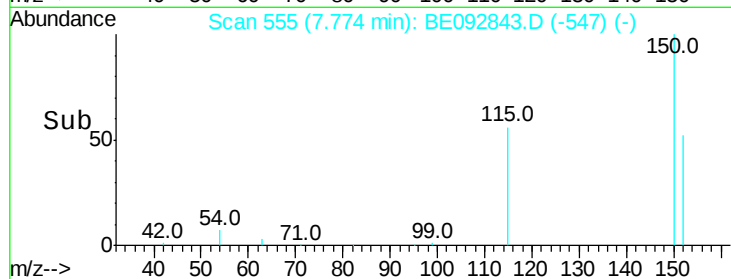
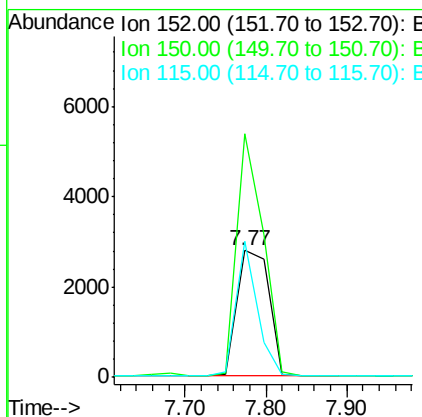
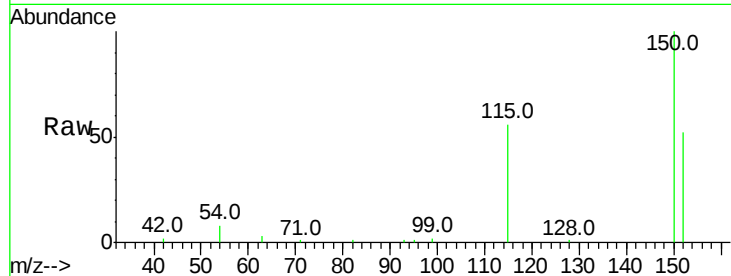
ClientSampleId :

SSTDCCC0.4EC

Tot Ion	Ratio	Lower	Upper
152	100		
150	192.2	106.0	159.0#
115	107.7	31.2	46.8#

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#2

1,4-Dioxane

Concen: 0.42 ng

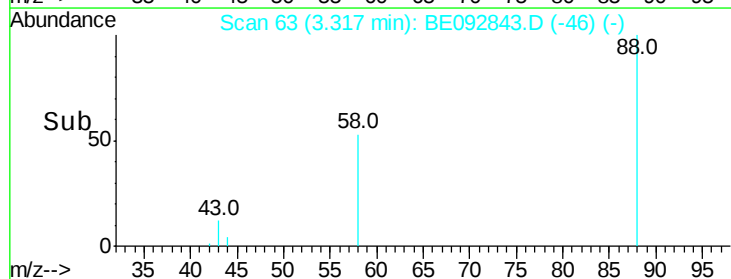
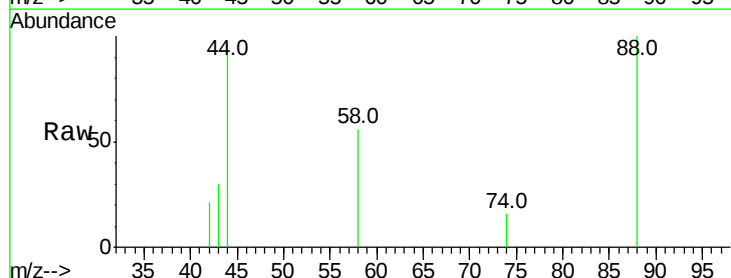
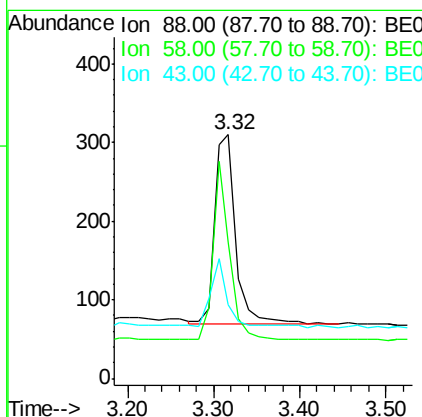
RT: 3.32 min Scan# 63

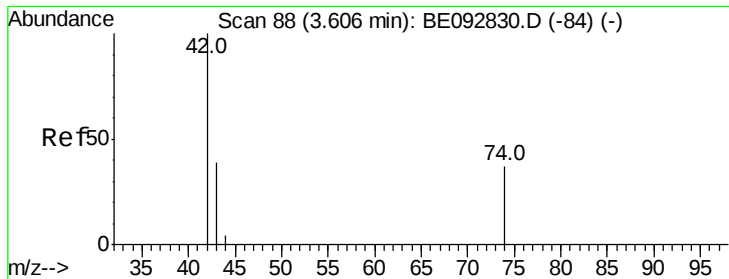
Delta R.T. 0.00 min

Lab File: BE092843.D

Acq: 28 Mar 2017 19:06

Tgt Ion	Ratio	Lower	Upper
88	100		
58	73.1	63.6	95.4
43	29.3	28.0	42.0





#3

n-Nitrosodimethylamine

Concen: 0.38 ng

RT: 3.61 min Scan# 88

Delta R.T. 0.00 min

Lab File: BE092843.D

Acq: 28 Mar 2017 19:06

Instrument :

BNA_E

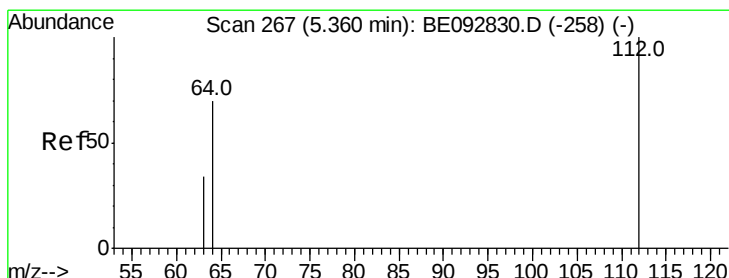
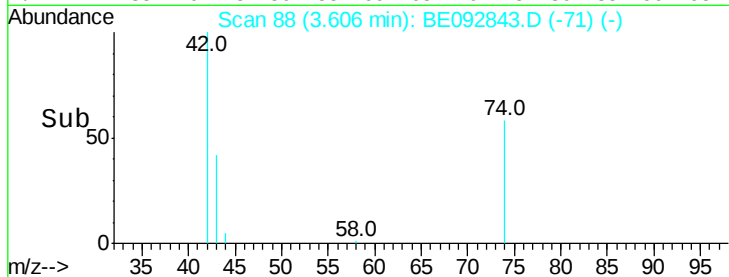
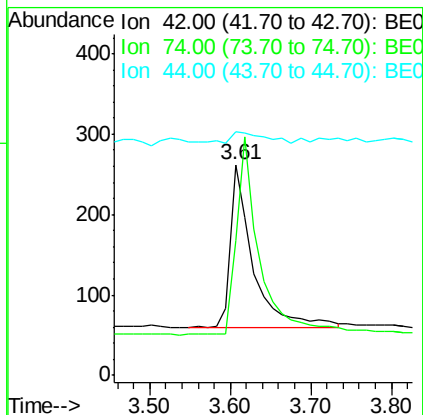
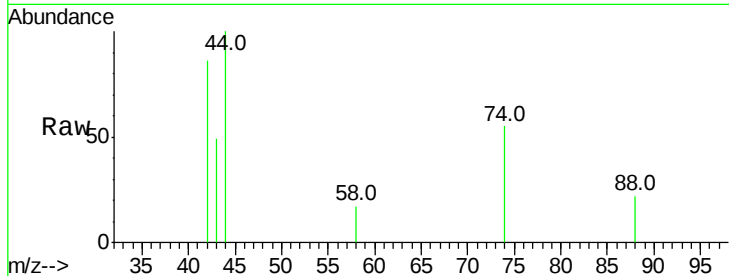
ClientSampleId :

SSTDCCC0.4EC

Tot Ion:	42	Resp:	387
Ion Ratio	Lower	Upper	
42	100		
74	126.1	86.0	129.0
44	10.3	5.1	7.7#

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#4

2-Fluorophenol

Concen: 0.38 ng

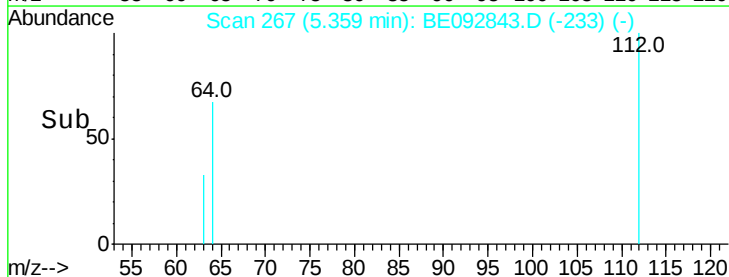
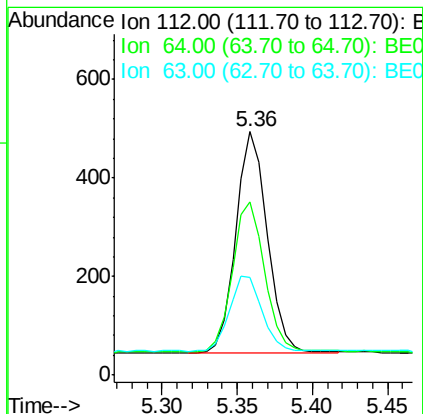
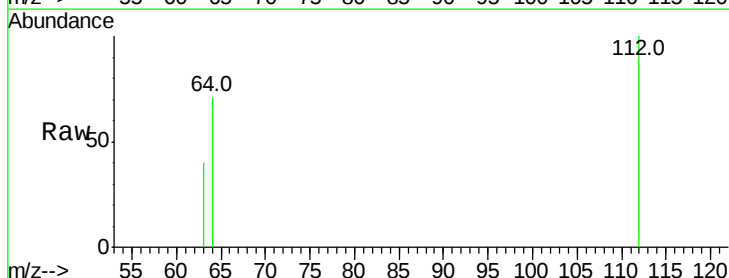
RT: 5.36 min Scan# 267

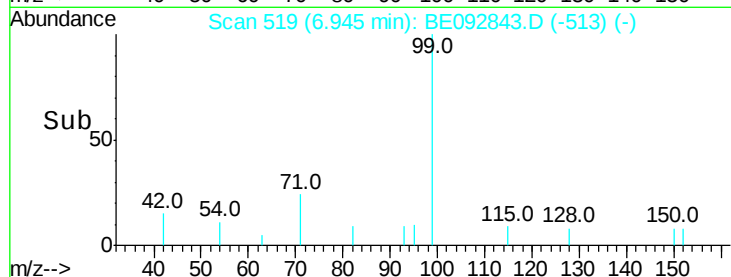
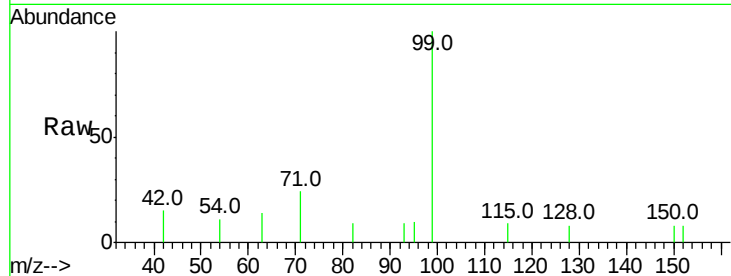
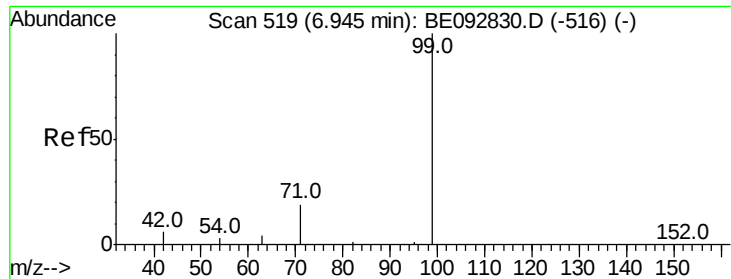
Delta R.T. -0.00 min

Lab File: BE092843.D

Acq: 28 Mar 2017 19:06

Tgt Ion:	112	Resp:	658
Ion Ratio	Lower	Upper	
112	100		
64	69.5	53.5	80.3
63	36.0	27.9	41.9





#5

Phenol-d6

Concen: 0.36 ng/mL

RT: 6.94 min Scan# 519

Delta R.T. -0.00 min

Lab File: BE092843.D

Acq: 28 Mar 2017 19:06

Tot Ion	99	Resp	922
Ion	Ratio	Lower	Upper
99	100		
42	0.0	16.0	24.0#
71	0.0	30.6	45.8#

Instrument :

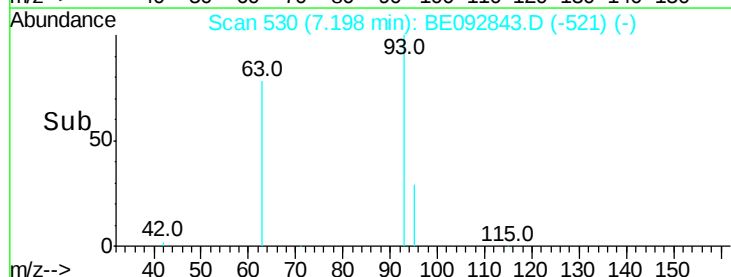
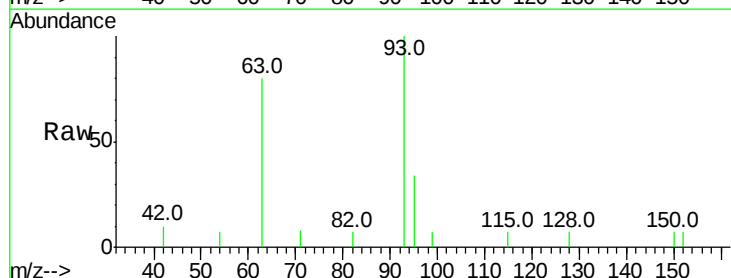
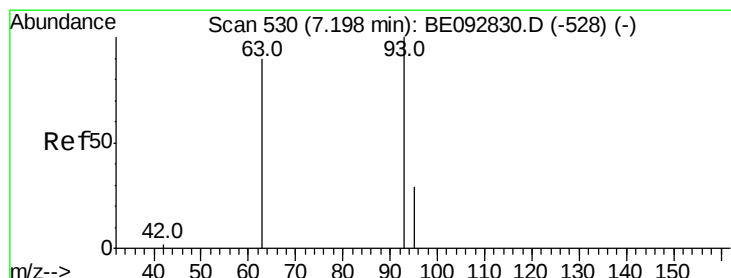
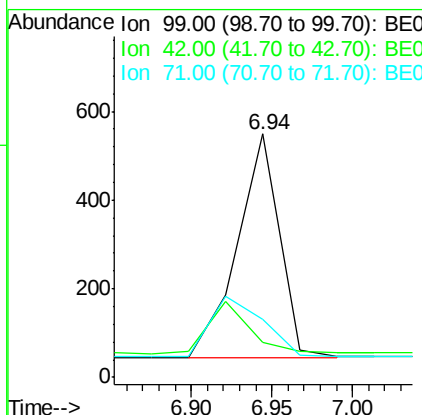
BNA_E

ClientSampleId :

SSTDCCC0.4EC

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#6

bis(2-Chloroethyl)ether

Concen: 0.41 ng/mL

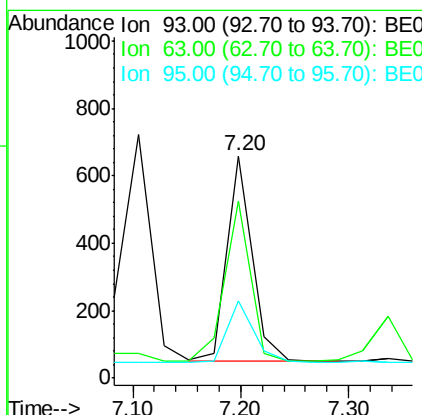
RT: 7.20 min Scan# 530

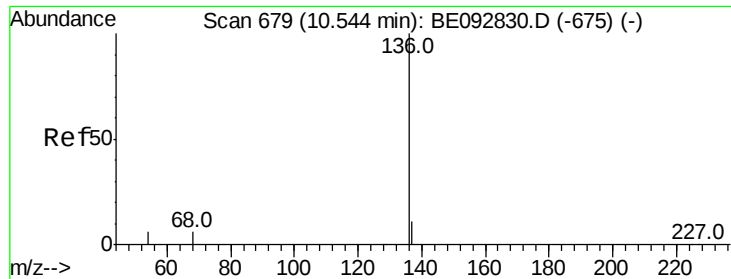
Delta R.T. -0.00 min

Lab File: BE092843.D

Acq: 28 Mar 2017 19:06

Tgt Ion	93	Resp	983
Ion	Ratio	Lower	Upper
93	100		
63	80.3	16.0	24.0#
95	31.5	24.0	36.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.54 min Scan# 679

Delta R.T. 0.00 min

Lab File: BE092843.D

Acq: 28 Mar 2017 19:06

Instrument :

BNA_E

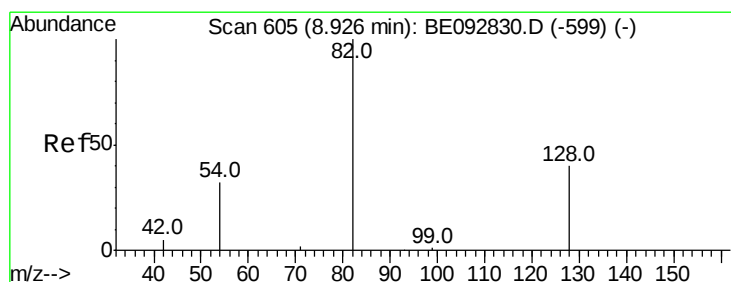
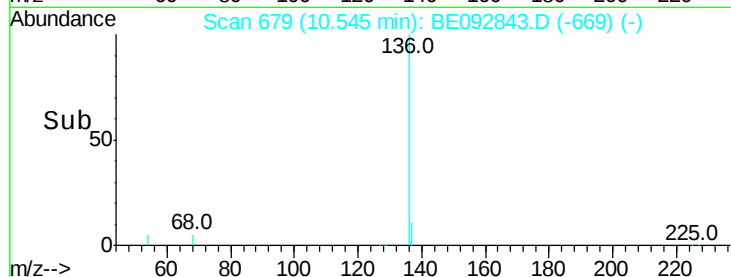
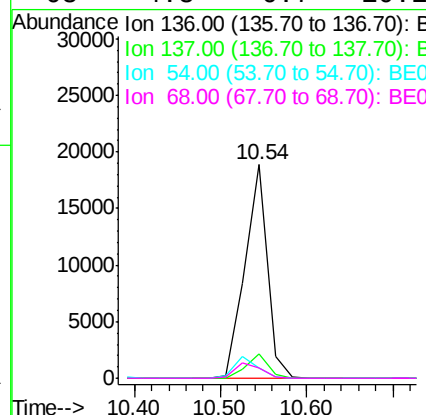
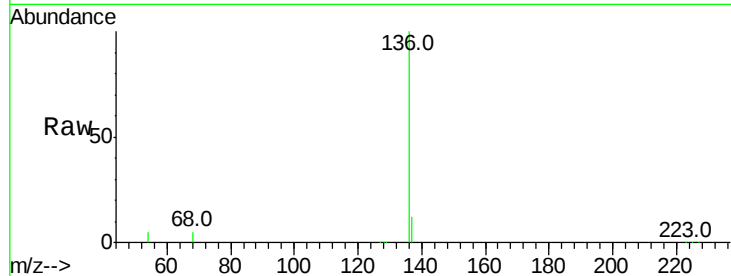
ClientSampleId :

SSTDCCC0.4EC

Tot Ion:	136	Resp:	33663
Ion Ratio	Lower	Upper	
136	100		
137	11.6	8.2	12.4
54	4.8	9.6	14.4#
68	4.8	6.7	10.1#

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#8

Nitrobenzene-d5

Concen: 0.38 ng

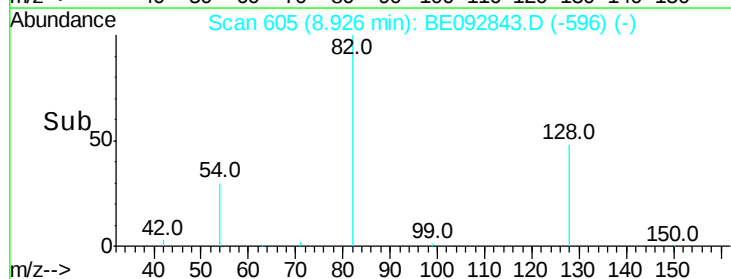
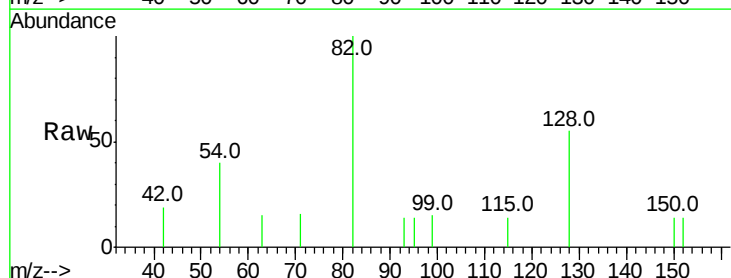
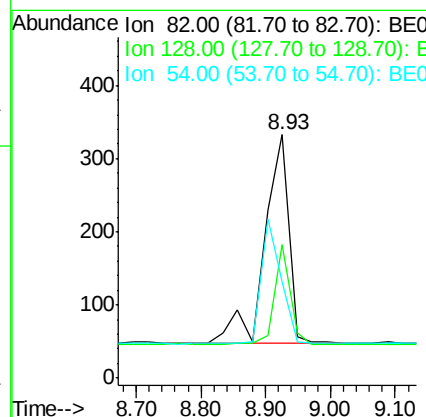
RT: 8.93 min Scan# 605

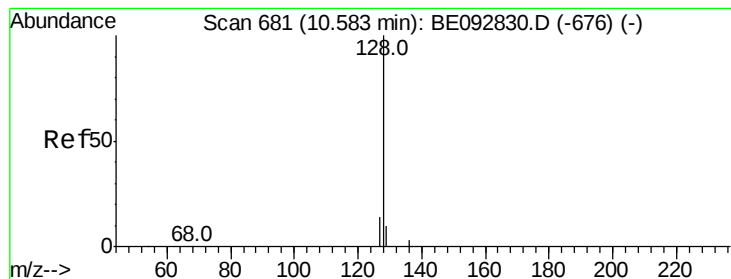
Delta R.T. -0.00 min

Lab File: BE092843.D

Acq: 28 Mar 2017 19:06

Tgt Ion:	82	Resp:	742
Ion Ratio	Lower	Upper	
82	100		
128	54.7	39.0	58.4
54	39.6	44.8	67.2#





#9

Naphthalene

Concen: 0.40 ng

RT: 10.58 min Scan# 681

Delta R.T. 0.00 min

Lab File: BE092843.D

Acq: 28 Mar 2017 19:06

Instrument :

BNA_E

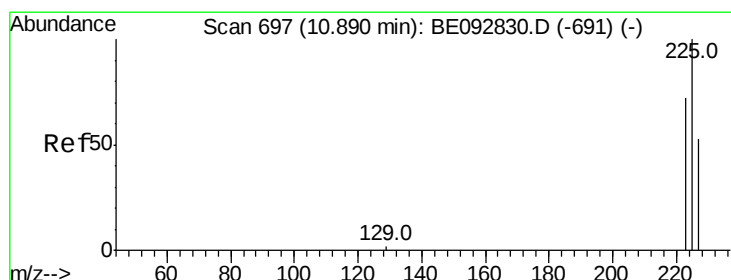
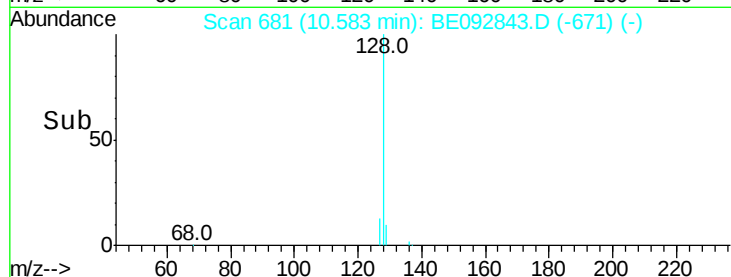
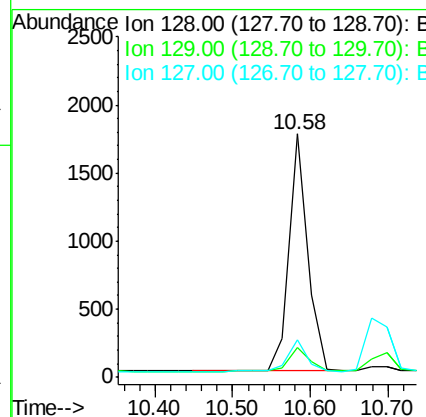
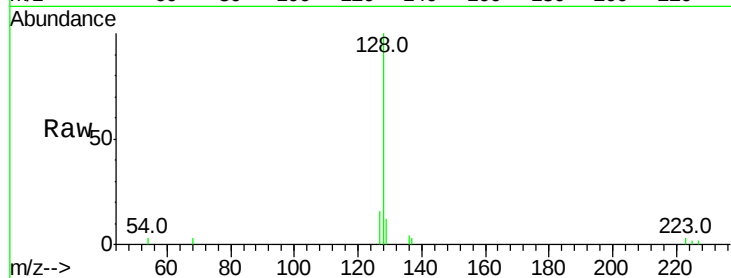
ClientSampleId :

SSTDCCC0.4EC

Tot Ion:	128	Resp:	2954
Ion	Ratio	Lower	Upper
128	100		
129	12.5	11.2	16.8
127	15.5	11.6	17.4

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#10

Hexachlorobutadiene

Concen: 0.39 ng

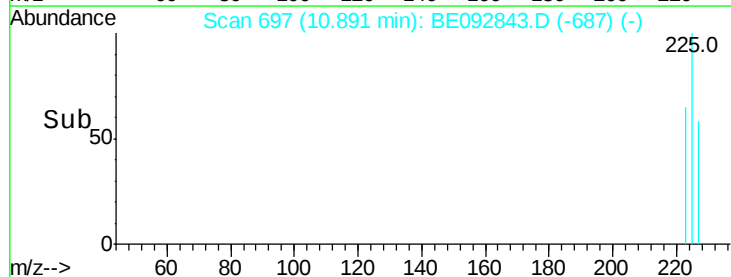
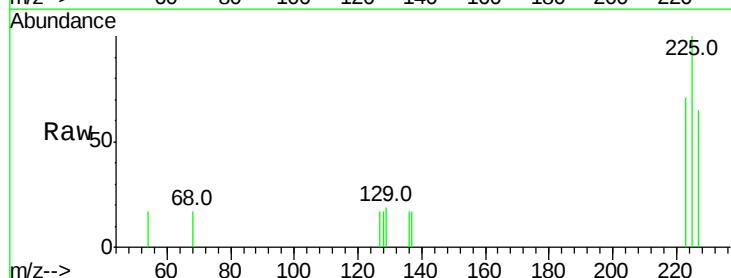
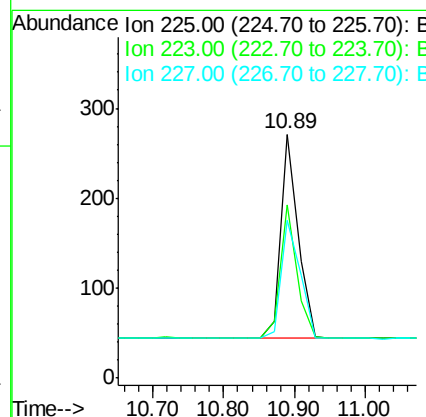
RT: 10.89 min Scan# 697

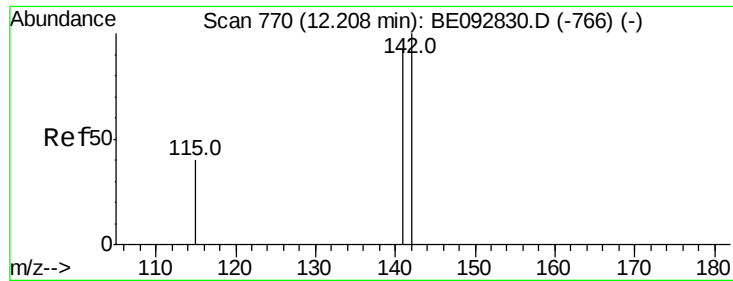
Delta R.T. 0.00 min

Lab File: BE092843.D

Acq: 28 Mar 2017 19:06

Tgt Ion:	225	Resp:	385
Ion	Ratio	Lower	Upper
225	100		
223	62.3	50.6	76.0
227	62.9	51.4	77.0





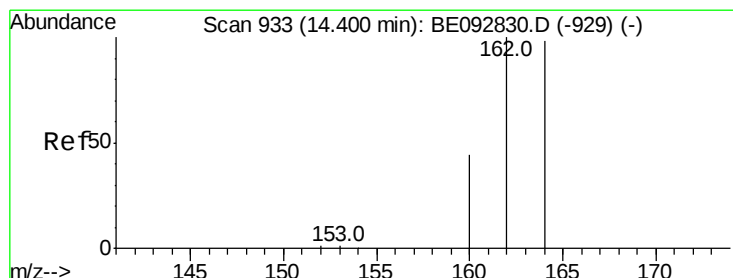
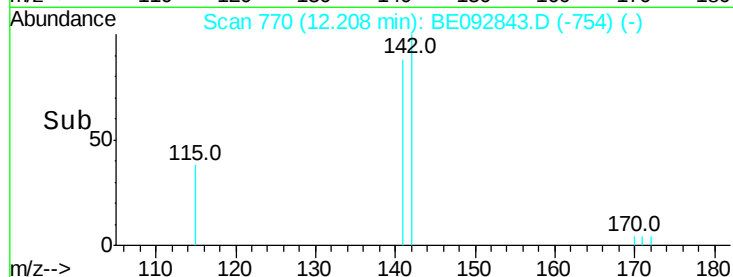
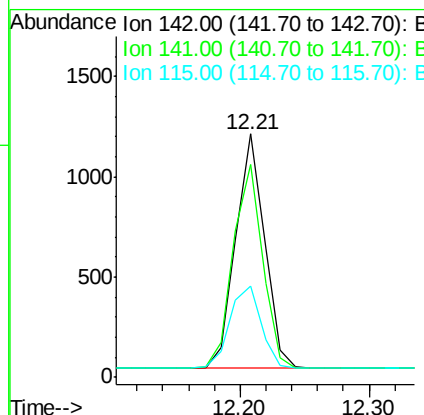
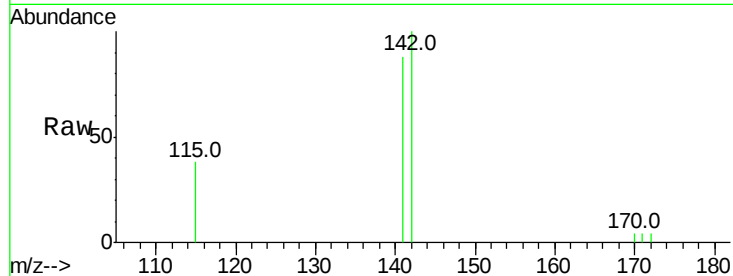
#11
2-Methylnaphthalene
Concen: 0.39 ng
RT: 12.21 min Scan# 770
Delta R.T. 0.00 min
Lab File: BE092843.D
Acq: 28 Mar 2017 19:06

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4EC

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.6	73.7	110.5
115	37.7	34.0	51.0

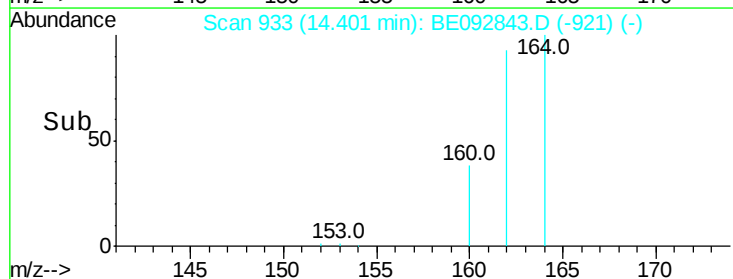
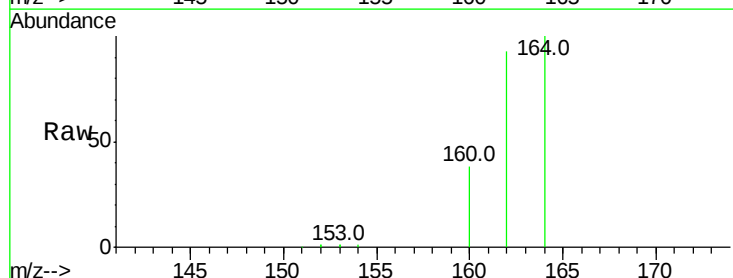
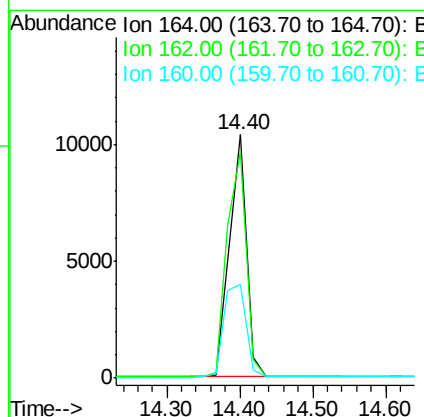
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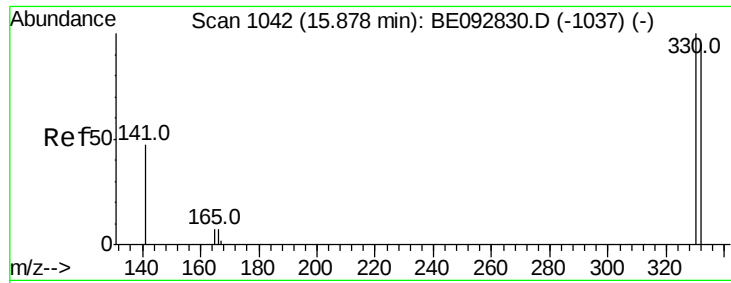
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.40 min Scan# 933
Delta R.T. 0.00 min
Lab File: BE092843.D
Acq: 28 Mar 2017 19:06

Tgt Ion	Ratio	Lower	Upper
164	100		
162	92.6	71.4	107.0
160	38.3	27.4	41.2





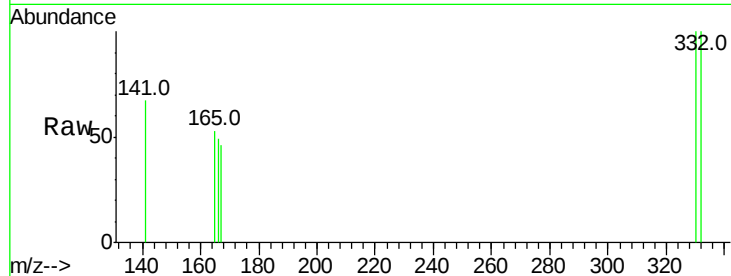
#13
 2,4,6-Tribromophenol
 Concen: 0.34 ng
 RT: 15.88 min Scan# 1042
 Delta R.T. -0.00 min
 Lab File: BE092843.D
 Acq: 28 Mar 2017 19:06

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC0.4EC

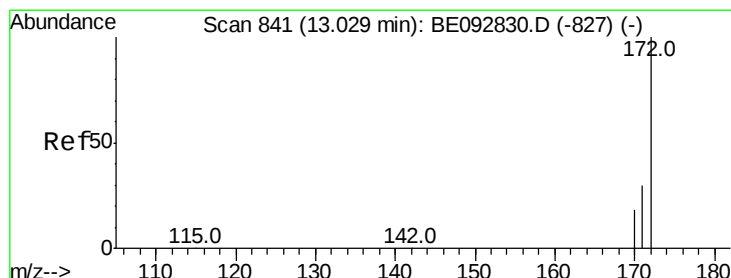
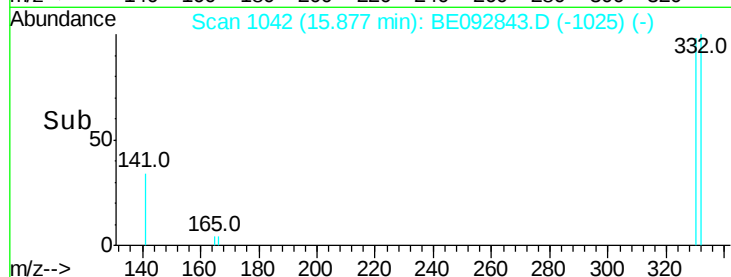
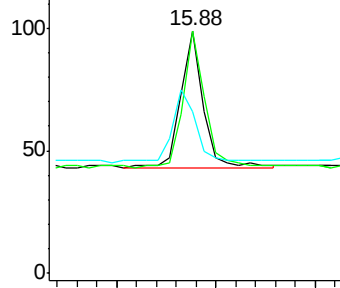
Tot Ion:330 Resp: 88
 Ion Ratio Lower Upper
 330 100
 332 97.7 75.4 113.0
 141 63.6 31.0 46.6#

Manual Integrations
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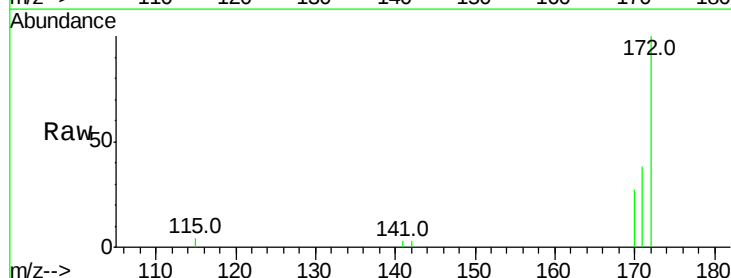


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

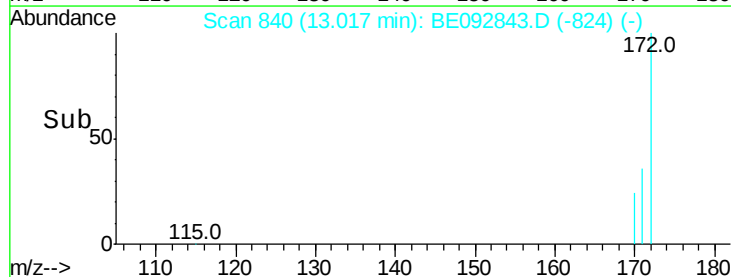
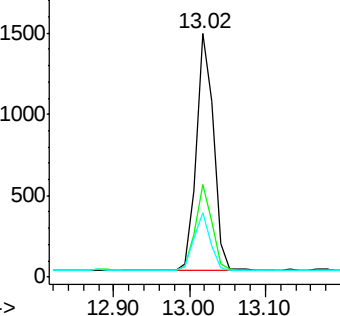


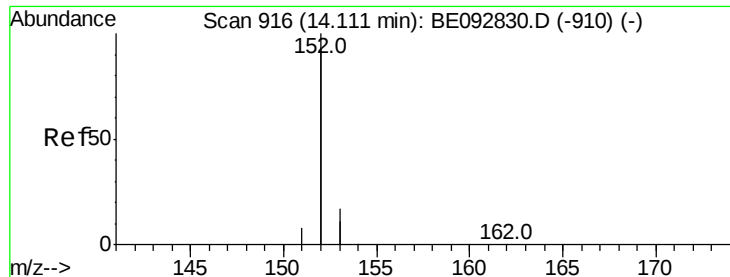
#14
 2-Fluorobiphenyl
 Concen: 0.40 ng
 RT: 13.02 min Scan# 840
 Delta R.T. -0.01 min
 Lab File: BE092843.D
 Acq: 28 Mar 2017 19:06

Tgt Ion:172 Resp: 2213
 Ion Ratio Lower Upper
 172 100
 171 37.9 30.1 45.1
 170 26.7 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: 0.34 ng

RT: 14.11 min Scan# 916

Delta R.T. 0.00 min

Lab File: BE092843.D

Acq: 28 Mar 2017 19:06

Instrument :

BNA_E

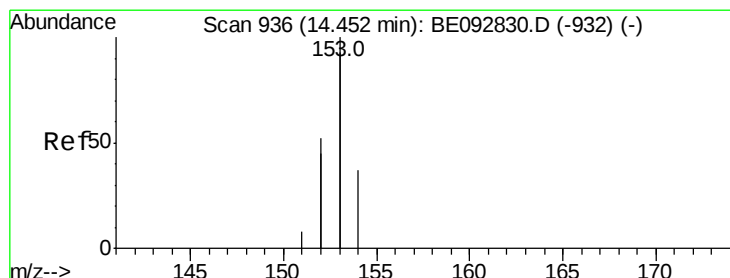
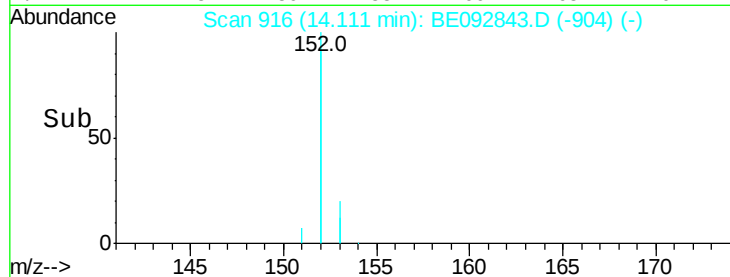
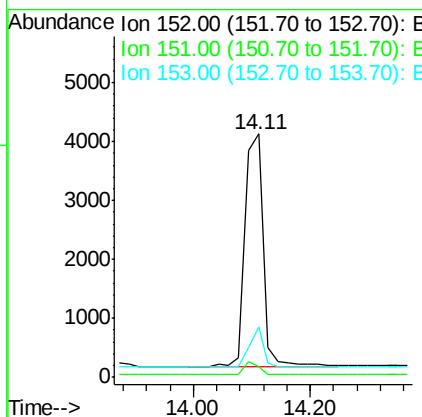
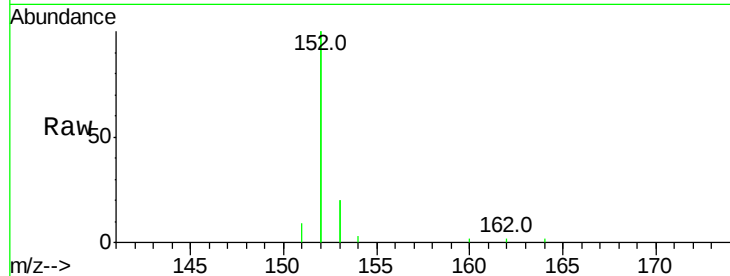
ClientSampleId :

SSTDCCC0.4EC

Tot Ion:	152	Resp:	8704
Ion	Ratio	Lower	Upper
152	100		
151	4.8	3.9	5.9
153	13.2	10.4	15.6

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#16

Acenaphthene

Concen: 0.38 ng

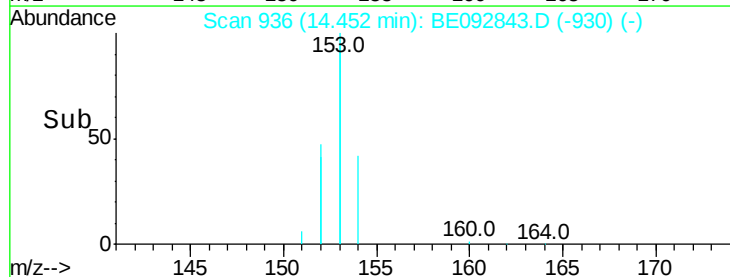
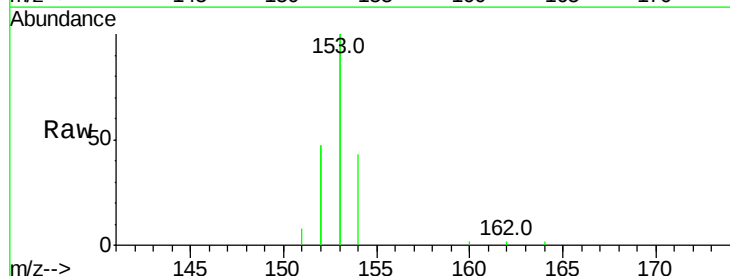
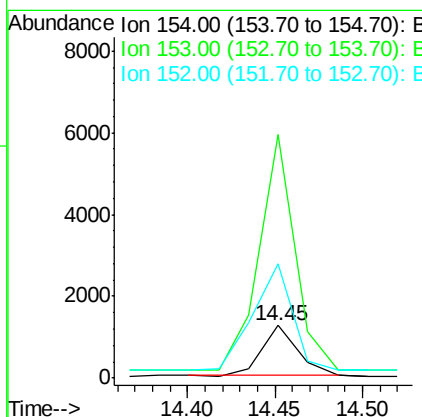
RT: 14.45 min Scan# 936

Delta R.T. 0.00 min

Lab File: BE092843.D

Acq: 28 Mar 2017 19:06

Tgt Ion:	154	Resp:	1733
Ion	Ratio	Lower	Upper
154	100		
153	477.3	350.8	526.2
152	238.8	171.1	256.7





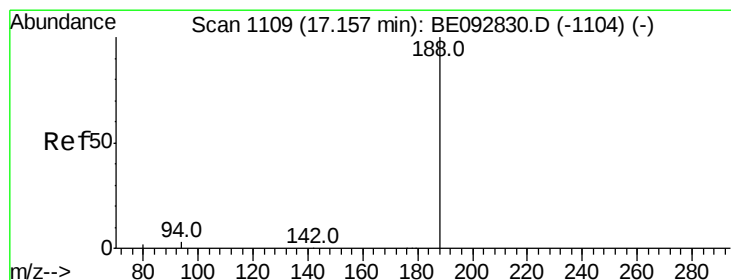
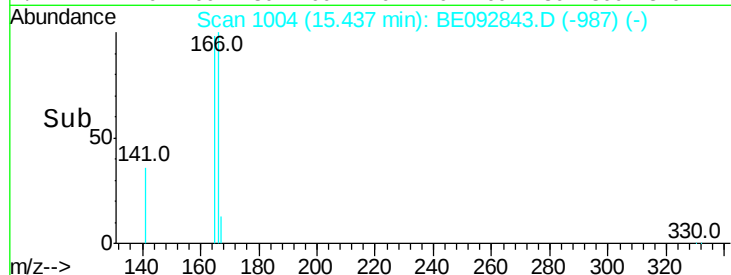
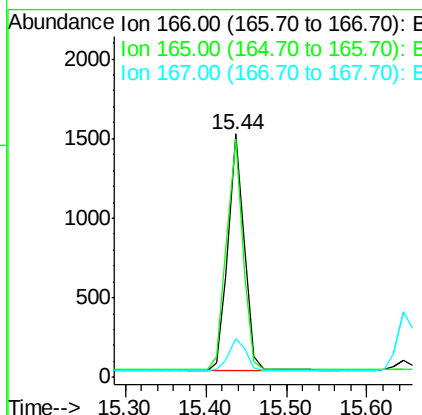
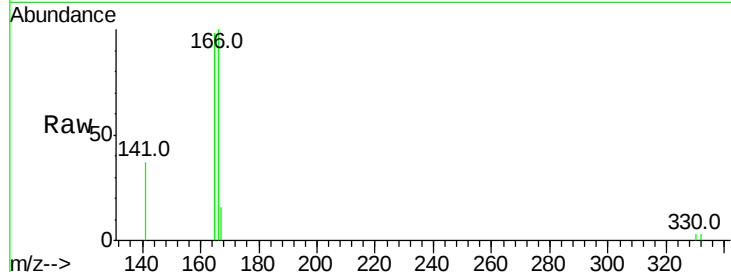
#17
Fluorene
Concen: 0.38 ng
RT: 15.44 min Scan# 1004
Delta R.T. -0.00 min
Lab File: BE092843.D
Acq: 28 Mar 2017 19:06

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4EC

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.5	78.2	117.4
167	13.9	11.0	16.4

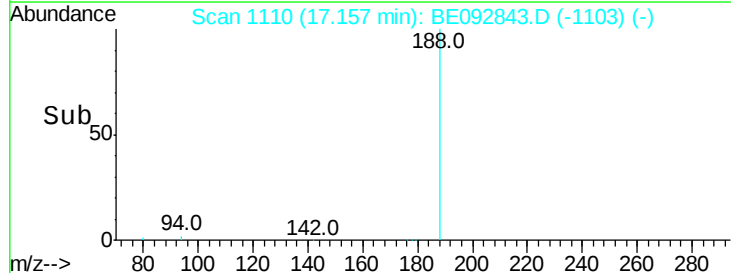
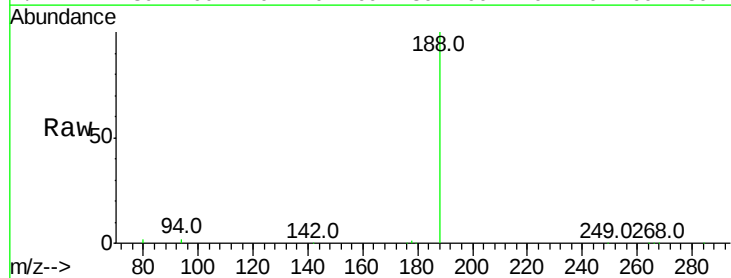
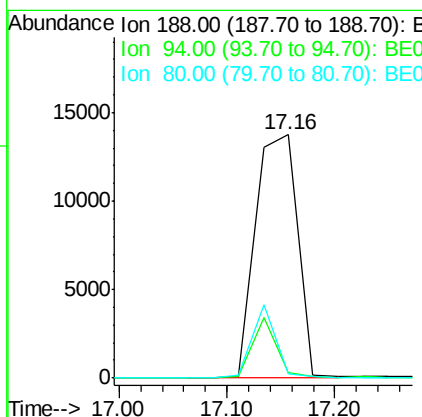
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#18
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.16 min Scan# 1110
Delta R.T. 0.00 min
Lab File: BE092843.D
Acq: 28 Mar 2017 19:06

Tgt Ion	Ratio	Lower	Upper
188	100		
94	2.3	3.2	4.8#
80	1.8	2.6	3.8#





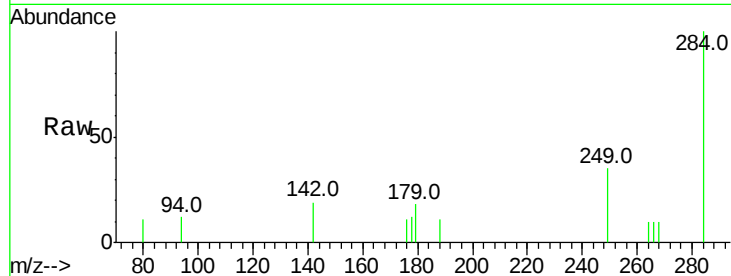
#19
Hexachlorobenzene
Concen: 0.43 ng
RT: 16.47 min Scan# 1080
Delta R.T. -0.00 min
Lab File: BE092843.D
Acq: 28 Mar 2017 19:06

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4EC

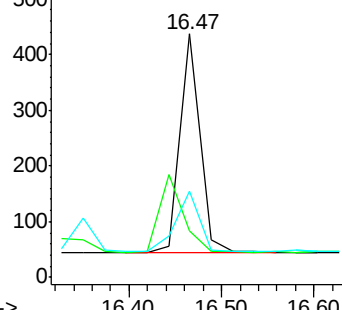
Tot Ion	Ratio	Lower	Upper
284	100		
142	0.0	29.1	43.7#
249	31.9	27.9	41.9

Manual Integrations
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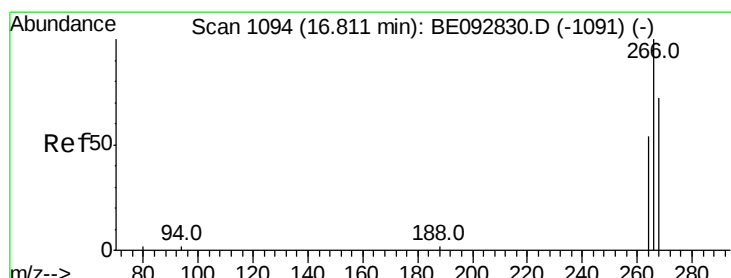
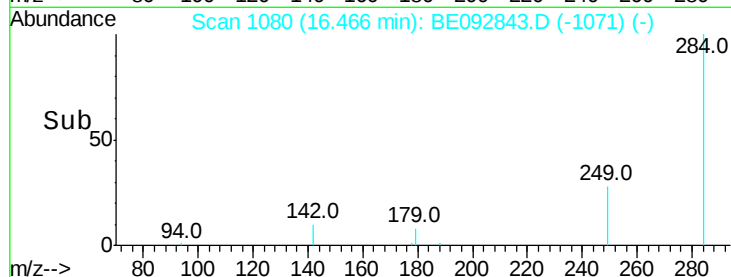
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Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E



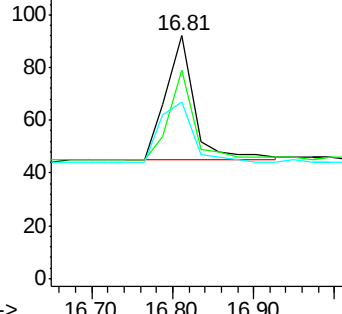
Time-->



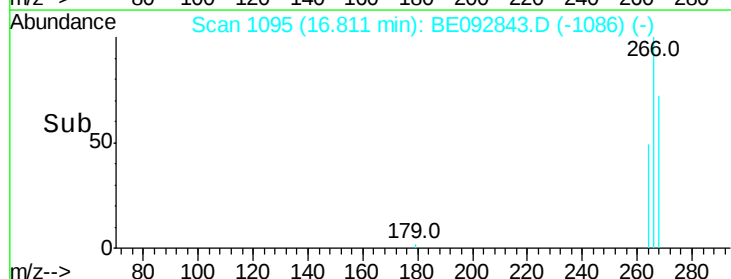
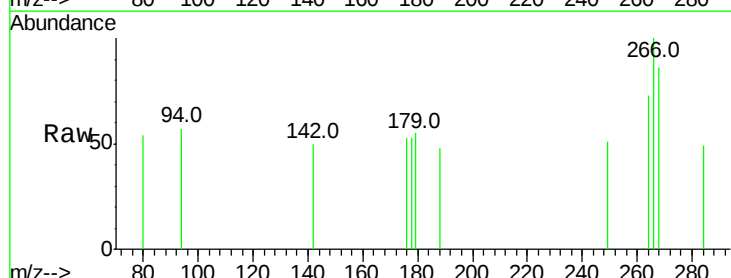
#20
Pentachlorophenol
Concen: 0.48 ng
RT: 16.81 min Scan# 1095
Delta R.T. 0.00 min
Lab File: BE092843.D
Acq: 28 Mar 2017 19:06

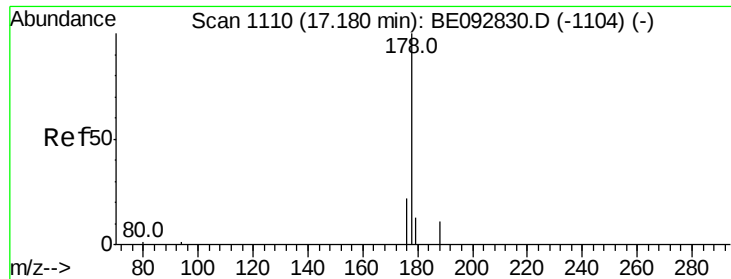
Tgt Ion	Ratio	Lower	Upper
266	100		
268	85.9	62.5	93.7
264	72.8	57.2	85.8

Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E



Time-->





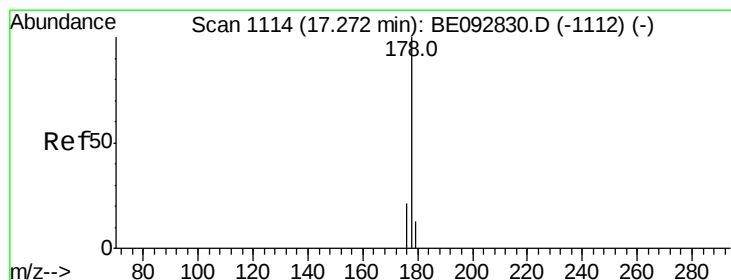
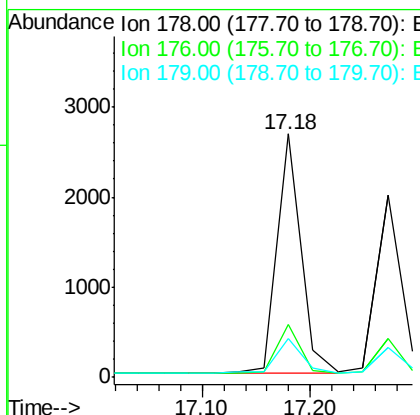
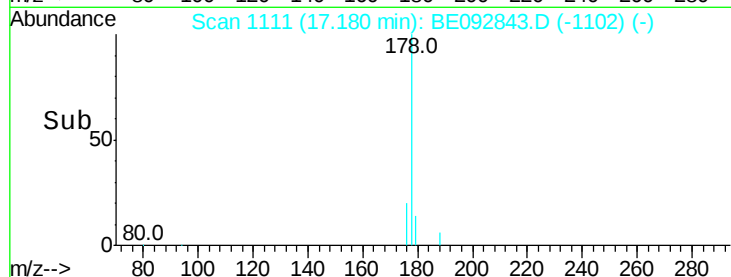
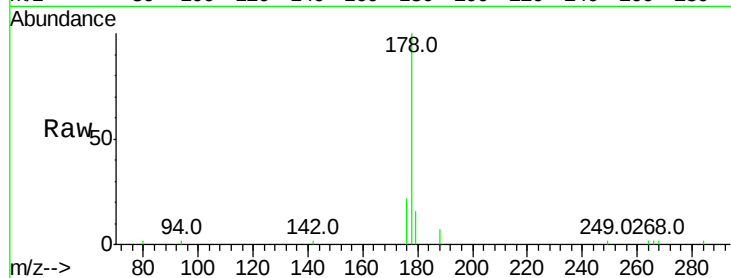
#21
Phenanthrene
Concen: 0.45 ng
RT: 17.18 min Scan# 1111
Delta R.T. -0.00 min
Lab File: BE092843.D
Acq: 28 Mar 2017 19:06

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4EC

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.8	23.8
179	15.6	16.0	24.0

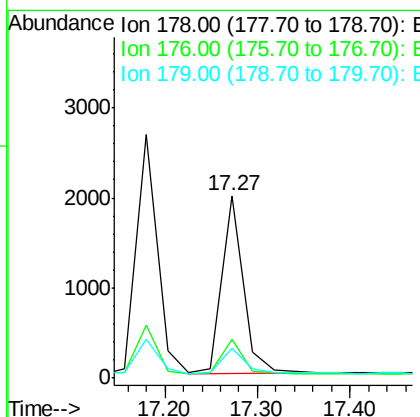
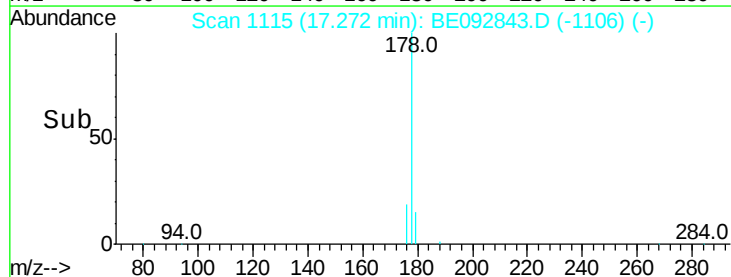
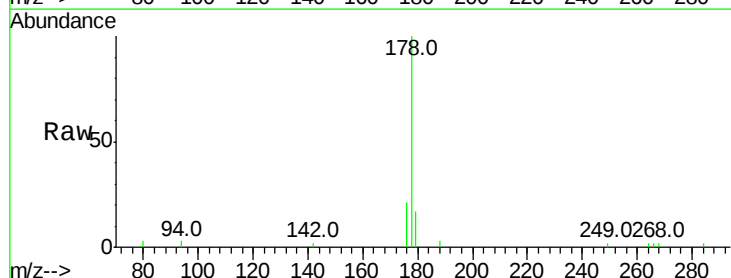
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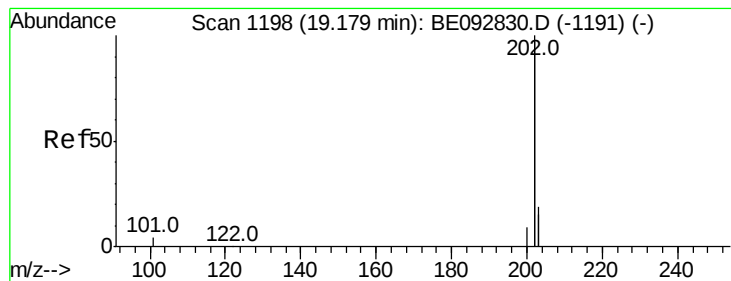
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#22
Anthracene
Concen: 0.39 ng
RT: 17.27 min Scan# 1115
Delta R.T. -0.00 min
Lab File: BE092843.D
Acq: 28 Mar 2017 19:06

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.4
179	15.0	12.2	18.2





#23

Fluoranthene

Concen: 0.37 ng

RT: 19.18 min Scan# 1199

Delta R.T. 0.00 min

Lab File: BE092843.D

Acq: 28 Mar 2017 19:06

Instrument :

BNA_E

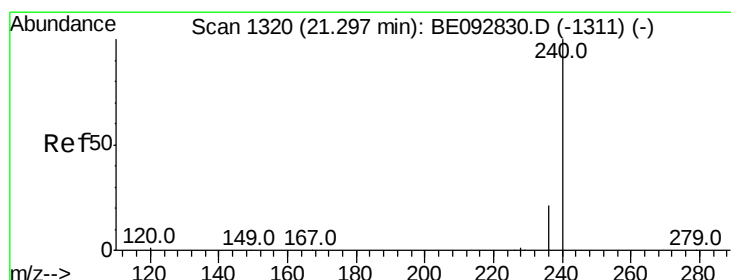
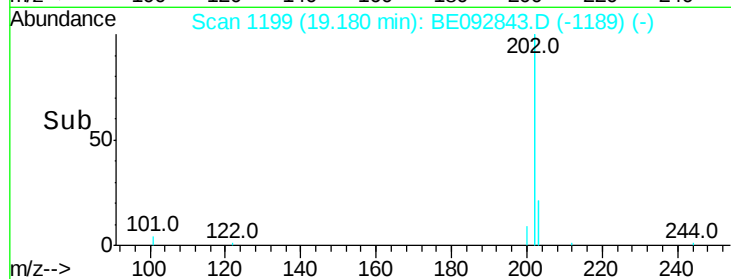
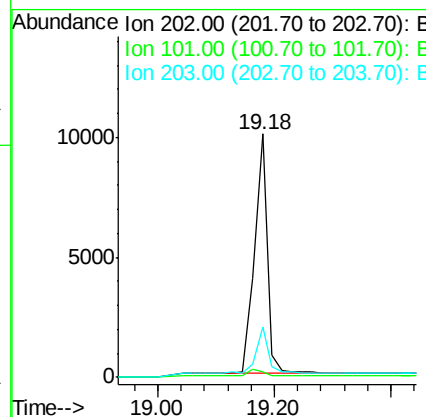
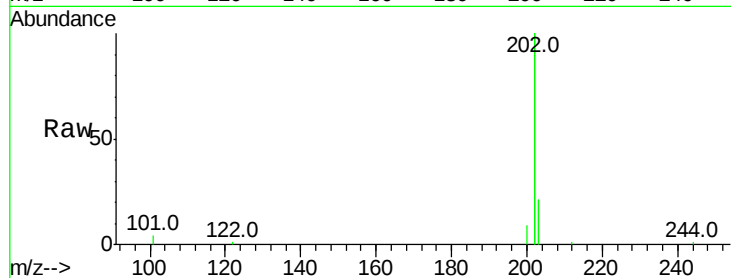
ClientSampleId :

SSTDCCC0.4EC

Tot Ion	Ratio	Lower	Upper
202	100		
101	3.1	2.2	3.4
203	17.5	13.7	20.5

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#24

Chrysene-d12

Concen: 5.00 ng

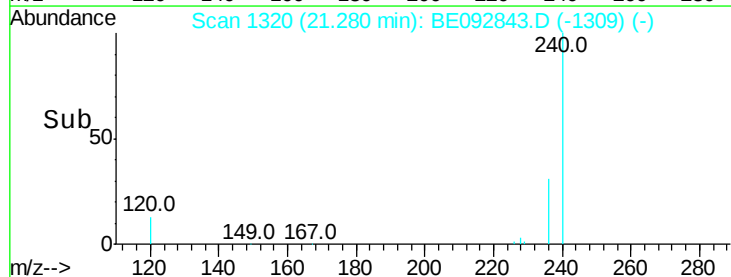
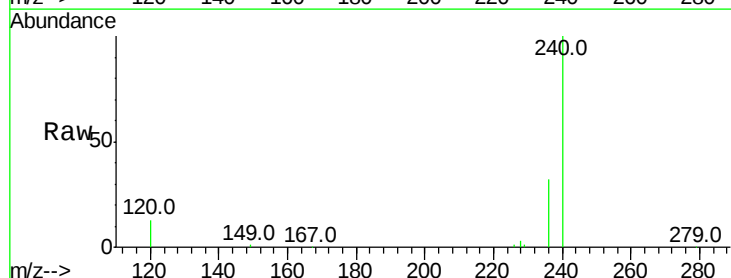
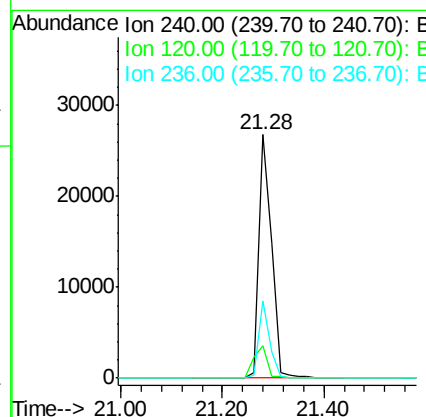
RT: 21.28 min Scan# 1320

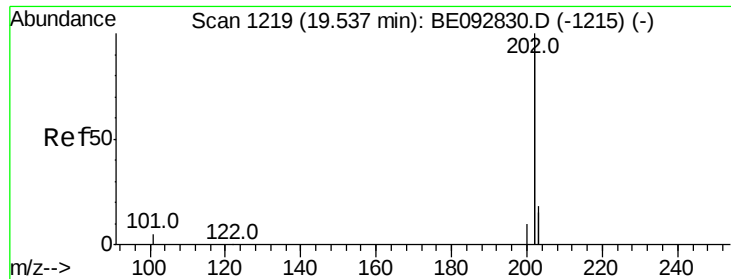
Delta R.T. -0.02 min

Lab File: BE092843.D

Acq: 28 Mar 2017 19:06

Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.1	2.6	4.0#
236	31.6	24.6	37.0





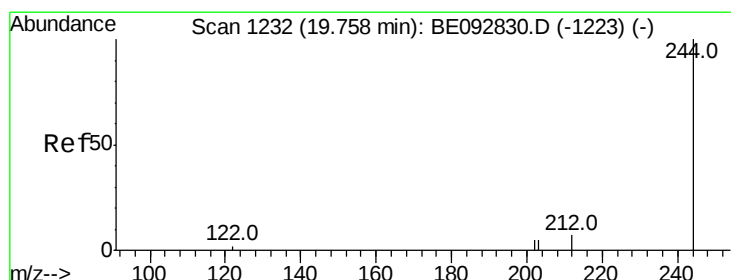
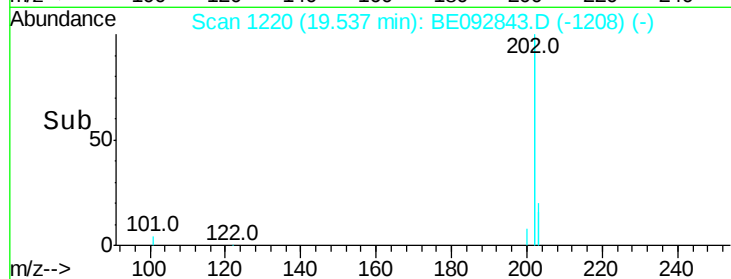
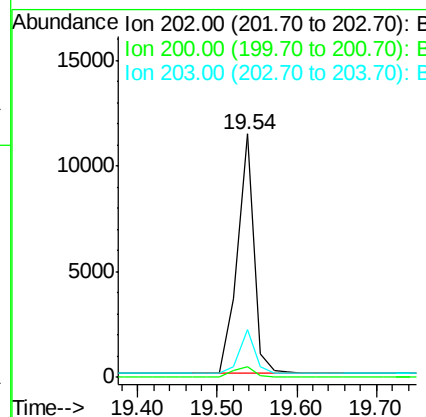
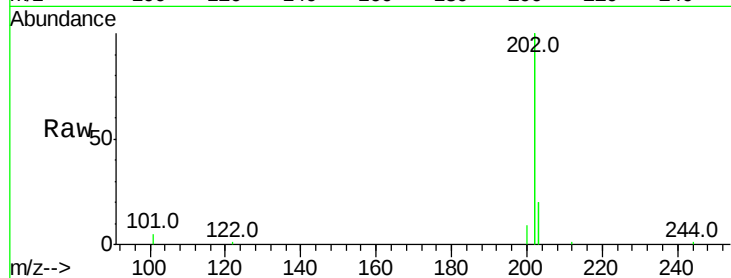
#25
Pvrene
Concen: 0.37 ng
RT: 19.54 min Scan# 1220
Delta R.T. 0.00 min
Lab File: BE092843.D
Acq: 28 Mar 2017 19:06

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4EC

Tot Ion	Ratio	Lower	Upper
202	100		
200	4.9	4.2	6.4
203	17.7	13.9	20.9

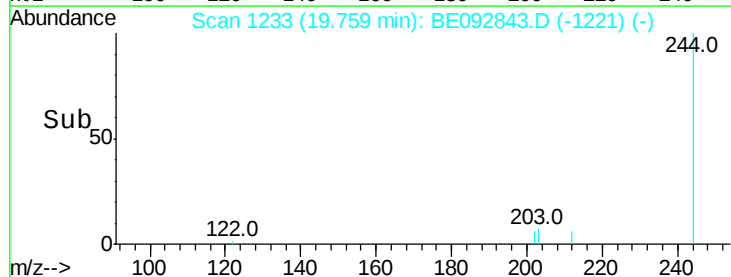
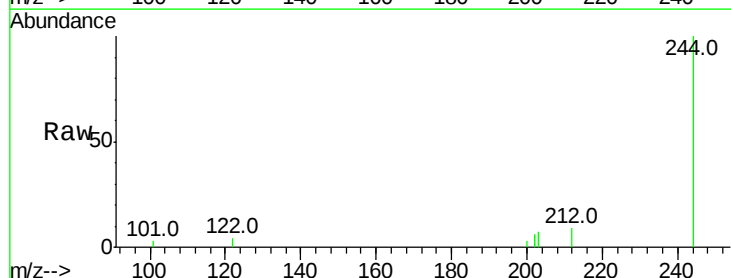
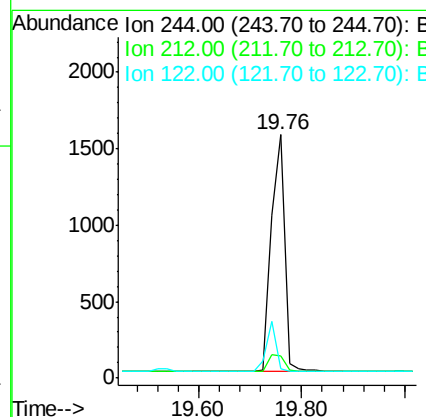
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#26
Terphenyl-d14
Concen: 0.35 ng
RT: 19.76 min Scan# 1233
Delta R.T. 0.00 min
Lab File: BE092843.D
Acq: 28 Mar 2017 19:06

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.0	6.7	10.1
122	4.0	3.6	5.4





#27

Benzo(a)anthracene

Concen: 0.37 ng

RT: 21.26 min Scan# 1319

Delta R.T. 0.00 min

Lab File: BE092843.D

Acq: 28 Mar 2017 19:06

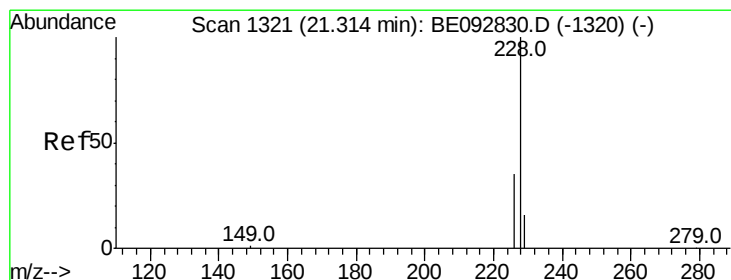
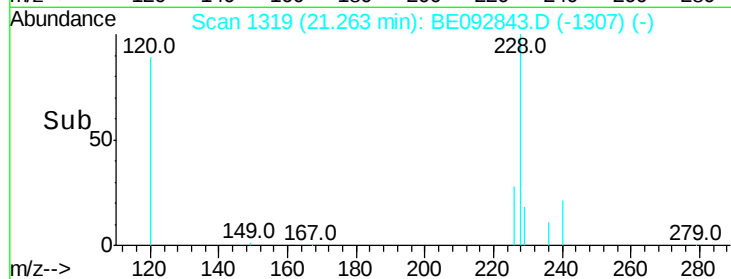
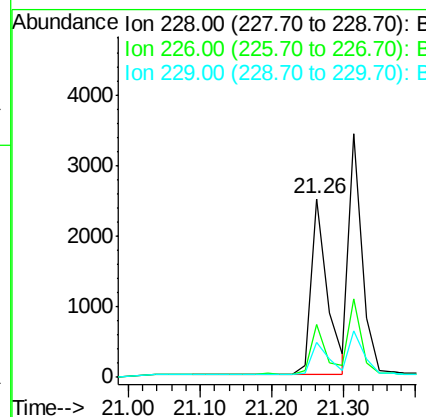
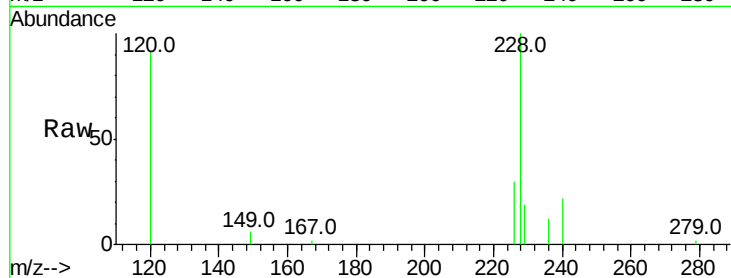
Instrument :
BNA_E

ClientSampleId :
SSTDCCC0.4EC

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.6	35.4
229	19.3	13.3	19.9

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#28

Chrysene

Concen: 0.40 ng

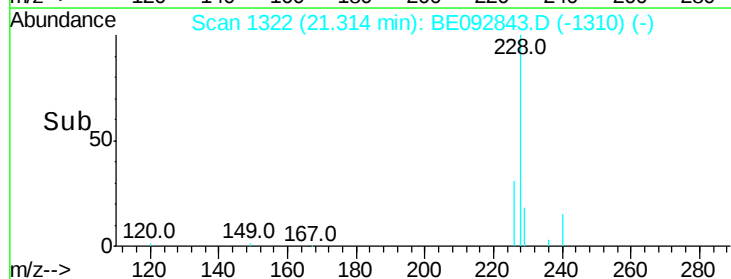
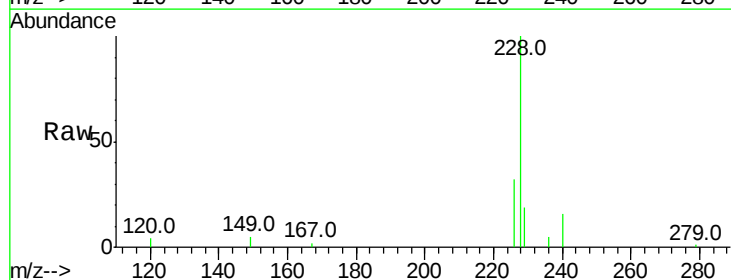
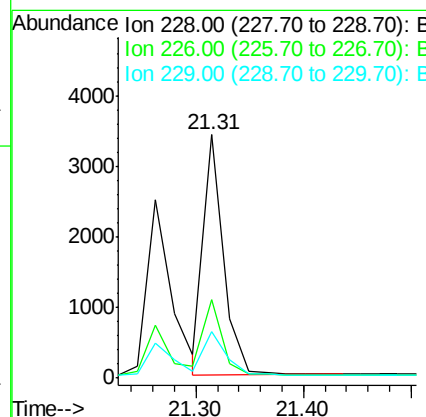
RT: 21.31 min Scan# 1322

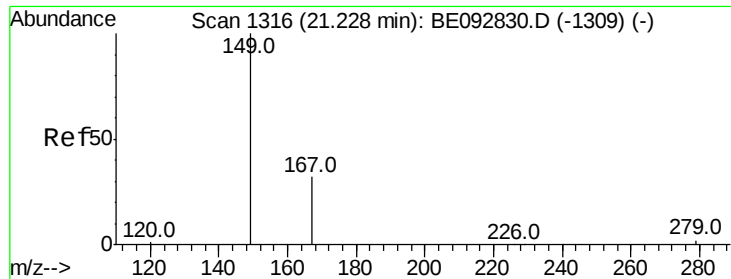
Delta R.T. 0.00 min

Lab File: BE092843.D

Acq: 28 Mar 2017 19:06

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.1	36.3	54.5#
229	18.9	10.6	16.0#





#29

Bis(2-ethylhexyl)phthalate

Concen: 0.34 ng

RT: 21.21 min Scan# 1316

Delta R.T. -0.02 min

Lab File: BE092843.D

Acq: 28 Mar 2017 19:06

Instrument :

BNA_E

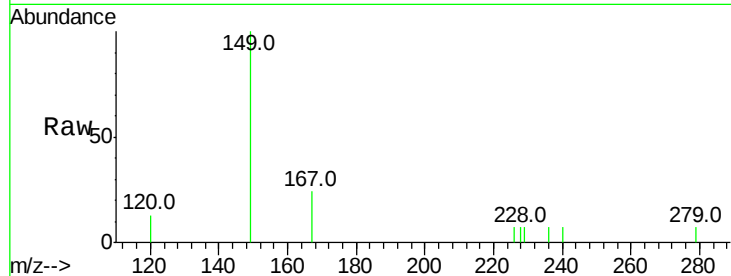
ClientSampleId :

SSTDCCC0.4EC

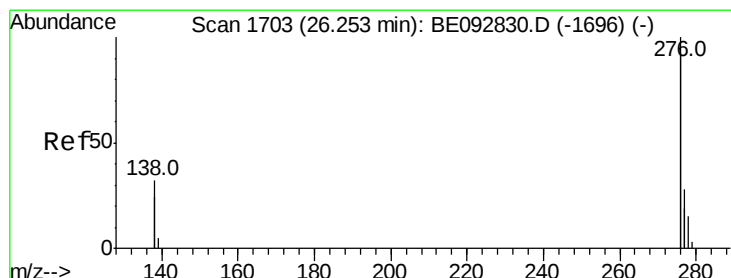
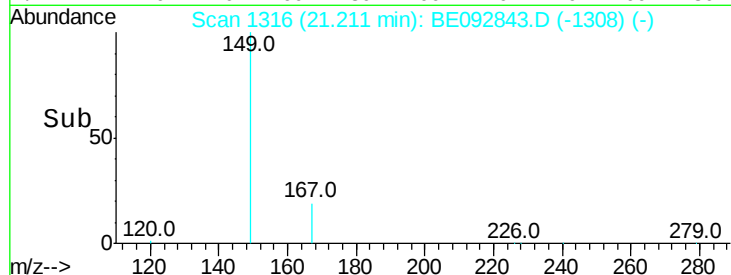
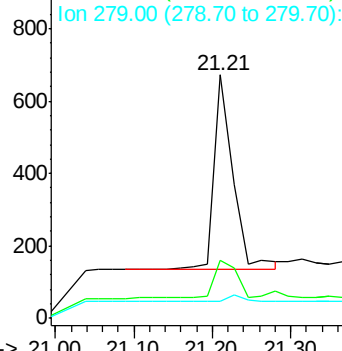
Tot Ion:	149	Resp:	882
Ion Ratio	Lower	Upper	
149	100		
167	24.3	16.0	24.0#
279	3.1	16.0	24.0#

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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: 0.34 ng

RT: 26.24 min Scan# 1703

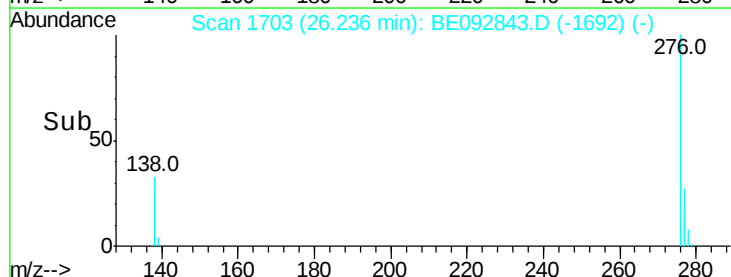
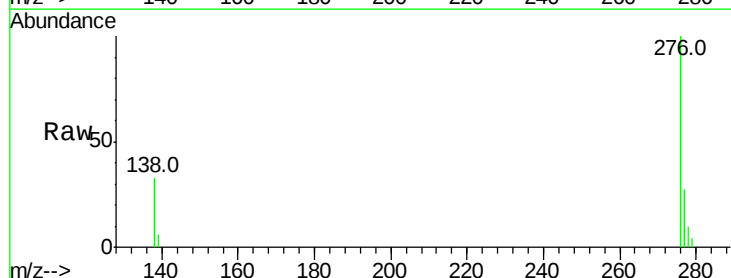
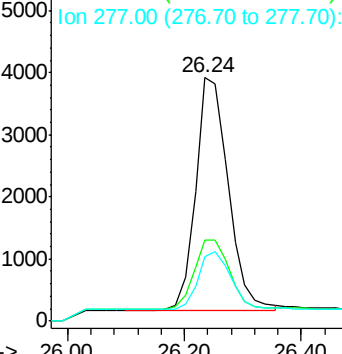
Delta R.T. -0.02 min

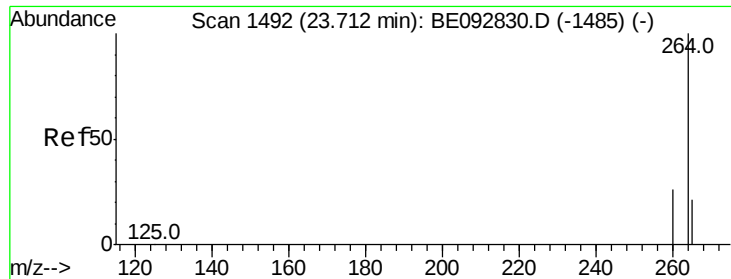
Lab File: BE092843.D

Acq: 28 Mar 2017 19:06

Tgt Ion:	276	Resp:	14480
Ion Ratio	Lower	Upper	
276	100		
138	32.5	20.3	30.5#
277	25.4	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





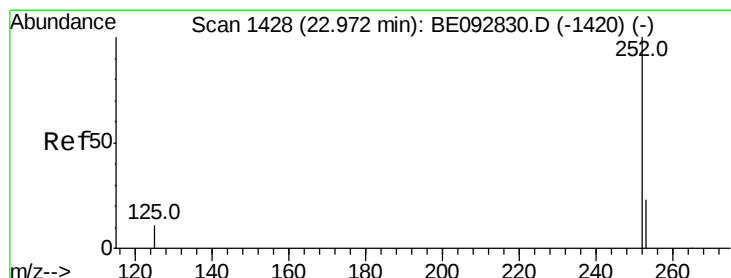
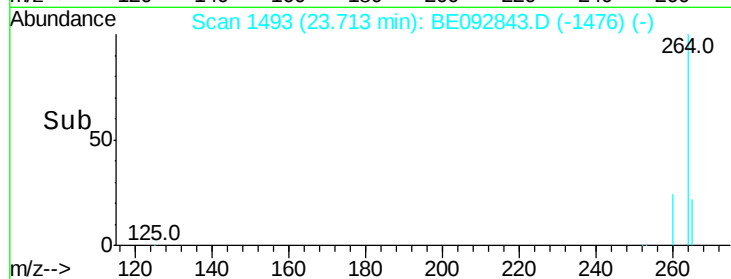
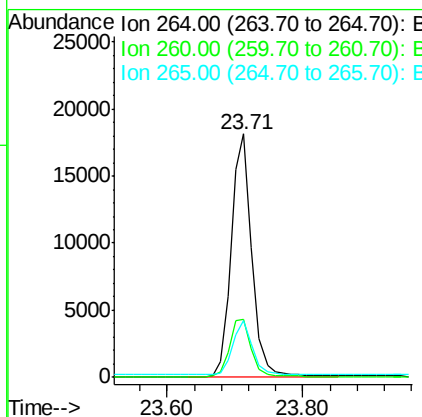
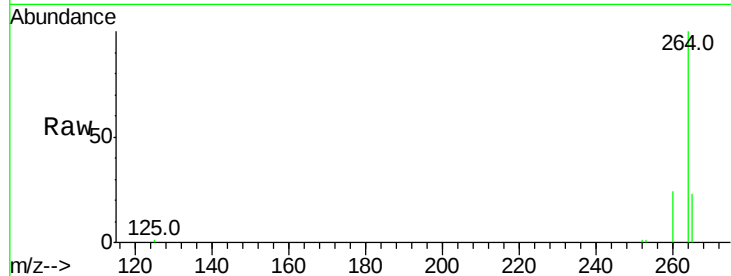
#31
Pervlene-d12
Concen: 5.00 ng
RT: 23.71 min Scan# 1493
Delta R.T. 0.00 min
Lab File: BE092843.D
Acq: 28 Mar 2017 19:06

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4EC

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	20.1	30.1
265	23.2	17.9	26.9

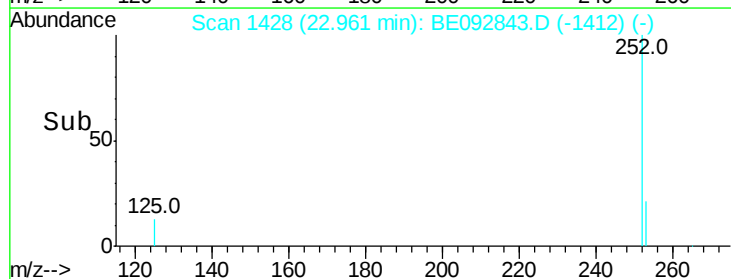
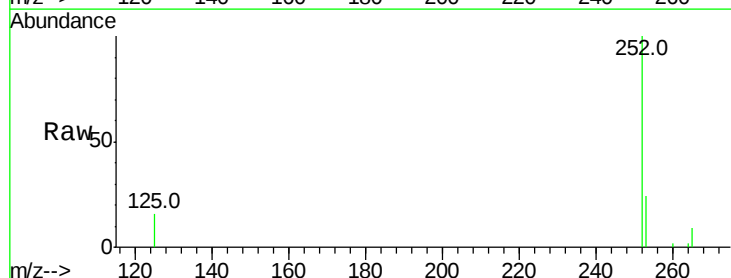
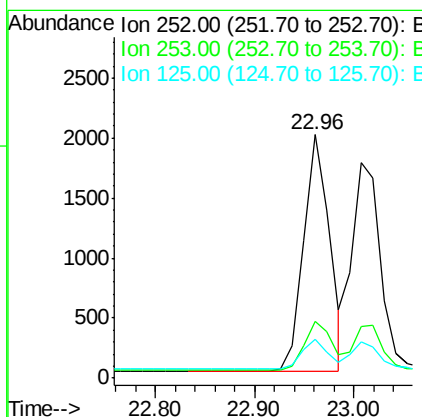
Manual Integrations
APPROVED

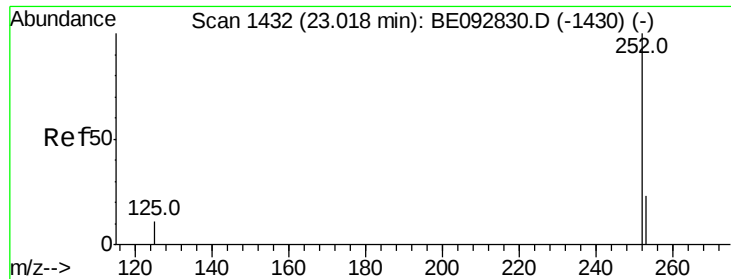
mohammad
3/29/2017 2:37:31 PM



#32
Benzo(b)fluoranthene
Concen: 0.35 ng
RT: 22.96 min Scan# 1428
Delta R.T. -0.01 min
Lab File: BE092843.D
Acq: 28 Mar 2017 19:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.7	28.1
125	16.0	10.5	15.7#





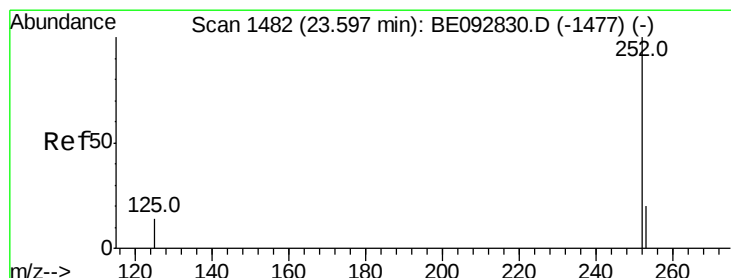
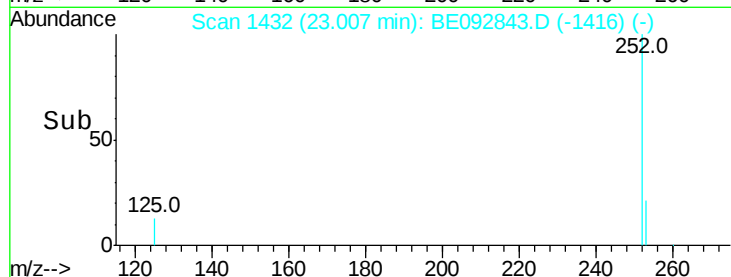
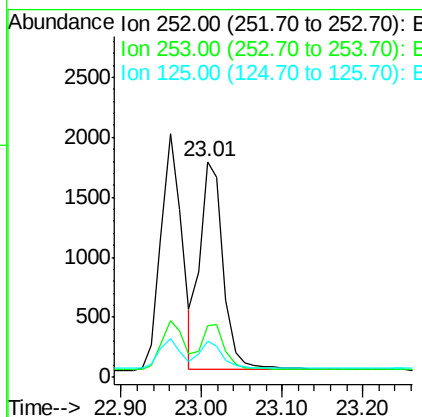
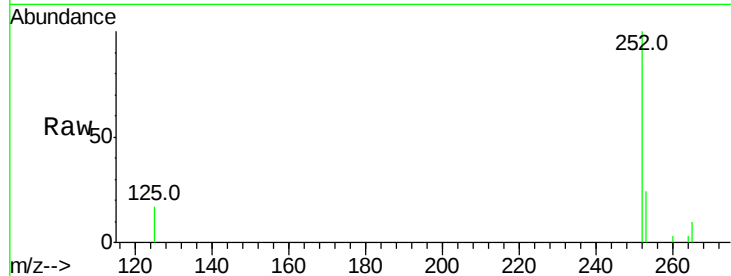
#33
Benzo(k)fluoranthene
Concen: 0.38 ng
RT: 23.01 min Scan# 1432
Delta R.T. -0.01 min
Lab File: BE092843.D
Acq: 28 Mar 2017 19:06

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4EC

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	20.3	30.5
125	17.0	9.6	14.4

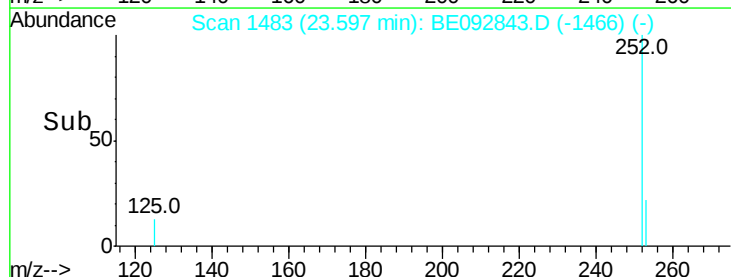
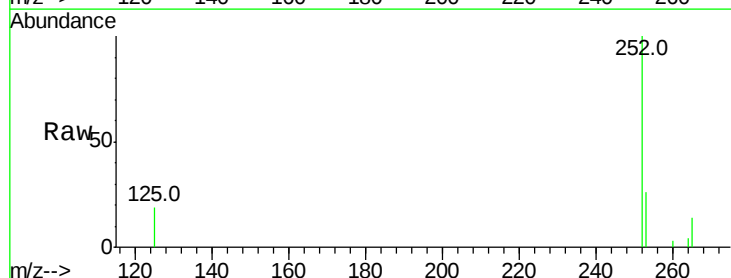
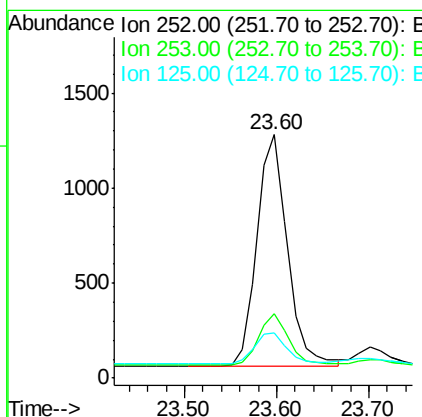
Manual Integrations
APPROVED

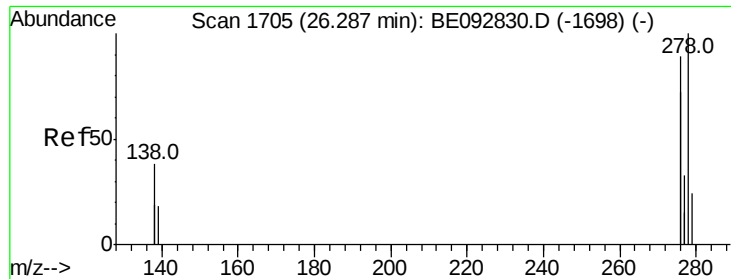
mohammad
3/29/2017 2:37:31 PM



#34
Benzo(a)pyrene
Concen: 0.33 ng
RT: 23.60 min Scan# 1483
Delta R.T. 0.00 min
Lab File: BE092843.D
Acq: 28 Mar 2017 19:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.3	19.0	28.6
125	18.7	11.8	17.8





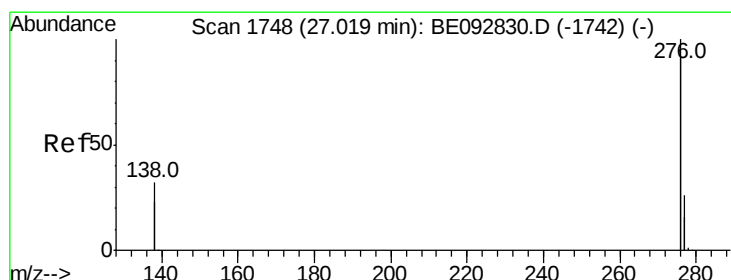
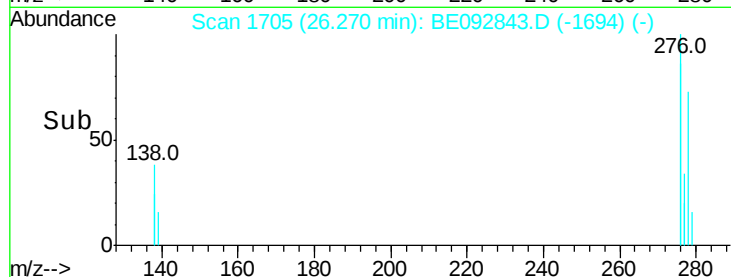
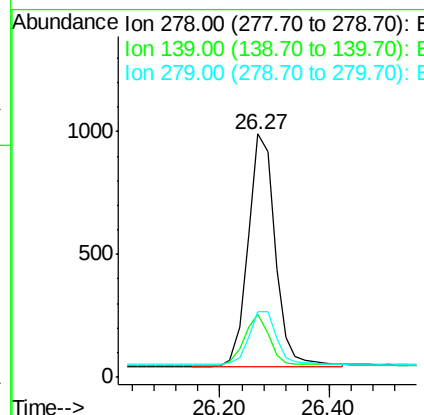
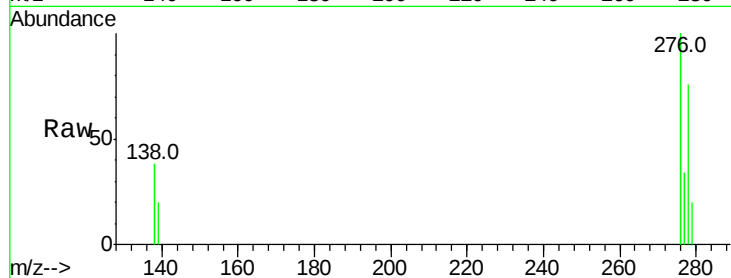
#35
Dibenzo(a,h)anthracene
Concen: 0.36 ng
RT: 26.27 min Scan# 1705
Delta R.T. -0.02 min
Lab File: BE092843.D
Acq: 28 Mar 2017 19:06

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4EC

Tot Ion	Ratio	Lower	Upper
278	100		
139	25.7	13.8	20.8#
279	26.7	21.4	32.2

Manual Integrations
APPROVED

mohammad
3/29/2017 2:37:31 PM



#36
Benzo(g,h,i)perylene
Concen: 0.37 ng
RT: 27.02 min Scan# 1749
Delta R.T. 0.00 min
Lab File: BE092843.D
Acq: 28 Mar 2017 19:06

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.8	19.8	29.8
138	30.6	19.8	29.6#

