

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100319\
 Data File : BN008000.D
 Acq On : 04 Oct 2019 02:59
 Operator : JU
 Sample : K5077-13
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PST-024-B263-092519

Manual Integrations
 APPROVED

mohammad
 10/7/2019 8:27:53 AM

Quant Time: Oct 04 08:55:14 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN091819.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Oct 03 18:39:49 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.69	152	4650	0.40	ng	-0.02
7) Naphthalene-d8	10.46	136	19617	0.40	ng	-0.01
13) Acenaphthene-d10	14.31	164	12544	0.40	ng	-0.01
19) Phenanthrene-d10	17.06	188	27265	0.40	ng	-0.01
27) Chrysene-d12	21.25	240	29104	0.40	ng	-0.02
34) Perylene-d12	23.46	264	31124	0.40	ng	-0.03

System Monitoring Compounds

4) 2-Fluorophenol	5.31	112	5243	0.33	ng	0.00
5) Phenol-d6	6.87	99	7556	0.38	ng	0.00
8) Nitrobenzene-d5	8.82	82	5631	0.33	ng	-0.01
11) 2-Methylnaphthalene-d10	12.05	152	11967	0.36	ng	-0.02
14) 2,4,6-Tribromophenol	15.81	330	2352	0.34	ng	-0.01
15) 2-Fluorobiphenyl	12.93	172	16280	0.32	ng	-0.01
25) Fluoranthene-d10	19.09	212	32990	0.36	ng	-0.01
29) Terphenyl-d14	19.69	244	26896	0.38	ng	-0.02

Target Compounds

						Qvalue
16) Acenaphthylene	14.02	152	4422	0.066	ng	99
17) Acenaphthene	14.37	154	1167	0.027	ng	96
18) Fluorene	15.36	166	1748	0.032	ng	# 88
23) Phenanthrene	17.09	178	41854	0.493	ng	100
24) Anthracene	17.19	178	3699	0.048	ng	# 88
26) Fluoranthene	19.12	202	69723	0.660	ng	99
28) Pyrene	19.49	202	62484	0.629	ng	96
30) Benzo(a)anthracene	21.24	228	23798	0.222	ng	# 88
31) Chrysene	21.29	228	28126	0.269	ng	# 94
32) Bis(2-ethylhexyl)phthalate	21.17	149	6665	0.121	ng	94
33) Indeno(1,2,3-cd)pyrene	25.68	276	17102	0.131	ng	96
35) Benzo(b)fluoranthene	22.81	252	34015	0.315	ng	# 80
36) Benzo(k)fluoranthene	22.84	252	12566m	0.118	ng	
37) Benzo(a)pyrene	23.37	252	23113	0.228	ng	# 73
38) Dibenzo(a,h)anthracene	25.68	278	3970	0.038	ng	# 12
39) Benzo(g,h,i)perylene	26.35	276	16892	0.164	ng	# 85

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

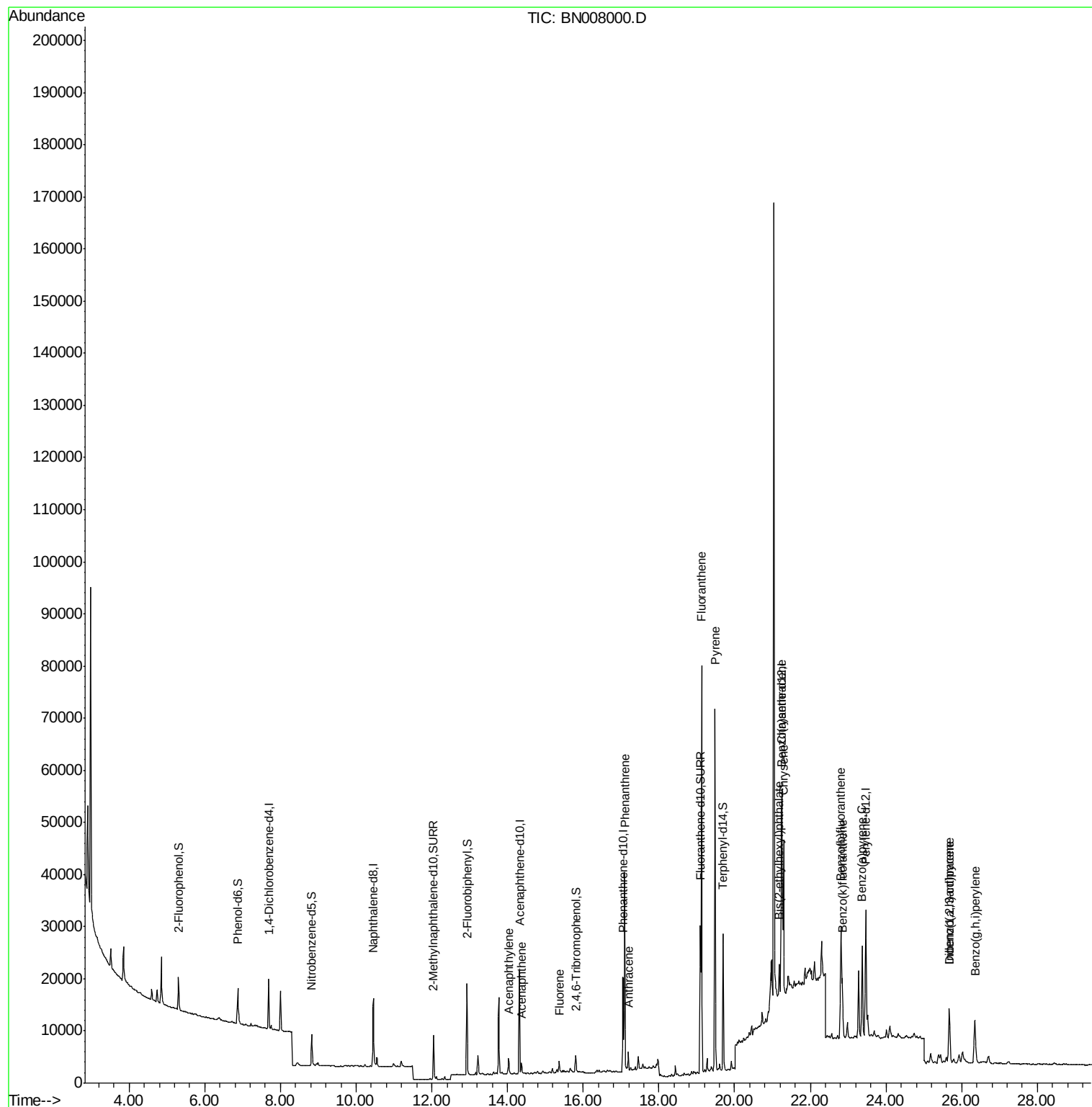
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100319\
Data File : BN008000.D
Acq On : 04 Oct 2019 02:59
Operator : JU
Sample : K5077-13
Misc :
ALS Vial : 17 Sample Multiplier: 1

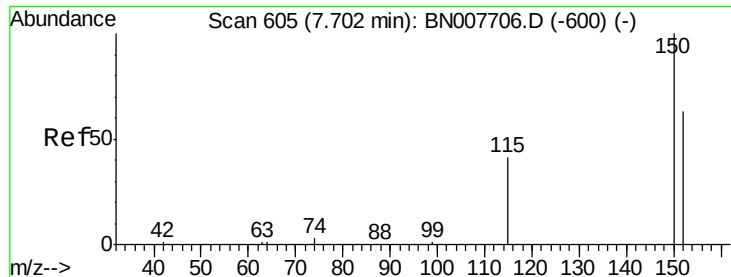
Instrument :
BNA_N
ClientSampleId :
PST-024-B263-092519

Manual Integrations
APPROVED

mohammad
10/7/2019 8:27:53 AM

Quant Time: Oct 04 08:55:14 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN091819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 03 18:39:49 2019
Response via : Initial Calibration





#1

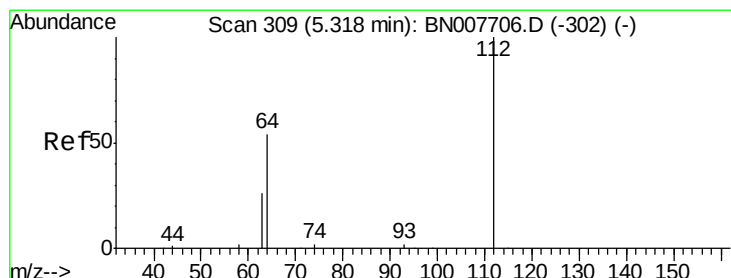
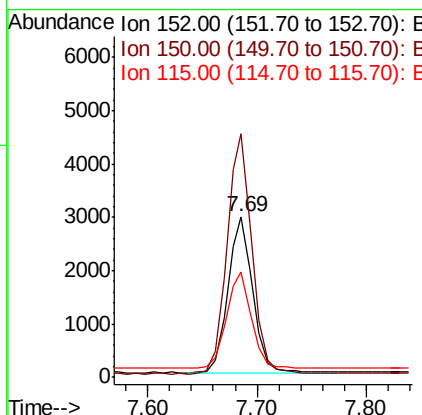
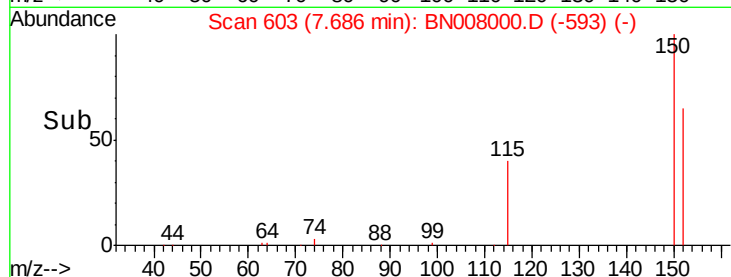
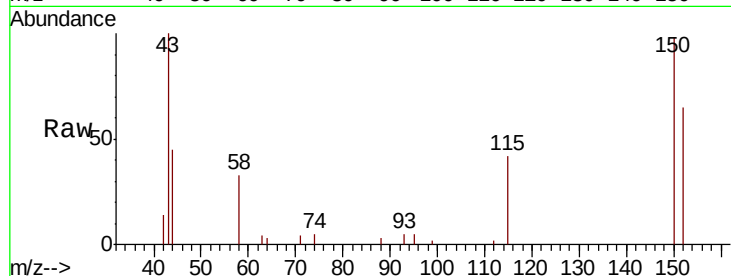
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.69 min Scan# 603
Delta R.T. -0.02 min
Lab File: BN008000.D
Acq: 04 Oct 2019 02:59

Instrument :
BNA_N
ClientSampleId :
PST-024-B263-092519

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.4	125.6	188.4
115	65.5	53.3	79.9

Manual Integrations
APPROVED

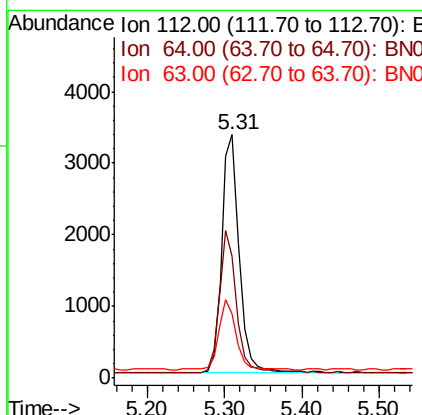
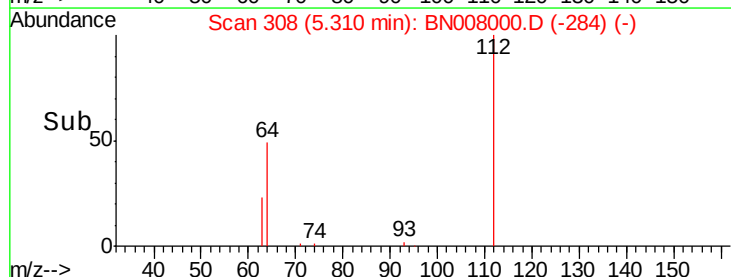
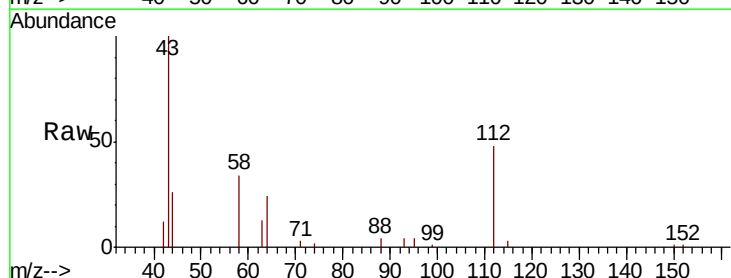
mohammad
10/7/2019 8:27:53 AM

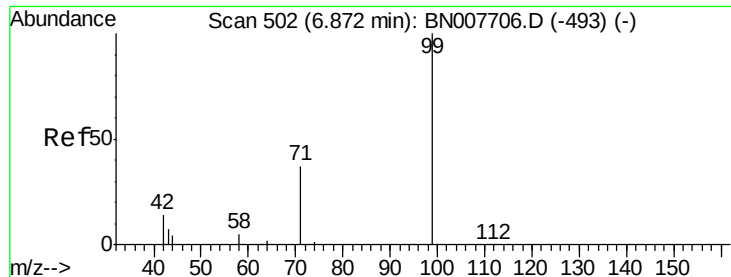


#4

2-Fluorophenol
Concen: 0.328 ng
RT: 5.31 min Scan# 308
Delta R.T. -0.01 min
Lab File: BN008000.D
Acq: 04 Oct 2019 02:59

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.5	46.6	70.0
63	29.9	23.1	34.7





#5

Phenol-d6

Concen: 0.378 ng

RT: 6.87 min Scan# 502

Delta R.T. 0.00 min

Lab File: BN008000.D

Acq: 04 Oct 2019 02:59

Instrument :

BNA_N

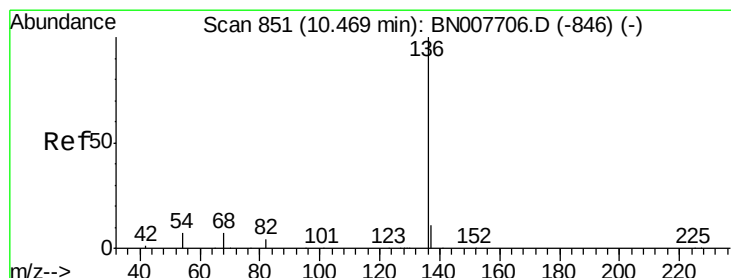
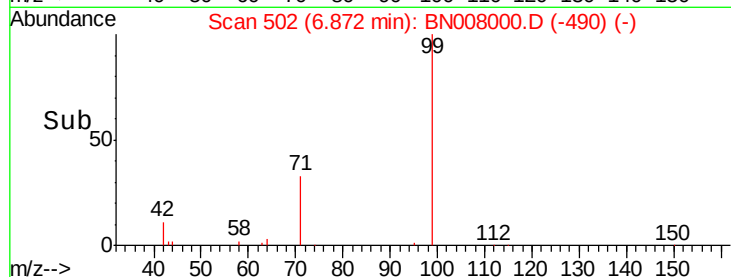
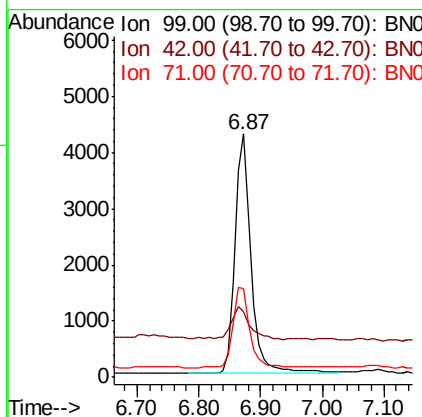
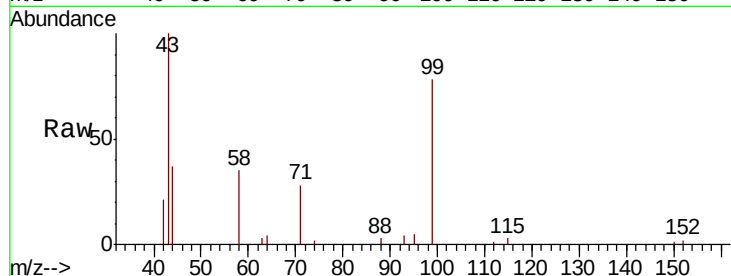
ClientSampleId :

PST-024-B263-092519

Tot Ion:	99	Resp:	7556
Ion	Ratio	Lower	Upper
99	100		
42	15.4	12.8	19.2
71	35.7	27.6	41.4

Manual Integrations
APPROVED

mohammad
10/7/2019 8:27:53 AM



#7

Naphthalene-d8

Concen: 0.400 ng

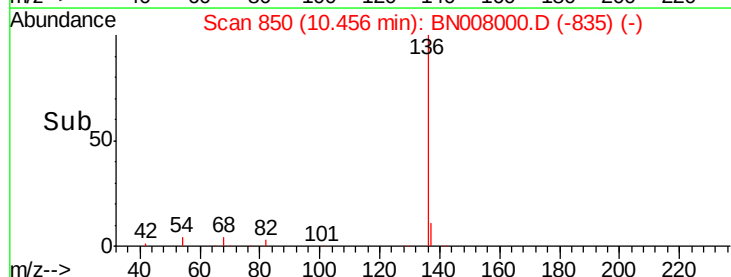
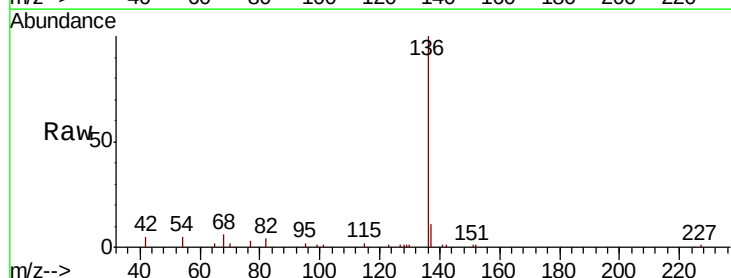
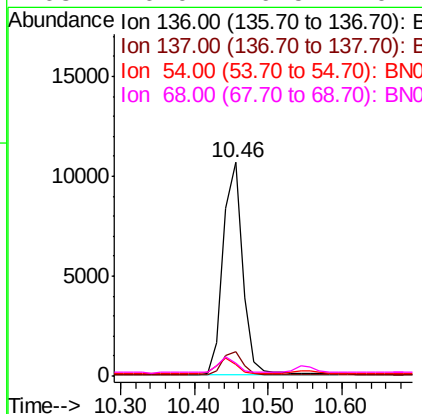
RT: 10.46 min Scan# 850

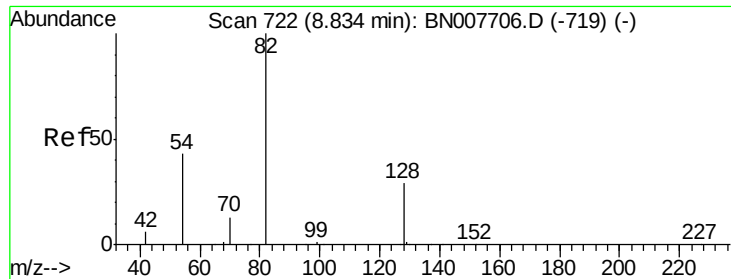
Delta R.T. -0.01 min

Lab File: BN008000.D

Acq: 04 Oct 2019 02:59

Tgt Ion:	136	Resp:	19617
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.2	13.8
54	5.4	5.8	8.8#
68	6.0	6.5	9.7#





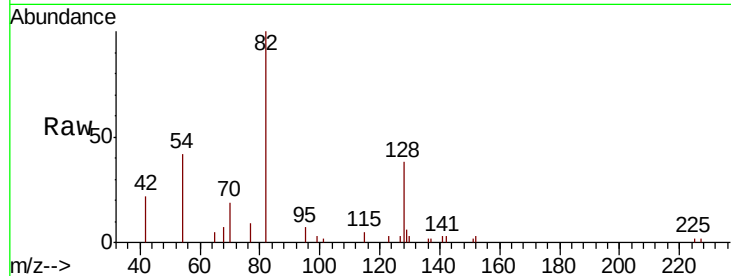
#8
 Nitrobenzene-d5
 Concen: 0.328 ng
 RT: 8.82 min Scan# 721
 Delta R.T. -0.01 min
 Lab File: BN008000.D
 Acq: 04 Oct 2019 02:59

Instrument :
 BNA_N
 ClientSampleId :
 PST-024-B263-092519

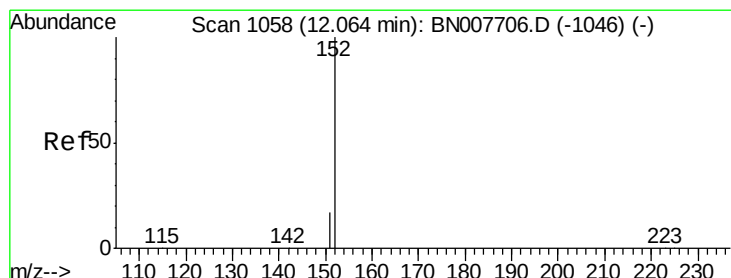
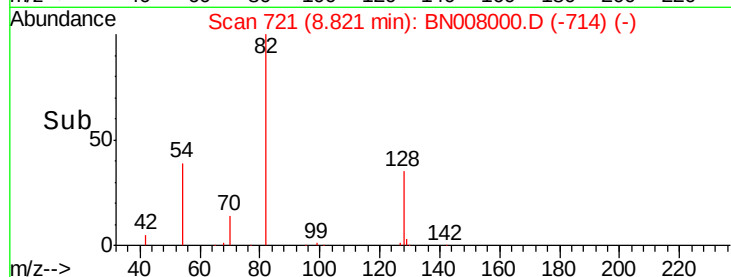
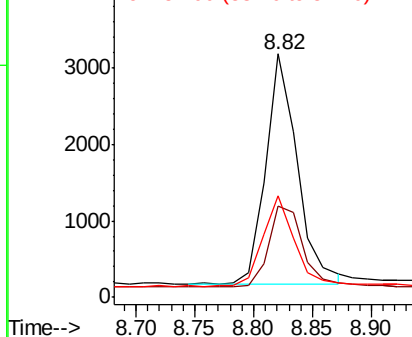
Tot Ion	Ratio	Lower	Upper
82	100		
128	37.6	24.5	36.7#
54	41.6	35.2	52.8

Manual Integrations
 APPROVED

mohammad
 10/7/2019 8:27:53 AM

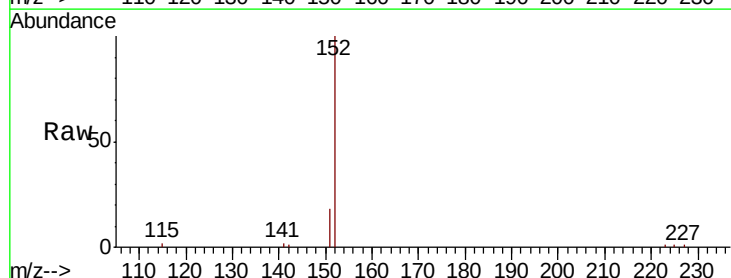


Abundance Ion 82.00 (81.70 to 82.70): BN007706.D (-719) (-)
 Ion 128.00 (127.70 to 128.70): BN007706.D (-719) (-)
 Ion 54.00 (53.70 to 54.70): BN007706.D (-719) (-)

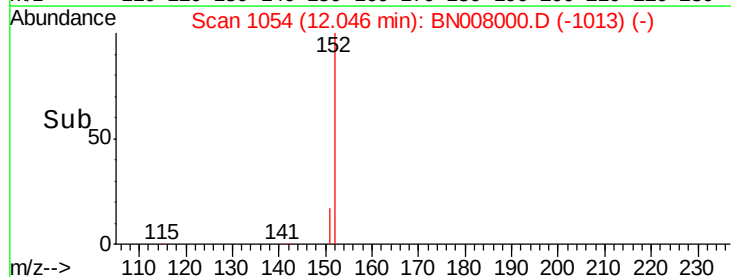
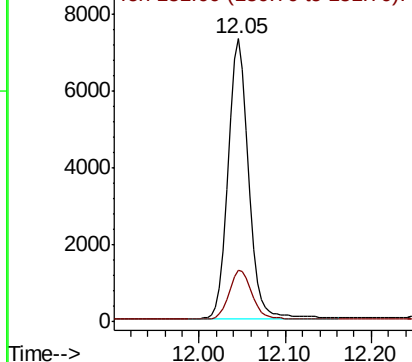


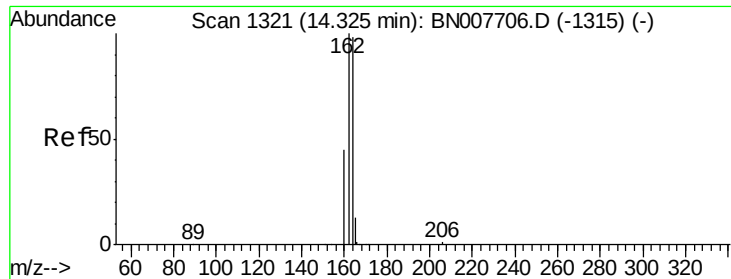
#11
 2-Methylnaphthalene-d10
 Concen: 0.362 ng
 RT: 12.05 min Scan# 1054
 Delta R.T. -0.02 min
 Lab File: BN008000.D
 Acq: 04 Oct 2019 02:59

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.4	23.2



Abundance Ion 152.00 (151.70 to 152.70): BN007706.D (-1046) (-)
 Ion 151.00 (150.70 to 151.70): BN007706.D (-1046) (-)





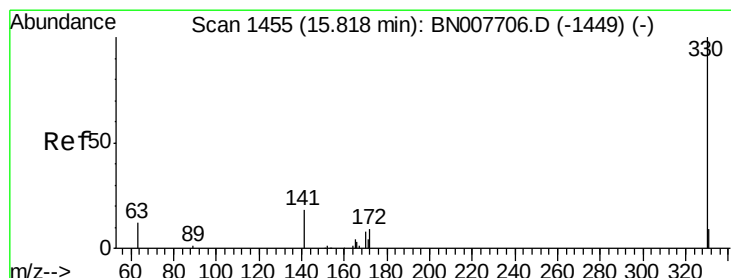
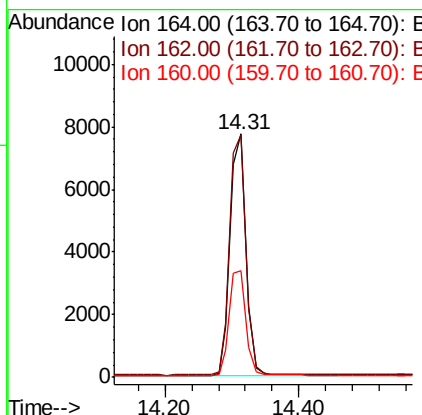
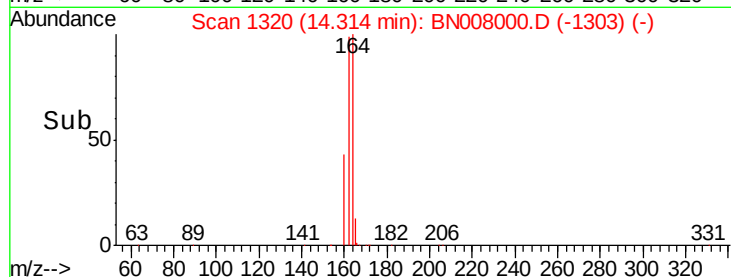
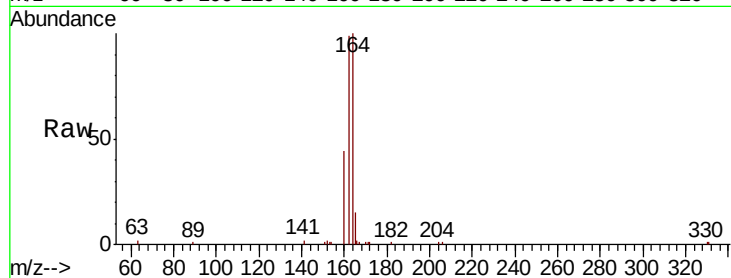
#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.31 min Scan# 1320
 Delta R.T. -0.01 min
 Lab File: BN008000.D
 Acq: 04 Oct 2019 02:59

Instrument :
 BNA_N
 ClientSampleId :
 PST-024-B263-092519

Tot Ion	Ratio	Lower	Upper
164	100		
162	99.4	81.7	122.5
160	43.6	37.0	55.4

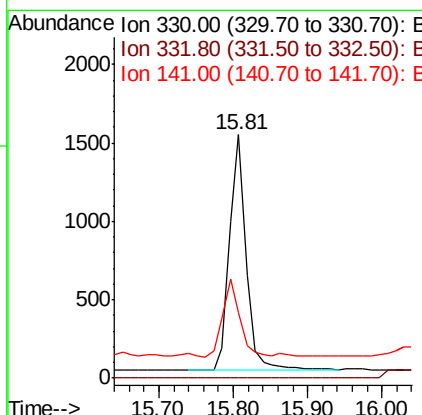
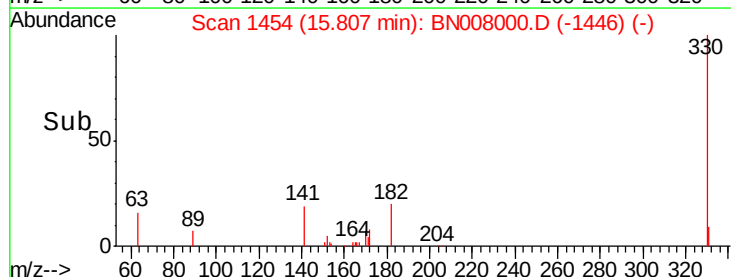
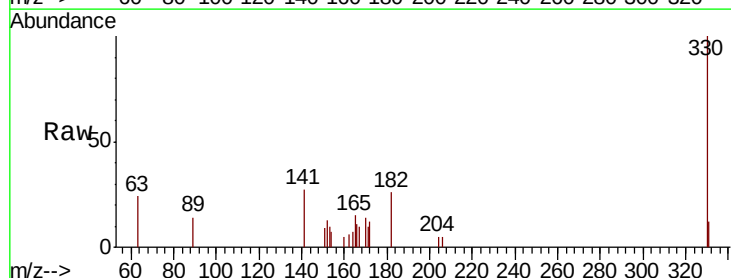
Manual Integrations
 APPROVED

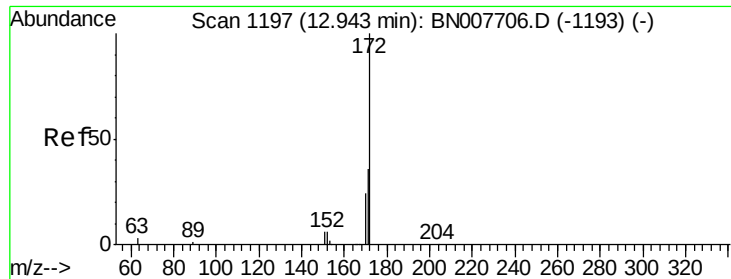
mohammad
 10/7/2019 8:27:53 AM



#14
 2,4,6-Tribromophenol
 Concen: 0.344 ng
 RT: 15.81 min Scan# 1454
 Delta R.T. -0.01 min
 Lab File: BN008000.D
 Acq: 04 Oct 2019 02:59

Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.5	28.7	43.1





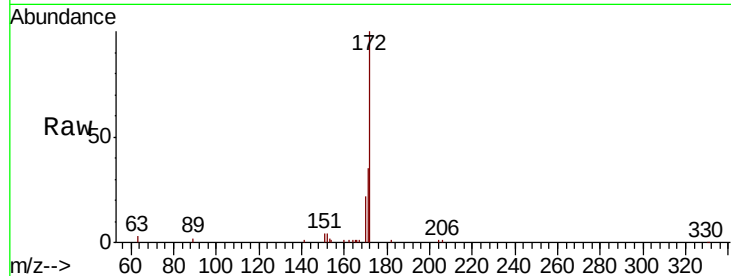
#15
2-Fluorobiphenyl
Concen: 0.315 ng
RT: 12.93 min Scan# 1196
Delta R.T. -0.01 min
Lab File: BN008000.D
Acq: 04 Oct 2019 02:59

Instrument :
BNA_N
ClientSampleId :
PST-024-B263-092519

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.8	43.2
170	22.3	19.5	29.3

Manual Integrations
APPROVED

mohammad
10/7/2019 8:27:53 AM

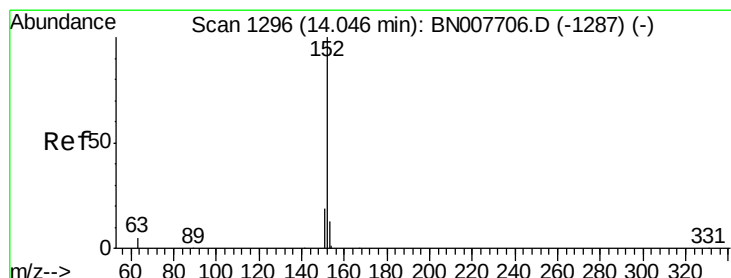
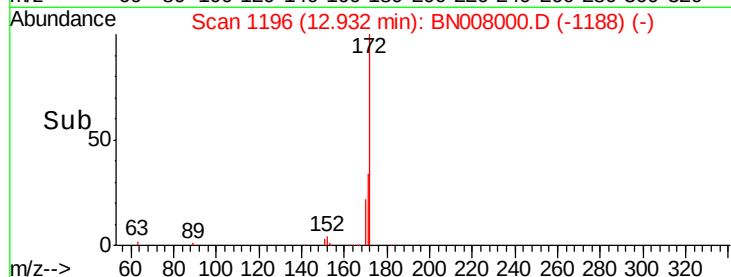
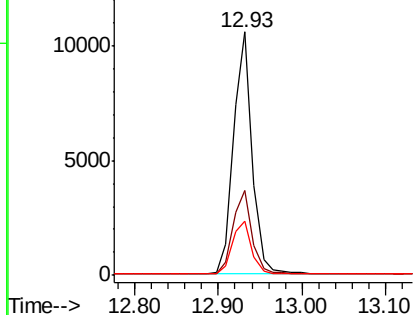


Abundance

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: 0.066 ng
RT: 14.02 min Scan# 1294
Delta R.T. -0.02 min
Lab File: BN008000.D
Acq: 04 Oct 2019 02:59

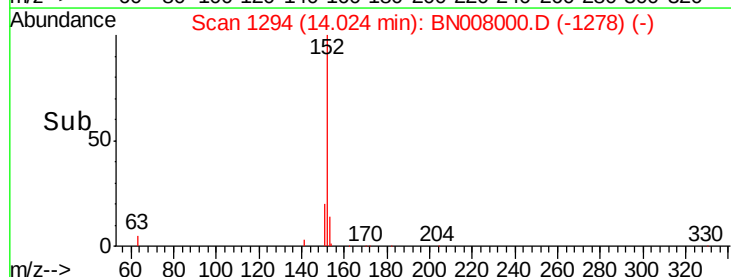
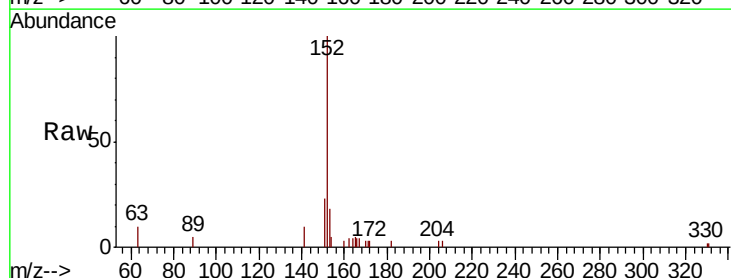
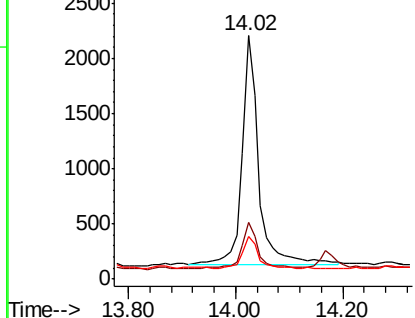
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.5	23.3
153	13.3	10.4	15.6

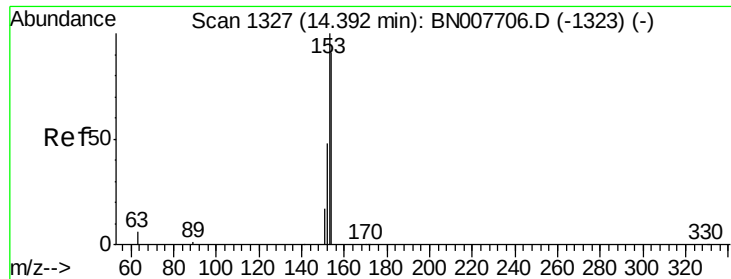
Abundance

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: 0.027 ng

RT: 14.37 min Scan# 1325

Delta R.T. -0.02 min

Lab File: BN008000.D

Acq: 04 Oct 2019 02:59

Instrument :

BNA_N

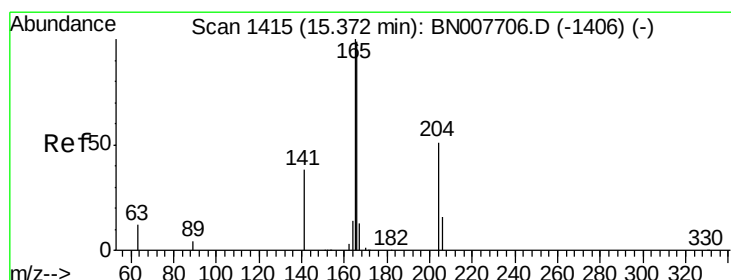
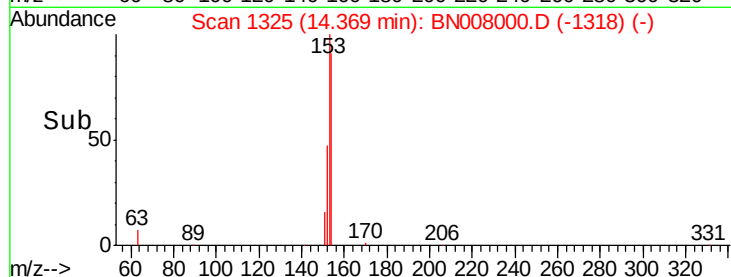
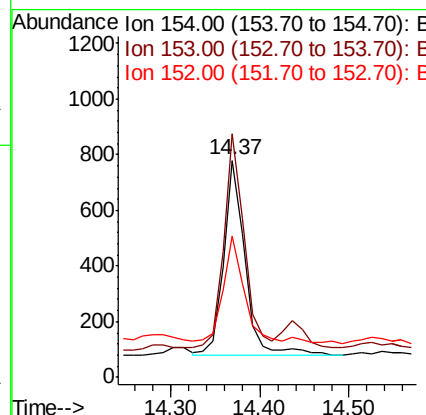
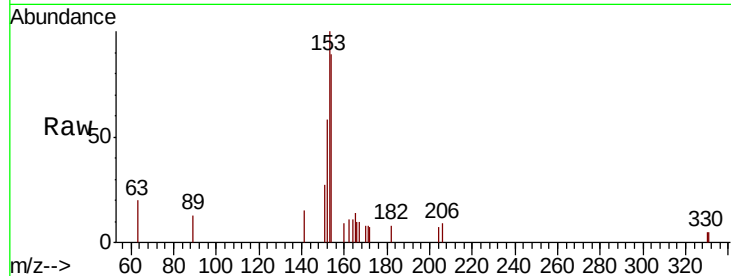
ClientSampleId :

PST-024-B263-092519

Tot Ion:	154	Resp:	1167
Ion	Ratio	Lower	Upper
154	100		
153	104.0	87.0	130.4
152	50.3	42.7	64.1

Manual Integrations
APPROVED

mohammad
10/7/2019 8:27:53 AM



#18

Fluorene

Concen: 0.032 ng

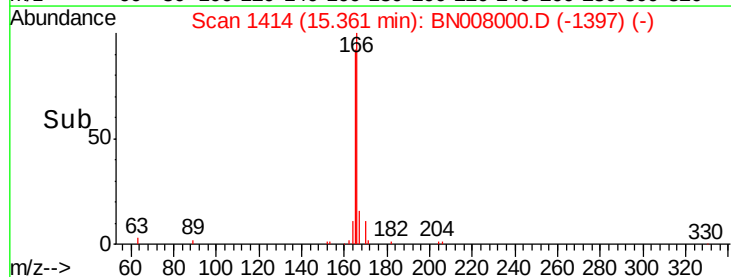
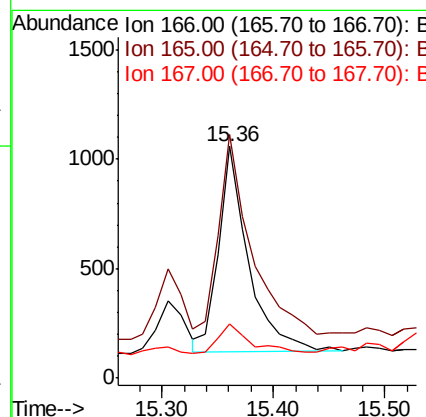
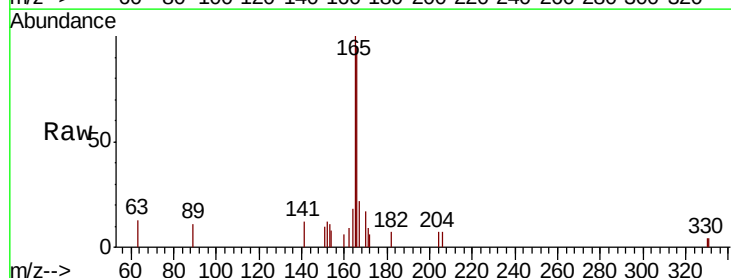
RT: 15.36 min Scan# 1414

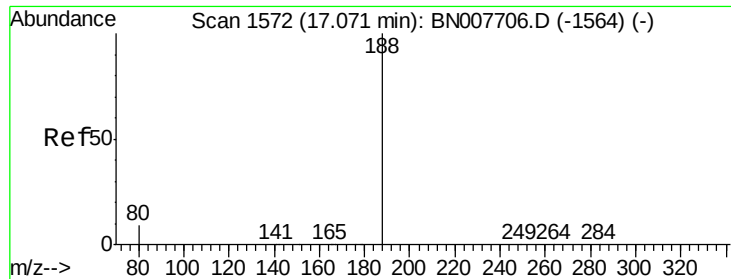
Delta R.T. -0.01 min

Lab File: BN008000.D

Acq: 04 Oct 2019 02:59

Tgt Ion:	166	Resp:	1748
Ion	Ratio	Lower	Upper
166	100		
165	109.8	78.0	117.0
167	16.4	10.9	16.3#





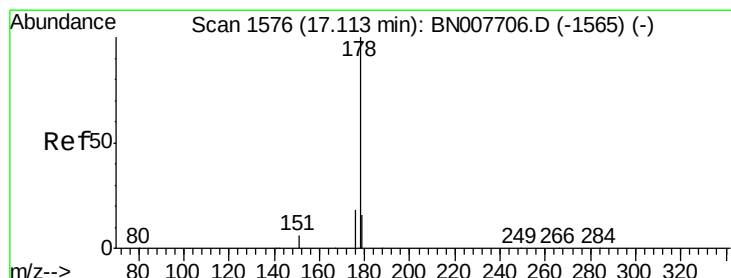
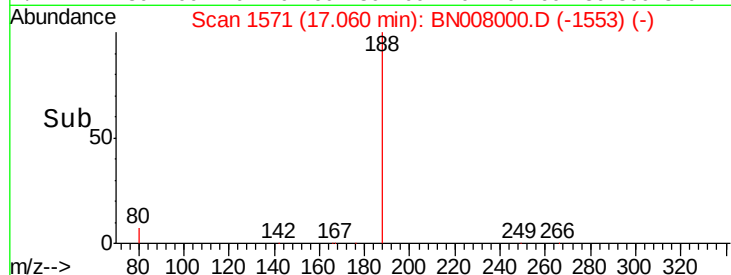
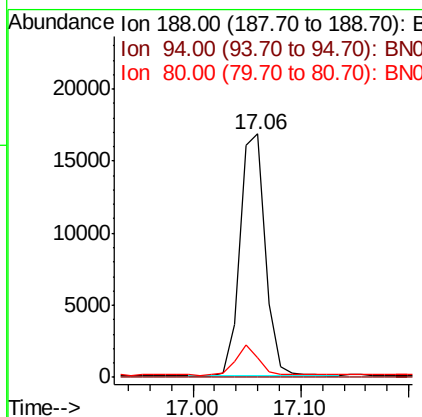
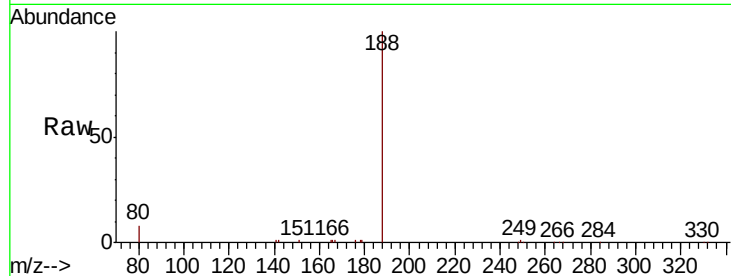
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.06 min Scan# 1571
Delta R.T. -0.01 min
Lab File: BN008000.D
Acq: 04 Oct 2019 02:59

Instrument :
BNA_N
ClientSampleId :
PST-024-B263-092519

Tot Ion	Ratio	Resp	Lower	Upper
188	100	27265		
94	0.0	0.0	0.0	0.0
80	8.0	7.4	11.2	

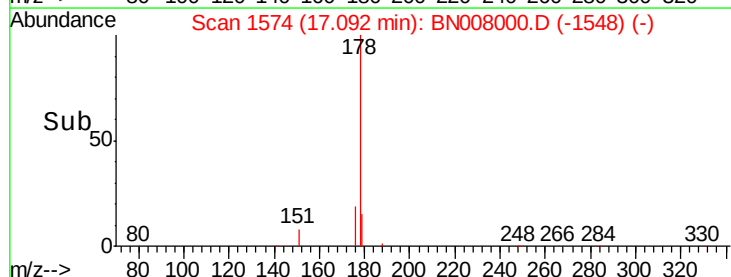
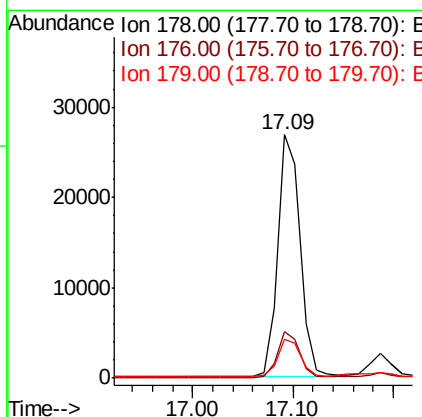
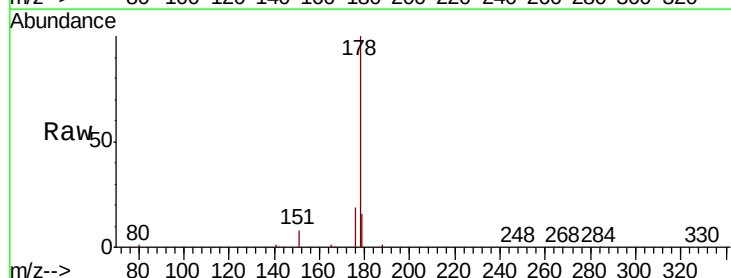
Manual Integrations
APPROVED

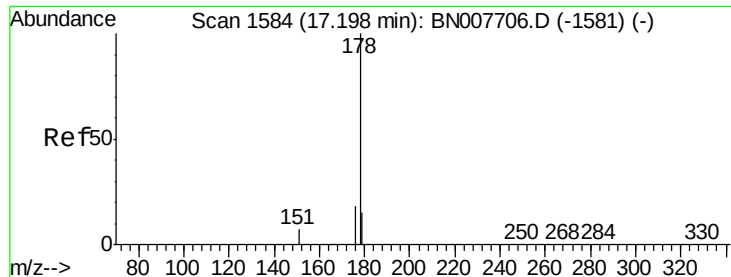
mohammad
10/7/2019 8:27:53 AM



#23
Phenanthrene
Concen: 0.493 ng
RT: 17.09 min Scan# 1574
Delta R.T. -0.02 min
Lab File: BN008000.D
Acq: 04 Oct 2019 02:59

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	41854		
176	18.5	14.9	22.3	
179	15.7	12.5	18.7	





#24

Anthracene

Concen: 0.048 ng

RT: 17.19 min Scan# 1583

Delta R.T. -0.01 min

Lab File: BN008000.D

Acq: 04 Oct 2019 02:59

Instrument :

BNA_N

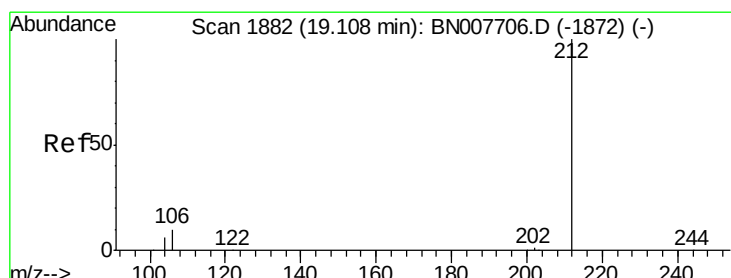
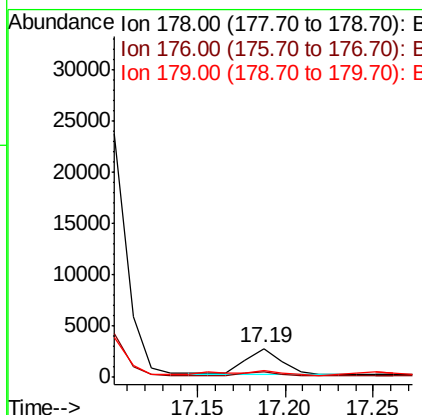
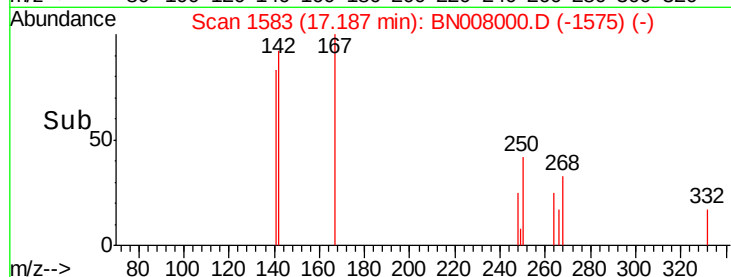
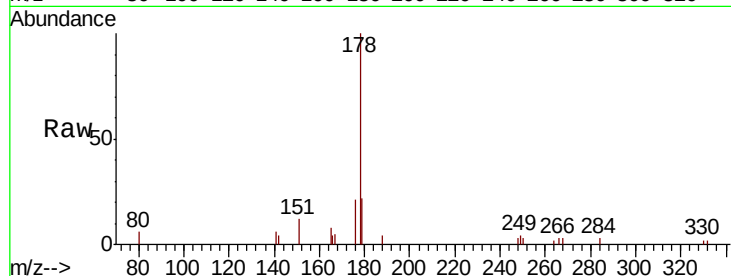
ClientSampleId :

PST-024-B263-092519

Tot Ion:	178	Resp:	3699
Ion Ratio	Lower	Upper	
178	100		
176	19.7	14.6	21.8
179	24.6	12.2	18.4

Manual Integrations
APPROVED

mohammad
10/7/2019 8:27:53 AM



#25

Fluoranthene-d10

Concen: 0.359 ng

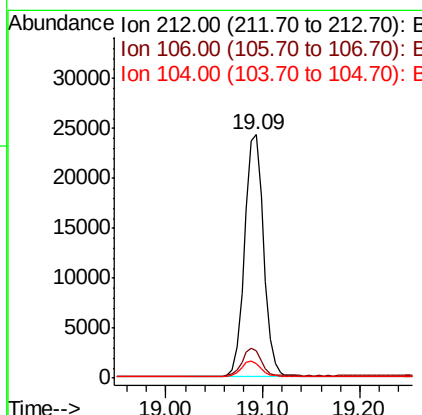
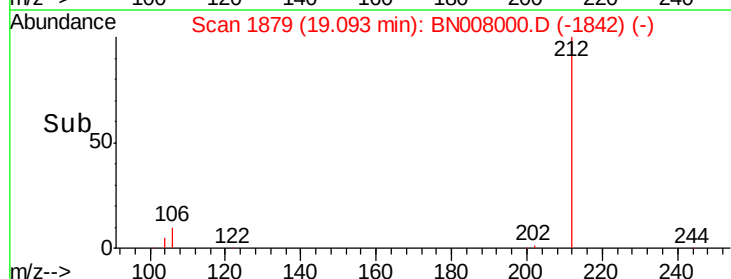
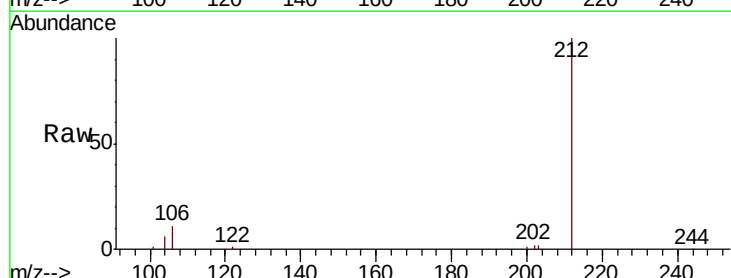
RT: 19.09 min Scan# 1879

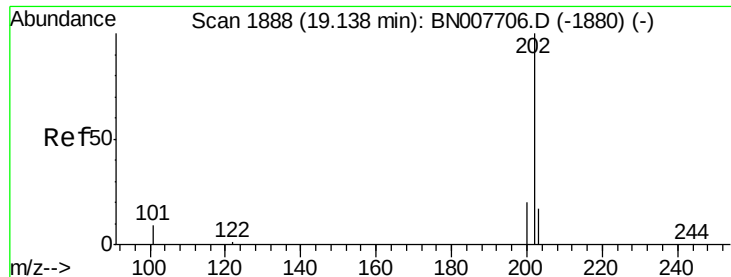
Delta R.T. -0.01 min

Lab File: BN008000.D

Acq: 04 Oct 2019 02:59

Tgt Ion:	212	Resp:	32990
Ion Ratio	Lower	Upper	
212	100		
106	11.5	9.4	14.0
104	6.7	5.3	7.9





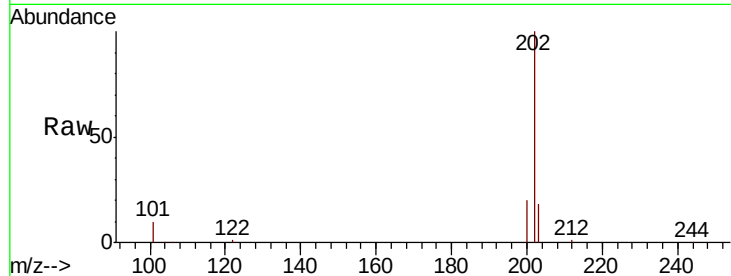
#26
 Fluoranthene
 Concen: 0.660 ng
 RT: 19.12 min Scan# 1885
 Delta R.T. -0.02 min
 Lab File: BN008000.D
 Acq: 04 Oct 2019 02:59

Instrument :
 BNA_N
 ClientSampleId :
 PST-024-B263-092519

Tot Ion	Ratio	Lower	Upper
202	100		
101	10.2	8.4	12.6
203	17.5	13.8	20.8

Manual Integrations
 APPROVED

mohammad
 10/7/2019 8:27:53 AM

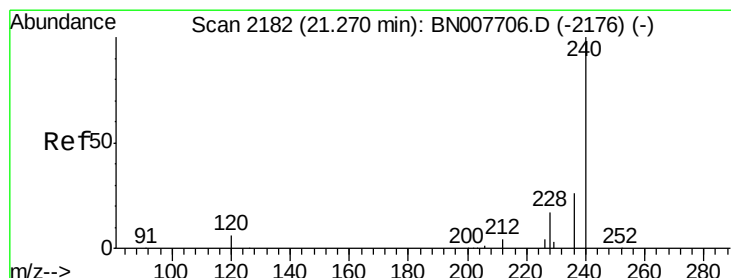
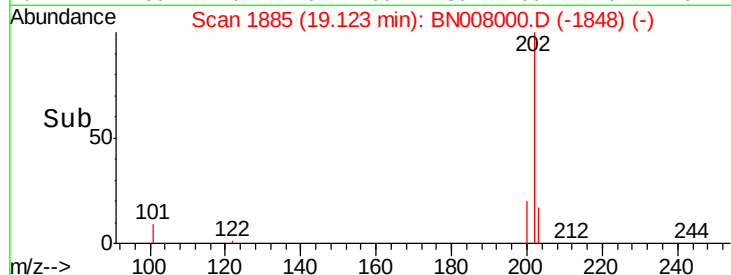
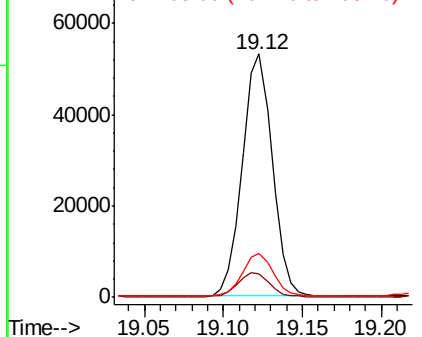


Abundance

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: 21.25 min Scan# 2180
 Delta R.T. -0.02 min
 Lab File: BN008000.D
 Acq: 04 Oct 2019 02:59

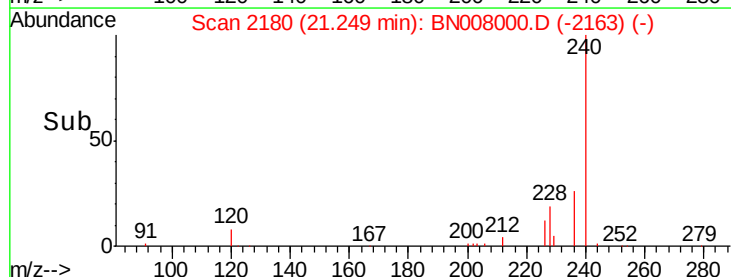
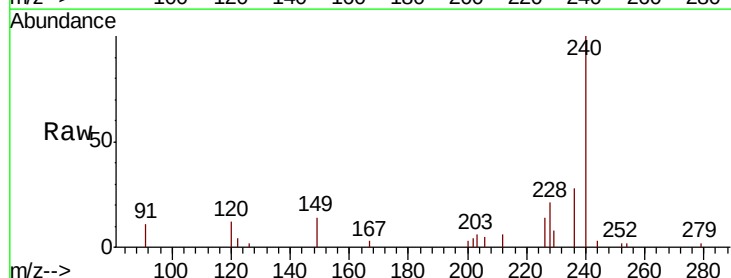
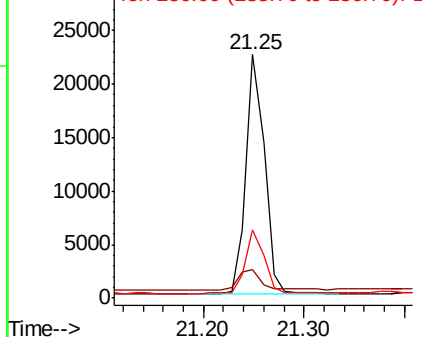
Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.5	5.4	8.2#
236	27.9	21.0	31.4

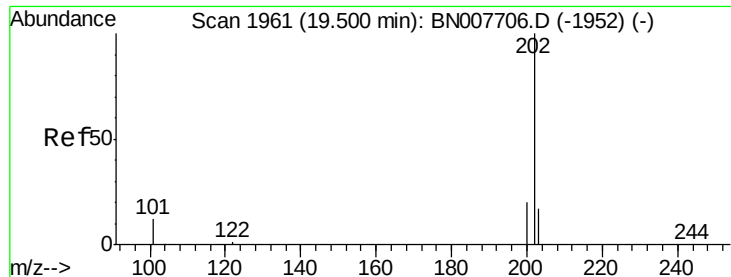
Abundance

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





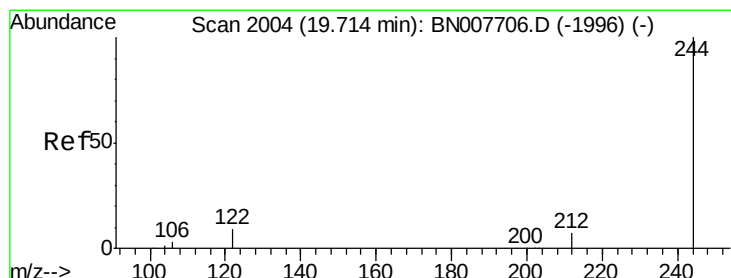
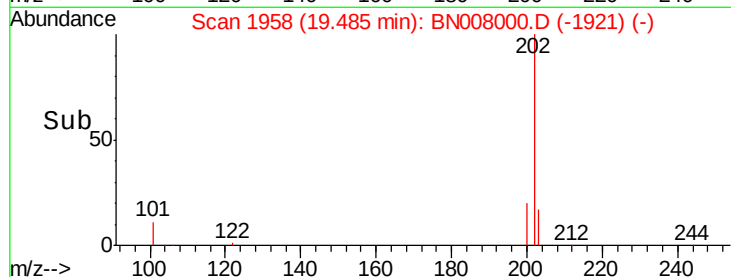
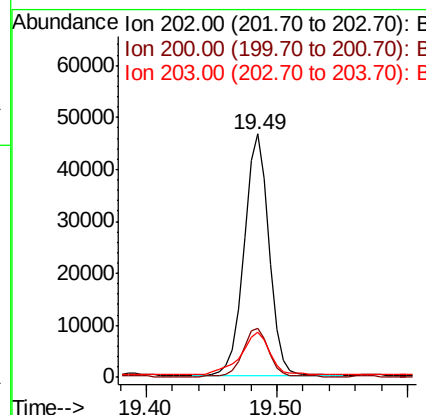
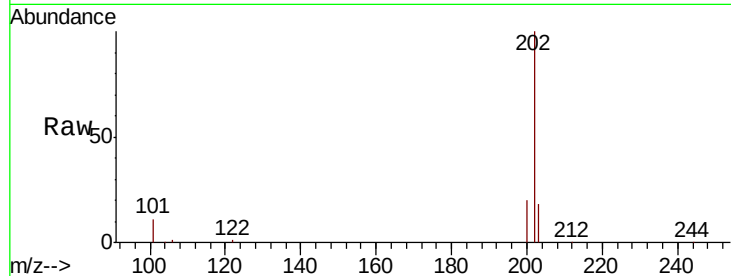
#28
Pvrene
Concen: 0.629 ng
RT: 19.49 min Scan# 1958
Delta R.T. -0.02 min
Lab File: BN008000.D
Acq: 04 Oct 2019 02:59

Instrument :
BNA_N
ClientSampleId :
PST-024-B263-092519

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.6	16.4	24.6
203	20.9	14.1	21.1

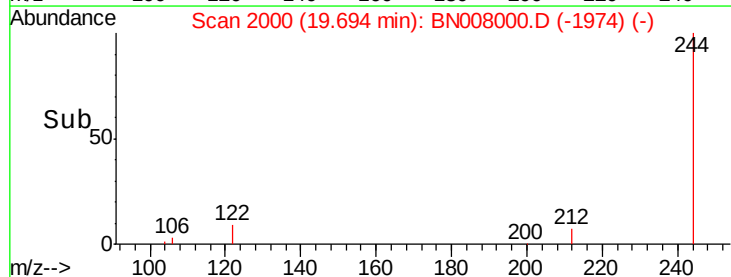
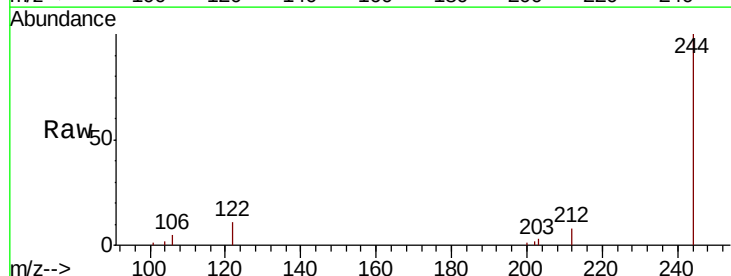
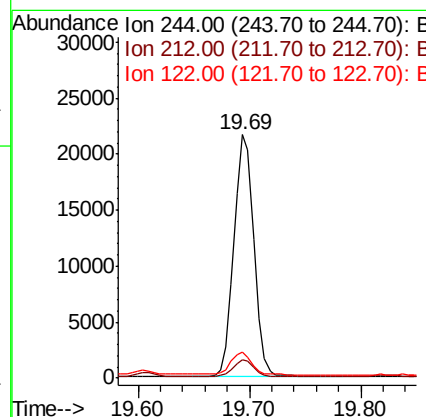
Manual Integrations
APPROVED

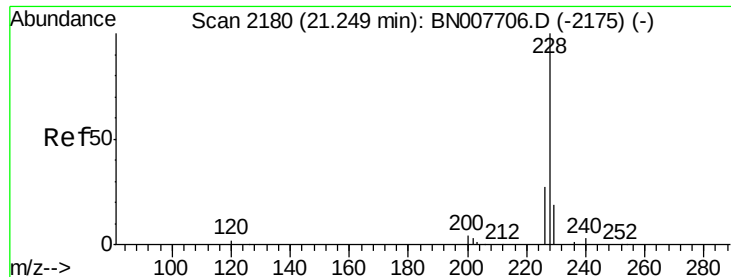
mohammad
10/7/2019 8:27:53 AM



#29
Terphenyl-d14
Concen: 0.376 ng
RT: 19.69 min Scan# 2000
Delta R.T. -0.02 min
Lab File: BN008000.D
Acq: 04 Oct 2019 02:59

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.5	5.9	8.9
122	10.8	7.4	11.2





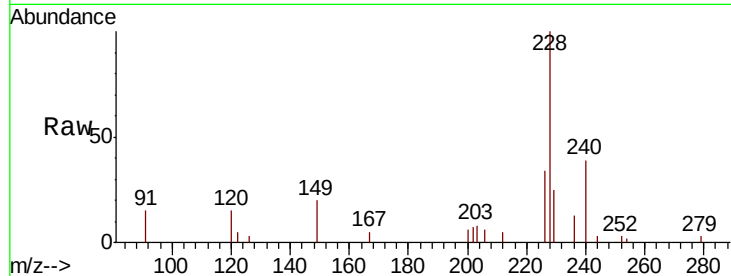
#30
Benzo(a)anthracene
Concen: 0.222 ng
RT: 21.24 min Scan# 2179
Delta R.T. -0.01 min
Lab File: BN008000.D
Acq: 04 Oct 2019 02:59

Instrument :
BNA_N
ClientSampleId :
PST-024-B263-092519

Tot Ion	Ratio	Lower	Upper
228	100		
226	33.5	22.1	33.1#
229	25.3	15.8	23.6#

Manual Integrations
APPROVED

mohammad
10/7/2019 8:27:53 AM

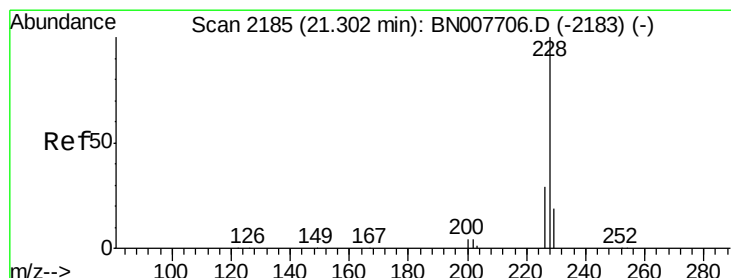
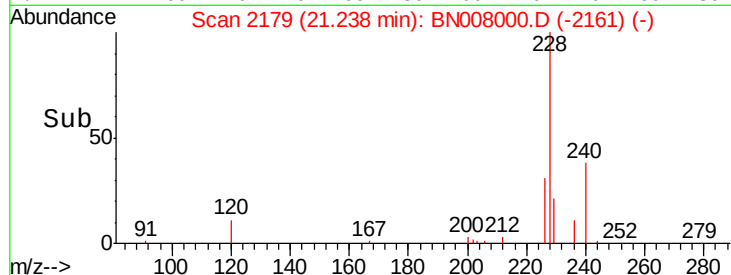
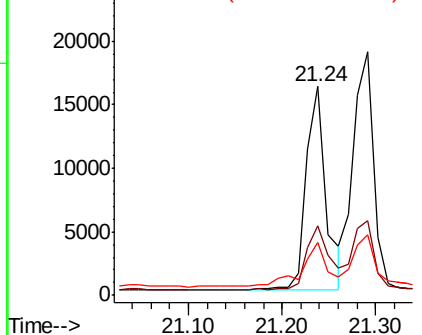


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#31
Chrysene
Concen: 0.269 ng
RT: 21.29 min Scan# 2184
Delta R.T. -0.01 min
Lab File: BN008000.D
Acq: 04 Oct 2019 02:59

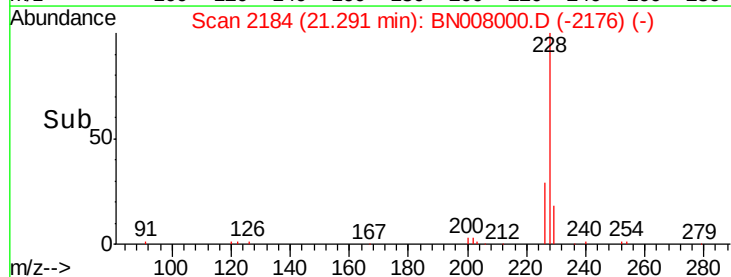
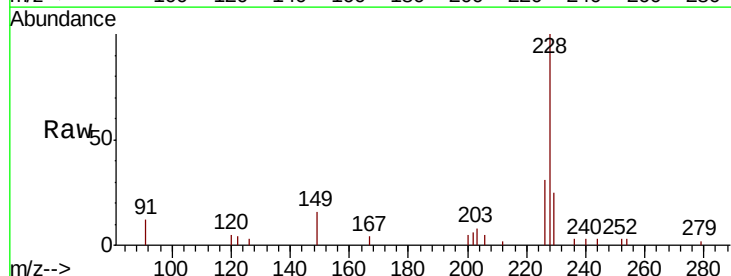
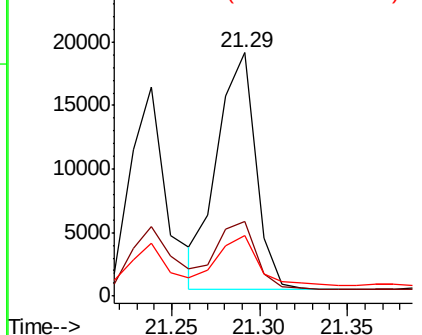
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	23.9	35.9
229	25.1	15.8	23.6#

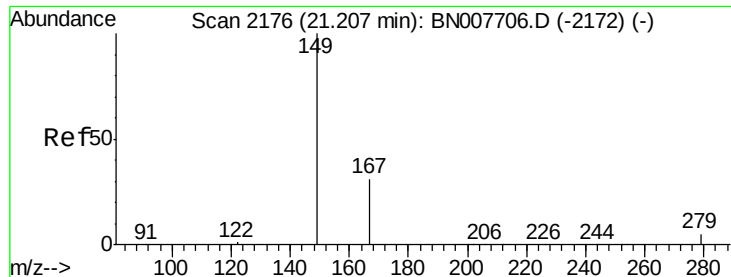
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





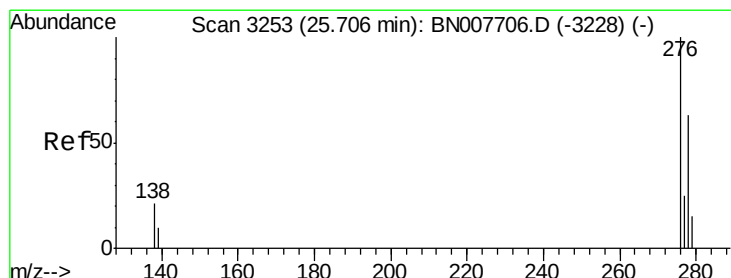
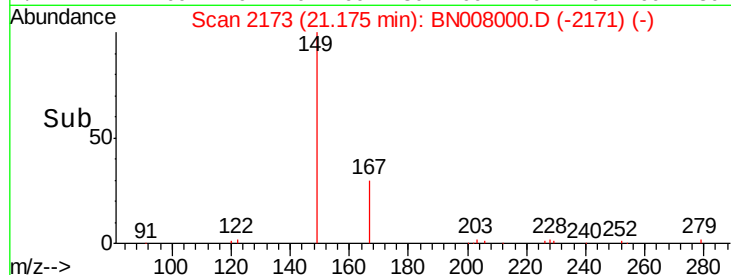
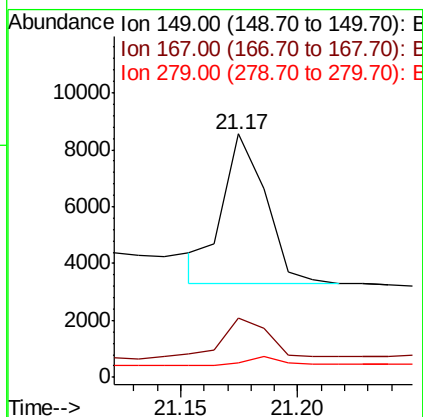
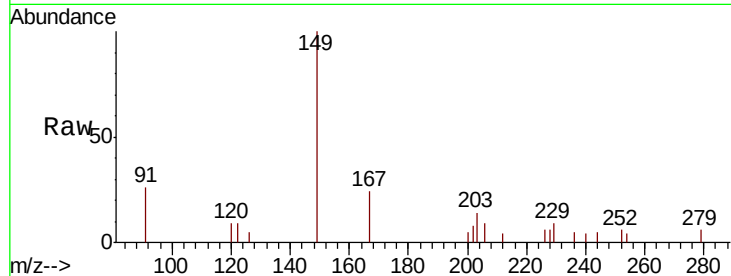
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.121 ng
 RT: 21.17 min Scan# 2173
 Delta R.T. -0.03 min
 Lab File: BN008000.D
 Acq: 04 Oct 2019 02:59

Instrument :
 BNA_N
 ClientSampleId :
 PST-024-B263-092519

Tot Ion	Ratio	Lower	Upper
149	100		
167	25.8	23.7	35.5
279	5.5	4.2	6.2

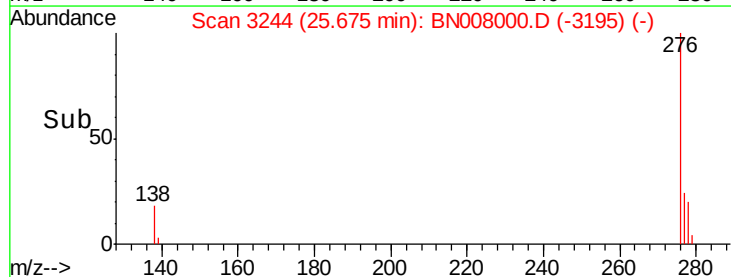
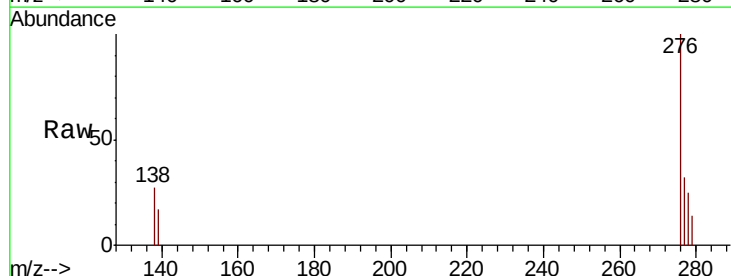
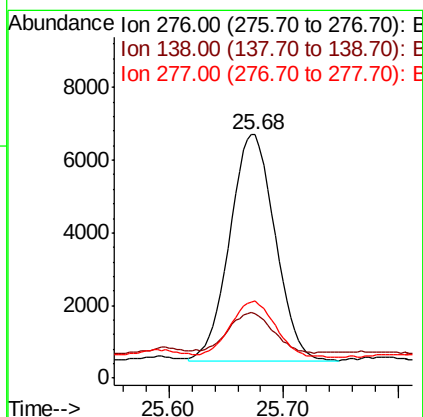
Manual Integrations
 APPROVED

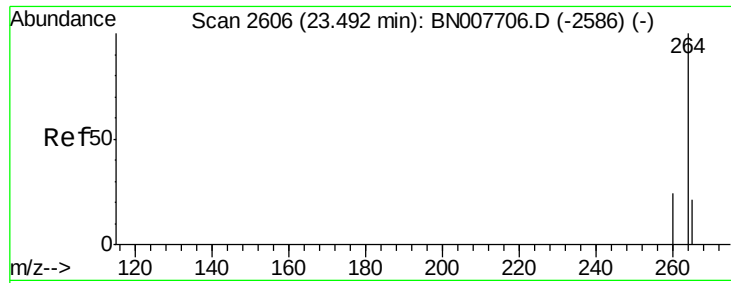
mohammad
 10/7/2019 8:27:53 AM



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.131 ng
 RT: 25.68 min Scan# 3244
 Delta R.T. -0.03 min
 Lab File: BN008000.D
 Acq: 04 Oct 2019 02:59

Tgt Ion	Ratio	Lower	Upper
276	100		
138	17.8	17.1	25.7
277	24.8	20.0	30.0





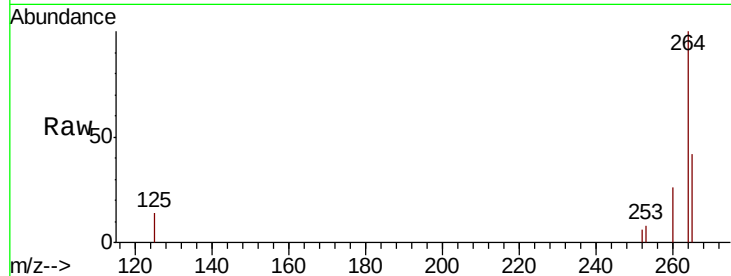
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.46 min Scan# 2598
Delta R.T. -0.03 min
Lab File: BN008000.D
Acq: 04 Oct 2019 02:59

Instrument :
BNA_N
ClientSampleId :
PST-024-B263-092519

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.5	19.3	28.9
265	41.6	26.9	40.3

Manual Integrations
APPROVED

mohammad
10/7/2019 8:27:53 AM

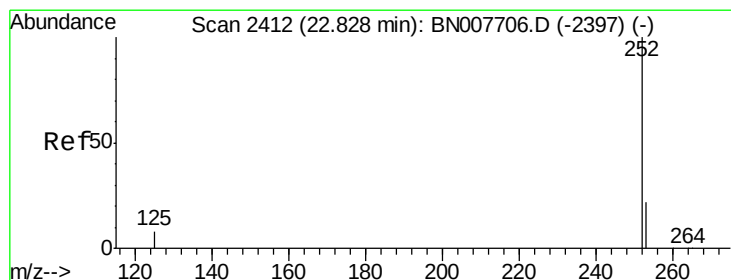
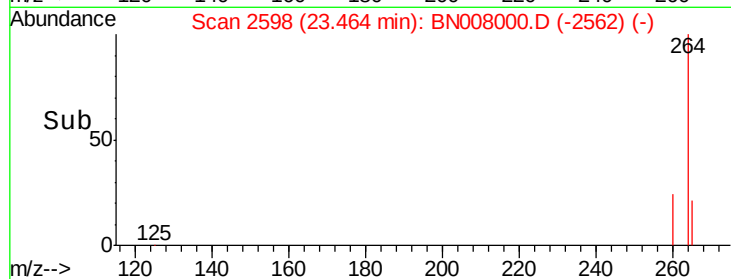
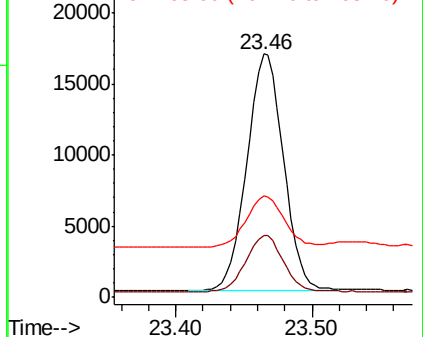


Abundance

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: 0.315 ng
RT: 22.81 min Scan# 2406
Delta R.T. -0.02 min
Lab File: BN008000.D
Acq: 04 Oct 2019 02:59

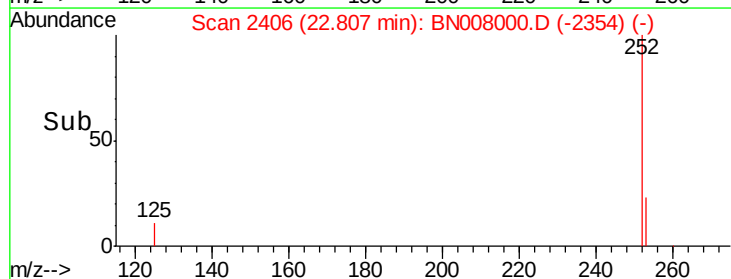
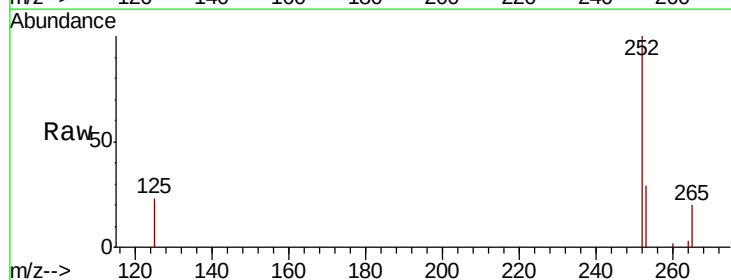
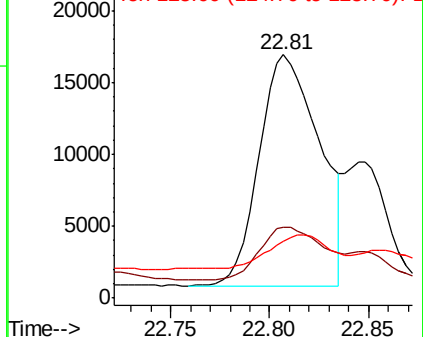
Tgt Ion	Ratio	Lower	Upper
252	100		
253	29.3	18.3	27.5
125	23.1	8.2	12.4

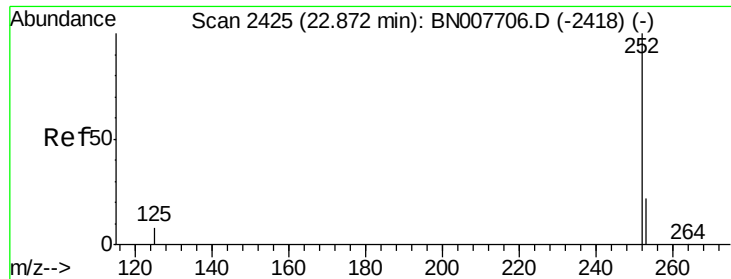
Abundance

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





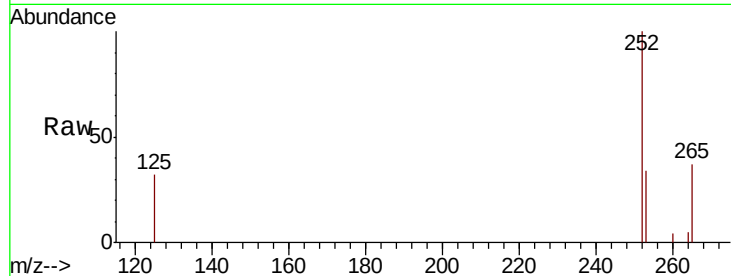
#36
Benzo(k)fluoranthene
Concen: 0.118 ng/mL
RT: 22.84 min Scan# 2417
Delta R.T. -0.03 min
Lab File: BN008000.D
Acq: 04 Oct 2019 02:59

Instrument :
BNA_N
ClientSampleId :
PST-024-B263-092519

Tot Ion	Ratio	Lower	Upper
252	100		
253	33.7	18.5	27.7#
125	32.1	8.4	12.6#

Manual Integrations
APPROVED

mohammad
10/7/2019 8:27:53 AM

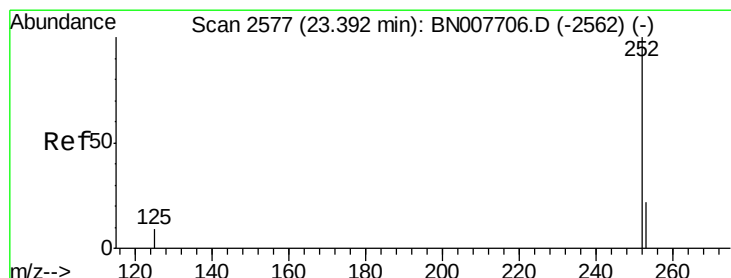
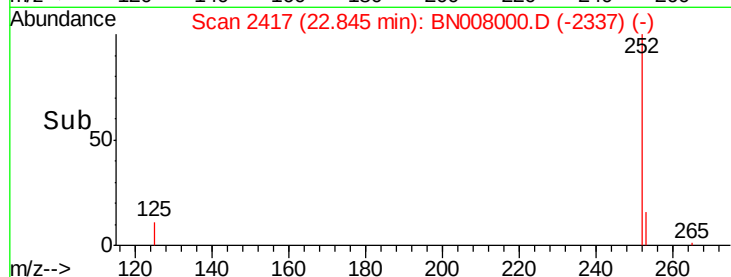
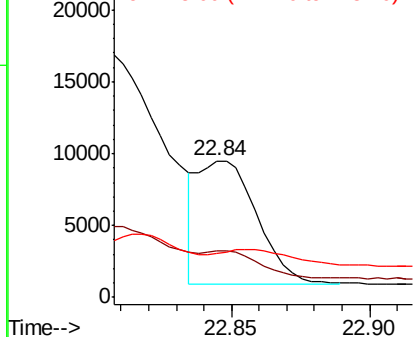


Abundance

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



#37
Benzo(a)pyrene
Concen: 0.228 ng/mL
RT: 23.37 min Scan# 2570
Delta R.T. -0.02 min
Lab File: BN008000.D
Acq: 04 Oct 2019 02:59

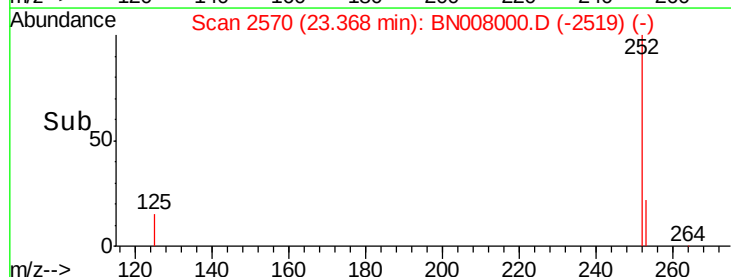
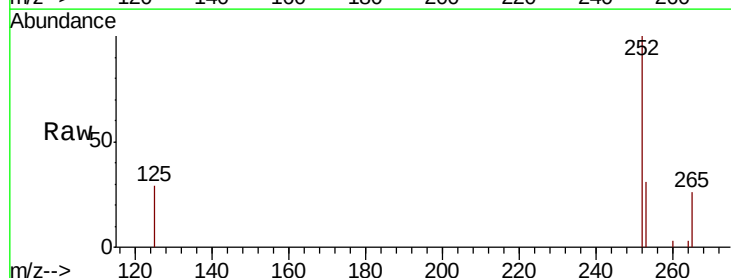
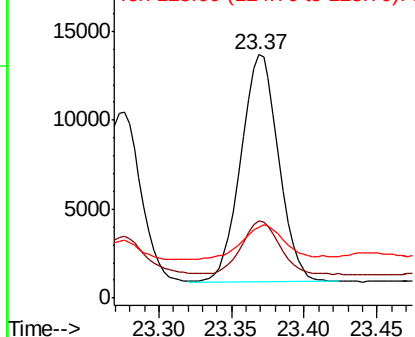
Tgt Ion	Ratio	Lower	Upper
252	100		
253	31.5	18.6	27.8#
125	29.3	9.4	14.0#

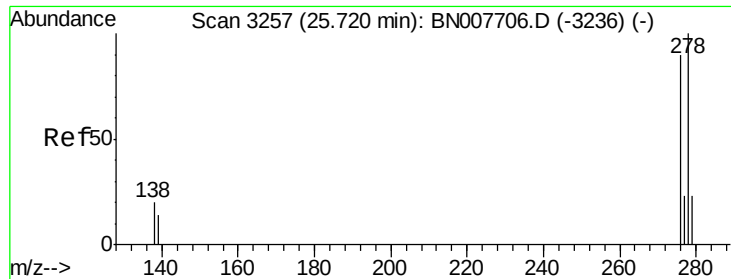
Abundance

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





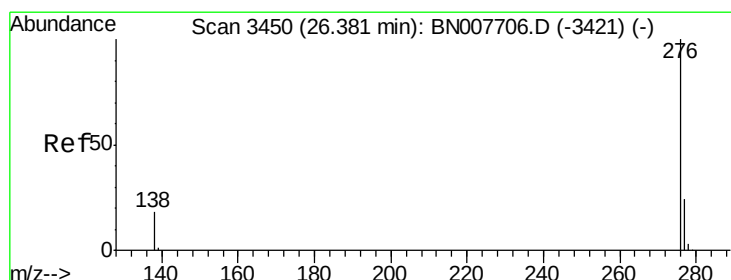
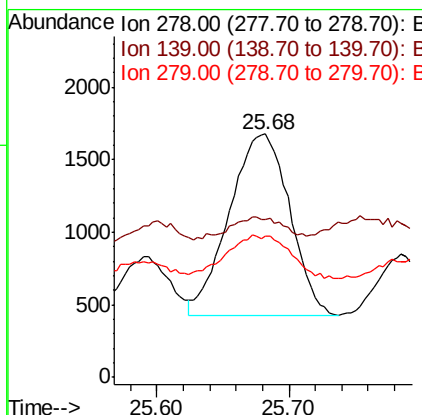
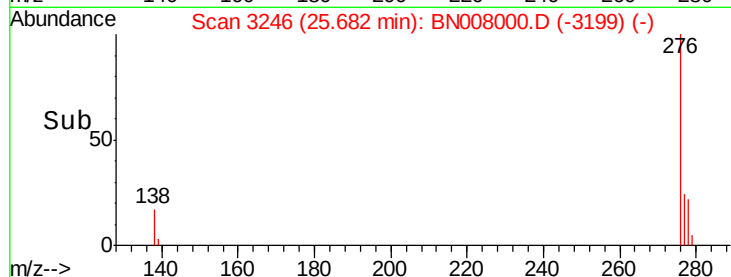
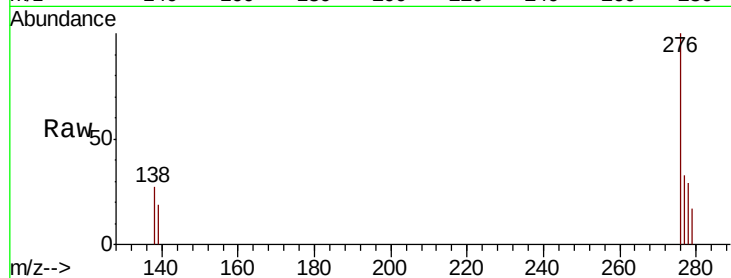
#38
Dibenzo(a,h)anthracene
Concen: 0.038 ng
RT: 25.68 min Scan# 3246
Delta R.T. -0.04 min
Lab File: BN008000.D
Acq: 04 Oct 2019 02:59

Instrument :
BNA_N
ClientSampleId :
PST-024-B263-092519

Tot Ion	Ratio	Lower	Upper
278	100		
139	65.1	11.8	17.6#
279	58.1	19.4	29.2#

Manual Integrations
APPROVED

mohammad
10/7/2019 8:27:53 AM



#39
Benzo(g,h,i)perylene
Concen: 0.164 ng
RT: 26.35 min Scan# 3441
Delta R.T. -0.03 min
Lab File: BN008000.D
Acq: 04 Oct 2019 02:59

Tgt Ion	Ratio	Lower	Upper
276	100		
277	31.6	19.8	29.8#
138	26.7	15.1	22.7#

