

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091019\
 Data File : BF116949.D
 Acq On : 11 Sep 2019 9:28
 Operator : HP/JU
 Sample : K4636-16DL2 40X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-32-COMPDL2

Manual Integrations
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Quant Time: Sep 11 10:02:40 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 10 17:49:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	73782	20.00	ng	0.00
21) Naphthalene-d8	8.12	136	331517	20.00	ng	0.00
39) Acenaphthene-d10	9.87	164	167140	20.00	ng	0.00
64) Phenanthrene-d10	11.35	188	255592	20.00	ng	0.00
76) Chrysene-d12	13.99	240	153563	20.00	ng	0.00
87) Perylene-d12	15.44	264	176944	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	8468	1.86	ng	0.00
7) Phenol-d6	6.46	99	13792	2.31	ng	-0.01
23) Nitrobenzene-d5	7.39	82	8387	1.44	ng	0.00
42) 2,4,6-Tribromophenol	10.66	330	2537	2.27	ng	0.00
45) 2-Fluorobiphenyl	9.19	172	17577	1.77	ng	0.00
79) Terphenyl-d14	12.93	244	16077	1.94	ng	0.00

Target Compounds				Qvalue		
31) Naphthalene	8.13	128	59418	3.769	ng	99
37) 2-Methylnaphthalene	8.83	142	24745	2.359	ng	98
38) 1-Methylnaphthalene	8.93	142	21400	2.161	ng	# 96
52) Acenaphthene	9.90	154	72073	7.725	ng	98
55) Dibenzofuran	10.07	168	92381	7.024	ng	96
58) Fluorene	10.42	166	112444	11.220	ng	98
71) Phenanthrene	11.38	178	997408	70.102	ng	99
72) Anthracene	11.43	178	303813	21.212	ng	99
73) Carbazole	11.58	167	64482	4.726	ng	100
75) Fluoranthene	12.56	202	824744	58.984	ng	98
78) Pyrene	12.79	202	655519	48.021	ng	99
81) Benzo(a)anthracene	13.97	228	239516	24.644	ng	100
83) Chrysene	14.01	228	191417	19.117	ng	97
86) Indeno(1,2,3-cd)pyrene	16.88	276	113907	14.163	ng	98
88) Benzo(b)fluoranthene	15.02	252	237462m	22.197	ng	
89) Benzo(k)fluoranthene	15.04	252	72379m	7.420	ng	
90) Benzo(a)pyrene	15.37	252	180900	19.437	ng	99
91) Dibenzo(a,h)anthracene	16.88	278	25726m	3.158	ng	
92) Benzo(a,h,i)perylene	17.32	276	99958	12.031	ng	97

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

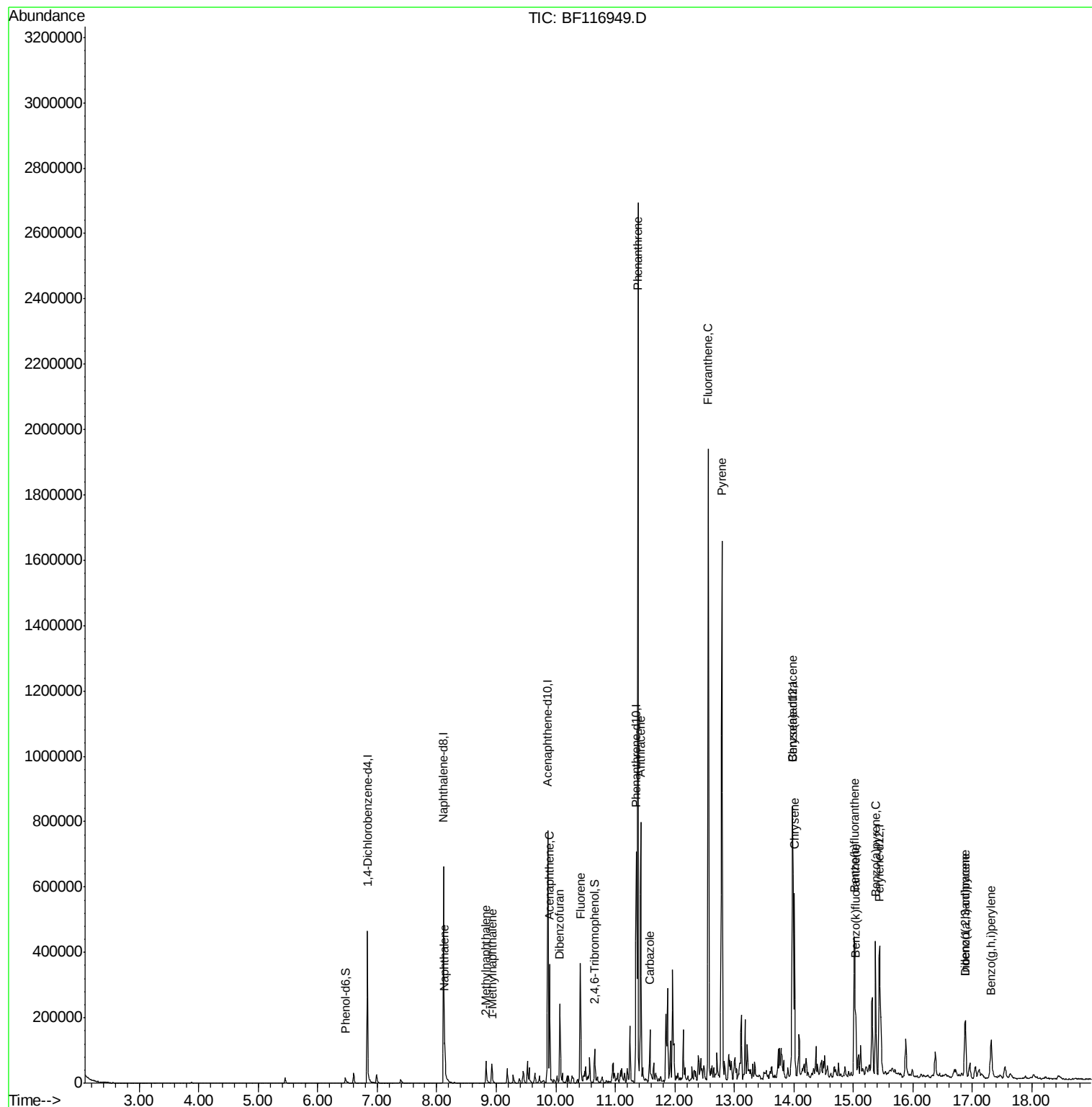
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091019\
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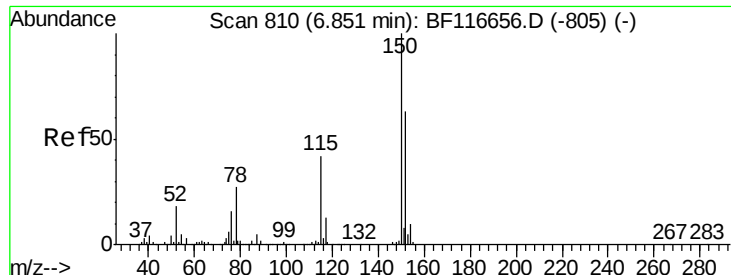
Instrument :
BNA_F
ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

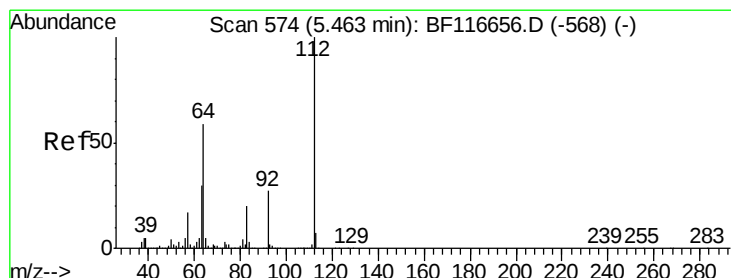
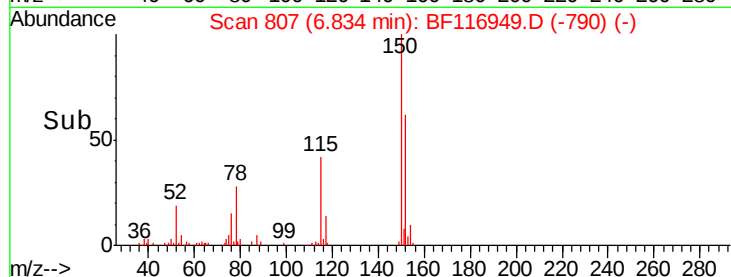
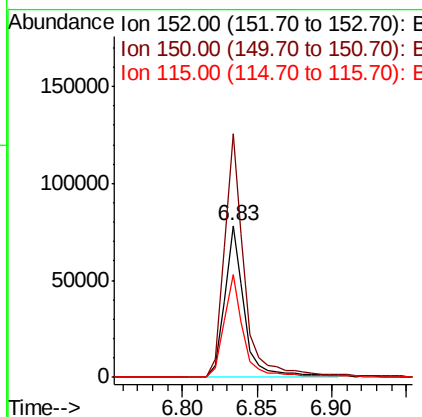
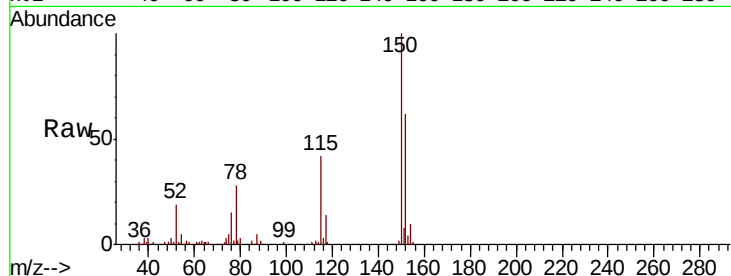
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.83 min Scan# 807
Delta R.T. 0.00 min
Lab File: BF116949.D
Acq: 11 Sep 2019 9:28

Instrument :
BNA_F
ClientSampleId :
SB-32-COMPDL2

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.3	124.4	186.6
115	67.5	49.9	74.9

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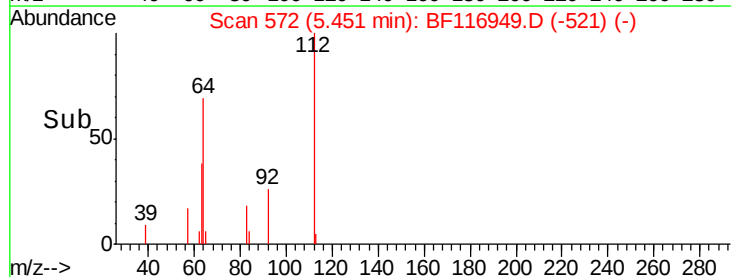
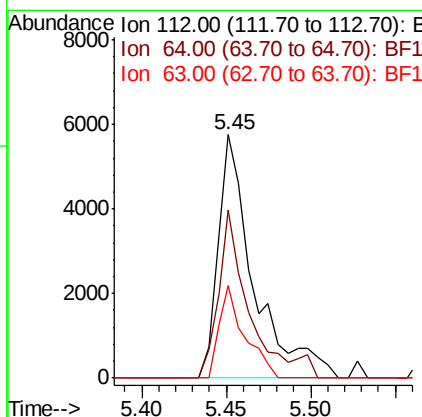
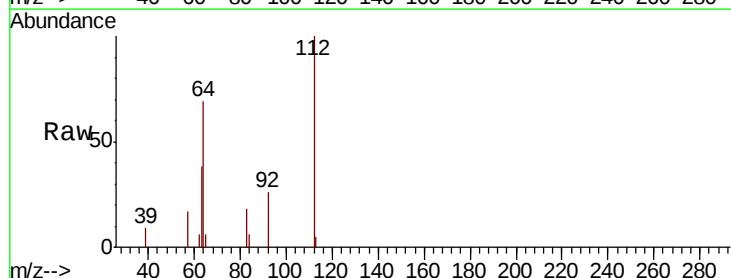
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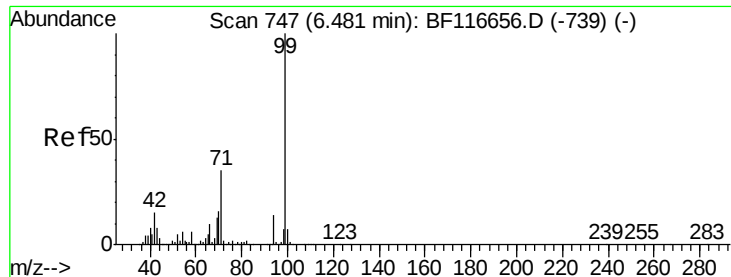


#5

2-Fluorophenol
Concen: 1.859 ng
RT: 5.45 min Scan# 572
Delta R.T. 0.00 min
Lab File: BF116949.D
Acq: 11 Sep 2019 9:28

Tgt Ion	Ratio	Lower	Upper
112	100		
64	69.2	47.1	70.7
63	38.0	24.9	37.3





#7

Phenol-d6

Concen: 2.306 ng

RT: 6.46 min Scan# 744

Delta R.T. -0.01 min

Lab File: BF116949.D

Acq: 11 Sep 2019 9:28

Instrument :

BNA_F

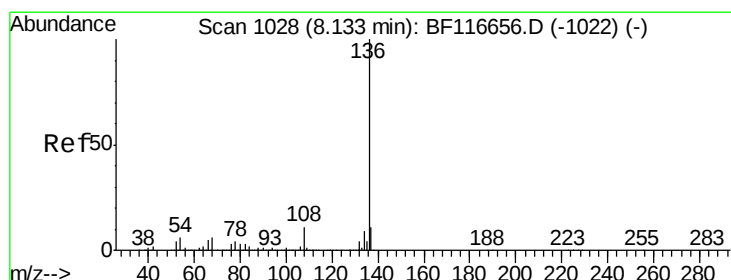
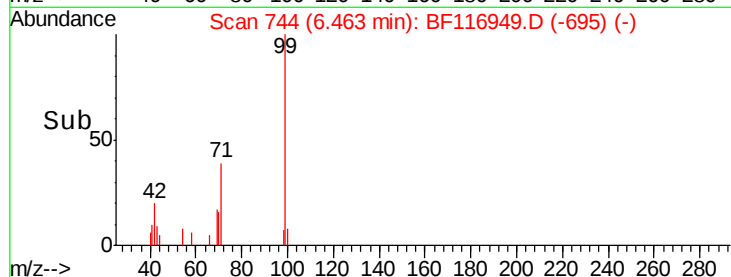
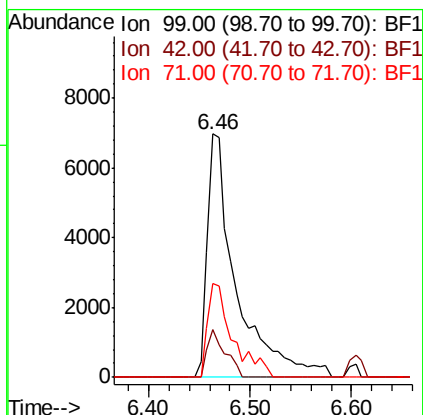
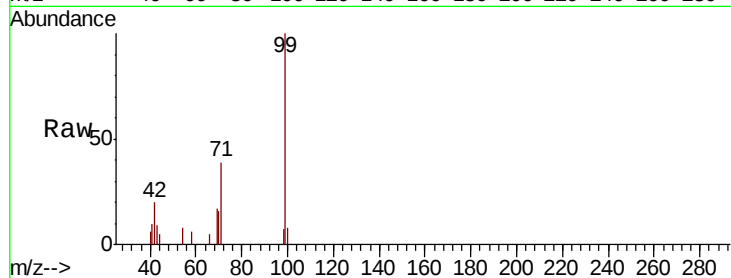
ClientSampleId :

SB-32-COMPDL2

Tot Ion:	99	Resp:	13792
Ion Ratio	Lower	Upper	
99	100		
42	19.7	13.7	20.5
71	38.6	30.8	46.2

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#21

Naphthalene-d8

Concen: 20.000 ng

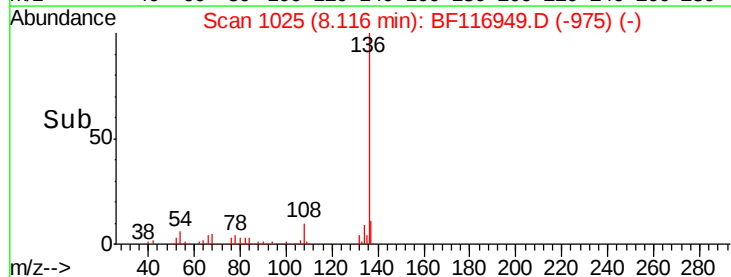
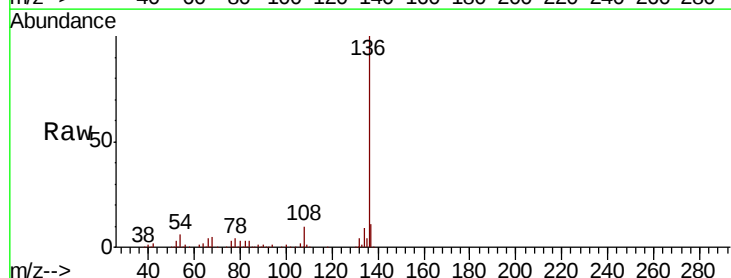
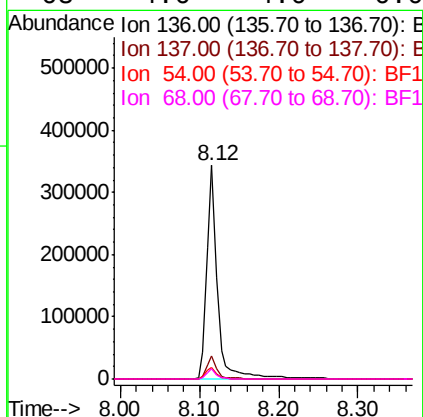
RT: 8.12 min Scan# 1025

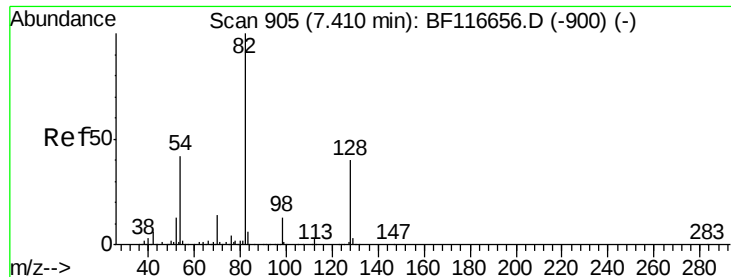
Delta R.T. -0.01 min

Lab File: BF116949.D

Acq: 11 Sep 2019 9:28

Tgt Ion:	136	Resp:	331517
Ion Ratio	Lower	Upper	
136	100		
137	10.7	8.9	13.3
54	5.7	4.8	7.2
68	4.6	4.0	6.0





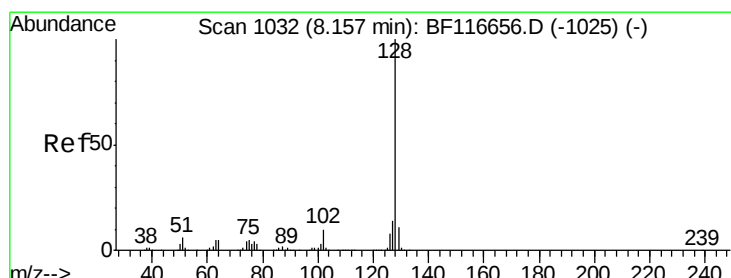
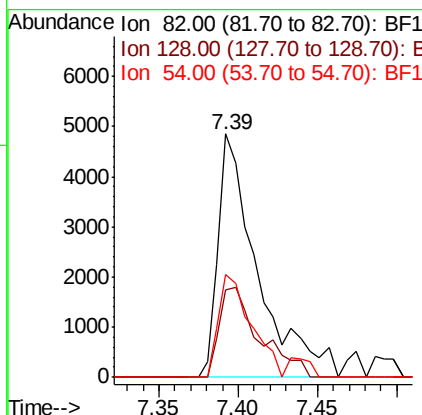
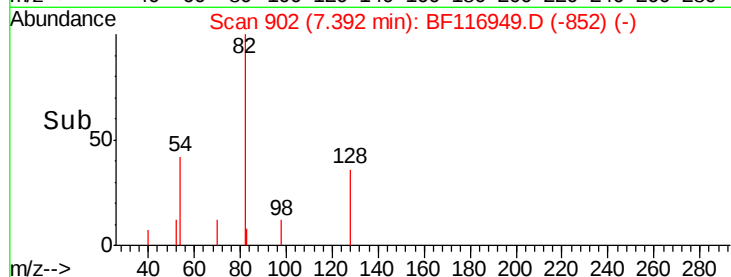
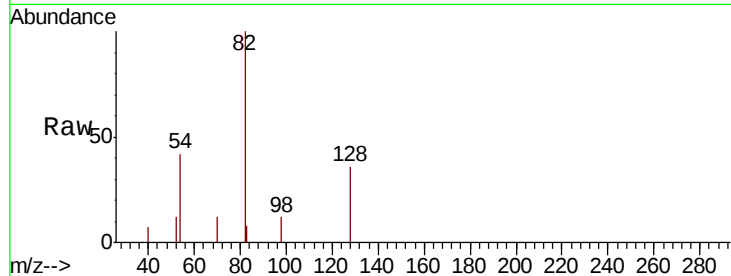
#23
 Nitrobenzene-d5
 Concen: 1.444 ng
 RT: 7.39 min Scan# 902
 Delta R.T. -0.01 min
 Lab File: BF116949.D
 Acq: 11 Sep 2019 9:28

Instrument :
 BNA_F
 ClientSampleId :
 SB-32-COMPDL2

Tot Ion:	82	Resp:	8387
Ion Ratio	Lower	Upper	
82	100		
128	35.7	32.8	49.2
54	42.2	36.9	55.3

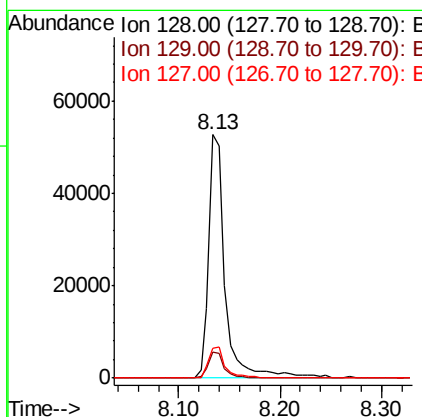
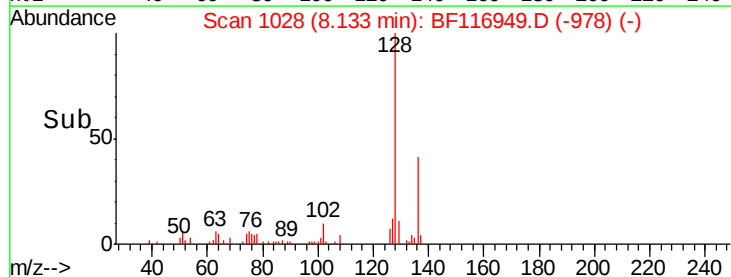
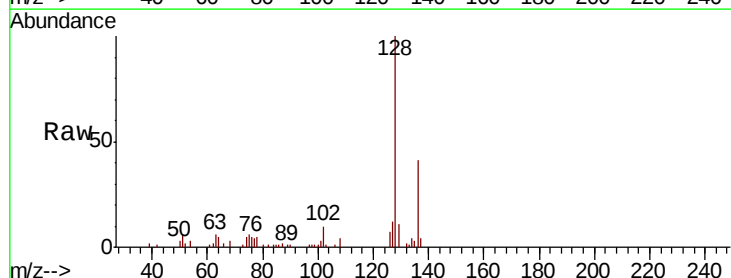
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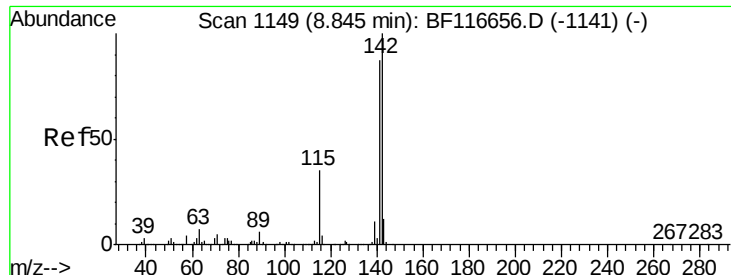
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#31
 Naphthalene
 Concen: 3.769 ng
 RT: 8.13 min Scan# 1028
 Delta R.T. -0.01 min
 Lab File: BF116949.D
 Acq: 11 Sep 2019 9:28

Tgt Ion:	128	Resp:	59418
Ion Ratio	Lower	Upper	
128	100		
129	10.5	8.6	13.0
127	12.4	10.4	15.6





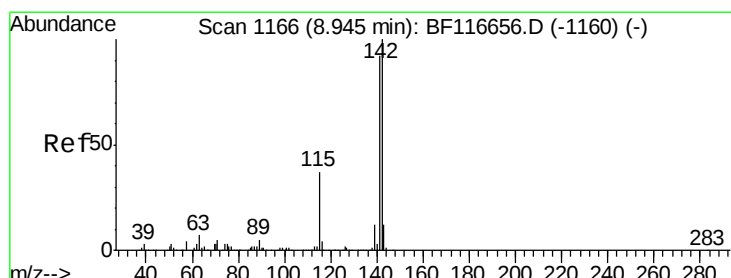
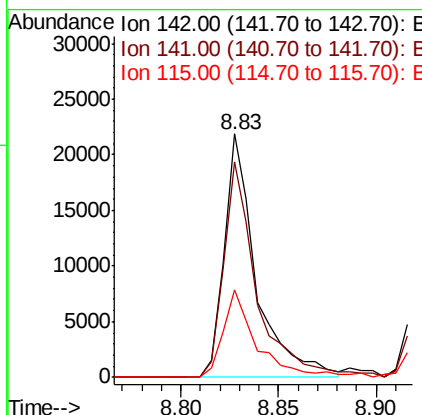
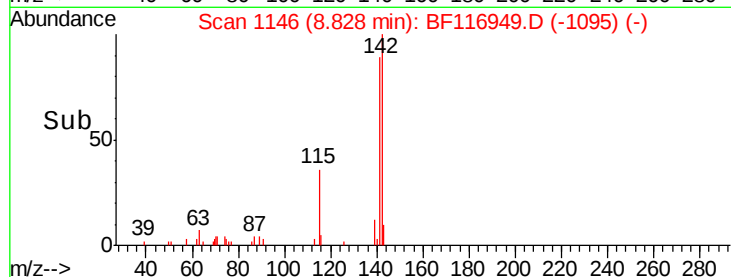
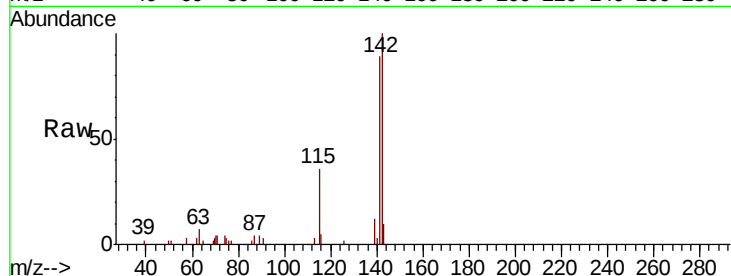
#37
2-Methylnaphthalene
Concen: 2.359 ng
RT: 8.83 min Scan# 1146
Delta R.T. 0.00 min
Lab File: BF116949.D
Acq: 11 Sep 2019 9:28

Instrument :
BNA_F
ClientSampleId :
SB-32-COMPDL2

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.7	72.6	109.0
115	35.9	29.8	44.6

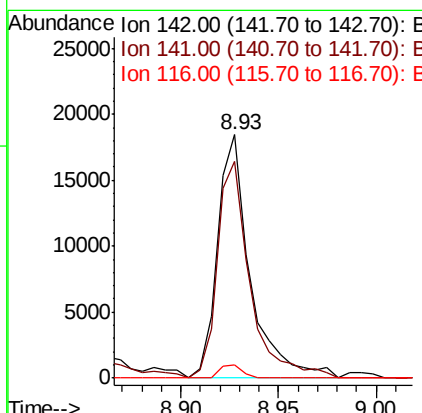
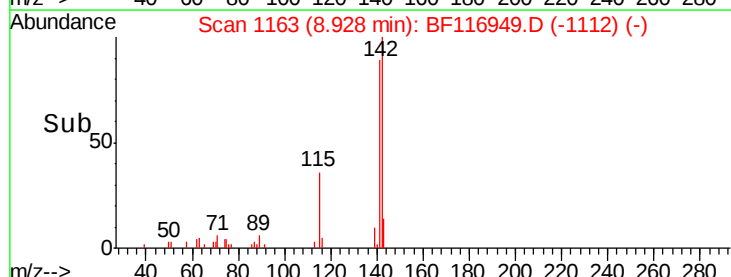
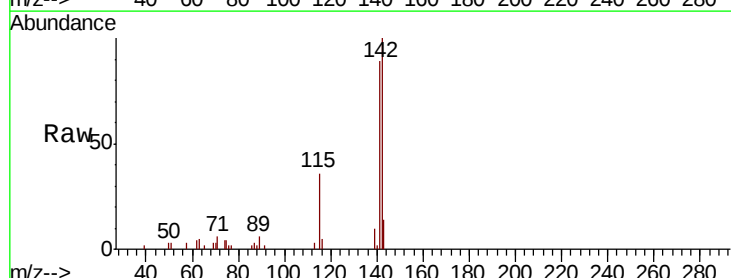
Manual Integrations
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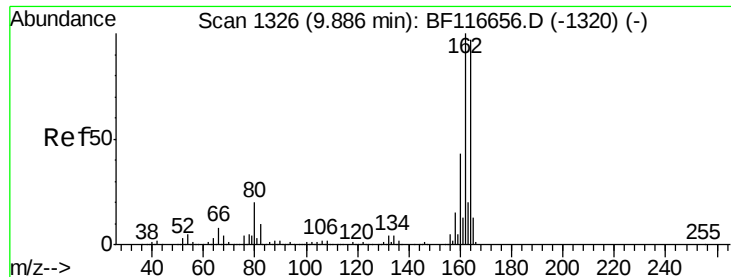
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#38
1-Methylnaphthalene
Concen: 2.161 ng
RT: 8.93 min Scan# 1163
Delta R.T. 0.00 min
Lab File: BF116949.D
Acq: 11 Sep 2019 9:28

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.9	73.9	110.9
116	5.2	3.0	4.6#





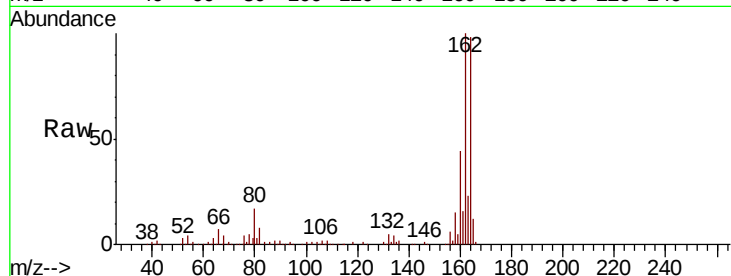
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.87 min Scan# 1323
Delta R.T. 0.00 min
Lab File: BF116949.D
Acq: 11 Sep 2019 9:28

Instrument :
BNA_F
ClientSampleId :
SB-32-COMPDL2

Tot Ion	Ratio	Resp	Lower	Upper
164	100	167140		
162	102.2	81.4	122.0	
160	45.4	35.4	53.2	

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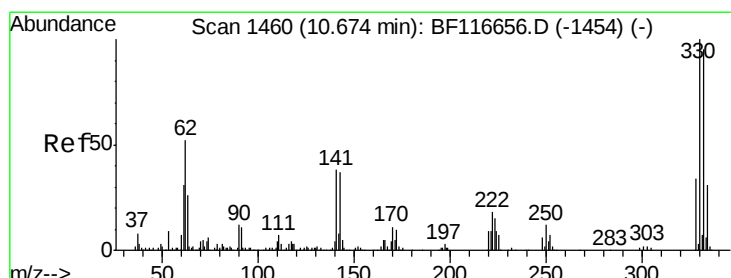
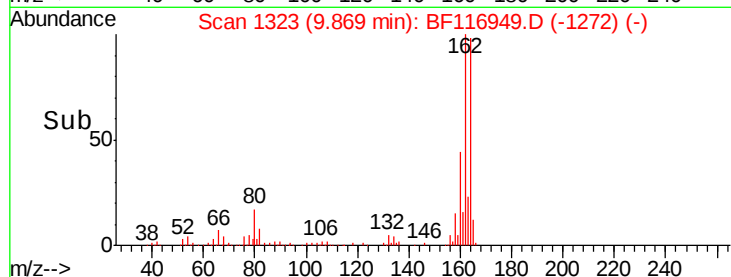
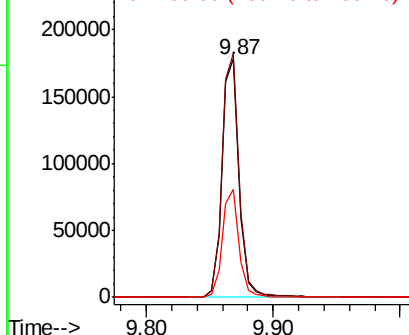


Abundance

Ion 164.00 (163.70 to 164.70): E

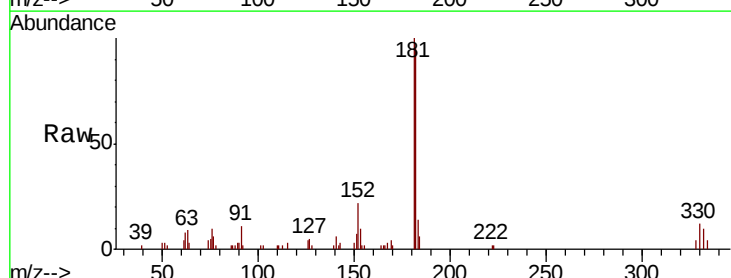
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42
2,4,6-Tribromophenol
Concen: 2.271 ng
RT: 10.66 min Scan# 1457
Delta R.T. 0.00 min
Lab File: BF116949.D
Acq: 11 Sep 2019 9:28

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	2537		
332	78.8	76.9	115.3	
141	55.0	31.4	47.2	

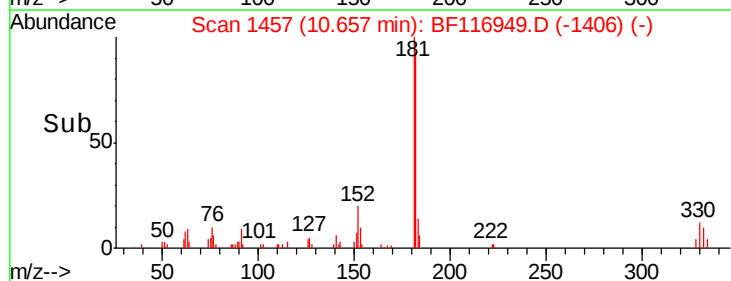
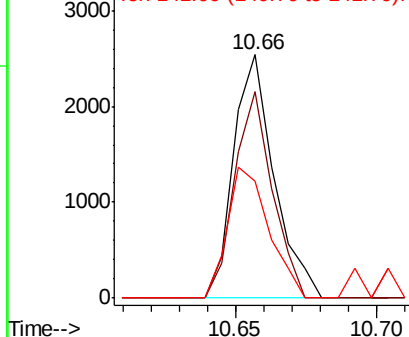


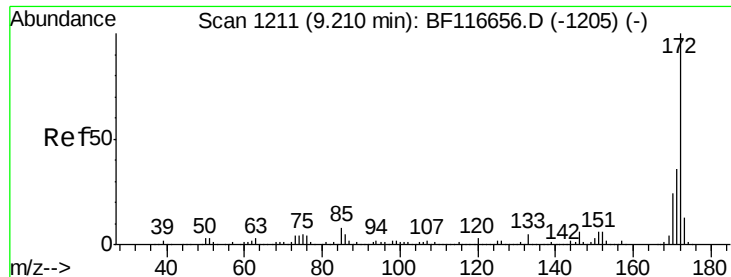
Abundance

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





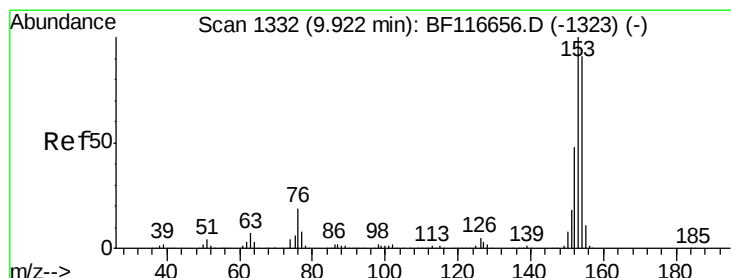
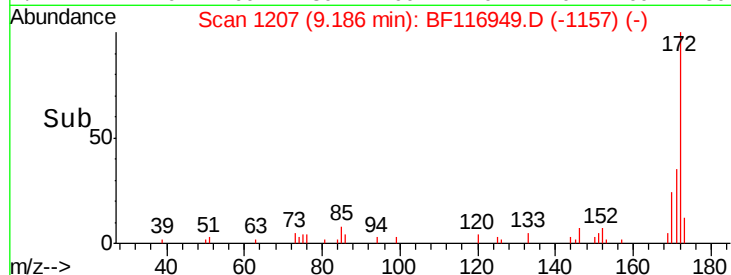
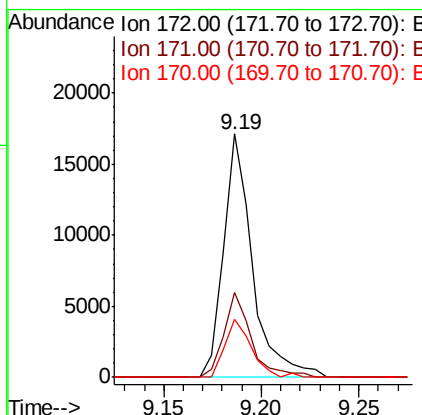
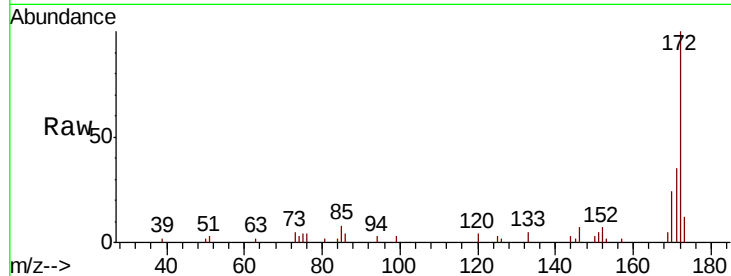
#45
2-Fluorobiphenyl
Concen: 1.774 ng
RT: 9.19 min Scan# 1207
Delta R.T. -0.01 min
Lab File: BF116949.D
Acq: 11 Sep 2019 9:28

Instrument :
BNA_F
ClientSampleId :
SB-32-COMPDL2

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.7	27.8	41.6
170	23.6	18.9	28.3

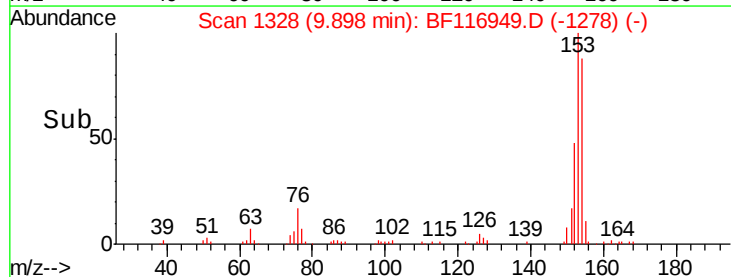
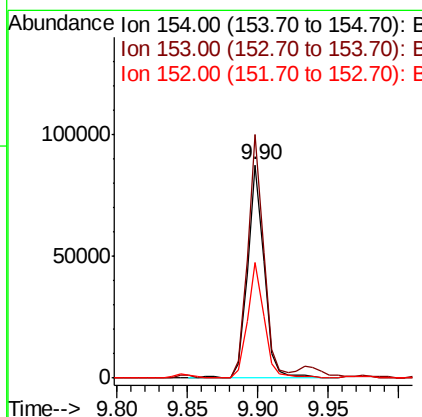
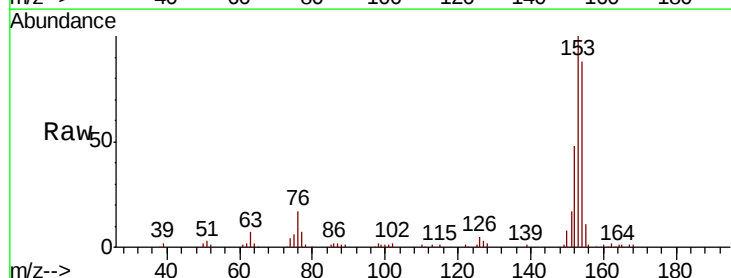
Manual Integrations
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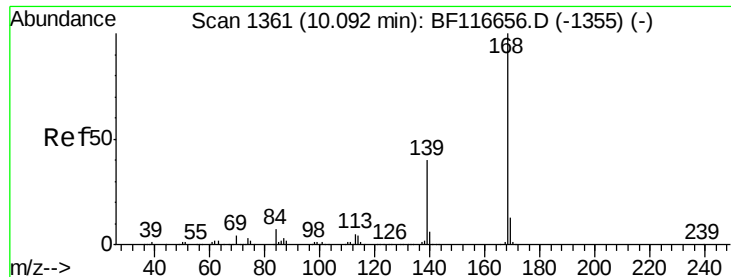
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#52
Acenaphthene
Concen: 7.725 ng
RT: 9.90 min Scan# 1328
Delta R.T. -0.01 min
Lab File: BF116949.D
Acq: 11 Sep 2019 9:28

Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.1	89.5	134.3
152	54.4	41.9	62.9





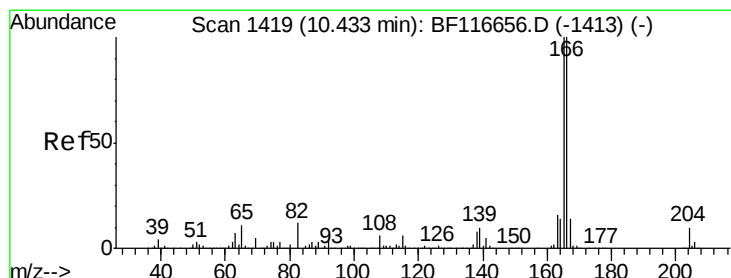
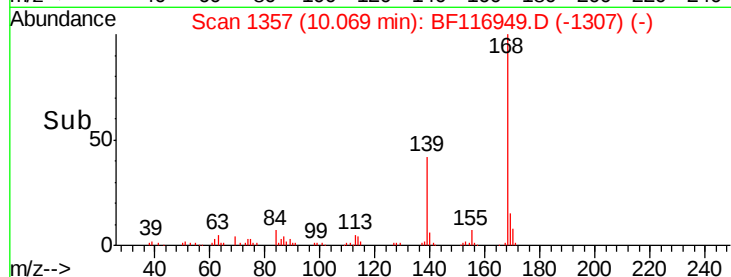
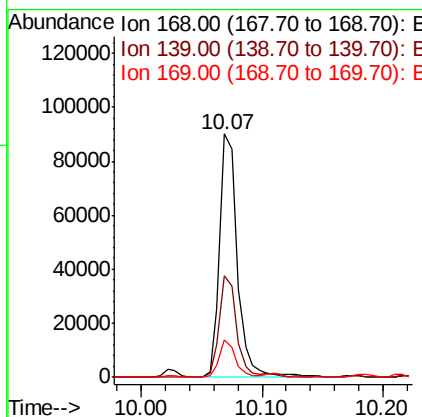
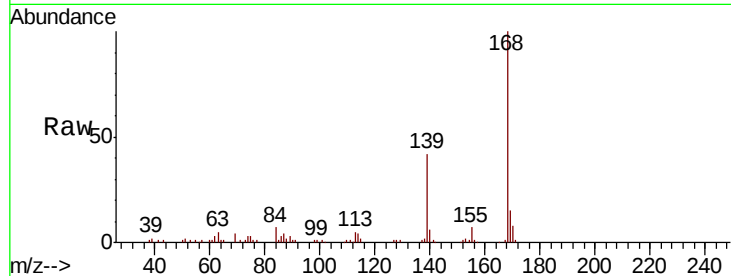
#55
Dibenzofuran
Concen: 7.024 ng
RT: 10.07 min Scan# 1357
Delta R.T. -0.01 min
Lab File: BF116949.D
Acq: 11 Sep 2019 9:28

Instrument :
BNA_F
ClientSampleId :
SB-32-COMPDL2

Tot Ion	Ratio	Lower	Upper
168	100		
139	41.7	31.5	47.3
169	15.2	10.3	15.5

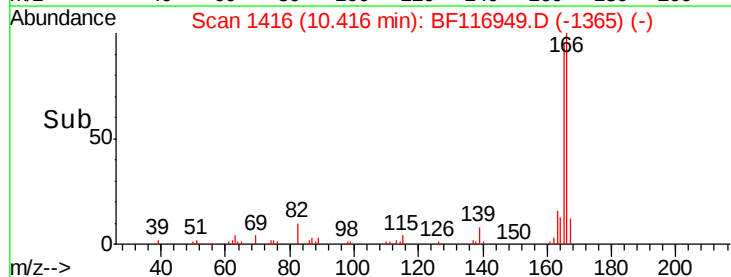
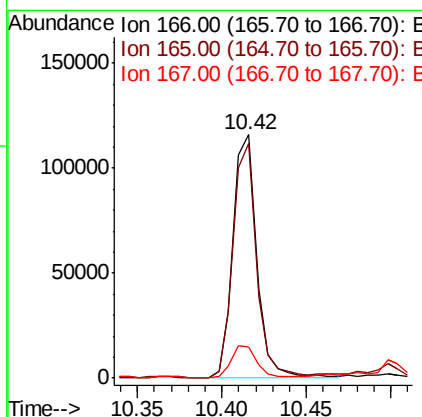
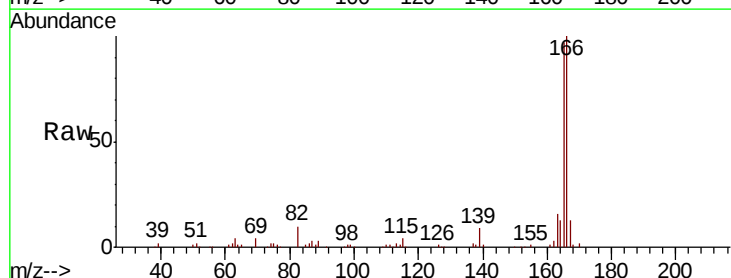
Manual Integrations
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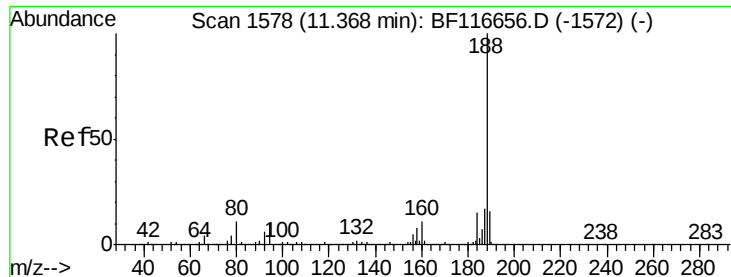
mohammad
9/16/2019 8:57:16 AM



#58
Fluorene
Concen: 11.220 ng
RT: 10.42 min Scan# 1416
Delta R.T. 0.00 min
Lab File: BF116949.D
Acq: 11 Sep 2019 9:28

Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.5	78.8	118.2
167	12.6	10.0	15.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.35 min Scan# 1575

Delta R.T. 0.00 min

Lab File: BF116949.D

Acq: 11 Sep 2019 9:28

Instrument :

BNA_F

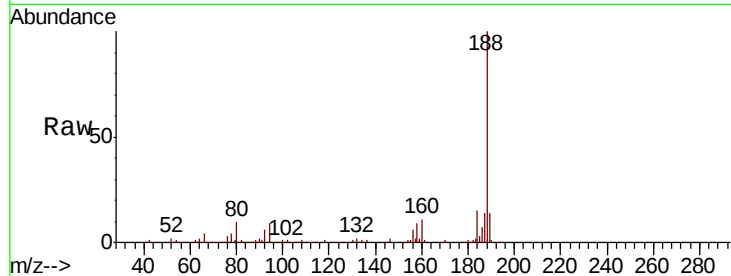
ClientSampleId :

SB-32-COMPDL2

Tot Ion:	188	Resp:	255592
Ion Ratio	Lower	Upper	
188	100		
94	9.4	7.3	10.9
80	10.0	8.4	12.6

Manual Integrations
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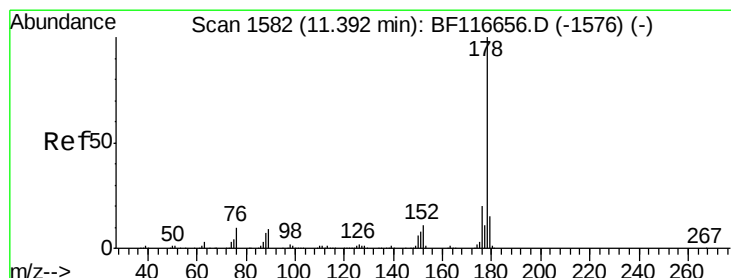
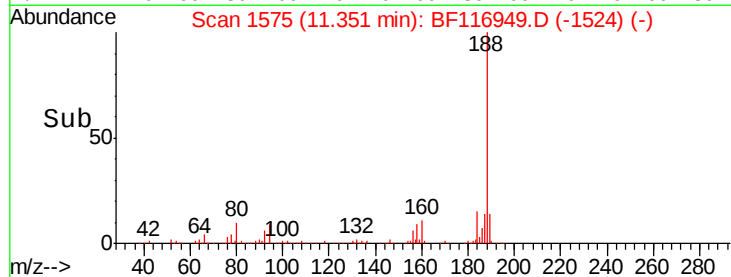
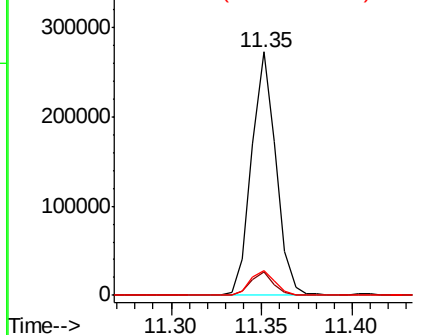
mohammad
9/16/2019 8:57:16 AM



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#71

Phenanthrene

Concen: 70.102 ng

RT: 11.38 min Scan# 1580

Delta R.T. 0.00 min

Lab File: BF116949.D

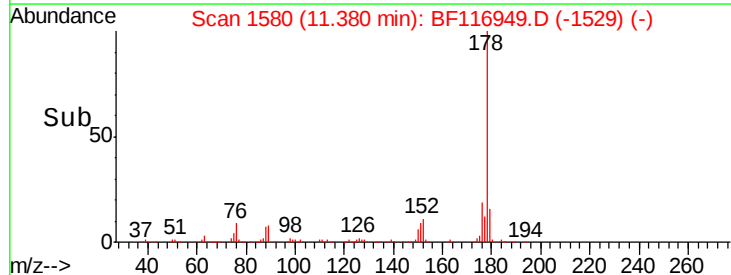
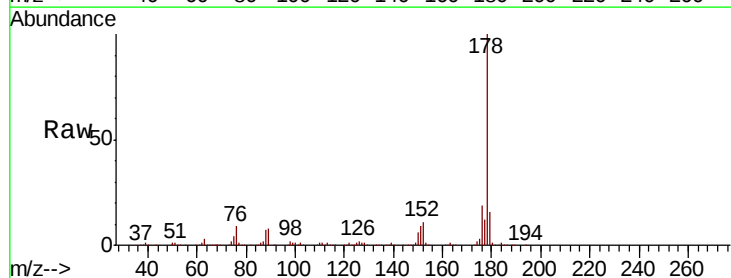
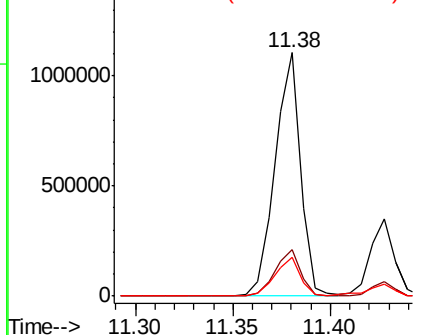
Acq: 11 Sep 2019 9:28

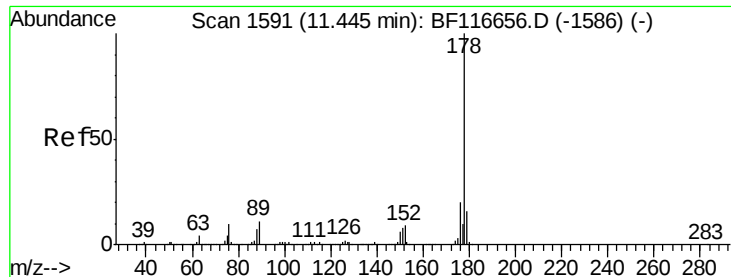
Tgt Ion:	178	Resp:	997408
Ion Ratio	Lower	Upper	
178	100		
176	19.3	15.4	23.0
179	15.9	12.2	18.2

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





#72

Anthracene

Concen: 21.212 ng

RT: 11.43 min Scan# 1588

Delta R.T. 0.00 min

Lab File: BF116949.D

Acq: 11 Sep 2019 9:28

Instrument :

BNA_F

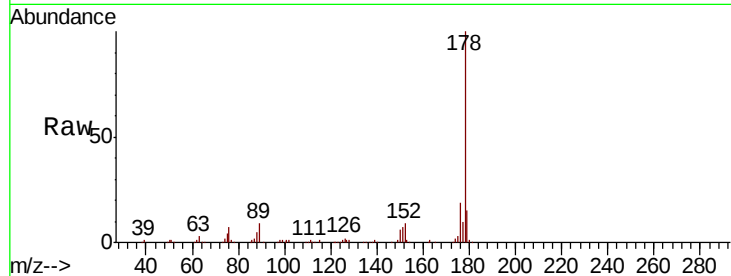
ClientSampleId :

SB-32-COMPDL2

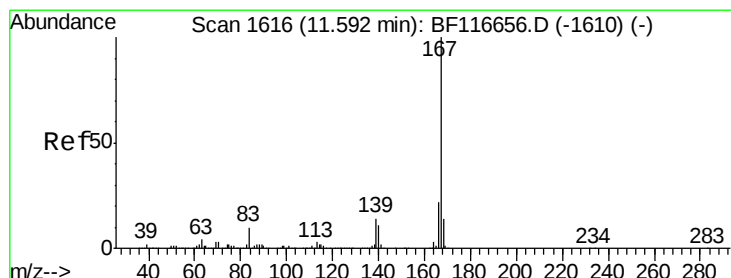
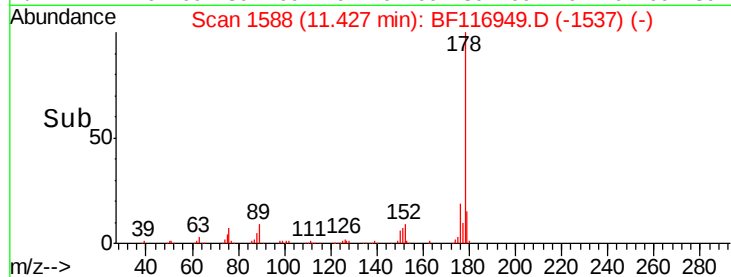
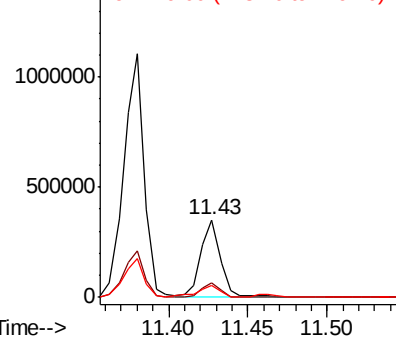
Tot Ion:	178	Resp:	303813
Ion Ratio	Lower	Upper	
178	100		
176	18.7	15.4	23.0
179	14.9	12.5	18.7

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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



#73

Carbazole

Concen: 4.726 ng

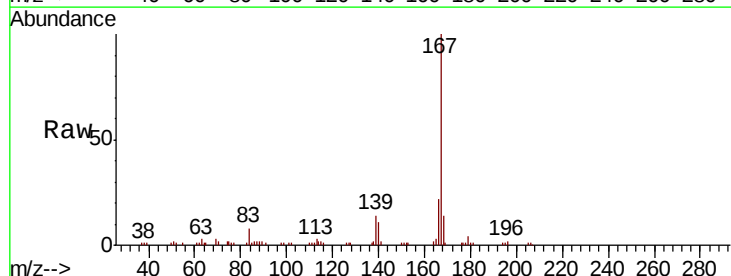
RT: 11.58 min Scan# 1614

Delta R.T. 0.00 min

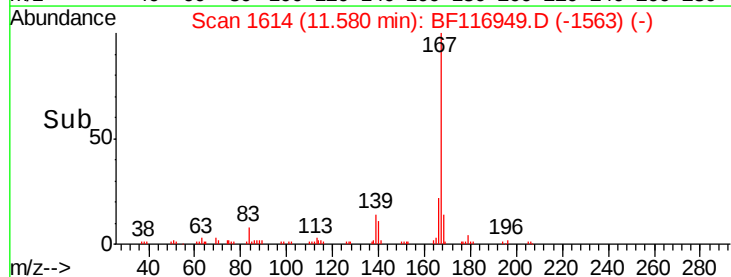
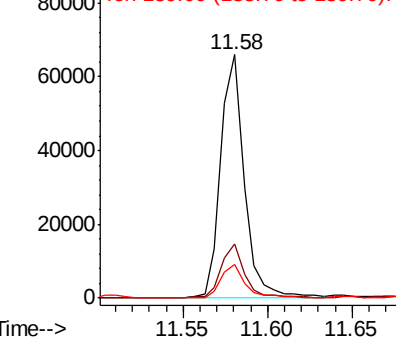
Lab File: BF116949.D

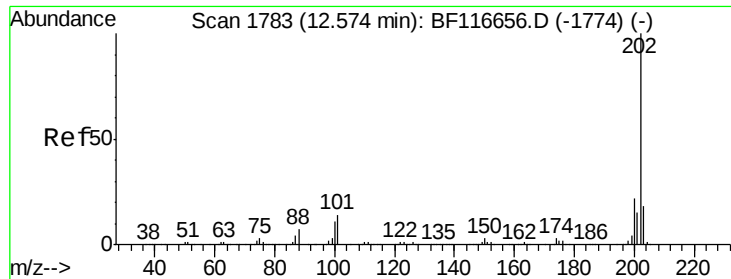
Acq: 11 Sep 2019 9:28

Tgt Ion:	167	Resp:	64482
Ion Ratio	Lower	Upper	
167	100		
166	22.3	17.8	26.6
139	13.9	11.1	16.7



Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 58.984 ng

RT: 12.56 min Scan# 1781

Delta R.T. 0.00 min

Lab File: BF116949.D

Acq: 11 Sep 2019 9:28

Instrument :

BNA_F

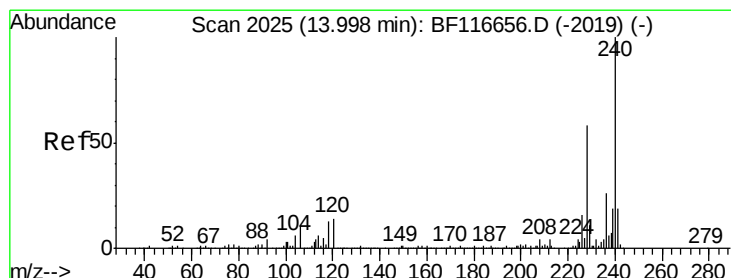
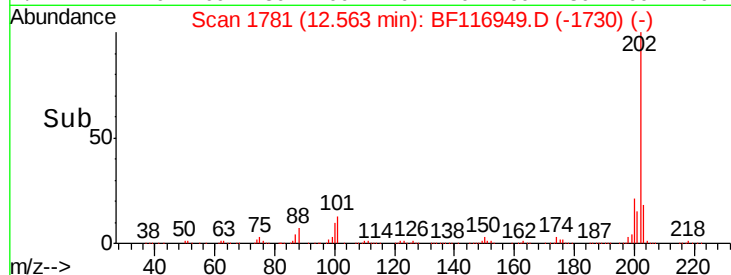
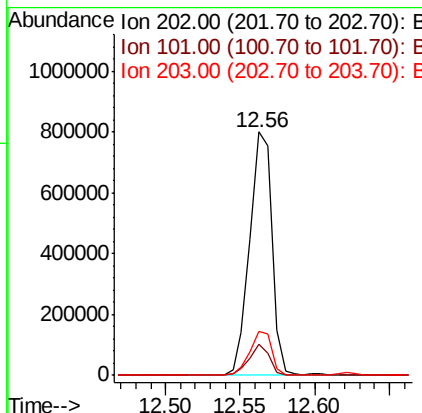
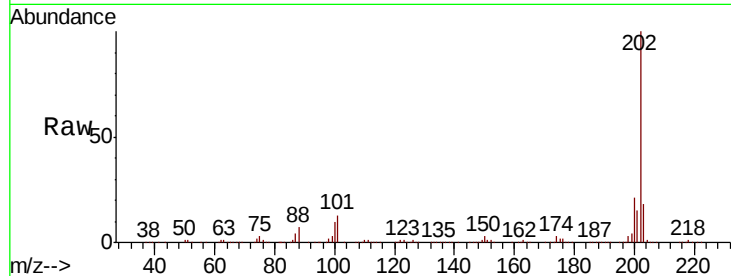
ClientSampled :

SB-32-COMPDL2

Tot Ion	Ratio	Resp	Lower	Upper
202	100	824744		
101	12.6		0.0	31.3
203	17.8		0.0	37.6

Manual Integrations
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#76

Chrysene-d12

Concen: 20.000 ng

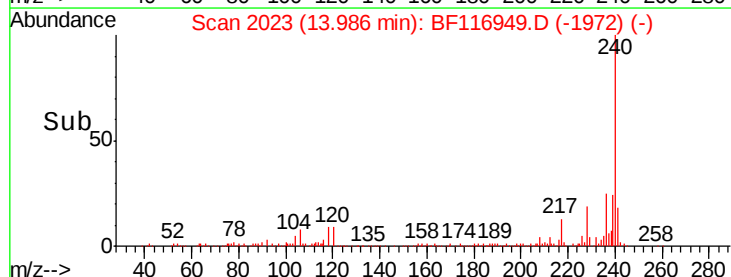
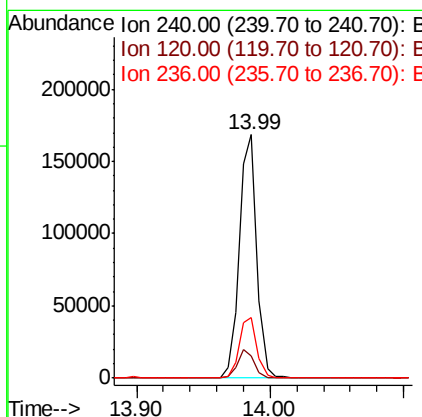
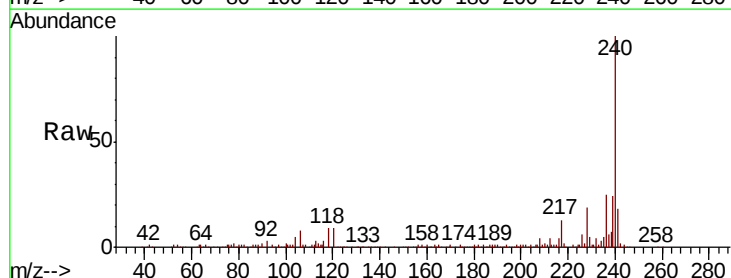
RT: 13.99 min Scan# 2023

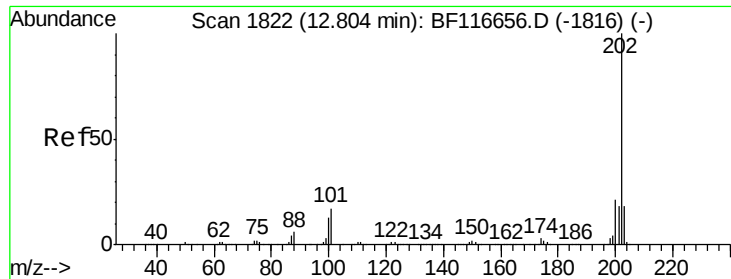
Delta R.T. 0.00 min

Lab File: BF116949.D

Acq: 11 Sep 2019 9:28

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	153563		
120	9.2		9.1	13.7
236	24.9		21.1	31.7





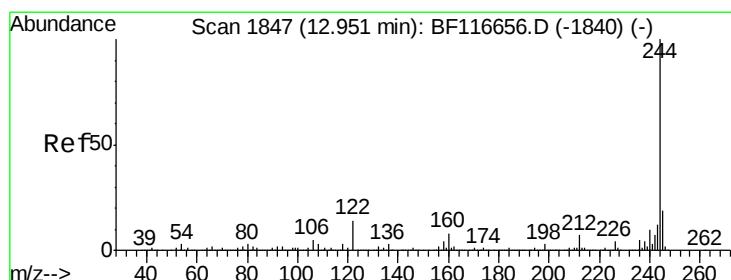
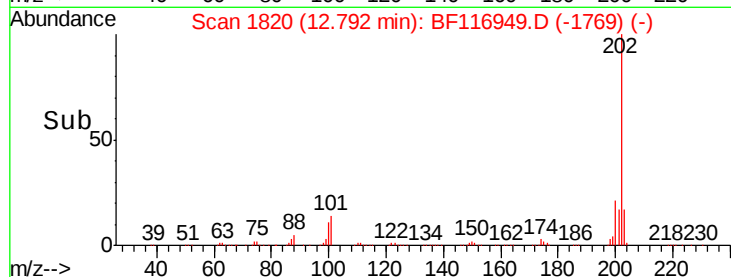
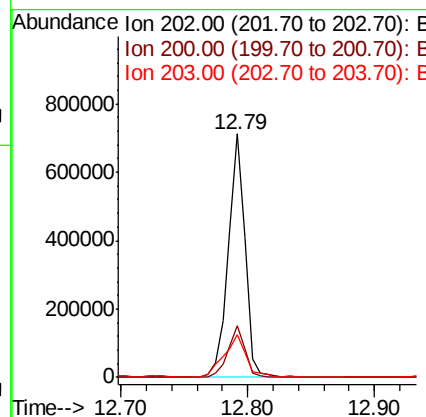
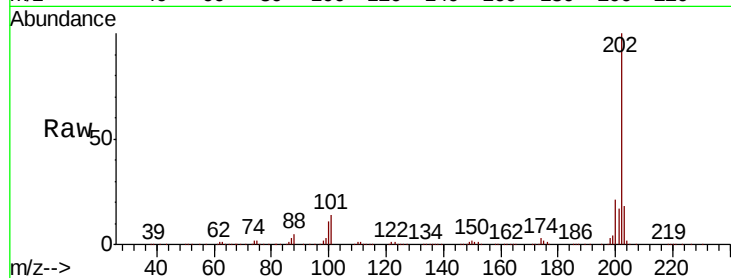
#78
Pvrene
Concen: 48.021 ng
RT: 12.79 min Scan# 1820
Delta R.T. 0.00 min
Lab File: BF116949.D
Acq: 11 Sep 2019 9:28

Instrument :
BNA_F
ClientSampleId :
SB-32-COMPDL2

Tot Ion	Ratio	Resp	Lower	Upper
202	100	655519		
200	21.2		16.5	24.7
203	17.6		13.7	20.5

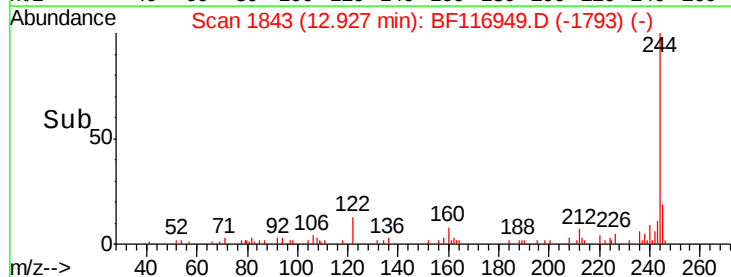
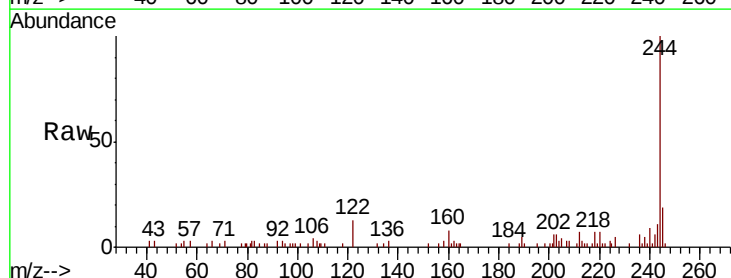
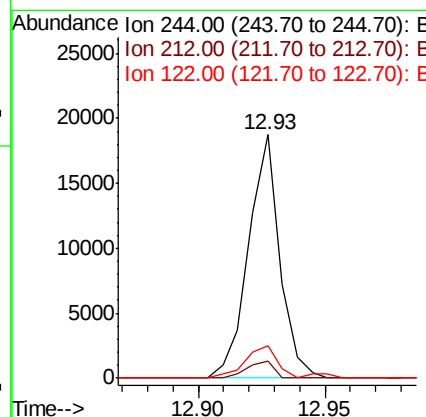
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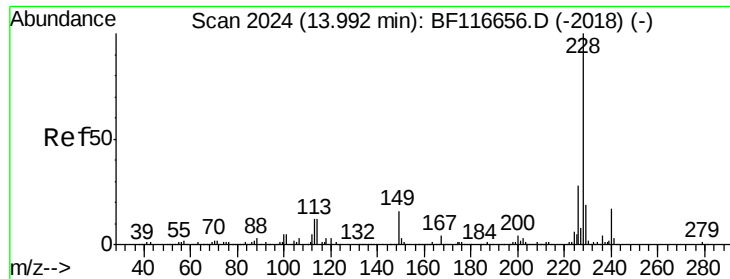
mohammad
9/16/2019 8:57:16 AM



#79
Terphenyl-d14
Concen: 1.937 ng
RT: 12.93 min Scan# 1843
Delta R.T. -0.01 min
Lab File: BF116949.D
Acq: 11 Sep 2019 9:28

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	16077		
212	7.0		6.1	9.1
122	13.2		10.2	15.4





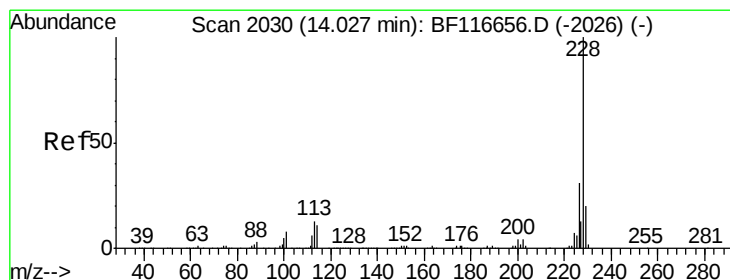
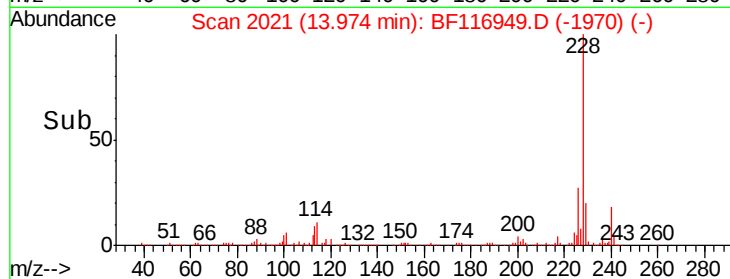
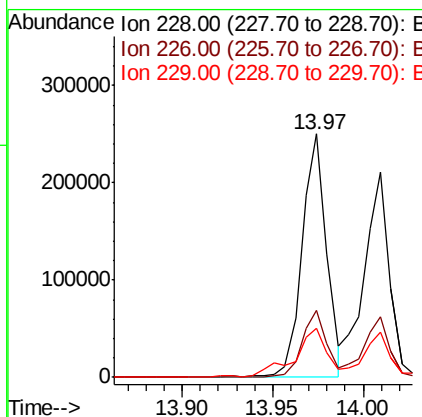
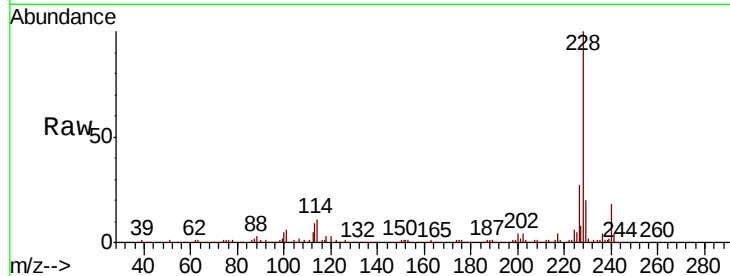
#81
Benzo(a)anthracene
Concen: 24.644 ng
RT: 13.97 min Scan# 2021
Delta R.T. 0.00 min
Lab File: BF116949.D
Acq: 11 Sep 2019 9:28

Instrument :
BNA_F
ClientSampleId :
SB-32-COMPDL2

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.0	33.0
229	20.3	16.4	24.6

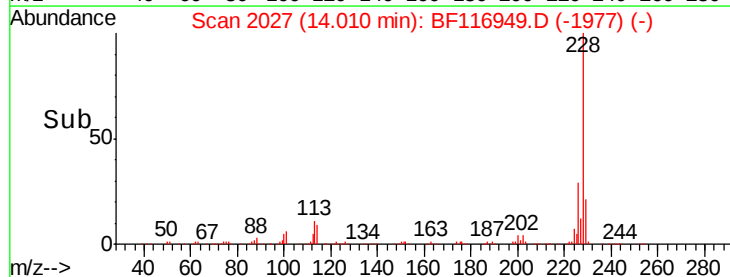
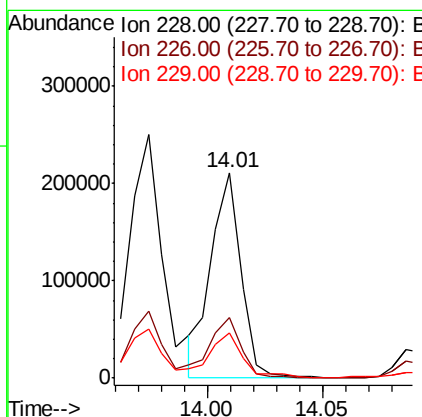
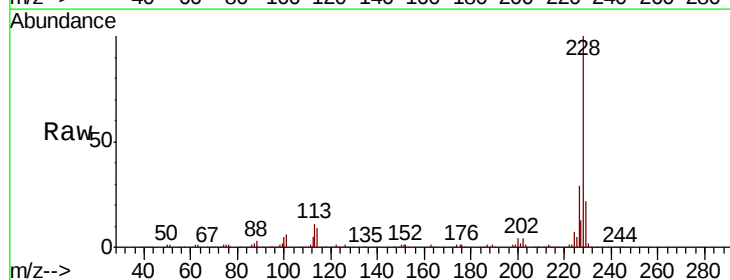
Manual Integrations
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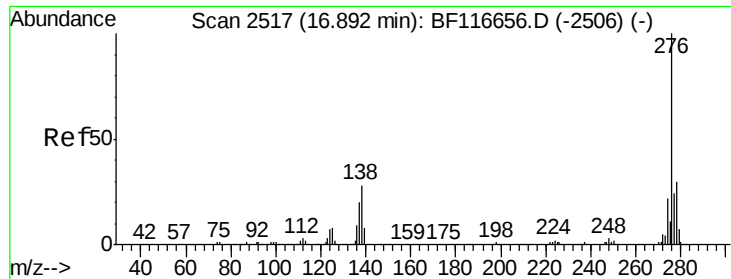
mohammad
9/16/2019 8:57:16 AM



#83
Chrysene
Concen: 19.117 ng
RT: 14.01 min Scan# 2027
Delta R.T. -0.01 min
Lab File: BF116949.D
Acq: 11 Sep 2019 9:28

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.5	24.0	36.0
229	21.8	15.4	23.0





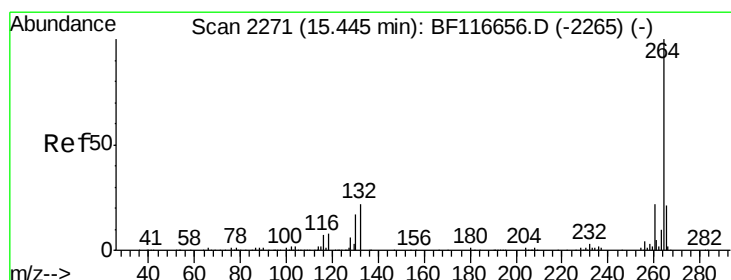
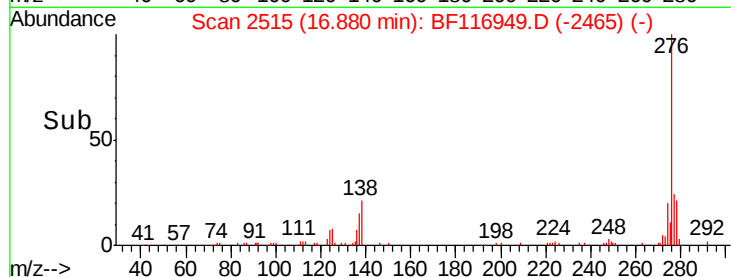
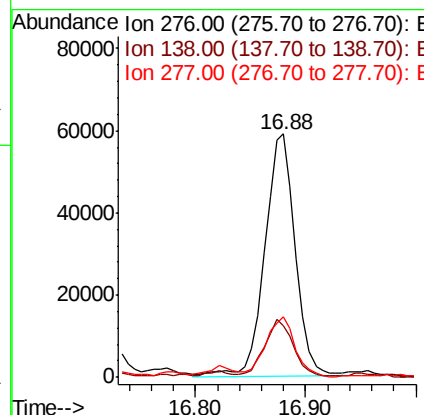
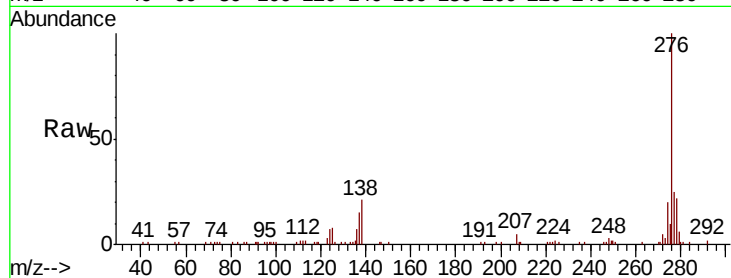
#86
Indeno(1,2,3-cd)pyrene
Concen: 14.163 ng
RT: 16.88 min Scan# 2515
Delta R.T. -0.01 min
Lab File: BF116949.D
Acq: 11 Sep 2019 9:28

Instrument :
BNA_F
ClientSampleId :
SB-32-COMPDL2

Tot Ion	Ratio	Lower	Upper
276	100		
138	23.7	19.4	29.2
277	24.2	20.5	30.7

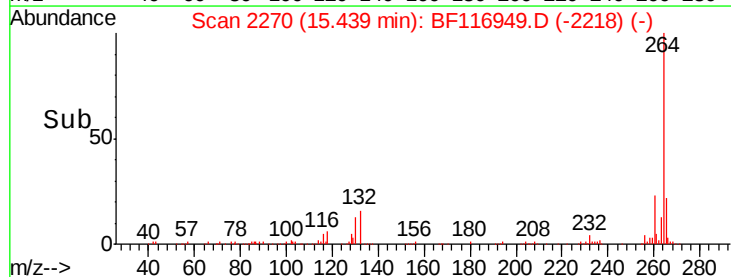
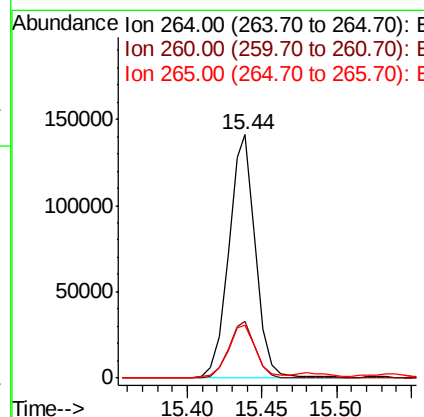
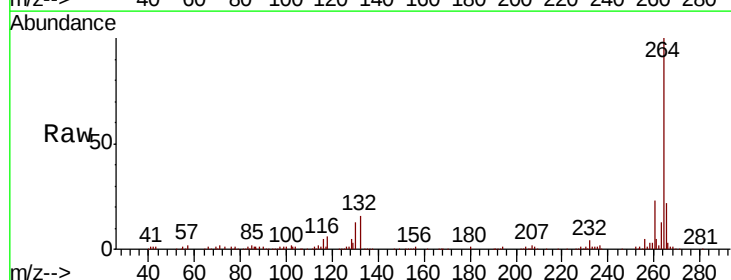
Manual Integrations
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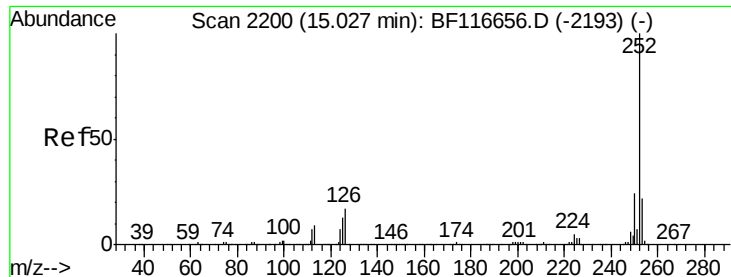
mohammad
9/16/2019 8:57:16 AM



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.44 min Scan# 2270
Delta R.T. 0.01 min
Lab File: BF116949.D
Acq: 11 Sep 2019 9:28

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.3	27.5
265	21.9	16.5	24.7





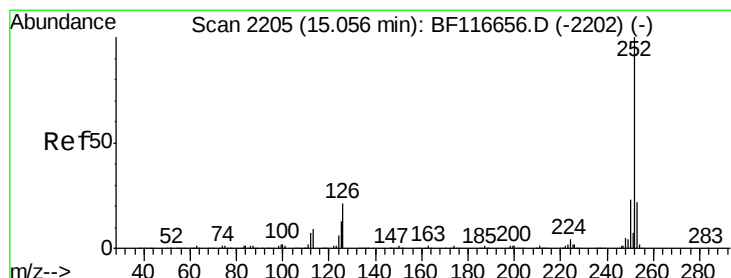
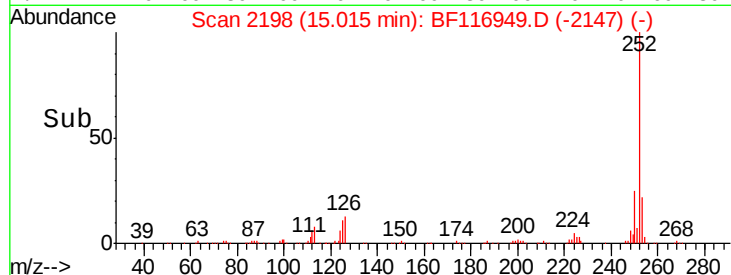
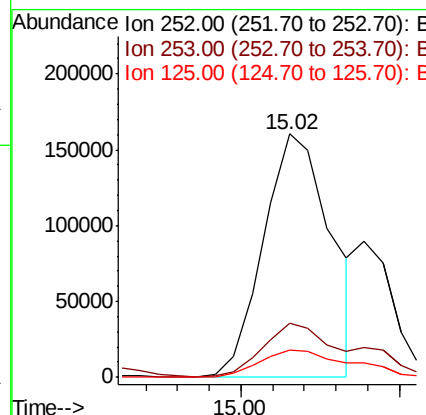
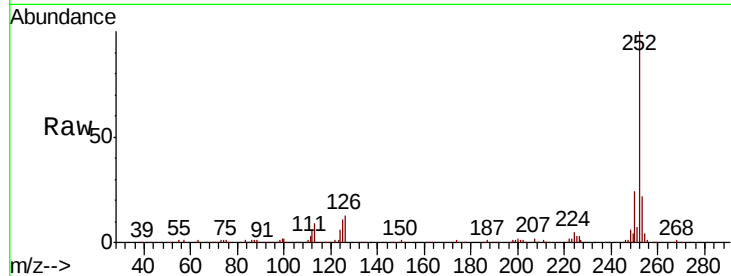
#88
Benzo(b)fluoranthene
Concen: 22.197 ng m
RT: 15.02 min Scan# 2198
Delta R.T. 0.00 min
Lab File: BF116949.D
Acq: 11 Sep 2019 9:28

Instrument :
BNA_F
ClientSampleId :
SB-32-COMPDL2

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.7	26.5
125	11.1	8.2	12.2

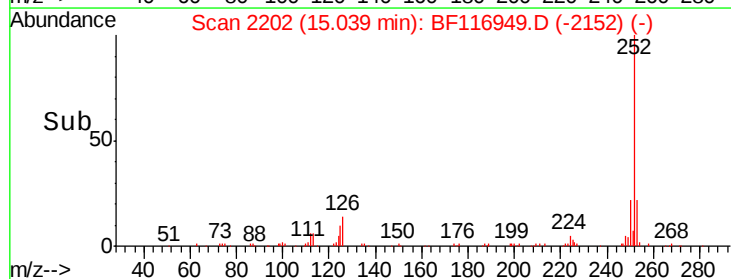
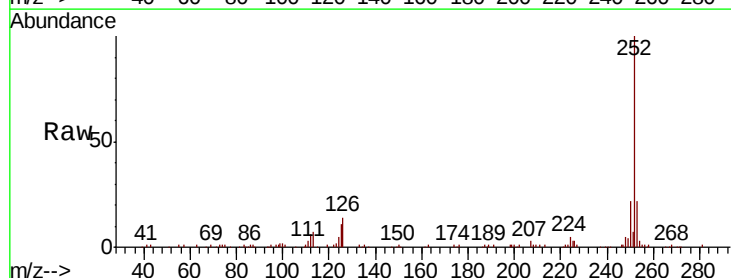
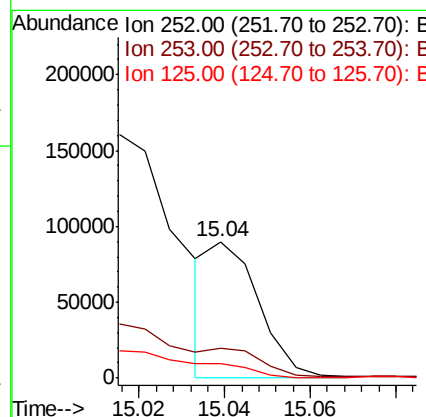
Manual Integrations
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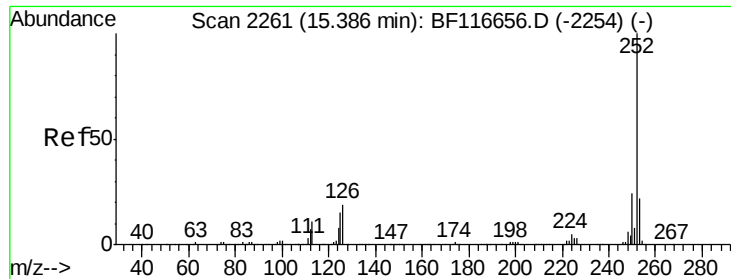
mohammad
9/16/2019 8:57:16 AM



#89
Benzo(k)fluoranthene
Concen: 7.420 ng m
RT: 15.04 min Scan# 2202
Delta R.T. -0.01 min
Lab File: BF116949.D
Acq: 11 Sep 2019 9:28

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.7	26.5
125	10.6	8.6	13.0





#90

Benzo(a)pyrene

Concen: 19.437 ng

RT: 15.37 min Scan# 2259

Delta R.T. -0.01 min

Lab File: BF116949.D

Acq: 11 Sep 2019 9:28

Instrument :

BNA_F

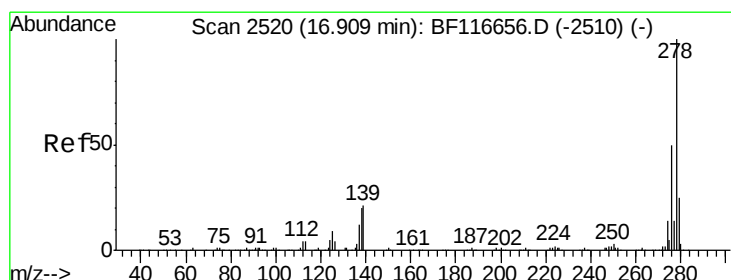
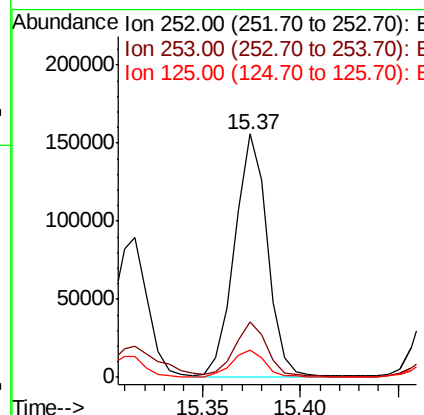
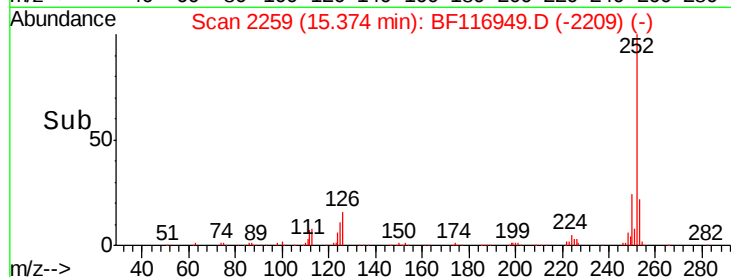
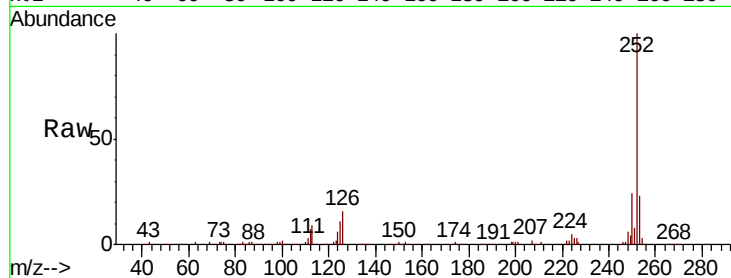
ClientSampleId :

SB-32-COMPDL2

Tot Ion:	252	Resp:	180900
Ion Ratio	Lower	Upper	
252	100		
253	22.6	18.1	27.1
125	11.2	9.8	14.8

Manual Integrations
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9/16/2019 8:57:16 AM



#91

Dibenzo(a,h)anthracene

Concen: 3.158 ng m

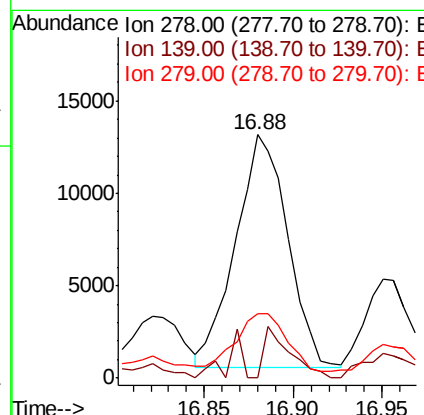
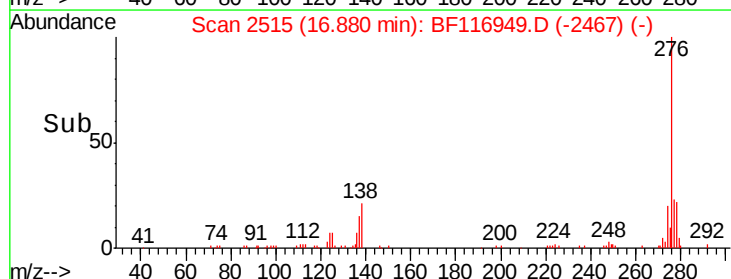
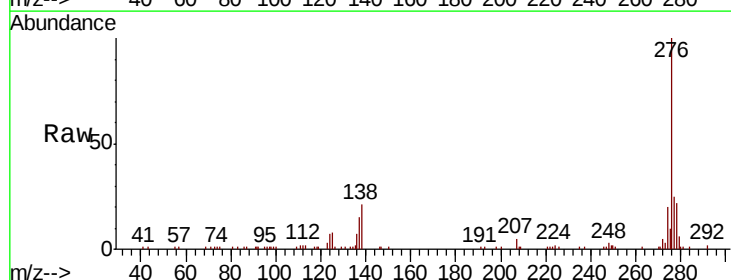
RT: 16.88 min Scan# 2515

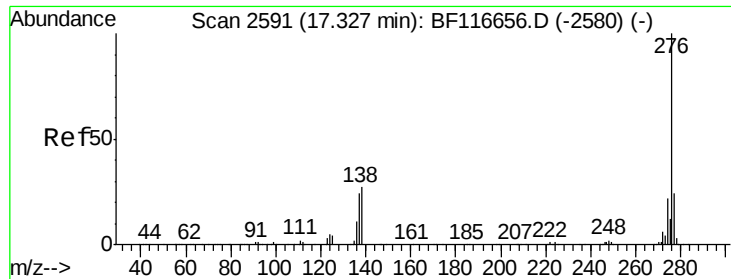
Delta R.T. -0.02 min

Lab File: BF116949.D

Acq: 11 Sep 2019 9:28

Tgt Ion:	278	Resp:	25726
Ion Ratio	Lower	Upper	
278	100		
139	0.0	12.4	18.6#
279	26.3	18.2	27.4





#92
 Benzo(a,h,i)perylene
 Concen: 12.031 ng
 RT: 17.32 min Scan# 2589
 Delta R.T. -0.01 min
 Lab File: BF116949.D
 Acq: 11 Sep 2019 9:28

Instrument :
 BNA_F
 ClientSampleId :
 SB-32-COMPDL2

Tot Ion:	276	Resp:	99958
Ion Ratio	Lower	Upper	
276	100		
277	24.2	18.5	27.7
138	21.6	16.2	24.2

Manual Integrations
 APPROVED

mohammad
 9/16/2019 8:57:16 AM

