

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE052319\
 Data File : BE099733.D
 Acq On : 23 May 2019 14:31
 Operator : JU/SJ
 Sample : K2966-01DL 5X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 FESB-13(9.5-10)DL

Manual Integrations
 APPROVED

Sohil
 5/24/2019 5:02:42 PM

Quant Time: May 23 15:21:41 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	7.80	152	1354	0.40	ng	-0.01
7) Naphthalene-d8	10.60	136	4786	0.40	ng	-0.01
13) Acenaphthene-d10	14.47	164	3816	0.40	ng	-0.01
19) Phenanthrene-d10	17.21	188	11501	0.40	ng	-0.01
27) Chrysene-d12	21.40	240	18132	0.40	ng	-0.01
34) Perylene-d12	23.94	264	30302	0.40	ng	-0.02

System Monitoring Compounds

4) 2-Fluorophenol	5.36	112	252	0.07	ng	-0.01
5) Phenol-d6	6.96	99	349	0.08	ng	-0.01
8) Nitrobenzene-d5	8.97	82	289	0.07	ng	-0.01
11) 2-Methylnaphthalene-d10	12.21	152	506	0.06	ng	-0.01
14) 2,4,6-Tribromophenol	15.97	330	172	0.20	ng	-0.01
15) 2-Fluorobiphenyl	13.10	172	725	0.05	ng	0.00
25) Fluoranthene-d10	19.25	212	7504	0.05	ng	-0.01
29) Terphenyl-d14	19.85	244	1733	0.05	ng	-0.02

Target Compounds

						Qvalue
9) Naphthalene	10.65	128	4067	0.079	ng	# 95
12) 2-Methylnaphthalene	12.28	142	265	0.032	ng	# 84
16) Acenaphthylene	14.20	152	8847	0.497	ng	99
17) Acenaphthene	14.54	154	705	0.071	ng	98
18) Fluorene	15.51	166	2059	0.140	ng	93
23) Phenanthrene	17.25	178	22676	0.807	ng	100
24) Anthracene	17.35	178	13227	0.519	ng	99
26) Fluoranthene	19.28	202	77989	1.755	ng	99
28) Pyrene	19.64	202	83136	1.825	ng	# 96
30) Benzo(a)anthracene	21.39	228	62451	1.212	ng	93
31) Chrysene	21.44	228	52928	0.961	ng	98
32) Bis(2-ethylhexyl)phthalate	21.31	149	8166	0.138	ng	# 100
33) Indeno(1,2,3-cd)pyrene	26.62	276	46848	0.704	ng	98
35) Benzo(b)fluoranthene	23.16	252	78963	0.951	ng	98
36) Benzo(k)fluoranthene	23.20	252	26598m	0.307	ng	
37) Benzo(a)pyrene	23.82	252	65021	0.814	ng	99
38) Dibenzo(a,h)anthracene	26.63	278	11962	0.143	ng	# 88
39) Benzo(a,h,i)perylene	27.45	276	45699	0.539	ng	99

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

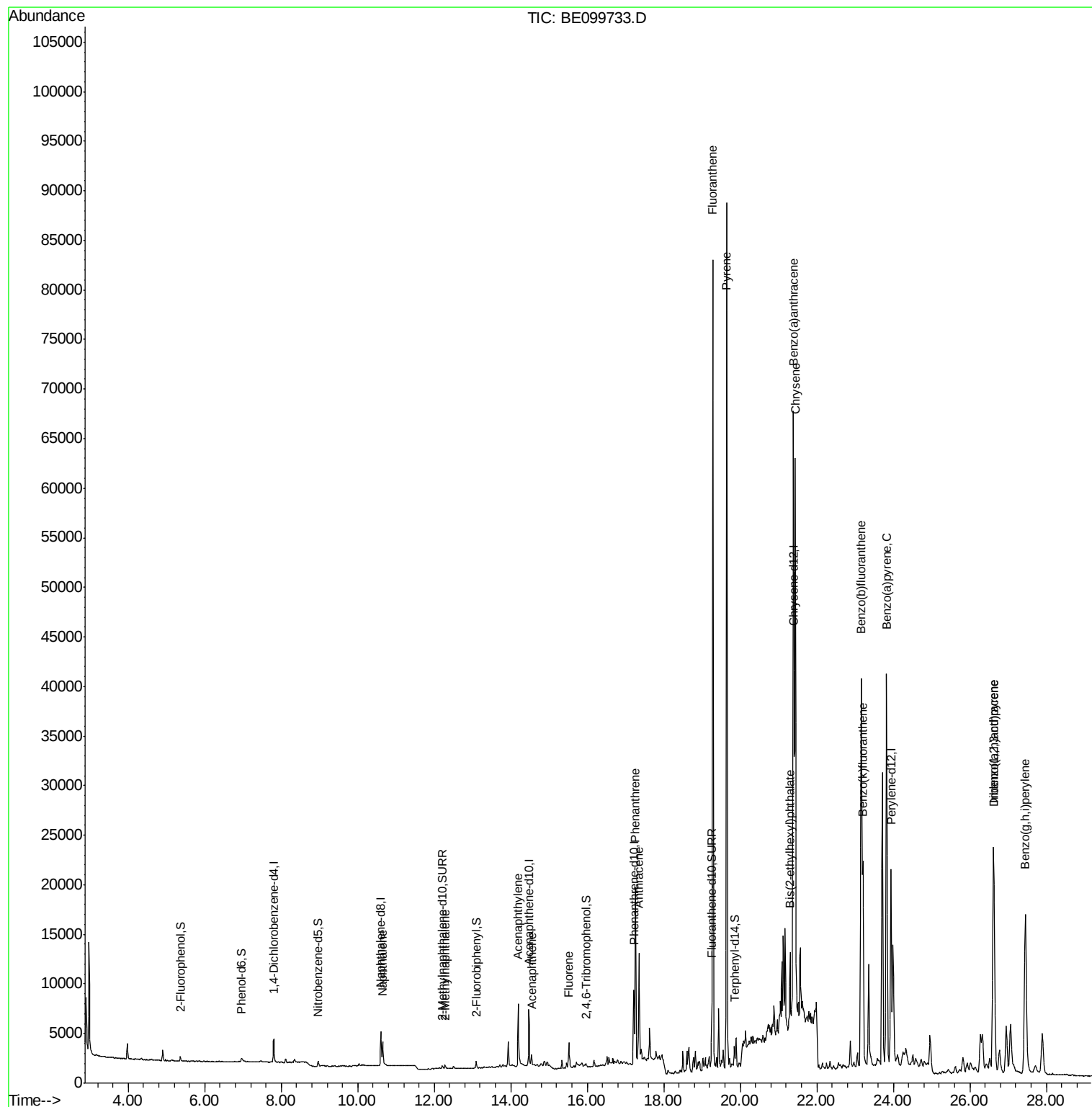
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE052319\
Data File : BE099733.D
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#1

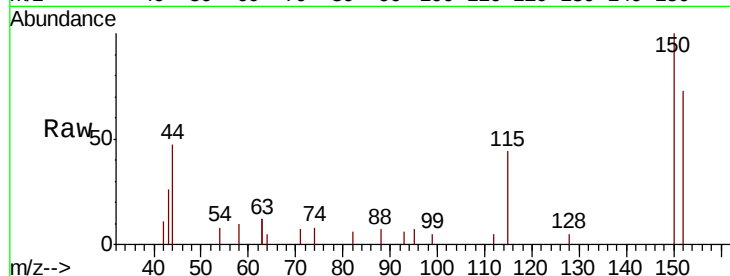
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.80 min Scan# 429
Delta R.T. -0.01 min
Lab File: BE099733.D
Acq: 23 May 2019 14:31

Instrument :
BNA_E
ClientSampleId :
FESB-13(9.5-10)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	136.1	109.2	163.8
115	59.8	43.7	65.5

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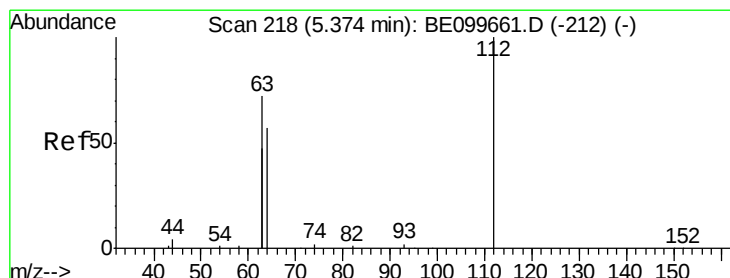
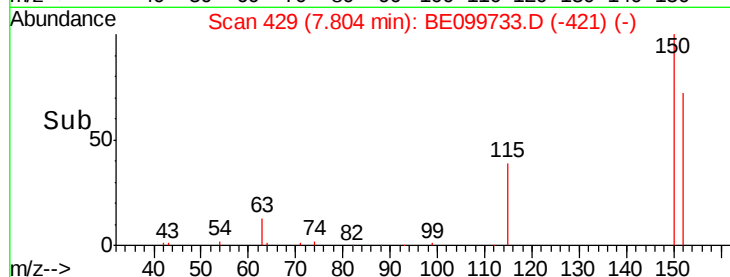
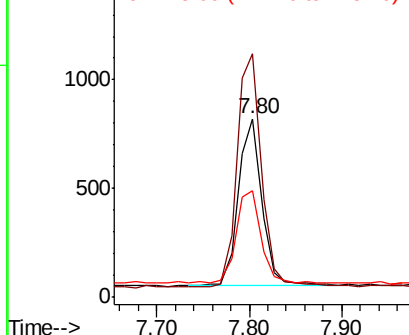


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

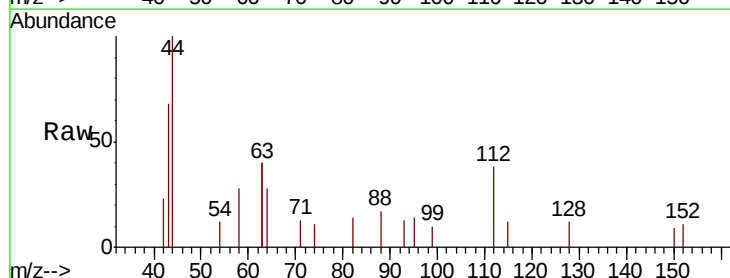
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.074 ng
RT: 5.36 min Scan# 217
Delta R.T. -0.01 min
Lab File: BE099733.D
Acq: 23 May 2019 14:31

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.7	43.4	65.2
63	121.0	96.9	145.3

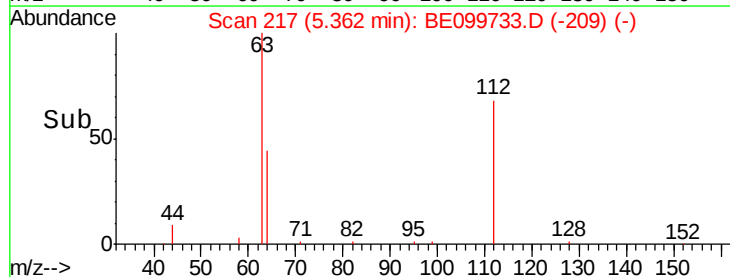
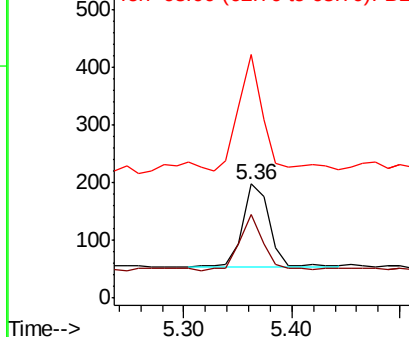


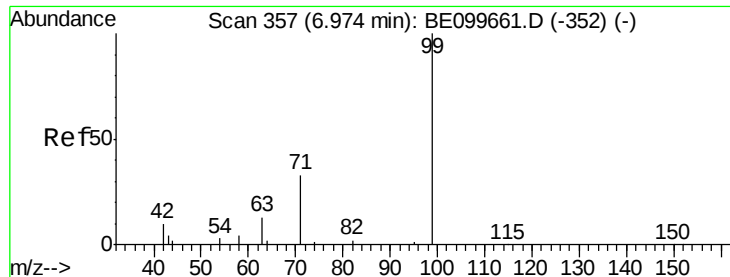
Abundance

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: 0.077 ng

RT: 6.96 min Scan# 356

Delta R.T. -0.01 min

Lab File: BE099733.D

Acq: 23 May 2019 14:31

Instrument :

BNA_E

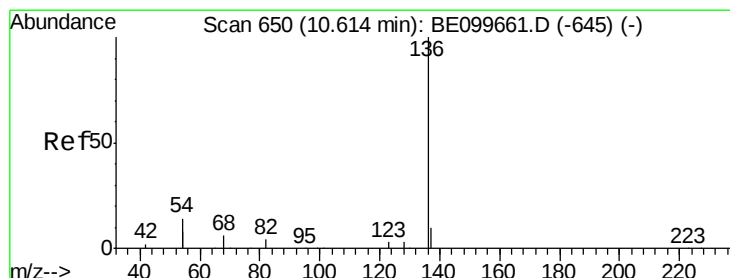
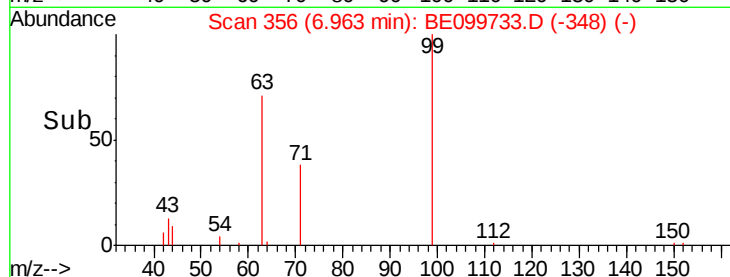
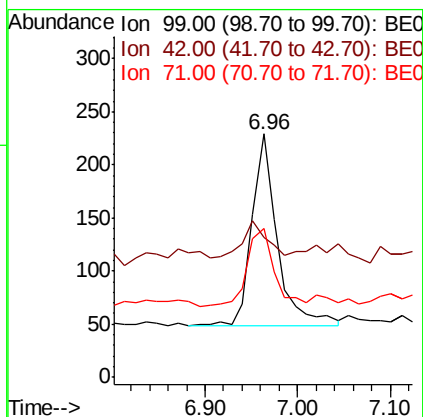
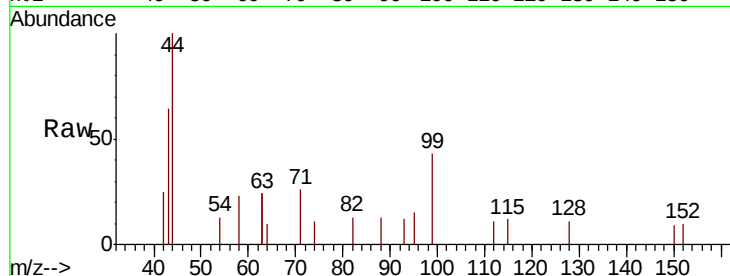
ClientSampleId :

FESB-13(9.5-10)DL

Tot Ion:	99	Resp:	349
Ion	Ratio	Lower	Upper
99	100		
42	17.8	12.2	18.2
71	43.8	28.9	43.3#

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#7

Naphthalene-d8

Concen: 0.400 ng

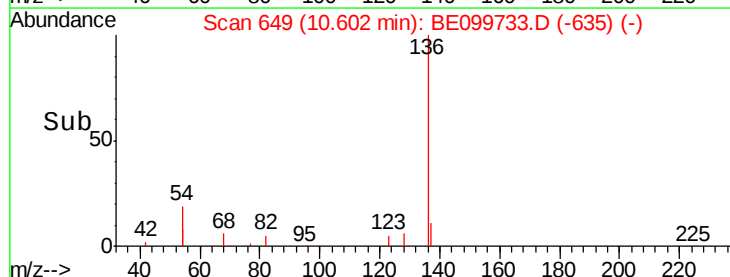
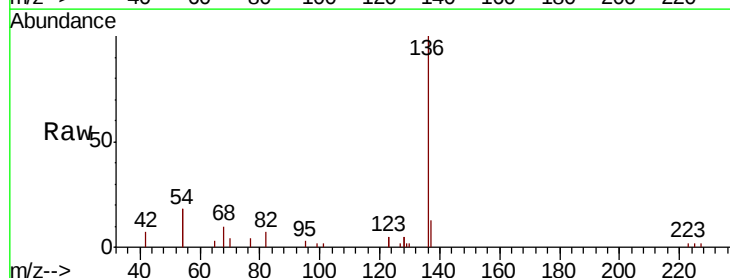
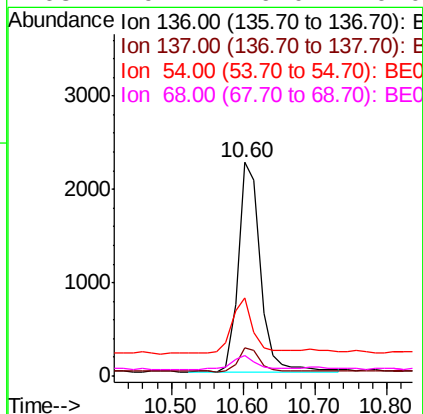
RT: 10.60 min Scan# 649

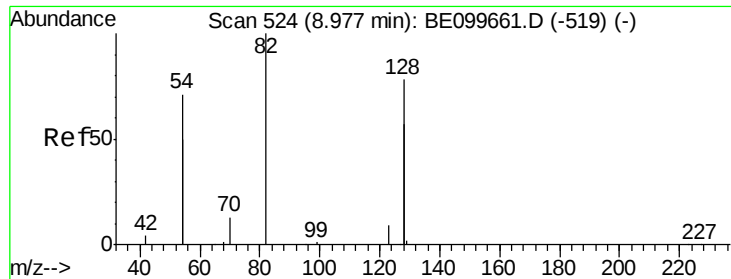
Delta R.T. -0.01 min

Lab File: BE099733.D

Acq: 23 May 2019 14:31

Tgt Ion:	136	Resp:	4786
Ion	Ratio	Lower	Upper
136	100		
137	13.5	9.0	13.6
54	36.7	22.3	33.5#
68	9.7	6.0	9.0#





#8

Nitrobenzene-d5

Concen: 0.070 ng

RT: 8.97 min Scan# 523

Delta R.T. -0.01 min

Lab File: BE099733.D

Acq: 23 May 2019 14:31

Instrument :

BNA_E

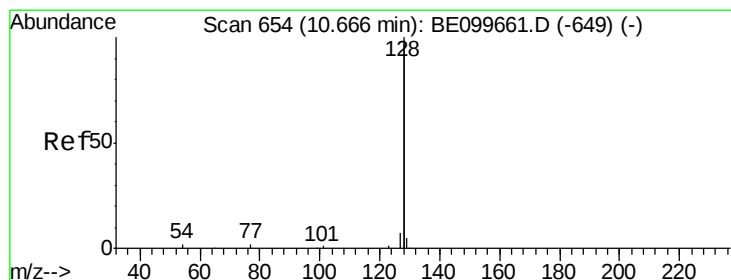
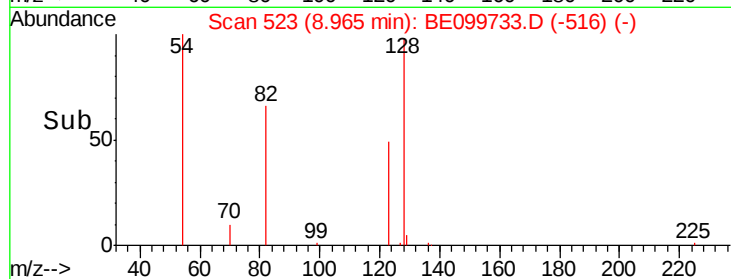
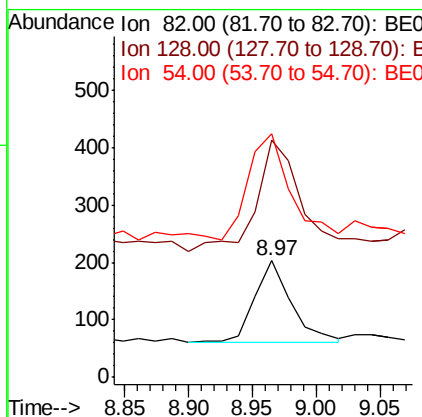
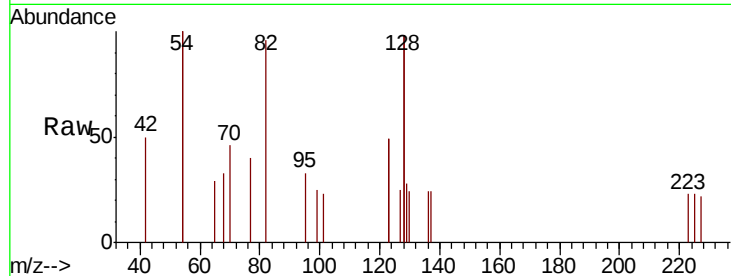
ClientSampleId :

FESB-13(9.5-10)DL

Tot Ion:	82	Resp:	289
Ion	Ratio	Lower	Upper
82	100		
128	203.9	117.7	176.5#
54	208.9	106.6	160.0#

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#9

Naphthalene

Concen: 0.079 ng

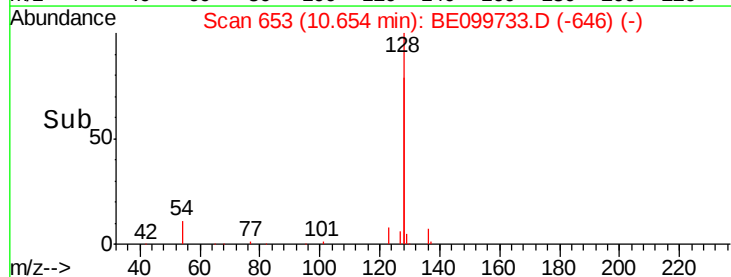
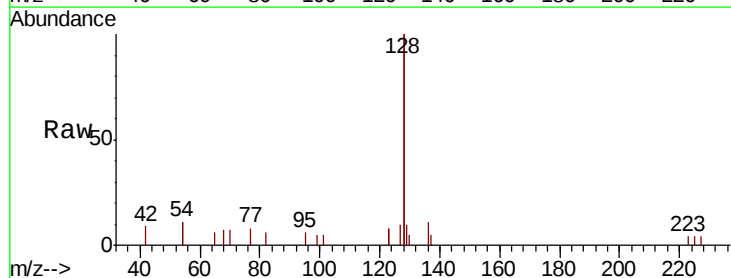
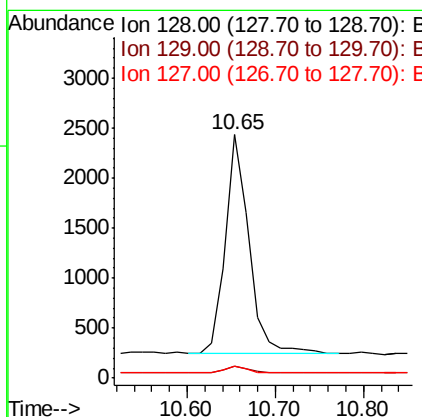
RT: 10.65 min Scan# 653

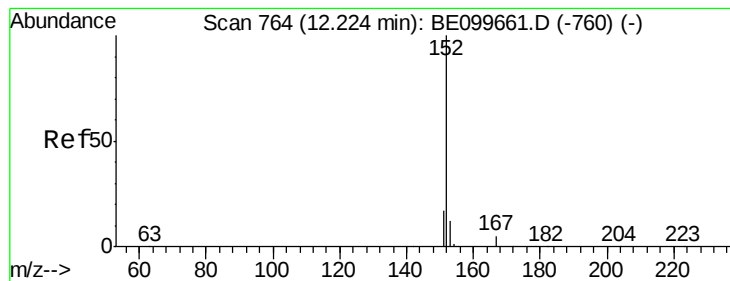
Delta R.T. -0.01 min

Lab File: BE099733.D

Acq: 23 May 2019 14:31

Tgt Ion:	128	Resp:	4067
Ion	Ratio	Lower	Upper
128	100		
129	4.8	2.4	3.6#
127	5.1	2.9	4.3#





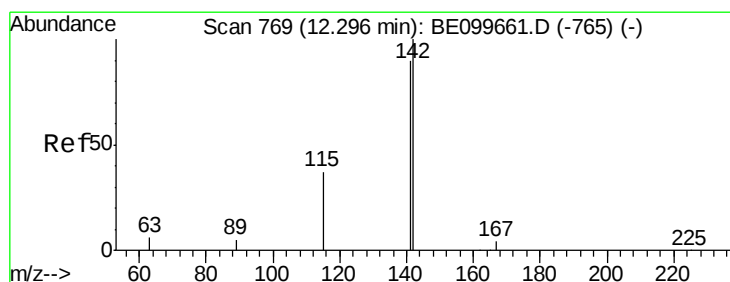
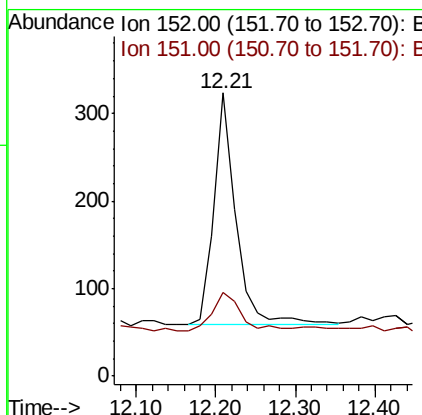
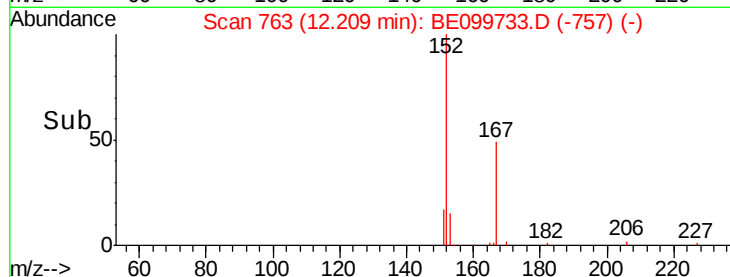
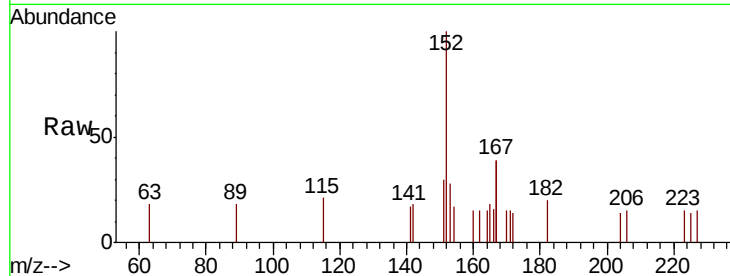
#11
2-Methylnaphthalene-d10
Concen: 0.061 ng
RT: 12.21 min Scan# 763
Delta R.T. -0.01 min
Lab File: BE099733.D
Acq: 23 May 2019 14:31

Instrument :
BNA_E
ClientSampleId :
FESB-13(9.5-10)DL

Tot Ion:152 Resp: 506
Ion Ratio Lower Upper
152 100
151 21.3 15.0 22.4

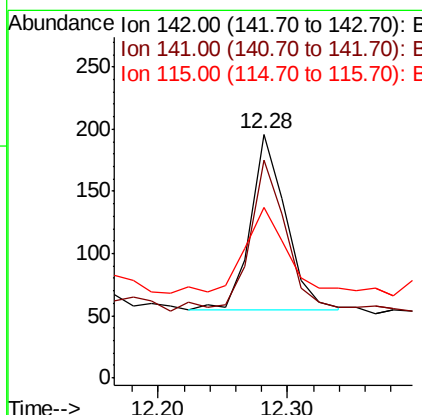
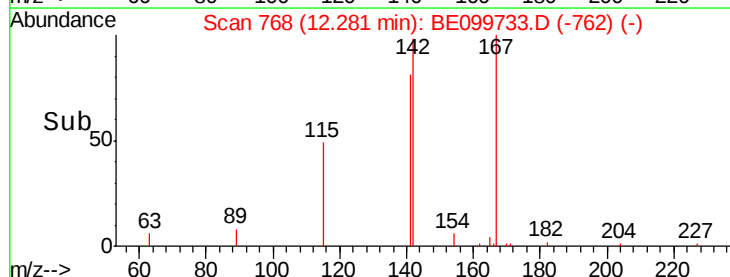
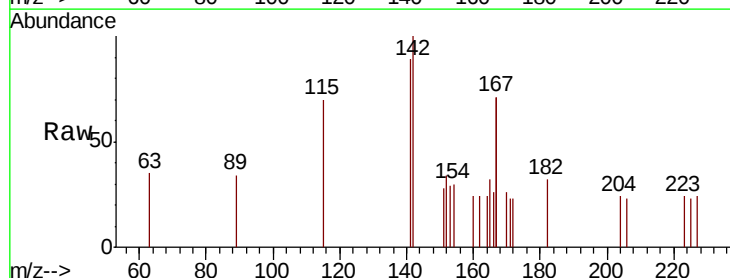
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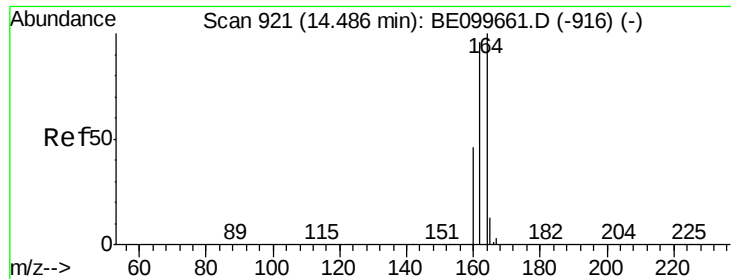
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#12
2-Methylnaphthalene
Concen: 0.032 ng
RT: 12.28 min Scan# 768
Delta R.T. -0.01 min
Lab File: BE099733.D
Acq: 23 May 2019 14:31

Tgt Ion:142 Resp: 265
Ion Ratio Lower Upper
142 100
141 89.3 72.0 108.0
115 69.9 31.0 46.4#





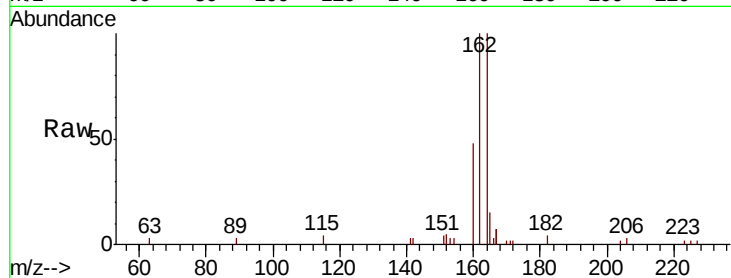
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.47 min Scan# 920
Delta R.T. -0.01 min
Lab File: BE099733.D
Acq: 23 May 2019 14:31

Instrument :
BNA_E
ClientSampleId :
FESB-13(9.5-10)DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	99.6	76.5	114.7
160	47.6	37.4	56.2

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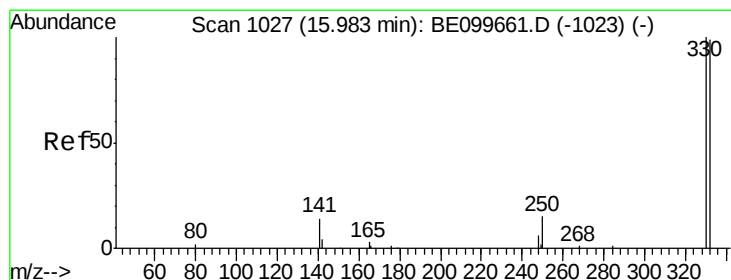
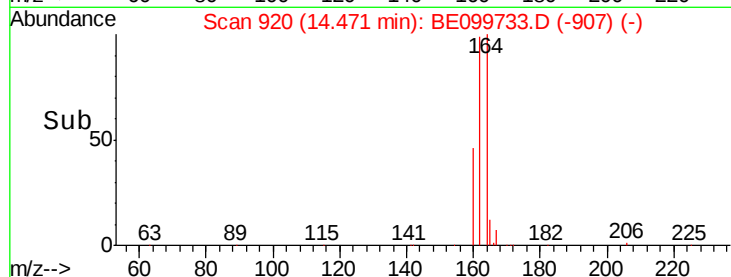
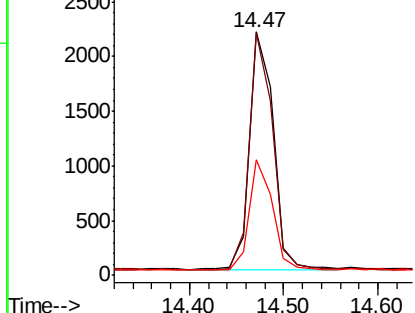


Abundance

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



#14
2,4,6-Tribromophenol
Concen: 0.200 ng
RT: 15.97 min Scan# 1026
Delta R.T. -0.01 min
Lab File: BE099733.D
Acq: 23 May 2019 14:31

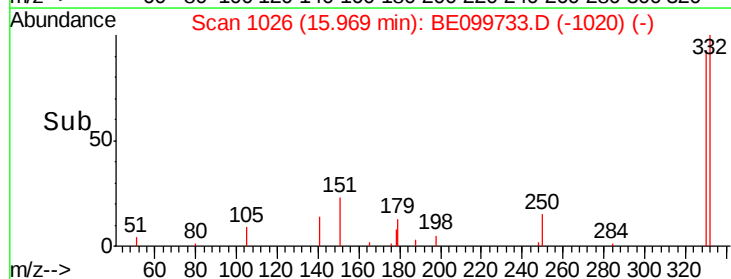
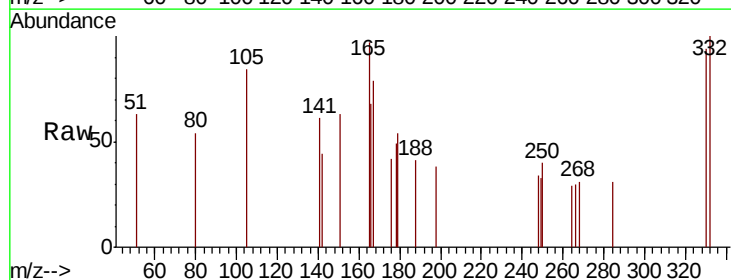
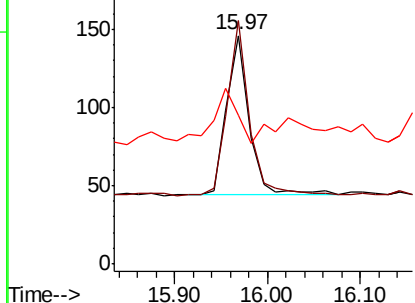
Tgt Ion	Ratio	Lower	Upper
330	100		
332	111.0	77.3	115.9
141	36.6	18.9	28.3

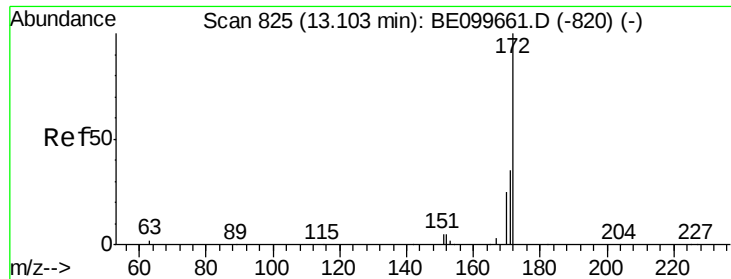
Abundance

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





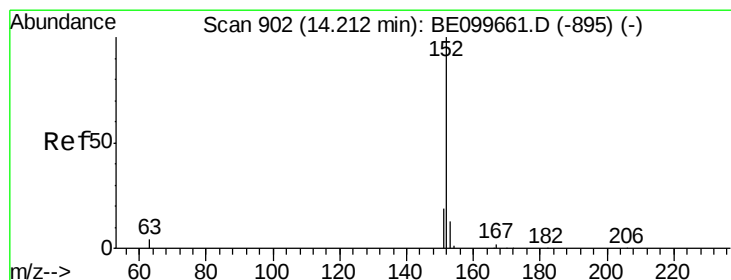
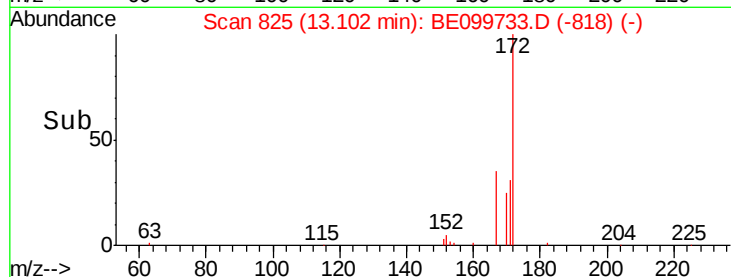
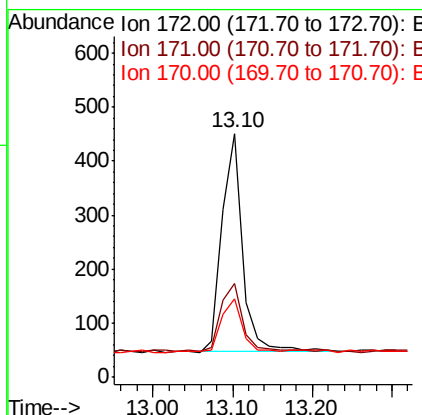
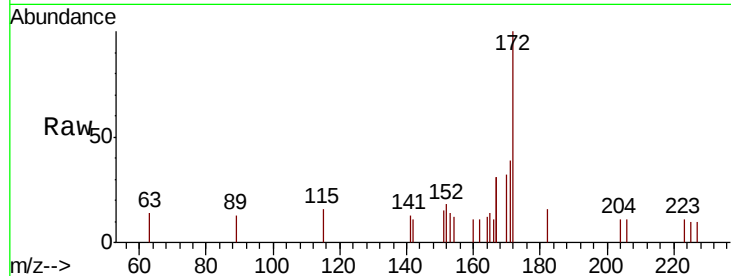
#15
2-Fluorobiphenyl
Concen: 0.050 ng
RT: 13.10 min Scan# 825
Delta R.T. -0.00 min
Lab File: BE099733.D
Acq: 23 May 2019 14:31

Instrument :
BNA_E
ClientSampleId :
FESB-13(9.5-10)DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	38.6	28.7	43.1
170	32.4	20.9	31.3

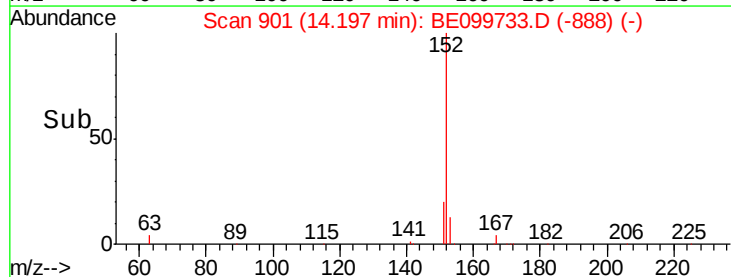
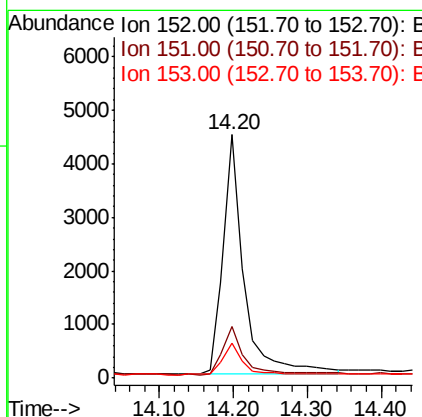
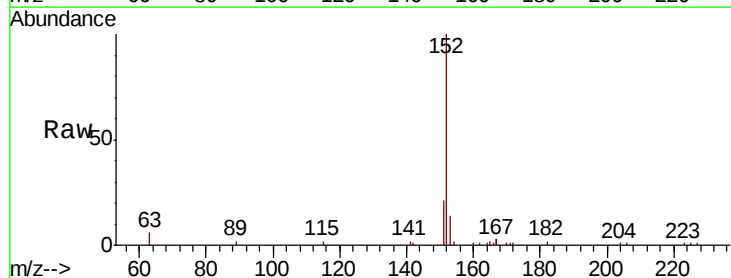
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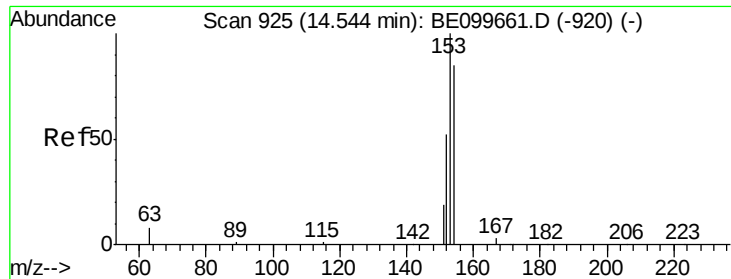
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#16
Acenaphthylene
Concen: 0.497 ng
RT: 14.20 min Scan# 901
Delta R.T. -0.01 min
Lab File: BE099733.D
Acq: 23 May 2019 14:31

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.5	15.9	23.9
153	12.9	10.6	16.0





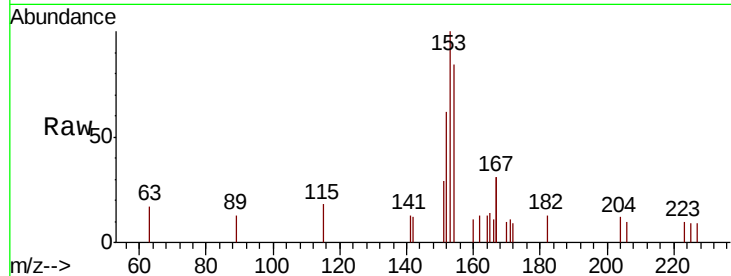
#17
Acenaphthene
Concen: 0.071 ng
RT: 14.54 min Scan# 925
Delta R.T. -0.00 min
Lab File: BE099733.D
Acq: 23 May 2019 14:31

Instrument :
BNA_E
ClientSampleId :
FESB-13(9.5-10)DL

Tot Ion	Ratio	Lower	Upper
154	100		
153	115.6	91.8	137.6
152	55.3	46.0	69.0

Manual Integrations
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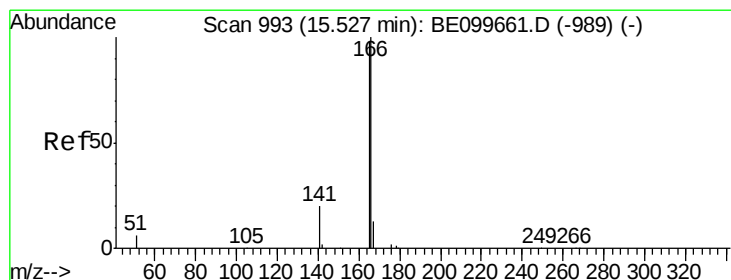
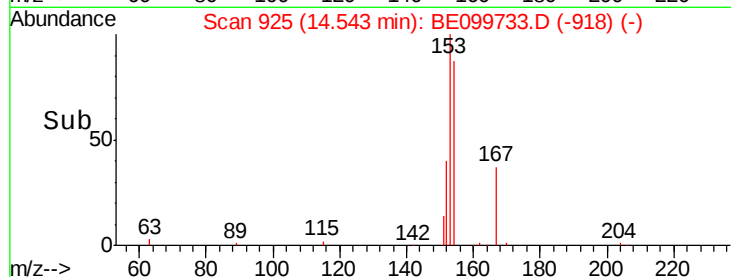
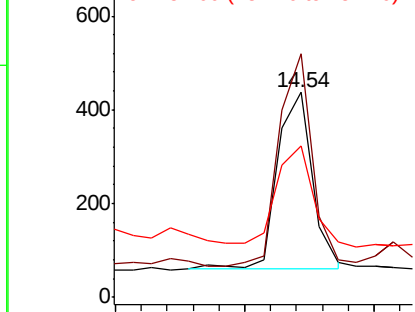


Abundance

Ion 154.00 (153.70 to 154.70): E

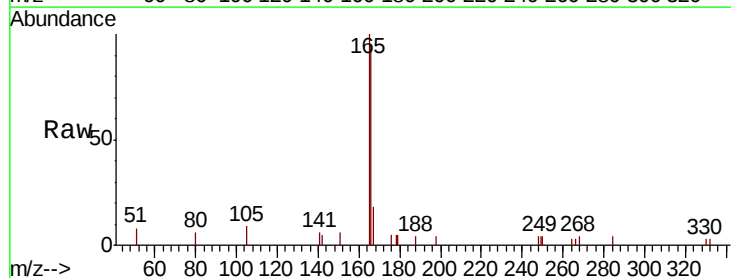
Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#18
Fluorene
Concen: 0.140 ng
RT: 15.51 min Scan# 992
Delta R.T. -0.01 min
Lab File: BE099733.D
Acq: 23 May 2019 14:31

Tgt Ion	Ratio	Lower	Upper
166	100		
165	107.8	80.3	120.5
167	14.9	10.6	16.0

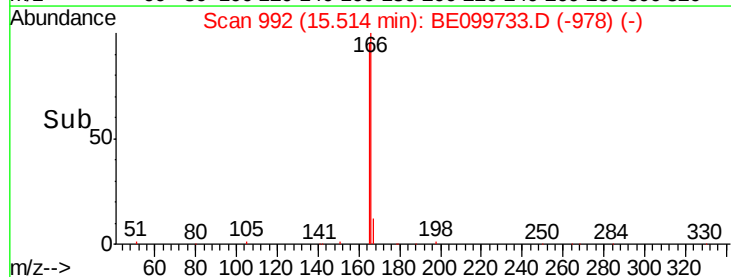
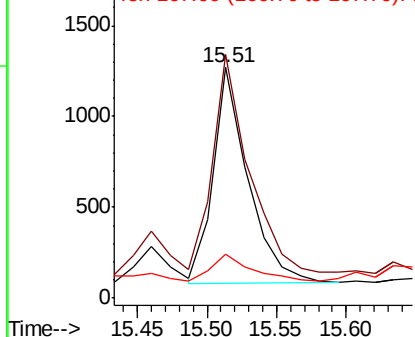


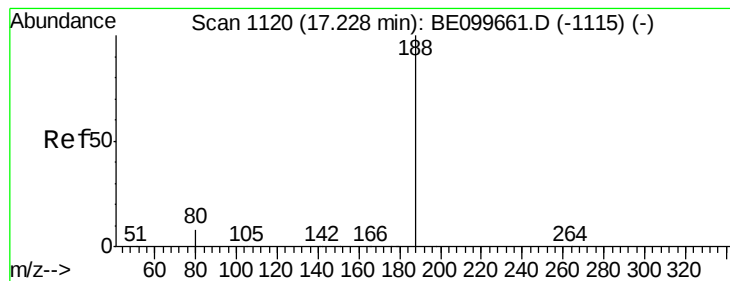
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.21 min Scan# 1119

Delta R.T. -0.01 min

Lab File: BE099733.D

Acq: 23 May 2019 14:31

Instrument :

BNA_E

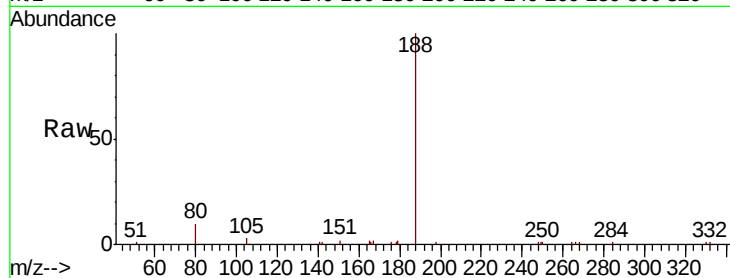
ClientSampleId :

FESB-13(9.5-10)DL

Tot Ion:	188	Resp:	11501
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	9.7	6.7	10.1

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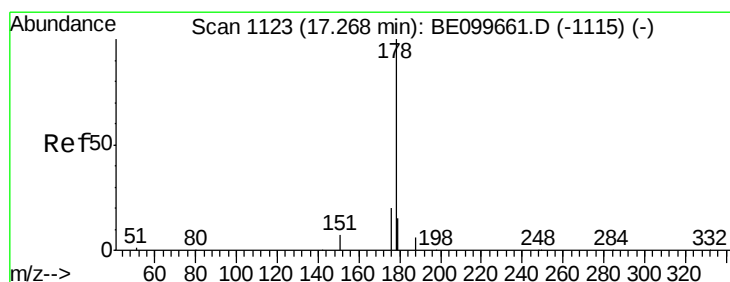
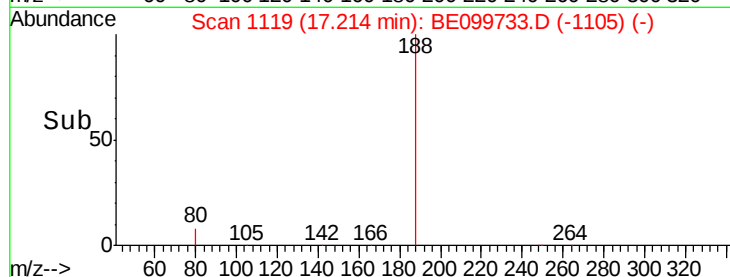
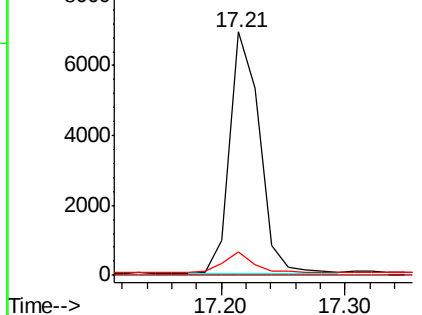
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#23

Phenanthrene

Concen: 0.807 ng

RT: 17.25 min Scan# 1122

Delta R.T. -0.01 min

Lab File: BE099733.D

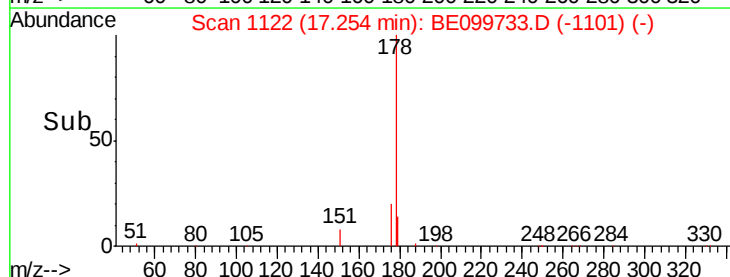
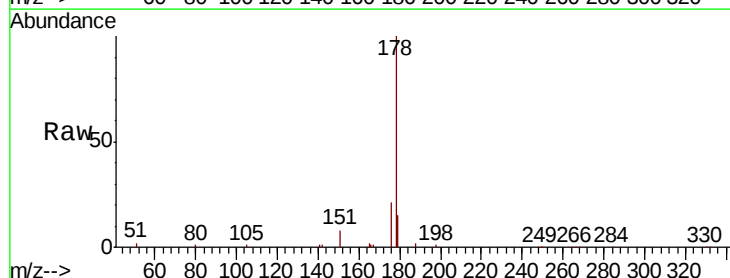
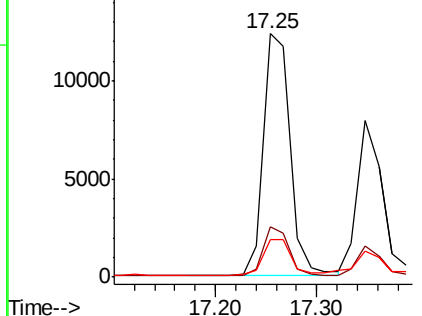
Acq: 23 May 2019 14:31

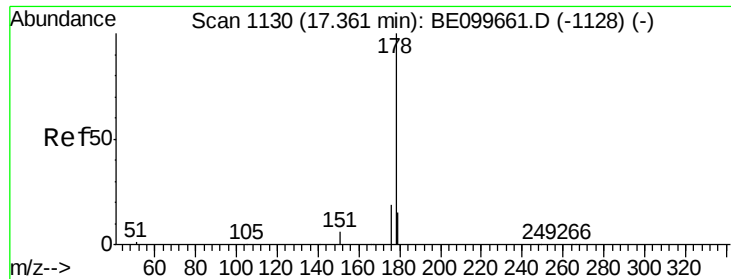
Tgt Ion:	178	Resp:	22676
Ion Ratio	Lower	Upper	
178	100		
176	19.2	15.6	23.4
179	15.4	12.2	18.4

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





#24

Anthracene

Concen: 0.519 ng

RT: 17.35 min Scan# 1129

Delta R.T. -0.01 min

Lab File: BE099733.D

Acq: 23 May 2019 14:31

Instrument :

BNA_E

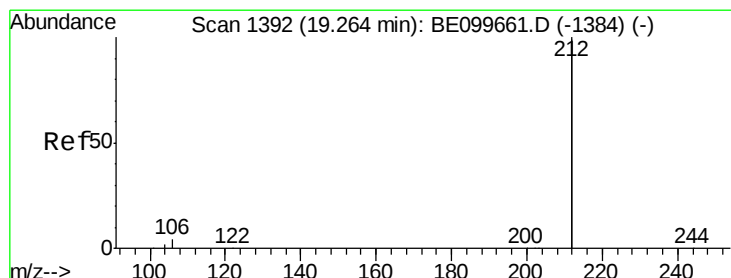
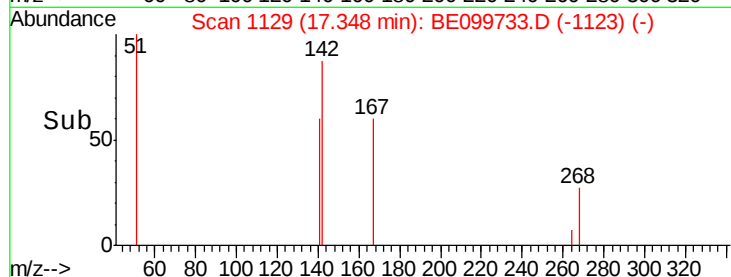
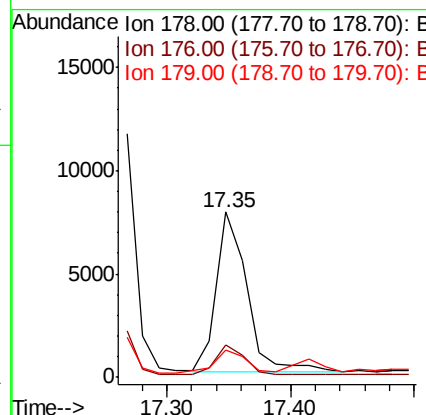
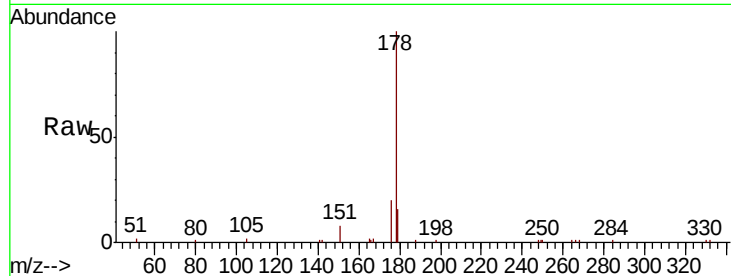
ClientSampleId :

FESB-13(9.5-10)DL

Tot Ion:	178	Resp:	13227
Ion Ratio	Lower	Upper	
178	100		
176	18.6	14.7	22.1
179	15.3	12.0	18.0

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#25

Fluoranthene-d10

Concen: 0.048 ng

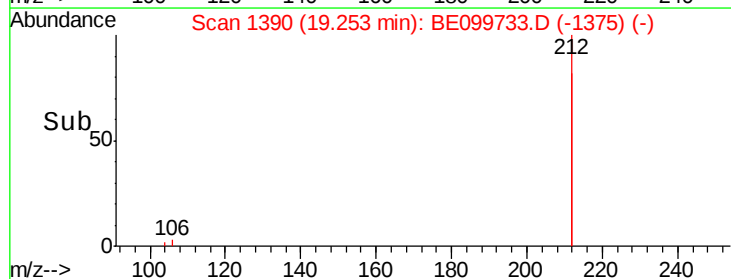
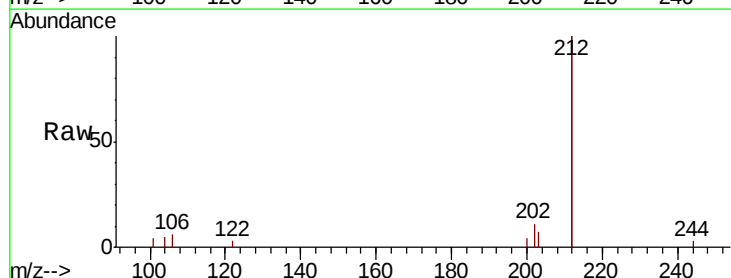
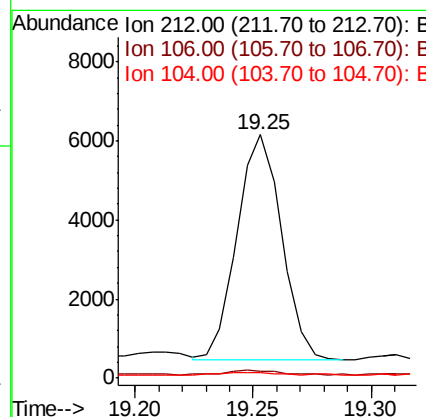
RT: 19.25 min Scan# 1390

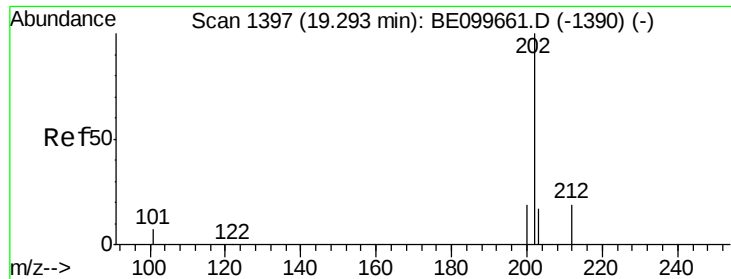
Delta R.T. -0.01 min

Lab File: BE099733.D

Acq: 23 May 2019 14:31

Tgt Ion:	212	Resp:	7504
Ion Ratio	Lower	Upper	
212	100		
106	2.4	1.4	2.2#
104	1.5	0.8	1.2#





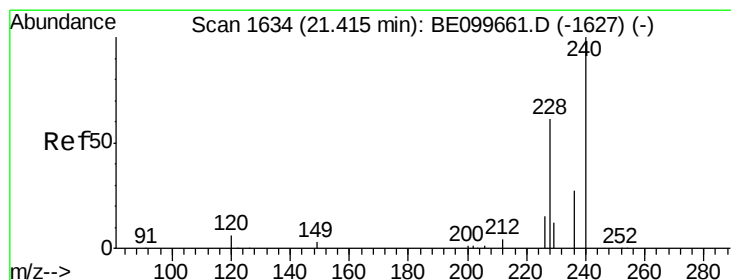
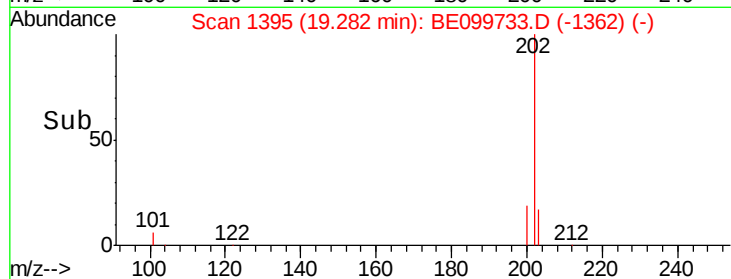
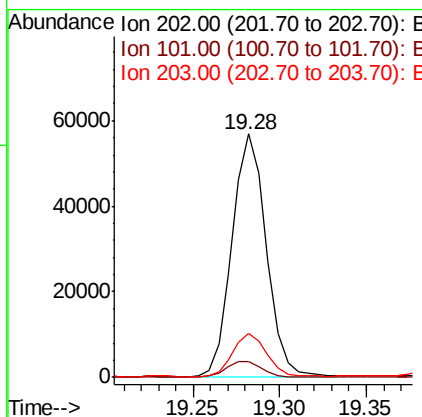
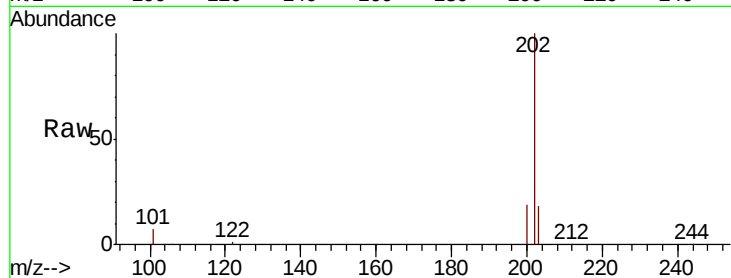
#26
Fluoranthene
Concen: 1.755 ng
RT: 19.28 min Scan# 1395
Delta R.T. -0.01 min
Lab File: BE099733.D
Acq: 23 May 2019 14:31

Instrument :
BNA_E
ClientSampleId :
FESB-13(9.5-10)DL

Tot Ion	Ratio	Lower	Upper
202	100		
101	6.6	5.2	7.8
203	17.6	13.8	20.6

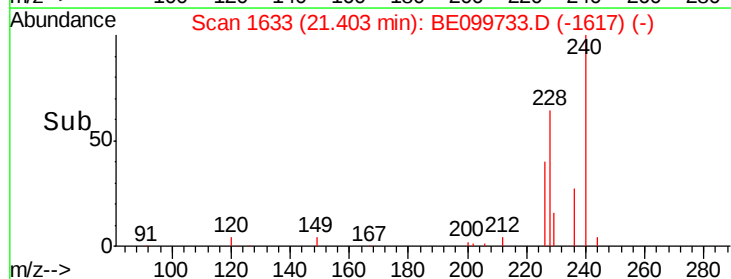
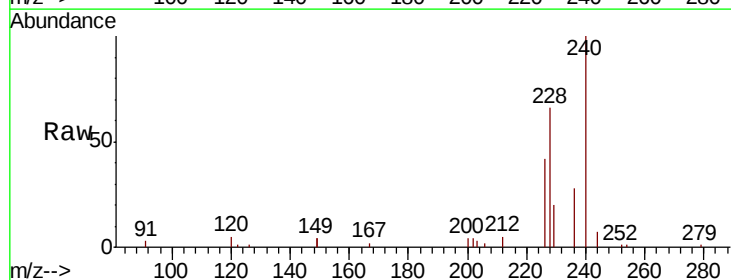
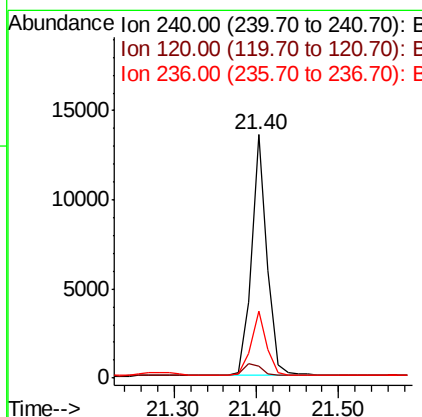
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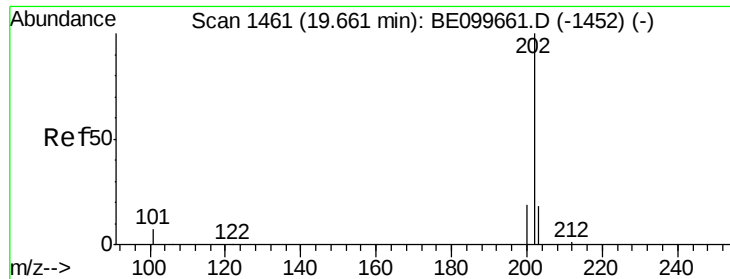
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#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.40 min Scan# 1633
Delta R.T. -0.01 min
Lab File: BE099733.D
Acq: 23 May 2019 14:31

Tgt Ion	Ratio	Lower	Upper
240	100		
120	4.7	5.4	8.0#
236	27.7	21.7	32.5





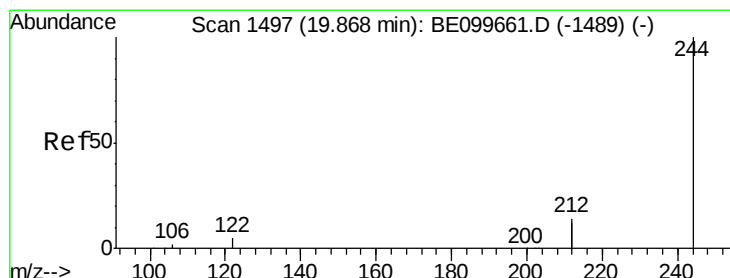
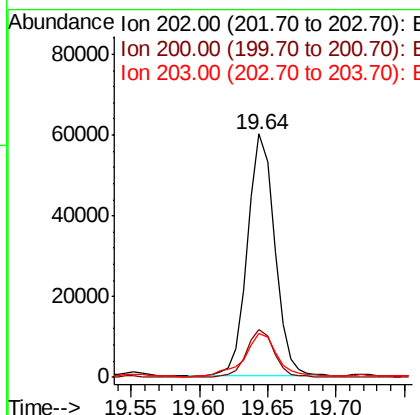
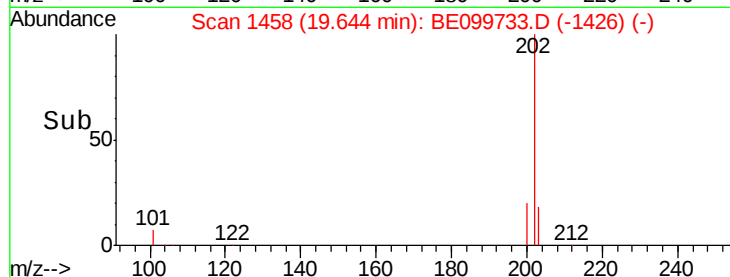
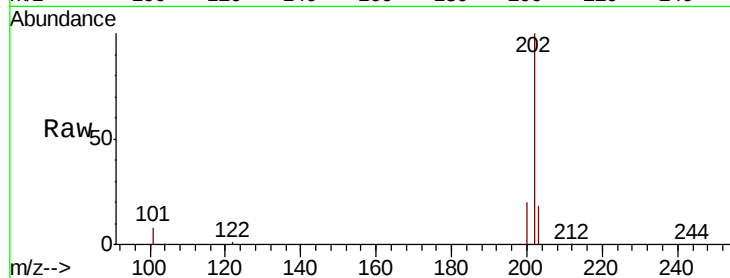
#28
Pvrene
Concen: 1.825 ng
RT: 19.64 min Scan# 1458
Delta R.T. -0.02 min
Lab File: BE099733.D
Acq: 23 May 2019 14:31

Instrument :
BNA_E
ClientSampleId :
FESB-13(9.5-10)DL

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

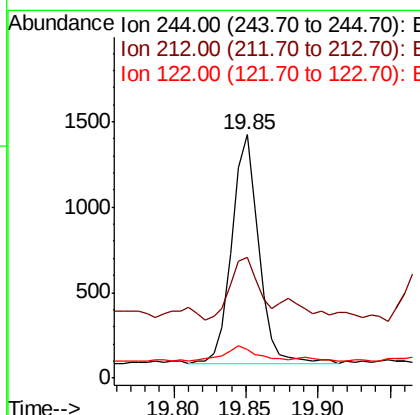
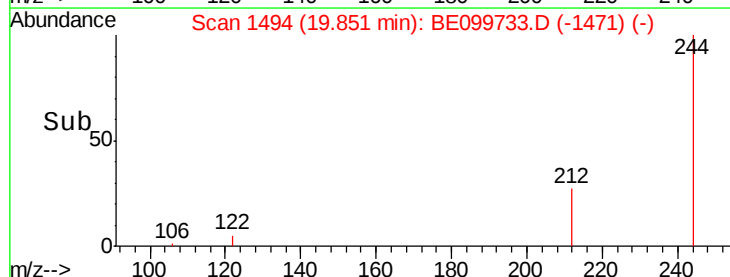
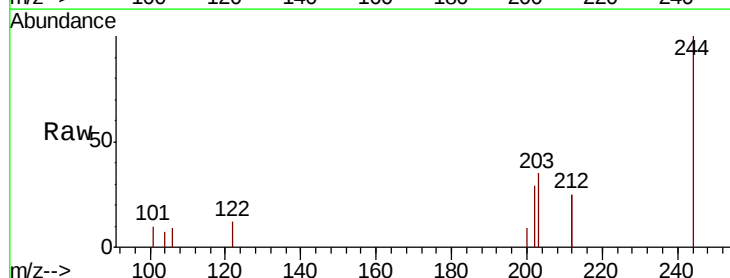
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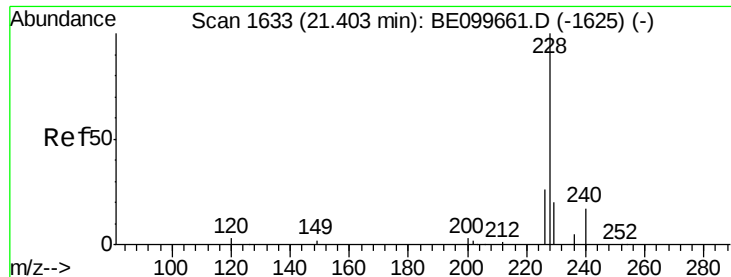
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#29
Terphenyl-d14
Concen: 0.054 ng
RT: 19.85 min Scan# 1494
Delta R.T. -0.02 min
Lab File: BE099733.D
Acq: 23 May 2019 14:31

Tgt Ion	Ratio	Lower	Upper
244	100		
212	49.7	22.5	33.7
122	11.8	4.3	6.5





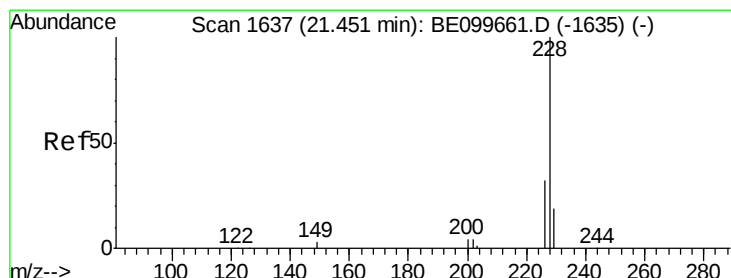
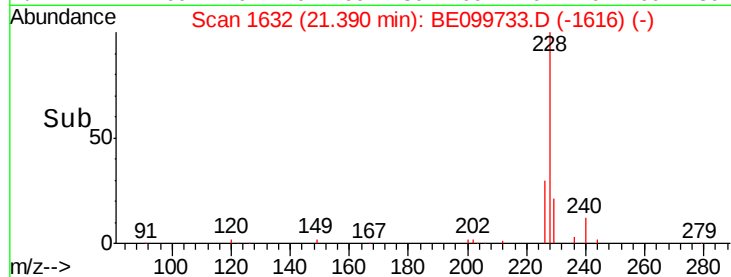
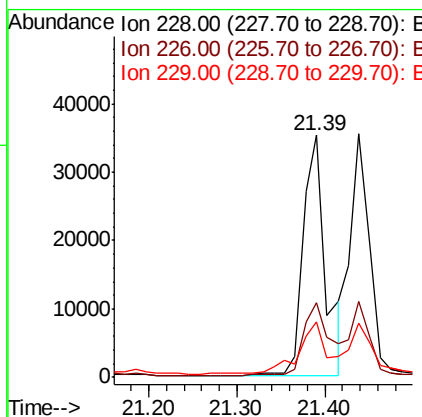
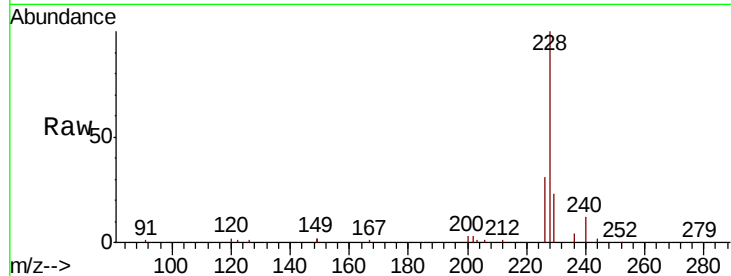
#30
Benzo(a)anthracene
Concen: 1.212 ng
RT: 21.39 min Scan# 1632
Delta R.T. -0.01 min
Lab File: BE099733.D
Acq: 23 May 2019 14:31

Instrument :
BNA_E
ClientSampleId :
FESB-13(9.5-10)DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.8	21.3	31.9
229	23.0	16.1	24.1

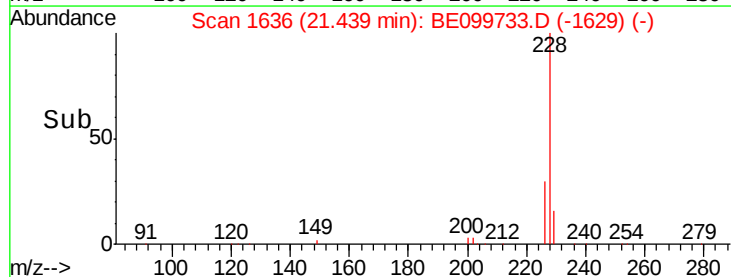
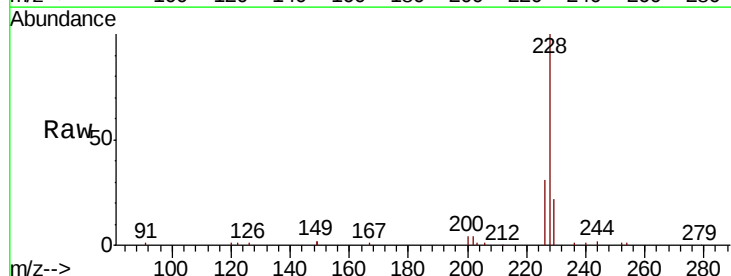
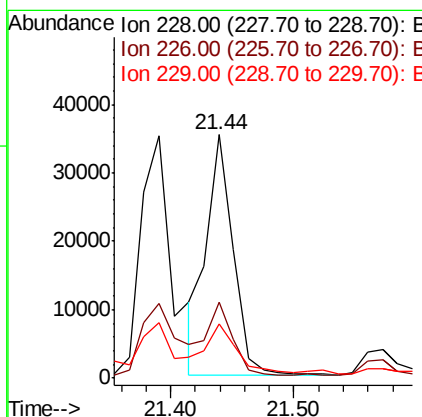
Manual Integrations
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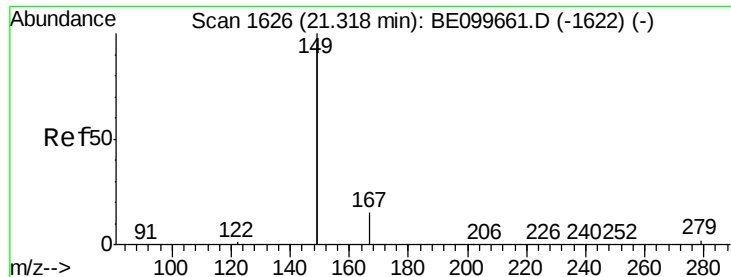
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#31
Chrysene
Concen: 0.961 ng
RT: 21.44 min Scan# 1636
Delta R.T. -0.01 min
Lab File: BE099733.D
Acq: 23 May 2019 14:31

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.7	37.1
229	22.3	15.8	23.6





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.138 ng

RT: 21.31 min Scan# 1625

Delta R.T. -0.01 min

Lab File: BE099733.D

Acq: 23 May 2019 14:31

Instrument :

BNA_E

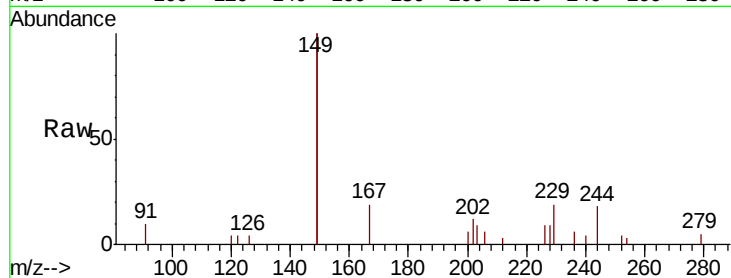
ClientSampleId :

FESB-13(9.5-10)DL

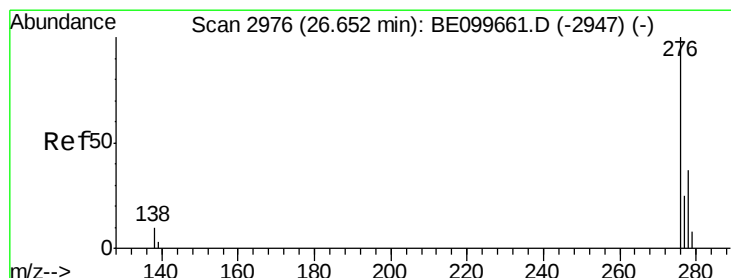
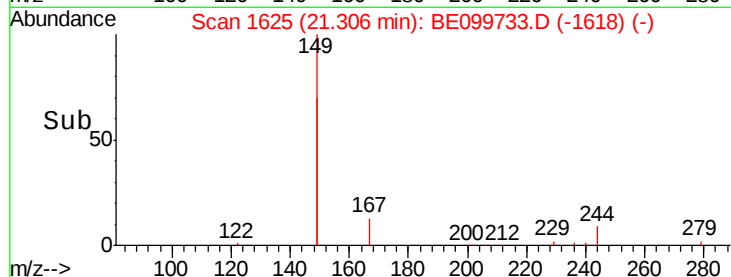
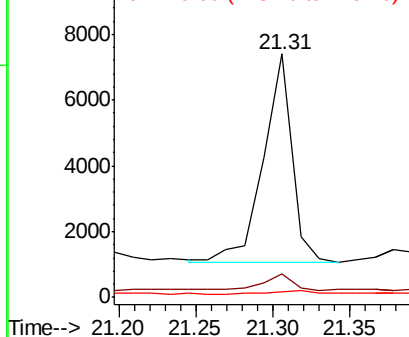
Tot Ion:	149	Resp:	8166
Ion Ratio	Lower	Upper	
149	100		
167	7.7	6.2	9.4
279	2.0	1.2	1.8#

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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: 0.704 ng

RT: 26.62 min Scan# 2966

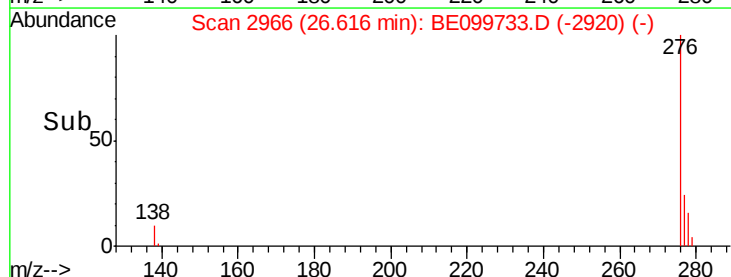
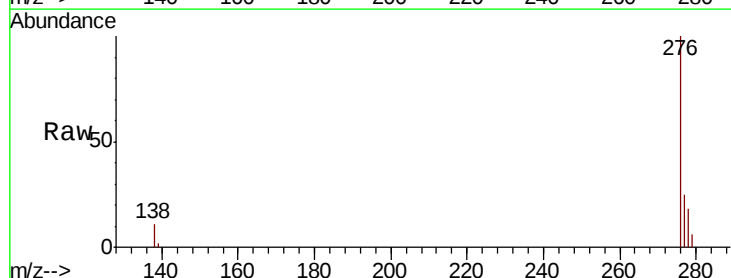
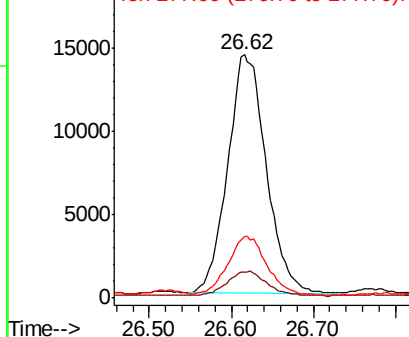
Delta R.T. -0.04 min

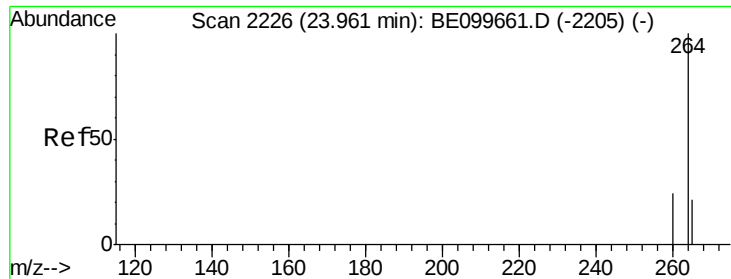
Lab File: BE099733.D

Acq: 23 May 2019 14:31

Tgt Ion:	276	Resp:	46848
Ion Ratio	Lower	Upper	
276	100		
138	10.2	9.6	14.4
277	24.7	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





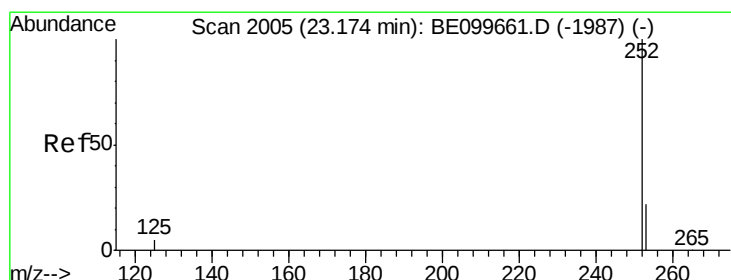
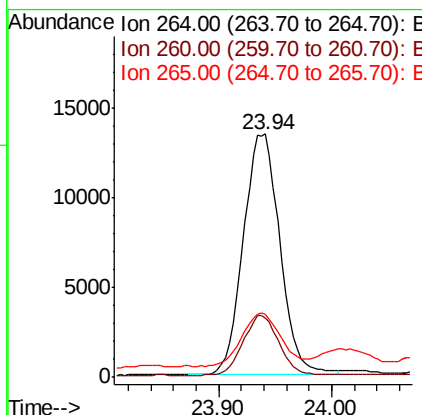
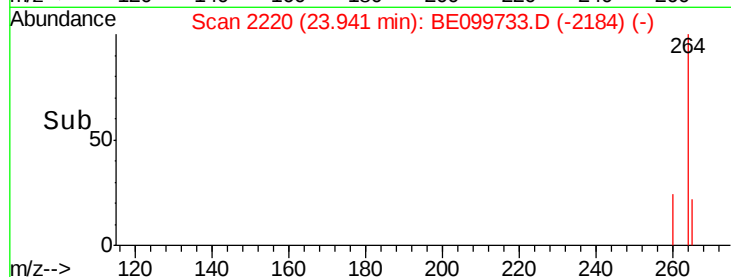
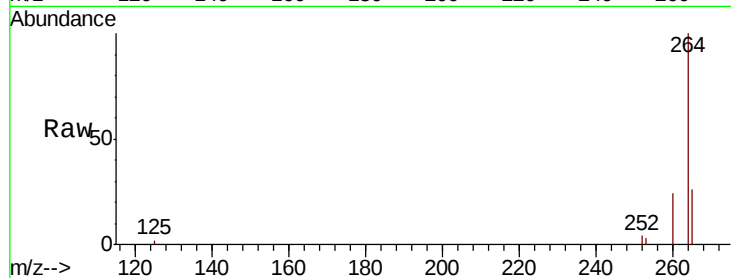
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.94 min Scan# 2220
Delta R.T. -0.02 min
Lab File: BE099733.D
Acq: 23 May 2019 14:31

Instrument :
BNA_E
ClientSampleId :
FESB-13(9.5-10)DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.6	29.4
265	26.0	19.1	28.7

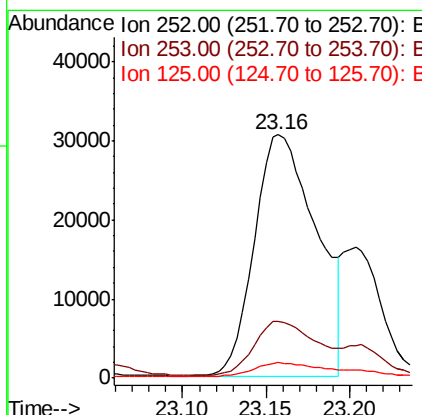
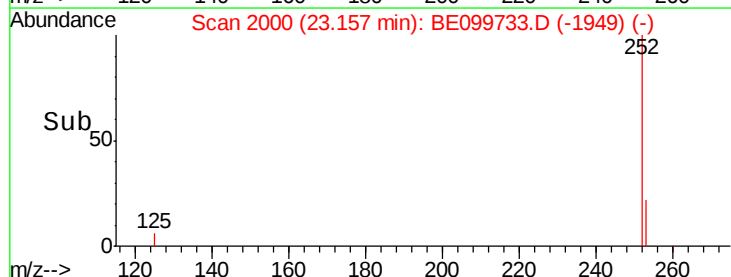
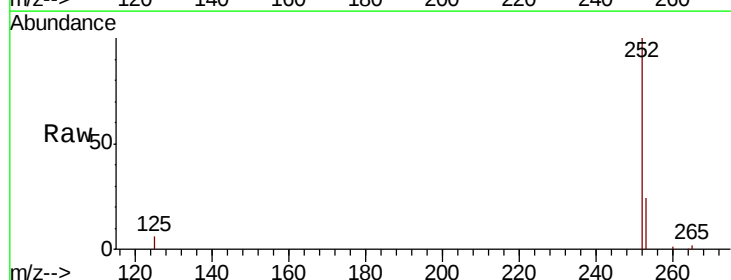
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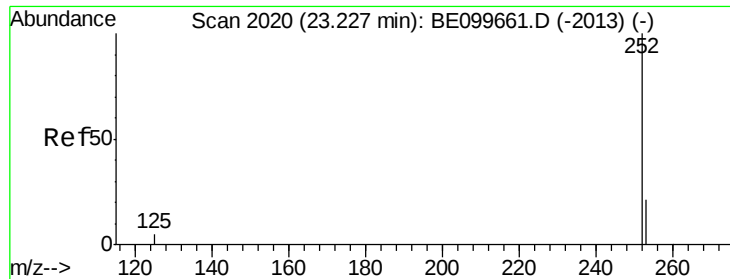
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#35
Benzo(b)fluoranthene
Concen: 0.951 ng
RT: 23.16 min Scan# 2000
Delta R.T. -0.02 min
Lab File: BE099733.D
Acq: 23 May 2019 14:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.2	27.4
125	6.4	4.5	6.7





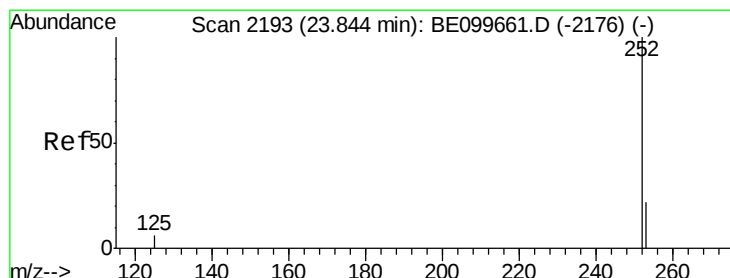
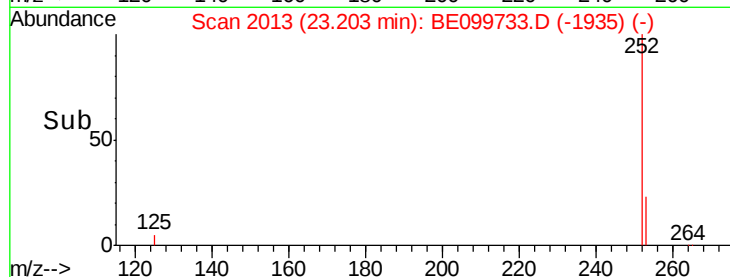
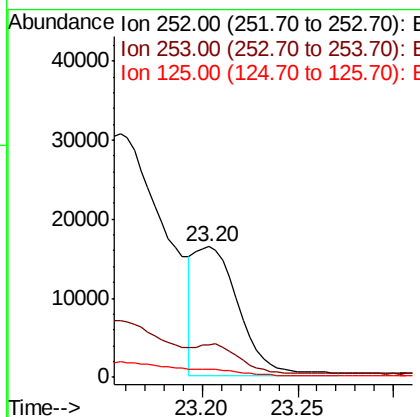
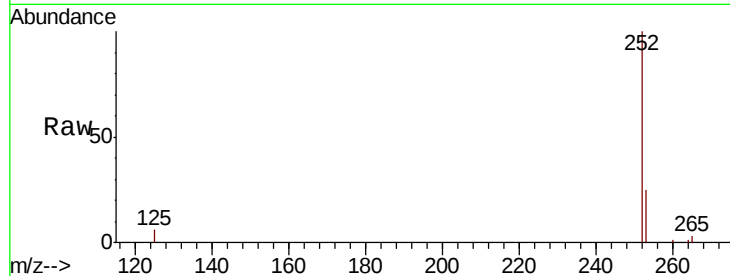
#36
Benzo(k)fluoranthene
Concen: 0.307 ng m
RT: 23.20 min Scan# 2013
Delta R.T. -0.02 min
Lab File: BE099733.D
Acq: 23 May 2019 14:31

Instrument :
BNA_E
ClientSampleId :
FESB-13(9.5-10)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.0	17.8	26.8
125	6.2	4.6	6.8

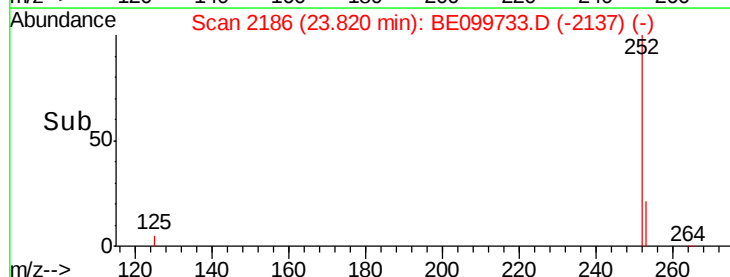
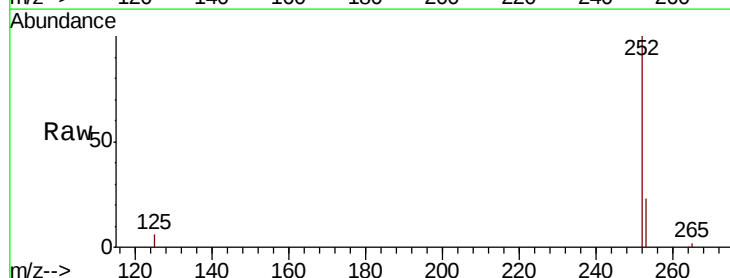
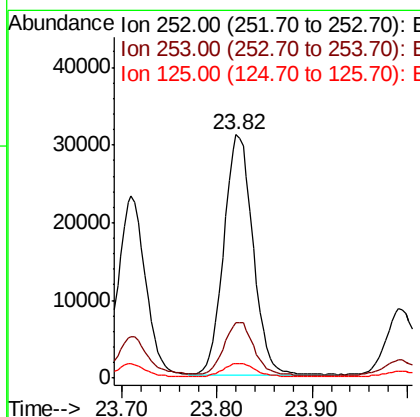
Manual Integrations
APPROVED

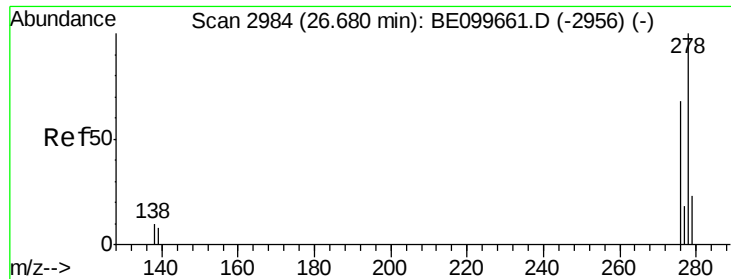
Sohil
5/24/2019 5:02:42 PM



#37
Benzo(a)pyrene
Concen: 0.814 ng
RT: 23.82 min Scan# 2186
Delta R.T. -0.02 min
Lab File: BE099733.D
Acq: 23 May 2019 14:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.9	28.3
125	6.0	5.4	8.0





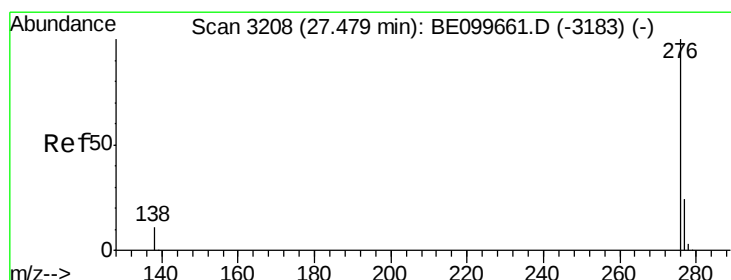
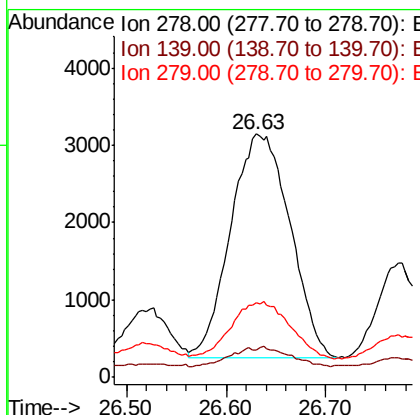
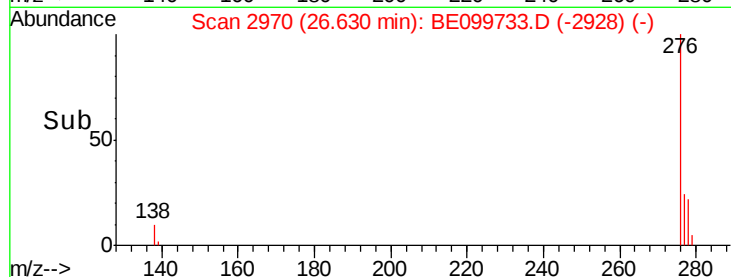
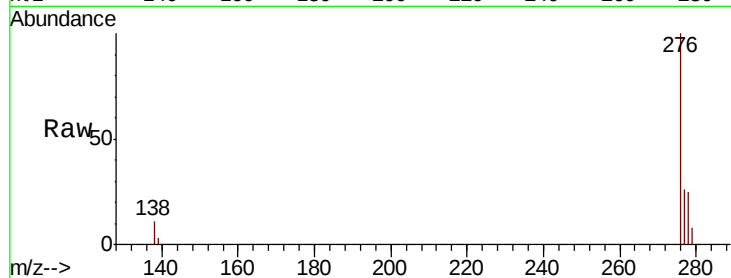
#38
Dibenzo(a,h)anthracene
Concen: 0.143 ng
RT: 26.63 min Scan# 2970
Delta R.T. -0.05 min
Lab File: BE099733.D
Acq: 23 May 2019 14:31

Instrument :
BNA_E
ClientSampleId :
FESB-13(9.5-10)DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	11.4	6.9	10.3#
279	30.5	19.2	28.8#

Manual Integrations
APPROVED

Sohil
5/24/2019 5:02:42 PM



#39
Benzo(g,h,i)perylene
Concen: 0.539 ng
RT: 27.45 min Scan# 3199
Delta R.T. -0.03 min
Lab File: BE099733.D
Acq: 23 May 2019 14:31

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.3	19.8	29.6
138	11.1	9.2	13.8

