

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032025\
 Data File : BF142019.D
 Acq On : 20 Mar 2025 19:05
 Operator : RC/JU
 Sample : Q1605-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DRUM-SOIL-CUTTING

Quant Time: Mar 21 01:08:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:46:22 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

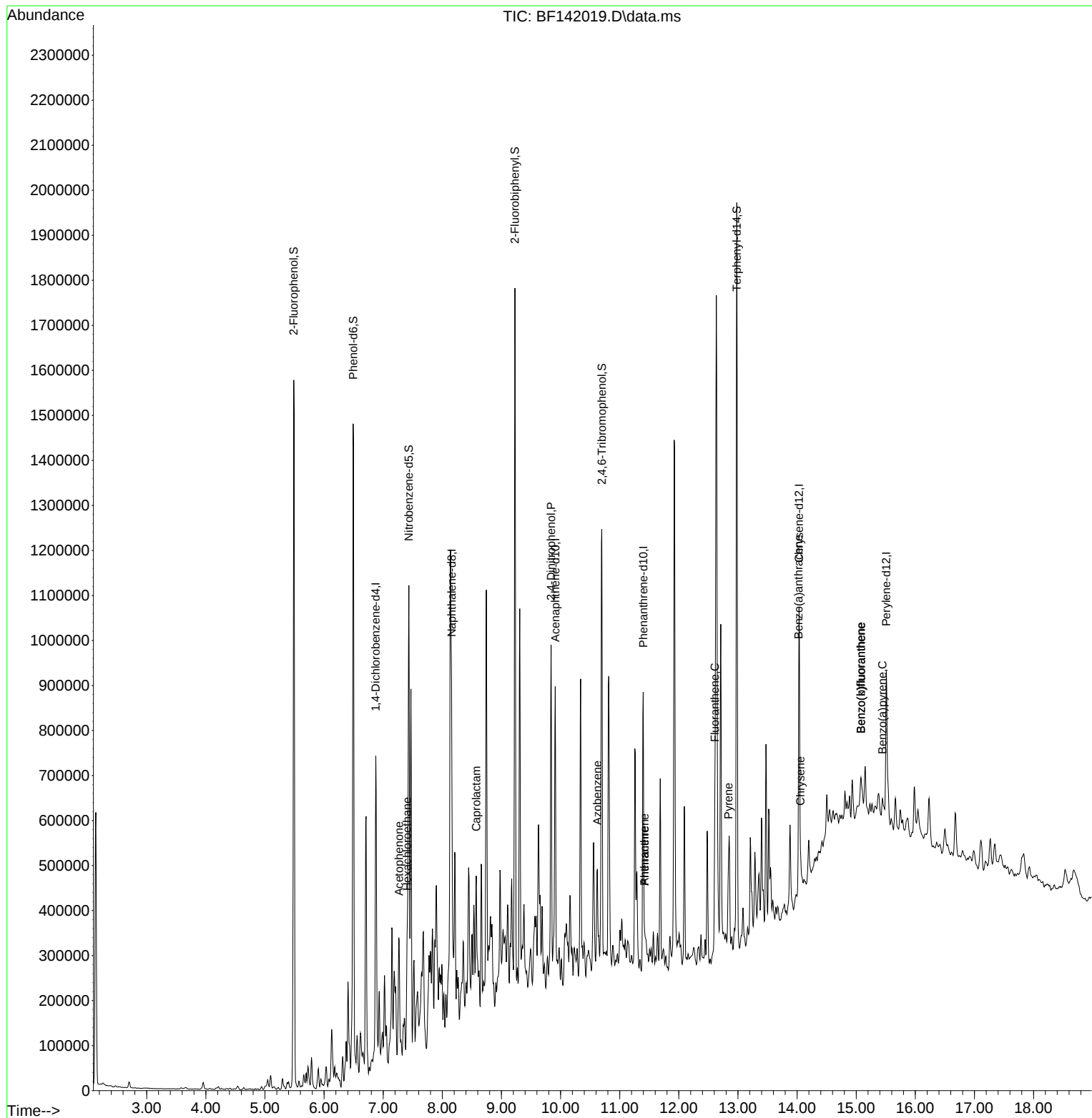
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	124507	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	394080	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	178086	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	308709	20.000	ng	0.00
76) Chrysene-d12	14.033	240	293250	20.000	ng	0.00
86) Perylene-d12	15.509	264	201000	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	605133	81.115	ng	0.00
7) Phenol-d6	6.492	99	687692	72.401	ng	-0.01
23) Nitrobenzene-d5	7.434	82	433636	61.925	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	183860	81.381	ng	0.00
45) 2-Fluorobiphenyl	9.227	172	666534	56.920	ng	-0.01
79) Terphenyl-d14	12.980	244	803978	40.533	ng	0.00
Target Compounds						
						Qvalue
18) Hexachloroethane	7.404	117	15910	4.694	ng	# 1
22) Acetophenone	7.269	105	41399	4.387	ng	# 54
35) Caprolactam	8.575	113	8241	4.629	ng	# 1
54) 2,4-Dinitrophenol	9.839	184	55	6.608	ng	# 1
63) Azobenzene	10.622	77	50951	4.407	ng	# 1
71) Phenanthrene	11.421	178	35011	2.100	ng	96
72) Anthracene	11.421	178	35011	2.093	ng	97
75) Fluoranthene	12.610	202	73691	4.166	ng	98
78) Pyrene	12.839	202	83892	3.307	ng	97
81) Benzo(a)anthracene	14.027	228	40309	2.095	ng	# 81
83) Chrysene	14.057	228	42322	2.426	ng	# 89
88) Benzo(b)fluoranthene	15.080	252	46416	3.369	ng	# 62
89) Benzo(k)fluoranthene	15.080	252	46416	3.937	ng	# 63
90) Benzo(a)pyrene	15.445	252	23532	2.183	ng	# 60

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032025\
Data File : BF142019.D
Acq On : 20 Mar 2025 19:05
Operator : RC/JU
Sample : Q1605-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DRUM-SOIL-CUTTING

Quant Time: Mar 21 01:08:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

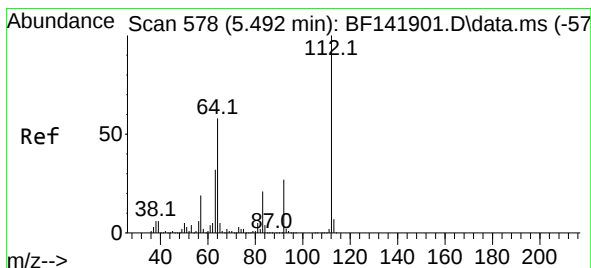
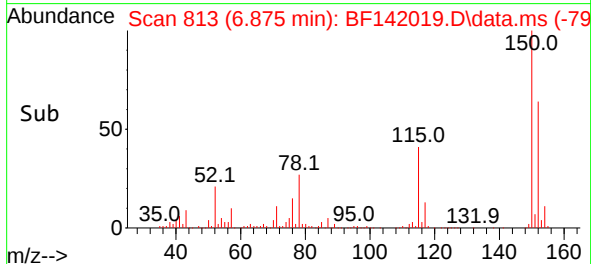
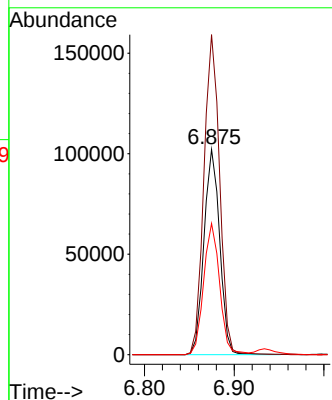
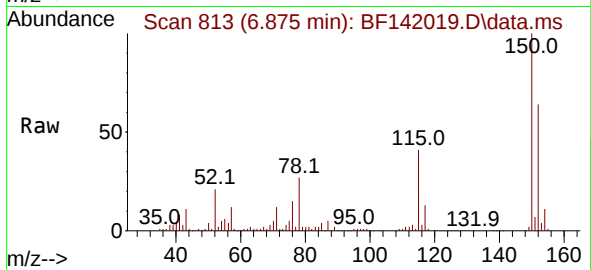




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.875 min Scan# 814
 Delta R.T. -0.006 min
 Lab File: BF142019.D
 Acq: 20 Mar 2025 19:05

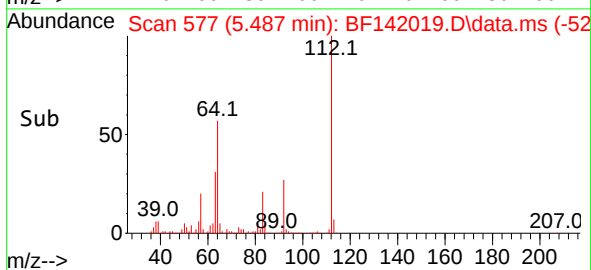
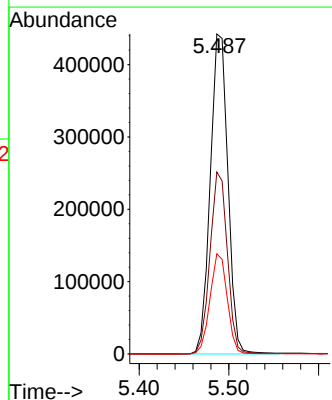
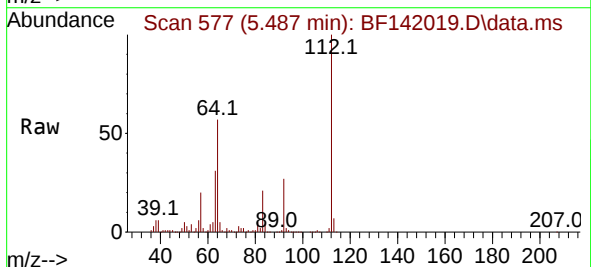
Instrument :
 BNA_F
 ClientSampleId :
 DRUM-SOIL-CUTTING

Tgt Ion:152 Resp: 124507
 Ion Ratio Lower Upper
 152 100
 150 155.8 127.4 191.2
 115 63.9 51.9 77.9



#5
 2-Fluorophenol
 Concen: 81.115 ng
 RT: 5.487 min Scan# 577
 Delta R.T. -0.006 min
 Lab File: BF142019.D
 Acq: 20 Mar 2025 19:05

Tgt Ion:112 Resp: 605133
 Ion Ratio Lower Upper
 112 100
 64 56.9 46.5 69.7
 63 31.3 25.4 38.2

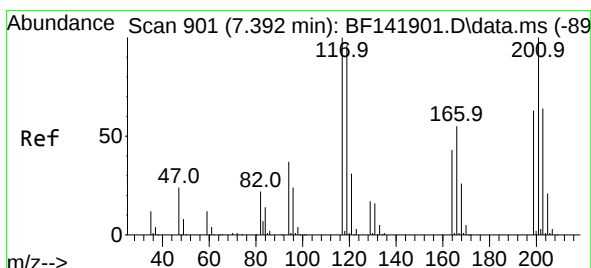
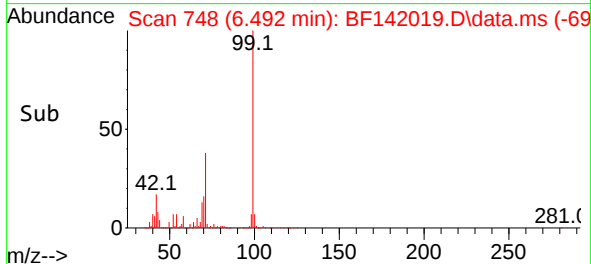
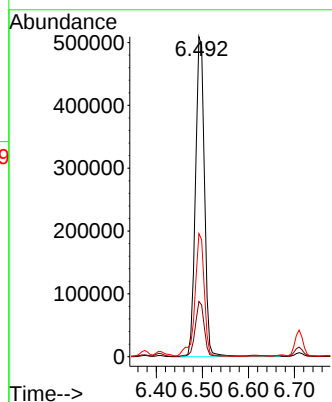
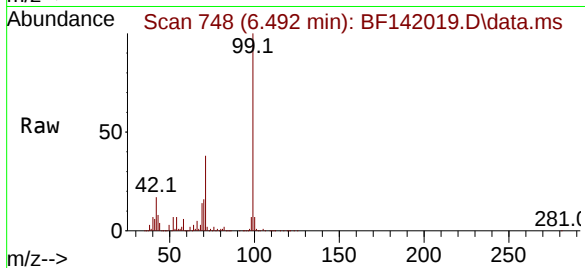




#7
Phenol-d6
Concen: 72.401 ng
RT: 6.492 min Scan# 741
Delta R.T. -0.012 min
Lab File: BF142019.D
Acq: 20 Mar 2025 19:05

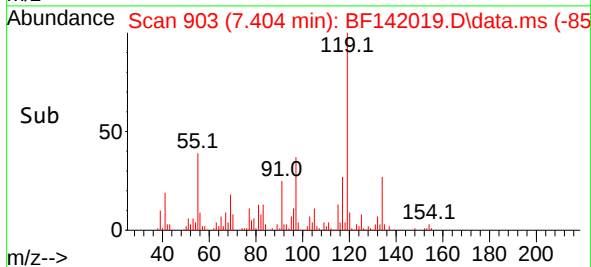
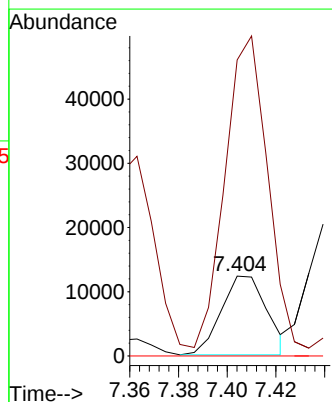
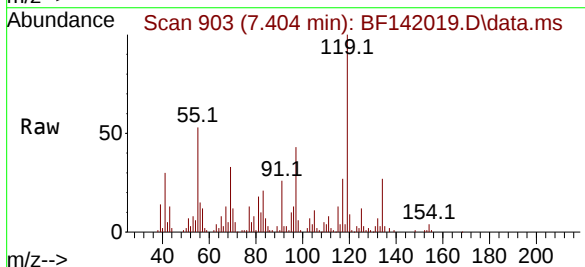
Instrument :
BNA_F
ClientSampleId :
DRUM-SOIL-CUTTING

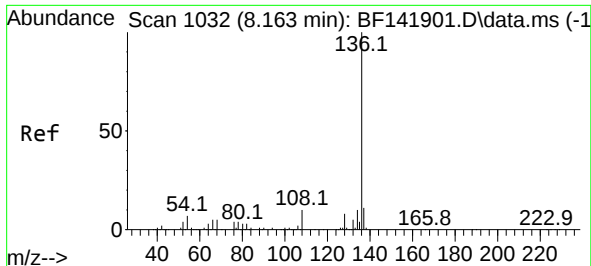
Tgt Ion: 99 Resp: 687692
Ion Ratio Lower Upper
99 100
42 17.3 14.6 21.8
71 38.5 30.8 46.2



#18
Hexachloroethane
Concen: 4.694 ng
RT: 7.404 min Scan# 903
Delta R.T. 0.012 min
Lab File: BF142019.D
Acq: 20 Mar 2025 19:05

Tgt Ion: 117 Resp: 15910
Ion Ratio Lower Upper
117 100
119 370.8 76.9 115.3#
201 0.0 79.9 119.9#



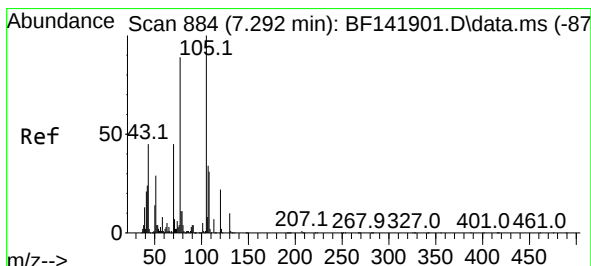
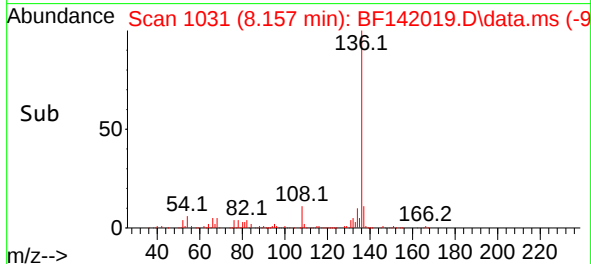
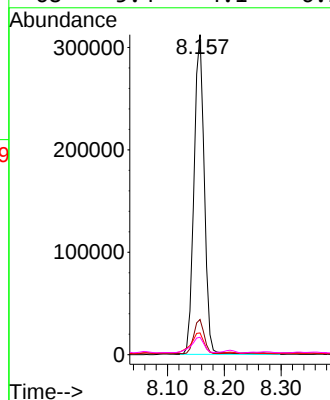
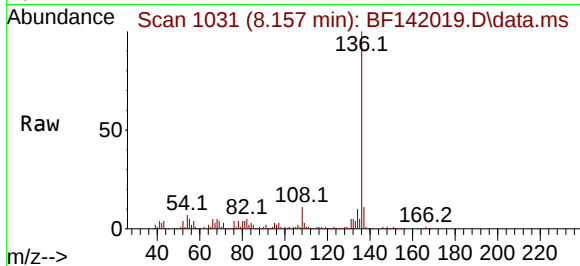


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1031
Delta R.T. -0.006 min
Lab File: BF142019.D
Acq: 20 Mar 2025 19:05

Instrument :
BNA_F
ClientSampleId :
DRUM-SOIL-CUTTING

Tgt Ion:136 Resp: 394080

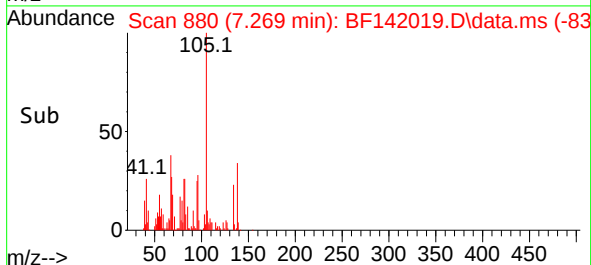
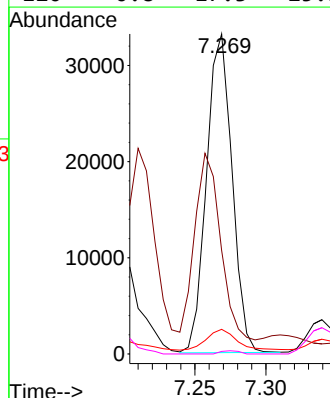
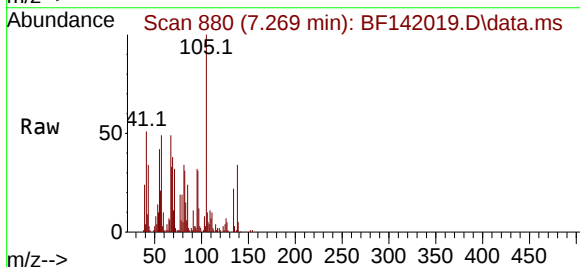
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	6.8	5.8	8.8
68	5.4	4.1	6.1

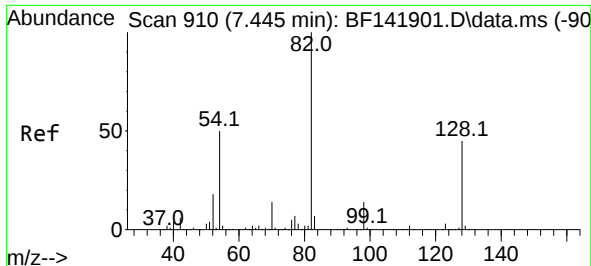


#22
Acetophenone
Concen: 4.387 ng
RT: 7.269 min Scan# 880
Delta R.T. -0.024 min
Lab File: BF142019.D
Acq: 20 Mar 2025 19:05

Tgt Ion:105 Resp: 41399

Ion	Ratio	Lower	Upper
105	100		
71	32.4	5.8	8.8#
51	7.7	23.4	35.0#
120	0.8	17.3	25.9#

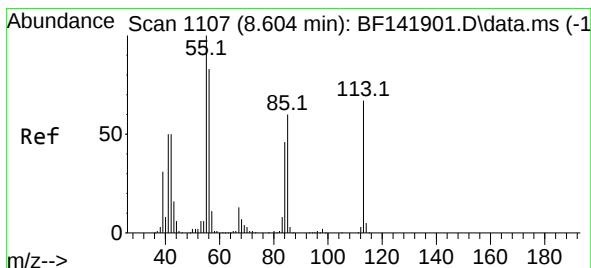
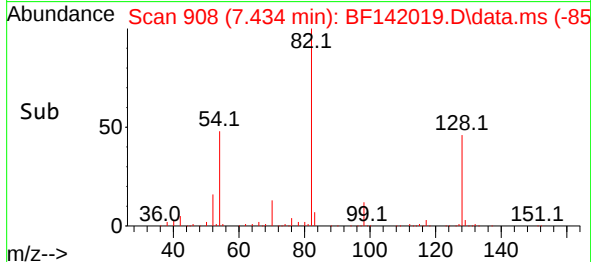
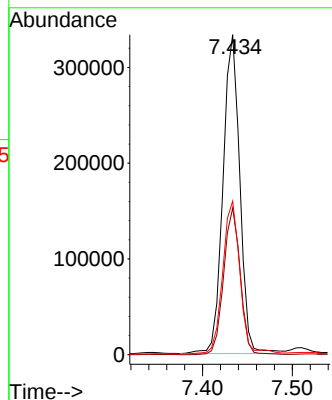
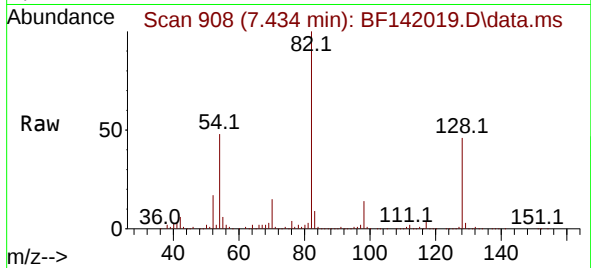




#23
Nitrobenzene-d5
Concen: 61.925 ng
RT: 7.434 min Scan# 90
Delta R.T. -0.012 min
Lab File: BF142019.D
Acq: 20 Mar 2025 19:05

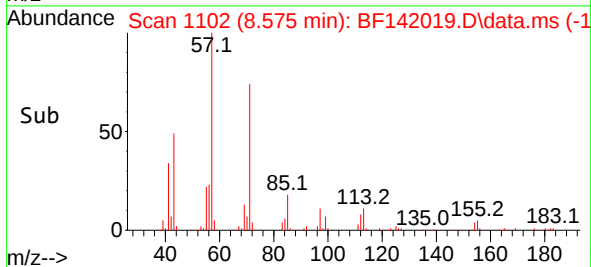
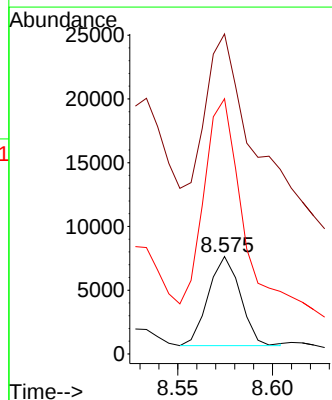
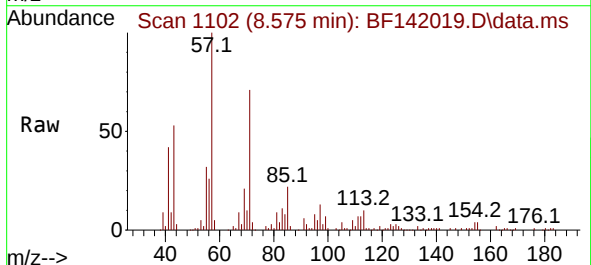
Instrument :
BNA_F
ClientSampleId :
DRUM-SOIL-CUTTING

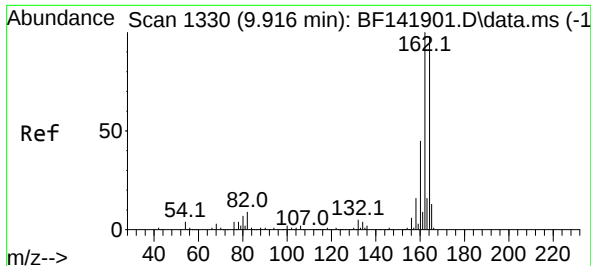
Tgt Ion: 82 Resp: 433636
Ion Ratio Lower Upper
82 100
128 45.8 36.0 54.0
54 48.0 39.6 59.4



#35
Caprolactam
Concen: 4.629 ng
RT: 8.575 min Scan# 1102
Delta R.T. -0.029 min
Lab File: BF142019.D
Acq: 20 Mar 2025 19:05

Tgt Ion: 113 Resp: 8241
Ion Ratio Lower Upper
113 100
55 328.5 129.6 169.6#
56 262.0 104.0 144.0#

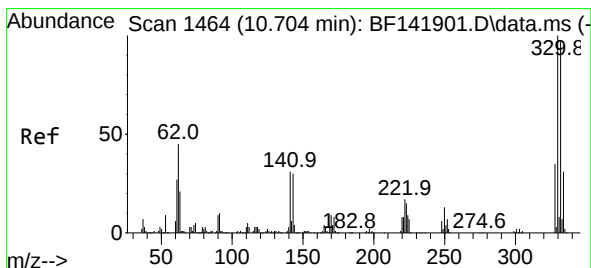
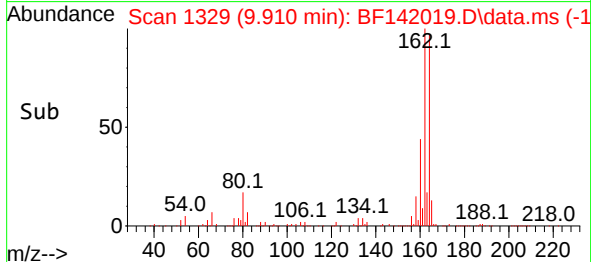
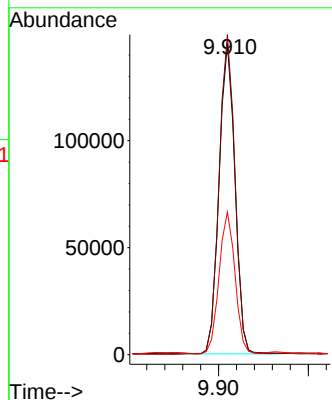
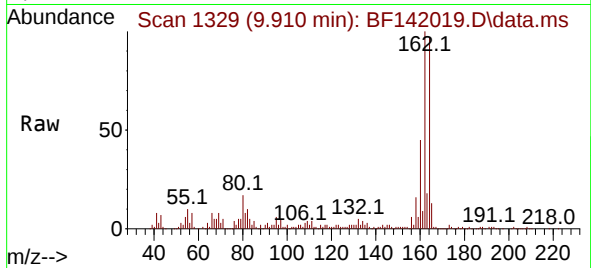




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142019.D
Acq: 20 Mar 2025 19:05

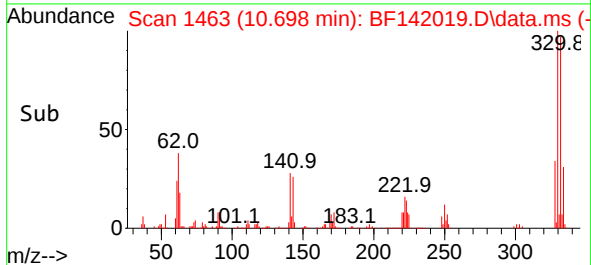
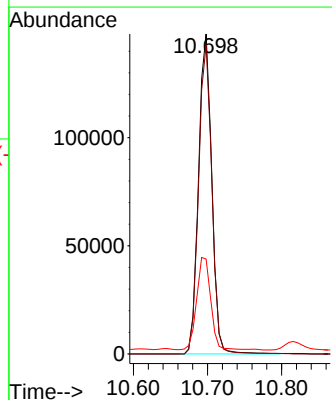
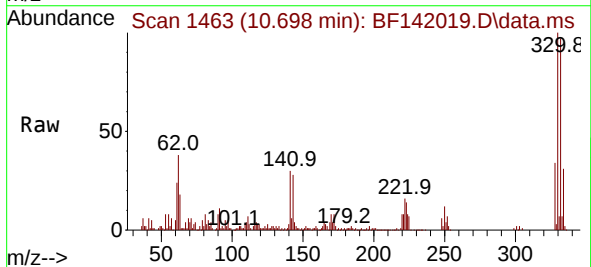
Instrument :
BNA_F
ClientSampleId :
DRUM-SOIL-CUTTING

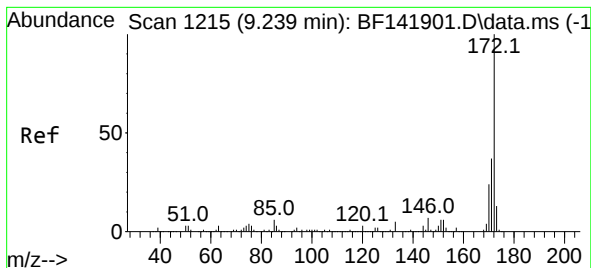
Tgt Ion:164 Resp: 178086
Ion Ratio Lower Upper
164 100
162 102.9 81.8 122.6
160 45.9 36.7 55.1



#42
2,4,6-Tribromophenol
Concen: 81.381 ng
RT: 10.698 min Scan# 1463
Delta R.T. -0.006 min
Lab File: BF142019.D
Acq: 20 Mar 2025 19:05

Tgt Ion:330 Resp: 183860
Ion Ratio Lower Upper
330 100
332 96.3 77.6 116.4
141 30.2 24.7 37.1





#45

2-Fluorobiphenyl

Concen: 56.920 ng

RT: 9.227 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF142019.D

Acq: 20 Mar 2025 19:05

Instrument :

BNA_F

ClientSampleId :

DRUM-SOIL-CUTTING

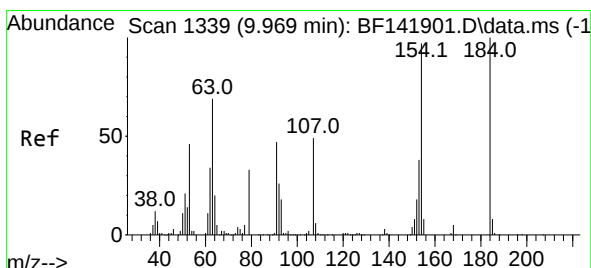
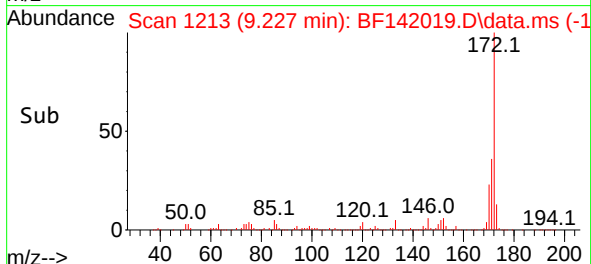
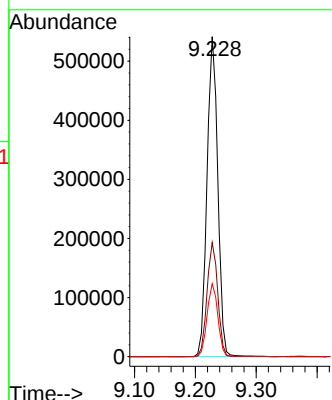
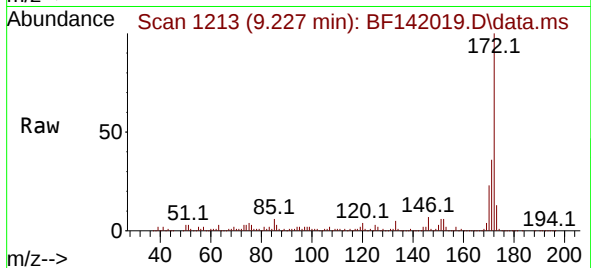
Tgt Ion:172 Resp: 666534

Ion Ratio Lower Upper

172 100

171 35.7 29.3 43.9

170 22.8 19.4 29.0



#54

2,4-Dinitrophenol

Concen: 6.608 ng

RT: 9.839 min Scan# 1317

Delta R.T. -0.130 min

Lab File: BF142019.D

Acq: 20 Mar 2025 19:05

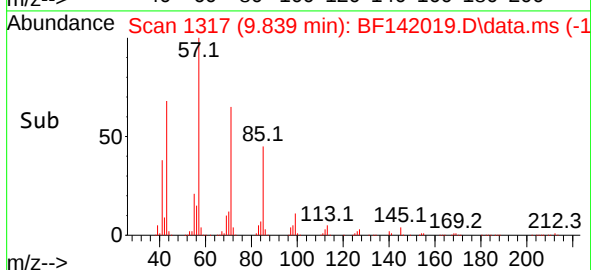
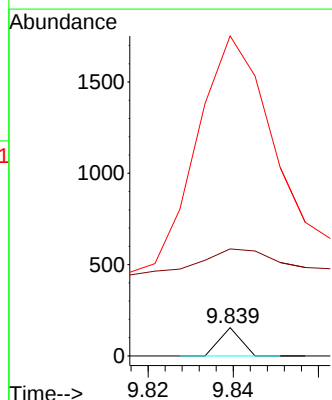
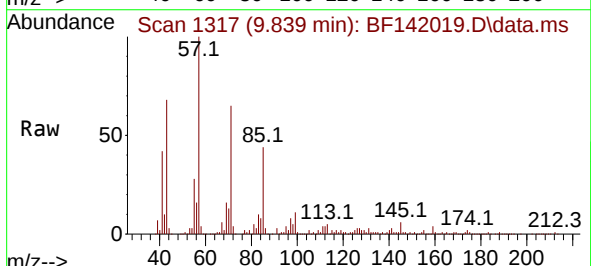
Tgt Ion:184 Resp: 55

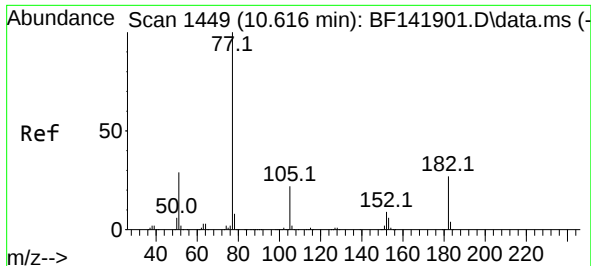
Ion Ratio Lower Upper

184 100

63 378.1 60.2 90.4#

154 1130.3 132.9 199.3#

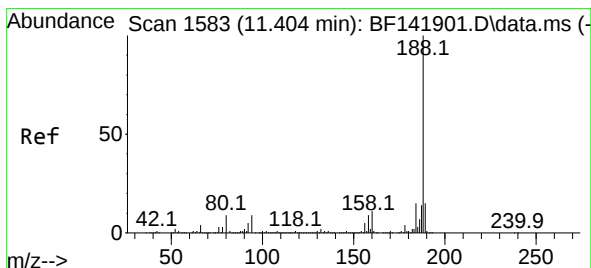
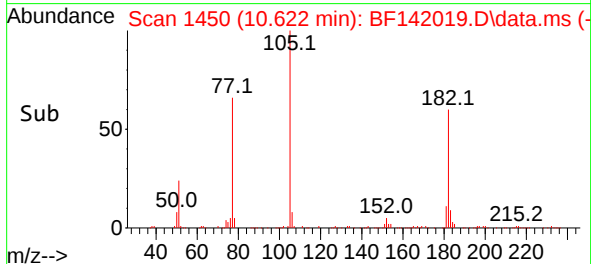
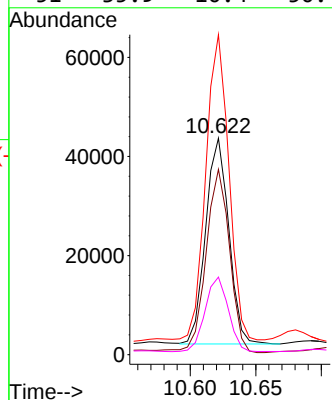
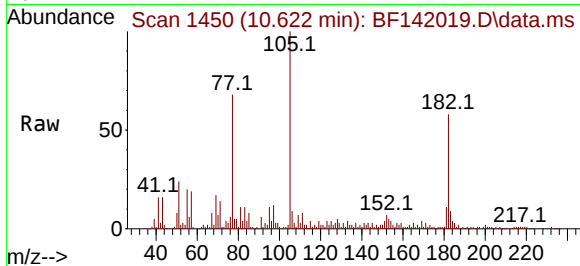




#63
Azobenzene
Concen: 4.407 ng
RT: 10.622 min Scan# 1449
Delta R.T. 0.006 min
Lab File: BF142019.D
Acq: 20 Mar 2025 19:05

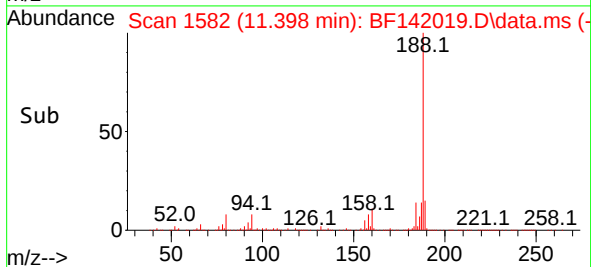
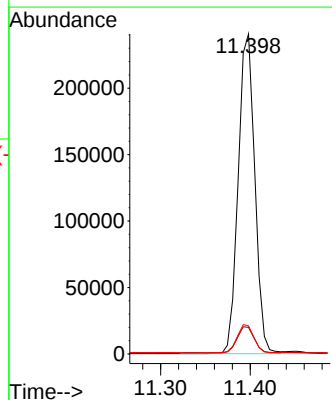
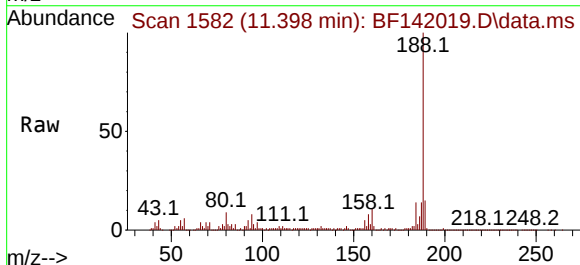
Instrument :
BNA_F
ClientSampleId :
DRUM-SOIL-CUTTING

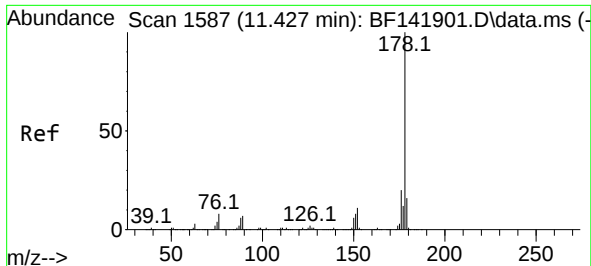
Tgt Ion: 77	Resp: 50951
Ion Ratio	Lower Upper
77	100
182	85.6 6.6 46.6#
105	147.9 1.3 41.3#
51	35.9 10.4 50.4



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1582
Delta R.T. -0.006 min
Lab File: BF142019.D
Acq: 20 Mar 2025 19:05

Tgt Ion: 188	Resp: 308709
Ion Ratio	Lower Upper
188	100
94	8.3 6.8 10.2
80	8.8 7.6 11.4

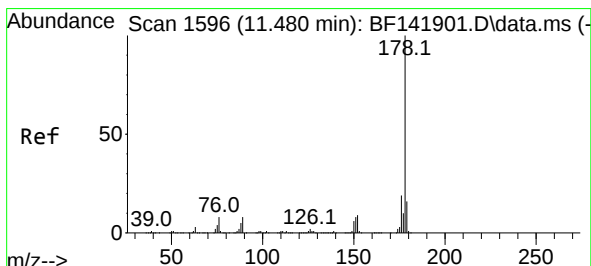
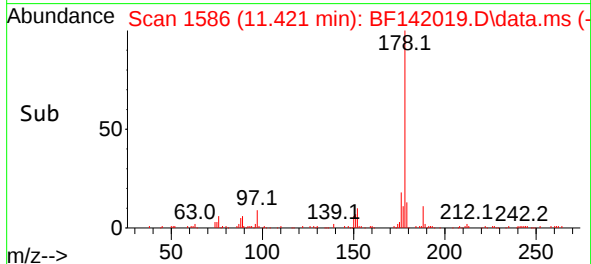
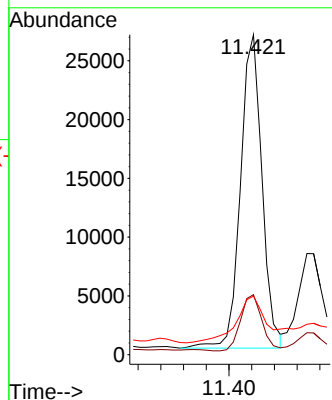
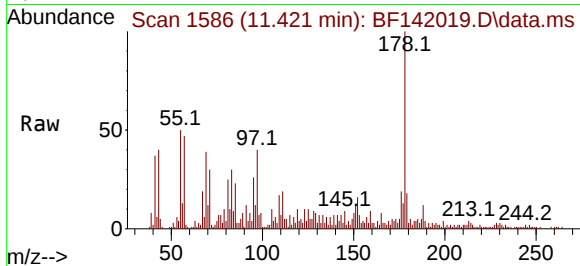




#71
Phenanthrene
Concen: 2.100 ng
RT: 11.421 min Scan# 1586
Delta R.T. -0.006 min
Lab File: BF142019.D
Acq: 20 Mar 2025 19:05

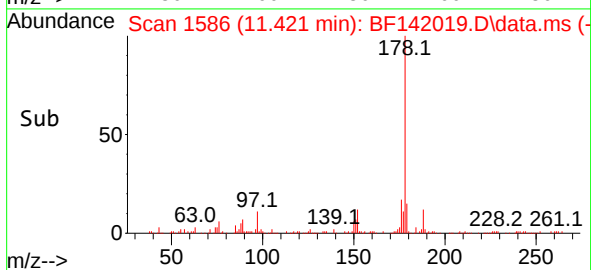
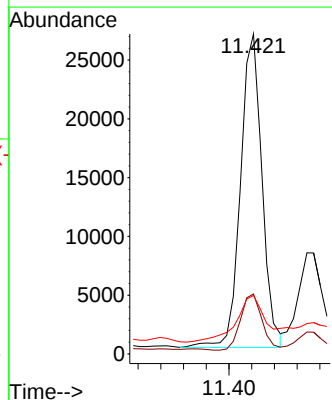
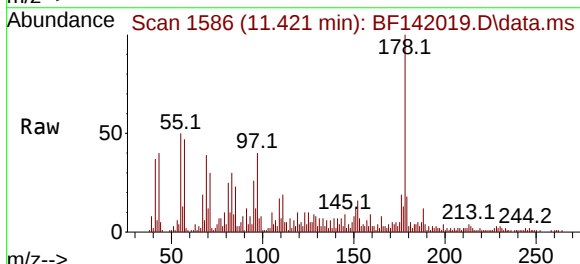
Instrument :
BNA_F
ClientSampleId :
DRUM-SOIL-CUTTING

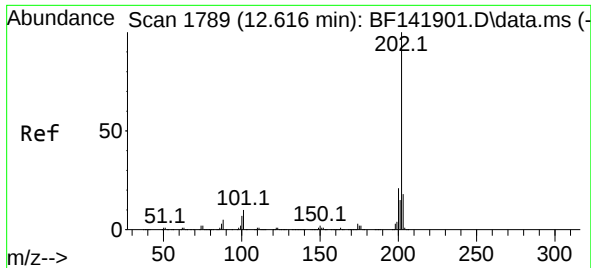
Tgt Ion:178	Resp:	35011
Ion Ratio	Lower	Upper
178	100	
176	18.8	15.8 23.8
179	18.3	12.6 19.0



#72
Anthracene
Concen: 2.093 ng
RT: 11.421 min Scan# 1586
Delta R.T. -0.059 min
Lab File: BF142019.D
Acq: 20 Mar 2025 19:05

Tgt Ion:178	Resp:	35011
Ion Ratio	Lower	Upper
178	100	
176	18.8	15.1 22.7
179	18.3	12.6 19.0

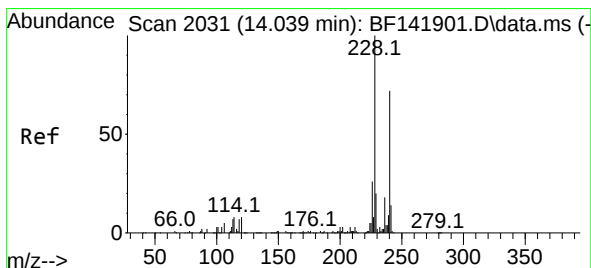
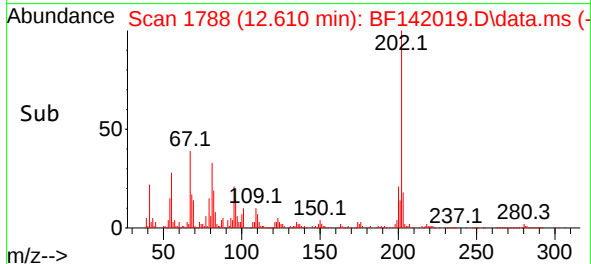
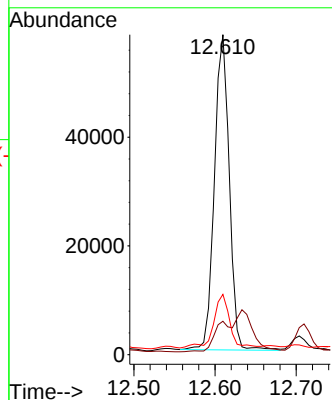
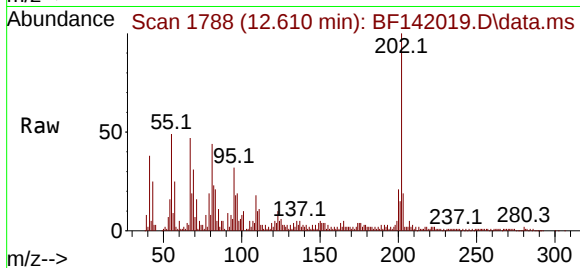




#75
Fluoranthene
Concen: 4.166 ng
RT: 12.610 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142019.D
Acq: 20 Mar 2025 19:05

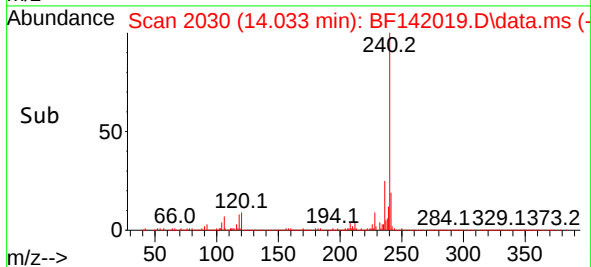
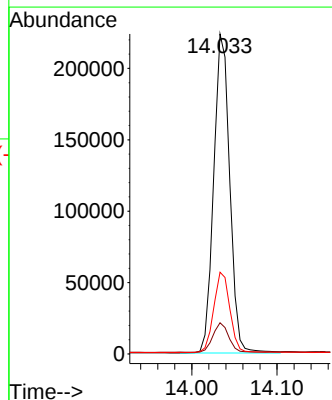
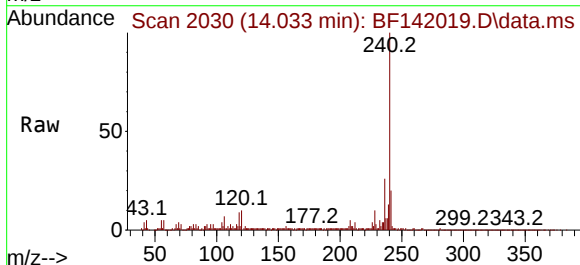
Instrument :
BNA_F
ClientSampleId :
DRUM-SOIL-CUTTING

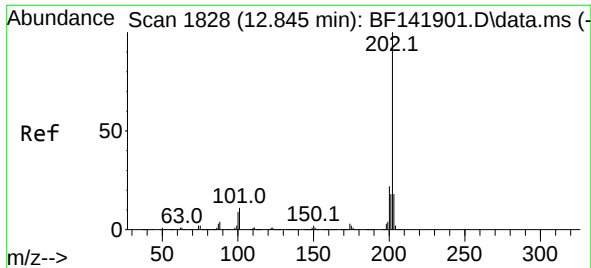
Tgt Ion:202 Resp: 73691
Ion Ratio Lower Upper
202 100
101 10.4 0.0 29.7
203 18.8 0.0 37.8



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.006 min
Lab File: BF142019.D
Acq: 20 Mar 2025 19:05

Tgt Ion:240 Resp: 293250
Ion Ratio Lower Upper
240 100
120 9.7 8.4 12.6
236 25.6 20.5 30.7

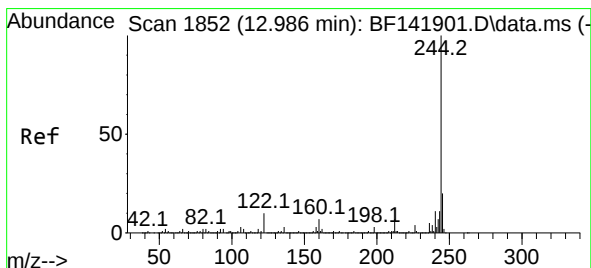
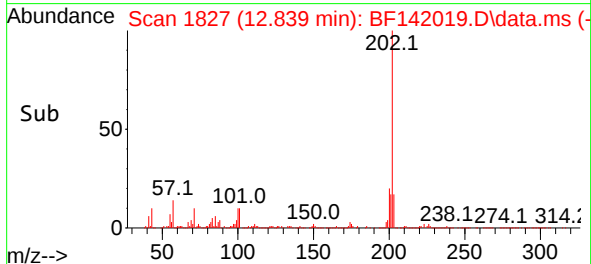
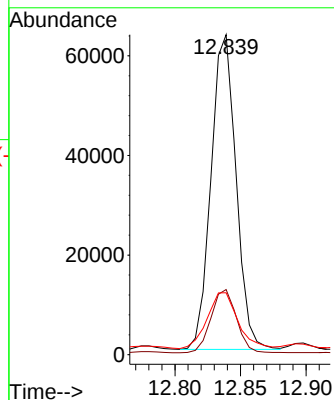
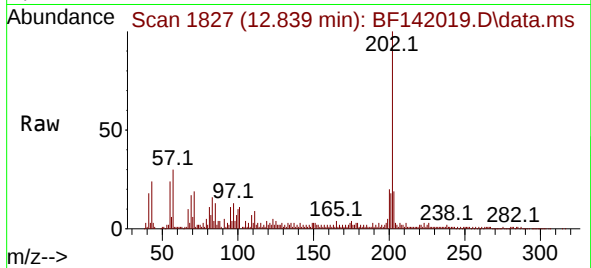




#78
 Pyrene
 Concen: 3.307 ng
 RT: 12.839 min Scan# 1827
 Delta R.T. -0.006 min
 Lab File: BF142019.D
 Acq: 20 Mar 2025 19:05

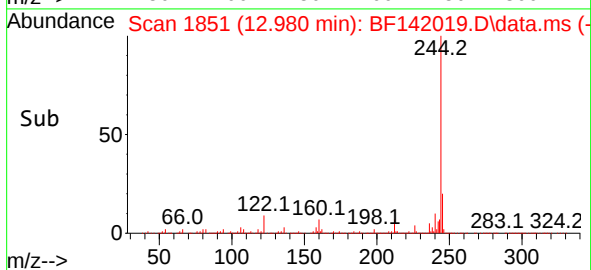
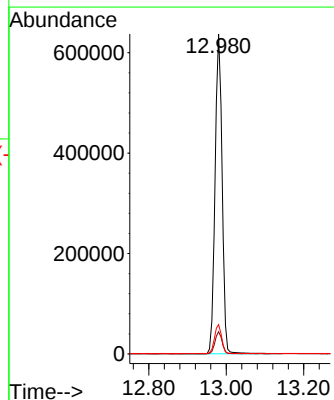
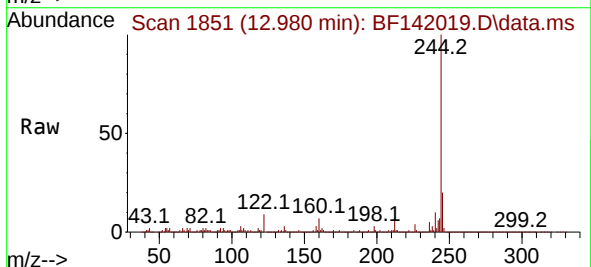
Instrument :
 BNA_F
 ClientSampleId :
 DRUM-SOIL-CUTTING

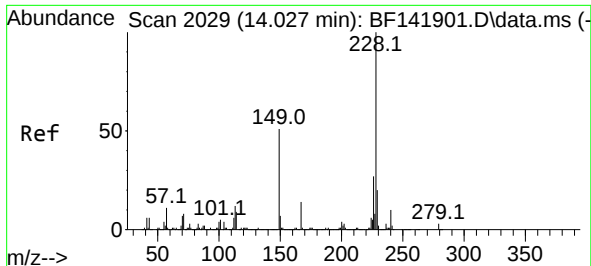
Tgt Ion:	202	Resp:	83892
Ion Ratio	Lower	Upper	
202	100		
200	20.3	17.3	25.9
203	19.4	14.4	21.6



#79
 Terphenyl-d14
 Concen: 40.533 ng
 RT: 12.980 min Scan# 1851
 Delta R.T. -0.006 min
 Lab File: BF142019.D
 Acq: 20 Mar 2025 19:05

Tgt Ion:	244	Resp:	803978
Ion Ratio	Lower	Upper	
244	100		
212	6.9	6.0	9.0
122	9.2	7.7	11.5

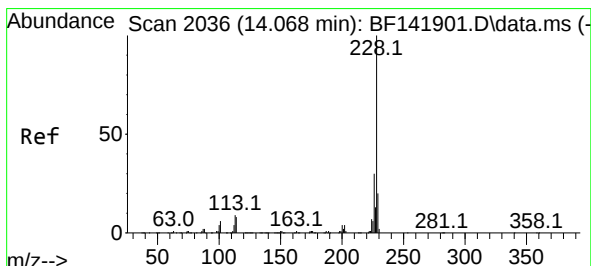
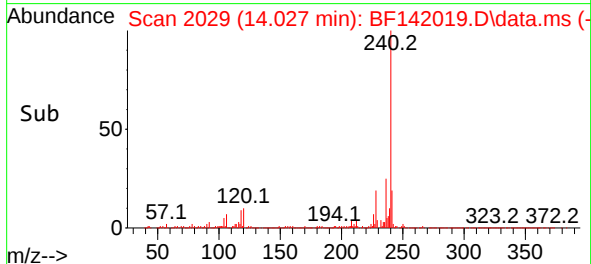
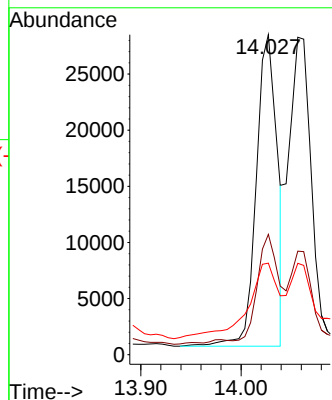
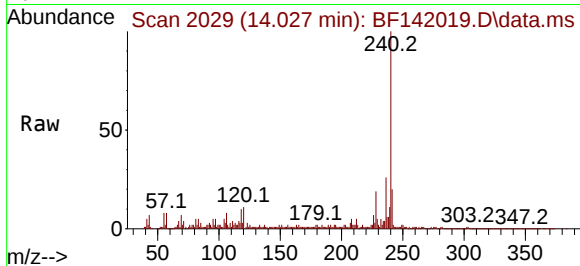




#81
Benzo(a)anthracene
Concen: 2.095 ng
RT: 14.027 min Scan# 2029
Delta R.T. 0.000 min
Lab File: BF142019.D
Acq: 20 Mar 2025 19:05

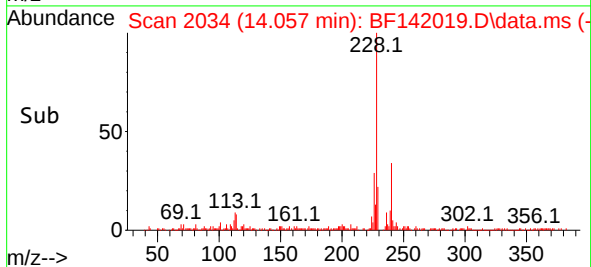
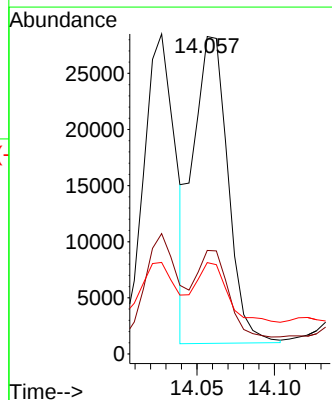
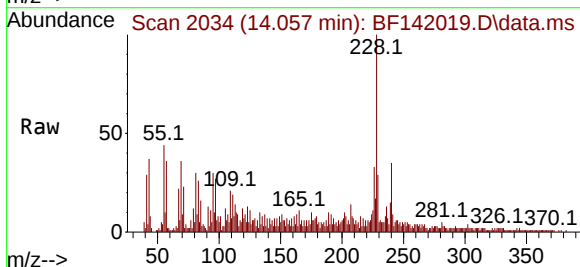
Instrument :
BNA_F
ClientSampleId :
DRUM-SOIL-CUTTING

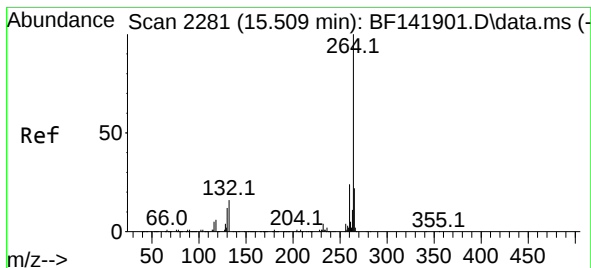
Tgt Ion:228 Resp: 40309
Ion Ratio Lower Upper
228 100
226 37.6 21.8 32.8#
229 28.6 16.0 24.0#



#83
Chrysene
Concen: 2.426 ng
RT: 14.057 min Scan# 2034
Delta R.T. -0.012 min
Lab File: BF142019.D
Acq: 20 Mar 2025 19:05

Tgt Ion:228 Resp: 42322
Ion Ratio Lower Upper
228 100
226 32.6 24.1 36.1
229 28.8 15.7 23.5#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.509 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF142019.D

Acq: 20 Mar 2025 19:05

Instrument :

BNA_F

ClientSampleId :

DRUM-SOIL-CUTTING

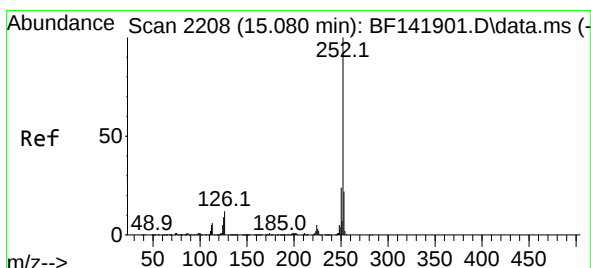
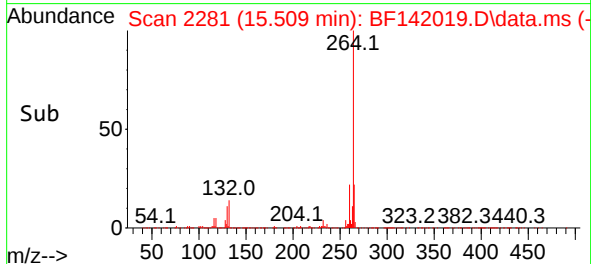
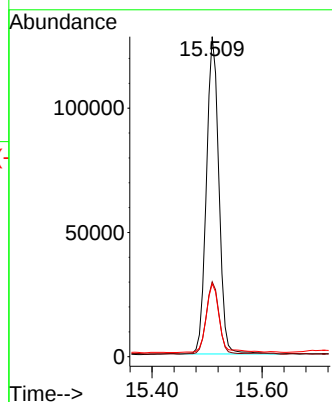
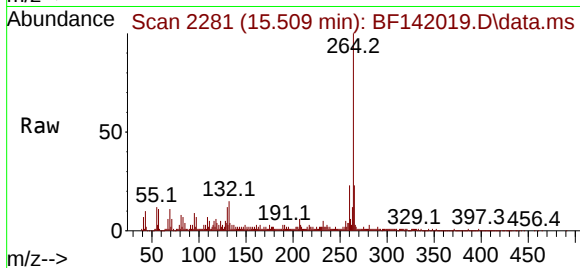
Tgt Ion:264 Resp: 201000

Ion Ratio Lower Upper

264 100

260 23.4 19.1 28.7

265 22.8 17.5 26.3



#88

Benzo(b)fluoranthene

Concen: 3.369 ng

RT: 15.080 min Scan# 2208

Delta R.T. 0.000 min

Lab File: BF142019.D

Acq: 20 Mar 2025 19:05

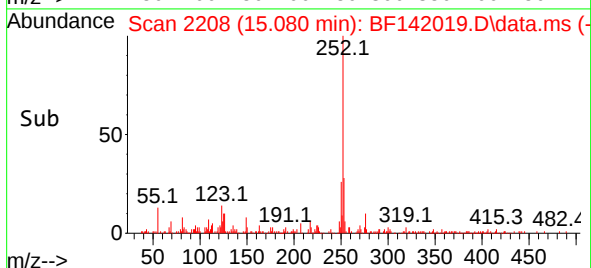
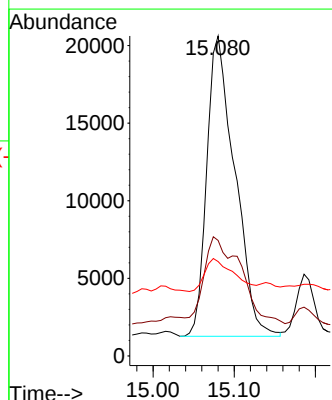
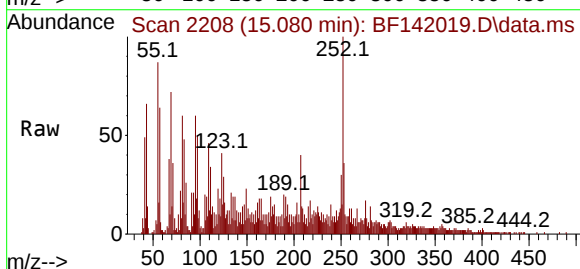
Tgt Ion:252 Resp: 46416

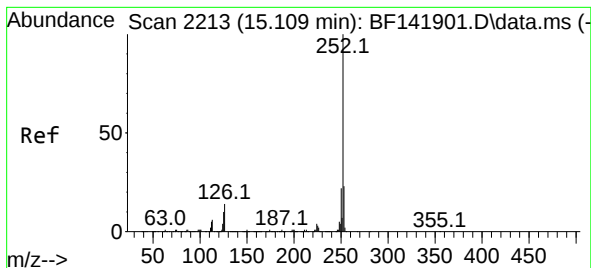
Ion Ratio Lower Upper

252 100

253 36.1 17.5 26.3#

125 29.5 7.0 10.4#





#89

Benzo(k)fluoranthene

Concen: 3.937 ng

RT: 15.080 min Scan# 21

Delta R.T. -0.029 min

Lab File: BF142019.D

Acq: 20 Mar 2025 19:05

Instrument :

BNA_F

ClientSampleId :

DRUM-SOIL-CUTTING

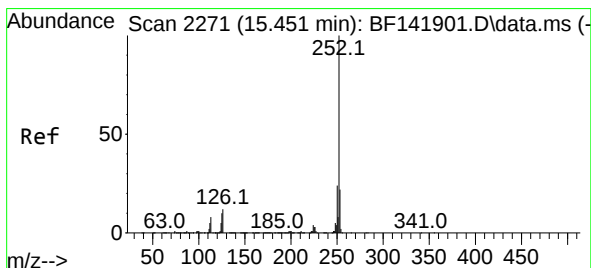
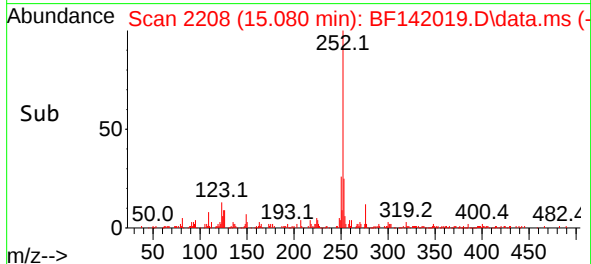
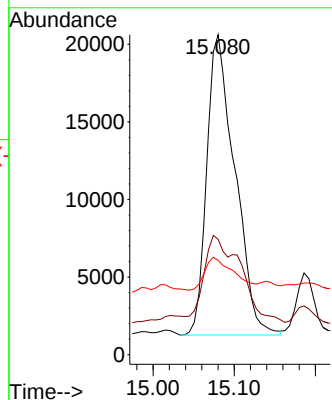
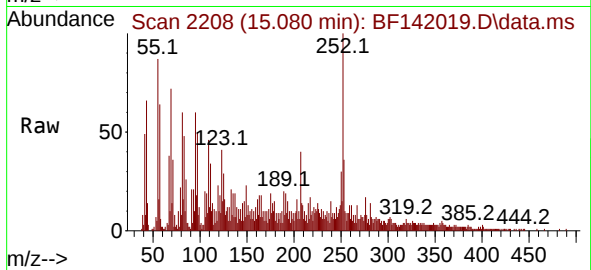
Tgt Ion:252 Resp: 46416

Ion Ratio Lower Upper

252 100

253 36.1 17.7 26.5#

125 29.5 7.2 10.8#



#90

Benzo(a)pyrene

Concen: 2.183 ng

RT: 15.445 min Scan# 2270

Delta R.T. -0.006 min

Lab File: BF142019.D

Acq: 20 Mar 2025 19:05

Tgt Ion:252 Resp: 23532

Ion Ratio Lower Upper

252 100

253 35.4 17.4 26.0#

125 33.2 7.8 11.8#

