

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE062819\
 Data File : BE100251.D
 Acq On : 29 Jun 2019 1:05
 Operator : JU/SJ
 Sample : K3445-02
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-001-SW079-061719

Manual Integrations
 APPROVED

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 7/1/2019 3:07:47 PM

Quant Time: Jun 29 03:43:13 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE062819.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Sat Jun 29 00:22:29 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.65	152	780	0.40	ng	0.00
7) Naphthalene-d8	10.43	136	2765	0.40	ng	-0.01
13) Acenaphthene-d10	14.31	164	2162	0.40	ng	0.00
19) Phenanthrene-d10	17.05	188	6651	0.40	ng	0.00
27) Chrysene-d12	21.25	240	8956	0.40	ng	0.00
34) Perylene-d12	23.67	264	10772	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.22	112	624	0.31	ng	0.00
5) Phenol-d6	6.83	99	818	0.31	ng	-0.01
8) Nitrobenzene-d5	8.81	82	884	0.32	ng	-0.01
11) 2-Methylnaphthalene-d10	12.04	152	1935	0.37	ng	-0.01
14) 2,4,6-Tribromophenol	15.81	330	534	0.35	ng	-0.01
15) 2-Fluorobiphenyl	12.93	172	2683	0.32	ng	-0.01
25) Fluoranthene-d10	19.10	212	34447	0.36	ng	0.00
29) Terphenyl-d14	19.70	244	6132	0.33	ng	0.00

Target Compounds

						Qvalue
9) Naphthalene	10.48	128	1802	0.059	ng	# 91
12) 2-Methylnaphthalene	12.11	142	339	0.063	ng	# 88
16) Acenaphthylene	14.04	152	3362	0.324	ng	98
17) Acenaphthene	14.38	154	213	0.036	ng	# 86
18) Fluorene	15.35	166	648	0.075	ng	# 68
23) Phenanthrene	17.09	178	21367	1.325	ng	99
24) Anthracene	17.19	178	3649	0.251	ng	# 94
26) Fluoranthene	19.13	202	53836	2.097	ng	99
28) Pyrene	19.49	202	68428	2.886	ng	97
30) Benzo(a)anthracene	21.22	228	33094	1.124	ng	95
31) Chrysene	21.28	228	43447	1.469	ng	97
32) Bis(2-ethylhexyl)phthalate	21.15	149	25167	0.547	ng	98
33) Indeno(1,2,3-cd)pyrene	26.22	276	25528	0.653	ng	98
35) Benzo(b)fluoranthene	22.93	252	44293	1.517	ng	99
36) Benzo(k)fluoranthene	22.97	252	17035m	0.523	ng	
37) Benzo(a)pyrene	23.56	252	33427	1.142	ng	# 98
38) Dibenzo(a,h)anthracene	26.23	278	6655	0.218	ng	# 80
39) Benzo(a,h,i)perylene	27.02	276	28021	0.892	ng	99

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

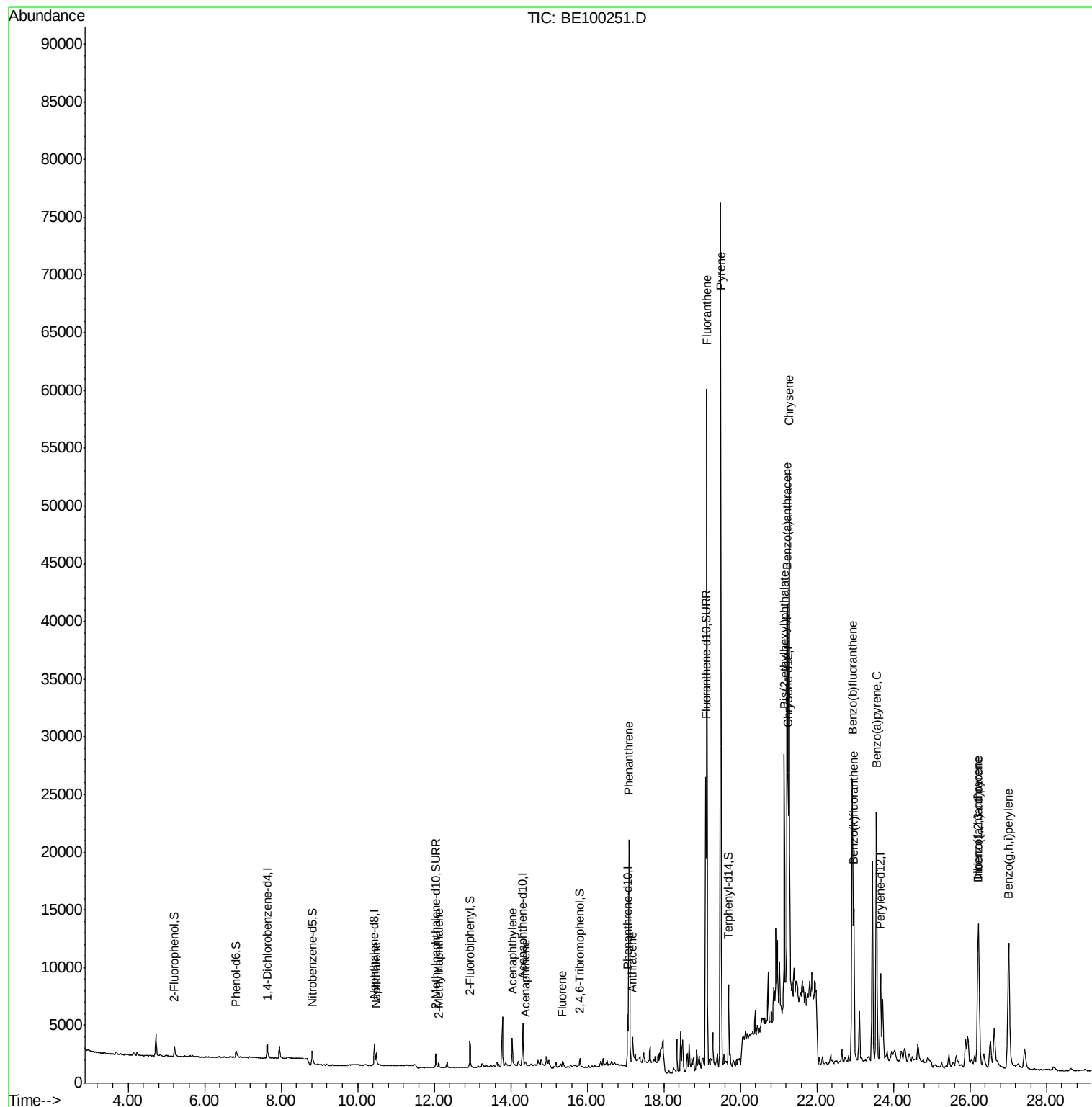
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE062819\
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#1

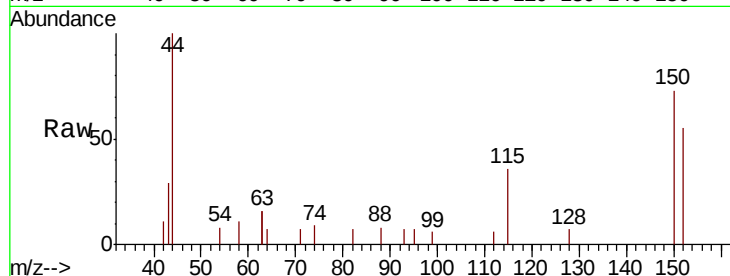
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.65 min Scan# 415
Delta R.T. 0.00 min
Lab File: BE100251.D
Acq: 29 Jun 2019 1:05

Instrument :
BNA_E
ClientSampleId :
EXT-001-SW079-061719

Tot Ion	Ratio	Lower	Upper
152	100		
150	132.0	114.5	171.7
115	65.0	57.1	85.7

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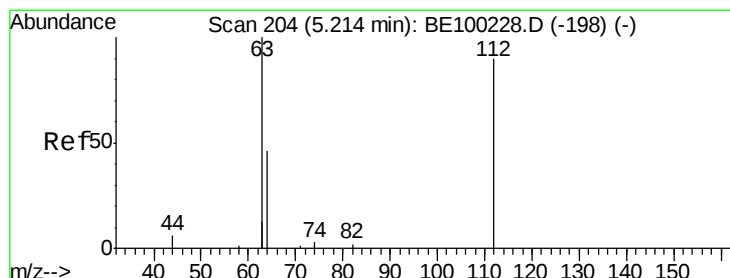
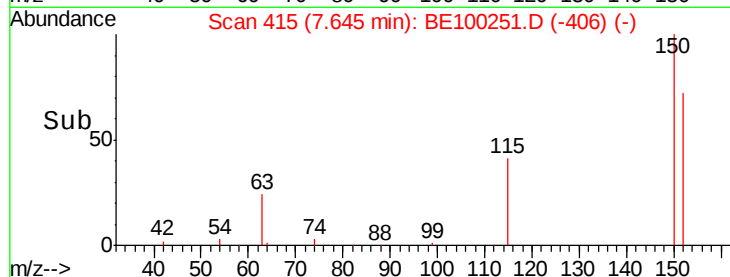
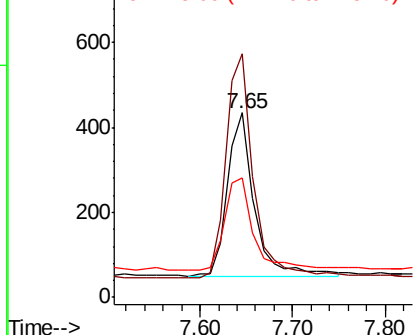


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

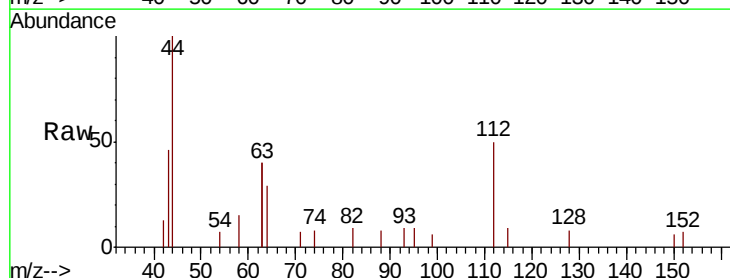
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.314 ng
RT: 5.22 min Scan# 204
Delta R.T. 0.00 min
Lab File: BE100251.D
Acq: 29 Jun 2019 1:05

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.9	39.4	59.0
63	147.9	104.5	156.7

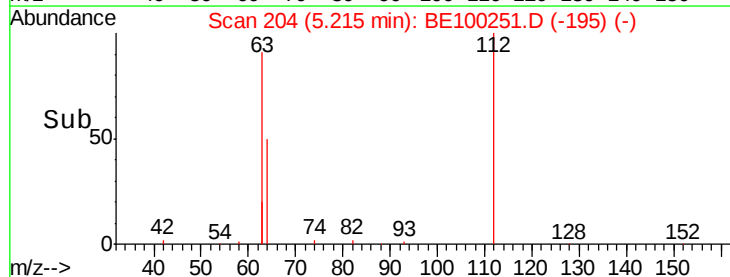
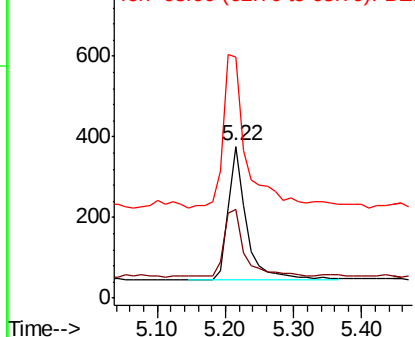


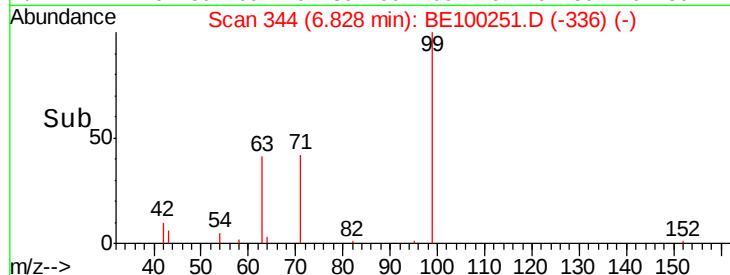
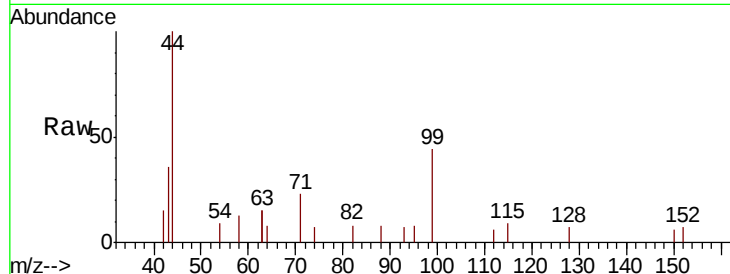
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE1

Ion 63.00 (62.70 to 63.70): BE1





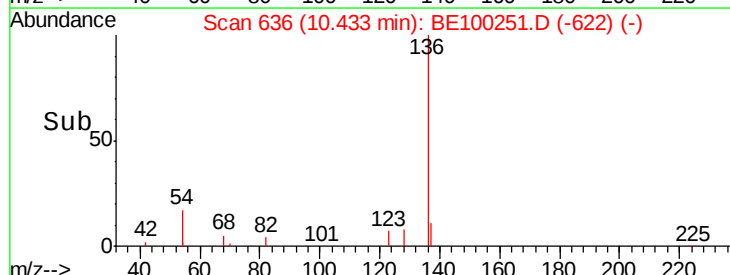
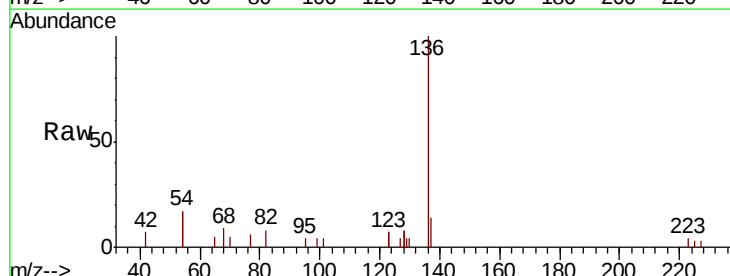
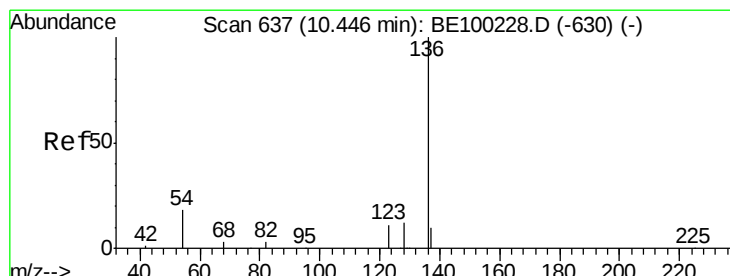
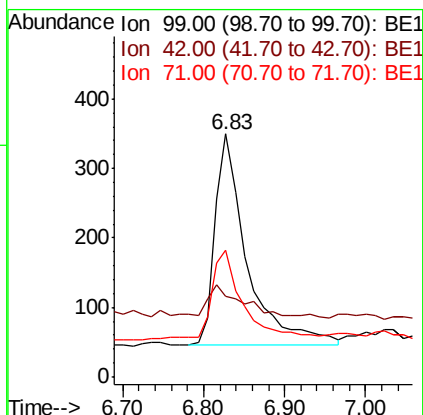
#5
Phenol-d6
Concen: 0.313 ng
RT: 6.83 min Scan# 344
Delta R.T. -0.01 min
Lab File: BE100251.D
Acq: 29 Jun 2019 1:05

Tot Ion	Ion	Ratio	Resp	Lower	Upper
818	99	100			
	42	15.4		11.2	16.8
	71	38.4		37.2	55.8

Instrument :
BNA_E
ClientSampleId :
EXT-001-SW079-061719

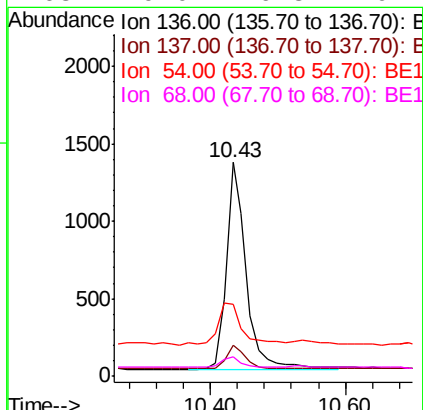
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#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.43 min Scan# 636
Delta R.T. -0.01 min
Lab File: BE100251.D
Acq: 29 Jun 2019 1:05

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
2765	136	100			
	137	14.1		11.8	17.8
	54	33.8		27.7	41.5
	68	9.0		6.8	10.2





#8

Nitrobenzene-d5

Concen: 0.322 ng

RT: 8.81 min Scan# 511

Delta R.T. -0.01 min

Lab File: BE100251.D

Acq: 29 Jun 2019 1:05

Instrument :

BNA_E

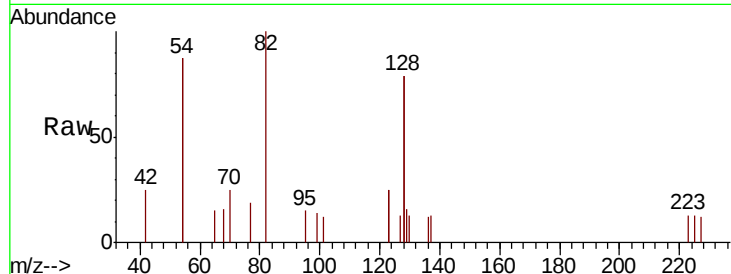
ClientSampleId :

EXT-001-SW079-061719

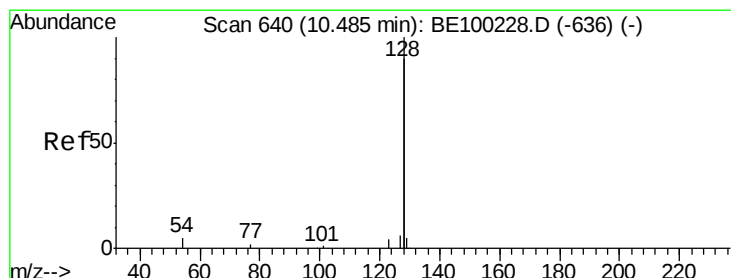
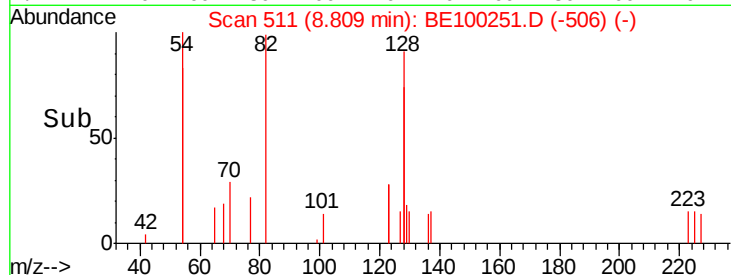
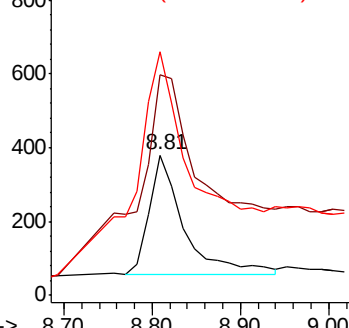
Tot Ion:	82	Resp:	884
Ion	Ratio	Lower	Upper
82	100		
128	157.4	140.9	211.3
54	173.7	146.2	219.2

Manual Integrations
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Abundance Ion 82.00 (81.70 to 82.70): BE1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BE1



#9

Naphthalene

Concen: 0.059 ng

RT: 10.48 min Scan# 640

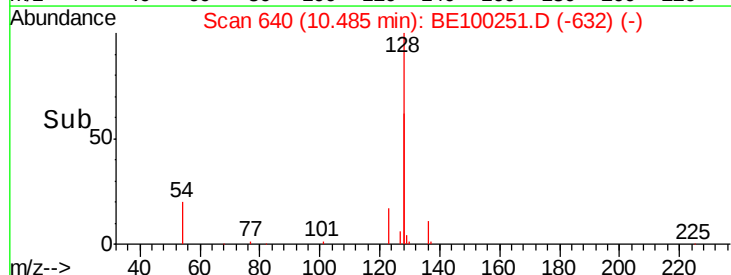
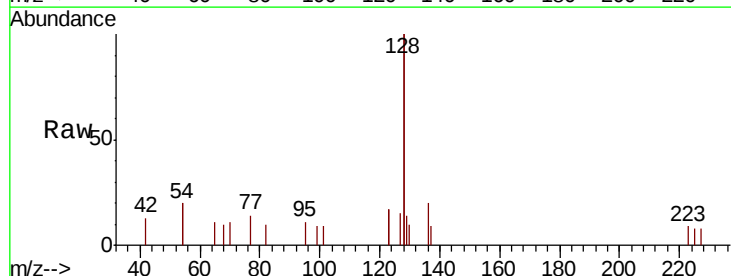
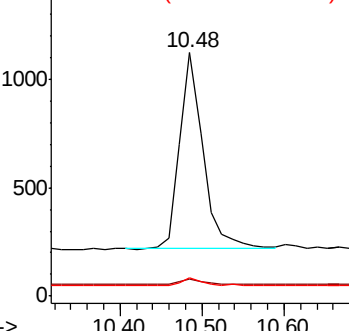
Delta R.T. 0.00 min

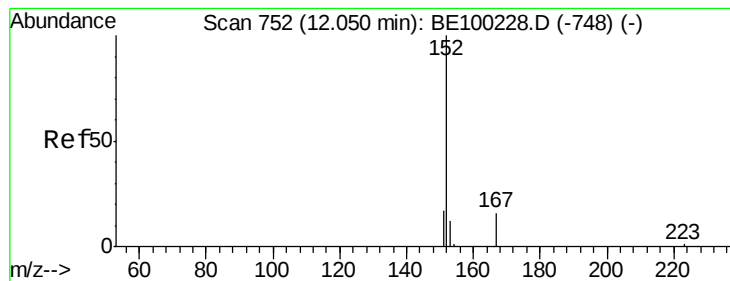
Lab File: BE100251.D

Acq: 29 Jun 2019 1:05

Tgt Ion:	128	Resp:	1802
Ion	Ratio	Lower	Upper
128	100		
129	6.9	3.0	4.6#
127	7.5	3.5	5.3#

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





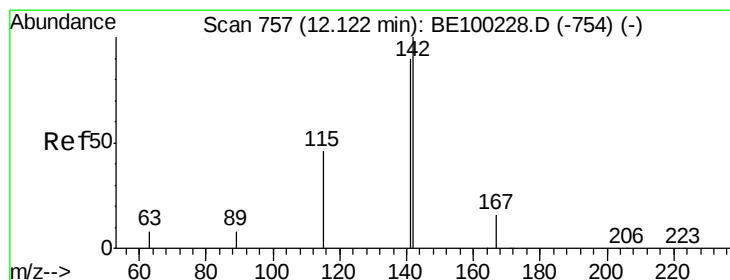
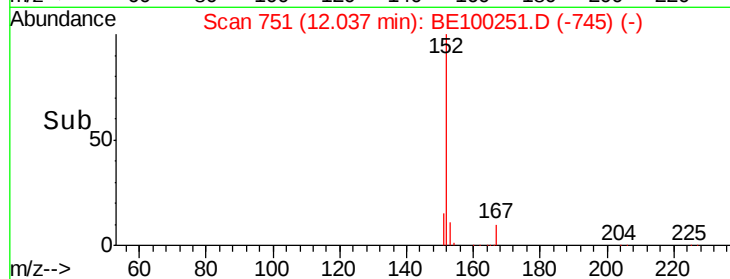
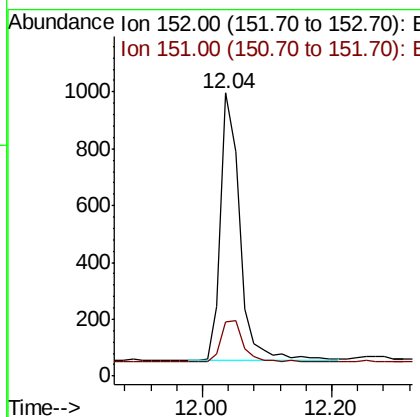
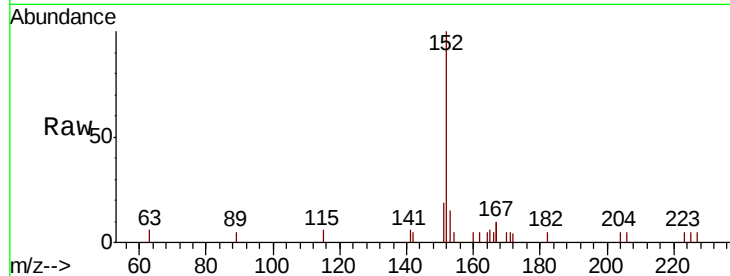
#11
2-Methylnaphthalene-d10
Concen: 0.372 ng
RT: 12.04 min Scan# 751
Delta R.T. -0.01 min
Lab File: BE100251.D
Acq: 29 Jun 2019 1:05

Instrument :
BNA_E
ClientSampleId :
EXT-001-SW079-061719

Tot Ion	Ratio	Lower	Upper
152	100		
151	18.6	15.1	22.7

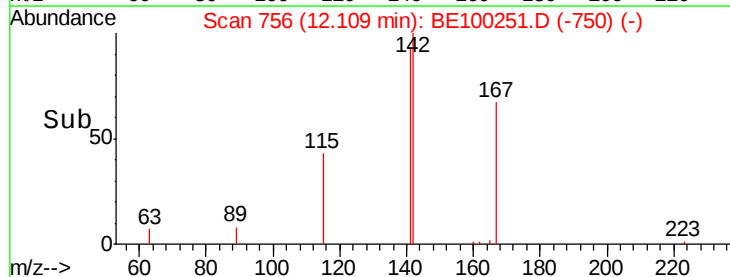
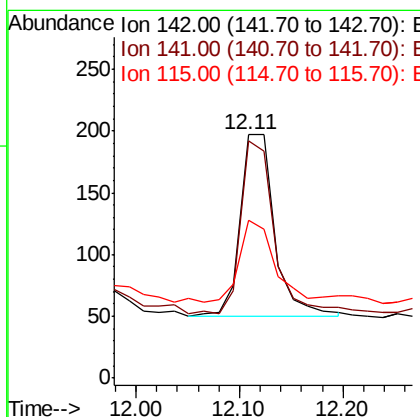
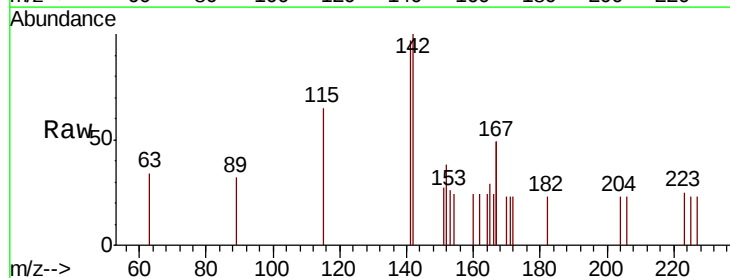
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#12
2-Methylnaphthalene
Concen: 0.063 ng
RT: 12.11 min Scan# 756
Delta R.T. -0.01 min
Lab File: BE100251.D
Acq: 29 Jun 2019 1:05

Tgt Ion	Ratio	Lower	Upper
142	100		
141	97.5	72.4	108.6
115	65.0	40.4	60.6





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.31 min Scan# 909

Delta R.T. 0.00 min

Lab File: BE100251.D

Acq: 29 Jun 2019 1:05

Instrument :

BNA_E

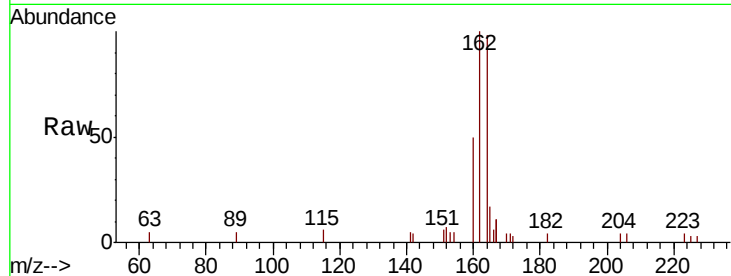
ClientSampleId :

EXT-001-SW079-061719

Tot Ion:	164	Resp:	2162
Ion	Ratio	Lower	Upper
164	100		
162	101.6	83.4	125.0
160	50.5	45.0	67.6

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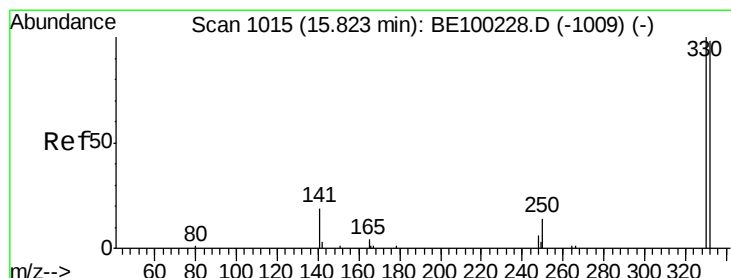
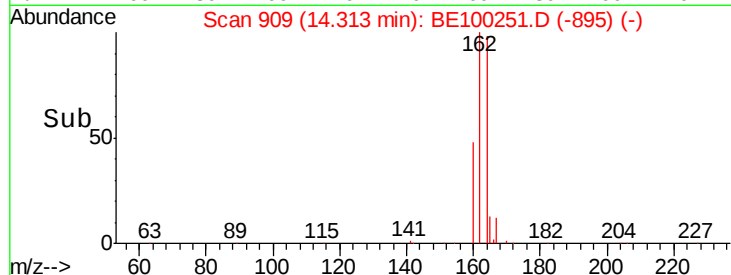
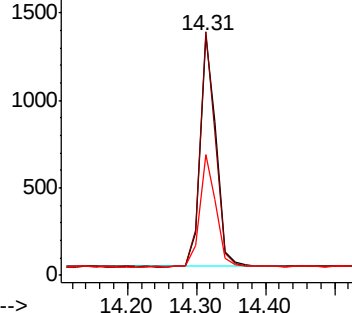


Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 0.353 ng

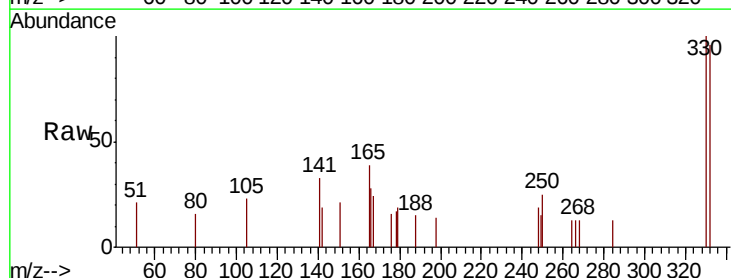
RT: 15.81 min Scan# 1014

Delta R.T. -0.01 min

Lab File: BE100251.D

Acq: 29 Jun 2019 1:05

Tgt Ion:	330	Resp:	534
Ion	Ratio	Lower	Upper
330	100		
332	93.6	77.0	115.4
141	37.1	22.0	33.0#

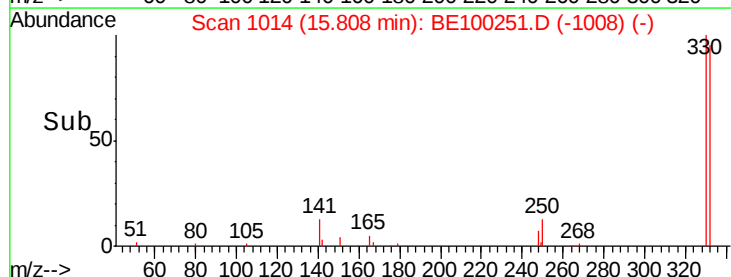
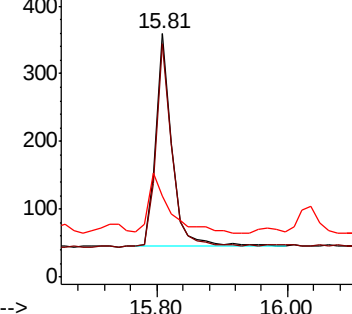


Abundance

Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





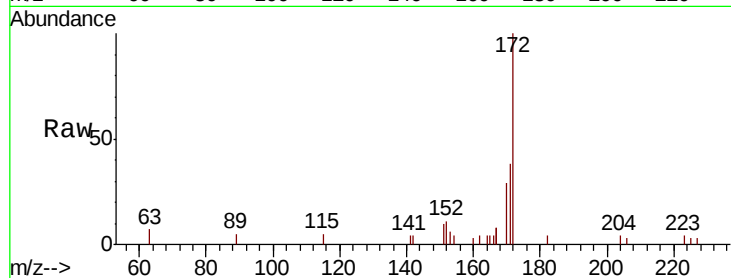
#15
2-Fluorobiphenyl
Concen: 0.318 ng
RT: 12.93 min Scan# 813
Delta R.T. -0.01 min
Lab File: BE100251.D
Acq: 29 Jun 2019 1:05

Instrument :
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ClientSampleId :
EXT-001-SW079-061719

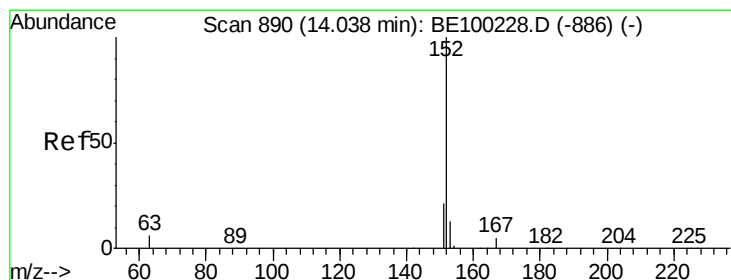
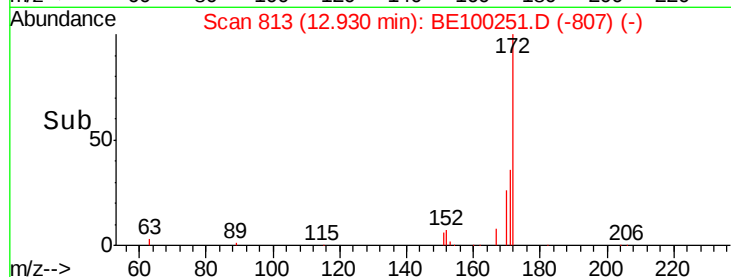
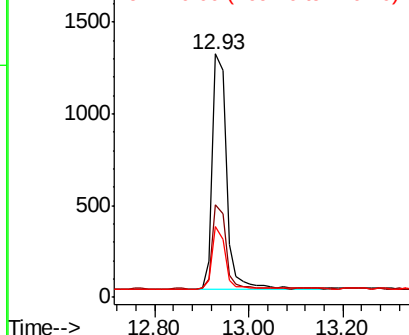
Tot Ion	Ratio	Lower	Upper
172	100		
171	38.1	31.9	47.9
170	28.9	22.2	33.2

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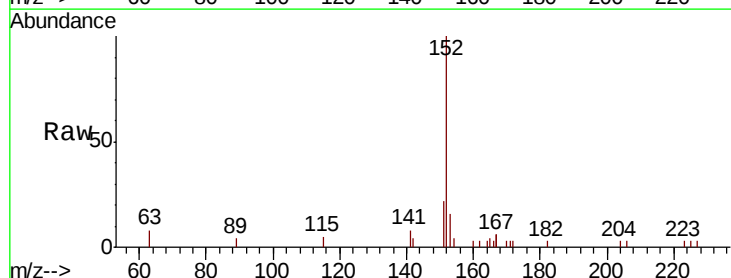


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

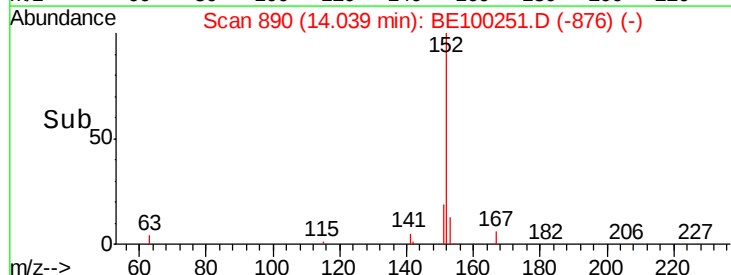
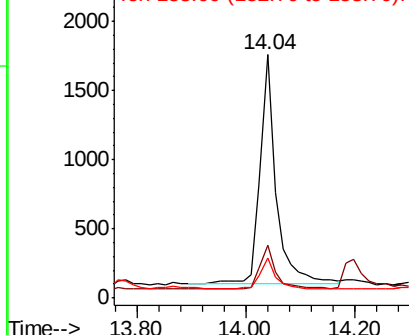


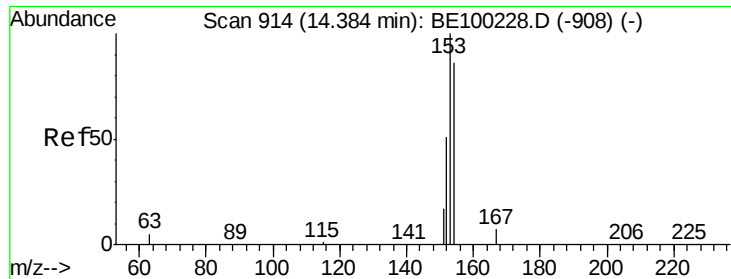
#16
Acenaphthylene
Concen: 0.324 ng
RT: 14.04 min Scan# 890
Delta R.T. 0.00 min
Lab File: BE100251.D
Acq: 29 Jun 2019 1:05

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.2	16.6	25.0
153	13.5	10.5	15.7



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





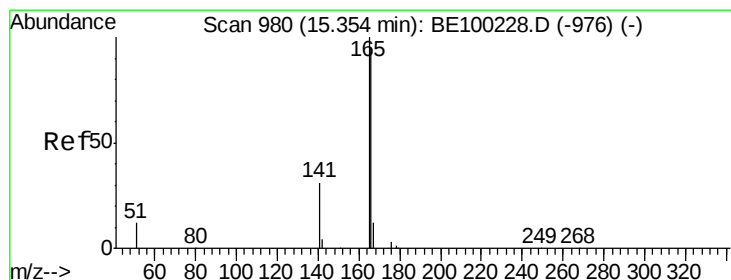
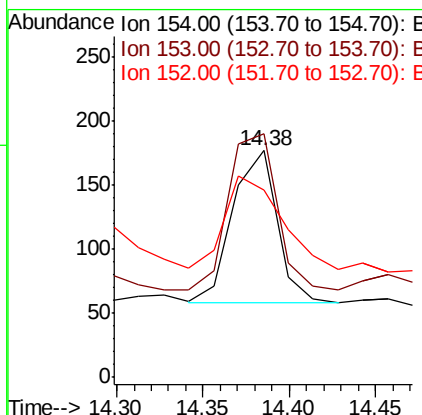
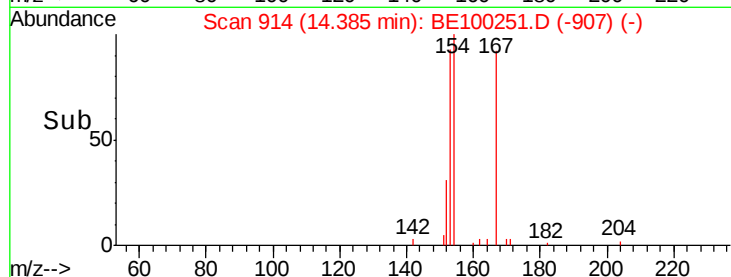
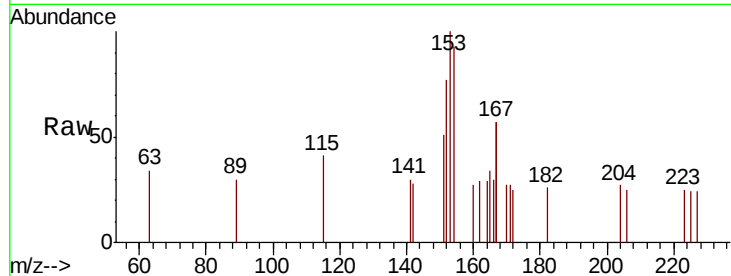
#17
Acenaphthene
Concen: 0.036 ng
RT: 14.38 min Scan# 914
Delta R.T. 0.00 min
Lab File: BE100251.D
Acq: 29 Jun 2019 1:05

Instrument :
BNA_E
ClientSampleId :
EXT-001-SW079-061719

Tot Ion	Ratio	Lower	Upper
154	100		
153	111.7	93.4	140.2
152	85.4	49.4	74.2

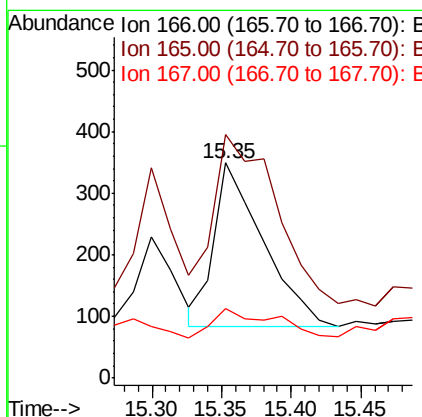
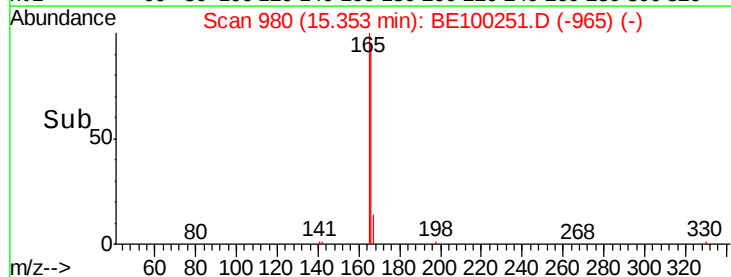
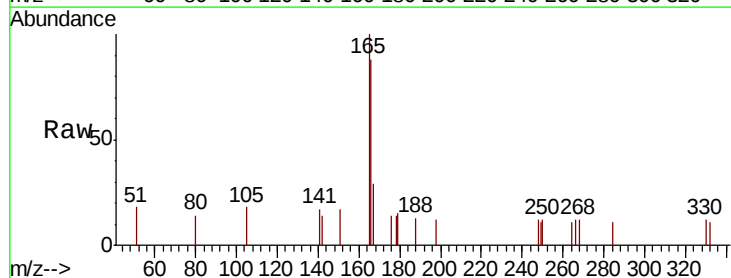
Manual Integrations
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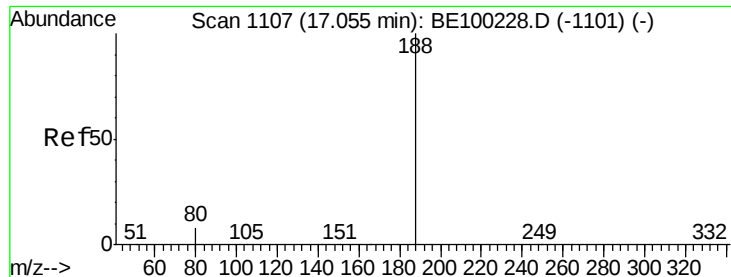
mohammad
7/1/2019 3:07:47 PM



#18
Fluorene
Concen: 0.075 ng
RT: 15.35 min Scan# 980
Delta R.T. -0.00 min
Lab File: BE100251.D
Acq: 29 Jun 2019 1:05

Tgt Ion	Ratio	Lower	Upper
166	100		
165	135.0	81.1	121.7
167	23.0	10.7	16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.05 min Scan# 1107

Delta R.T. -0.00 min

Lab File: BE100251.D

Acq: 29 Jun 2019 1:05

Instrument :

BNA_E

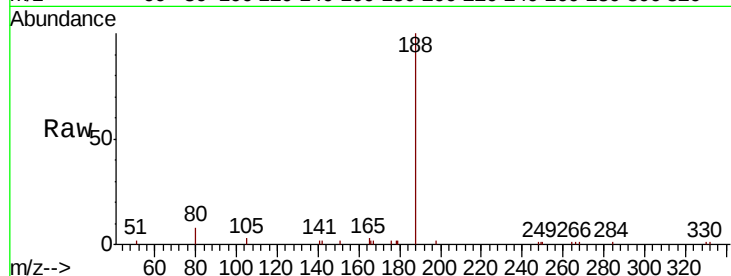
ClientSampleId :

EXT-001-SW079-061719

Tot Ion:	188	Resp:	6651
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	8.4	7.6	11.4

Manual Integrations
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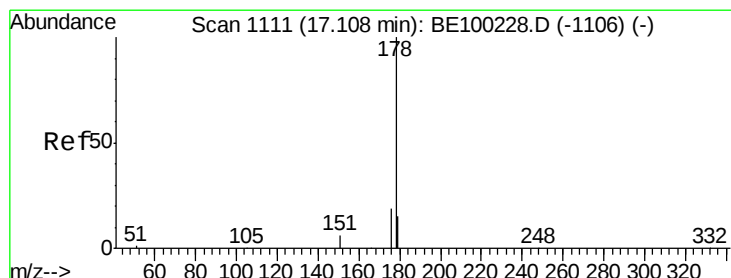
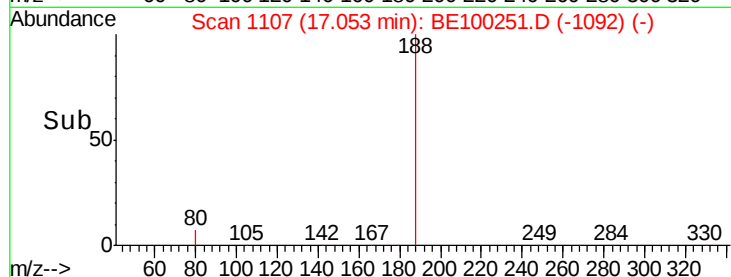
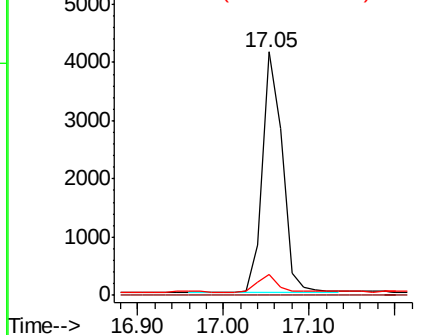
mohammad
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE1

Ion 80.00 (79.70 to 80.70): BE1



#23

Phenanthrene

Concen: 1.325 ng

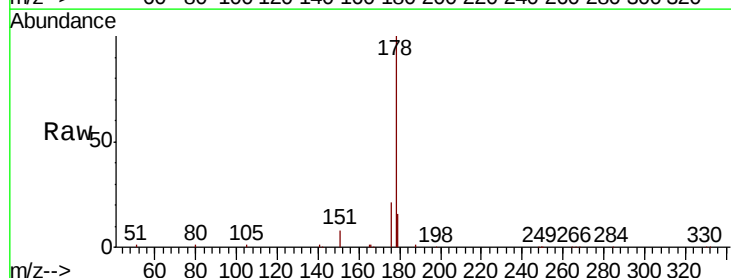
RT: 17.09 min Scan# 1110

Delta R.T. -0.01 min

Lab File: BE100251.D

Acq: 29 Jun 2019 1:05

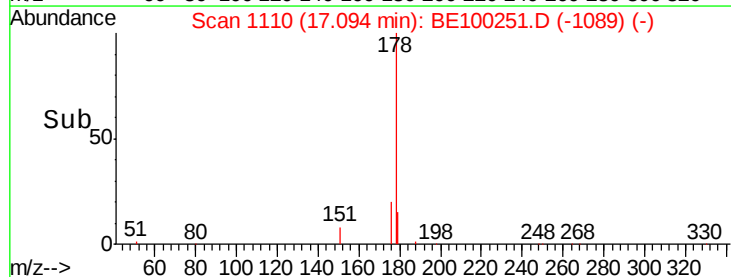
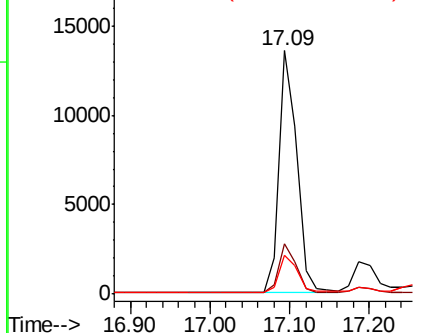
Tgt Ion:	178	Resp:	21367
Ion Ratio	Lower	Upper	
178	100		
176	19.5	15.9	23.9
179	15.9	12.2	18.2

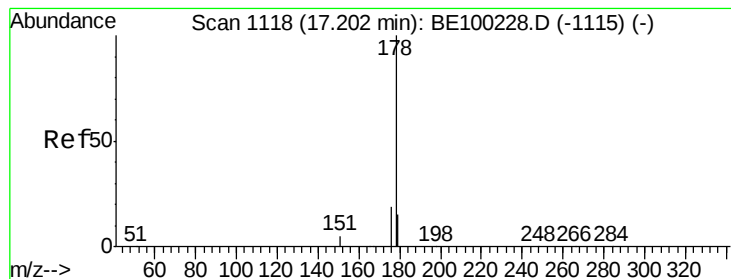


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.251 ng

RT: 17.19 min Scan# 1117

Delta R.T. -0.01 min

Lab File: BE100251.D

Acq: 29 Jun 2019 1:05

Instrument :

BNA_E

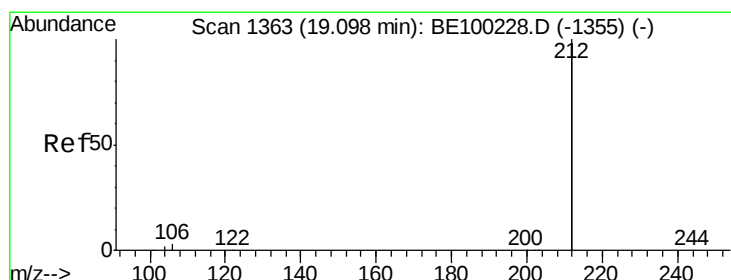
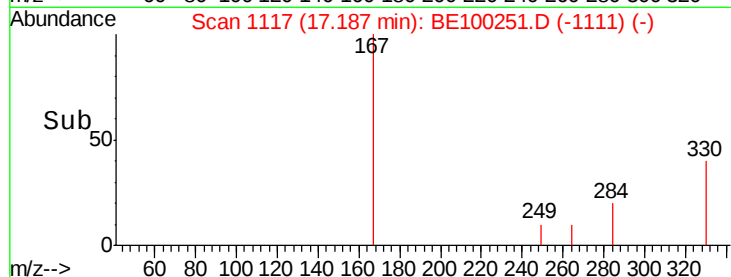
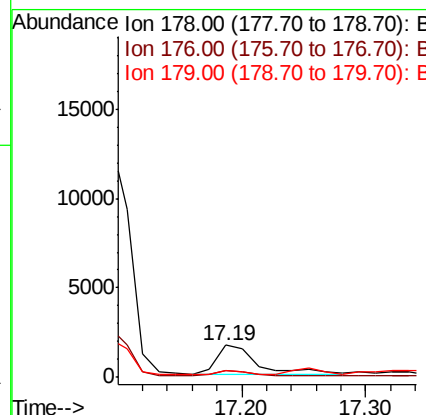
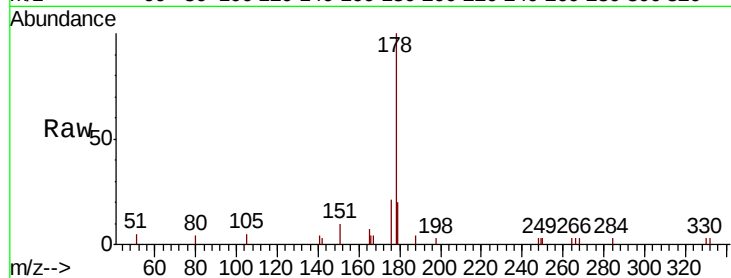
ClientSampleId :

EXT-001-SW079-061719

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.3	22.9
179	9.5	12.2	18.2

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#25

Fluoranthene-d10

Concen: 0.357 ng

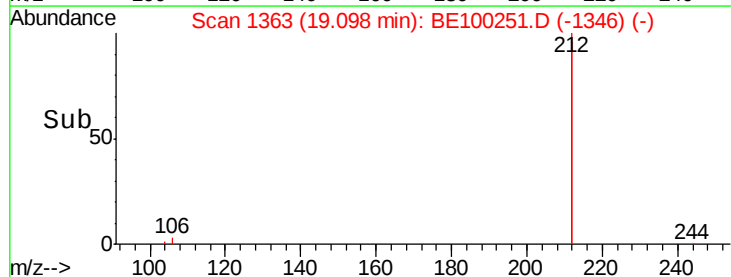
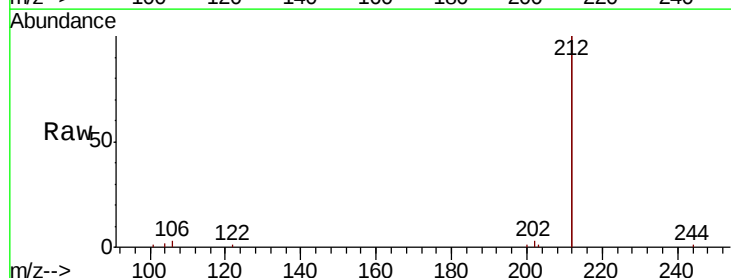
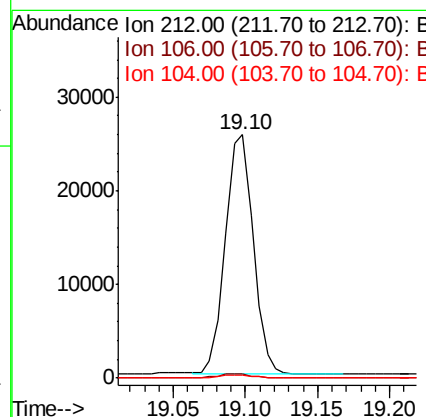
RT: 19.10 min Scan# 1363

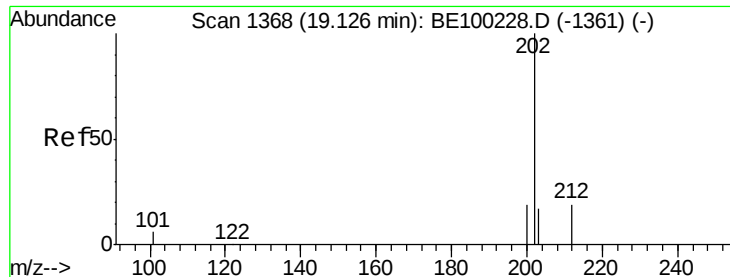
Delta R.T. 0.00 min

Lab File: BE100251.D

Acq: 29 Jun 2019 1:05

Tgt Ion	Ratio	Lower	Upper
212	100		
106	1.6	1.3	1.9
104	1.0	0.8	1.2





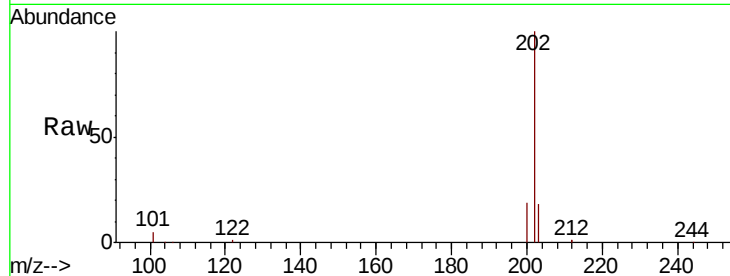
#26
Fluoranthene
Concen: 2.097 ng
RT: 19.13 min Scan# 1368
Delta R.T. 0.00 min
Lab File: BE100251.D
Acq: 29 Jun 2019 1:05

Instrument :
BNA_E
ClientSampleId :
EXT-001-SW079-061719

Tot Ion	Ratio	Lower	Upper
202	100		
101	5.9	4.6	7.0
203	17.7	13.7	20.5

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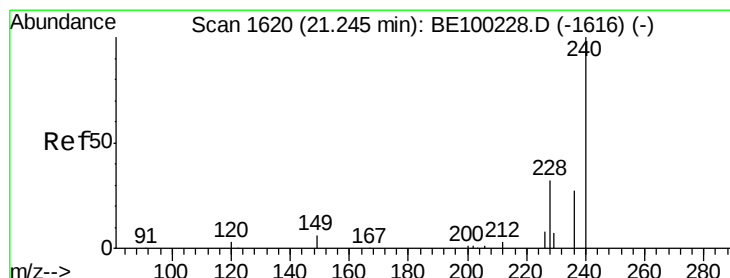
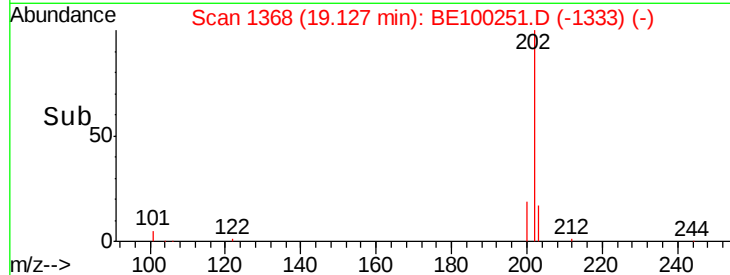
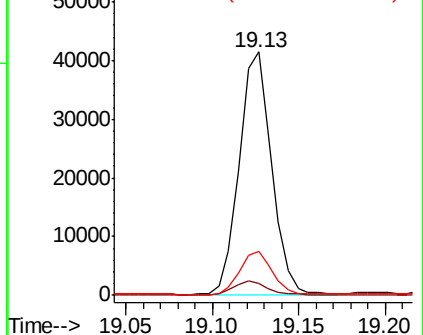


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.25 min Scan# 1620
Delta R.T. 0.00 min
Lab File: BE100251.D
Acq: 29 Jun 2019 1:05

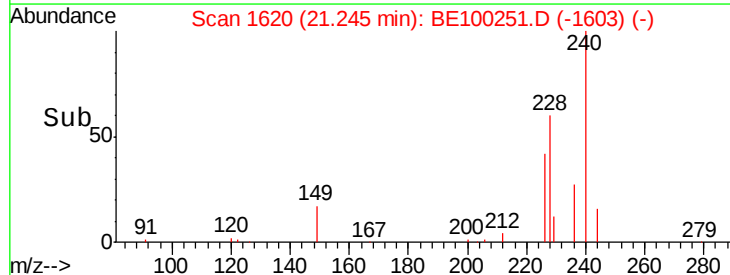
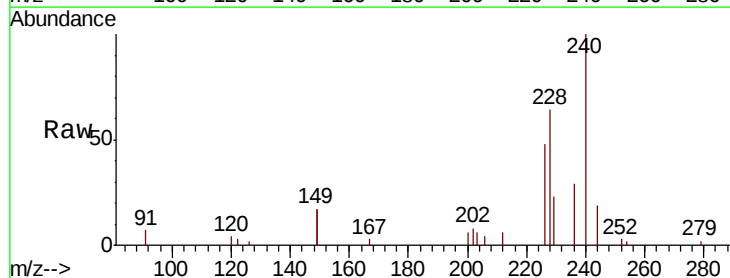
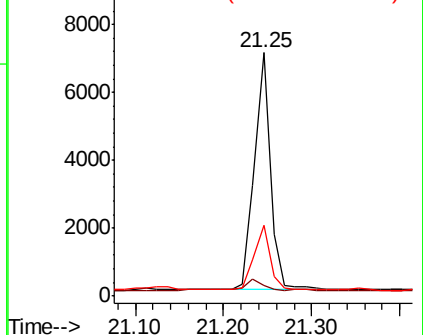
Tgt Ion	Ratio	Lower	Upper
240	100		
120	4.4	3.3	4.9
236	28.9	22.6	34.0

Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





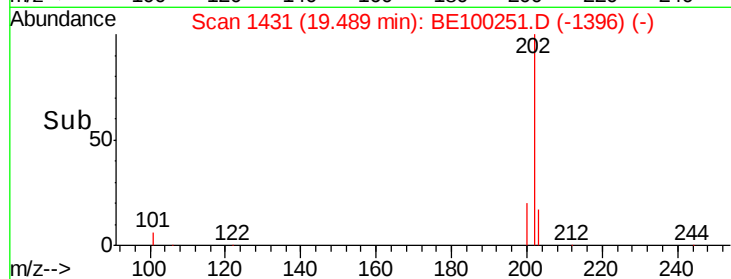
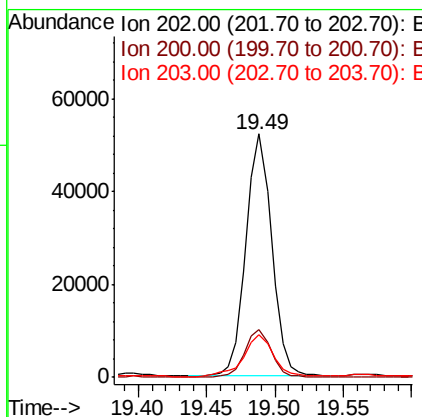
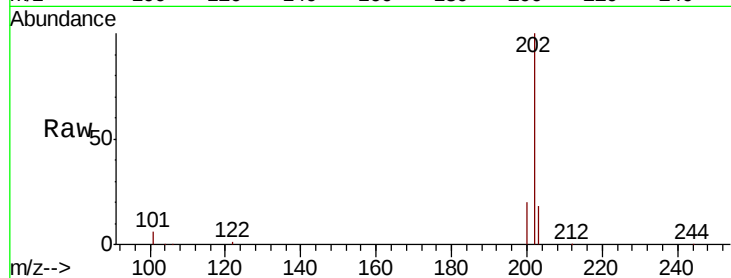
#28
Pvrene
Concen: 2.886 ng
RT: 19.49 min Scan# 1431
Delta R.T. 0.00 min
Lab File: BE100251.D
Acq: 29 Jun 2019 1:05

Instrument :
BNA_E
ClientSampleId :
EXT-001-SW079-061719

Tot Ion	Ratio	Resp	Lower	Upper
202	100			
200	19.6	15.6	23.4	
203	20.0	14.0	21.0	

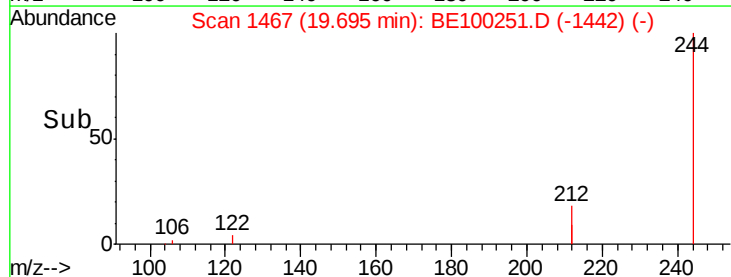
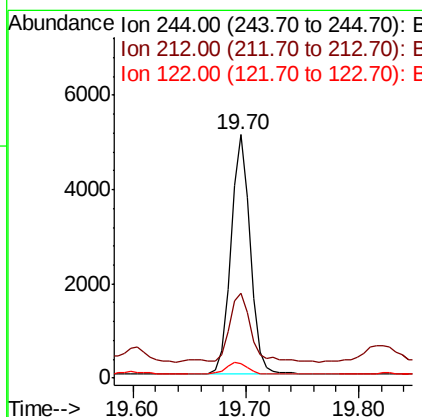
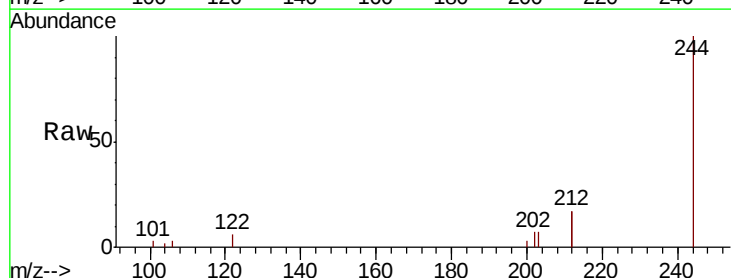
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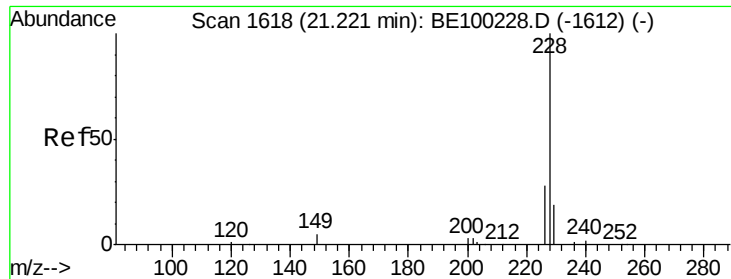
mohammad
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#29
Terphenyl-d14
Concen: 0.330 ng
RT: 19.70 min Scan# 1467
Delta R.T. -0.01 min
Lab File: BE100251.D
Acq: 29 Jun 2019 1:05

Tgt Ion	Ratio	Resp	Lower	Upper
244	100			
212	35.0	27.3	40.9	
122	5.9	4.7	7.1	





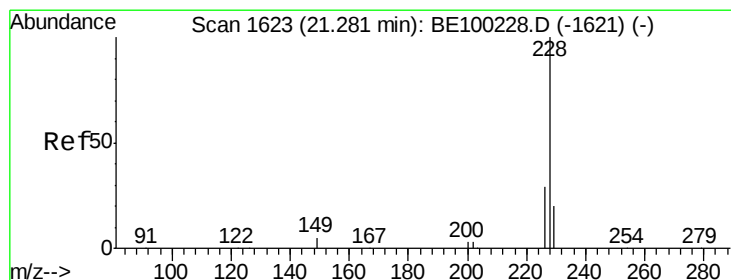
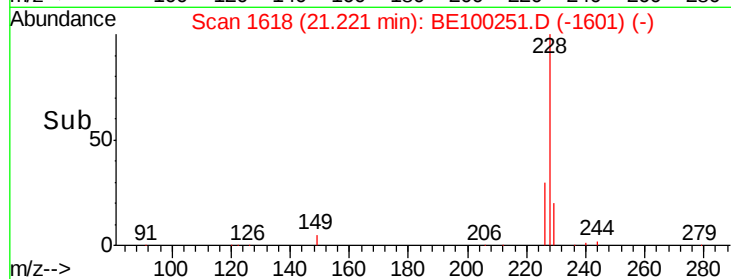
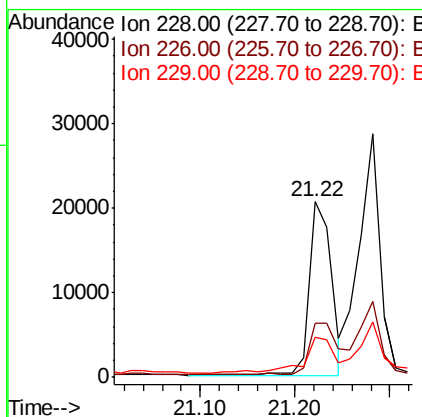
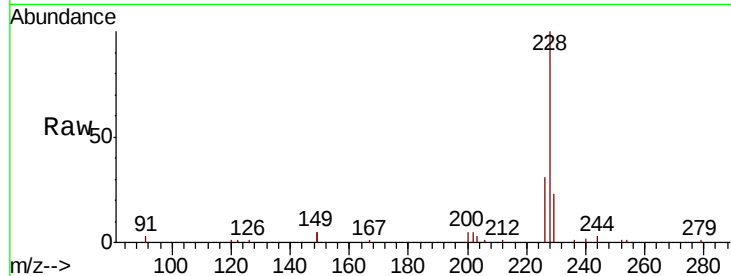
#30
Benzo(a)anthracene
Concen: 1.124 ng
RT: 21.22 min Scan# 1618
Delta R.T. 0.00 min
Lab File: BE100251.D
Acq: 29 Jun 2019 1:05

Instrument :
BNA_E
ClientSampleId :
EXT-001-SW079-061719

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.9	23.2	34.8
229	22.6	15.7	23.5

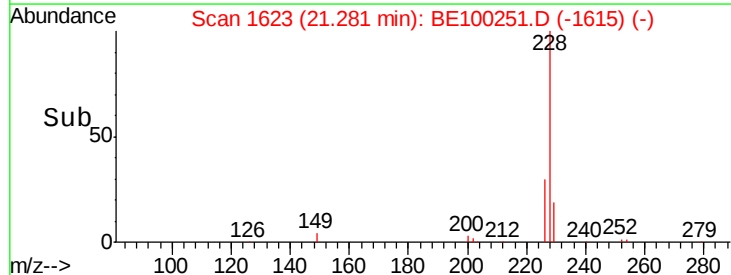
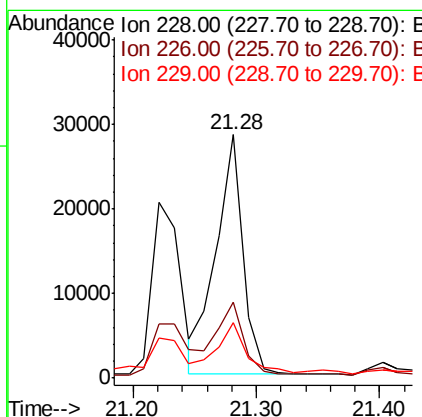
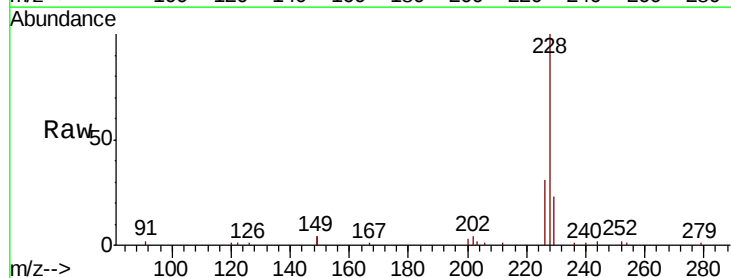
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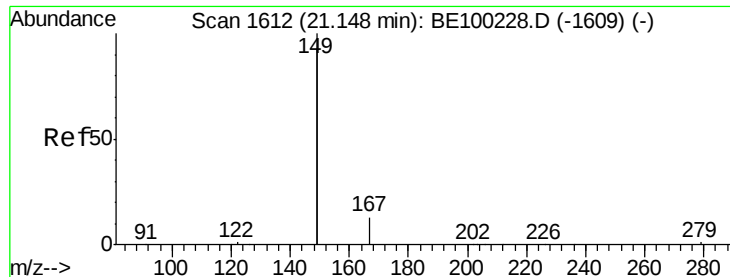
mohammad
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#31
Chrysene
Concen: 1.469 ng
RT: 21.28 min Scan# 1623
Delta R.T. 0.00 min
Lab File: BE100251.D
Acq: 29 Jun 2019 1:05

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.1	23.9	35.9
229	22.7	16.5	24.7





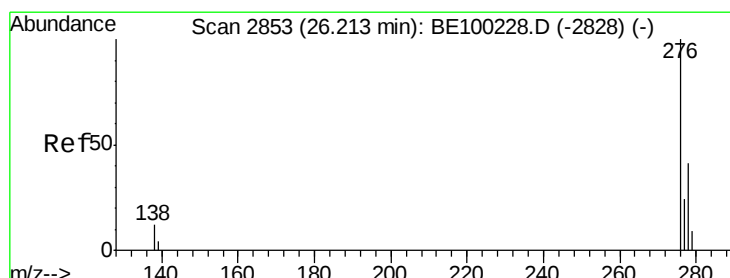
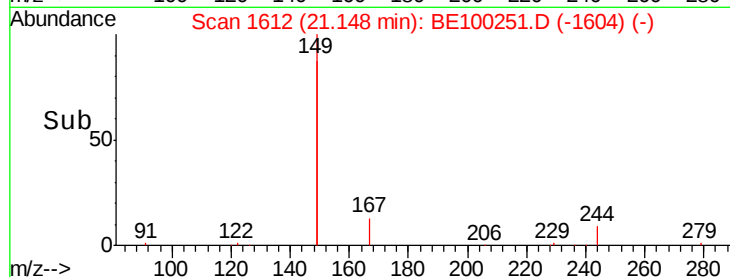
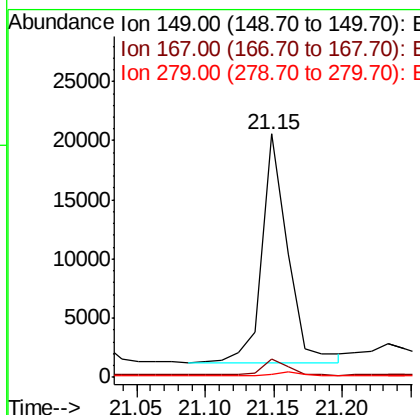
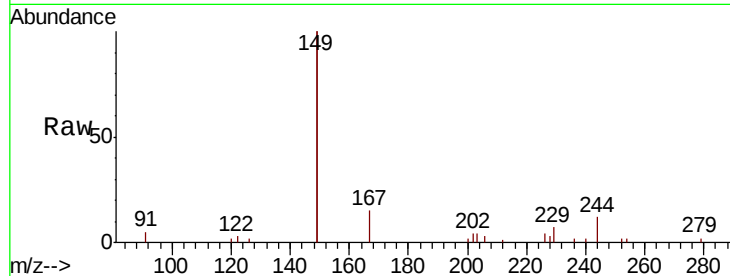
#32
Bis(2-ethylhexyl)phthalate
Concen: 0.547 ng
RT: 21.15 min Scan# 1612
Delta R.T. 0.00 min
Lab File: BE100251.D
Acq: 29 Jun 2019 1:05

Instrument :
BNA_E
ClientSampleId :
EXT-001-SW079-061719

Tot Ion	Ratio	Lower	Upper
149	100		
167	6.6	5.8	8.8
279	1.6	1.1	1.7

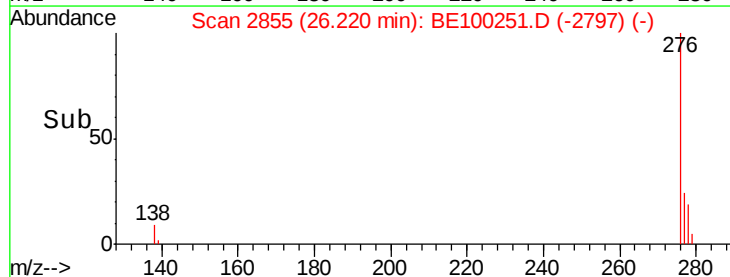
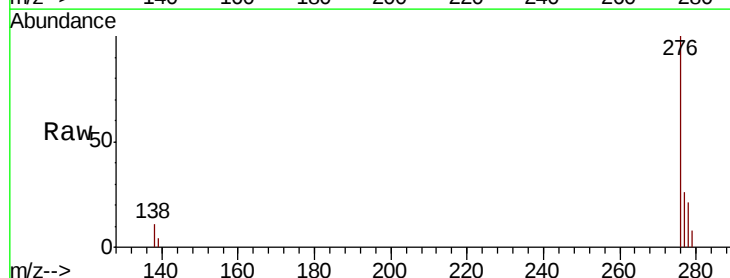
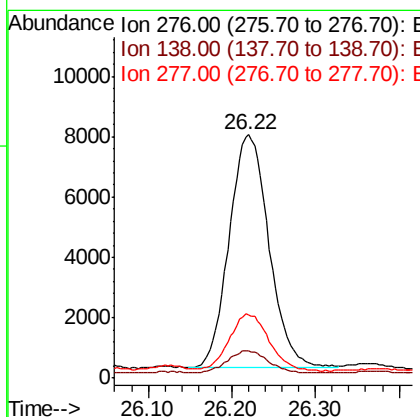
Manual Integrations
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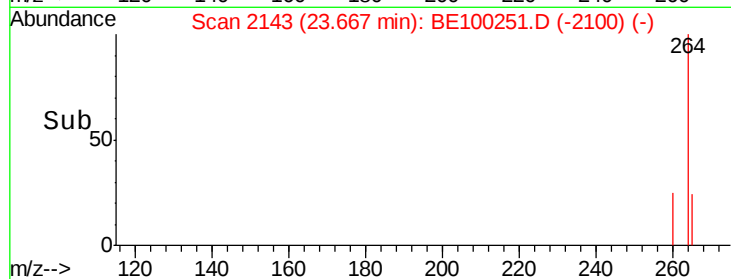
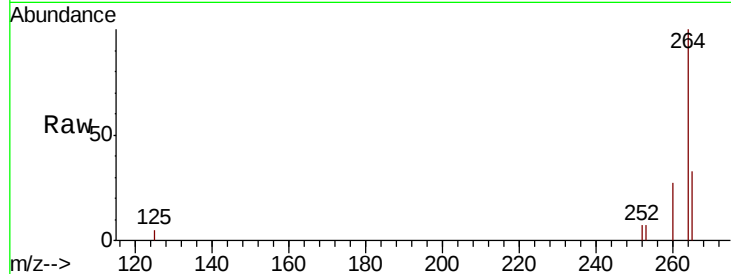
mohammad
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#33
Indeno(1,2,3-cd)pyrene
Concen: 0.653 ng
RT: 26.22 min Scan# 2855
Delta R.T. 0.01 min
Lab File: BE100251.D
Acq: 29 Jun 2019 1:05

Tgt Ion	Ratio	Lower	Upper
276	100		
138	9.9	9.4	14.0
277	24.2	19.2	28.8





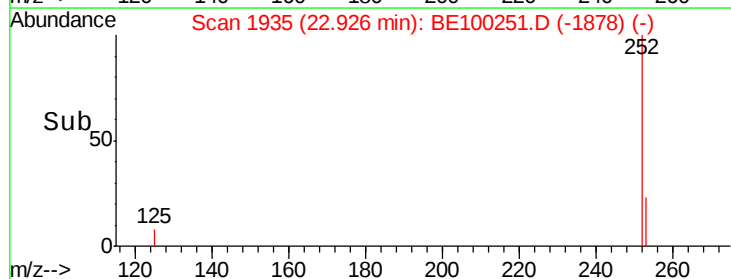
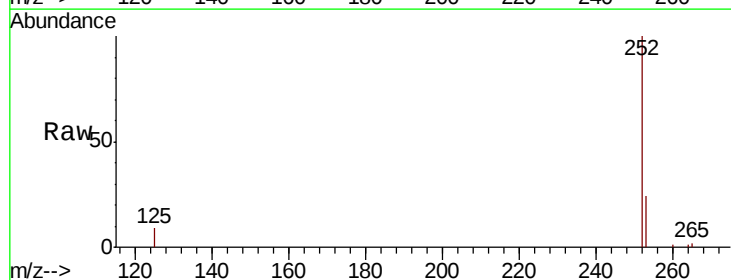
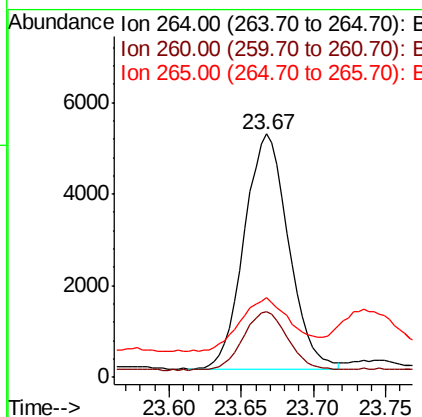
#34
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.67 min Scan# 2143
 Delta R.T. 0.00 min
 Lab File: BE100251.D
 Acq: 29 Jun 2019 1:05

Tot Ion	Ratio	Lower	Upper
264	100		
260	27.2	20.8	31.2
265	32.6	21.8	32.6

Instrument :
 BNA_E
 ClientSampleId :
 EXT-001-SW079-061719

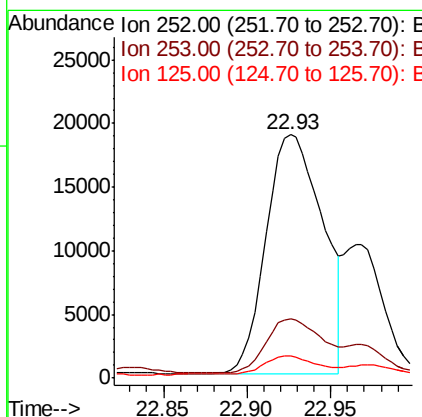
Manual Integrations
 APPROVED

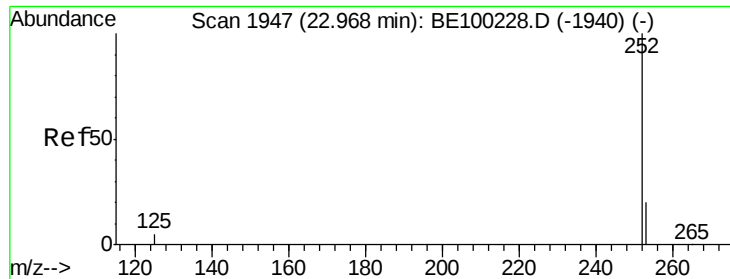
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#35
 Benzo(b)fluoranthene
 Concen: 1.517 ng
 RT: 22.93 min Scan# 1935
 Delta R.T. 0.00 min
 Lab File: BE100251.D
 Acq: 29 Jun 2019 1:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	19.2	28.8
125	8.9	7.4	11.0





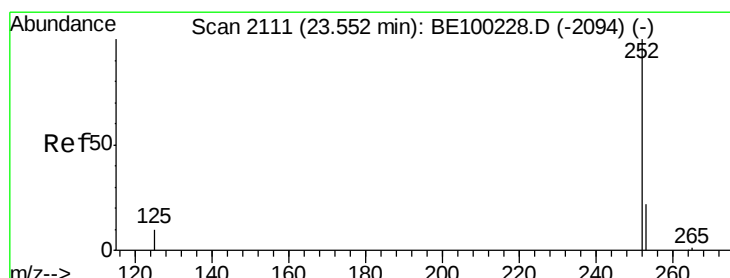
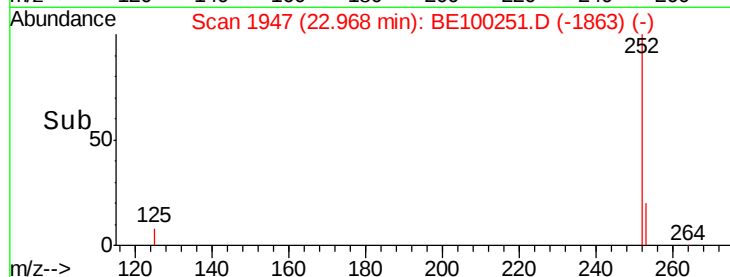
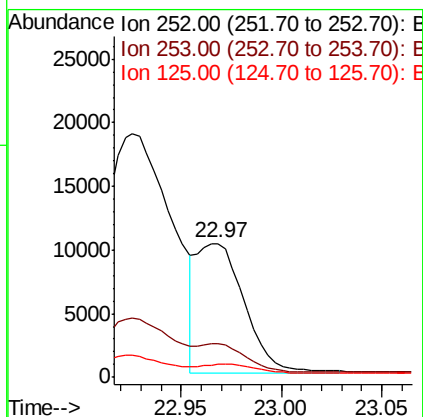
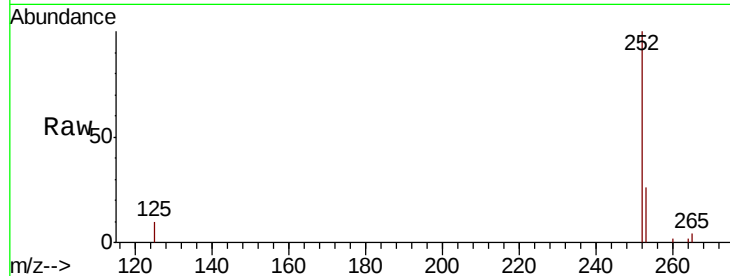
#36
Benzo(k)fluoranthene
Concen: 0.523 ng m
RT: 22.97 min Scan# 1947
Delta R.T. 0.00 min
Lab File: BE100251.D
Acq: 29 Jun 2019 1:05

Instrument :
BNA_E
ClientSampleId :
EXT-001-SW079-061719

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.5	17.9	26.9
125	10.0	5.0	7.4

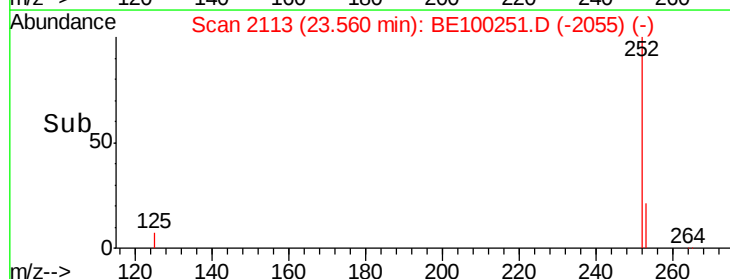
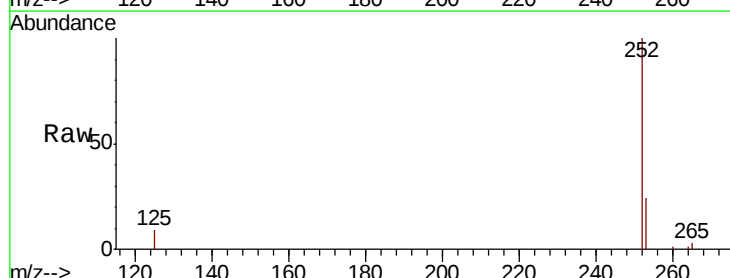
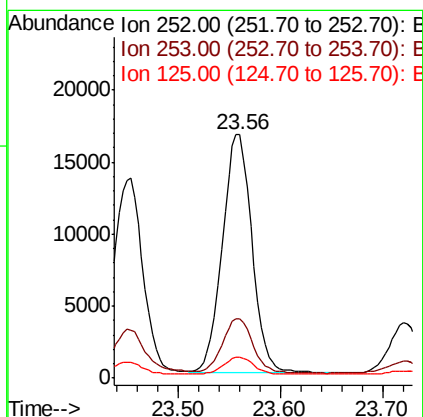
Manual Integrations
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#37
Benzo(a)pyrene
Concen: 1.142 ng
RT: 23.56 min Scan# 2113
Delta R.T. 0.01 min
Lab File: BE100251.D
Acq: 29 Jun 2019 1:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	19.6	29.4
125	8.7	9.0	13.6





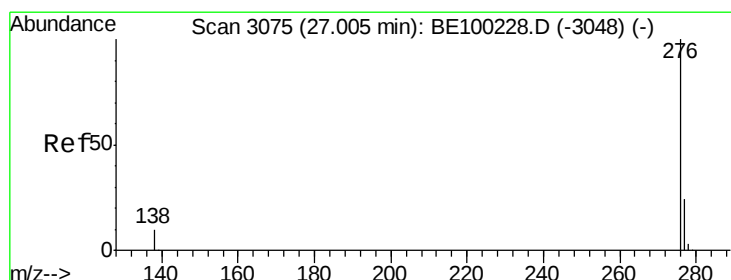
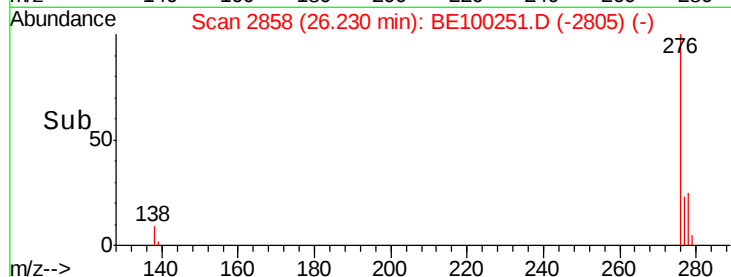
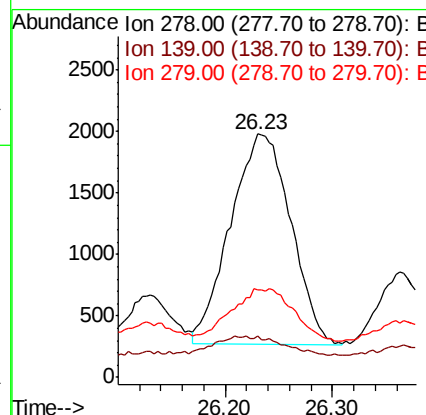
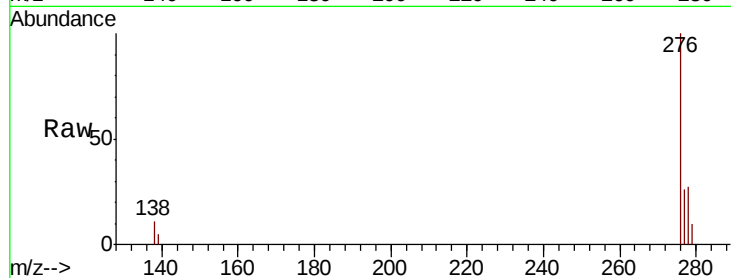
#38
Dibenzo(a,h)anthracene
Concen: 0.218 ng
RT: 26.23 min Scan# 2858
Delta R.T. -0.01 min
Lab File: BE100251.D
Acq: 29 Jun 2019 1:05

Instrument :
BNA_E
ClientSampleId :
EXT-001-SW079-061719

Tot Ion	Ratio	Lower	Upper
278	100		
139	16.8	8.2	12.2#
279	35.9	20.3	30.5#

Manual Integrations
APPROVED

mohammad
7/1/2019 3:07:47 PM



#39
Benzo(g,h,i)perylene
Concen: 0.892 ng
RT: 27.02 min Scan# 3078
Delta R.T. 0.01 min
Lab File: BE100251.D
Acq: 29 Jun 2019 1:05

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.5	20.2	30.2
138	11.0	9.0	13.6

