

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092319\
 Data File : BF117212.D
 Acq On : 23 Sep 2019 18:33
 Operator : HP/JU
 Sample : K4980-06
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SAND-STOCKPILE-2

Manual Integrations
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Quant Time: Sep 24 03:31:37 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 13 16:23:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	24020	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	99596	20.00	ng	-0.01
39) Acenaphthene-d10	9.85	164	53403	20.00	ng	-0.01
64) Phenanthrene-d10	11.33	188	82752	20.00	ng	0.00
76) Chrysene-d12	13.97	240	47255	20.00	ng	0.00
87) Perylene-d12	15.43	264	53973	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	158426	102.97	ng	0.00
7) Phenol-d6	6.46	99	218950	110.12	ng	0.00
23) Nitrobenzene-d5	7.37	82	137838	72.72	ng	-0.01
42) 2,4,6-Tribromophenol	10.64	330	48196	107.98	ng	0.00
45) 2-Fluorobiphenyl	9.17	172	266695	78.09	ng	0.00
79) Terphenyl-d14	12.92	244	206390	81.64	ng	0.00

Target Compounds				Qvalue		
31) Naphthalene	8.12	128	15145	3.162	ng	96
37) 2-Methylnaphthalene	8.81	142	11259	3.491	ng	# 90
38) 1-Methylnaphthalene	8.90	142	10993	3.639	ng	# 95
49) Acenaphthylene	9.71	152	27954	5.644	ng	97
50) Dimethylphthalate	9.56	163	55298	14.624	ng	98
58) Fluorene	10.39	166	14482	4.151	ng	95
71) Phenanthrene	11.36	178	110904	23.595	ng	97
72) Anthracene	11.41	178	18133	3.779	ng	99
75) Fluoranthene	12.54	202	73137	15.144	ng	99
78) Pyrene	12.77	202	118192	29.808	ng	97
81) Benzo(a)anthracene	13.96	228	44593	14.124	ng	97
83) Chrysene	14.00	228	44806	14.551	ng	99
86) Indeno(1,2,3-cd)pyrene	16.87	276	15637	6.961	ng	# 74
88) Benzo(b)fluoranthene	15.01	252	39745m	12.157	ng	
89) Benzo(k)fluoranthene	15.03	252	12310m	3.975	ng	
90) Benzo(a)pyrene	15.37	252	34864	12.152	ng	96
91) Dibenzo(a,h)anthracene	16.87	278	5477	2.396	ng	# 89
92) Benzo(g,h,i)perylene	17.32	276	15675	6.883	ng	93

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

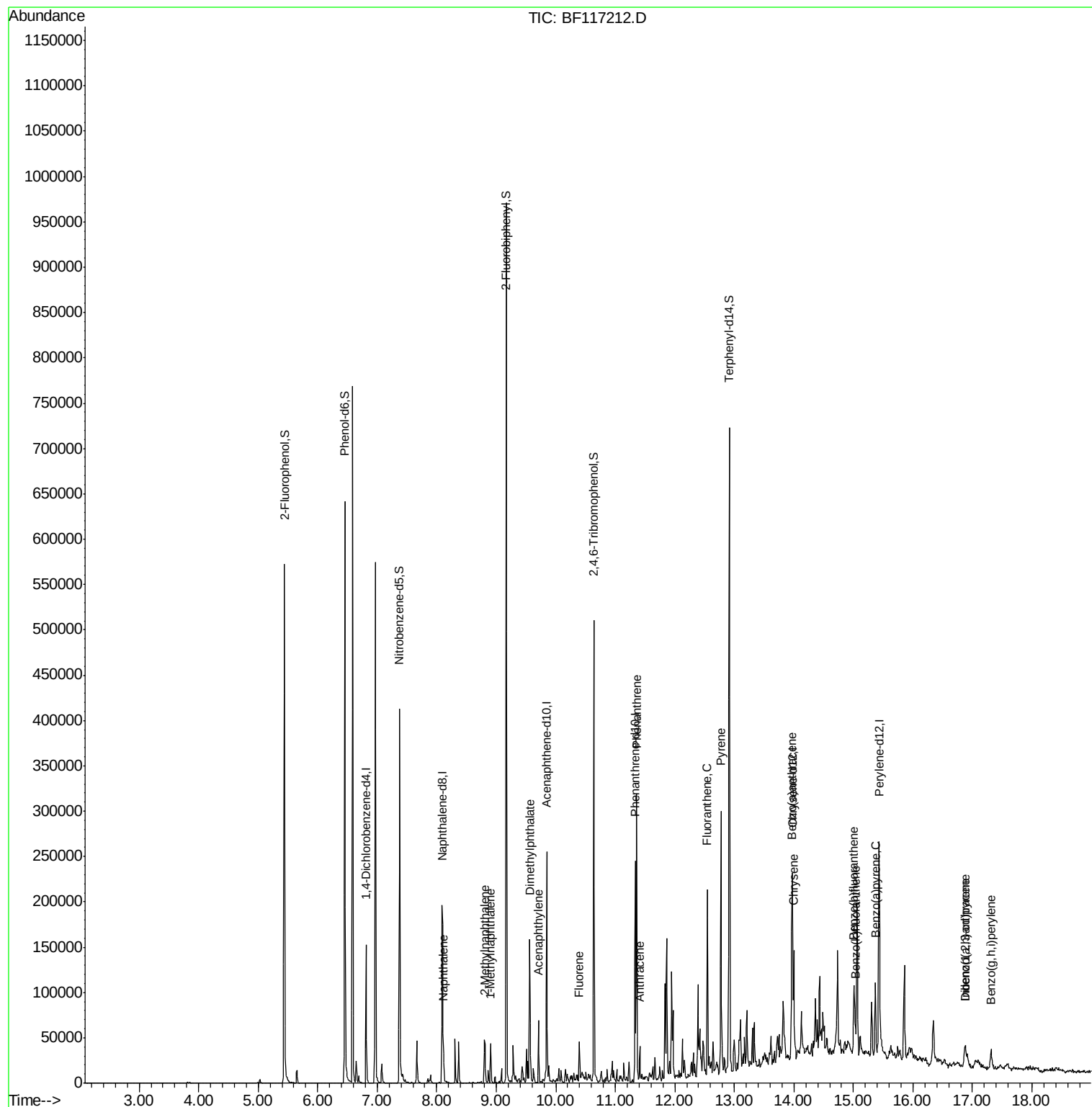
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092319\
Data File : BF117212.D
Acq On : 23 Sep 2019 18:33
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Sample : K4980-06
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ALS Vial : 6 Sample Multiplier: 1

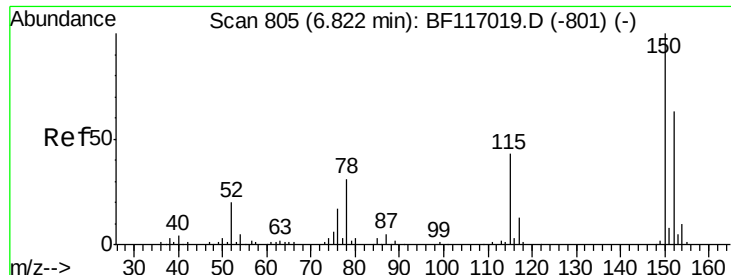
Instrument :
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SAND-STOCKPILE-2

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#1

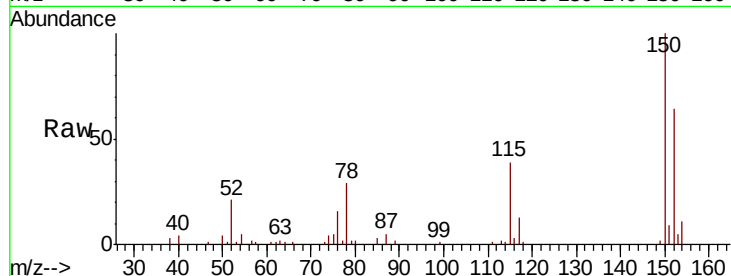
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 804
Delta R.T. -0.01 min
Lab File: BF117212.D
Acq: 23 Sep 2019 18:33

Instrument :
BNA_F
ClientSampleId :
SAND-STOCKPILE-2

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.8	127.5	191.3
115	61.0	55.0	82.4

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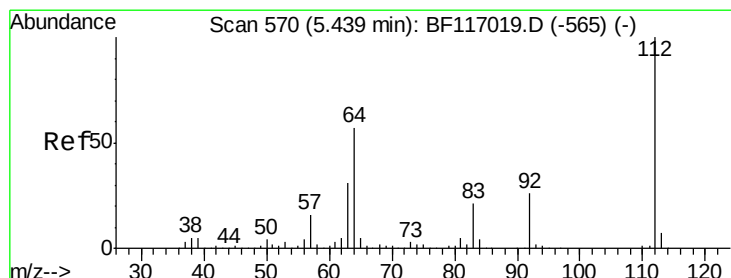
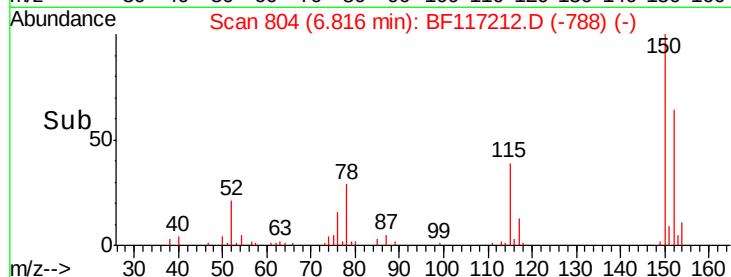
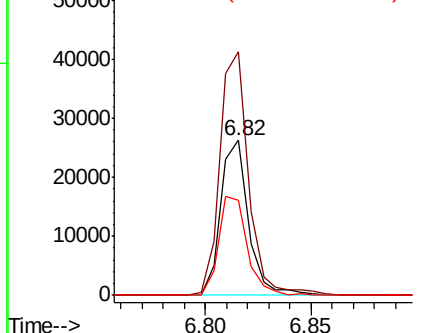


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

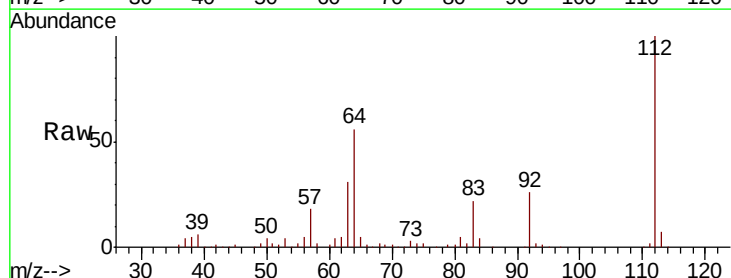
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 102.973 ng
RT: 5.44 min Scan# 570
Delta R.T. -0.00 min
Lab File: BF117212.D
Acq: 23 Sep 2019 18:33

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.1	45.7	68.5
63	31.2	24.9	37.3

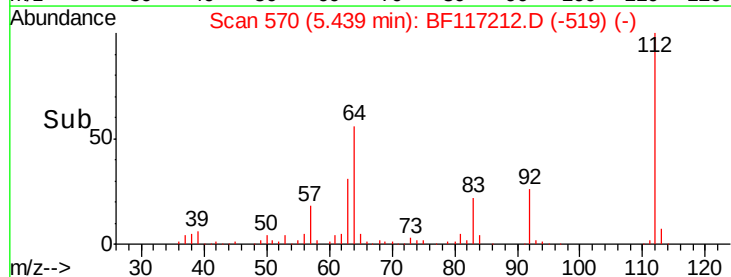
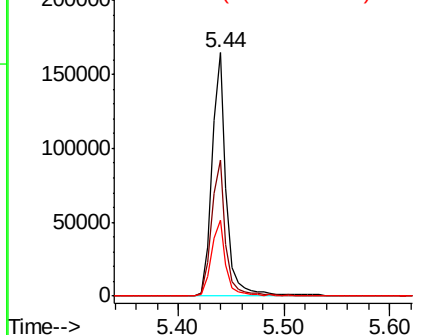


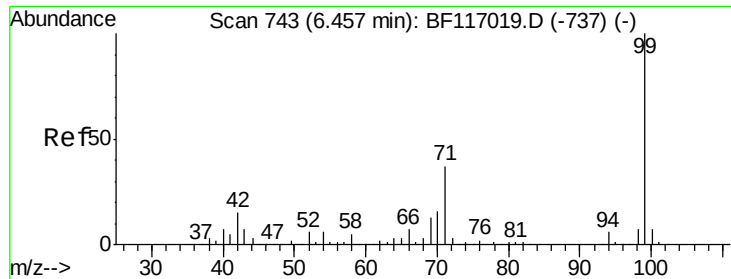
Abundance

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: 110.118 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.00 min

Lab File: BF117212.D

Acq: 23 Sep 2019 18:33

Instrument :

BNA_F

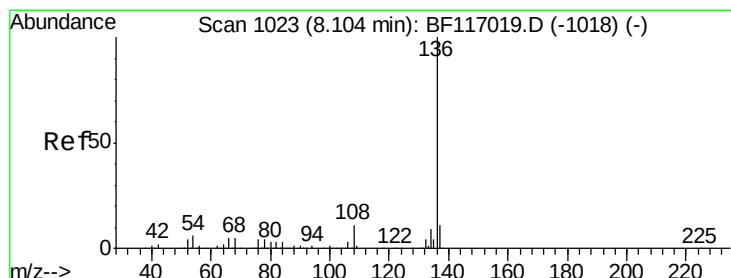
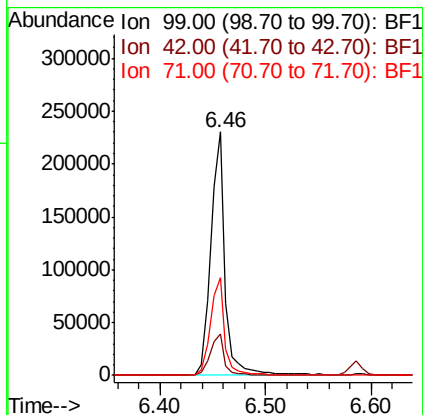
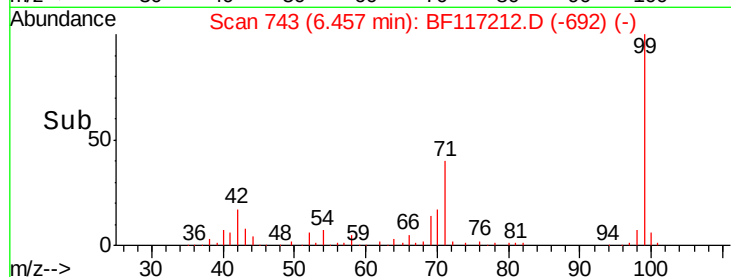
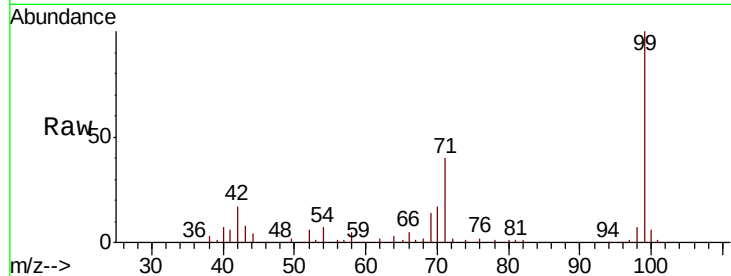
ClientSampleId :

SAND-STOCKPILE-2

Tot Ion:	99	Resp:	218950
Ion Ratio	Lower	Upper	
99	100		
42	16.9	12.2	18.2
71	40.0	29.8	44.8

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#21

Naphthalene-d8

Concen: 20.000 ng

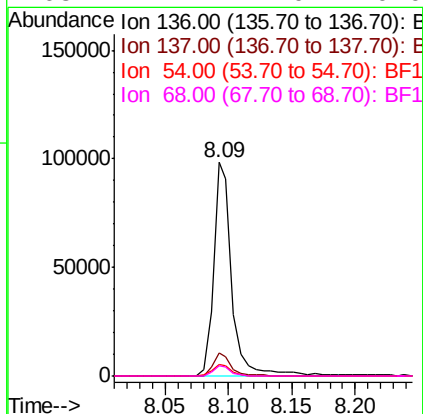
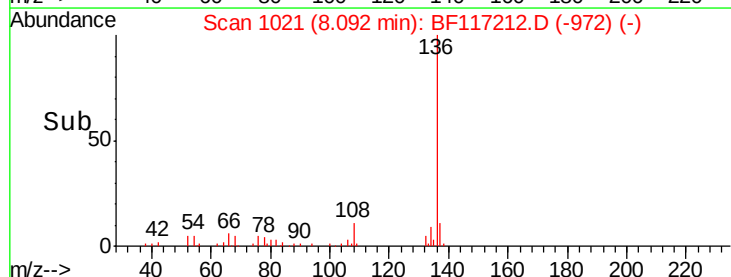
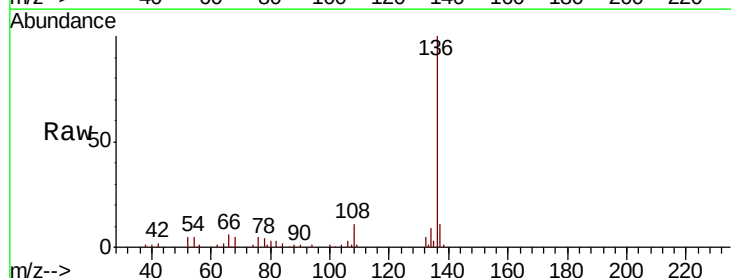
RT: 8.09 min Scan# 1021

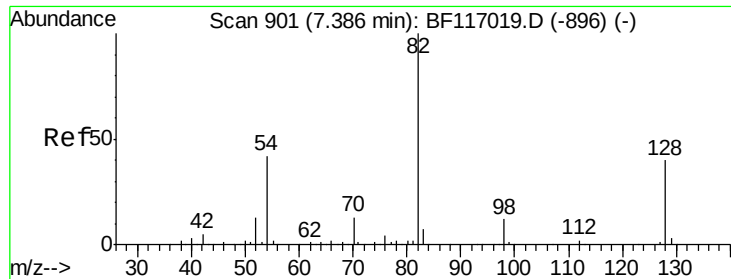
Delta R.T. -0.01 min

Lab File: BF117212.D

Acq: 23 Sep 2019 18:33

Tgt Ion:	136	Resp:	99596
Ion Ratio	Lower	Upper	
136	100		
137	11.1	9.0	13.4
54	5.4	4.5	6.7
68	4.7	4.0	6.0





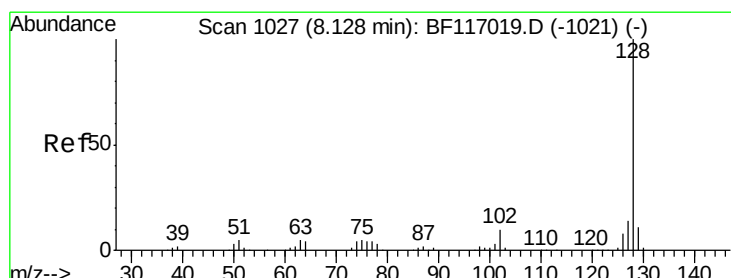
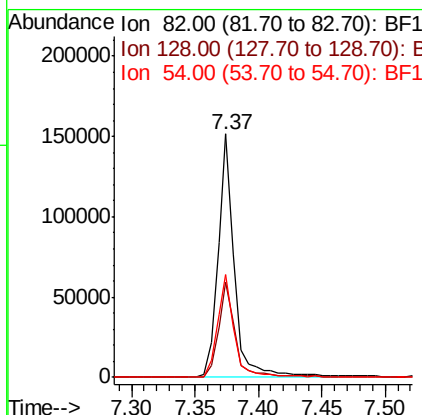
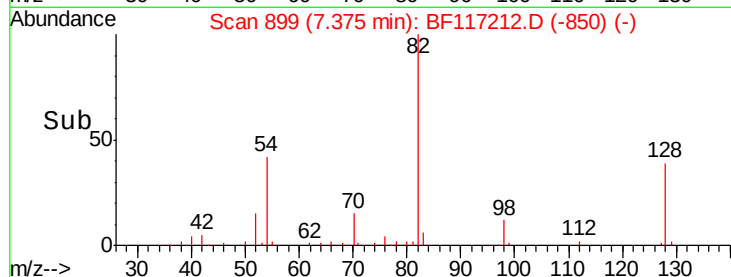
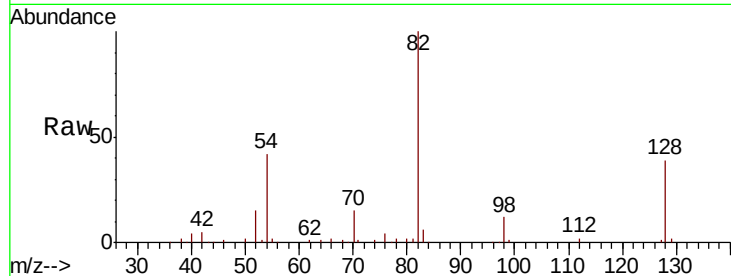
#23
 Nitrobenzene-d5
 Concen: 72.717 ng
 RT: 7.37 min Scan# 899
 Delta R.T. -0.01 min
 Lab File: BF117212.D
 Acq: 23 Sep 2019 18:33

Instrument :
 BNA_F
 ClientSampleId :
 SAND-STOCKPILE-2

Tot Ion	82	Resp	137838
Ion Ratio	Lower	Upper	
82	100		
128	39.0	32.3	48.5
54	42.3	33.3	49.9

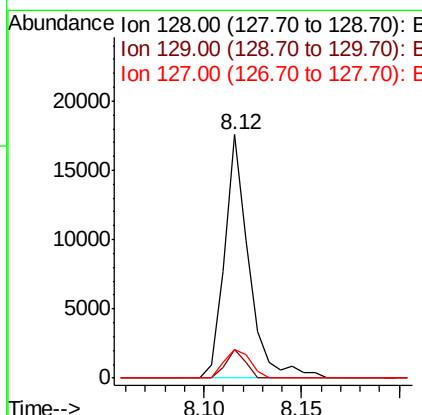
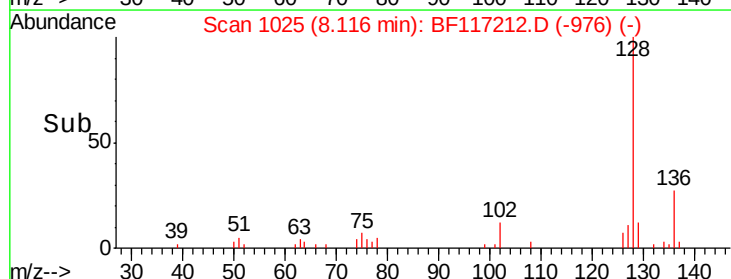
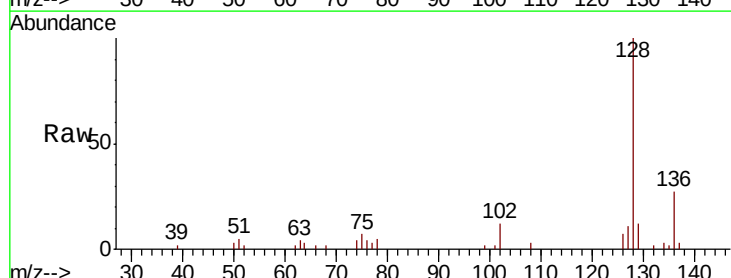
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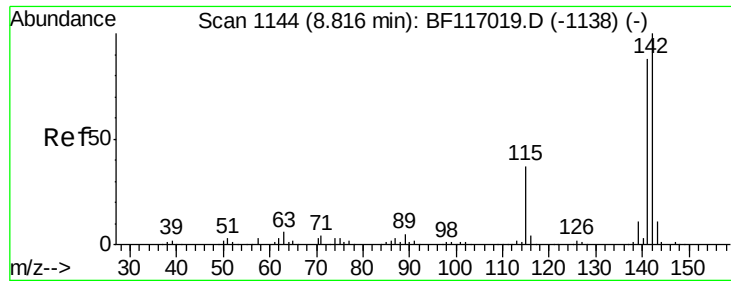
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#31
 Naphthalene
 Concen: 3.162 ng
 RT: 8.12 min Scan# 1025
 Delta R.T. -0.01 min
 Lab File: BF117212.D
 Acq: 23 Sep 2019 18:33

Tgt Ion	128	Resp	15145
Ion Ratio	Lower	Upper	
128	100		
129	12.0	9.0	13.4
127	11.5	10.8	16.2





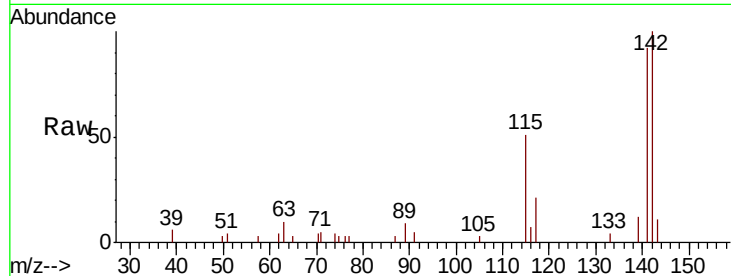
#37
2-Methylnaphthalene
Concen: 3.491 ng
RT: 8.81 min Scan# 1143
Delta R.T. -0.01 min
Lab File: BF117212.D
Acq: 23 Sep 2019 18:33

Instrument :
BNA_F
ClientSampleId :
SAND-STOCKPILE-2

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.8	70.7	106.1
115	50.7	29.4	44.0

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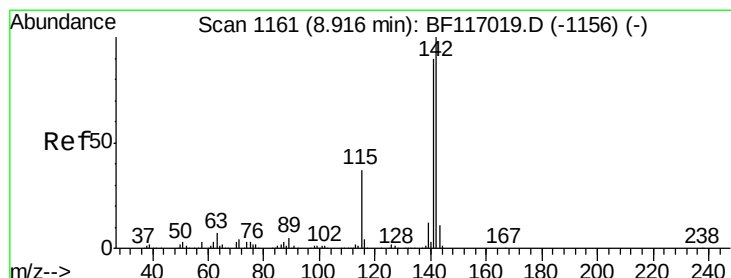
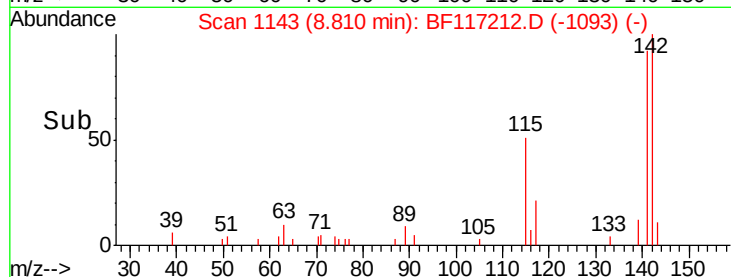
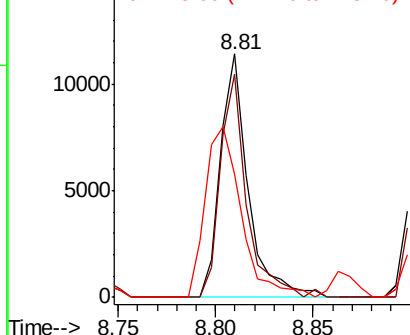


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
1-Methylnaphthalene
Concen: 3.639 ng
RT: 8.90 min Scan# 1159
Delta R.T. -0.01 min
Lab File: BF117212.D
Acq: 23 Sep 2019 18:33

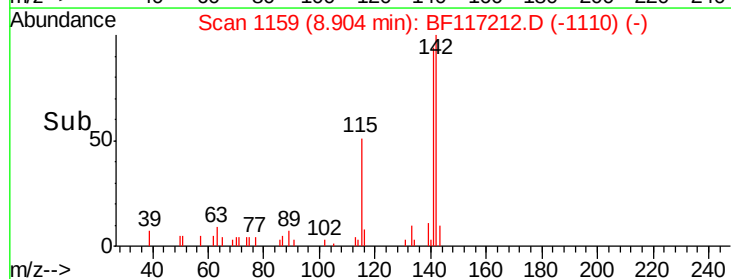
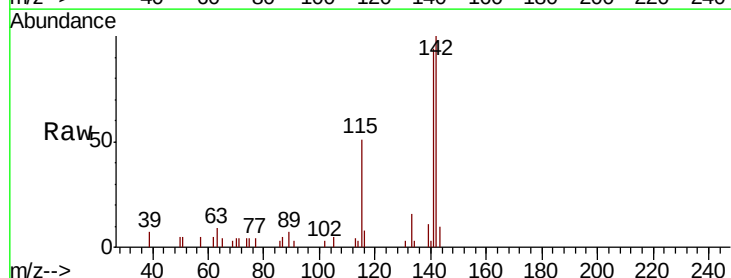
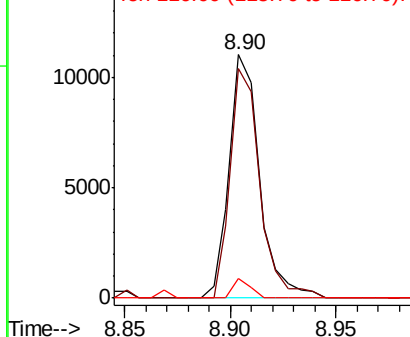
Tgt Ion	Ratio	Lower	Upper
142	100		
141	94.4	71.9	107.9
116	7.9	3.2	4.8

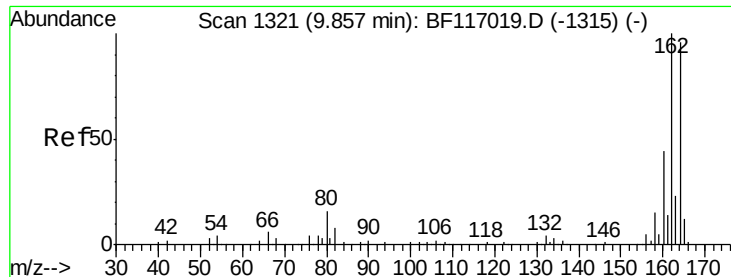
Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E





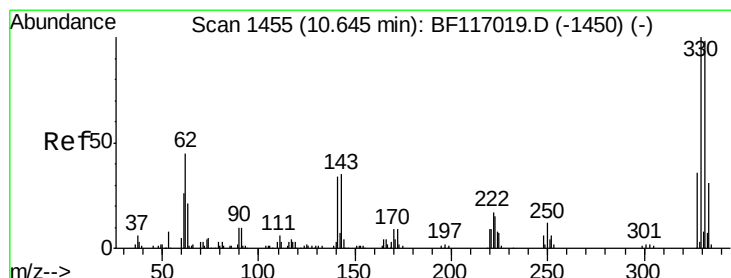
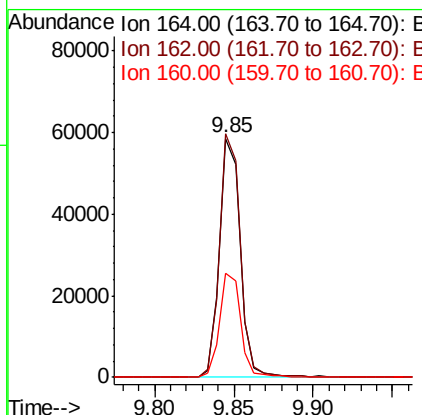
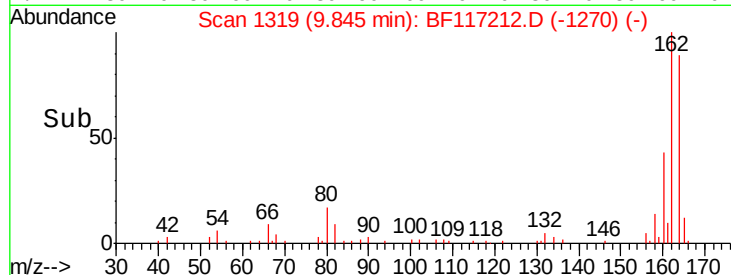
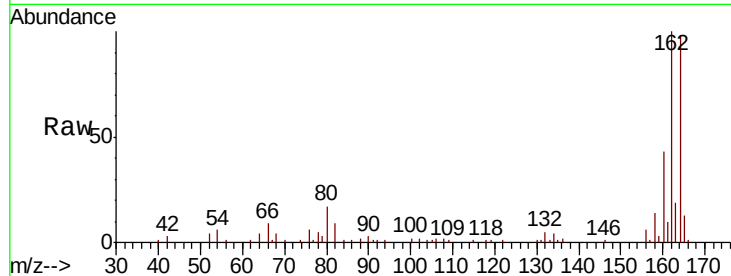
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.01 min
Lab File: BF117212.D
Acq: 23 Sep 2019 18:33

Instrument :
BNA_F
ClientSampleId :
SAND-STOCKPILE-2

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.9	83.4	125.2
160	43.6	36.4	54.6

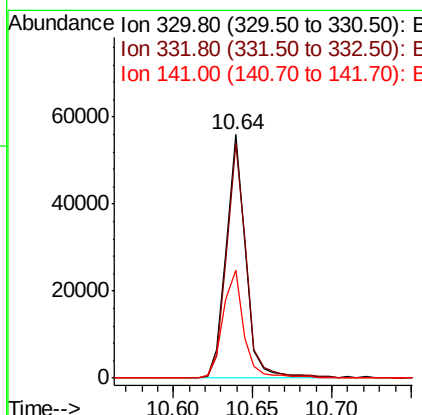
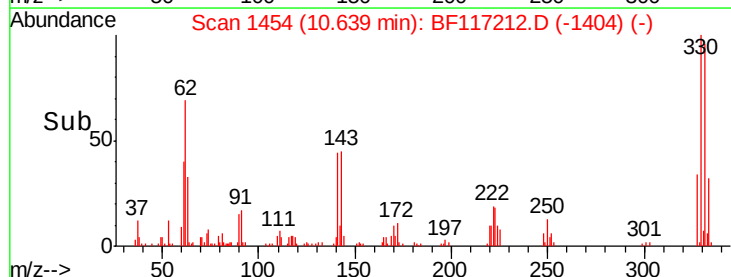
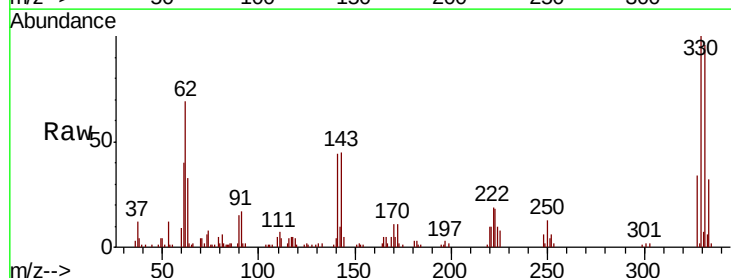
Manual Integrations
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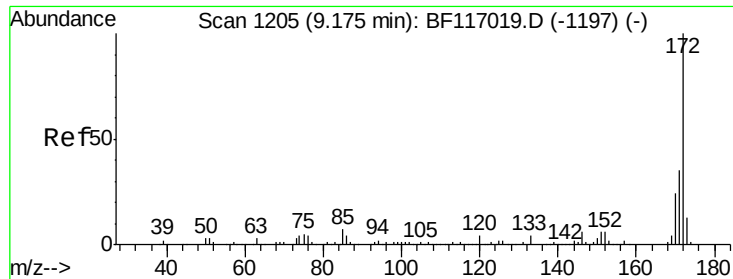
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#42
2,4,6-Tribromophenol
Concen: 107.984 ng
RT: 10.64 min Scan# 1454
Delta R.T. -0.01 min
Lab File: BF117212.D
Acq: 23 Sep 2019 18:33

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.5	78.0	117.0
141	47.4	35.8	53.6





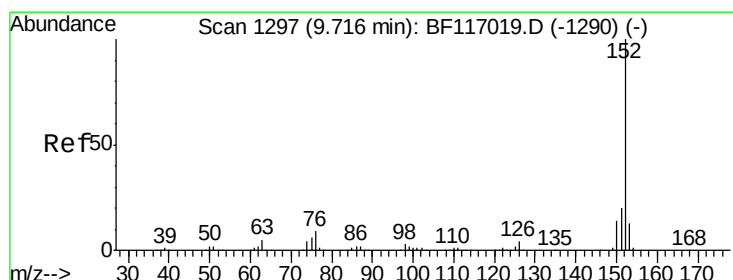
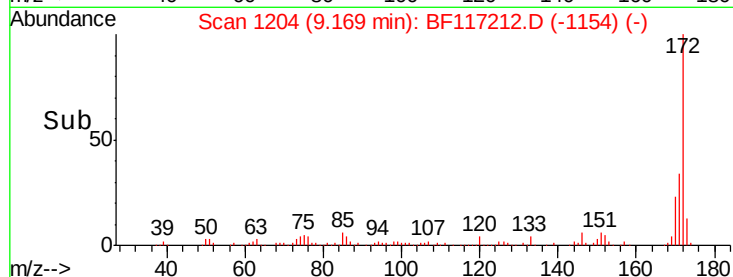
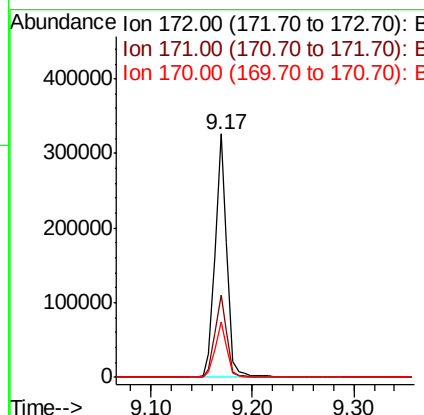
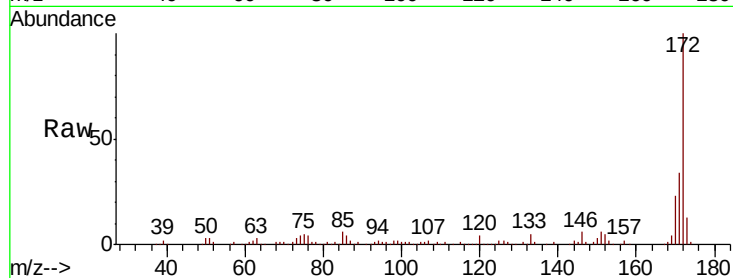
#45
2-Fluorobiphenyl
Concen: 78.085 ng
RT: 9.17 min Scan# 1204
Delta R.T. -0.01 min
Lab File: BF117212.D
Acq: 23 Sep 2019 18:33

Instrument :
BNA_F
ClientSampleId :
SAND-STOCKPILE-2

Tot Ion	Ratio	Resp	Lower	Upper
172	100	266695		
171	34.0		28.2	42.2
170	22.5		18.9	28.3

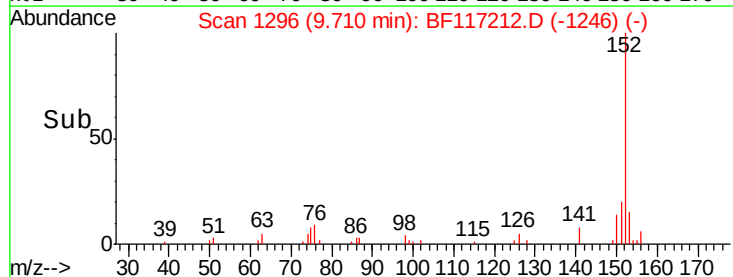
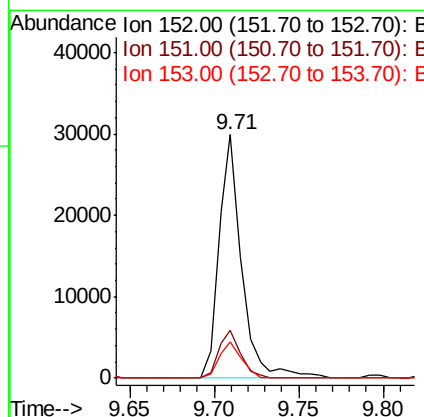
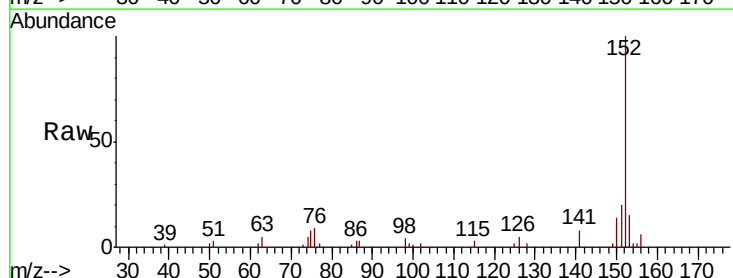
Manual Integrations
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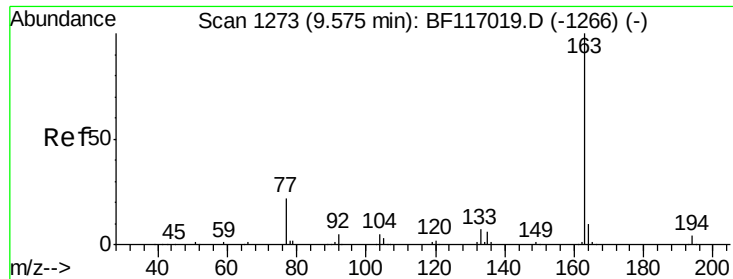
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#49
Acenaphthylene
Concen: 5.644 ng
RT: 9.71 min Scan# 1296
Delta R.T. -0.01 min
Lab File: BF117212.D
Acq: 23 Sep 2019 18:33

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	27954		
151	19.6		16.2	24.2
153	15.0		10.2	15.4





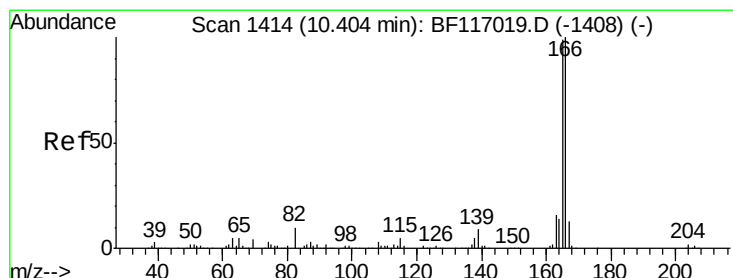
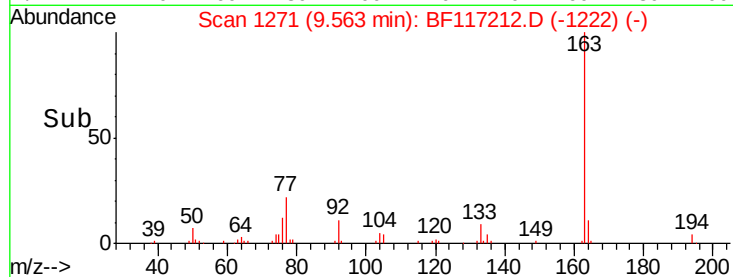
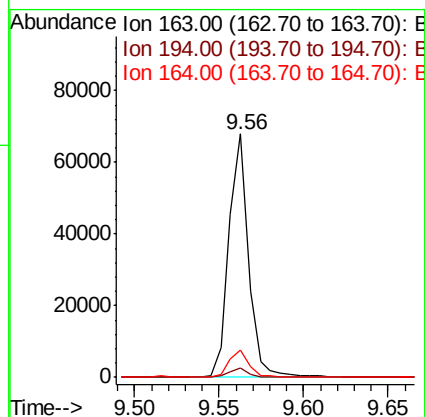
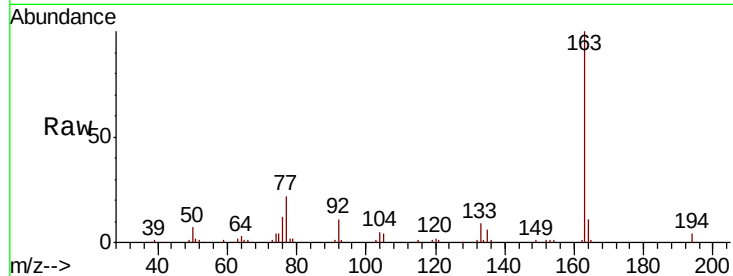
#50
Dimethylphthalate
Concen: 14.624 ng
RT: 9.56 min Scan# 1271
Delta R.T. -0.01 min
Lab File: BF117212.D
Acq: 23 Sep 2019 18:33

Instrument :
BNA_F
ClientSampleId :
SAND-STOCKPILE-2

Tot Ion:	163	Resp:	55298
Ion Ratio	Lower	Upper	
163	100		
194	3.9	2.9	4.3
164	11.1	8.2	12.4

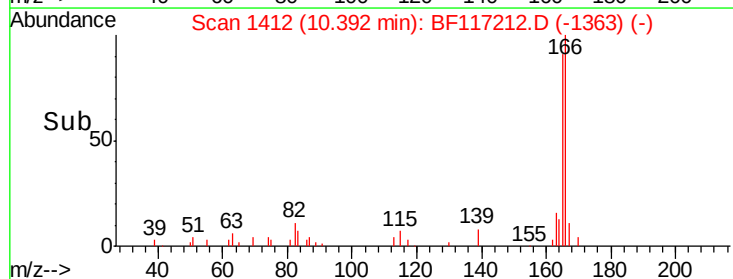
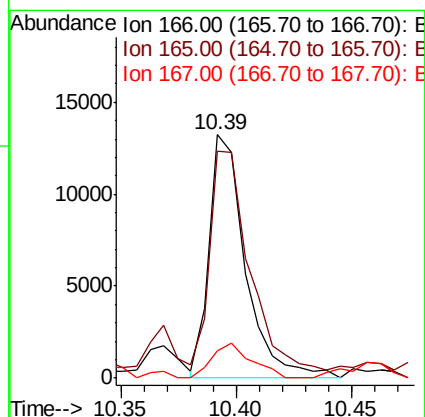
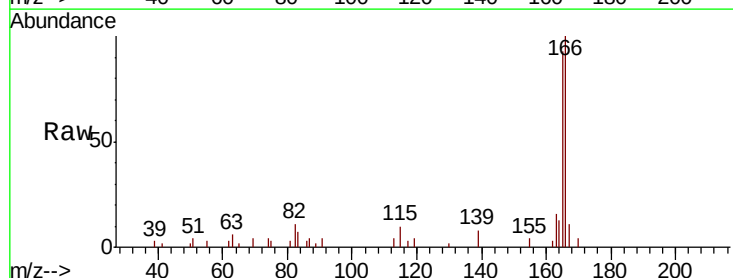
Manual Integrations
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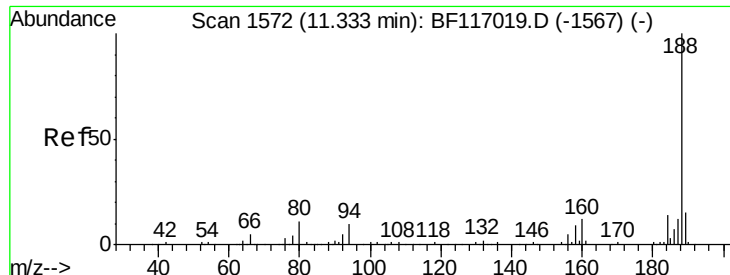
mohammad
9/24/2019 2:38:26 PM



#58
Fluorene
Concen: 4.151 ng
RT: 10.39 min Scan# 1412
Delta R.T. -0.01 min
Lab File: BF117212.D
Acq: 23 Sep 2019 18:33

Tgt Ion:	166	Resp:	14482
Ion Ratio	Lower	Upper	
166	100		
165	93.1	78.9	118.3
167	11.3	10.6	15.8





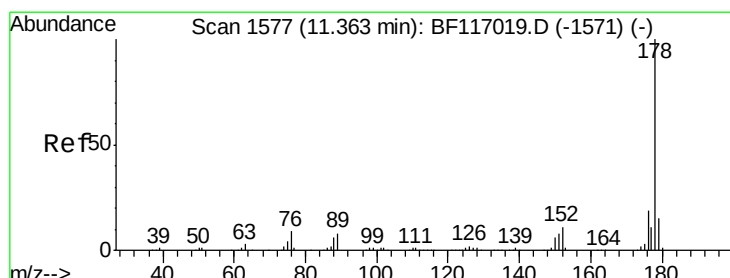
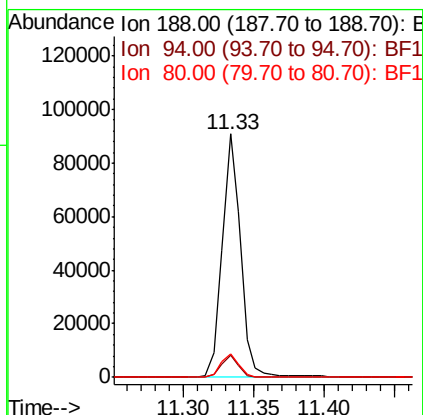
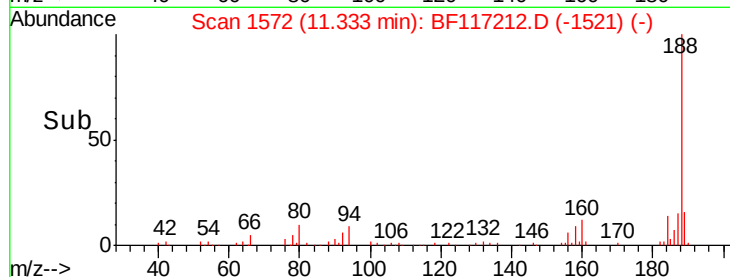
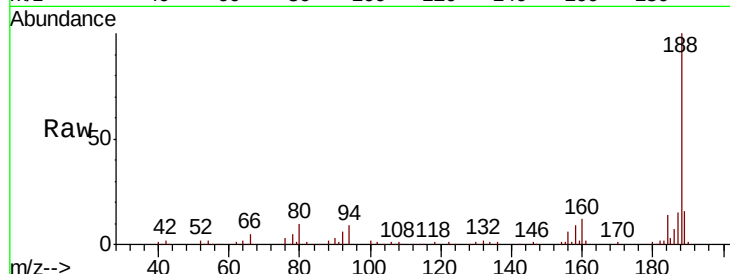
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: BF117212.D
 Acq: 23 Sep 2019 18:33

Instrument :
 BNA_F
 ClientSampleId :
 SAND-STOCKPILE-2

Tot Ion	Ratio	Resp	Lower	Upper
188	100	82752		
94	9.1		8.2	12.2
80	9.7		9.0	13.6

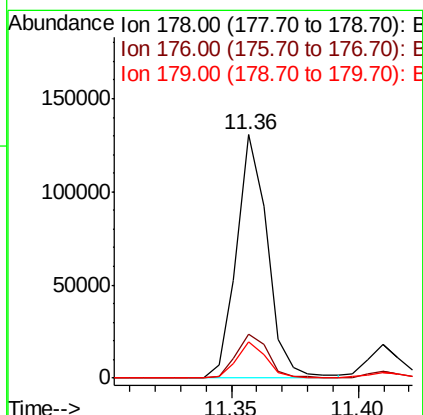
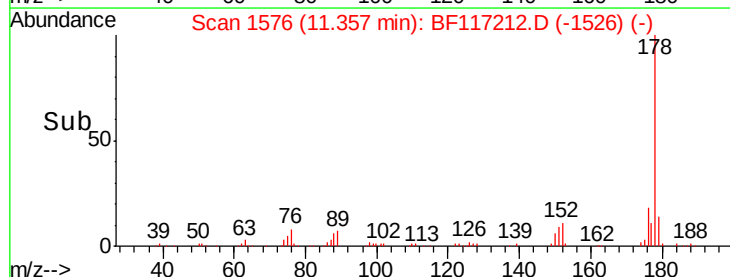
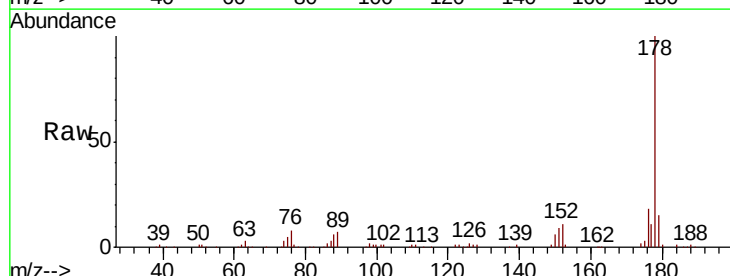
Manual Integrations
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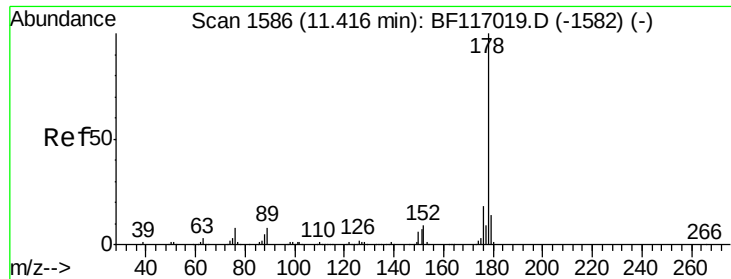
mohammad
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#71
 Phenanthrene
 Concen: 23.595 ng
 RT: 11.36 min Scan# 1576
 Delta R.T. -0.01 min
 Lab File: BF117212.D
 Acq: 23 Sep 2019 18:33

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	110904		
176	17.9		15.4	23.2
179	14.7		12.4	18.6





#72

Anthracene

Concen: 3.779 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.01 min

Lab File: BF117212.D

Acq: 23 Sep 2019 18:33

Instrument :

BNA_F

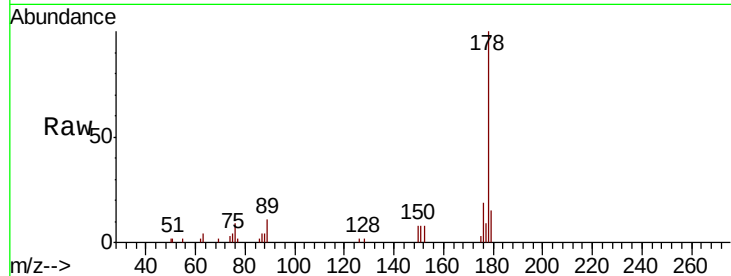
ClientSampleId :

SAND-STOCKPILE-2

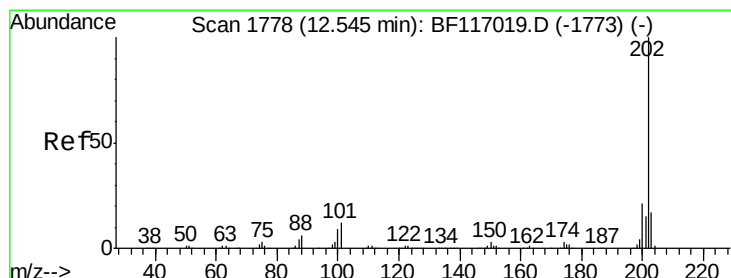
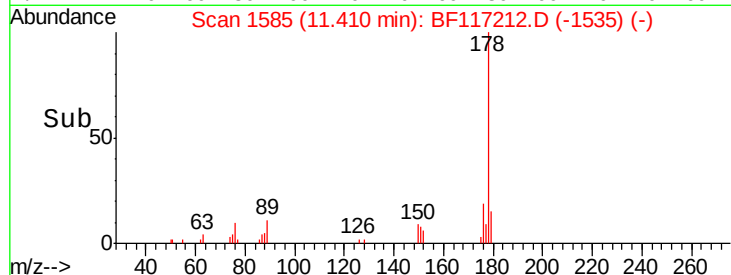
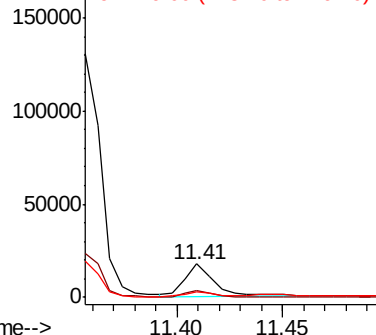
Tot Ion:	178	Resp:	18133
Ion Ratio	Lower	Upper	
178	100		
176	18.9	14.6	21.8
179	14.8	11.6	17.4

Manual Integrations
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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 15.144 ng

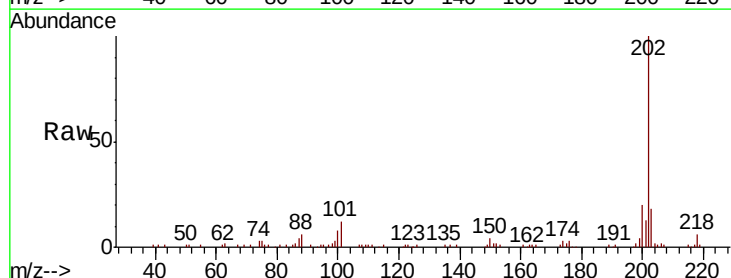
RT: 12.54 min Scan# 1778

Delta R.T. -0.00 min

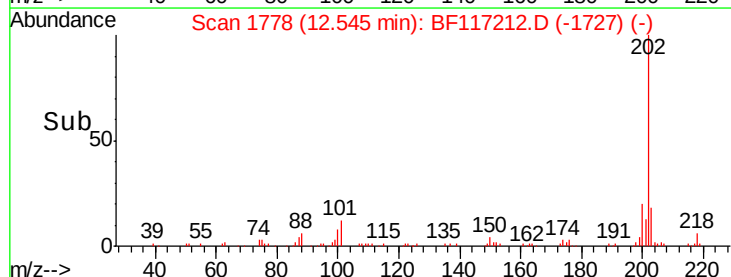
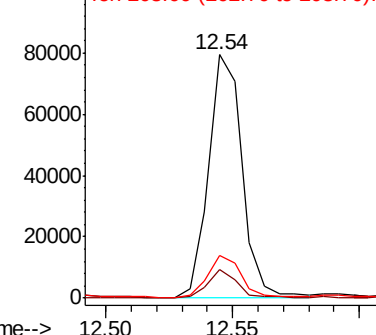
Lab File: BF117212.D

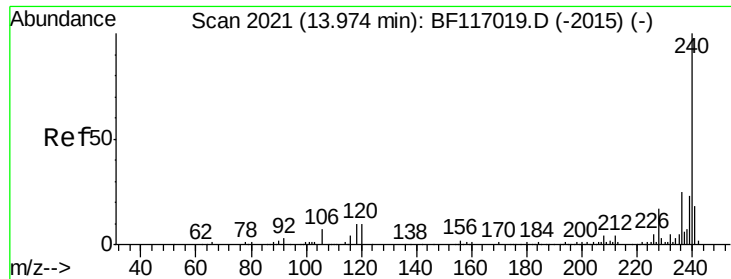
Acq: 23 Sep 2019 18:33

Tgt Ion:	202	Resp:	73137
Ion Ratio	Lower	Upper	
202	100		
101	11.7	0.0	32.3
203	17.7	0.0	37.1



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





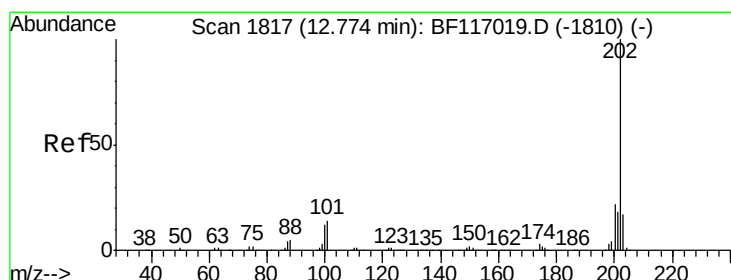
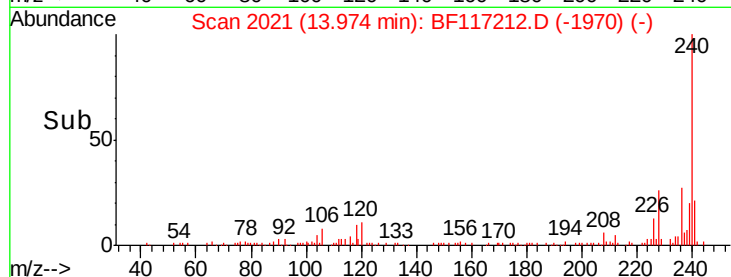
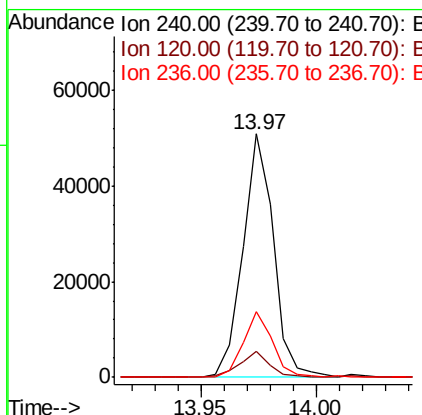
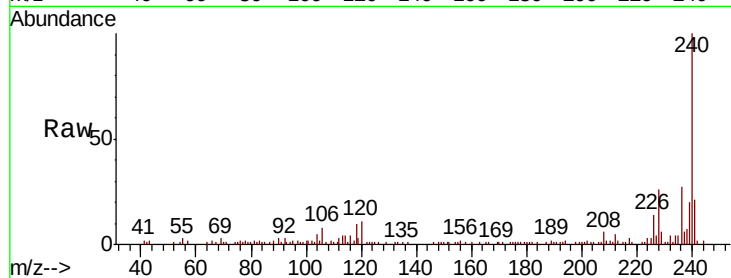
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.97 min Scan# 2021
Delta R.T. -0.00 min
Lab File: BF117212.D
Acq: 23 Sep 2019 18:33

Instrument :
BNA_F
ClientSampleId :
SAND-STOCKPILE-2

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.8	8.3	12.5
236	27.0	20.3	30.5

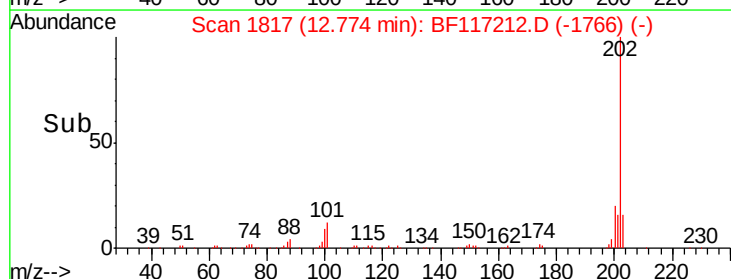
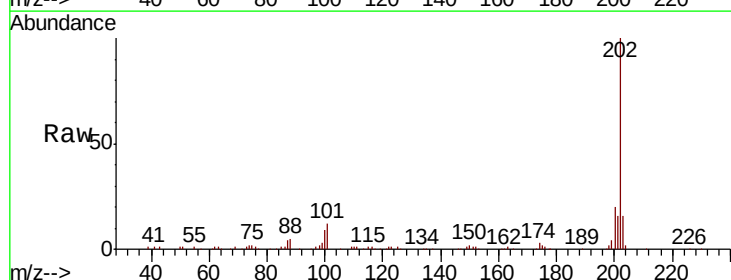
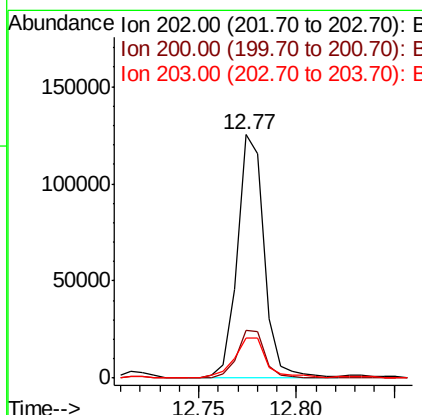
Manual Integrations
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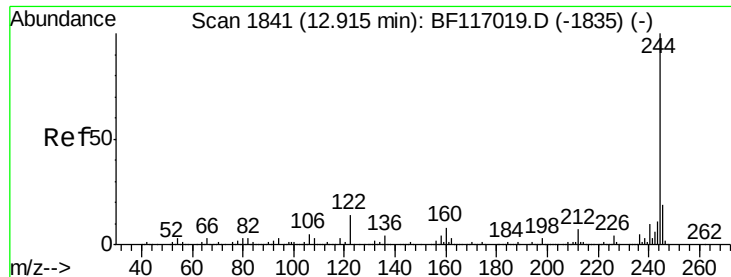
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#78
Pyrene
Concen: 29.808 ng
RT: 12.77 min Scan# 1817
Delta R.T. -0.00 min
Lab File: BF117212.D
Acq: 23 Sep 2019 18:33

Tgt Ion	Ratio	Lower	Upper
202	100		
200	19.8	17.2	25.8
203	16.5	14.0	21.0





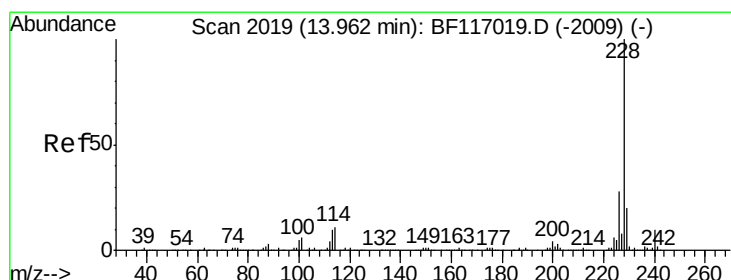
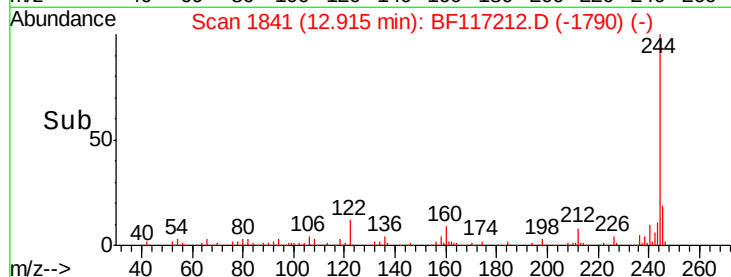
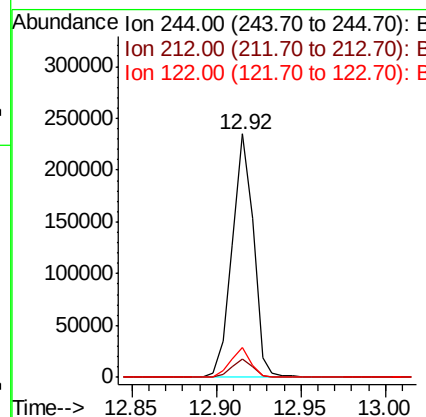
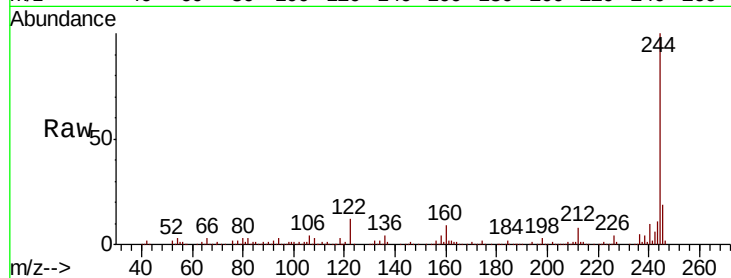
#79
 Terphenyl-d14
 Concen: 81.640 ng
 RT: 12.92 min Scan# 1841
 Delta R.T. -0.00 min
 Lab File: BF117212.D
 Acq: 23 Sep 2019 18:33

Instrument :
 BNA_F
 ClientSampleId :
 SAND-STOCKPILE-2

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.5	5.8	8.8
122	12.2	11.3	16.9

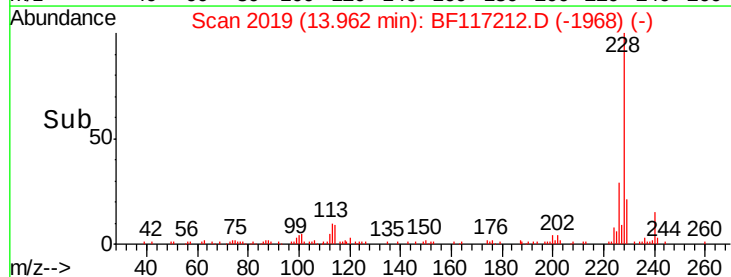
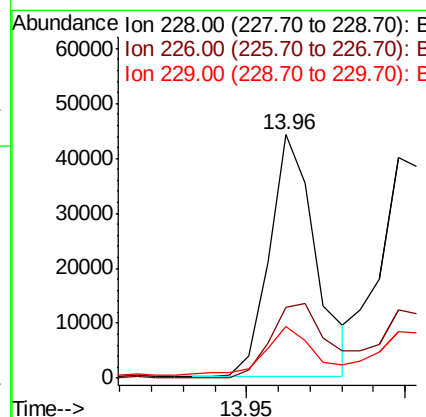
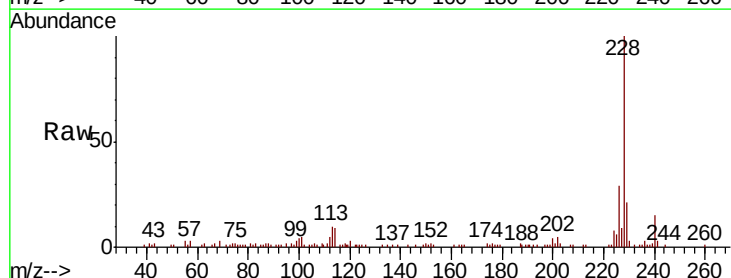
Manual Integrations
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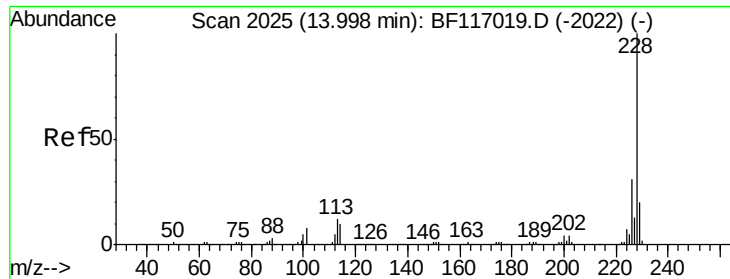
mohammad
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#81
 Benzo(a)anthracene
 Concen: 14.124 ng
 RT: 13.96 min Scan# 2019
 Delta R.T. -0.00 min
 Lab File: BF117212.D
 Acq: 23 Sep 2019 18:33

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.1	22.3	33.5
229	21.4	15.9	23.9





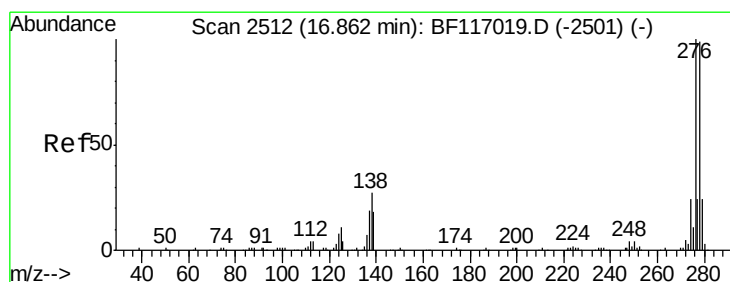
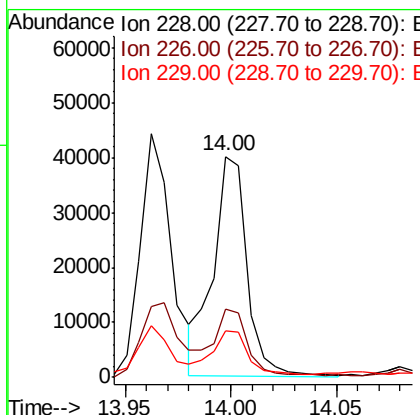
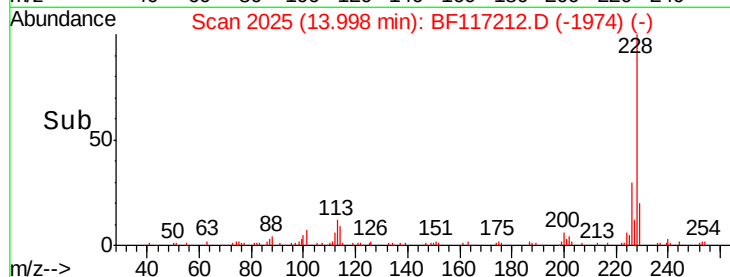
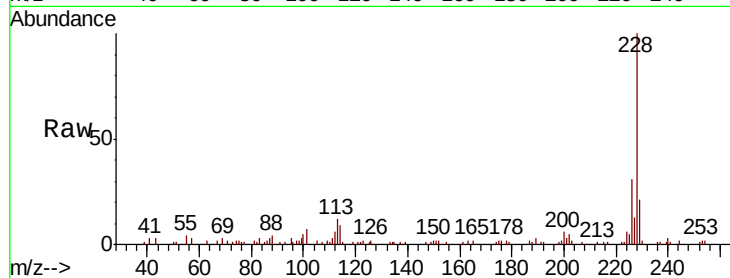
#83
Chrysene
Concen: 14.551 ng
RT: 14.00 min Scan# 2025
Delta R.T. -0.00 min
Lab File: BF117212.D
Acq: 23 Sep 2019 18:33

Instrument :
BNA_F
ClientSampleId :
SAND-STOCKPILE-2

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.8	37.2
229	20.9	15.8	23.8

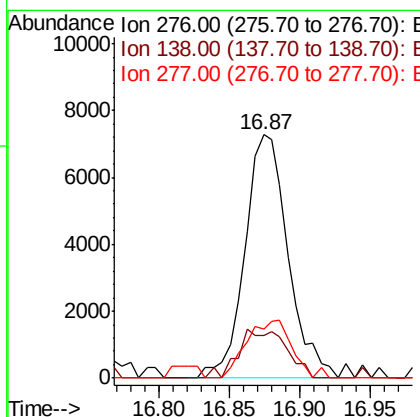
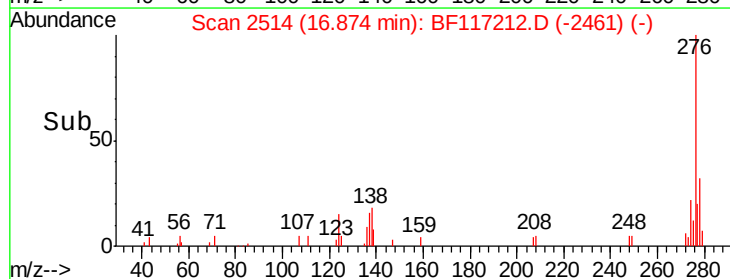
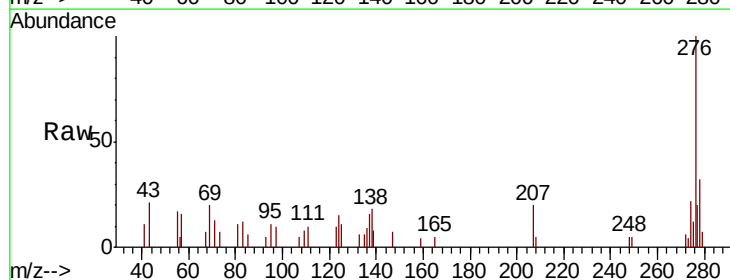
Manual Integrations
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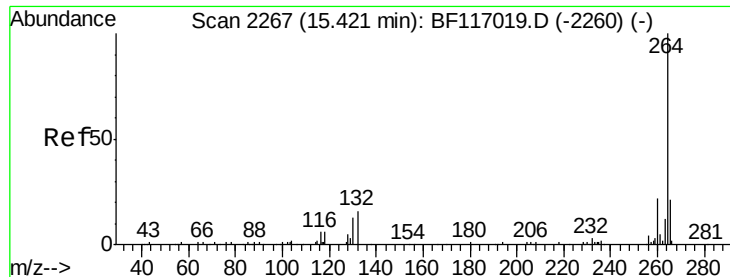
mohammad
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#86
Indeno(1,2,3-cd)pyrene
Concen: 6.961 ng
RT: 16.87 min Scan# 2514
Delta R.T. 0.01 min
Lab File: BF117212.D
Acq: 23 Sep 2019 18:33

Tgt Ion	Ratio	Lower	Upper
276	100		
138	0.0	20.7	31.1#
277	24.8	19.8	29.8





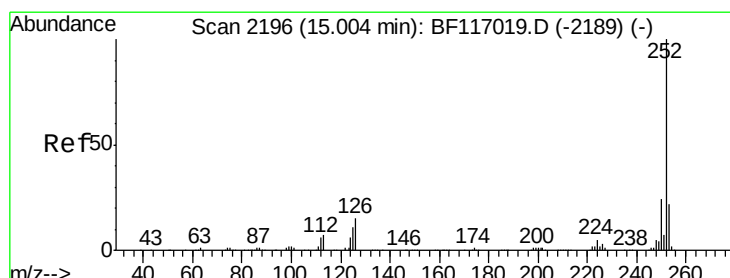
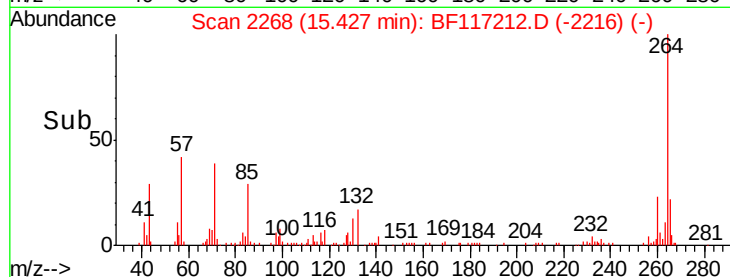
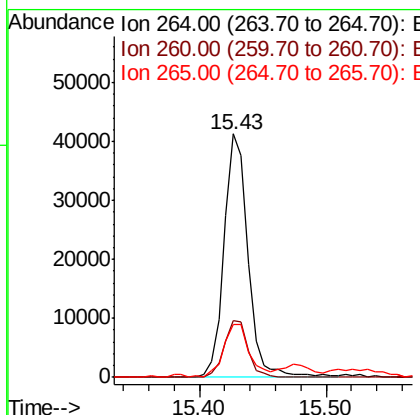
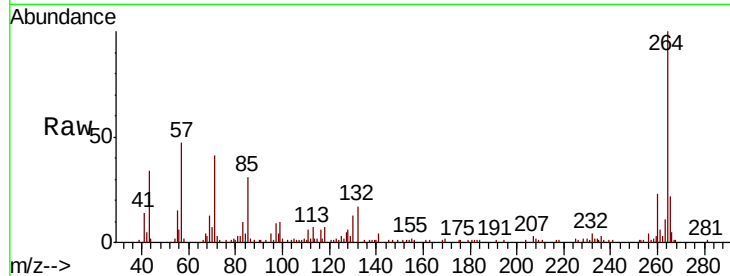
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.43 min Scan# 2268
Delta R.T. 0.01 min
Lab File: BF117212.D
Acq: 23 Sep 2019 18:33

Instrument :
BNA_F
ClientSampleId :
SAND-STOCKPILE-2

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.2	17.6	26.4
265	21.6	16.6	24.8

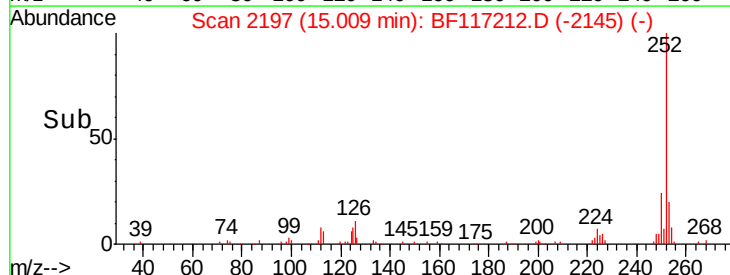
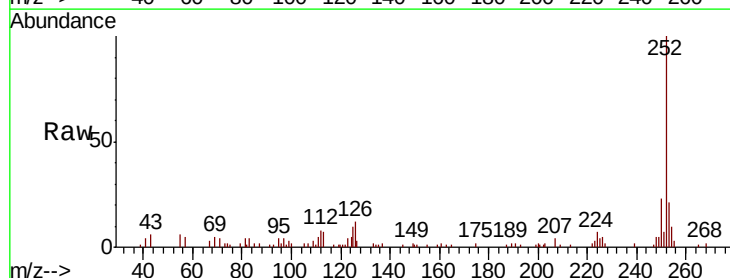
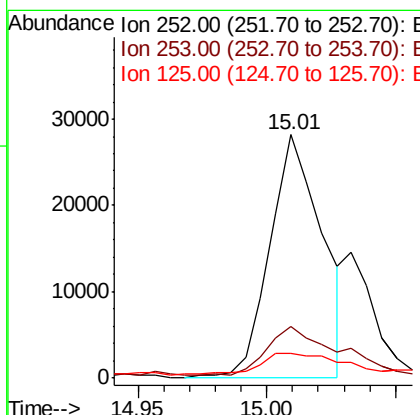
Manual Integrations
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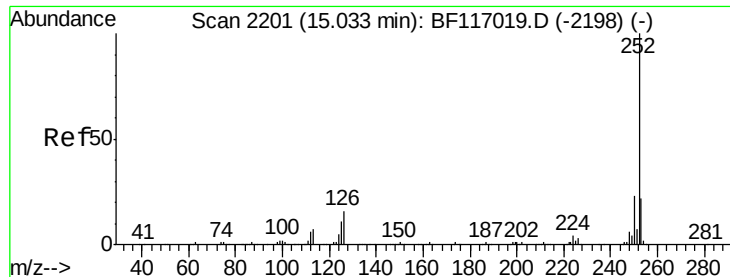
mohammad
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#88
Benzo(b)fluoranthene
Concen: 12.157 ng m
RT: 15.01 min Scan# 2197
Delta R.T. 0.01 min
Lab File: BF117212.D
Acq: 23 Sep 2019 18:33

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.0	17.6	26.4
125	9.9	8.6	12.8





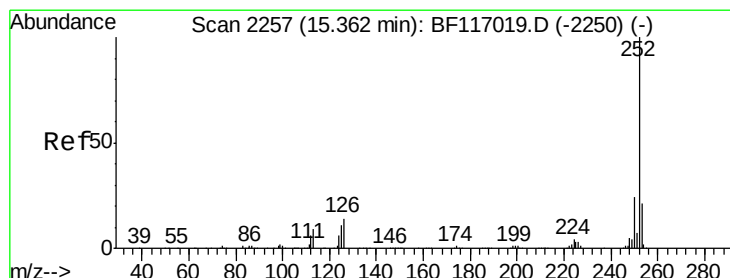
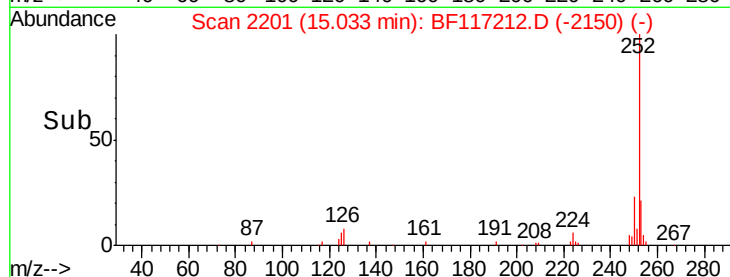
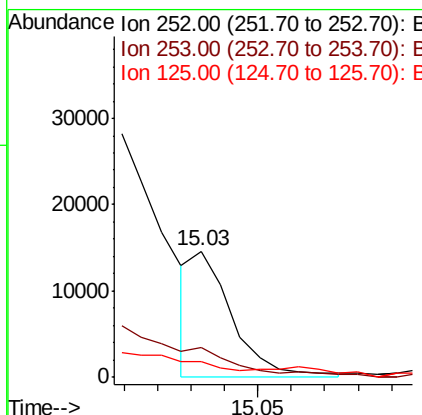
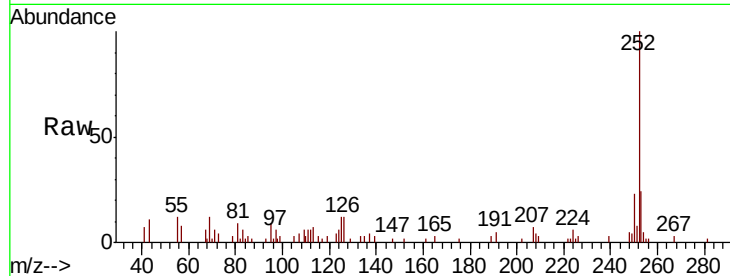
#89
Benzo(k)fluoranthene
Concen: 3.975 ng m
RT: 15.03 min Scan# 2201
Delta R.T. -0.00 min
Lab File: BF117212.D
Acq: 23 Sep 2019 18:33

Instrument :
BNA_F
ClientSampleId :
SAND-STOCKPILE-2

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.4	26.2
125	12.5	8.8	13.2

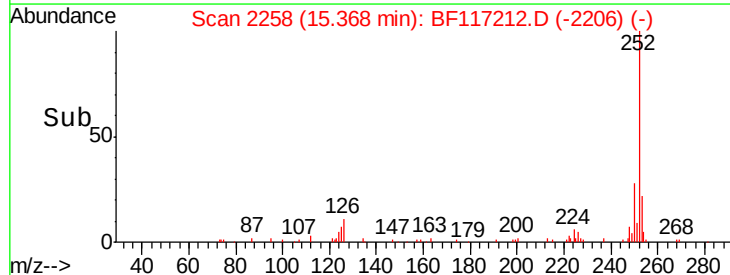
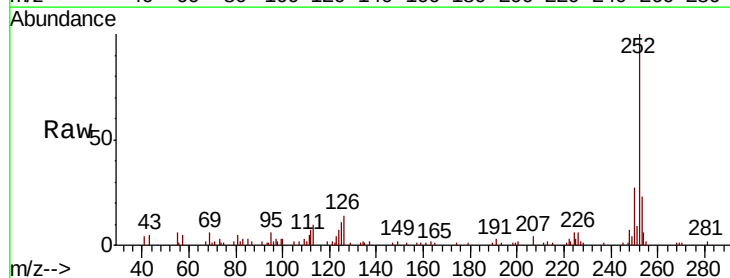
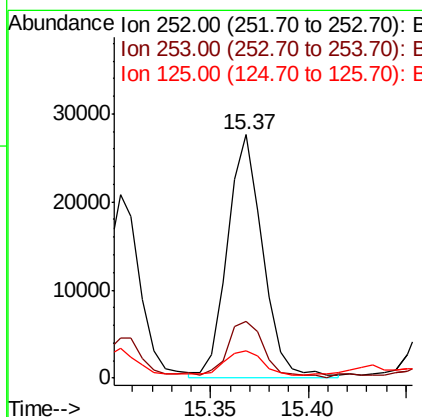
Manual Integrations
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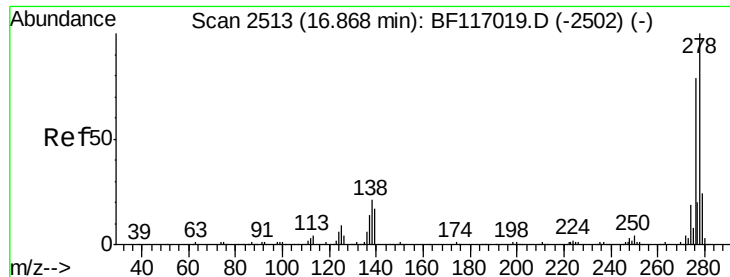
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#90
Benzo(a)pyrene
Concen: 12.152 ng
RT: 15.37 min Scan# 2258
Delta R.T. 0.01 min
Lab File: BF117212.D
Acq: 23 Sep 2019 18:33

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	16.6	25.0
125	11.2	8.9	13.3





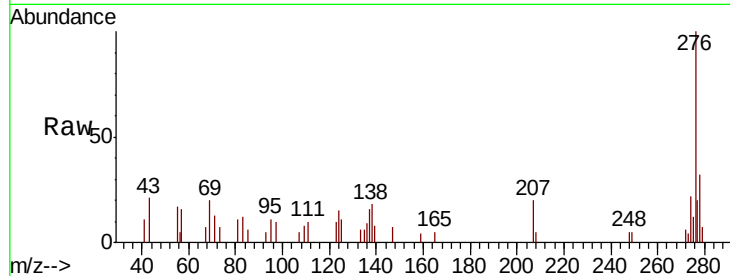
#91
Dibenzo(a,h)anthracene
Concen: 2.396 ng
RT: 16.87 min Scan# 2514
Delta R.T. 0.01 min
Lab File: BF117212.D
Acq: 23 Sep 2019 18:33

Instrument :
BNA_F
ClientSampleId :
SAND-STOCKPILE-2

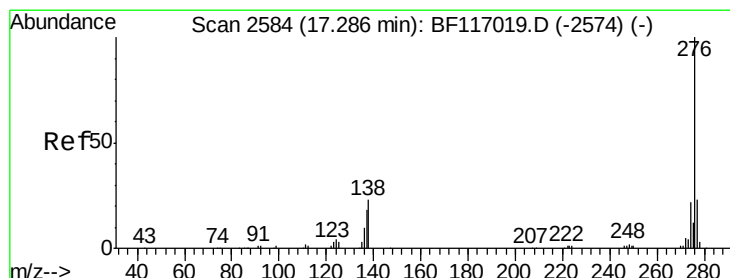
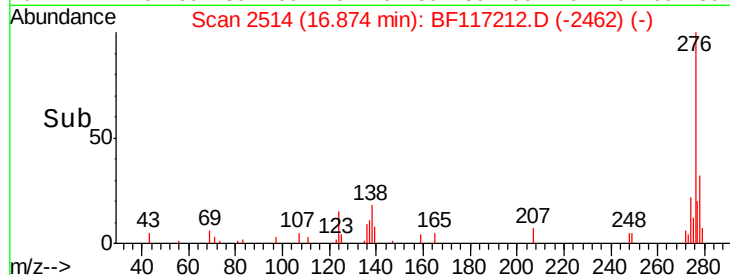
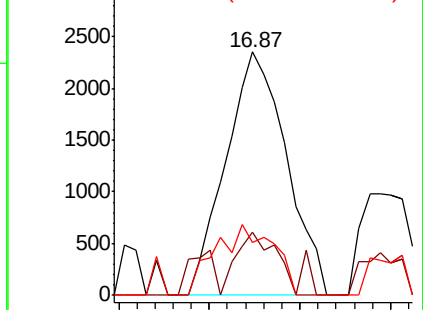
Tot Ion	Ratio	Lower	Upper
278	100		
139	26.1	13.5	20.3
279	21.8	18.8	28.2

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Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#92
Benzo(g,h,i)perylene
Concen: 6.883 ng
RT: 17.32 min Scan# 2589
Delta R.T. 0.03 min
Lab File: BF117212.D
Acq: 23 Sep 2019 18:33

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.8	18.6	27.8
138	18.3	18.0	27.0

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

