

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070519\
 Data File : BE100395.D
 Acq On : 6 Jul 2019 00:02
 Operator : JU/SJ
 Sample : K3560-20 2X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-011-B224-062419

Manual Integrations
 APPROVED

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 7/8/2019 2:14:14 PM

Quant Time: Jul 06 03:37:21 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE062819.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Jun 28 14:06:53 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.62	152	595	0.40	ng	-0.02
7) Naphthalene-d8	10.42	136	2170	0.40	ng	-0.03
13) Acenaphthene-d10	14.30	164	1696	0.40	ng	-0.01
19) Phenanthrene-d10	17.04	188	5018	0.40	ng	-0.01
27) Chrysene-d12	21.23	240	7099	0.40	ng	-0.01
34) Perylene-d12	23.65	264	8513	0.40	ng	-0.01

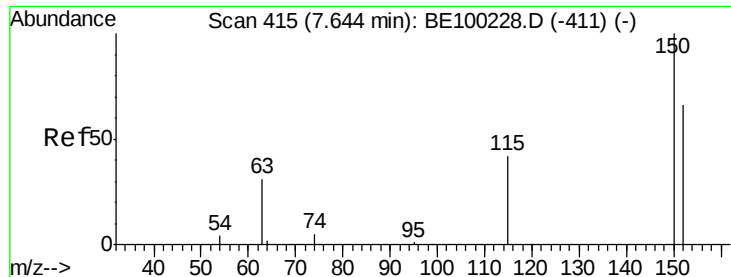
System Monitoring Compounds

4) 2-Fluorophenol	5.20	112	227	0.15	ng	-0.01
5) Phenol-d6	6.83	99	281	0.14	ng	-0.01
8) Nitrobenzene-d5	8.81	82	239	0.11	ng	-0.01
11) 2-Methylnaphthalene-d10	12.02	152	511	0.13	ng	-0.03
14) 2,4,6-Tribromophenol	15.80	330	181	0.15	ng	-0.03
15) 2-Fluorobiphenyl	12.91	172	706	0.11	ng	-0.03
25) Fluoranthene-d10	19.08	212	6237	0.09	ng	-0.02
29) Terphenyl-d14	19.68	244	1342	0.09	ng	-0.02

Target Compounds

						Qvalue
9) Naphthalene	10.47	128	1839	0.077	ng	# 90
12) 2-Methylnaphthalene	12.11	142	363	0.086	ng	# 92
16) Acenaphthylene	14.02	152	2626	0.323	ng	97
17) Acenaphthene	14.37	154	366	0.079	ng	# 86
18) Fluorene	15.34	166	1106	0.162	ng	# 90
23) Phenanthrene	17.08	178	31146	2.561	ng	100
24) Anthracene	17.17	178	2932	0.268	ng	# 94
26) Fluoranthene	19.11	202	48680	2.513	ng	98
28) Pyrene	19.47	202	72875	3.877	ng	96
30) Benzo(a)anthracene	21.22	228	36595m	1.568	ng	
31) Chrysene	21.27	228	55421	2.365	ng	97
32) Bis(2-ethylhexyl)phthalate	21.14	149	137604	4.113	ng	100
33) Indeno(1,2,3-cd)pyrene	26.20	276	24266	0.783	ng	# 95
35) Benzo(b)fluoranthene	22.91	252	53384	2.313	ng	# 98
36) Benzo(k)fluoranthene	22.95	252	18051m	0.701	ng	
37) Benzo(a)pyrene	23.54	252	30769	1.330	ng	# 97
38) Dibenzo(a,h)anthracene	26.21	278	6213	0.257	ng	# 78
39) Benzo(a,h,i)perylene	26.99	276	27734	1.117	ng	98

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



#1

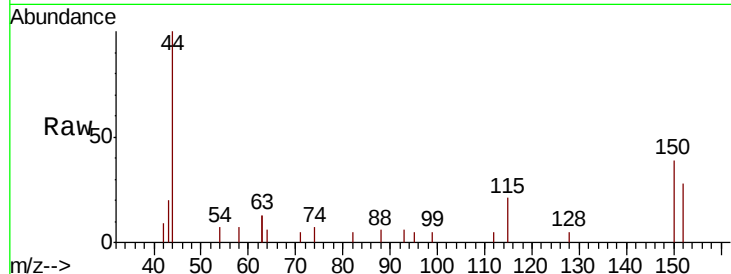
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.62 min Scan# 413
Delta R.T. -0.02 min
Lab File: BE100395.D
Acq: 6 Jul 2019 00:02

Instrument :
BNA_E
ClientSampleId :
PST-011-B224-062419

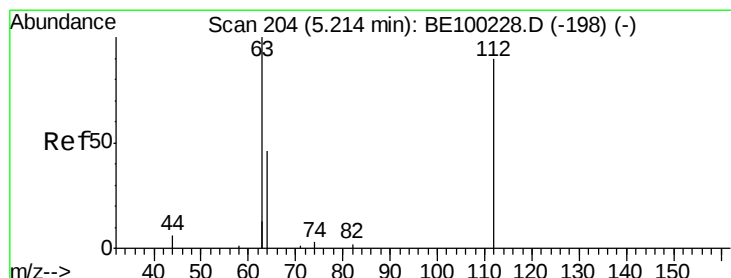
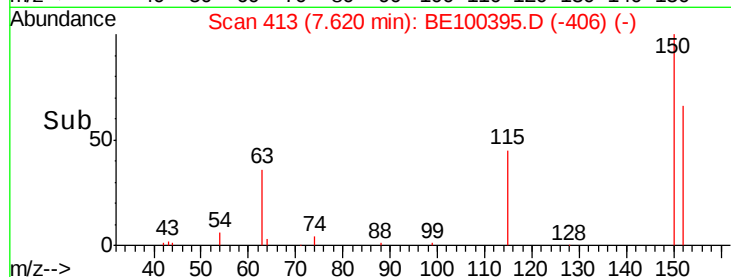
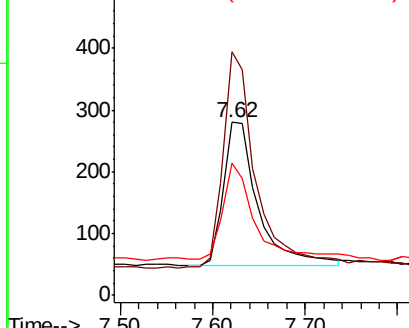
Tot Ion	Ratio	Lower	Upper
152	100		
150	140.7	114.5	171.7
115	76.8	57.1	85.7

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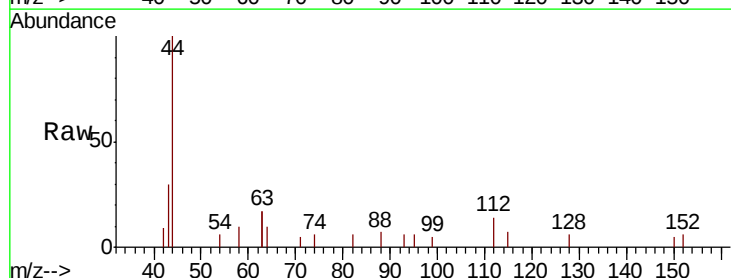
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



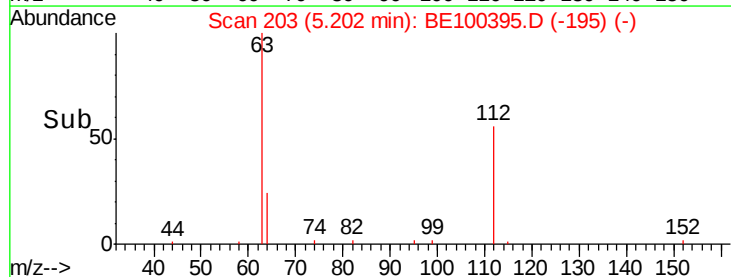
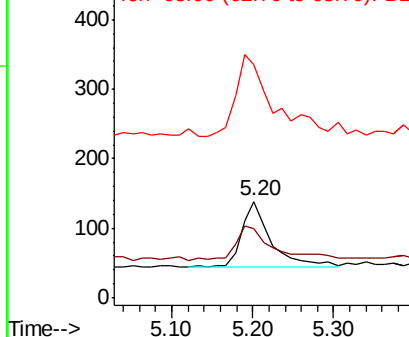
#4

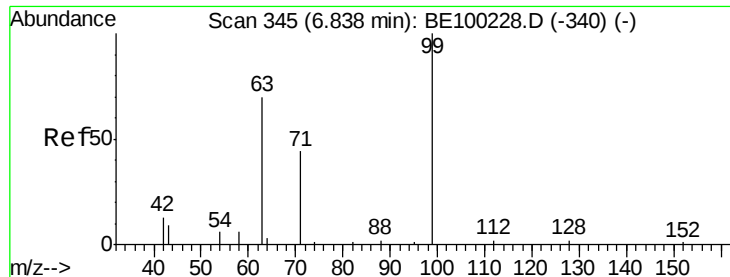
2-Fluorophenol
Concen: 0.150 ng
RT: 5.20 min Scan# 203
Delta R.T. -0.01 min
Lab File: BE100395.D
Acq: 6 Jul 2019 00:02

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.8	39.4	59.0#
63	165.6	104.5	156.7#



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE1
Ion 63.00 (62.70 to 63.70): BE1





#5

Phenol-d6

Concen: 0.141 ng

RT: 6.83 min Scan# 344

Delta R.T. -0.01 min

Lab File: BE100395.D

Acq: 6 Jul 2019 00:02

Instrument :

BNA_E

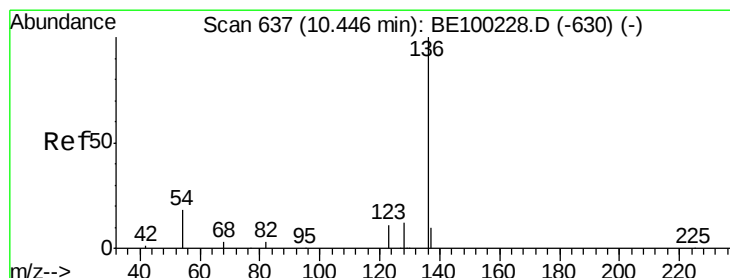
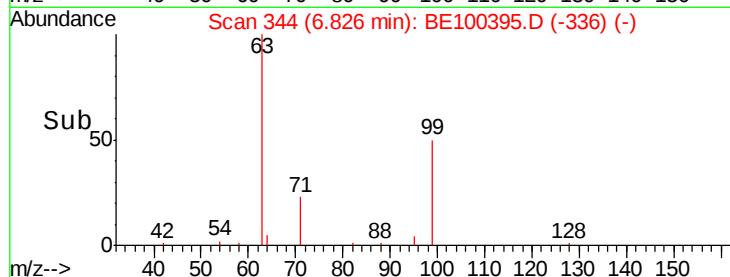
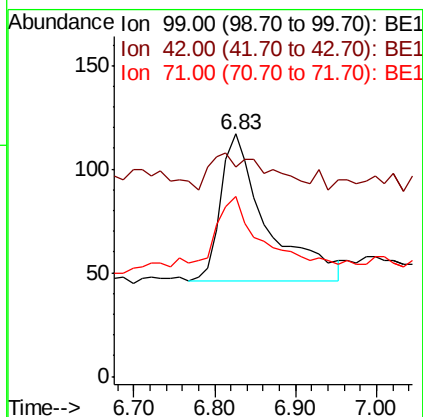
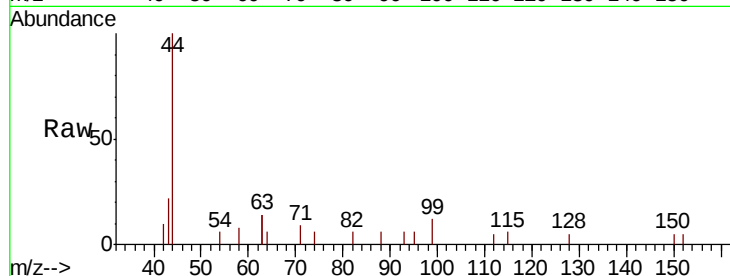
ClientSampleId :

PST-011-B224-062419

Tot Ion:	99	Resp:	281
Ion	Ratio	Lower	Upper
99	100		
42	31.0	11.2	16.8#
71	45.9	37.2	55.8

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#7

Naphthalene-d8

Concen: 0.400 ng

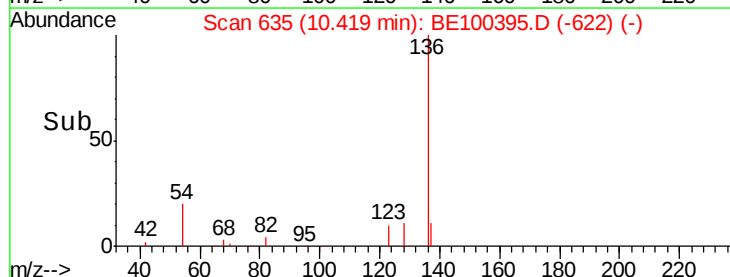
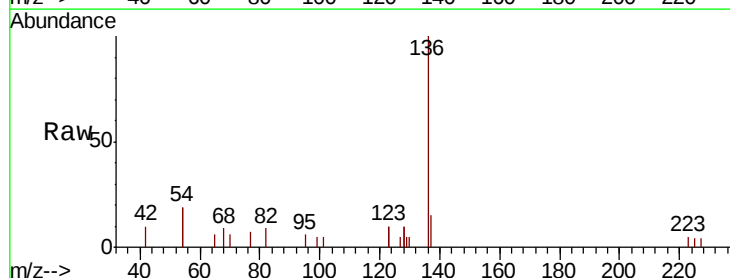
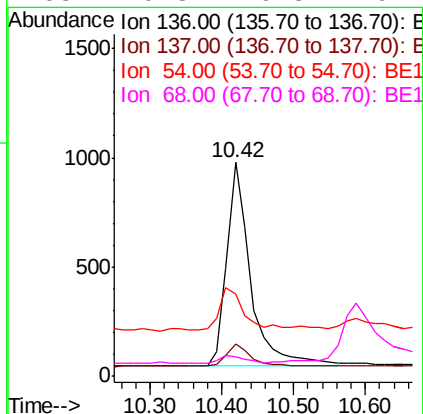
RT: 10.42 min Scan# 635

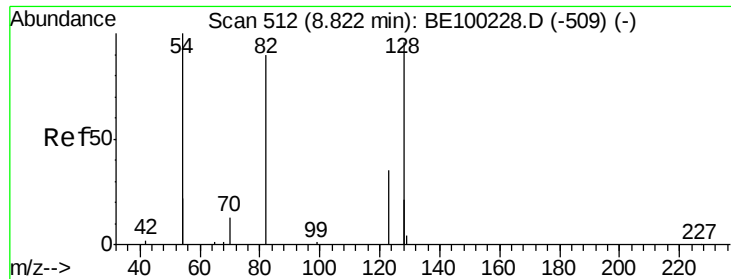
Delta R.T. -0.03 min

Lab File: BE100395.D

Acq: 6 Jul 2019 00:02

Tgt Ion:	136	Resp:	2170
Ion	Ratio	Lower	Upper
136	100		
137	15.0	11.8	17.8
54	38.6	27.7	41.5
68	9.3	6.8	10.2





#8

Nitrobenzene-d5

Concen: 0.111 ng

RT: 8.81 min Scan# 511

Delta R.T. -0.01 min

Lab File: BE100395.D

Acq: 6 Jul 2019 00:02

Instrument :

BNA_E

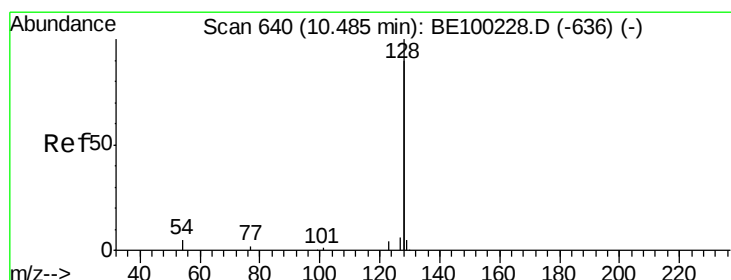
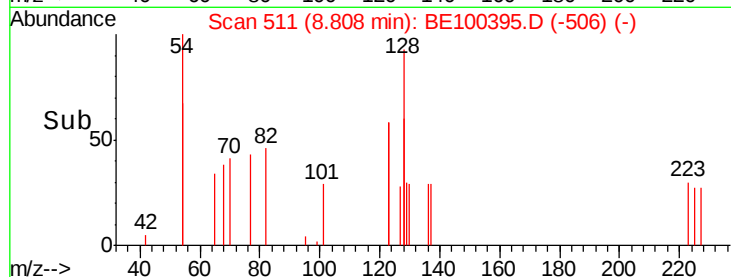
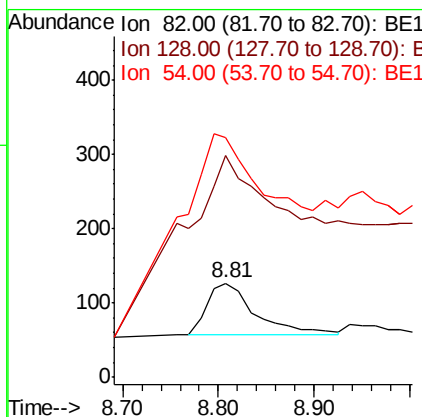
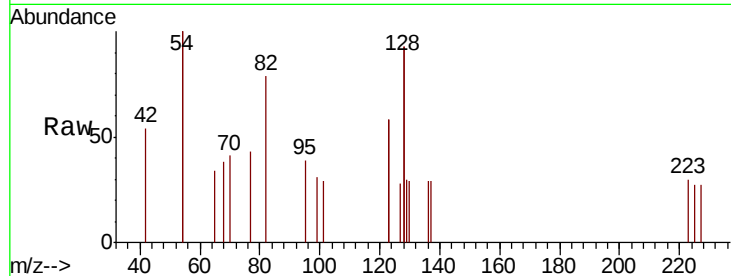
ClientSampleId :

PST-011-B224-062419

Tot Ion:	82	Resp:	239
Ion	Ratio	Lower	Upper
82	100		
128	234.6	140.9	211.3#
54	253.5	146.2	219.2#

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#9

Naphthalene

Concen: 0.077 ng

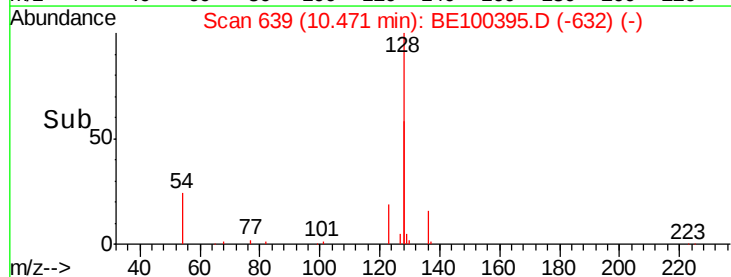
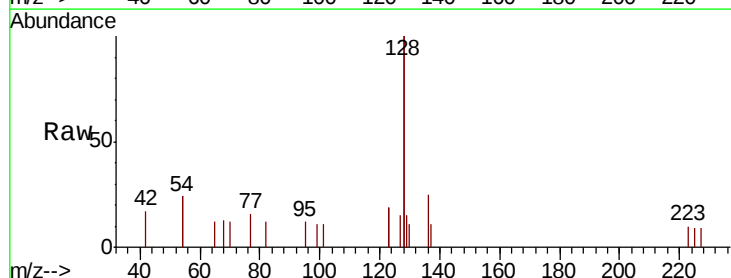
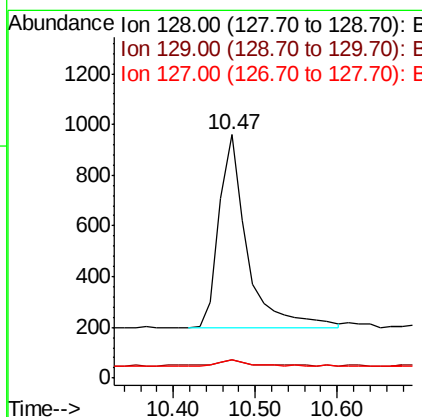
RT: 10.47 min Scan# 639

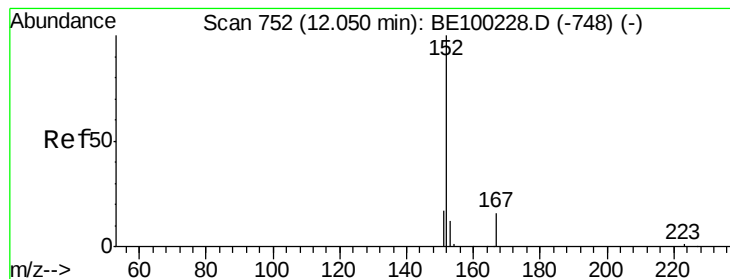
Delta R.T. -0.01 min

Lab File: BE100395.D

Acq: 6 Jul 2019 00:02

Tgt Ion:	128	Resp:	1839
Ion	Ratio	Lower	Upper
128	100		
129	7.4	3.0	4.6#
127	7.5	3.5	5.3#





#11

2-Methylnaphthalene-d10

Concen: 0.125 ng

RT: 12.02 min Scan# 750

Delta R.T. -0.03 min

Lab File: BE100395.D

Acq: 6 Jul 2019 00:02

Instrument :

BNA_E

ClientSampleId :

PST-011-B224-062419

Tot Ion:152 Resp: 511

Ion Ratio Lower Upper

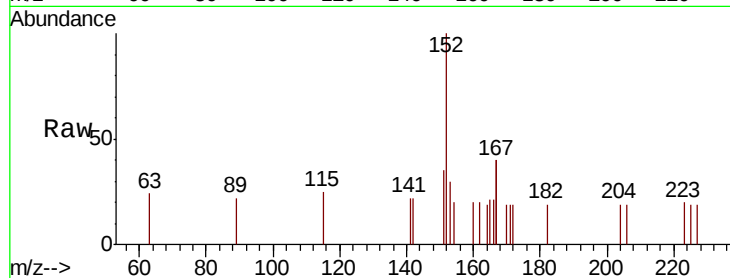
152 100

151 20.2 15.1 22.7

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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

12.02

250

200

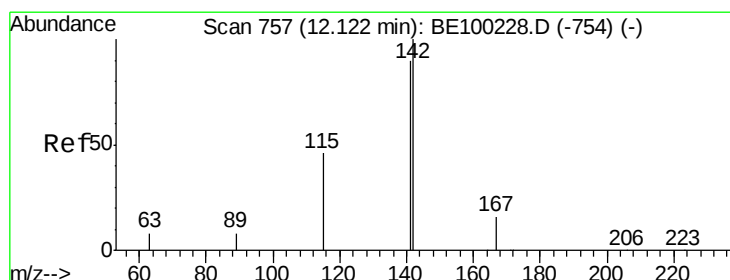
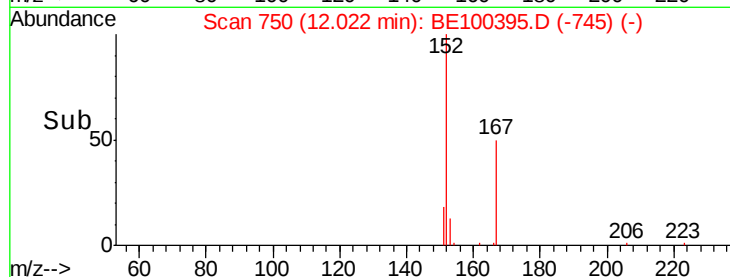
150

100

50

0

Time-->



#12

2-Methylnaphthalene

Concen: 0.086 ng

RT: 12.11 min Scan# 756

Delta R.T. -0.01 min

Lab File: BE100395.D

Acq: 6 Jul 2019 00:02

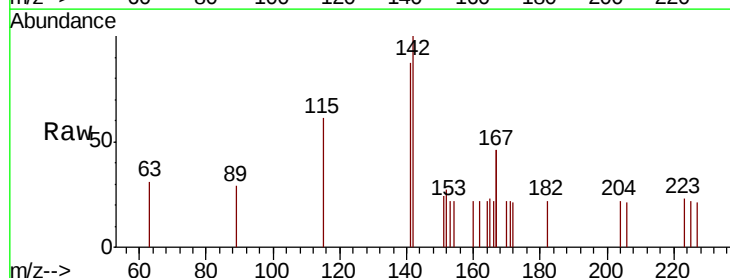
Tgt Ion:142 Resp: 363

Ion Ratio Lower Upper

142 100

141 87.1 72.4 108.6

115 61.2 40.4 60.6#



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

12.11

250

200

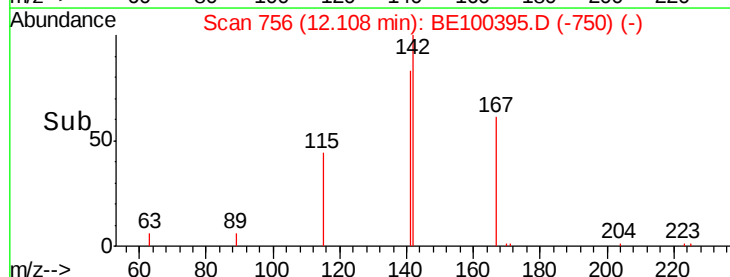
150

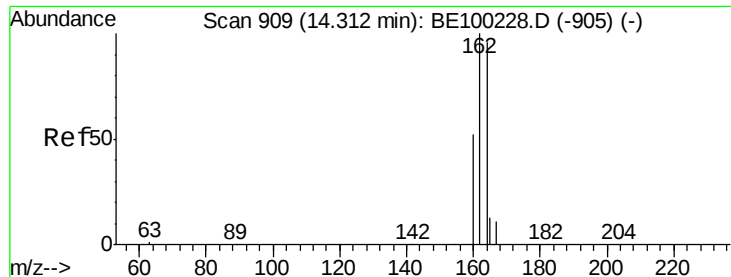
100

50

0

Time-->





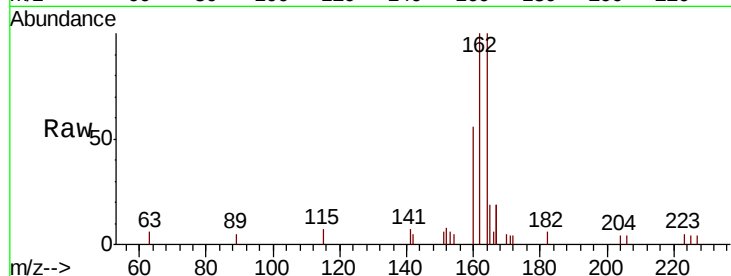
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.30 min Scan# 908
Delta R.T. -0.01 min
Lab File: BE100395.D
Acq: 6 Jul 2019 00:02

Instrument :
BNA_E
ClientSampleId :
PST-011-B224-062419

Tot Ion	Ratio	Lower	Upper
164	100		
162	100.4	83.4	125.0
160	56.0	45.0	67.6

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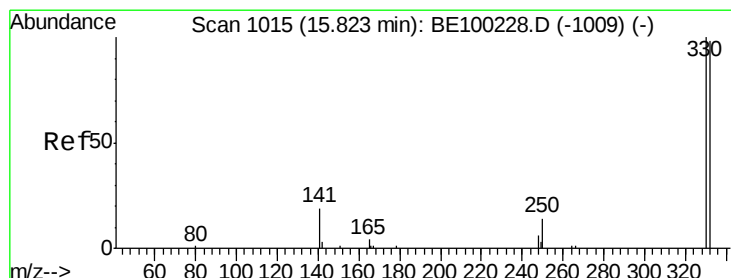
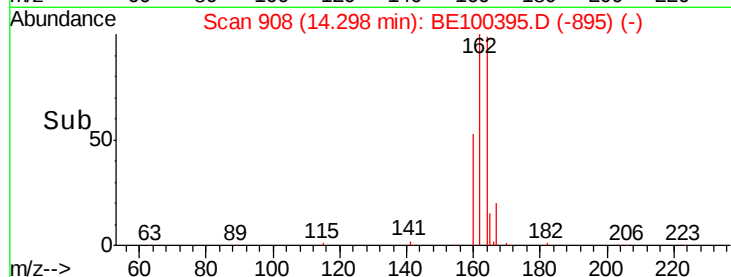
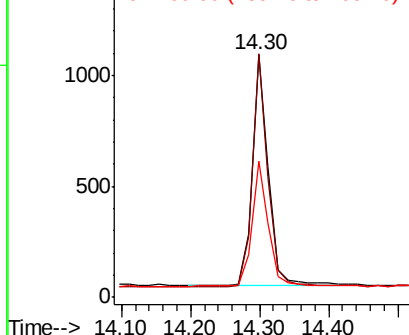


Abundance

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



#14
2,4,6-Tribromophenol
Concen: 0.153 ng
RT: 15.80 min Scan# 1013
Delta R.T. -0.03 min
Lab File: BE100395.D
Acq: 6 Jul 2019 00:02

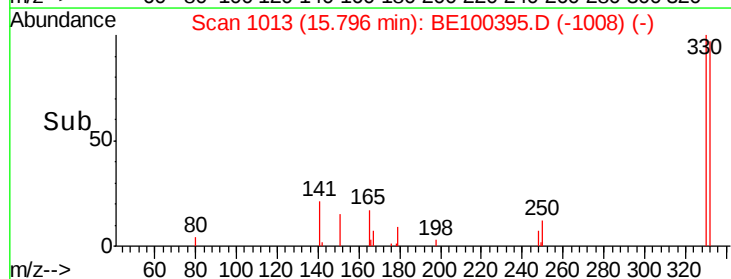
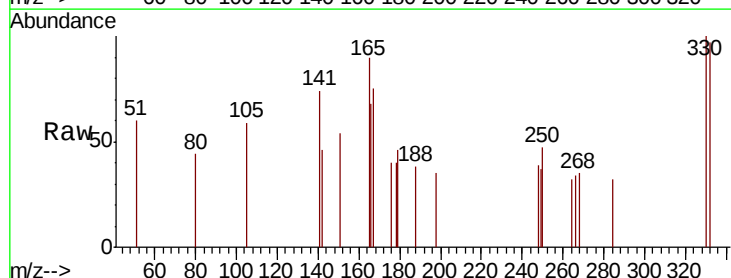
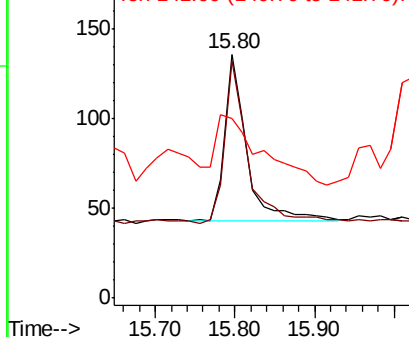
Tgt Ion	Ratio	Lower	Upper
330	100		
332	101.1	77.0	115.4
141	82.9	22.0	33.0#

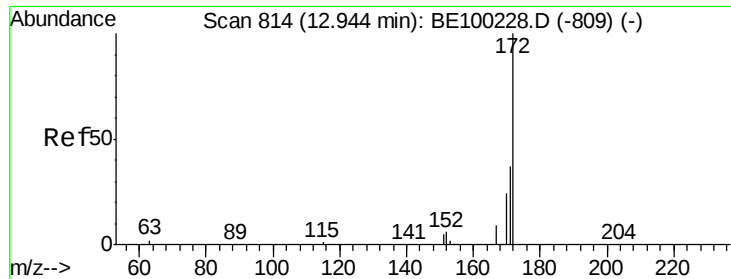
Abundance

Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





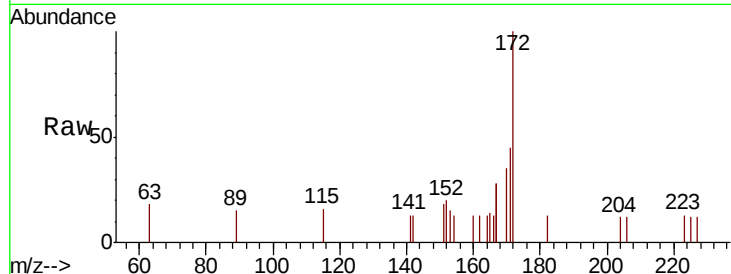
#15
2-Fluorobiphenyl
Concen: 0.107 ng
RT: 12.91 min Scan# 812
Delta R.T. -0.03 min
Lab File: BE100395.D
Acq: 6 Jul 2019 00:02

Instrument :
BNA_E
ClientSampleId :
PST-011-B224-062419

Tot Ion	Ratio	Lower	Upper
172	100		
171	44.9	31.9	47.9
170	34.7	22.2	33.2

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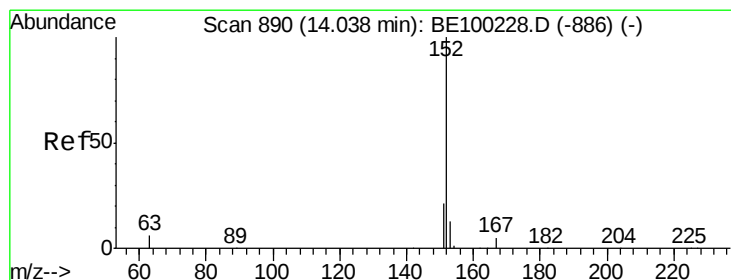
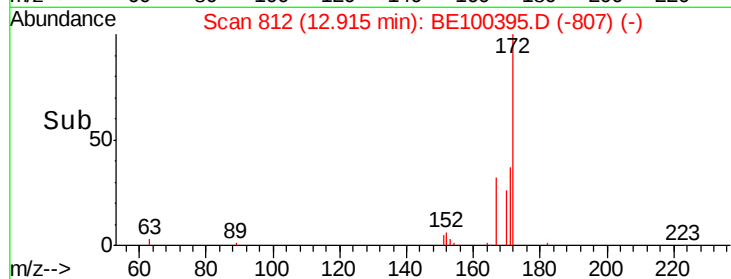
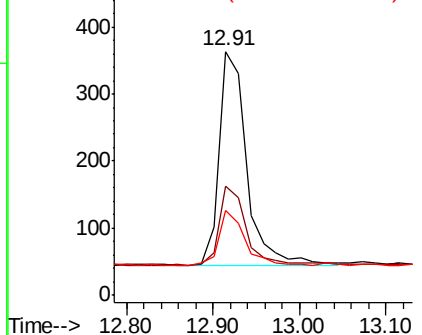


Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16
Acenaphthylene
Concen: 0.323 ng
RT: 14.02 min Scan# 889
Delta R.T. -0.01 min
Lab File: BE100395.D
Acq: 6 Jul 2019 00:02

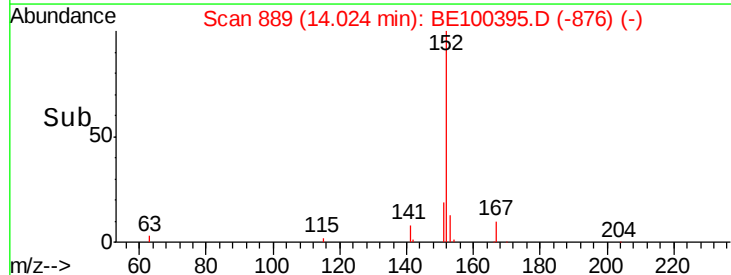
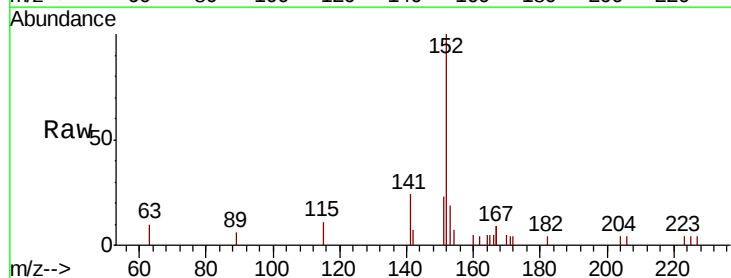
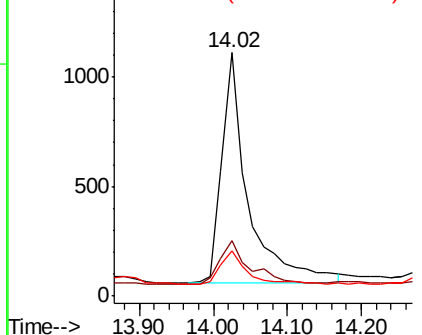
Tgt Ion	Ratio	Lower	Upper
152	100		
151	22.5	16.6	25.0
153	14.2	10.5	15.7

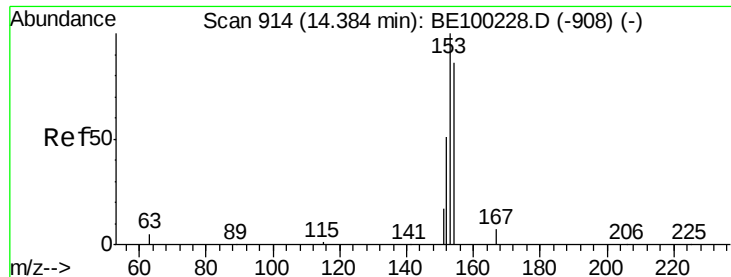
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





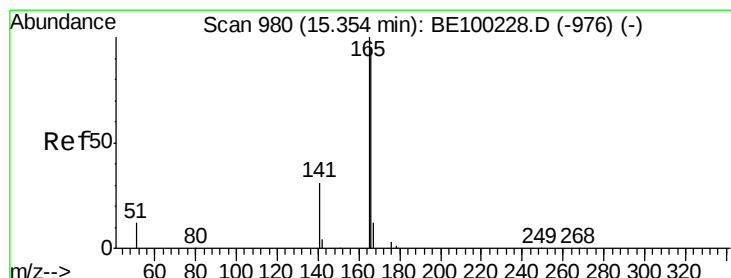
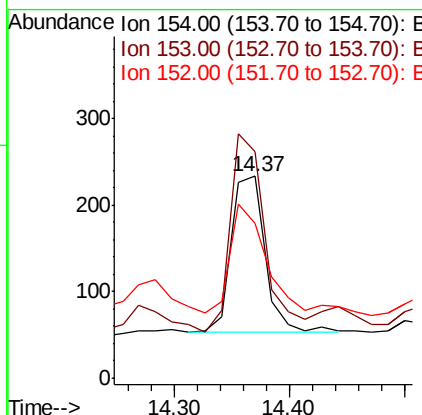
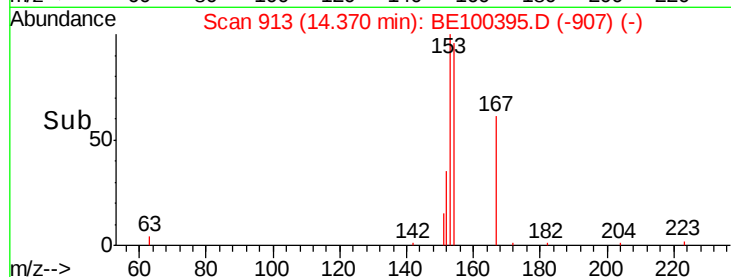
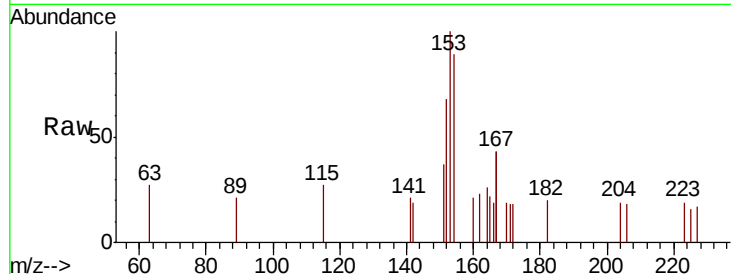
#17
Acenaphthene
Concen: 0.079 ng
RT: 14.37 min Scan# 913
Delta R.T. -0.01 min
Lab File: BE100395.D
Acq: 6 Jul 2019 00:02

Instrument :
BNA_E
ClientSampleId :
PST-011-B224-062419

Tot Ion	Ratio	Lower	Upper
154	100		
153	130.1	93.4	140.2
152	76.2	49.4	74.2#

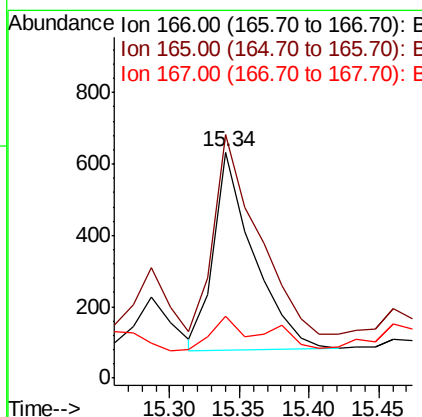
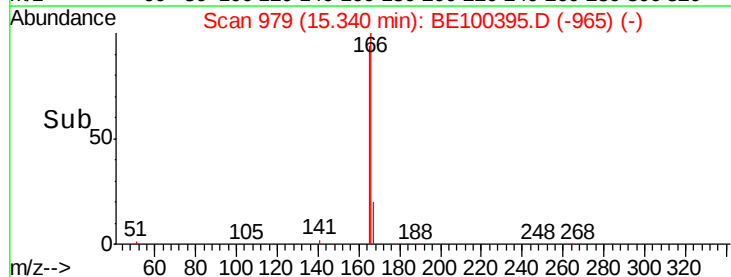
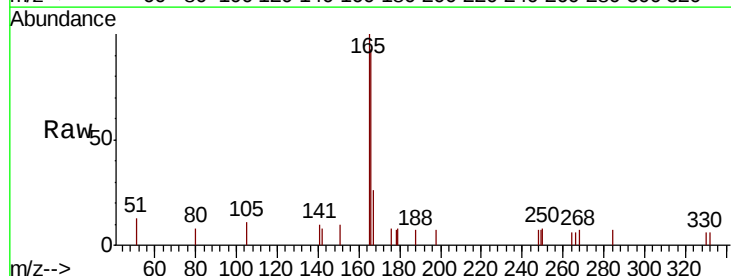
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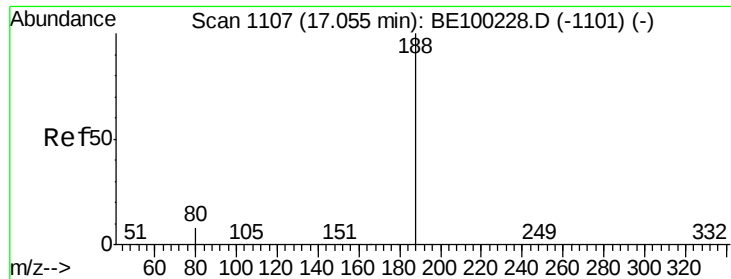
mohammad
7/8/2019 2:14:14 PM



#18
Fluorene
Concen: 0.162 ng
RT: 15.34 min Scan# 979
Delta R.T. -0.01 min
Lab File: BE100395.D
Acq: 6 Jul 2019 00:02

Tgt Ion	Ratio	Lower	Upper
166	100		
165	110.2	81.1	121.7
167	22.7	10.7	16.1#





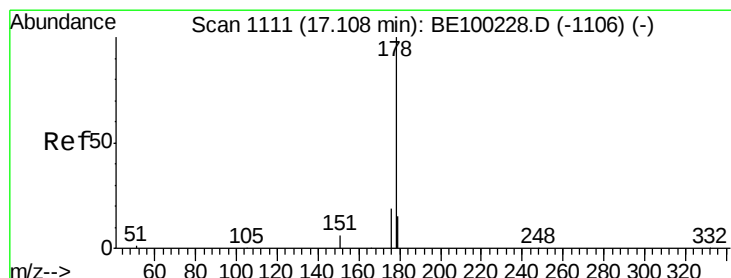
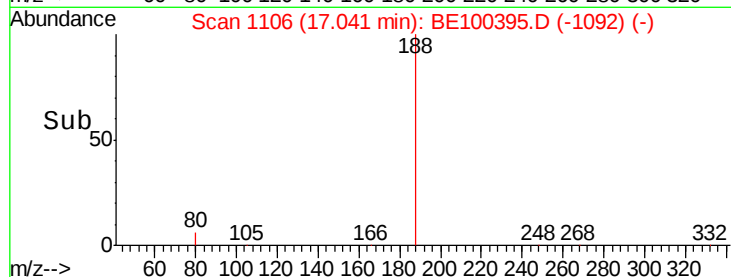
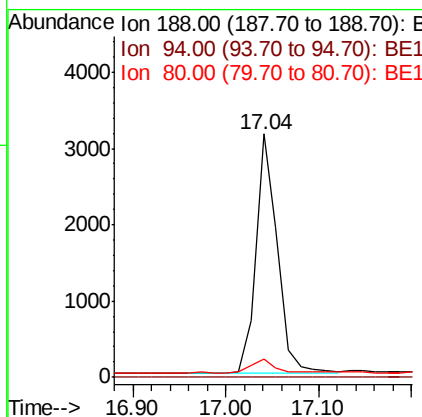
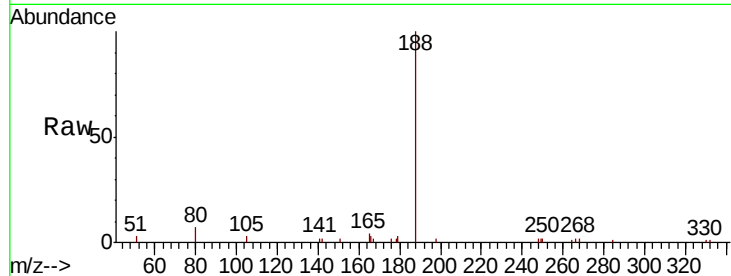
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.04 min Scan# 1106
Delta R.T. -0.01 min
Lab File: BE100395.D
Acq: 6 Jul 2019 00:02

Instrument :
BNA_E
ClientSampleId :
PST-011-B224-062419

Tot Ion	Ratio	Resp	Lower	Upper
188	100	5018		
94	0.0	0.0	0.0	0.0
80	7.5	7.6	11.4	

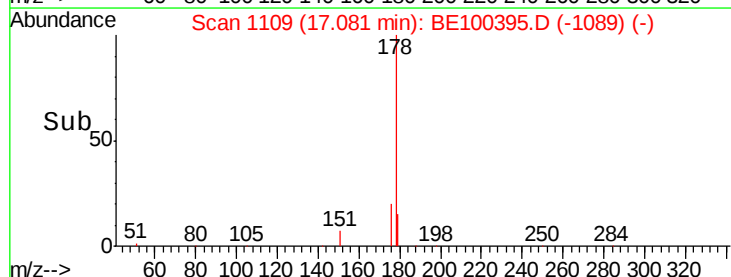
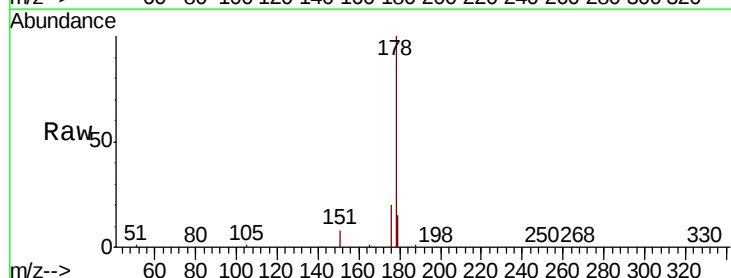
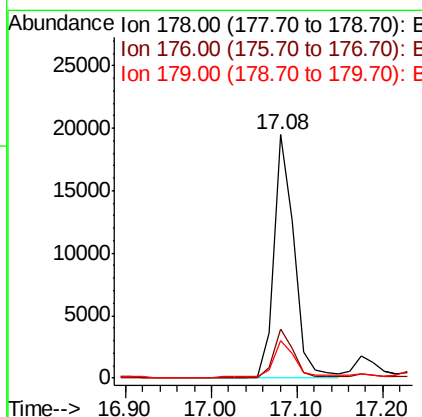
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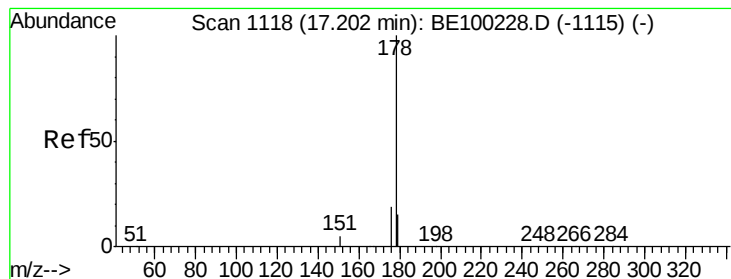
mohammad
7/8/2019 2:14:14 PM



#23
Phenanthrene
Concen: 2.561 ng
RT: 17.08 min Scan# 1109
Delta R.T. -0.03 min
Lab File: BE100395.D
Acq: 6 Jul 2019 00:02

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	31146		
176	19.8	15.9	23.9	
179	15.5	12.2	18.2	





#24

Anthracene

Concen: 0.268 ng

RT: 17.17 min Scan# 1116

Delta R.T. -0.03 min

Lab File: BE100395.D

Acq: 6 Jul 2019 00:02

Instrument :

BNA_E

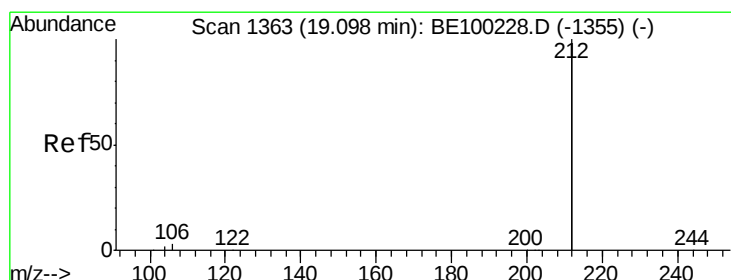
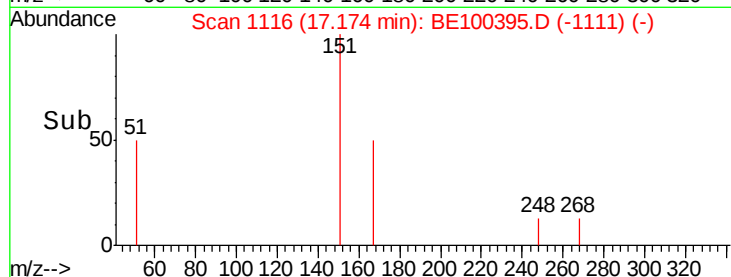
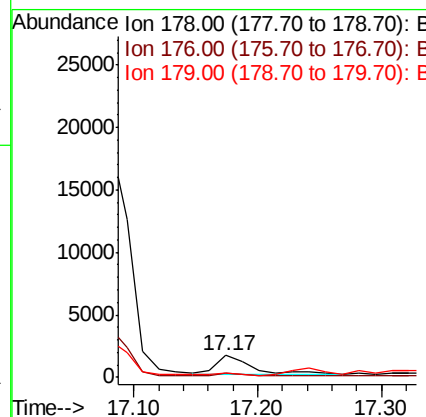
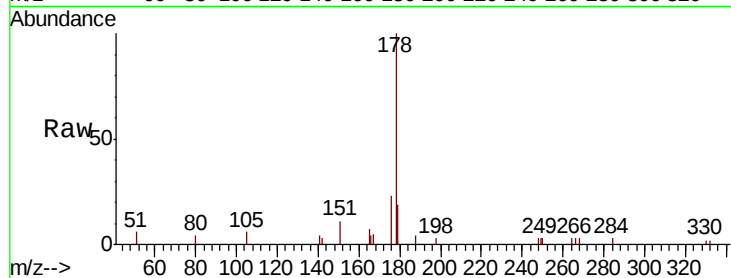
ClientSampleId :

PST-011-B224-062419

Tot Ion:	178	Resp:	2932
Ion Ratio	Lower	Upper	
178	100		
176	19.9	15.3	22.9
179	10.2	12.2	18.2#

Manual Integrations
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#25

Fluoranthene-d10

Concen: 0.086 ng

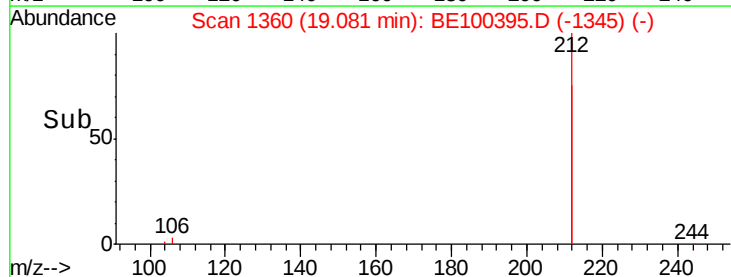
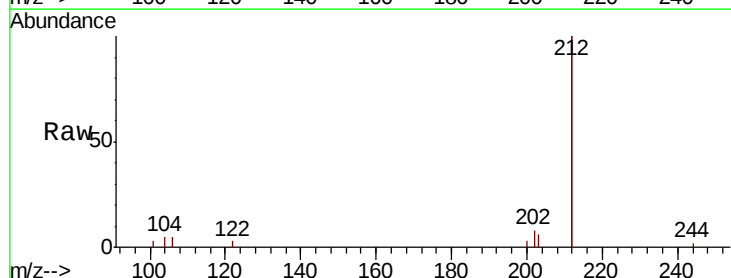
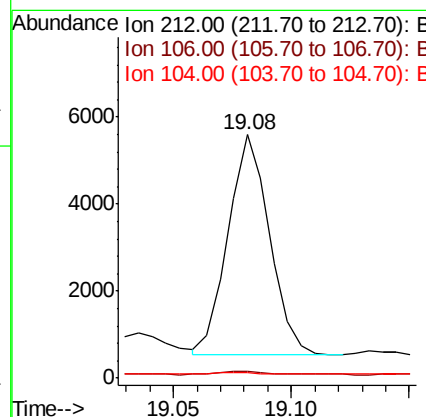
RT: 19.08 min Scan# 1360

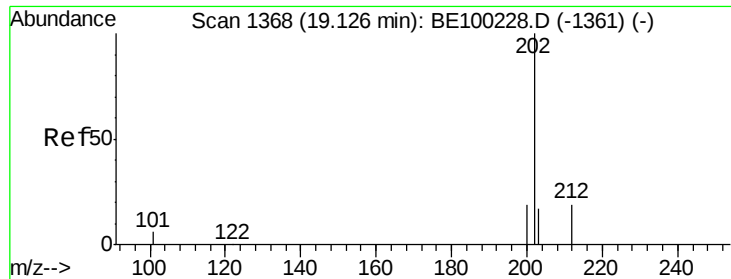
Delta R.T. -0.02 min

Lab File: BE100395.D

Acq: 6 Jul 2019 00:02

Tgt Ion:	212	Resp:	6237
Ion Ratio	Lower	Upper	
212	100		
106	1.9	1.3	1.9
104	1.2	0.8	1.2#





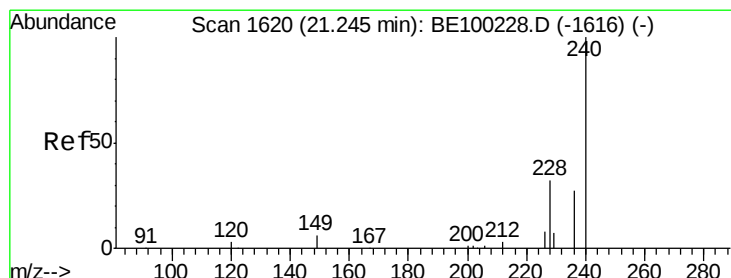
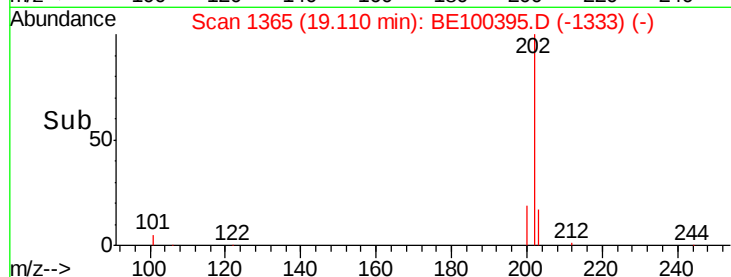
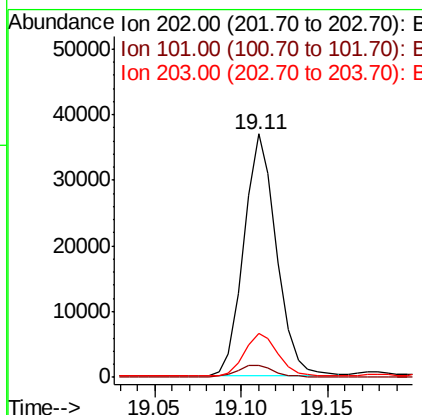
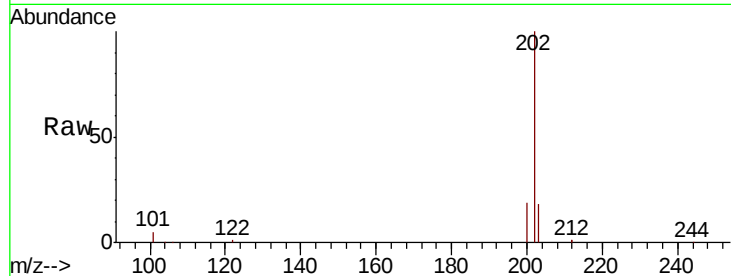
#26
 Fluoranthene
 Concen: 2.513 ng
 RT: 19.11 min Scan# 1365
 Delta R.T. -0.02 min
 Lab File: BE100395.D
 Acq: 6 Jul 2019 00:02

Instrument :
 BNA_E
 ClientSampleId :
 PST-011-B224-062419

Tot Ion	Ratio	Lower	Upper
202	100		
101	5.3	4.6	7.0
203	18.1	13.7	20.5

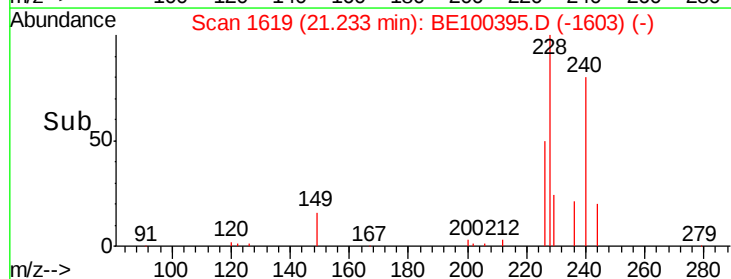
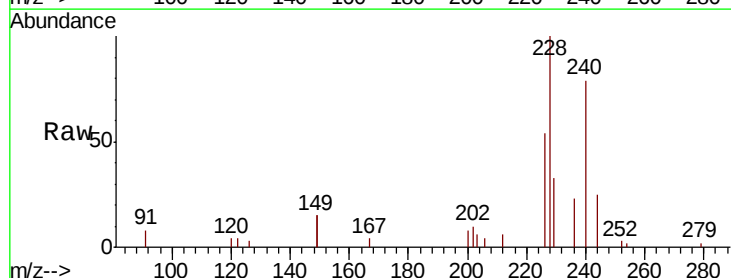
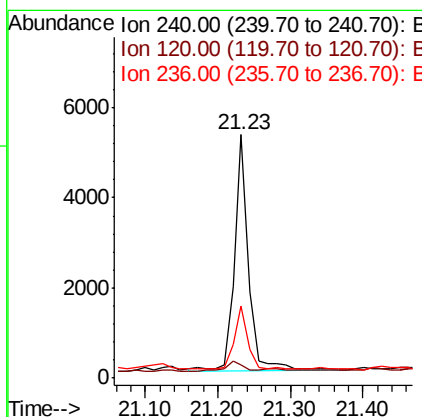
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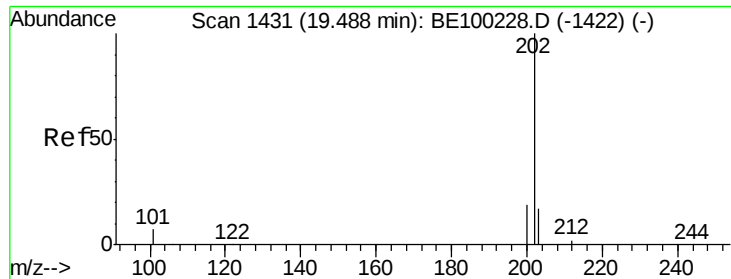
mohammad
 7/8/2019 2:14:14 PM



#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.23 min Scan# 1619
 Delta R.T. -0.01 min
 Lab File: BE100395.D
 Acq: 6 Jul 2019 00:02

Tgt Ion	Ratio	Lower	Upper
240	100		
120	5.5	3.3	4.9#
236	29.7	22.6	34.0





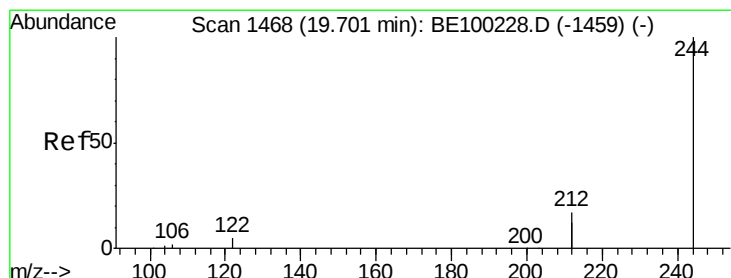
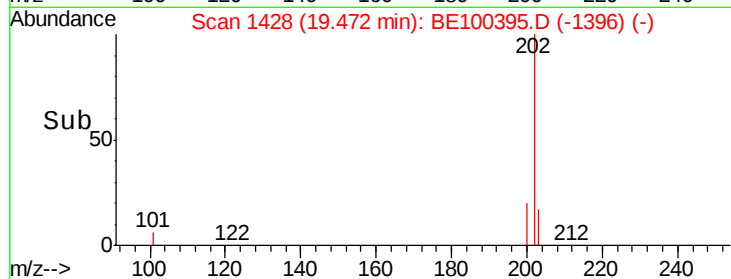
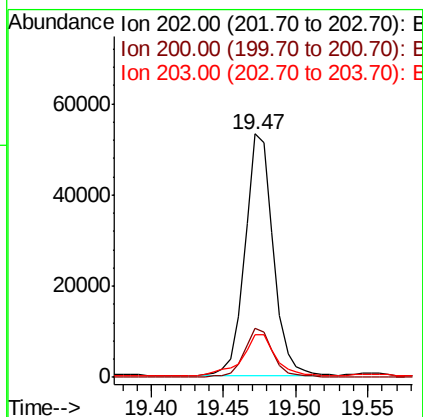
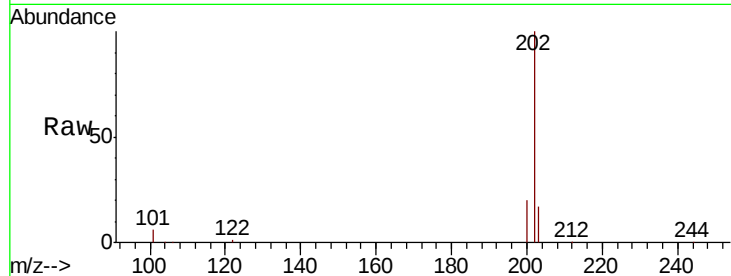
#28
Pvrene
Concen: 3.877 ng
RT: 19.47 min Scan# 1428
Delta R.T. -0.02 min
Lab File: BE100395.D
Acq: 6 Jul 2019 00:02

Instrument :
BNA_E
ClientSampleId :
PST-011-B224-062419

Tot Ion	Ratio	Lower	Upper
202	100		
200	19.8	15.6	23.4
203	20.6	14.0	21.0

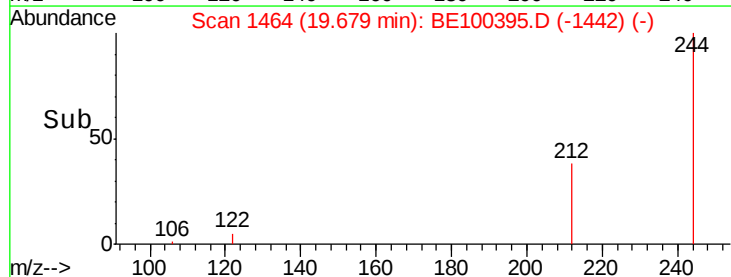
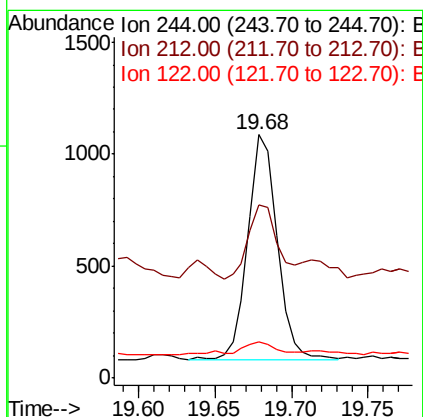
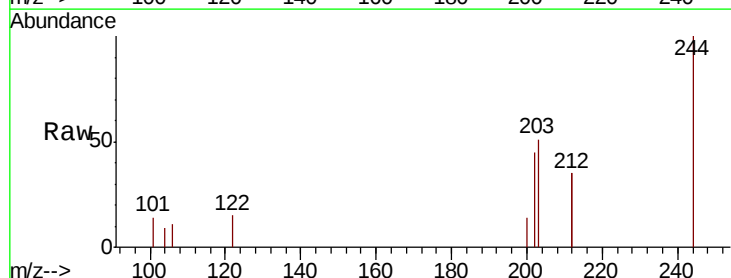
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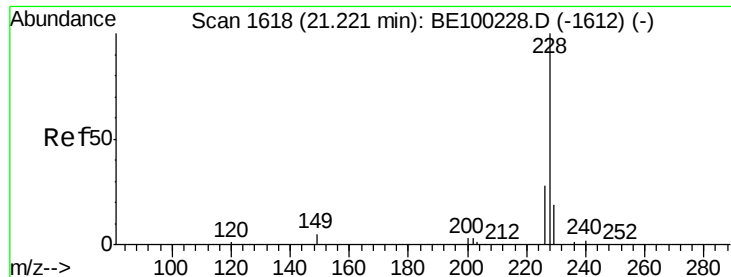
mohammad
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#29
Terphenyl-d14
Concen: 0.091 ng
RT: 19.68 min Scan# 1464
Delta R.T. -0.02 min
Lab File: BE100395.D
Acq: 6 Jul 2019 00:02

Tgt Ion	Ratio	Lower	Upper
244	100		
212	71.0	27.3	40.9#
122	14.6	4.7	7.1#





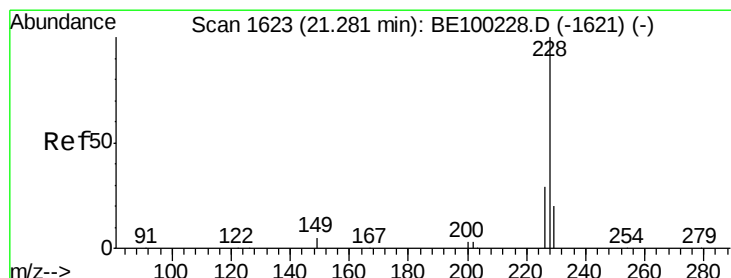
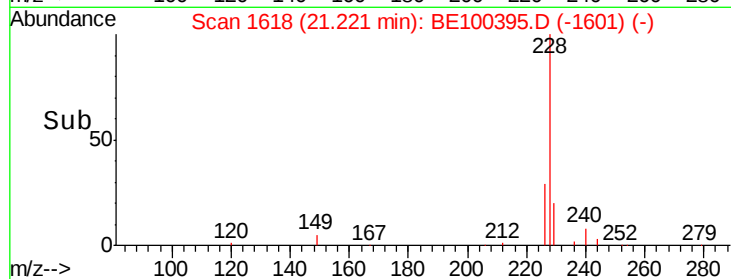
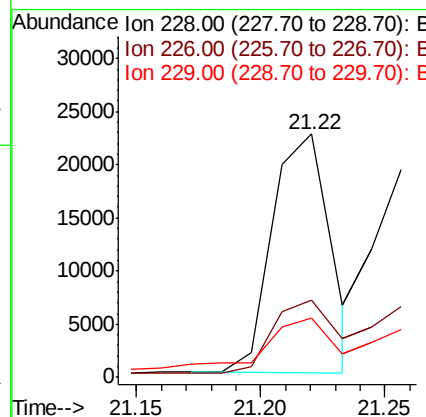
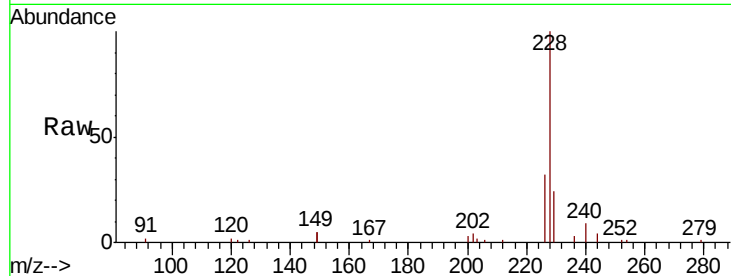
#30
Benzo(a)anthracene
Concen: 1.568 ng m
RT: 21.22 min Scan# 1618
Delta R.T. -0.00 min
Lab File: BE100395.D
Acq: 6 Jul 2019 00:02

Instrument :
BNA_E
ClientSampleId :
PST-011-B224-062419

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.6	23.2	34.8
229	24.5	15.7	23.5

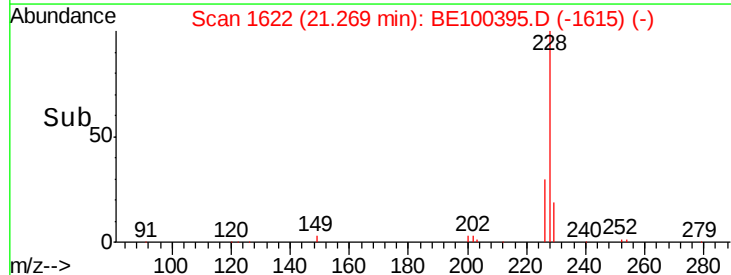
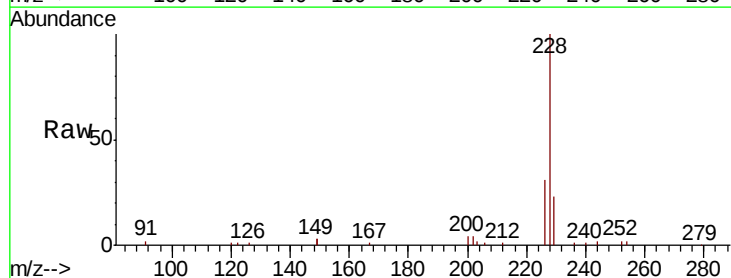
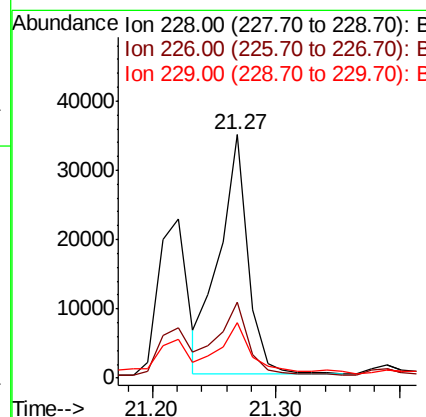
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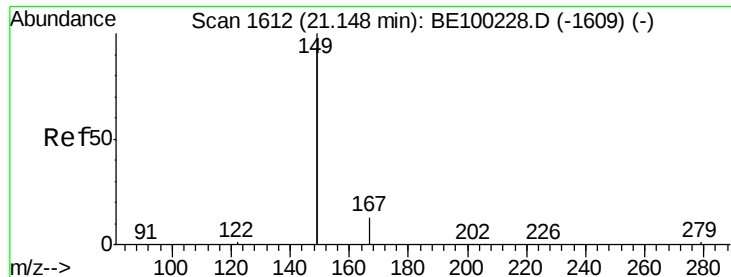
mohammad
7/8/2019 2:14:14 PM



#31
Chrysene
Concen: 2.365 ng
RT: 21.27 min Scan# 1622
Delta R.T. -0.01 min
Lab File: BE100395.D
Acq: 6 Jul 2019 00:02

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.0	23.9	35.9
229	22.6	16.5	24.7





#32

Bis(2-ethylhexyl)phthalate

Concen: 4.113 ng

RT: 21.14 min Scan# 1611

Delta R.T. -0.01 min

Lab File: BE100395.D

Acq: 6 Jul 2019 00:02

Instrument :

BNA_E

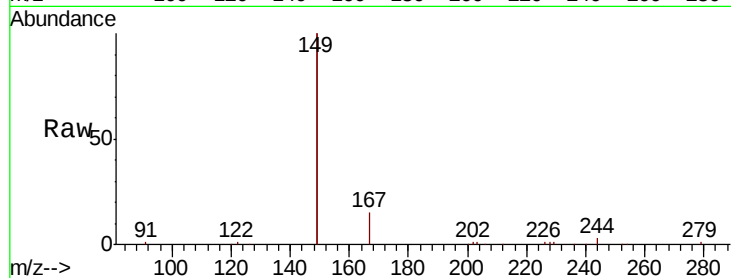
ClientSampleId :

PST-011-B224-062419

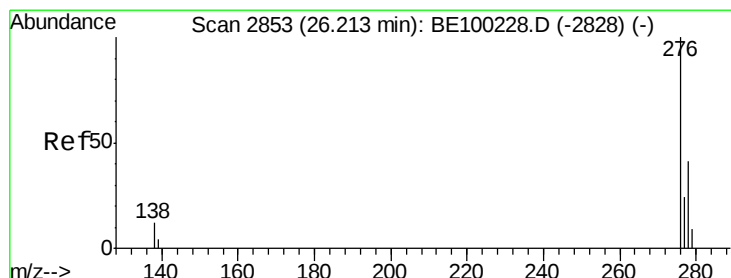
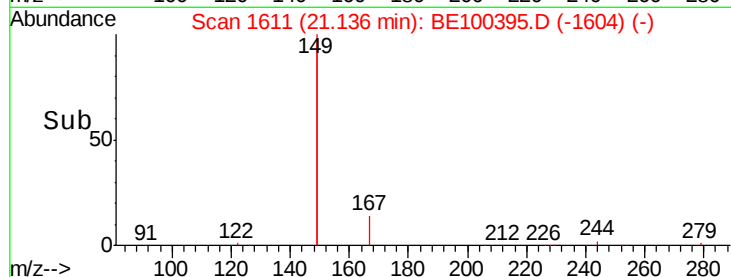
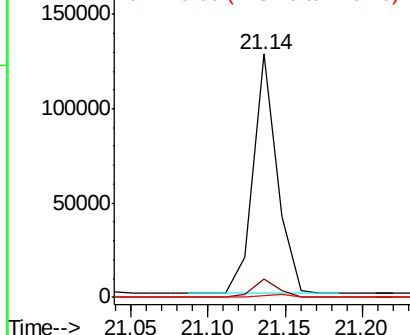
Tot Ion:	149	Resp:	137604
Ion Ratio	Lower	Upper	
149	100		
167	7.3	5.8	8.8
279	1.4	1.1	1.7

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Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.783 ng

RT: 26.20 min Scan# 2850

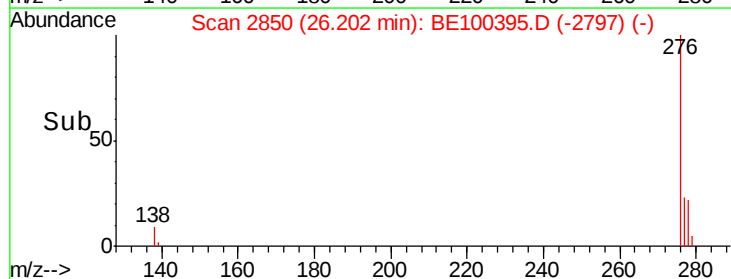
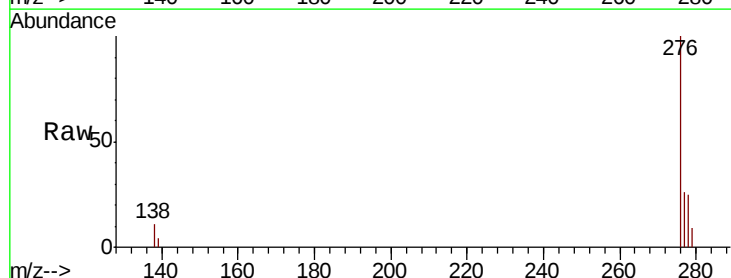
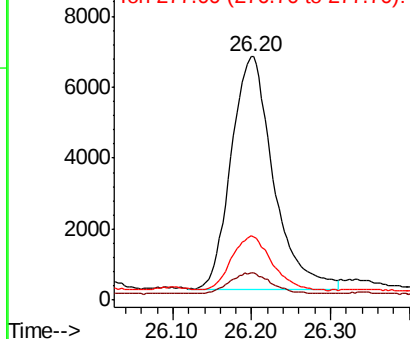
Delta R.T. -0.01 min

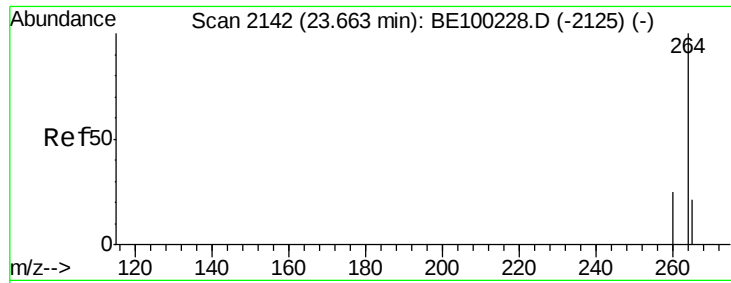
Lab File: BE100395.D

Acq: 6 Jul 2019 00:02

Tgt Ion:	276	Resp:	24266
Ion Ratio	Lower	Upper	
276	100		
138	9.0	9.4	14.0#
277	22.2	19.2	28.8

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





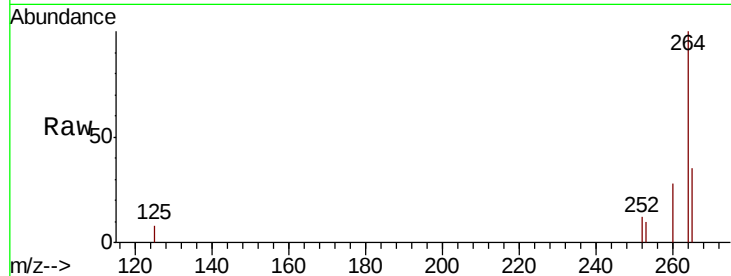
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.65 min Scan# 2139
Delta R.T. -0.01 min
Lab File: BE100395.D
Acq: 6 Jul 2019 00:02

Instrument :
BNA_E
ClientSampleId :
PST-011-B224-062419

Tot Ion	Ratio	Lower	Upper
264	100		
260	27.5	20.8	31.2
265	34.8	21.8	32.6

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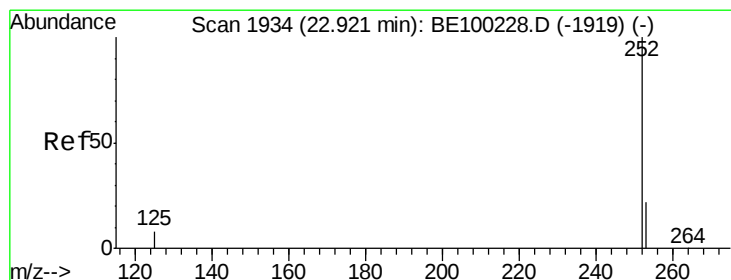
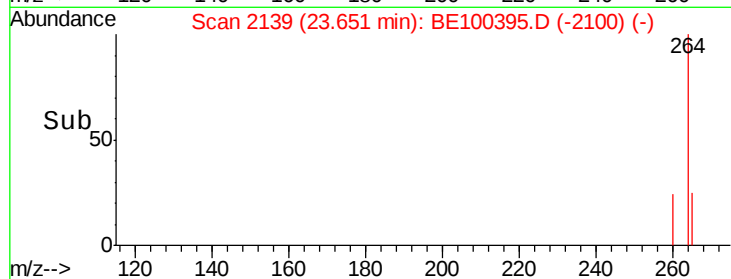
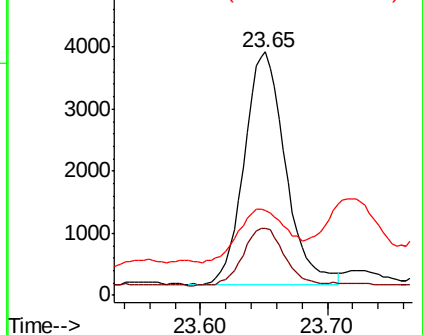


Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#35
Benzo(b)fluoranthene
Concen: 2.313 ng
RT: 22.91 min Scan# 1931
Delta R.T. -0.01 min
Lab File: BE100395.D
Acq: 6 Jul 2019 00:02

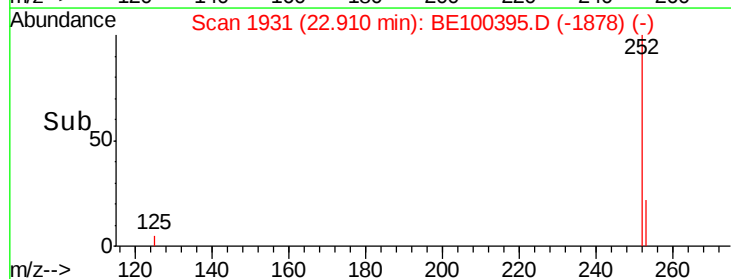
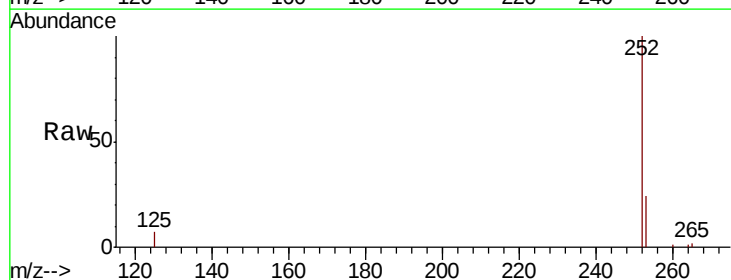
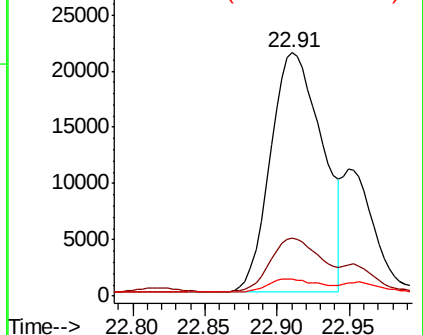
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	19.2	28.8
125	6.9	7.4	11.0

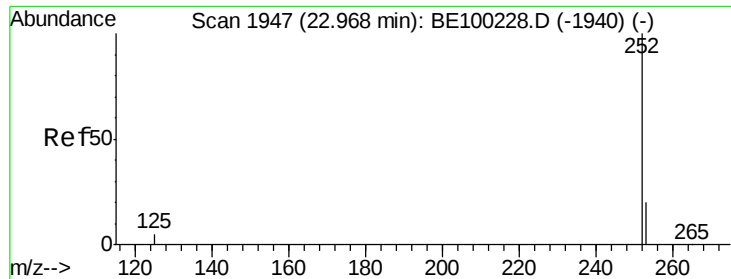
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





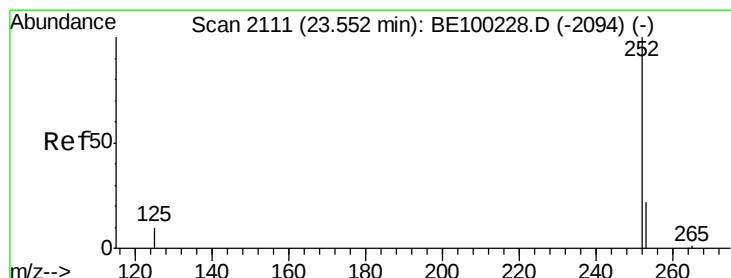
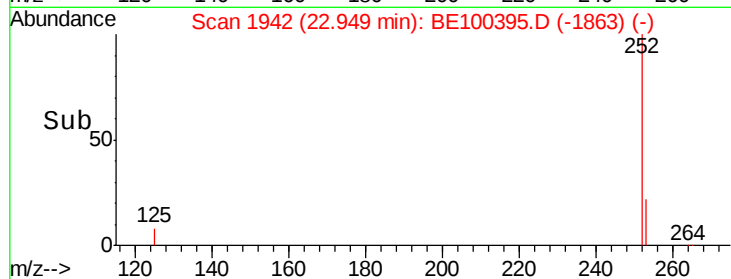
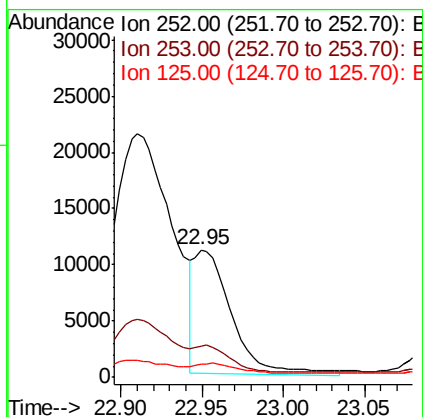
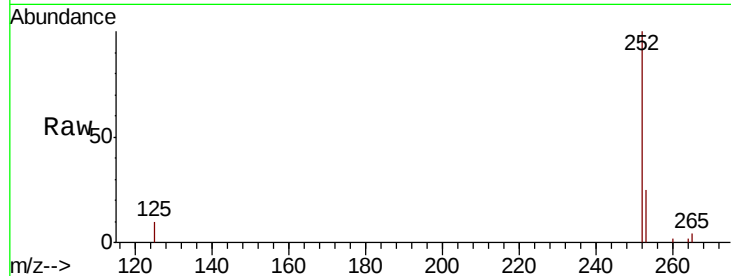
#36
Benzo(k)fluoranthene
Concen: 0.701 ng m
RT: 22.95 min Scan# 1942
Delta R.T. -0.02 min
Lab File: BE100395.D
Acq: 6 Jul 2019 00:02

Instrument :
BNA_E
ClientSampleId :
PST-011-B224-062419

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.7	17.9	26.9
125	10.4	5.0	7.4

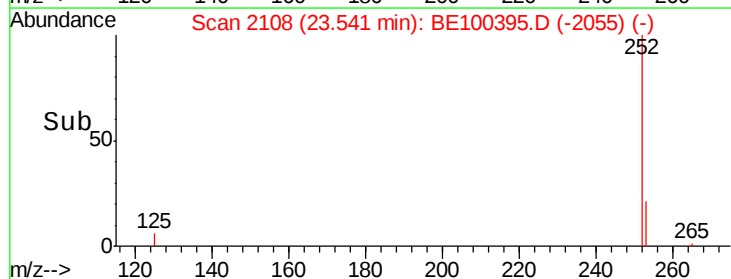
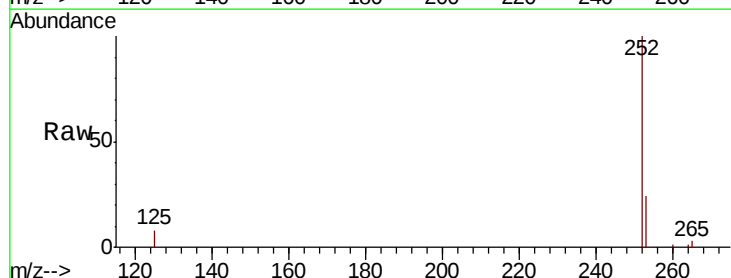
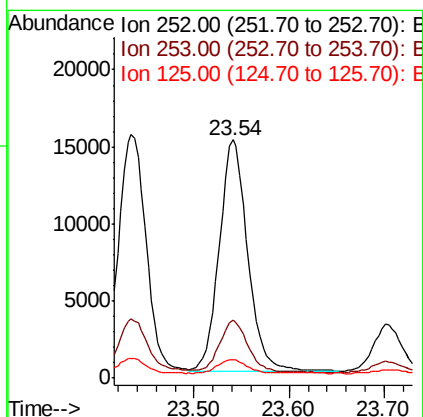
Manual Integrations
APPROVED

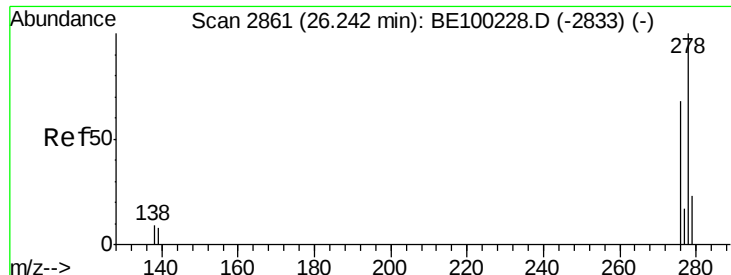
mohammad
7/8/2019 2:14:14 PM



#37
Benzo(a)pyrene
Concen: 1.330 ng
RT: 23.54 min Scan# 2108
Delta R.T. -0.01 min
Lab File: BE100395.D
Acq: 6 Jul 2019 00:02

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	19.6	29.4
125	7.9	9.0	13.6





#38

Dibenzo(a,h)anthracene

Concen: 0.257 ng

RT: 26.21 min Scan# 2852

Delta R.T. -0.03 min

Lab File: BE100395.D

Acq: 6 Jul 2019 00:02

Instrument :

BNA_E

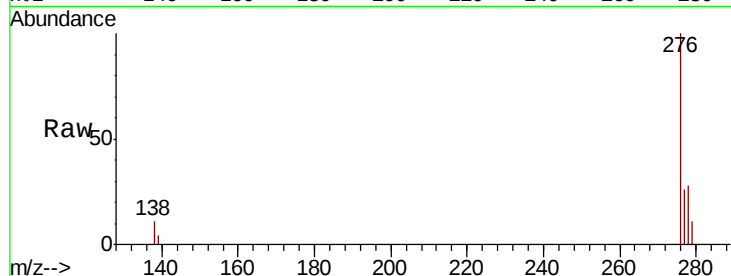
ClientSampleId :

PST-011-B224-062419

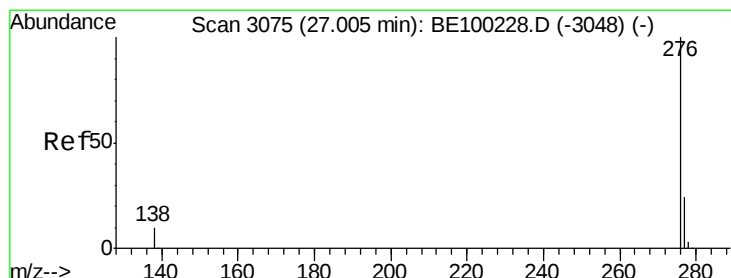
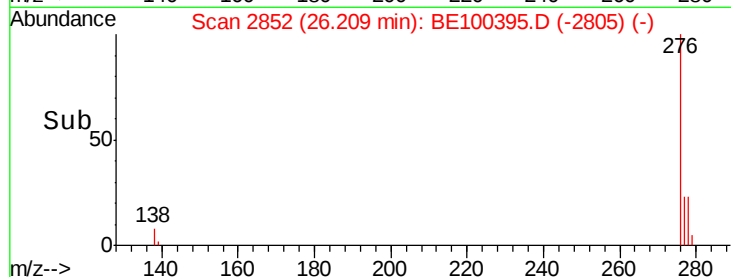
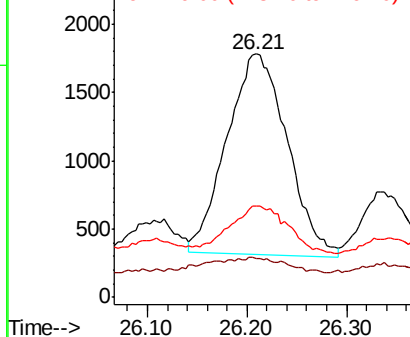
Tot Ion:	278	Resp:	6213
Ion Ratio	Lower	Upper	
278	100		
139	15.7	8.2	12.2#
279	37.7	20.3	30.5#

Manual Integrations
APPROVED

mohammad
7/8/2019 2:14:14 PM



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



#39

Benzo(g,h,i)perylene

Concen: 1.117 ng

RT: 26.99 min Scan# 3071

Delta R.T. -0.01 min

Lab File: BE100395.D

Acq: 6 Jul 2019 00:02

Tgt Ion:	276	Resp:	27734
Ion Ratio	Lower	Upper	
276	100		
277	26.0	20.2	30.2
138	10.8	9.0	13.6

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

