

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
 Data File : BF118410.D
 Acq On : 31 Dec 2019 17:30
 Operator : JU
 Sample : K6469-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 174-NC-TOPSOIL-001

Manual Integrations
 APPROVED

mohammad
 1/2/2020 11:49:59 AM

Quant Time: Jan 01 02:25:27 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 24 15:58:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	67880	20.00	ng	0.00
21) Naphthalene-d8	8.14	136	270980	20.00	ng	0.00
39) Acenaphthene-d10	9.90	164	167989	20.00	ng	0.00
64) Phenanthrene-d10	11.40	188	310309	20.00	ng	0.00
76) Chrysene-d12	14.05	240	201401	20.00	ng	0.00
87) Perylene-d12	15.55	264	219510	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	414910	104.34	ng	0.01
7) Phenol-d6	6.49	99	535313	108.52	ng	0.00
23) Nitrobenzene-d5	7.42	82	351848	74.26	ng	0.00
42) 2,4,6-Tribromophenol	10.70	330	211750	102.07	ng	0.00
45) 2-Fluorobiphenyl	9.22	172	676534	61.47	ng	0.00
79) Terphenyl-d14	12.99	244	730683	60.19	ng	0.00
Target Compounds						
10) Phenol	6.50	94	14741	2.659	ng	# 70
20) 3+4-Methylphenols	7.28	107	22672	4.904	ng	# 53
50) Dimethylphthalate	9.61	163	46655	3.700	ng	100
71) Phenanthrene	11.42	178	291852	17.253	ng	98
72) Anthracene	11.47	178	73344	4.332	ng	96
75) Fluoranthene	12.62	202	310123	18.165	ng	99
78) Pyrene	12.84	202	267863	16.287	ng	99
81) Benzo(a)anthracene	14.04	228	129251	9.168	ng	98
83) Chrysene	14.08	228	121813	9.024	ng	97
86) Indeno(1,2,3-cd)pyrene	17.07	276	38324	3.332	ng	96
88) Benzo(b)fluoranthene	15.11	252	119652m	8.212	ng	
89) Benzo(k)fluoranthene	15.13	252	41971m	3.000	ng	
90) Benzo(a)pyrene	15.49	252	82214	6.405	ng	96
92) Benzo(a,h,i)perylene	17.54	276	40055	3.723	ng	98

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

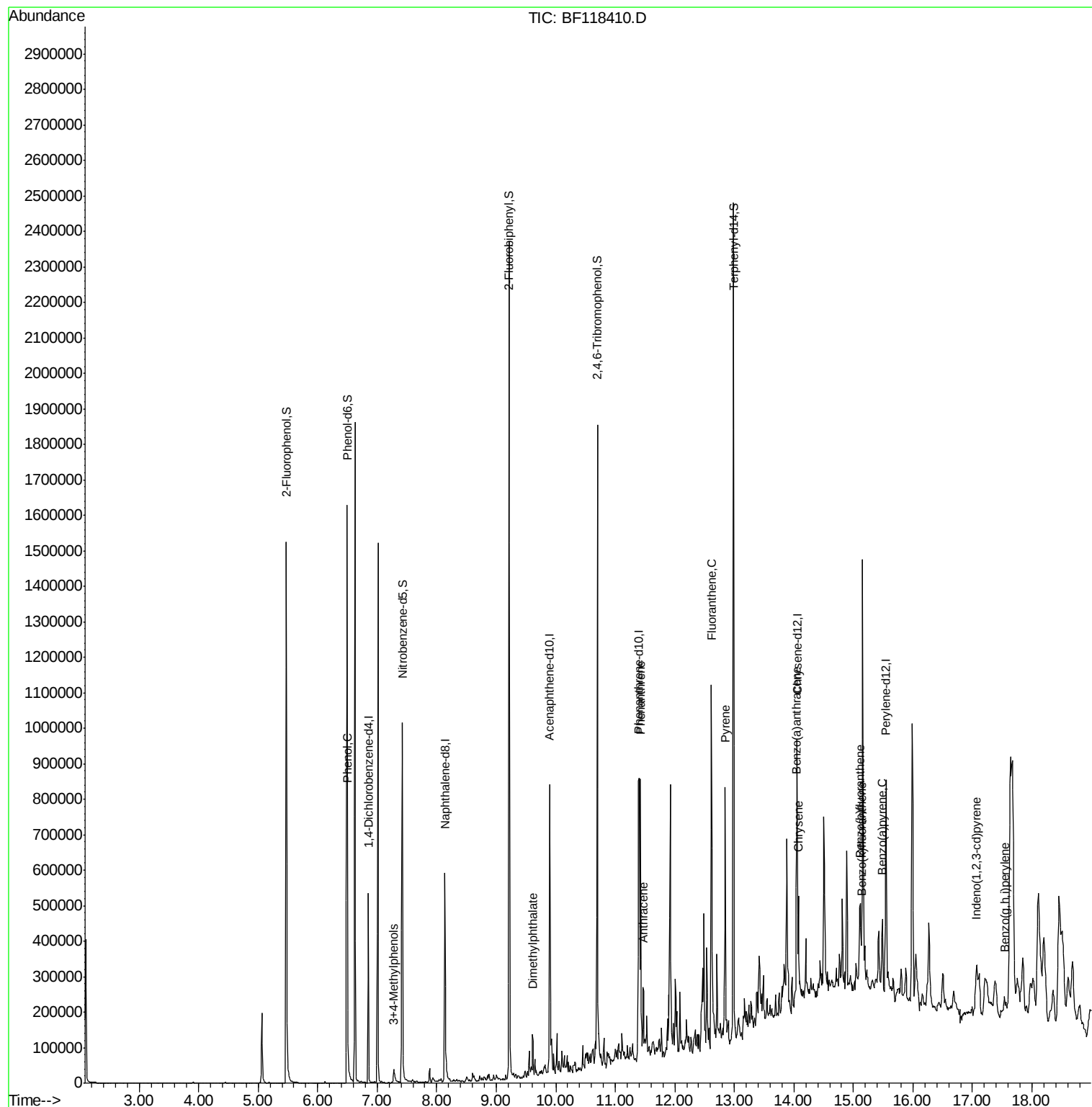
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118410.D
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ALS Vial : 13 Sample Multiplier: 1

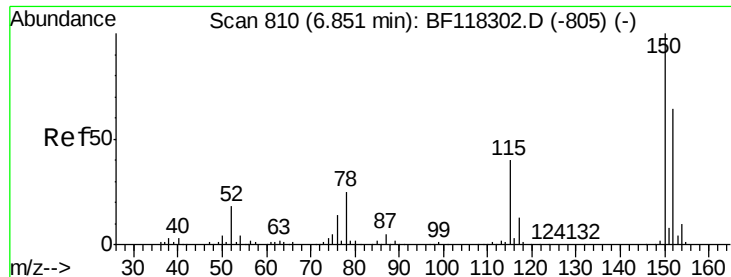
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
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#1

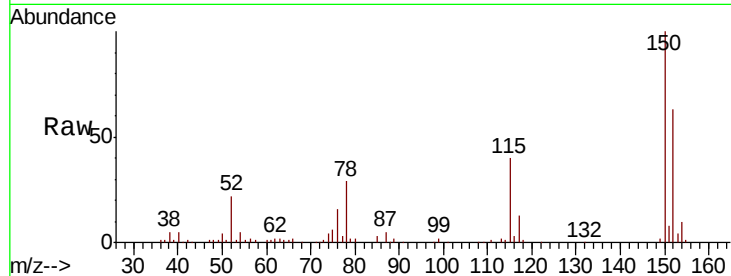
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. -0.00 min
Lab File: BF118410.D
Acq: 31 Dec 2019 17:30

Instrument :
BNA_F
ClientSampleId :
174-NC-TOPSOIL-001

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.7	125.4	188.2
115	63.2	50.2	75.4

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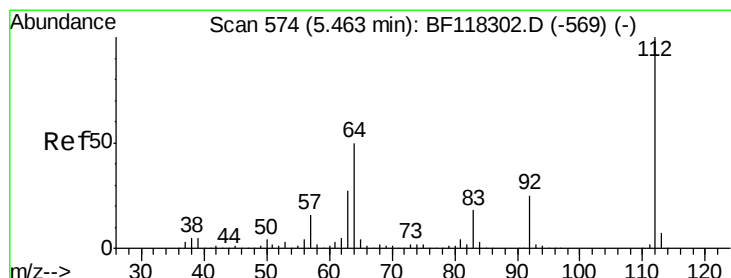
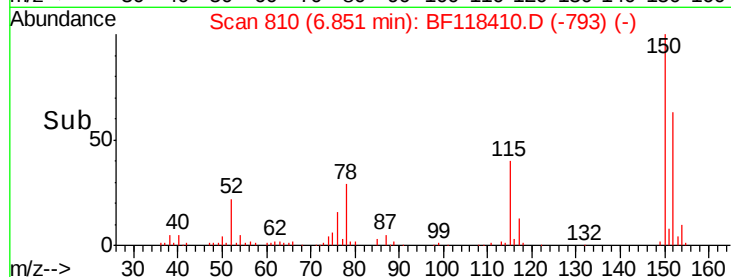
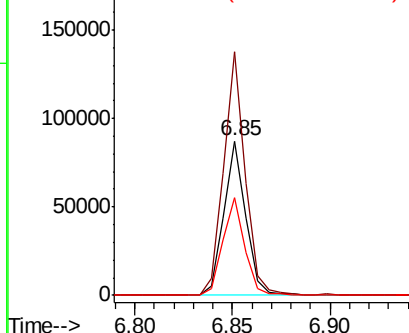


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

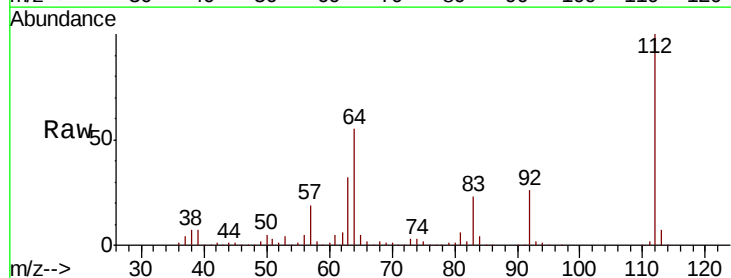
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 104.338 ng
RT: 5.47 min Scan# 576
Delta R.T. 0.01 min
Lab File: BF118410.D
Acq: 31 Dec 2019 17:30

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.7	39.7	59.5
63	31.8	21.7	32.5

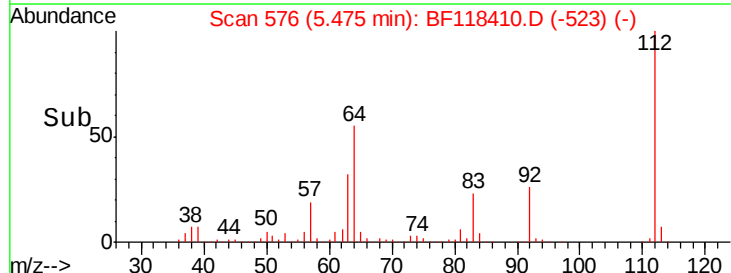
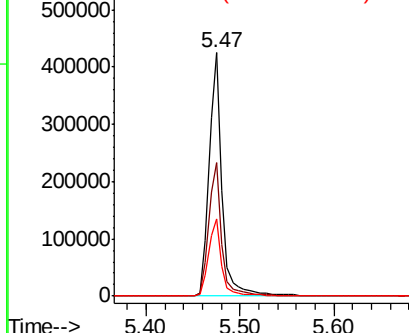


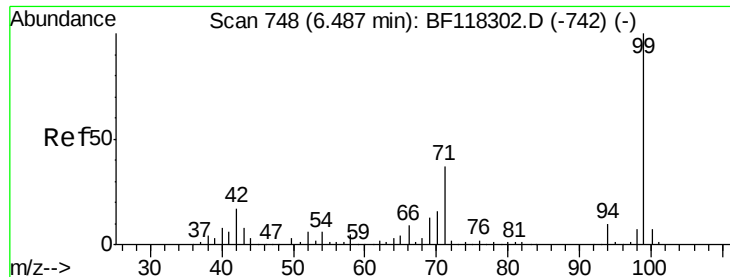
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 108.515 ng

RT: 6.49 min Scan# 749

Delta R.T. 0.01 min

Lab File: BF118410.D

Acq: 31 Dec 2019 17:30

Instrument :

BNA_F

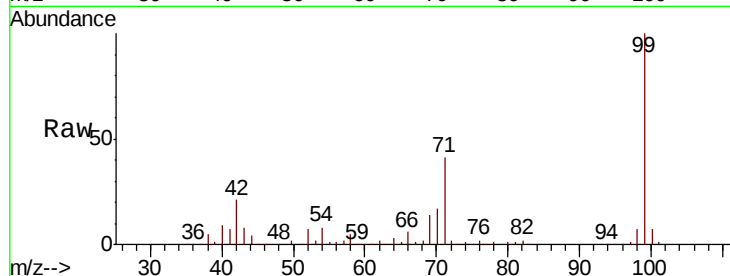
ClientSampleId :

174-NC-TOPSOIL-001

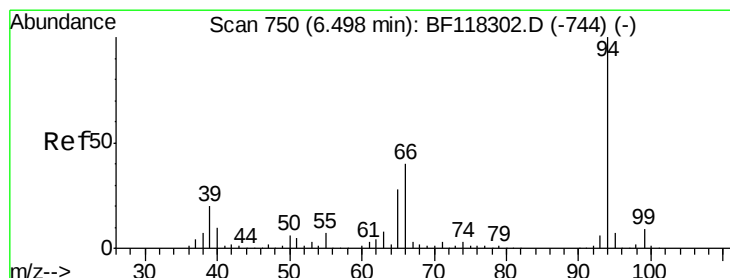
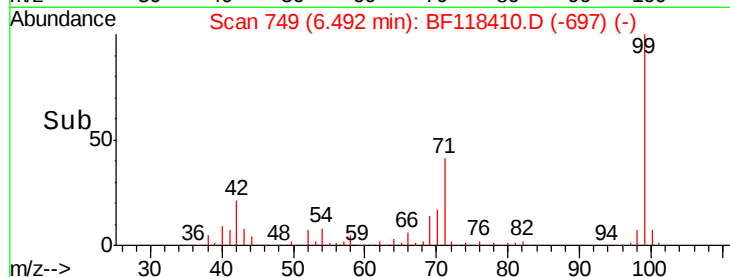
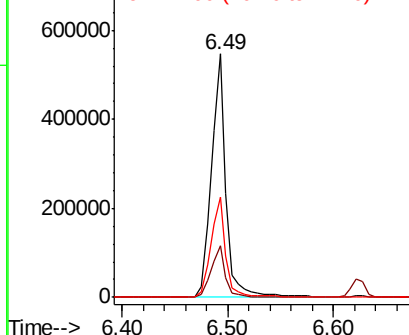
Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		535313		
42	21.0	13.5	20.3#		
71	41.2	29.4	44.2		

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Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 2.659 ng

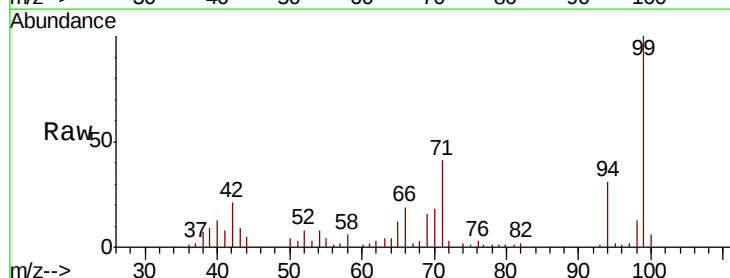
RT: 6.50 min Scan# 751

Delta R.T. 0.01 min

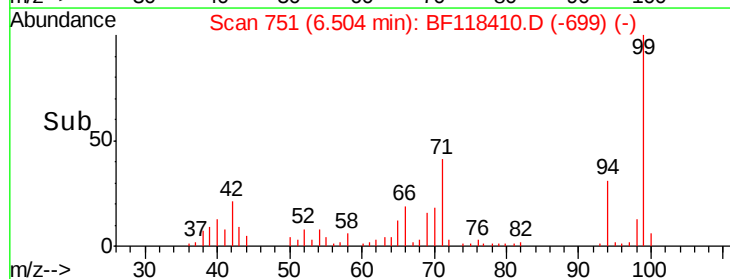
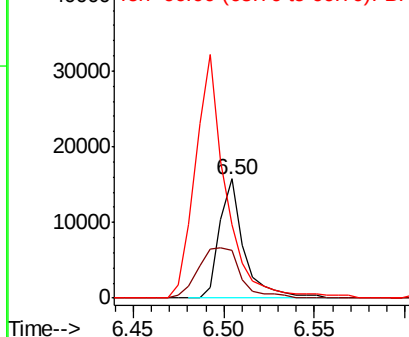
Lab File: BF118410.D

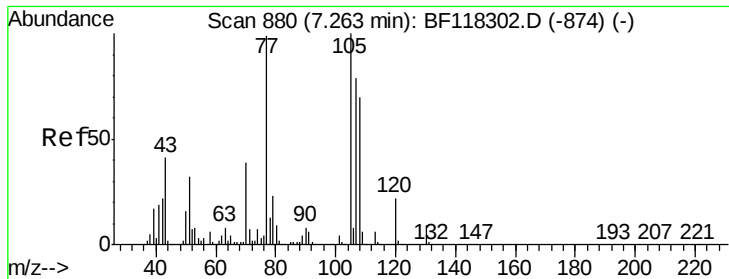
Acq: 31 Dec 2019 17:30

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
94	100		14741		
65	39.6	7.8	47.8		
66	61.7	20.4	60.4#		



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1





#20

3+4-Methylphenols

Concen: 4.904 ng

RT: 7.28 min Scan# 883

Delta R.T. 0.02 min

Lab File: BF118410.D

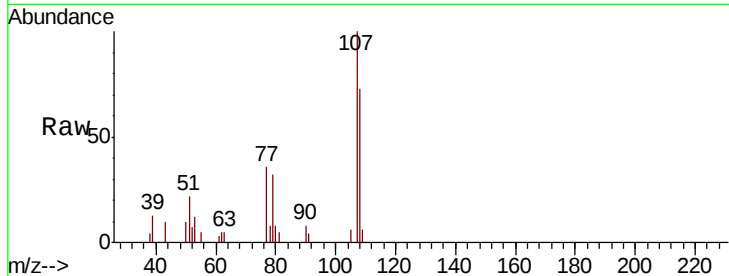
Acq: 31 Dec 2019 17:30

Instrument :

BNA_F

ClientSampleId :

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Tot Ion:107 Resp: 22672

Ion Ratio Lower Upper

107 100

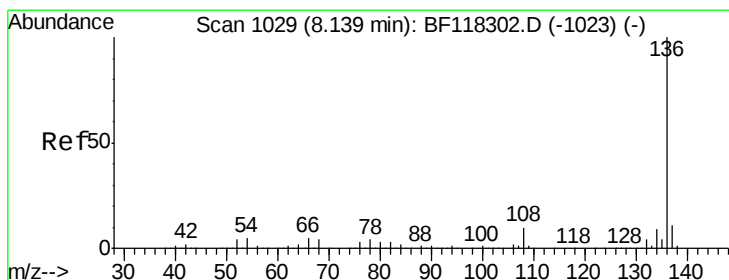
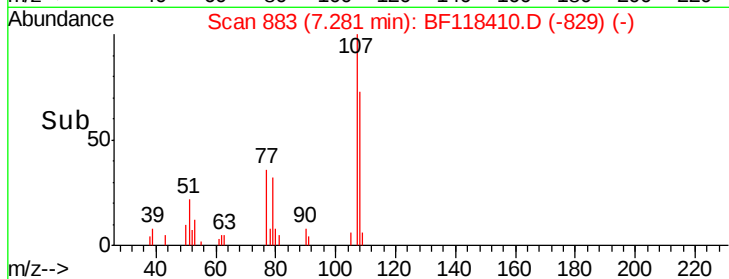
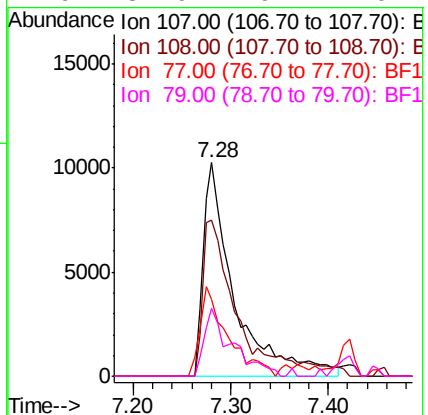
108 73.3 69.3 109.3

77 36.1 105.9 145.9#

79 31.9 9.2 49.2

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.14 min Scan# 1029

Delta R.T. -0.00 min

Lab File: BF118410.D

Acq: 31 Dec 2019 17:30

Tgt Ion:136 Resp: 270980

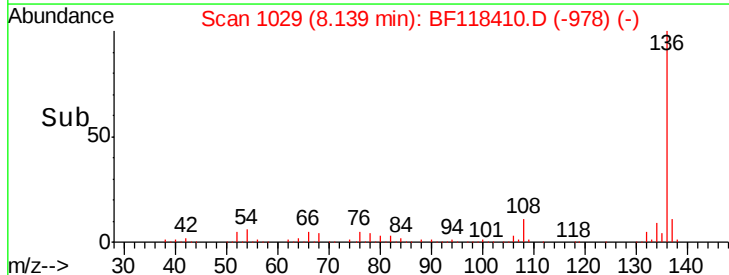
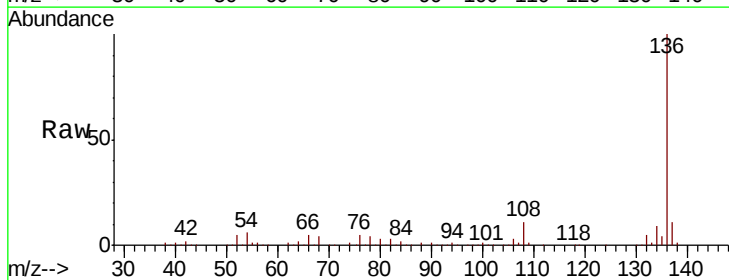
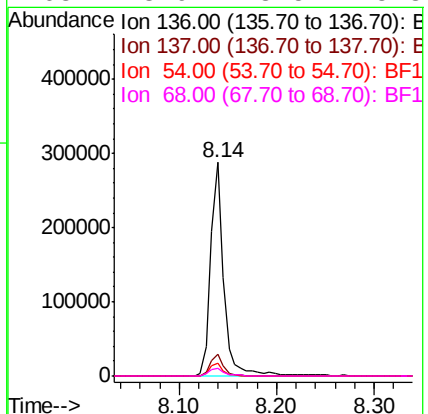
Ion Ratio Lower Upper

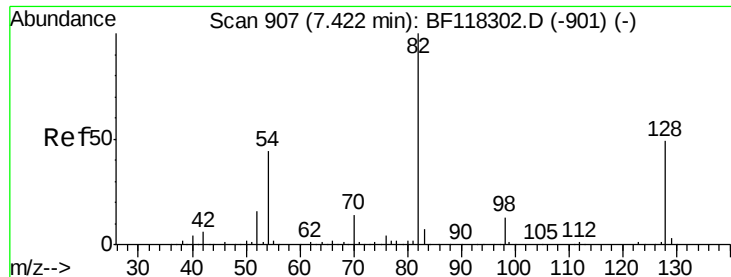
136 100

137 10.5 8.9 13.3

54 5.9 4.2 6.4

68 3.9 3.5 5.3





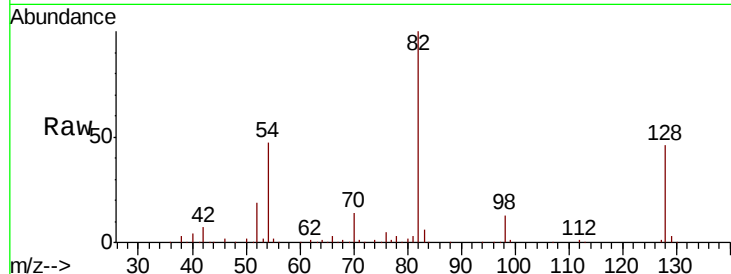
#23
Nitrobenzene-d5
Concen: 74.263 ng
RT: 7.42 min Scan# 907
Delta R.T. -0.00 min
Lab File: BF118410.D
Acq: 31 Dec 2019 17:30

Instrument :
BNA_F
ClientSampleId :
174-NC-TOPSOIL-001

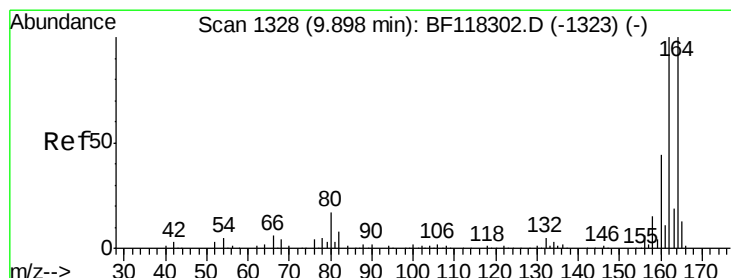
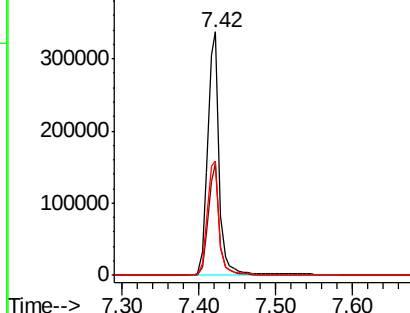
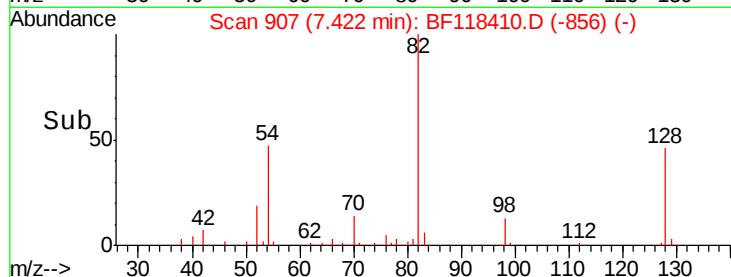
Tot Ion	Ratio	Lower	Upper
82	100		
128	45.7	39.6	59.4
54	46.8	34.9	52.3

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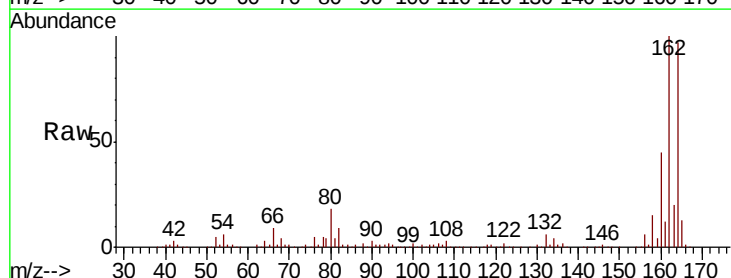


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

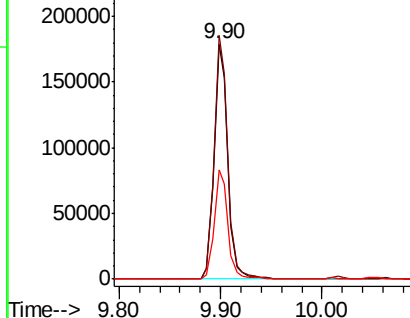
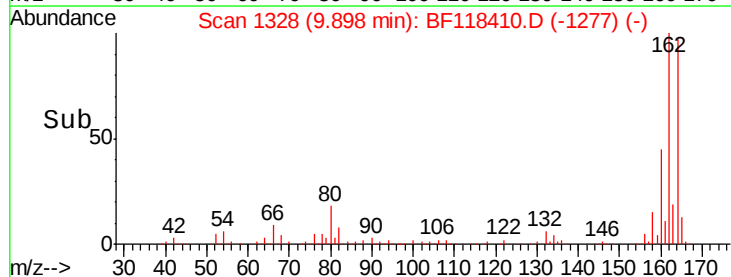


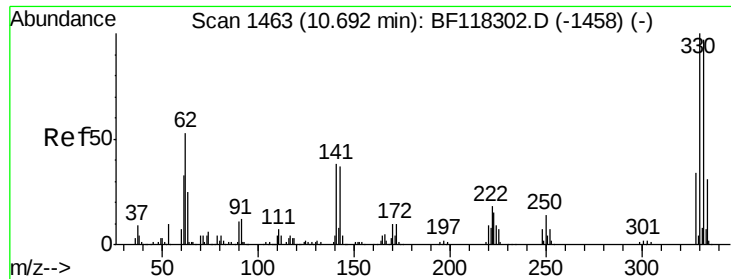
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.90 min Scan# 1328
Delta R.T. -0.00 min
Lab File: BF118410.D
Acq: 31 Dec 2019 17:30

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.6	80.0	120.0
160	46.3	34.8	52.2



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 102.071 ng

RT: 10.70 min Scan# 1464

Delta R.T. 0.01 min

Lab File: BF118410.D

Acq: 31 Dec 2019 17:30

Instrument :

BNA_F

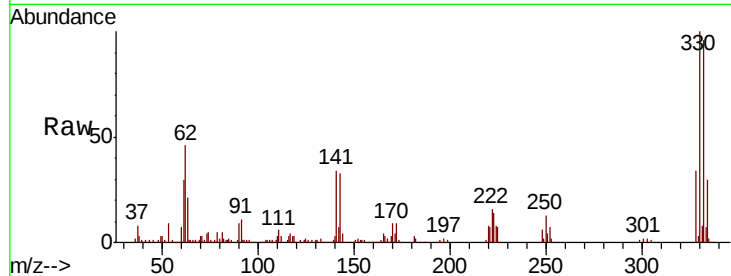
ClientSampleId :

174-NC-TOPSOIL-001

Tot Ion:	330	Resp:	211750
Ion Ratio	Lower	Upper	
330	100		
332	96.5	76.6	114.8
141	36.1	26.0	39.0

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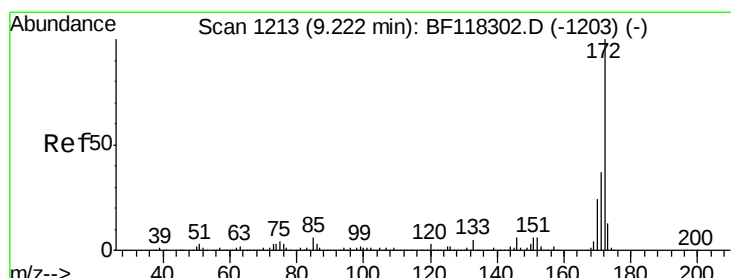
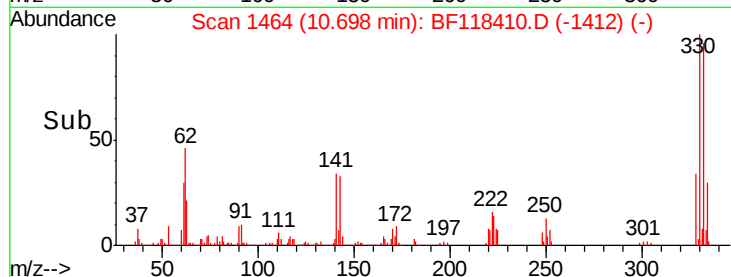
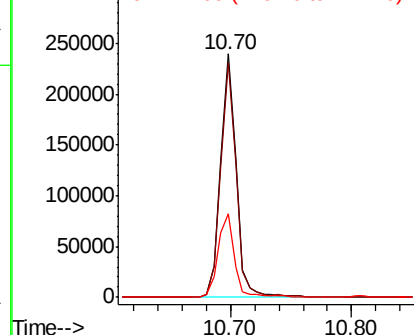


Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 61.475 ng

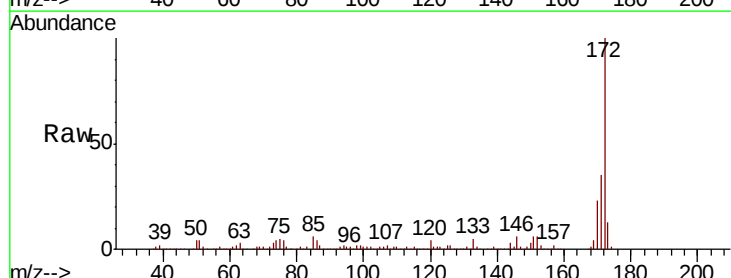
RT: 9.22 min Scan# 1212

Delta R.T. -0.01 min

Lab File: BF118410.D

Acq: 31 Dec 2019 17:30

Tgt Ion:	172	Resp:	676534
Ion Ratio	Lower	Upper	
172	100		
171	35.1	29.3	43.9
170	23.4	19.2	28.8

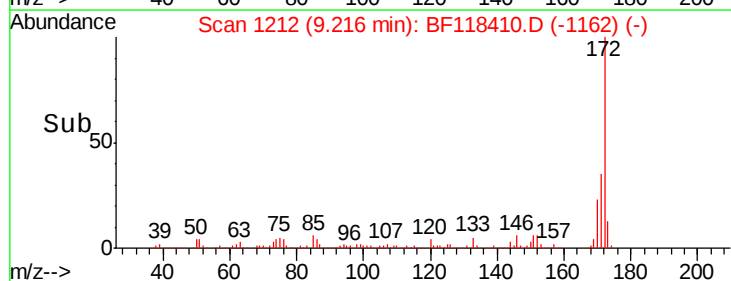
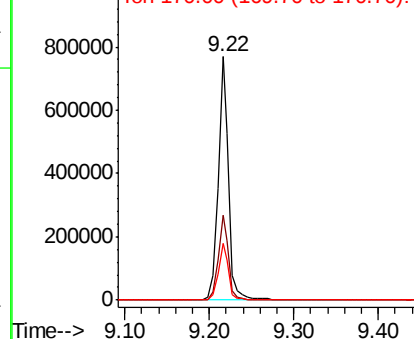


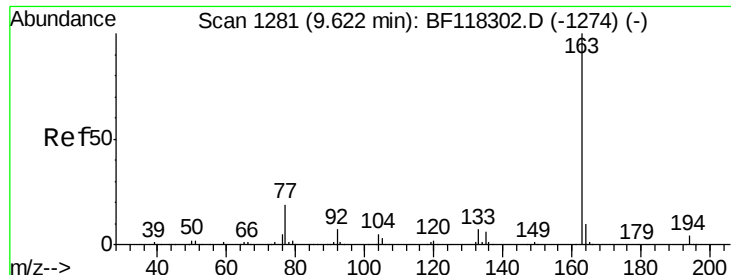
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





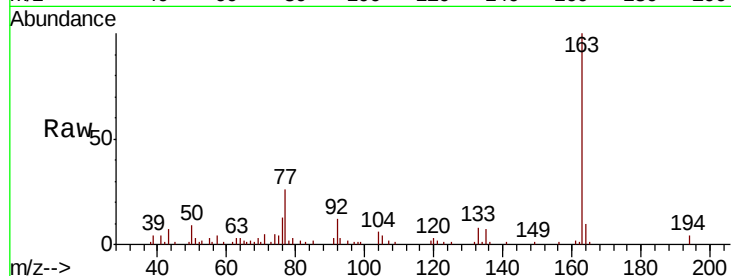
#50
Dimethylphthalate
Concen: 3.700 ng
RT: 9.61 min Scan# 1279
Delta R.T. -0.01 min
Lab File: BF118410.D
Acq: 31 Dec 2019 17:30

Instrument :
BNA_F
ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.2	4.8
164	9.8	7.9	11.9

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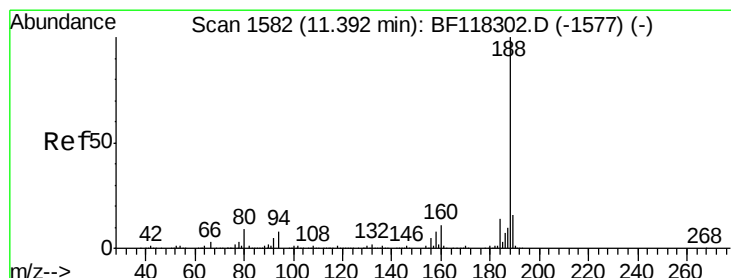
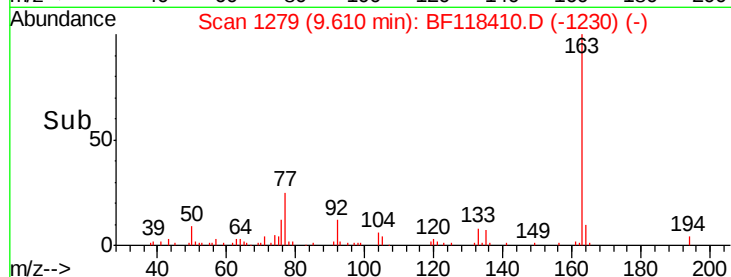
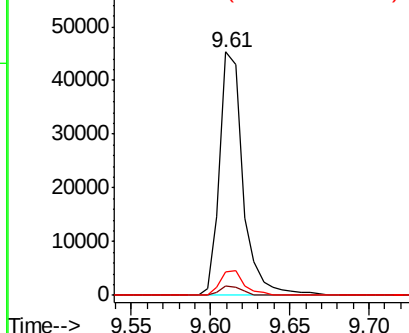


Abundance

Ion 163.00 (162.70 to 163.70): E

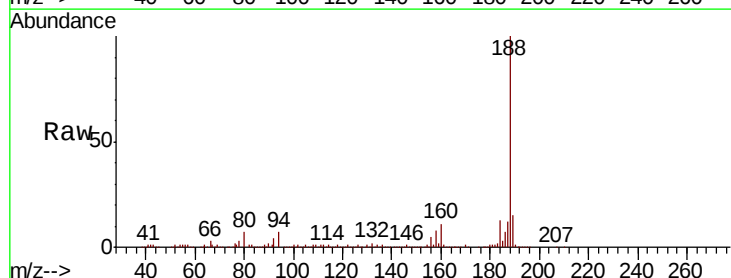
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.40 min Scan# 1583
Delta R.T. 0.01 min
Lab File: BF118410.D
Acq: 31 Dec 2019 17:30

Tgt Ion	Ratio	Lower	Upper
188	100		
94	7.2	6.7	10.1
80	7.5	7.2	10.8

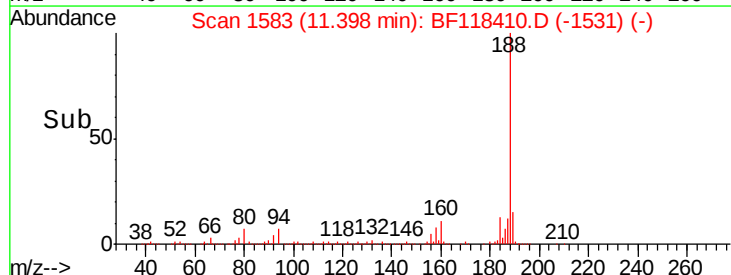
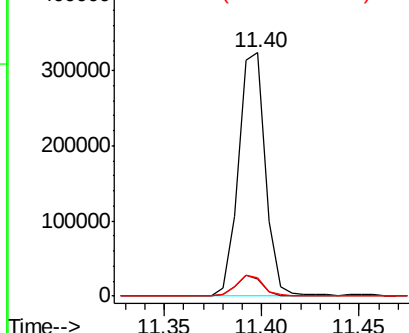


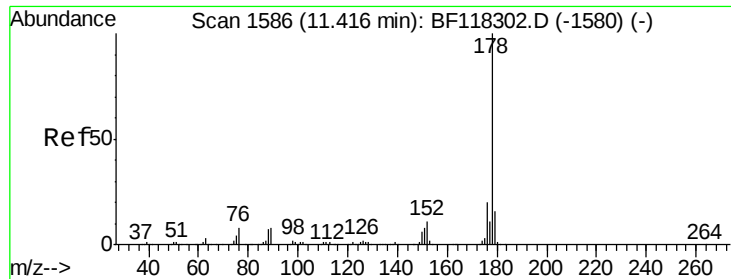
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





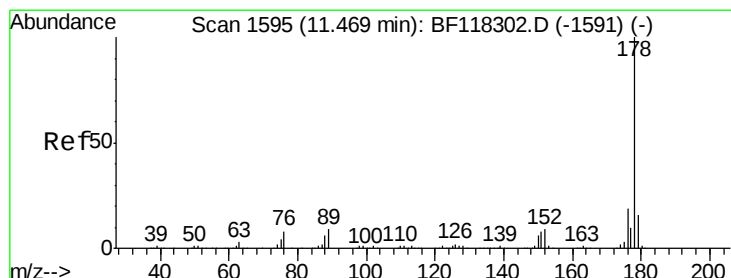
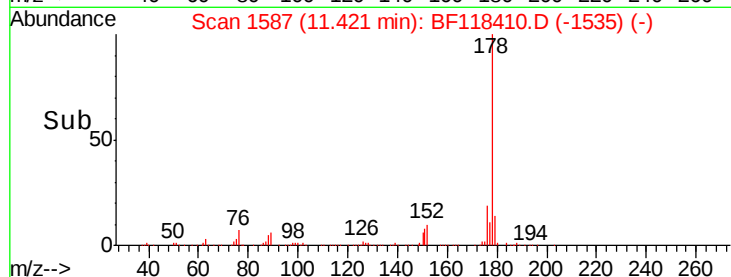
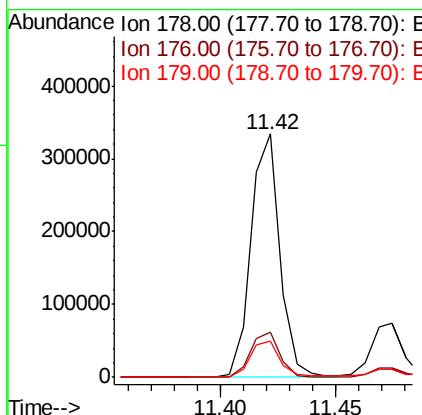
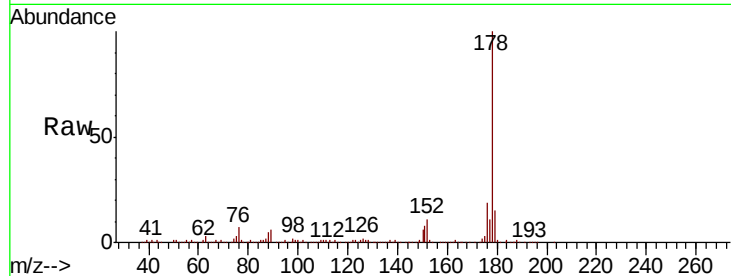
#71
Phenanthrene
Concen: 17.253 ng
RT: 11.42 min Scan# 1587
Delta R.T. 0.01 min
Lab File: BF118410.D
Acq: 31 Dec 2019 17:30

Instrument :
BNA_F
ClientSampleId :
174-NC-TOPSOIL-001

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.6	23.4
179	14.6	12.6	19.0

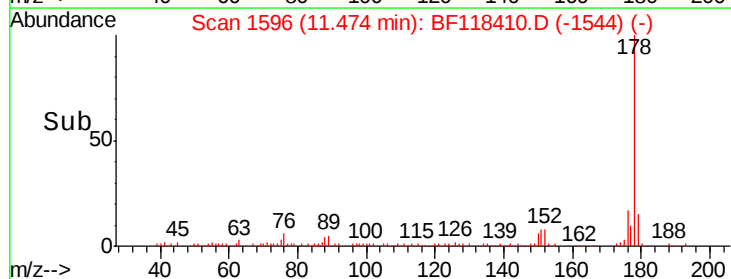
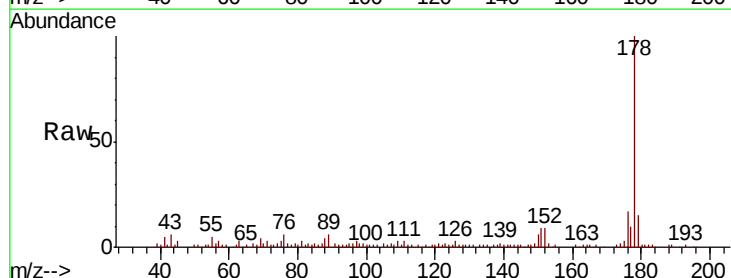
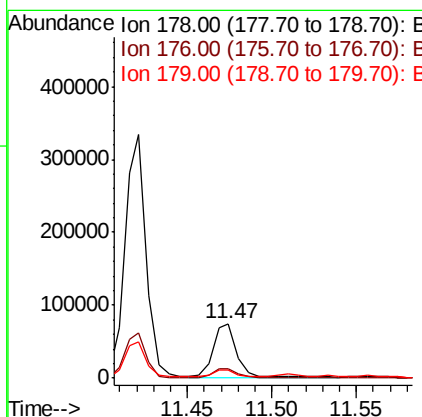
Manual Integrations
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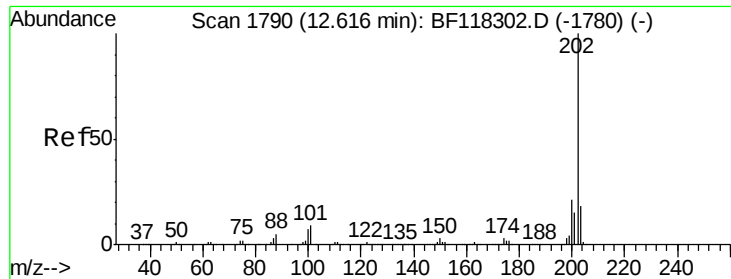
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#72
Anthracene
Concen: 4.332 ng
RT: 11.47 min Scan# 1596
Delta R.T. 0.01 min
Lab File: BF118410.D
Acq: 31 Dec 2019 17:30

Tgt Ion	Ratio	Lower	Upper
178	100		
176	16.7	15.2	22.8
179	14.7	12.9	19.3





#75

Fluoranthene

Concen: 18.165 ng

RT: 12.62 min Scan# 1790

Delta R.T. -0.00 min

Lab File: BF118410.D

Acq: 31 Dec 2019 17:30

Instrument :

BNA_F

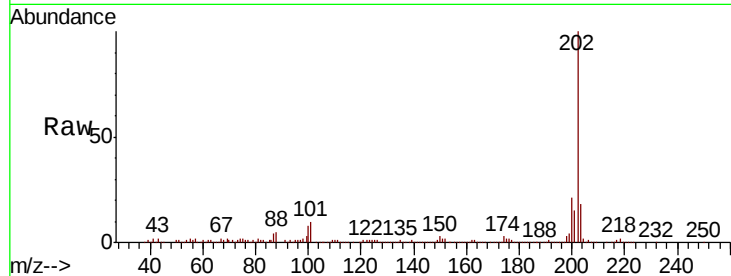
ClientSampleId :

174-NC-TOPSOIL-001

Tot Ion	Ratio	Resp	Lower	Upper
202	100	310123		
101	10.5	0.0	29.5	
203	17.6	0.0	37.6	

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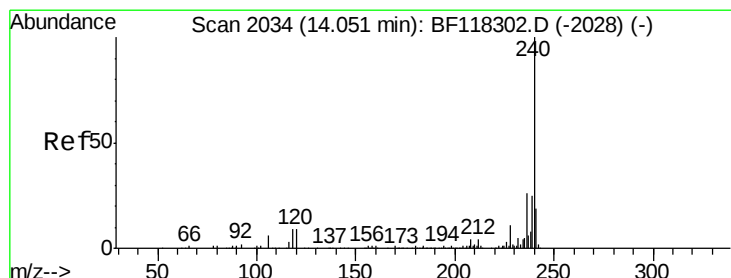
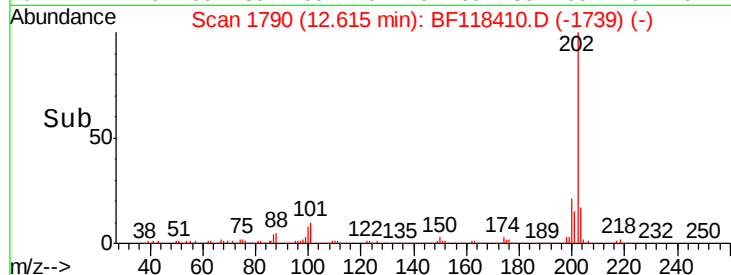
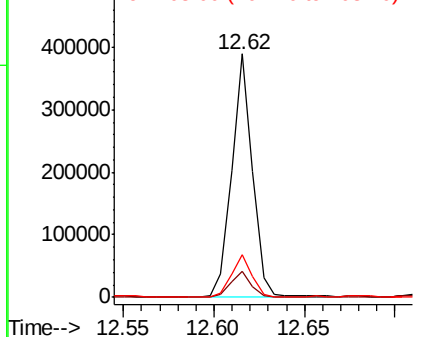


Abundance

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



#76

Chrysene-d12

Concen: 20.000 ng

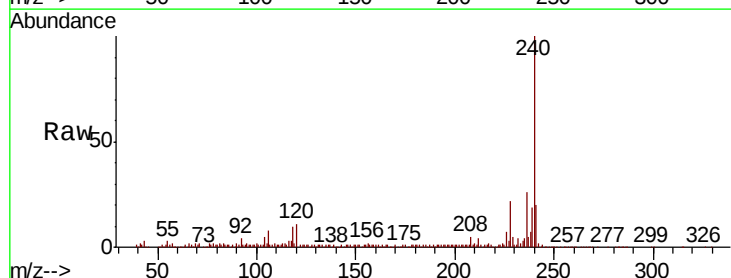
RT: 14.05 min Scan# 2034

Delta R.T. -0.00 min

Lab File: BF118410.D

Acq: 31 Dec 2019 17:30

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	201401		
120	10.5	7.1	10.7	
236	25.9	21.0	31.6	

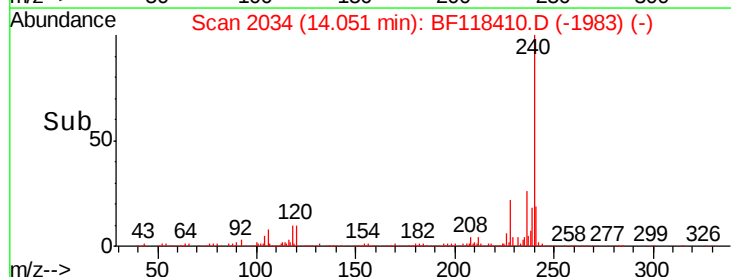
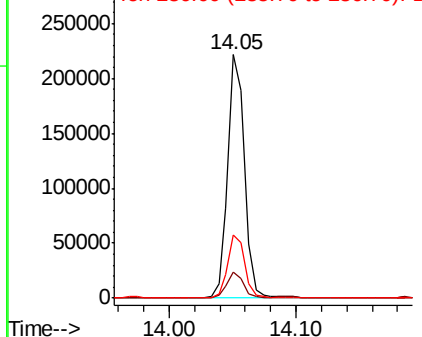


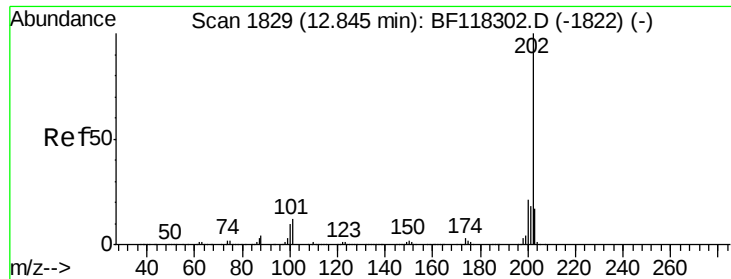
Abundance

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





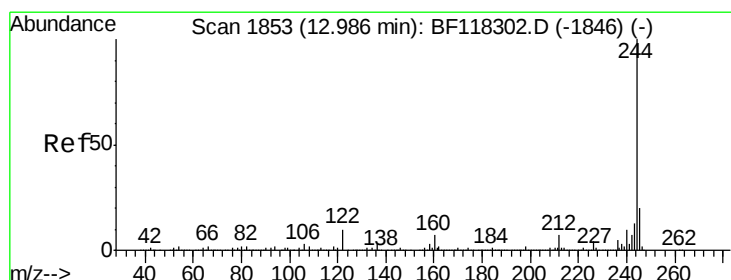
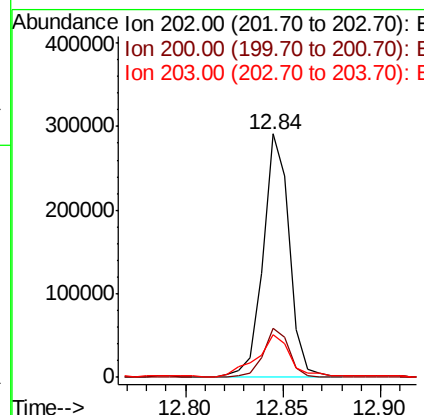
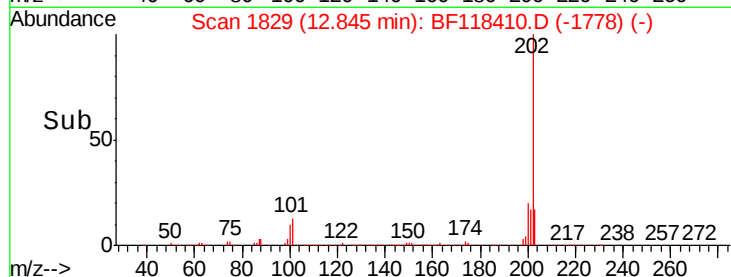
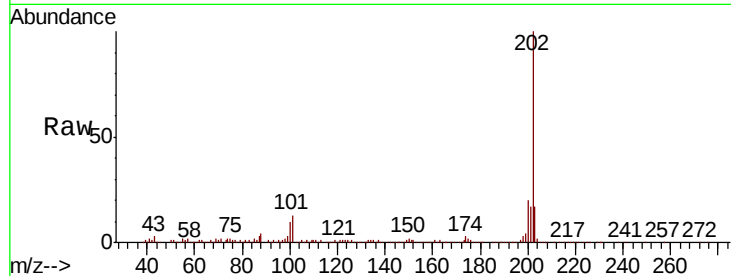
#78
Pvrene
Concen: 16.287 ng
RT: 12.84 min Scan# 1829
Delta R.T. -0.00 min
Lab File: BF118410.D
Acq: 31 Dec 2019 17:30

Instrument :
BNA_F
ClientSampleId :
174-NC-TOPSOIL-001

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.3	16.8	25.2
203	17.4	13.9	20.9

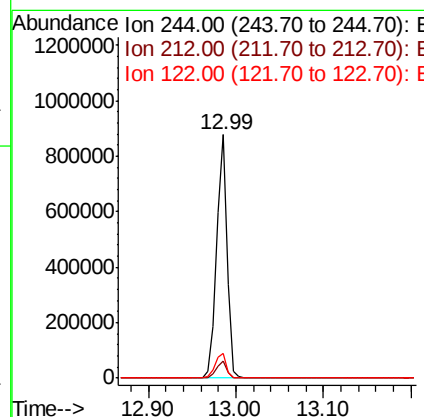
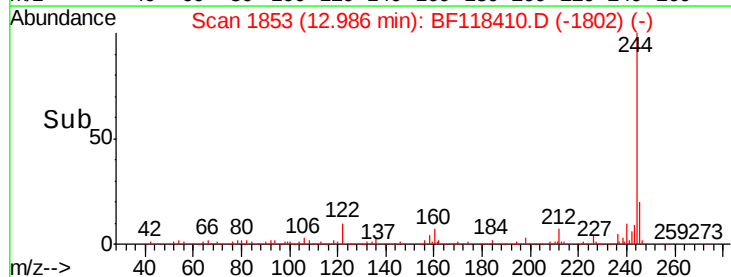
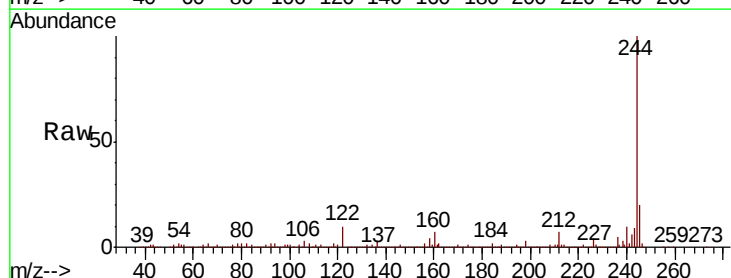
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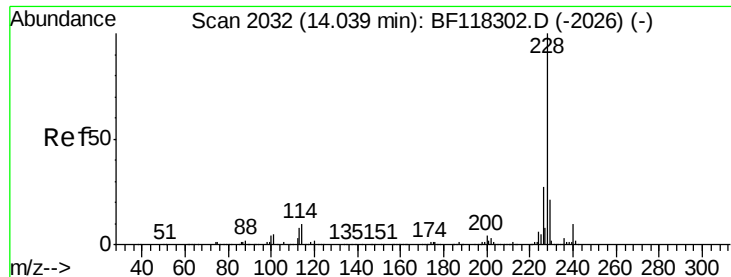
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#79
Terphenyl-d14
Concen: 60.190 ng
RT: 12.99 min Scan# 1853
Delta R.T. -0.00 min
Lab File: BF118410.D
Acq: 31 Dec 2019 17:30

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.2
122	10.4	7.8	11.8





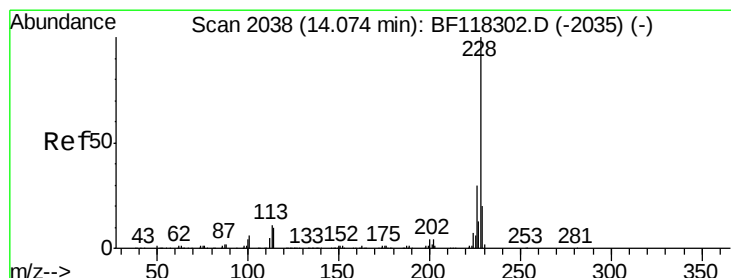
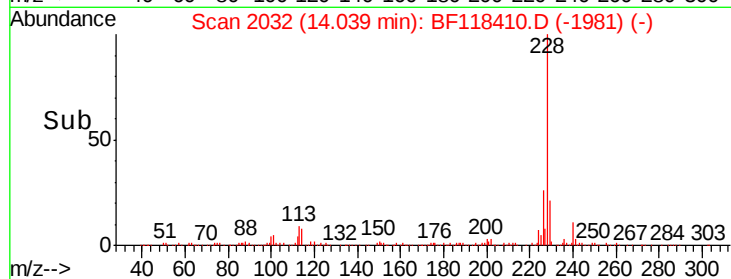
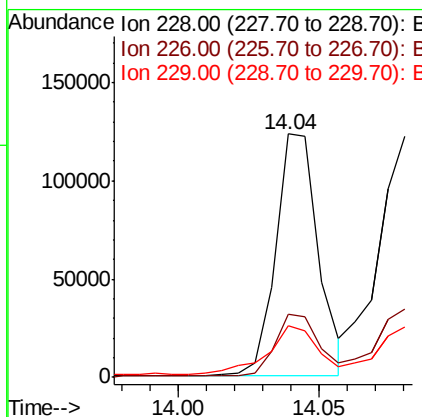
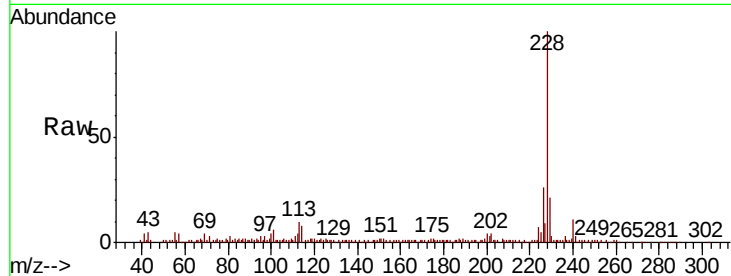
#81
Benzo(a)anthracene
Concen: 9.168 ng
RT: 14.04 min Scan# 2032
Delta R.T. -0.00 min
Lab File: BF118410.D
Acq: 31 Dec 2019 17:30

Instrument :
BNA_F
ClientSampleId :
174-NC-TOPSOIL-001

Tot Ion:228	Resp:	129251
Ion Ratio	Lower	Upper
228 100		
226 26.1	22.0	33.0
229 21.3	16.6	24.8

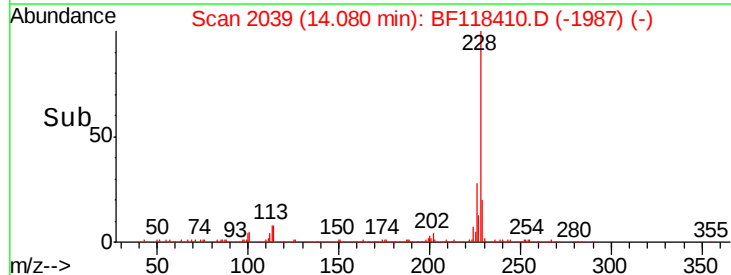
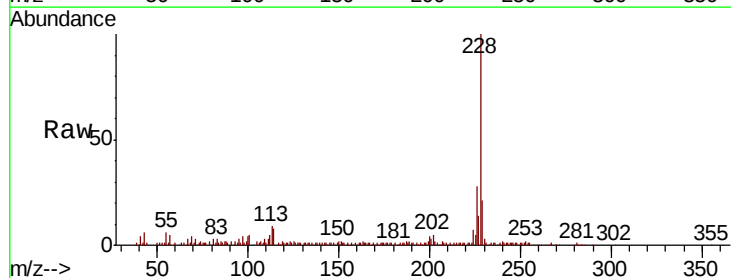
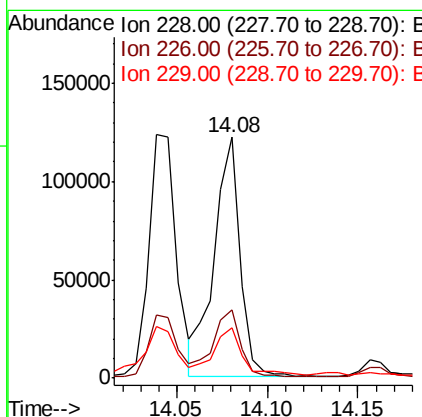
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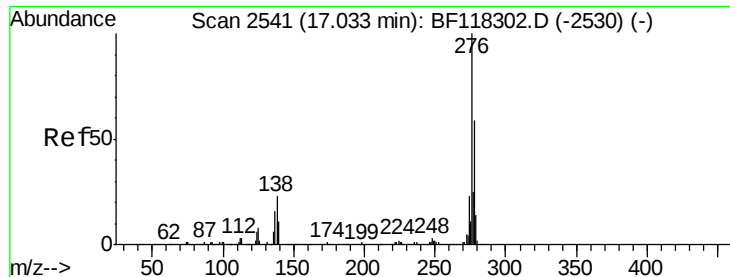
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#83
Chrysene
Concen: 9.024 ng
RT: 14.08 min Scan# 2039
Delta R.T. 0.01 min
Lab File: BF118410.D
Acq: 31 Dec 2019 17:30

Tgt Ion:228	Resp:	121813
Ion Ratio	Lower	Upper
228 100		
226 28.3	23.9	35.9
229 21.0	16.1	24.1





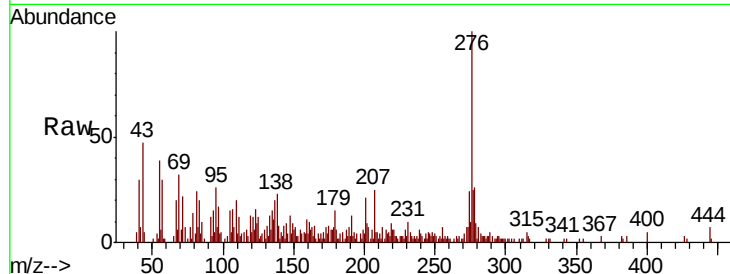
#86
Indeno(1,2,3-cd)pyrene
Concen: 3.332 ng
RT: 17.07 min Scan# 2547
Delta R.T. 0.04 min
Lab File: BF118410.D
Acq: 31 Dec 2019 17:30

Instrument :
BNA_F
ClientSampleId :
174-NC-TOPSOIL-001

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.3	19.5	29.3
277	23.9	20.6	30.8

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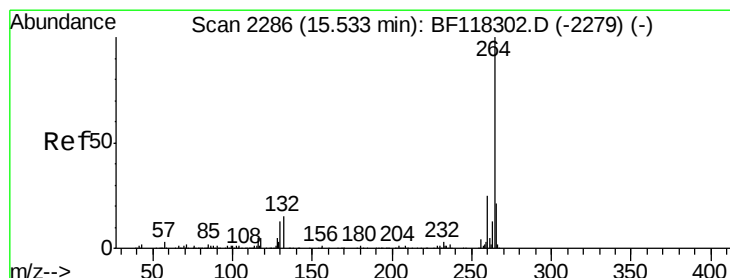
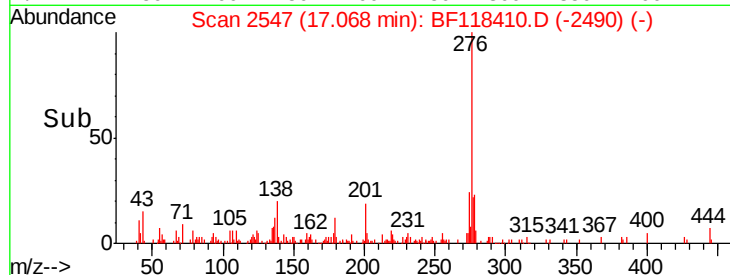
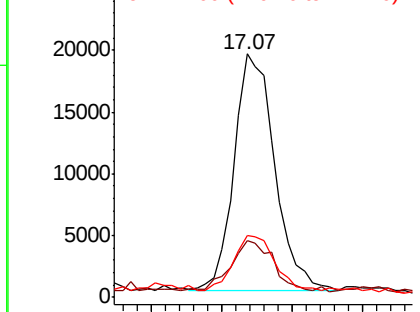


Abundance

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



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.55 min Scan# 2289
Delta R.T. 0.02 min
Lab File: BF118410.D
Acq: 31 Dec 2019 17:30

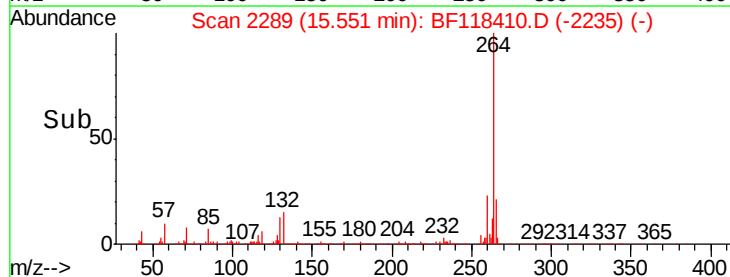
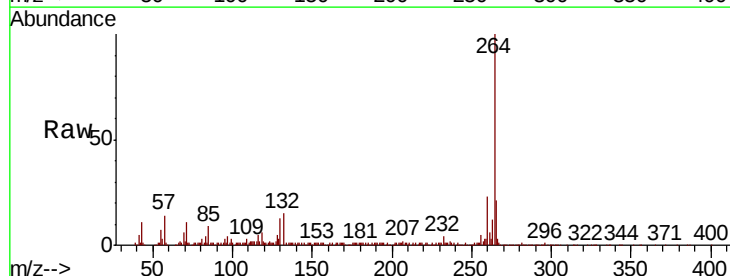
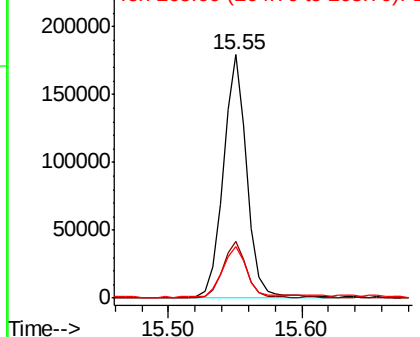
Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.8	29.6
265	21.3	17.0	25.4

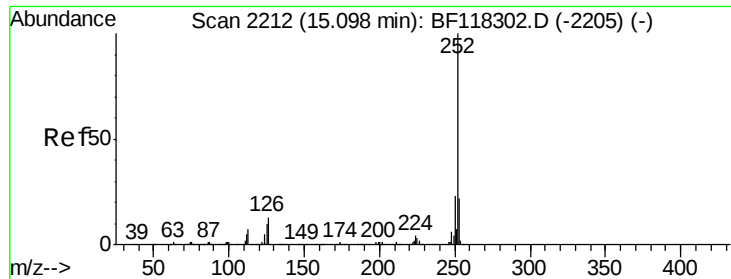
Abundance

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





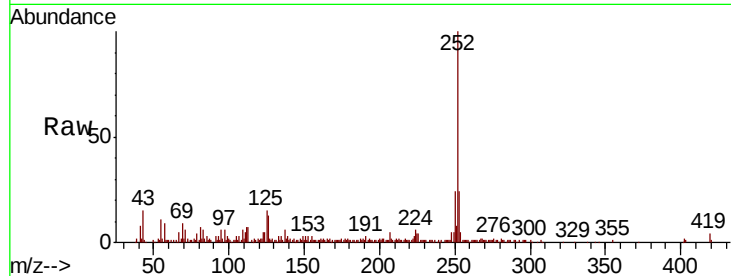
#88
Benzo(b)fluoranthene
Concen: 8.212 ng m
RT: 15.11 min Scan# 2214
Delta R.T. 0.01 min
Lab File: BF118410.D
Acq: 31 Dec 2019 17:30

Instrument :
BNA_F
ClientSampleId :
174-NC-TOPSOIL-001

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.5	26.3
125	14.9	7.7	11.5

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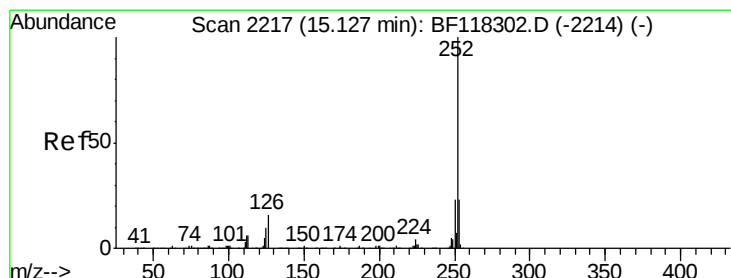
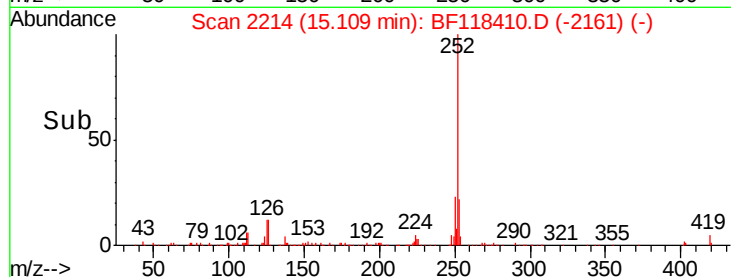
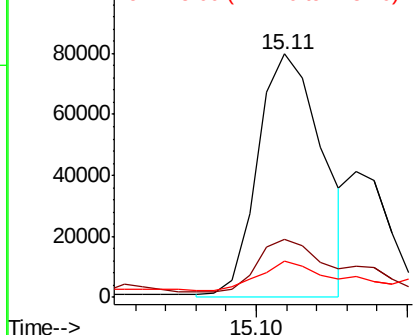


Abundance

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



#89
Benzo(k)fluoranthene
Concen: 3.000 ng m
RT: 15.13 min Scan# 2218
Delta R.T. 0.01 min
Lab File: BF118410.D
Acq: 31 Dec 2019 17:30

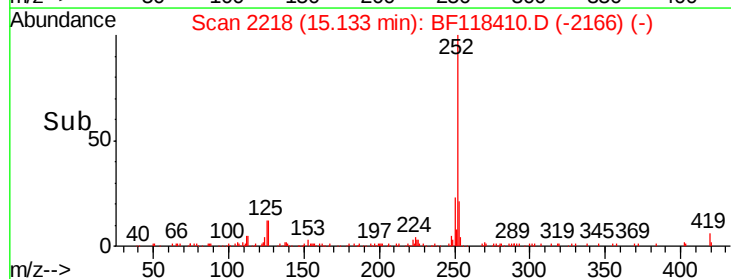
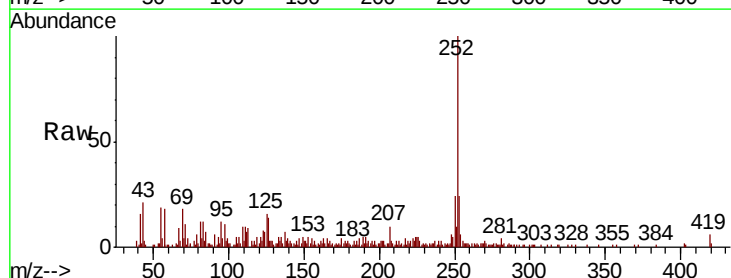
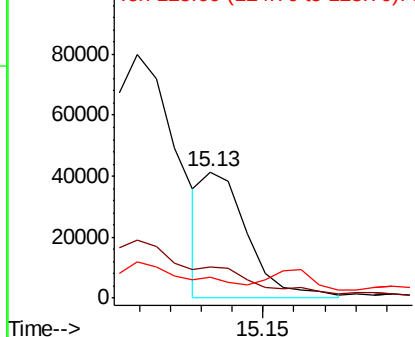
Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.3	18.0	27.0
125	16.3	8.0	12.0

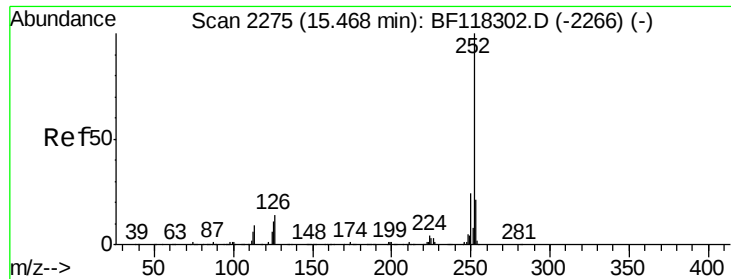
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





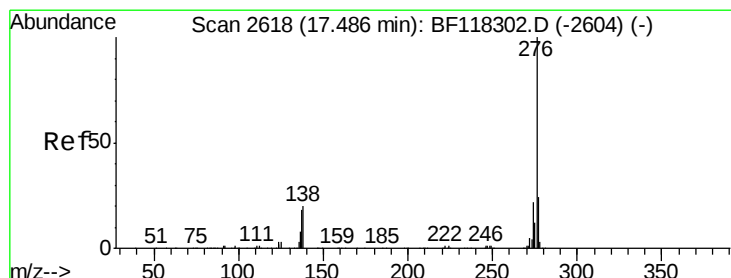
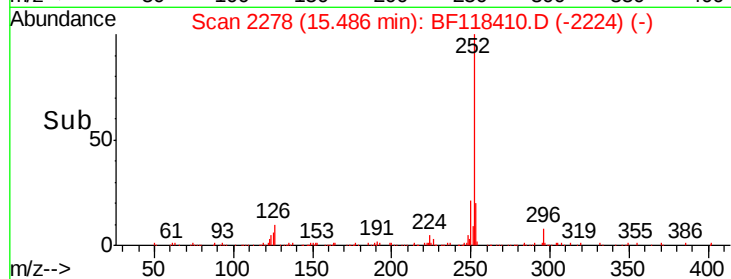
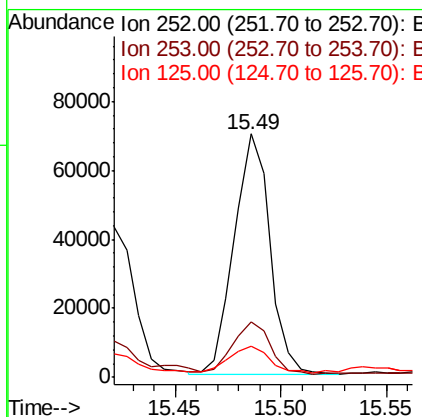
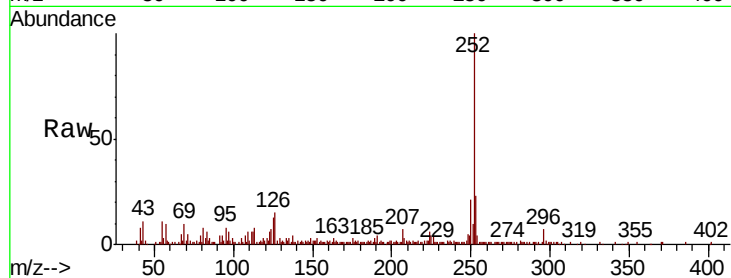
#90
Benzo(a)pyrene
Concen: 6.405 ng
RT: 15.49 min Scan# 2278
Delta R.T. 0.02 min
Lab File: BF118410.D
Acq: 31 Dec 2019 17:30

Instrument :
BNA_F
ClientSampleId :
174-NC-TOPSOIL-001

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.0	25.6
125	12.6	9.0	13.4

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#92
Benzo(g,h,i)perylene
Concen: 3.723 ng
RT: 17.54 min Scan# 2627
Delta R.T. 0.05 min
Lab File: BF118410.D
Acq: 31 Dec 2019 17:30

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.2	19.1	28.7
138	19.5	16.1	24.1

