

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081619\
 Data File : BF116336.D
 Acq On : 16 Aug 2019 23:46
 Operator : HP/JU
 Sample : K4372-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-COMPOSITE

Manual Integrations
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mohammad
 8/20/2019 8:37:05 AM

Quant Time: Aug 17 05:23:13 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 07 11:13:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	160556	20.00	ng	-0.03
21) Naphthalene-d8	8.10	136	613830	20.00	ng	-0.03
39) Acenaphthene-d10	9.85	164	308898	20.00	ng	-0.04
64) Phenanthrene-d10	11.34	188	480518	20.00	ng	-0.03
76) Chrysene-d12	13.98	240	305389	20.00	ng	-0.03
87) Perylene-d12	15.44	264	332708	20.00	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	886043	92.38	ng	-0.02
7) Phenol-d6	6.46	99	1137020	93.96	ng	-0.03
23) Nitrobenzene-d5	7.38	82	722417	67.93	ng	-0.04
42) 2,4,6-Tribromophenol	10.64	330	253530	84.66	ng	-0.04
45) 2-Fluorobiphenyl	9.17	172	929536	56.36	ng	-0.04
79) Terphenyl-d14	12.92	244	690660	47.66	ng	-0.04
Target Compounds						
38) 1-Methylnaphthalene	8.91	142	49288	2.739	ng	Qvalue # 99
50) Dimethylphthalate	9.56	163	267569	12.722	ng	100
71) Phenanthrene	11.36	178	177322	7.218	ng	98
75) Fluoranthene	12.55	202	202586	7.877	ng	98
78) Pyrene	12.78	202	235698	10.239	ng	99
81) Benzo(a)anthracene	13.97	228	89165	4.568	ng	97
83) Chrysene	14.00	228	84102	4.438	ng	97
84) Bis(2-ethylhexyl)phthalate	13.94	149	64542	5.100	ng	100
86) Indeno(1,2,3-cd)pyrene	16.92	276	44808	2.815	ng	93
88) Benzo(b)fluoranthene	15.02	252	88863m	4.619	ng	
90) Benzo(a)pyrene	15.39	252	70326	4.089	ng	# 94
92) Benzo(a,h,i)perylene	17.36	276	48349	3.307	ng	# 90

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

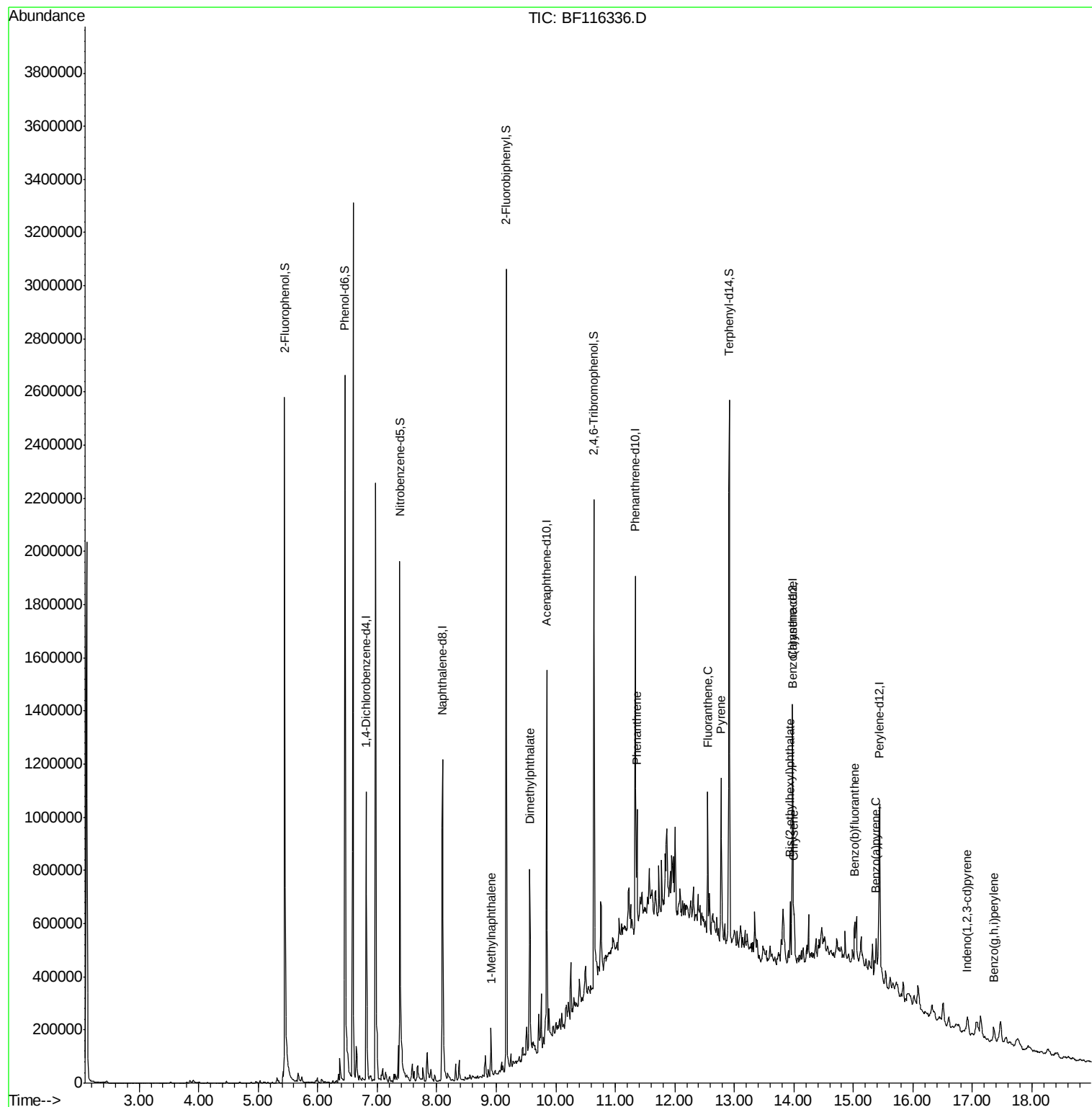
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081619\
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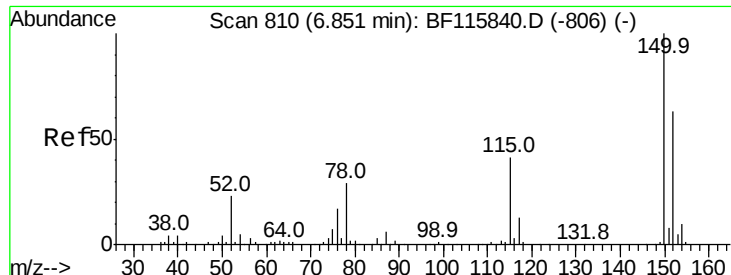
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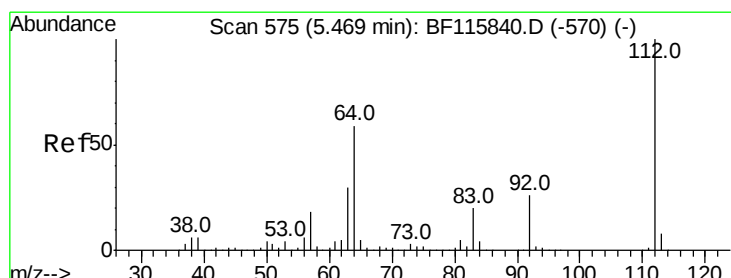
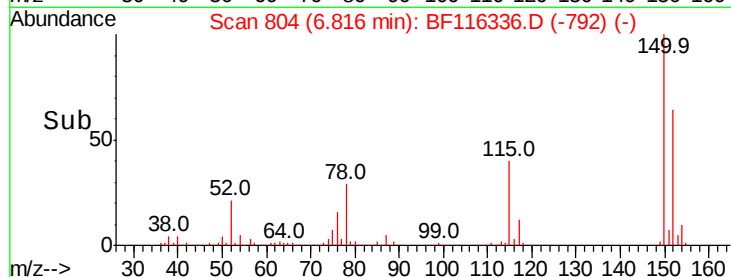
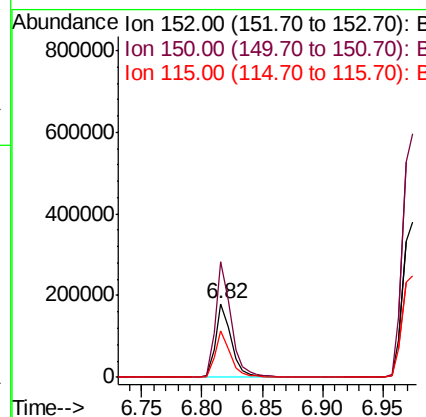
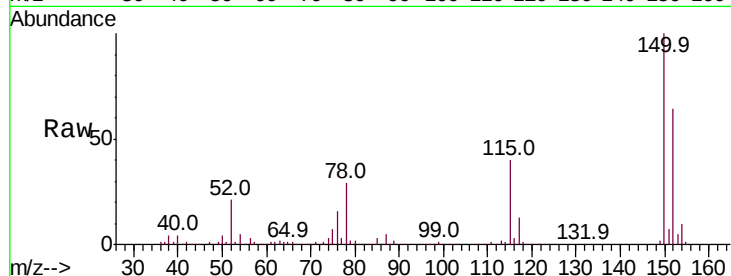
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.82 min Scan# 804
 Delta R.T. -0.03 min
 Lab File: BF116336.D
 Acq: 16 Aug 2019 23:46

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-COMPOSITE

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.3	126.2	189.2
115	62.1	49.9	74.9

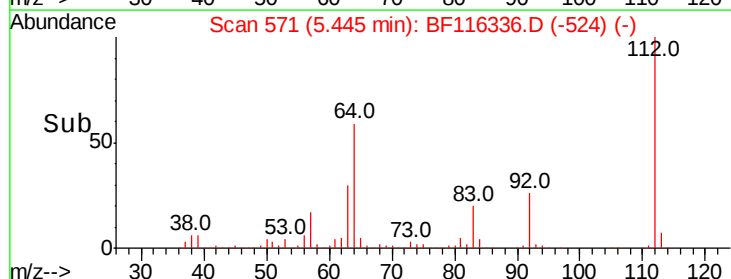
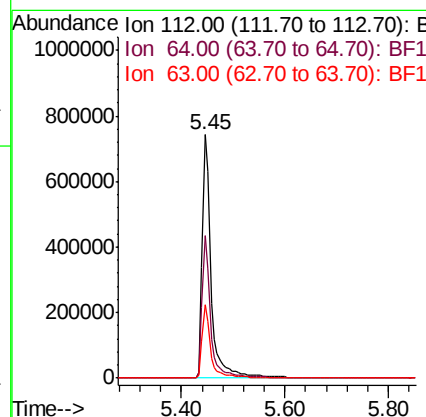
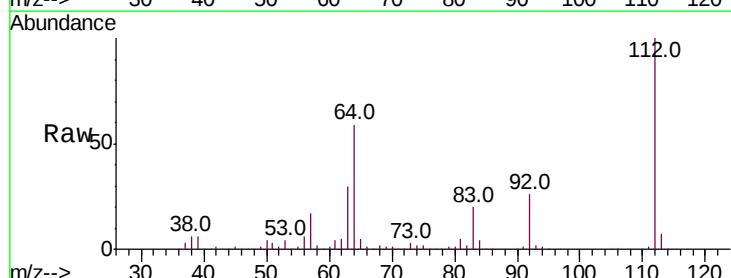
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#5
 2-Fluorophenol
 Concen: 92.385 ng
 RT: 5.45 min Scan# 571
 Delta R.T. -0.02 min
 Lab File: BF116336.D
 Acq: 16 Aug 2019 23:46

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.7	45.4	68.2
63	30.2	23.7	35.5





#7

Phenol-d6

Concen: 93.965 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.03 min

Lab File: BF116336.D

Acq: 16 Aug 2019 23:46

Instrument :

BNA_F

ClientSampleId :

SOIL-COMPOSITE

Tot Ion: 99 Resp: 1137020

Ion Ratio Lower Upper

99 100

42 17.1 13.8 20.8

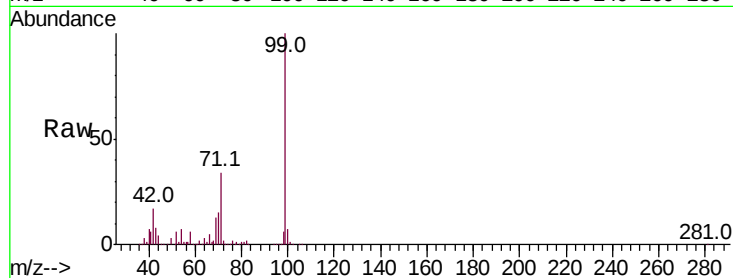
71 33.6 27.3 40.9

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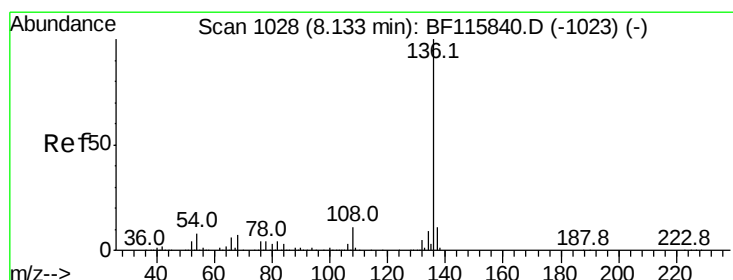
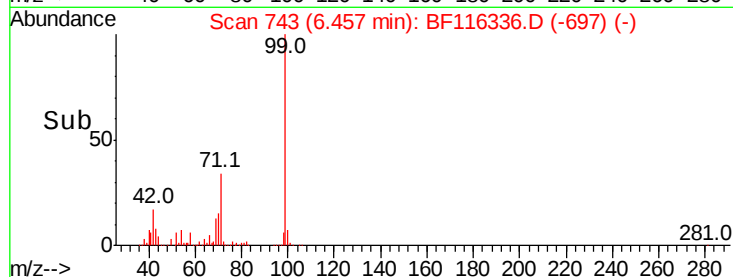
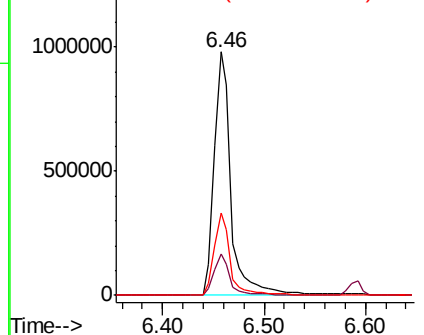
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Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.10 min Scan# 1022

Delta R.T. -0.03 min

Lab File: BF116336.D

Acq: 16 Aug 2019 23:46

Tgt Ion: 136 Resp: 613830

Ion Ratio Lower Upper

136 100

137 10.9 9.0 13.4

54 6.7 5.8 8.6

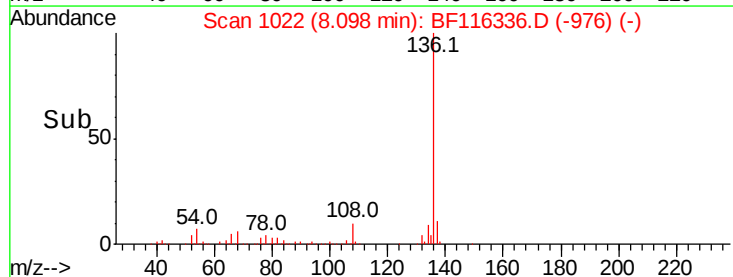
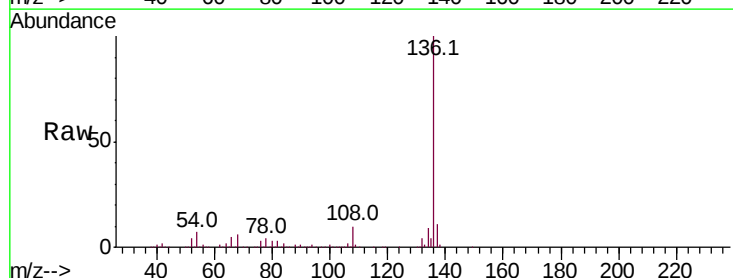
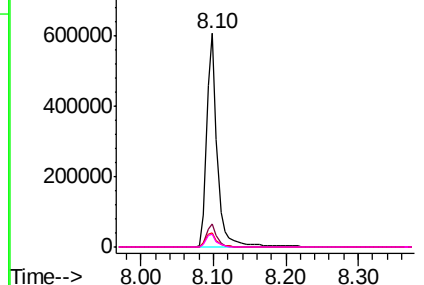
68 6.1 5.2 7.8

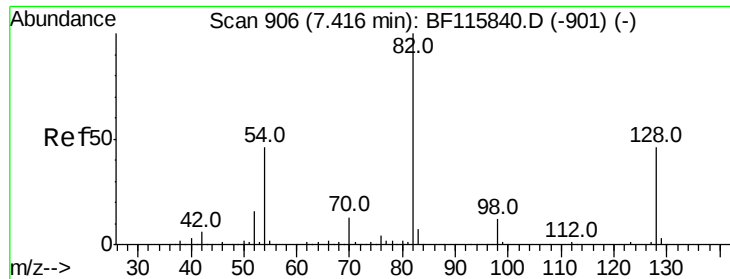
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





#23

Nitrobenzene-d5

Concen: 67.934 ng

RT: 7.38 min Scan# 900

Delta R.T. -0.04 min

Lab File: BF116336.D

Acq: 16 Aug 2019 23:46

Instrument :

BNA_F

ClientSampleId :

SOIL-COMPOSITE

Tot Ion: 82 Resp: 722417

Ion Ratio Lower Upper

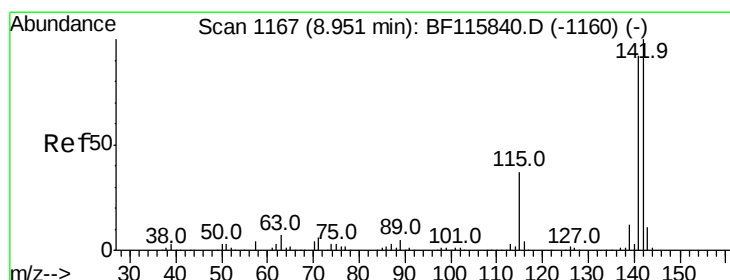
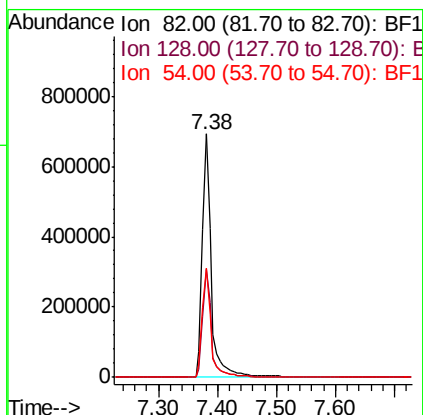
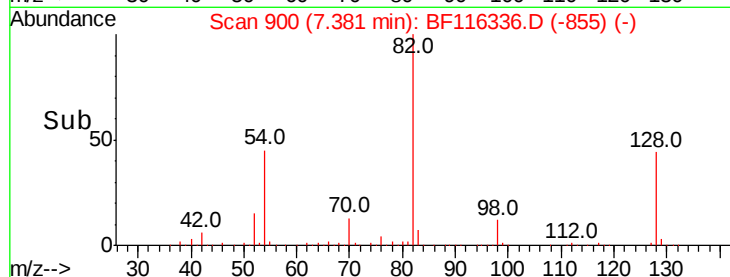
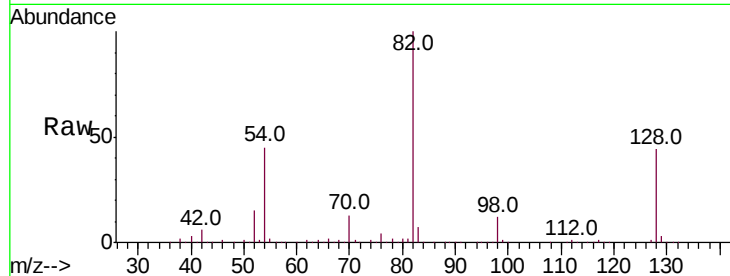
82 100

128 44.4 36.5 54.7

54 44.8 36.0 54.0

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#38

1-Methylnaphthalene

Concen: 2.739 ng

RT: 8.91 min Scan# 1160

Delta R.T. -0.03 min

Lab File: BF116336.D

Acq: 16 Aug 2019 23:46

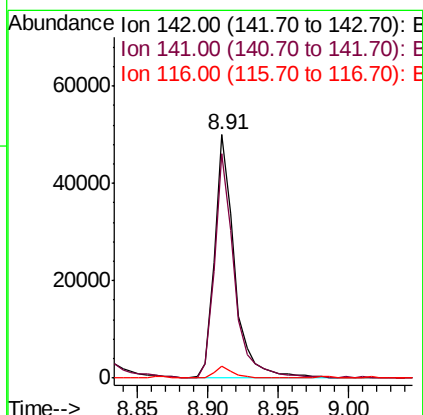
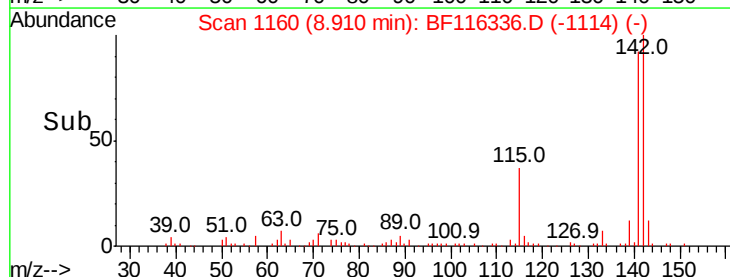
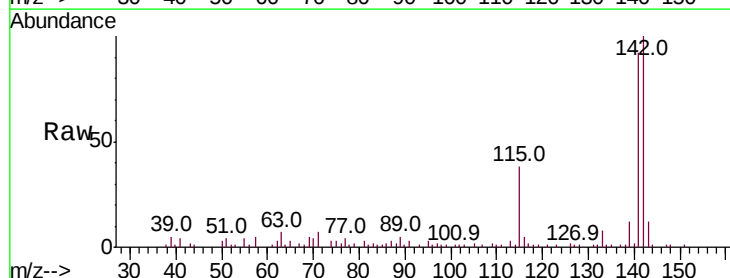
Tgt Ion: 142 Resp: 49288

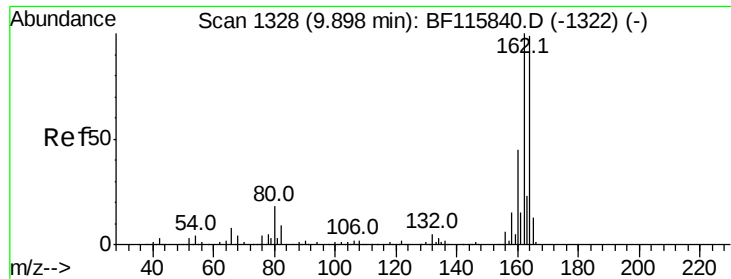
Ion Ratio Lower Upper

142 100

141 92.3 74.4 111.6

116 4.8 3.1 4.7#





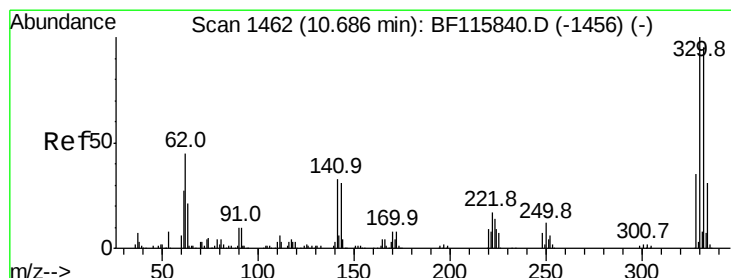
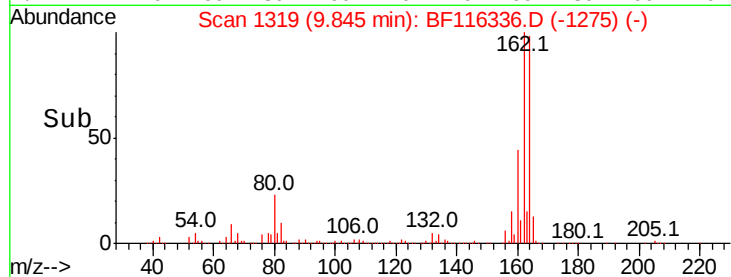
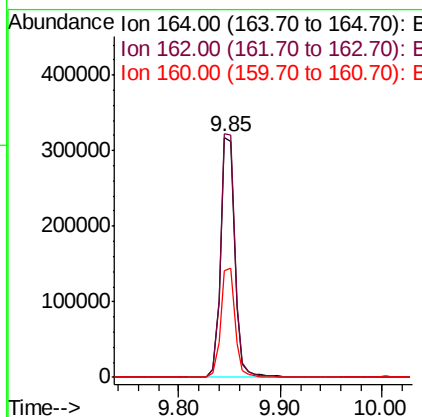
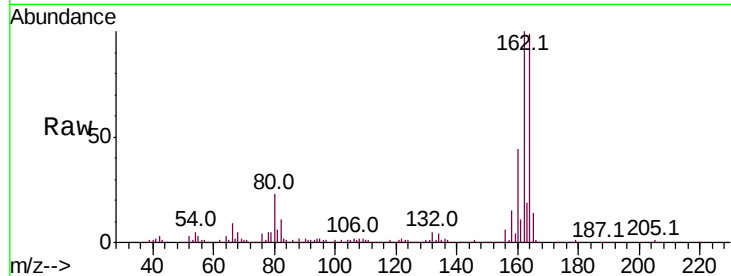
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.85 min Scan# 1319
 Delta R.T. -0.04 min
 Lab File: BF116336.D
 Acq: 16 Aug 2019 23:46

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-COMPOSITE

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	101.5	82.6	124.0	
160	44.6	37.6	56.4	

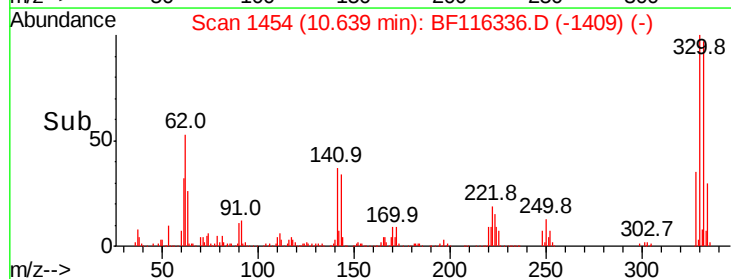
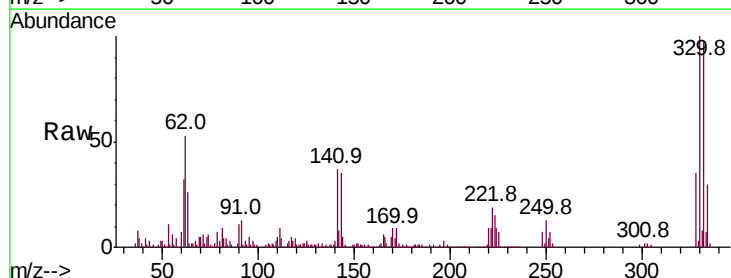
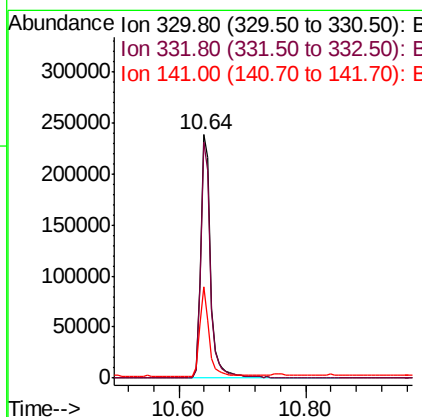
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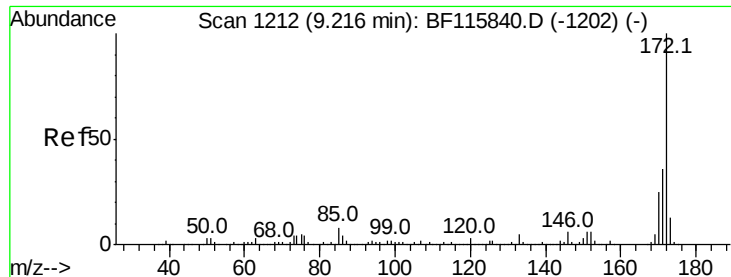
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#42
 2,4,6-Tribromophenol
 Concen: 84.655 ng
 RT: 10.64 min Scan# 1454
 Delta R.T. -0.04 min
 Lab File: BF116336.D
 Acq: 16 Aug 2019 23:46

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	95.6	76.8	115.2	
141	34.8	26.3	39.5	





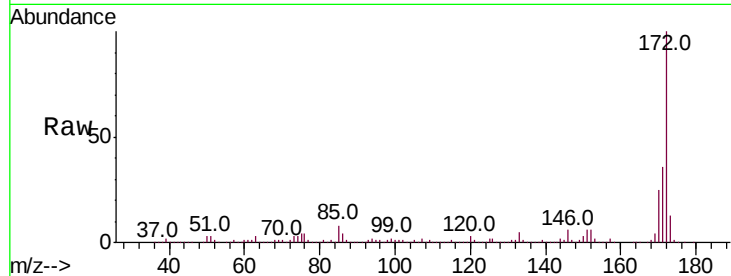
#45
2-Fluorobiphenyl
Concen: 56.365 ng
RT: 9.17 min Scan# 1204
Delta R.T. -0.04 min
Lab File: BF116336.D
Acq: 16 Aug 2019 23:46

Instrument :
BNA_F
ClientSampleId :
SOIL-COMPOSITE

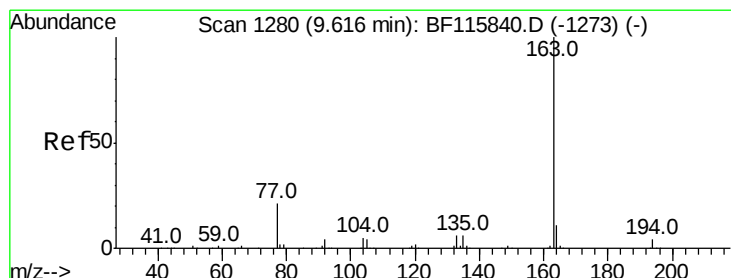
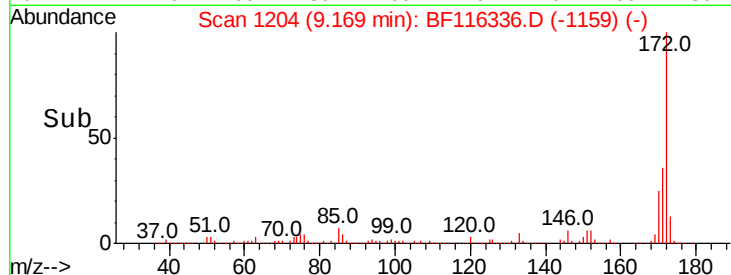
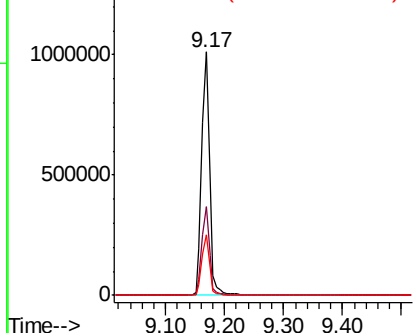
Tot Ion	Ratio	Resp	Lower	Upper
172	100			
171	36.3	29.6	44.4	
170	24.8	20.1	30.1	

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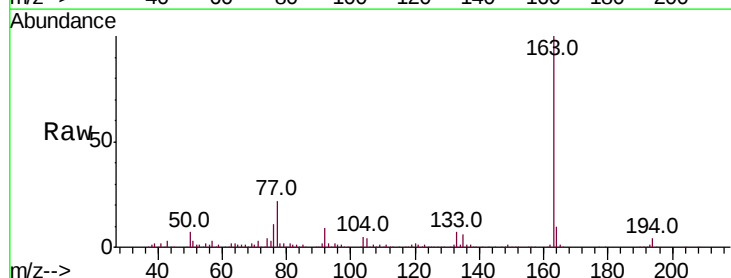


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

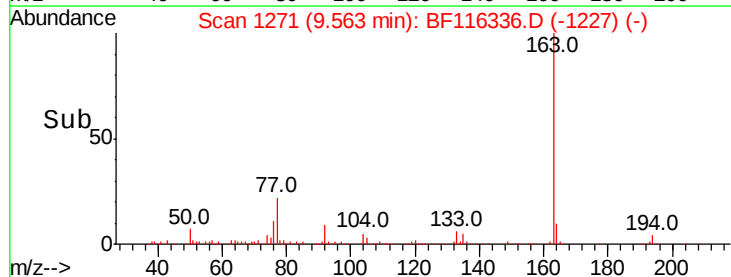
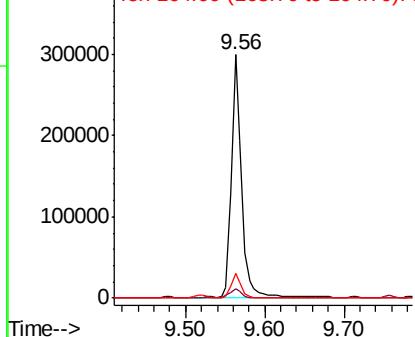


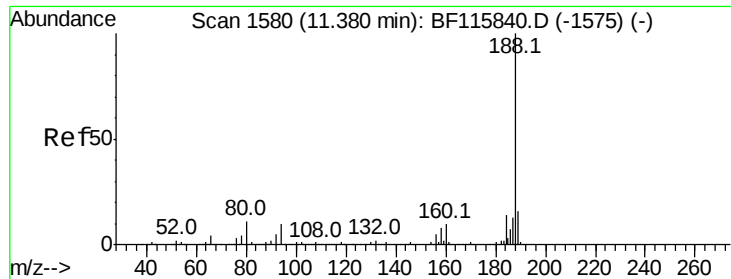
#50
Dimethylphthalate
Concen: 12.722 ng
RT: 9.56 min Scan# 1271
Delta R.T. -0.04 min
Lab File: BF116336.D
Acq: 16 Aug 2019 23:46

Tgt Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.9	3.0	4.6	
164	10.4	8.4	12.6	



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





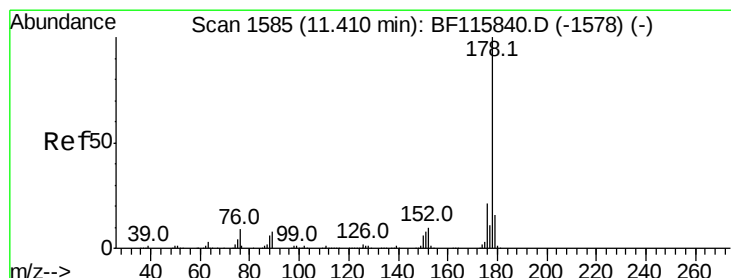
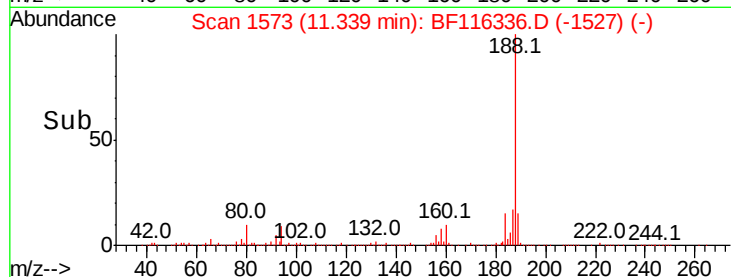
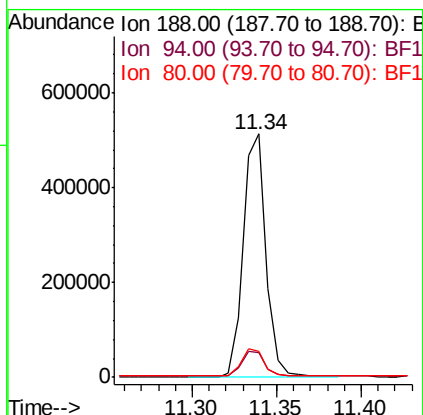
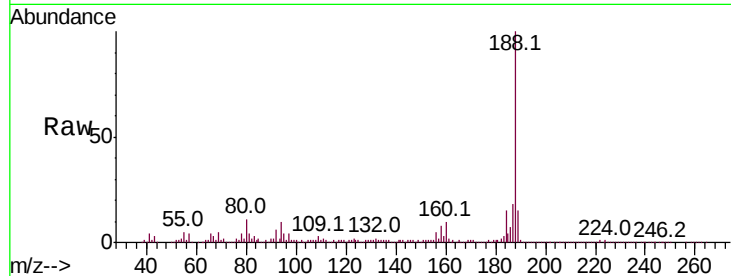
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.34 min Scan# 1573
Delta R.T. -0.03 min
Lab File: BF116336.D
Acq: 16 Aug 2019 23:46

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SOIL-COMPOSITE

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	10.0	8.1	12.1
80	10.5	8.7	13.1

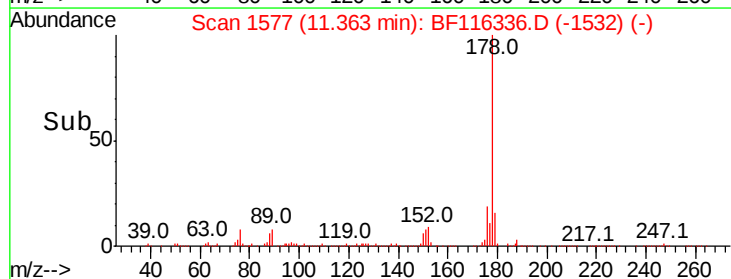
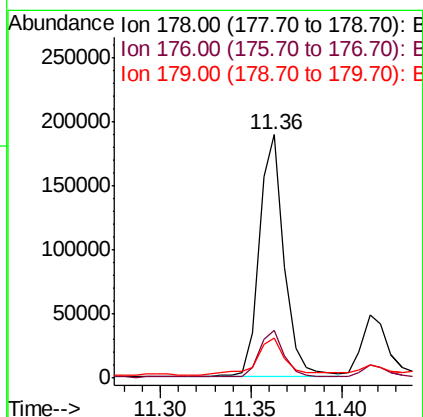
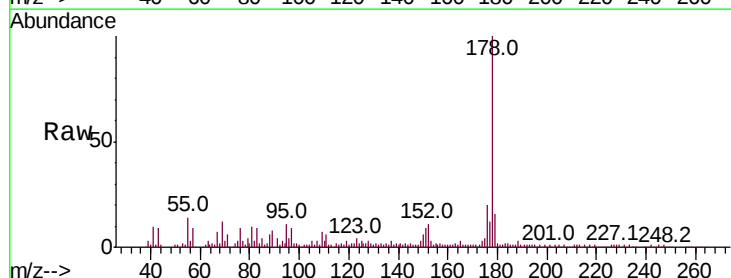
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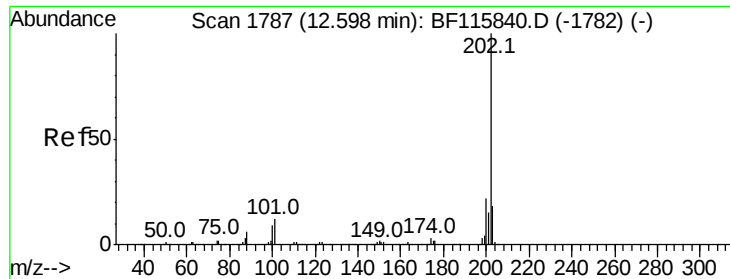
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#71
Phenanthrene
Concen: 7.218 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.04 min
Lab File: BF116336.D
Acq: 16 Aug 2019 23:46

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.5	16.6	24.8
179	16.5	12.5	18.7





#75

Fluoranthene

Concen: 7.877 ng

RT: 12.55 min Scan# 1779

Delta R.T. -0.04 min

Lab File: BF116336.D

Acq: 16 Aug 2019 23:46

Instrument :

BNA_F

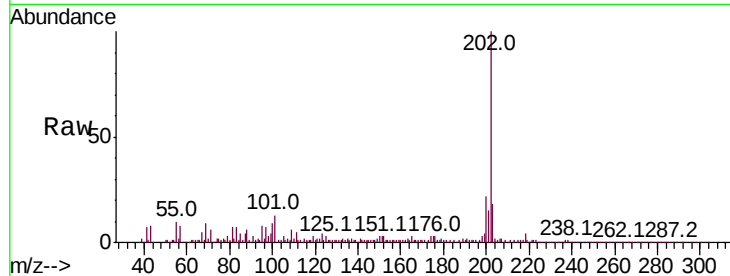
ClientSampleId :

SOIL-COMPOSITE

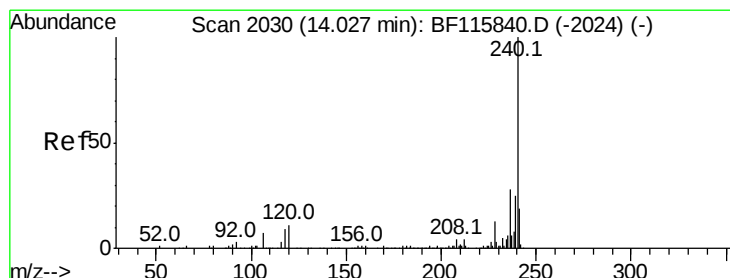
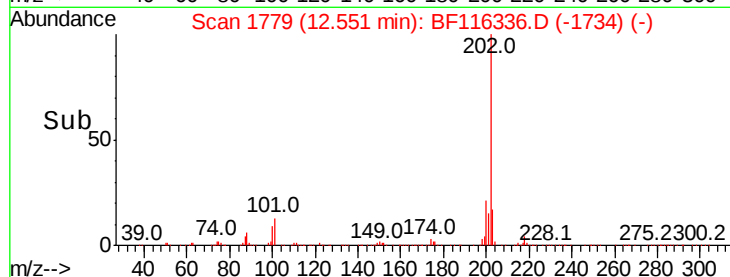
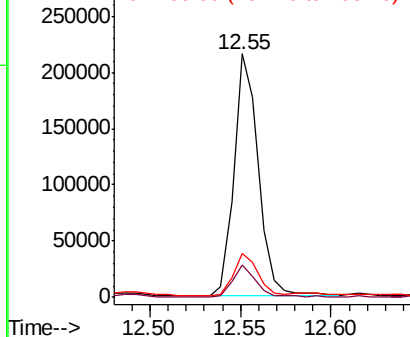
Tot Ion:	202	Resp:	202586
Ion Ratio		Lower	Upper
202	100		
101	13.2	0.0	31.2
203	17.9	0.0	37.8

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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: 13.98 min Scan# 2022

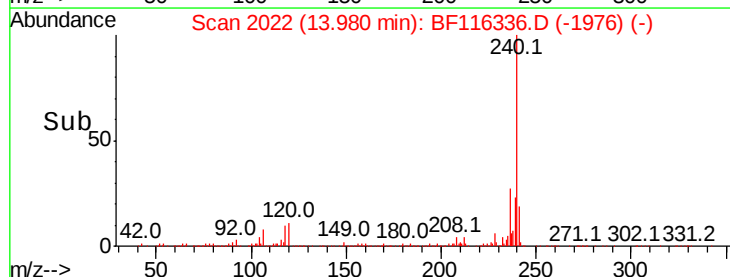
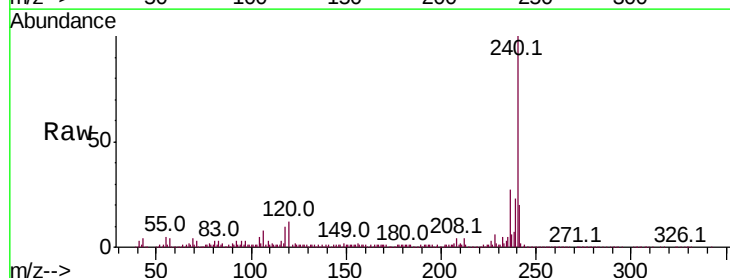
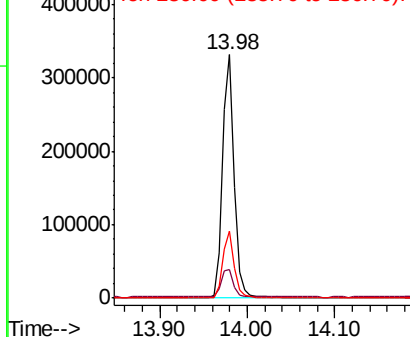
Delta R.T. -0.03 min

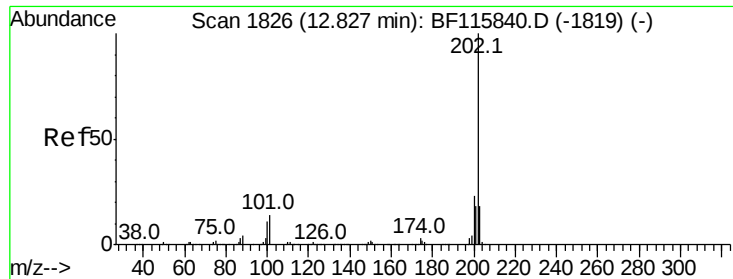
Lab File: BF116336.D

Acq: 16 Aug 2019 23:46

Tgt Ion:	240	Resp:	305389
Ion Ratio		Lower	Upper
240	100		
120	11.5	10.7	16.1
236	27.3	22.2	33.2

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





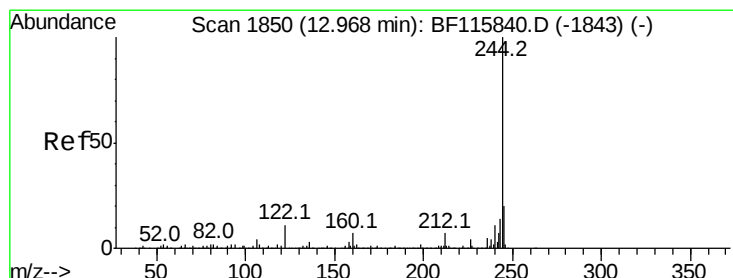
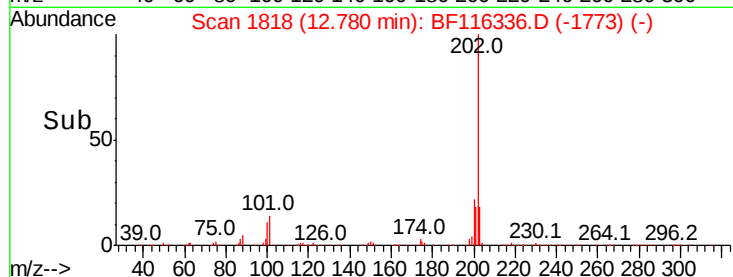
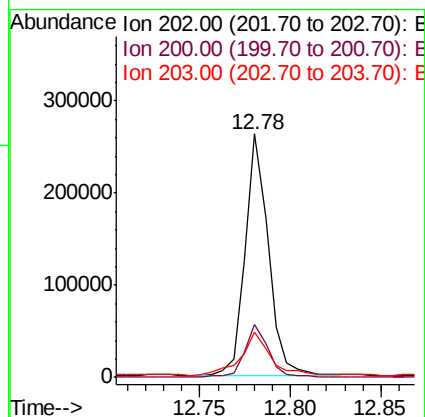
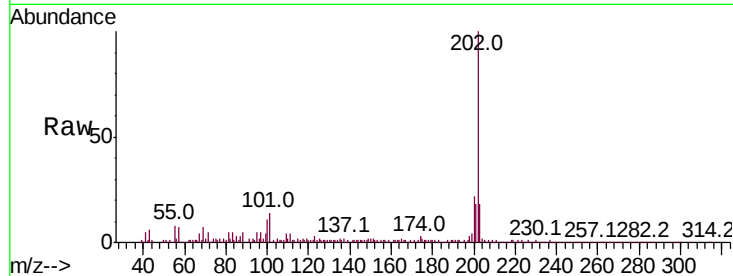
#78
Pvrene
Concen: 10.239 ng
RT: 12.78 min Scan# 1818
Delta R.T. -0.04 min
Lab File: BF116336.D
Acq: 16 Aug 2019 23:46

Instrument :
BNA_F
ClientSampleId :
SOIL-COMPOSITE

Tot Ion:	202	Resp:	235698
Ion Ratio	Lower	Upper	
202	100		
200	22.0	18.0	27.0
203	18.5	14.1	21.1

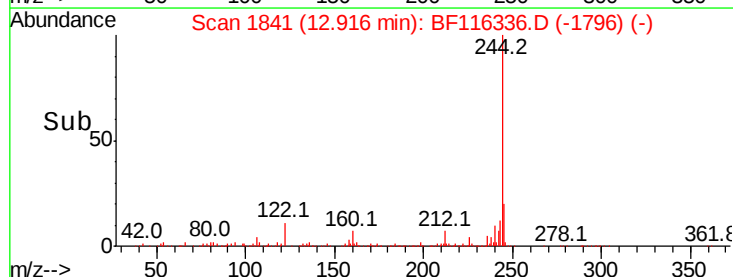
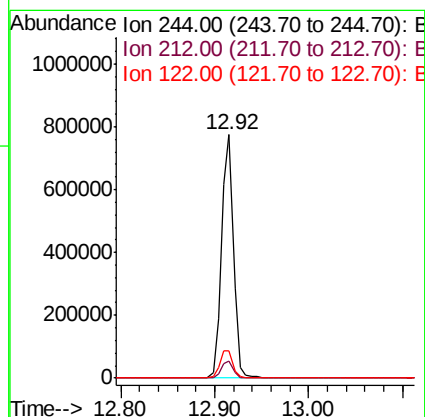
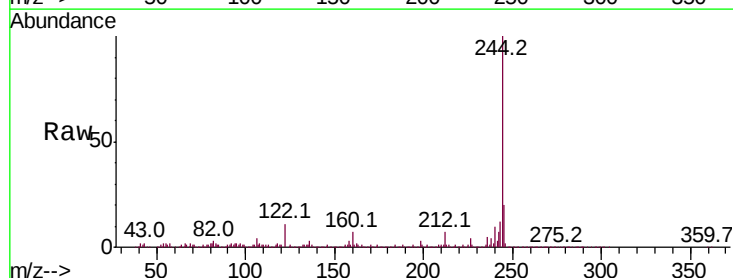
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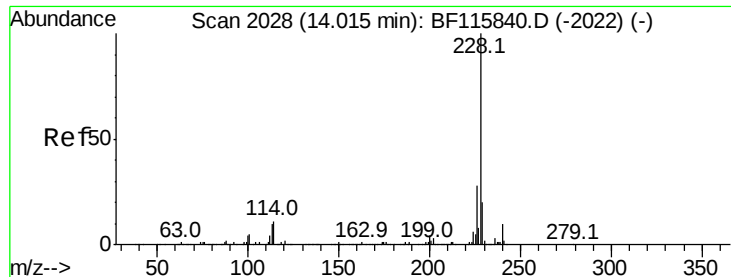
mohammad
8/20/2019 8:37:05 AM



#79
Terphenyl-d14
Concen: 47.655 ng
RT: 12.92 min Scan# 1841
Delta R.T. -0.04 min
Lab File: BF116336.D
Acq: 16 Aug 2019 23:46

Tgt Ion:	244	Resp:	690660
Ion Ratio	Lower	Upper	
244	100		
212	7.0	5.8	8.8
122	11.2	9.0	13.4





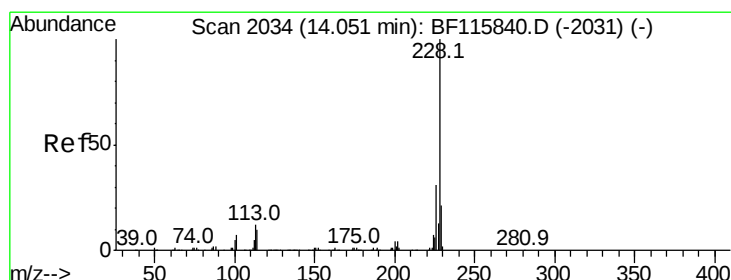
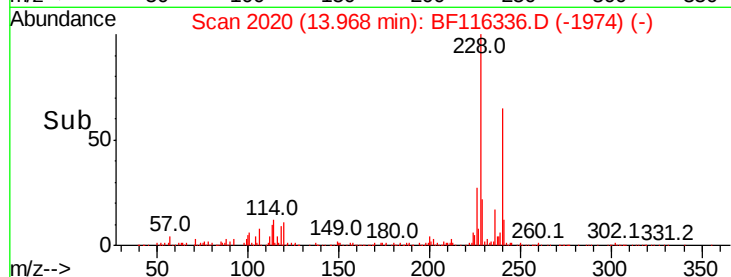
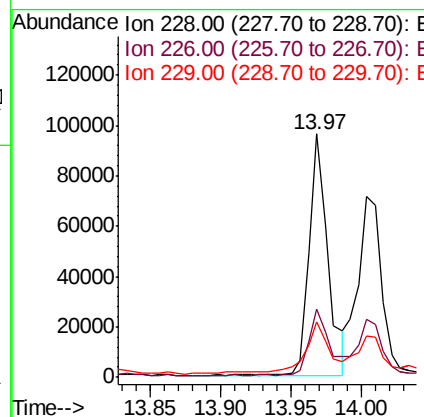
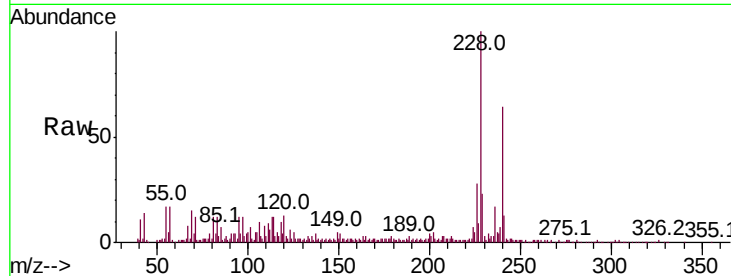
#81
Benzo(a)anthracene
Concen: 4.568 ng
RT: 13.97 min Scan# 2020
Delta R.T. -0.03 min
Lab File: BF116336.D
Acq: 16 Aug 2019 23:46

Instrument :
BNA_F
ClientSampleId :
SOIL-COMPOSITE

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.7	34.1
229	22.7	16.2	24.4

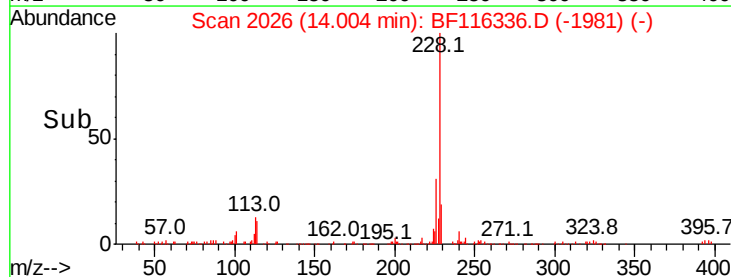
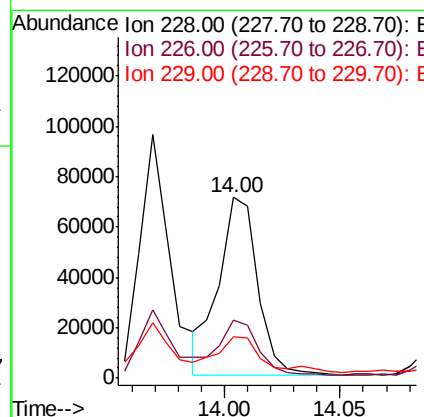
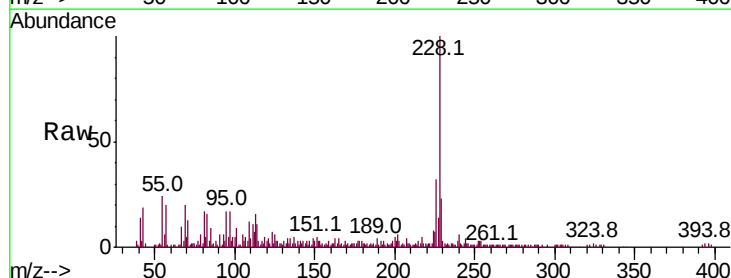
Manual Integrations
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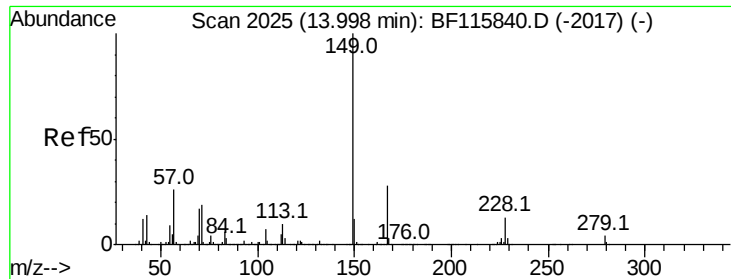
mohammad
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#83
Chrysene
Concen: 4.438 ng
RT: 14.00 min Scan# 2026
Delta R.T. -0.04 min
Lab File: BF116336.D
Acq: 16 Aug 2019 23:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.4	25.5	38.3
229	23.0	16.6	24.8





#84

Bis(2-ethylhexyl)phthalate

Concen: 5.100 ng

RT: 13.94 min Scan# 2015

Delta R.T. -0.04 min

Lab File: BF116336.D

Acq: 16 Aug 2019 23:46

Instrument :

BNA_F

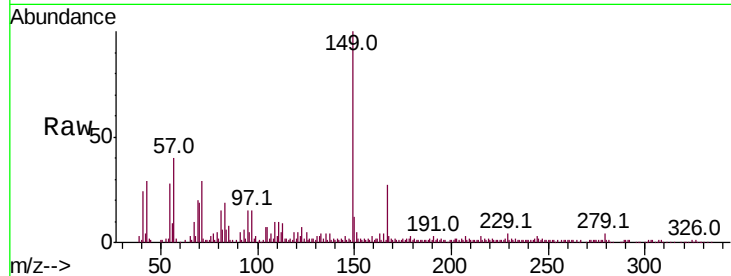
ClientSampleId :

SOIL-COMPOSITE

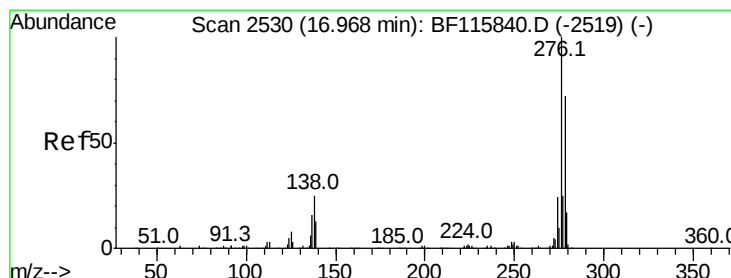
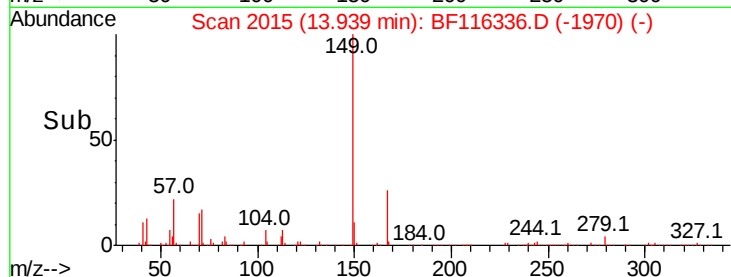
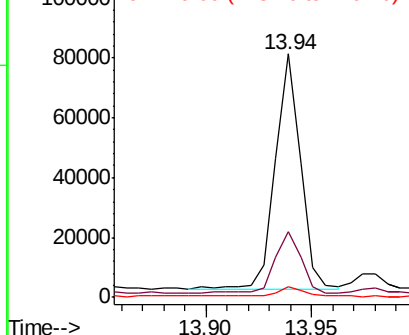
Tot Ion:	149	Resp:	64542
Ion Ratio	Lower	Upper	
149	100		
167	27.1	21.6	32.4
279	4.2	3.0	4.4

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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



#86

Indeno(1,2,3-cd)pyrene

Concen: 2.815 ng

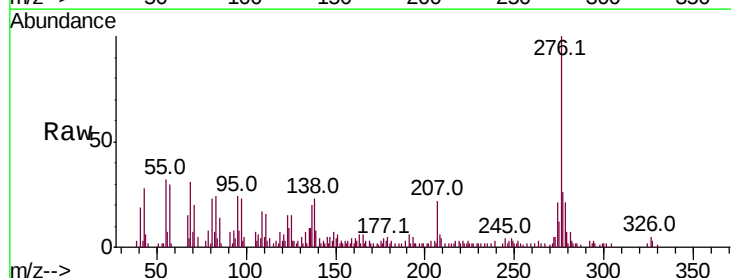
RT: 16.92 min Scan# 2522

Delta R.T. -0.03 min

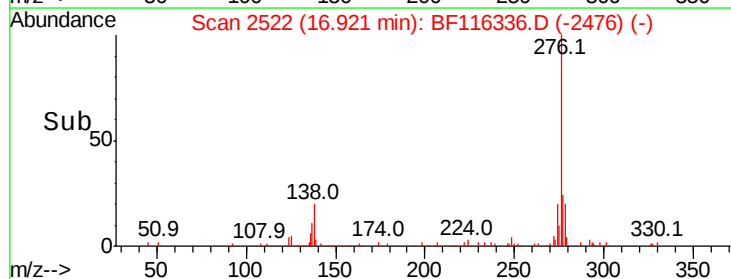
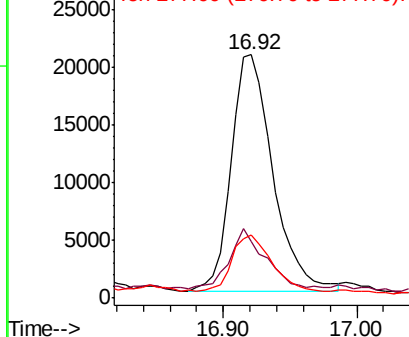
Lab File: BF116336.D

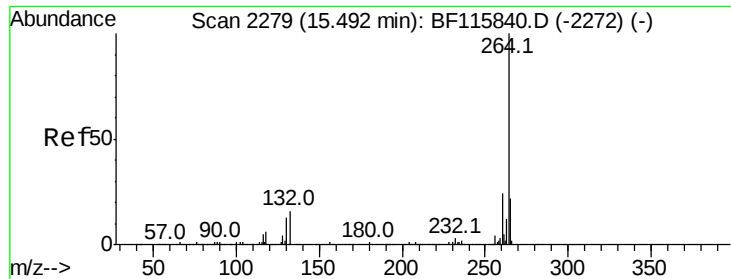
Acq: 16 Aug 2019 23:46

Tgt Ion:	276	Resp:	44808
Ion Ratio	Lower	Upper	
276	100		
138	21.6	20.4	30.6
277	22.4	20.0	30.0



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

Pervlene-d12

Concen: 20.000 ng

RT: 15.44 min Scan# 2270

Delta R.T. -0.04 min

Lab File: BF116336.D

Acq: 16 Aug 2019 23:46

Instrument :

BNA_F

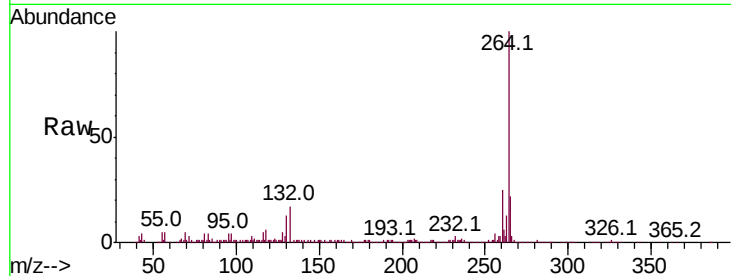
ClientSampleId :

SOIL-COMPOSITE

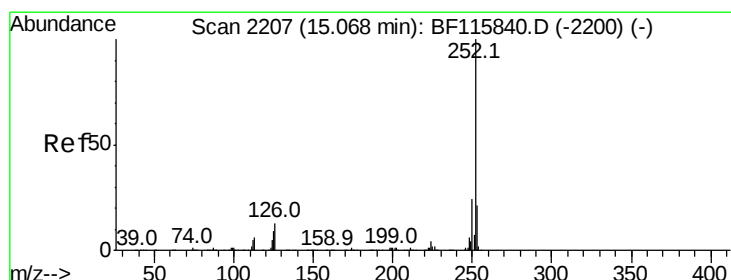
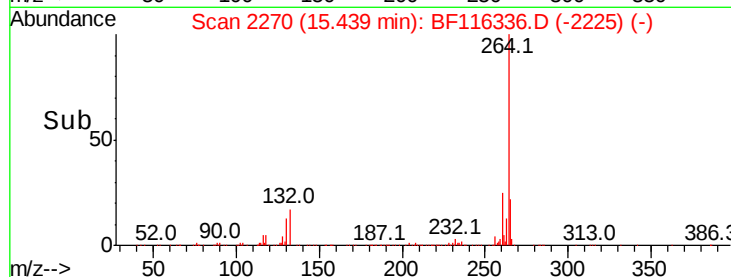
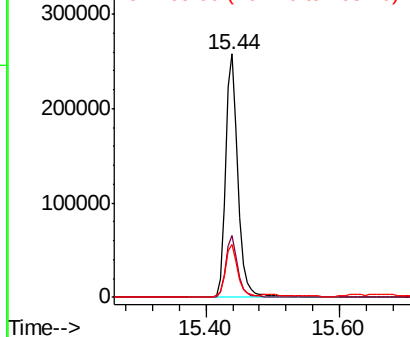
Tot Ion:	264	Resp:	332708
Ion Ratio	Lower	Upper	
264	100		
260	25.2	19.7	29.5
265	21.8	17.4	26.0

Manual Integrations
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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



#88

Benzo(b)fluoranthene

Concen: 4.619 ng m

RT: 15.02 min Scan# 2199

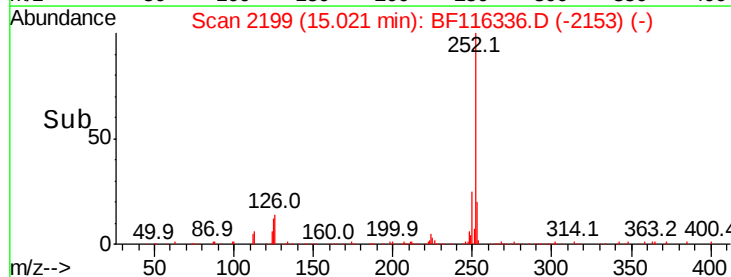
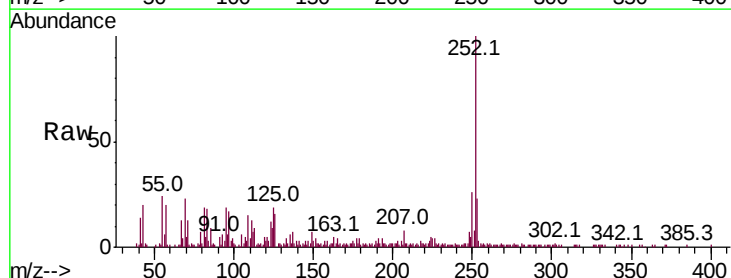
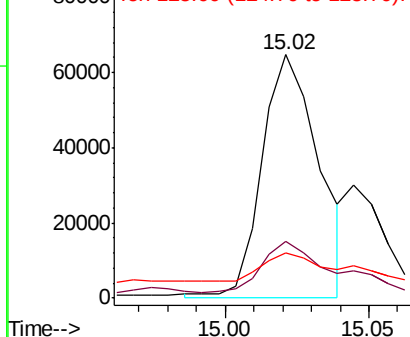
Delta R.T. -0.03 min

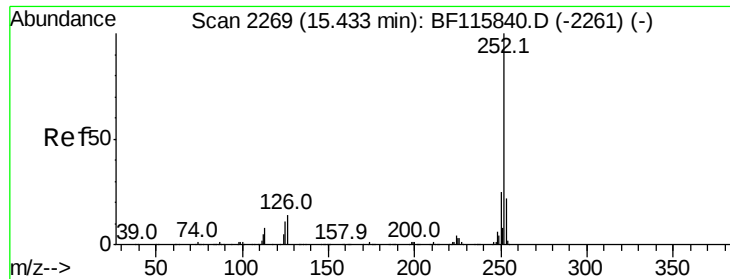
Lab File: BF116336.D

Acq: 16 Aug 2019 23:46

Tgt Ion:	252	Resp:	88863
Ion Ratio	Lower	Upper	
252	100		
253	23.5	17.8	26.8
125	18.8	8.4	12.6#

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





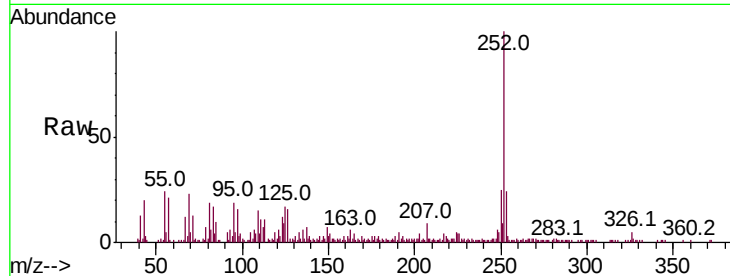
#90
Benzo(a)pyrene
Concen: 4.089 ng
RT: 15.39 min Scan# 2261
Delta R.T. -0.03 min
Lab File: BF116336.D
Acq: 16 Aug 2019 23:46

Instrument :
BNA_F
ClientSampleId :
SOIL-COMPOSITE

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.0	27.0
125	16.6	8.9	13.3

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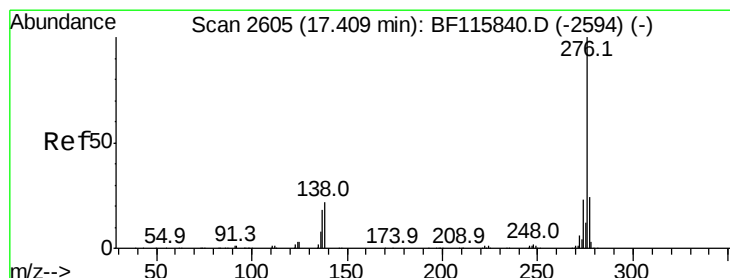
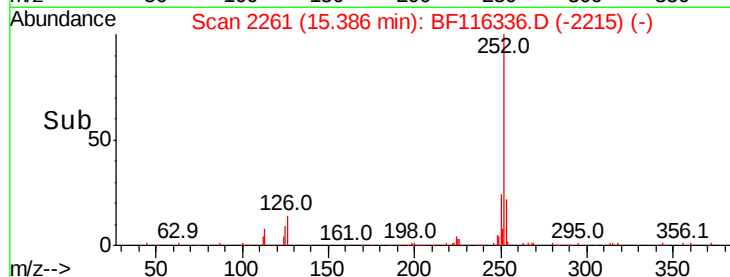
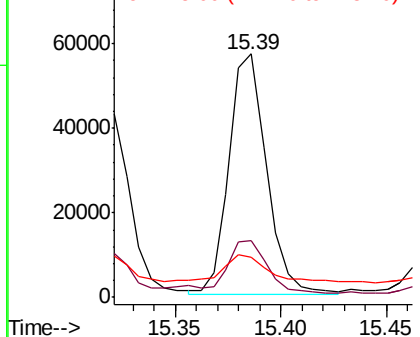


Abundance

Ion 252.00 (251.70 to 252.70): E

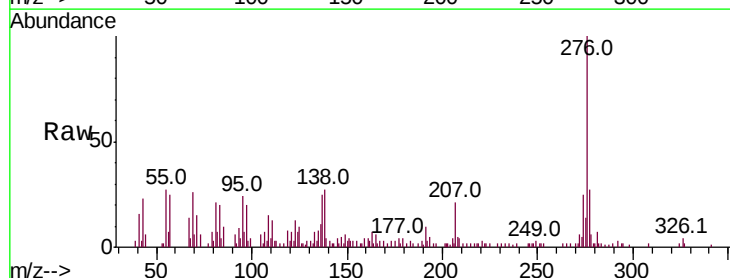
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#92
Benzo(g,h,i)perylene
Concen: 3.307 ng
RT: 17.36 min Scan# 2597
Delta R.T. -0.02 min
Lab File: BF116336.D
Acq: 16 Aug 2019 23:46

Tgt Ion	Ratio	Lower	Upper
276	100		
277	27.2	18.4	27.6
138	26.6	17.0	25.6



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

