

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE052219\
 Data File : BE099714.D
 Acq On : 22 May 2019 10:47
 Operator : JU/SJ
 Sample : K2944-05DL 10X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 FESB-5(4.5-5)DL

Manual Integrations
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mohammad
 5/24/2019 8:47:50 AM

Quant Time: May 22 12:01:07 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE052019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 20 19:29:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	1348	0.40	ng	0.00
7) Naphthalene-d8	10.63	136	4906	0.40	ng	0.01
13) Acenaphthene-d10	14.49	164	3687	0.40	ng	0.00
19) Phenanthrene-d10	17.23	188	11302	0.40	ng	0.00
27) Chrysene-d12	21.42	240	15799	0.40	ng	0.00
34) Perylene-d12	23.95	264	17532	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.39	112	109	0.03	ng	0.01
5) Phenol-d6	6.99	99	143	0.03	ng	0.01
8) Nitrobenzene-d5	9.00	82	76	0.02	ng	0.03
11) 2-Methylnaphthalene-d10	12.24	152	266	0.03	ng	0.01
14) 2,4,6-Tribromophenol	16.00	330	64	0.17	ng	0.01
15) 2-Fluorobiphenyl	13.12	172	352	0.03	ng	0.01
25) Fluoranthene-d10	19.27	212	3389	0.02	ng	0.00
29) Terphenyl-d14	19.86	244	750	0.03	ng	0.00

Target Compounds						Qvalue
9) Naphthalene	10.67	128	2929	0.056	ng	# 92
12) 2-Methylnaphthalene	12.31	142	257	0.030	ng	# 85
16) Acenaphthylene	14.21	152	3692	0.215	ng	99
17) Acenaphthene	14.56	154	695	0.072	ng	98
18) Fluorene	15.53	166	1727	0.122	ng	98
23) Phenanthrene	17.27	178	43636	1.580	ng	100
24) Anthracene	17.36	178	5108	0.204	ng	97
26) Fluoranthene	19.29	202	133948	3.068	ng	99
28) Pyrene	19.66	202	128373	3.234	ng	96
30) Benzo(a)anthracene	21.40	228	72094	1.606	ng	96
31) Chrysene	21.45	228	87519m	1.823	ng	
32) Bis(2-ethylhexyl)phthalate	21.32	149	9197	0.178	ng	99
33) Indeno(1,2,3-cd)pyrene	26.64	276	52704	0.909	ng	98
35) Benzo(b)fluoranthene	23.17	252	101452	2.112	ng	99
36) Benzo(k)fluoranthene	23.22	252	42698m	0.853	ng	
37) Benzo(a)pyrene	23.84	252	73479	1.589	ng	98
38) Dibenzo(a,h)anthracene	26.66	278	13011	0.268	ng	# 93
39) Benzo(a,h,i)perylene	27.48	276	52664	1.074	ng	99

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

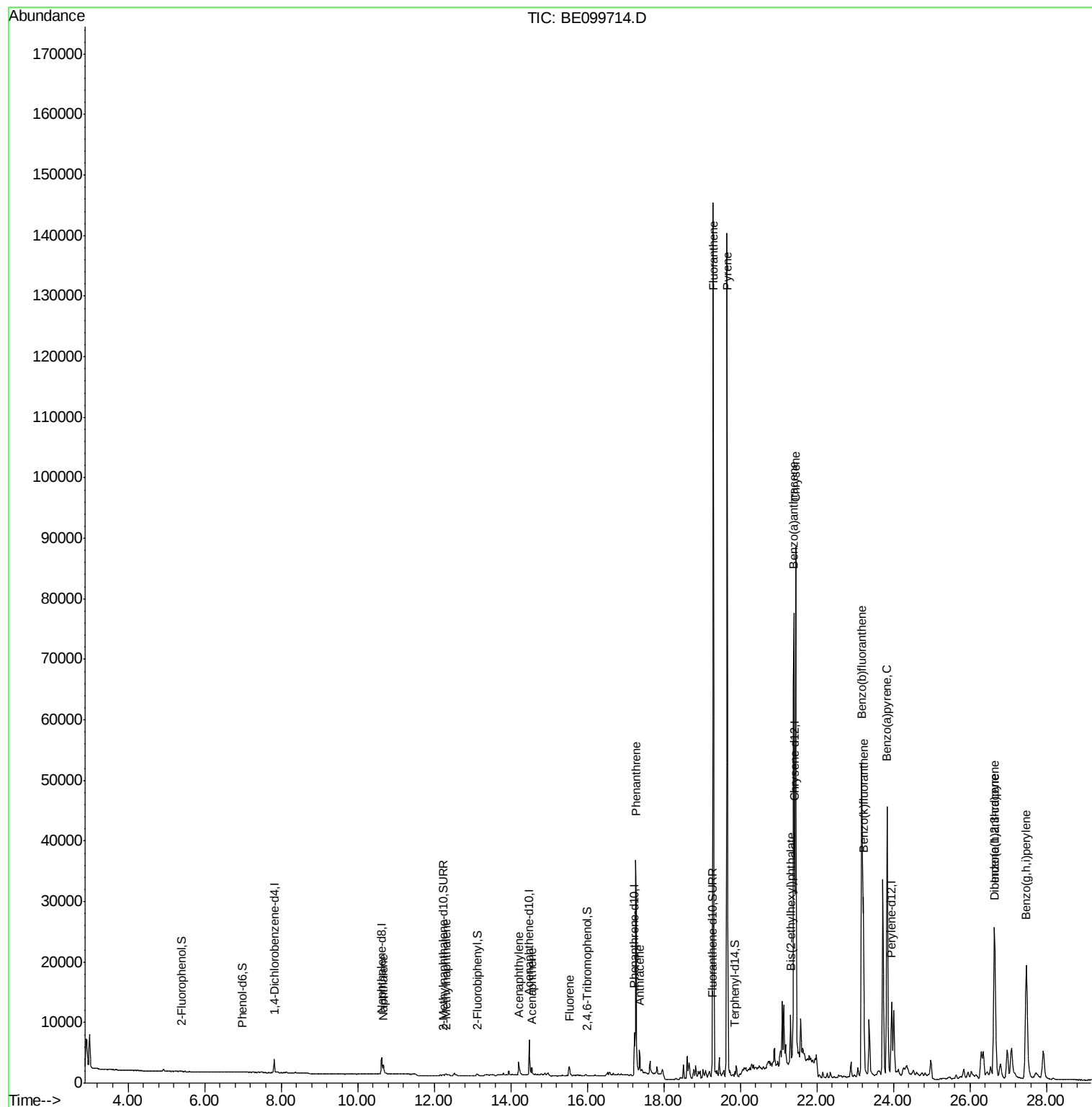
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE052219\
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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.82 min Scan# 430

Delta R.T. 0.00 min

Lab File: BE099714.D

Acq: 22 May 2019 10:47

Instrument :

BNA_E

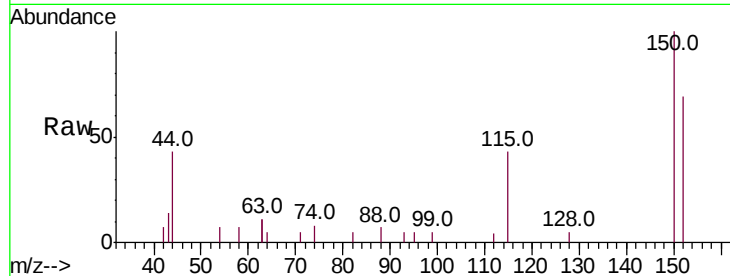
ClientSampleId :

FESB-5(4.5-5)DL

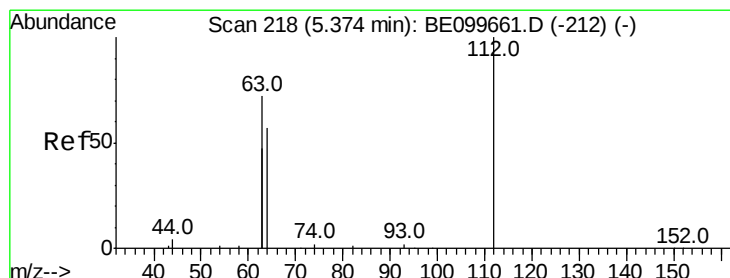
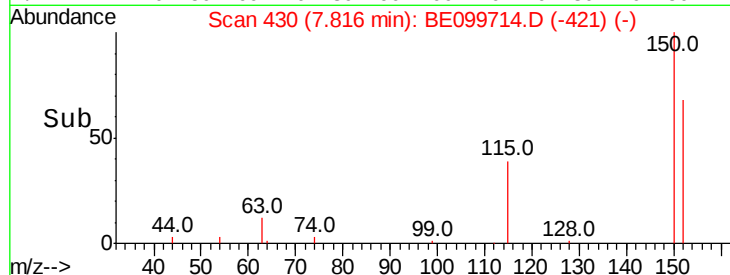
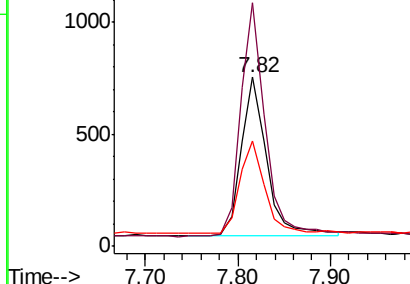
Tot Ion:	152	Resp:	1348
Ion	Ratio	Lower	Upper
152	100		
150	144.3	109.2	163.8
115	62.1	43.7	65.5

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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: 0.032 ng

RT: 5.39 min Scan# 219

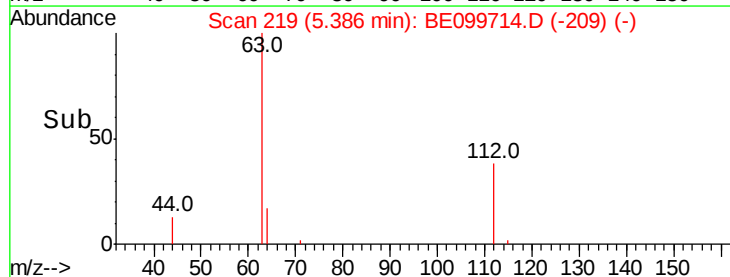
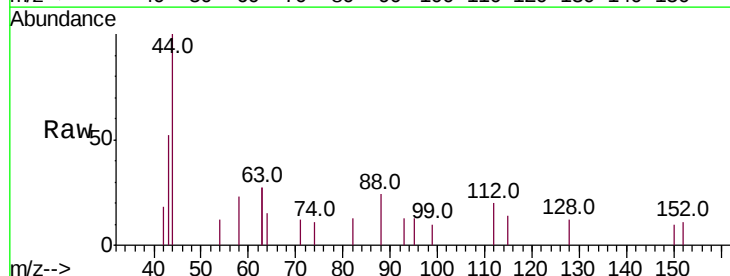
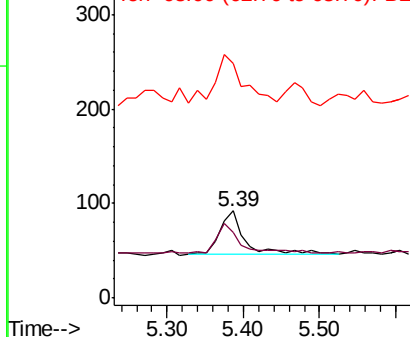
Delta R.T. 0.01 min

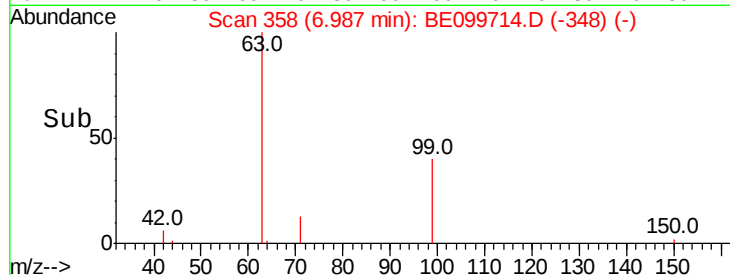
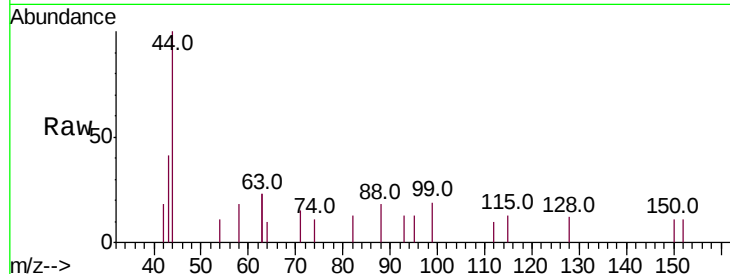
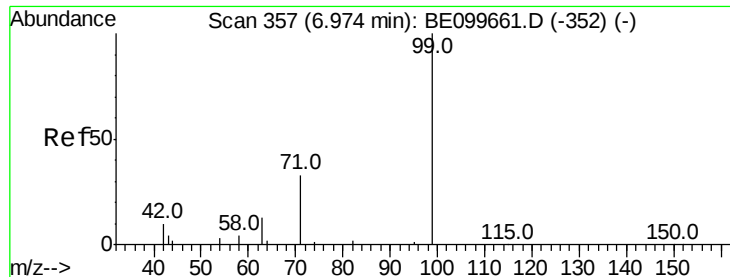
Lab File: BE099714.D

Acq: 22 May 2019 10:47

Tgt Ion:	112	Resp:	109
Ion	Ratio	Lower	Upper
112	100		
64	70.6	43.4	65.2#
63	122.0	96.9	145.3

Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE0
Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.032 ng

RT: 6.99 min Scan# 358

Delta R.T. 0.01 min

Lab File: BE099714.D

Acq: 22 May 2019 10:47

Tot Ion:	99	Resp:	143
Ion	Ratio	Lower	Upper
99	100		
42	33.6	12.2	18.2#
71	39.9	28.9	43.3

Instrument :

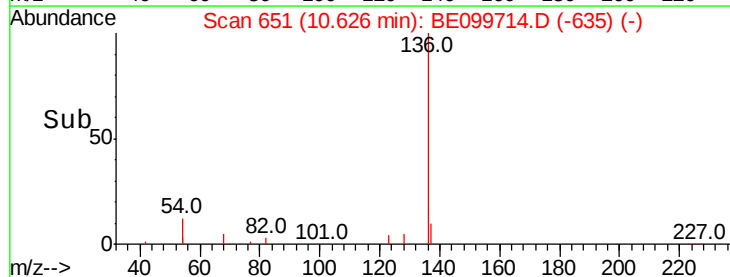
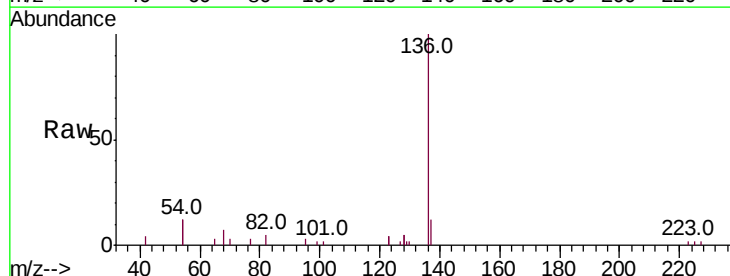
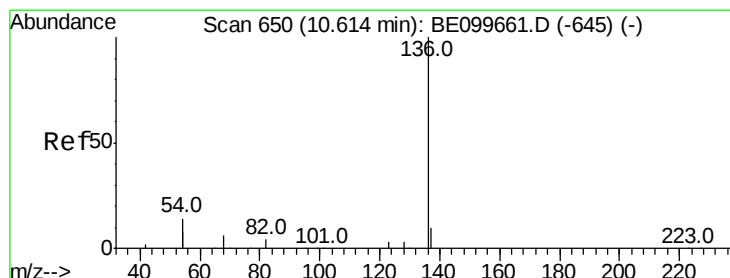
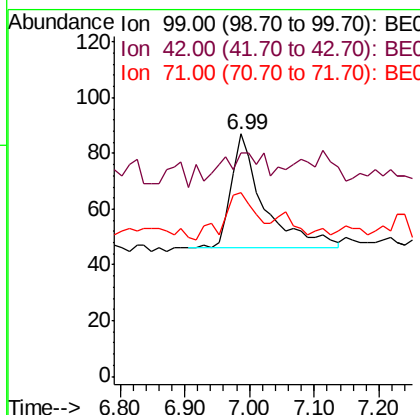
BNA_E

ClientSampleId :

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#7

Naphthalene-d8

Concen: 0.400 ng

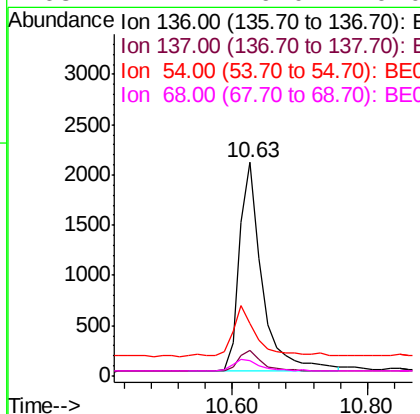
RT: 10.63 min Scan# 651

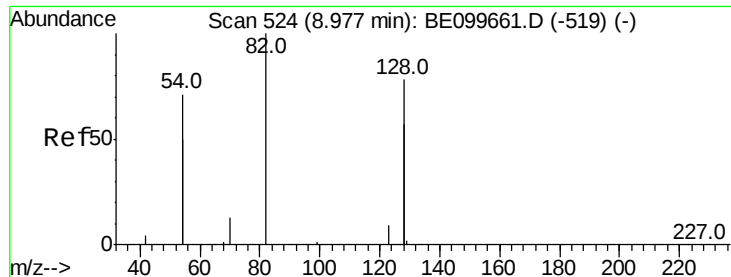
Delta R.T. 0.01 min

Lab File: BE099714.D

Acq: 22 May 2019 10:47

Tgt Ion:	136	Resp:	4906
Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.0	13.6
54	24.4	22.3	33.5
68	7.1	6.0	9.0





#8

Nitrobenzene-d5

Concen: 0.018 ng

RT: 9.00 min Scan# 526

Delta R.T. 0.03 min

Lab File: BE099714.D

Acq: 22 May 2019 10:47

Instrument :

BNA_E

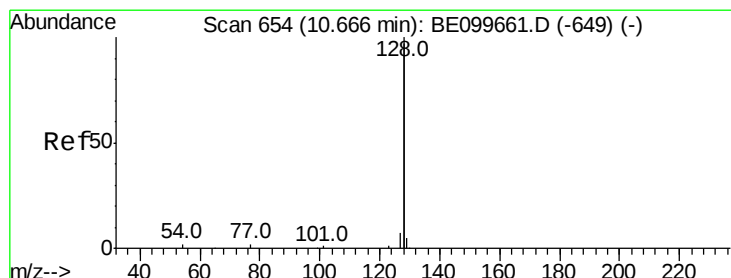
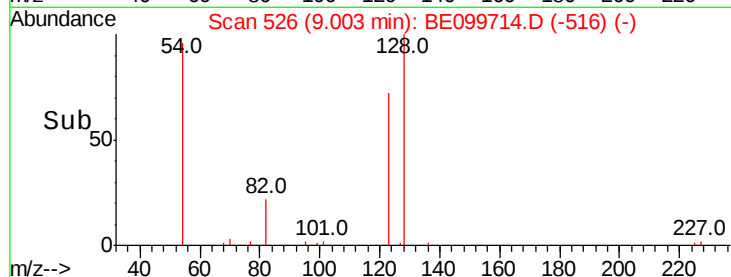
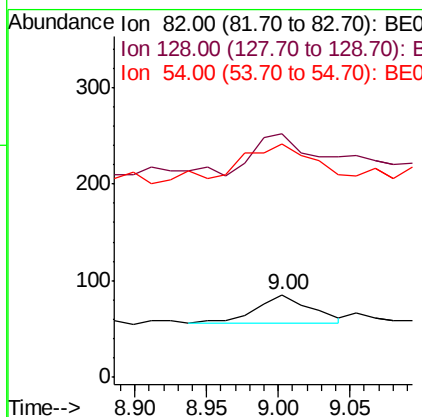
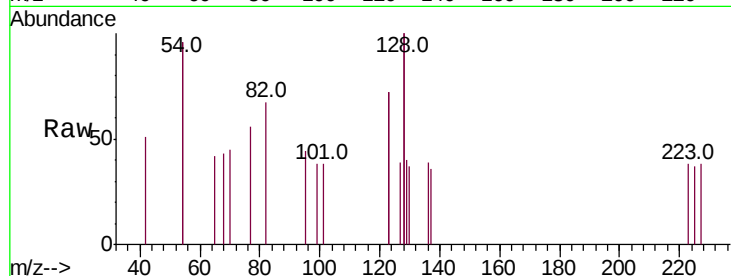
ClientSampled :

FESB-5(4.5-5)DL

Tot Ion:	82	Resp:	76
Ion	Ratio	Lower	Upper
82	100		
128	296.5	117.7	176.5#
54	284.7	106.6	160.0#

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#9

Naphthalene

Concen: 0.056 ng

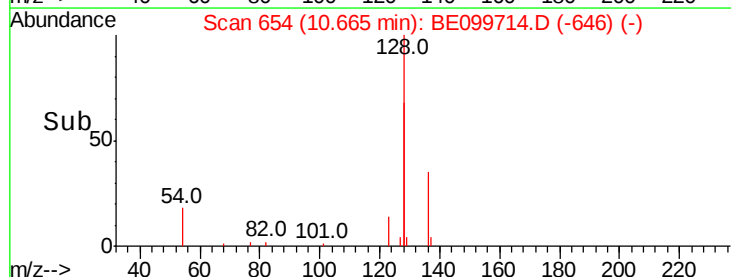
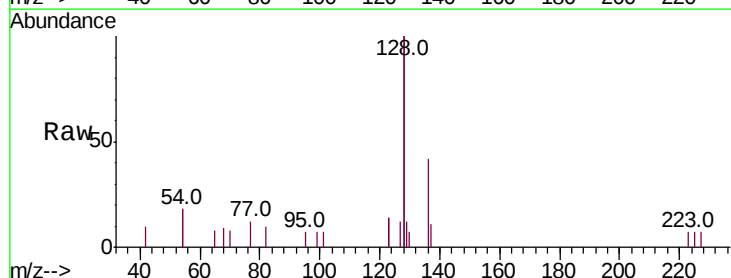
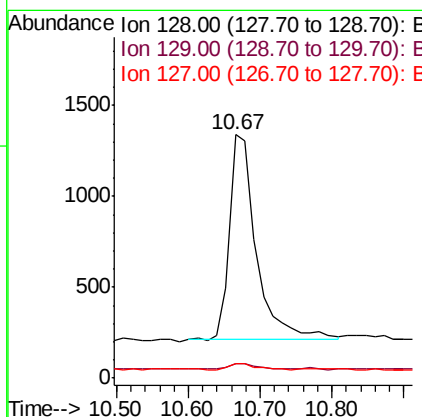
RT: 10.67 min Scan# 654

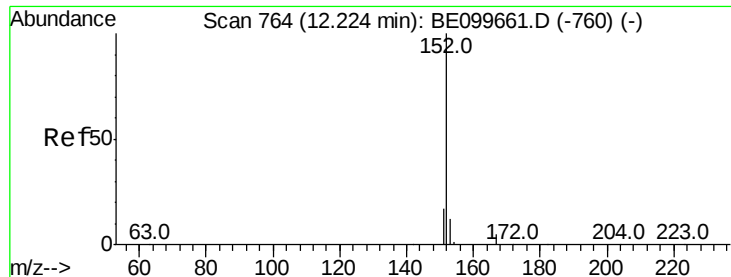
Delta R.T. -0.00 min

Lab File: BE099714.D

Acq: 22 May 2019 10:47

Tgt Ion:	128	Resp:	2929
Ion	Ratio	Lower	Upper
128	100		
129	6.0	2.4	3.6#
127	5.9	2.9	4.3#





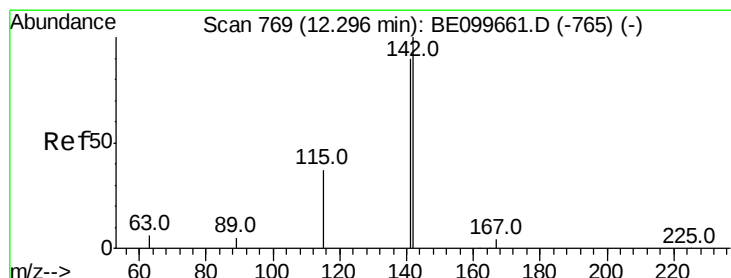
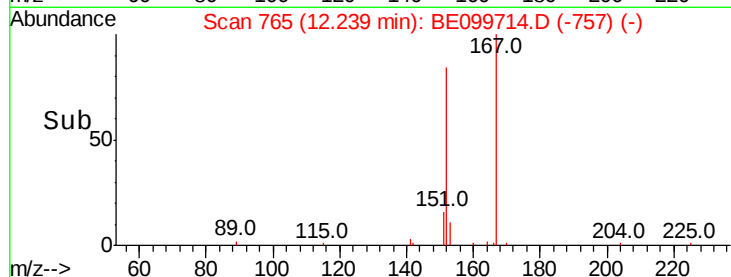
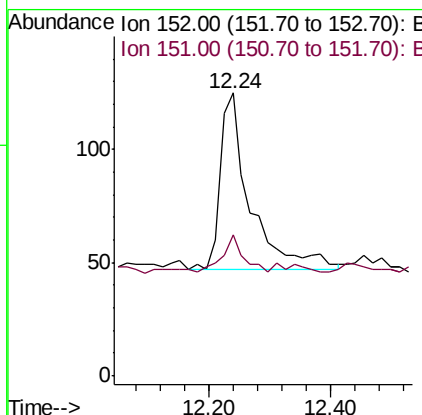
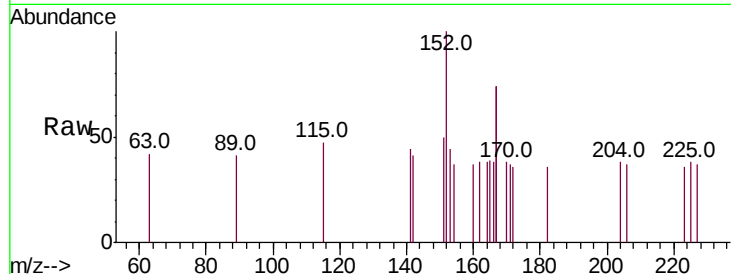
#11
 2-Methylnaphthalene-d10
 Concen: 0.031 ng
 RT: 12.24 min Scan# 765
 Delta R.T. 0.01 min
 Lab File: BE099714.D
 Acq: 22 May 2019 10:47

Instrument :
 BNA_E
 ClientSampled :
 FESB-5(4.5-5)DL

Tot Ion:152 Resp: 266
 Ion Ratio Lower Upper
 152 100
 151 13.5 15.0 22.4#

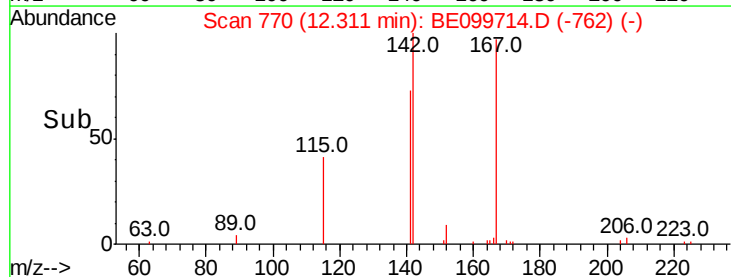
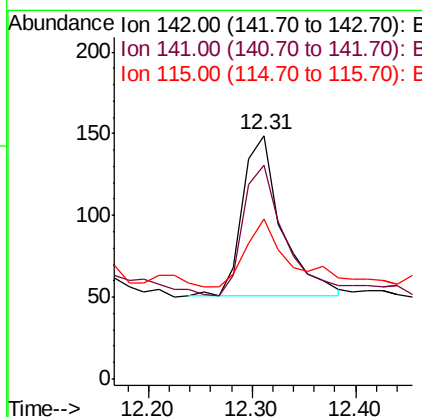
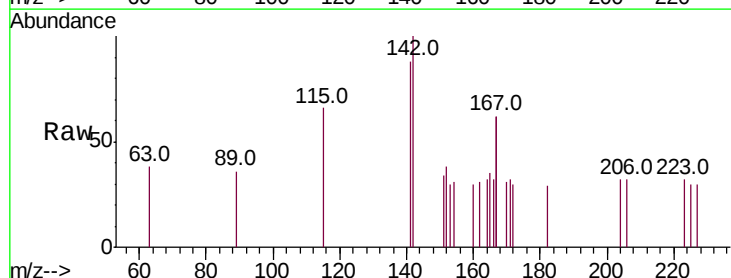
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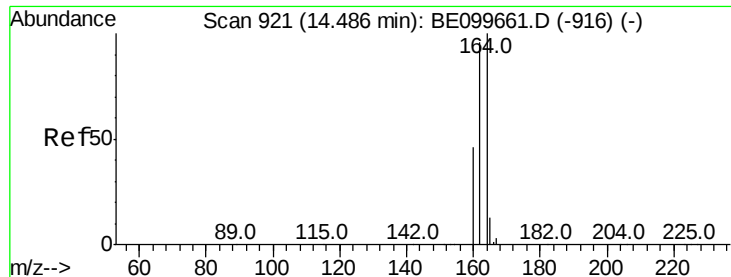
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#12
 2-Methylnaphthalene
 Concen: 0.030 ng
 RT: 12.31 min Scan# 770
 Delta R.T. 0.01 min
 Lab File: BE099714.D
 Acq: 22 May 2019 10:47

Tgt Ion:142 Resp: 257
 Ion Ratio Lower Upper
 142 100
 141 87.9 72.0 108.0
 115 65.8 31.0 46.4#





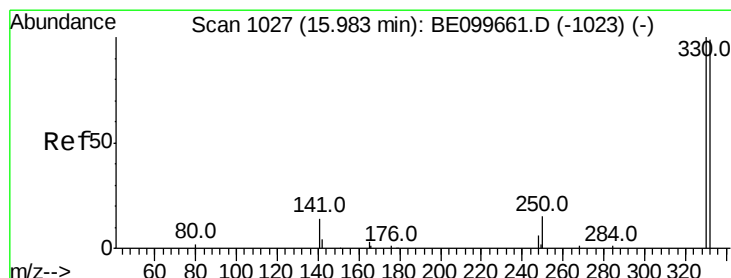
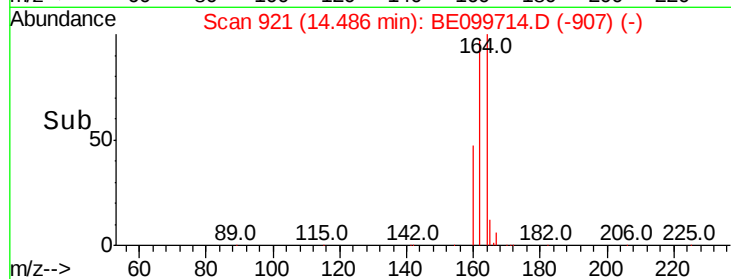
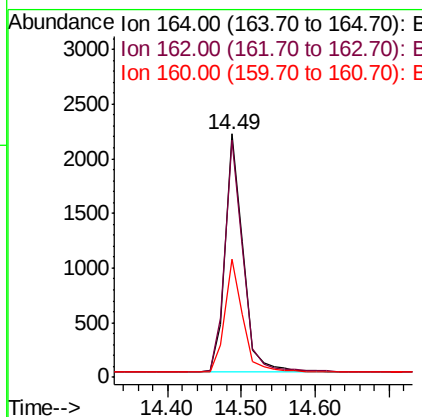
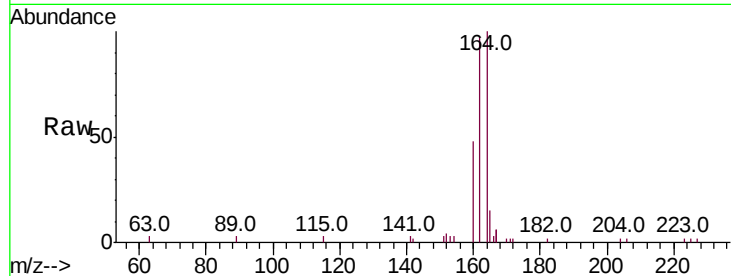
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.49 min Scan# 921
Delta R.T. 0.00 min
Lab File: BE099714.D
Acq: 22 May 2019 10:47

Instrument :
BNA_E
ClientSampleId :
FESB-5(4.5-5)DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	97.2	76.5	114.7
160	48.4	37.4	56.2

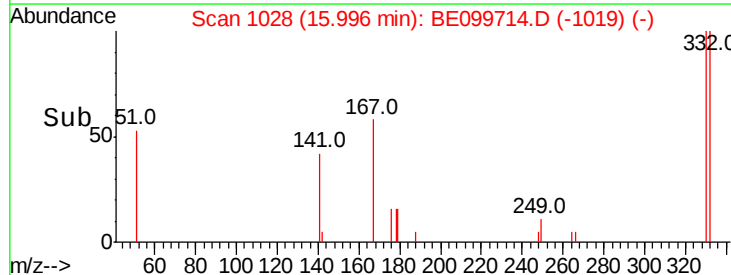
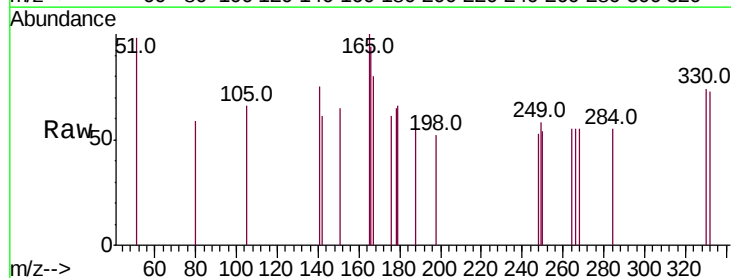
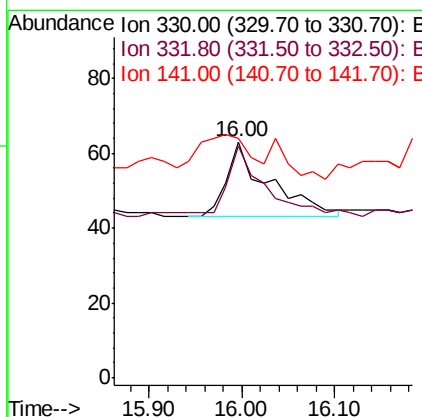
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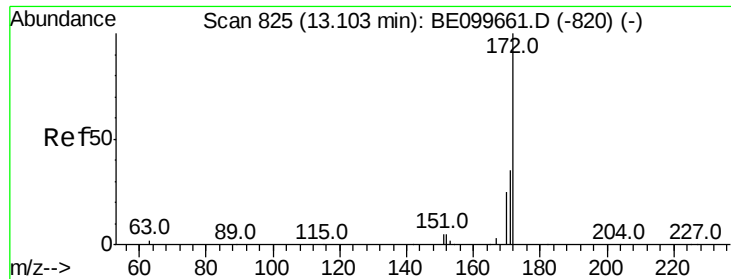
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#14
2,4,6-Tribromophenol
Concen: 0.166 ng
RT: 16.00 min Scan# 1028
Delta R.T. 0.01 min
Lab File: BE099714.D
Acq: 22 May 2019 10:47

Tgt Ion	Ratio	Lower	Upper
330	100		
332	84.4	77.3	115.9
141	48.4	18.9	28.3#





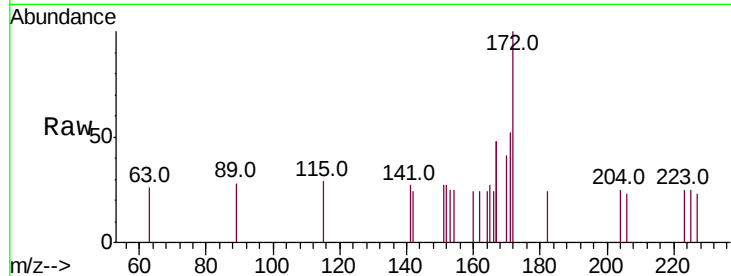
#15
2-Fluorobiphenyl
Concen: 0.025 ng
RT: 13.12 min Scan# 826
Delta R.T. 0.01 min
Lab File: BE099714.D
Acq: 22 May 2019 10:47

Instrument :
BNA_E
ClientSampleId :
FESB-5(4.5-5)DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	51.5	28.7	43.1#
170	40.7	20.9	31.3#

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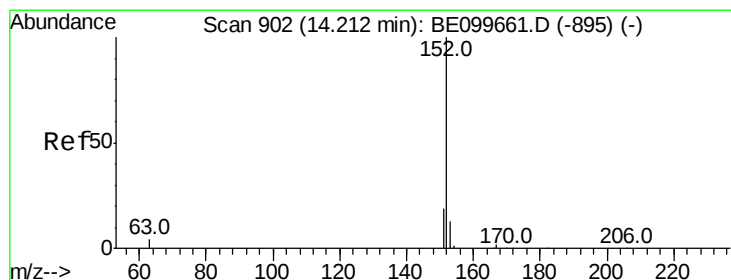
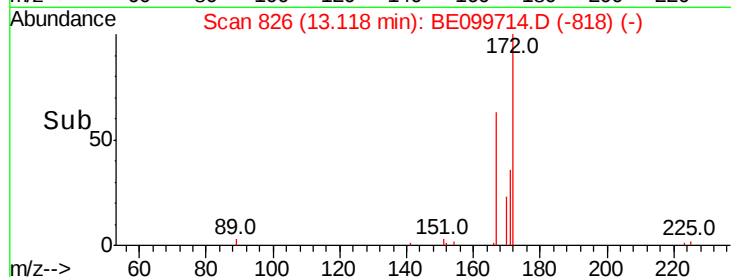
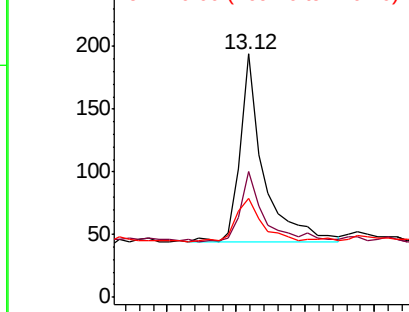


Abundance

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: 0.215 ng
RT: 14.21 min Scan# 902
Delta R.T. 0.00 min
Lab File: BE099714.D
Acq: 22 May 2019 10:47

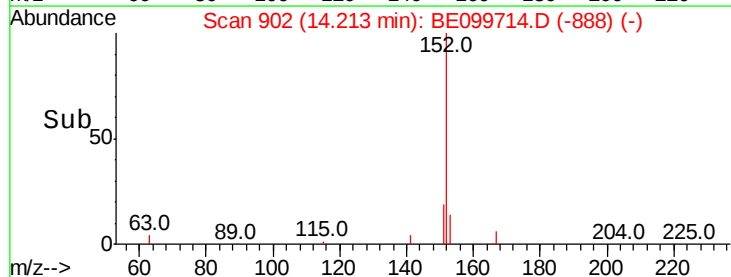
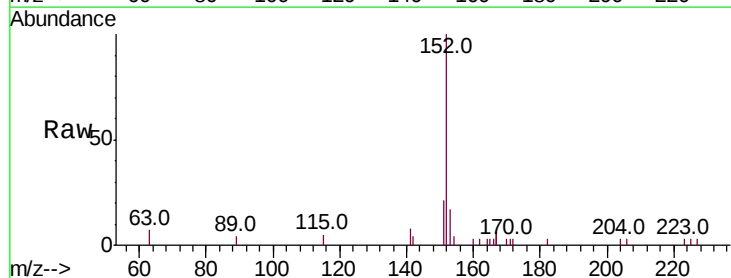
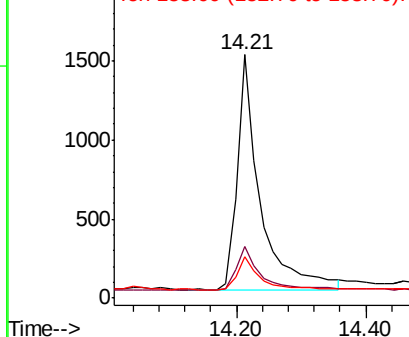
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.9	23.9
153	14.1	10.6	16.0

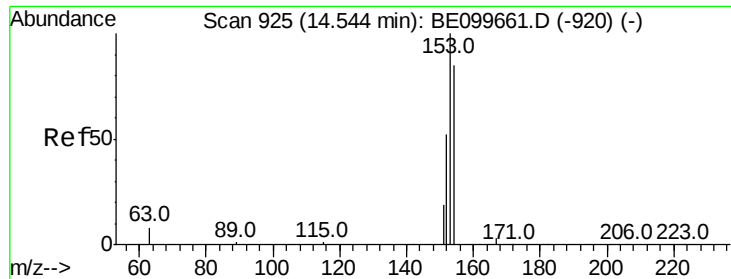
Abundance

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





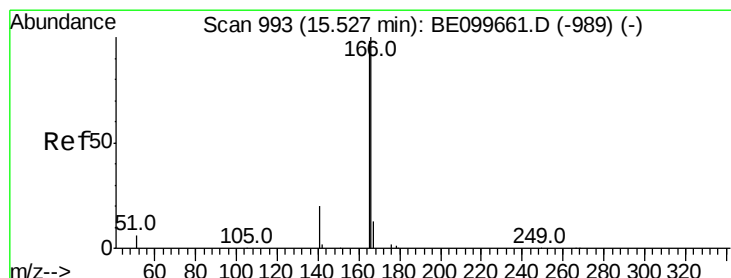
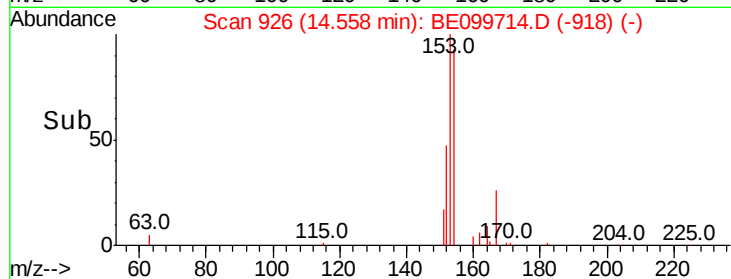
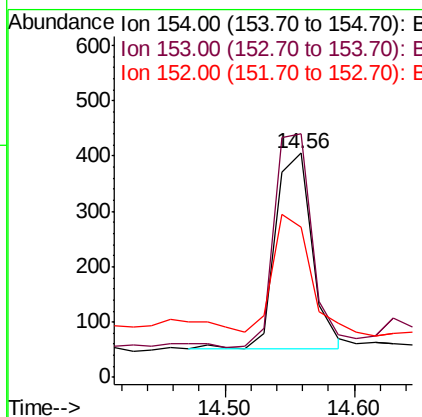
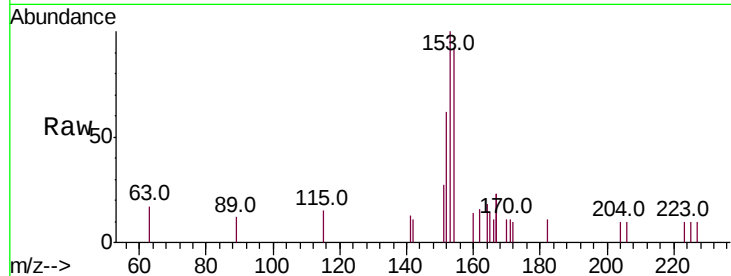
#17
Acenaphthene
Concen: 0.072 ng
RT: 14.56 min Scan# 926
Delta R.T. 0.01 min
Lab File: BE099714.D
Acq: 22 May 2019 10:47

Instrument :
BNA_E
ClientSampleId :
FESB-5(4.5-5)DL

Tot Ion	Ratio	Lower	Upper
154	100		
153	113.8	91.8	137.6
152	59.7	46.0	69.0

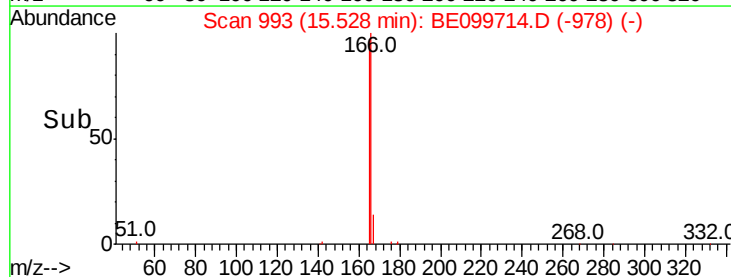
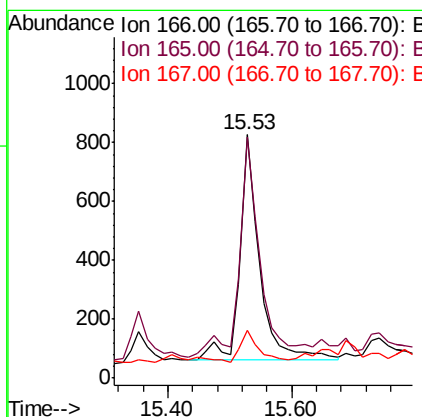
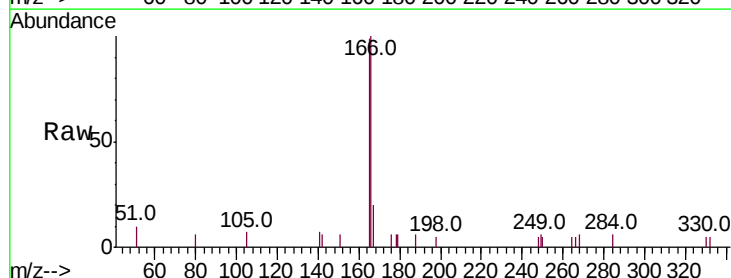
Manual Integrations
APPROVED

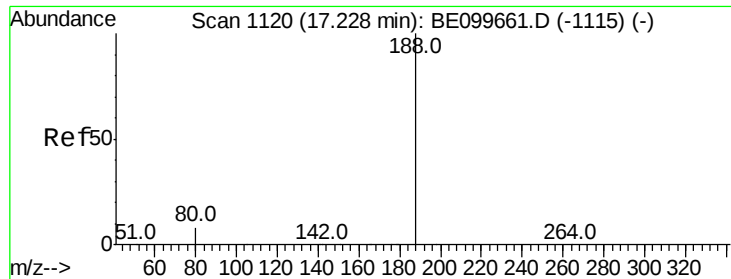
mohammad
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#18
Fluorene
Concen: 0.122 ng
RT: 15.53 min Scan# 993
Delta R.T. 0.00 min
Lab File: BE099714.D
Acq: 22 May 2019 10:47

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.5	80.3	120.5
167	11.2	10.6	16.0





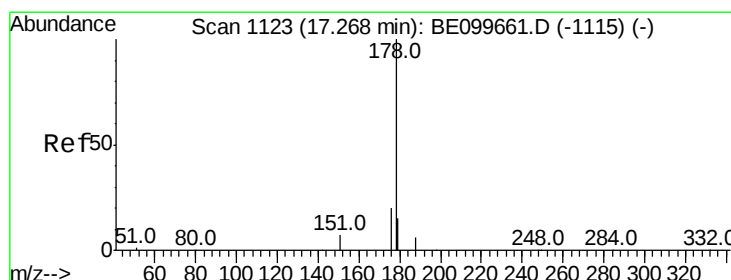
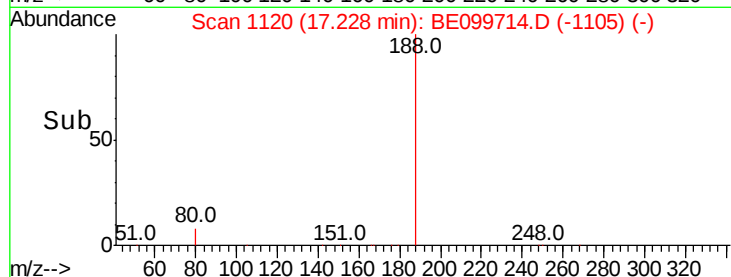
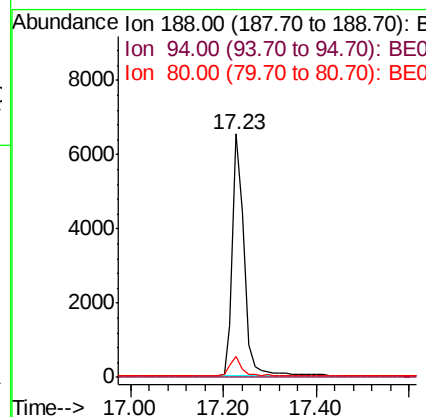
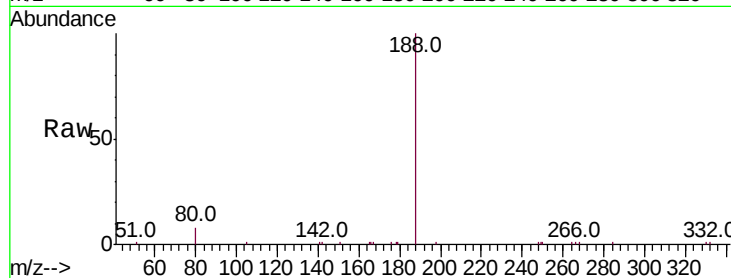
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.23 min Scan# 1120
Delta R.T. 0.00 min
Lab File: BE099714.D
Acq: 22 May 2019 10:47

Instrument :
BNA_E
ClientSampleId :
FESB-5(4.5-5)DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	11302		
94	0.0	0.0	0.0	0.0
80	8.4	6.7	10.1	

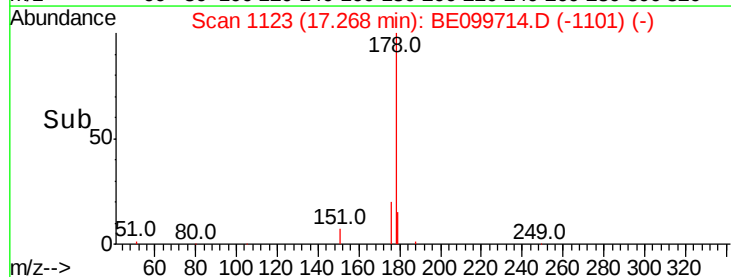
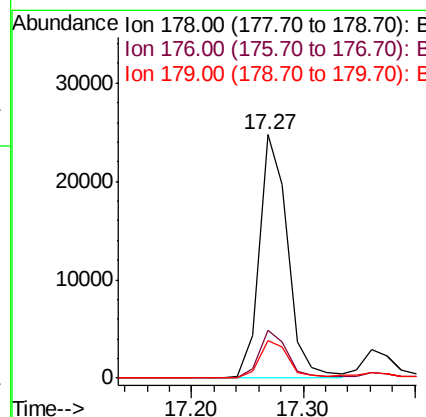
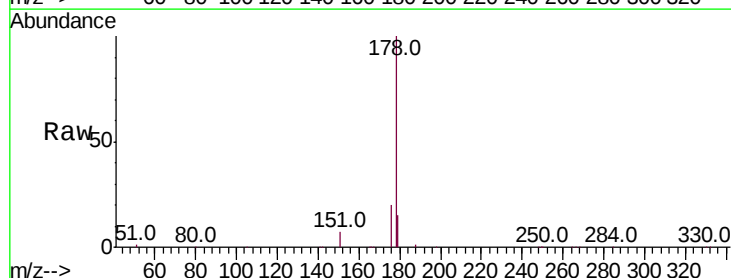
Manual Integrations
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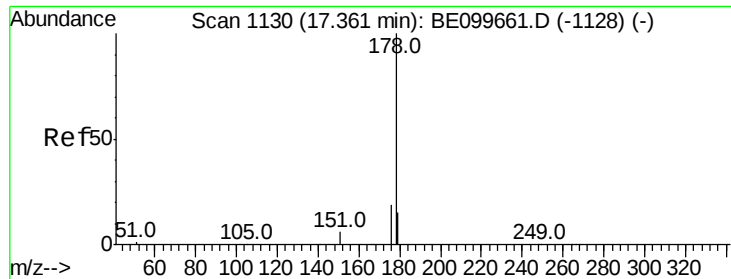
mohammad
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#23
Phenanthrene
Concen: 1.580 ng
RT: 17.27 min Scan# 1123
Delta R.T. 0.00 min
Lab File: BE099714.D
Acq: 22 May 2019 10:47

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	43636		
176	19.3	15.6	23.4	
179	15.2	12.2	18.4	





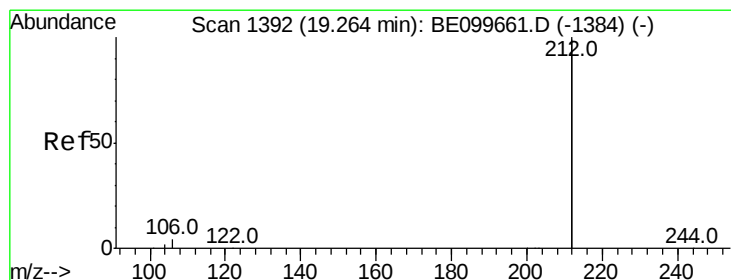
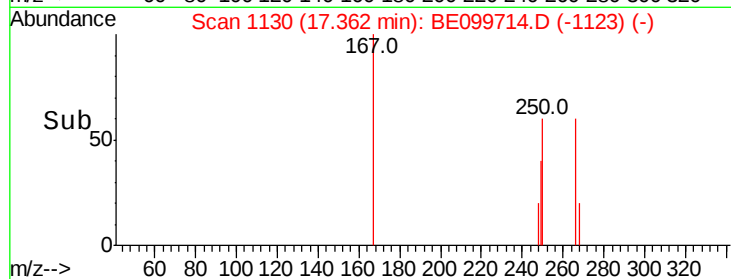
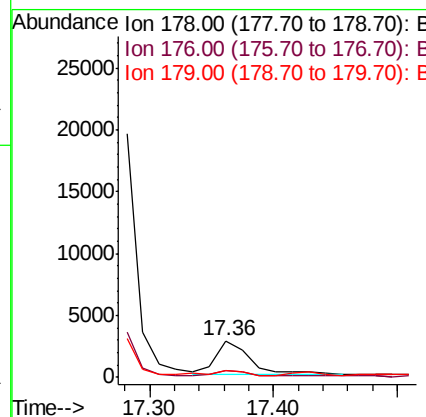
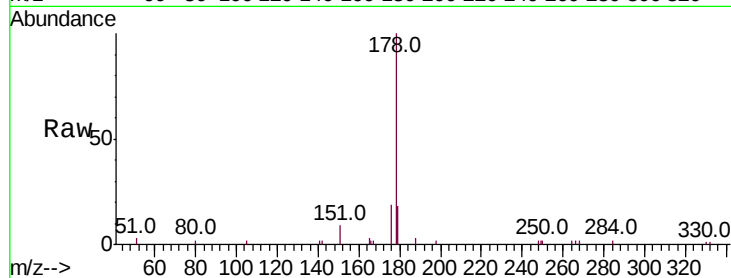
#24
 Anthracene
 Concen: 0.204 ng
 RT: 17.36 min Scan# 1130
 Delta R.T. 0.00 min
 Lab File: BE099714.D
 Acq: 22 May 2019 10:47

Instrument :
 BNA_E
 ClientSampleId :
 FESB-5(4.5-5)DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.1	14.7	22.1
179	12.5	12.0	18.0

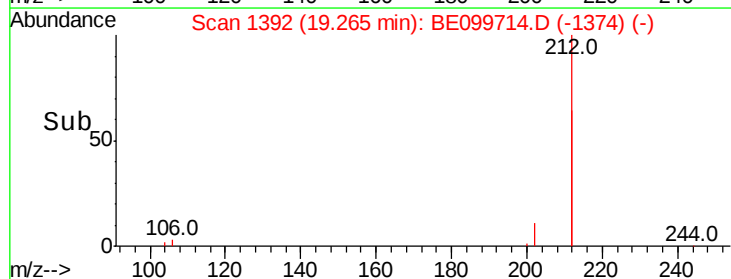
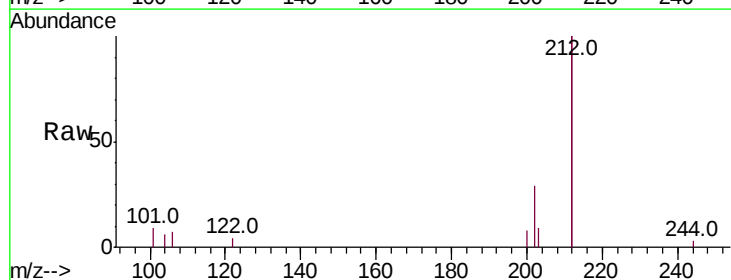
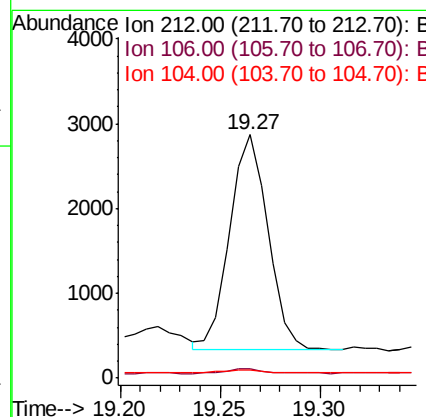
Manual Integrations
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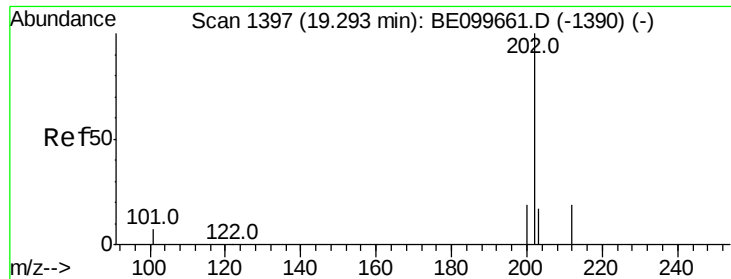
mohammad
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#25
 Fluoranthene-d10
 Concen: 0.022 ng
 RT: 19.27 min Scan# 1392
 Delta R.T. 0.00 min
 Lab File: BE099714.D
 Acq: 22 May 2019 10:47

Tgt Ion	Ratio	Lower	Upper
212	100		
106	2.3	1.4	2.2#
104	1.9	0.8	1.2#





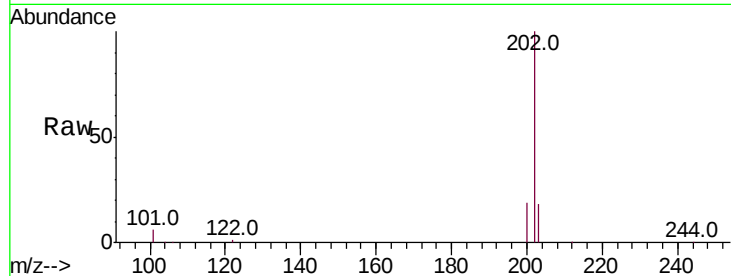
#26
Fluoranthene
 Concen: 3.068 ng
 RT: 19.29 min Scan# 1397
 Delta R.T. 0.00 min
 Lab File: BE099714.D
 Acq: 22 May 2019 10:47

Instrument :
 BNA_E
 ClientSampleId :
 FESB-5(4.5-5)DL

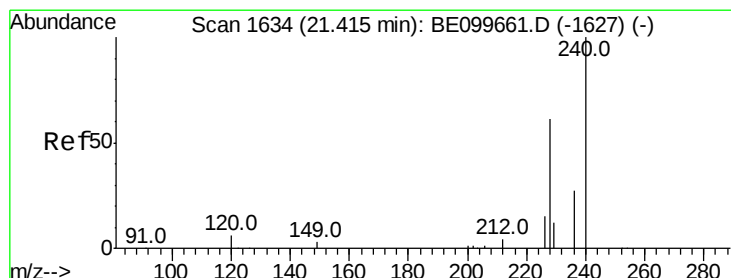
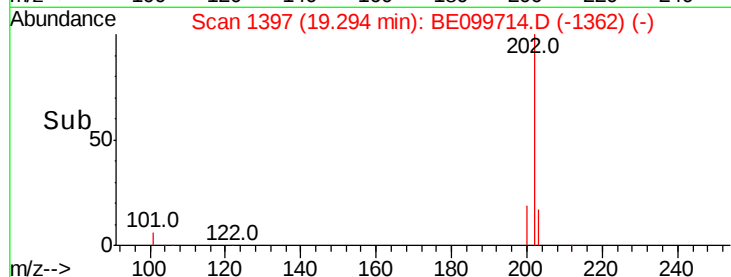
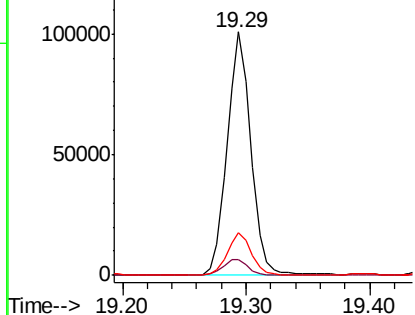
Tot Ion	Ratio	Resp	Lower	Upper
202	100	133948		
101	6.8		5.2	7.8
203	17.5		13.8	20.6

Manual Integrations
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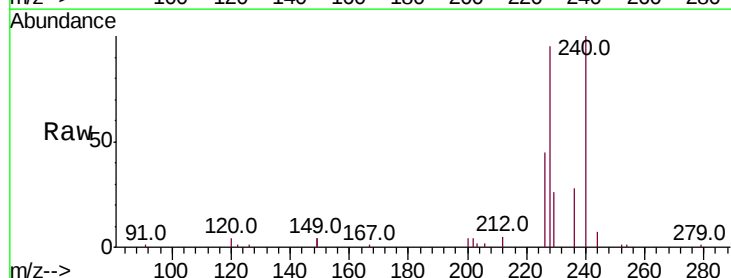


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

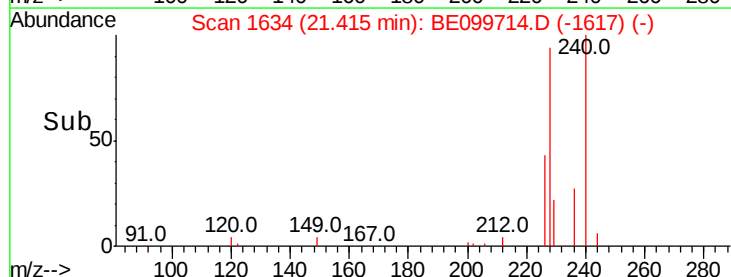
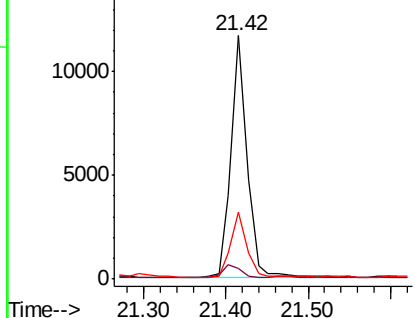


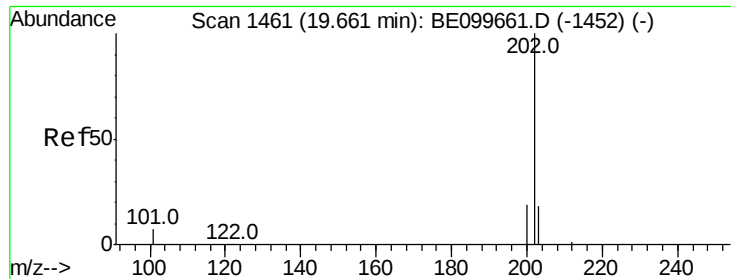
#27
Chrysene-d12
 Concen: 0.400 ng
 RT: 21.42 min Scan# 1634
 Delta R.T. 0.00 min
 Lab File: BE099714.D
 Acq: 22 May 2019 10:47

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	15799		
120	4.3		5.4	8.0#
236	27.5		21.7	32.5



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





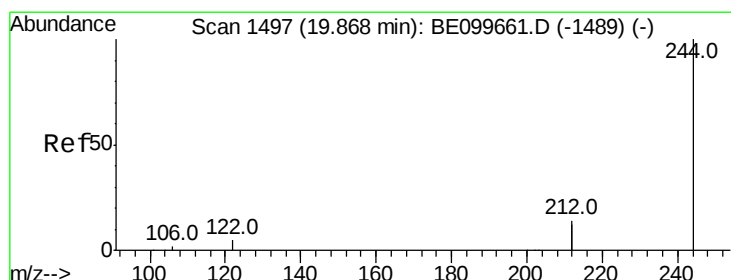
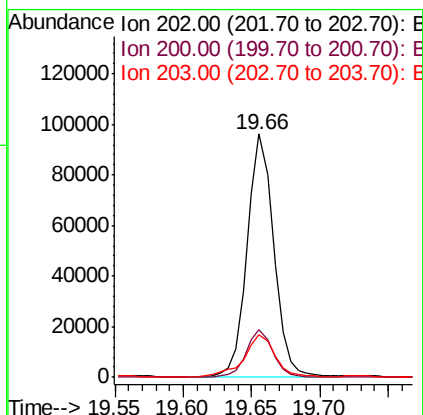
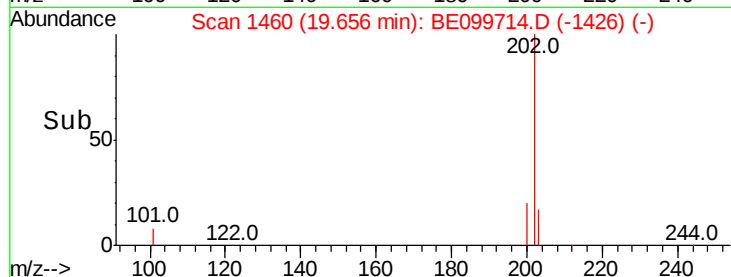
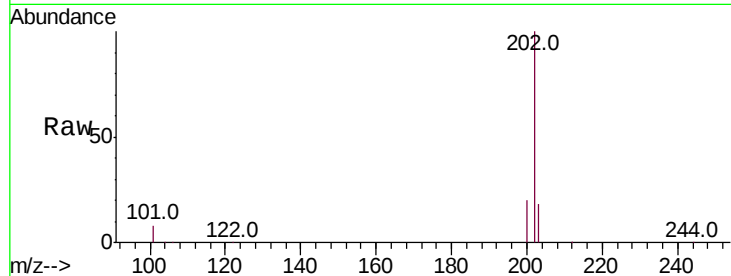
#28
Pvrene
Concen: 3.234 ng
RT: 19.66 min Scan# 1460
Delta R.T. -0.00 min
Lab File: BE099714.D
Acq: 22 May 2019 10:47

Instrument :
BNA_E
ClientSampleId :
FESB-5(4.5-5)DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	19.6	15.4	23.2
203	20.3	13.8	20.8

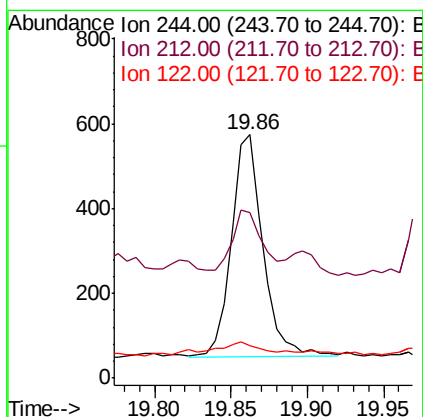
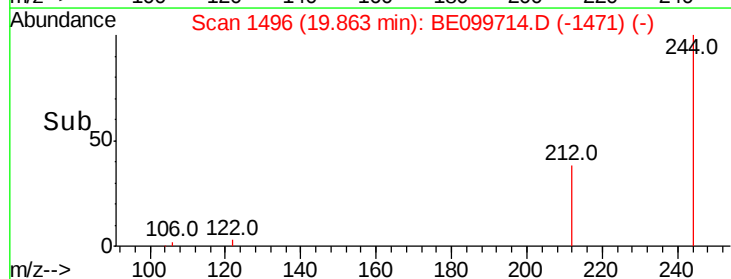
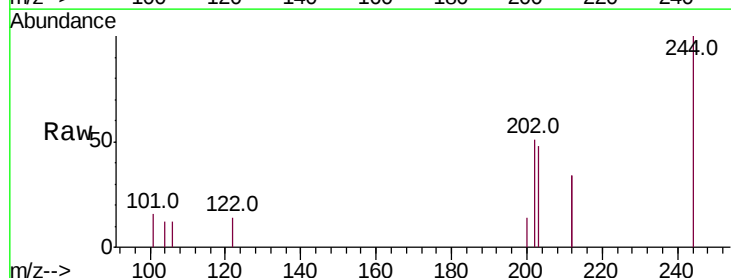
Manual Integrations
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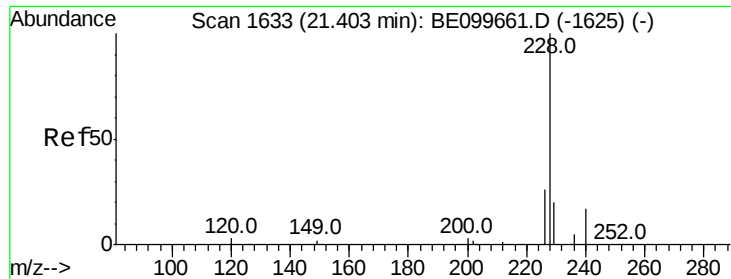
mohammad
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#29
Terphenyl-d14
Concen: 0.027 ng
RT: 19.86 min Scan# 1496
Delta R.T. -0.00 min
Lab File: BE099714.D
Acq: 22 May 2019 10:47

Tgt Ion	Ratio	Lower	Upper
244	100		
212	67.9	22.5	33.7#
122	13.6	4.3	6.5#





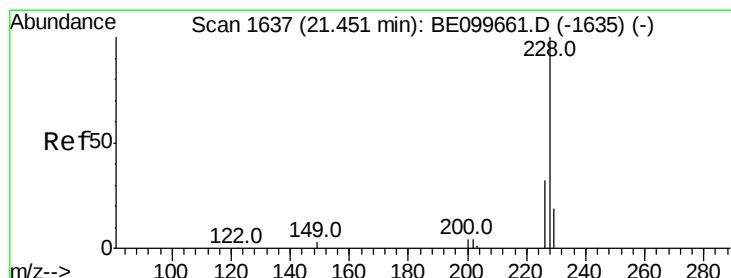
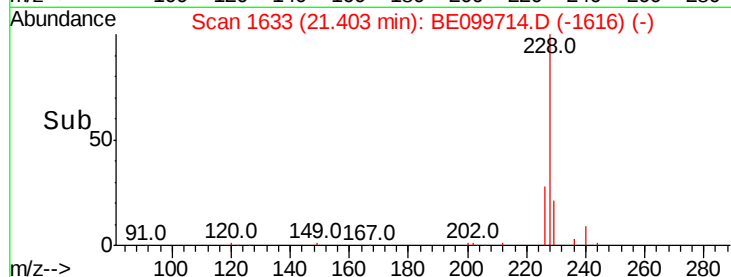
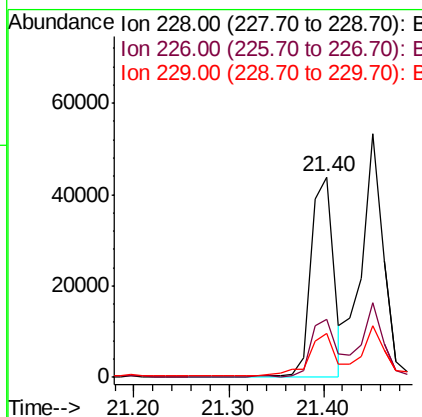
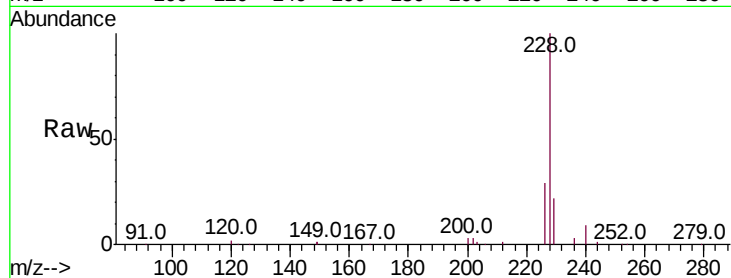
#30
Benzo(a)anthracene
Concen: 1.606 ng
RT: 21.40 min Scan# 1633
Delta R.T. 0.00 min
Lab File: BE099714.D
Acq: 22 May 2019 10:47

Instrument :
BNA_E
ClientSampleId :
FESB-5(4.5-5)DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.8	21.3	31.9
229	21.7	16.1	24.1

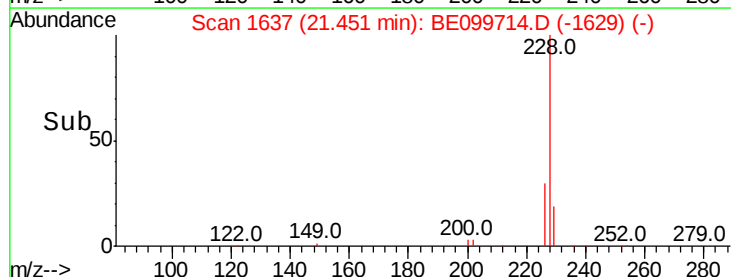
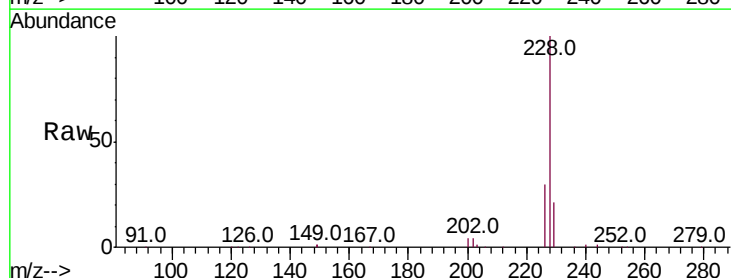
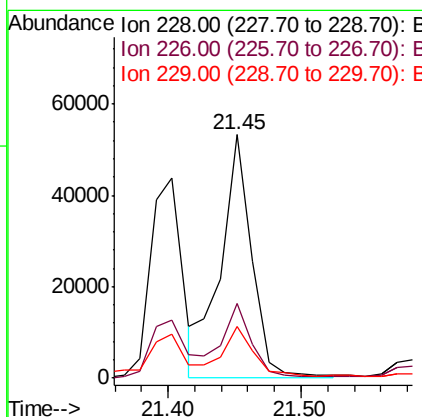
Manual Integrations
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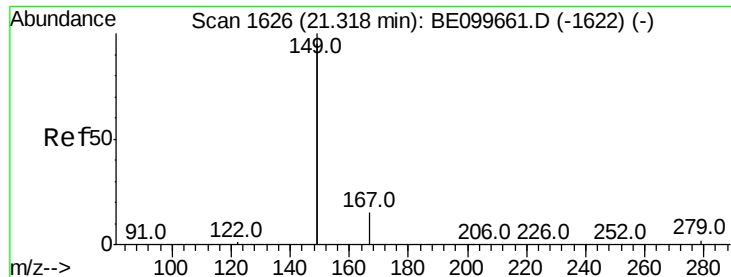
mohammad
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#31
Chrysene
Concen: 1.823 ng m
RT: 21.45 min Scan# 1637
Delta R.T. 0.00 min
Lab File: BE099714.D
Acq: 22 May 2019 10:47

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.7	37.1
229	21.4	15.8	23.6





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.178 ng

RT: 21.32 min Scan# 1626

Delta R.T. 0.00 min

Lab File: BE099714.D

Acq: 22 May 2019 10:47

Instrument :

BNA_E

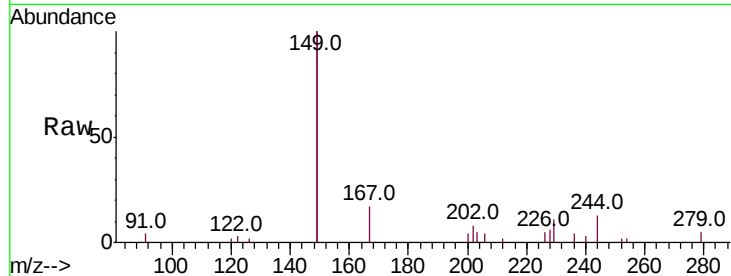
ClientSampleId :

FESB-5(4.5-5)DL

Tot Ion:	149	Resp:	9197
Ion Ratio	Lower	Upper	
149	100		
167	7.5	6.2	9.4
279	1.7	1.2	1.8

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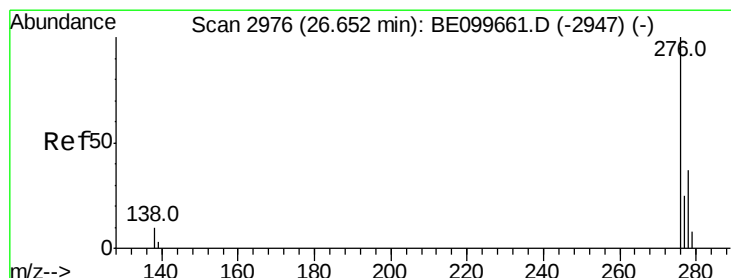
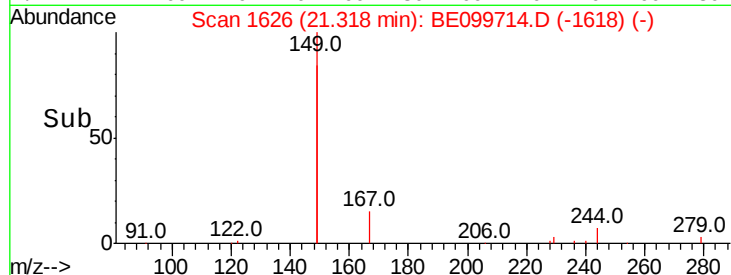
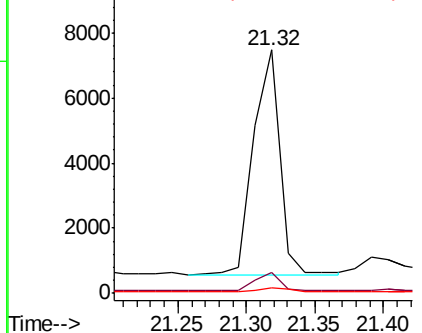
mohammad
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Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.909 ng

RT: 26.64 min Scan# 2973

Delta R.T. -0.01 min

Lab File: BE099714.D

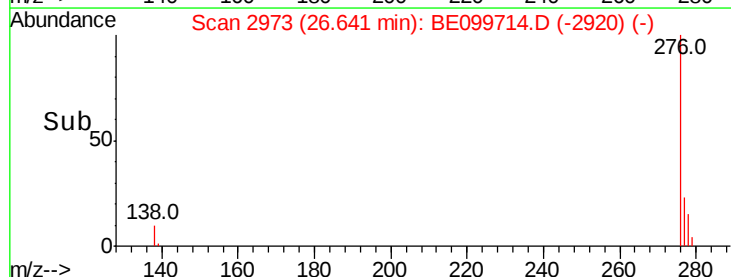
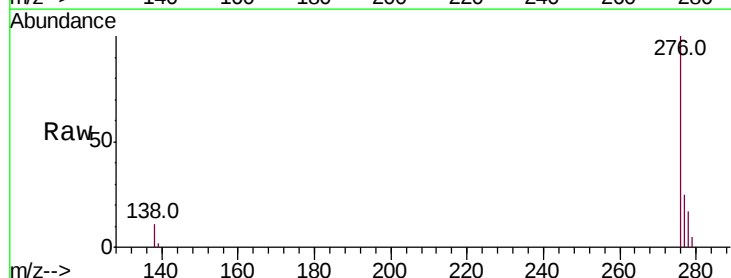
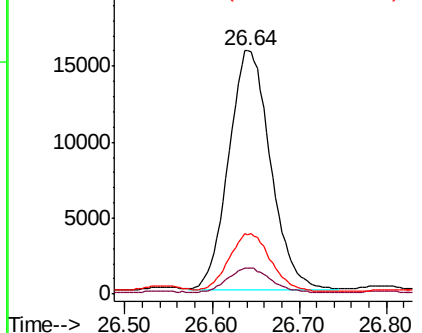
Acq: 22 May 2019 10:47

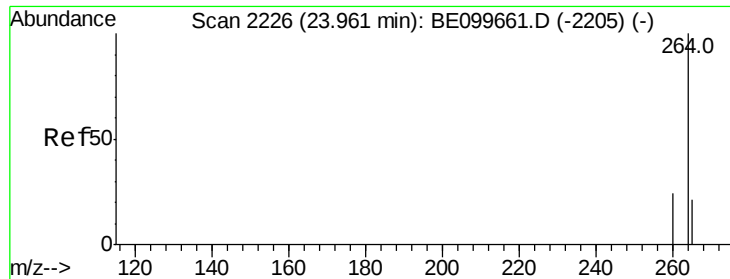
Tgt Ion:	276	Resp:	52704
Ion Ratio	Lower	Upper	
276	100		
138	10.4	9.6	14.4
277	24.4	19.2	28.8

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





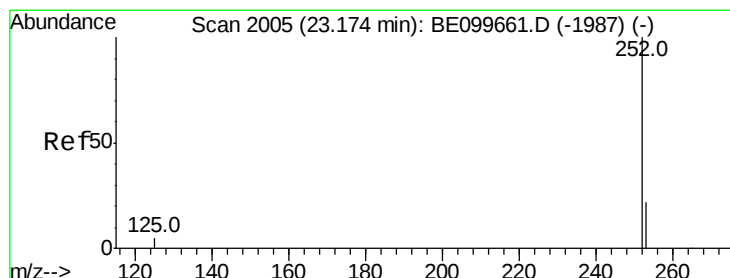
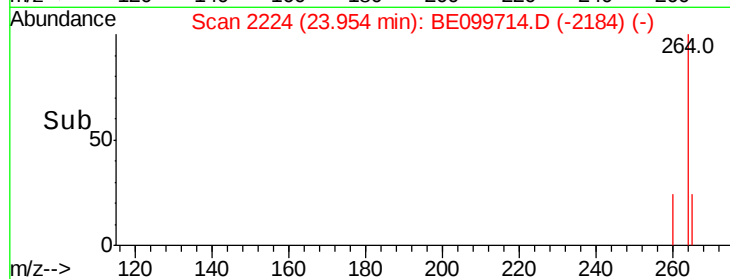
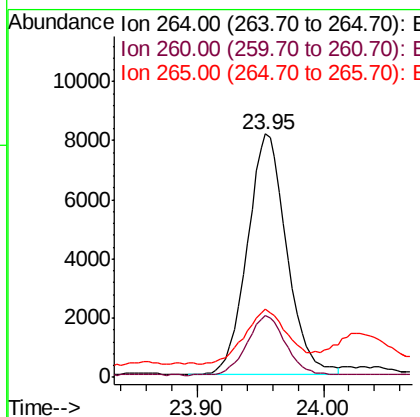
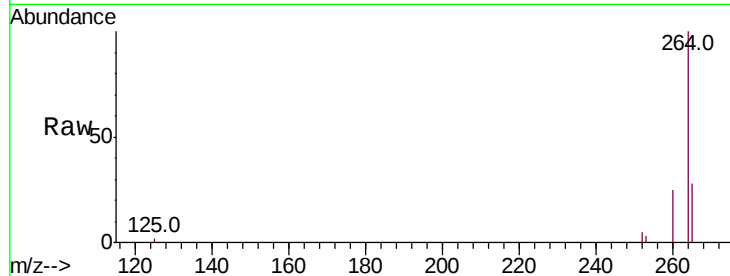
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.95 min Scan# 2224
Delta R.T. -0.01 min
Lab File: BE099714.D
Acq: 22 May 2019 10:47

Instrument :
BNA_E
ClientSampleId :
FESB-5(4.5-5)DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.1	19.6	29.4
265	27.8	19.1	28.7

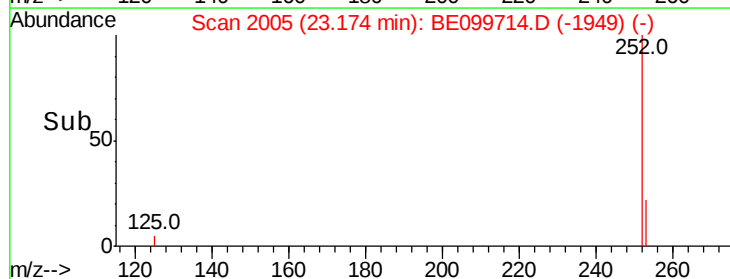
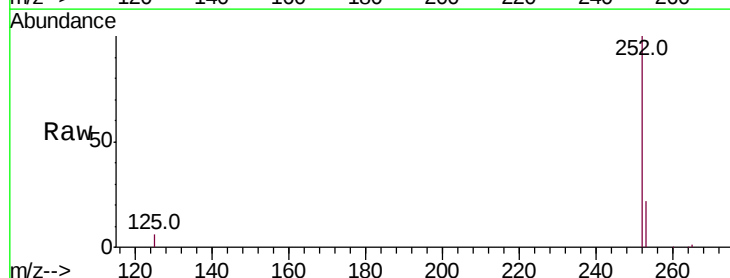
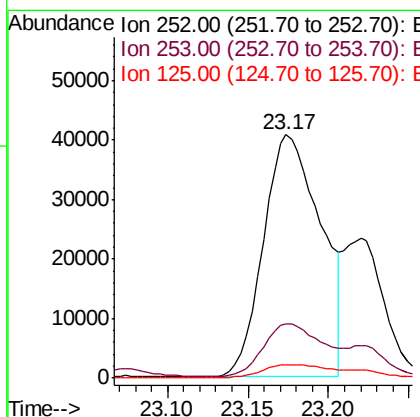
Manual Integrations
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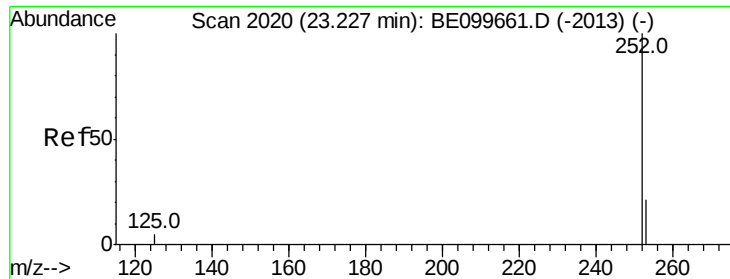
mohammad
5/24/2019 8:47:50 AM



#35
Benzo(b)fluoranthene
Concen: 2.112 ng
RT: 23.17 min Scan# 2005
Delta R.T. 0.00 min
Lab File: BE099714.D
Acq: 22 May 2019 10:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.2	27.4
125	5.7	4.5	6.7





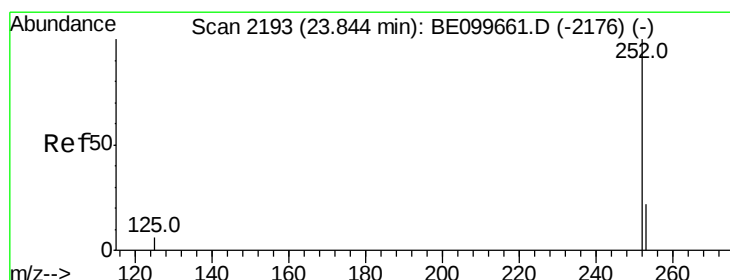
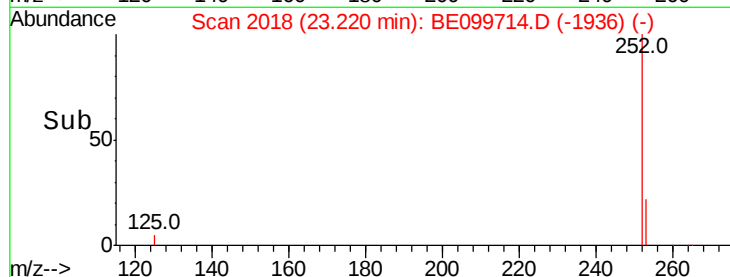
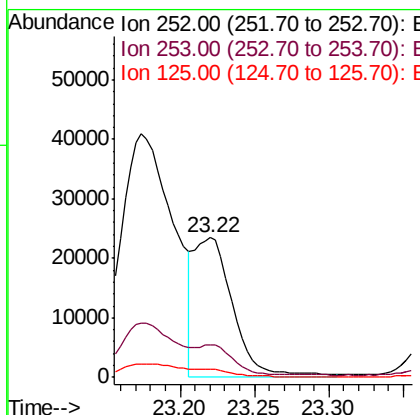
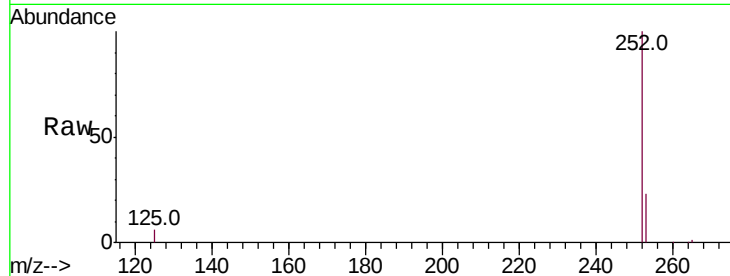
#36
Benzo(k)fluoranthene
Concen: 0.853 ng m
RT: 23.22 min Scan# 2018
Delta R.T. -0.01 min
Lab File: BE099714.D
Acq: 22 May 2019 10:47

Instrument :
BNA_E
ClientSampleId :
FESB-5(4.5-5)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.8	26.8
125	5.5	4.6	6.8

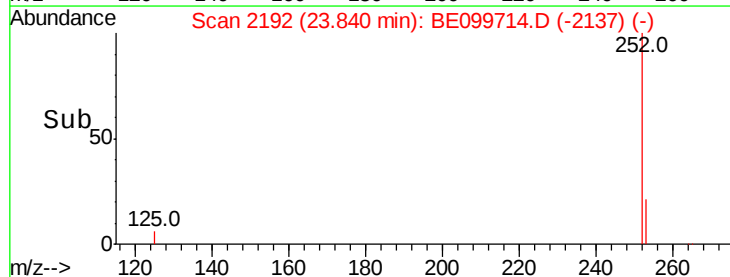
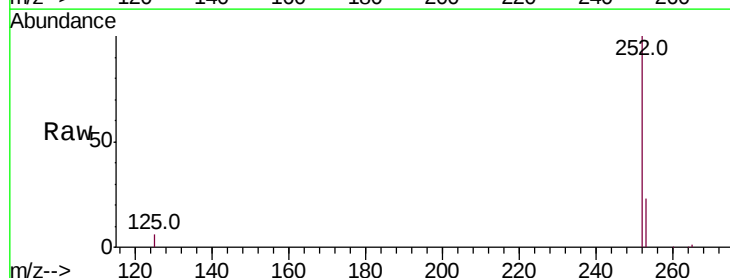
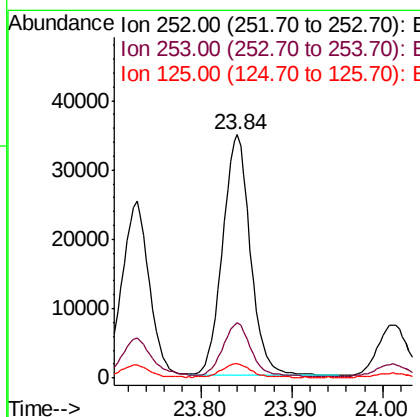
Manual Integrations
APPROVED

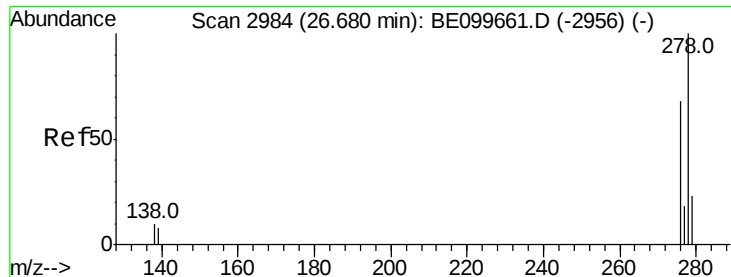
mohammad
5/24/2019 8:47:50 AM



#37
Benzo(a)pyrene
Concen: 1.589 ng
RT: 23.84 min Scan# 2192
Delta R.T. -0.00 min
Lab File: BE099714.D
Acq: 22 May 2019 10:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.9	28.3
125	6.0	5.4	8.0





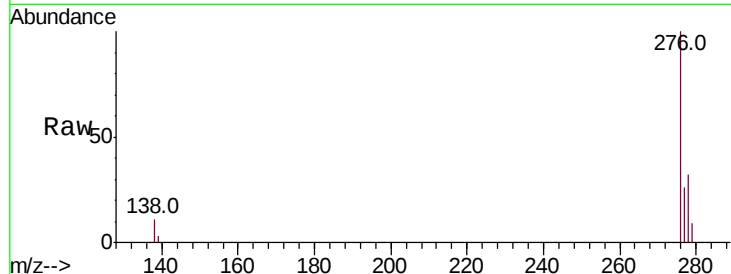
#38
Dibenzo(a,h)anthracene
Concen: 0.268 ng
RT: 26.66 min Scan# 2979
Delta R.T. -0.02 min
Lab File: BE099714.D
Acq: 22 May 2019 10:47

Instrument :
BNA_E
ClientSampleId :
FESB-5(4.5-5)DL

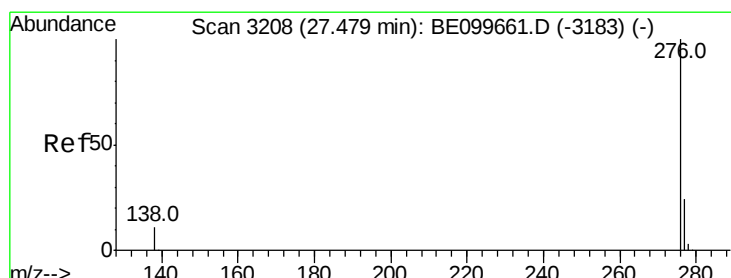
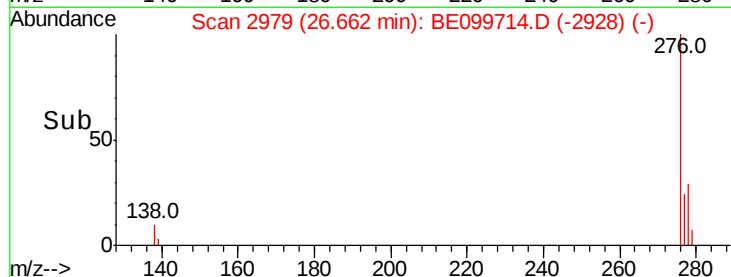
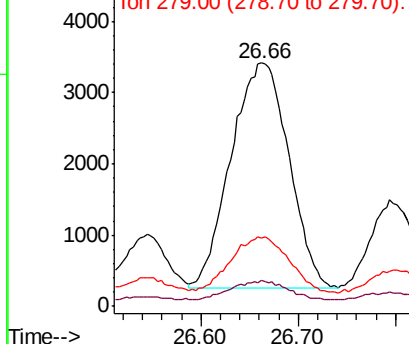
Tot Ion	Ratio	Lower	Upper
278	100		
139	10.7	6.9	10.3#
279	28.0	19.2	28.8

Manual Integrations
APPROVED

mohammad
5/24/2019 8:47:50 AM



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: 1.074 ng
RT: 27.48 min Scan# 3208
Delta R.T. 0.00 min
Lab File: BE099714.D
Acq: 22 May 2019 10:47

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.4	19.8	29.6
138	10.6	9.2	13.8

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

