

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101519\
 Data File : BE100649.D
 Acq On : 15 Oct 2019 14:47
 Operator : JU
 Sample : K4994-04DL 10X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-SW092-091819-2DL

Manual Integrations
 APPROVED

mohammad
 10/17/2019 7:56:54 AM

Quant Time: Oct 15 16:34:03 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE101019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Oct 10 14:01:52 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.86	152	4645	0.40	ng	0.00
7) Naphthalene-d8	10.64	136	21214	0.40	ng	0.00
13) Acenaphthene-d10	14.49	164	13867	0.40	ng	0.00
19) Phenanthrene-d10	17.20	188	29127	0.40	ng	0.00
27) Chrysene-d12	21.38	240	30187	0.40	ng	0.01
34) Perylene-d12	23.86	264	35119	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.46	112	395	0.03	ng	0.01
5) Phenol-d6	7.02	99	630	0.03	ng	0.01
8) Nitrobenzene-d5	9.00	82	528	0.04	ng	0.01
11) 2-Methylnaphthalene-d10	12.24	152	902	0.03	ng	0.01
14) 2,4,6-Tribromophenol	15.96	330	153	0.04	ng	0.00
15) 2-Fluorobiphenyl	13.12	172	1103	0.02	ng	0.00
25) Fluoranthene-d10	19.23	212	7554	0.02	ng	0.00
29) Terphenyl-d14	19.83	244	2019	0.03	ng	0.00

Target Compounds

						Qvalue
9) Naphthalene	10.69	128	19227	0.086	ng	99
12) 2-Methylnaphthalene	12.31	142	5266	0.138	ng	99
16) Acenaphthylene	14.20	152	12886m	0.216	ng	
17) Acenaphthene	14.54	154	6297	0.163	ng	95
18) Fluorene	15.51	166	13110	0.256	ng	# 89
23) Phenanthrene	17.24	178	368682	4.602	ng	100
24) Anthracene	17.33	178	36210	0.487	ng	98
26) Fluoranthene	19.26	202	425722	4.071	ng	98
28) Pyrene	19.62	202	637607	7.560	ng	# 95
30) Benzo(a)anthracene	21.35	228	287259	2.917	ng	94
31) Chrysene	21.41	228	318166	3.233	ng	97
32) Bis(2-ethylhexyl)phthalate	21.31	149	10764	0.052	ng	# 88
33) Indeno(1,2,3-cd)pyrene	26.48	276	121520	1.005	ng	97
35) Benzo(b)fluoranthene	23.10	252	274718	2.683	ng	97
36) Benzo(k)fluoranthene	23.14	252	83138m	0.789	ng	
37) Benzo(a)pyrene	23.75	252	225581	2.367	ng	98
38) Dibenzo(a,h)anthracene	26.49	278	37835	0.384	ng	# 80
39) Benzo(a,h,i)perylene	27.29	276	142427	1.437	ng	98

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

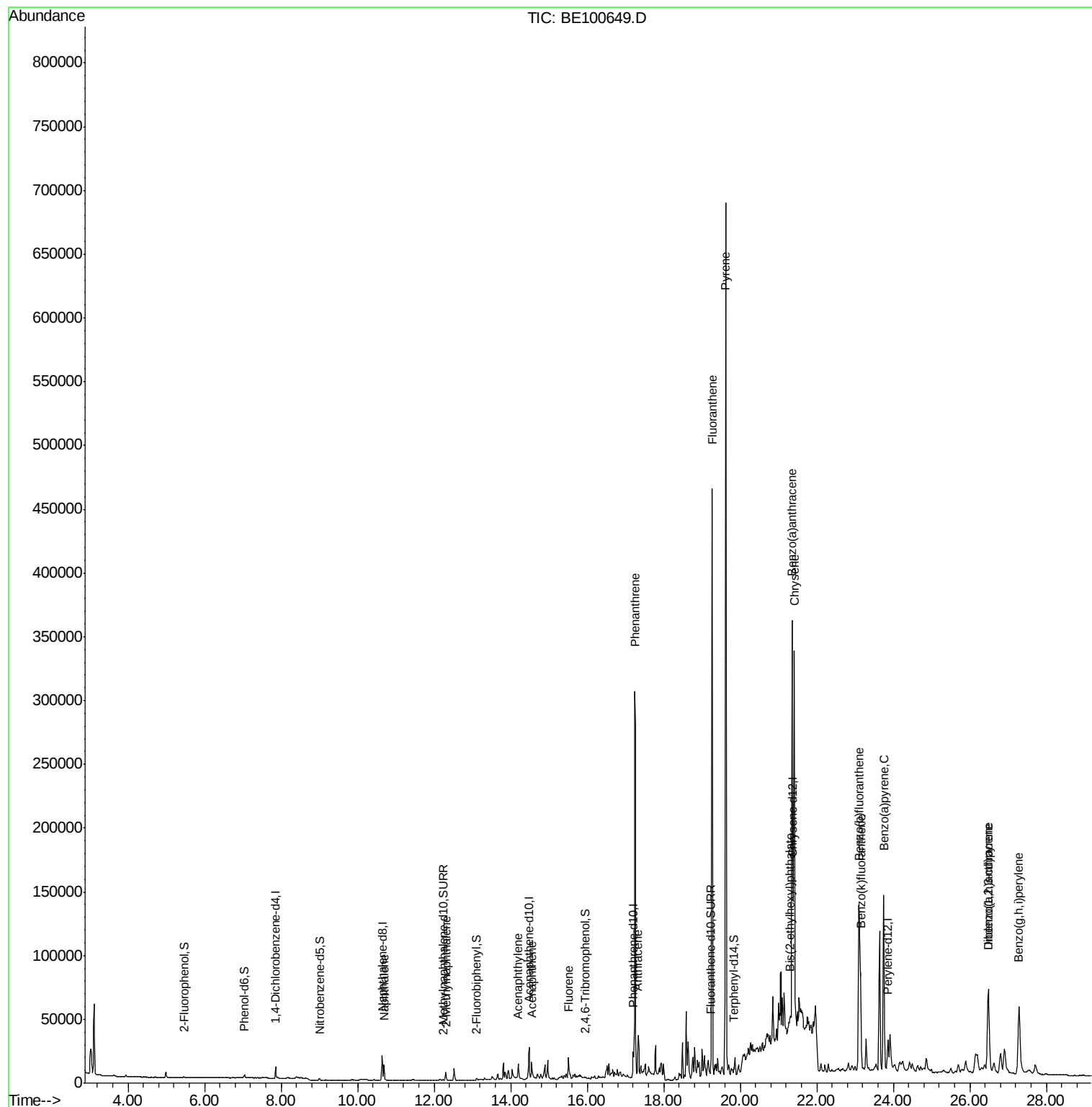
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101519\
Data File : BE100649.D
Acq On : 15 Oct 2019 14:47
Operator : JU
Sample : K4994-04DL 10X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
EXT-SW092-091819-2DL

Manual Integrations
APPROVED

mohammad
10/17/2019 7:56:54 AM

Quant Time: Oct 15 16:34:03 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE101019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 10 14:01:52 2019
Response via : Initial Calibration





#1

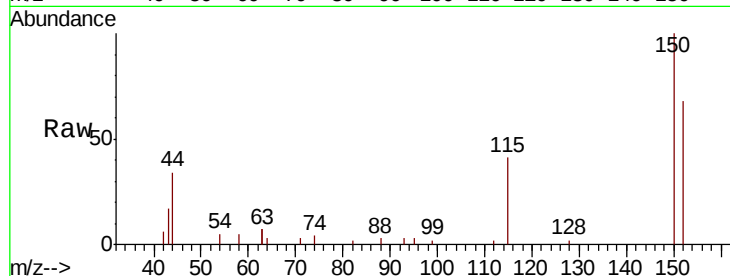
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.86 min Scan# 434
Delta R.T. 0.00 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Instrument :
BNA_E
ClientSampleId :
EXT-SW092-091819-2DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	148.0	120.7	181.1
115	60.4	48.0	72.0

Manual Integrations
APPROVED

mohammad
10/17/2019 7:56:54 AM

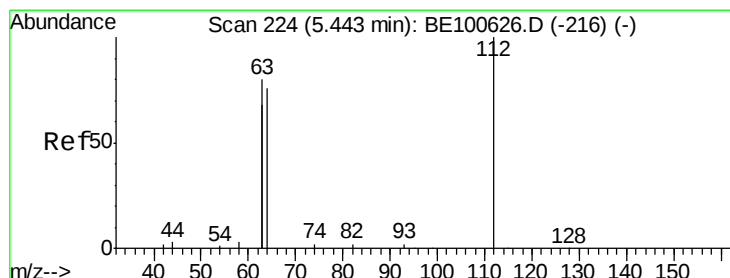
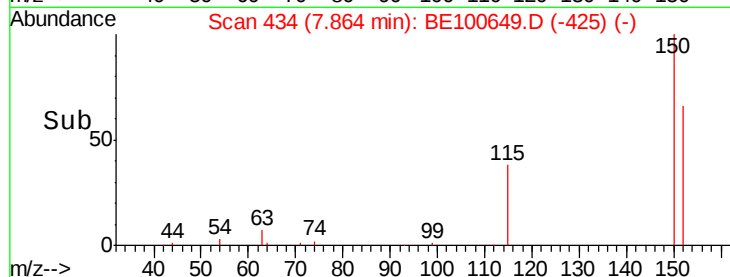
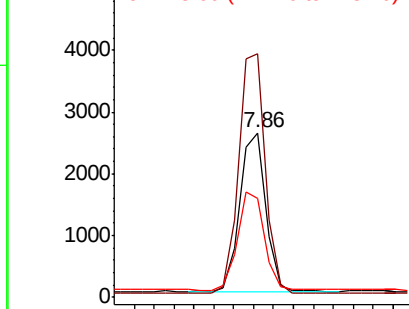


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

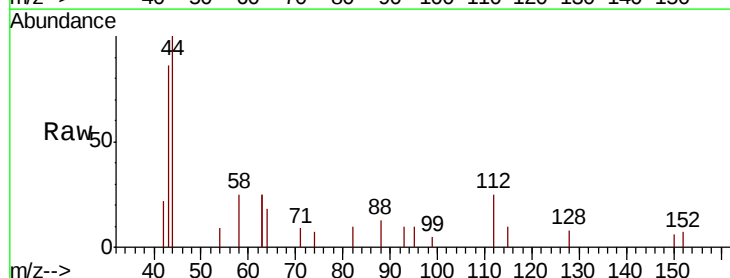
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.028 ng
RT: 5.46 min Scan# 225
Delta R.T. 0.01 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Tgt Ion	Ratio	Lower	Upper
112	100		
64	72.7	58.9	88.3
63	150.1	118.3	177.5

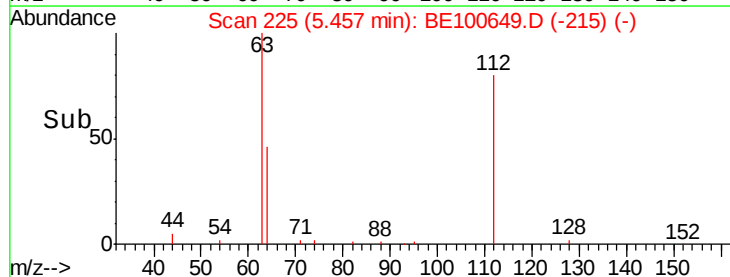
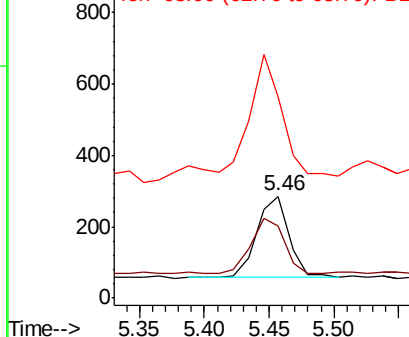


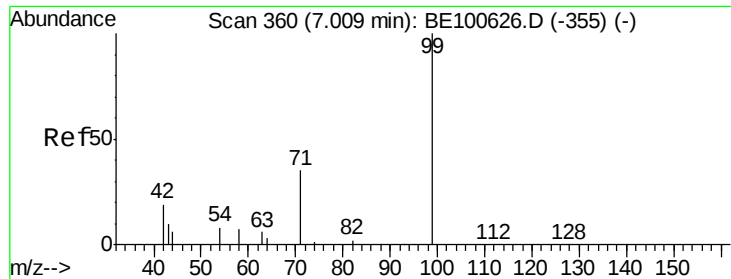
Abundance

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: 0.031 ng

RT: 7.02 min Scan# 361

Delta R.T. 0.01 min

Lab File: BE100649.D

Acq: 15 Oct 2019 14:47

Instrument :

BNA_E

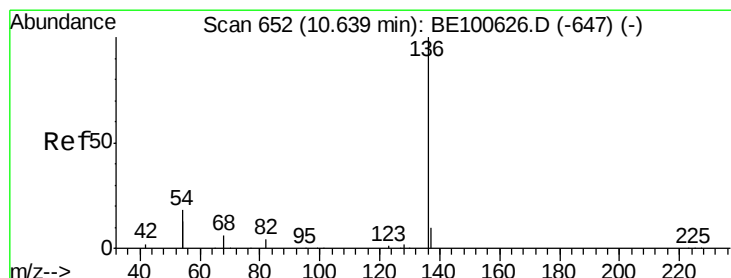
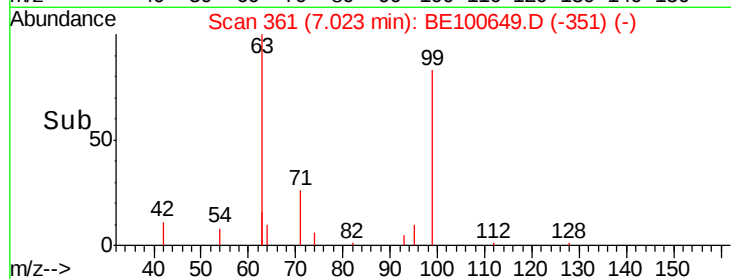
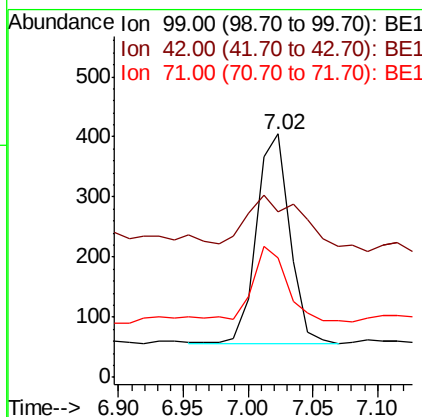
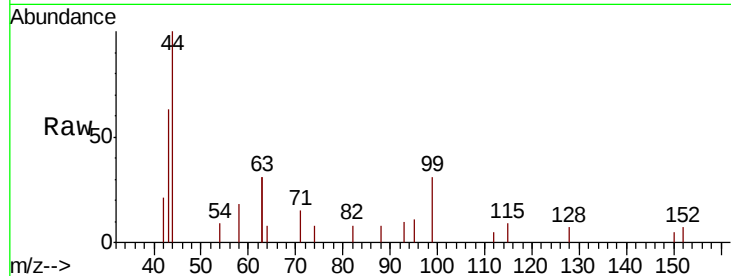
ClientSampleId :

EXT-SW092-091819-2DL

Tot Ion:	99	Resp:	630
Ion	Ratio	Lower	Upper
99	100		
42	45.6	19.4	29.2#
71	37.8	26.9	40.3

Manual Integrations
APPROVED

mohammad
10/17/2019 7:56:54 AM



#7

Naphthalene-d8

Concen: 0.400 ng

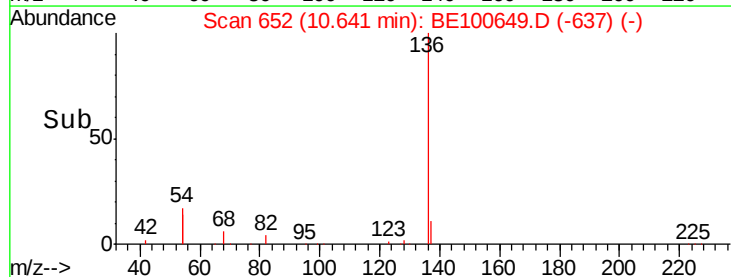
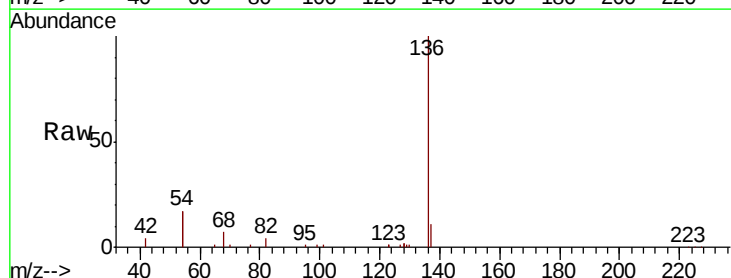
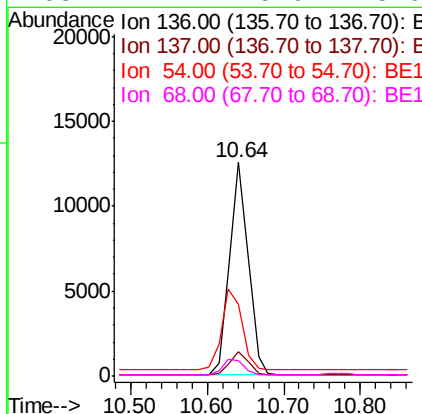
RT: 10.64 min Scan# 652

Delta R.T. 0.00 min

Lab File: BE100649.D

Acq: 15 Oct 2019 14:47

Tgt Ion:	136	Resp:	21214
Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.6	13.0
54	33.4	28.7	43.1
68	7.1	5.9	8.9





#8

Nitrobenzene-d5

Concen: 0.040 ng

RT: 9.00 min Scan# 526

Delta R.T. 0.01 min

Lab File: BE100649.D

Acq: 15 Oct 2019 14:47

Instrument :

BNA_E

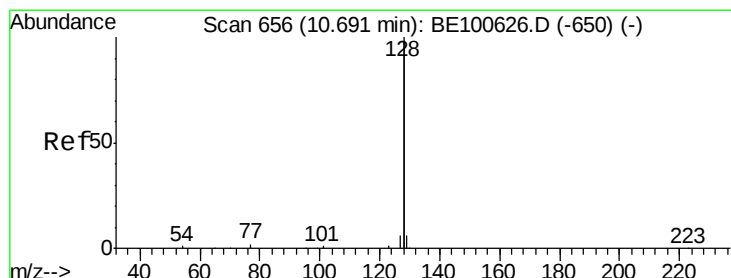
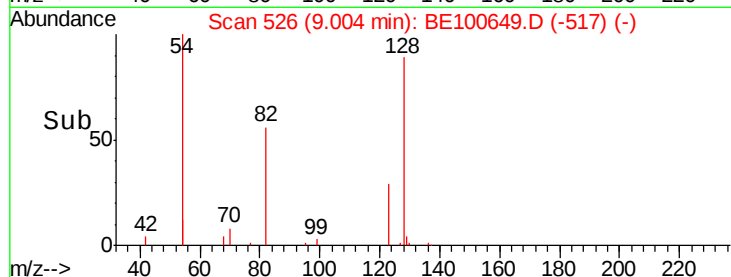
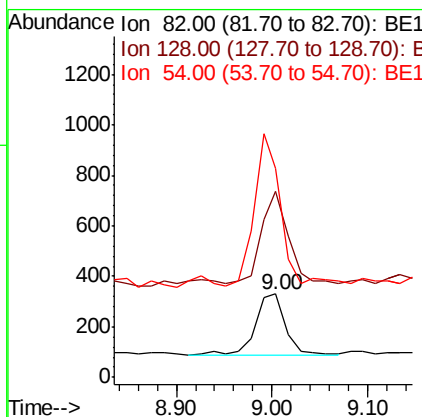
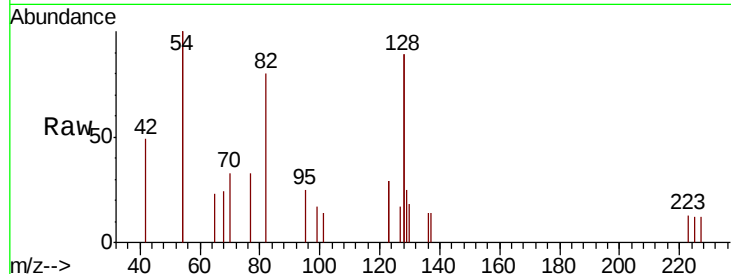
ClientSampleId :

EXT-SW092-091819-2DL

Tot Ion:	82	Resp:	528
Ion	Ratio	Lower	Upper
82	100		
128	223.6	90.7	136.1#
54	250.9	210.9	316.3

Manual Integrations
APPROVED

mohammad
10/17/2019 7:56:54 AM



#9

Naphthalene

Concen: 0.086 ng

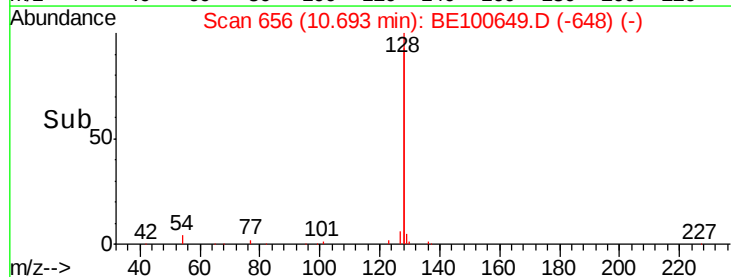
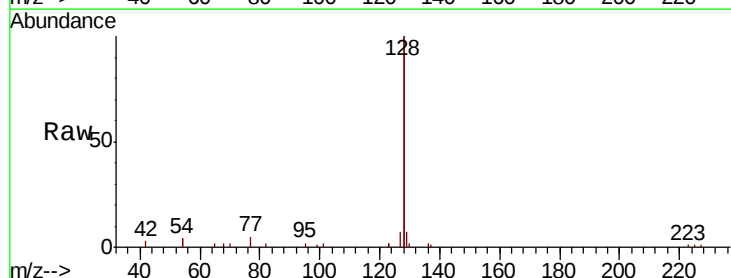
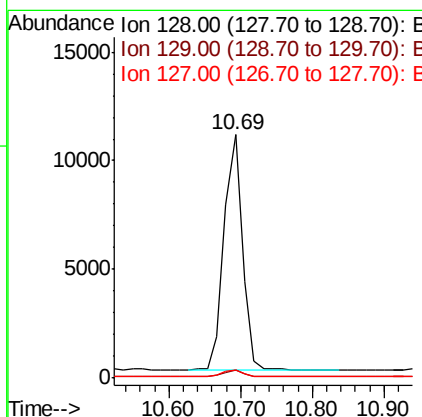
RT: 10.69 min Scan# 656

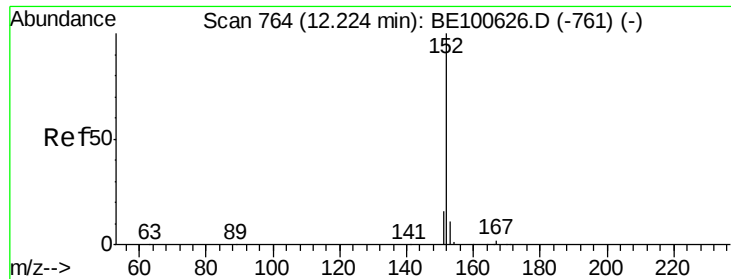
Delta R.T. 0.00 min

Lab File: BE100649.D

Acq: 15 Oct 2019 14:47

Tgt Ion:	128	Resp:	19227
Ion	Ratio	Lower	Upper
128	100		
129	3.3	2.4	3.6
127	3.5	2.6	3.8





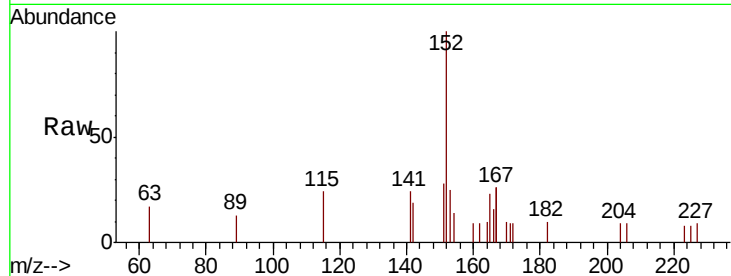
#11
2-Methylnaphthalene-d10
Concen: 0.027 ng
RT: 12.24 min Scan# 765
Delta R.T. 0.01 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Instrument :
BNA_E
ClientSampleId :
EXT-SW092-091819-2DL

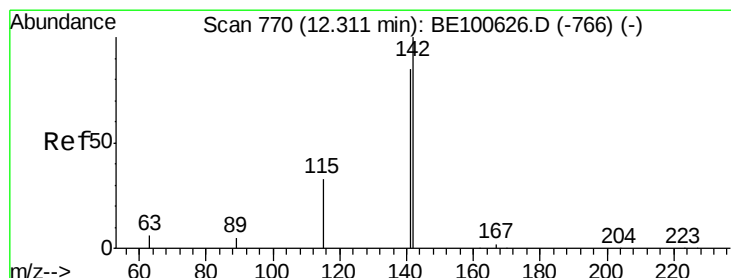
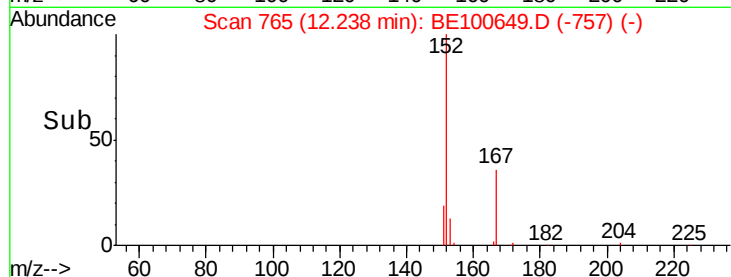
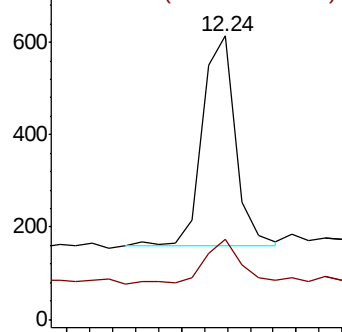
Tot Ion:152 Resp: 902
Ion Ratio Lower Upper
152 100
151 19.1 15.2 22.8

Manual Integrations
APPROVED

mohammad
10/17/2019 7:56:54 AM

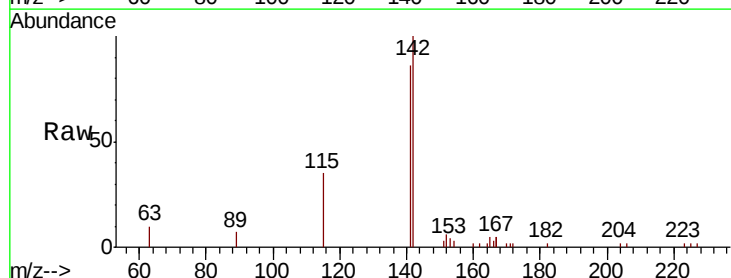


Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E

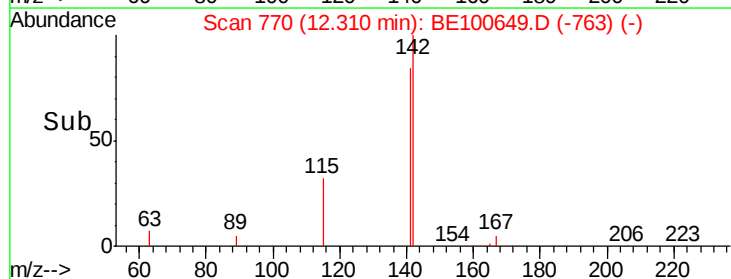
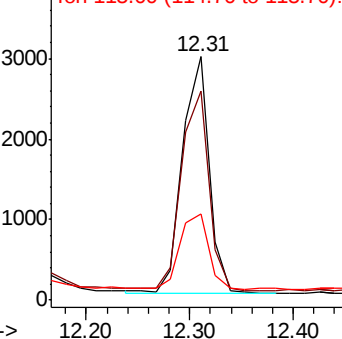


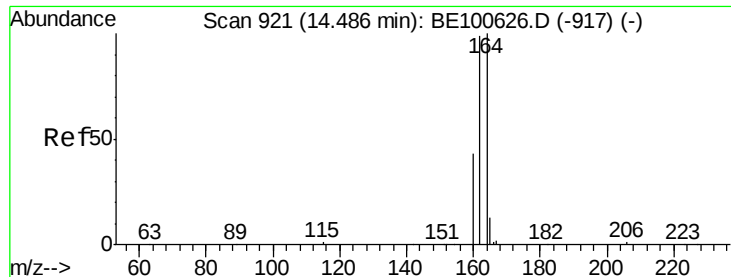
#12
2-Methylnaphthalene
Concen: 0.138 ng
RT: 12.31 min Scan# 770
Delta R.T. -0.00 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Tgt Ion:142 Resp: 5266
Ion Ratio Lower Upper
142 100
141 85.7 68.3 102.5
115 35.4 27.5 41.3



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





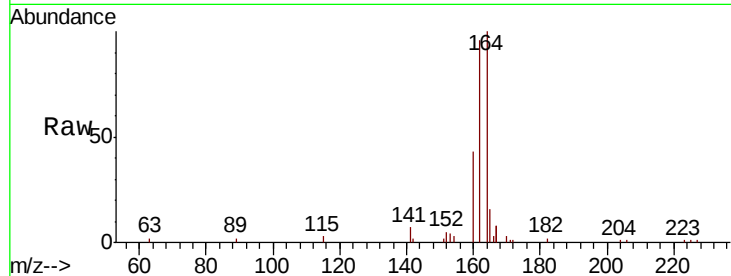
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.49 min Scan# 921
Delta R.T. -0.00 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Instrument :
BNA_E
ClientSampleId :
EXT-SW092-091819-2DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	96.4	79.1	118.7
160	43.5	34.7	52.1

Manual Integrations
APPROVED

mohammad
10/17/2019 7:56:54 AM

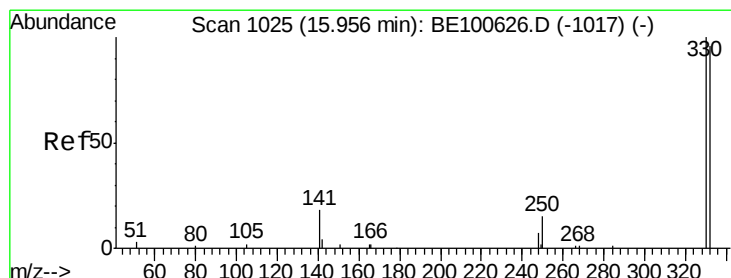
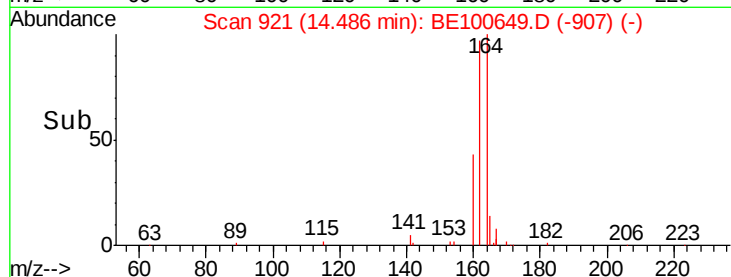
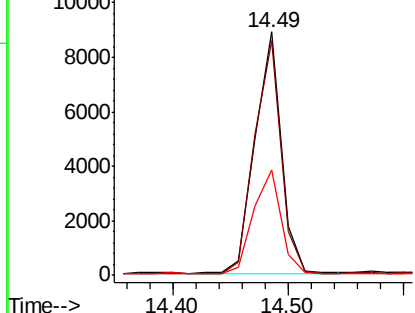


Abundance

Ion 164.00 (163.70 to 164.70): E

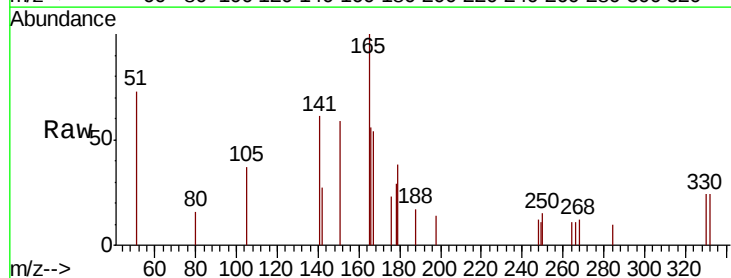
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14
2,4,6-Tribromophenol
Concen: 0.042 ng
RT: 15.96 min Scan# 1025
Delta R.T. -0.00 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Tgt Ion	Ratio	Lower	Upper
330	100		
332	89.5	75.2	112.8
141	369.3	37.5	56.3#

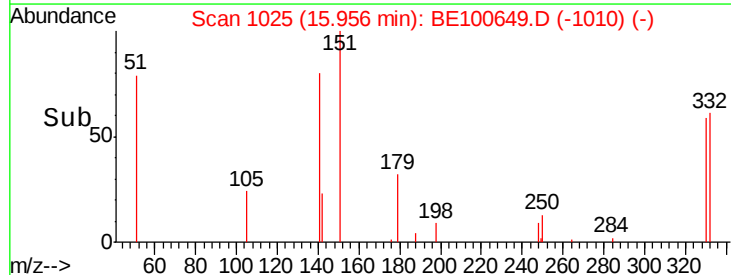
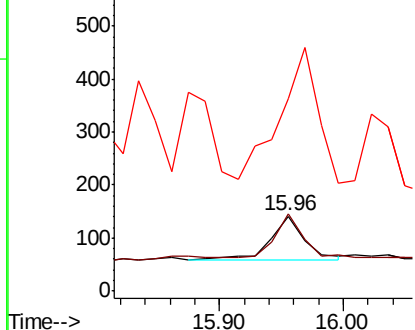


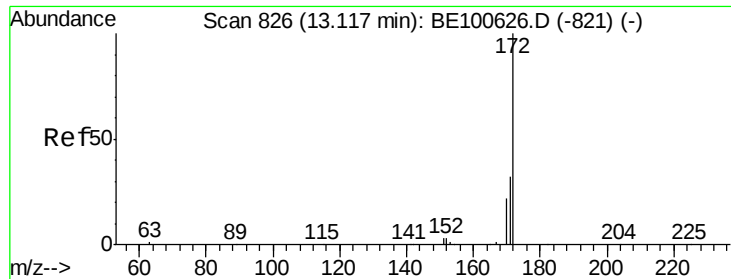
Abundance

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





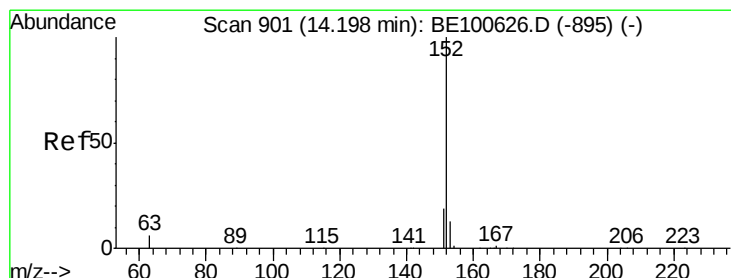
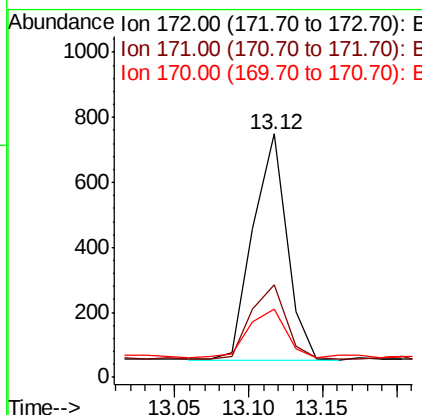
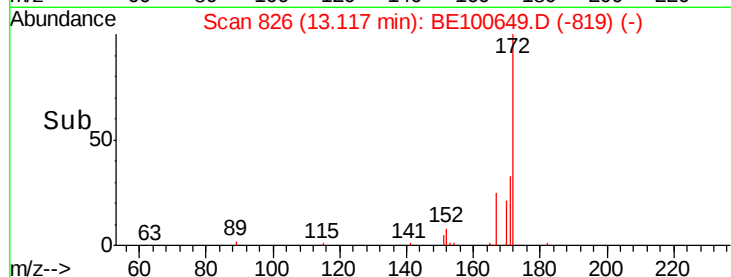
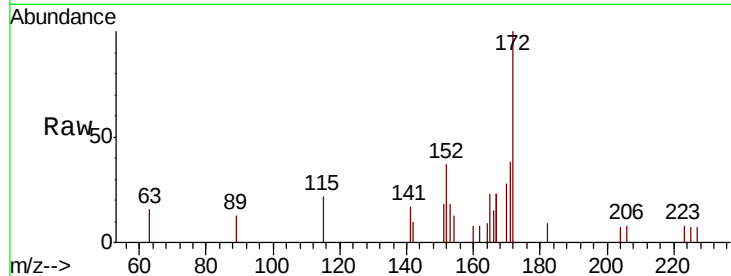
#15
2-Fluorobiphenyl
Concen: 0.022 ng
RT: 13.12 min Scan# 826
Delta R.T. -0.00 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Instrument :
BNA_E
ClientSampleId :
EXT-SW092-091819-2DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	38.2	26.2	39.4
170	28.0	17.5	26.3

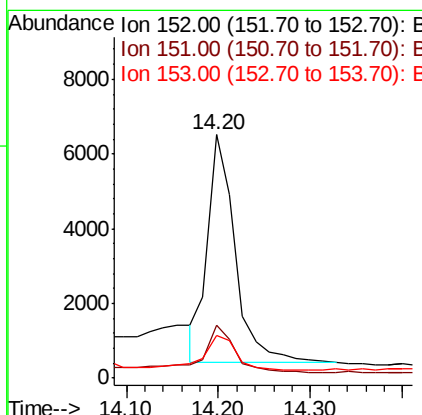
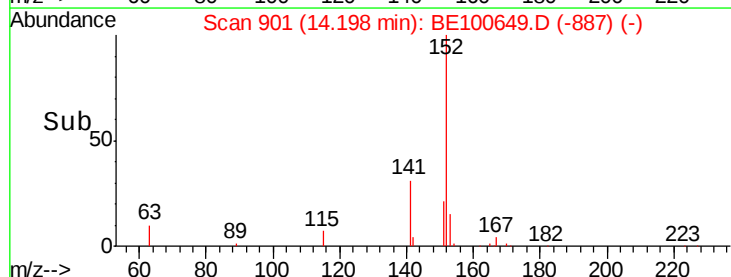
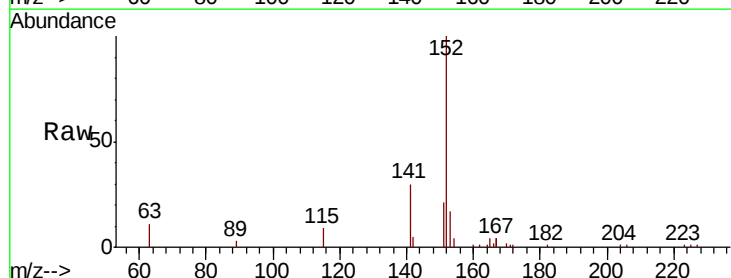
Manual Integrations
APPROVED

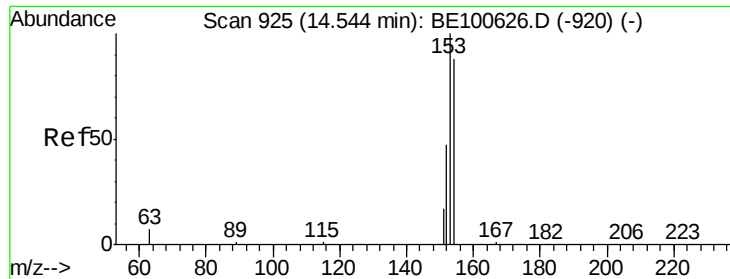
mohammad
10/17/2019 7:56:54 AM



#16
Acenaphthylene
Concen: 0.216 ng m
RT: 14.20 min Scan# 901
Delta R.T. -0.00 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Tgt Ion	Ratio	Lower	Upper
152	100		
151	26.1	15.6	23.4
153	19.5	10.5	15.7





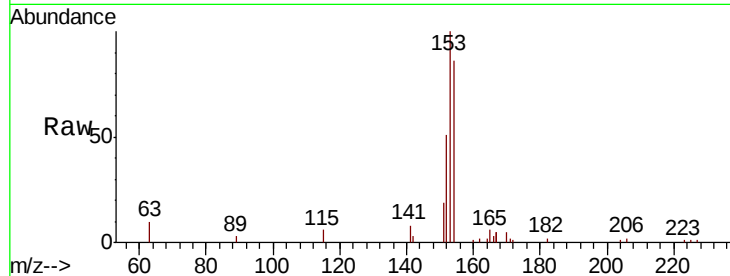
#17
Acenaphthene
Concen: 0.163 ng
RT: 14.54 min Scan# 925
Delta R.T. -0.00 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Instrument :
BNA_E
ClientSampleId :
EXT-SW092-091819-2DL

Tot Ion	Ratio	Lower	Upper
154	100		
153	119.9	91.4	137.2
152	59.4	44.0	66.0

Manual Integrations
APPROVED

mohammad
10/17/2019 7:56:54 AM

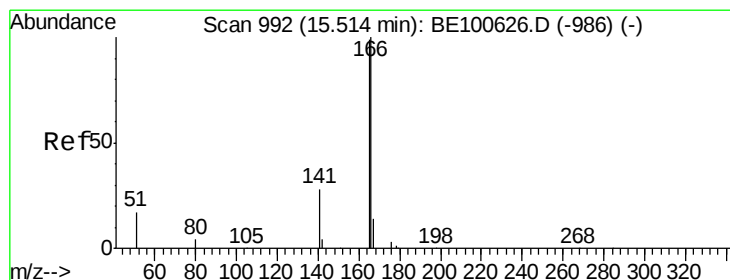
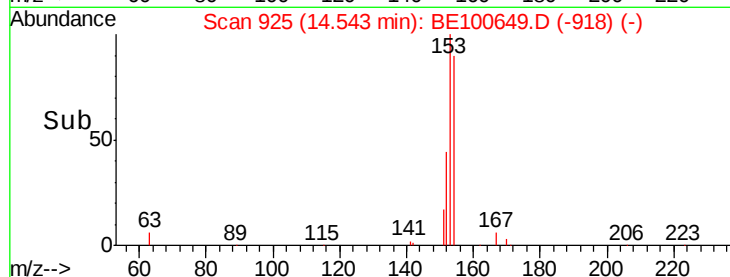
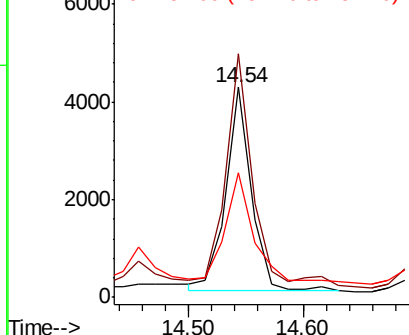


Abundance

Ion 154.00 (153.70 to 154.70): E

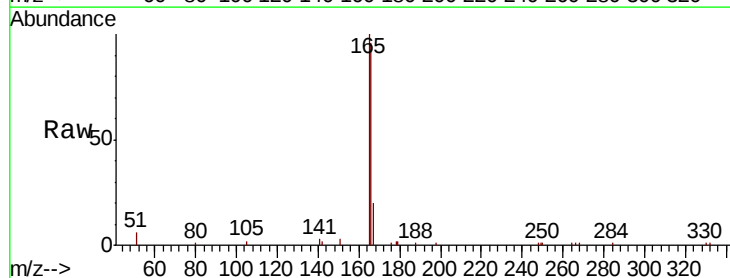
Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#18
Fluorene
Concen: 0.256 ng
RT: 15.51 min Scan# 992
Delta R.T. -0.00 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Tgt Ion	Ratio	Lower	Upper
166	100		
165	109.0	78.9	118.3
167	18.7	10.9	16.3#

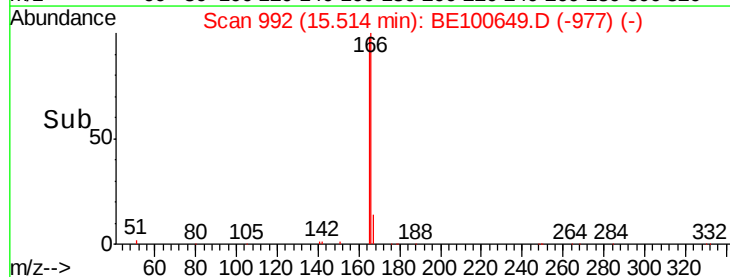
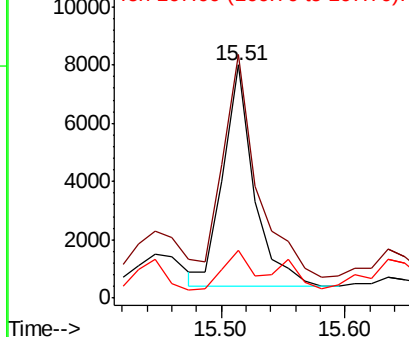


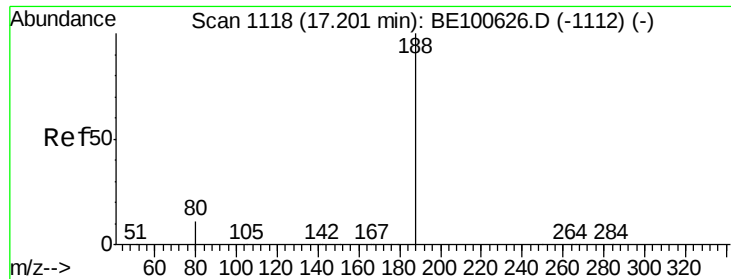
Abundance

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





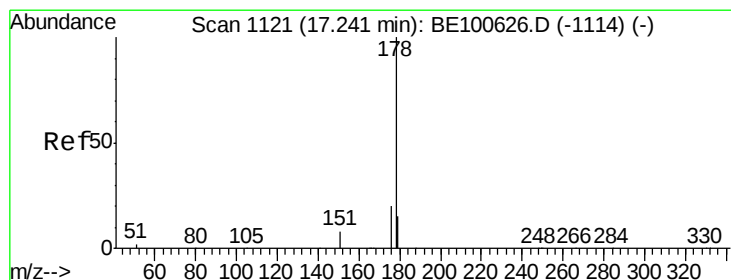
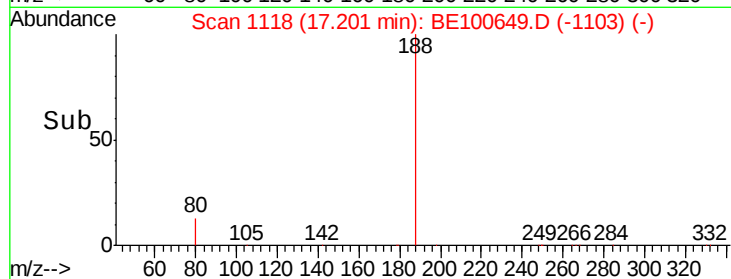
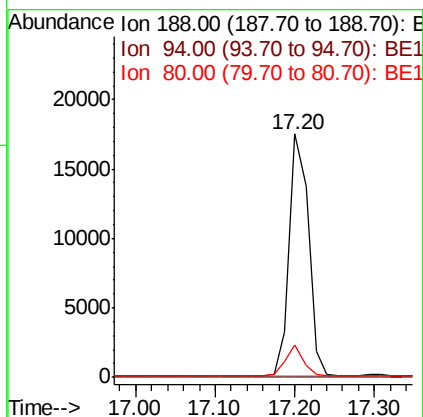
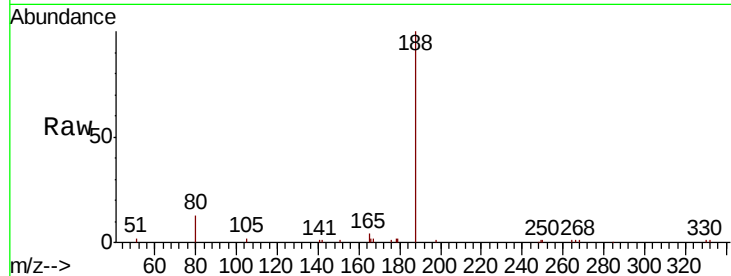
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.20 min Scan# 1118
Delta R.T. -0.00 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Instrument :
BNA_E
ClientSampleId :
EXT-SW092-091819-2DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	29127		
94	0.0	0.0	0.0	0.0
80	13.5	9.4	14.2	

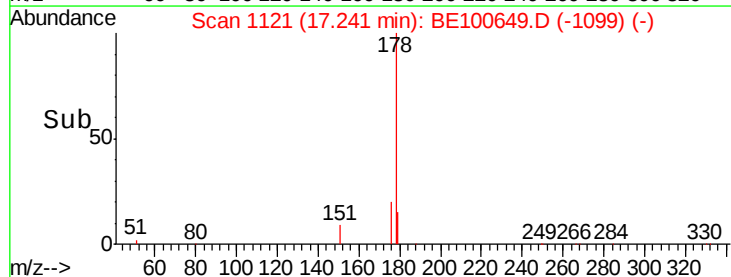
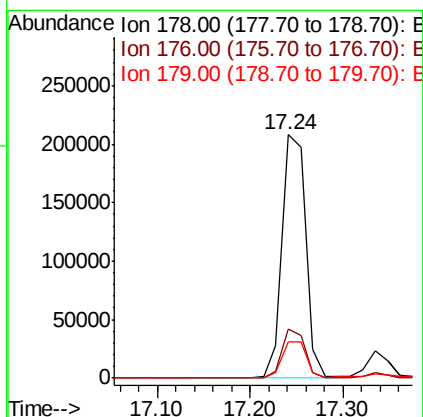
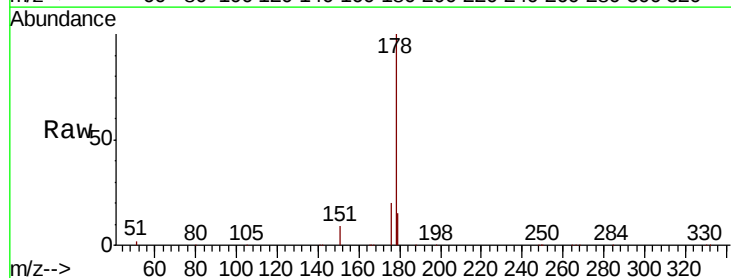
Manual Integrations
APPROVED

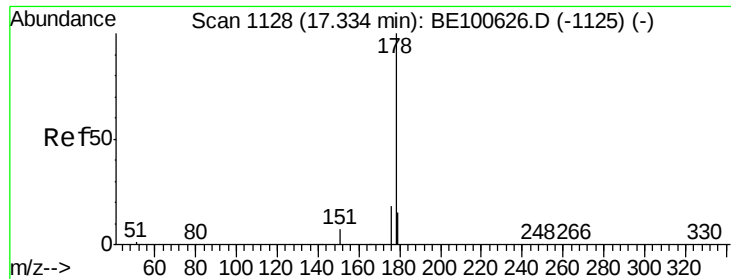
mohammad
10/17/2019 7:56:54 AM



#23
Phenanthrene
Concen: 4.602 ng
RT: 17.24 min Scan# 1121
Delta R.T. -0.00 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	368682		
176	19.3	15.6	23.4	
179	15.5	12.4	18.6	





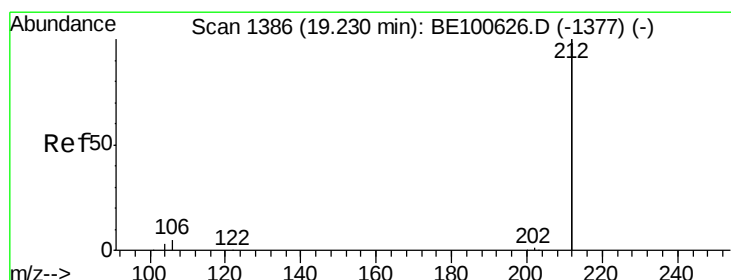
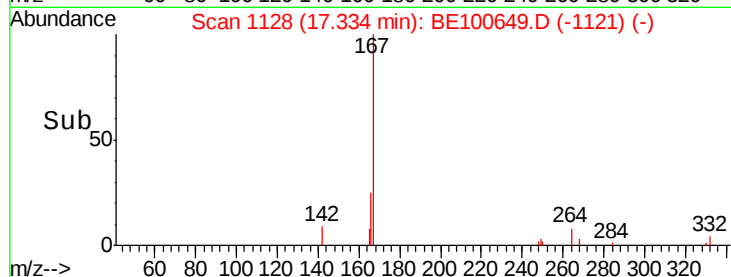
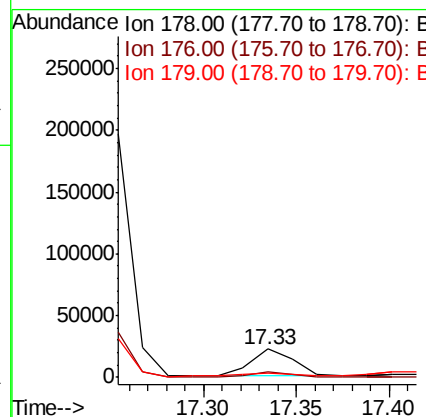
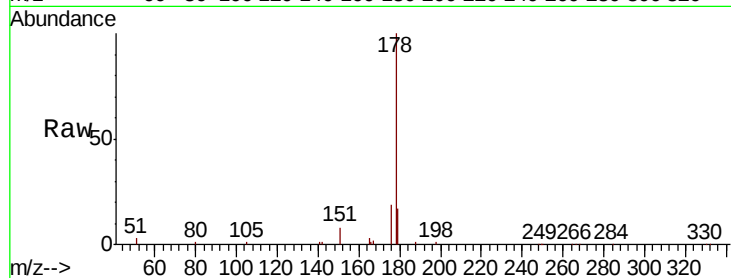
#24
 Anthracene
 Concen: 0.487 ng
 RT: 17.33 min Scan# 1128
 Delta R.T. -0.00 min
 Lab File: BE100649.D
 Acq: 15 Oct 2019 14:47

Instrument :
 BNA_E
 ClientSampleId :
 EXT-SW092-091819-2DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.5	21.7
179	14.2	12.4	18.6

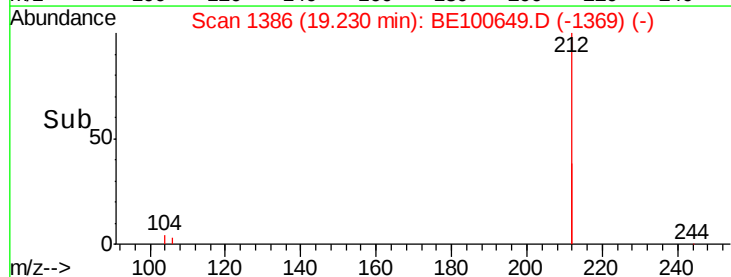
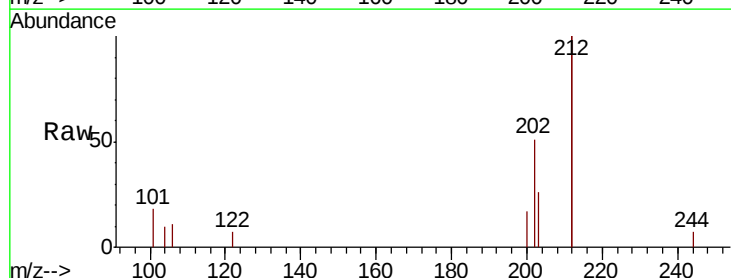
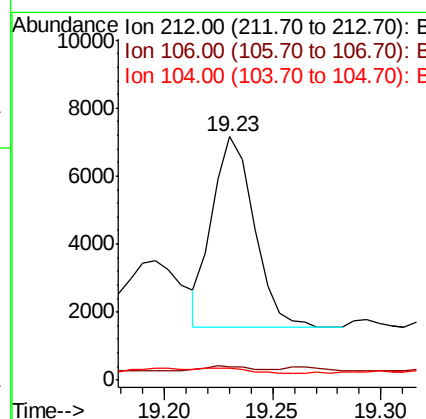
Manual Integrations
 APPROVED

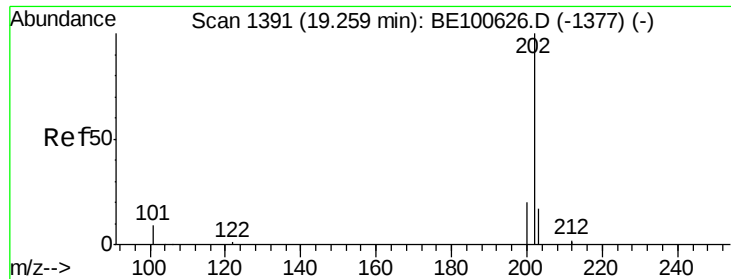
mohammad
 10/17/2019 7:56:54 AM



#25
 Fluoranthene-d10
 Concen: 0.020 ng
 RT: 19.23 min Scan# 1386
 Delta R.T. -0.00 min
 Lab File: BE100649.D
 Acq: 15 Oct 2019 14:47

Tgt Ion	Ratio	Lower	Upper
212	100		
106	2.8	2.2	3.4
104	2.7	1.3	1.9#





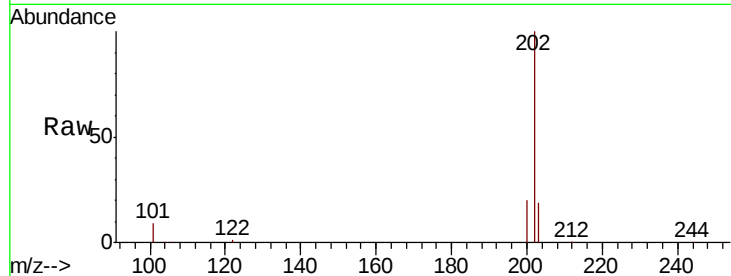
#26
Fluoranthene
Concen: 4.071 ng
RT: 19.26 min Scan# 1392
Delta R.T. 0.01 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Instrument :
BNA_E
ClientSampleId :
EXT-SW092-091819-2DL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	10.9	8.4	12.6
203	18.0	13.8	20.6

Manual Integrations
APPROVED

mohammad
10/17/2019 7:56:54 AM

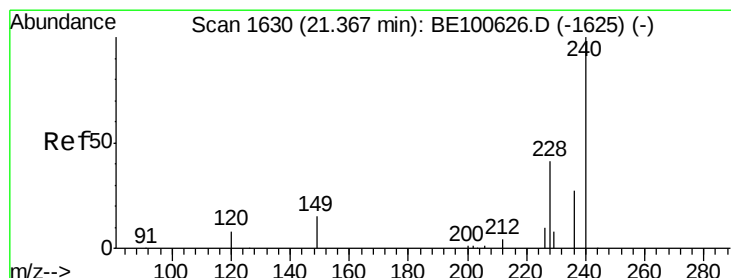
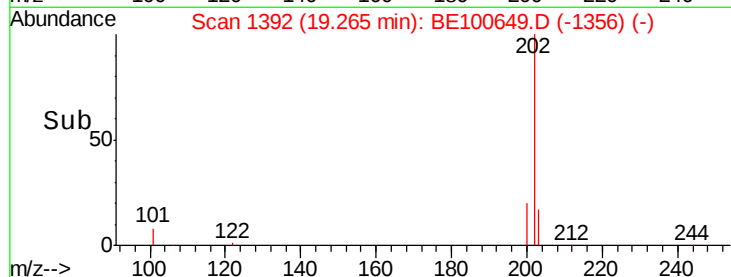
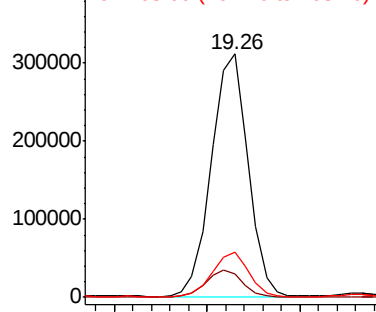


Abundance

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: 21.38 min Scan# 1631
Delta R.T. 0.01 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

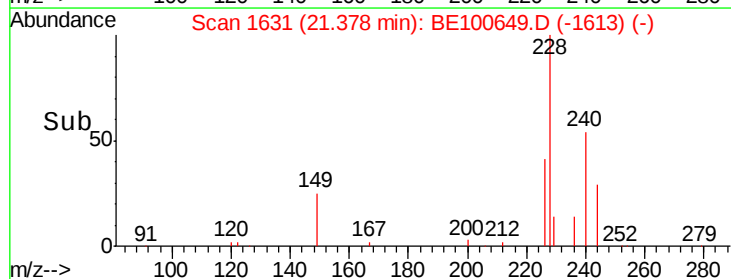
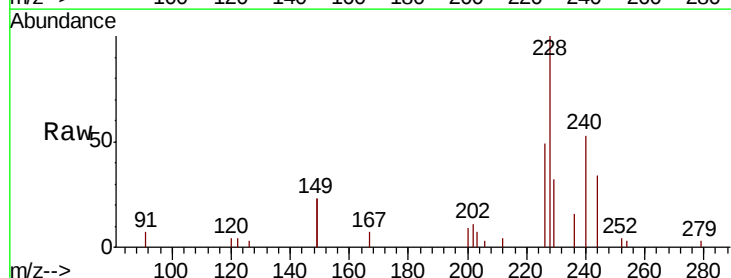
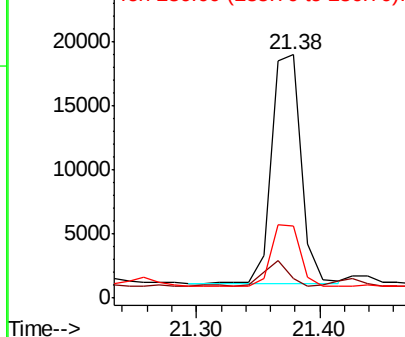
Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	7.9	7.4	11.0
236	29.5	21.7	32.5

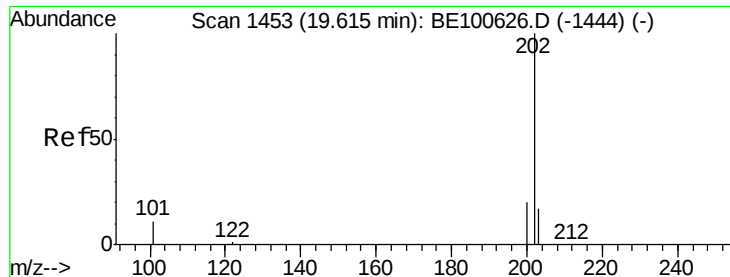
Abundance

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





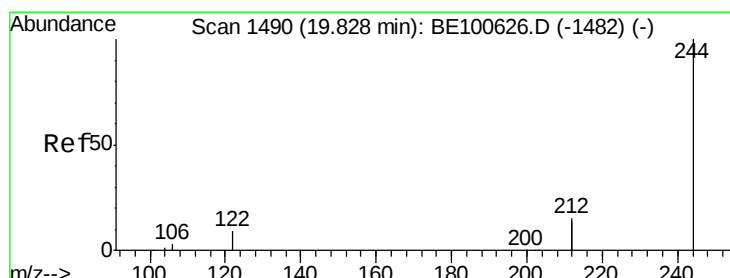
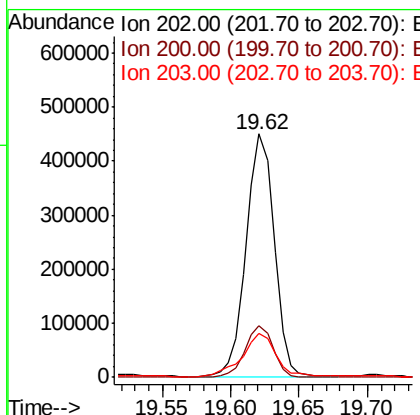
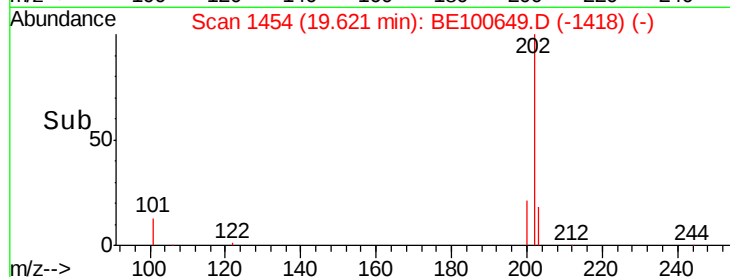
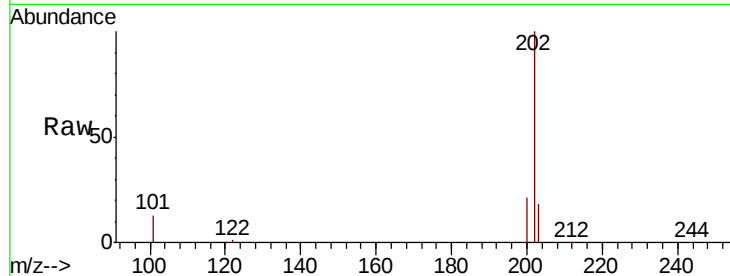
#28
Pvrene
Concen: 7.560 ng
RT: 19.62 min Scan# 1454
Delta R.T. 0.01 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Instrument :
BNA_E
ClientSampleId :
EXT-SW092-091819-2DL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	21.2	16.6	24.8
203	21.3	13.9	20.9

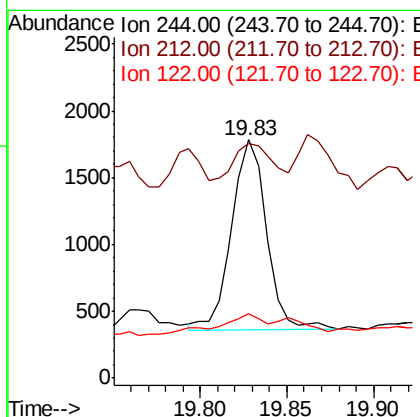
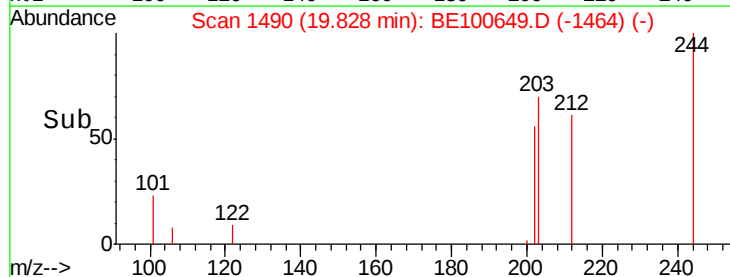
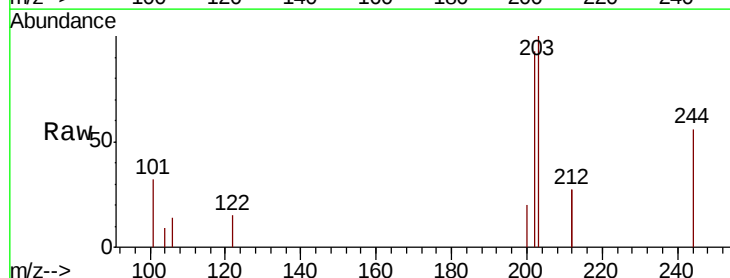
Manual Integrations
APPROVED

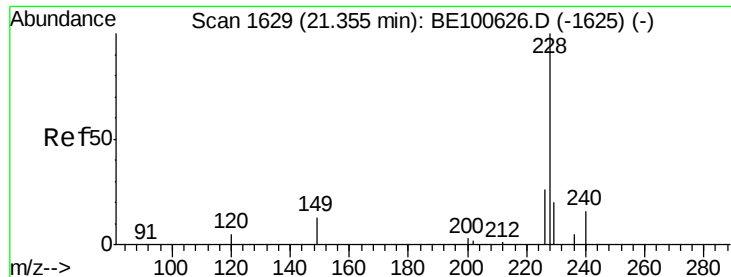
mohammad
10/17/2019 7:56:54 AM



#29
Terphenyl-d14
Concen: 0.031 ng
RT: 19.83 min Scan# 1490
Delta R.T. -0.00 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	98.4	23.9	35.9
122	27.0	7.7	11.5





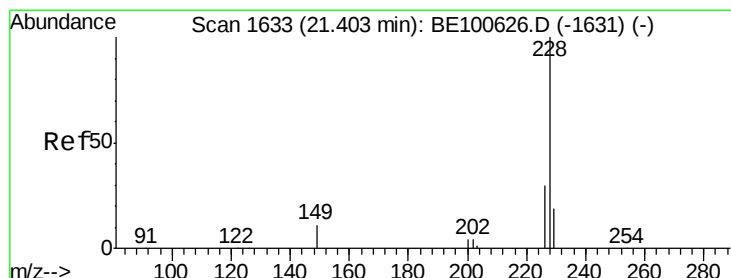
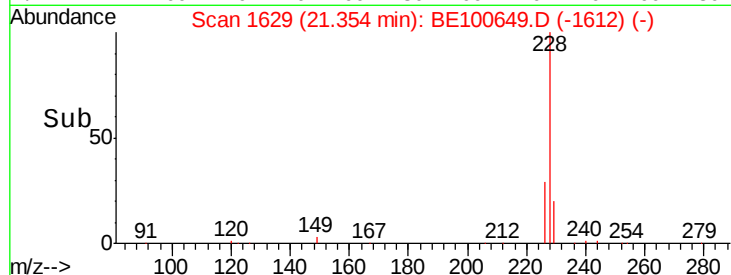
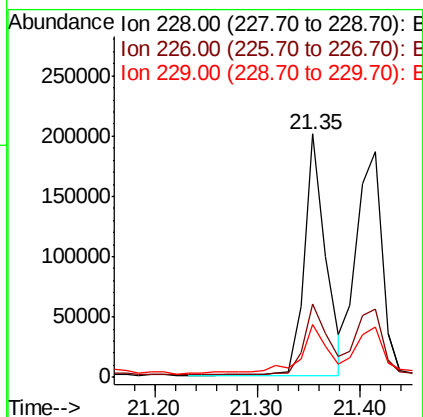
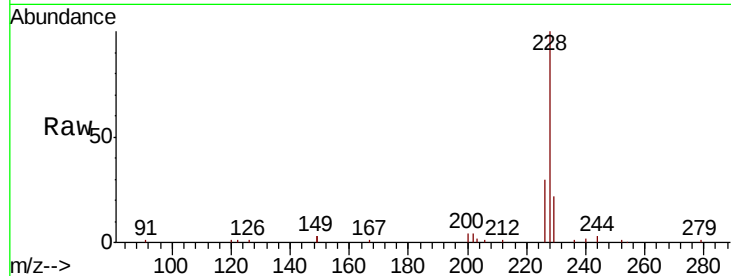
#30
Benzo(a)anthracene
Concen: 2.917 ng
RT: 21.35 min Scan# 1629
Delta R.T. -0.00 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Instrument :
BNA_E
ClientSampleId :
EXT-SW092-091819-2DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.3	21.0	31.6
229	22.0	15.8	23.8

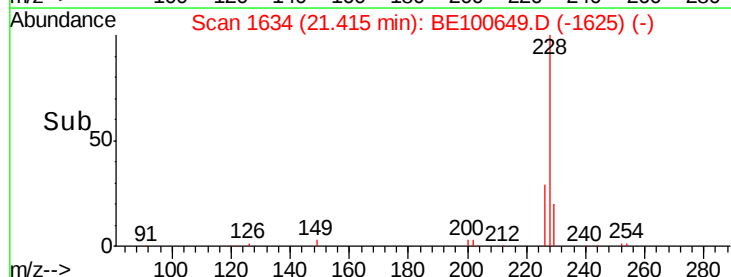
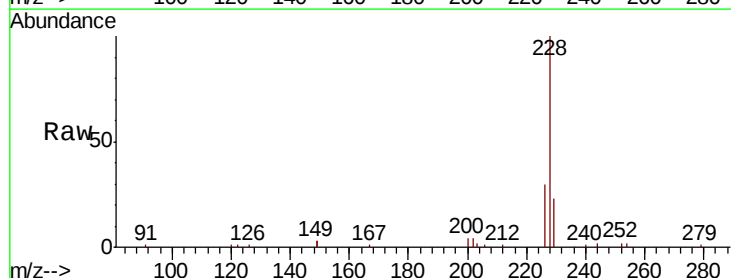
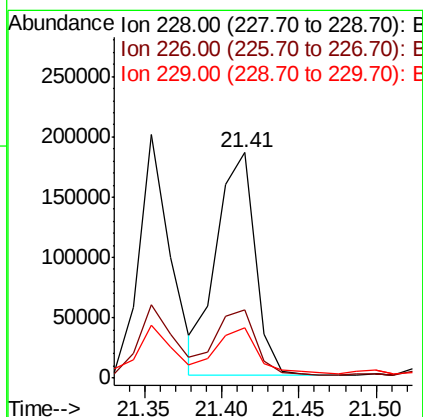
Manual Integrations
APPROVED

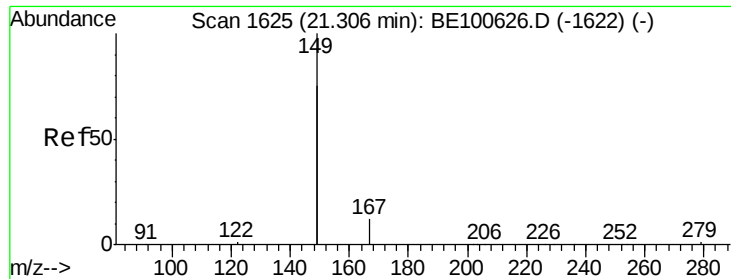
mohammad
10/17/2019 7:56:54 AM



#31
Chrysene
Concen: 3.233 ng
RT: 21.41 min Scan# 1634
Delta R.T. 0.01 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.5	36.7
229	22.6	15.6	23.4





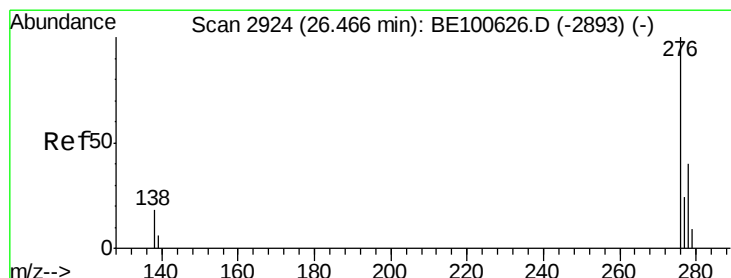
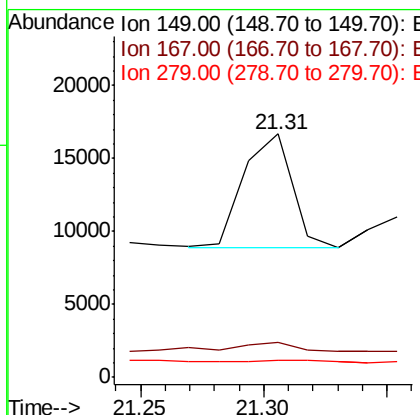
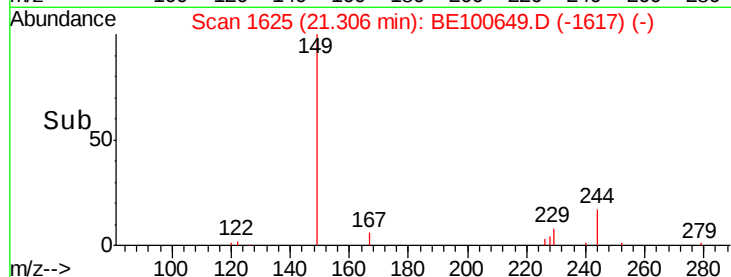
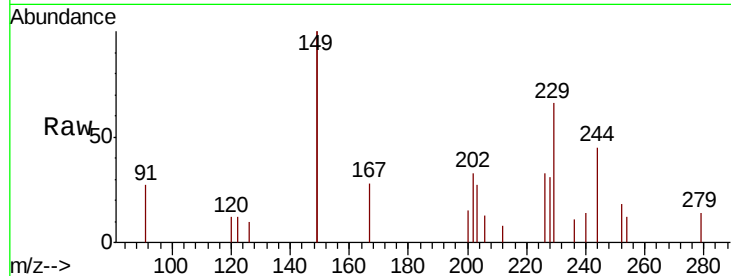
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.052 ng
 RT: 21.31 min Scan# 1625
 Delta R.T. -0.00 min
 Lab File: BE100649.D
 Acq: 15 Oct 2019 14:47

Instrument :
 BNA_E
 ClientSampleId :
 EXT-SW092-091819-2DL

Tot Ion	Ratio	Lower	Upper
149	100		
167	11.8	5.4	8.2#
279	2.4	1.5	2.3#

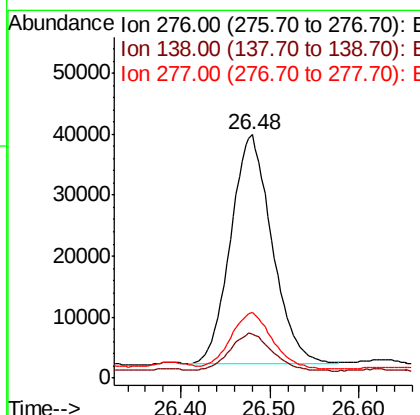
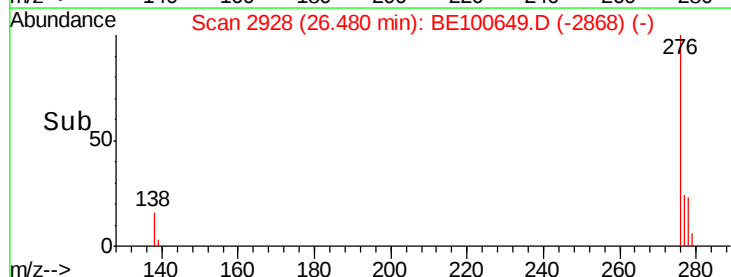
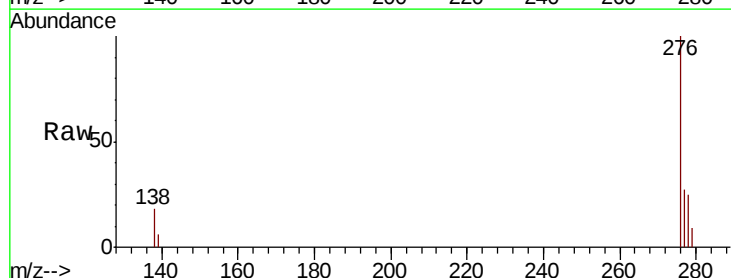
Manual Integrations
 APPROVED

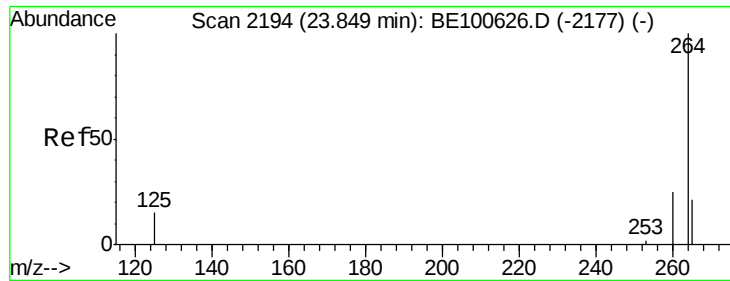
mohammad
 10/17/2019 7:56:54 AM



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 1.005 ng
 RT: 26.48 min Scan# 2928
 Delta R.T. 0.01 min
 Lab File: BE100649.D
 Acq: 15 Oct 2019 14:47

Tgt Ion	Ratio	Lower	Upper
276	100		
138	16.8	16.0	24.0
277	24.5	19.7	29.5





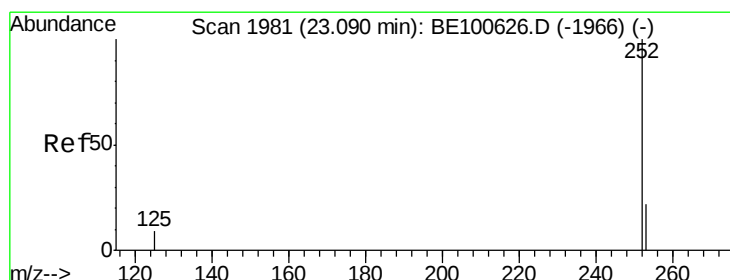
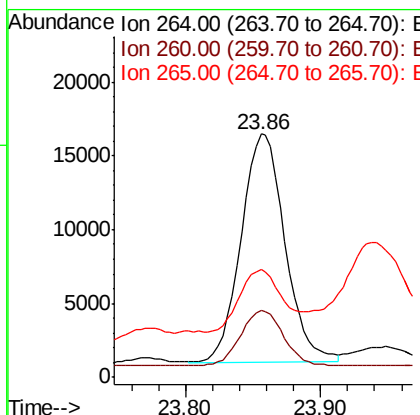
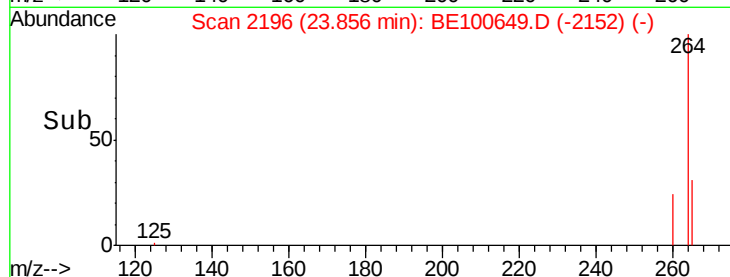
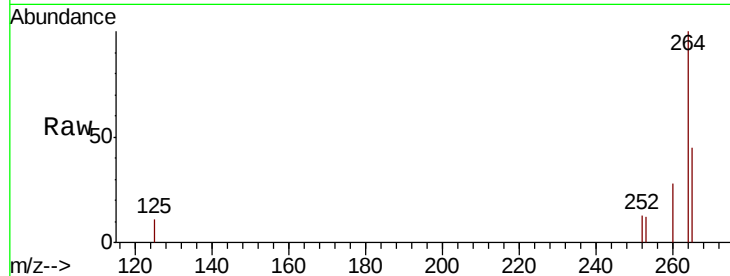
#34
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.86 min Scan# 2196
 Delta R.T. 0.01 min
 Lab File: BE100649.D
 Acq: 15 Oct 2019 14:47

Instrument :
 BNA_E
 ClientSampleId :
 EXT-SW092-091819-2DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	27.6	19.9	29.9
265	44.5	20.0	30.0

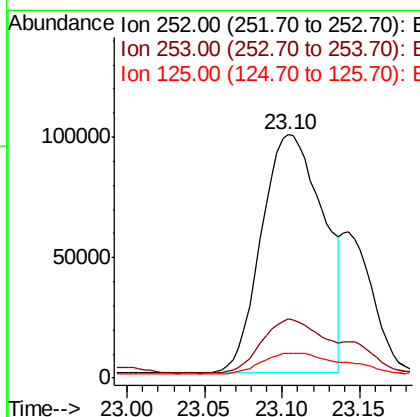
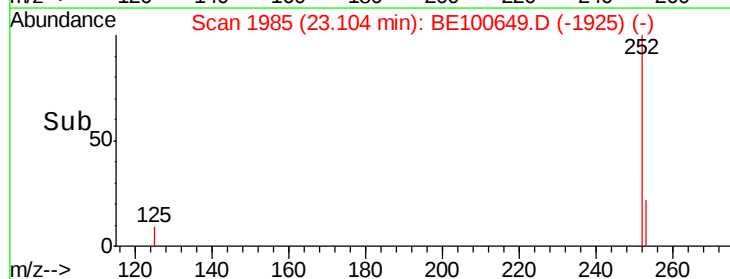
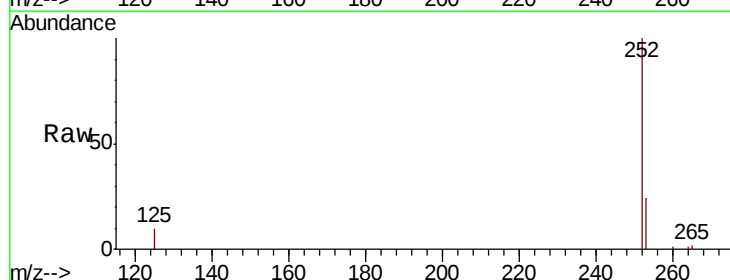
Manual Integrations
 APPROVED

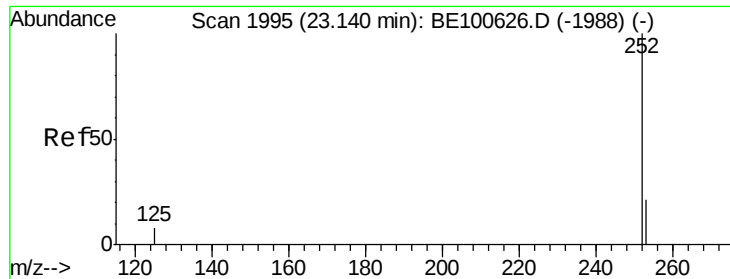
mohammad
 10/17/2019 7:56:54 AM



#35
 Benzo(b)fluoranthene
 Concen: 2.683 ng
 RT: 23.10 min Scan# 1985
 Delta R.T. 0.01 min
 Lab File: BE100649.D
 Acq: 15 Oct 2019 14:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.8	26.8
125	10.2	7.6	11.4





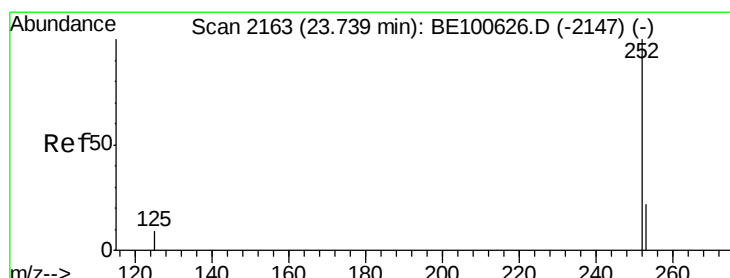
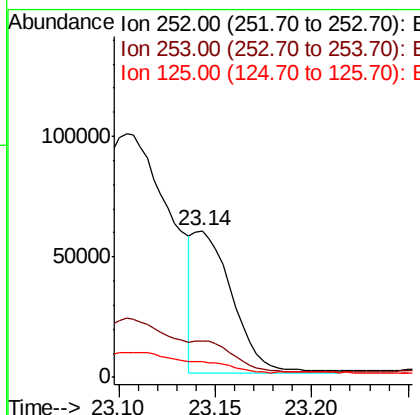
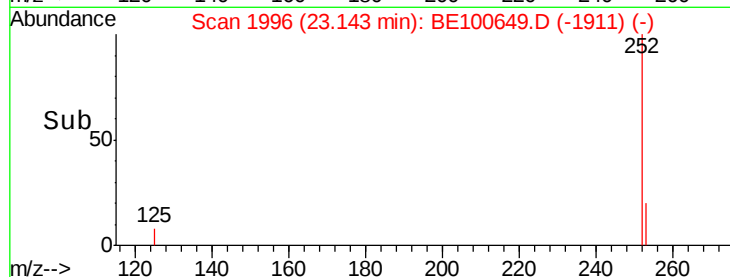
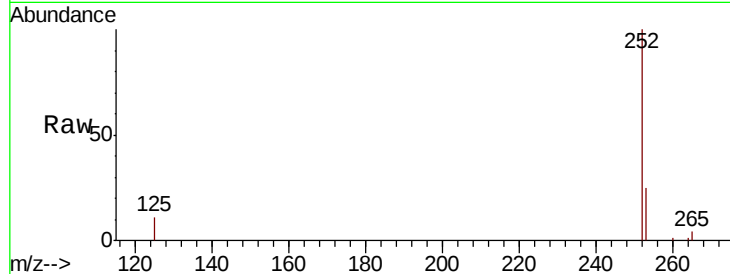
#36
Benzo(k)fluoranthene
Concen: 0.789 ng m
RT: 23.14 min Scan# 1996
Delta R.T. 0.00 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Instrument :
BNA_E
ClientSampleId :
EXT-SW092-091819-2DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.9	17.8	26.6
125	11.0	7.6	11.4

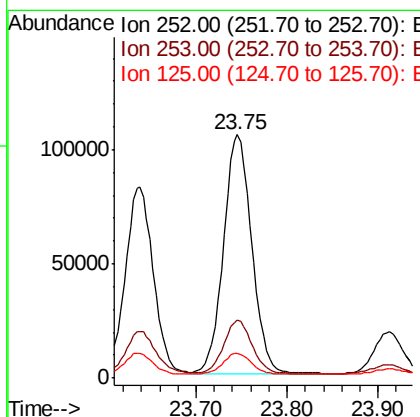
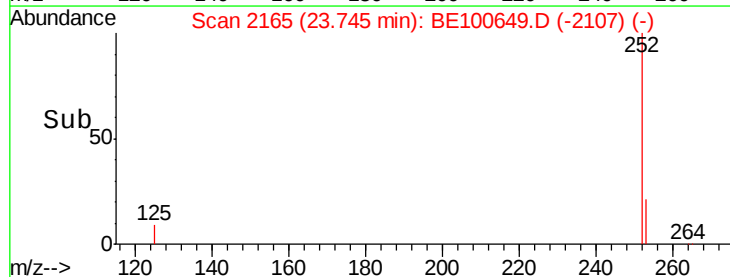
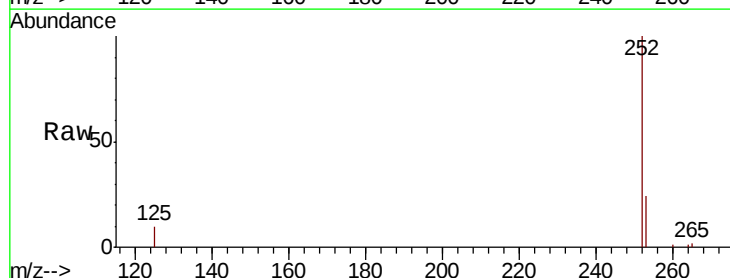
Manual Integrations
APPROVED

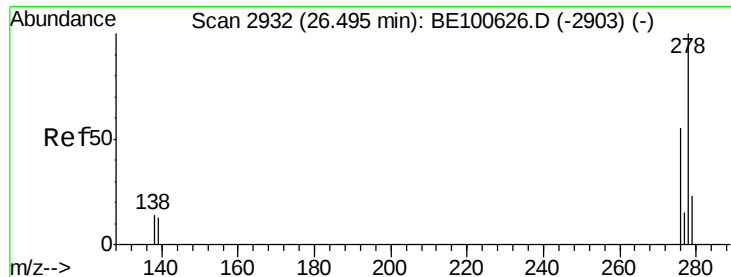
mohammad
10/17/2019 7:56:54 AM



#37
Benzo(a)pyrene
Concen: 2.367 ng
RT: 23.75 min Scan# 2165
Delta R.T. 0.01 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.2	27.2
125	10.2	8.1	12.1





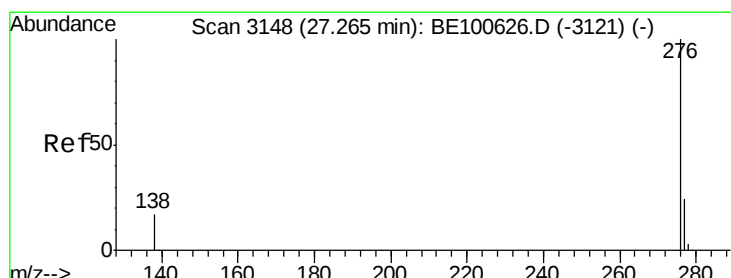
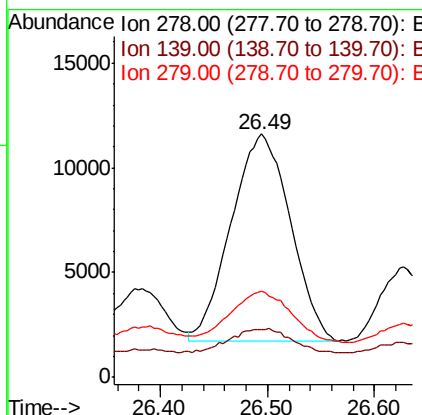
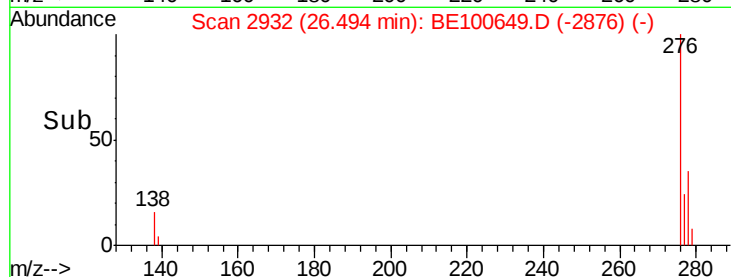
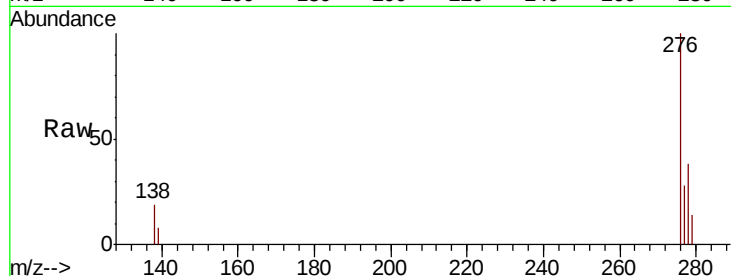
#38
Dibenzo(a,h)anthracene
Concen: 0.384 ng
RT: 26.49 min Scan# 2932
Delta R.T. -0.00 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Instrument :
BNA_E
ClientSampleId :
EXT-SW092-091819-2DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	19.7	11.2	16.8#
279	35.2	19.0	28.6#

Manual Integrations
APPROVED

mohammad
10/17/2019 7:56:54 AM



#39
Benzo(g,h,i)perylene
Concen: 1.437 ng
RT: 27.29 min Scan# 3154
Delta R.T. 0.02 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.2	19.3	28.9
138	18.2	14.5	21.7

