

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE062819\
 Data File : BE100252.D
 Acq On : 29 Jun 2019 1:41
 Operator : JU/SJ
 Sample : K3445-14
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-029-SW171-061719

Manual Integrations
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 7/1/2019 3:07:50 PM

Quant Time: Jun 29 03:47:17 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	771	0.40	ng	0.00
7) Naphthalene-d8	10.43	136	2805	0.40	ng	-0.01
13) Acenaphthene-d10	14.31	164	2287	0.40	ng	0.00
19) Phenanthrene-d10	17.05	188	7004	0.40	ng	0.00
27) Chrysene-d12	21.24	240	9204	0.40	ng	0.00
34) Perylene-d12	23.67	264	11010	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.22	112	598	0.30	ng	0.00
5) Phenol-d6	6.82	99	852	0.33	ng	-0.02
8) Nitrobenzene-d5	8.81	82	889	0.32	ng	-0.01
11) 2-Methylnaphthalene-d10	12.04	152	1937	0.37	ng	-0.01
14) 2,4,6-Tribromophenol	15.81	330	561	0.35	ng	-0.01
15) 2-Fluorobiphenyl	12.94	172	2560	0.29	ng	0.00
25) Fluoranthene-d10	19.10	212	35100	0.35	ng	0.00
29) Terphenyl-d14	19.70	244	5320	0.28	ng	0.00

Target Compounds

						Qvalue
9) Naphthalene	10.48	128	5239	0.169	ng	98
12) 2-Methylnaphthalene	12.12	142	785	0.145	ng	95
16) Acenaphthylene	14.04	152	5149	0.469	ng	99
17) Acenaphthene	14.38	154	490	0.079	ng	96
18) Fluorene	15.35	166	1633	0.178	ng	# 84
23) Phenanthrene	17.09	178	38598	2.274	ng	99
24) Anthracene	17.19	178	5563	0.364	ng	97
26) Fluoranthene	19.13	202	75389	2.788	ng	99
28) Pyrene	19.49	202	90359	3.708	ng	# 96
30) Benzo(a)anthracene	21.23	228	48157m	1.591	ng	
31) Chrysene	21.28	228	60215	1.982	ng	97
32) Bis(2-ethylhexyl)phthalate	21.15	149	20911	0.431	ng	98
33) Indeno(1,2,3-cd)pyrene	26.22	276	31279	0.778	ng	97
35) Benzo(b)fluoranthene	22.93	252	62554	2.096	ng	# 98
36) Benzo(k)fluoranthene	22.97	252	18427m	0.553	ng	
37) Benzo(a)pyrene	23.56	252	46753	1.563	ng	# 95
38) Dibenzo(a,h)anthracene	26.23	278	9874	0.316	ng	# 82
39) Benzo(a,h,i)perylene	27.01	276	34601	1.078	ng	99

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

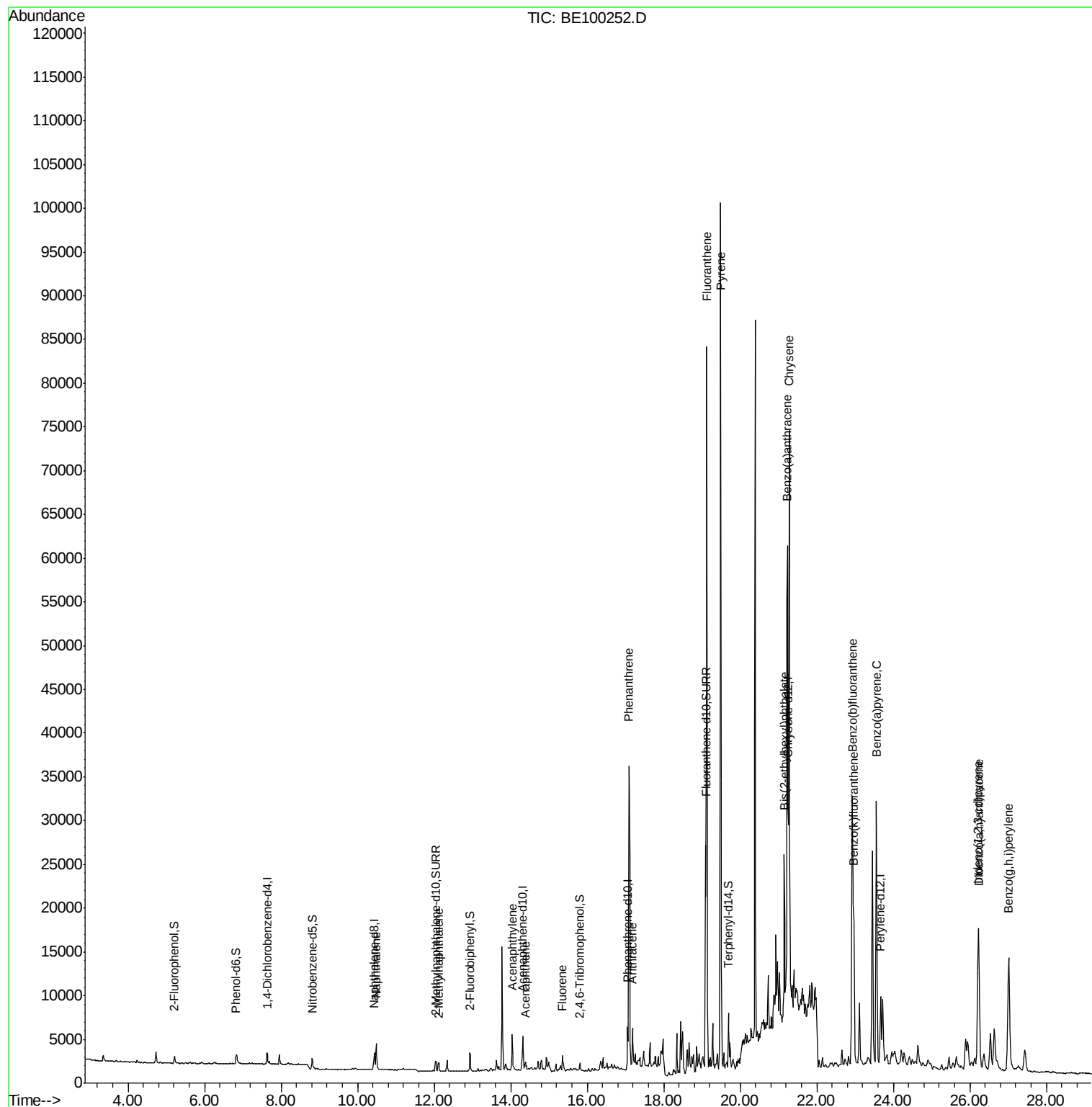
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE062819\
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ALS Vial : 14 Sample Multiplier: 1

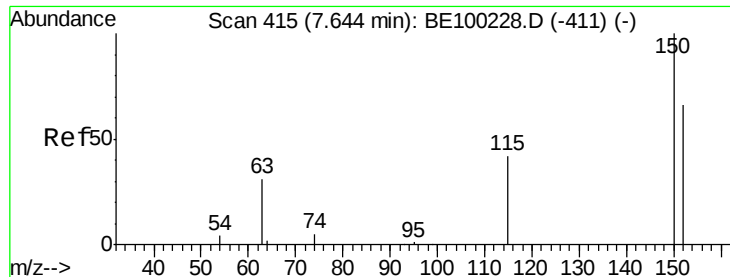
Instrument :
BNA_E
ClientSampleId :
EXT-029-SW171-061719

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE062819.M
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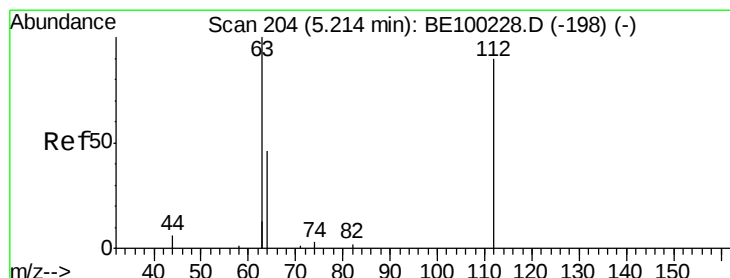
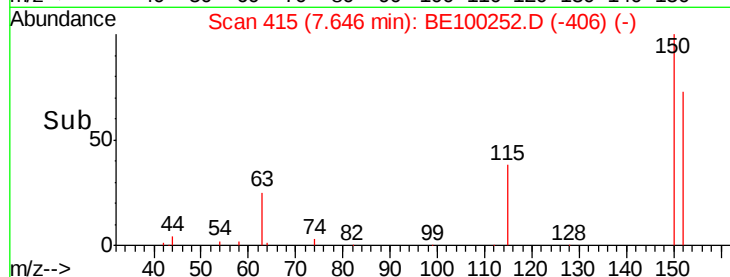
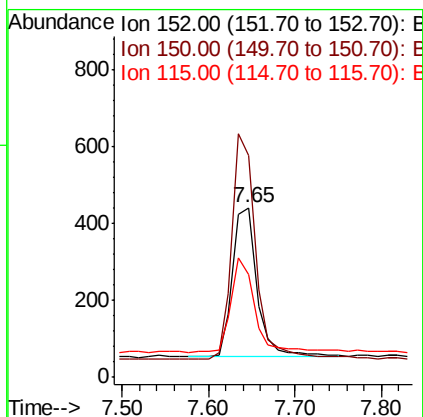
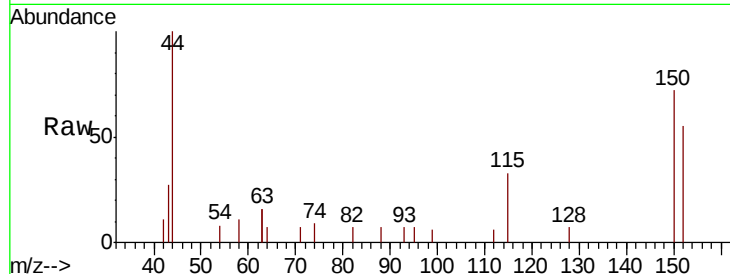
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.65 min Scan# 415
 Delta R.T. 0.00 min
 Lab File: BE100252.D
 Acq: 29 Jun 2019 1:41

Instrument :
 BNA_E
 ClientSampleId :
 EXT-029-SW171-061719

Tot Ion	Ratio	Lower	Upper
152	100		
150	130.6	114.5	171.7
115	60.5	57.1	85.7

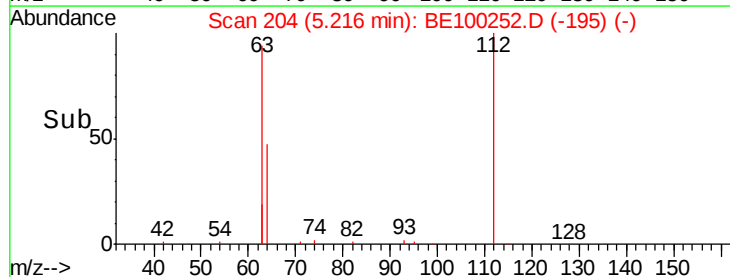
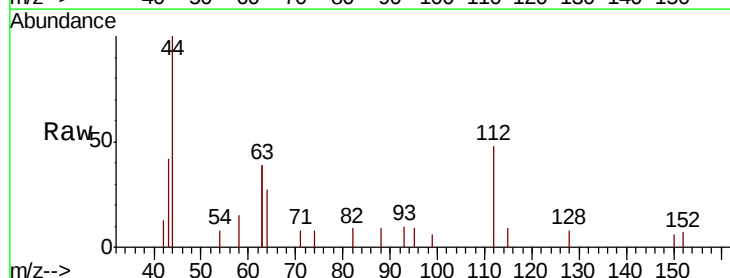
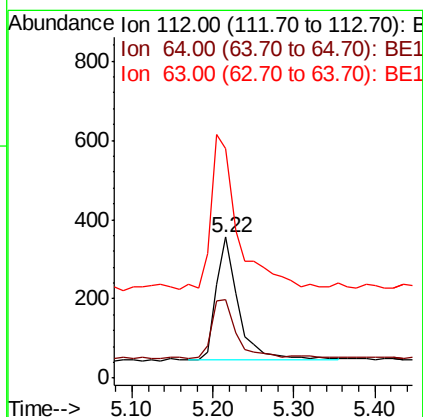
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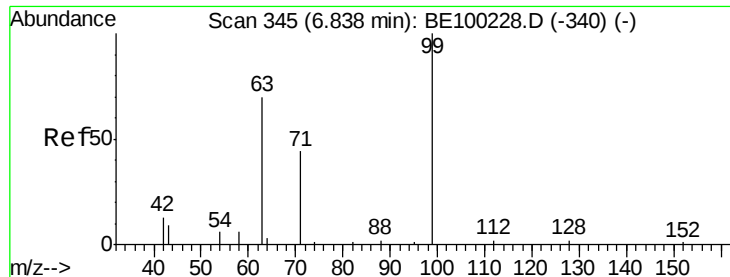
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#4
 2-Fluorophenol
 Concen: 0.304 ng
 RT: 5.22 min Scan# 204
 Delta R.T. 0.00 min
 Lab File: BE100252.D
 Acq: 29 Jun 2019 1:41

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.8	39.4	59.0
63	153.2	104.5	156.7





#5

Phenol-d6

Concen: 0.329 ng

RT: 6.82 min Scan# 343

Delta R.T. -0.02 min

Lab File: BE100252.D

Acq: 29 Jun 2019 1:41

Instrument :

BNA_E

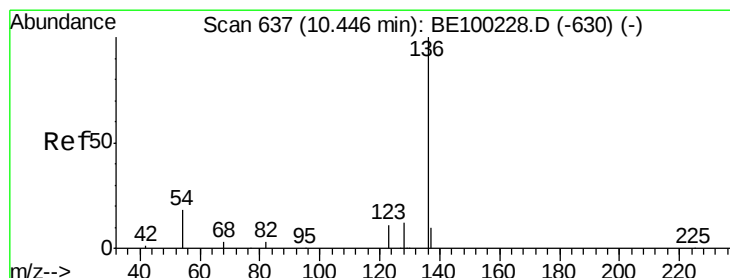
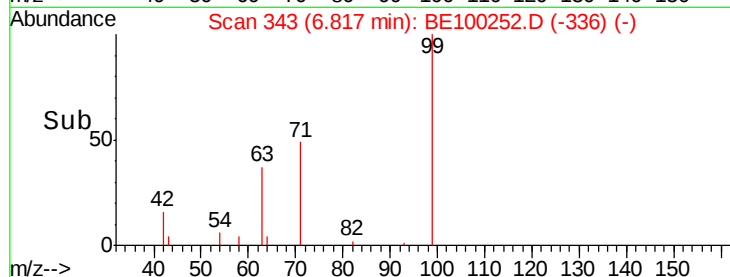
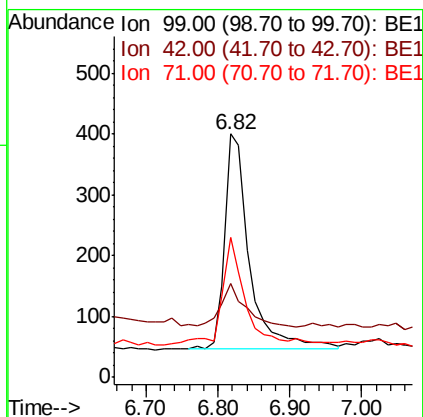
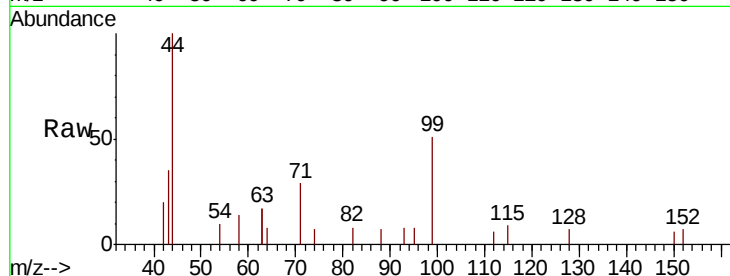
ClientSampleId :

EXT-029-SW171-061719

Tot Ion:	99	Resp:	852
Ion	Ratio	Lower	Upper
99	100		
42	20.2	11.2	16.8#
71	40.0	37.2	55.8

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#7

Naphthalene-d8

Concen: 0.400 ng

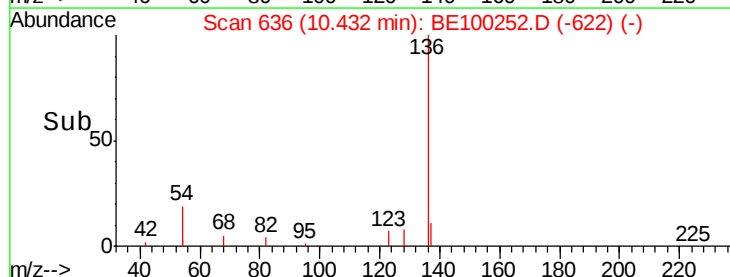
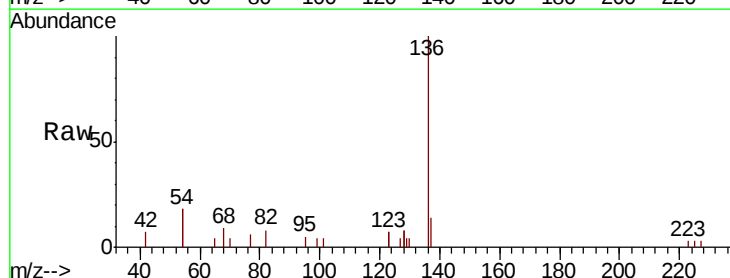
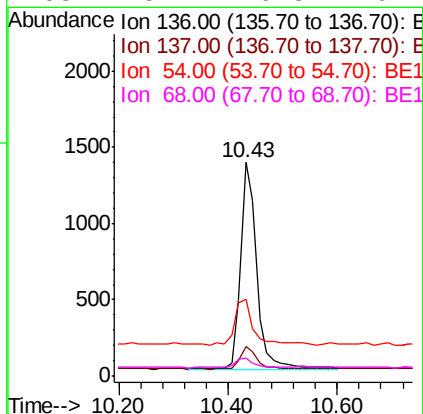
RT: 10.43 min Scan# 636

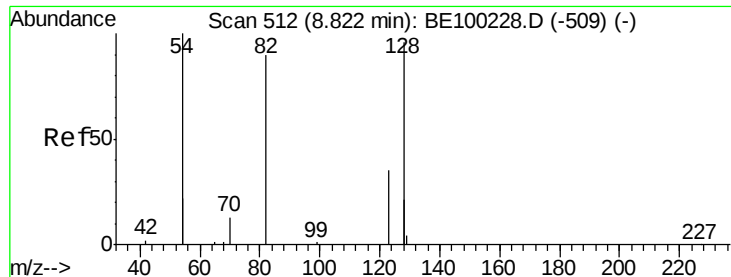
Delta R.T. -0.01 min

Lab File: BE100252.D

Acq: 29 Jun 2019 1:41

Tgt Ion:	136	Resp:	2805
Ion	Ratio	Lower	Upper
136	100		
137	13.8	11.8	17.8
54	36.0	27.7	41.5
68	8.7	6.8	10.2





#8

Nitrobenzene-d5

Concen: 0.319 ng

RT: 8.81 min Scan# 511

Delta R.T. -0.01 min

Lab File: BE100252.D

Acq: 29 Jun 2019 1:41

Instrument :

BNA_E

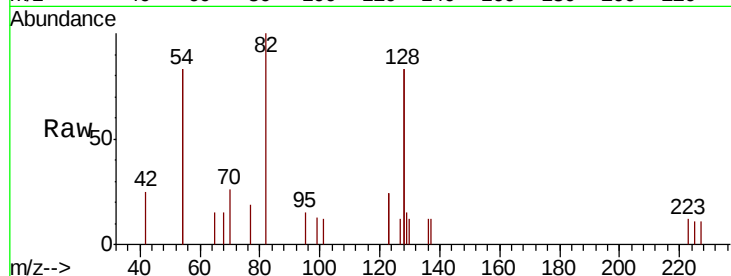
ClientSampleId :

EXT-029-SW171-061719

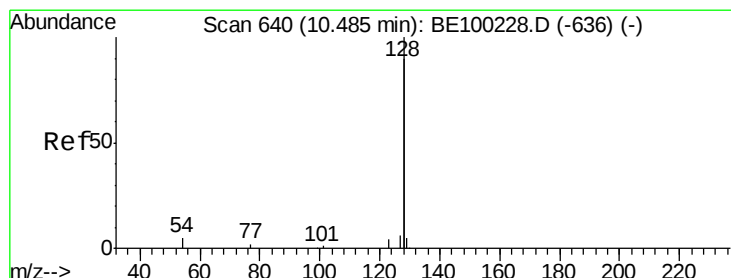
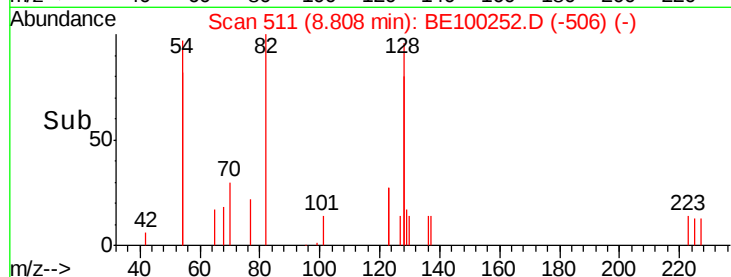
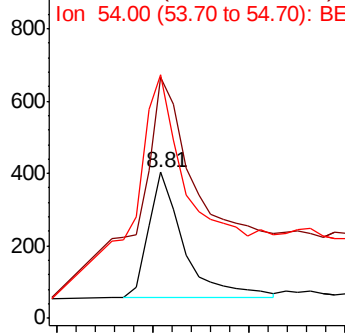
Tot Ion:	82	Resp:	889
Ion	Ratio	Lower	Upper
82	100		
128	165.3	140.9	211.3
54	166.7	146.2	219.2

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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: 0.169 ng

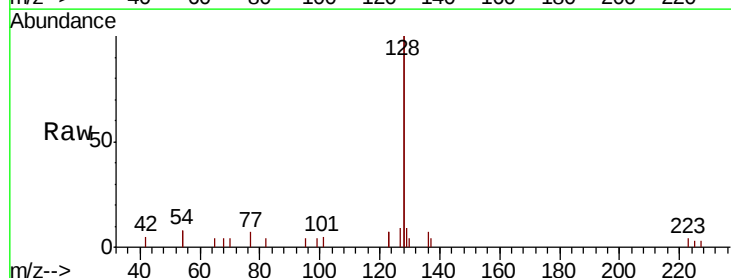
RT: 10.48 min Scan# 640

Delta R.T. -0.00 min

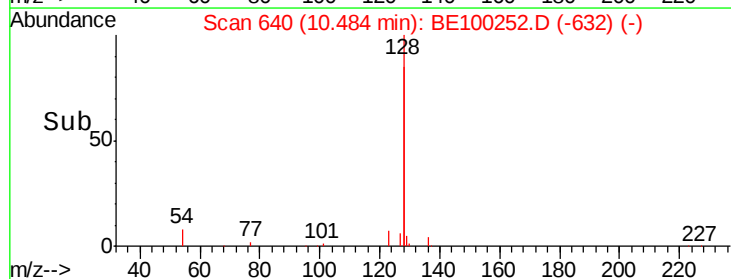
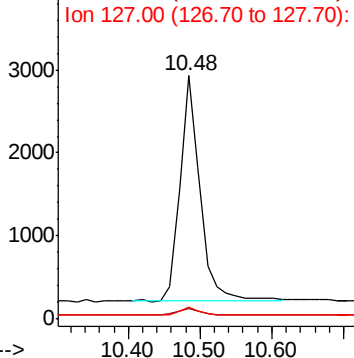
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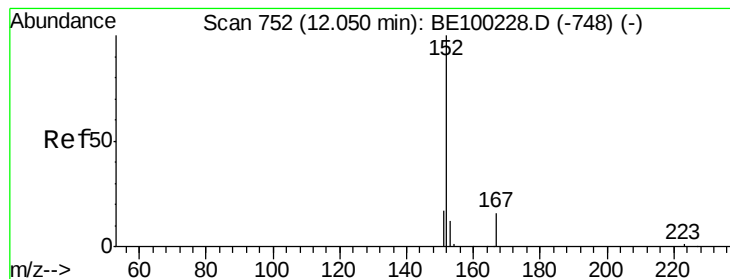
Acq: 29 Jun 2019 1:41

Tgt Ion:	128	Resp:	5239
Ion	Ratio	Lower	Upper
128	100		
129	4.5	3.0	4.6
127	4.7	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





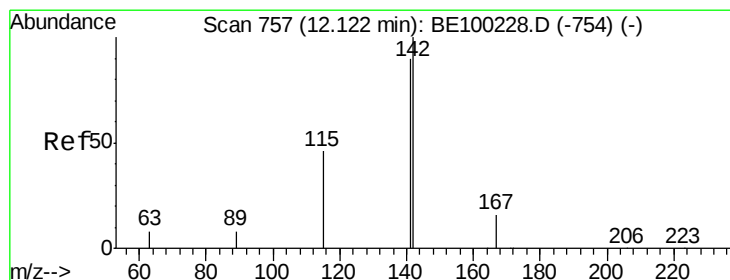
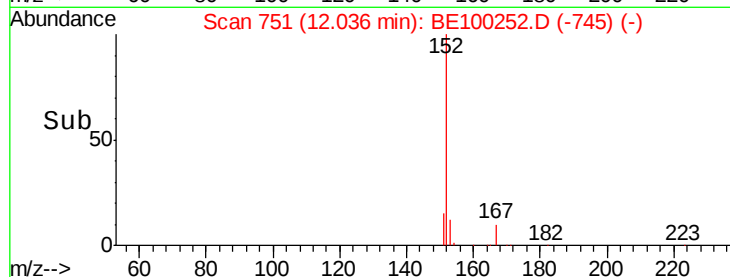
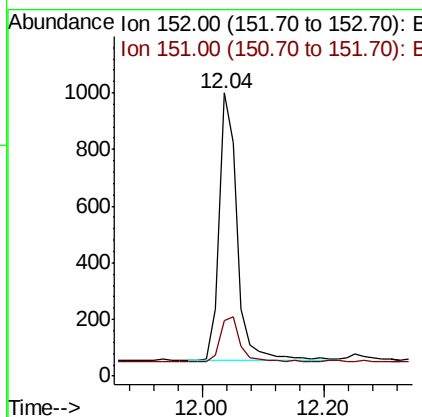
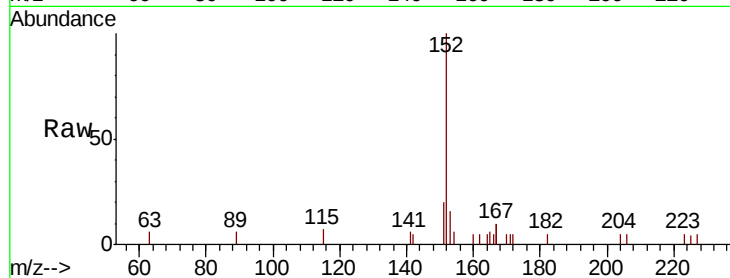
#11
2-Methylnaphthalene-d10
Concen: 0.367 ng
RT: 12.04 min Scan# 751
Delta R.T. -0.01 min
Lab File: BE100252.D
Acq: 29 Jun 2019 1:41

Instrument :
BNA_E
ClientSampleId :
EXT-029-SW171-061719

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.1	22.7

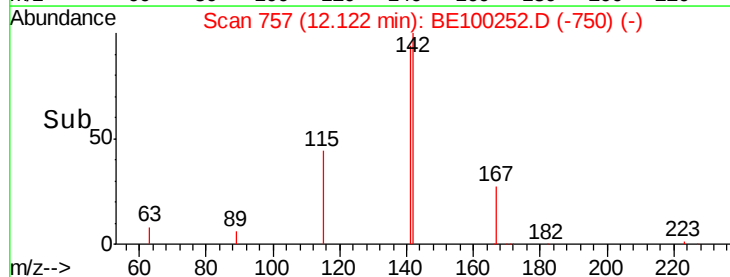
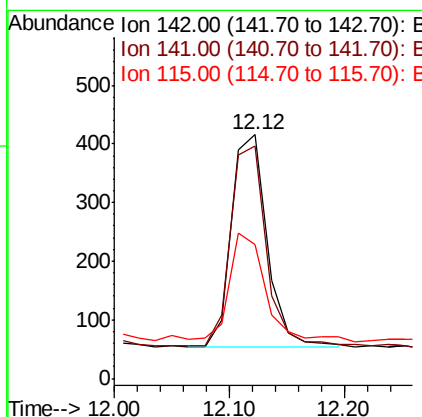
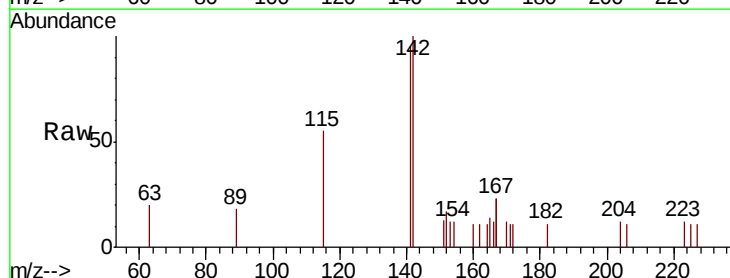
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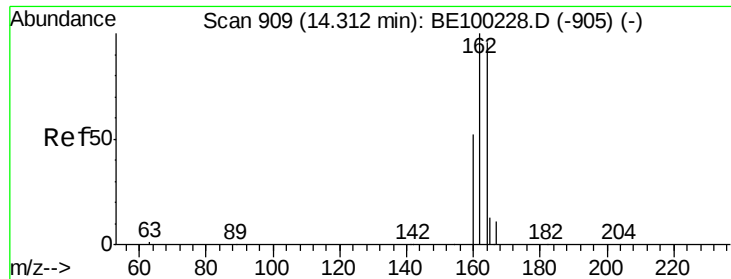
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#12
2-Methylnaphthalene
Concen: 0.145 ng
RT: 12.12 min Scan# 757
Delta R.T. -0.00 min
Lab File: BE100252.D
Acq: 29 Jun 2019 1:41

Tgt Ion	Ratio	Lower	Upper
142	100		
141	95.2	72.4	108.6
115	54.8	40.4	60.6





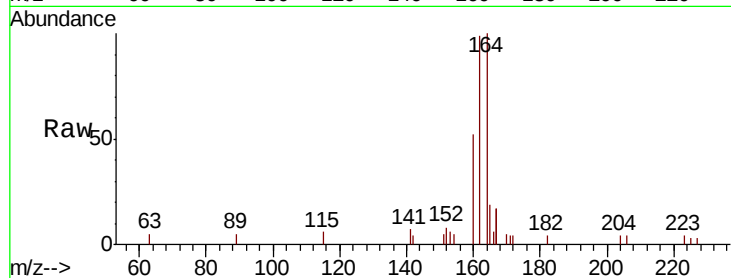
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.31 min Scan# 909
Delta R.T. -0.00 min
Lab File: BE100252.D
Acq: 29 Jun 2019 1:41

Instrument :
BNA_E
ClientSampleId :
EXT-029-SW171-061719

Tot Ion	Ratio	Lower	Upper
164	100		
162	98.8	83.4	125.0
160	51.8	45.0	67.6

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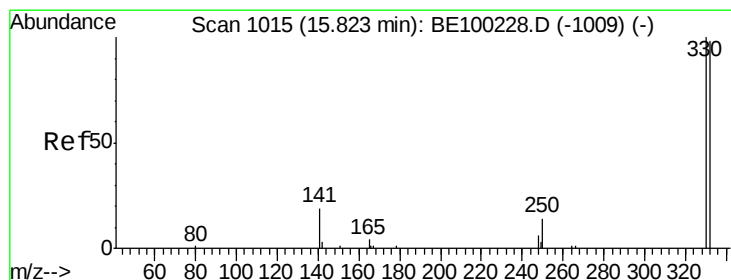
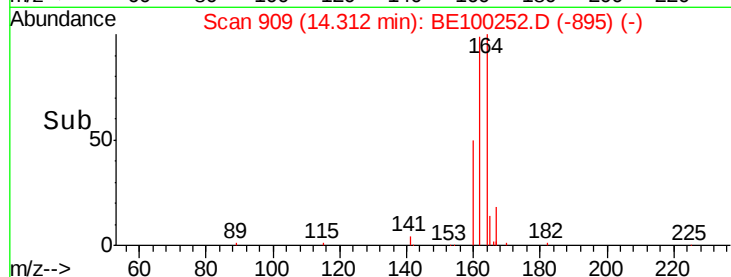
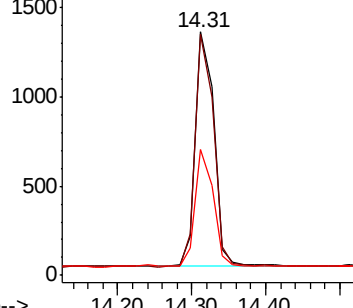


Abundance

Ion 164.00 (163.70 to 164.70): E

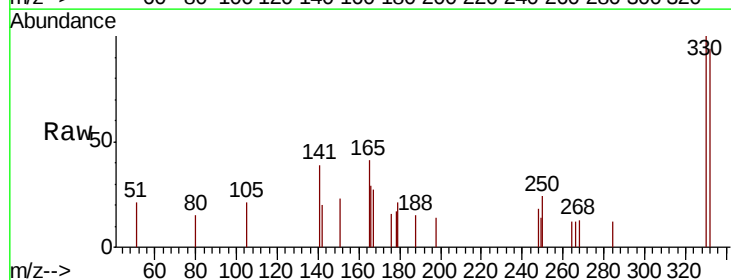
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14
2,4,6-Tribromophenol
Concen: 0.351 ng
RT: 15.81 min Scan# 1014
Delta R.T. -0.01 min
Lab File: BE100252.D
Acq: 29 Jun 2019 1:41

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.7	77.0	115.4
141	51.7	22.0	33.0#

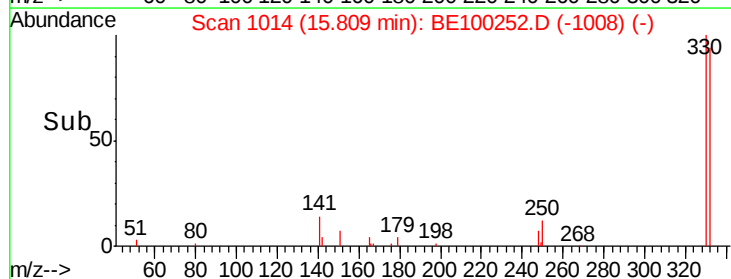
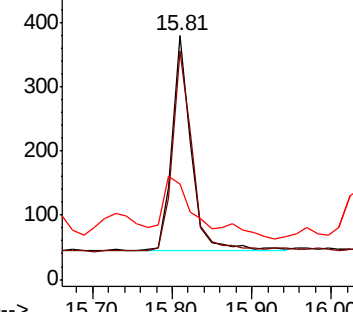


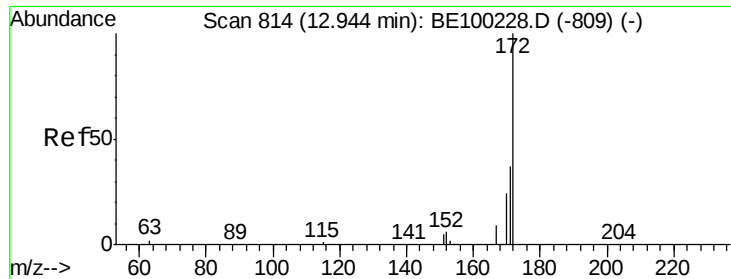
Abundance

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





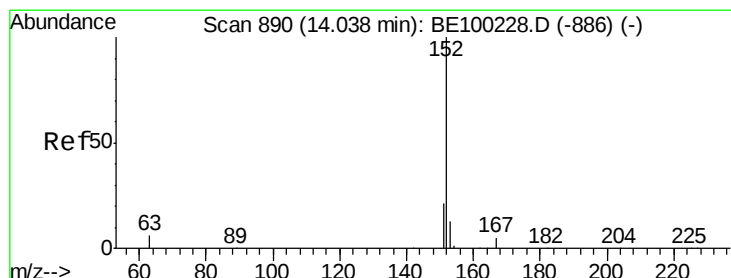
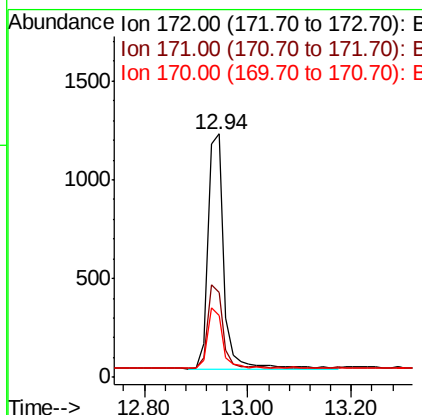
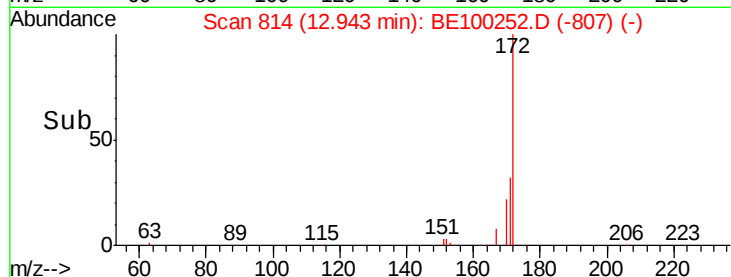
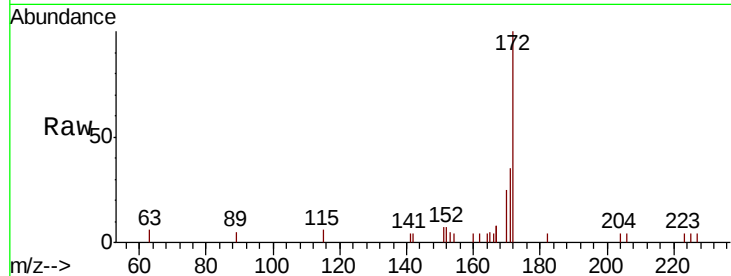
#15
2-Fluorobiphenyl
Concen: 0.287 ng
RT: 12.94 min Scan# 814
Delta R.T. -0.00 min
Lab File: BE100252.D
Acq: 29 Jun 2019 1:41

Instrument :
BNA_E
ClientSampleId :
EXT-029-SW171-061719

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.0	31.9	47.9
170	25.3	22.2	33.2

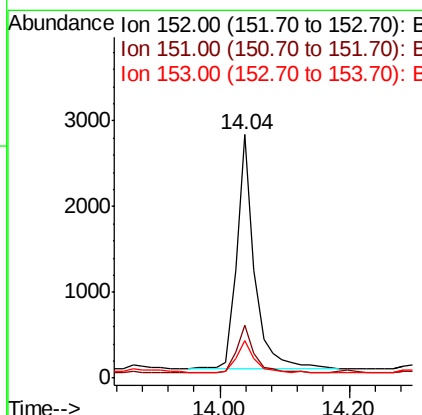
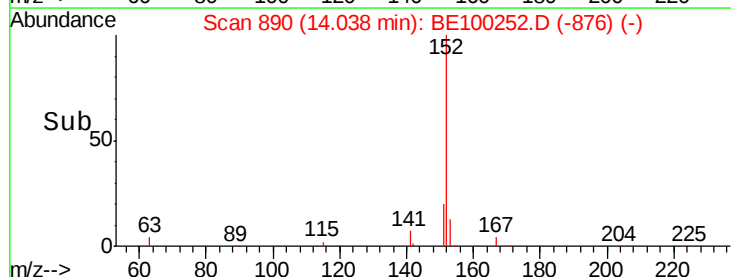
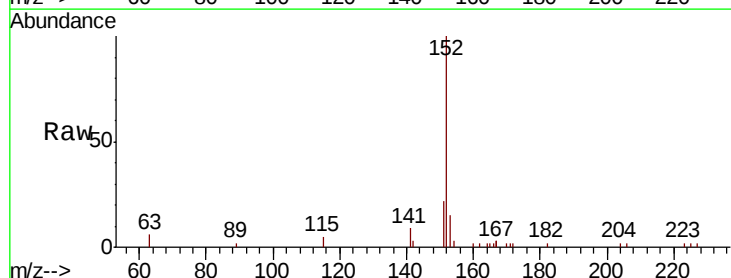
Manual Integrations
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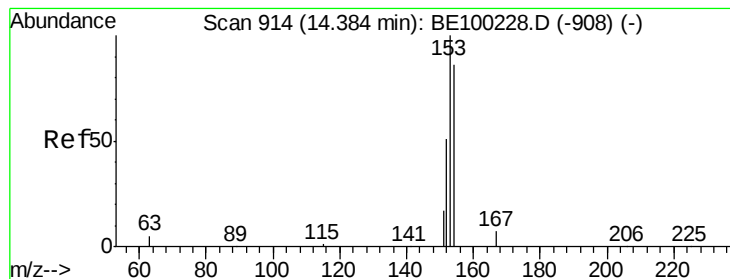
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#16
Acenaphthylene
Concen: 0.469 ng
RT: 14.04 min Scan# 890
Delta R.T. -0.00 min
Lab File: BE100252.D
Acq: 29 Jun 2019 1:41

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.6	25.0
153	13.9	10.5	15.7





#17

Acenaphthene

Concen: 0.079 ng

RT: 14.38 min Scan# 914

Delta R.T. -0.00 min

Lab File: BE100252.D

Acq: 29 Jun 2019 1:41

Instrument :

BNA_E

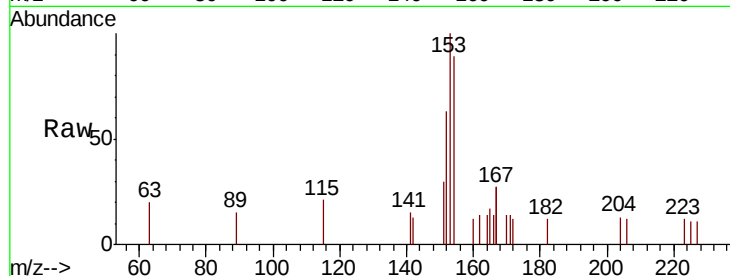
ClientSampleId :

EXT-029-SW171-061719

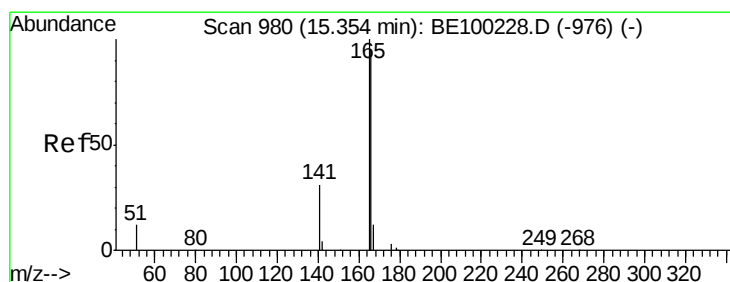
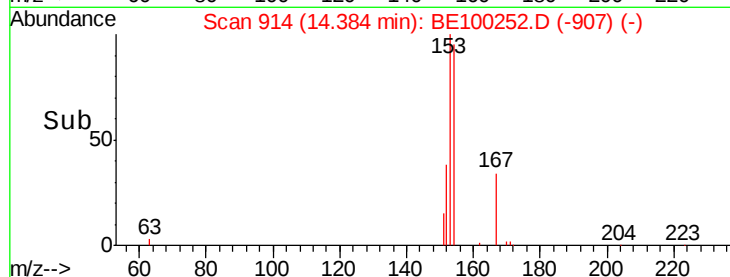
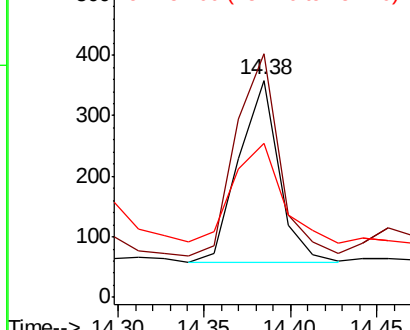
Tot Ion:	154	Resp:	490
Ion Ratio	Lower	Upper	
154	100		
153	118.6	93.4	140.2
152	69.4	49.4	74.2

Manual Integrations
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mohammad
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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: 0.178 ng

RT: 15.35 min Scan# 980

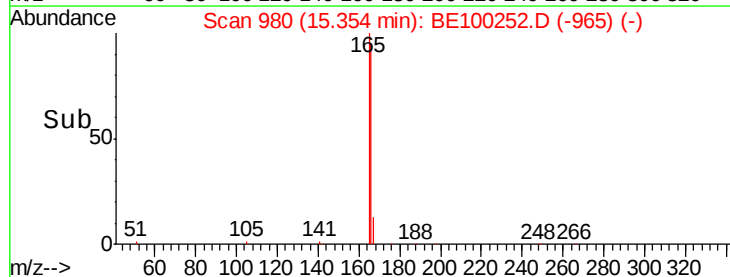
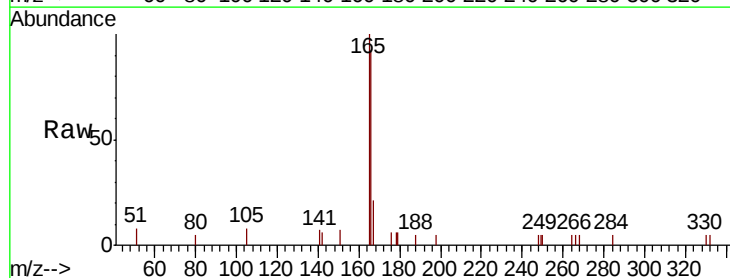
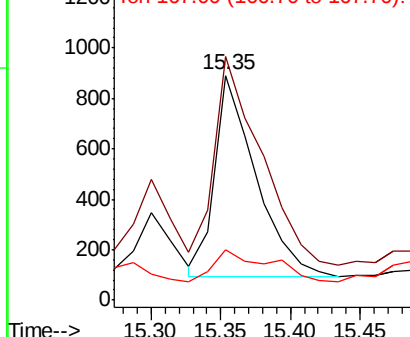
Delta R.T. -0.00 min

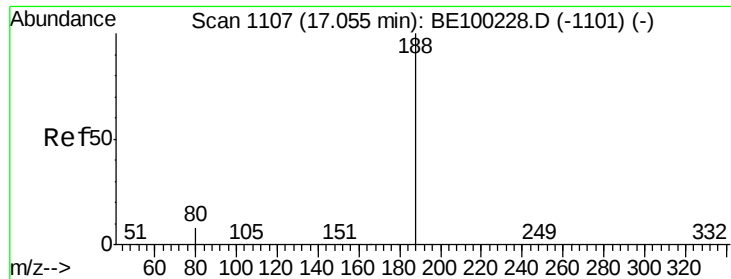
Lab File: BE100252.D

Acq: 29 Jun 2019 1:41

Tgt Ion:	166	Resp:	1633
Ion Ratio	Lower	Upper	
166	100		
165	116.7	81.1	121.7
167	20.6	10.7	16.1#

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





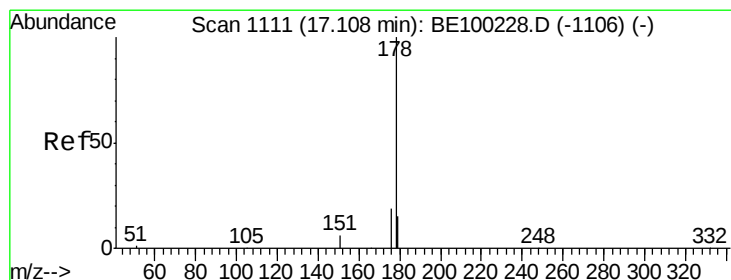
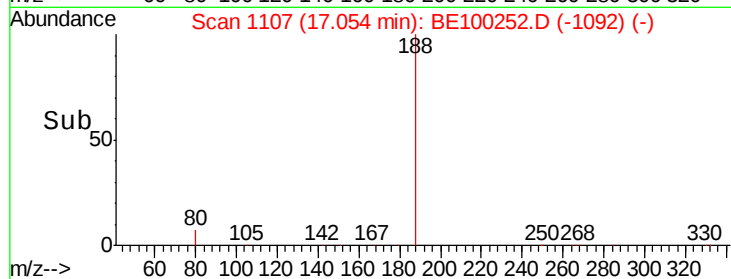
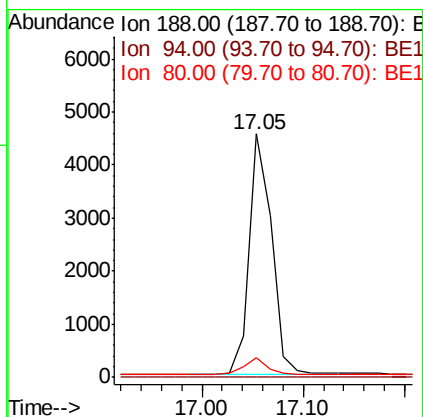
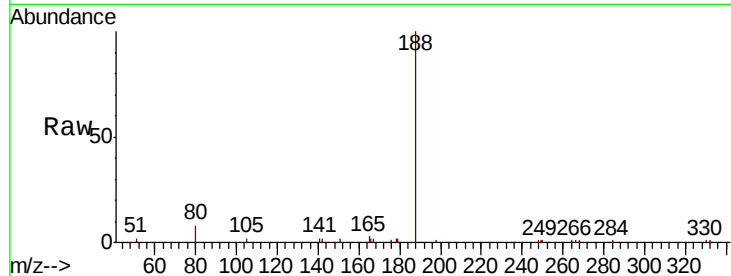
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.05 min Scan# 1107
Delta R.T. -0.00 min
Lab File: BE100252.D
Acq: 29 Jun 2019 1:41

Instrument :
BNA_E
ClientSampleId :
EXT-029-SW171-061719

Tot Ion	Ratio	Resp	Lower	Upper
188	100	7004		
94	0.0	0.0	0.0	0.0
80	8.0	7.6	11.4	

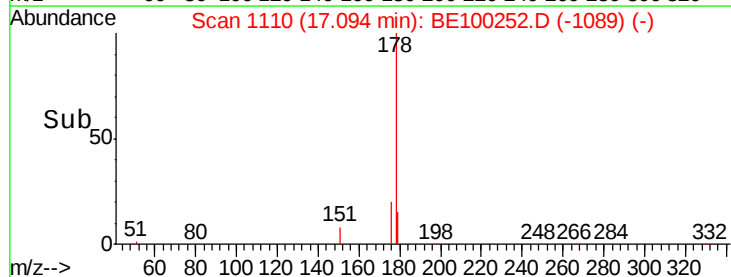
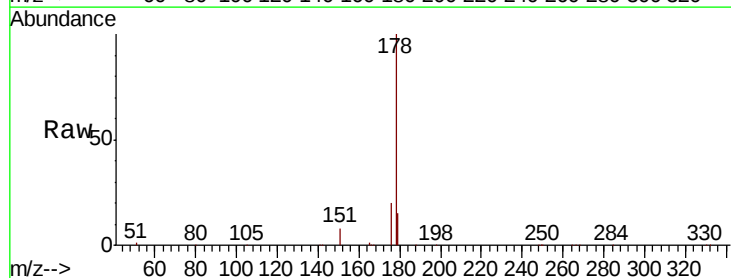
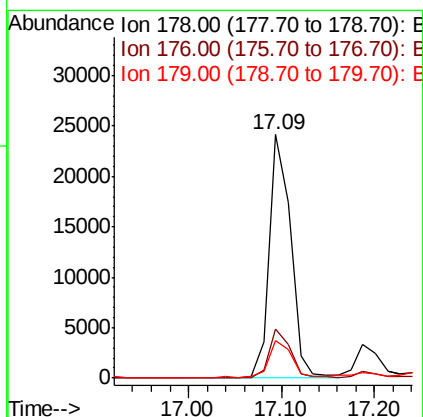
Manual Integrations
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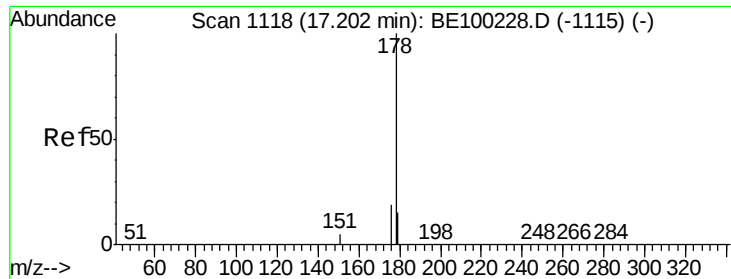
mohammad
7/1/2019 3:07:50 PM



#23
Phenanthrene
Concen: 2.274 ng
RT: 17.09 min Scan# 1110
Delta R.T. -0.01 min
Lab File: BE100252.D
Acq: 29 Jun 2019 1:41

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	38598		
176	19.8	15.9	23.9	
179	15.7	12.2	18.2	





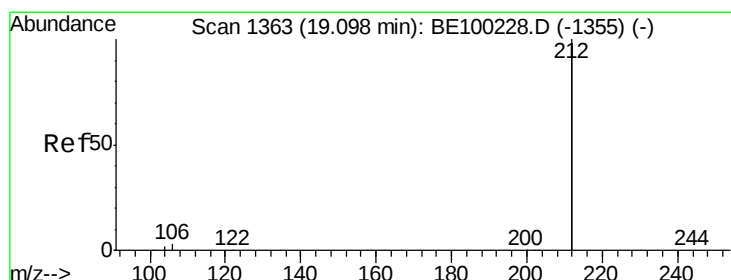
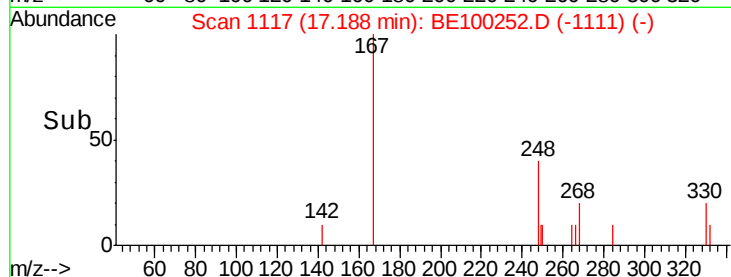
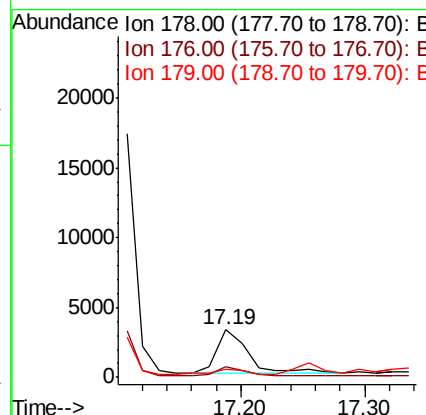
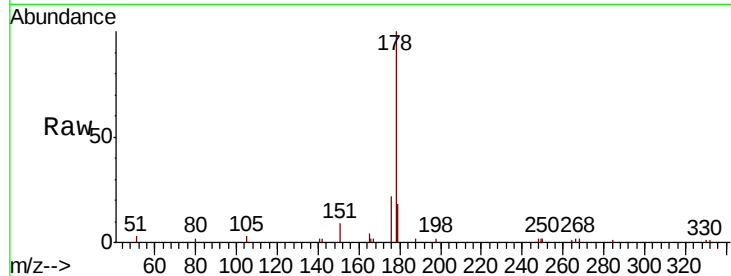
#24
 Anthracene
 Concen: 0.364 ng
 RT: 17.19 min Scan# 1117
 Delta R.T. -0.01 min
 Lab File: BE100252.D
 Acq: 29 Jun 2019 1:41

Instrument :
 BNA_E
 ClientSampleId :
 EXT-029-SW171-061719

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.3	22.9
179	12.8	12.2	18.2

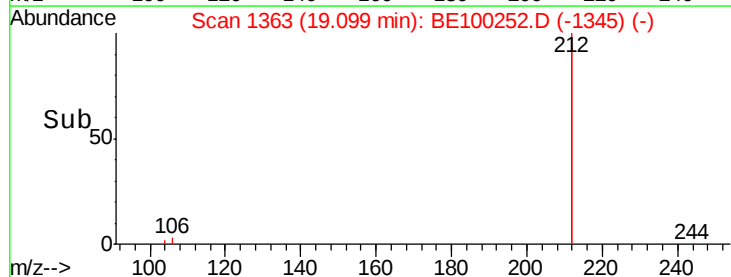
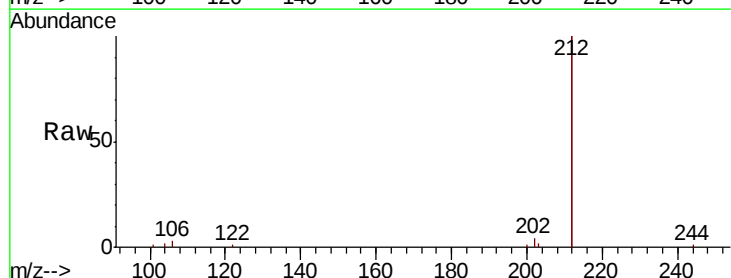
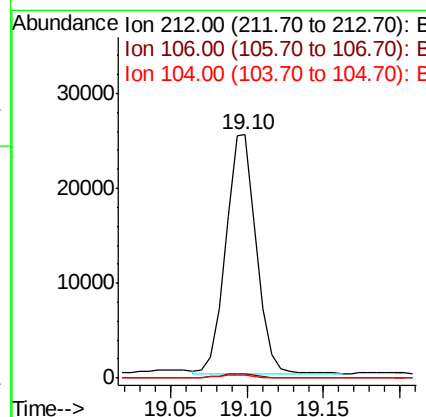
Manual Integrations
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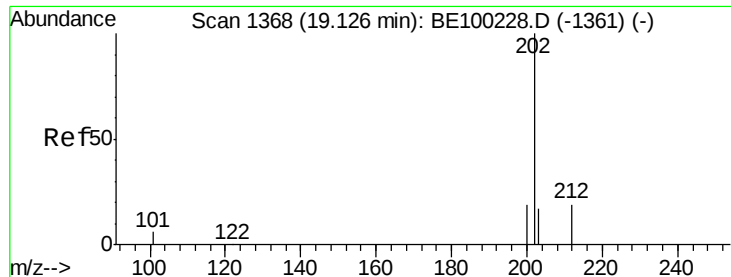
mohammad
 7/1/2019 3:07:50 PM



#25
 Fluoranthene-d10
 Concen: 0.345 ng
 RT: 19.10 min Scan# 1363
 Delta R.T. 0.00 min
 Lab File: BE100252.D
 Acq: 29 Jun 2019 1:41

Tgt Ion	Ratio	Lower	Upper
212	100		
106	1.6	1.3	1.9
104	0.9	0.8	1.2





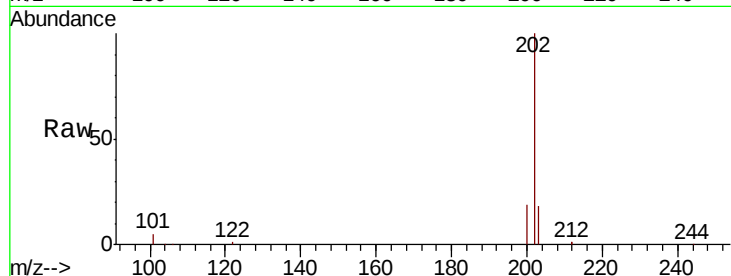
#26
Fluoranthene
Concen: 2.788 ng
RT: 19.13 min Scan# 1368
Delta R.T. 0.00 min
Lab File: BE100252.D
Acq: 29 Jun 2019 1:41

Instrument :
BNA_E
ClientSampleId :
EXT-029-SW171-061719

Tot Ion	Ratio	Lower	Upper
202	100		
101	5.7	4.6	7.0
203	17.7	13.7	20.5

Manual Integrations
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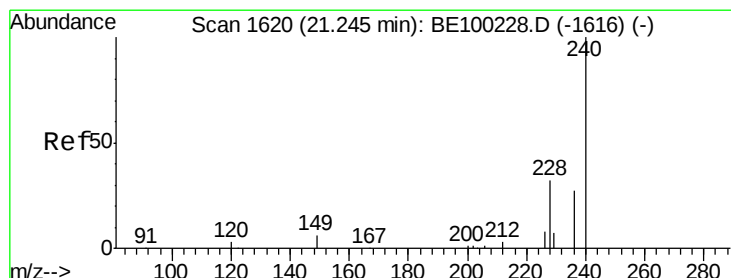
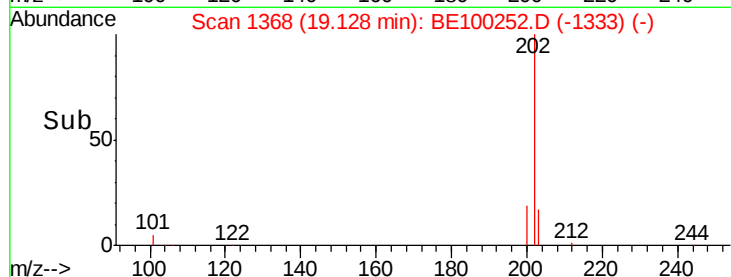
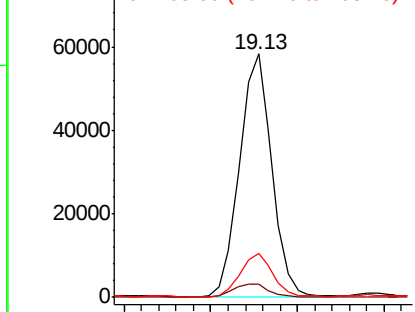


Abundance

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: 21.24 min Scan# 1619
Delta R.T. -0.00 min
Lab File: BE100252.D
Acq: 29 Jun 2019 1:41

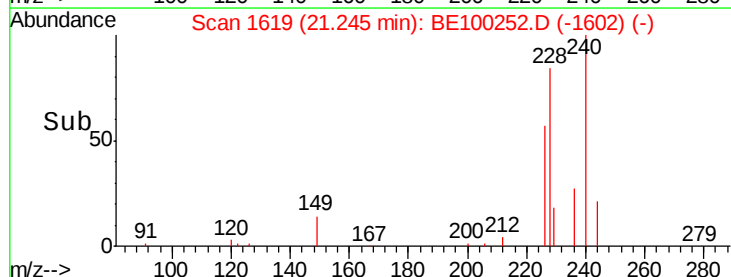
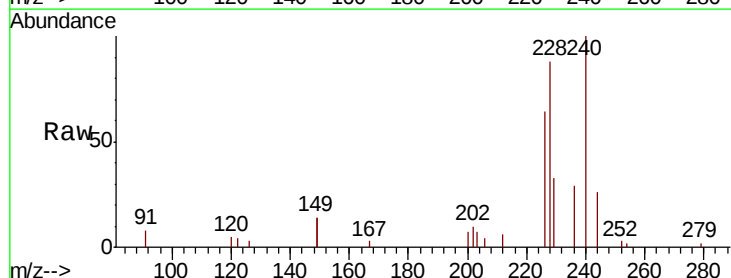
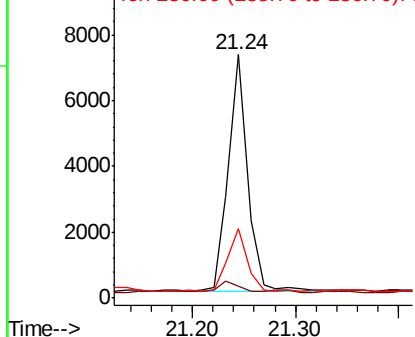
Tgt Ion	Ratio	Lower	Upper
240	100		
120	5.1	3.3	4.9#
236	28.8	22.6	34.0

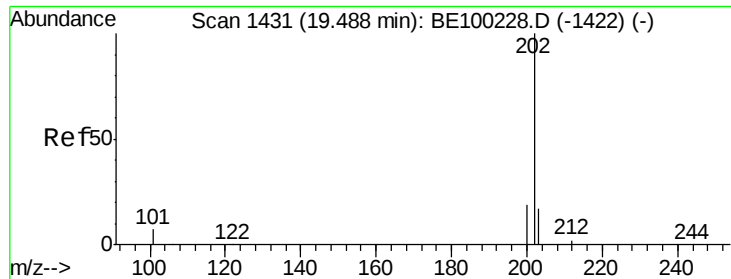
Abundance

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





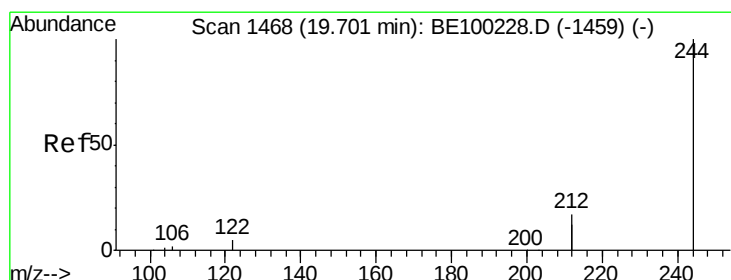
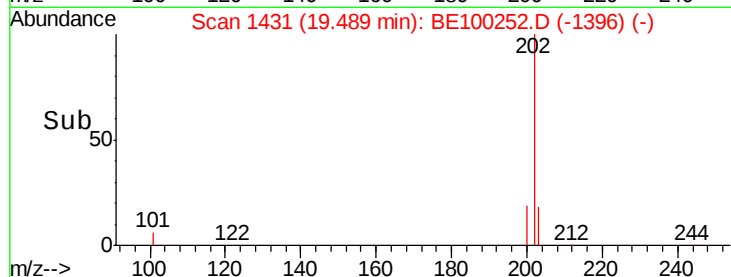
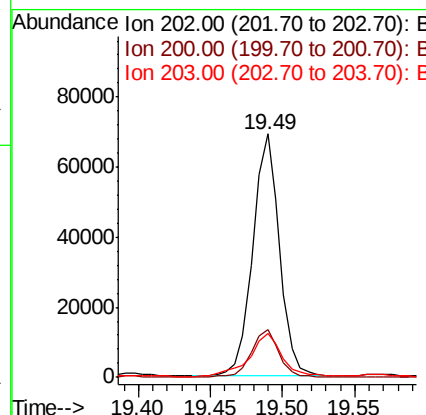
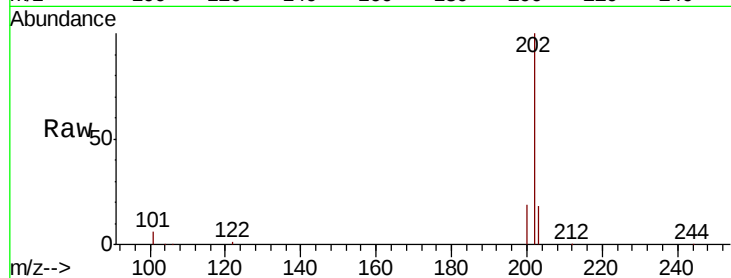
#28
Pvrene
Concen: 3.708 ng
RT: 19.49 min Scan# 1431
Delta R.T. 0.00 min
Lab File: BE100252.D
Acq: 29 Jun 2019 1:41

Instrument :
BNA_E
ClientSampleId :
EXT-029-SW171-061719

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	19.7	15.6	23.4
203	21.1	14.0	21.0

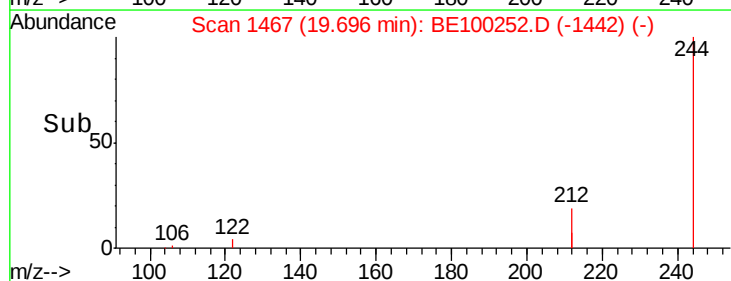
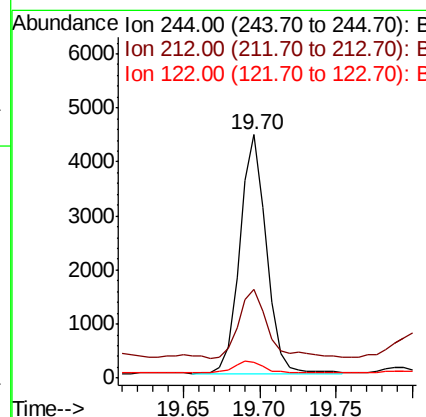
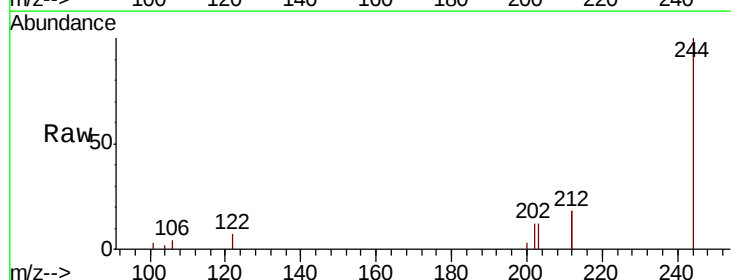
Manual Integrations
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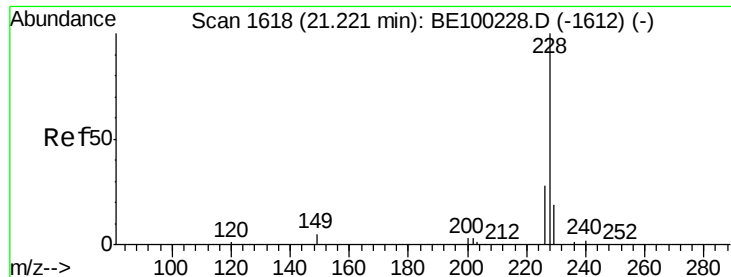
mohammad
7/1/2019 3:07:50 PM



#29
Terphenyl-d14
Concen: 0.279 ng
RT: 19.70 min Scan# 1467
Delta R.T. -0.00 min
Lab File: BE100252.D
Acq: 29 Jun 2019 1:41

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	36.4	27.3	40.9
122	6.5	4.7	7.1





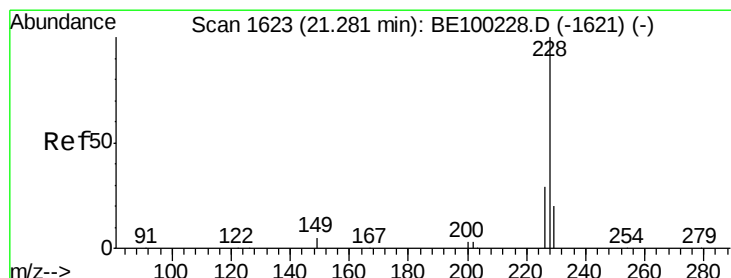
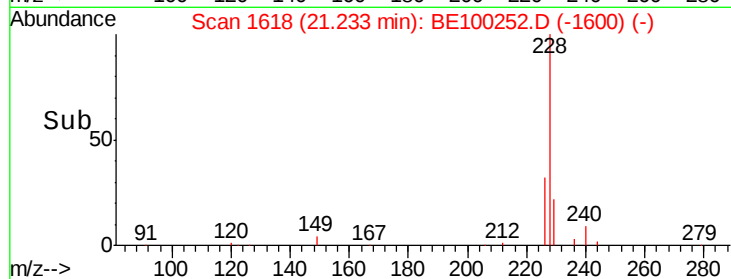
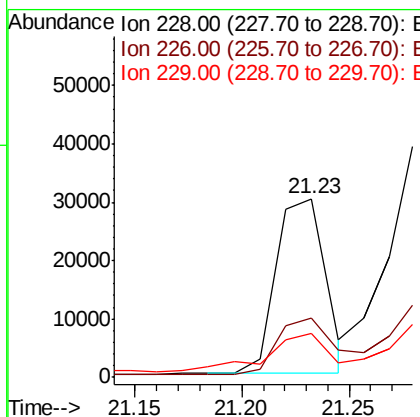
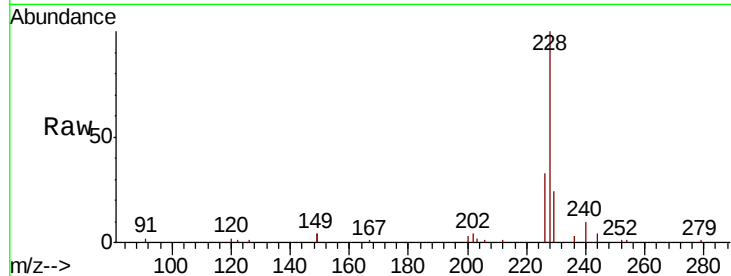
#30
Benzo(a)anthracene
Concen: 1.591 ng m
RT: 21.23 min Scan# 1618
Delta R.T. 0.01 min
Lab File: BE100252.D
Acq: 29 Jun 2019 1:41

Instrument :
BNA_E
ClientSampleId :
EXT-029-SW171-061719

Tot Ion	Ratio	Lower	Upper
228	100		
226	33.2	23.2	34.8
229	24.4	15.7	23.5

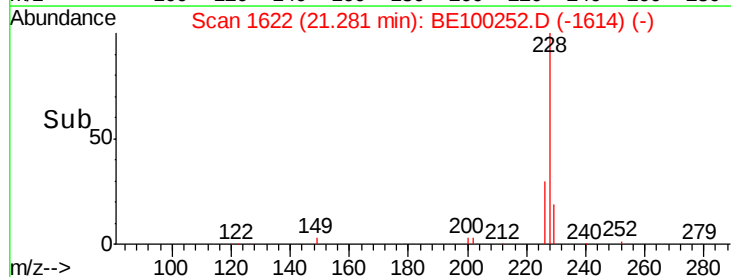
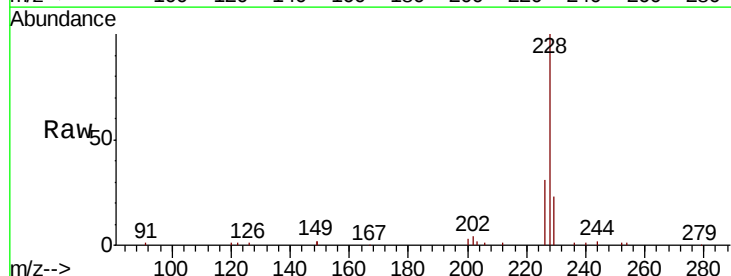
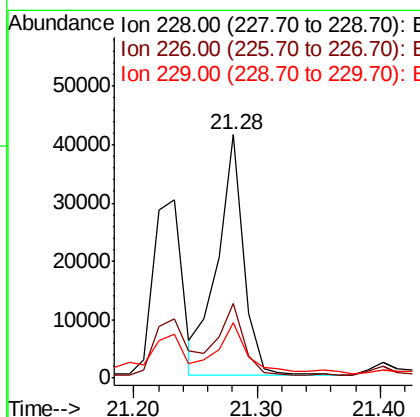
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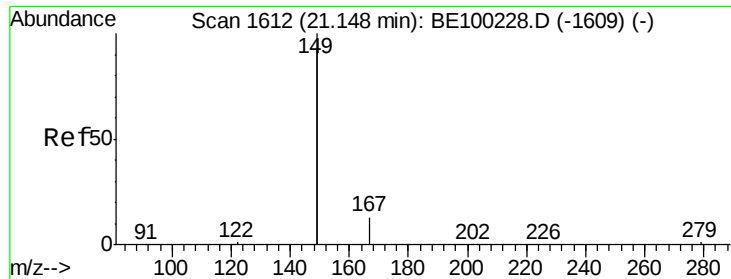
mohammad
7/1/2019 3:07:50 PM



#31
Chrysene
Concen: 1.982 ng
RT: 21.28 min Scan# 1622
Delta R.T. -0.00 min
Lab File: BE100252.D
Acq: 29 Jun 2019 1:41

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	23.9	35.9
229	22.9	16.5	24.7





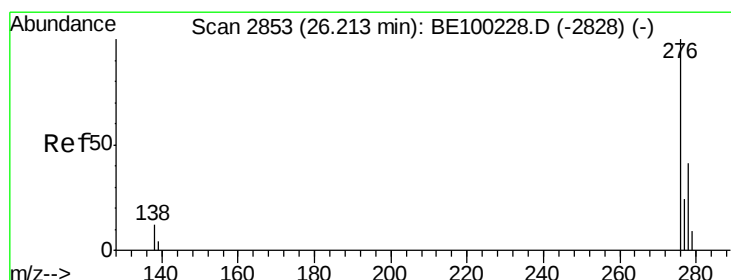
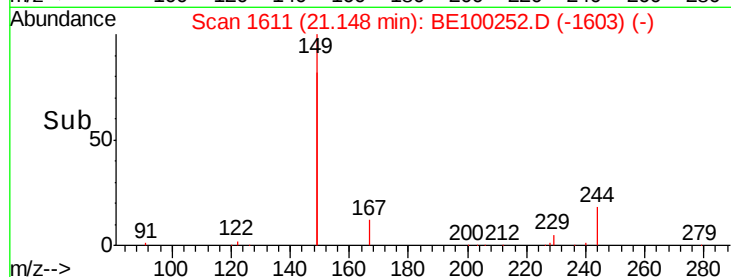
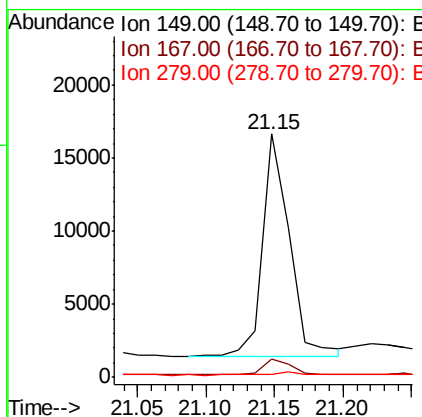
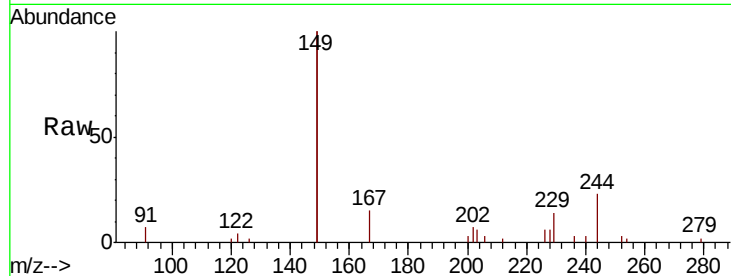
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.431 ng
 RT: 21.15 min Scan# 1611
 Delta R.T. 0.00 min
 Lab File: BE100252.D
 Acq: 29 Jun 2019 1:41

Instrument :
 BNA_E
 ClientSampleId :
 EXT-029-SW171-061719

Tot Ion:	149	Resp:	20911
Ion Ratio	Lower	Upper	
149	100		
167	6.6	5.8	8.8
279	1.7	1.1	1.7

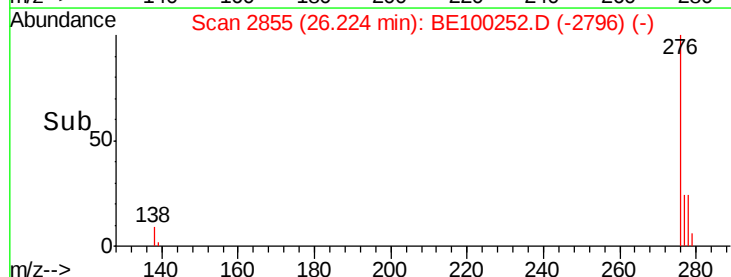
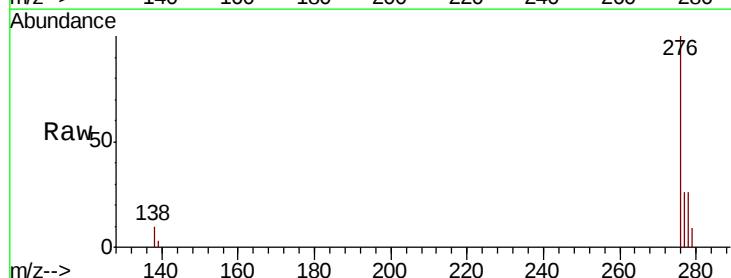
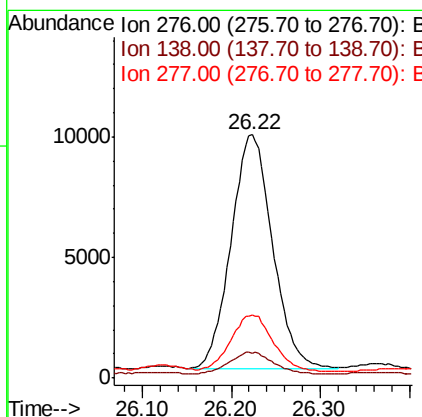
Manual Integrations
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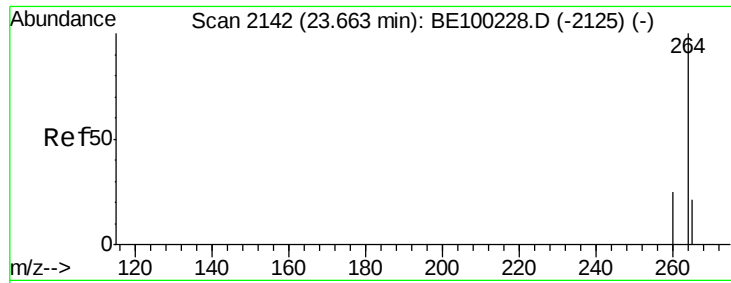
mohammad
 7/1/2019 3:07:50 PM



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.778 ng
 RT: 26.22 min Scan# 2855
 Delta R.T. 0.01 min
 Lab File: BE100252.D
 Acq: 29 Jun 2019 1:41

Tgt Ion:	276	Resp:	31279
Ion Ratio	Lower	Upper	
276	100		
138	9.8	9.4	14.0
277	24.8	19.2	28.8





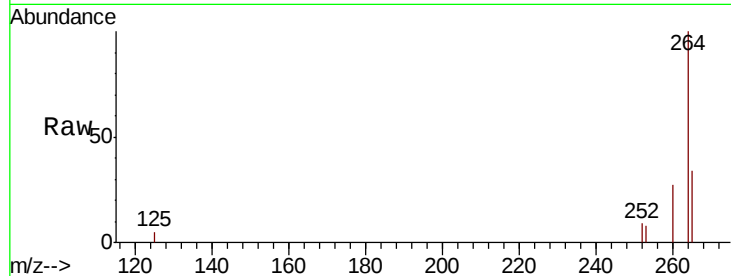
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.67 min Scan# 2143
Delta R.T. 0.01 min
Lab File: BE100252.D
Acq: 29 Jun 2019 1:41

Instrument :
BNA_E
ClientSampleId :
EXT-029-SW171-061719

Tot Ion	Ratio	Lower	Upper
264	100		
260	27.1	20.8	31.2
265	34.2	21.8	32.6

Manual Integrations
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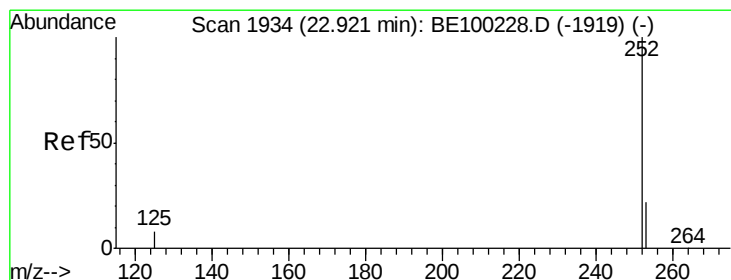
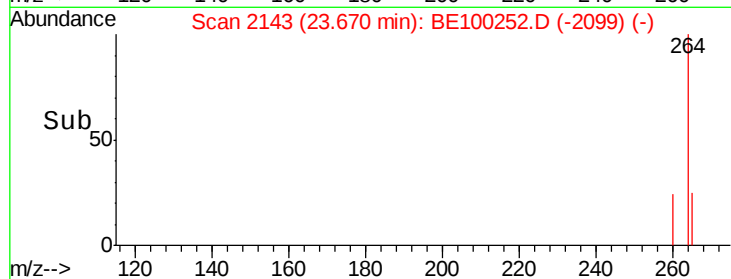
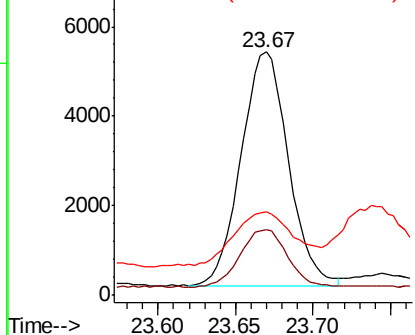


Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#35
Benzo(b)fluoranthene
Concen: 2.096 ng
RT: 22.93 min Scan# 1935
Delta R.T. 0.01 min
Lab File: BE100252.D
Acq: 29 Jun 2019 1:41

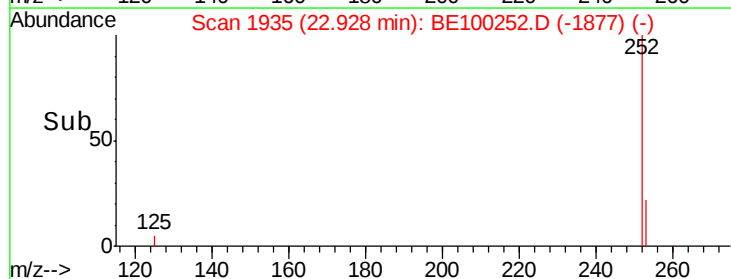
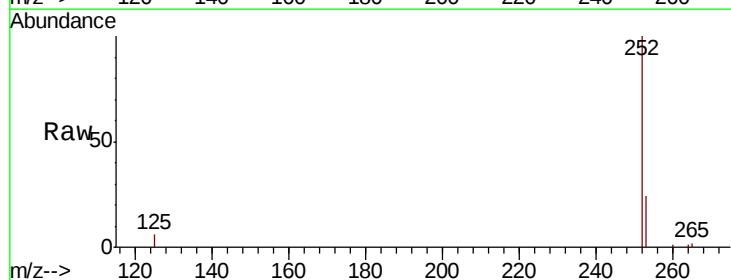
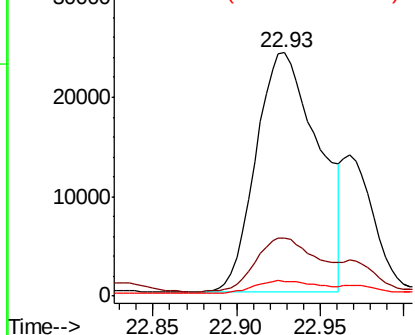
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	19.2	28.8
125	6.2	7.4	11.0

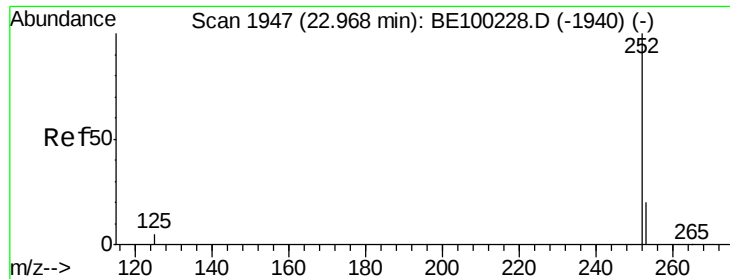
Abundance

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





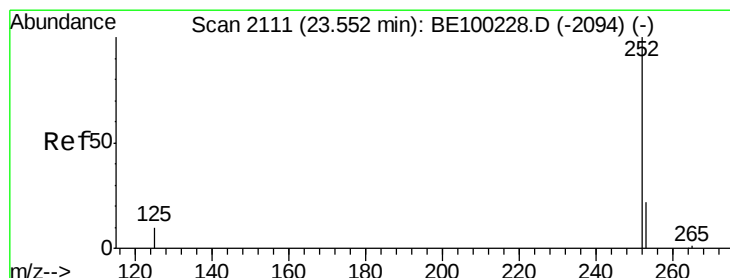
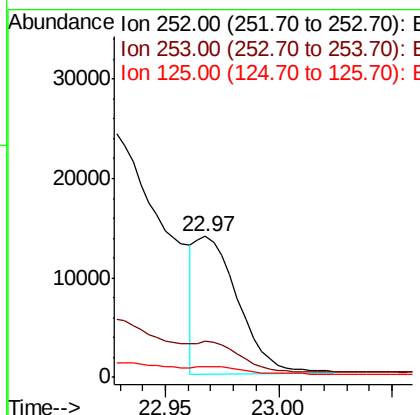
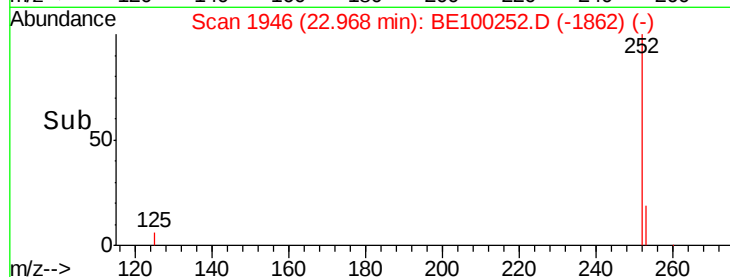
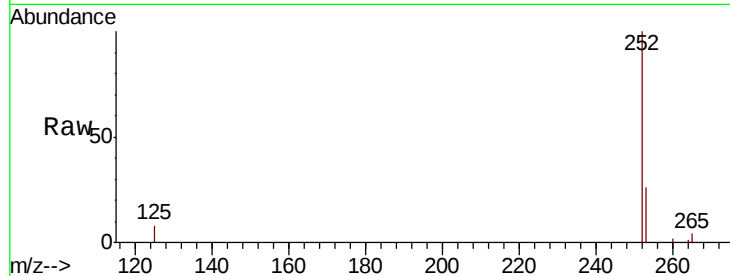
#36
Benzo(k)fluoranthene
Concen: 0.553 ng m
RT: 22.97 min Scan# 1946
Delta R.T. -0.00 min
Lab File: BE100252.D
Acq: 29 Jun 2019 1:41

Instrument :
BNA_E
ClientSampleId :
EXT-029-SW171-061719

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.7	17.9	26.9
125	7.5	5.0	7.4

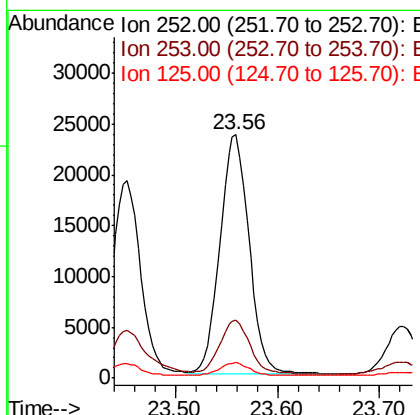
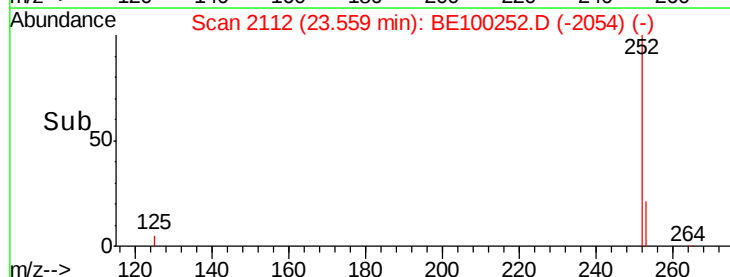
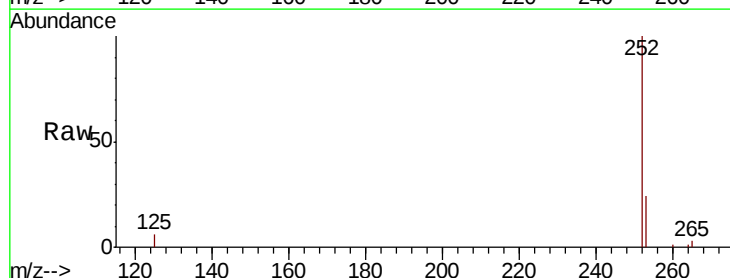
Manual Integrations
APPROVED

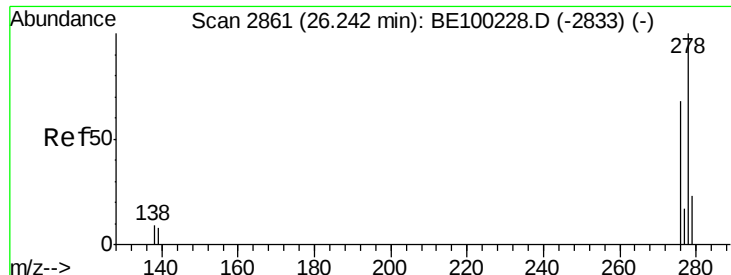
mohammad
7/1/2019 3:07:50 PM



#37
Benzo(a)pyrene
Concen: 1.563 ng
RT: 23.56 min Scan# 2112
Delta R.T. 0.01 min
Lab File: BE100252.D
Acq: 29 Jun 2019 1:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	19.6	29.4
125	6.2	9.0	13.6





#38

Dibenzo(a,h)anthracene

Concen: 0.316 ng

RT: 26.23 min Scan# 2858

Delta R.T. -0.01 min

Lab File: BE100252.D

Acq: 29 Jun 2019 1:41

Instrument :

BNA_E

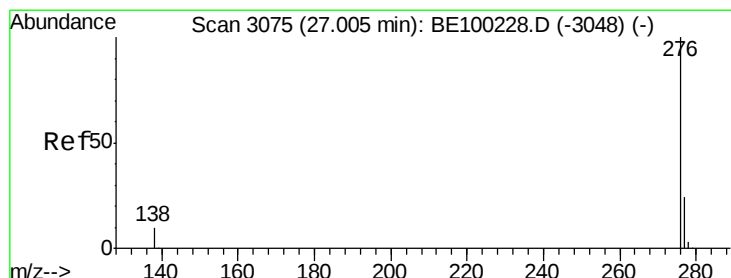
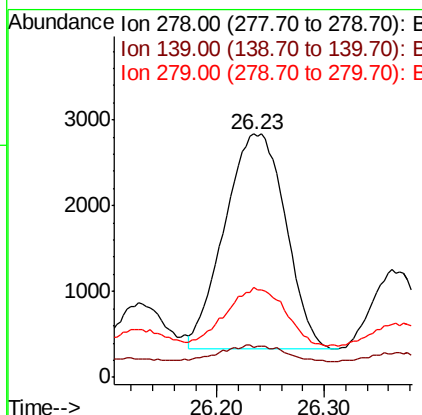
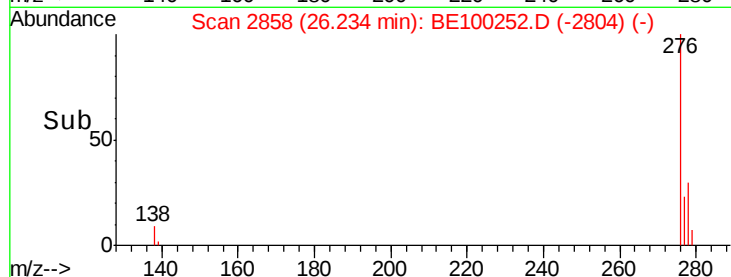
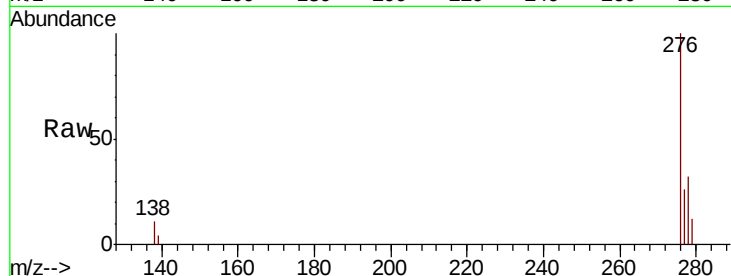
ClientSampleId :

EXT-029-SW171-061719

Tot Ion:	278	Resp:	9874
Ion Ratio	Lower	Upper	
278	100		
139	12.1	8.2	12.2
279	36.9	20.3	30.5#

Manual Integrations
APPROVED

mohammad
7/1/2019 3:07:50 PM



#39

Benzo(g,h,i)perylene

Concen: 1.078 ng

RT: 27.01 min Scan# 3076

Delta R.T. 0.01 min

Lab File: BE100252.D

Acq: 29 Jun 2019 1:41

Tgt Ion:	276	Resp:	34601
Ion Ratio	Lower	Upper	
276	100		
277	25.6	20.2	30.2
138	10.9	9.0	13.6

