

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE011320\
 Data File : BE101044.D
 Acq On : 13 Jan 2020 18:48
 Operator : JU
 Sample : L1103-10
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SB-1(4-6)

Manual Integrations
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Quant Time: Jan 14 09:58:02 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	3130	0.40	ng	0.00
7) Naphthalene-d8	10.51	136	13770	0.40	ng	0.01
13) Acenaphthene-d10	14.36	164	9310	0.40	ng	0.00
19) Phenanthrene-d10	17.09	188	21403	0.40	ng	0.00
27) Chrysene-d12	21.27	240	19695	0.40	ng	-0.01
34) Perylene-d12	23.69	264	21903	0.40	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.34	112	1458	0.21	ng	0.00
5) Phenol-d6	6.91	99	1799	0.20	ng	0.00
8) Nitrobenzene-d5	8.89	82	1479	0.15	ng	0.01
11) 2-Methylnaphthalene-d10	12.11	152	5080	0.19	ng	0.00
14) 2,4,6-Tribromophenol	15.85	330	315	0.12	ng	0.00
15) 2-Fluorobiphenyl	13.00	172	8278	0.23	ng	0.00
25) Fluoranthene-d10	19.12	212	61283	0.21	ng	-0.01
29) Terphenyl-d14	19.73	244	11717	0.24	ng	-0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) bis(2-Chloroethyl)ether	7.14	93	28	0.003	ng	# 1
9) Naphthalene	10.55	128	2106	0.014	ng	# 79
10) Hexachlorobutadiene	10.89	225	6	0.001	ng	# 18
12) 2-Methylnaphthalene	12.18	142	263	0.011	ng	# 61
16) Acenaphthylene	14.08	152	625	0.016	ng	# 95
17) Acenaphthene	14.43	154	207	0.008	ng	# 89
18) Fluorene	15.41	166	424	0.012	ng	# 83
20) 4-Bromophenyl-phenylether	16.33	248	11	0.001	ng	# 64
21) Hexachlorobenzene	16.41	284	15	0.001	ng	# 36
23) Phenanthrene	17.13	178	1873	0.032	ng	# 96
26) Fluoranthene	19.15	202	3644	0.050	ng	# 97
28) Pyrene	19.51	202	3989	0.054	ng	# 99
30) Benzo(a)anthracene	21.26	228	2324	0.041	ng	# 81
31) Chrysene	21.30	228	2884	0.035	ng	# 91
32) Bis(2-ethylhexyl)phthalate	21.20	149	10405	0.111	ng	# 99
33) Indeno(1,2,3-cd)pyrene	26.23	276	2499	0.038	ng	# 80
35) Benzo(b)fluoranthene	22.95	252	3094	0.050	ng	# 72
36) Benzo(k)fluoranthene	23.00	252	3347m	0.038	ng	# 72
37) Benzo(a)pyrene	23.58	252	1675	0.028	ng	# 56
38) Dibenzo(a,h)anthracene	26.26	278	811	0.015	ng	# 23
39) Benzo(g,h,i)perylene	27.01	276	3004m	0.045	ng	# 23

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

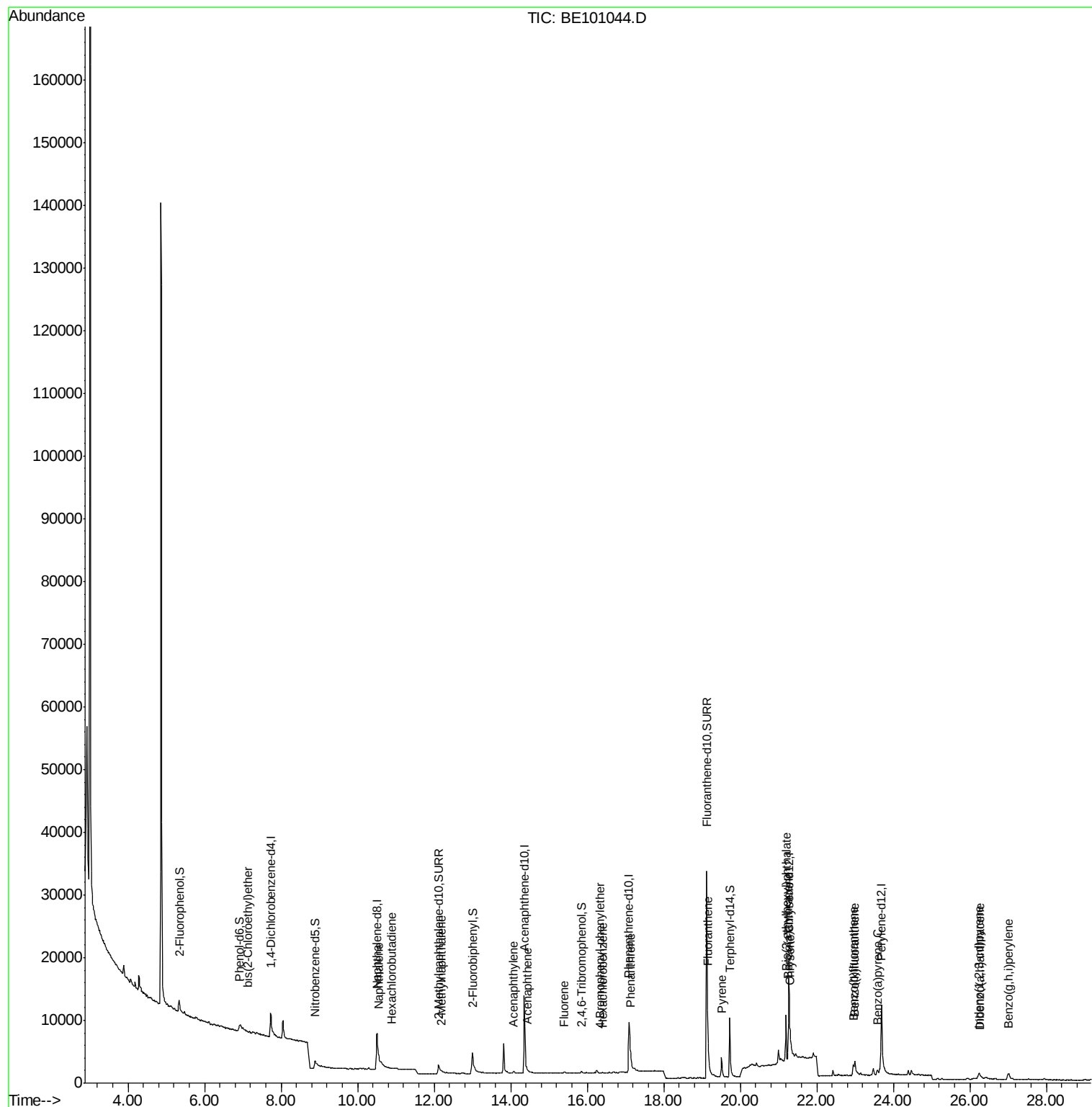
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE011320\
Data File : BE101044.D
Acq On : 13 Jan 2020 18:48
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Instrument :
BNA_E
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SB-1(4-6)

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#1

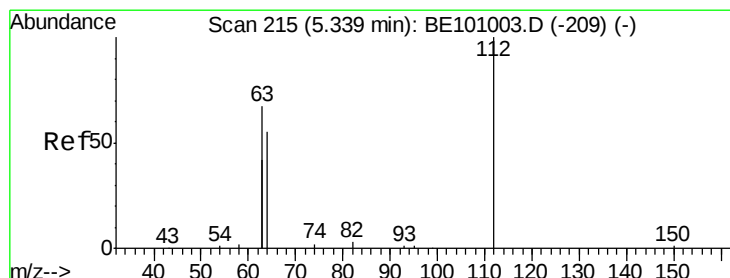
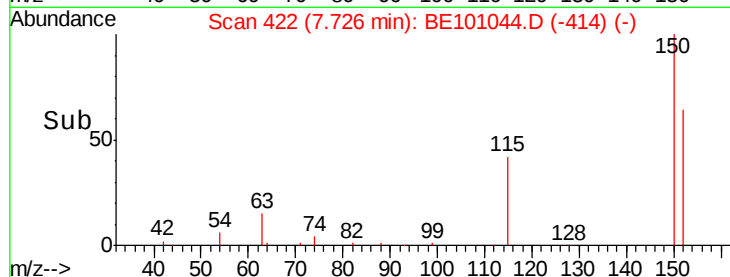
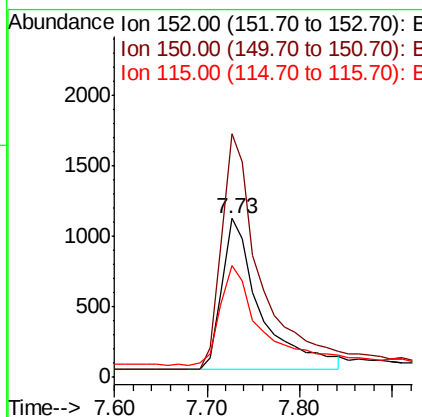
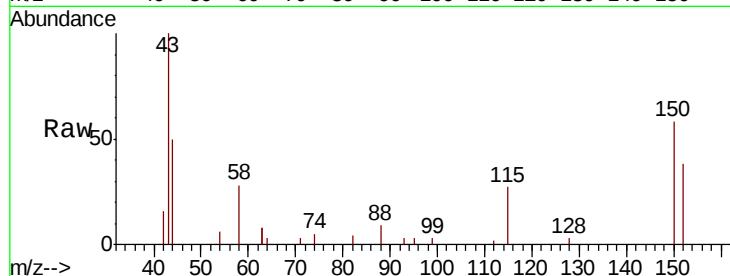
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.73 min Scan# 422
Delta R.T. -0.01 min
Lab File: BE101044.D
Acq: 13 Jan 2020 18:48

Instrument :
BNA_E
ClientSampleId :
SB-1(4-6)

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.2	120.3	180.5
115	70.7	51.7	77.5

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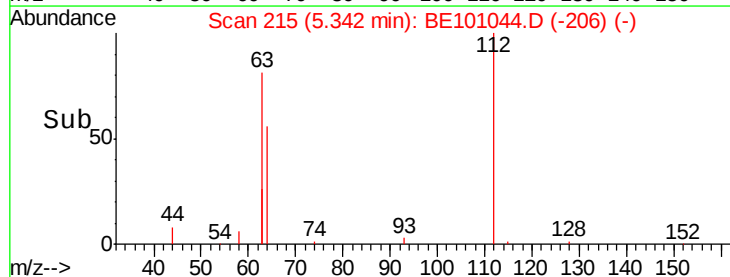
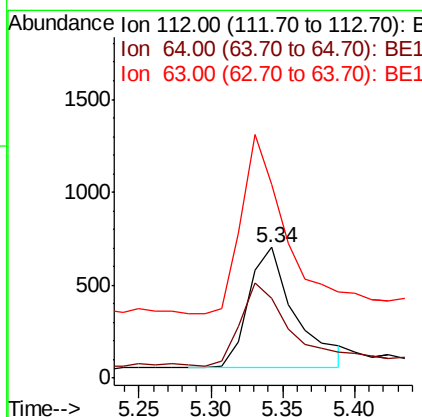
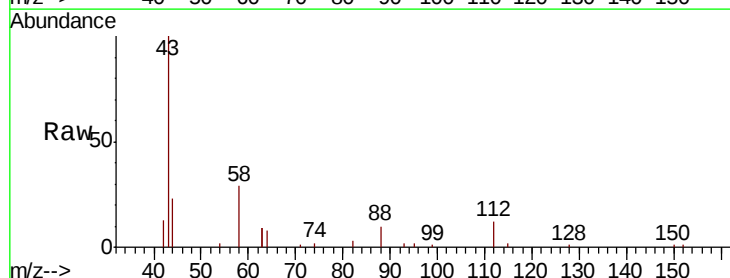
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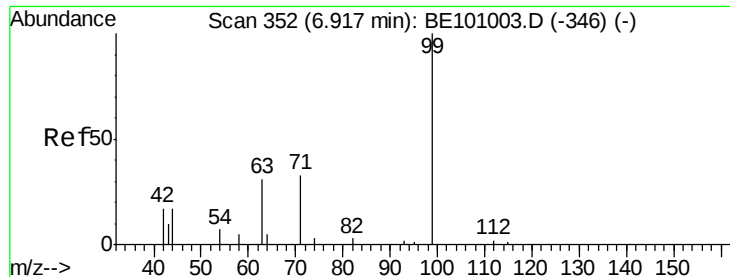


#4

2-Fluorophenol
Concen: 0.207 ng
RT: 5.34 min Scan# 215
Delta R.T. 0.00 min
Lab File: BE101044.D
Acq: 13 Jan 2020 18:48

Tgt Ion	Ratio	Lower	Upper
112	100		
64	72.8	53.6	80.4
63	141.9	114.6	172.0





#5

Phenol-d6

Concen: 0.202 ng

RT: 6.91 min Scan# 351

Delta R.T. -0.01 min

Lab File: BE101044.D

Acq: 13 Jan 2020 18:48

Instrument :

BNA_E

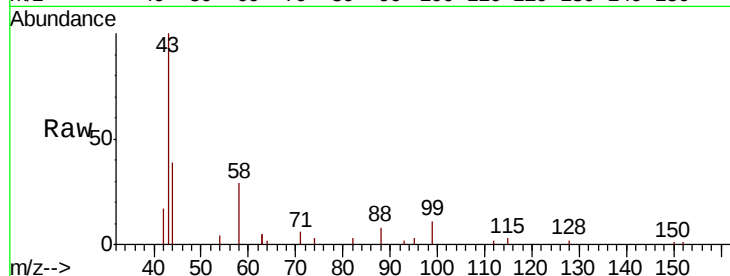
ClientSampled :

SB-1(4-6)

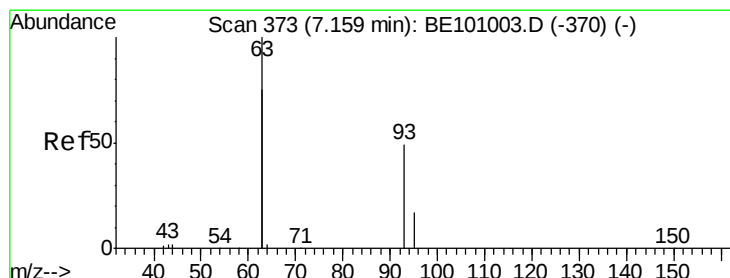
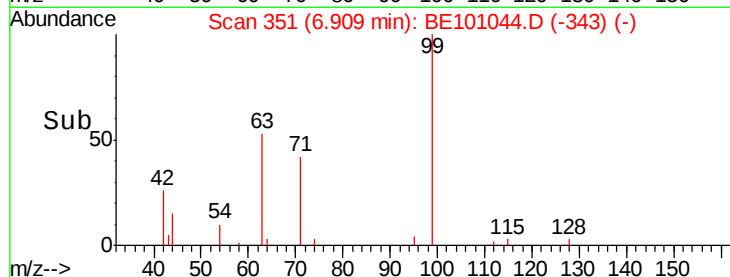
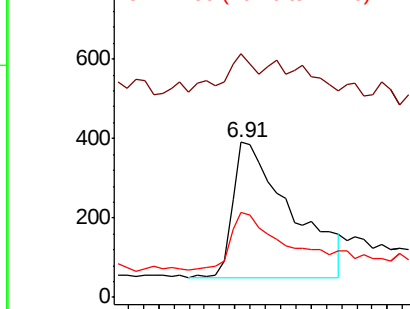
Tot Ion:	99	Resp:	1799
Ion	Ratio	Lower	Upper
99	100		
42	14.1	18.3	27.5#
71	38.9	28.0	42.0

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Abundance Ion 99.00 (98.70 to 99.70): BE1
Ion 42.00 (41.70 to 42.70): BE1
Ion 71.00 (70.70 to 71.70): BE1



#6

bis(2-Chloroethyl)ether

Concen: 0.003 ng

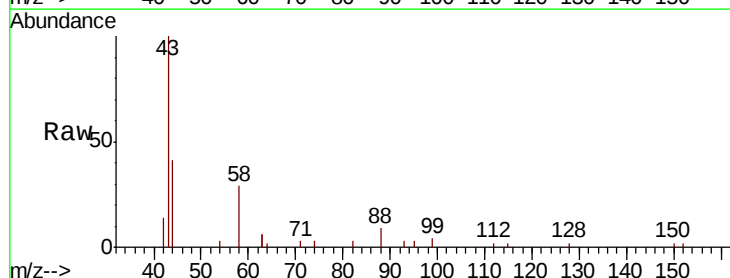
RT: 7.14 min Scan# 371

Delta R.T. -0.02 min

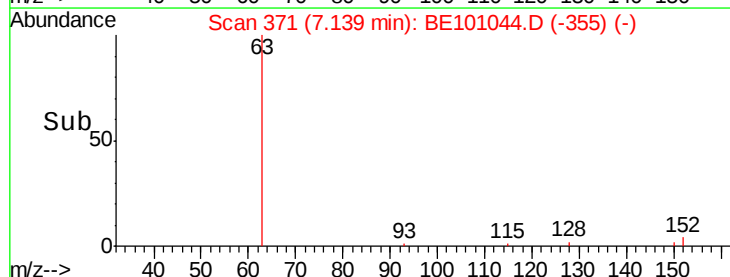
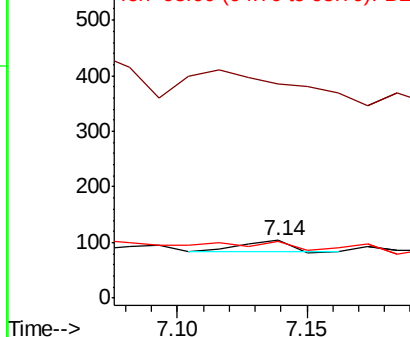
Lab File: BE101044.D

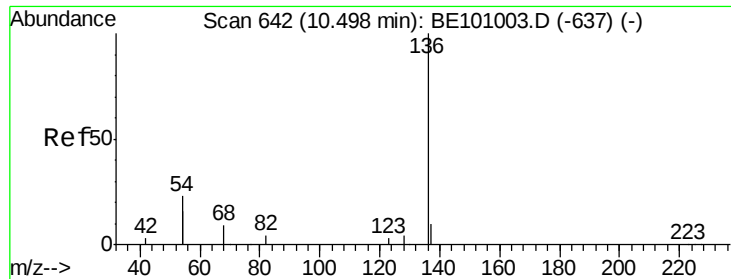
Acq: 13 Jan 2020 18:48

Tgt Ion:	93	Resp:	28
Ion	Ratio	Lower	Upper
93	100		
63	0.0	233.9	350.9#
95	0.0	23.5	35.3#



Abundance Ion 93.00 (92.70 to 93.70): BE1
Ion 63.00 (62.70 to 63.70): BE1
Ion 95.00 (94.70 to 95.70): BE1





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.51 min Scan# 642

Delta R.T. 0.01 min

Lab File: BE101044.D

Acq: 13 Jan 2020 18:48

Instrument :

BNA_E

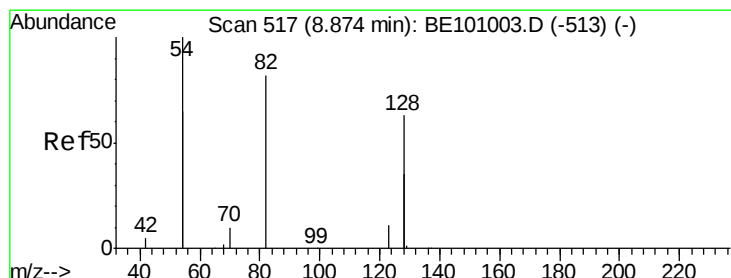
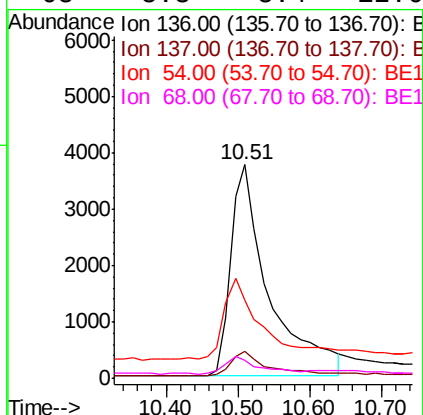
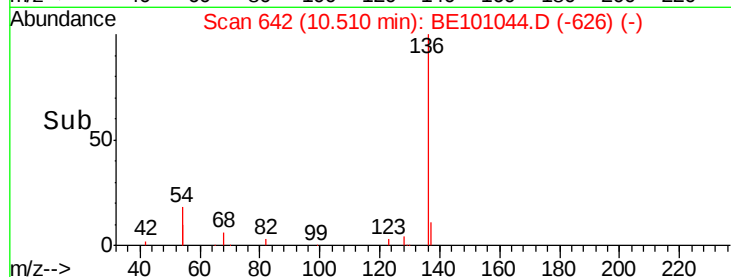
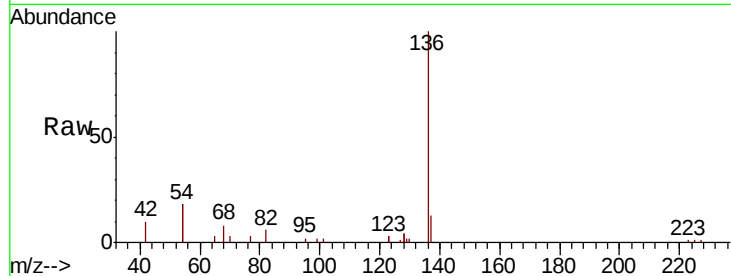
ClientSampleId :

SB-1(4-6)

Tot Ion	Ratio	Lower	Upper
136	100		
137	12.6	9.3	13.9
54	36.4	36.8	55.2#
68	8.3	8.4	12.6#

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#8

Nitrobenzene-d5

Concen: 0.150 ng

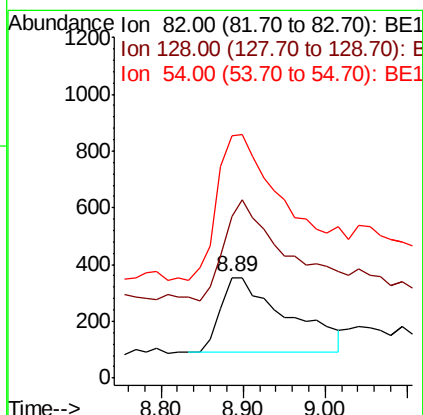
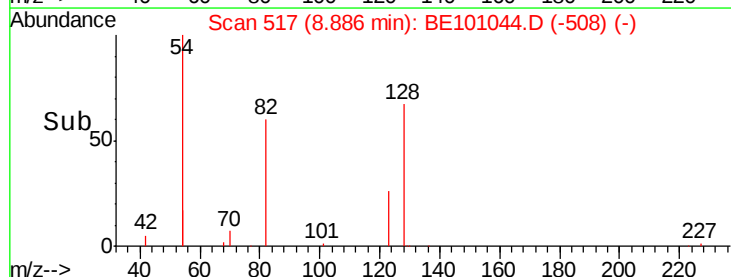
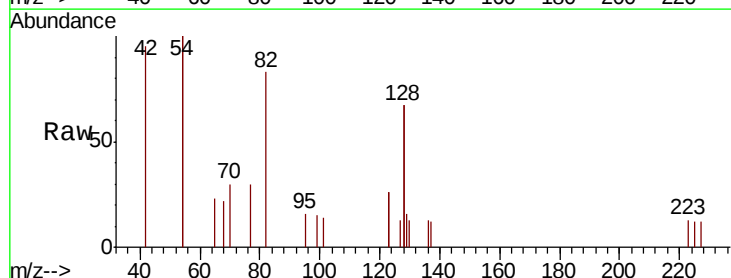
RT: 8.89 min Scan# 517

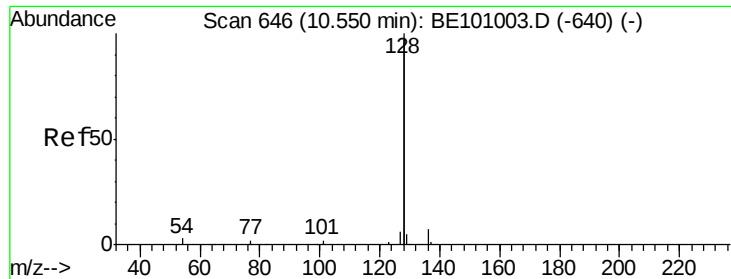
Delta R.T. 0.01 min

Lab File: BE101044.D

Acq: 13 Jan 2020 18:48

Tgt Ion	Ratio	Lower	Upper
82	100		
128	160.5	109.8	164.6
54	240.7	174.5	261.7





#9

Naphthalene

Concen: 0.014 ng

RT: 10.55 min Scan# 645

Delta R.T. -0.00 min

Lab File: BE101044.D

Acq: 13 Jan 2020 18:48

Instrument :

BNA_E

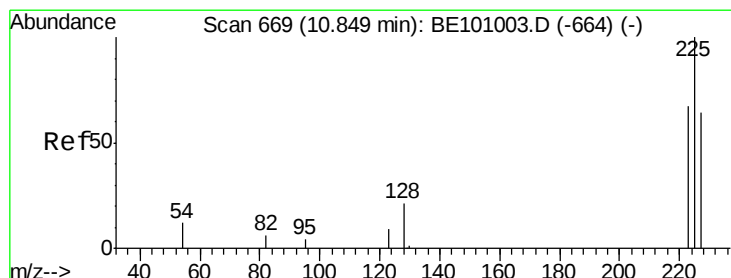
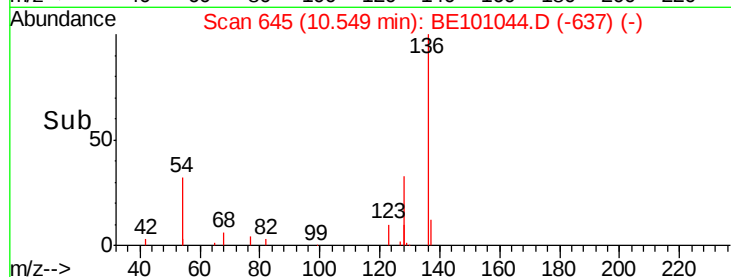
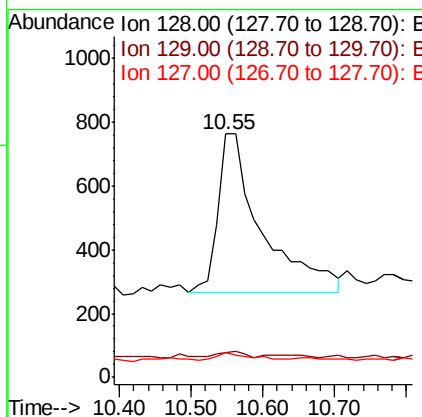
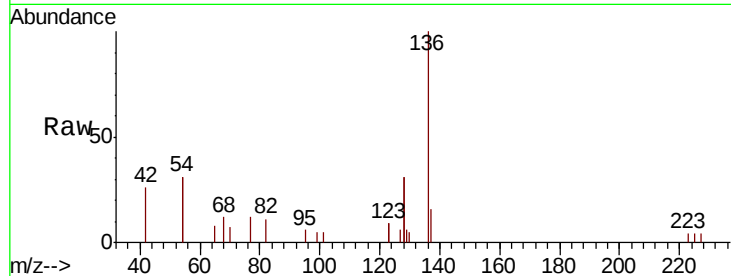
ClientSampled :

SB-1(4-6)

Tot Ion:	128	Resp:	2106
Ion Ratio	Lower	Upper	
128	100		
129	10.2	2.3	3.5#
127	10.3	2.7	4.1#

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#10

Hexachlorobutadiene

Concen: 0.001 ng

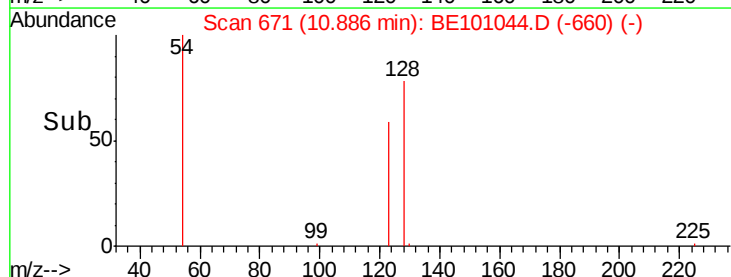
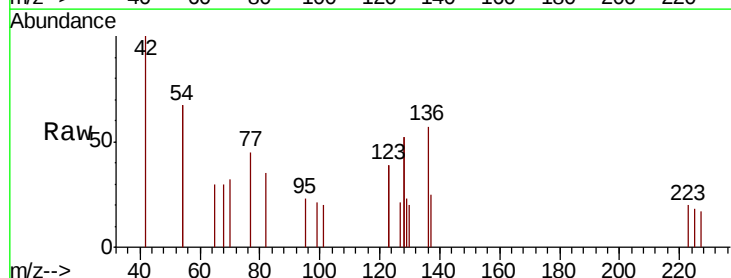
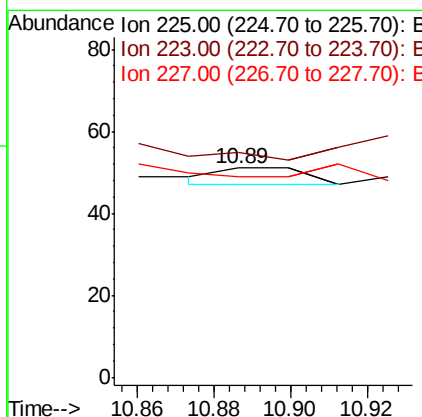
RT: 10.89 min Scan# 671

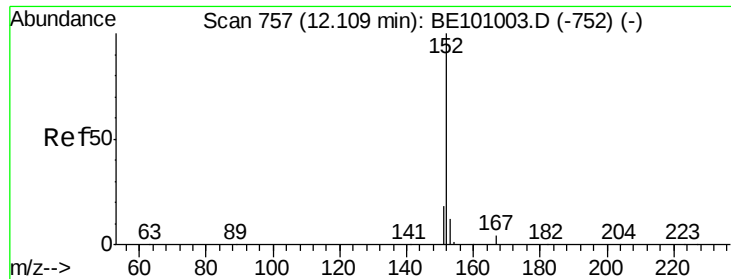
Delta R.T. 0.04 min

Lab File: BE101044.D

Acq: 13 Jan 2020 18:48

Tgt Ion:	225	Resp:	6
Ion Ratio	Lower	Upper	
225	100		
223	0.0	52.2	78.4#
227	0.0	49.9	74.9#





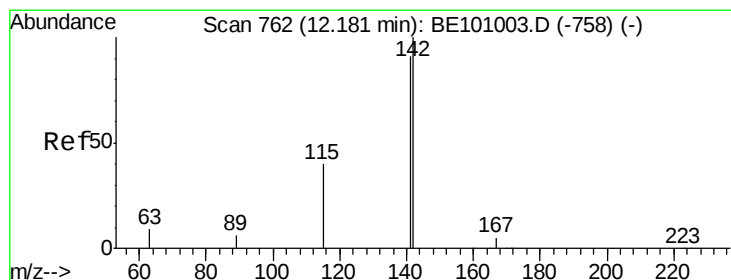
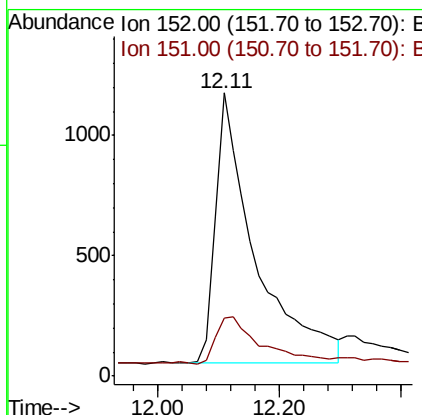
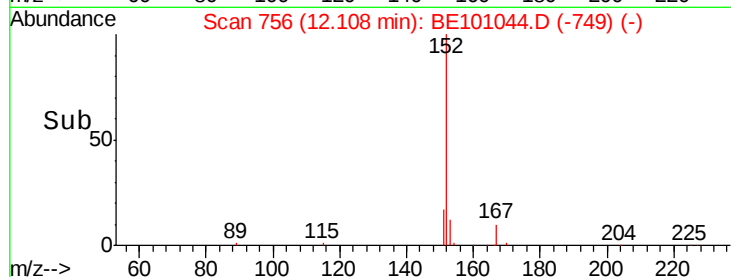
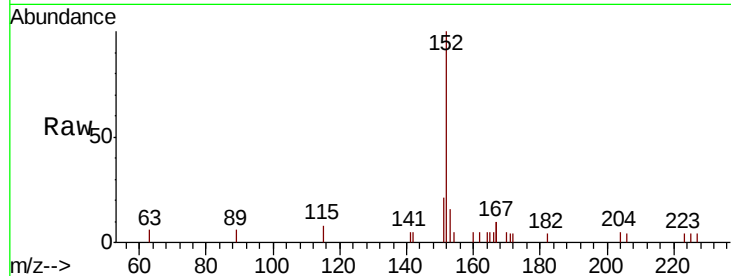
#11
2-Methylnaphthalene-d10
Concen: 0.193 ng
RT: 12.11 min Scan# 756
Delta R.T. -0.00 min
Lab File: BE101044.D
Acq: 13 Jan 2020 18:48

Instrument :
BNA_E
ClientSampleId :
SB-1(4-6)

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.0	22.6

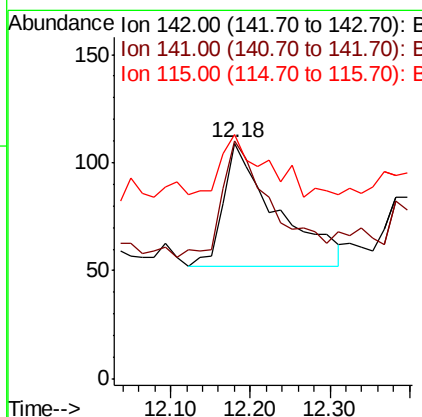
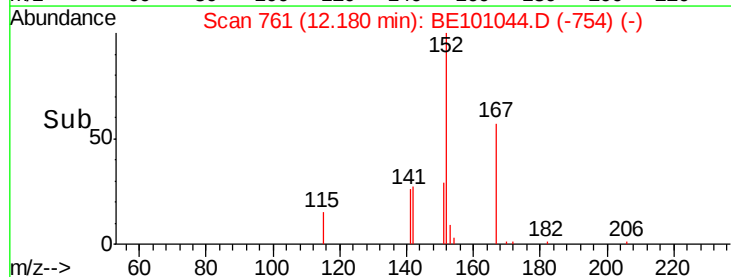
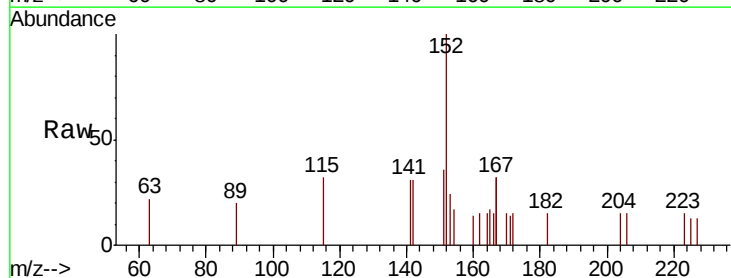
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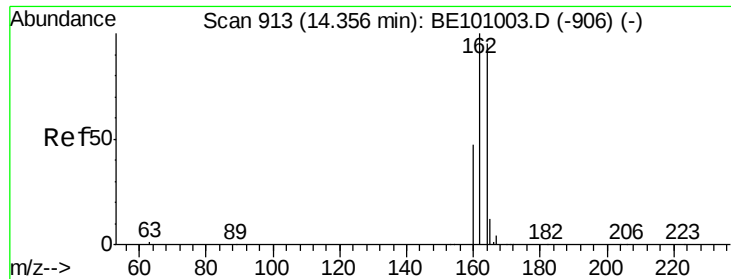
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#12
2-Methylnaphthalene
Concen: 0.011 ng
RT: 12.18 min Scan# 761
Delta R.T. -0.00 min
Lab File: BE101044.D
Acq: 13 Jan 2020 18:48

Tgt Ion	Ratio	Lower	Upper
142	100		
141	100.9	72.5	108.7
115	103.7	33.0	49.6#





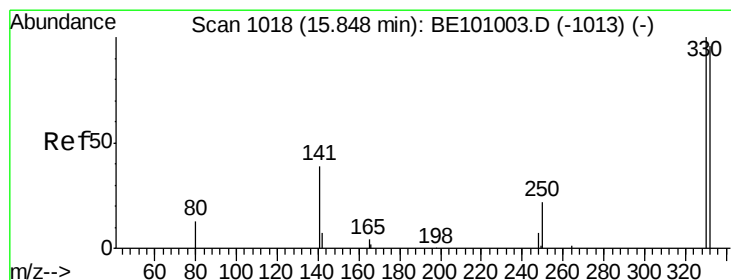
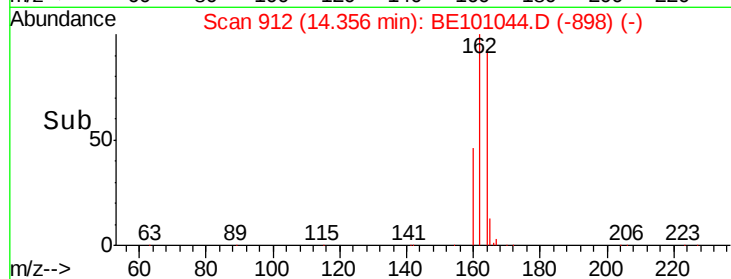
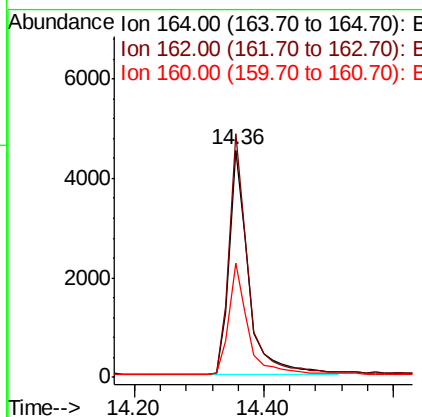
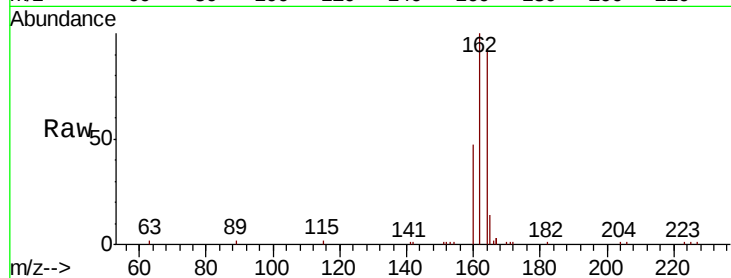
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.36 min Scan# 912
Delta R.T. -0.00 min
Lab File: BE101044.D
Acq: 13 Jan 2020 18:48

Instrument :
BNA_E
ClientSampleId :
SB-1(4-6)

Tot Ion	Ratio	Lower	Upper
164	100		
162	107.3	84.1	126.1
160	50.2	40.4	60.6

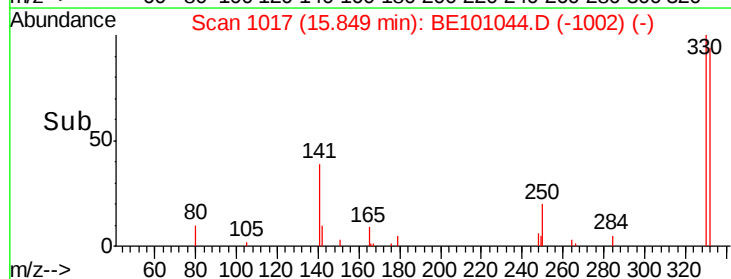
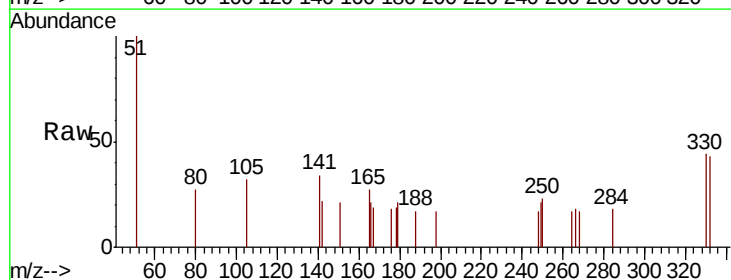
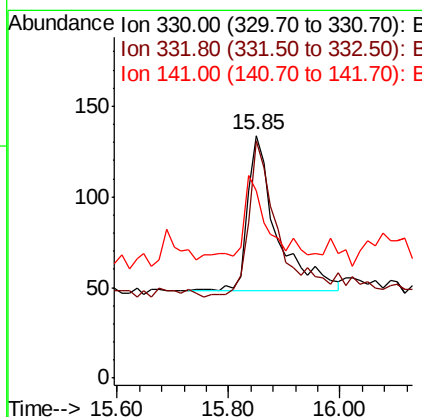
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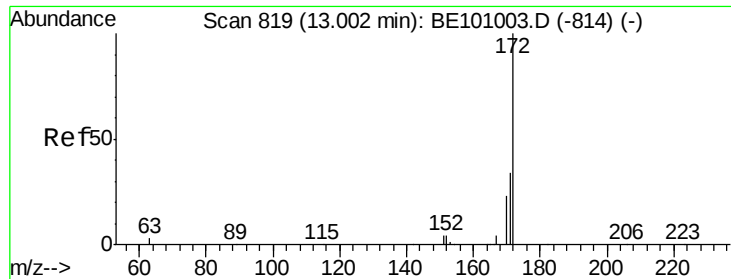
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#14
2,4,6-Tribromophenol
Concen: 0.120 ng
RT: 15.85 min Scan# 1017
Delta R.T. 0.00 min
Lab File: BE101044.D
Acq: 13 Jan 2020 18:48

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.5	78.4	117.6
141	38.1	37.0	55.4





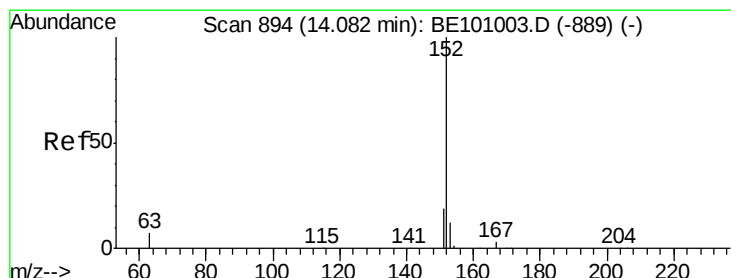
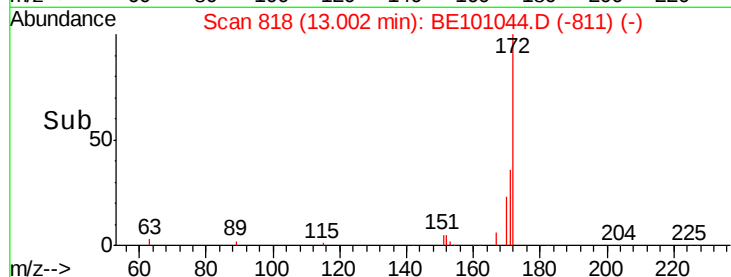
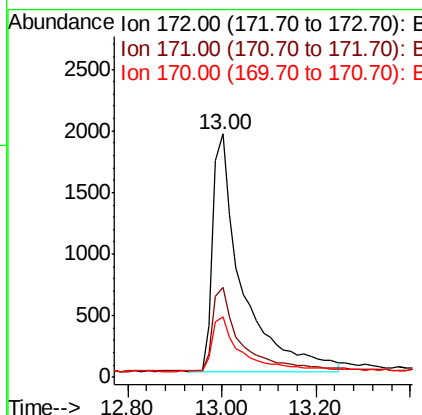
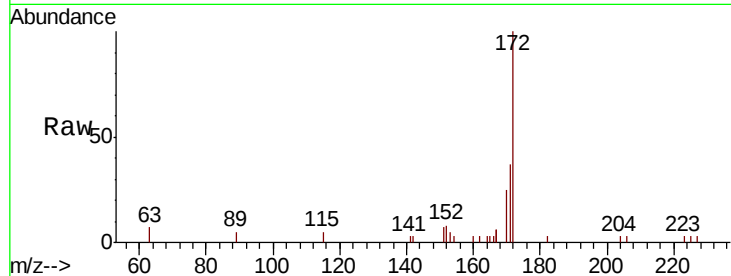
#15
2-Fluorobiphenyl
Concen: 0.234 ng
RT: 13.00 min Scan# 818
Delta R.T. -0.00 min
Lab File: BE101044.D
Acq: 13 Jan 2020 18:48

Instrument :
BNA_E
ClientSampled :
SB-1(4-6)

Tot Ion	Ratio	Lower	Upper
172	100		
171	37.2	28.2	42.2
170	24.9	18.9	28.3

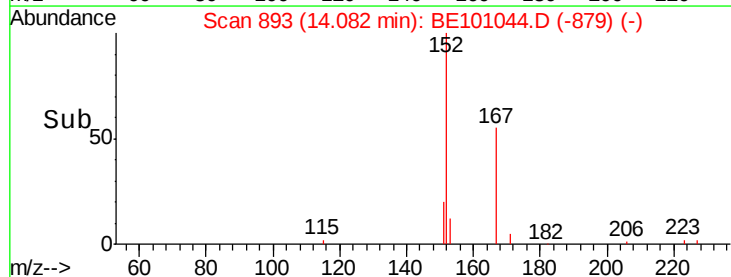
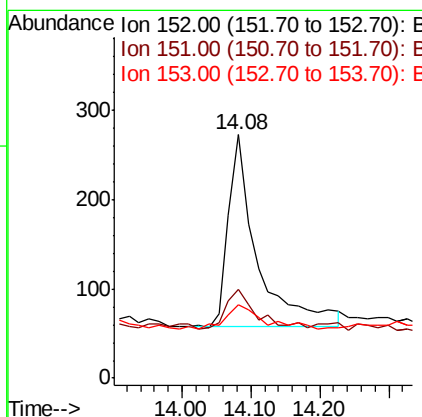
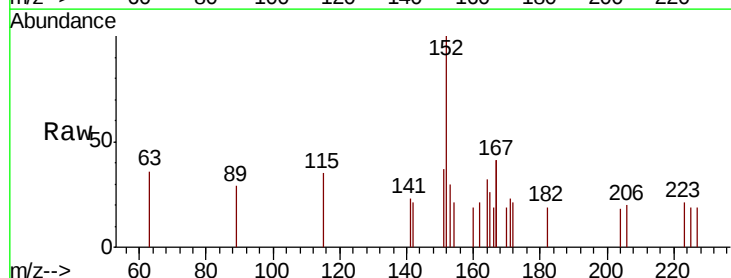
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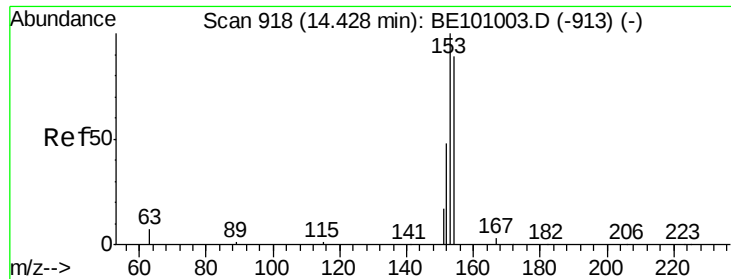
mohammad
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#16
Acenaphthylene
Concen: 0.016 ng
RT: 14.08 min Scan# 893
Delta R.T. -0.00 min
Lab File: BE101044.D
Acq: 13 Jan 2020 18:48

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.3	15.5	23.3
153	17.1	10.4	15.6#





#17

Acenaphthene

Concen: 0.008 ng

RT: 14.43 min Scan# 917

Delta R.T. -0.00 min

Lab File: BE101044.D

Acq: 13 Jan 2020 18:48

Instrument :

BNA_E

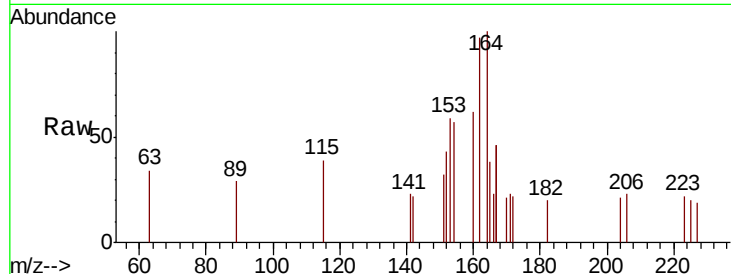
ClientSampleID :

SB-1(4-6)

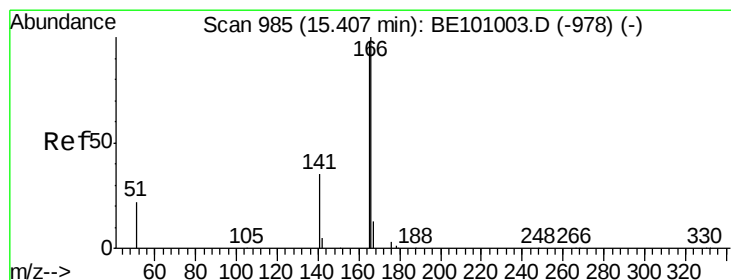
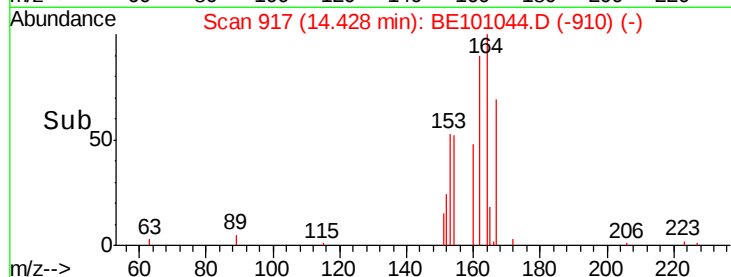
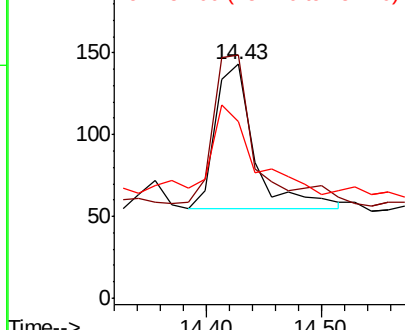
Tot Ion:	154	Resp:	207
Ion Ratio	Lower	Upper	
154	100		
153	109.2	93.6	140.4
152	71.5	46.3	69.5#

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#18

Fluorene

Concen: 0.012 ng

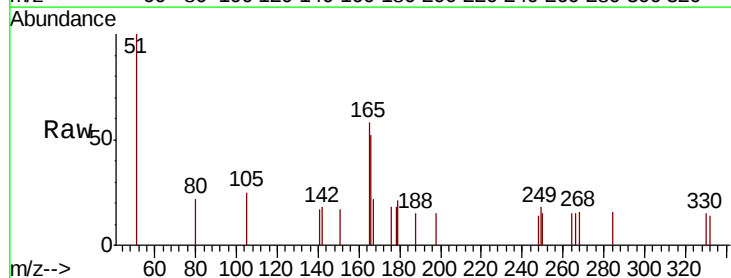
RT: 15.41 min Scan# 984

Delta R.T. 0.00 min

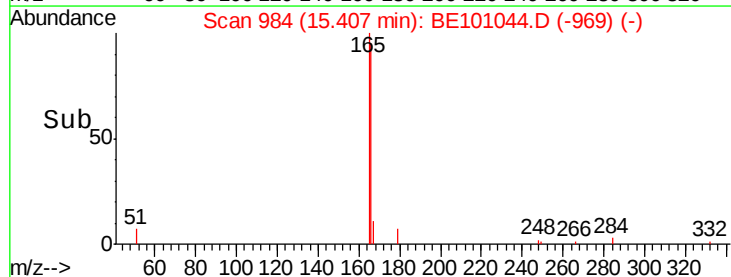
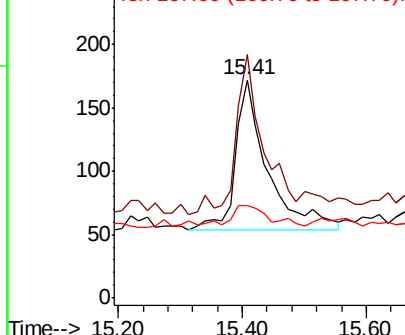
Lab File: BE101044.D

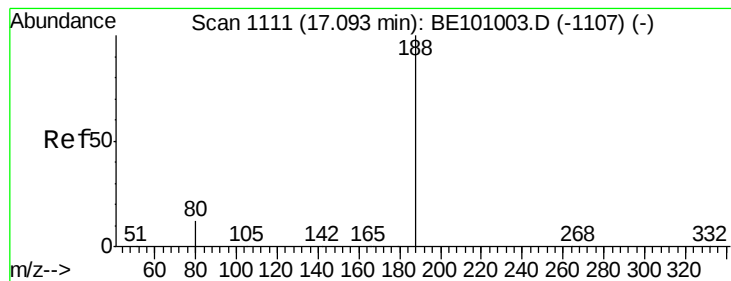
Acq: 13 Jan 2020 18:48

Tgt Ion:	166	Resp:	424
Ion Ratio	Lower	Upper	
166	100		
165	81.1	79.8	119.8
167	16.5	11.0	16.6



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.09 min Scan# 1110

Delta R.T. 0.00 min

Lab File: BE101044.D

Acq: 13 Jan 2020 18:48

Instrument :

BNA_E

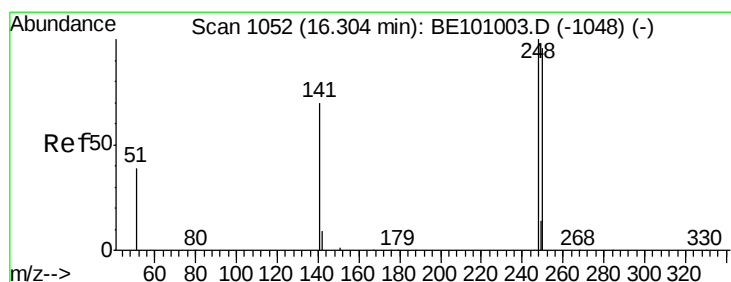
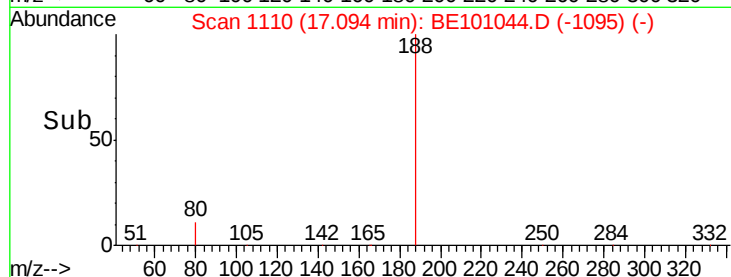
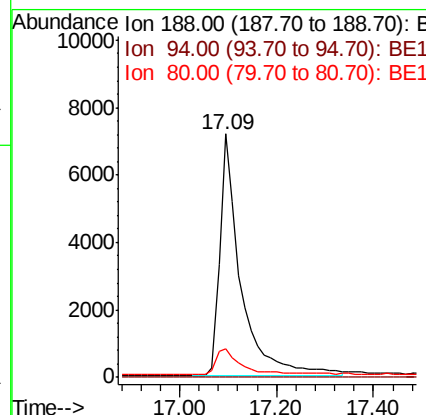
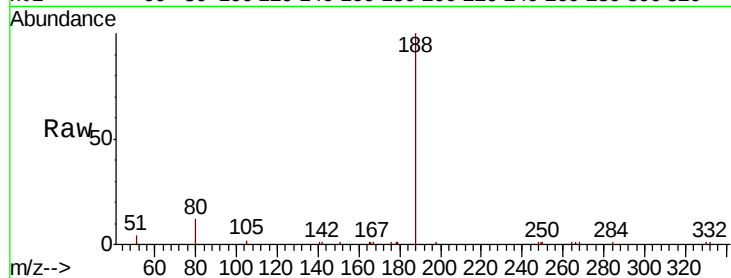
ClientSampleId :

SB-1(4-6)

Tot Ion:	188	Resp:	21403
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	11.9	10.8	16.2

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#20

4-Bromophenyl-phenylether

Concen: 0.001 ng

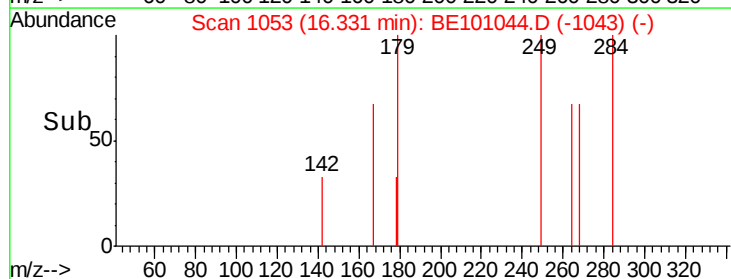
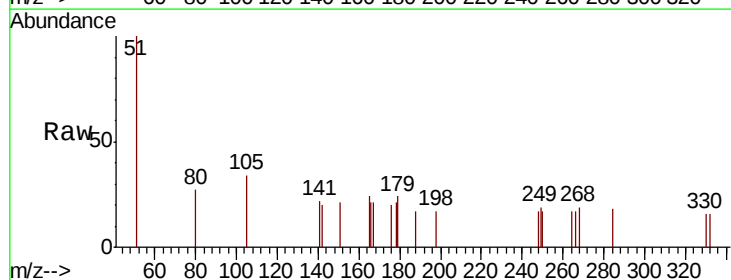
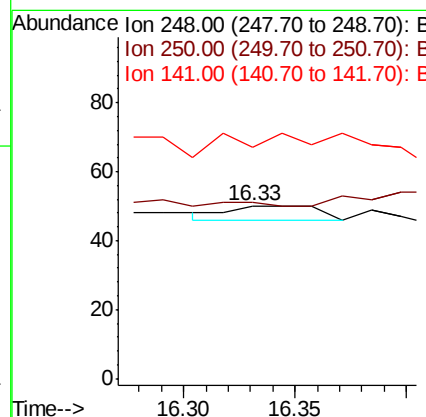
RT: 16.33 min Scan# 1053

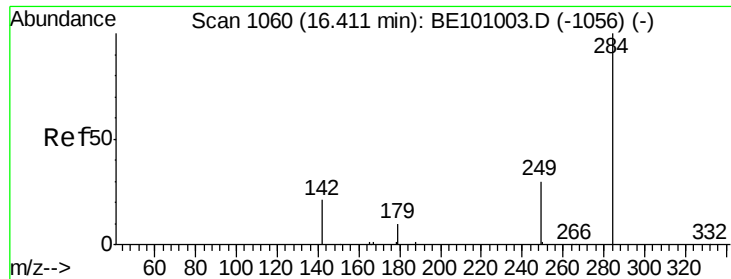
Delta R.T. 0.03 min

Lab File: BE101044.D

Acq: 13 Jan 2020 18:48

Tgt Ion:	248	Resp:	11
Ion Ratio	Lower	Upper	
248	100		
250	102.0	76.6	115.0
141	134.0	57.7	86.5#





#21

Hexachlorobenzene

Concen: 0.001 ng

RT: 16.41 min Scan# 1059

Delta R.T. 0.00 min

Lab File: BE101044.D

Acq: 13 Jan 2020 18:48

Instrument :

BNA_E

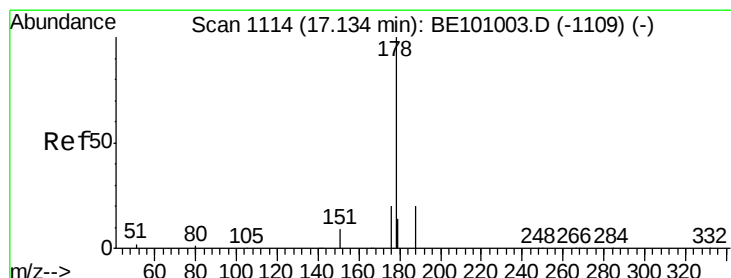
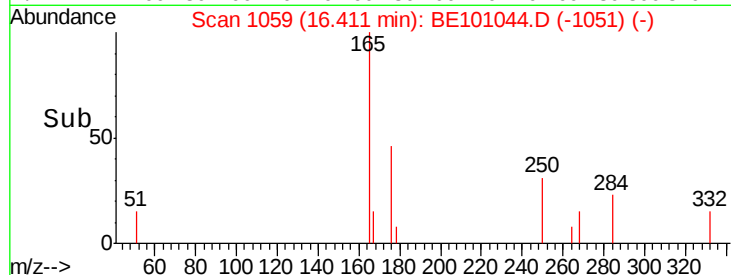
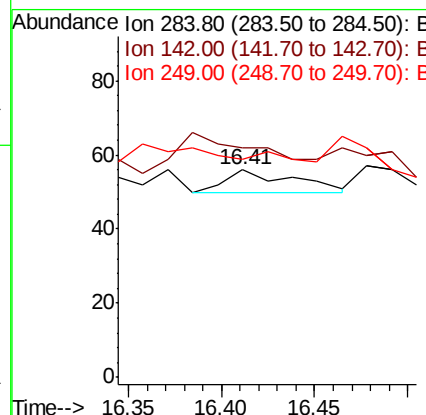
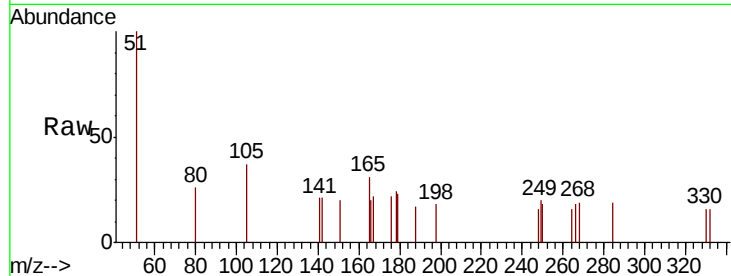
ClientSampleId :

SB-1(4-6)

Tot Ion:	284	Resp:	15
Ion Ratio	Lower	Upper	
284	100		
142	0.0	34.0	51.0#
249	0.0	28.2	42.4#

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#23

Phenanthrene

Concen: 0.032 ng

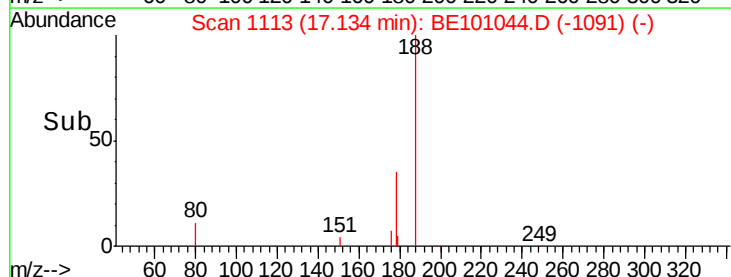
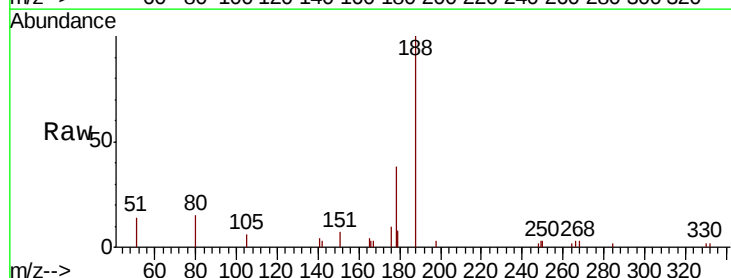
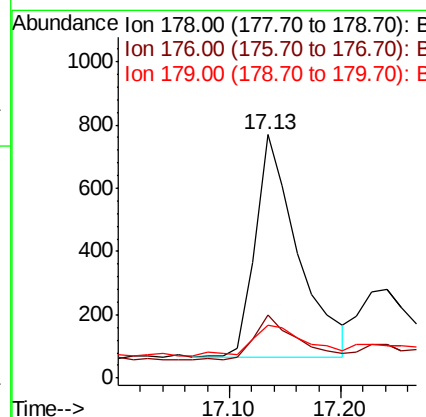
RT: 17.13 min Scan# 1113

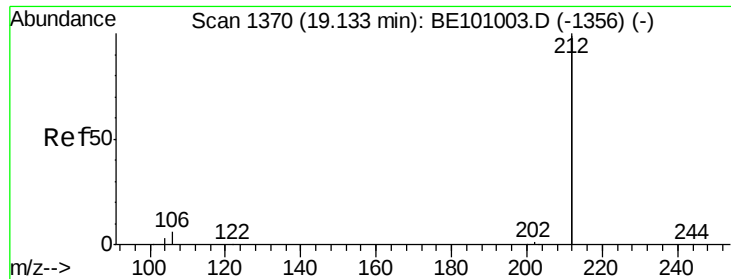
Delta R.T. 0.00 min

Lab File: BE101044.D

Acq: 13 Jan 2020 18:48

Tgt Ion:	178	Resp:	1873
Ion Ratio	Lower	Upper	
178	100		
176	20.4	15.7	23.5
179	17.5	12.0	18.0





#25

Fluoranthene-d10

Concen: 0.206 ng

RT: 19.12 min Scan# 1367

Delta R.T. -0.01 min

Lab File: BE101044.D

Acq: 13 Jan 2020 18:48

Instrument :

BNA_E

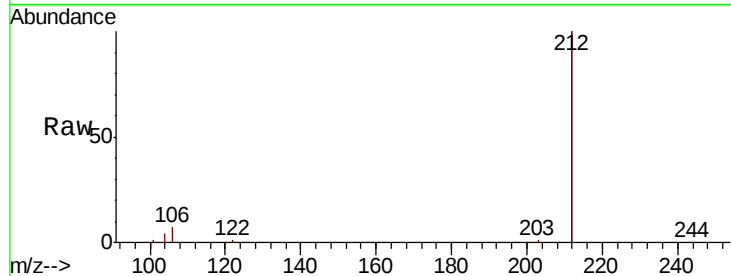
ClientSampleId :

SB-1(4-6)

Tot Ion	Ratio	Lower	Upper
212	100		
106	3.4	2.6	3.8
104	1.9	1.4	2.0

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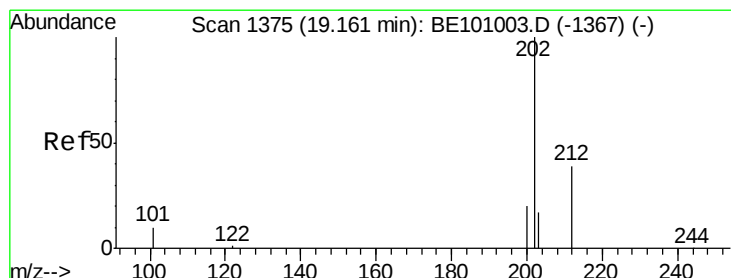
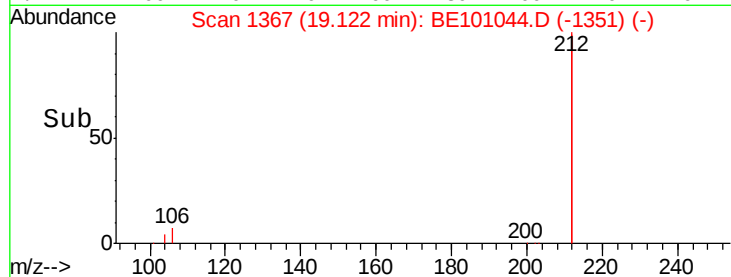
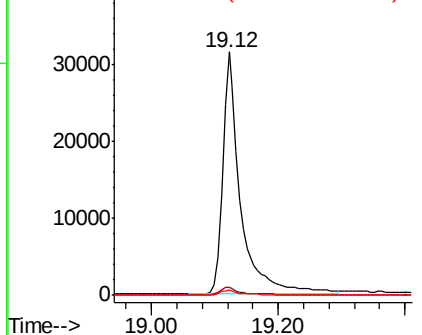


Abundance

Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.050 ng

RT: 19.15 min Scan# 1372

Delta R.T. -0.01 min

Lab File: BE101044.D

Acq: 13 Jan 2020 18:48

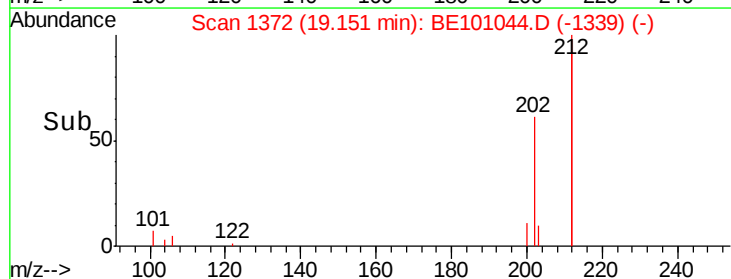
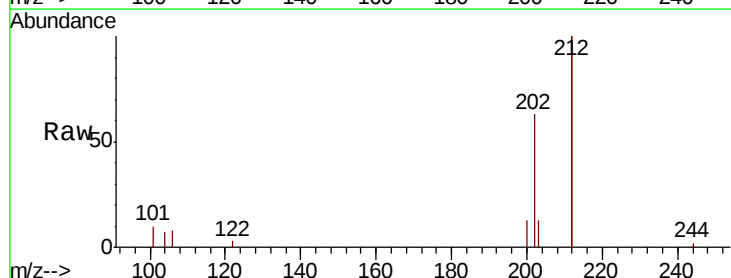
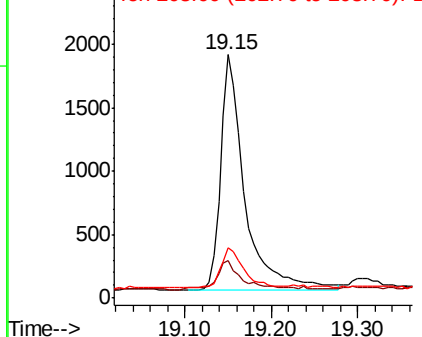
Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.3	9.6	14.4
203	15.8	13.8	20.6

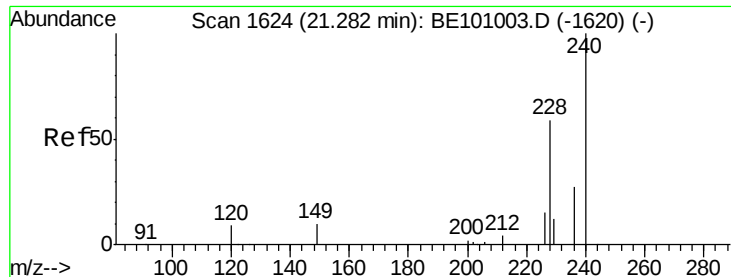
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.27 min Scan# 1621

Delta R.T. -0.01 min

Lab File: BE101044.D

Acq: 13 Jan 2020 18:48

Instrument :

BNA_E

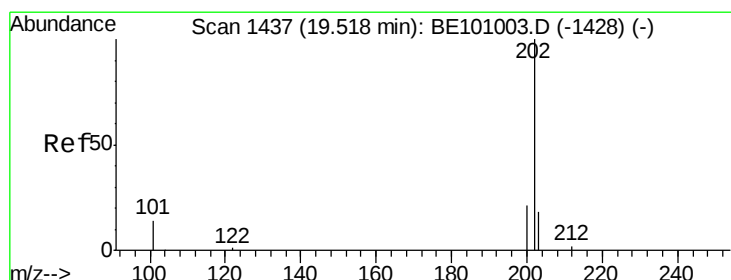
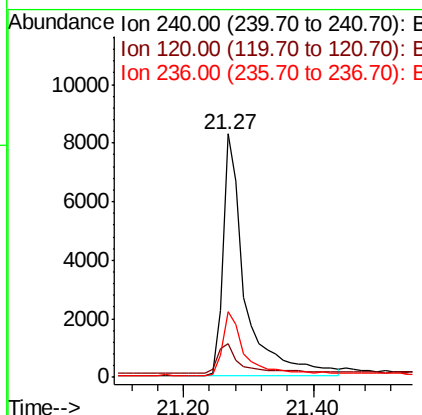
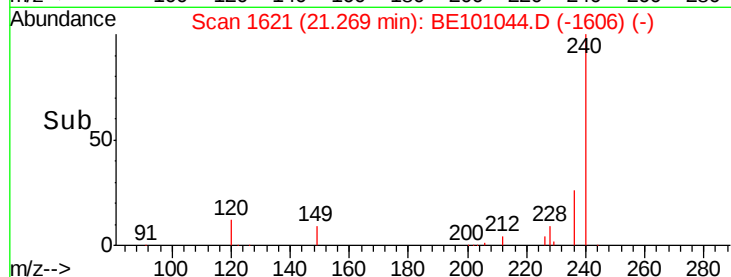
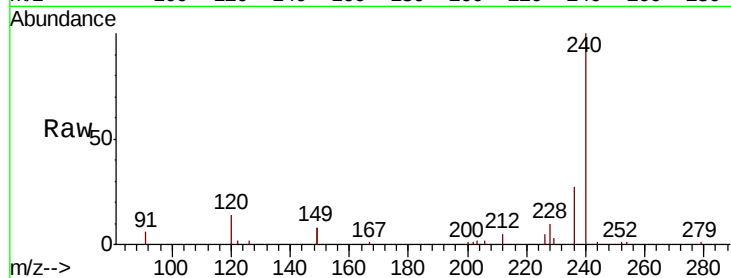
ClientSampleId :

SB-1(4-6)

Tot Ion	Ratio	Lower	Upper
240	100		
120	13.9	8.6	13.0#
236	27.0	22.2	33.4

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#28

Pyrene

Concen: 0.054 ng

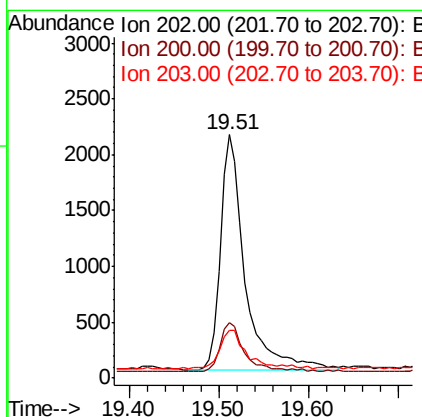
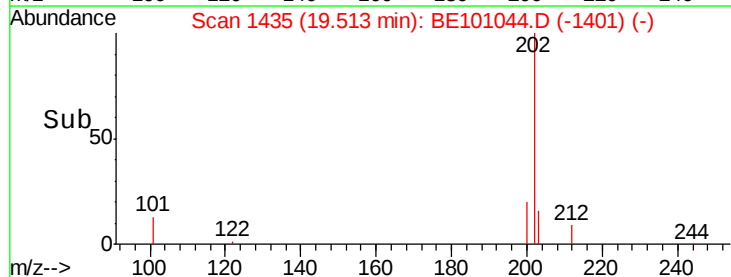
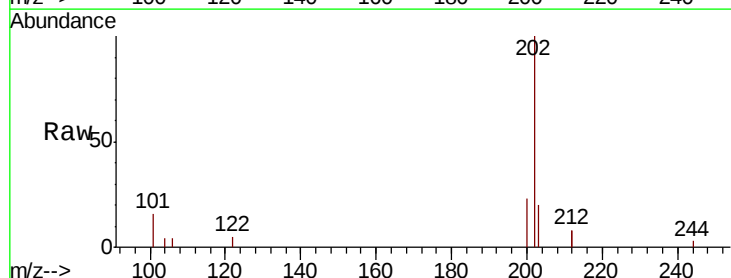
RT: 19.51 min Scan# 1435

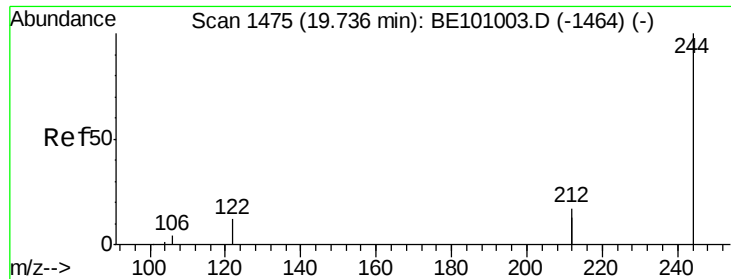
Delta R.T. -0.00 min

Lab File: BE101044.D

Acq: 13 Jan 2020 18:48

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.2	17.0	25.4
203	17.5	13.8	20.6





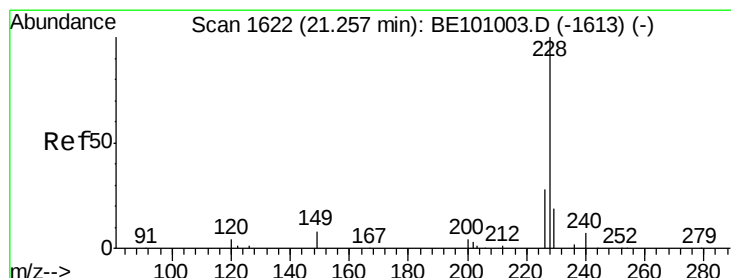
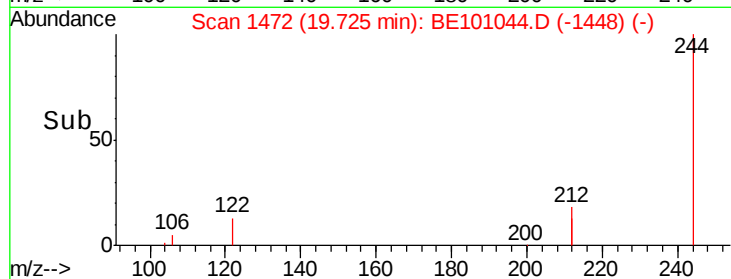
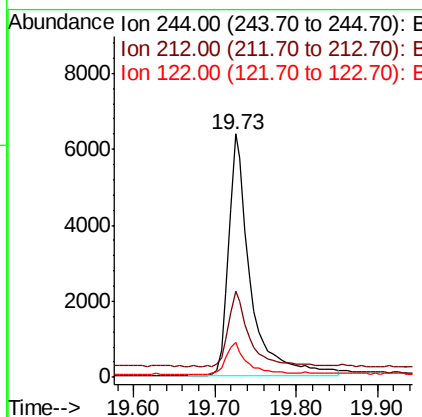
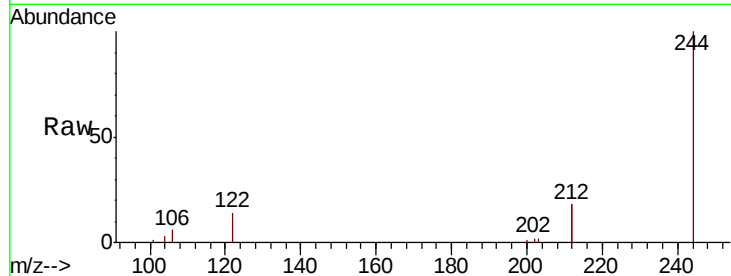
#29
 Terphenyl-d14
 Concen: 0.242 ng
 RT: 19.73 min Scan# 1472
 Delta R.T. -0.01 min
 Lab File: BE101044.D
 Acq: 13 Jan 2020 18:48

Instrument :
 BNA_E
 ClientSampleId :
 SB-1(4-6)

Tot Ion	Ratio	Lower	Upper
244	100		
212	35.3	27.2	40.8
122	14.3	9.8	14.8

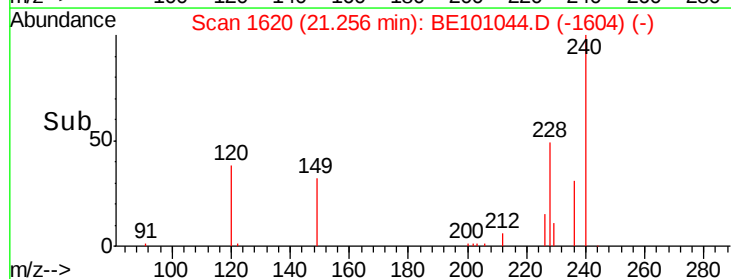
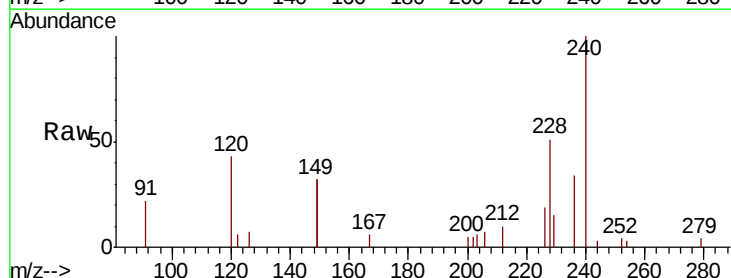
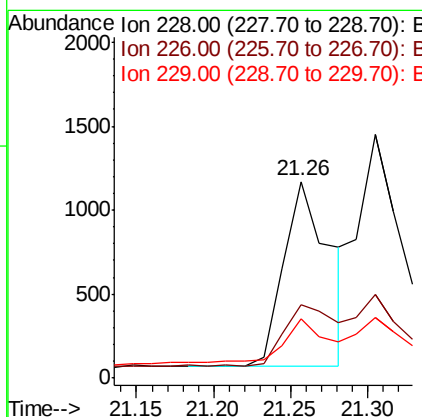
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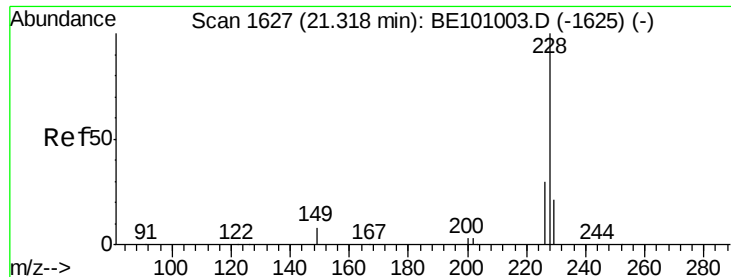
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#30
 Benzo(a)anthracene
 Concen: 0.041 ng
 RT: 21.26 min Scan# 1620
 Delta R.T. -0.00 min
 Lab File: BE101044.D
 Acq: 13 Jan 2020 18:48

Tgt Ion	Ratio	Lower	Upper
228	100		
226	37.2	22.7	34.1#
229	29.9	15.5	23.3#





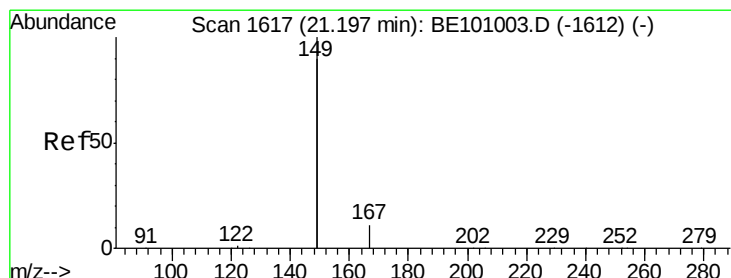
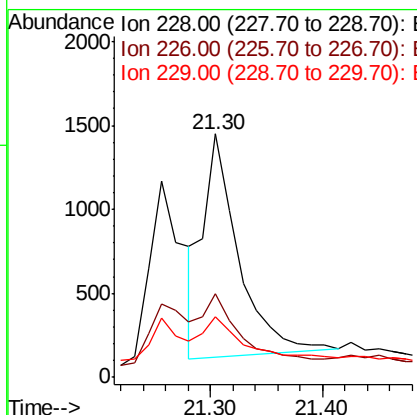
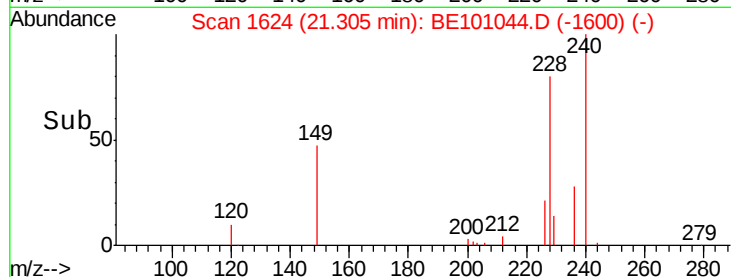
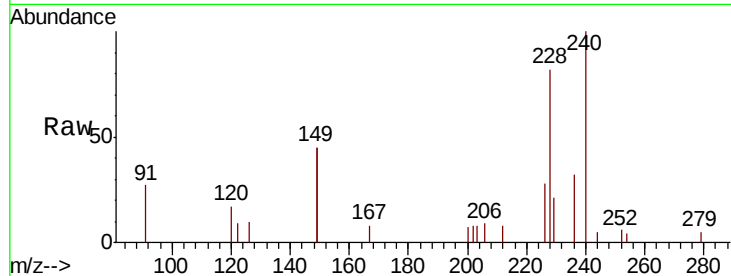
#31
 Chrysene
 Concen: 0.035 ng
 RT: 21.30 min Scan# 1624
 Delta R.T. -0.01 min
 Lab File: BE101044.D
 Acq: 13 Jan 2020 18:48

Instrument :
 BNA_E
 ClientSampleId :
 SB-1(4-6)

Tot Ion	Ratio	Lower	Upper
228	100		
226	34.1	23.5	35.3
229	25.1	16.7	25.1#

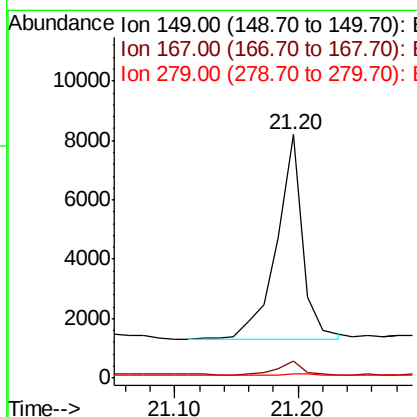
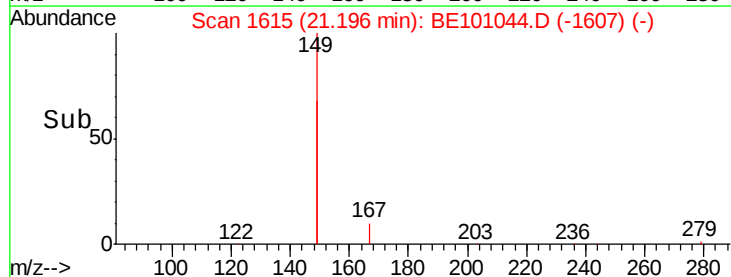
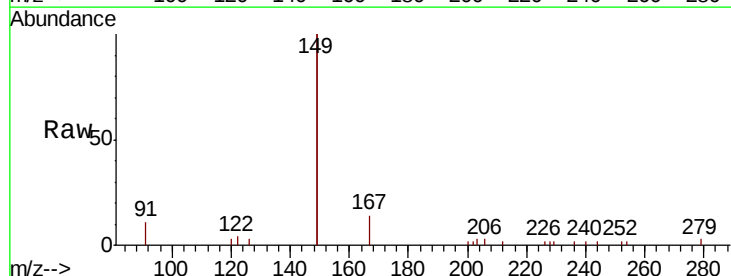
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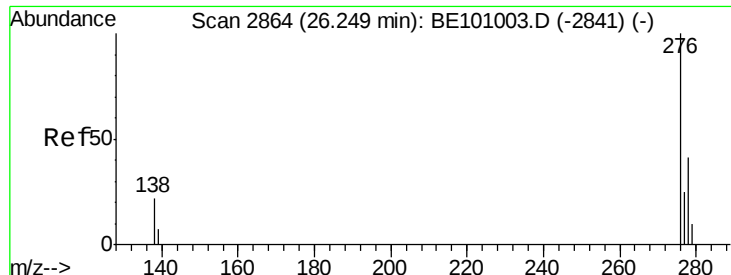
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#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.111 ng
 RT: 21.20 min Scan# 1615
 Delta R.T. -0.00 min
 Lab File: BE101044.D
 Acq: 13 Jan 2020 18:48

Tgt Ion	Ratio	Lower	Upper
149	100		
167	5.9	5.2	7.8
279	0.7	0.8	1.2#





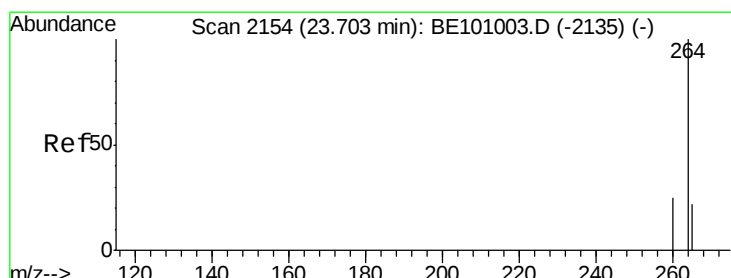
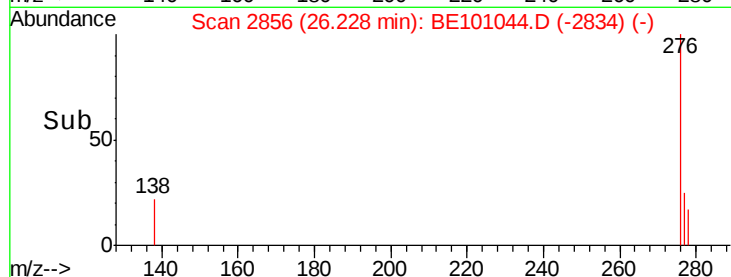
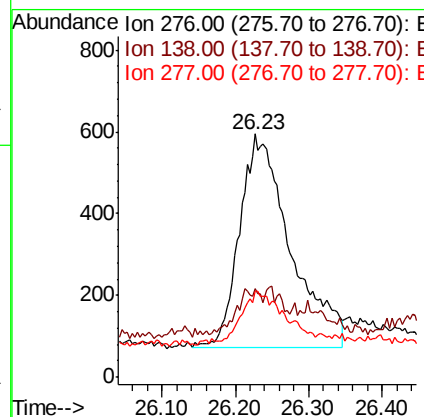
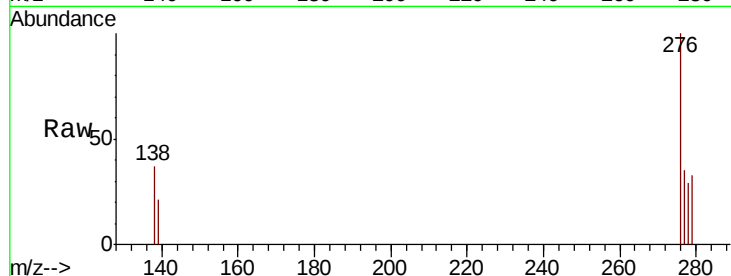
#33
Indeno(1,2,3-cd)pyrene
Concen: 0.038 ng
RT: 26.23 min Scan# 2856
Delta R.T. -0.02 min
Lab File: BE101044.D
Acq: 13 Jan 2020 18:48

Instrument :
BNA_E
ClientSampleId :
SB-1(4-6)

Tot Ion	Ratio	Lower	Upper
276	100		
138	7.3	16.1	24.1#
277	16.4	18.1	27.1#

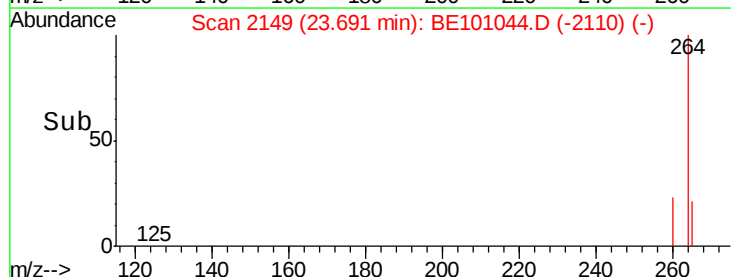
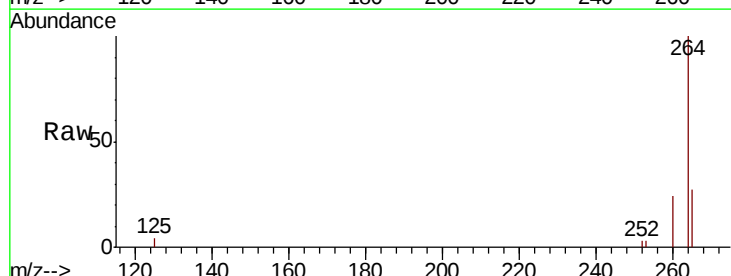
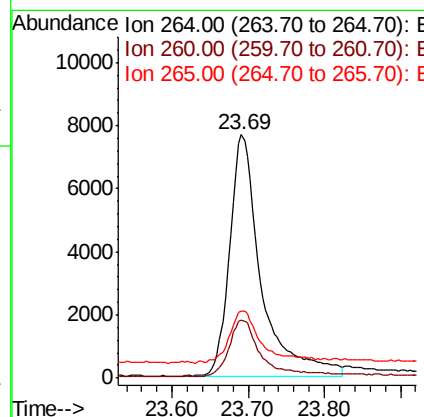
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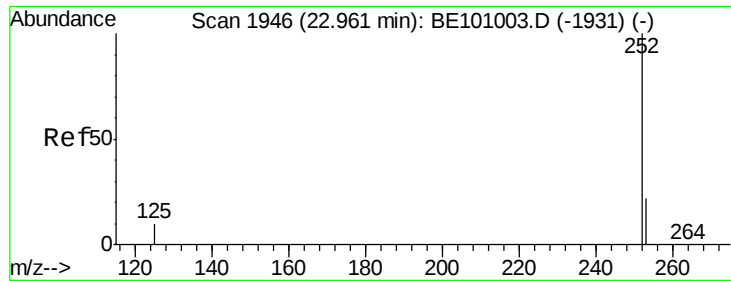
mohammad
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#34
Perylene-d12
Concen: 0.400 ng
RT: 23.69 min Scan# 2149
Delta R.T. -0.01 min
Lab File: BE101044.D
Acq: 13 Jan 2020 18:48

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	20.3	30.5
265	27.4	27.0	40.4





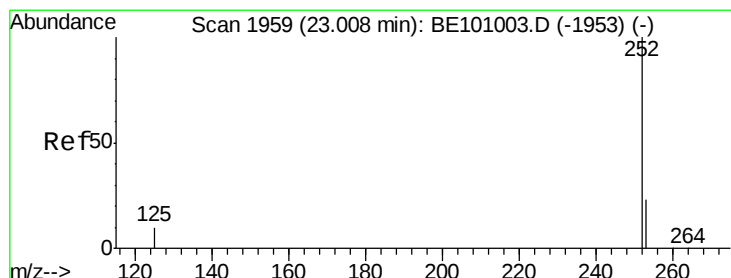
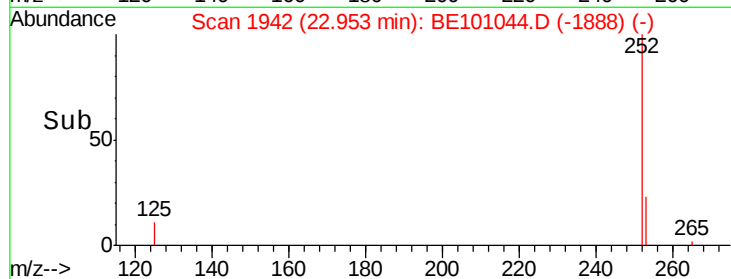
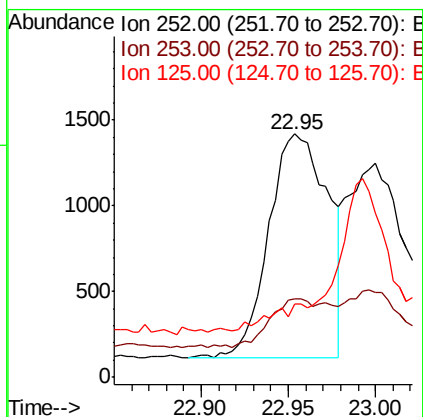
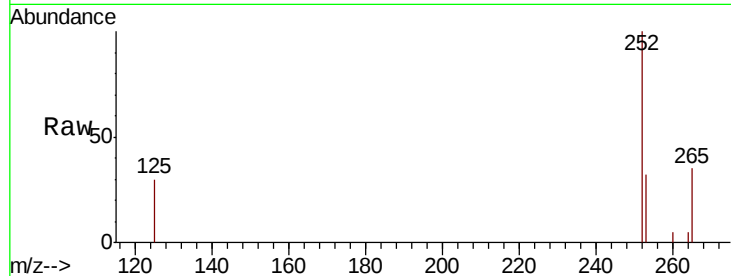
#35
Benzo(b)fluoranthene
Concen: 0.050 ng
RT: 22.95 min Scan# 1942
Delta R.T. -0.01 min
Lab File: BE101044.D
Acq: 13 Jan 2020 18:48

Instrument :
BNA_E
ClientSampleId :
SB-1(4-6)

Tot Ion	Ratio	Lower	Upper
252	100		
253	32.4	18.5	27.7#
125	29.9	9.5	14.3#

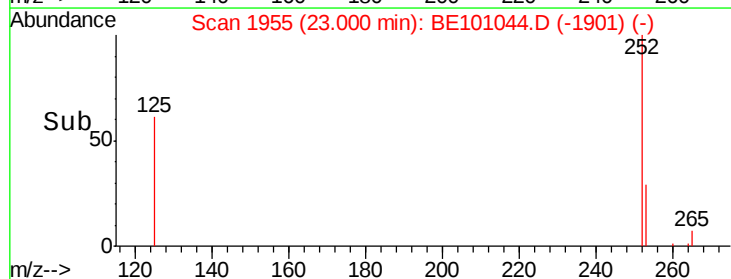
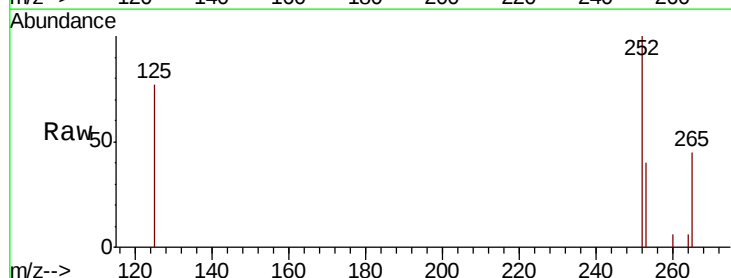
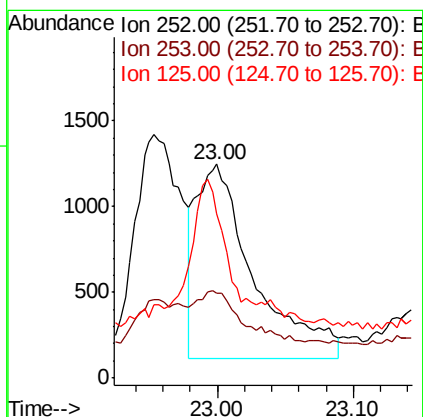
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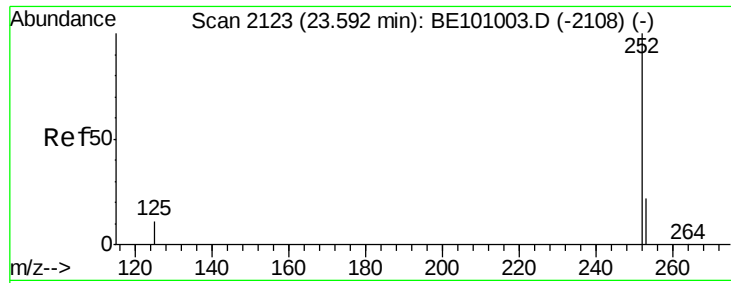
mohammad
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#36
Benzo(k)fluoranthene
Concen: 0.038 ng m
RT: 23.00 min Scan# 1955
Delta R.T. -0.01 min
Lab File: BE101044.D
Acq: 13 Jan 2020 18:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	39.9	18.9	28.3#
125	76.9	10.1	15.1#





#37

Benzo(a)pyrene

Concen: 0.028 ng

RT: 23.58 min Scan# 2118

Delta R.T. -0.01 min

Lab File: BE101044.D

Acq: 13 Jan 2020 18:48

Instrument :

BNA_E

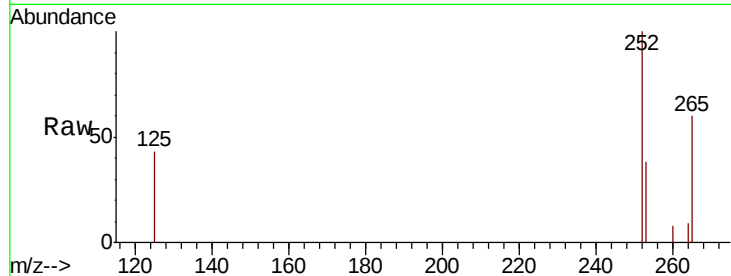
ClientSampled :

SB-1(4-6)

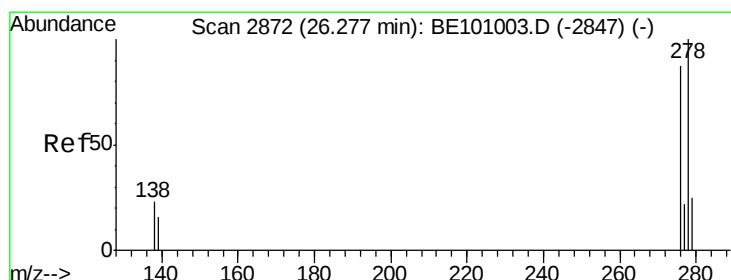
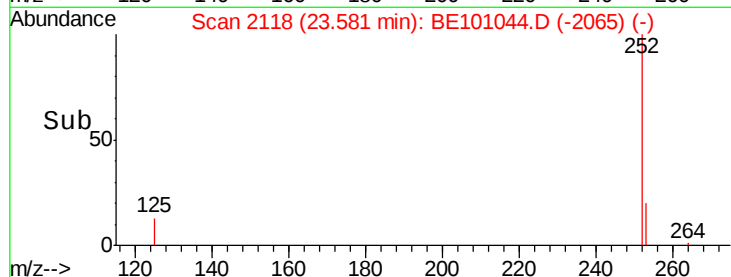
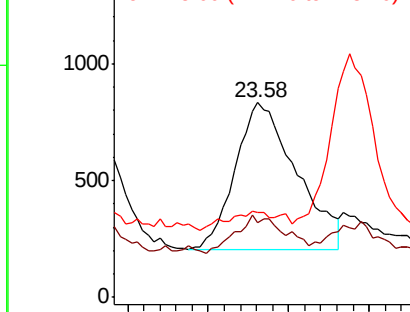
Tot Ion:	252	Resp:	1675
Ion Ratio	Lower	Upper	
252	100		
253	38.2	19.4	29.2#
125	43.3	11.8	17.6#

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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#38

Dibenzo(a,h)anthracene

Concen: 0.015 ng

RT: 26.26 min Scan# 2865

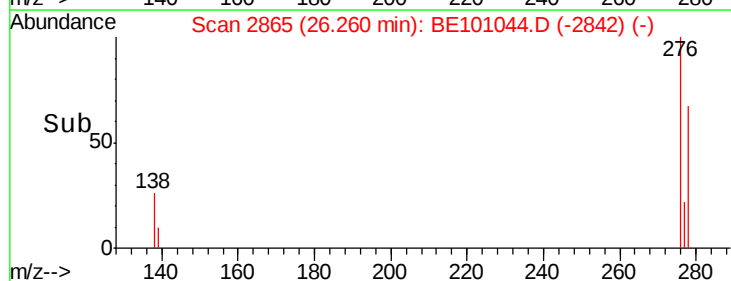
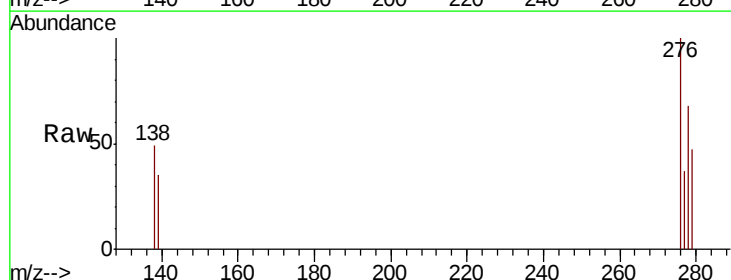
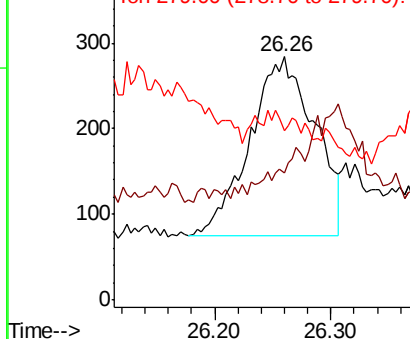
Delta R.T. -0.02 min

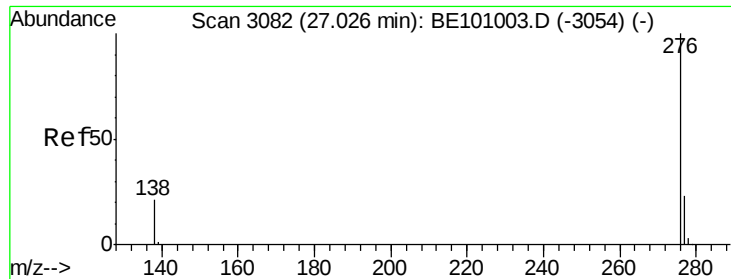
Lab File: BE101044.D

Acq: 13 Jan 2020 18:48

Tgt Ion:	278	Resp:	811
Ion Ratio	Lower	Upper	
278	100		
139	52.1	15.0	22.4#
279	69.4	22.6	33.8#

Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.045 ng/mL

RT: 27.01 min Scan# 3074

Delta R.T. -0.02 min

Lab File: BE101044.D

Acq: 13 Jan 2020 18:48

Instrument :

BNA_E

ClientSampleId :

SB-1(4-6)

Tot Ion:	276	Resp:	3004
Ion Ratio	Lower	Upper	
276	100		
277	32.0	19.4	29.2#
138	31.7	17.9	26.9#

Manual Integrations
APPROVED

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