

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN092719\
 Data File : BN007885.D
 Acq On : 27 Sep 2019 13:30
 Operator : JU
 Sample : K4994-03DL 25X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-SW092-091819-1DL

Manual Integrations
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mohammad
 9/30/2019 8:15:53 AM

Quant Time: Sep 27 16:33:09 2019

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

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Sep 18 18:24:40 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.69	152	7796	0.40	ng	0.00
7) Naphthalene-d8	10.46	136	31734	0.40	ng	-0.01
13) Acenaphthene-d10	14.31	164	19914	0.40	ng	-0.01
19) Phenanthrene-d10	17.06	188	42465	0.40	ng	-0.01
27) Chrysene-d12	21.26	240	45012	0.40	ng	-0.01
34) Perylene-d12	23.47	264	49752	0.40	ng	-0.02

System Monitoring Compounds

4) 2-Fluorophenol	5.31	112	244	0.01	ng	0.00
5) Phenol-d6	6.87	99	339	0.00	ng	0.00
8) Nitrobenzene-d5	8.83	82	338	0.01	ng	0.00
11) 2-Methylnaphthalene-d10	12.05	152	464	0.01	ng	-0.01
14) 2,4,6-Tribromophenol	15.81	330	89	0.01	ng	-0.01
15) 2-Fluorobiphenyl	12.93	172	745	0.01	ng	-0.01
25) Fluoranthene-d10	19.09	212	1231	0.01	ng	-0.01
29) Terphenyl-d14	19.70	244	1467	0.01	ng	-0.01

Target Compounds

						Qvalue
9) Naphthalene	10.51	128	6360	0.071	ng	# 94
12) 2-Methylnaphthalene	12.13	142	5299	0.088	ng	98
16) Acenaphthylene	14.03	152	40865	0.387	ng	99
17) Acenaphthene	14.38	154	6184	0.091	ng	96
18) Fluorene	15.36	166	13123	0.150	ng	89
23) Phenanthrene	17.10	178	377175	2.851	ng	100
24) Anthracene	17.19	178	58316	0.488	ng	98
26) Fluoranthene	19.12	202	578244	3.515	ng	99
28) Pyrene	19.49	202	846452	5.514	ng	# 96
30) Benzo(a)anthracene	21.24	228	392621	2.369	ng	97
31) Chrysene	21.29	228	460744	2.852	ng	99
32) Bis(2-ethylhexyl)phthalate	21.19	149	14557	0.171	ng	# 89
33) Indeno(1,2,3-cd)pyrene	25.68	276	193298	0.956	ng	97
35) Benzo(b)fluoranthene	22.82	252	412876	2.390	ng	100
36) Benzo(k)fluoranthene	22.86	252	121873m	0.714	ng	
37) Benzo(a)pyrene	23.38	252	330881	2.039	ng	98
38) Dibenzo(a,h)anthracene	25.69	278	59865	0.360	ng	# 92
39) Benzo(a,h,i)perylene	26.35	276	229159	1.394	ng	99

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

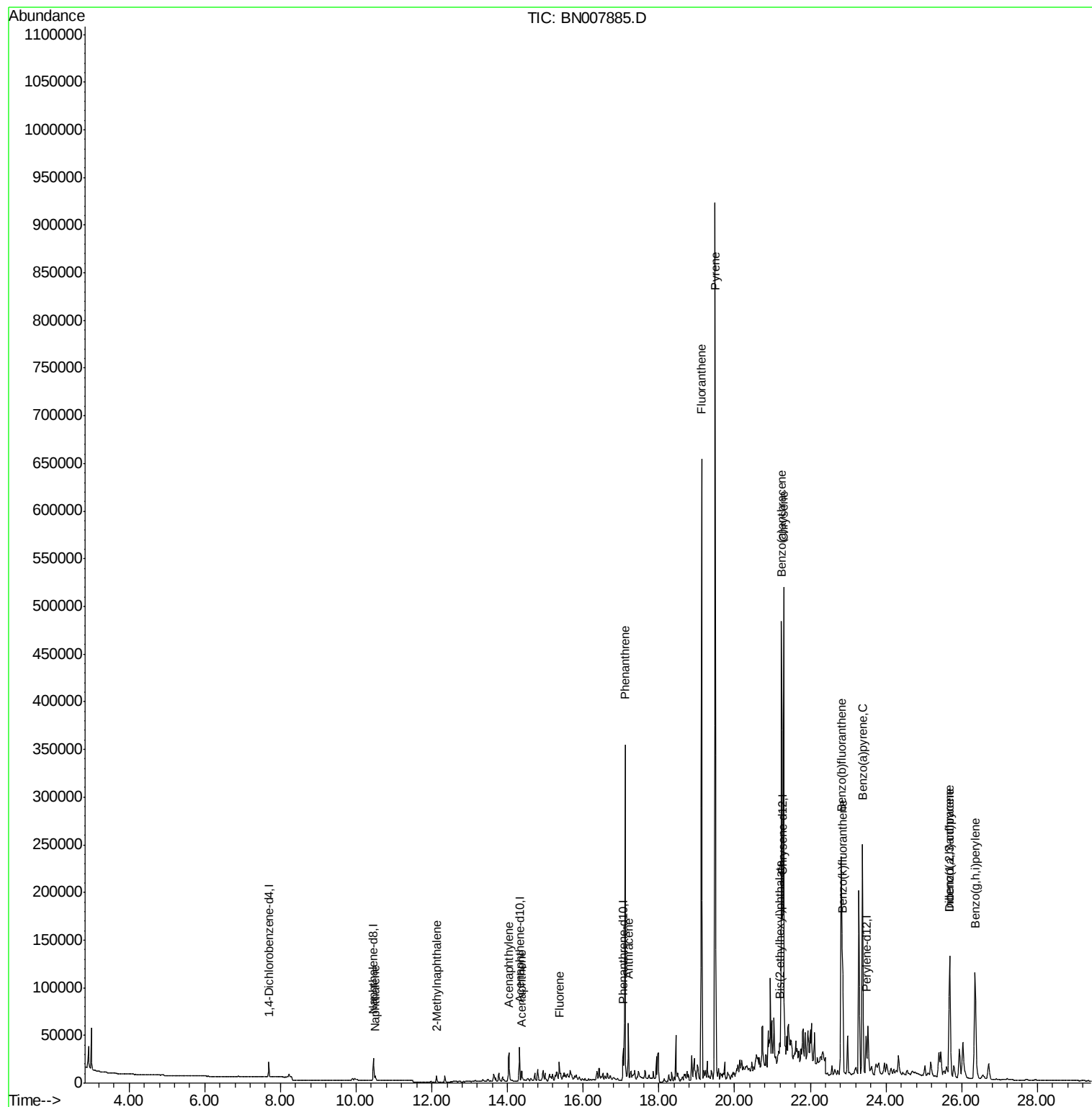
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN092719\
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#1

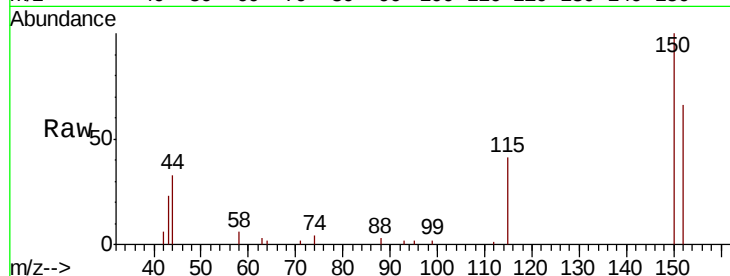
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.69 min Scan# 604
Delta R.T. -0.01 min
Lab File: BN007885.D
Acq: 27 Sep 2019 13:30

Instrument :
BNA_N
ClientSampleId :
EXT-SW092-091819-1DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	150.5	125.6	188.4
115	61.4	53.3	79.9

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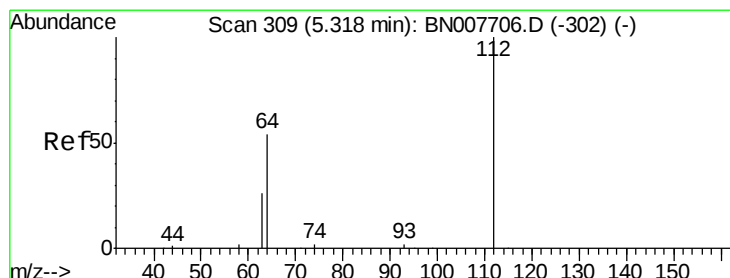
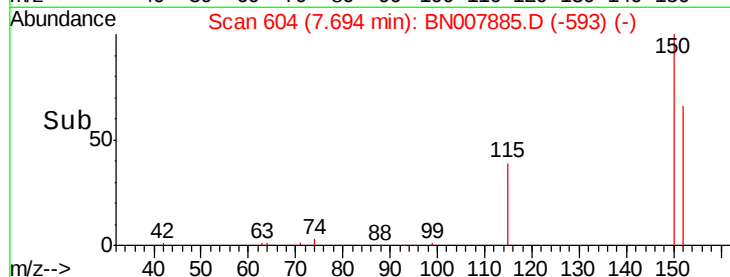
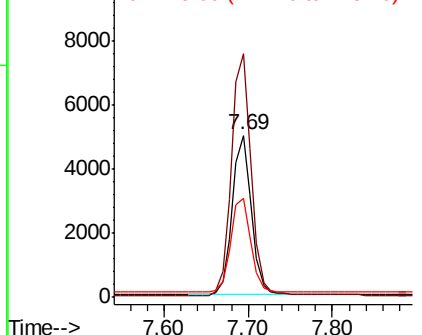


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

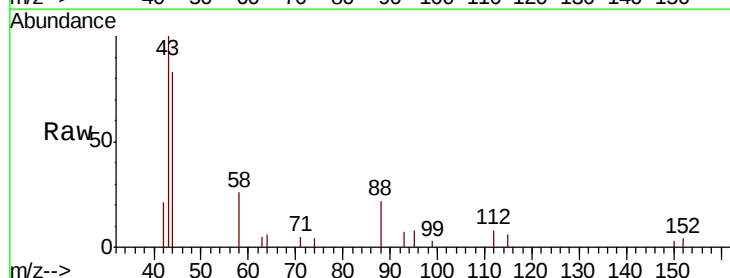
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.009 ng
RT: 5.31 min Scan# 308
Delta R.T. -0.01 min
Lab File: BN007885.D
Acq: 27 Sep 2019 13:30

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.6	46.6	70.0
63	29.5	23.1	34.7

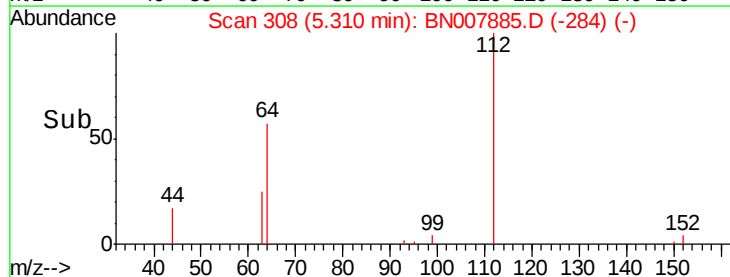
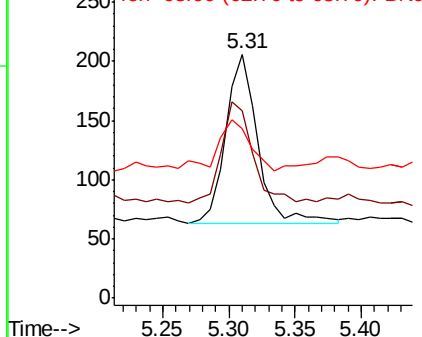


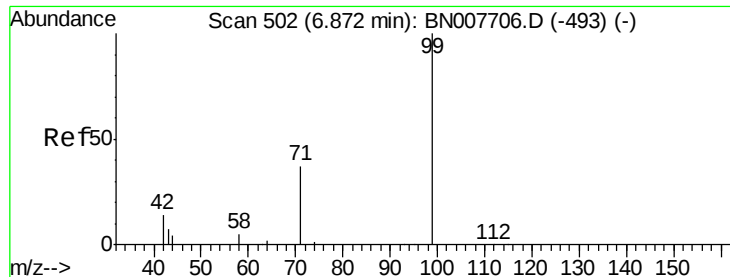
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BNC

Ion 63.00 (62.70 to 63.70): BNC





#5

Phenol-d6

Concen: 0.004 ng

RT: 6.87 min Scan# 502

Delta R.T. 0.00 min

Lab File: BN007885.D

Acq: 27 Sep 2019 13:30

Instrument :

BNA_N

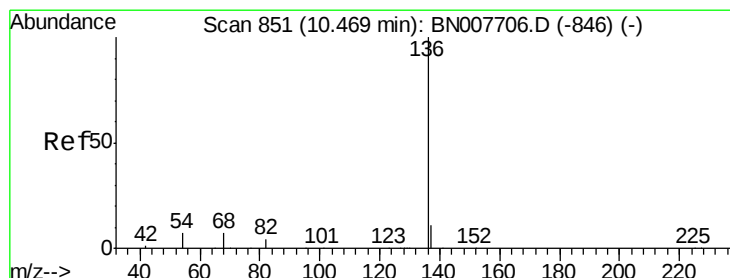
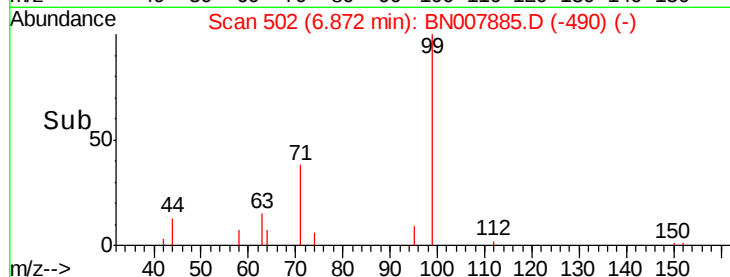
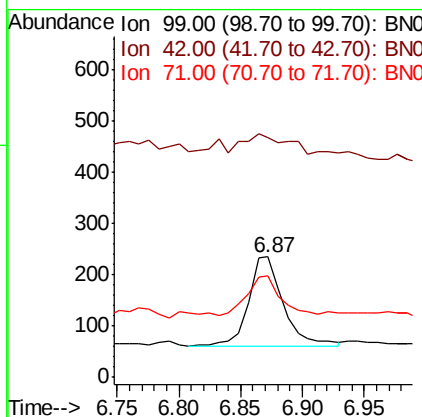
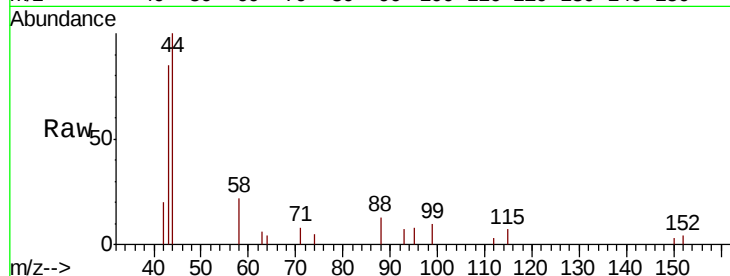
ClientSampleId :

EXT-SW092-091819-1DL

Tot Ion:	99	Resp:	339
Ion	Ratio	Lower	Upper
99	100		
42	26.3	12.8	19.2#
71	43.7	27.6	41.4#

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#7

Naphthalene-d8

Concen: 0.400 ng

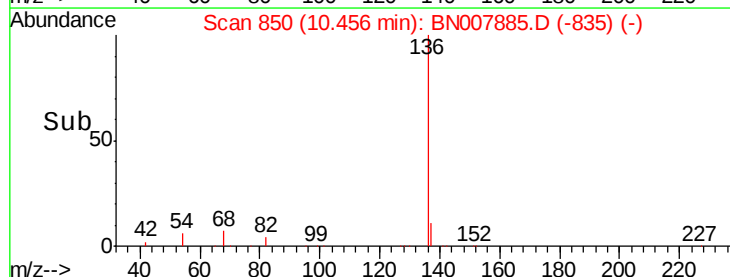
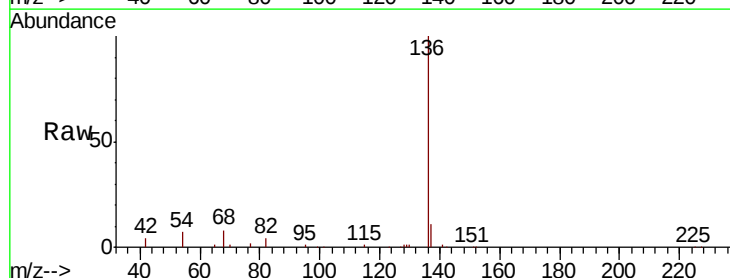
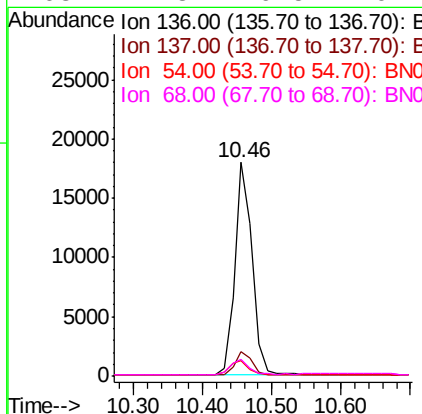
RT: 10.46 min Scan# 850

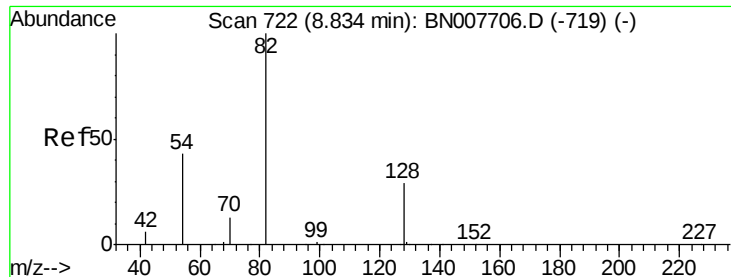
Delta R.T. -0.01 min

Lab File: BN007885.D

Acq: 27 Sep 2019 13:30

Tgt Ion:	136	Resp:	31734
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.2	13.8
54	7.1	5.8	8.8
68	7.8	6.5	9.7





#8

Nitrobenzene-d5

Concen: 0.012 ng

RT: 8.83 min Scan# 722

Delta R.T. -0.00 min

Lab File: BN007885.D

Acq: 27 Sep 2019 13:30

Instrument :

BNA_N

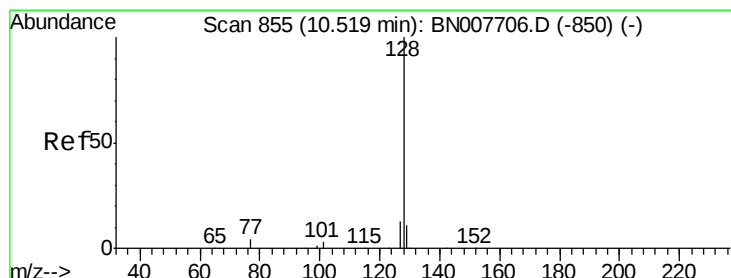
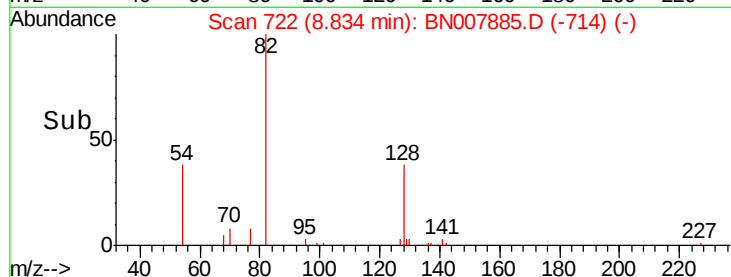
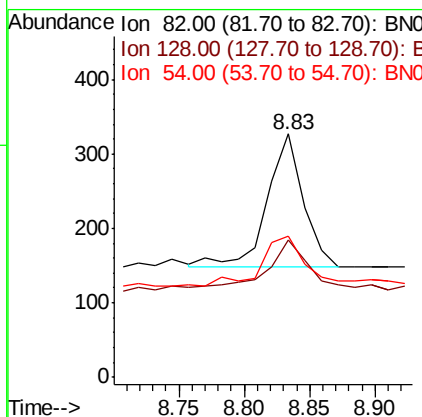
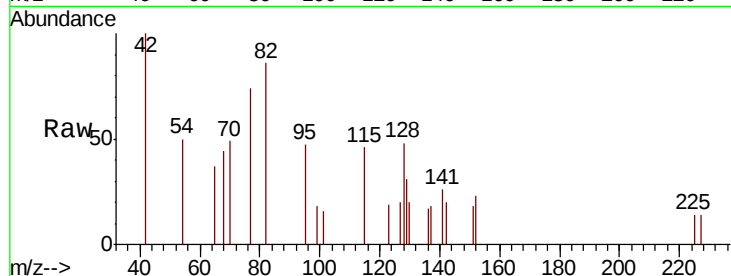
ClientSampleId :

EXT-SW092-091819-1DL

Tot Ion:	82	Resp:	338
Ion Ratio	Lower	Upper	
82	100		
128	56.3	24.5	36.7#
54	58.1	35.2	52.8#

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#9

Naphthalene

Concen: 0.071 ng

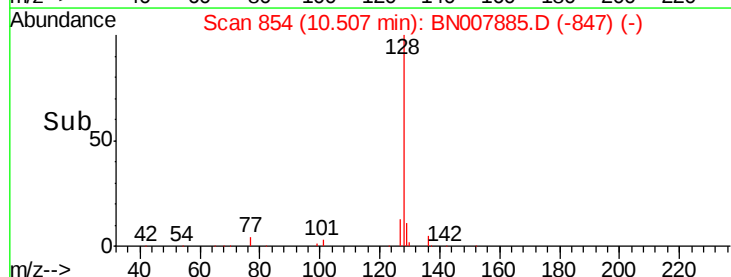
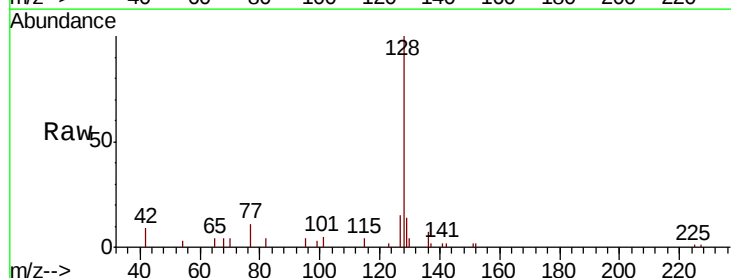
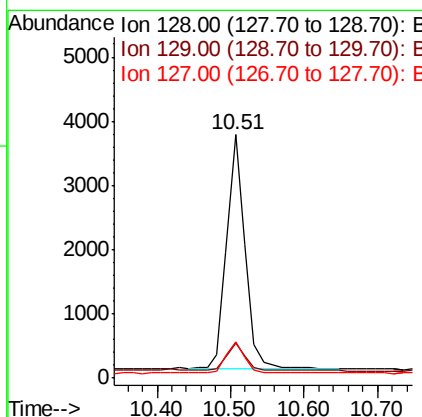
RT: 10.51 min Scan# 854

Delta R.T. -0.01 min

Lab File: BN007885.D

Acq: 27 Sep 2019 13:30

Tgt Ion:	128	Resp:	6360
Ion Ratio	Lower	Upper	
128	100		
129	14.3	9.1	13.7#
127	14.9	10.6	15.8





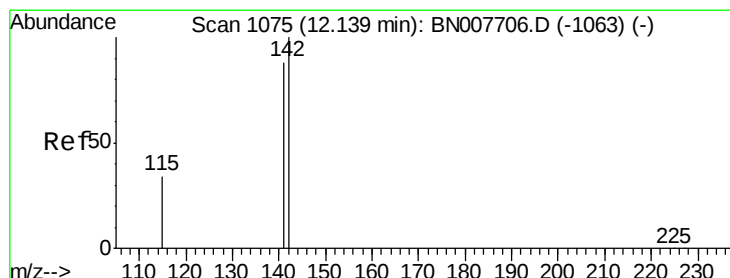
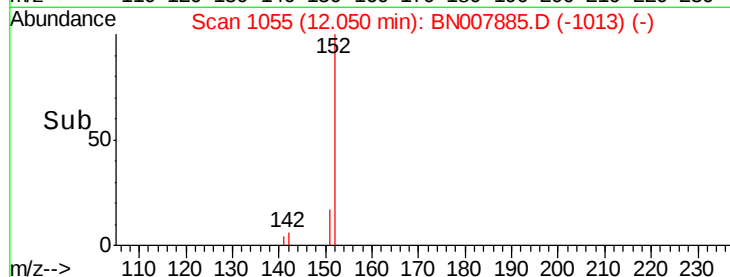
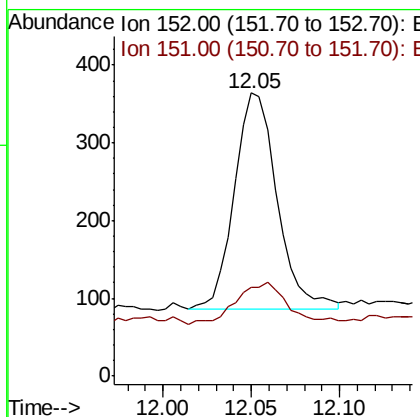
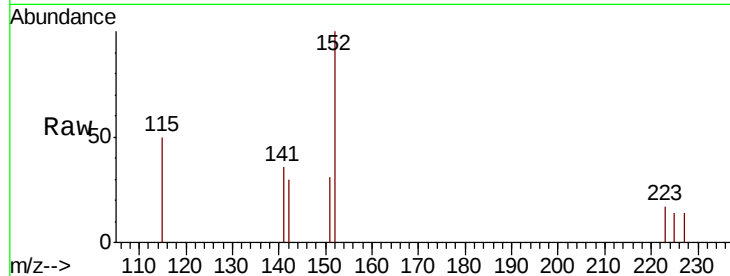
#11
2-Methylnaphthalene-d10
Concen: 0.009 ng
RT: 12.05 min Scan# 1055
Delta R.T. -0.01 min
Lab File: BN007885.D
Acq: 27 Sep 2019 13:30

Instrument :
BNA_N
ClientSampleId :
EXT-SW092-091819-1DL

Tot Ion	Ratio	Lower	Upper
152	100		
151	23.5	15.4	23.2#

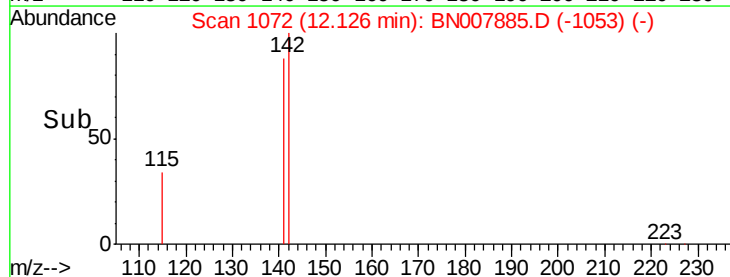
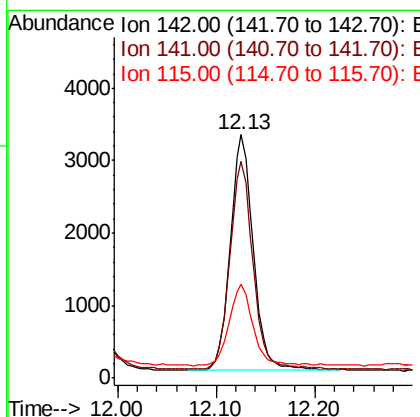
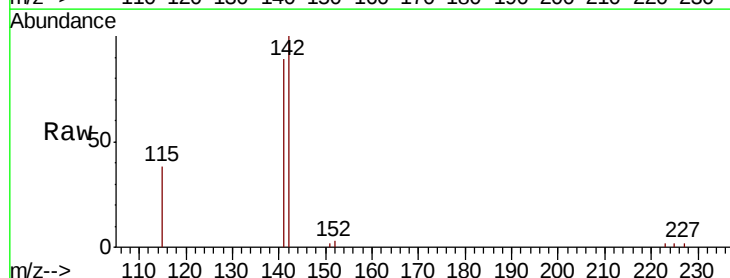
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#12
2-Methylnaphthalene
Concen: 0.088 ng
RT: 12.13 min Scan# 1072
Delta R.T. -0.01 min
Lab File: BN007885.D
Acq: 27 Sep 2019 13:30

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.0	70.6	106.0
115	38.4	28.3	42.5





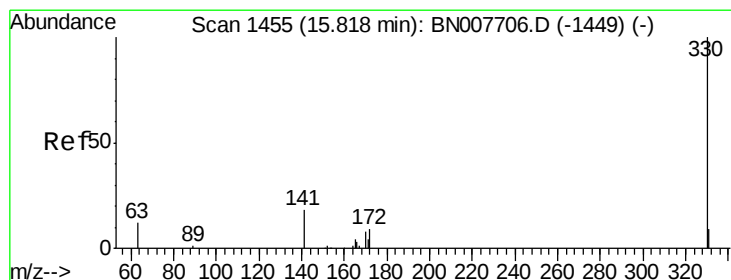
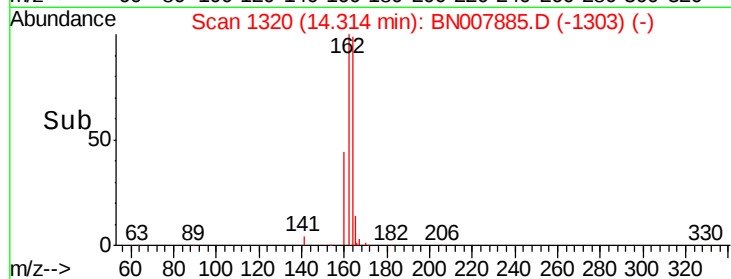
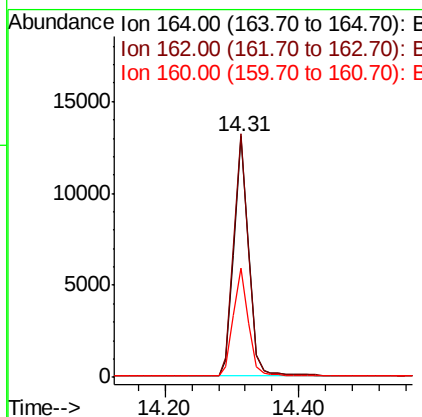
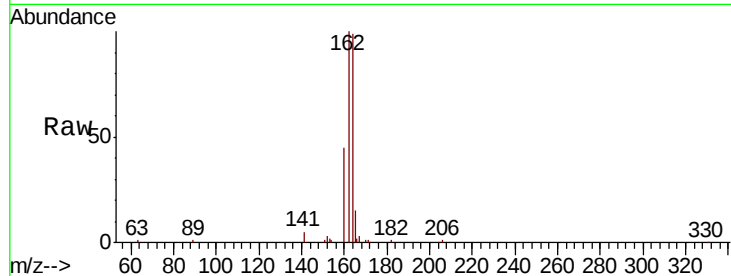
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.31 min Scan# 1320
Delta R.T. -0.01 min
Lab File: BN007885.D
Acq: 27 Sep 2019 13:30

Instrument :
BNA_N
ClientSampleId :
EXT-SW092-091819-1DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.3	81.7	122.5
160	45.4	37.0	55.4

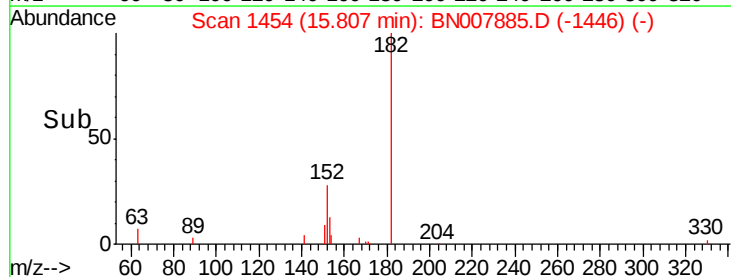
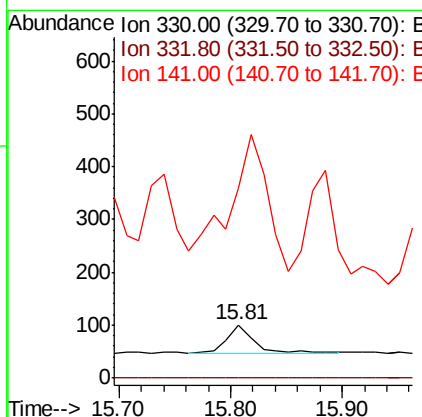
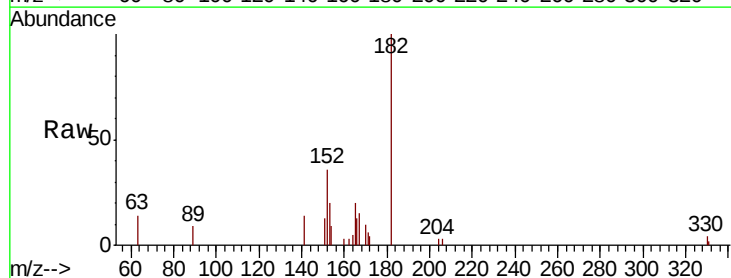
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#14
2,4,6-Tribromophenol
Concen: 0.008 ng
RT: 15.81 min Scan# 1454
Delta R.T. -0.01 min
Lab File: BN007885.D
Acq: 27 Sep 2019 13:30

Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	694.4	28.7	43.1#





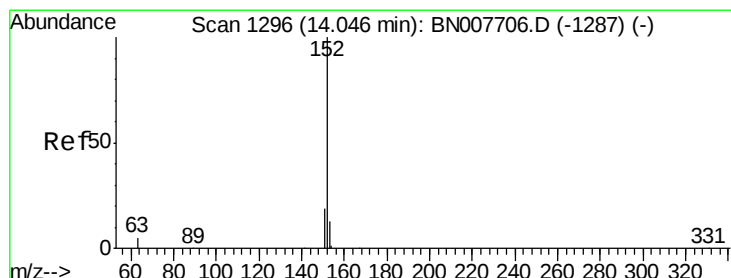
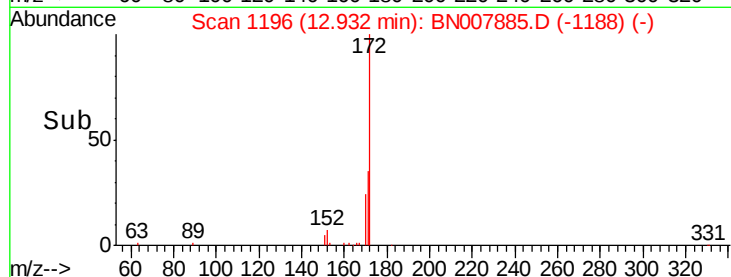
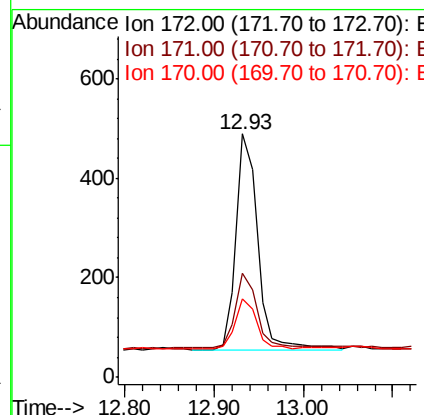
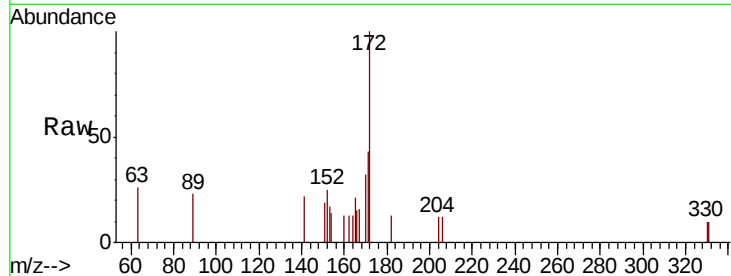
#15
2-Fluorobiphenyl
Concen: 0.009 ng
RT: 12.93 min Scan# 1196
Delta R.T. -0.01 min
Lab File: BN007885.D
Acq: 27 Sep 2019 13:30

Instrument :
BNA_N
ClientSampleId :
EXT-SW092-091819-1DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	42.7	28.8	43.2
170	32.3	19.5	29.3

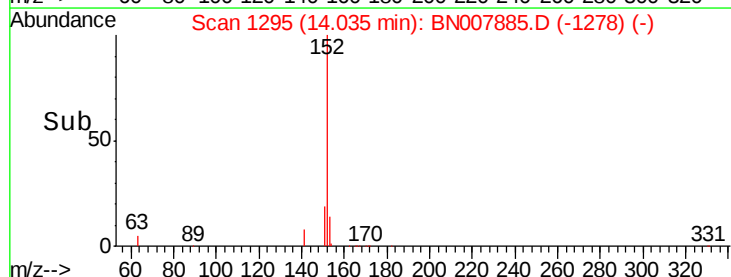
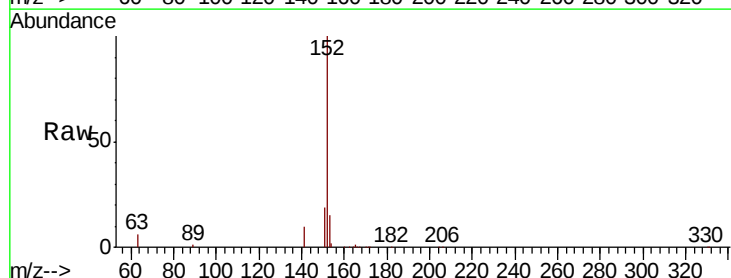
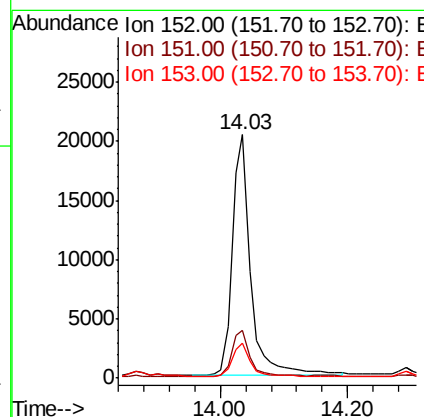
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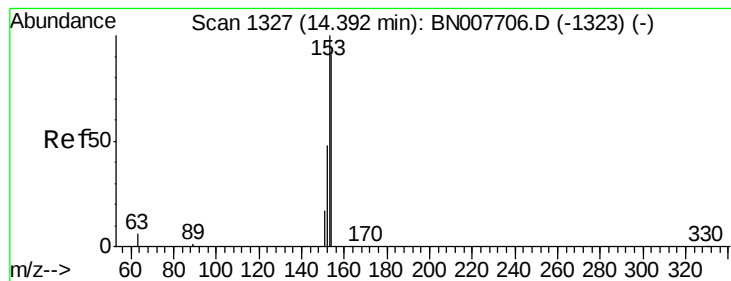
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#16
Acenaphthylene
Concen: 0.387 ng
RT: 14.03 min Scan# 1295
Delta R.T. -0.01 min
Lab File: BN007885.D
Acq: 27 Sep 2019 13:30

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.5	23.3
153	14.1	10.4	15.6





#17

Acenaphthene

Concen: 0.091 ng

RT: 14.38 min Scan# 1326

Delta R.T. -0.01 min

Lab File: BN007885.D

Acq: 27 Sep 2019 13:30

Instrument :

BNA_N

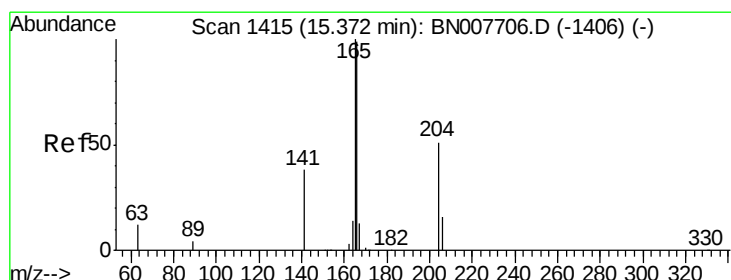
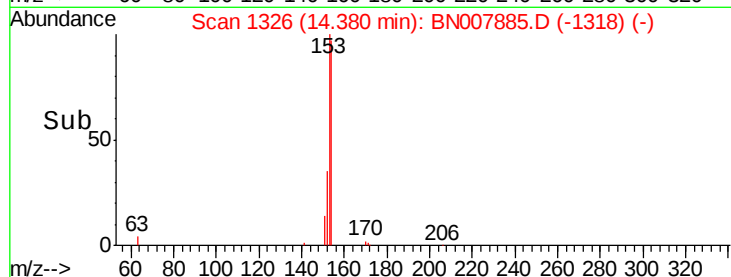
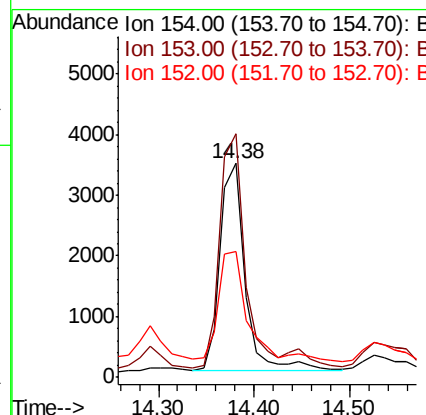
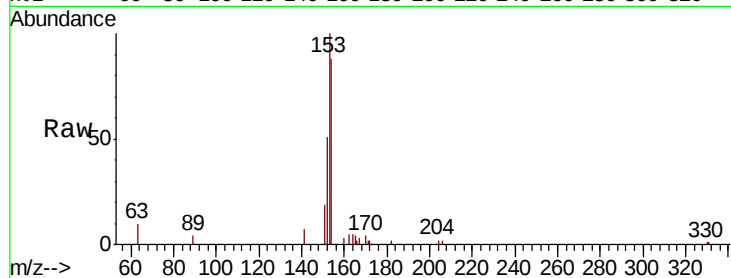
ClientSampleId :

EXT-SW092-091819-1DL

Tot Ion	Ratio	Lower	Upper
154	100		
153	113.2	87.0	130.4
152	56.3	42.7	64.1

Manual Integrations
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#18

Fluorene

Concen: 0.150 ng

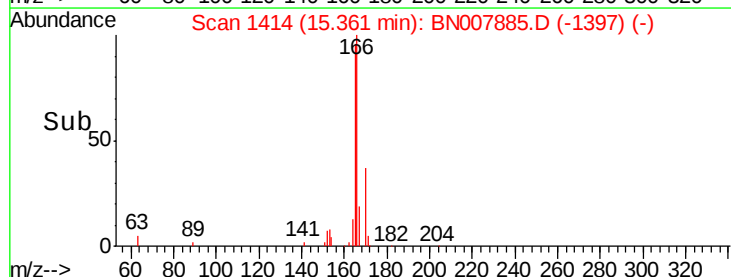
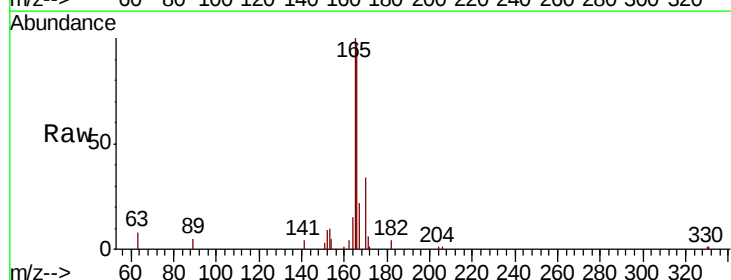
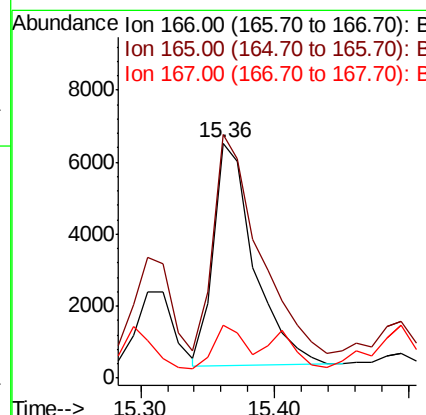
RT: 15.36 min Scan# 1414

Delta R.T. -0.01 min

Lab File: BN007885.D

Acq: 27 Sep 2019 13:30

Tgt Ion	Ratio	Lower	Upper
166	100		
165	109.4	78.0	117.0
167	15.0	10.9	16.3





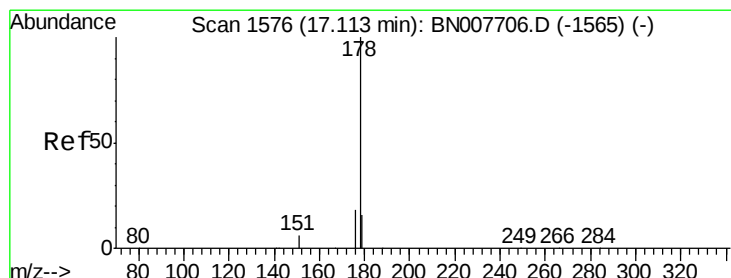
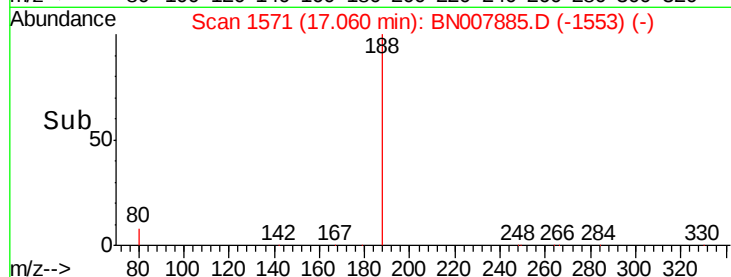
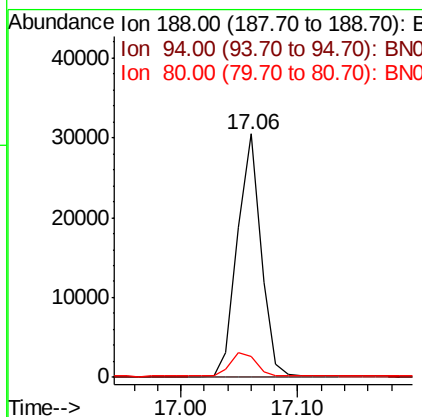
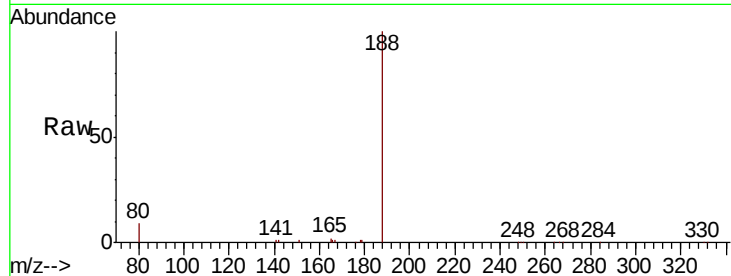
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.06 min Scan# 1571
Delta R.T. -0.01 min
Lab File: BN007885.D
Acq: 27 Sep 2019 13:30

Instrument :
BNA_N
ClientSampleId :
EXT-SW092-091819-1DL

Tot Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.7	7.4	11.2

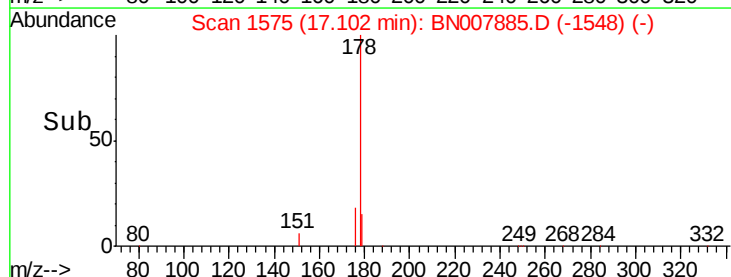
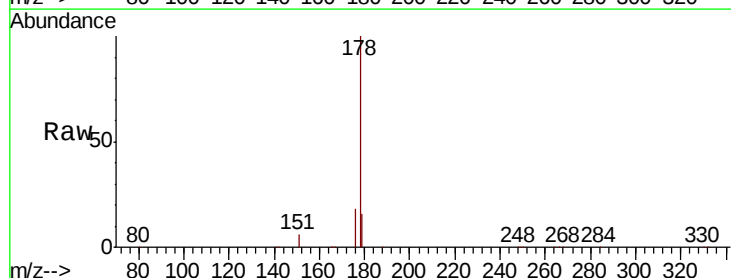
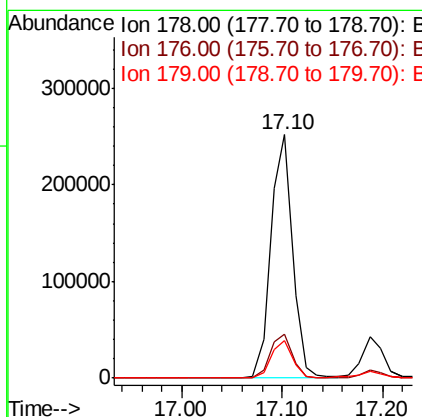
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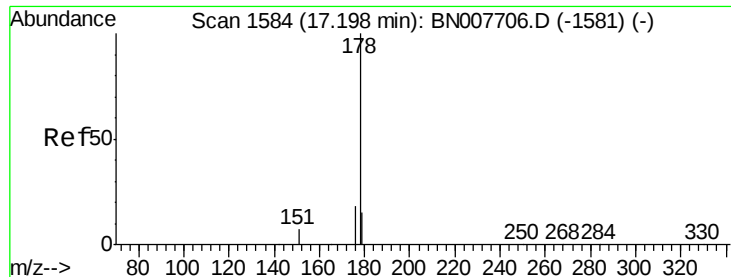
mohammad
9/30/2019 8:15:53 AM



#23
Phenanthrene
Concen: 2.851 ng
RT: 17.10 min Scan# 1575
Delta R.T. -0.01 min
Lab File: BN007885.D
Acq: 27 Sep 2019 13:30

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.9	22.3
179	15.6	12.5	18.7





#24

Anthracene

Concen: 0.488 ng

RT: 17.19 min Scan# 1583

Delta R.T. -0.01 min

Lab File: BN007885.D

Acq: 27 Sep 2019 13:30

Instrument :

BNA_N

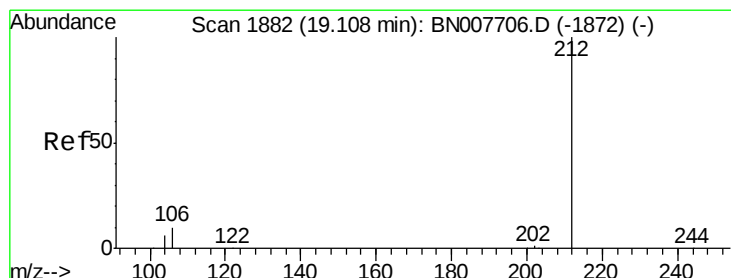
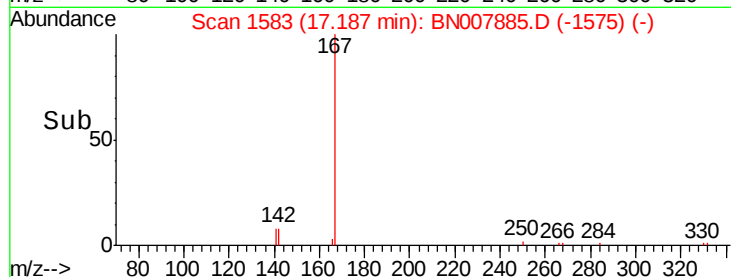
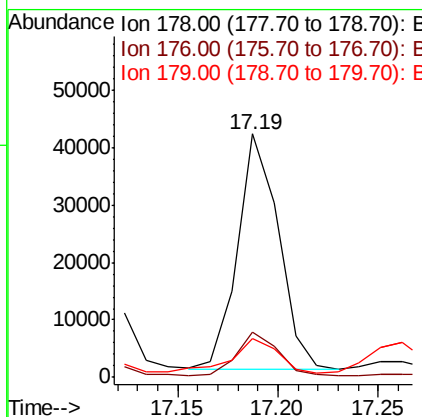
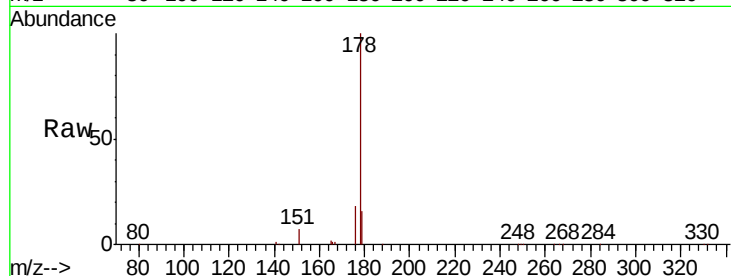
ClientSampleId :

EXT-SW092-091819-1DL

Tot Ion:	178	Resp:	58316
Ion Ratio	Lower	Upper	
178	100		
176	18.1	14.6	21.8
179	16.6	12.2	18.4

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#25

Fluoranthene-d10

Concen: 0.009 ng

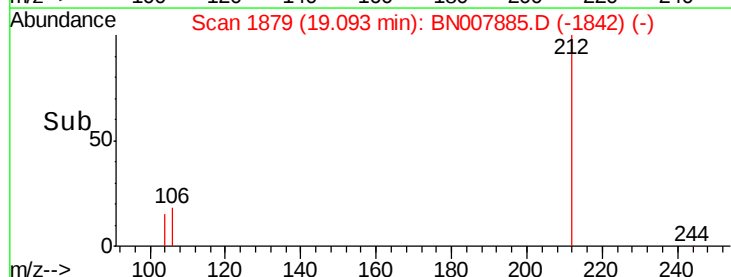
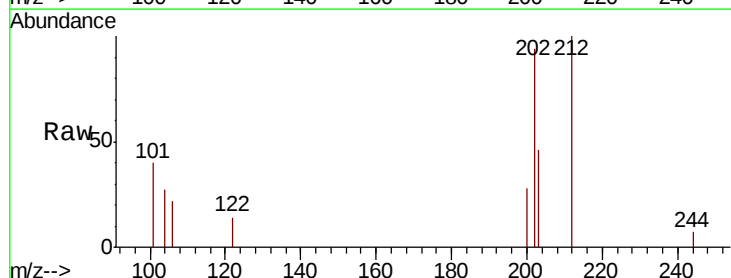
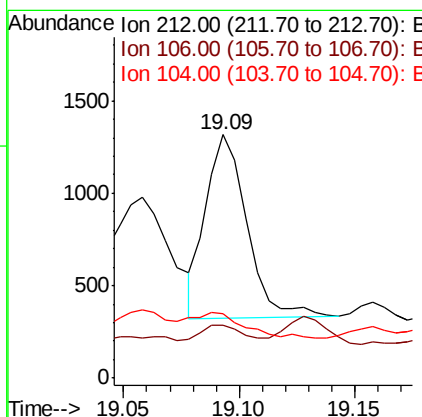
RT: 19.09 min Scan# 1879

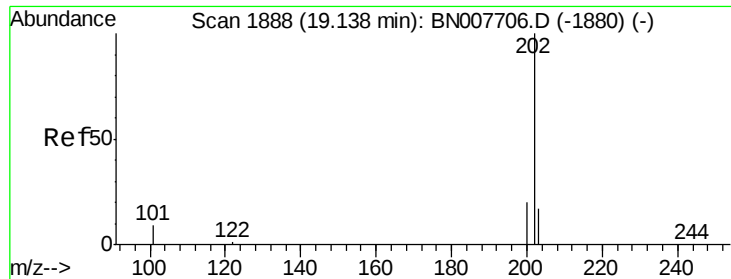
Delta R.T. -0.01 min

Lab File: BN007885.D

Acq: 27 Sep 2019 13:30

Tgt Ion:	212	Resp:	1231
Ion Ratio	Lower	Upper	
212	100		
106	11.1	9.4	14.0
104	18.5	5.3	7.9#





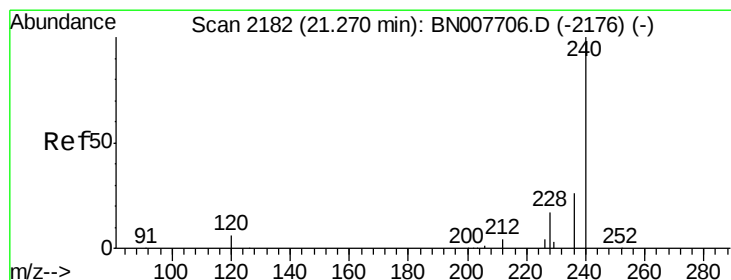
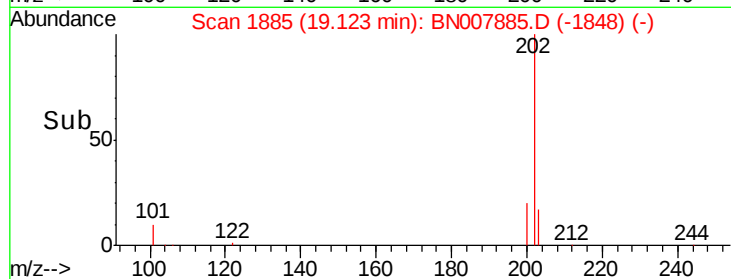
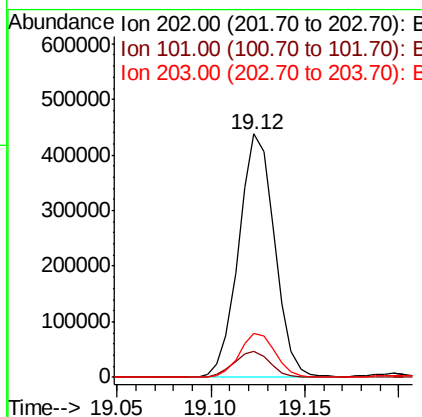
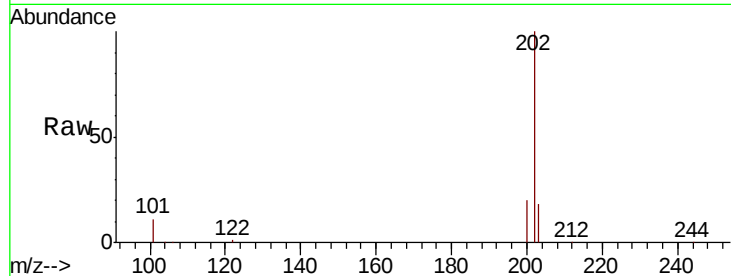
#26
 Fluoranthene
 Concen: 3.515 ng
 RT: 19.12 min Scan# 1885
 Delta R.T. -0.01 min
 Lab File: BN007885.D
 Acq: 27 Sep 2019 13:30

Instrument :
 BNA_N
 ClientSampleId :
 EXT-SW092-091819-1DL

Tot Ion:	202	Resp:	578244
Ion Ratio	Lower	Upper	
202	100		
101	10.6	8.4	12.6
203	18.0	13.8	20.8

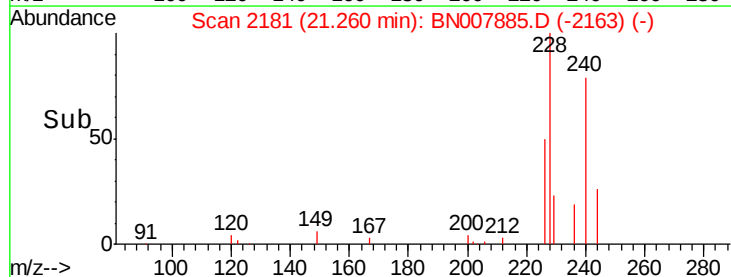
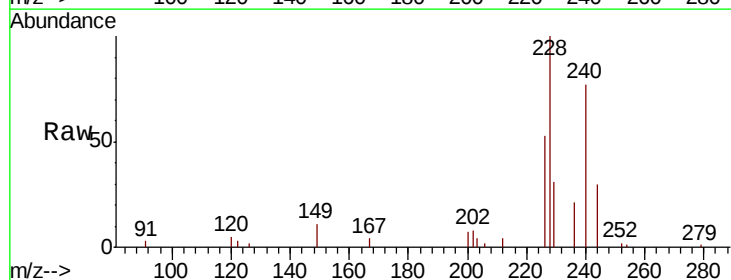
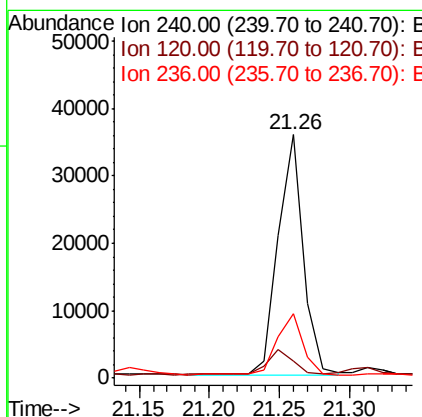
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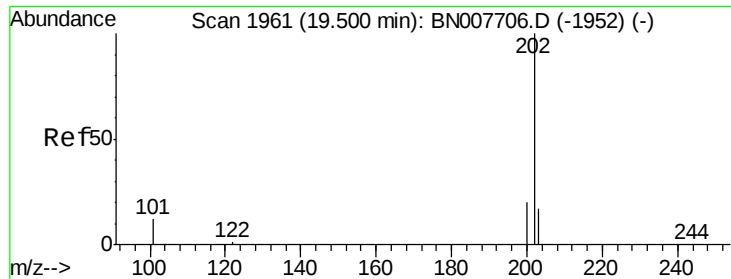
mohammad
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#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.26 min Scan# 2181
 Delta R.T. -0.01 min
 Lab File: BN007885.D
 Acq: 27 Sep 2019 13:30

Tgt Ion:	240	Resp:	45012
Ion Ratio	Lower	Upper	
240	100		
120	6.8	5.4	8.2
236	26.6	21.0	31.4





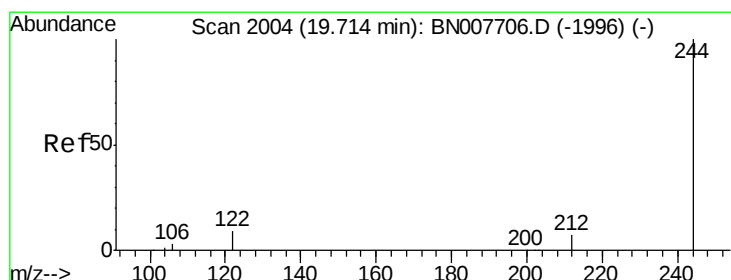
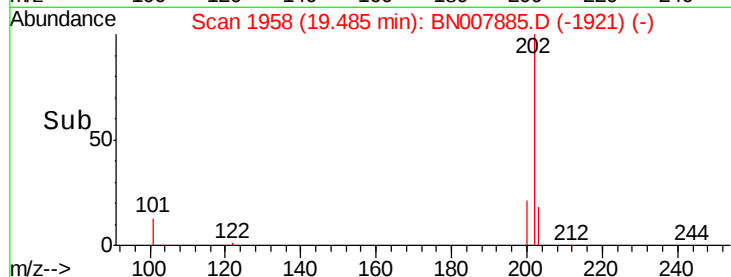
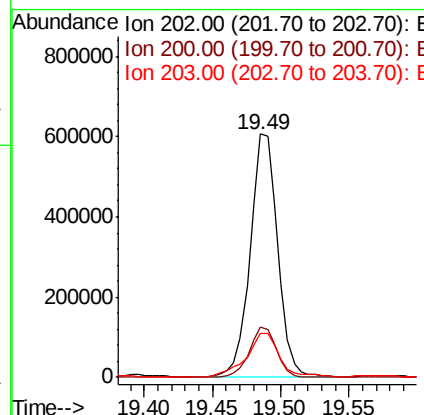
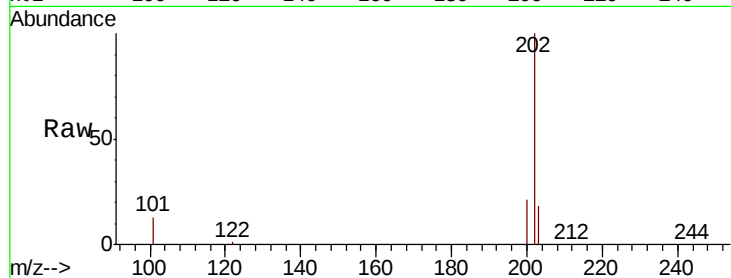
#28
Pvrene
Concen: 5.514 ng
RT: 19.49 min Scan# 1958
Delta R.T. -0.01 min
Lab File: BN007885.D
Acq: 27 Sep 2019 13:30

Instrument :
BNA_N
ClientSampleId :
EXT-SW092-091819-1DL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	20.4	16.4	24.6
203	21.4	14.1	21.1#

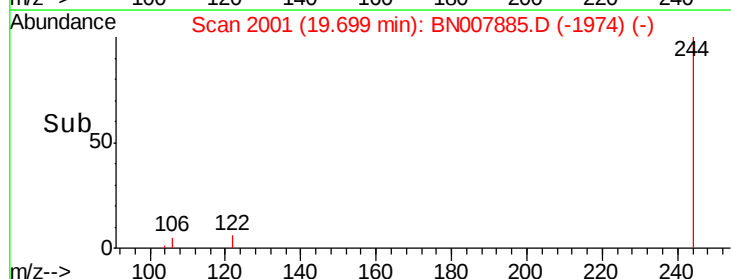
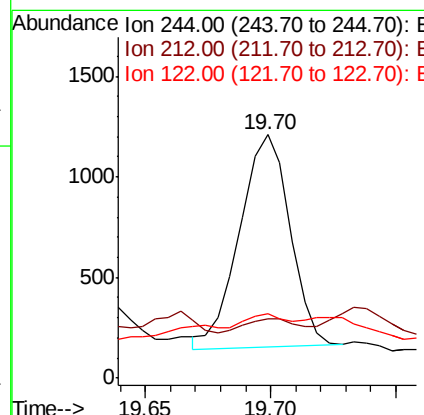
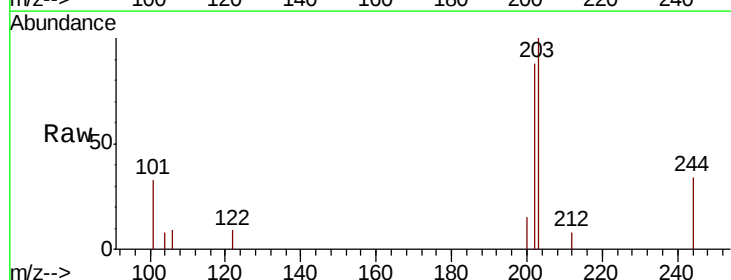
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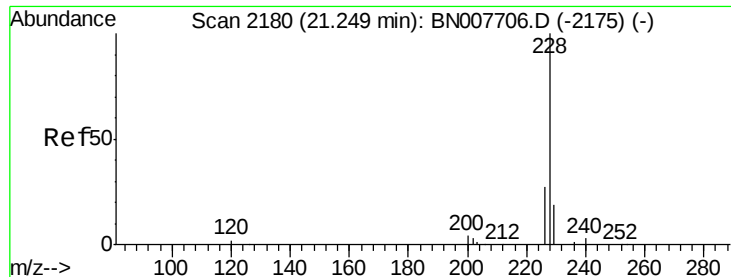
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#29
Terphenyl-d14
Concen: 0.013 ng
RT: 19.70 min Scan# 2001
Delta R.T. -0.01 min
Lab File: BN007885.D
Acq: 27 Sep 2019 13:30

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	24.4	5.9	8.9#
122	26.3	7.4	11.2#





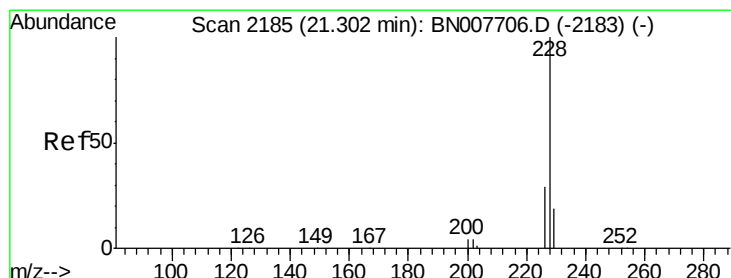
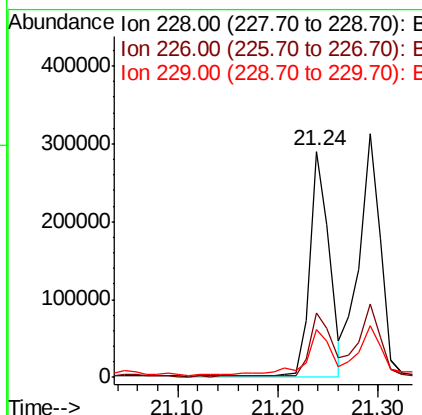
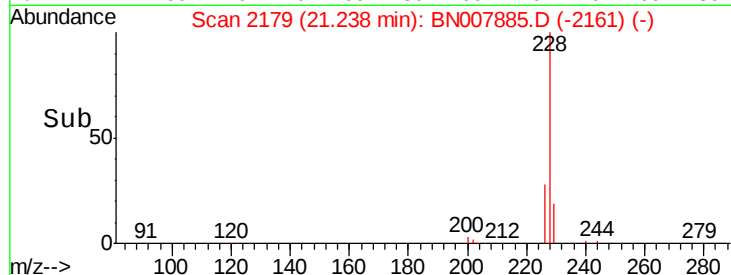
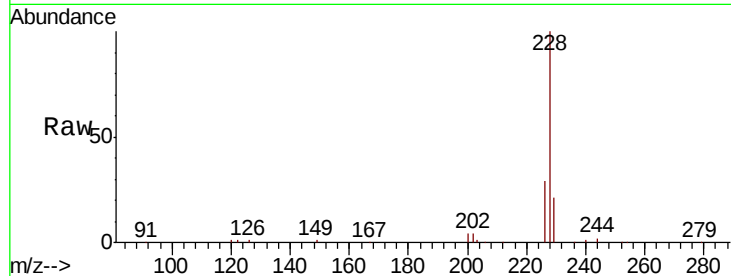
#30
Benzo(a)anthracene
Concen: 2.369 ng
RT: 21.24 min Scan# 2179
Delta R.T. -0.01 min
Lab File: BN007885.D
Acq: 27 Sep 2019 13:30

Instrument :
BNA_N
ClientSampleId :
EXT-SW092-091819-1DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.1	33.1
229	21.2	15.8	23.6

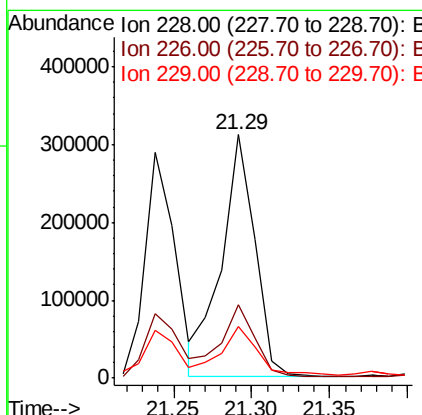
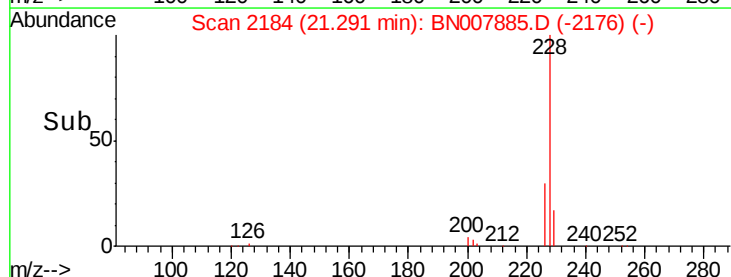
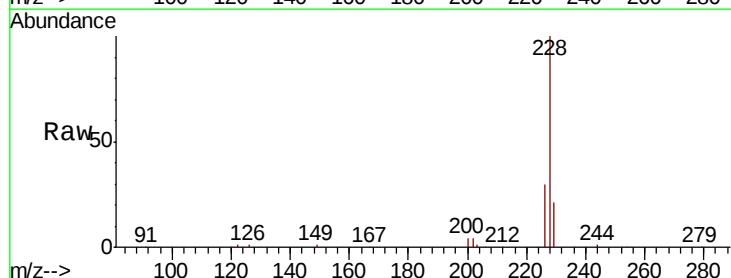
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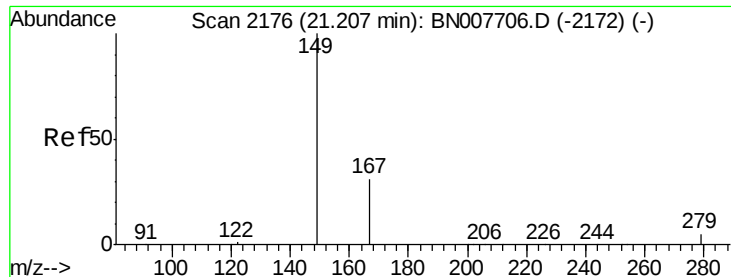
mohammad
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#31
Chrysene
Concen: 2.852 ng
RT: 21.29 min Scan# 2184
Delta R.T. -0.01 min
Lab File: BN007885.D
Acq: 27 Sep 2019 13:30

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	23.9	35.9
229	21.1	15.8	23.6





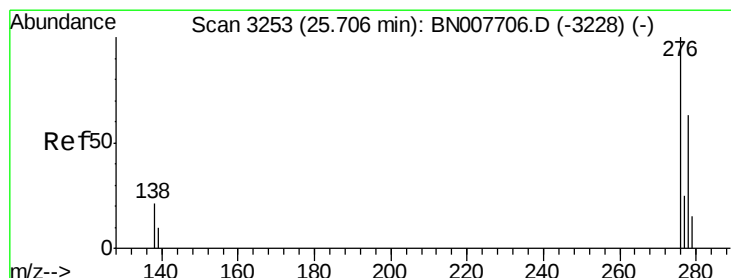
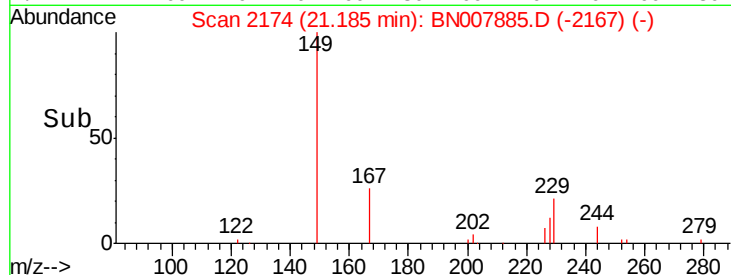
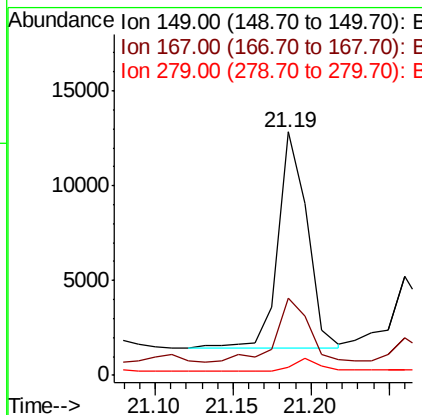
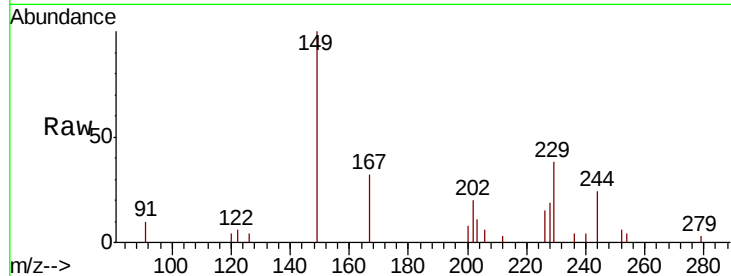
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.171 ng
 RT: 21.19 min Scan# 2174
 Delta R.T. -0.02 min
 Lab File: BN007885.D
 Acq: 27 Sep 2019 13:30

Instrument :
 BNA_N
 ClientSampleId :
 EXT-SW092-091819-1DL

Tot Ion	Ratio	Lower	Upper
149	100		
167	36.2	23.7	35.5#
279	6.0	4.2	6.2

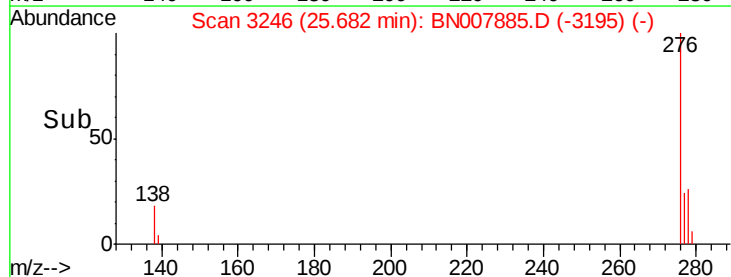
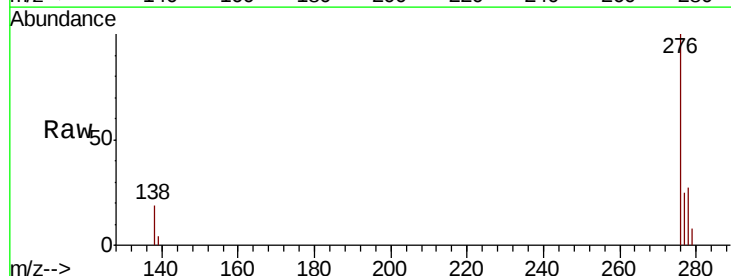
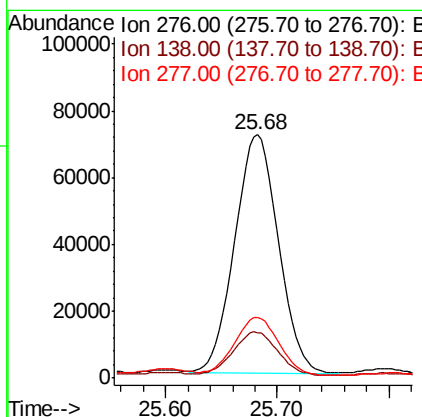
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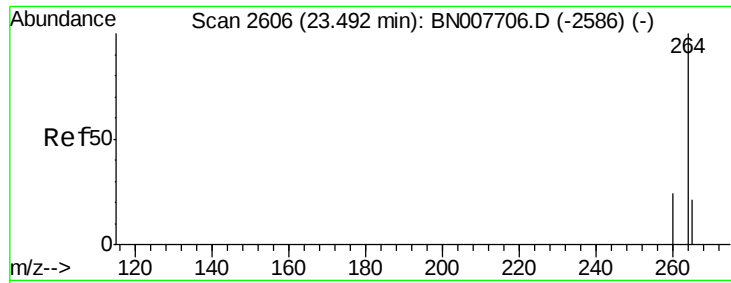
mohammad
 9/30/2019 8:15:53 AM



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.956 ng
 RT: 25.68 min Scan# 3246
 Delta R.T. -0.02 min
 Lab File: BN007885.D
 Acq: 27 Sep 2019 13:30

Tgt Ion	Ratio	Lower	Upper
276	100		
138	18.8	17.1	25.7
277	24.8	20.0	30.0





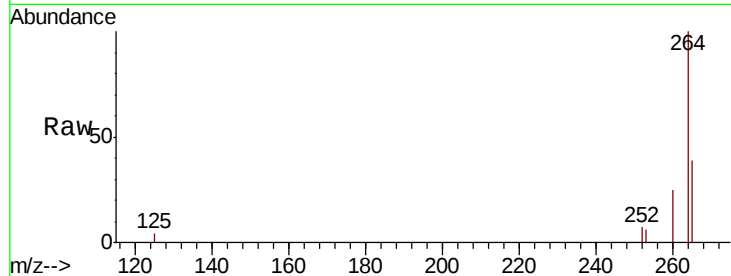
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.47 min Scan# 2601
Delta R.T. -0.02 min
Lab File: BN007885.D
Acq: 27 Sep 2019 13:30

Instrument :
BNA_N
ClientSampleId :
EXT-SW092-091819-1DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.3	28.9
265	39.3	26.9	40.3

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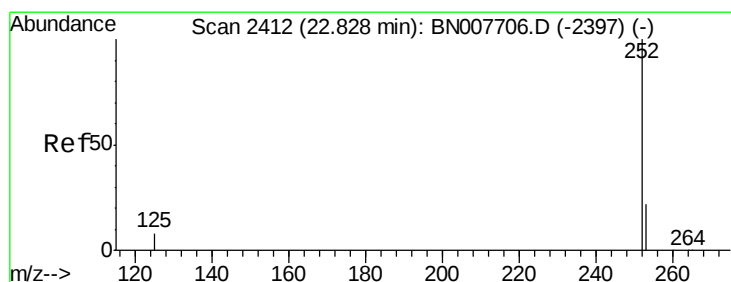
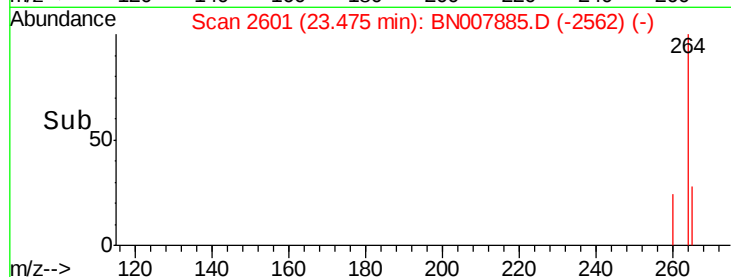
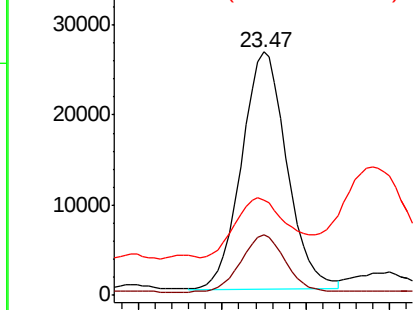


Abundance

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: 2.390 ng
RT: 22.82 min Scan# 2409
Delta R.T. -0.01 min
Lab File: BN007885.D
Acq: 27 Sep 2019 13:30

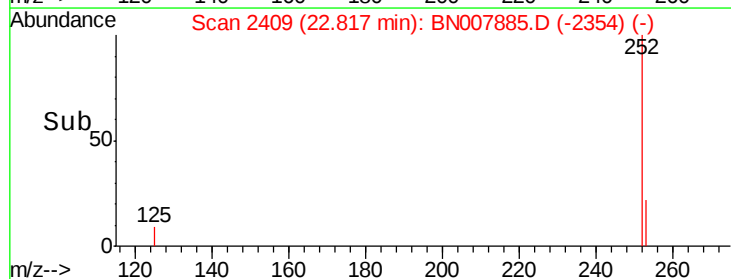
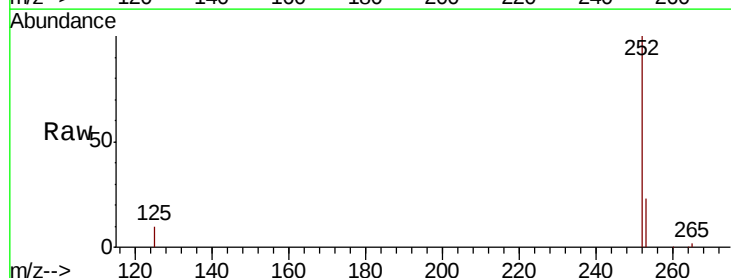
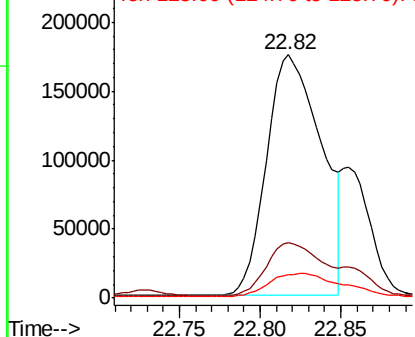
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.3	27.5
125	9.8	8.2	12.4

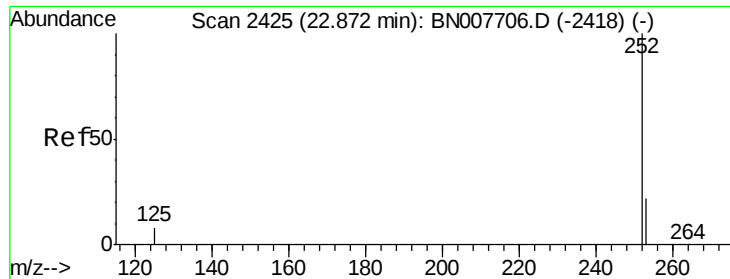
Abundance

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: 0.714 ng/mL

RT: 22.86 min Scan# 2420

Delta R.T. -0.02 min

Lab File: BN007885.D

Acq: 27 Sep 2019 13:30

Instrument :

BNA_N

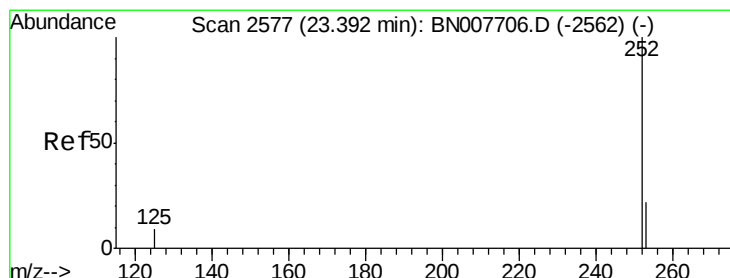
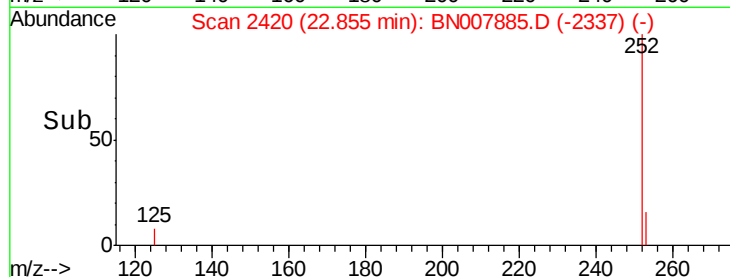
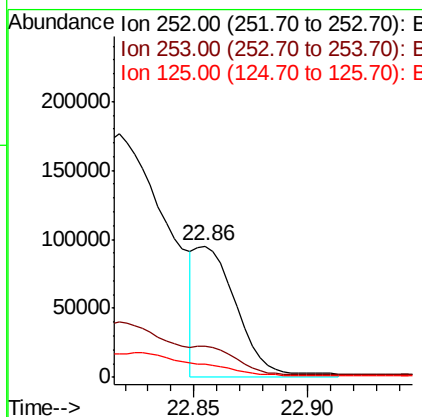
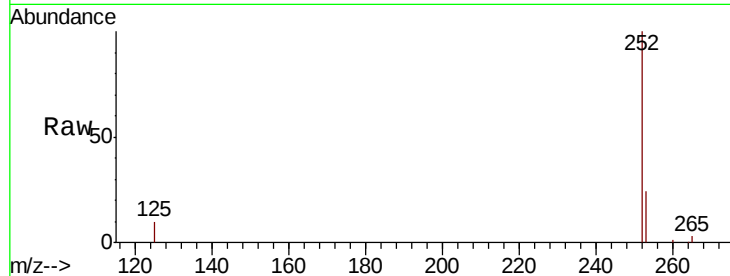
ClientSampleId :

EXT-SW092-091819-1DL

Tot Ion:	252	Resp:	121873
Ion Ratio	Lower	Upper	
252	100		
253	23.8	18.5	27.7
125	10.0	8.4	12.6

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#37

Benzo(a)pyrene

Concen: 2.039 ng/mL

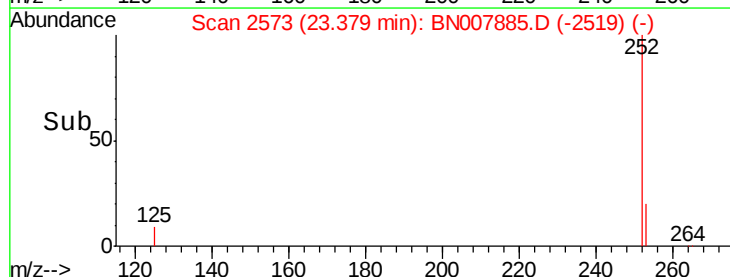
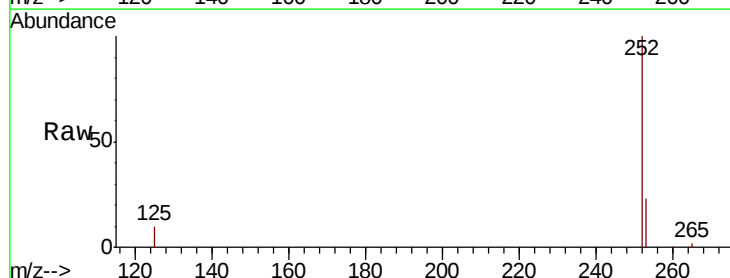
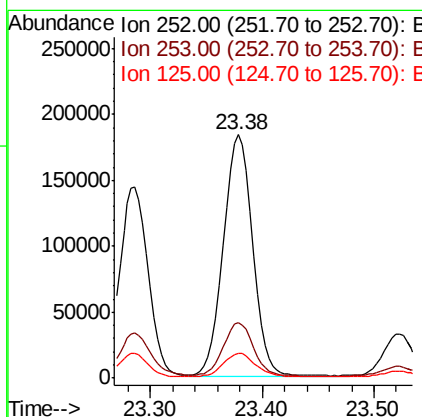
RT: 23.38 min Scan# 2573

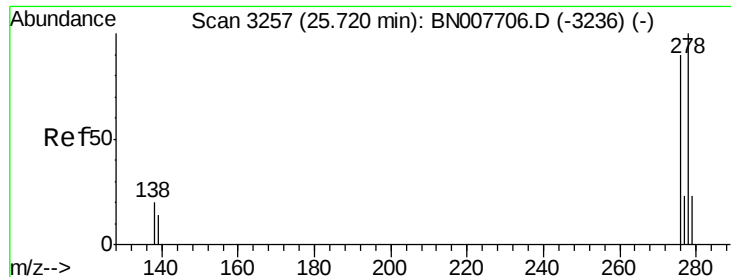
Delta R.T. -0.01 min

Lab File: BN007885.D

Acq: 27 Sep 2019 13:30

Tgt Ion:	252	Resp:	330881
Ion Ratio	Lower	Upper	
252	100		
253	22.8	18.6	27.8
125	10.1	9.4	14.0





#38

Dibenzo(a,h)anthracene

Concen: 0.360 ng

RT: 25.69 min Scan# 3248

Delta R.T. -0.03 min

Lab File: BN007885.D

Acq: 27 Sep 2019 13:30

Instrument :

BNA_N

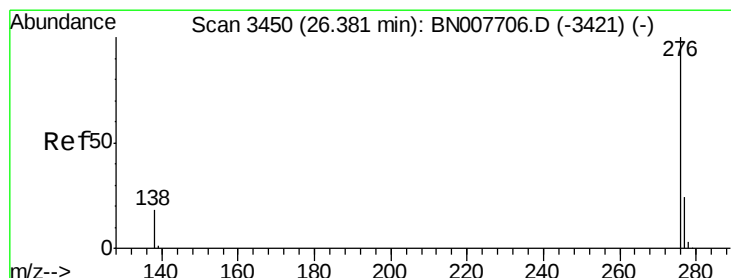
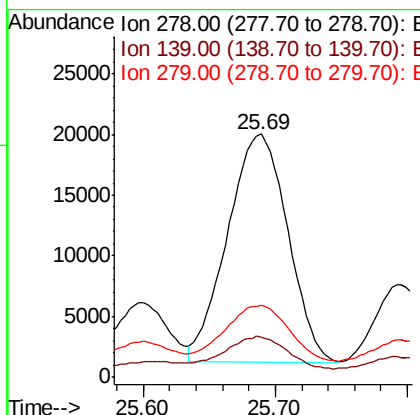
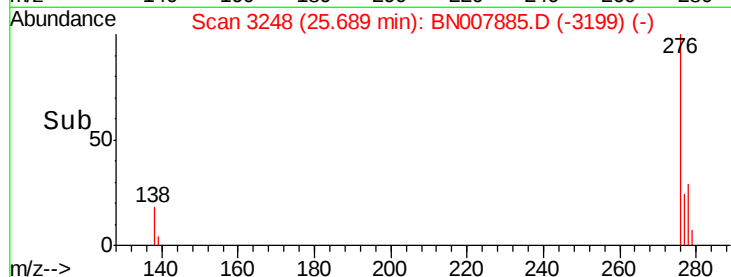
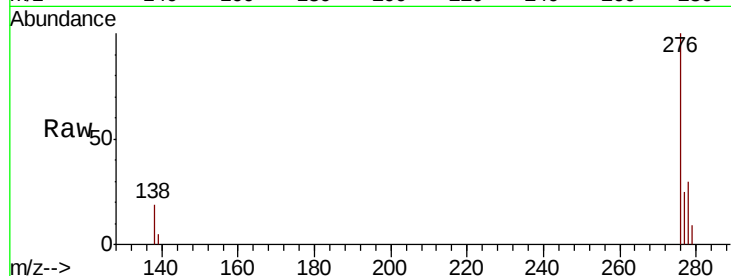
ClientSampleId :

EXT-SW092-091819-1DL

Tot Ion:	278	Resp:	59865
Ion Ratio	Lower	Upper	
278	100		
139	16.7	11.8	17.6
279	29.6	19.4	29.2#

Manual Integrations
APPROVED

mohammad
9/30/2019 8:15:53 AM



#39

Benzo(g,h,i)perylene

Concen: 1.394 ng

RT: 26.35 min Scan# 3442

Delta R.T. -0.03 min

Lab File: BN007885.D

Acq: 27 Sep 2019 13:30

Tgt Ion:	276	Resp:	229159
Ion Ratio	Lower	Upper	
276	100		
277	24.4	19.8	29.8
138	19.1	15.1	22.7

