

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE011320\
 Data File : BE101043.D
 Acq On : 13 Jan 2020 18:12
 Operator : JU
 Sample : L1103-06
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SB-18(3-5)

Manual Integrations
 APPROVED

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 1/14/2020 12:24:02 PM

Quant Time: Jan 14 09:55:53 2020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE010820.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jan 08 18:36:25 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.73	152	2984	0.40	ng	0.00
7) Naphthalene-d8	10.51	136	12809	0.40	ng	0.01
13) Acenaphthene-d10	14.36	164	8971	0.40	ng	0.00
19) Phenanthrene-d10	17.09	188	19933	0.40	ng	0.00
27) Chrysene-d12	21.27	240	19067	0.40	ng	-0.01
34) Perylene-d12	23.69	264	21432	0.40	ng	-0.01

System Monitoring Compounds

4) 2-Fluorophenol	5.34	112	1766	0.26	ng	0.00
5) Phenol-d6	6.91	99	2096	0.25	ng	0.00
8) Nitrobenzene-d5	8.89	82	1979	0.22	ng	0.01
11) 2-Methylnaphthalene-d10	12.11	152	6856	0.28	ng	0.00
14) 2,4,6-Tribromophenol	15.85	330	507	0.20	ng	0.00
15) 2-Fluorobiphenyl	13.00	172	10974	0.32	ng	0.00
25) Fluoranthene-d10	19.12	212	77334	0.28	ng	-0.01
29) Terphenyl-d14	19.73	244	18537	0.40	ng	0.00

Target Compounds

						Qvalue
6) bis(2-Chloroethyl)ether	7.15	93	27	0.003	ng	# 1
9) Naphthalene	10.56	128	1858	0.013	ng	# 81
10) Hexachlorobutadiene	10.87	225	19	0.003	ng	# 28
12) 2-Methylnaphthalene	12.18	142	100	0.005	ng	# 49
16) Acenaphthylene	14.08	152	443	0.012	ng	# 81
17) Acenaphthene	14.41	154	54	0.002	ng	# 72
18) Fluorene	15.41	166	147	0.004	ng	# 76
20) 4-Bromophenyl-phenylether	16.25	248	11	0.001	ng	# 69
21) Hexachlorobenzene	16.38	284	31	0.003	ng	# 49
23) Phenanthrene	17.13	178	2311	0.042	ng	96
24) Anthracene	17.24	178	957	0.019	ng	95
26) Fluoranthene	19.15	202	9404	0.138	ng	99
28) Pyrene	19.51	202	8768	0.124	ng	98
30) Benzo(a)anthracene	21.26	228	5382m	0.099	ng	
31) Chrysene	21.31	228	6458	0.080	ng	95
32) Bis(2-ethylhexyl)phthalate	21.20	149	8245	0.091	ng	# 99
33) Indeno(1,2,3-cd)pyrene	26.23	276	2843	0.044	ng	97
35) Benzo(b)fluoranthene	22.96	252	6273	0.104	ng	# 89
36) Benzo(k)fluoranthene	22.99	252	4137m	0.047	ng	
37) Benzo(a)pyrene	23.58	252	3634	0.062	ng	# 81
38) Dibenzo(a,h)anthracene	26.24	278	690	0.013	ng	# 3
39) Benzo(g,h,i)perylene	27.00	276	3264	0.050	ng	# 85

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

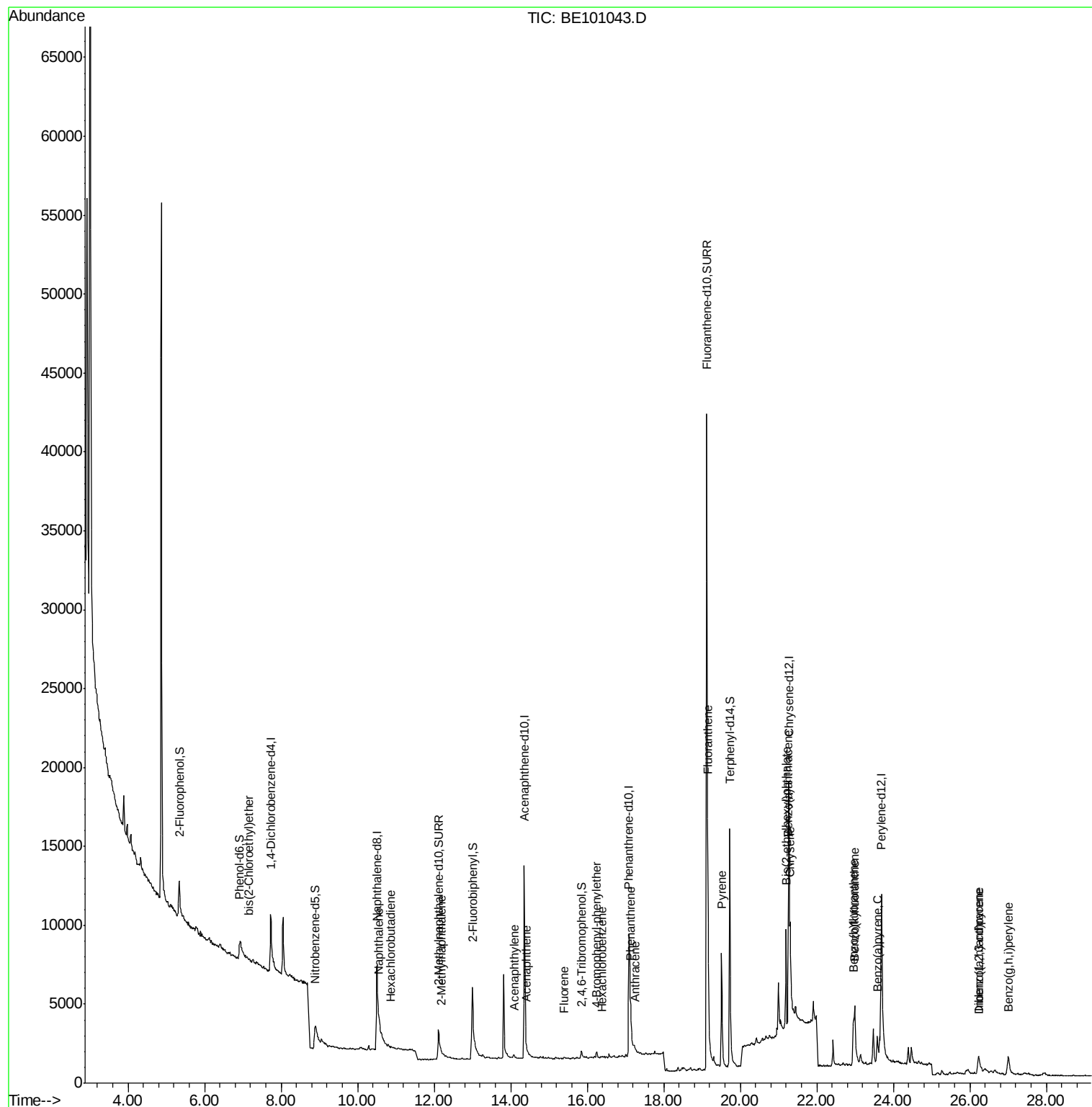
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE011320\
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SB-18(3-5)

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Quant Time: Jan 14 09:55:53 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE010820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

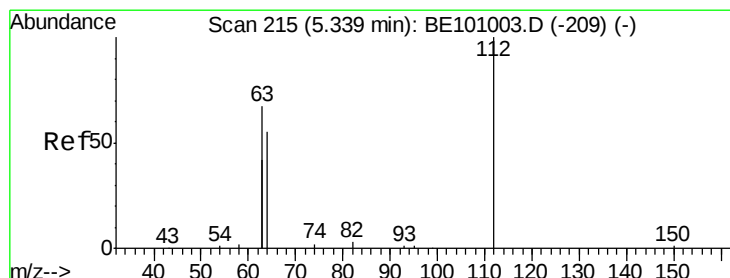
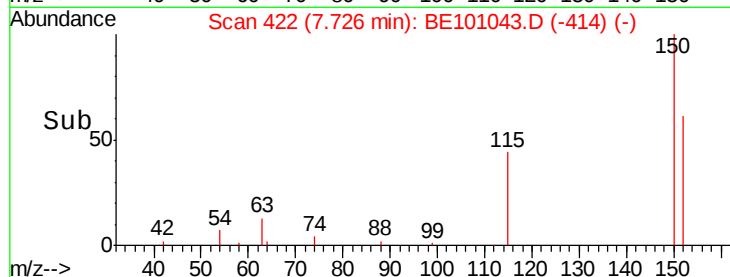
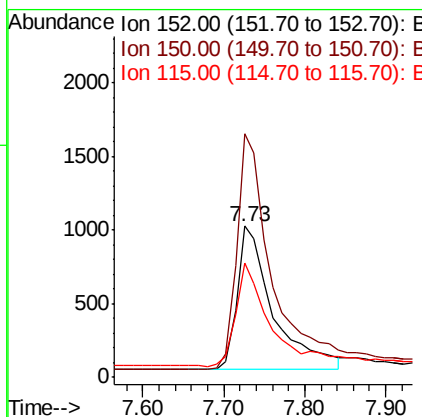
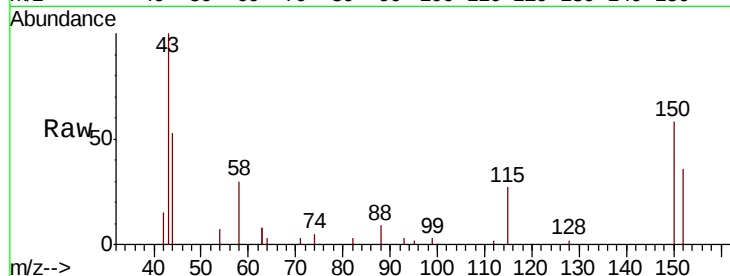
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.73 min Scan# 422
Delta R.T. -0.01 min
Lab File: BE101043.D
Acq: 13 Jan 2020 18:12

Instrument :
BNA_E
ClientSampleId :
SB-18(3-5)

Tot Ion	Ratio	Lower	Upper
152	100		
150	161.3	120.3	180.5
115	75.4	51.7	77.5

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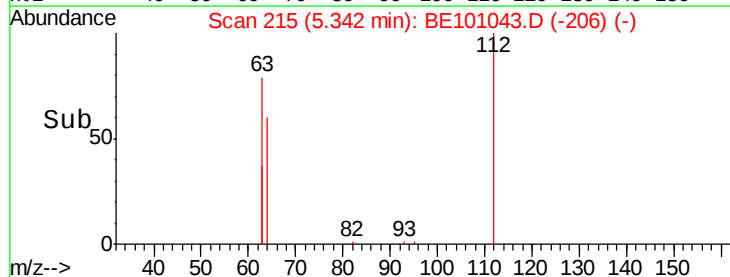
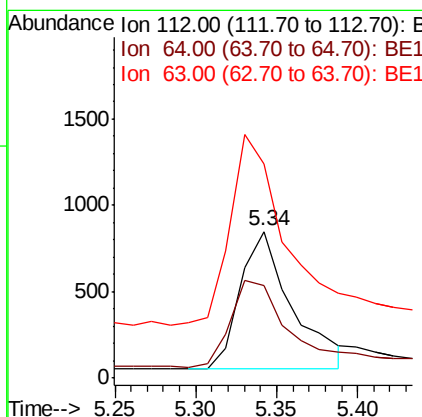
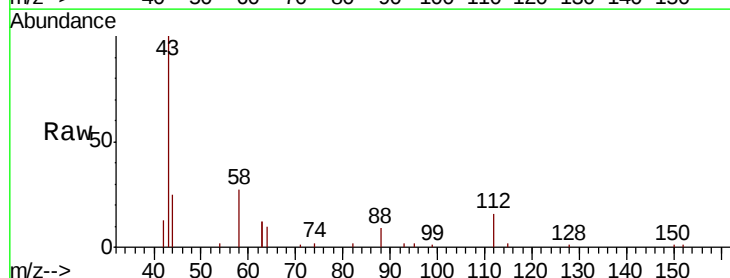
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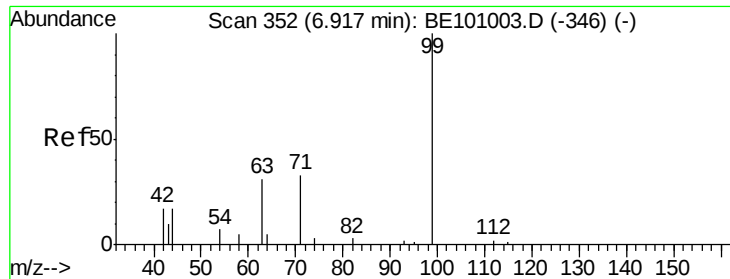


#4

2-Fluorophenol
Concen: 0.263 ng
RT: 5.34 min Scan# 215
Delta R.T. 0.00 min
Lab File: BE101043.D
Acq: 13 Jan 2020 18:12

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.6	53.6	80.4
63	149.7	114.6	172.0





#5

Phenol-d6

Concen: 0.247 ng

RT: 6.91 min Scan# 351

Delta R.T. -0.01 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

Instrument :

BNA_E

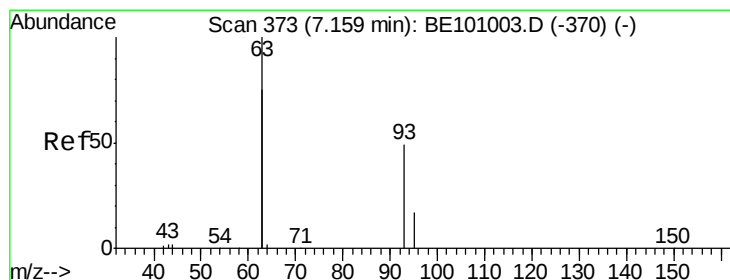
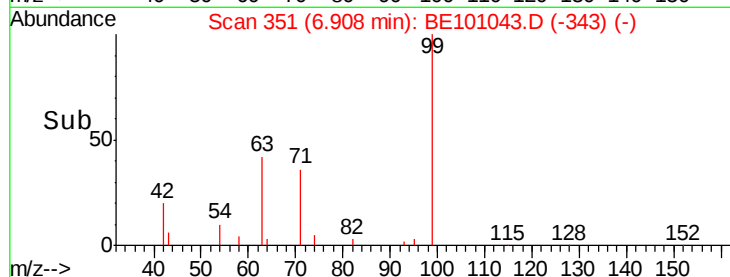
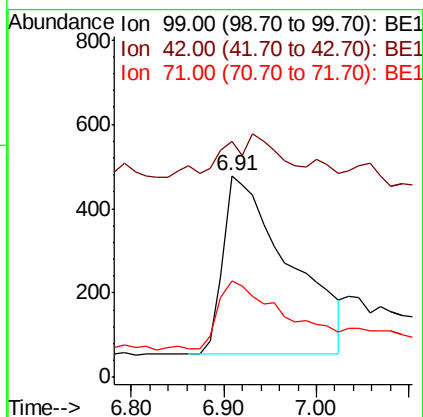
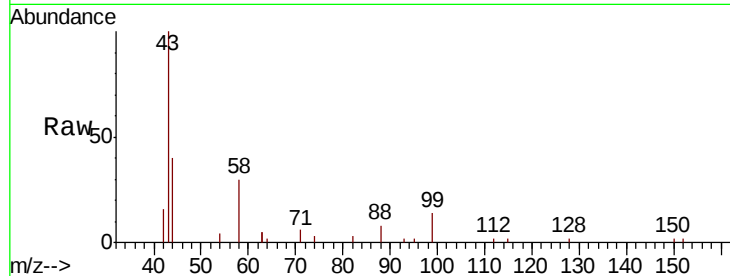
ClientSampleId :

SB-18(3-5)

Tot Ion:	99	Resp:	2096
Ion Ratio	Lower	Upper	
99	100		
42	0.0	18.3	27.5#
71	40.0	28.0	42.0

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#6

bis(2-Chloroethyl)ether

Concen: 0.003 ng

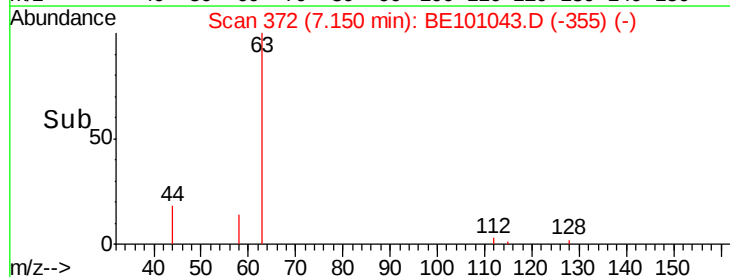
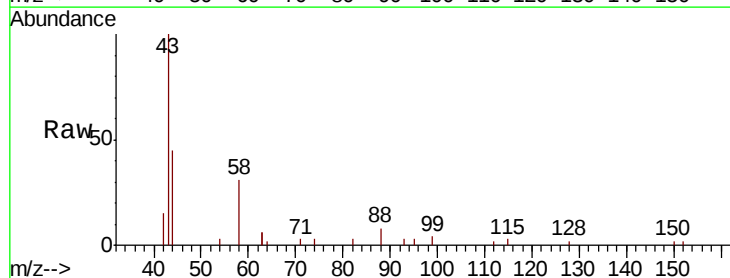
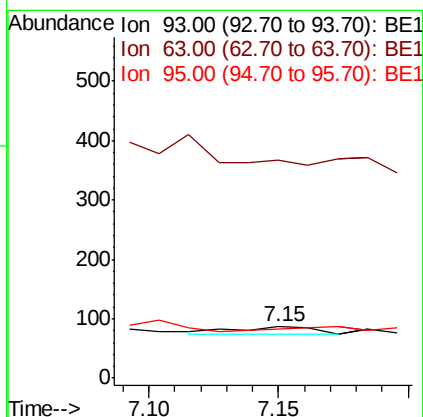
RT: 7.15 min Scan# 372

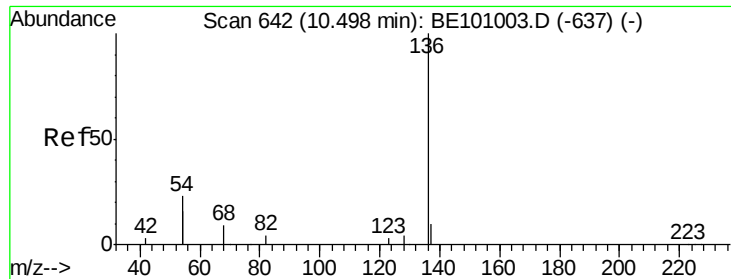
Delta R.T. -0.01 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

Tgt Ion:	93	Resp:	27
Ion Ratio	Lower	Upper	
93	100		
63	0.0	233.9	350.9#
95	0.0	23.5	35.3#





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.51 min Scan# 642

Delta R.T. 0.01 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

Instrument :

BNA_E

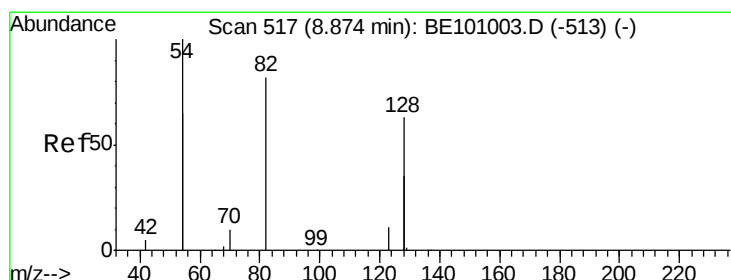
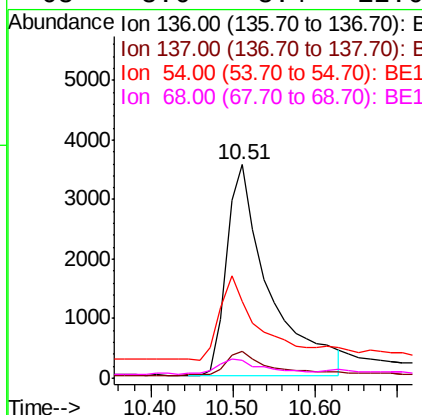
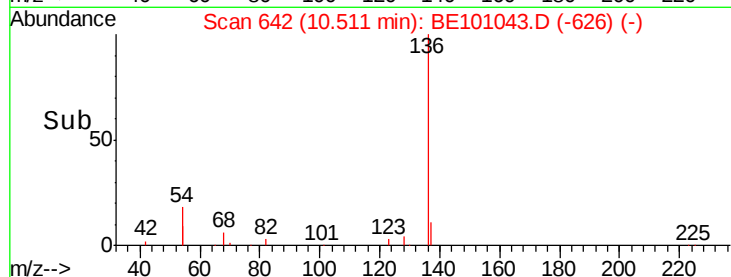
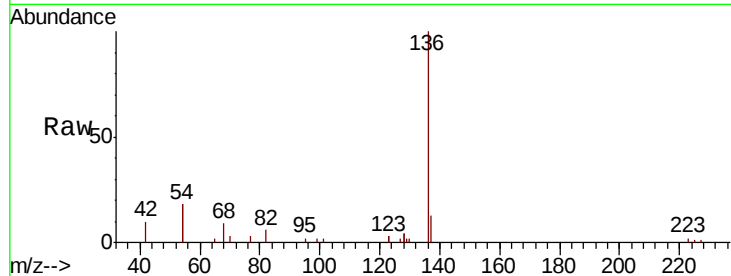
ClientSampleId :

SB-18(3-5)

Tot Ion	Ratio	Lower	Upper
136	100		
137	12.6	9.3	13.9
54	35.7	36.8	55.2#
68	8.6	8.4	12.6

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#8

Nitrobenzene-d5

Concen: 0.216 ng

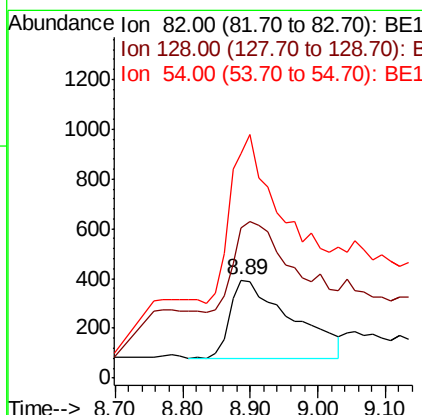
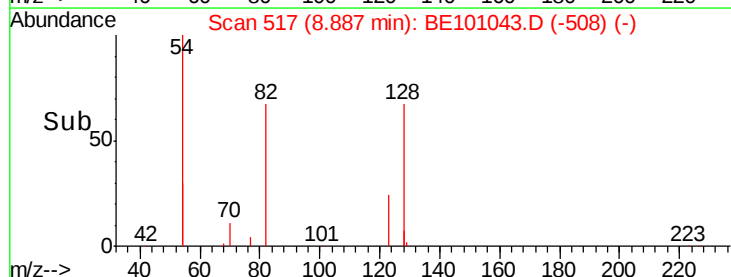
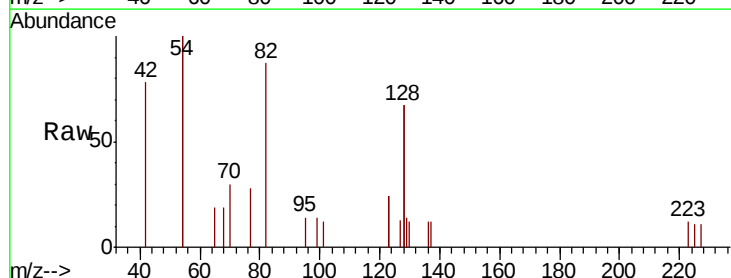
RT: 8.89 min Scan# 517

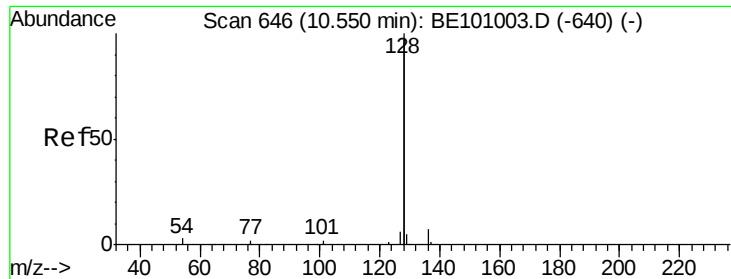
Delta R.T. 0.01 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

Tgt Ion	Ratio	Lower	Upper
82	100		
128	153.3	109.8	164.6
54	228.9	174.5	261.7





#9

Naphthalene

Concen: 0.013 ng

RT: 10.56 min Scan# 646

Delta R.T. 0.01 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

Instrument :

BNA_E

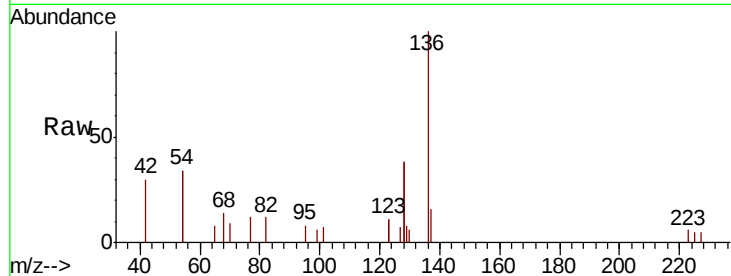
ClientSampled :

SB-18(3-5)

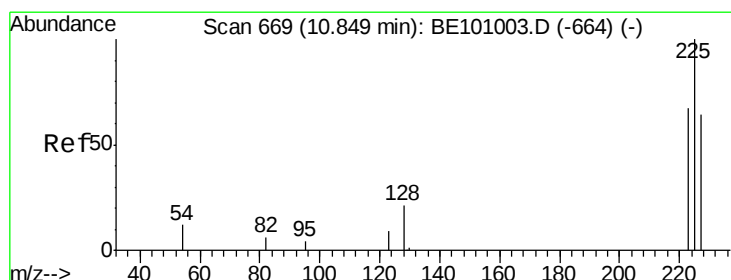
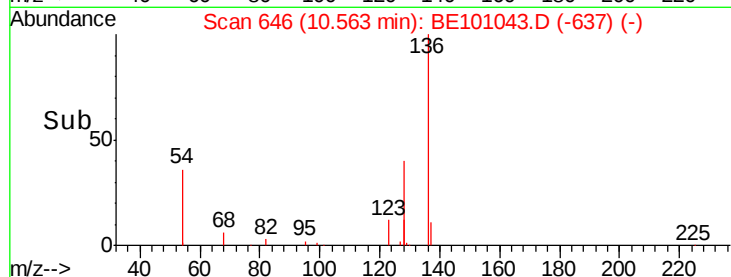
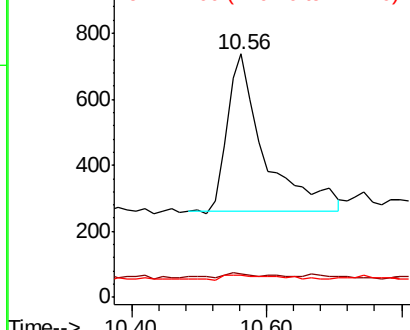
Tot Ion:	128	Resp:	1858
Ion Ratio	Lower	Upper	
128	100		
129	9.9	2.3	3.5#
127	9.2	2.7	4.1#

Manual Integrations
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Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 0.003 ng

RT: 10.87 min Scan# 670

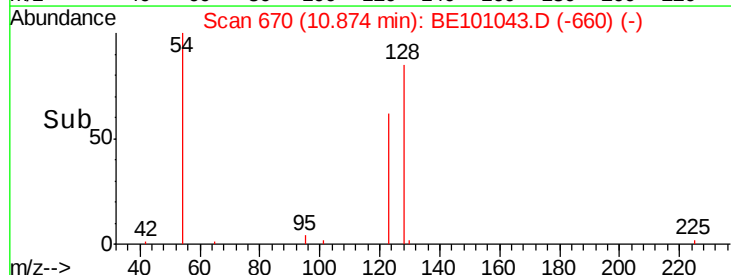
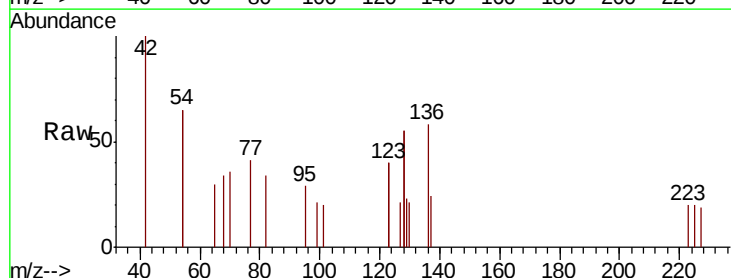
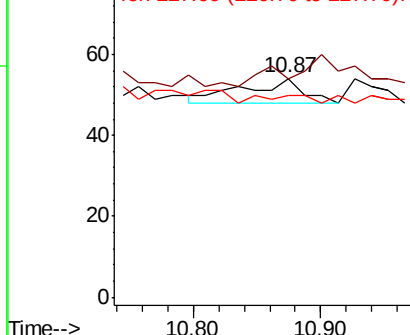
Delta R.T. 0.03 min

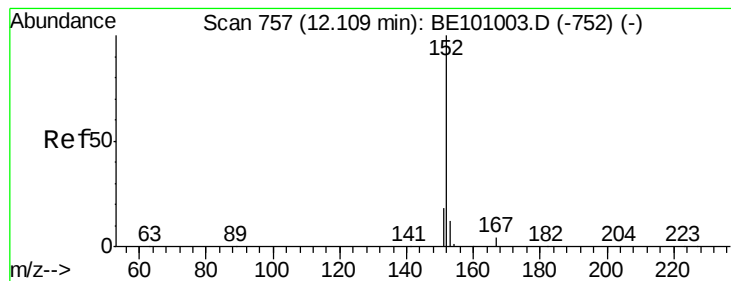
Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

Tgt Ion:	225	Resp:	19
Ion Ratio	Lower	Upper	
225	100		
223	0.0	52.2	78.4#
227	15.8	49.9	74.9#

Abundance Ion 225.00 (224.70 to 225.70): E
Ion 223.00 (222.70 to 223.70): E
Ion 227.00 (226.70 to 227.70): E





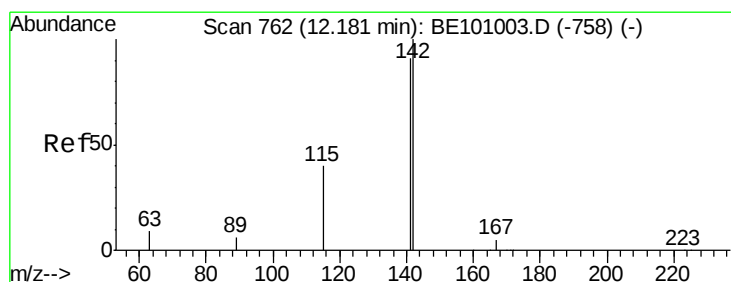
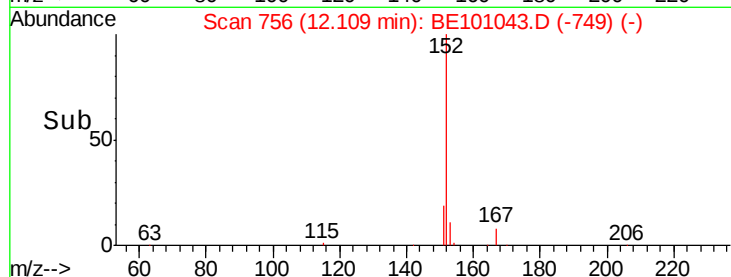
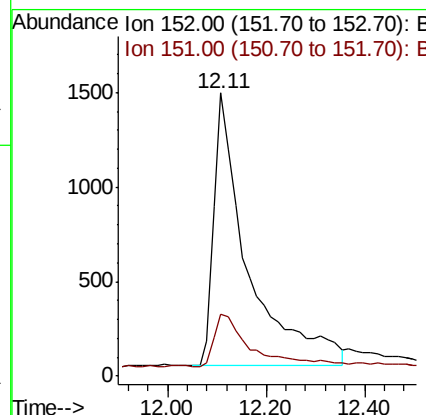
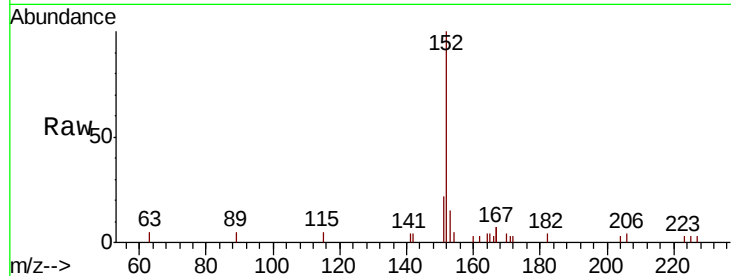
#11
 2-Methylnaphthalene-d10
 Concen: 0.280 ng
 RT: 12.11 min Scan# 756
 Delta R.T. 0.00 min
 Lab File: BE101043.D
 Acq: 13 Jan 2020 18:12

Instrument :
 BNA_E
 ClientSampleId :
 SB-18(3-5)

Tot Ion	Ratio	Lower	Upper
152	100		
151	21.5	15.0	22.6

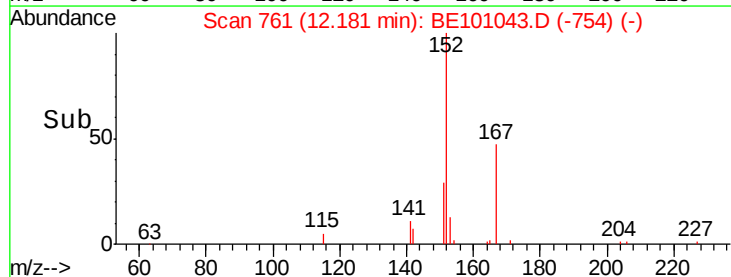
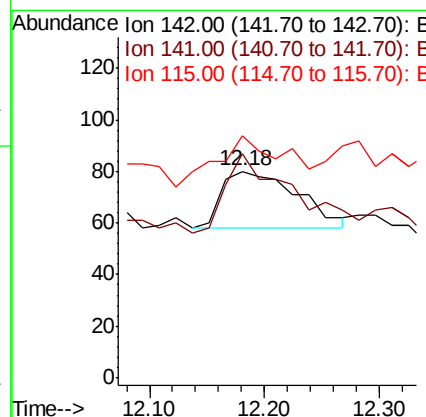
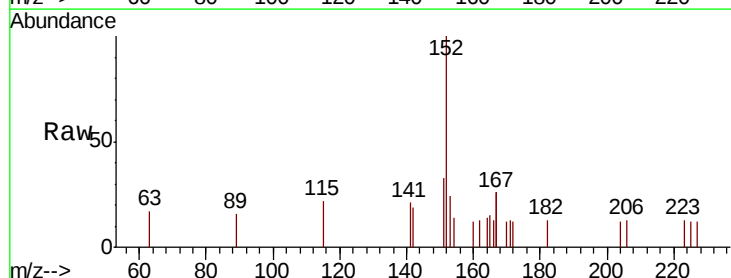
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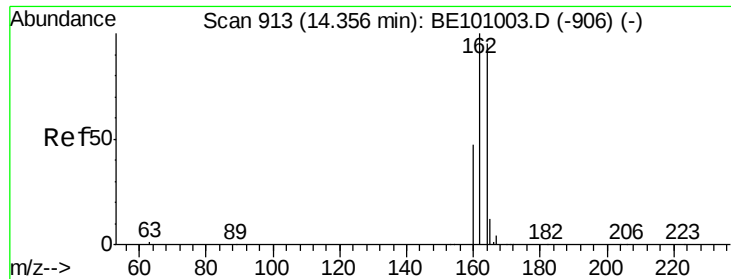
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#12
 2-Methylnaphthalene
 Concen: 0.005 ng
 RT: 12.18 min Scan# 761
 Delta R.T. 0.00 min
 Lab File: BE101043.D
 Acq: 13 Jan 2020 18:12

Tgt Ion	Ratio	Lower	Upper
142	100		
141	108.7	72.5	108.7#
115	117.5	33.0	49.6#





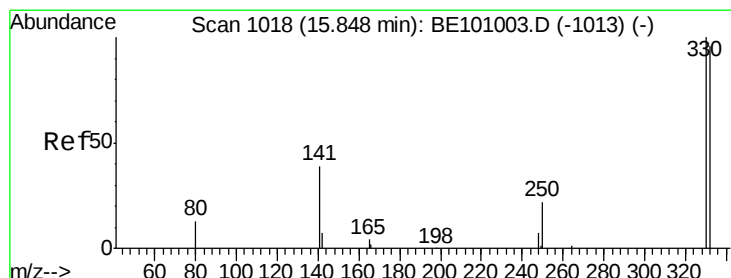
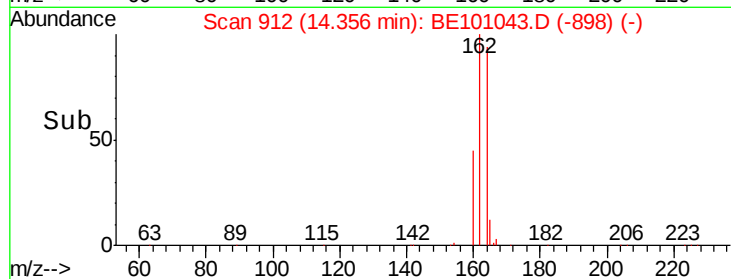
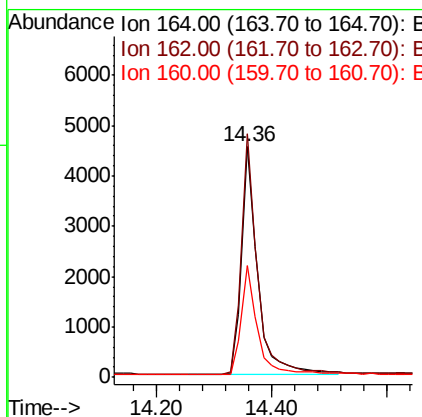
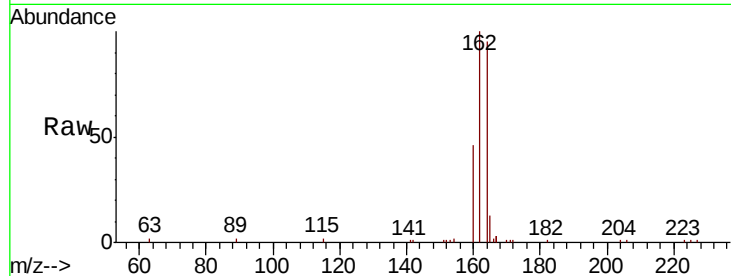
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.36 min Scan# 912
Delta R.T. 0.00 min
Lab File: BE101043.D
Acq: 13 Jan 2020 18:12

Instrument :
BNA_E
ClientSampleId :
SB-18(3-5)

Tot Ion	Ratio	Lower	Upper
164	100		
162	105.6	84.1	126.1
160	48.4	40.4	60.6

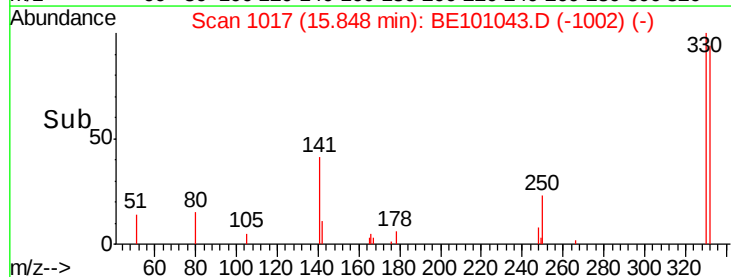
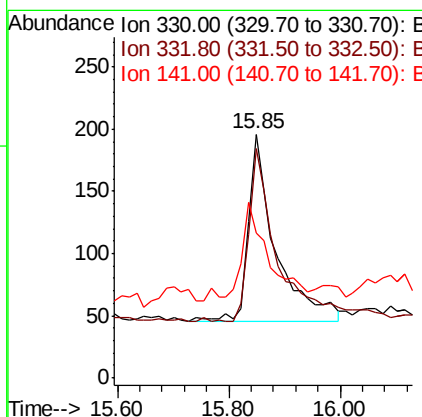
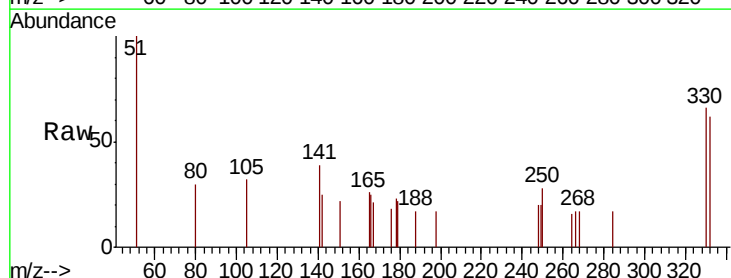
Manual Integrations
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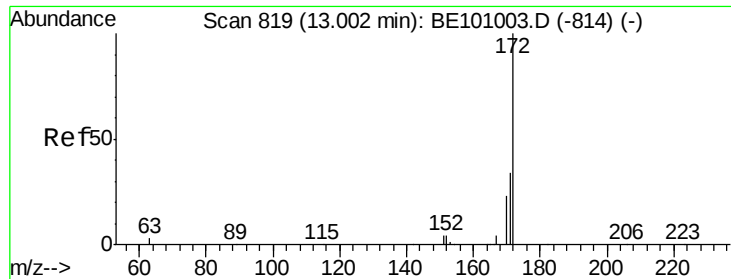
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#14
2,4,6-Tribromophenol
Concen: 0.200 ng
RT: 15.85 min Scan# 1017
Delta R.T. -0.00 min
Lab File: BE101043.D
Acq: 13 Jan 2020 18:12

Tgt Ion	Ratio	Lower	Upper
330	100		
332	94.7	78.4	117.6
141	46.0	37.0	55.4





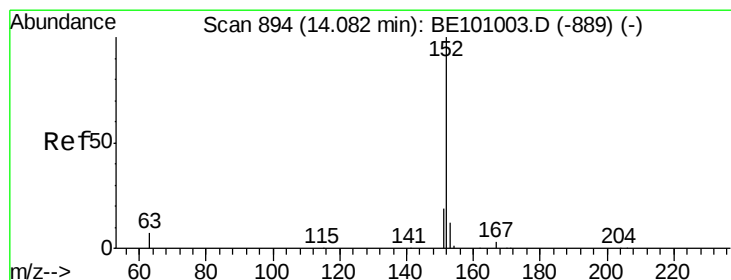
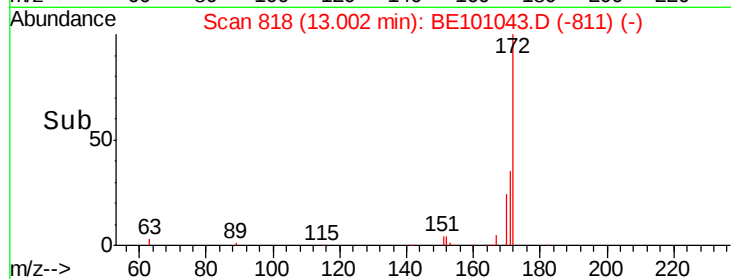
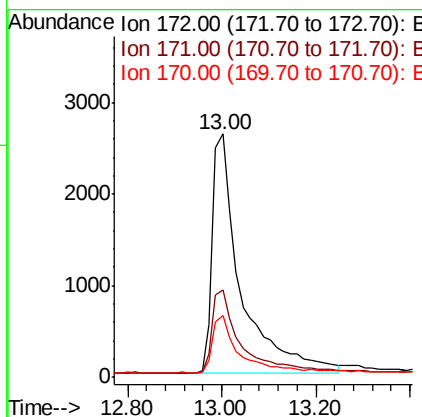
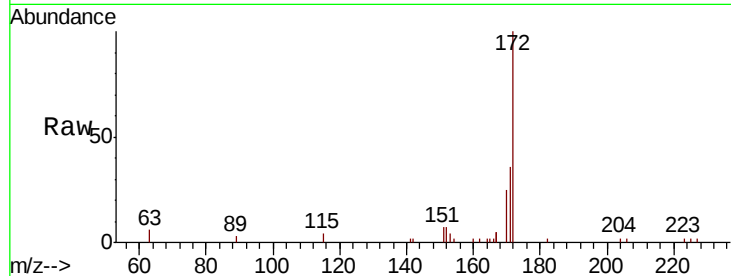
#15
2-Fluorobiphenyl
Concen: 0.322 ng
RT: 13.00 min Scan# 818
Delta R.T. 0.00 min
Lab File: BE101043.D
Acq: 13 Jan 2020 18:12

Instrument :
BNA_E
ClientSampleId :
SB-18(3-5)

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.2	42.2
170	25.4	18.9	28.3

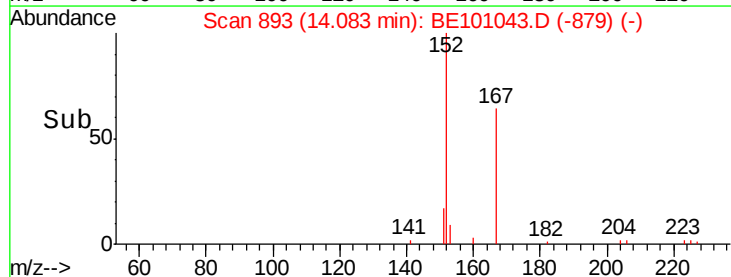
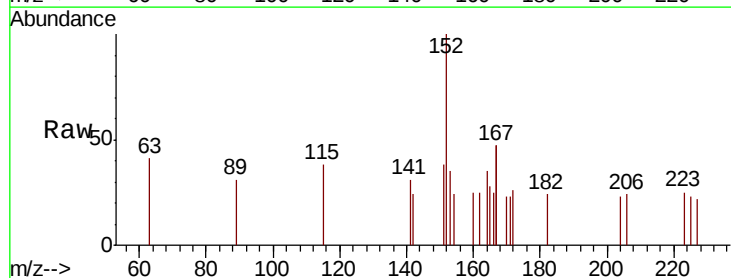
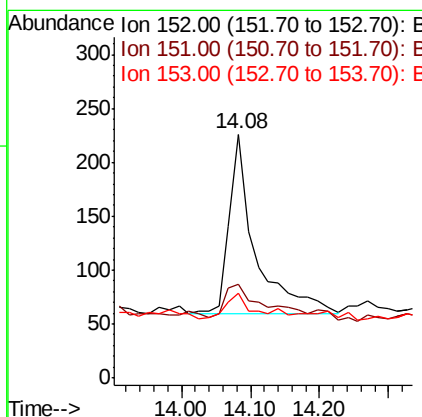
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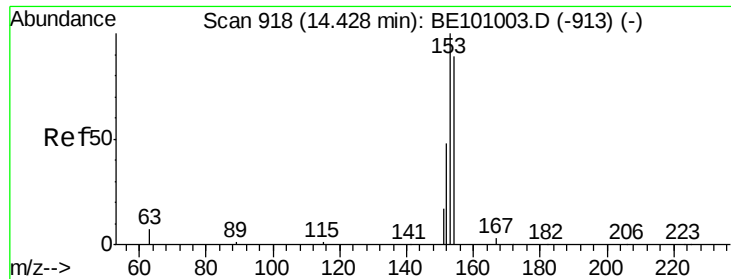
mohammad
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#16
Acenaphthylene
Concen: 0.012 ng
RT: 14.08 min Scan# 893
Delta R.T. 0.00 min
Lab File: BE101043.D
Acq: 13 Jan 2020 18:12

Tgt Ion	Ratio	Lower	Upper
152	100		
151	32.7	15.5	23.3#
153	12.0	10.4	15.6





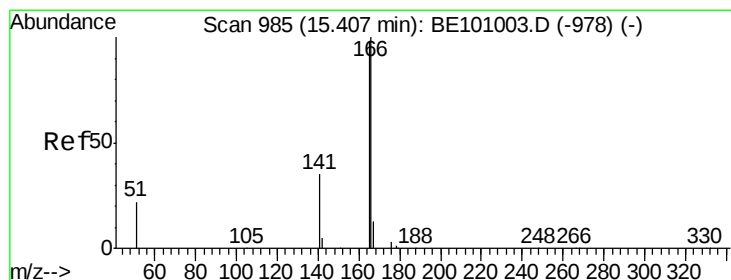
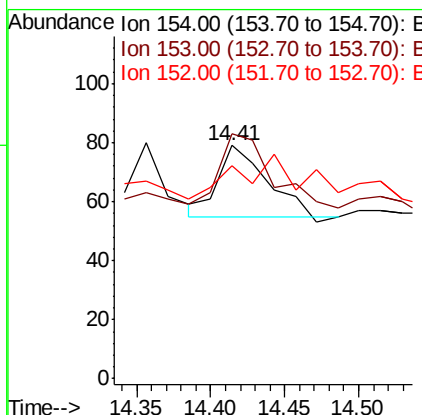
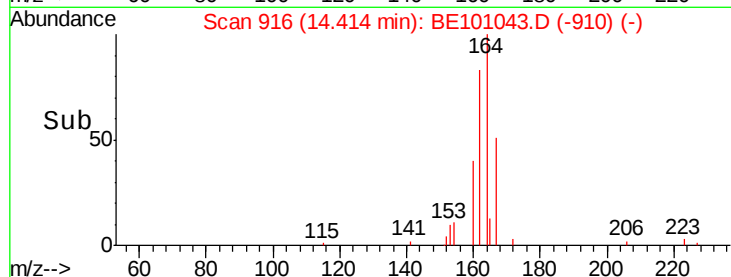
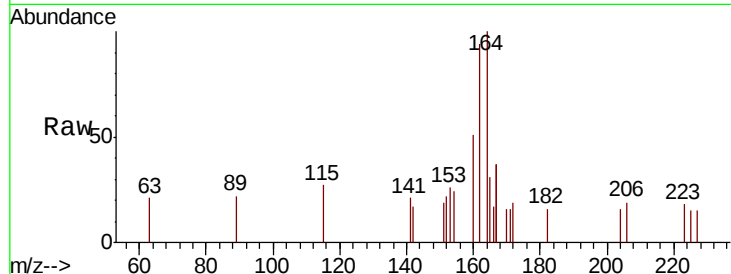
#17
Acenaphthene
Concen: 0.002 ng
RT: 14.41 min Scan# 916
Delta R.T. -0.01 min
Lab File: BE101043.D
Acq: 13 Jan 2020 18:12

Instrument :
BNA_E
ClientSampleId :
SB-18(3-5)

Tot Ion	Ratio	Lower	Upper
154	100		
153	113.0	93.6	140.4
152	0.0	46.3	69.5#

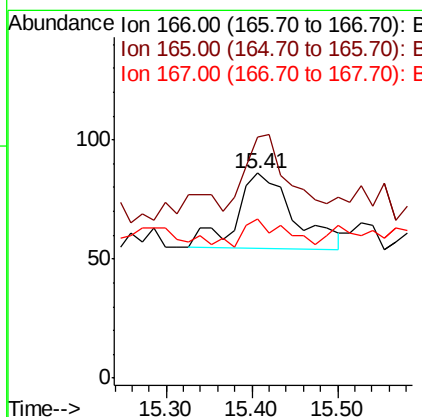
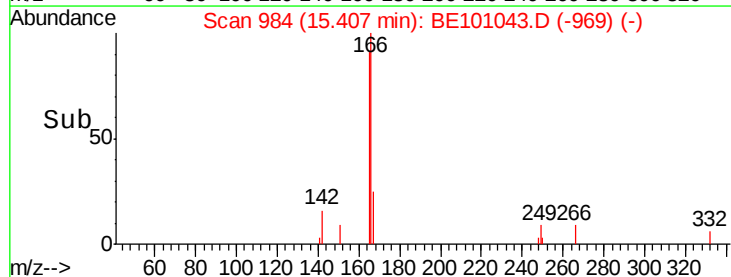
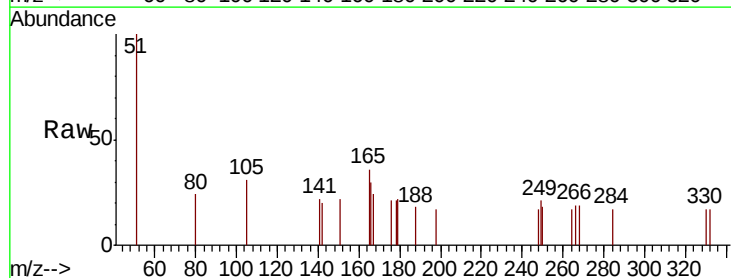
Manual Integrations
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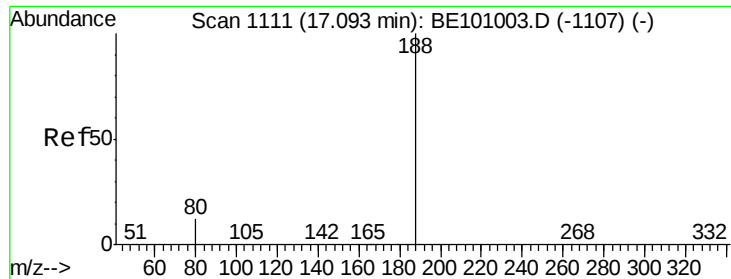
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#18
Fluorene
Concen: 0.004 ng
RT: 15.41 min Scan# 984
Delta R.T. -0.00 min
Lab File: BE101043.D
Acq: 13 Jan 2020 18:12

Tgt Ion	Ratio	Lower	Upper
166	100		
165	76.2	79.8	119.8#
167	23.1	11.0	16.6#





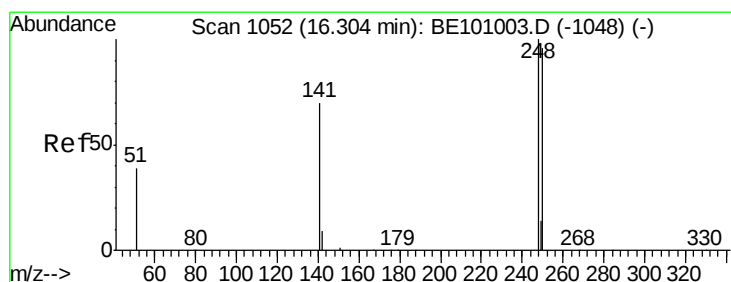
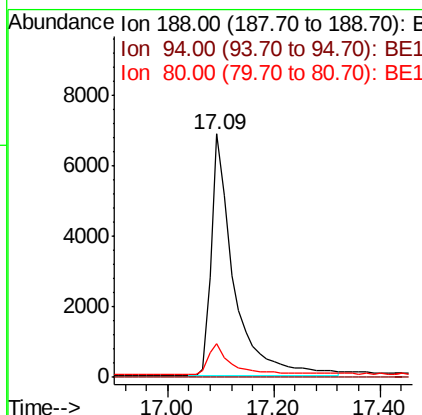
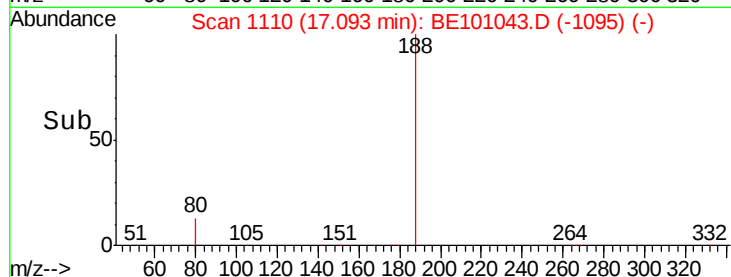
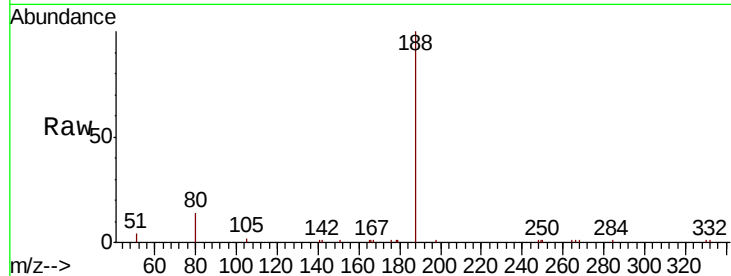
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.09 min Scan# 1110
Delta R.T. -0.00 min
Lab File: BE101043.D
Acq: 13 Jan 2020 18:12

Instrument :
BNA_E
ClientSampleId :
SB-18(3-5)

Tot Ion	Ratio	Resp	Lower	Upper
188	100	19933		
94	0.0	0.0	0.0	0.0
80	13.8	10.8	16.2	

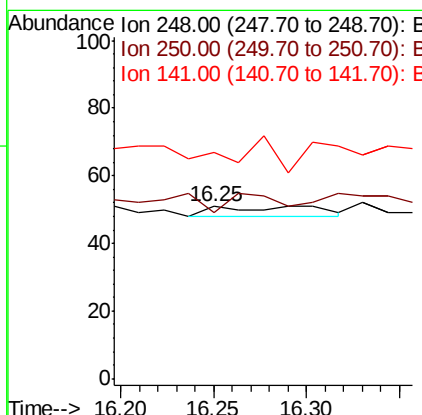
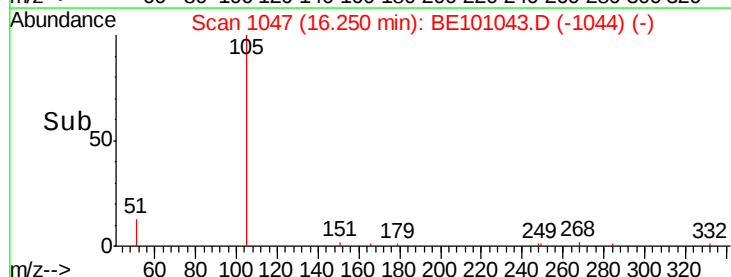
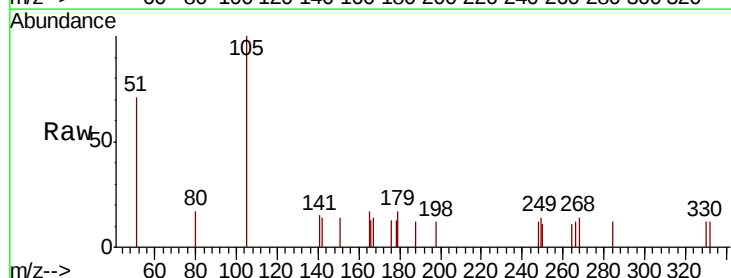
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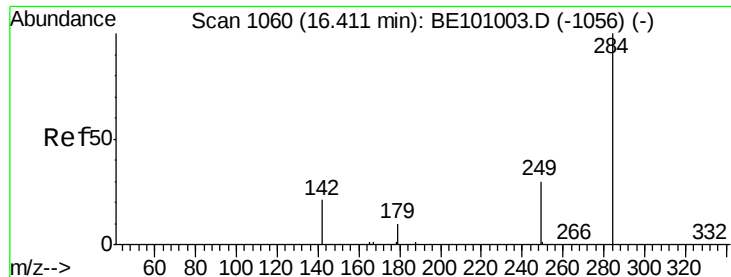
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#20
4-Bromophenyl-phenylether
Concen: 0.001 ng
RT: 16.25 min Scan# 1047
Delta R.T. -0.05 min
Lab File: BE101043.D
Acq: 13 Jan 2020 18:12

Tgt Ion	Ratio	Resp	Lower	Upper
248	100	11		
250	96.1	76.6	115.0	
141	131.4	57.7	86.5#	





#21

Hexachlorobenzene

Concen: 0.003 ng

RT: 16.38 min Scan# 1057

Delta R.T. -0.03 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

Instrument :

BNA_E

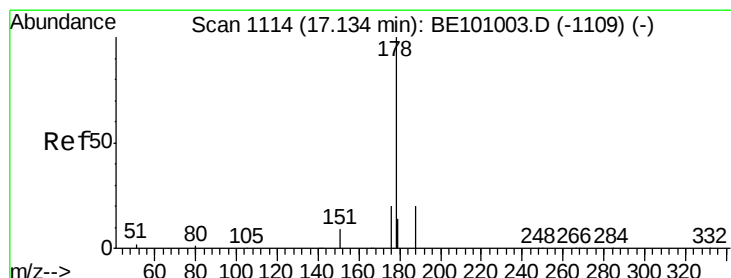
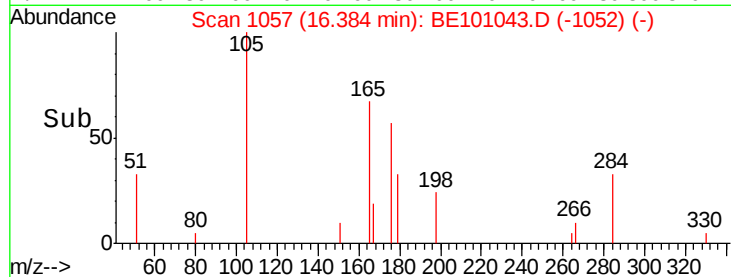
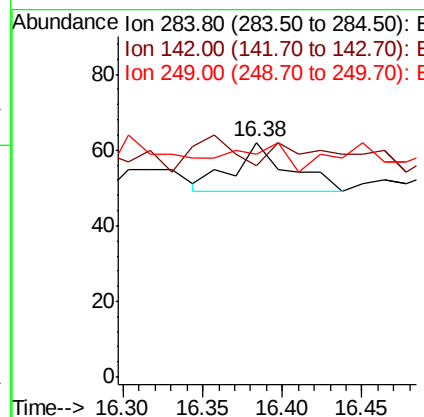
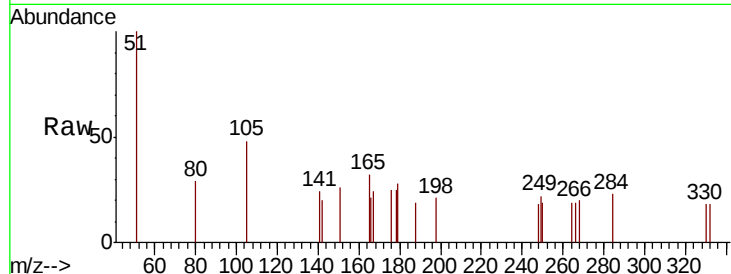
ClientSampleId :

SB-18(3-5)

Tot Ion:	284	Resp:	31
Ion Ratio	Lower	Upper	
284	100		
142	90.3	34.0	51.0#
249	48.4	28.2	42.4#

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#23

Phenanthrene

Concen: 0.042 ng

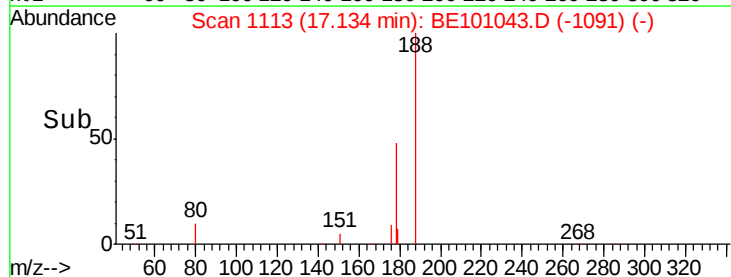
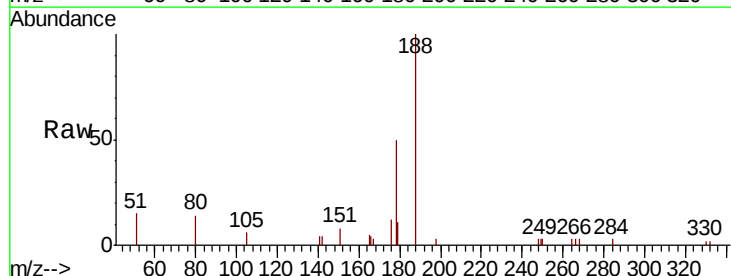
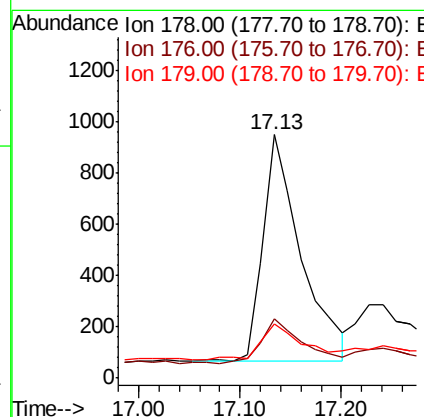
RT: 17.13 min Scan# 1113

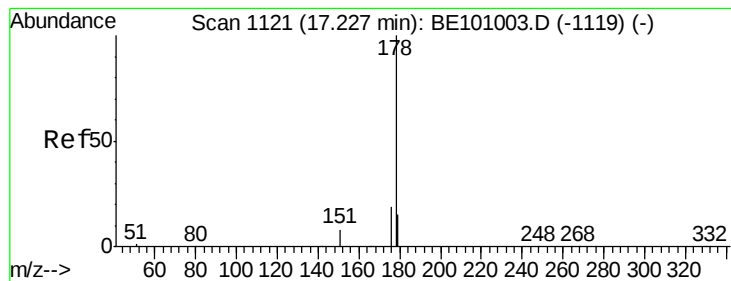
Delta R.T. -0.00 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

Tgt Ion:	178	Resp:	2311
Ion Ratio	Lower	Upper	
178	100		
176	21.0	15.7	23.5
179	17.4	12.0	18.0





#24

Anthracene

Concen: 0.019 ng

RT: 17.24 min Scan# 1121

Delta R.T. 0.01 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

Instrument :

BNA_E

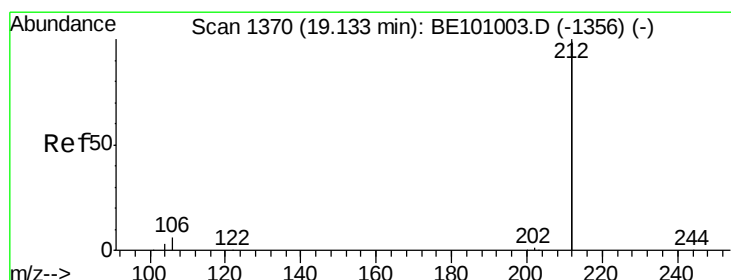
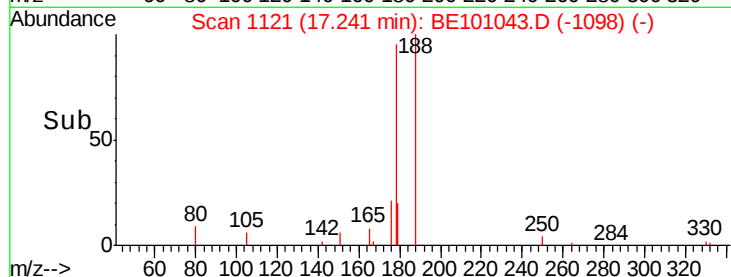
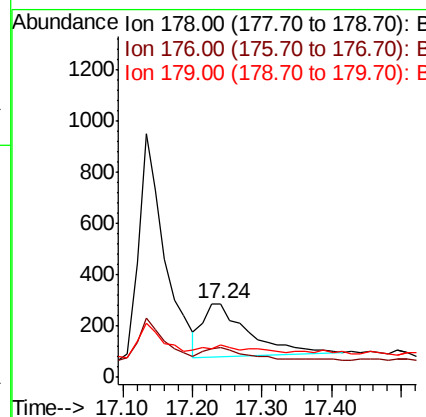
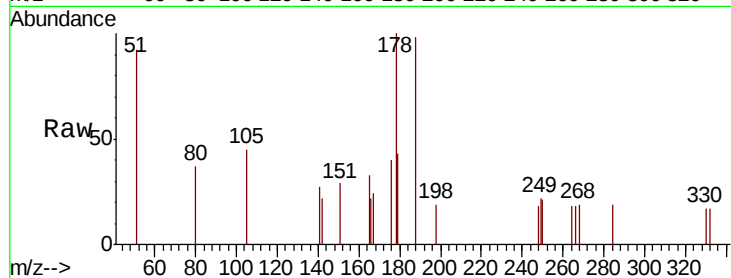
ClientSampleId :

SB-18(3-5)

Tot Ion:	178	Resp:	957
Ion Ratio	Lower	Upper	
178	100		
176	21.0	14.8	22.2
179	17.7	12.4	18.6

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#25

Fluoranthene-d10

Concen: 0.279 ng

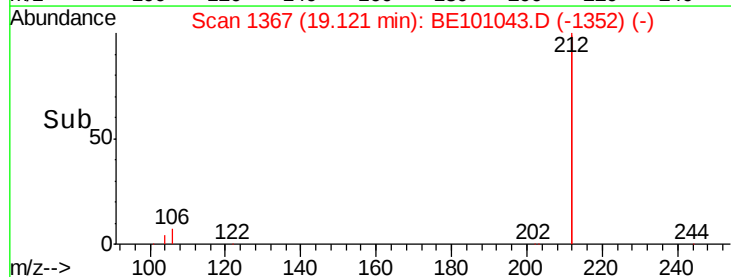
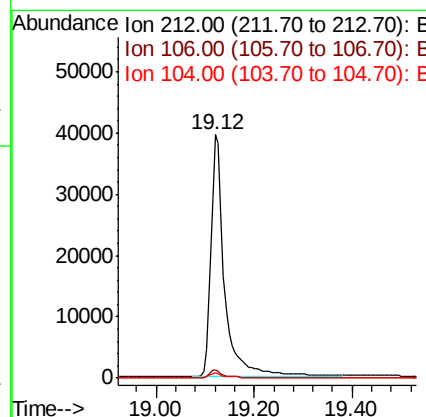
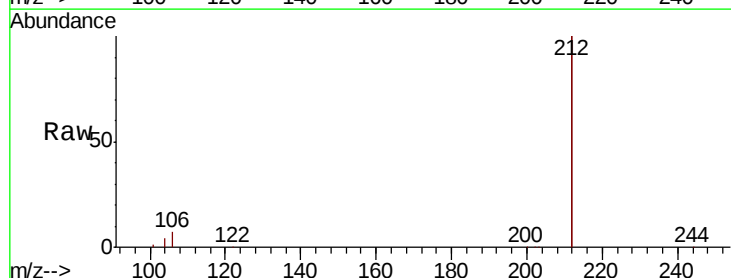
RT: 19.12 min Scan# 1367

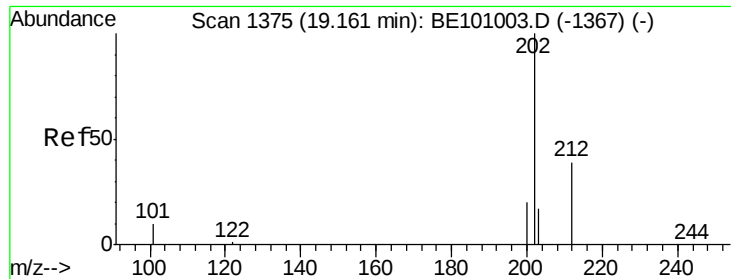
Delta R.T. -0.01 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

Tgt Ion:	212	Resp:	77334
Ion Ratio	Lower	Upper	
212	100		
106	3.2	2.6	3.8
104	1.9	1.4	2.0





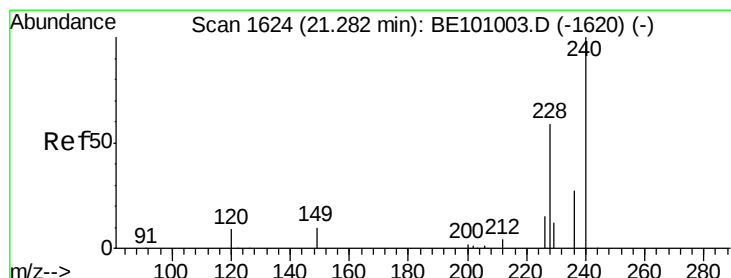
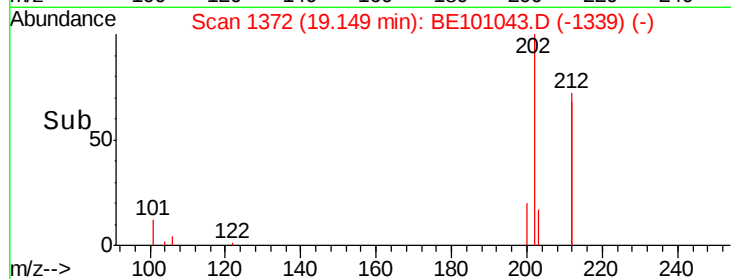
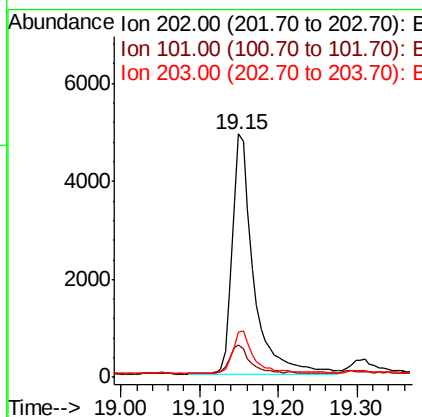
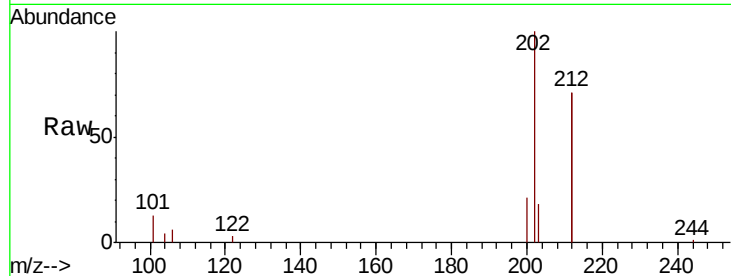
#26
Fluoranthene
Concen: 0.138 ng
RT: 19.15 min Scan# 1372
Delta R.T. -0.01 min
Lab File: BE101043.D
Acq: 13 Jan 2020 18:12

Instrument :
BNA_E
ClientSampleId :
SB-18(3-5)

Tot Ion	Ratio	Lower	Upper
202	100		
101	11.0	9.6	14.4
203	17.1	13.8	20.6

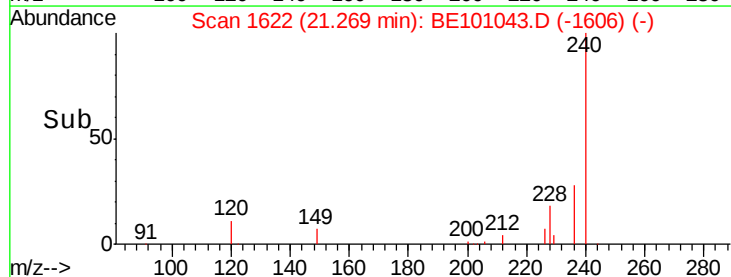
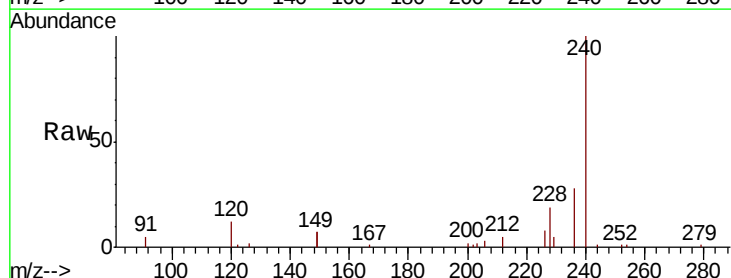
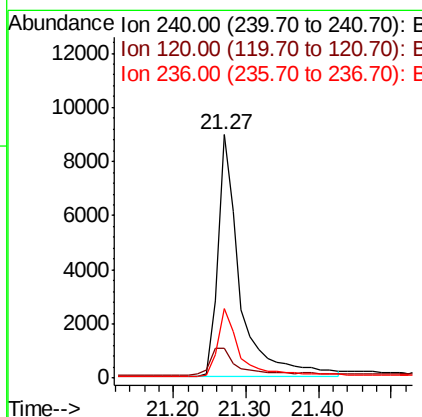
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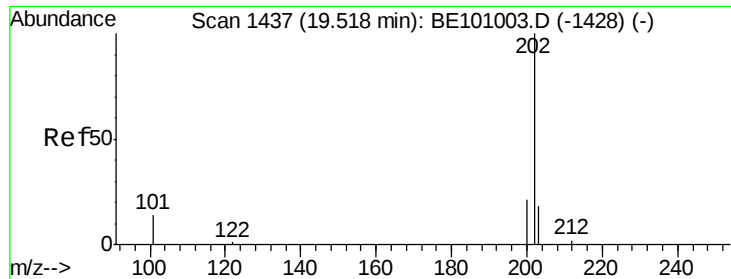
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#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.27 min Scan# 1622
Delta R.T. -0.01 min
Lab File: BE101043.D
Acq: 13 Jan 2020 18:12

Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.0	8.6	13.0
236	28.5	22.2	33.4





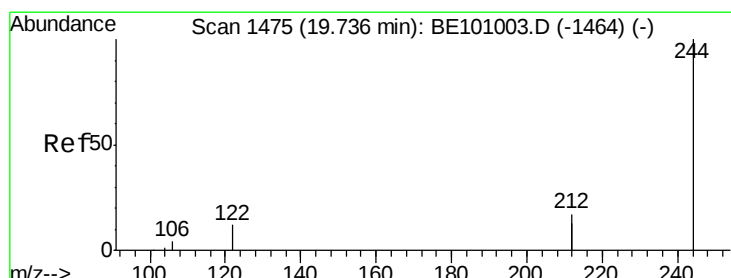
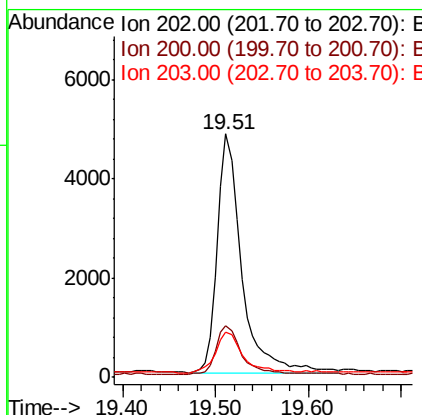
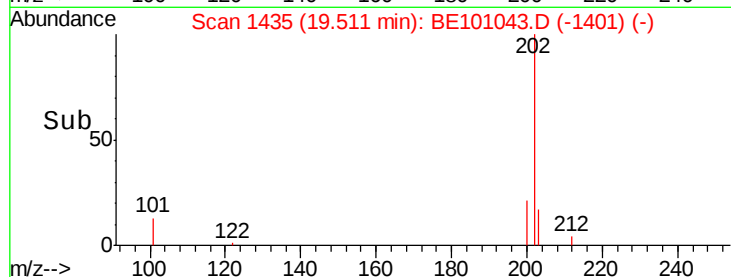
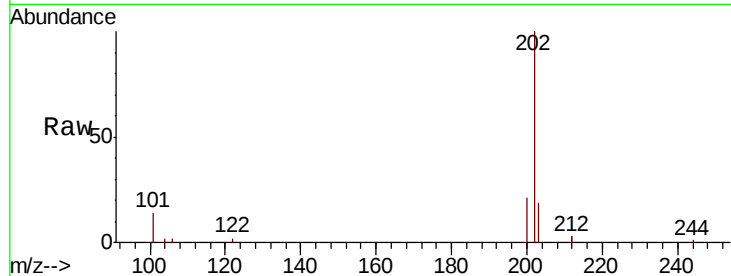
#28
Pvrene
Concen: 0.124 ng
RT: 19.51 min Scan# 1435
Delta R.T. -0.01 min
Lab File: BE101043.D
Acq: 13 Jan 2020 18:12

Instrument :
BNA_E
ClientSampleId :
SB-18(3-5)

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.0	25.4
203	19.3	13.8	20.6

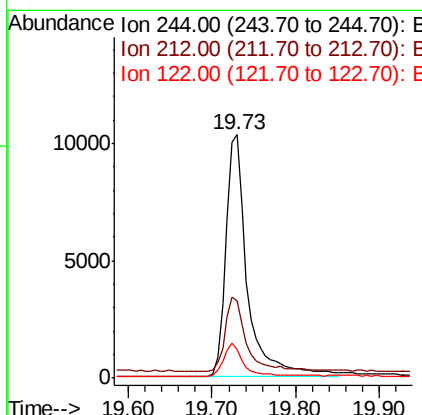
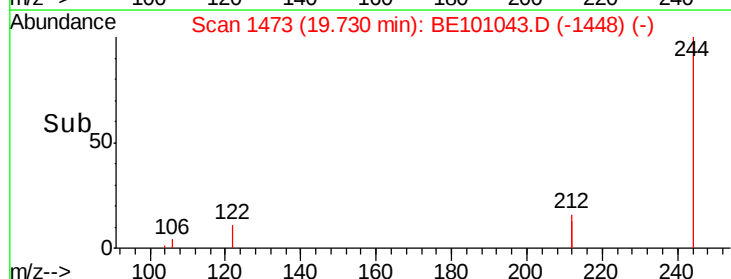
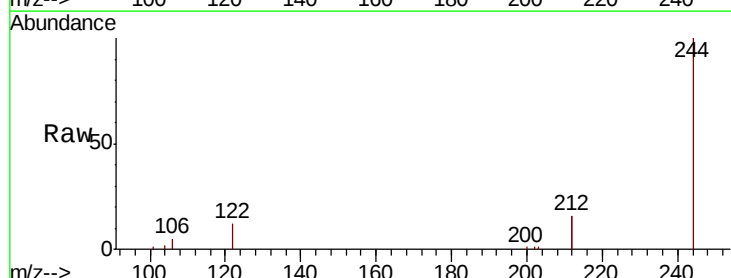
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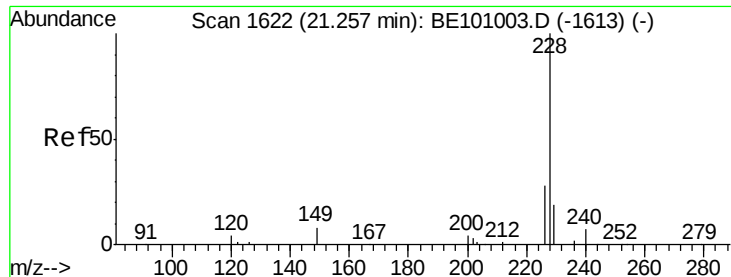
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#29
Terphenyl-d14
Concen: 0.396 ng
RT: 19.73 min Scan# 1473
Delta R.T. -0.01 min
Lab File: BE101043.D
Acq: 13 Jan 2020 18:12

Tgt Ion	Ratio	Lower	Upper
244	100		
212	31.8	27.2	40.8
122	11.7	9.8	14.8





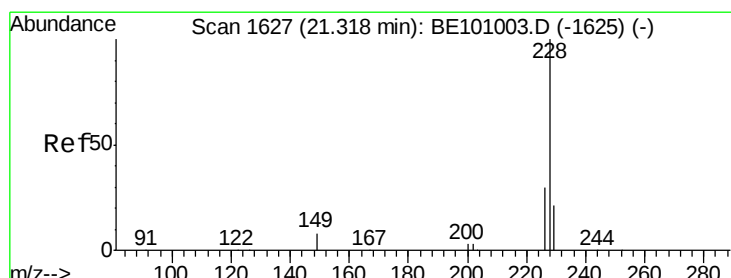
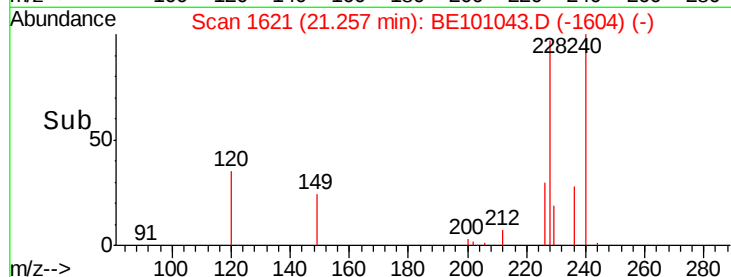
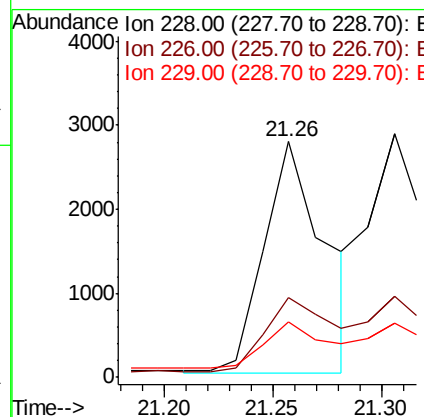
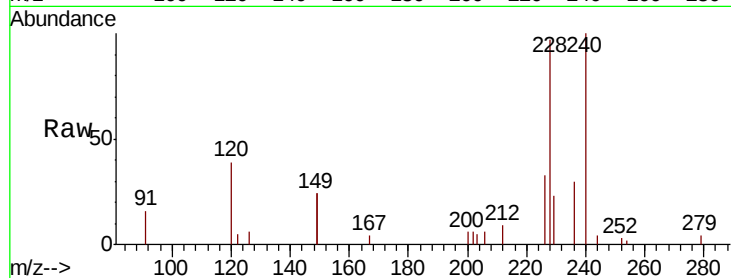
#30
Benzo(a)anthracene
Concen: 0.099 ng m
RT: 21.26 min Scan# 1621
Delta R.T. -0.00 min
Lab File: BE101043.D
Acq: 13 Jan 2020 18:12

Instrument :
BNA_E
ClientSampleId :
SB-18(3-5)

Tot Ion	Ratio	Lower	Upper
228	100		
226	34.2	22.7	34.1#
229	23.3	15.5	23.3#

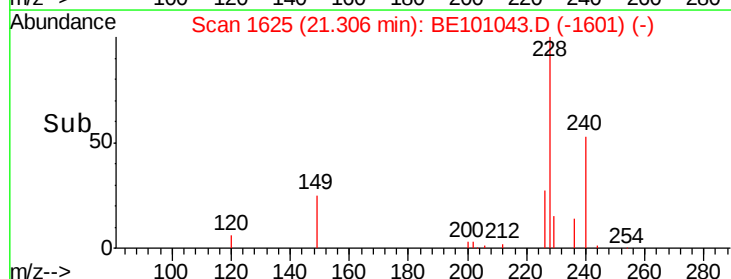
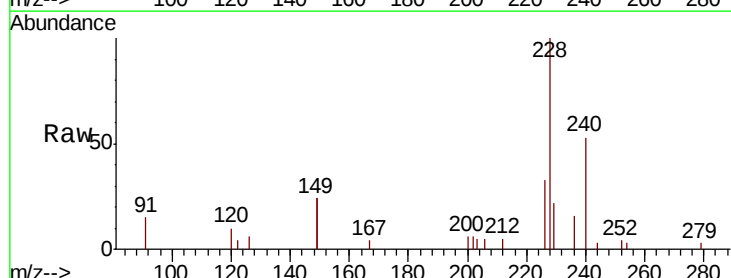
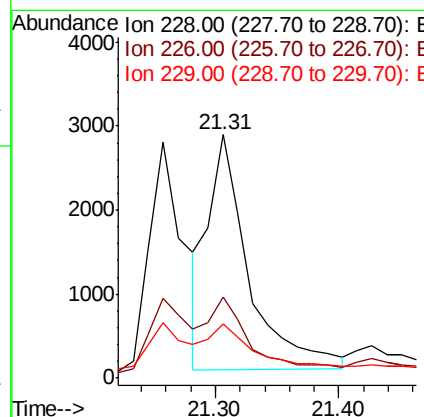
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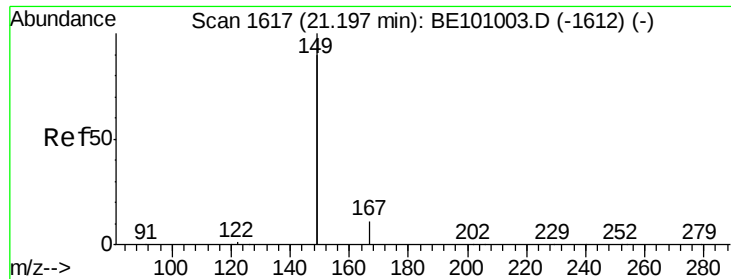
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#31
Chrysene
Concen: 0.080 ng
RT: 21.31 min Scan# 1625
Delta R.T. -0.01 min
Lab File: BE101043.D
Acq: 13 Jan 2020 18:12

Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.1	23.5	35.3
229	22.4	16.7	25.1





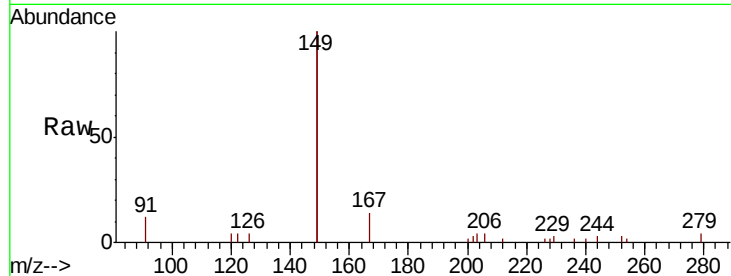
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.091 ng
 RT: 21.20 min Scan# 1616
 Delta R.T. -0.00 min
 Lab File: BE101043.D
 Acq: 13 Jan 2020 18:12

Instrument :
 BNA_E
 ClientSampleId :
 SB-18(3-5)

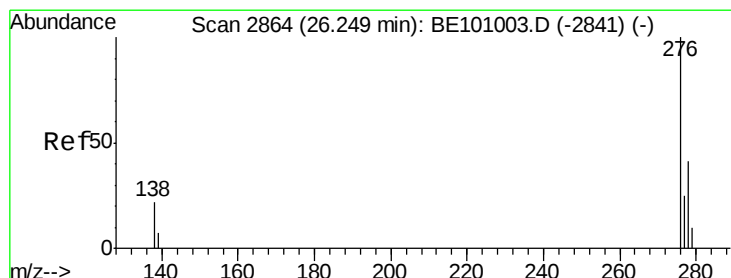
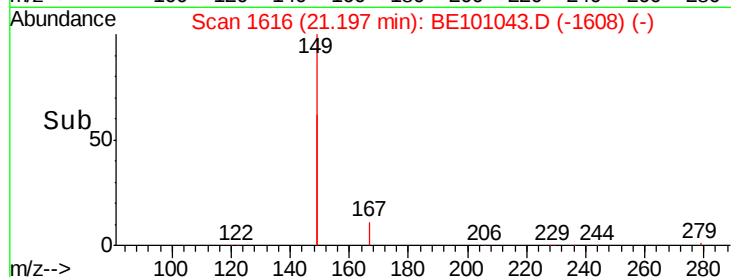
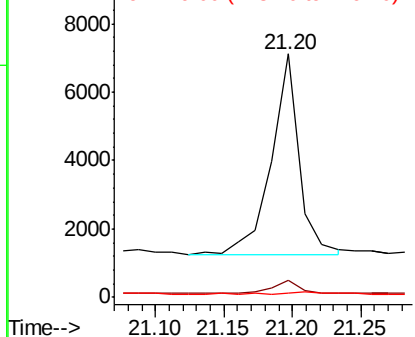
Tot Ion	Ratio	Lower	Upper
149	100		
167	6.2	5.2	7.8
279	1.5	0.8	1.2

Manual Integrations
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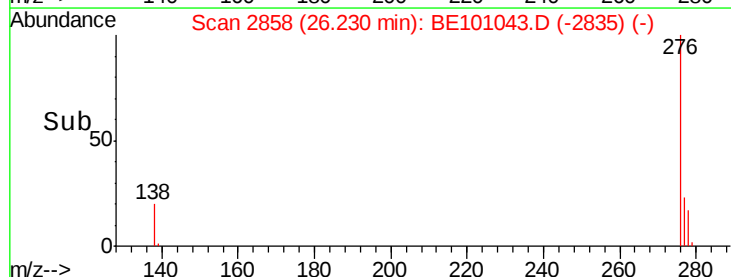
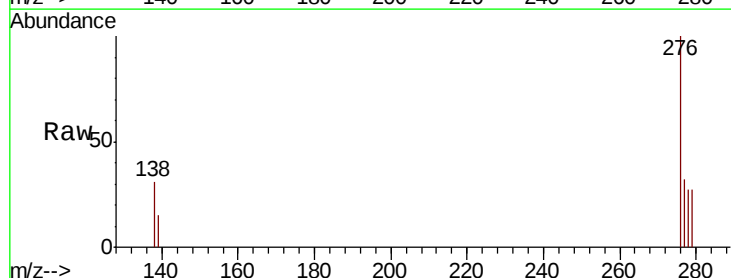
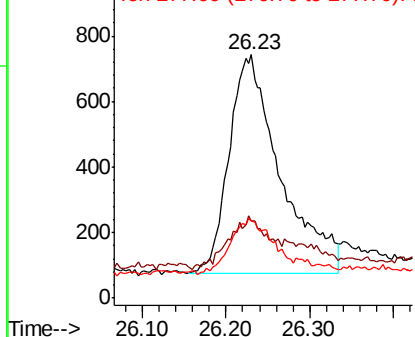
Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 279.00 (278.70 to 279.70): E

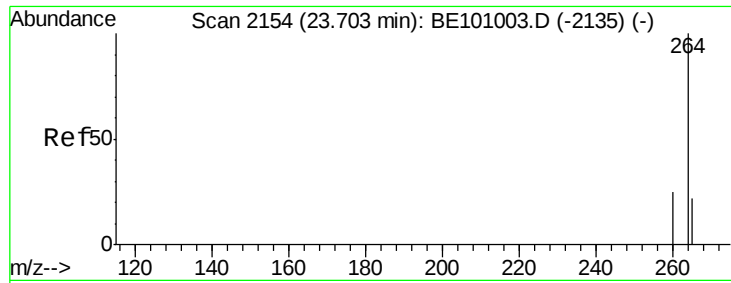


#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.044 ng
 RT: 26.23 min Scan# 2858
 Delta R.T. -0.02 min
 Lab File: BE101043.D
 Acq: 13 Jan 2020 18:12

Tgt Ion	Ratio	Lower	Upper
276	100		
138	19.0	16.1	24.1
277	20.9	18.1	27.1

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





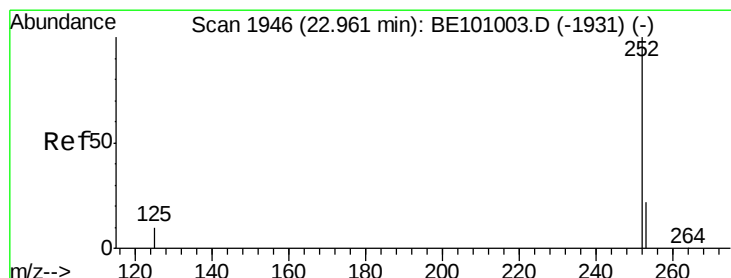
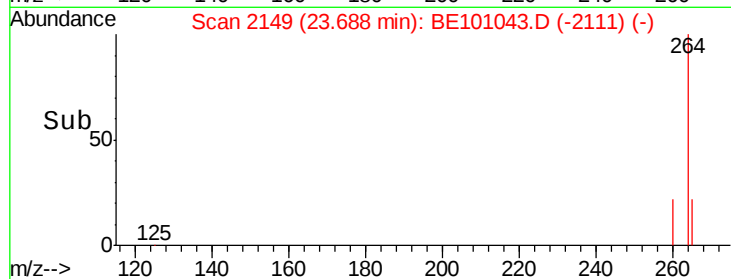
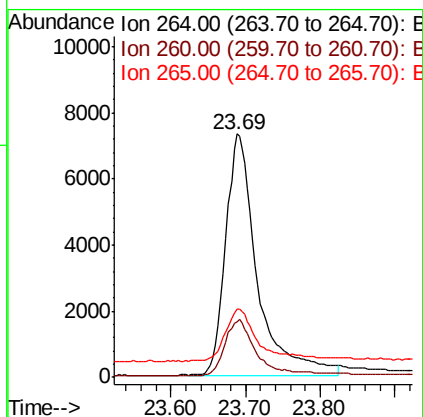
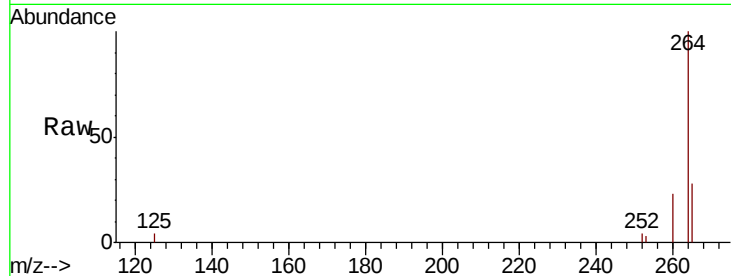
#34
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.69 min Scan# 2149
 Delta R.T. -0.01 min
 Lab File: BE101043.D
 Acq: 13 Jan 2020 18:12

Instrument :
 BNA_E
 ClientSampleId :
 SB-18(3-5)

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.0	20.3	30.5
265	27.8	27.0	40.4

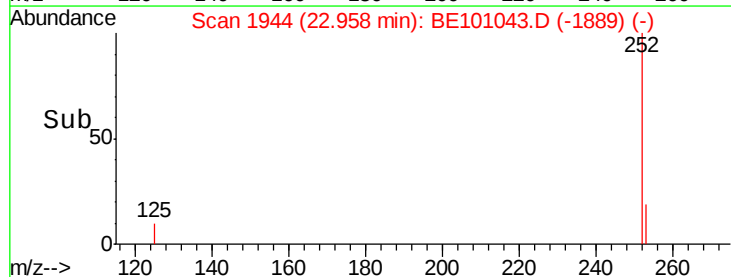
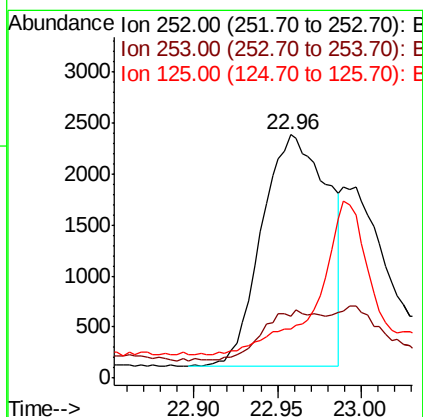
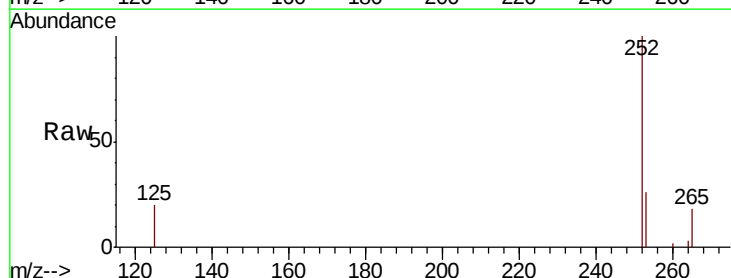
Manual Integrations
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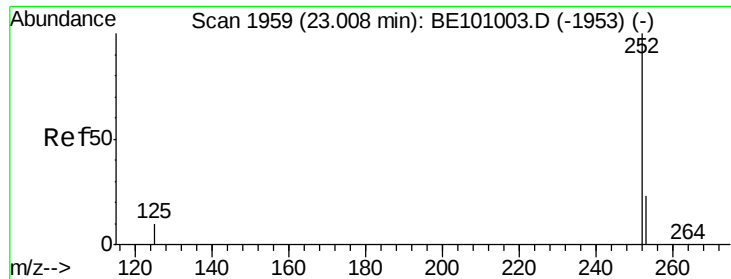
mohammad
 1/14/2020 12:24:02 PM



#35
 Benzo(b)fluoranthene
 Concen: 0.104 ng
 RT: 22.96 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: BE101043.D
 Acq: 13 Jan 2020 18:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.5	18.5	27.7
125	20.2	9.5	14.3





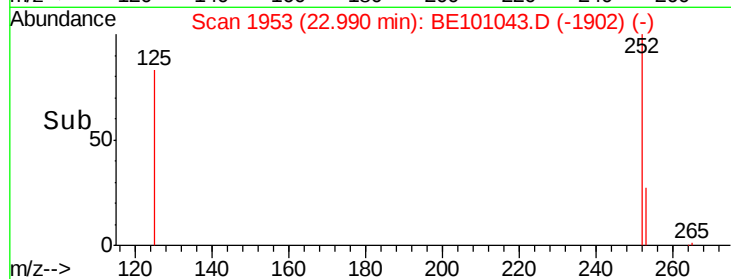
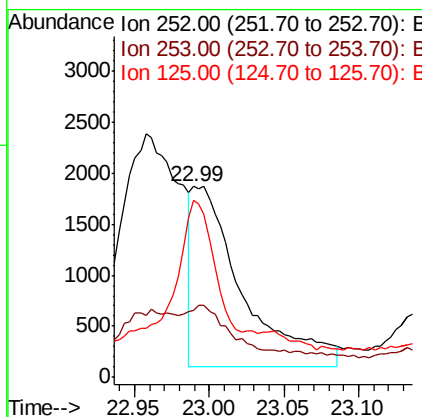
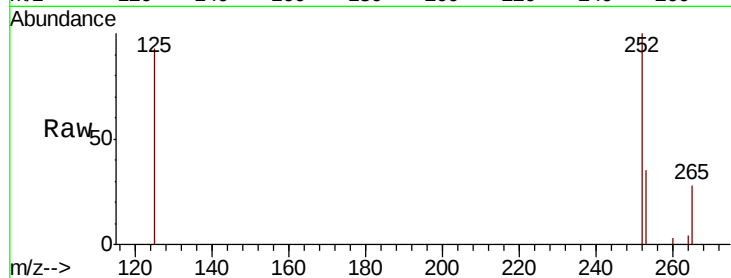
#36
Benzo(k)fluoranthene
Concen: 0.047 ng m
RT: 22.99 min Scan# 1953
Delta R.T. -0.02 min
Lab File: BE101043.D
Acq: 13 Jan 2020 18:12

Instrument :
BNA_E
ClientSampleId :
SB-18(3-5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	34.8	18.9	28.3#
125	92.5	10.1	15.1#

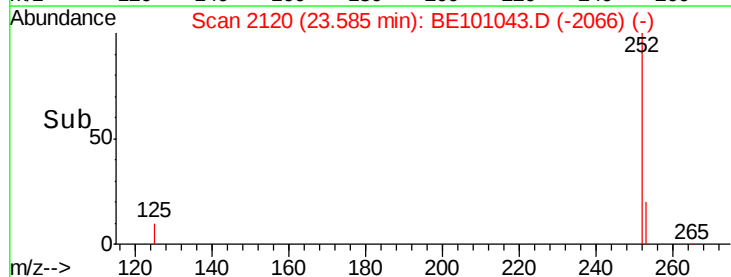
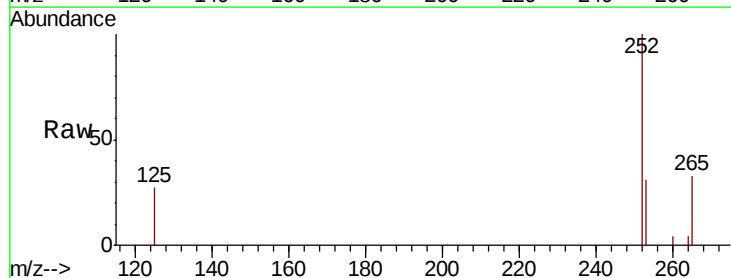
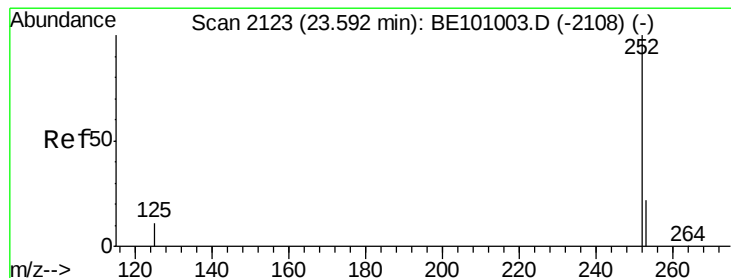
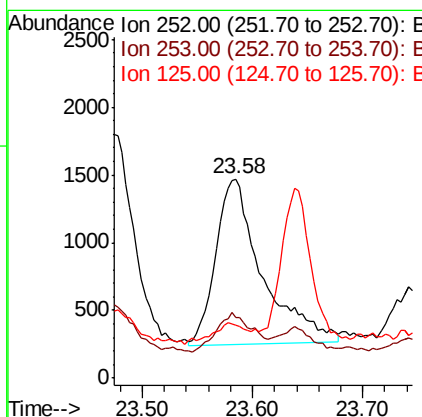
Manual Integrations
APPROVED

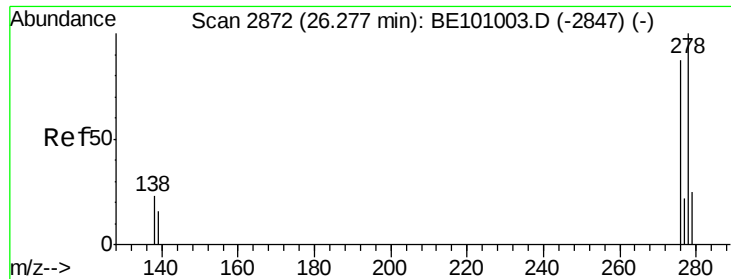
mohammad
1/14/2020 12:24:02 PM



#37
Benzo(a)pyrene
Concen: 0.062 ng
RT: 23.58 min Scan# 2120
Delta R.T. -0.01 min
Lab File: BE101043.D
Acq: 13 Jan 2020 18:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	30.6	19.4	29.2#
125	26.7	11.8	17.6#





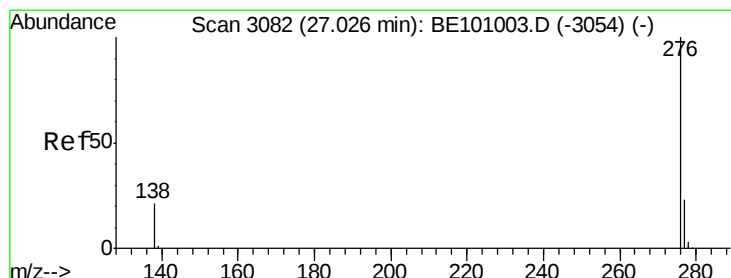
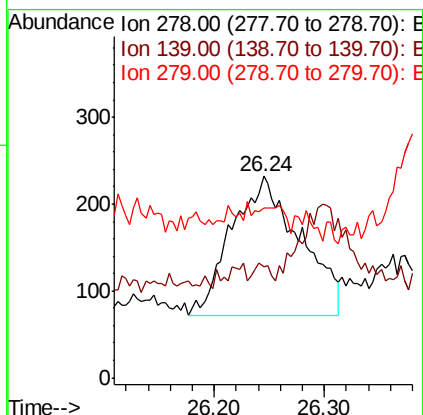
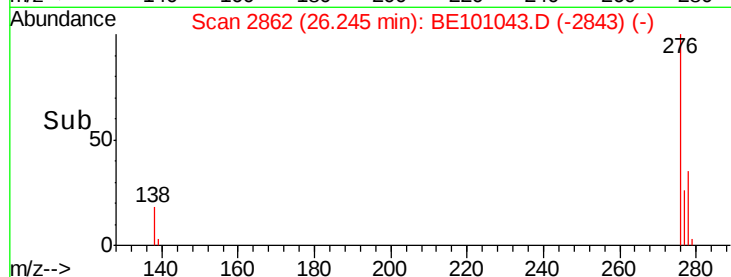
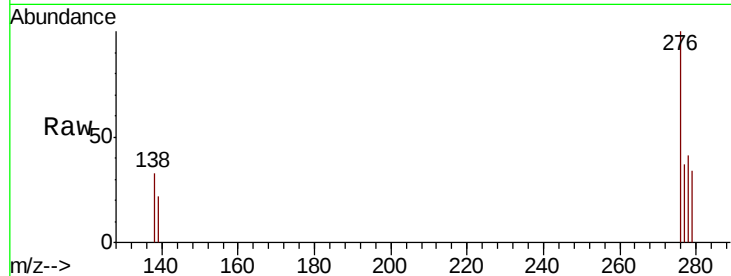
#38
Dibenzo(a,h)anthracene
Concen: 0.013 ng
RT: 26.24 min Scan# 2862
Delta R.T. -0.03 min
Lab File: BE101043.D
Acq: 13 Jan 2020 18:12

Instrument :
BNA_E
ClientSampleId :
SB-18(3-5)

Tot Ion	Ratio	Lower	Upper
278	100		
139	55.2	15.0	22.4#
279	84.5	22.6	33.8#

Manual Integrations
APPROVED

mohammad
1/14/2020 12:24:02 PM



#39
Benzo(g,h,i)perylene
Concen: 0.050 ng
RT: 27.00 min Scan# 3074
Delta R.T. -0.03 min
Lab File: BE101043.D
Acq: 13 Jan 2020 18:12

Tgt Ion	Ratio	Lower	Upper
276	100		
277	29.4	19.4	29.2#
138	31.9	17.9	26.9#

