

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN120519\
 Data File : BN008849.D
 Acq On : 05 Dec 2019 15:20
 Operator : JU
 Sample : K5609-13DL 5X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PT-PAH-SOILDL

Manual Integrations
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 12/6/2019 3:02:15 PM

Quant Time: Dec 06 10:19:51 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN120419.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Dec 04 15:42:09 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.56	152	3713	0.40	ng	0.00
7) Naphthalene-d8	10.32	136	15960	0.40	ng	-0.01
13) Acenaphthene-d10	14.19	164	11190	0.40	ng	0.00
19) Phenanthrene-d10	16.93	188	25872	0.40	ng	-0.01
27) Chrysene-d12	21.14	240	27220	0.40	ng	-0.01
34) Perylene-d12	23.30	264	29997	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.20	112	817	0.08	ng	0.00
5) Phenol-d6	6.75	99	1222	0.09	ng	0.00
8) Nitrobenzene-d5	8.69	82	881	0.06	ng	-0.01
11) 2-Methylnaphthalene-d10	11.92	152	1620	0.06	ng	0.00
14) 2,4,6-Tribromophenol	15.68	330	449	0.07	ng	-0.01
15) 2-Fluorobiphenyl	12.81	172	2890	0.07	ng	0.00
25) Fluoranthene-d10	18.97	212	5004	0.06	ng	0.00
29) Terphenyl-d14	19.59	244	4518	0.07	ng	0.00

Target Compounds

						Qvalue
9) Naphthalene	10.37	128	127030	2.985	ng	99
12) 2-Methylnaphthalene	11.99	142	11679	0.372	ng	100
16) Acenaphthylene	13.90	152	114641	2.196	ng	100
17) Acenaphthene	14.25	154	54857	1.657	ng	99
18) Fluorene	15.25	166	53457	1.217	ng	99
23) Phenanthrene	16.97	178	279818	3.543	ng	100
24) Anthracene	17.07	178	231579	3.194	ng	100
26) Fluoranthene	19.01	202	177946	1.871	ng	99
28) Pyrene	19.37	202	103668	1.092	ng	100
30) Benzo(a)anthracene	21.13	228	28501	0.290	ng	100
31) Chrysene	21.19	228	38808	0.406	ng	100
32) Bis(2-ethylhexyl)phthalate	21.09	149	3529	0.054	ng	98
33) Indeno(1,2,3-cd)pyrene	25.42	276	203900	1.729	ng	99
35) Benzo(b)fluoranthene	22.66	252	88509m	0.888	ng	
36) Benzo(k)fluoranthene	22.71	252	142457	1.455	ng	# 93
37) Benzo(a)pyrene	23.21	252	82422	0.877	ng	# 93
38) Dibenzo(a,h)anthracene	25.43	278	188835	1.968	ng	95
39) Benzo(a,h,i)perylene	26.06	276	55875	0.575	ng	99

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

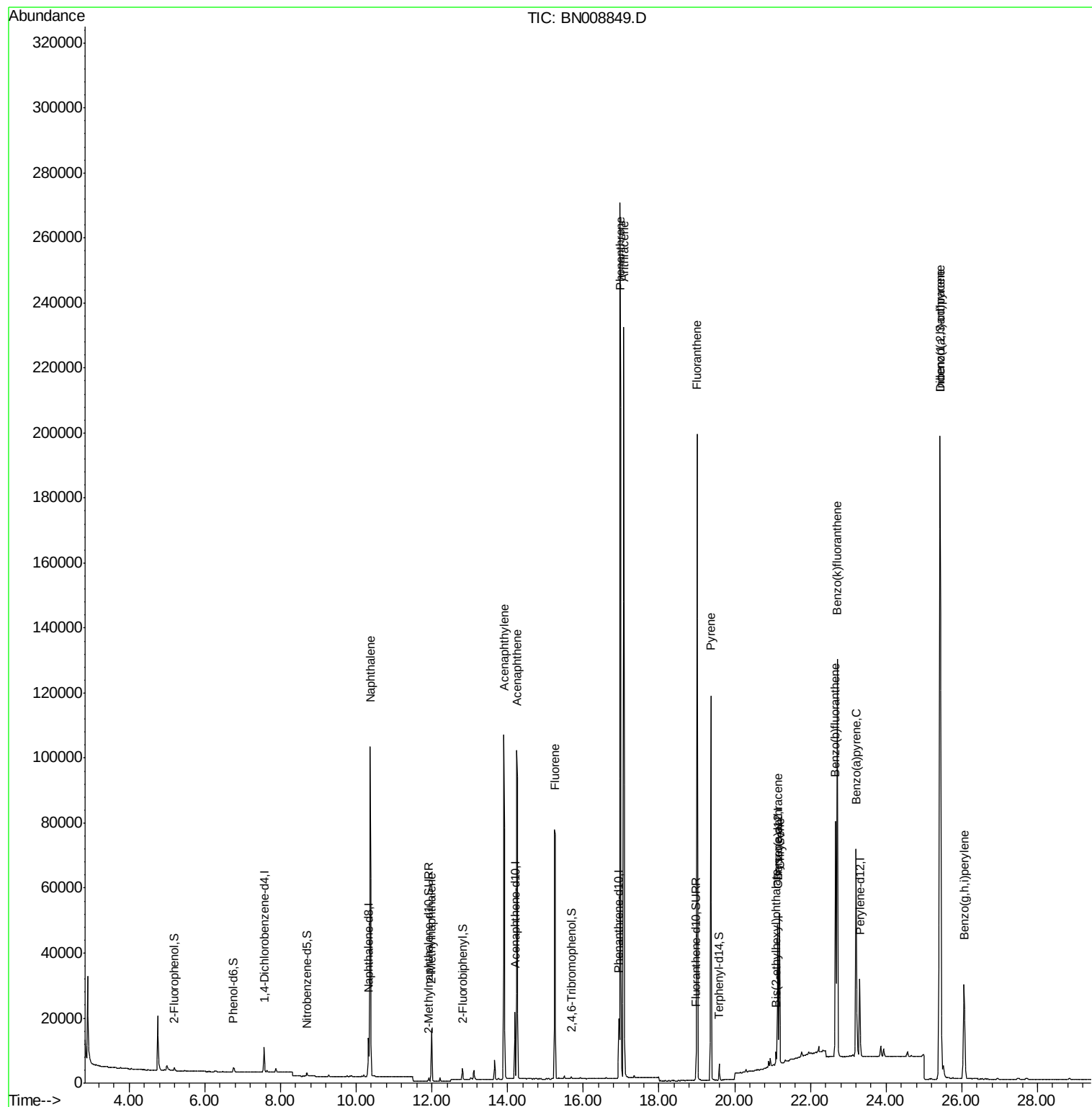
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN120519\
Data File : BN008849.D
Acq On : 05 Dec 2019 15:20
Operator : JU
Sample : K5609-13DL 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

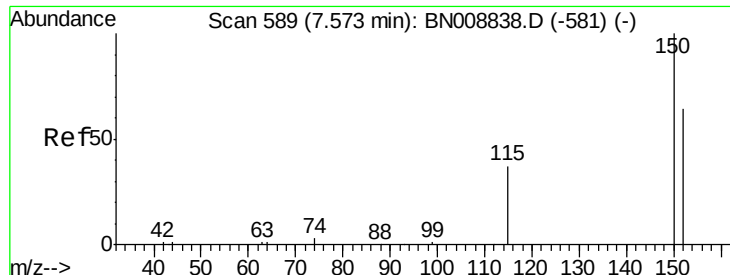
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

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Quant Time: Dec 06 10:19:51 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN120419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 04 15:42:09 2019
Response via : Initial Calibration





#1

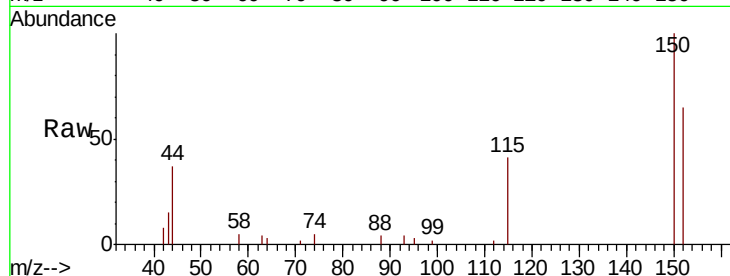
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.56 min Scan# 588
Delta R.T. -0.01 min
Lab File: BN008849.D
Acq: 05 Dec 2019 15:20

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.6	123.9	185.9
115	62.7	49.9	74.9

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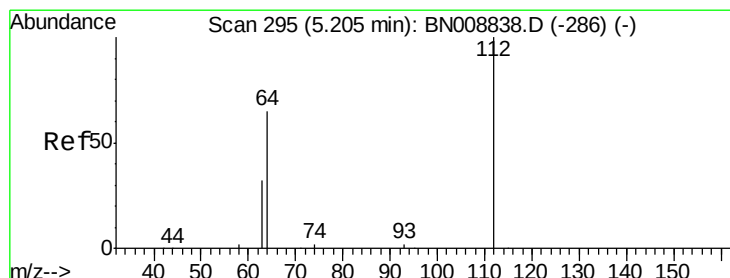
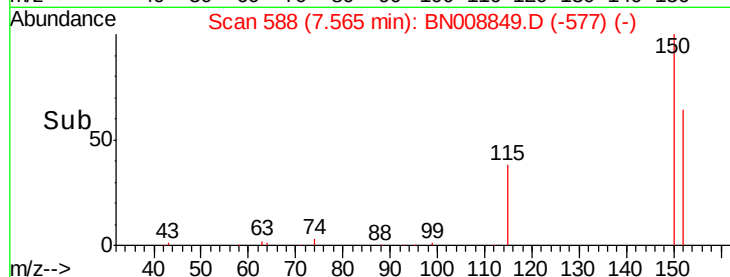
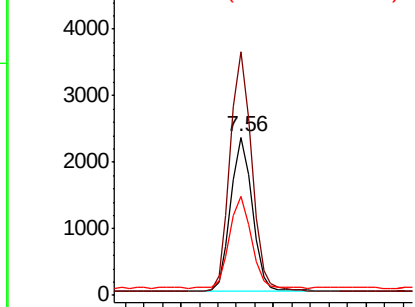


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

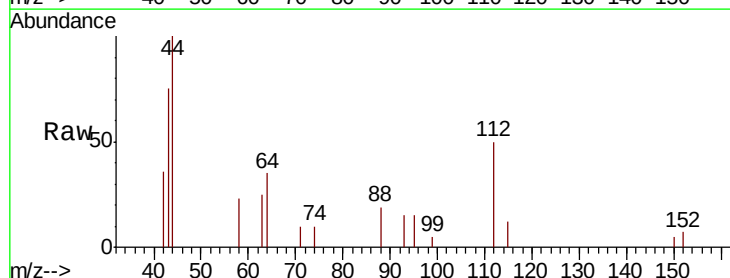
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.081 ng
RT: 5.20 min Scan# 294
Delta R.T. -0.01 min
Lab File: BN008849.D
Acq: 05 Dec 2019 15:20

Tgt Ion	Ratio	Lower	Upper
112	100		
64	71.4	56.3	84.5
63	34.8	28.2	42.2

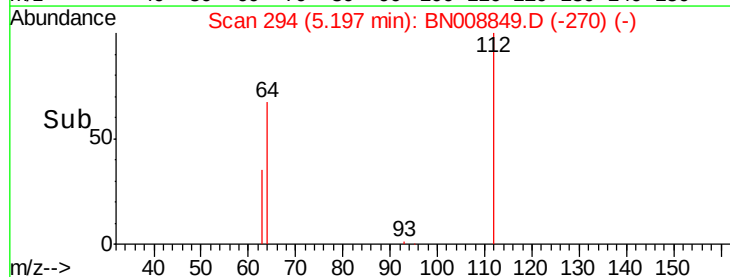
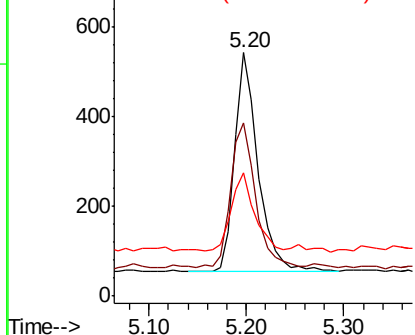


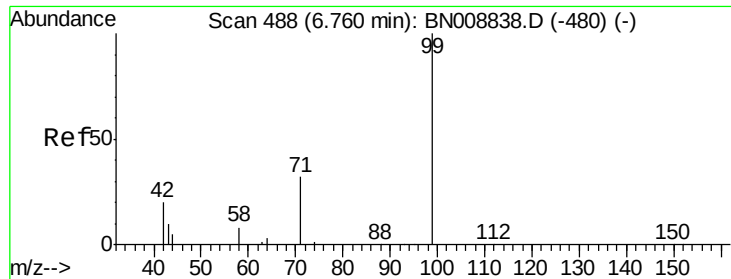
Abundance

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: 0.089 ng

RT: 6.75 min Scan# 487

Delta R.T. -0.01 min

Lab File: BN008849.D

Acq: 05 Dec 2019 15:20

Instrument :

BNA_N

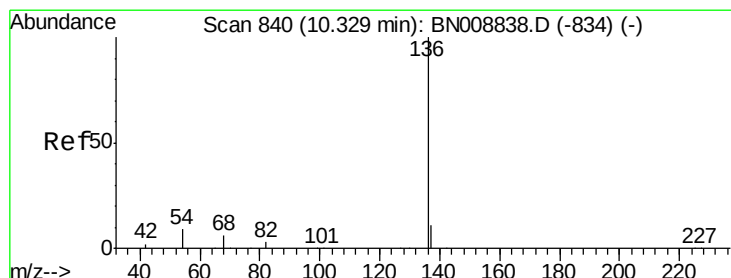
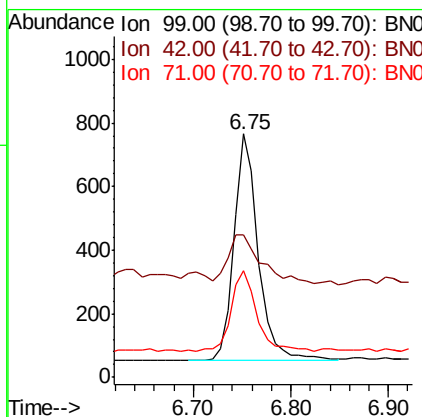
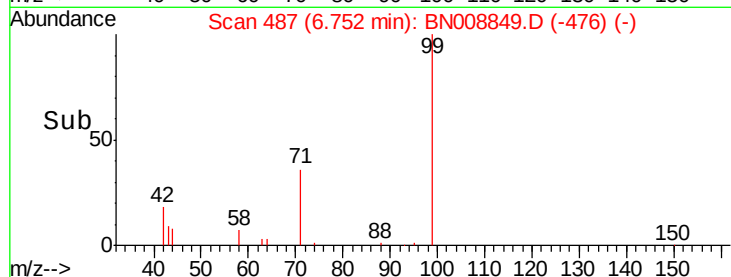
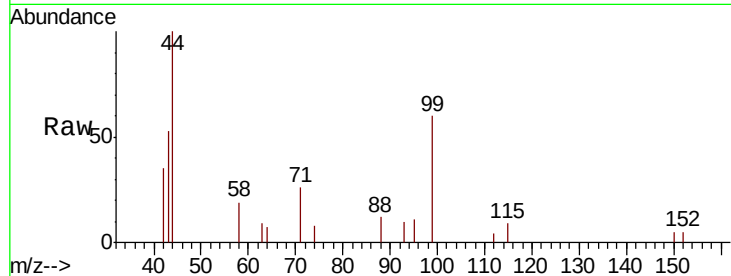
ClientSampleId :

PT-PAH-SOILD

Tot Ion:	99	Resp:	1222
Ion	Ratio	Lower	Upper
99	100		
42	31.9	18.1	27.1#
71	37.0	26.6	40.0

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#7

Naphthalene-d8

Concen: 0.400 ng

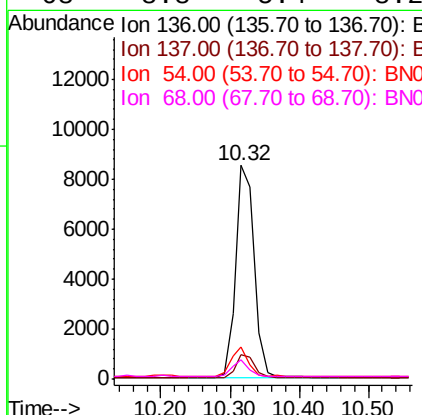
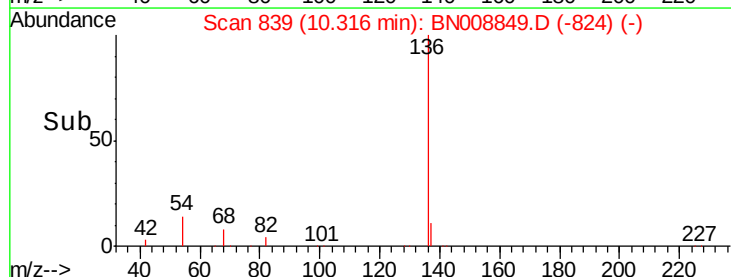
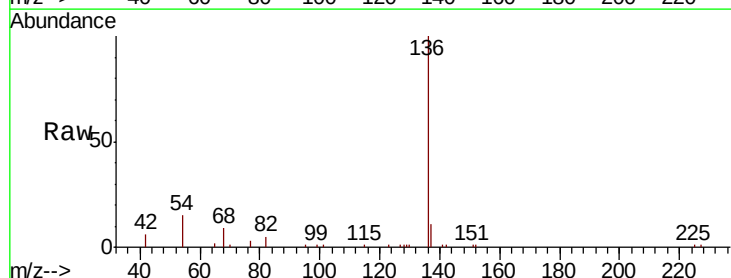
RT: 10.32 min Scan# 839

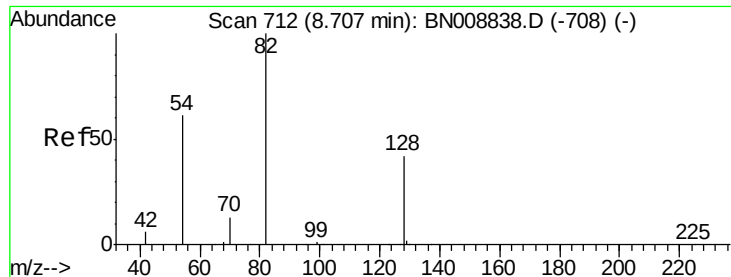
Delta R.T. -0.01 min

Lab File: BN008849.D

Acq: 05 Dec 2019 15:20

Tgt Ion:	136	Resp:	15960
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	15.0	8.2	12.2#
68	8.8	5.4	8.2#





#8

Nitrobenzene-d5

Concen: 0.063 ng

RT: 8.69 min Scan# 711

Delta R.T. -0.01 min

Lab File: BN008849.D

Acq: 05 Dec 2019 15:20

Instrument :

BNA_N

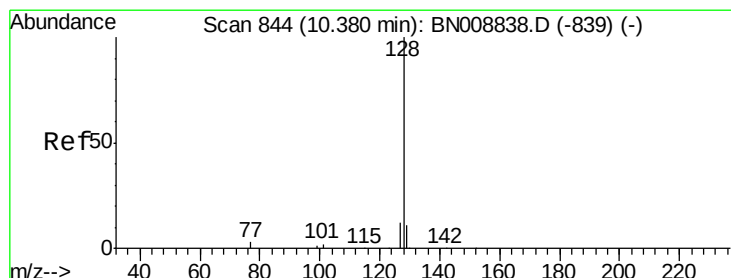
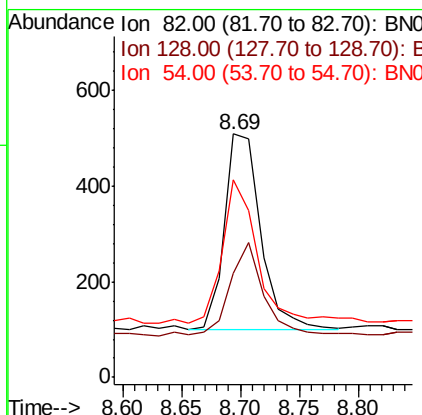
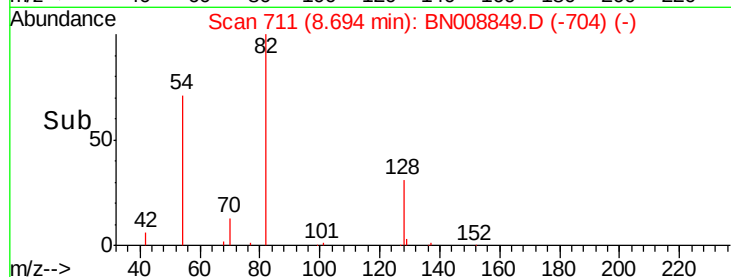
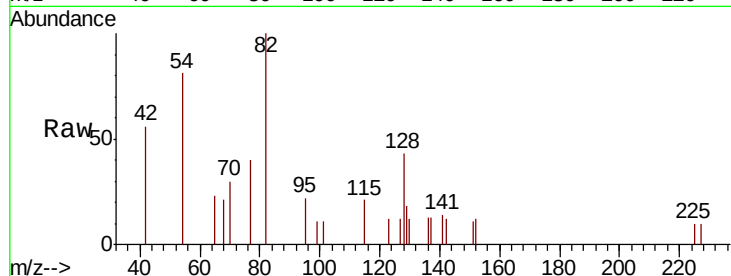
ClientSampleId :

PT-PAH-SOILD

Tot Ion:	82	Resp:	881
Ion Ratio	Lower	Upper	
82	100		
128	42.6	35.0	52.6
54	81.3	50.2	75.2

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#9

Naphthalene

Concen: 2.985 ng

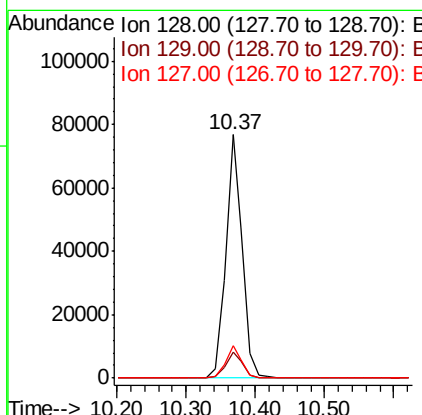
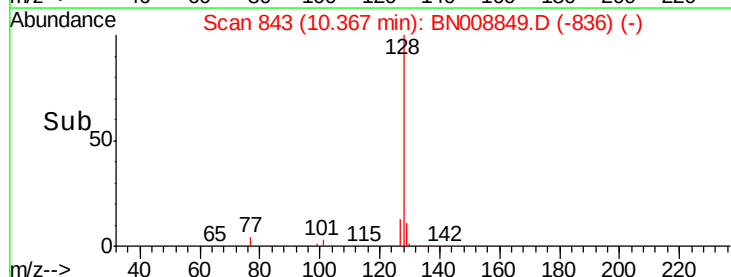
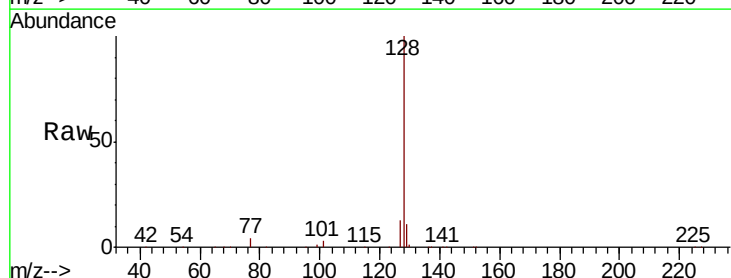
RT: 10.37 min Scan# 843

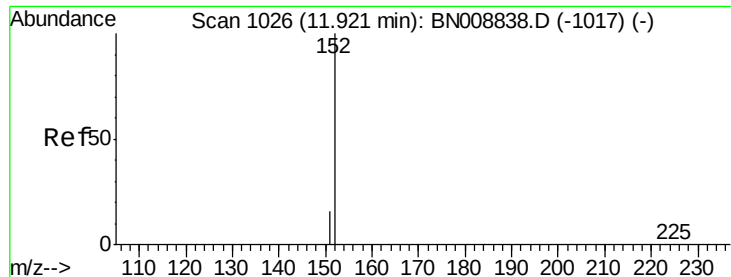
Delta R.T. -0.01 min

Lab File: BN008849.D

Acq: 05 Dec 2019 15:20

Tgt Ion:	128	Resp:	127030
Ion Ratio	Lower	Upper	
128	100		
129	10.9	9.3	13.9
127	13.1	10.5	15.7





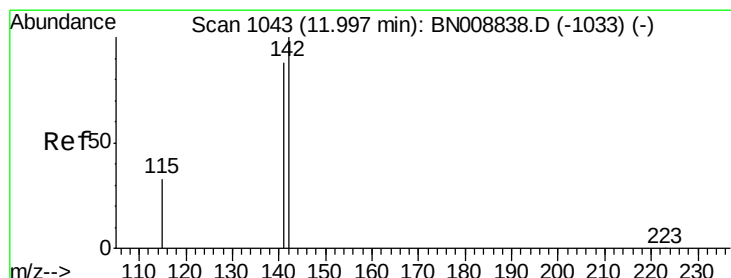
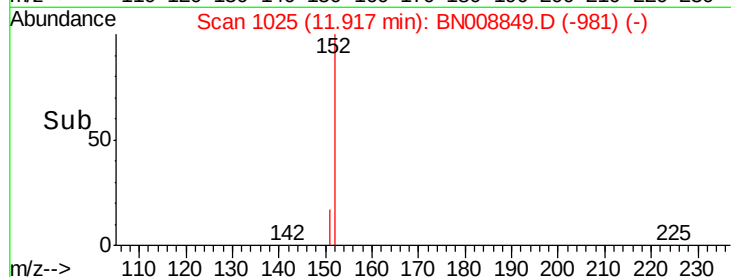
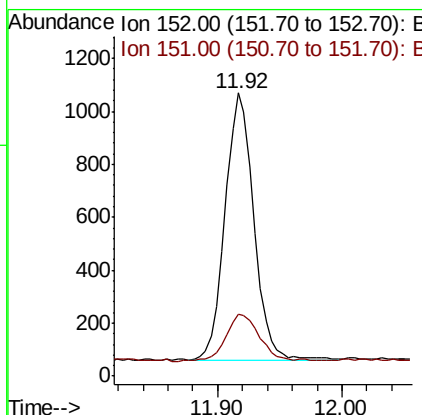
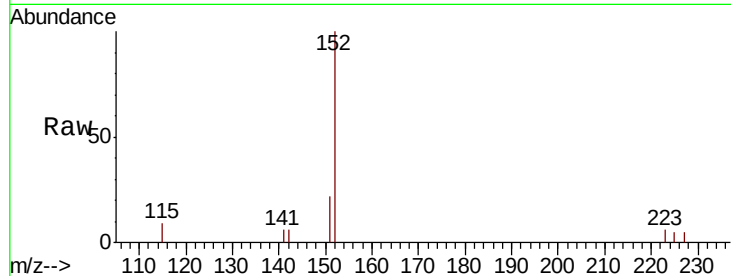
#11
2-Methylnaphthalene-d10
Concen: 0.061 ng
RT: 11.92 min Scan# 1025
Delta R.T. -0.00 min
Lab File: BN008849.D
Acq: 05 Dec 2019 15:20

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.6	15.2	22.8

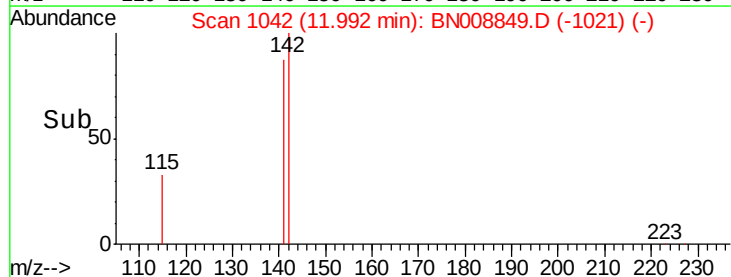
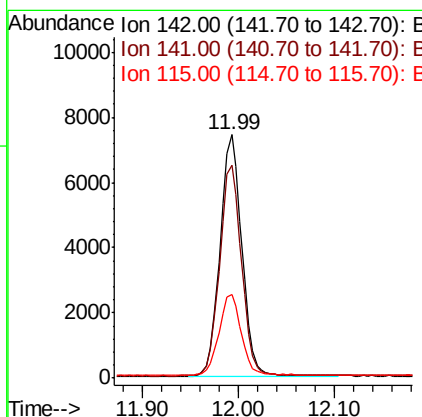
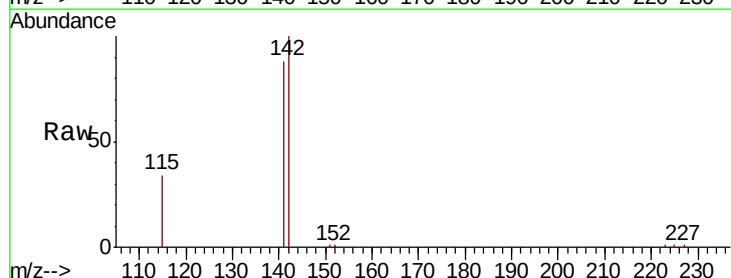
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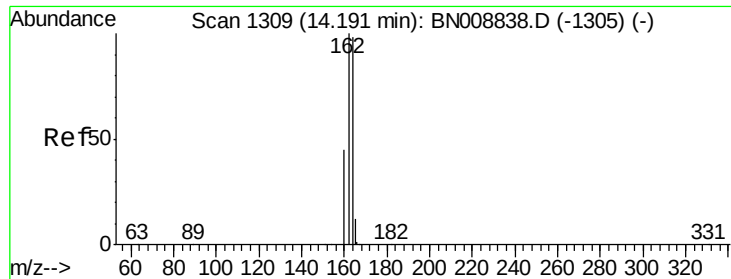
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#12
2-Methylnaphthalene
Concen: 0.372 ng
RT: 11.99 min Scan# 1042
Delta R.T. -0.00 min
Lab File: BN008849.D
Acq: 05 Dec 2019 15:20

Tgt Ion	Ratio	Lower	Upper
142	100		
141	87.6	70.2	105.4
115	34.3	27.6	41.4





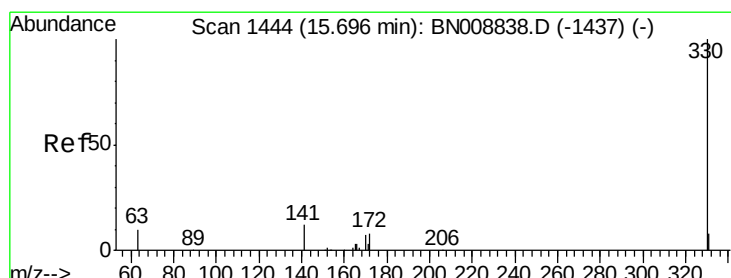
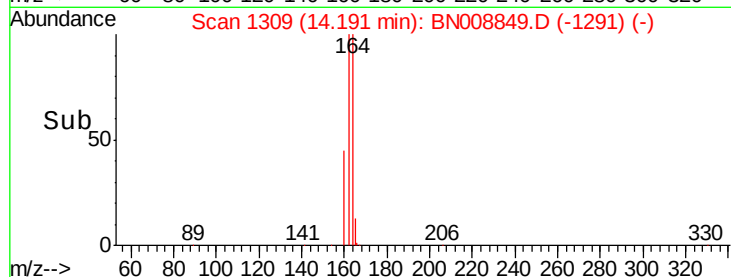
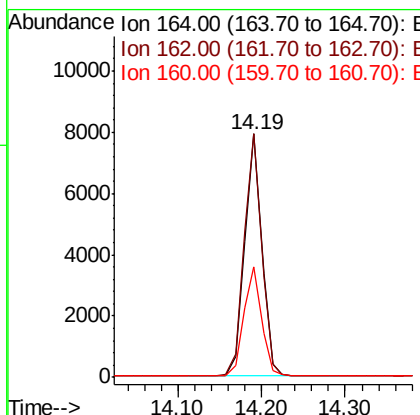
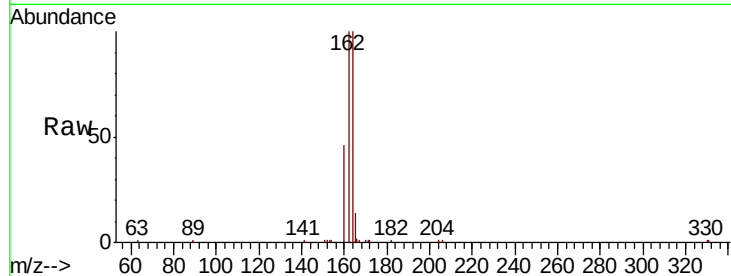
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.19 min Scan# 1309
Delta R.T. -0.00 min
Lab File: BN008849.D
Acq: 05 Dec 2019 15:20

Instrument :
BNA_N
ClientSampled :
PT-PAH-SOILD

Tot Ion	Ratio	Lower	Upper
164	100		
162	100.1	81.9	122.9
160	45.6	37.4	56.2

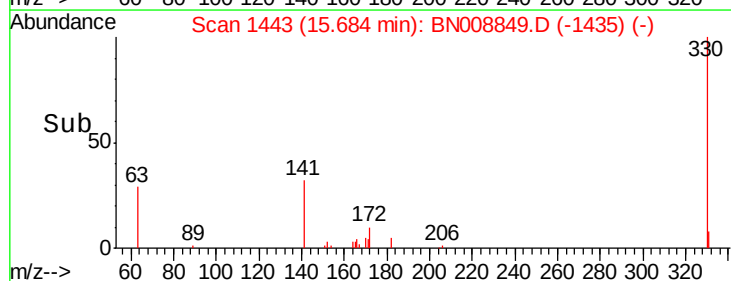
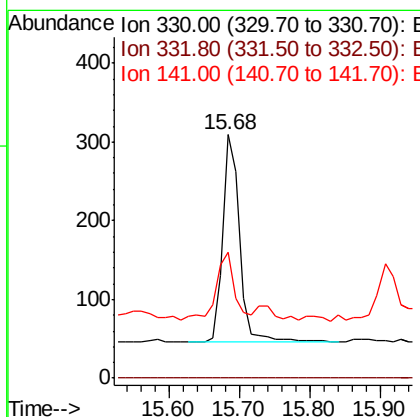
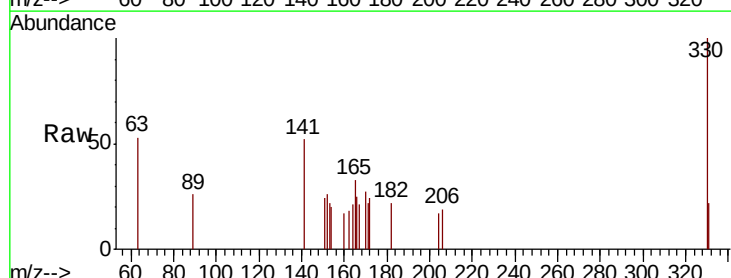
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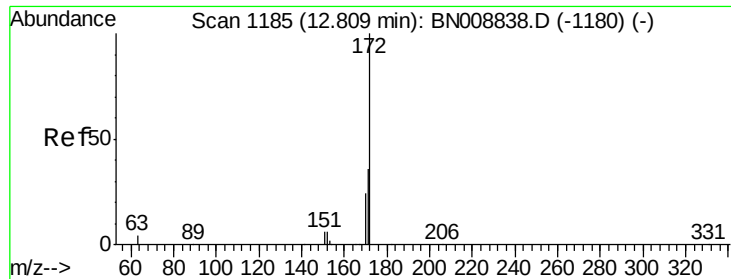
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#14
2,4,6-Tribromophenol
Concen: 0.074 ng
RT: 15.68 min Scan# 1443
Delta R.T. -0.01 min
Lab File: BN008849.D
Acq: 05 Dec 2019 15:20

Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.7	26.2	39.4





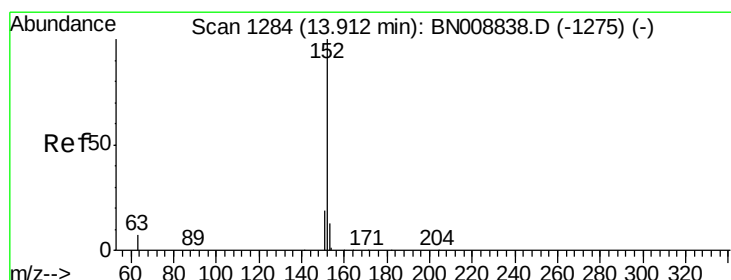
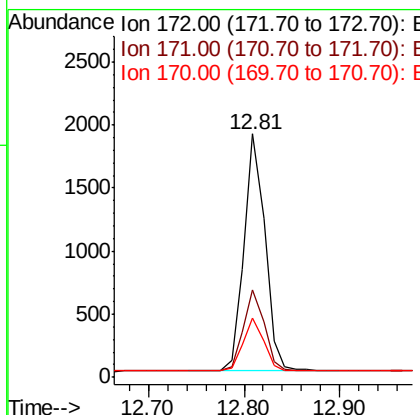
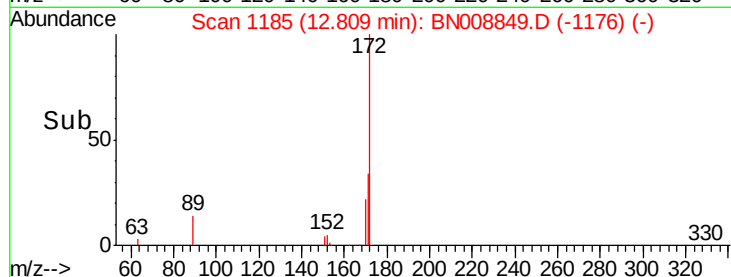
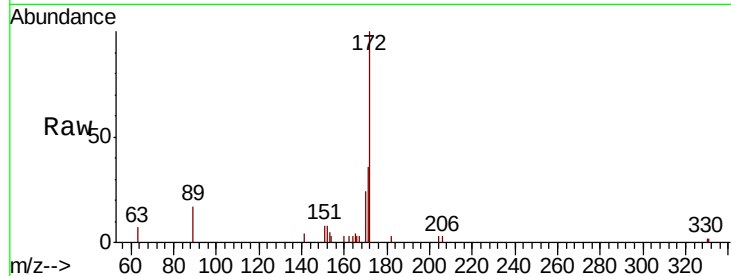
#15
2-Fluorobiphenyl
Concen: 0.069 ng
RT: 12.81 min Scan# 1185
Delta R.T. -0.00 min
Lab File: BN008849.D
Acq: 05 Dec 2019 15:20

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILDL

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.9	43.3
170	24.1	19.7	29.5

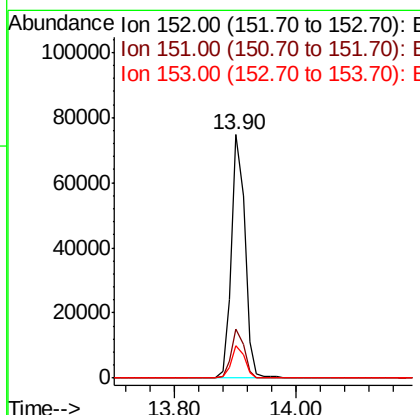
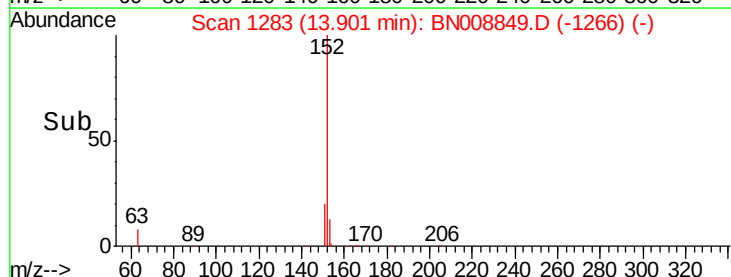
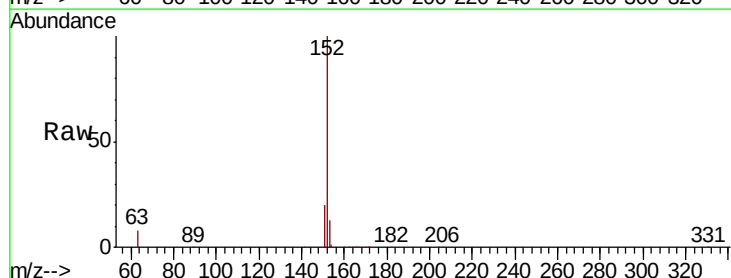
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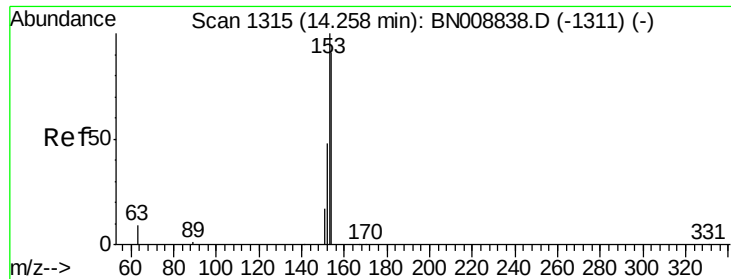
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#16
Acenaphthylene
Concen: 2.196 ng
RT: 13.90 min Scan# 1283
Delta R.T. -0.01 min
Lab File: BN008849.D
Acq: 05 Dec 2019 15:20

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.4	23.2
153	13.1	10.4	15.6





#17

Acenaphthene

Concen: 1.657 ng

RT: 14.25 min Scan# 1314

Delta R.T. -0.01 min

Lab File: BN008849.D

Acq: 05 Dec 2019 15:20

Instrument :

BNA_N

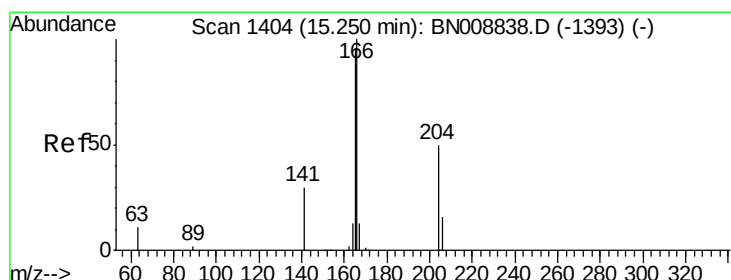
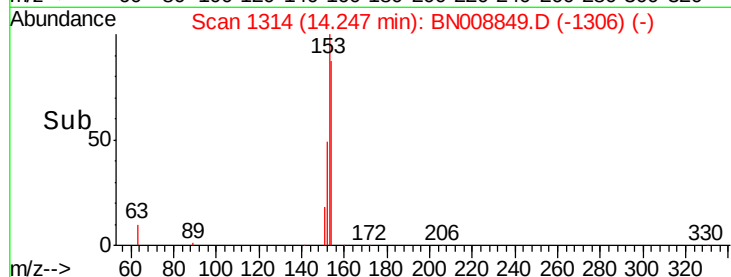
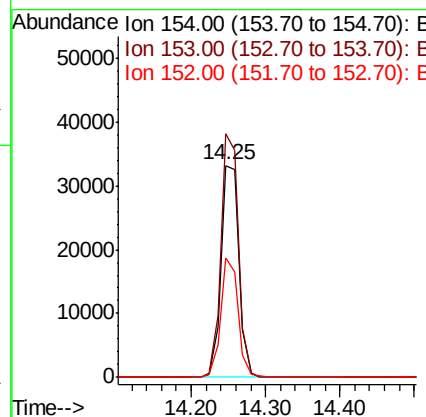
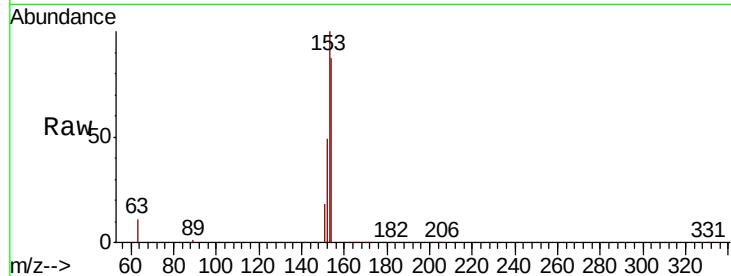
ClientSampled :

PT-PAH-SOILD

Tot Ion:	154	Resp:	54857
Ion	Ratio	Lower	Upper
154	100		
153	112.2	89.4	134.2
152	54.0	43.8	65.8

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#18

Fluorene

Concen: 1.217 ng

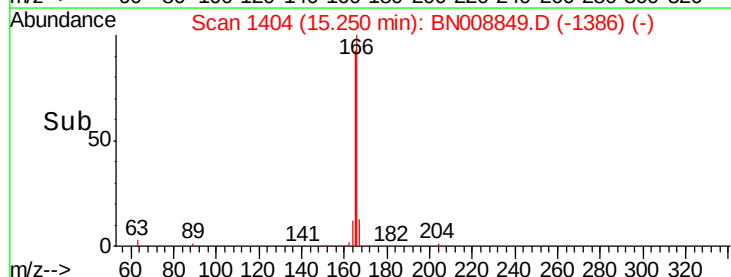
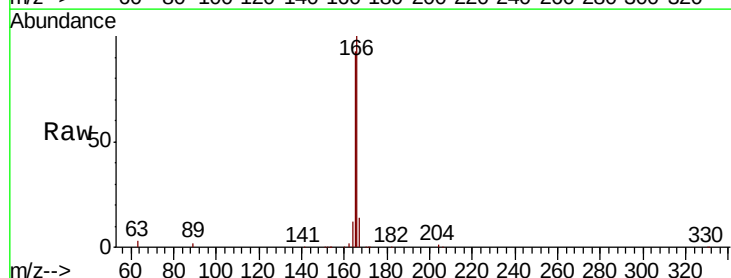
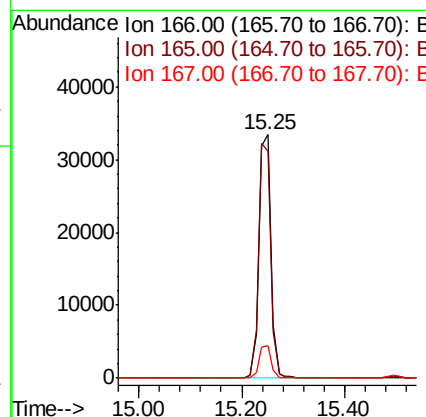
RT: 15.25 min Scan# 1404

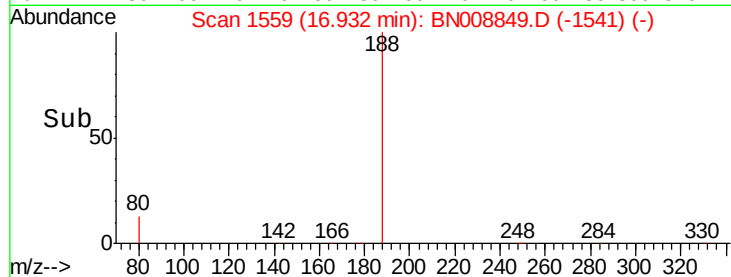
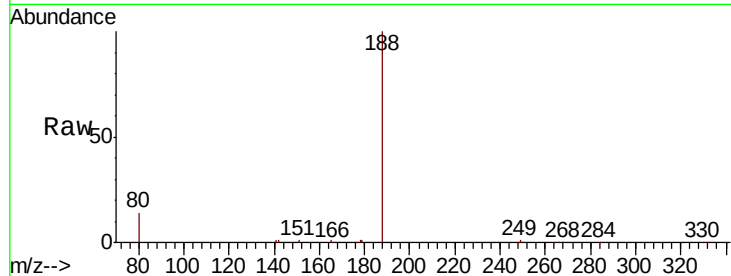
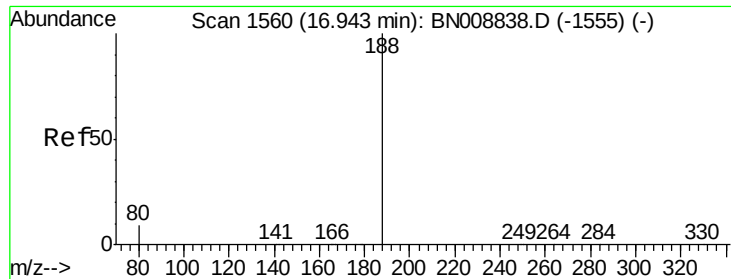
Delta R.T. -0.00 min

Lab File: BN008849.D

Acq: 05 Dec 2019 15:20

Tgt Ion:	166	Resp:	53457
Ion	Ratio	Lower	Upper
166	100		
165	97.0	77.0	115.6
167	13.2	10.8	16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.93 min Scan# 1559

Delta R.T. -0.01 min

Lab File: BN008849.D

Acq: 05 Dec 2019 15:20

Instrument :

BNA_N

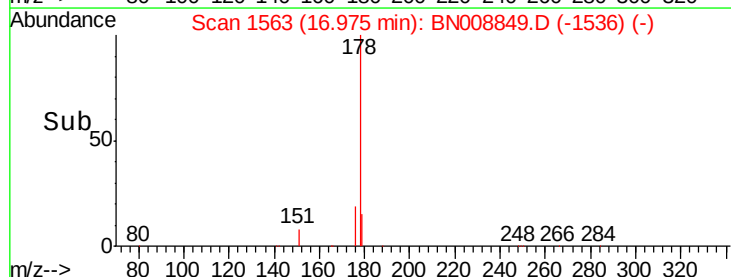
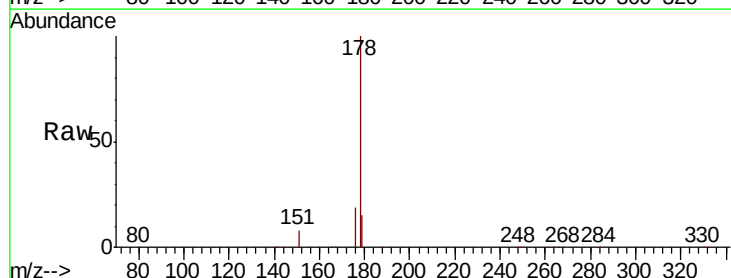
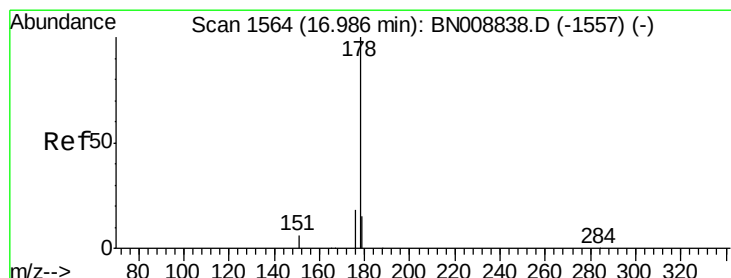
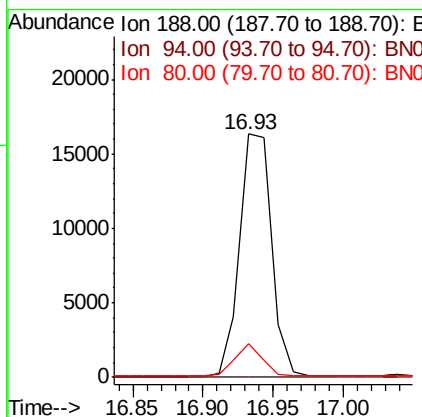
ClientSampleId :

PT-PAH-SOILDL

Tot Ion:	188	Resp:	25872
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	14.0	7.4	11.2#

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#23

Phenanthrene

Concen: 3.543 ng

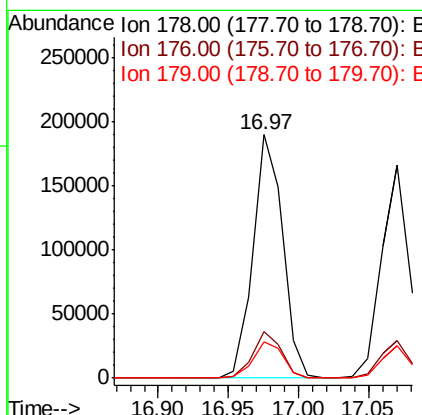
RT: 16.97 min Scan# 1563

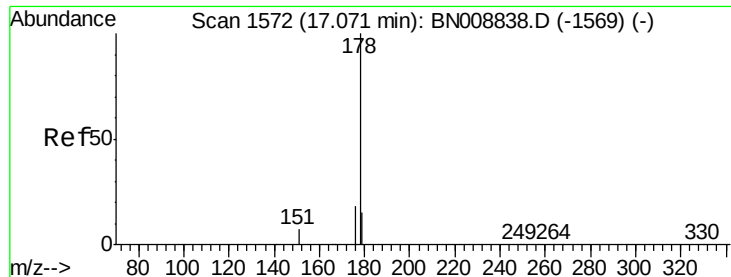
Delta R.T. -0.01 min

Lab File: BN008849.D

Acq: 05 Dec 2019 15:20

Tgt Ion:	178	Resp:	279818
Ion Ratio	Lower	Upper	
178	100		
176	18.4	14.8	22.2
179	15.3	12.2	18.2





#24

Anthracene

Concen: 3.194 ng

RT: 17.07 min Scan# 1572

Delta R.T. -0.00 min

Lab File: BN008849.D

Acq: 05 Dec 2019 15:20

Instrument :

BNA_N

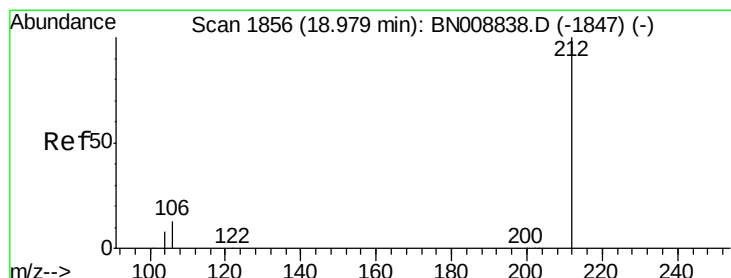
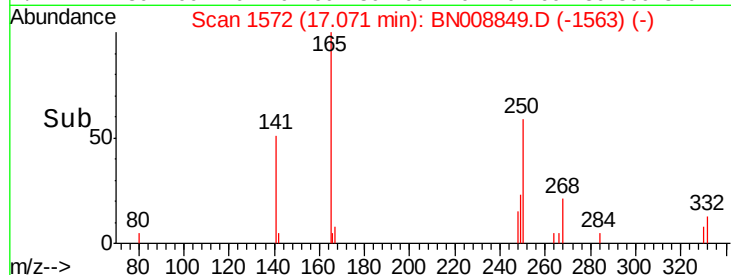
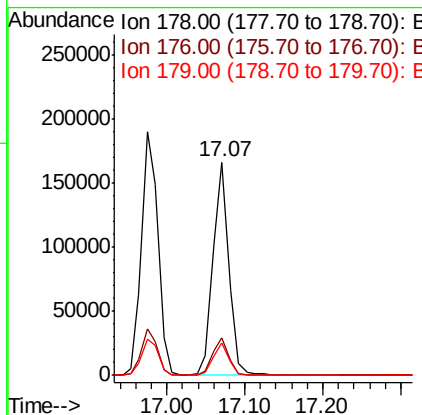
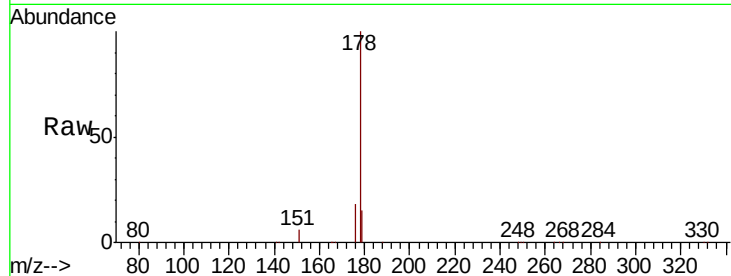
ClientSampleID :

PT-PAH-SOILDL

Tot Ion:	178	Resp:	231579
Ion Ratio	Lower	Upper	
178	100		
176	17.9	14.3	21.5
179	15.3	12.2	18.2

Manual Integrations
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#25

Fluoranthene-d10

Concen: 0.064 ng

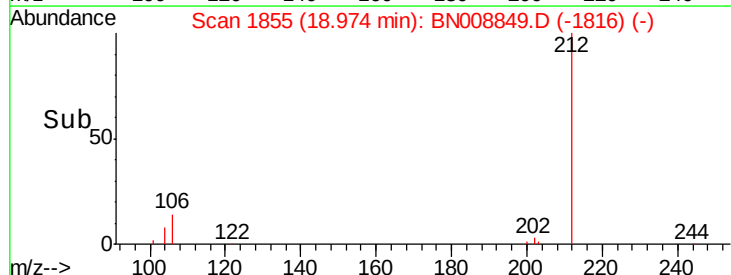
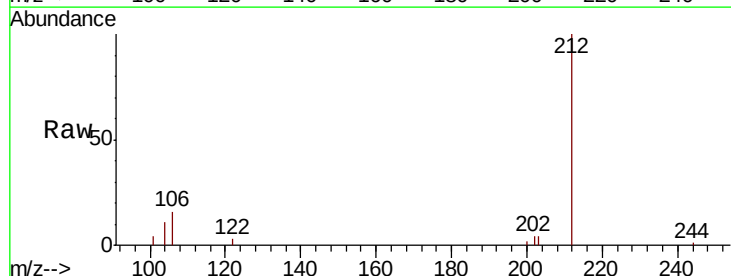
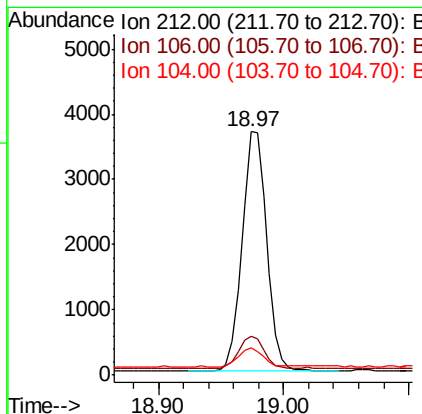
RT: 18.97 min Scan# 1855

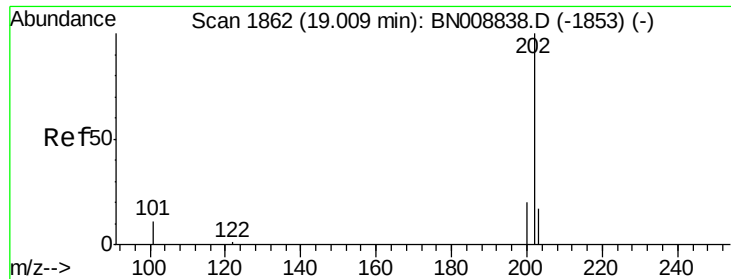
Delta R.T. -0.01 min

Lab File: BN008849.D

Acq: 05 Dec 2019 15:20

Tgt Ion:	212	Resp:	5004
Ion Ratio	Lower	Upper	
212	100		
106	14.1	10.7	16.1
104	7.6	6.1	9.1





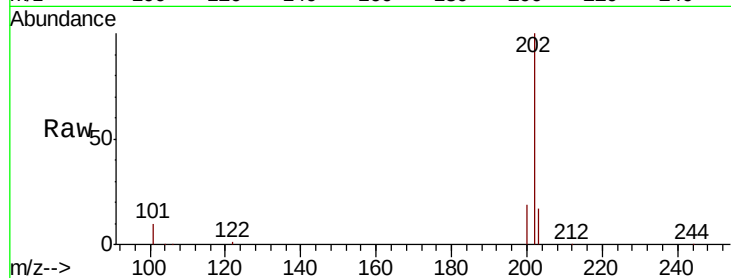
#26
Fluoranthene
Concen: 1.871 ng
RT: 19.01 min Scan# 1862
Delta R.T. -0.00 min
Lab File: BN008849.D
Acq: 05 Dec 2019 15:20

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

Tot Ion	Ratio	Lower	Upper
202	100		
101	11.3	9.3	13.9
203	17.2	13.7	20.5

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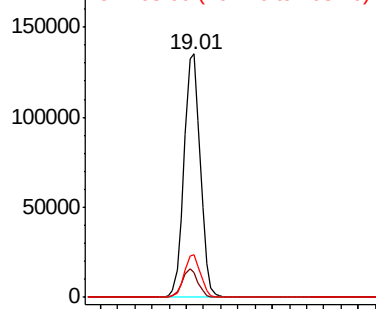


Abundance

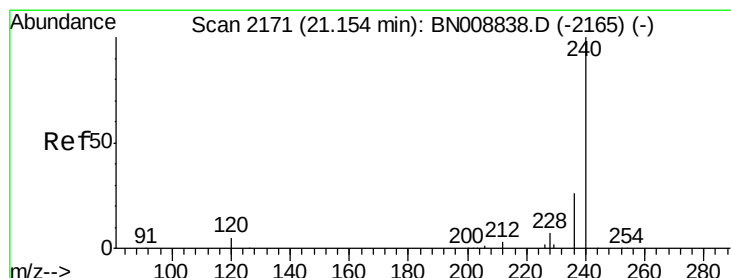
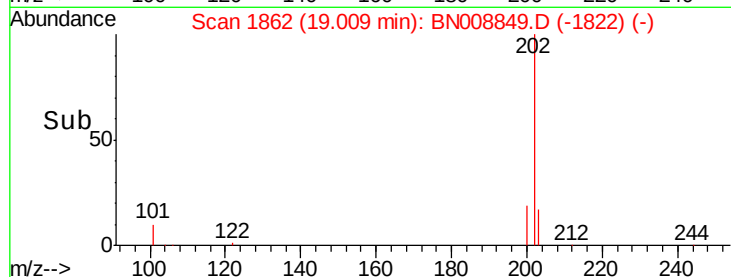
Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->



#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.14 min Scan# 2170
Delta R.T. -0.01 min
Lab File: BN008849.D
Acq: 05 Dec 2019 15:20

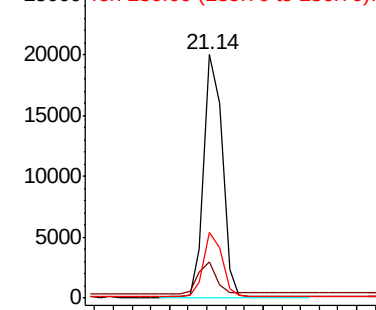
Tgt Ion	Ratio	Lower	Upper
240	100		
120	14.9	6.0	9.0#
236	26.9	21.4	32.0

Abundance

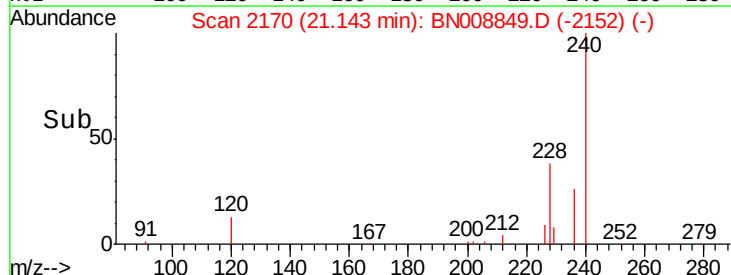
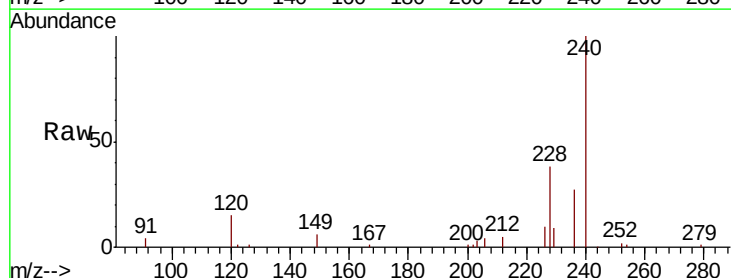
Ion 240.00 (239.70 to 240.70): E

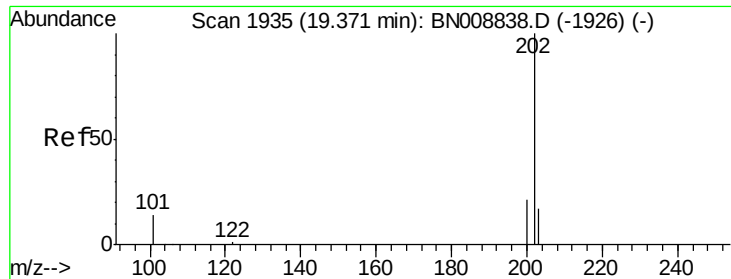
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time-->





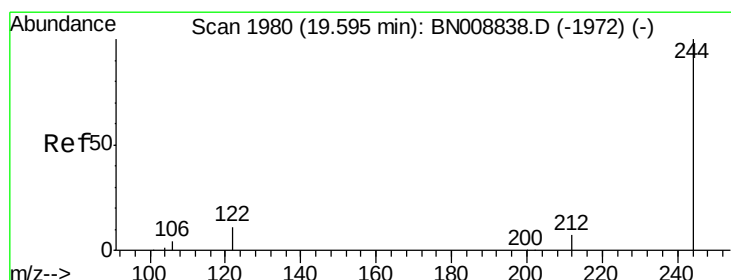
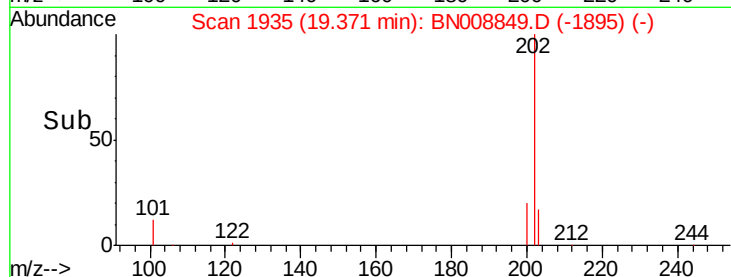
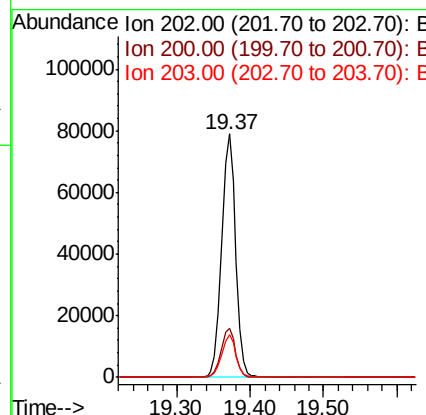
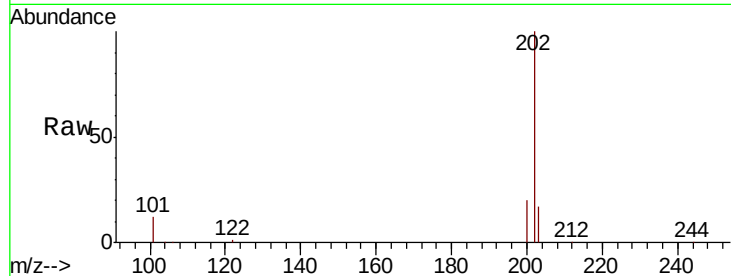
#28
Pvrene
Concen: 1.092 ng
RT: 19.37 min Scan# 1935
Delta R.T. -0.00 min
Lab File: BN008849.D
Acq: 05 Dec 2019 15:20

Instrument :
BNA_N
ClientSampled :
PT-PAH-SOILDL

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.3	16.2	24.2
203	17.6	14.2	21.2

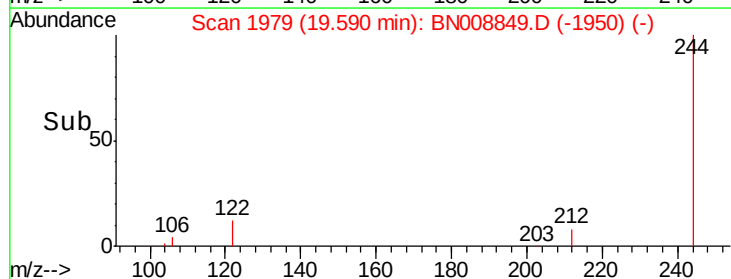
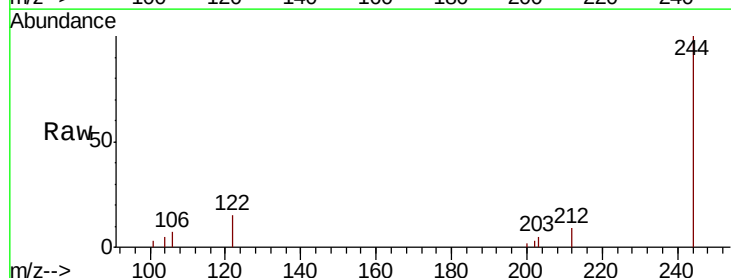
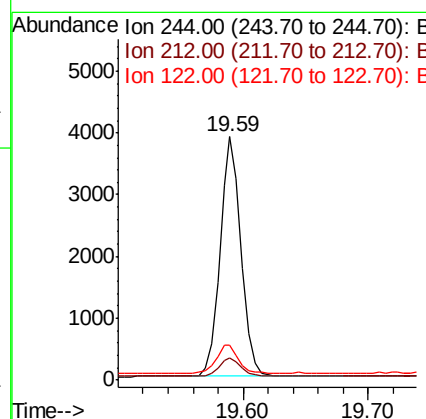
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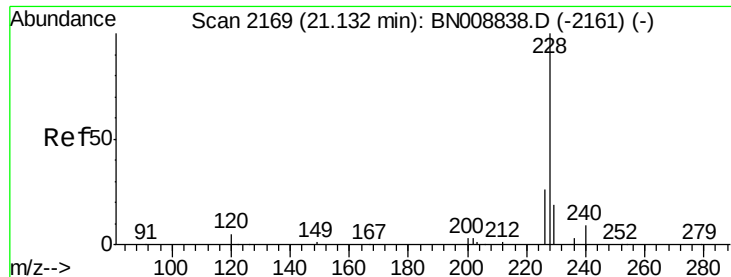
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#29
Terphenyl-d14
Concen: 0.072 ng
RT: 19.59 min Scan# 1979
Delta R.T. -0.01 min
Lab File: BN008849.D
Acq: 05 Dec 2019 15:20

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.4	6.1	9.1#
122	14.6	8.9	13.3#





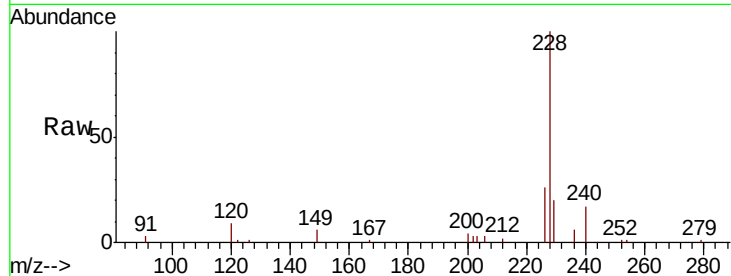
#30
Benzo(a)anthracene
Concen: 0.290 ng
RT: 21.13 min Scan# 2169
Delta R.T. -0.00 min
Lab File: BN008849.D
Acq: 05 Dec 2019 15:20

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

Tot Ion	Ratio	Lower	Upper
228	100		
226	26.0	20.8	31.2
229	19.9	15.9	23.9

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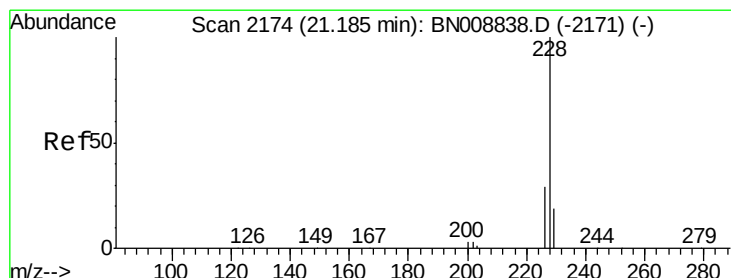
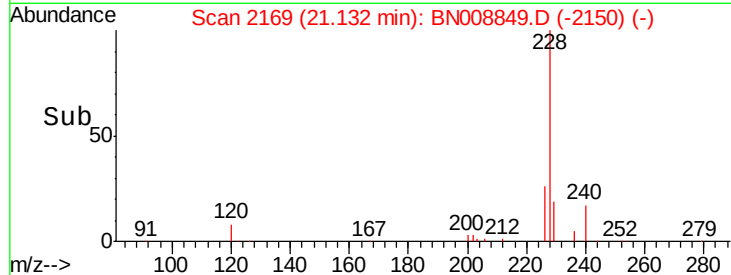
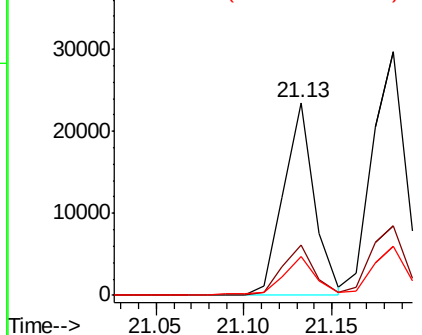


Abundance

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: 0.406 ng
RT: 21.19 min Scan# 2174
Delta R.T. -0.00 min
Lab File: BN008849.D
Acq: 05 Dec 2019 15:20

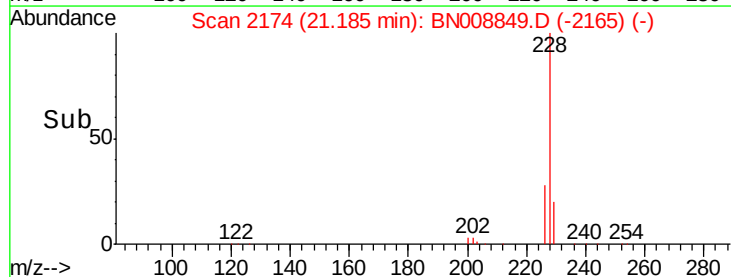
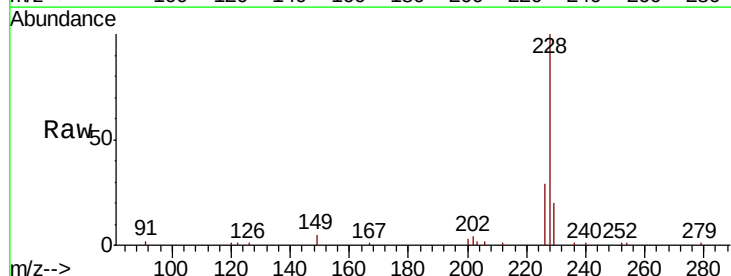
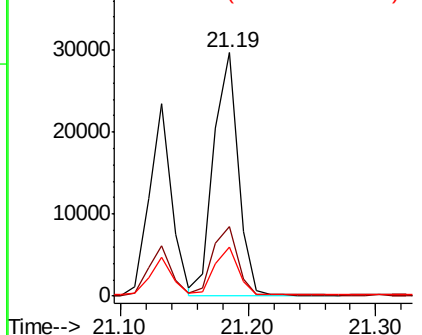
Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.7	23.1	34.7
229	20.0	15.8	23.8

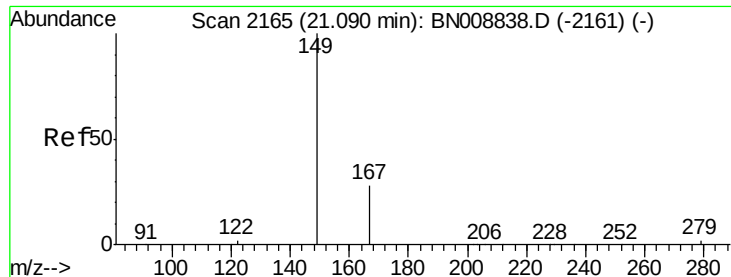
Abundance

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: 0.054 ng

RT: 21.09 min Scan# 2165

Delta R.T. -0.00 min

Lab File: BN008849.D

Acq: 05 Dec 2019 15:20

Instrument :

BNA_N

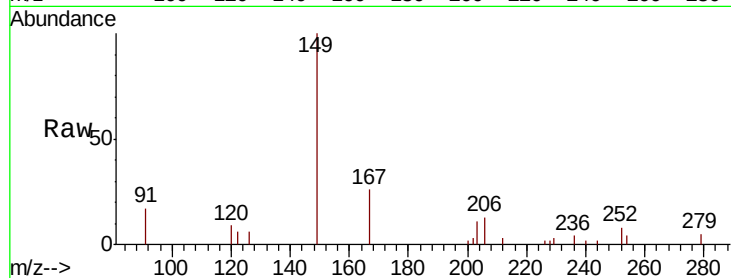
ClientSampleId :

PT-PAH-SOILDL

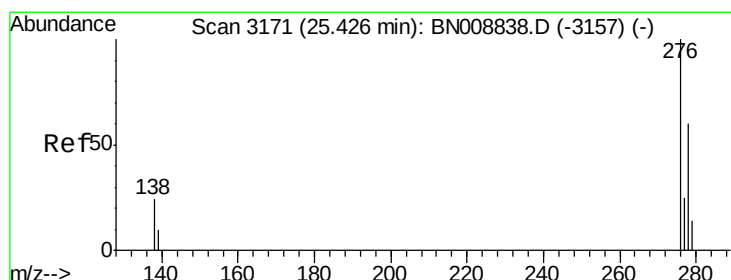
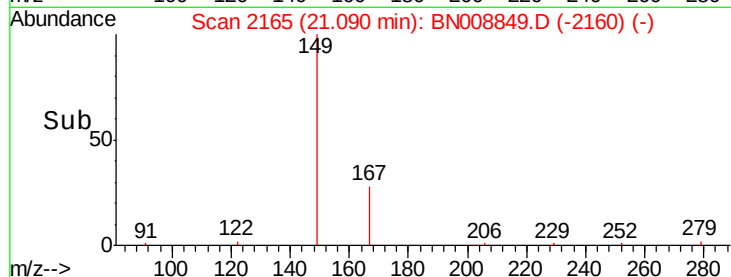
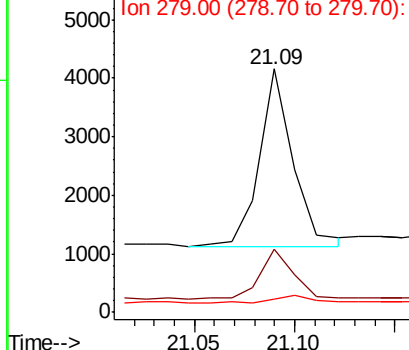
Tot Ion:	149	Resp:	3529
Ion Ratio	Lower	Upper	
149	100		
167	27.5	23.1	34.7
279	4.7	3.4	5.2

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Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 1.729 ng

RT: 25.42 min Scan# 3169

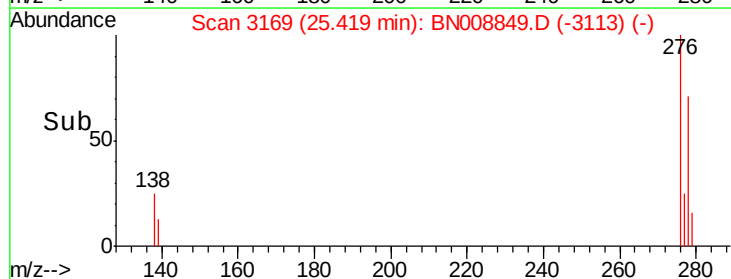
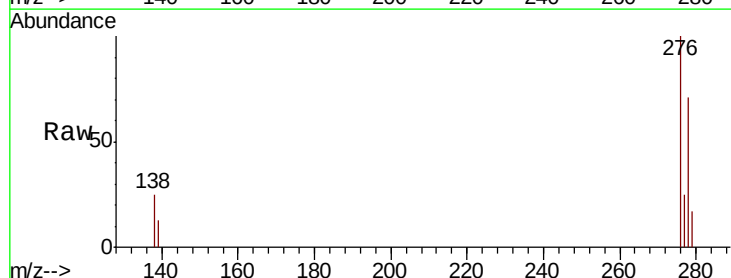
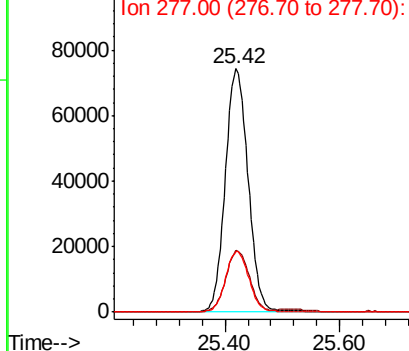
Delta R.T. -0.01 min

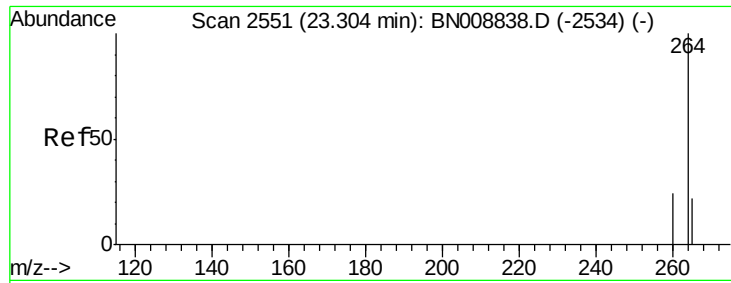
Lab File: BN008849.D

Acq: 05 Dec 2019 15:20

Tgt Ion:	276	Resp:	203900
Ion Ratio	Lower	Upper	
276	100		
138	25.9	20.2	30.2
277	25.0	19.8	29.6

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





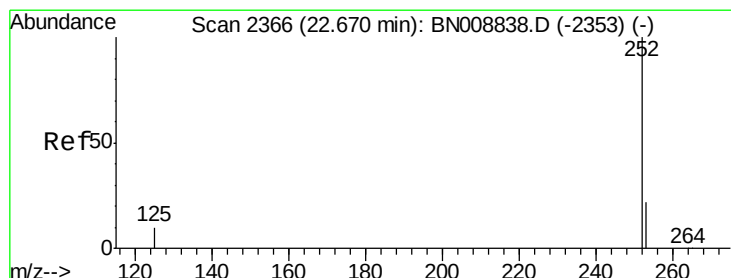
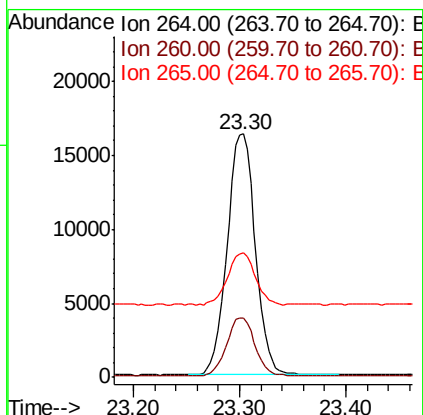
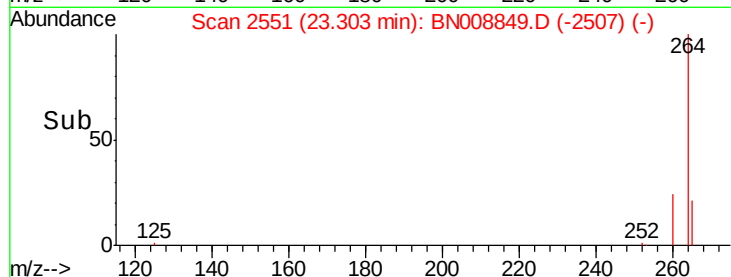
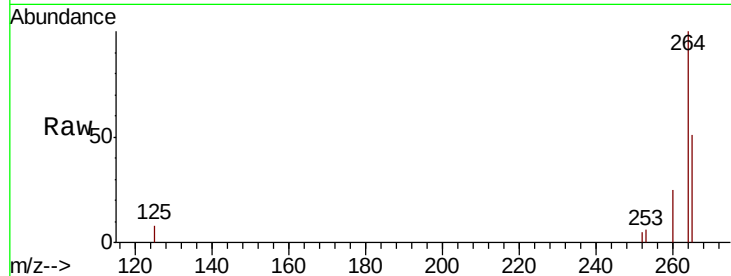
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.30 min Scan# 2551
Delta R.T. -0.00 min
Lab File: BN008849.D
Acq: 05 Dec 2019 15:20

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILDL

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.9	29.9
265	51.1	46.8	70.2

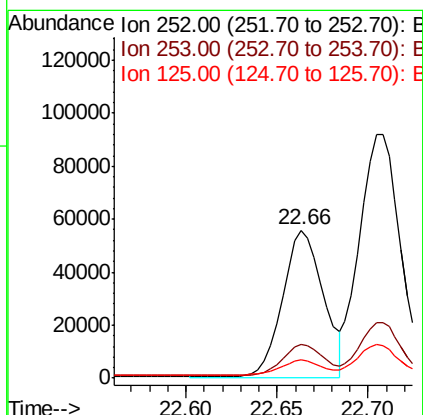
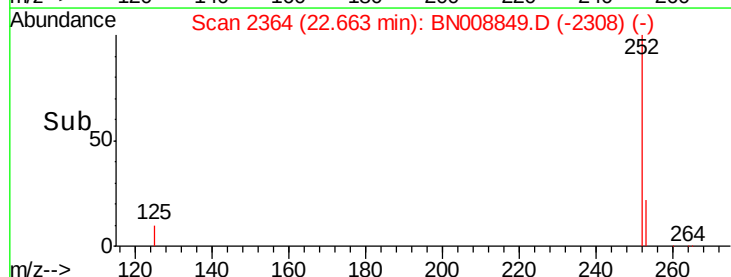
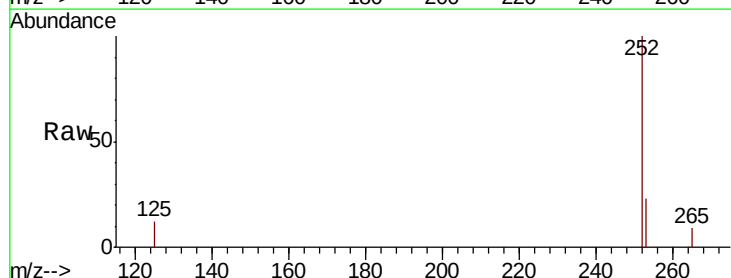
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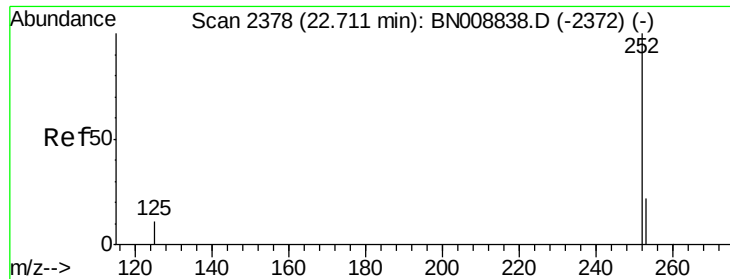
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#35
Benzo(b)fluoranthene
Concen: 0.888 ng m
RT: 22.66 min Scan# 2364
Delta R.T. -0.01 min
Lab File: BN008849.D
Acq: 05 Dec 2019 15:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	20.6	31.0
125	12.0	12.3	18.5





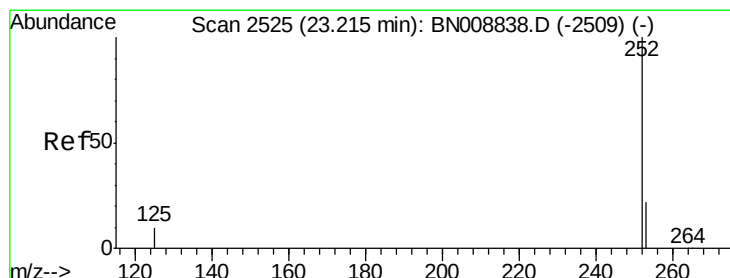
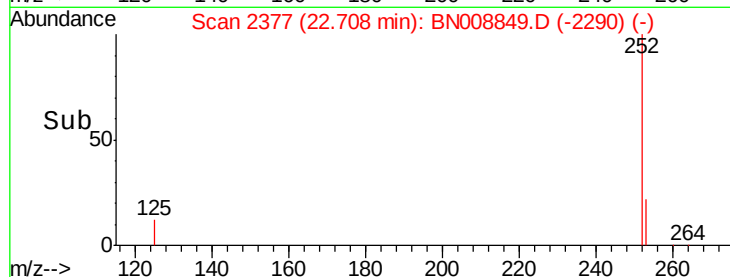
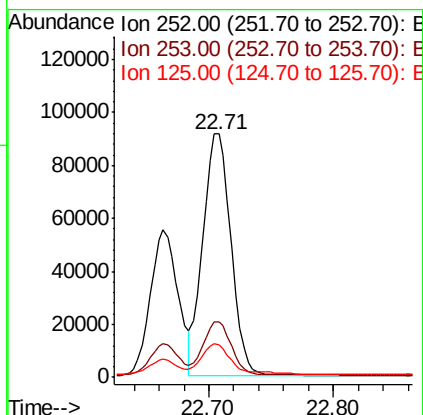
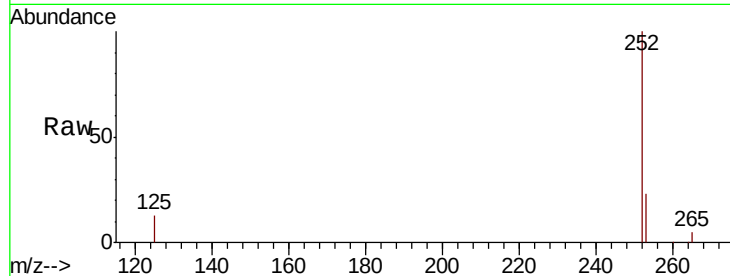
#36
Benzo(k)fluoranthene
Concen: 1.455 ng
RT: 22.71 min Scan# 2377
Delta R.T. -0.00 min
Lab File: BN008849.D
Acq: 05 Dec 2019 15:20

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	21.0	31.4
125	13.2	13.5	20.3

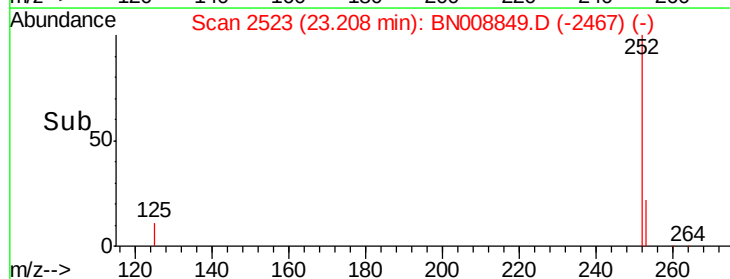
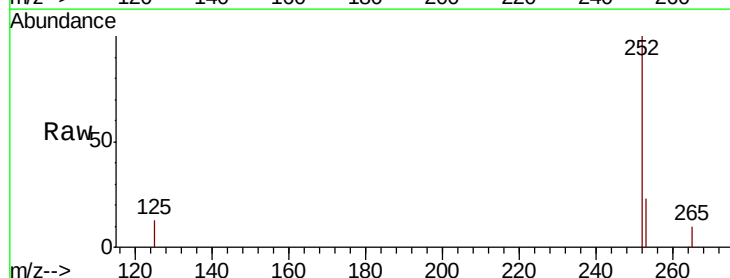
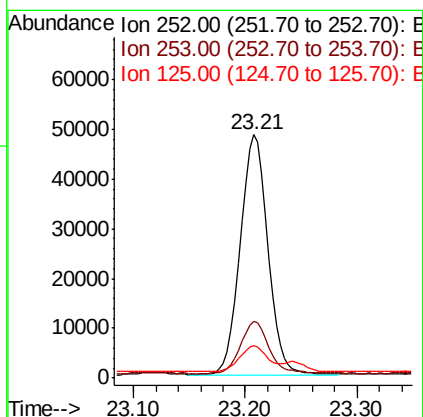
Manual Integrations
APPROVED

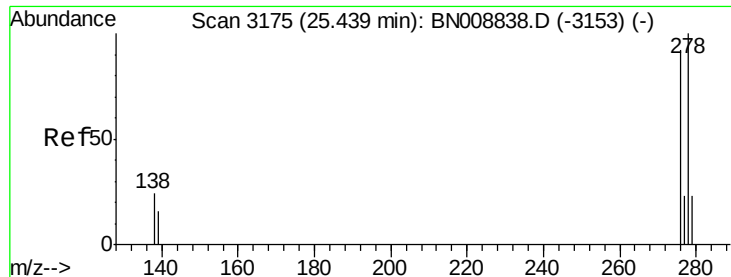
mohammad
12/6/2019 3:02:15 PM



#37
Benzo(a)pyrene
Concen: 0.877 ng
RT: 23.21 min Scan# 2523
Delta R.T. -0.01 min
Lab File: BN008849.D
Acq: 05 Dec 2019 15:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	21.4	32.2
125	13.3	13.7	20.5





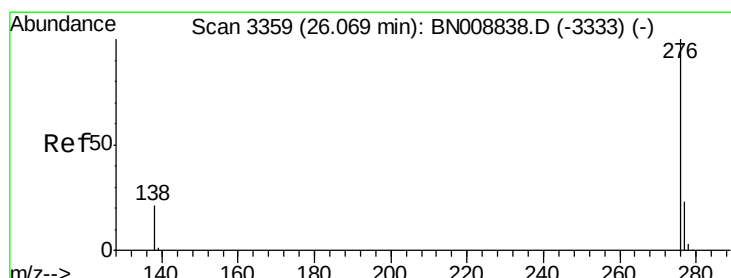
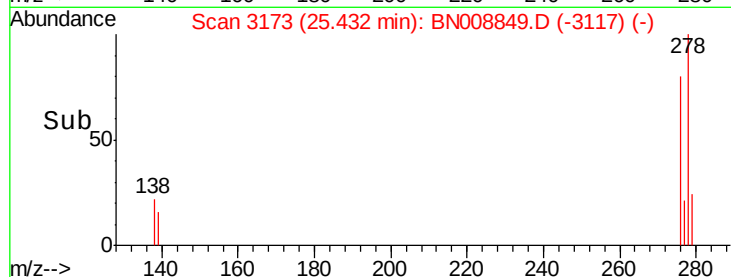
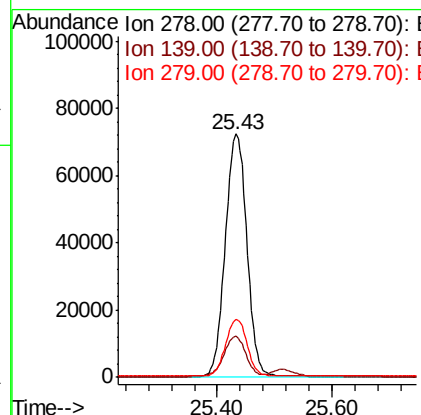
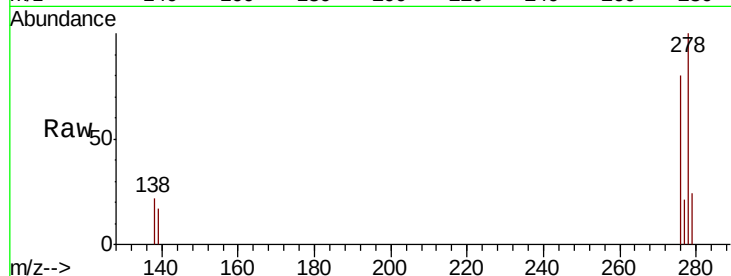
#38
Dibenzo(a,h)anthracene
Concen: 1.968 ng
RT: 25.43 min Scan# 3173
Delta R.T. -0.01 min
Lab File: BN008849.D
Acq: 05 Dec 2019 15:20

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILDL

Tot Ion	Ratio	Lower	Upper
278	100		
139	16.8	15.3	22.9
279	24.0	21.2	31.8

Manual Integrations
APPROVED

mohammad
12/6/2019 3:02:15 PM



#39
Benzo(g,h,i)perylene
Concen: 0.575 ng
RT: 26.06 min Scan# 3356
Delta R.T. -0.01 min
Lab File: BN008849.D
Acq: 05 Dec 2019 15:20

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.4	20.1	30.1
138	22.7	18.6	27.8

