

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102819\
 Data File : BF117571.D
 Acq On : 28 Oct 2019 19:38
 Operator : JU
 Sample : K5502-17DL 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 177-44-(0-2.5)DL

Manual Integrations
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 10/30/2019 4:51:28 PM

Quant Time: Oct 29 17:47:54 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 18:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	36733	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	152678	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	75243	20.00	ng	-0.01
64) Phenanthrene-d10	11.24	188	105630	20.00	ng	0.00
76) Chrysene-d12	13.90	240	69781	20.00	ng	0.00
87) Perylene-d12	15.33	264	77791	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.35	112	103361	41.86	ng	0.00
7) Phenol-d6	6.38	99	152358	45.94	ng	0.00
23) Nitrobenzene-d5	7.29	82	98460	31.84	ng	-0.01
42) 2,4,6-Tribromophenol	10.56	330	24329	37.37	ng	0.00
45) 2-Fluorobiphenyl	9.08	172	158712	29.72	ng	-0.01
79) Terphenyl-d14	12.83	244	103894	24.28	ng	0.00

Target Compounds				Qvalue		
38) 1-Methylnaphthalene	8.82	142	9687	2.022	ng	# 96
49) Acenaphthylene	9.62	152	19070	2.764	ng	94
50) Dimethylphthalate	9.48	163	21150	3.943	ng	# 97
52) Acenaphthene	9.79	154	29008	6.854	ng	98
55) Dibenzofuran	9.97	168	30358	4.951	ng	98
58) Fluorene	10.31	166	43555	8.589	ng	97
71) Phenanthrene	11.27	178	663746	108.216	ng	99
72) Anthracene	11.32	178	135469	21.526	ng	98
73) Carbazole	11.49	167	44905	7.808	ng	100
75) Fluoranthene	12.47	202	923313	150.373	ng	99
78) Pyrene	12.70	202	793133	132.325	ng	98
81) Benzo(a)anthracene	13.89	228	398302	84.619	ng	99
83) Chrysene	13.93	228	349948	75.859	ng	97
86) Indeno(1,2,3-cd)pyrene	16.74	276	144787	42.038	ng	97
88) Benzo(b)fluoranthene	14.93	252	500068m	108.861	ng	
89) Benzo(k)fluoranthene	14.95	252	122304m	25.977	ng	
90) Benzo(a)pyrene	15.28	252	301303	72.141	ng	96
91) Dibenzo(a,h)anthracene	16.74	278	35771	9.905	ng	# 81
92) Benzo(a,h,i)perylene	17.17	276	124603	36.466	ng	98

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

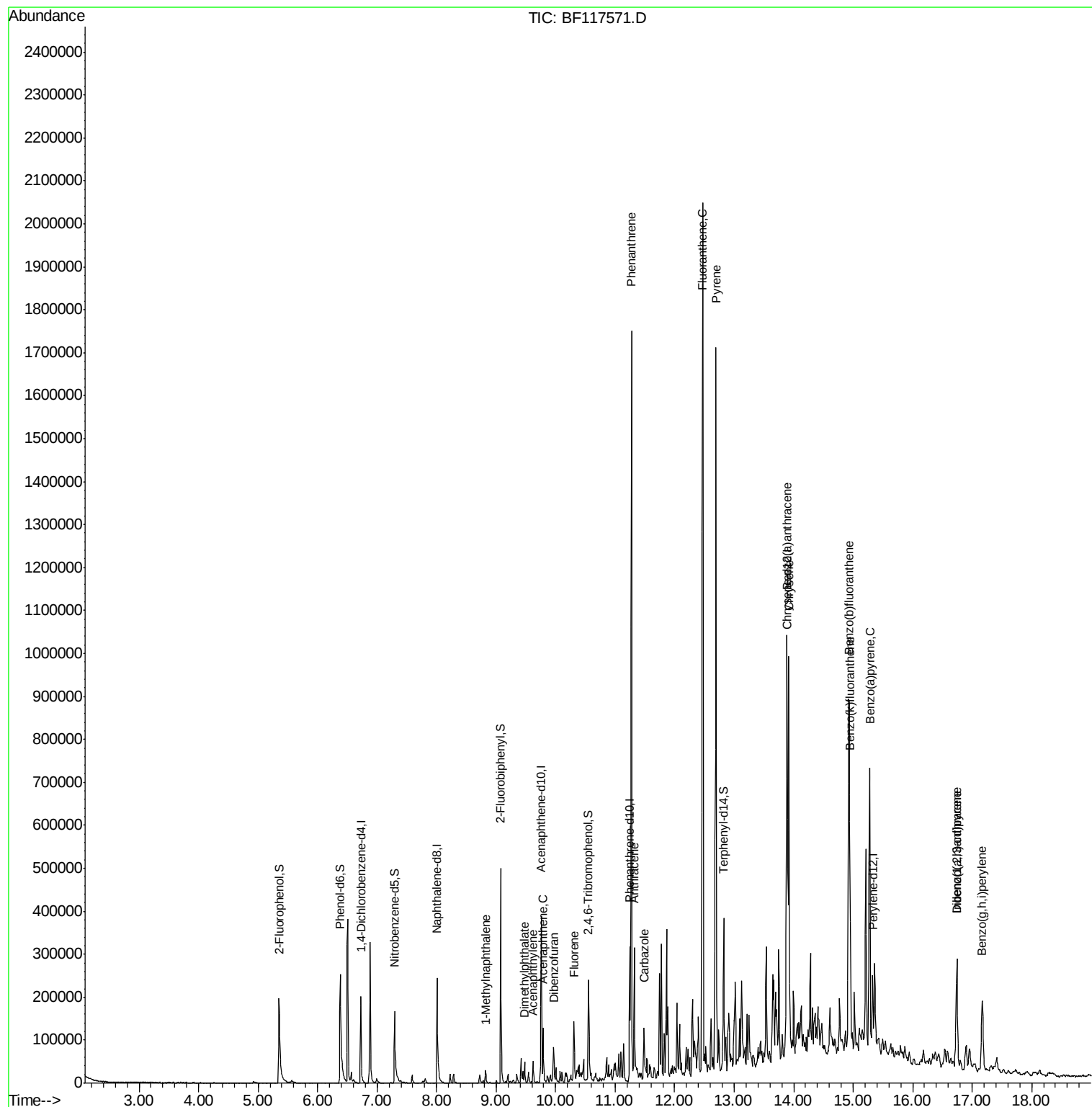
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102819\
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#1

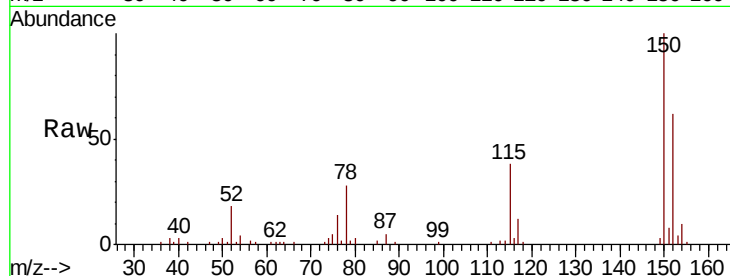
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF117571.D
Acq: 28 Oct 2019 19:38

Instrument :
BNA_F
ClientSampleId :
177-44-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	161.4	126.8	190.2
115	60.7	51.6	77.4

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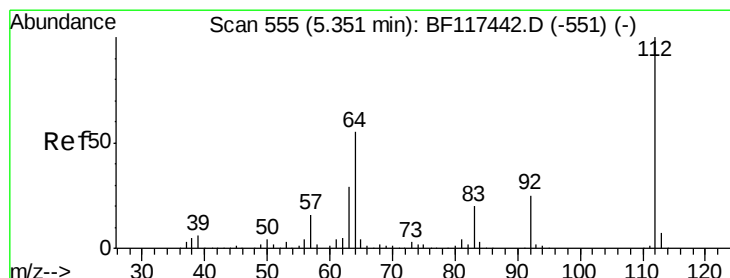
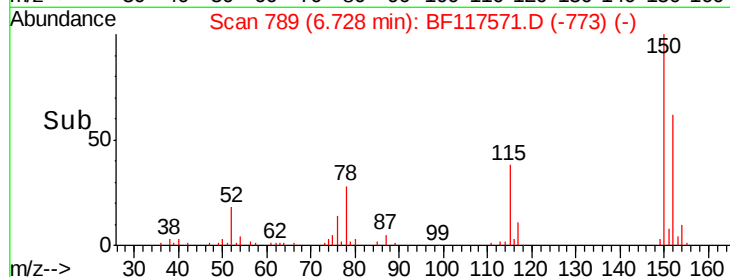
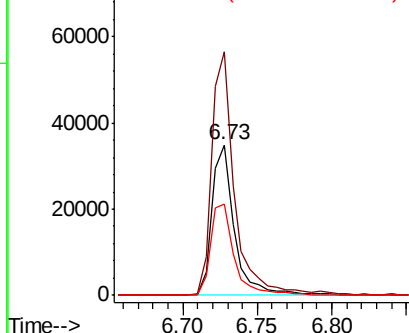


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

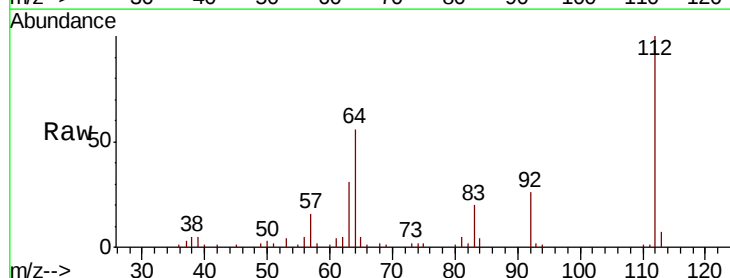
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 41.862 ng
RT: 5.35 min Scan# 555
Delta R.T. -0.00 min
Lab File: BF117571.D
Acq: 28 Oct 2019 19:38

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.5	44.1	66.1
63	30.6	23.4	35.2

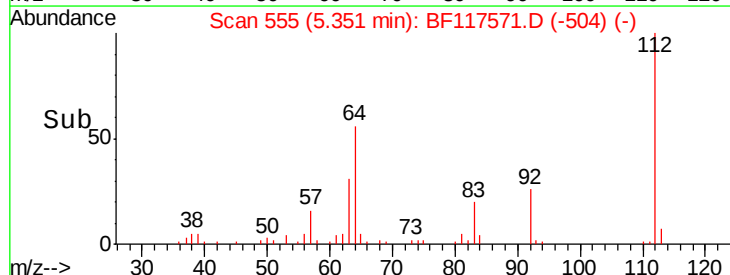
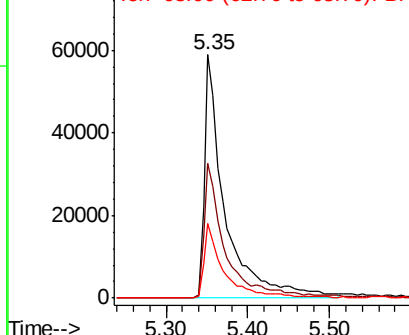


Abundance

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: 45.942 ng

RT: 6.38 min Scan# 730

Delta R.T. -0.00 min

Lab File: BF117571.D

Acq: 28 Oct 2019 19:38

Instrument :

BNA_F

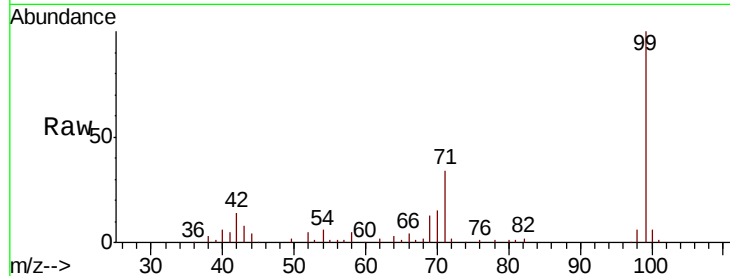
ClientSampleID :

177-44-(0-2.5)DL

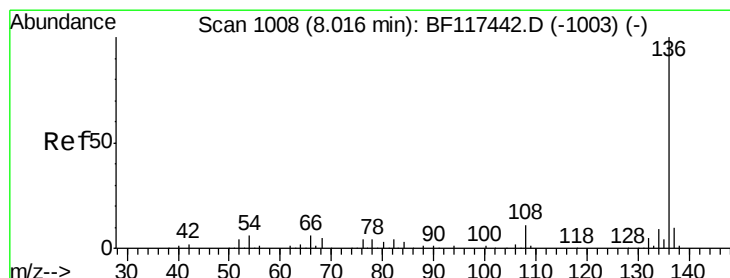
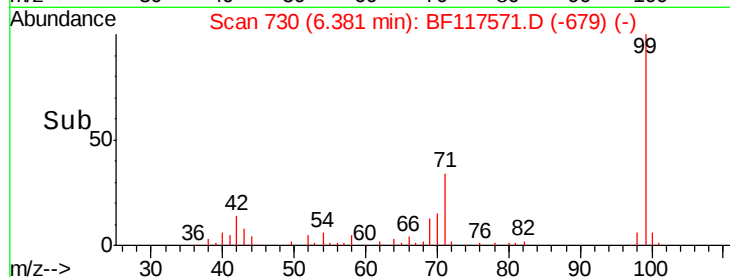
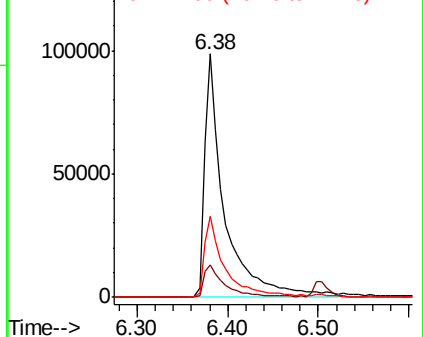
Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		152358		
42	13.6	12.8	19.2		
71	33.5	28.6	43.0		

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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: 8.01 min Scan# 1007

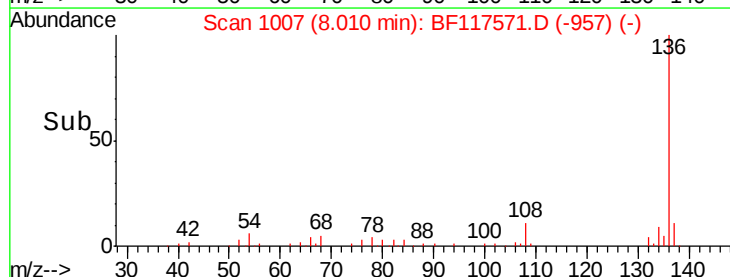
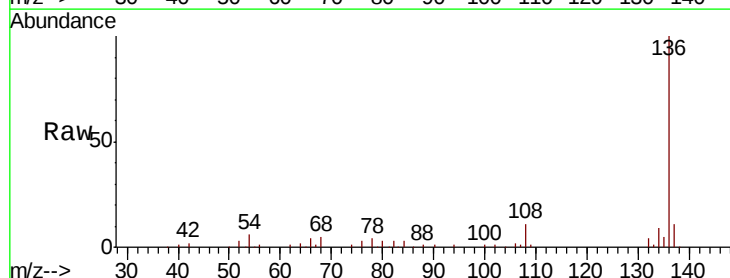
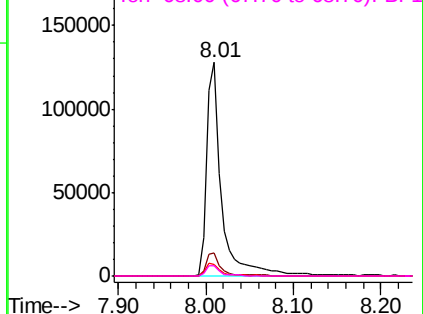
Delta R.T. -0.01 min

Lab File: BF117571.D

Acq: 28 Oct 2019 19:38

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		152678		
137	10.7	8.2	12.4		
54	5.6	4.5	6.7		
68	4.6	4.3	6.5		

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





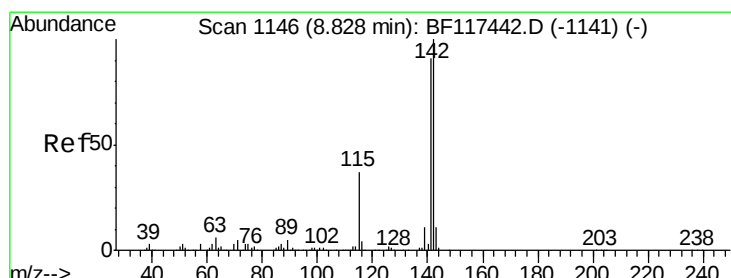
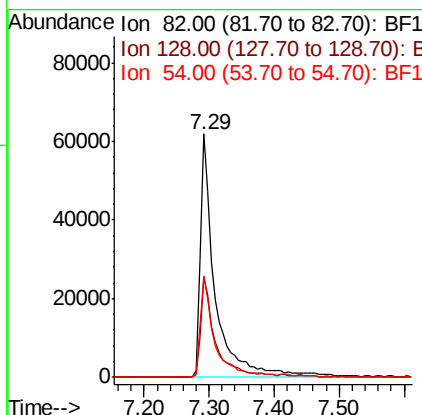
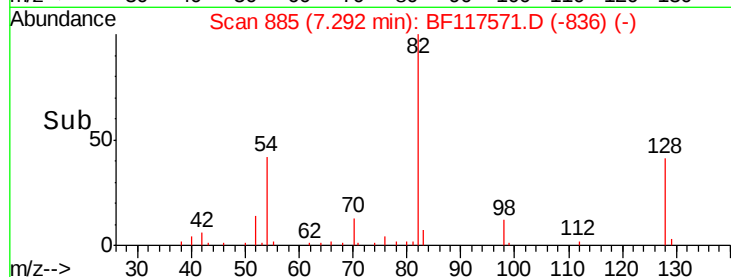
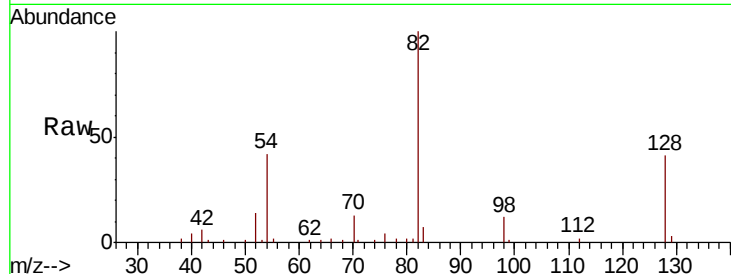
#23
Nitrobenzene-d5
Concen: 31.837 ng
RT: 7.29 min Scan# 885
Delta R.T. -0.01 min
Lab File: BF117571.D
Acq: 28 Oct 2019 19:38

Instrument :
BNA_F
ClientSampleId :
177-44-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	41.4	32.2	48.2
54	41.8	34.2	51.2

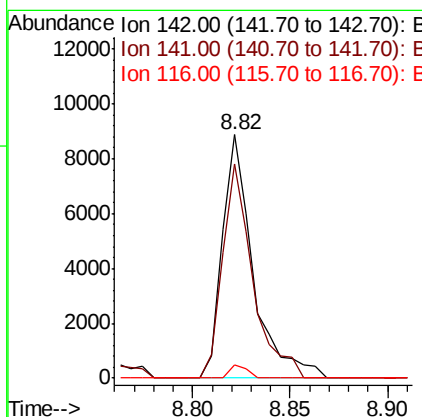
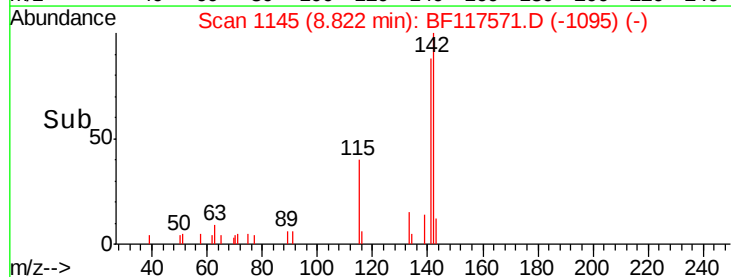
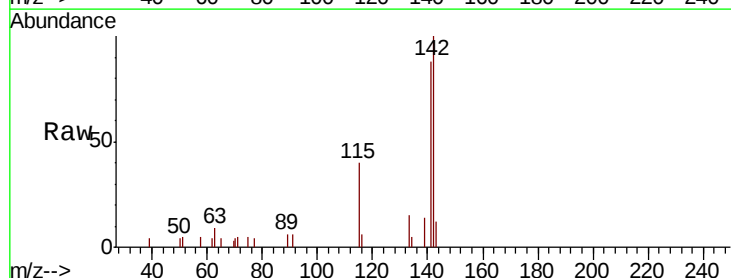
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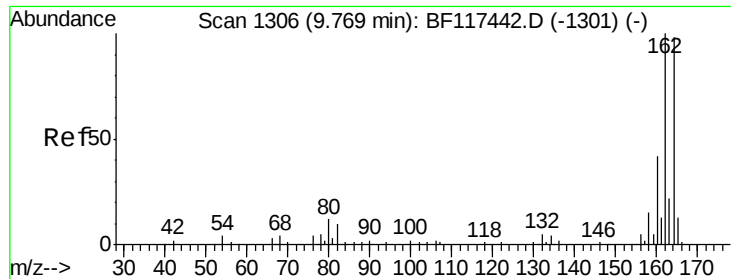
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#38
1-Methylnaphthalene
Concen: 2.022 ng
RT: 8.82 min Scan# 1145
Delta R.T. -0.01 min
Lab File: BF117571.D
Acq: 28 Oct 2019 19:38

Tgt Ion	Ratio	Lower	Upper
142	100		
141	87.8	73.3	109.9
116	5.6	3.1	4.7#





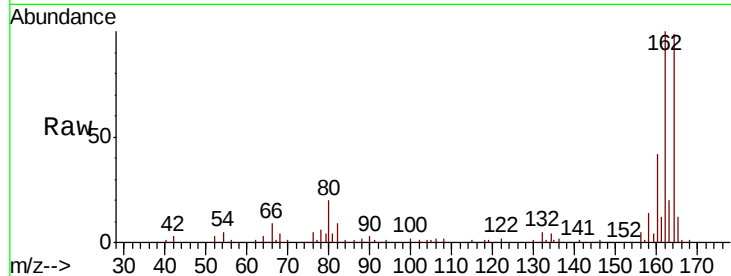
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.76 min Scan# 1304
 Delta R.T. -0.01 min
 Lab File: BF117571.D
 Acq: 28 Oct 2019 19:38

Instrument :
 BNA_F
 ClientSampleId :
 177-44-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.4	81.8	122.6
160	42.3	34.4	51.6

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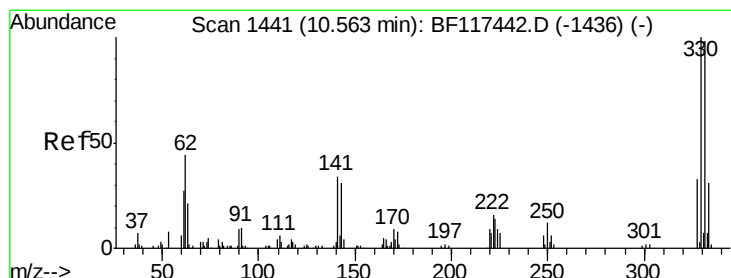
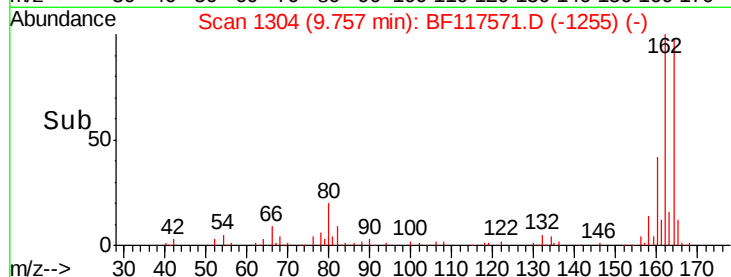
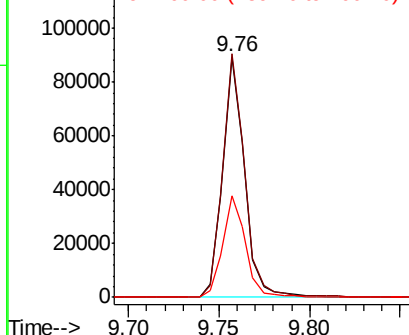


Abundance

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: 37.369 ng
 RT: 10.56 min Scan# 1440
 Delta R.T. -0.01 min
 Lab File: BF117571.D
 Acq: 28 Oct 2019 19:38

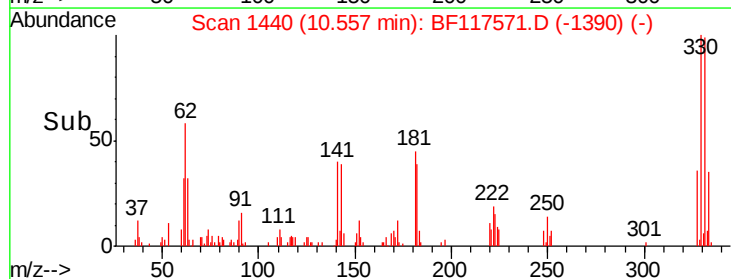
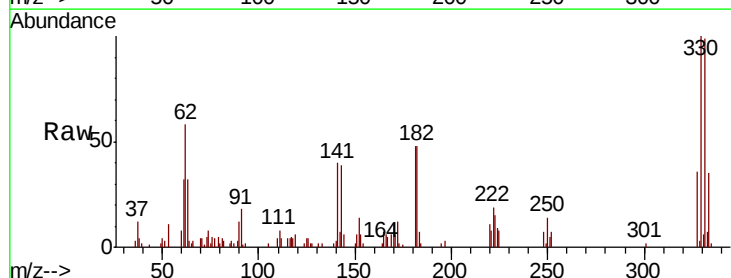
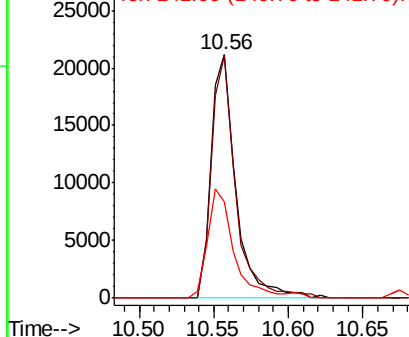
Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.3	78.5	117.7
141	48.3	37.0	55.6

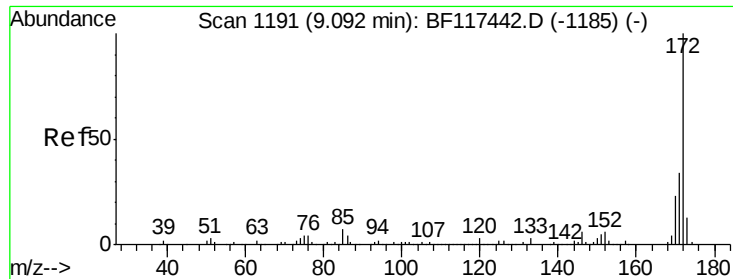
Abundance

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





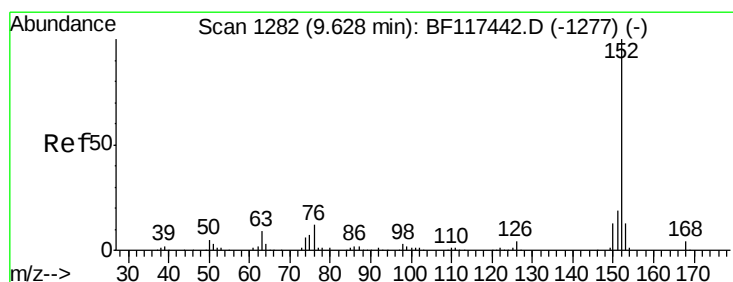
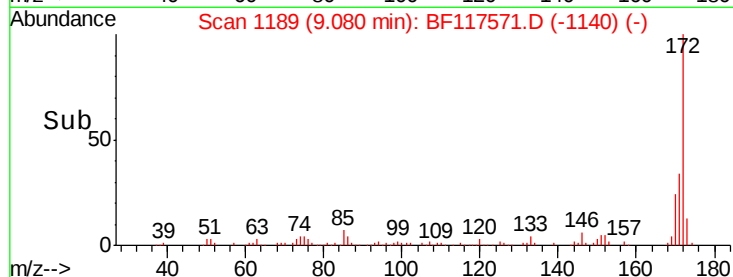
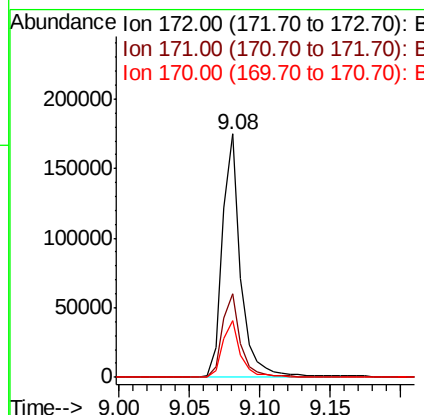
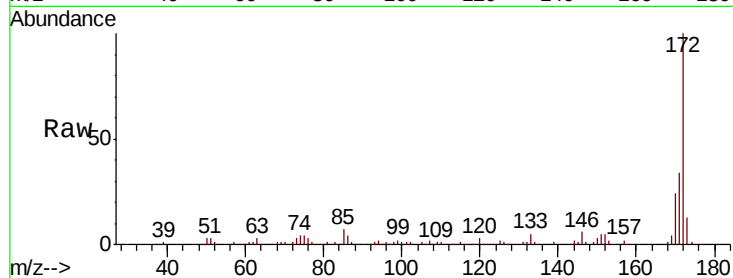
#45
2-Fluorobiphenyl
Concen: 29.720 ng
RT: 9.08 min Scan# 1189
Delta R.T. -0.01 min
Lab File: BF117571.D
Acq: 28 Oct 2019 19:38

Instrument :
BNA_F
ClientSampleId :
177-44-(0-2.5)DL

Tot Ion	Ratio	Resp	Lower	Upper
172	100	158712		
171	34.1		27.5	41.3
170	23.6		18.6	27.8

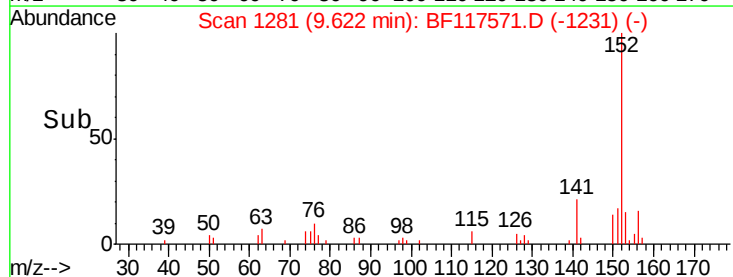
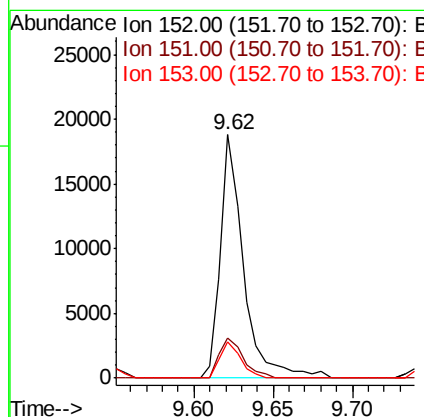
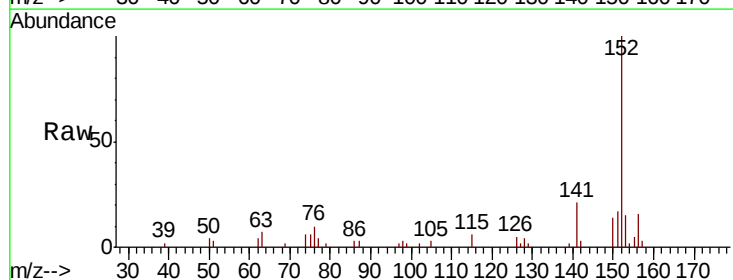
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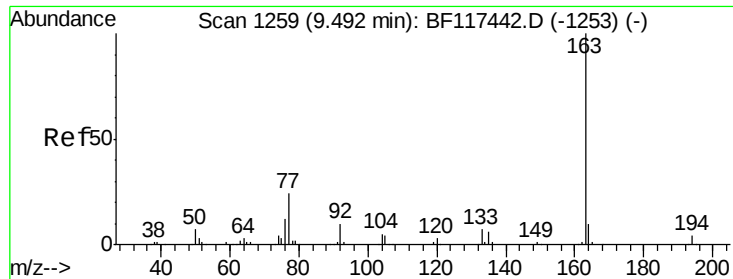
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#49
Acenaphthylene
Concen: 2.764 ng
RT: 9.62 min Scan# 1281
Delta R.T. -0.01 min
Lab File: BF117571.D
Acq: 28 Oct 2019 19:38

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	19070		
151	16.6		15.4	23.0
153	15.0		10.3	15.5





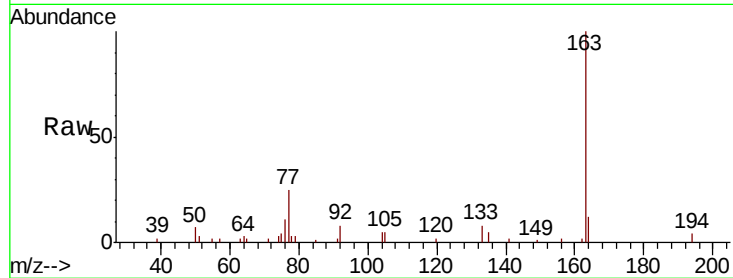
#50
Dimethylphthalate
Concen: 3.943 ng
RT: 9.48 min Scan# 1257
Delta R.T. -0.01 min
Lab File: BF117571.D
Acq: 28 Oct 2019 19:38

Instrument :
BNA_F
ClientSampleId :
177-44-(0-2.5)DL

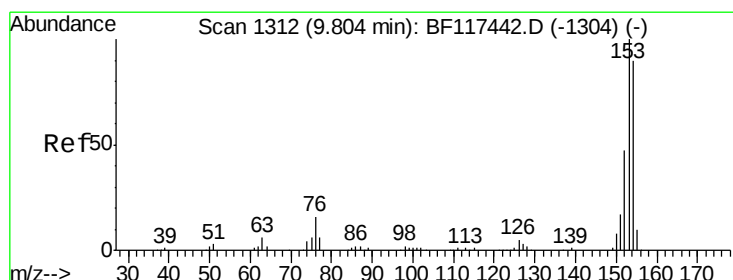
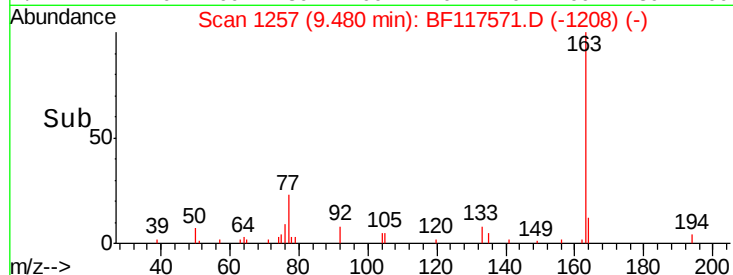
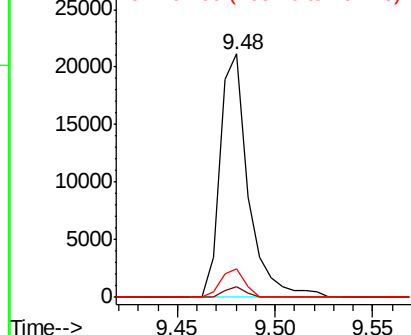
Tot Ion	Ratio	Resp	Lower	Upper
163	100	21150		
194	4.3	2.9	4.3#	
164	11.5	8.2	12.2	

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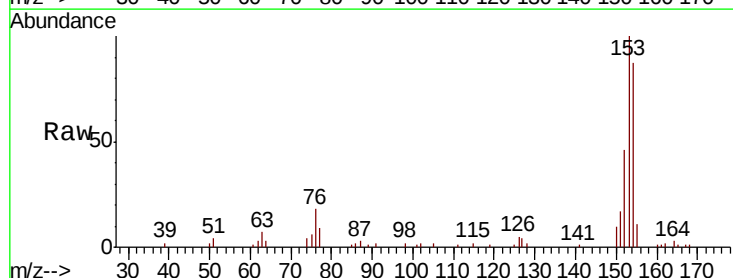


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

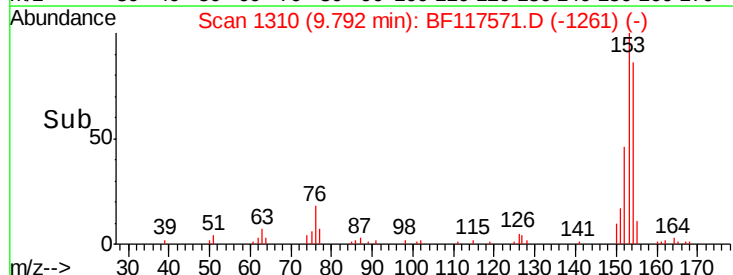
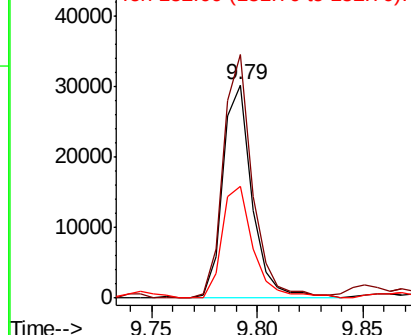


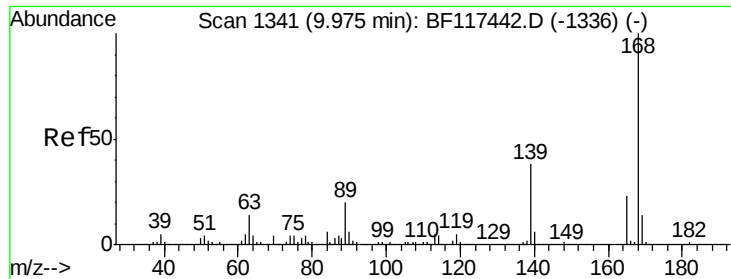
#52
Acenaphthene
Concen: 6.854 ng
RT: 9.79 min Scan# 1310
Delta R.T. -0.01 min
Lab File: BF117571.D
Acq: 28 Oct 2019 19:38

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	29008		
153	114.3	89.2	133.8	
152	52.6	41.8	62.6	



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





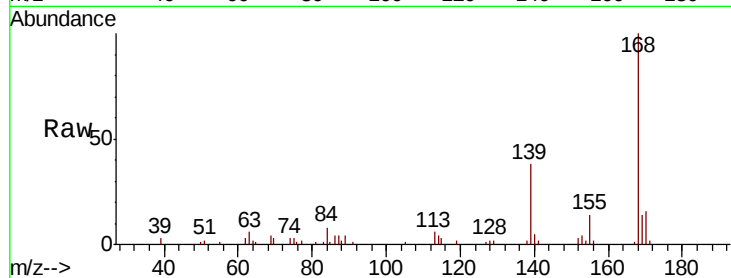
#55
Dibenzofuran
Concen: 4.951 ng
RT: 9.97 min Scan# 1340
Delta R.T. -0.01 min
Lab File: BF117571.D
Acq: 28 Oct 2019 19:38

Instrument :
BNA_F
ClientSampleId :
177-44-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
168	100		
139	38.1	31.8	47.6
169	14.2	11.2	16.8

Manual Integrations
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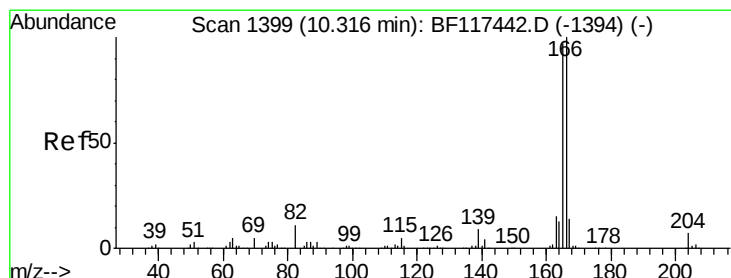
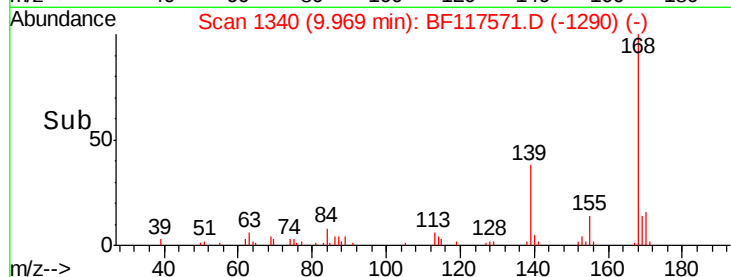
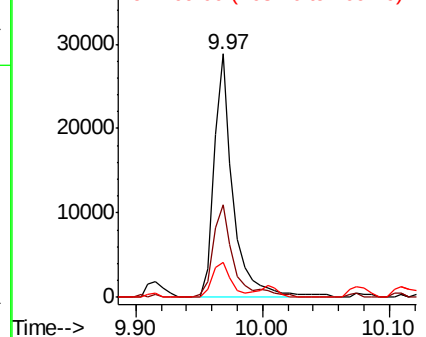


Abundance

Ion 168.00 (167.70 to 168.70): E

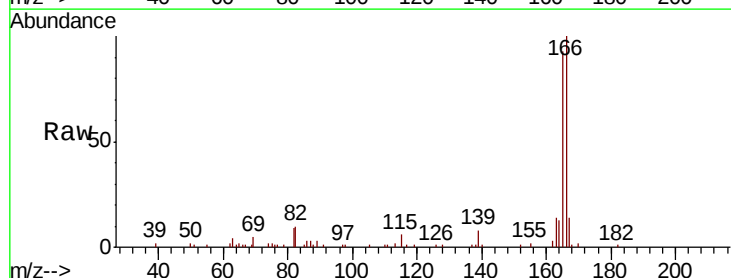
Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#58
Fluorene
Concen: 8.589 ng
RT: 10.31 min Scan# 1398
Delta R.T. -0.01 min
Lab File: BF117571.D
Acq: 28 Oct 2019 19:38

Tgt Ion	Ratio	Lower	Upper
166	100		
165	93.5	77.6	116.4
167	14.2	11.0	16.4

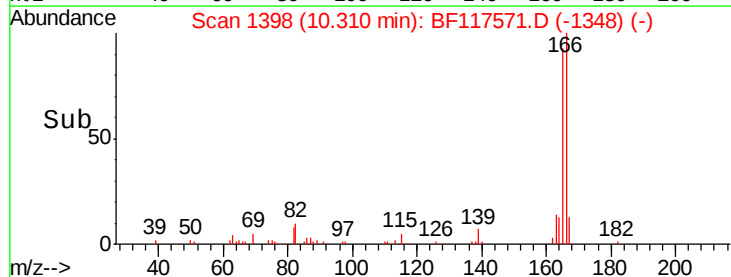
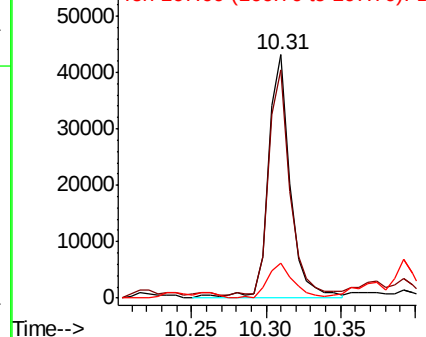


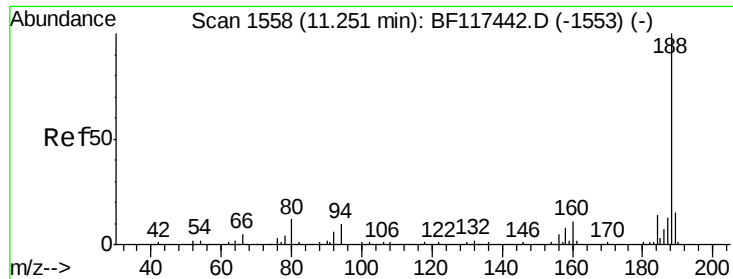
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





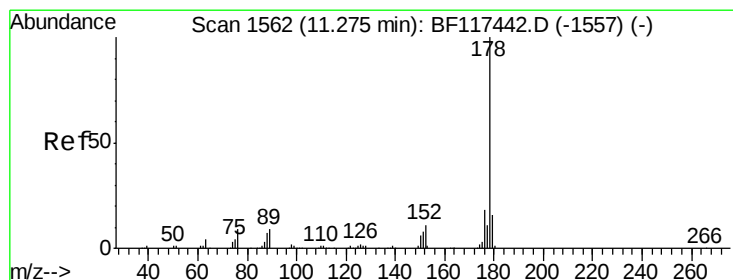
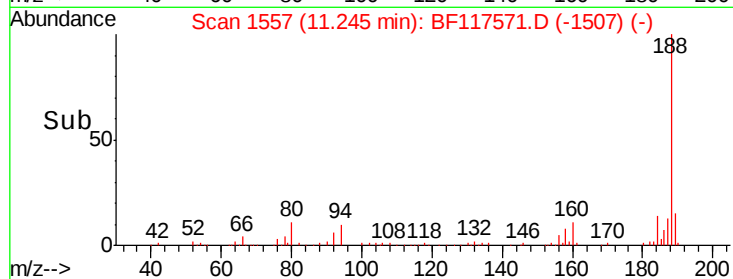
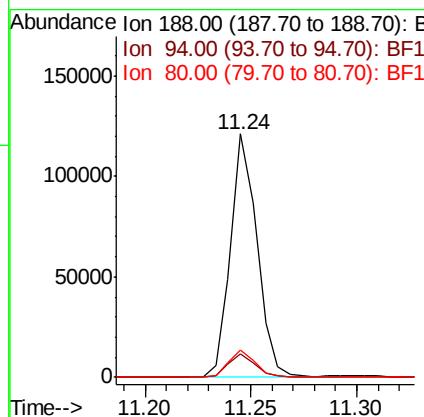
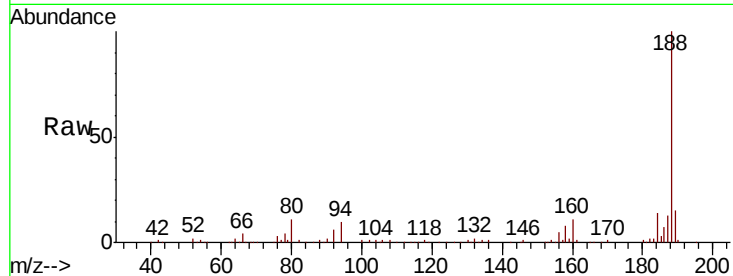
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.24 min Scan# 1557
 Delta R.T. -0.01 min
 Lab File: BF117571.D
 Acq: 28 Oct 2019 19:38

Instrument :
 BNA_F
 ClientSampleId :
 177-44-(0-2.5)DL

Tot Ion:	188	Resp:	105630
Ion Ratio	Lower	Upper	
188	100		
94	9.7	8.0	12.0
80	11.3	9.5	14.3

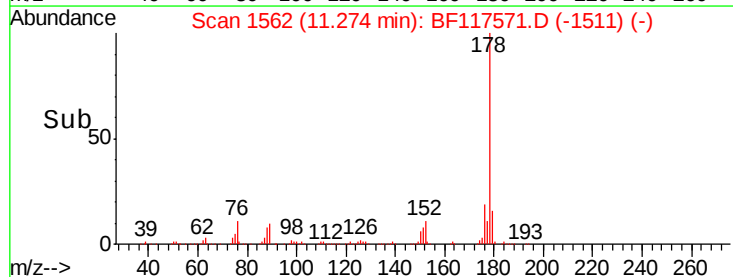
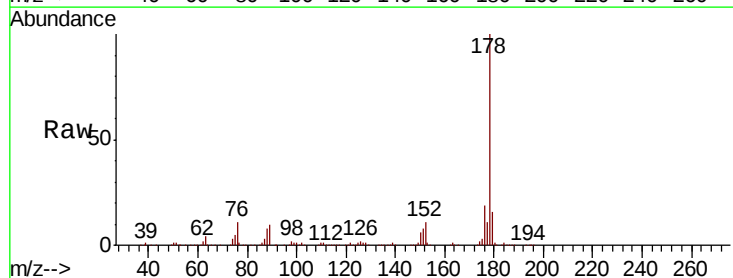
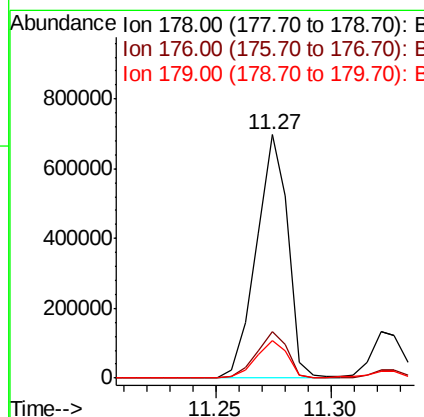
Manual Integrations
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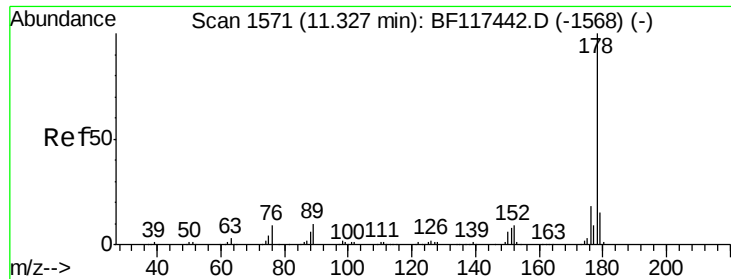
mohammad
 10/30/2019 4:51:28 PM



#71
 Phenanthrene
 Concen: 108.216 ng
 RT: 11.27 min Scan# 1562
 Delta R.T. -0.00 min
 Lab File: BF117571.D
 Acq: 28 Oct 2019 19:38

Tgt Ion:	178	Resp:	663746
Ion Ratio	Lower	Upper	
178	100		
176	19.2	14.6	22.0
179	15.6	12.6	19.0





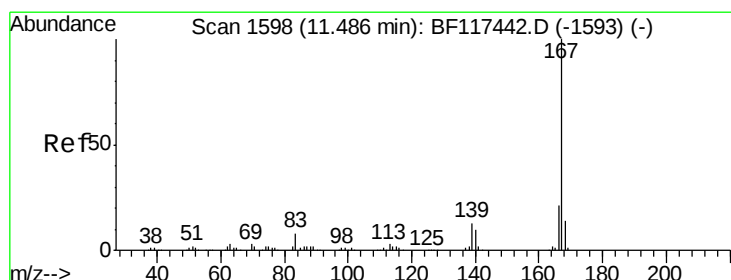
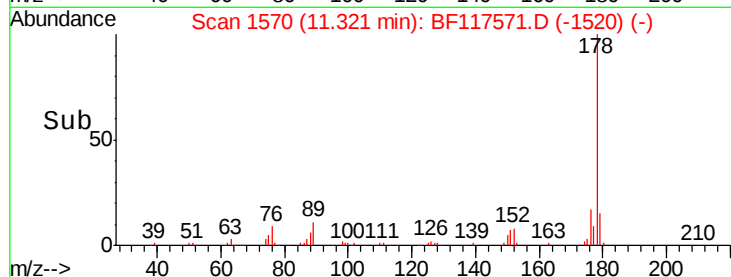
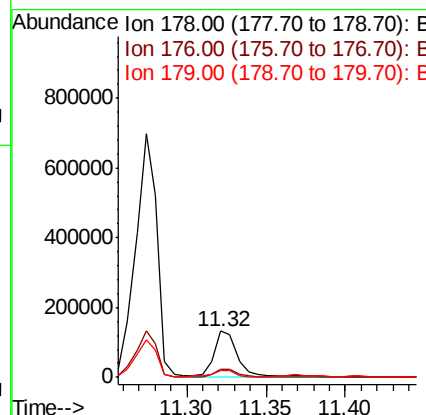
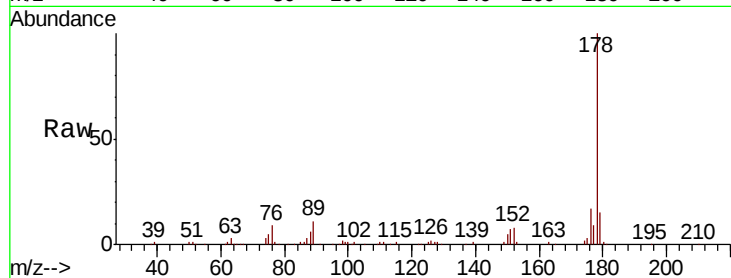
#72
 Anthracene
 Concen: 21.526 ng
 RT: 11.32 min Scan# 1570
 Delta R.T. -0.01 min
 Lab File: BF117571.D
 Acq: 28 Oct 2019 19:38

Instrument :
 BNA_F
 ClientSampleId :
 177-44-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	17.3	14.7	22.1
179	15.4	12.2	18.2

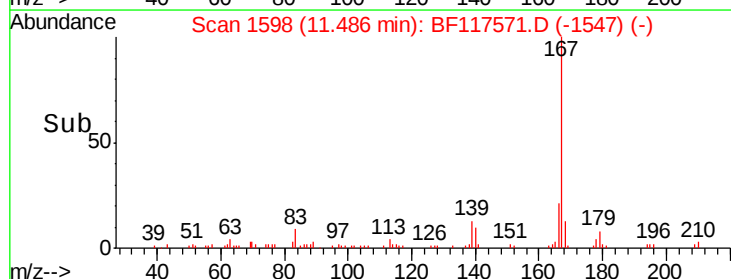
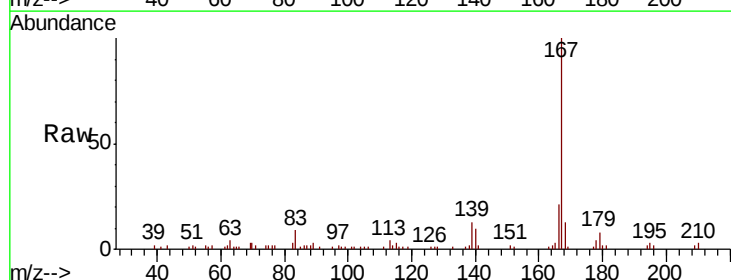
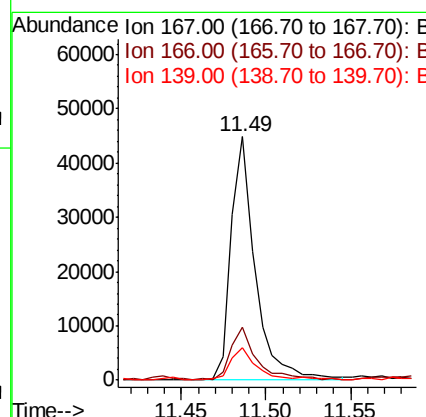
Manual Integrations
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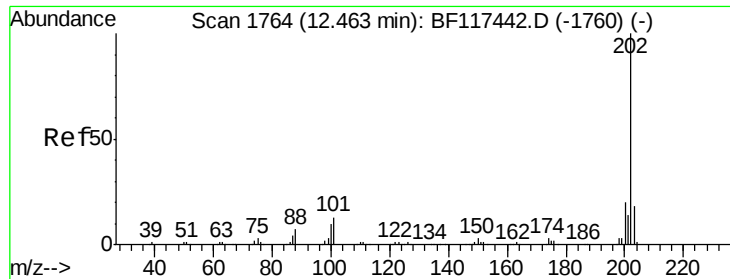
mohammad
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#73
 Carbazole
 Concen: 7.808 ng
 RT: 11.49 min Scan# 1598
 Delta R.T. -0.00 min
 Lab File: BF117571.D
 Acq: 28 Oct 2019 19:38

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.0	25.6
139	13.1	10.6	16.0





#75

Fluoranthene

Concen: 150.373 ng

RT: 12.47 min Scan# 1766

Delta R.T. 0.01 min

Lab File: BF117571.D

Acq: 28 Oct 2019 19:38

Instrument :

BNA_F

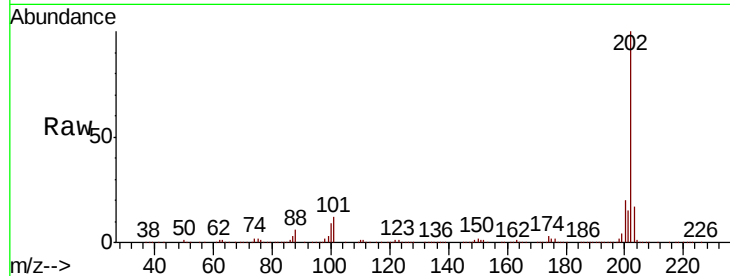
ClientSampleId :

177-44-(0-2.5)DL

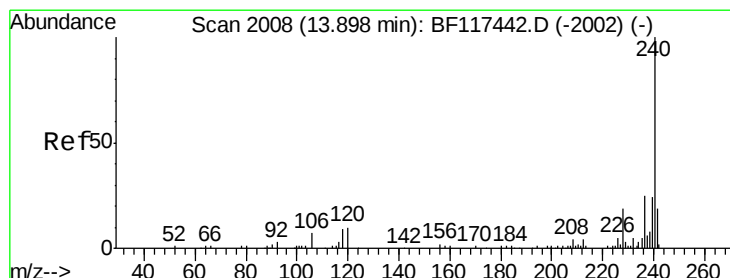
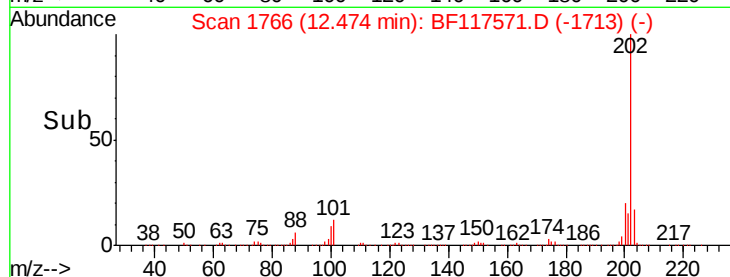
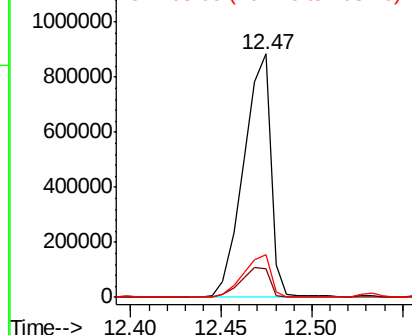
Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	11.8	0.0	32.7
203	17.5	0.0	37.6

Manual Integrations
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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: 13.90 min Scan# 2008

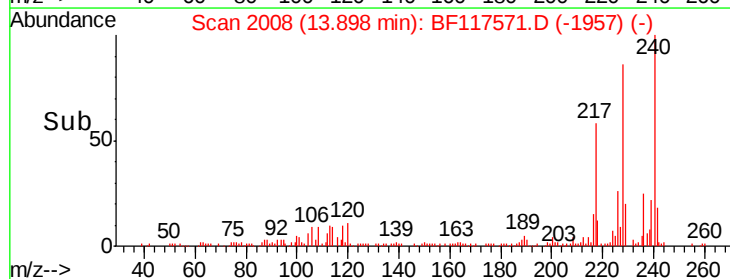
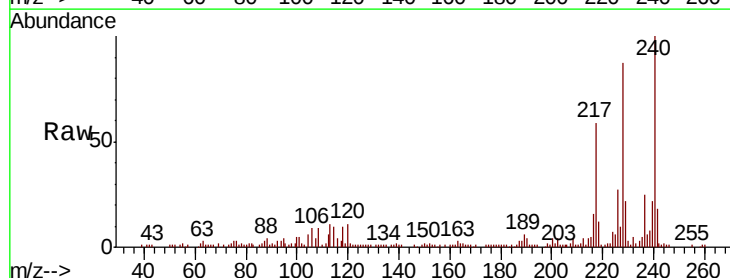
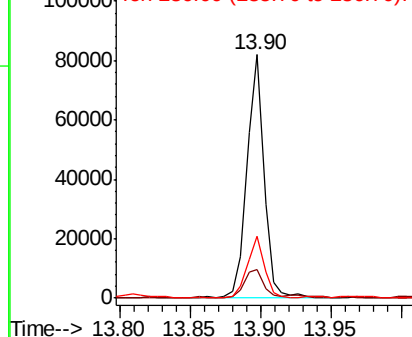
Delta R.T. -0.00 min

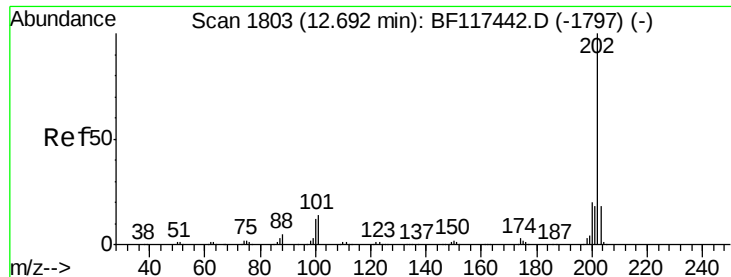
Lab File: BF117571.D

Acq: 28 Oct 2019 19:38

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	11.5	8.4	12.6
236	25.4	20.0	30.0

Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





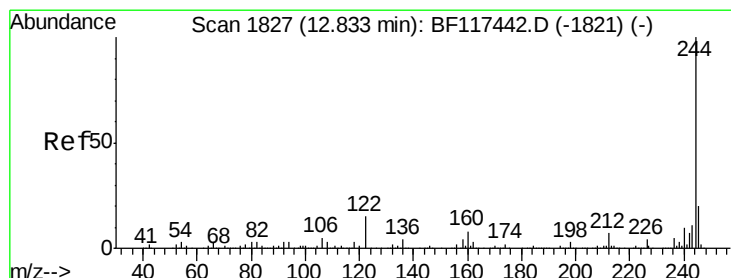
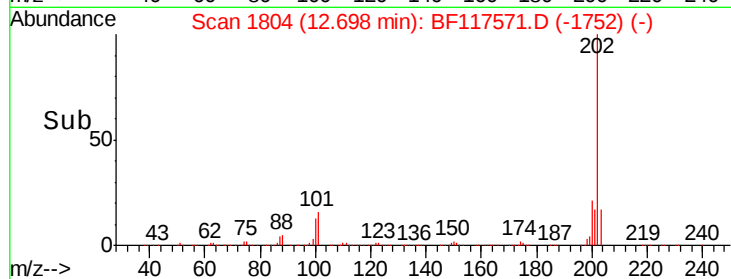
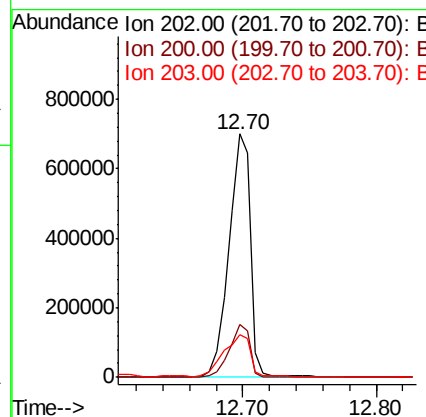
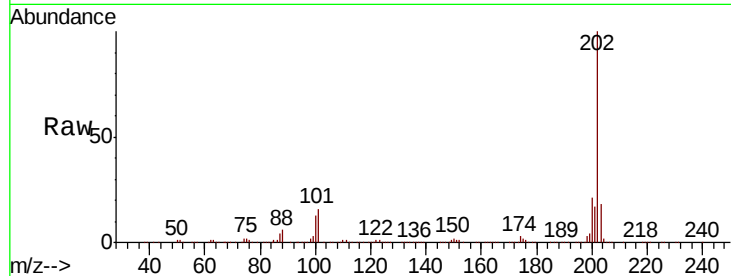
#78
Pvrene
Concen: 132.325 ng
RT: 12.70 min Scan# 1804
Delta R.T. 0.01 min
Lab File: BF117571.D
Acq: 28 Oct 2019 19:38

Instrument :
BNA_F
ClientSampleId :
177-44-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.5	16.2	24.2
203	17.6	14.0	21.0

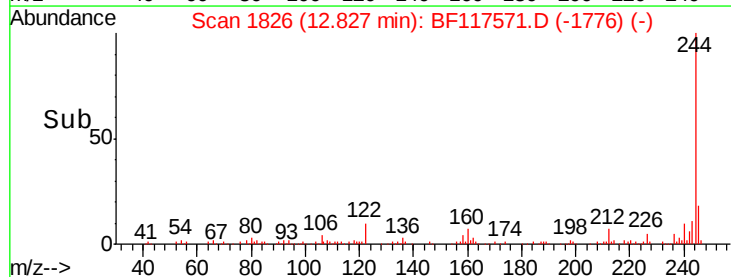
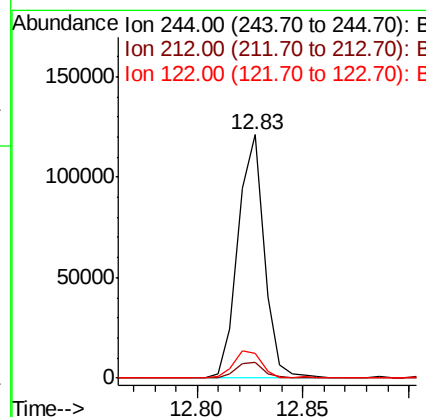
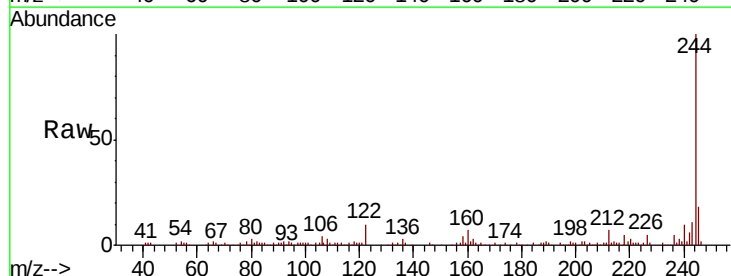
Manual Integrations
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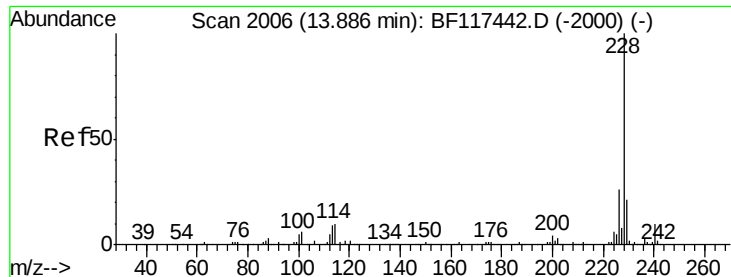
mohammad
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#79
Terphenyl-d14
Concen: 24.285 ng
RT: 12.83 min Scan# 1826
Delta R.T. -0.01 min
Lab File: BF117571.D
Acq: 28 Oct 2019 19:38

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.8	8.6
122	10.4	11.8	17.8#





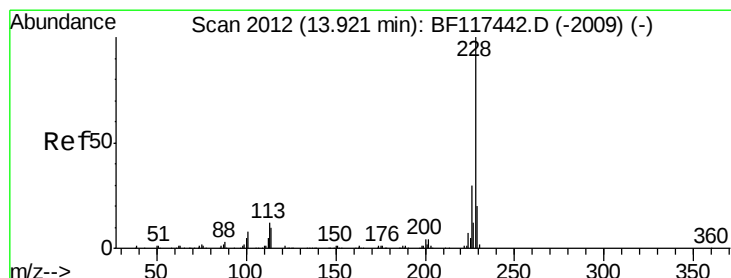
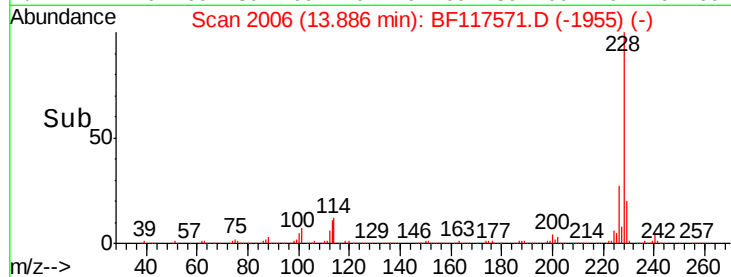
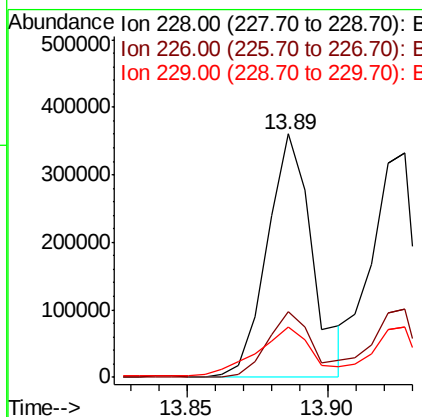
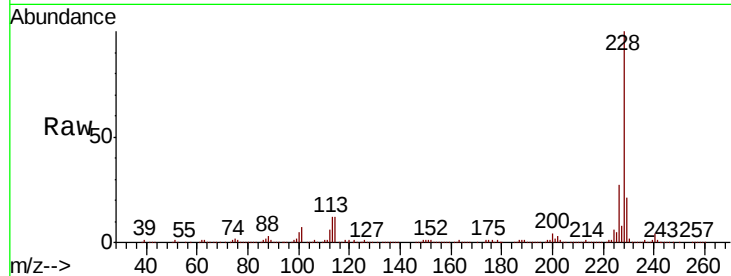
#81
Benzo(a)anthracene
Concen: 84.619 ng
RT: 13.89 min Scan# 2006
Delta R.T. -0.00 min
Lab File: BF117571.D
Acq: 28 Oct 2019 19:38

Instrument :
BNA_F
ClientSampleId :
177-44-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	26.8	21.0	31.4
229	20.7	16.4	24.6

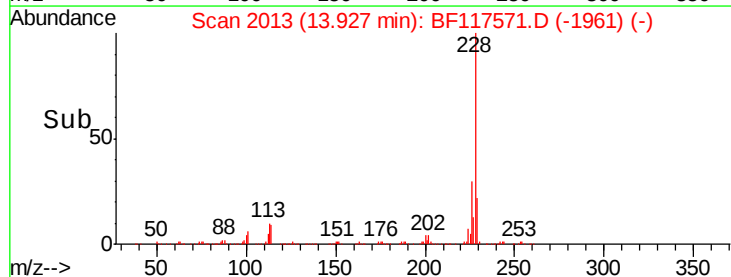
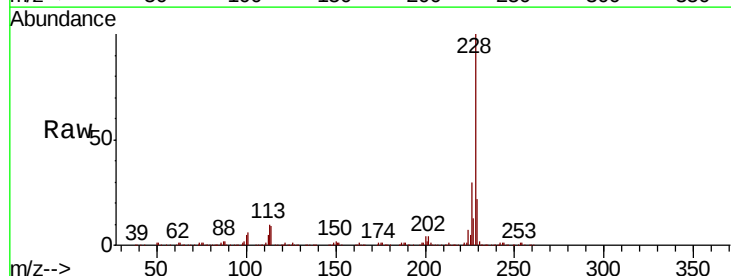
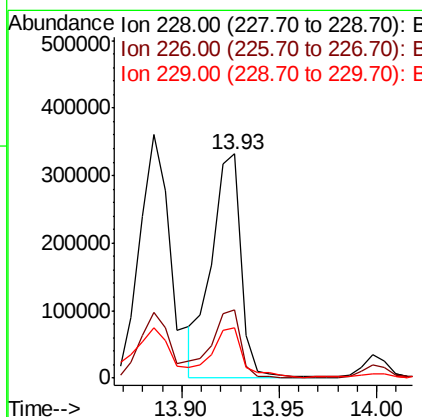
Manual Integrations
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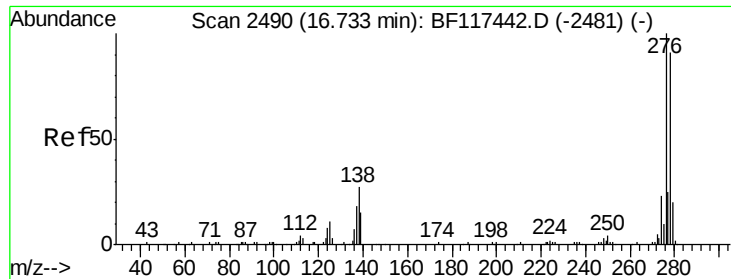
mohammad
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#83
Chrysene
Concen: 75.859 ng
RT: 13.93 min Scan# 2013
Delta R.T. 0.01 min
Lab File: BF117571.D
Acq: 28 Oct 2019 19:38

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	23.9	35.9
229	22.4	15.8	23.6





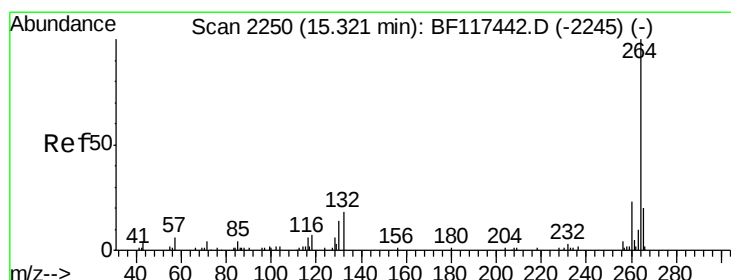
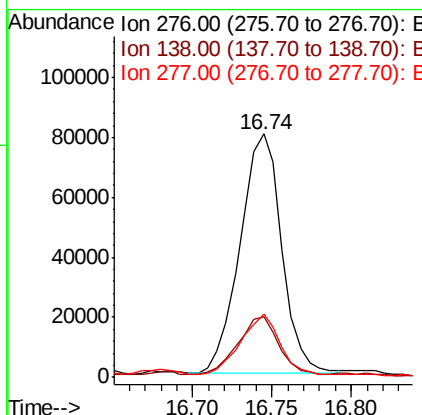
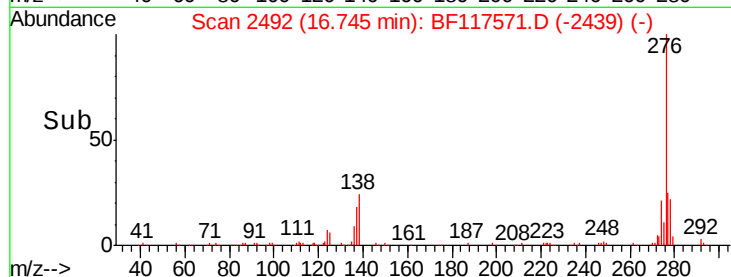
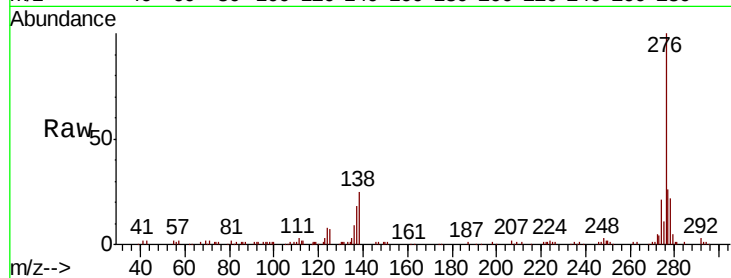
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 42.038 ng
 RT: 16.74 min Scan# 2492
 Delta R.T. 0.01 min
 Lab File: BF117571.D
 Acq: 28 Oct 2019 19:38

Instrument :
 BNA_F
 ClientSampleId :
 177-44-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	25.6	21.8	32.8
277	23.7	20.0	30.0

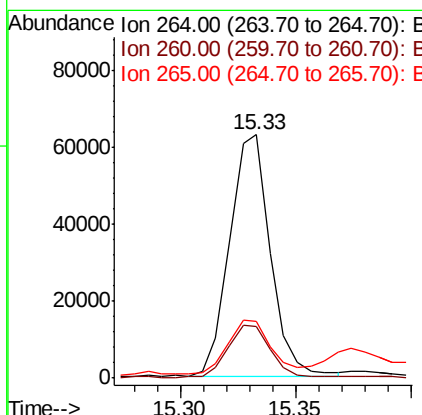
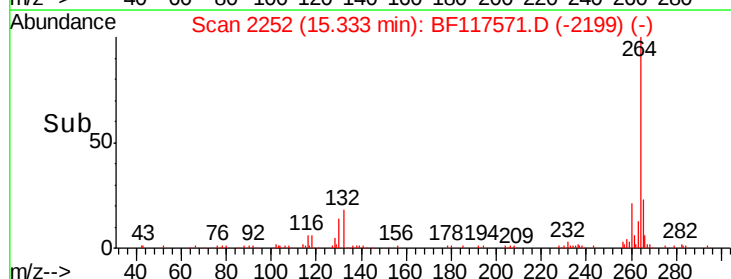
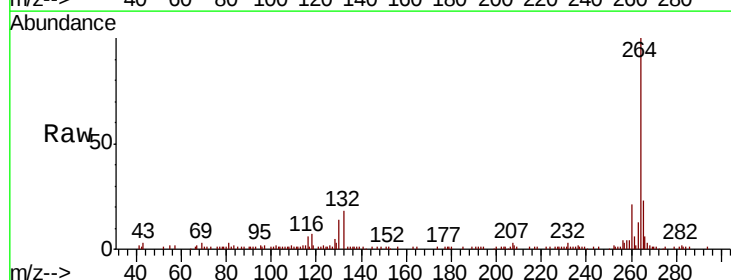
Manual Integrations
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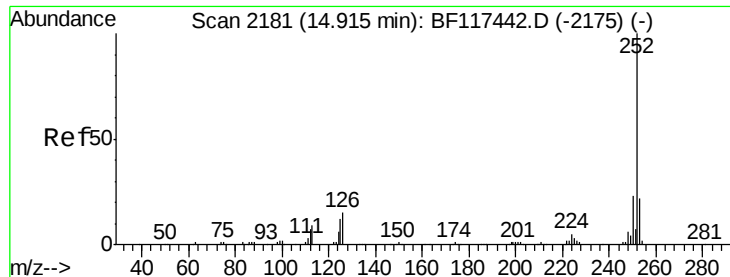
mohammad
 10/30/2019 4:51:28 PM



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.33 min Scan# 2252
 Delta R.T. 0.01 min
 Lab File: BF117571.D
 Acq: 28 Oct 2019 19:38

Tgt Ion	Ratio	Lower	Upper
264	100		
260	21.3	18.4	27.6
265	23.5	16.1	24.1





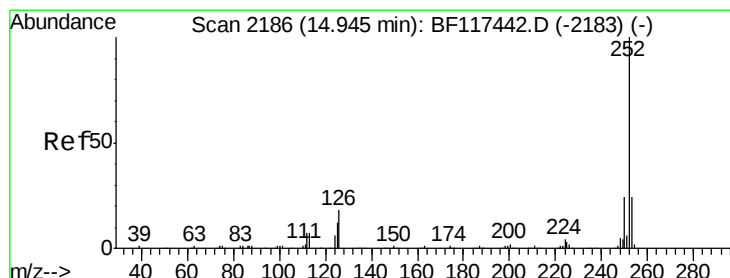
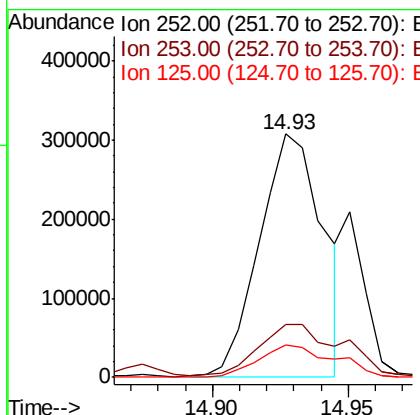
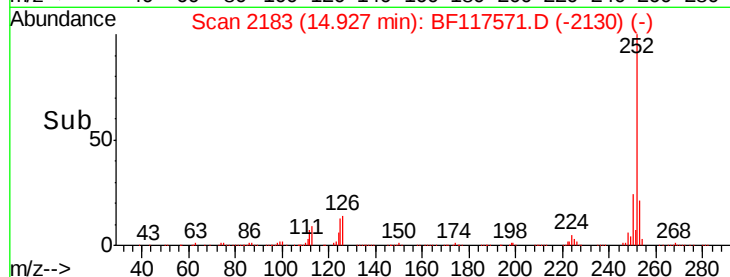
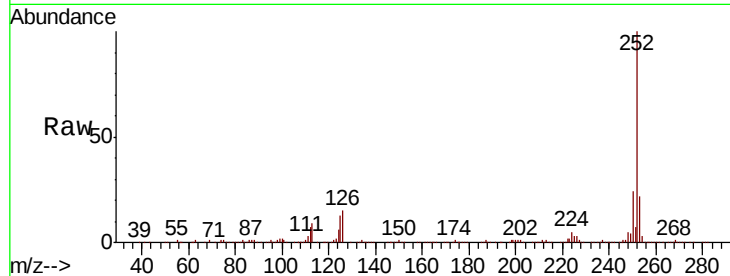
#88
Benzo(b)fluoranthene
Concen: 108.861 ng m
RT: 14.93 min Scan# 2183
Delta R.T. 0.01 min
Lab File: BF117571.D
Acq: 28 Oct 2019 19:38

Instrument :
BNA_F
ClientSampleId :
177-44-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.8	26.6
125	13.2	9.9	14.9

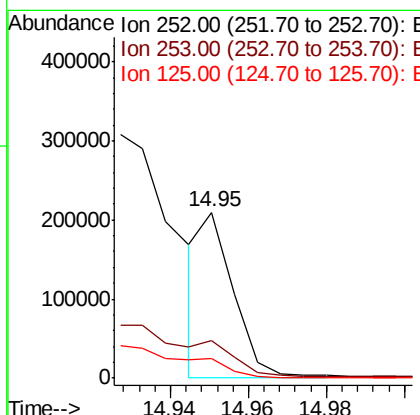
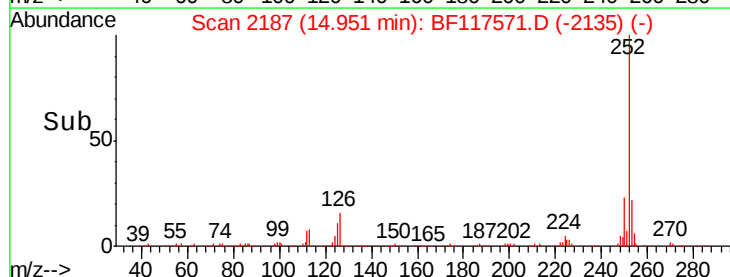
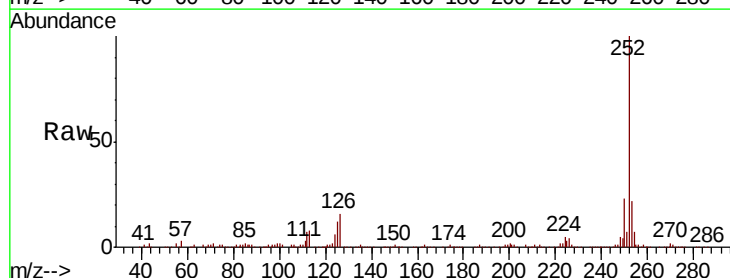
Manual Integrations
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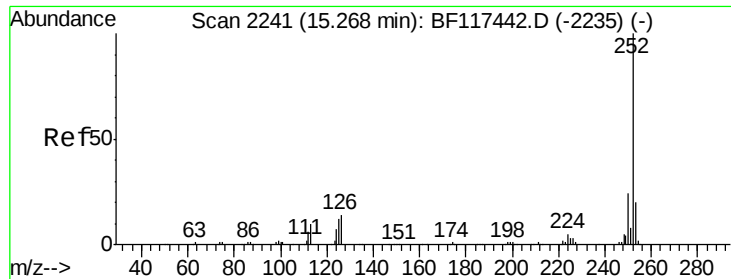
mohammad
10/30/2019 4:51:28 PM



#89
Benzo(k)fluoranthene
Concen: 25.977 ng m
RT: 14.95 min Scan# 2187
Delta R.T. 0.01 min
Lab File: BF117571.D
Acq: 28 Oct 2019 19:38

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.0	27.0
125	11.7	8.9	13.3





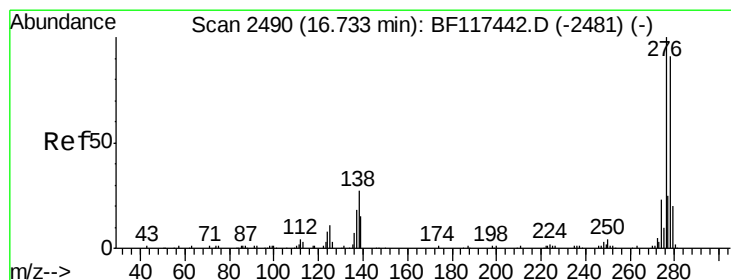
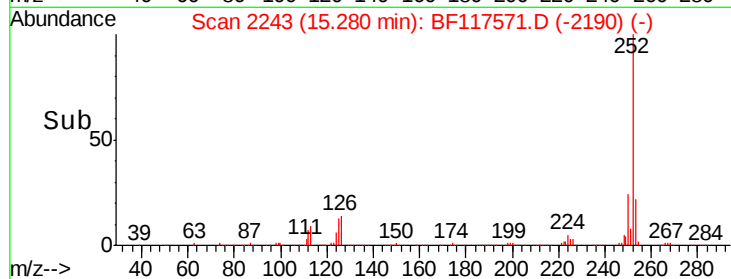
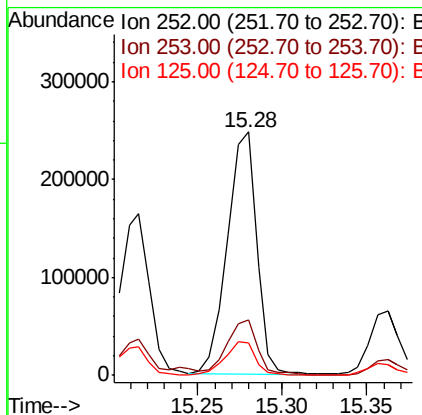
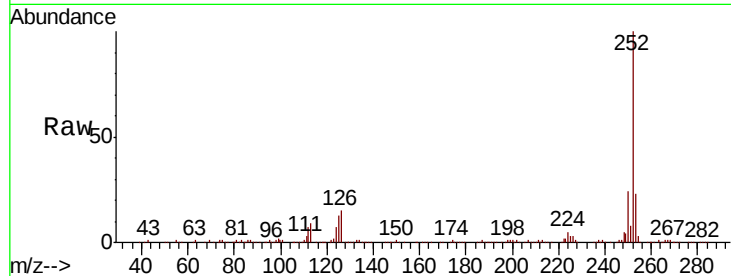
#90
Benzo(a)pyrene
Concen: 72.141 ng
RT: 15.28 min Scan# 2243
Delta R.T. 0.01 min
Lab File: BF117571.D
Acq: 28 Oct 2019 19:38

Instrument :
BNA_F
ClientSampleId :
177-44-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	16.3	24.5
125	13.1	9.2	13.8

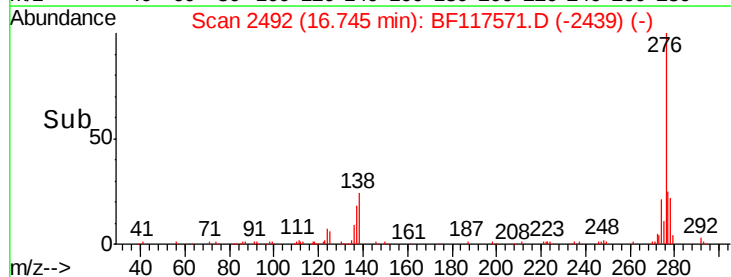
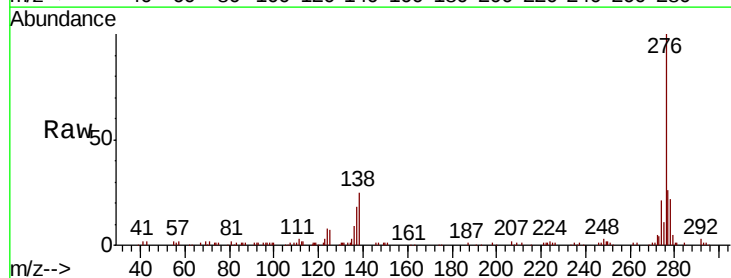
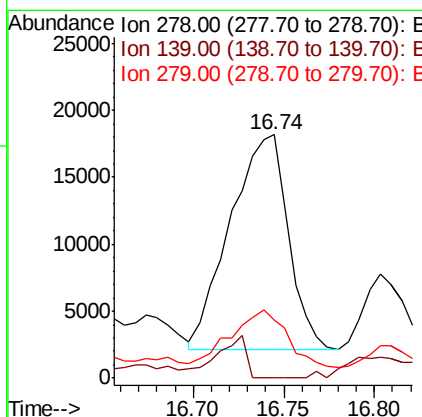
Manual Integrations
APPROVED

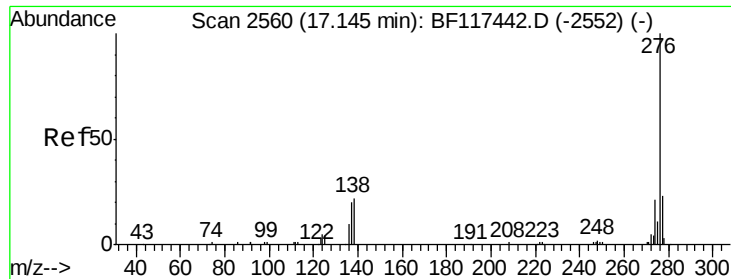
mohammad
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#91
Dibenzo(a,h)anthracene
Concen: 9.905 ng
RT: 16.74 min Scan# 2492
Delta R.T. 0.01 min
Lab File: BF117571.D
Acq: 28 Oct 2019 19:38

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	13.4	20.0#
279	23.8	17.8	26.6





#92
 Benzo(a,h,i)perylene
 Concen: 36.466 ng
 RT: 17.17 min Scan# 2565
 Delta R.T. 0.03 min
 Lab File: BF117571.D
 Acq: 28 Oct 2019 19:38

Instrument :
 BNA_F
 ClientSampleId :
 177-44-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.3	18.4	27.6
138	23.8	17.8	26.6

Manual Integrations
 APPROVED

mohammad
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