

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE050319\
 Data File : BE099543.D
 Acq On : 3 May 2019 23:08
 Operator : JU/SJ
 Sample : K2587-20
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-004-SW068-042319

Manual Integrations
 APPROVED

mohammad
 5/7/2019 11:56:52 PM

Quant Time: May 04 02:27:35 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE042919.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Apr 29 18:36:43 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.81	152	2294	0.40	ng	0.00
7) Naphthalene-d8	10.60	136	9105	0.40	ng	0.00
13) Acenaphthene-d10	14.47	164	7718	0.40	ng	0.01
19) Phenanthrene-d10	17.20	188	20344	0.40	ng	0.01
27) Chrysene-d12	21.39	240	33123	0.40	ng	0.02
34) Perylene-d12	23.91	264	32789	0.40	ng	0.04

System Monitoring Compounds

4) 2-Fluorophenol	5.39	112	2291	0.36	ng	0.00
5) Phenol-d6	6.98	99	3313	0.39	ng	0.00
8) Nitrobenzene-d5	8.96	82	2856	0.33	ng	0.00
11) 2-Methylnaphthalene-d10	12.21	152	5439	0.33	ng	0.01
14) 2,4,6-Tribromophenol	15.94	330	1659	0.34	ng	0.00
15) 2-Fluorobiphenyl	13.09	172	8109	0.28	ng	0.00
25) Fluoranthene-d10	19.24	212	72926	0.27	ng	0.02
29) Terphenyl-d14	19.82	244	22939	0.38	ng	0.00

Target Compounds

						Qvalue
9) Naphthalene	10.65	128	76354	0.770	ng	100
12) 2-Methylnaphthalene	12.28	142	11380	0.660	ng	95
16) Acenaphthylene	14.18	152	295599	7.827	ng	98
17) Acenaphthene	14.53	154	135407	6.278	ng	99
18) Fluorene	15.50	166	308613	9.699	ng	99
23) Phenanthrene	17.25	178	5226185	99.555	ng	94
24) Anthracene	17.34	178	1224734	24.477	ng	98
26) Fluoranthene	19.28	202	10716801	136.290	ng	# 88
28) Pyrene	19.64	202	9765673	113.105	ng	# 81
30) Benzo(a)anthracene	21.37	228	6453518	61.151	ng	# 87
31) Chrysene	21.43	228	5346448	51.770	ng	# 87
32) Bis(2-ethylhexyl)phthalate	21.27	149	16996	0.042	ng	# 98
33) Indeno(1,2,3-cd)pyrene	26.59	276	3148008	25.791	ng	# 94
35) Benzo(b)fluoranthene	23.15	252	7623177	80.628	ng	# 95
36) Benzo(k)fluoranthene	23.19	252	3064895m	33.618	ng	
37) Benzo(a)pyrene	23.81	252	5402668m	60.443	ng	
38) Dibenzo(a,h)anthracene	26.60	278	665247m	7.276	ng	
39) Benzo(g,h,i)perylene	27.42	276	2711550	29.600	ng	# 97

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

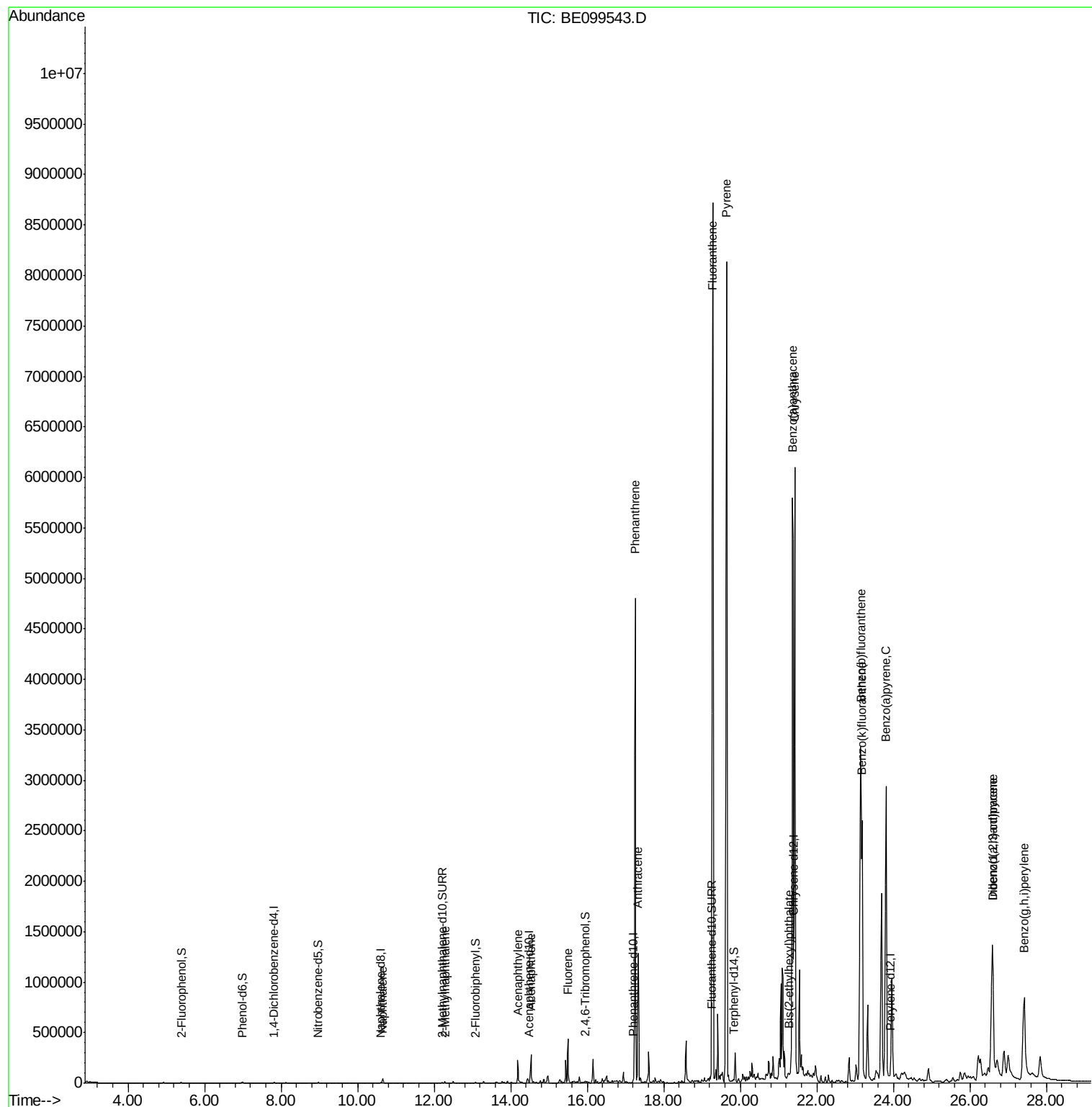
Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE050319\
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ALS Vial : 16 Sample Multiplier: 1

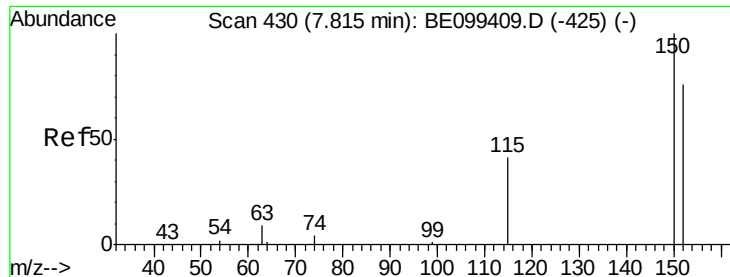
Instrument :
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EXT-004-SW068-042319

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Quant Time: May 04 02:27:35 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE042919.M
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QLast Update : Mon Apr 29 18:36:43 2019
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.81 min Scan# 429

Delta R.T. -0.01 min

Lab File: BE099543.D

Acq: 3 May 2019 23:08

Instrument :

BNA_E

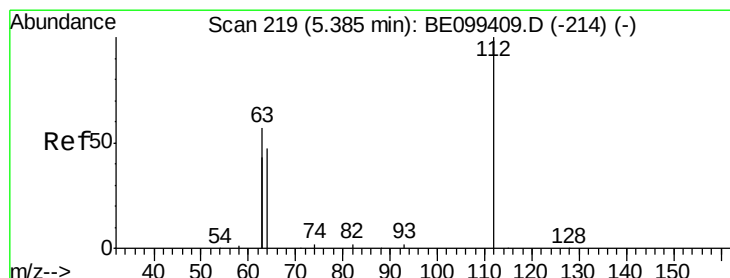
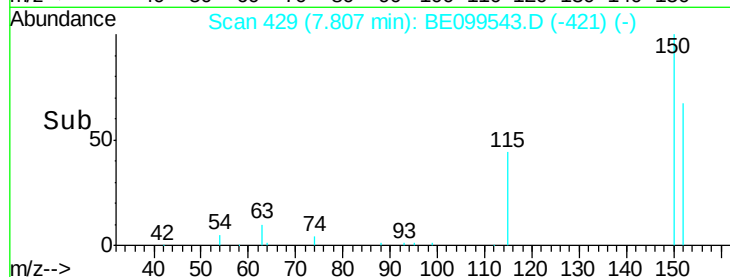
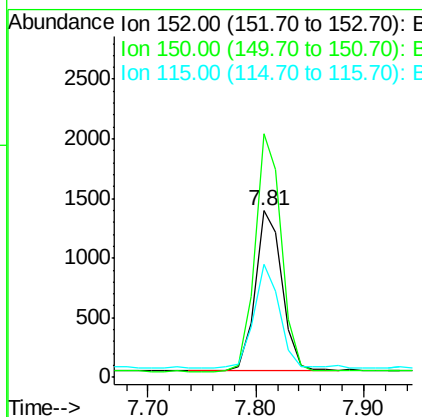
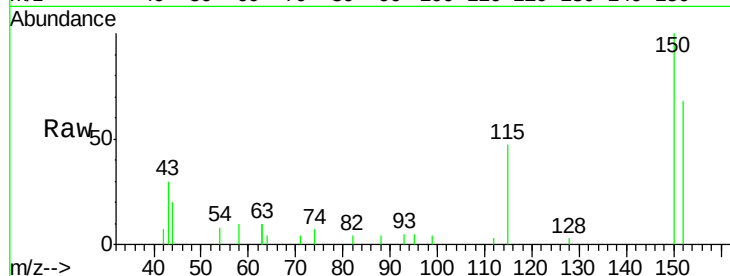
ClientSampleId :

EXT-004-SW068-042319

Tgt Ion:	152	Resp:	2294
Ion Ratio	Lower	Upper	
152	100		
150	146.5	104.8	157.2
115	68.1	46.6	69.8

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#4

2-Fluorophenol

Concen: 0.361 ng

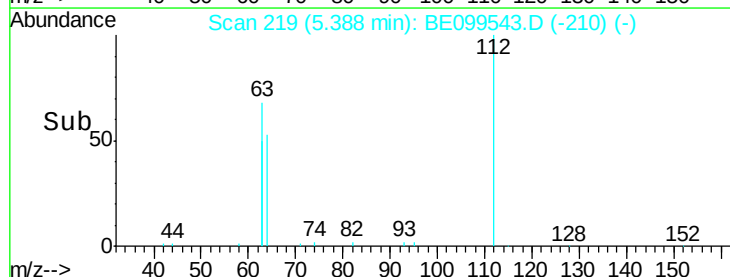
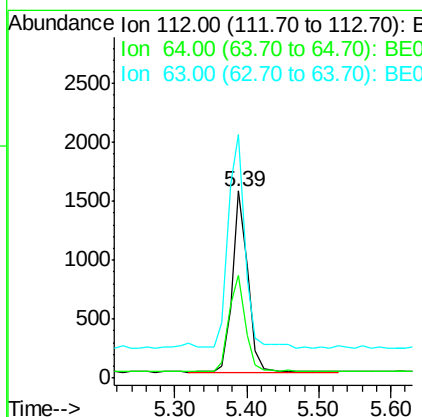
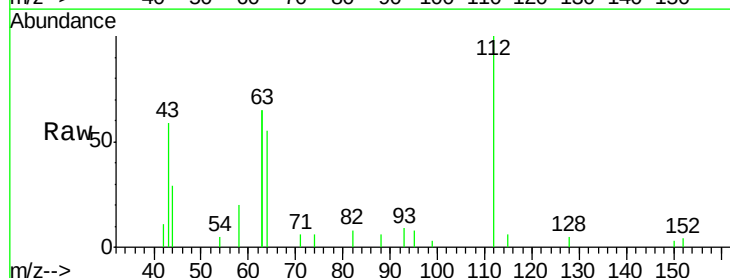
RT: 5.39 min Scan# 219

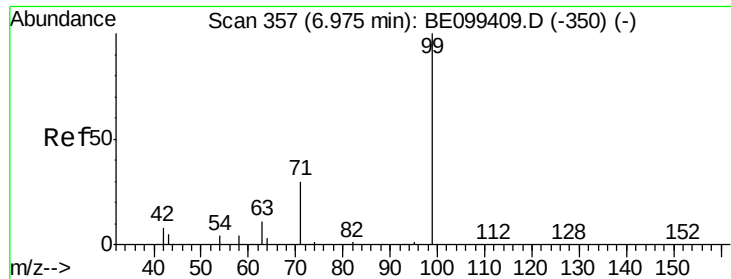
Delta R.T. 0.00 min

Lab File: BE099543.D

Acq: 3 May 2019 23:08

Tgt Ion:	112	Resp:	2291
Ion Ratio	Lower	Upper	
112	100		
64	56.5	47.4	71.0
63	127.3	104.3	156.5





#5

Phenol-d6

Concen: 0.393 ng

RT: 6.98 min Scan# 357

Delta R.T. 0.00 min

Lab File: BE099543.D

Acq: 3 May 2019 23:08

Instrument :

BNA_E

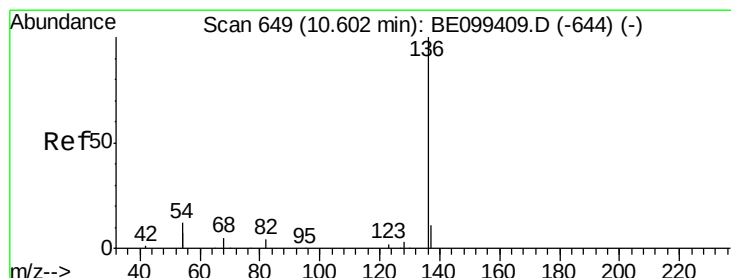
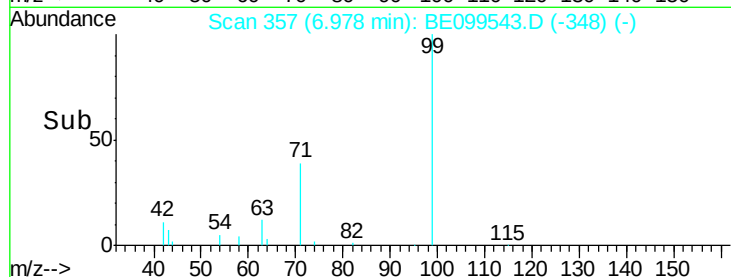
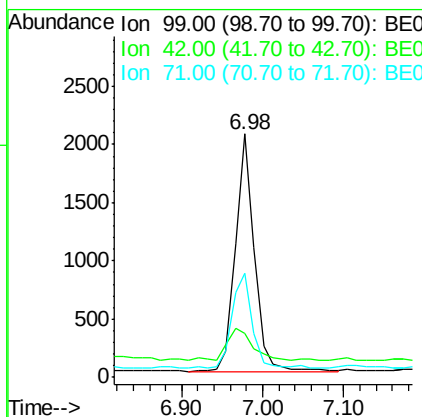
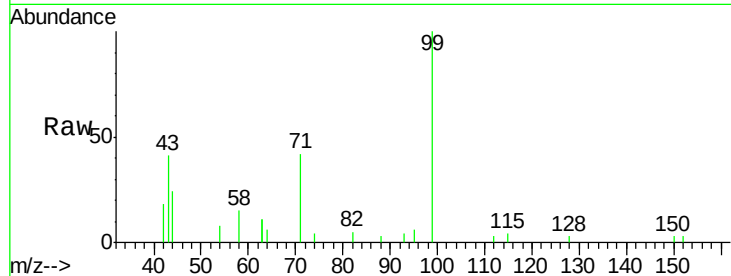
ClientSampleId :

EXT-004-SW068-042319

Tgt Ion:	99	Resp:	3313
Ion	Ratio	Lower	Upper
99	100		
42	17.1	14.9	22.3
71	42.4	33.0	49.6

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#7

Naphthalene-d8

Concen: 0.400 ng

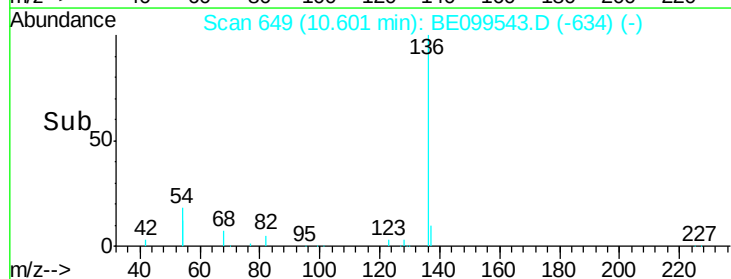
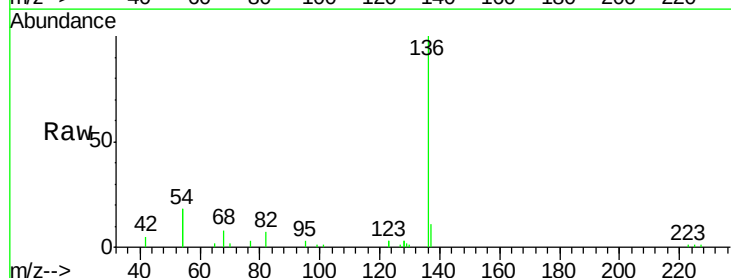
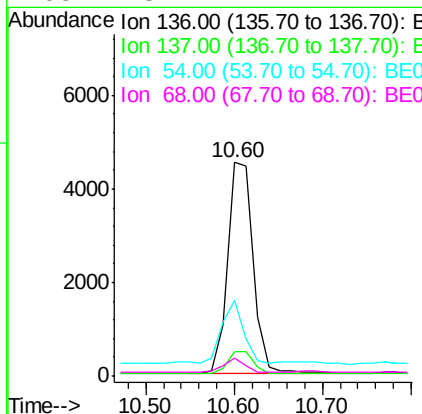
RT: 10.60 min Scan# 649

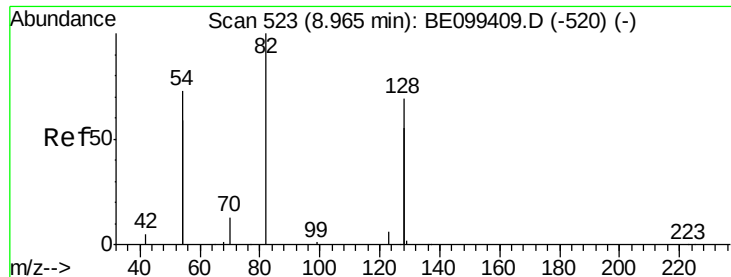
Delta R.T. -0.00 min

Lab File: BE099543.D

Acq: 3 May 2019 23:08

Tgt Ion:	136	Resp:	9105
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.8	14.8
54	35.1	18.5	27.7#
68	8.1	4.7	7.1#





#8

Nitrobenzene-d5

Concen: 0.335 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099543.D

Acq: 3 May 2019 23:08

Instrument :

BNA_E

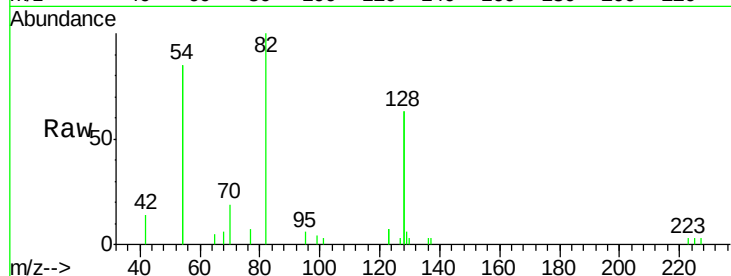
ClientSampleId :

EXT-004-SW068-042319

Tgt Ion:	82	Resp:	2856
Ion Ratio	Lower	Upper	
82	100		
128	126.5	107.0	160.4
54	170.2	113.1	169.7#

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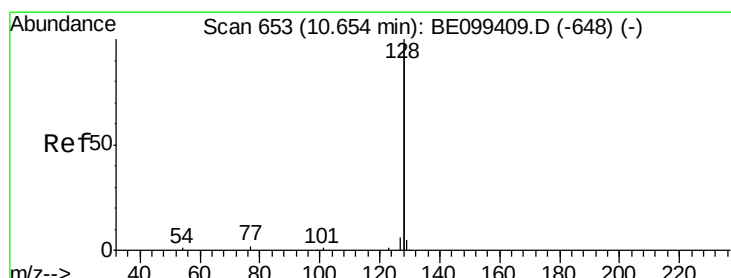
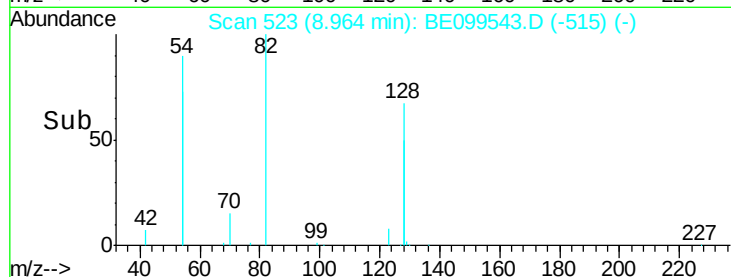
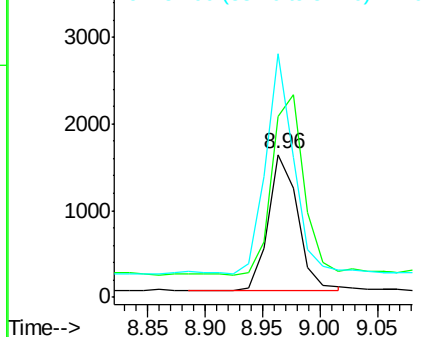
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Abundance Ion 82.00 (81.70 to 82.70): BE099543.D (-515) (-)

Ion 128.00 (127.70 to 128.70): BE099543.D (-515) (-)

Ion 54.00 (53.70 to 54.70): BE099543.D (-515) (-)



#9

Naphthalene

Concen: 0.770 ng

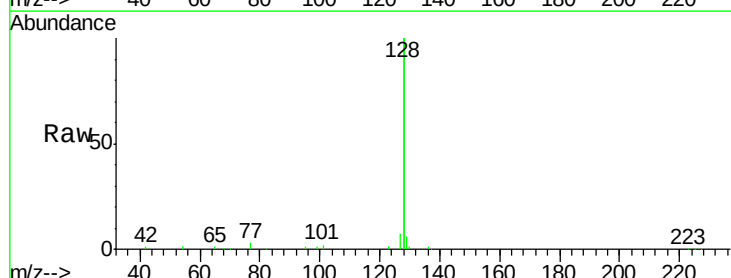
RT: 10.65 min Scan# 653

Delta R.T. -0.00 min

Lab File: BE099543.D

Acq: 3 May 2019 23:08

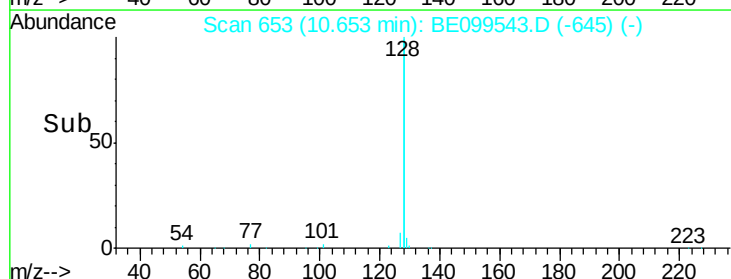
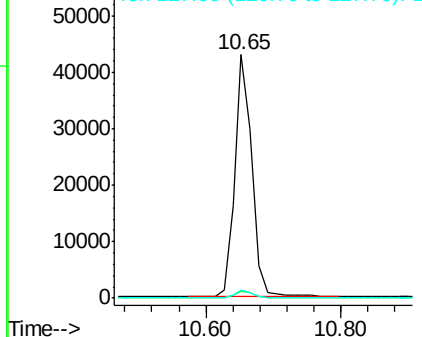
Tgt Ion:	128	Resp:	76354
Ion Ratio	Lower	Upper	
128	100		
129	2.8	2.4	3.6
127	3.4	2.8	4.2

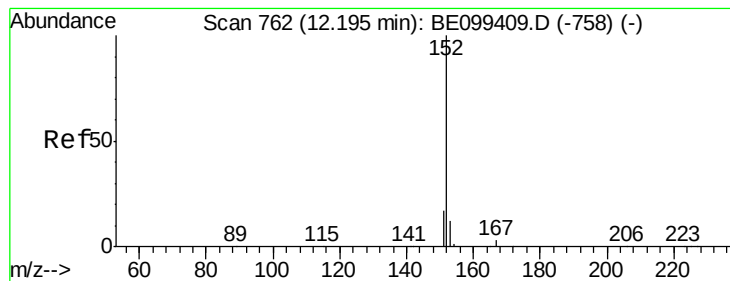


Abundance Ion 128.00 (127.70 to 128.70): BE099543.D (-645) (-)

Ion 129.00 (128.70 to 129.70): BE099543.D (-645) (-)

Ion 127.00 (126.70 to 127.70): BE099543.D (-645) (-)





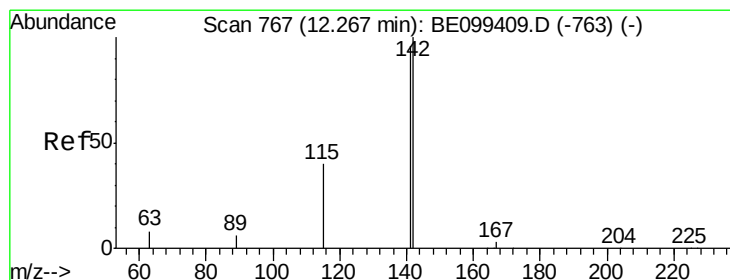
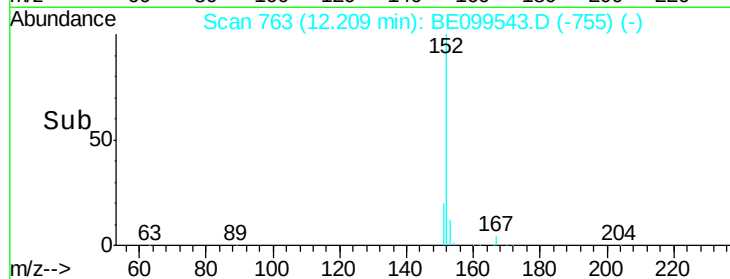
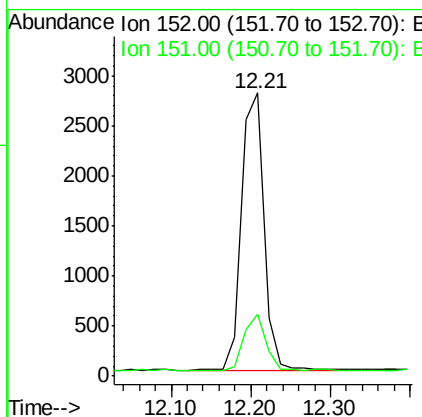
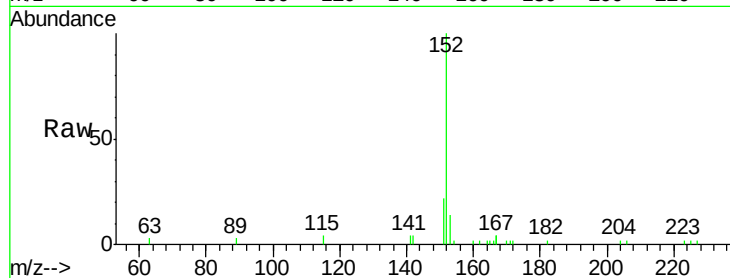
#11
 2-Methylnaphthalene-d10
 Concen: 0.332 ng
 RT: 12.21 min Scan# 763
 Delta R.T. 0.01 min
 Lab File: BE099543.D
 Acq: 3 May 2019 23:08

Instrument :
 BNA_E
 ClientSampleId :
 EXT-004-SW068-042319

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.5	23.3

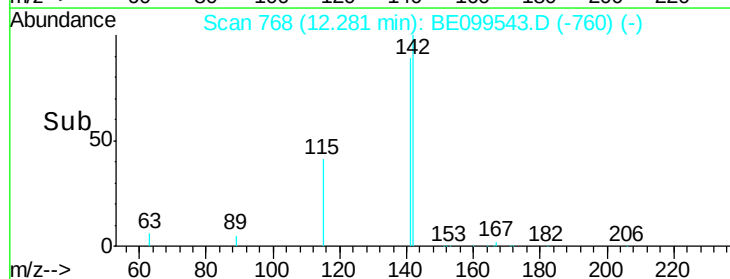
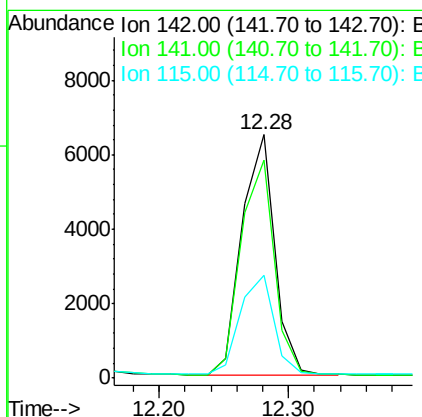
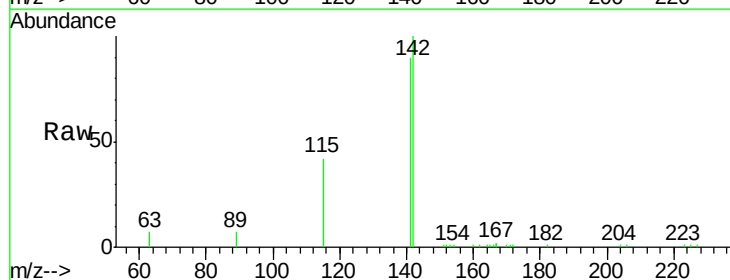
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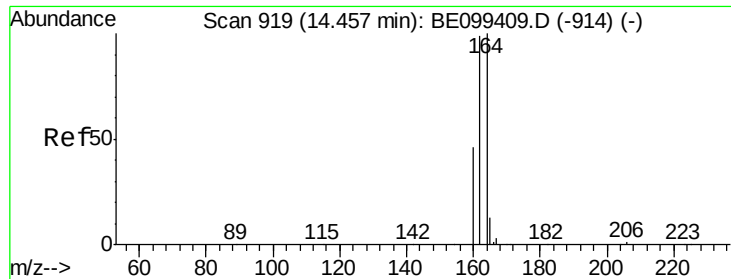
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#12
 2-Methylnaphthalene
 Concen: 0.660 ng
 RT: 12.28 min Scan# 768
 Delta R.T. 0.01 min
 Lab File: BE099543.D
 Acq: 3 May 2019 23:08

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.6	77.0	115.4
115	42.5	33.4	50.0





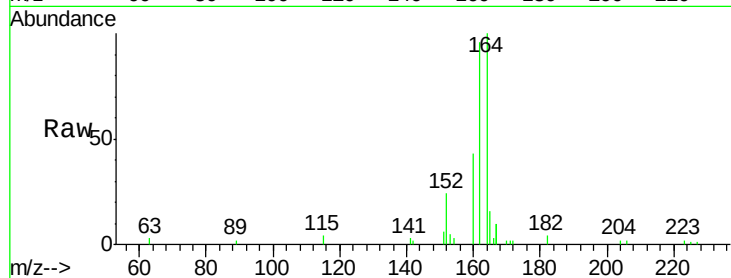
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.47 min Scan# 920
Delta R.T. 0.01 min
Lab File: BE099543.D
Acq: 3 May 2019 23:08

Instrument :
BNA_E
ClientSampleId :
EXT-004-SW068-042319

Tgt Ion	Ratio	Lower	Upper
164	100		
162	95.9	79.0	118.4
160	42.8	37.0	55.4

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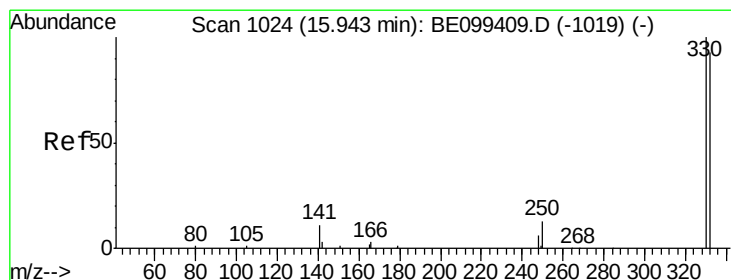
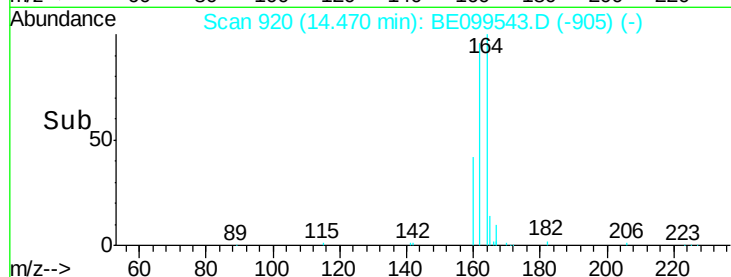
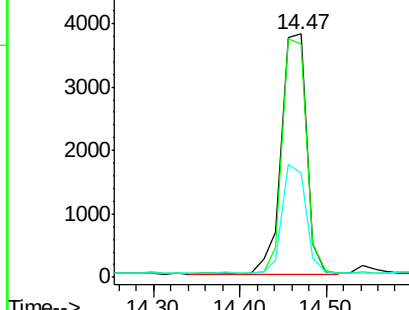


Abundance

Ion 164.00 (163.70 to 164.70): E

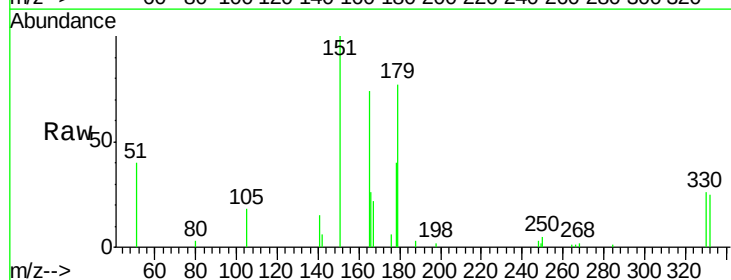
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14
2,4,6-Tribromophenol
Concen: 0.341 ng
RT: 15.94 min Scan# 1024
Delta R.T. 0.00 min
Lab File: BE099543.D
Acq: 3 May 2019 23:08

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.1	71.5	107.3
141	42.0	24.0	36.0

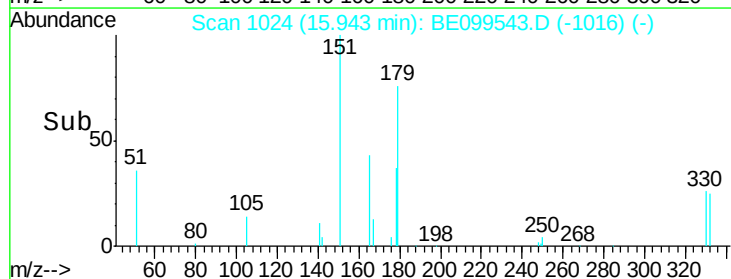
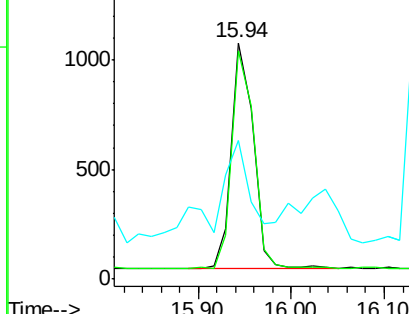


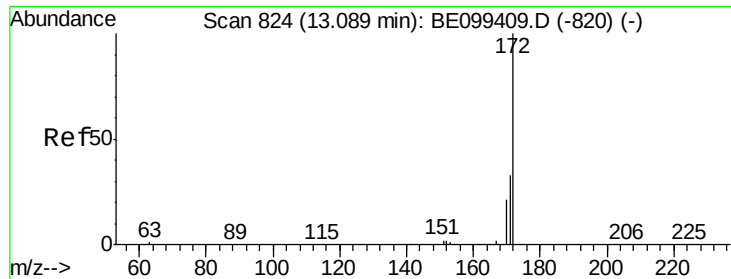
Abundance

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





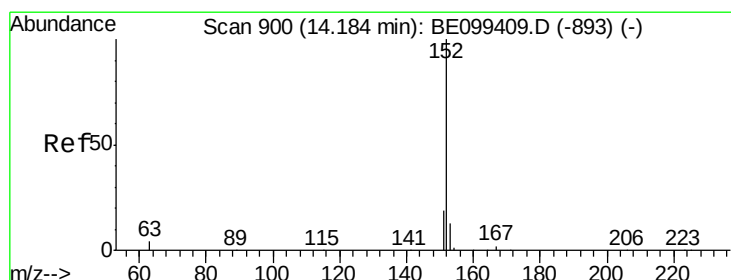
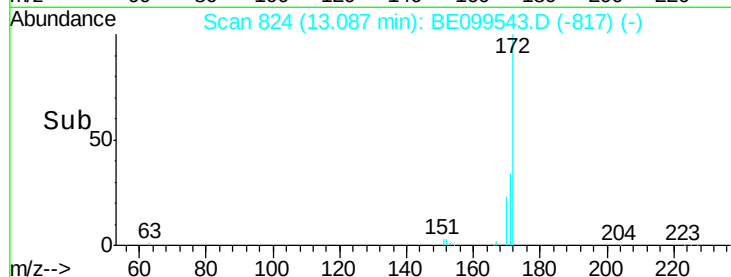
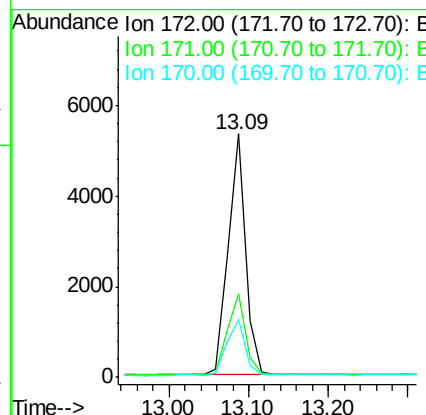
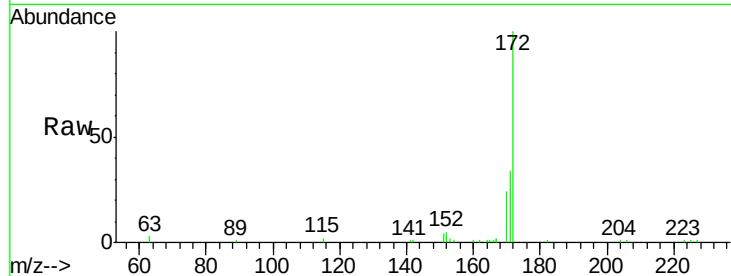
#15
2-Fluorobiphenyl
Concen: 0.275 ng
RT: 13.09 min Scan# 824
Delta R.T. -0.00 min
Lab File: BE099543.D
Acq: 3 May 2019 23:08

Instrument :
BNA_E
ClientSampleId :
EXT-004-SW068-042319

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.2	26.6	39.8
170	23.8	17.0	25.6

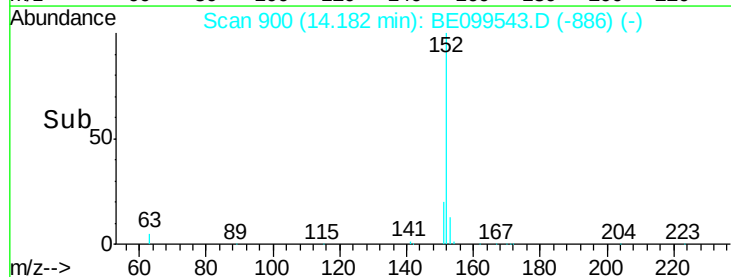
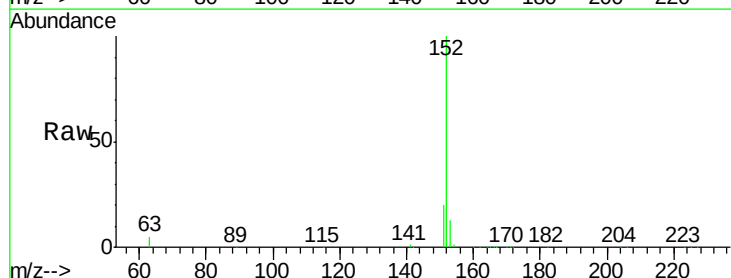
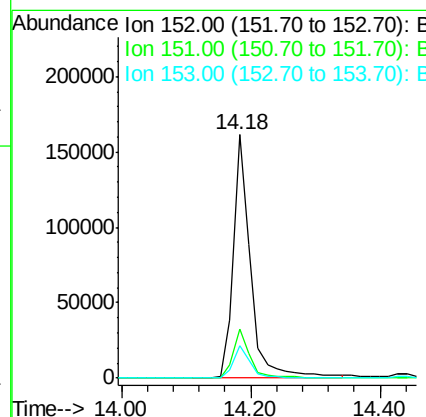
Manual Integrations
APPROVED

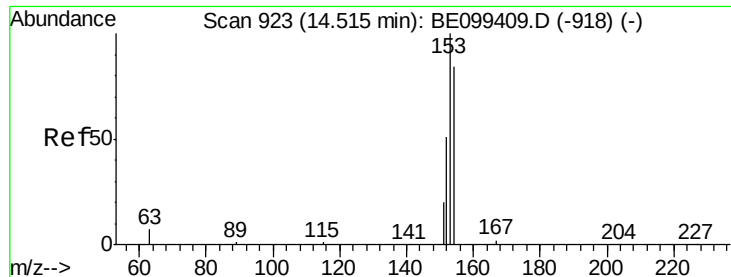
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#16
Acenaphthylene
Concen: 7.827 ng
RT: 14.18 min Scan# 900
Delta R.T. -0.00 min
Lab File: BE099543.D
Acq: 3 May 2019 23:08

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.4	23.2
153	13.3	9.8	14.6





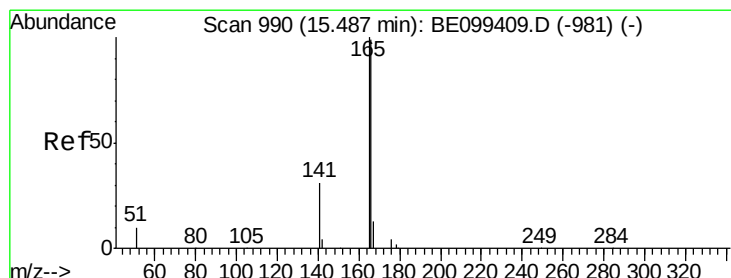
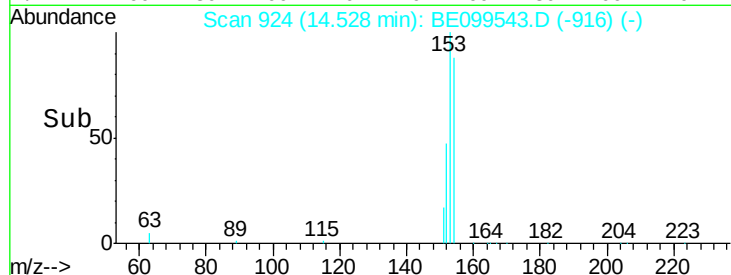
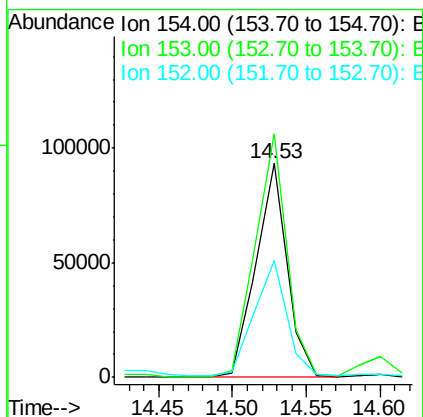
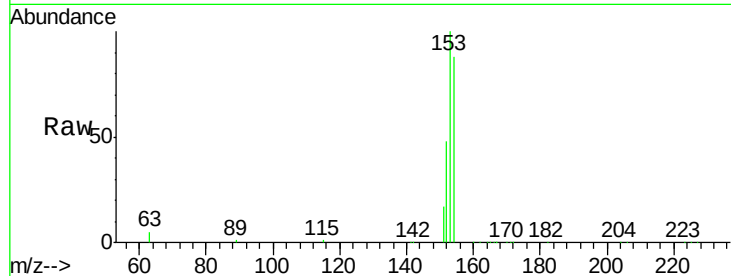
#17
Acenaphthene
Concen: 6.278 ng
RT: 14.53 min Scan# 924
Delta R.T. 0.01 min
Lab File: BE099543.D
Acq: 3 May 2019 23:08

Instrument :
BNA_E
ClientSampleId :
EXT-004-SW068-042319

Tgt Ion	Ratio	Lower	Upper
154	100		
153	115.8	92.6	138.8
152	56.0	45.8	68.8

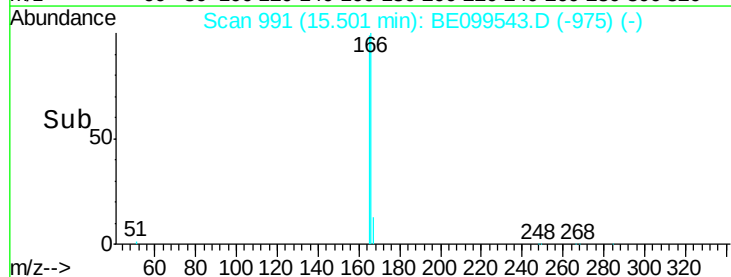
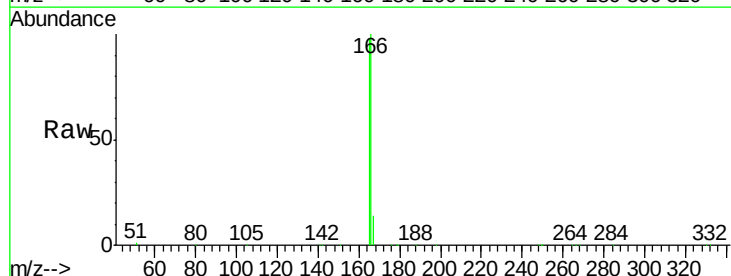
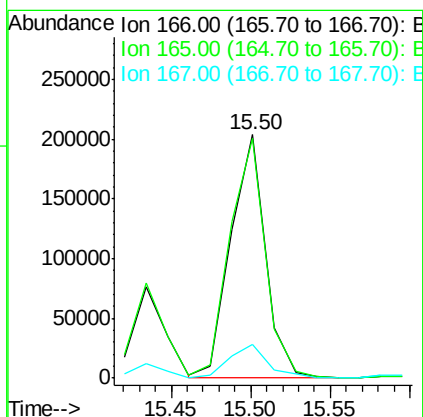
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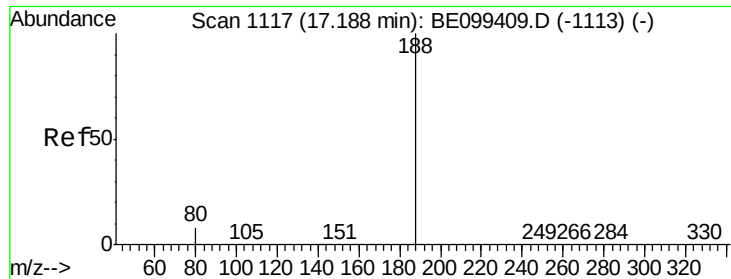
mohammad
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#18
Fluorene
Concen: 9.699 ng
RT: 15.50 min Scan# 991
Delta R.T. 0.01 min
Lab File: BE099543.D
Acq: 3 May 2019 23:08

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.1	80.3	120.5
167	15.5	10.7	16.1





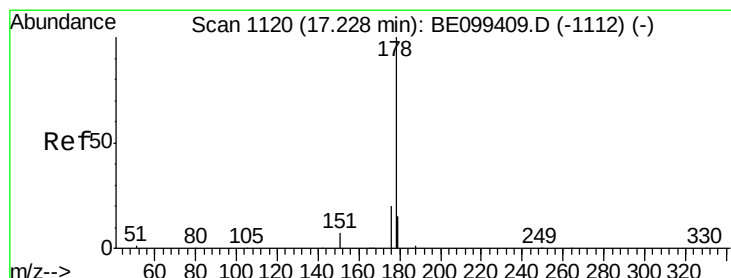
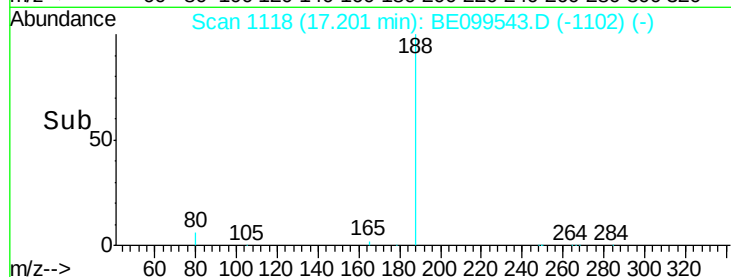
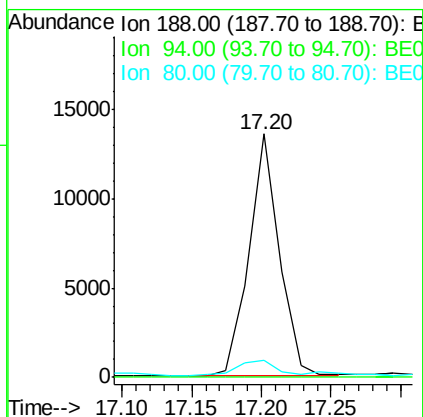
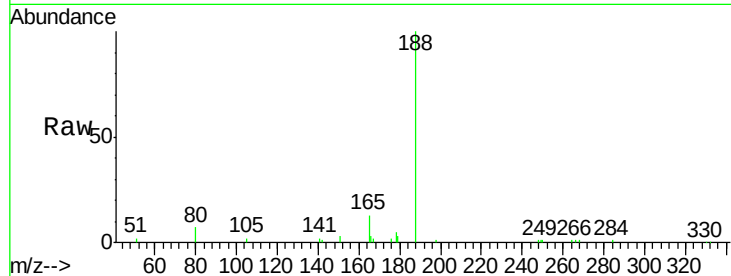
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.20 min Scan# 1118
Delta R.T. 0.01 min
Lab File: BE099543.D
Acq: 3 May 2019 23:08

Instrument :
BNA_E
ClientSampleId :
EXT-004-SW068-042319

Tgt Ion	Ratio	Resp Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.8	6.7	10.1

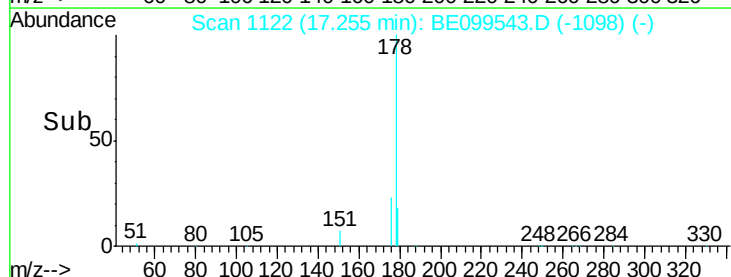
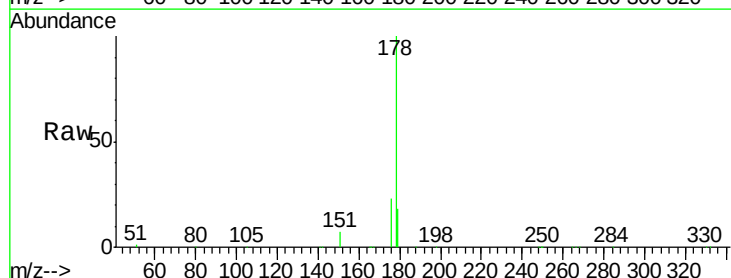
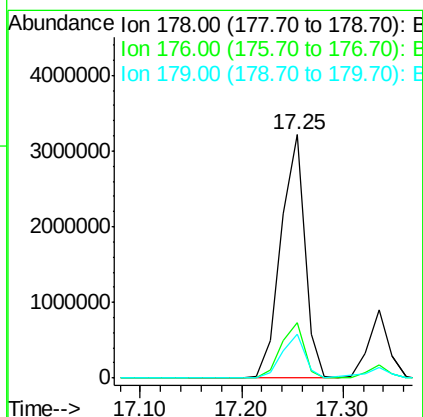
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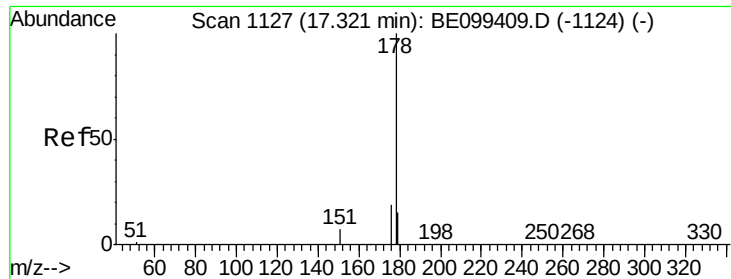
mohammad
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#23
Phenanthrene
Concen: 99.555 ng
RT: 17.25 min Scan# 1122
Delta R.T. 0.03 min
Lab File: BE099543.D
Acq: 3 May 2019 23:08

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	22.2	15.6	23.4
179	17.6	12.0	18.0





#24

Anthracene

Concen: 24.477 ng

RT: 17.34 min Scan# 1128

Delta R.T. 0.01 min

Lab File: BE099543.D

Acq: 3 May 2019 23:08

Instrument :

BNA_E

ClientSampleId :

EXT-004-SW068-042319

Tgt Ion:178 Resp: 1224734

Ion Ratio Lower Upper

178 100

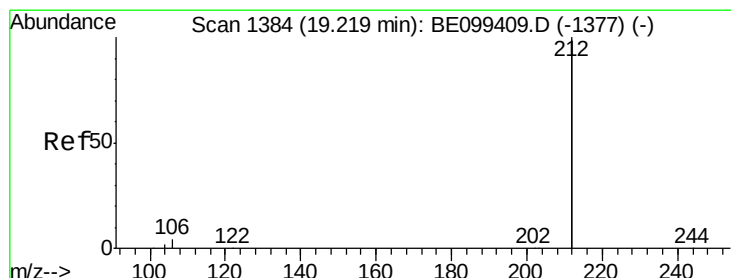
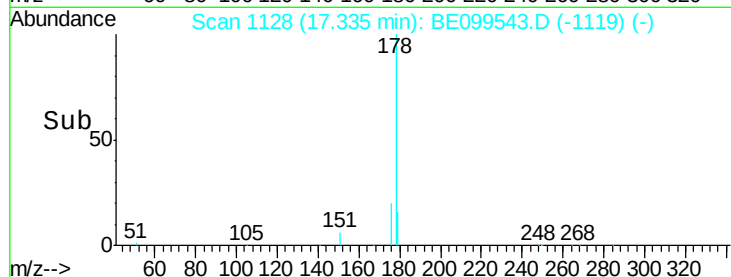
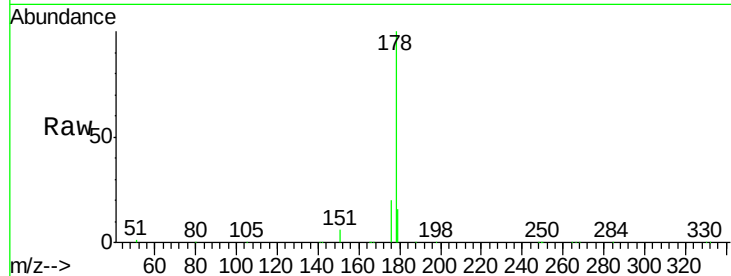
176 19.9 14.9 22.3

179 15.5 11.9 17.9

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#25

Fluoranthene-d10

Concen: 0.266 ng

RT: 19.24 min Scan# 1387

Delta R.T. 0.02 min

Lab File: BE099543.D

Acq: 3 May 2019 23:08

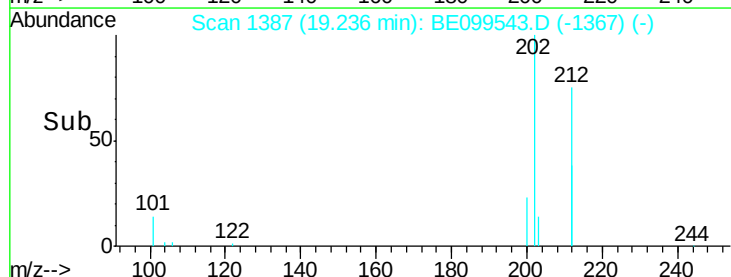
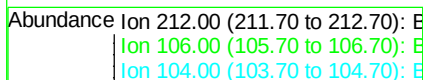
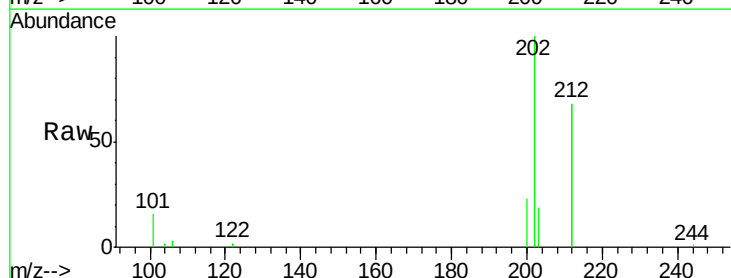
Tgt Ion:212 Resp: 72926

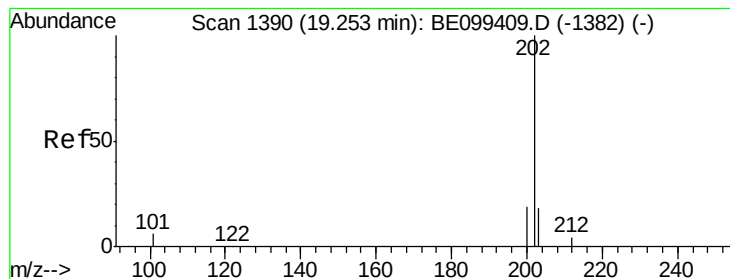
Ion Ratio Lower Upper

212 100

106 2.3 1.5 2.3

104 1.7 0.9 1.3#





#26

Fluoranthene

Concen: 136.290 ng

RT: 19.28 min Scan# 1395

Delta R.T. 0.03 min

Lab File: BE099543.D

Acq: 3 May 2019 23:08

Instrument :

BNA_E

ClientSampleId :

EXT-004-SW068-042319

Tgt Ion:202 Resp:10716801

Ion Ratio Lower Upper

202 100

101 8.9 5.4 8.0#

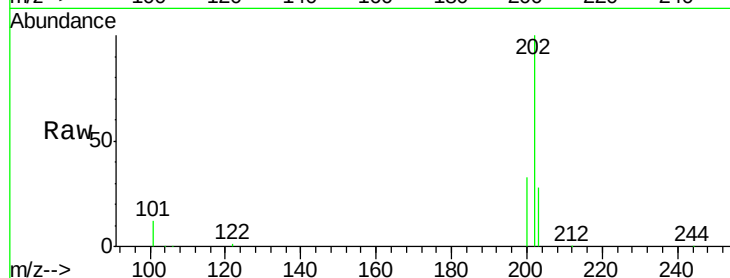
203 23.8 13.9 20.9#

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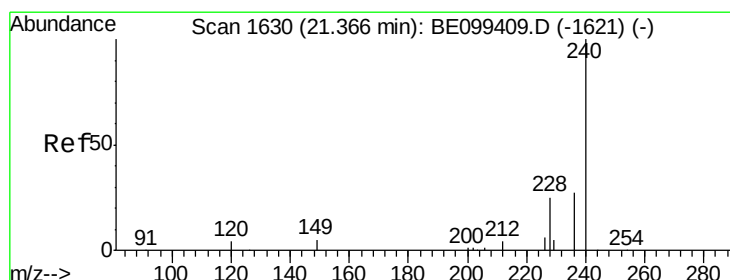
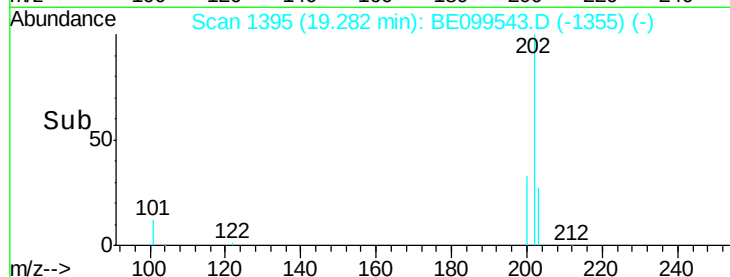
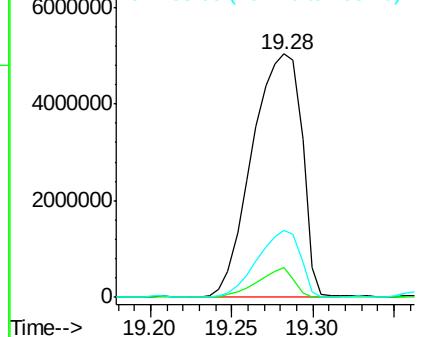
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Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.39 min Scan# 1632

Delta R.T. 0.02 min

Lab File: BE099543.D

Acq: 3 May 2019 23:08

Tgt Ion:240 Resp: 33123

Ion Ratio Lower Upper

240 100

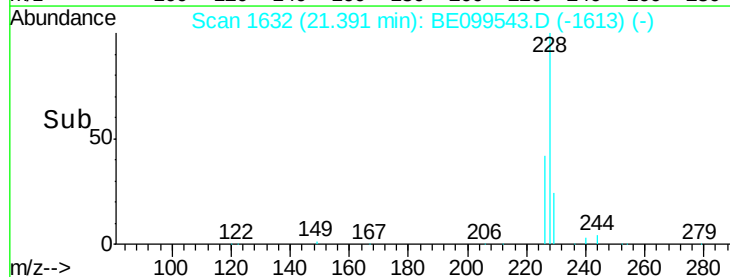
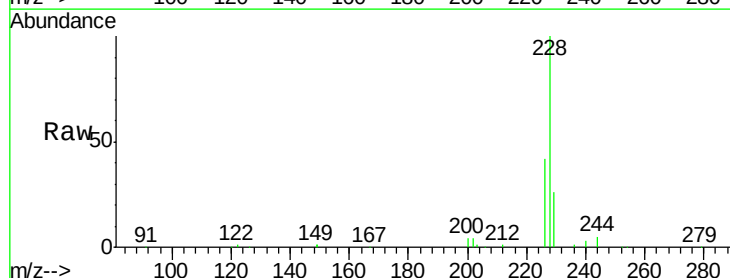
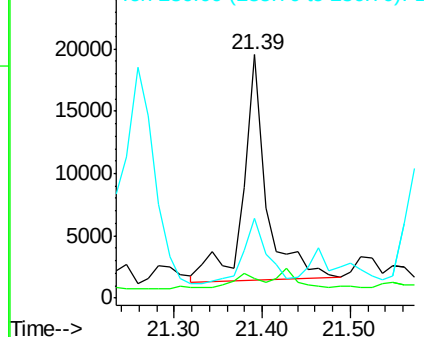
120 8.0 4.0 6.0#

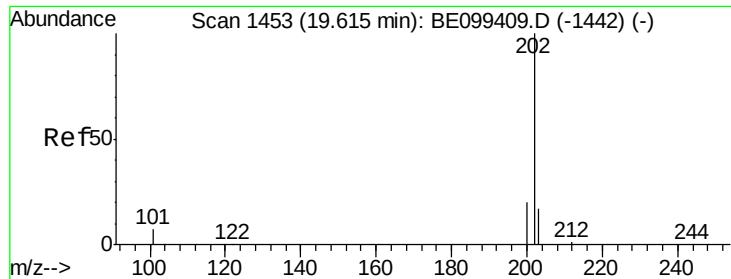
236 32.7 22.0 33.0

Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





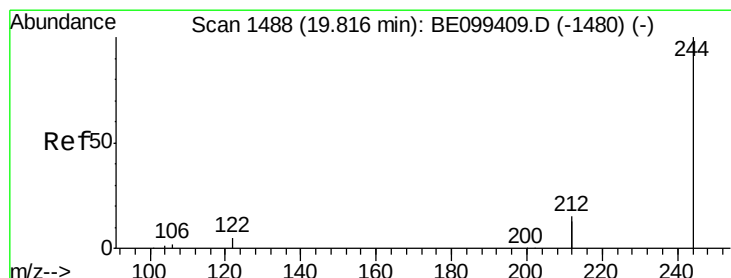
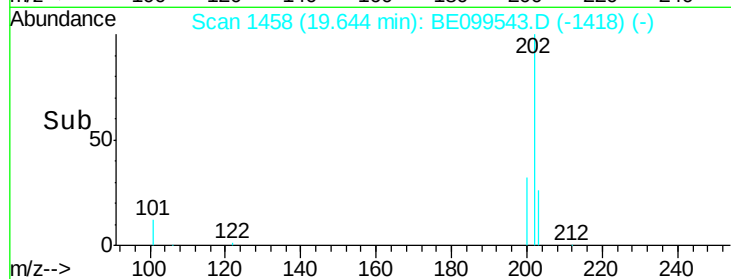
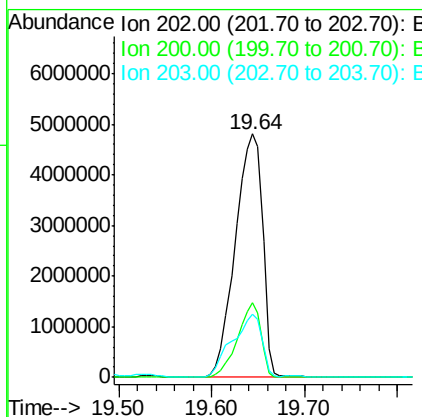
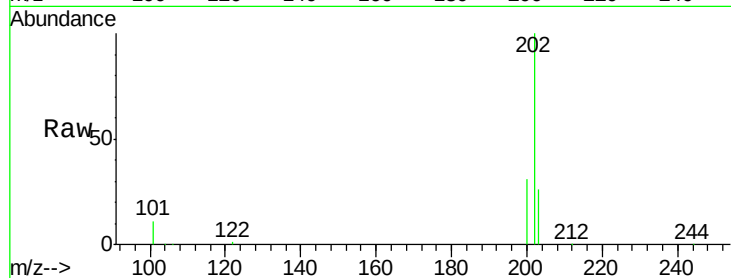
#28
 Pyrene
 Concen: 113.105 ng
 RT: 19.64 min Scan# 1458
 Delta R.T. 0.03 min
 Lab File: BE099543.D
 Acq: 3 May 2019 23:08

Instrument :
 BNA_E
 ClientSampleId :
 EXT-004-SW068-042319

Tgt Ion:202 Resp: 9765673
 Ion Ratio Lower Upper
 202 100
 200 26.3 15.7 23.5#
 203 28.3 13.9 20.9#

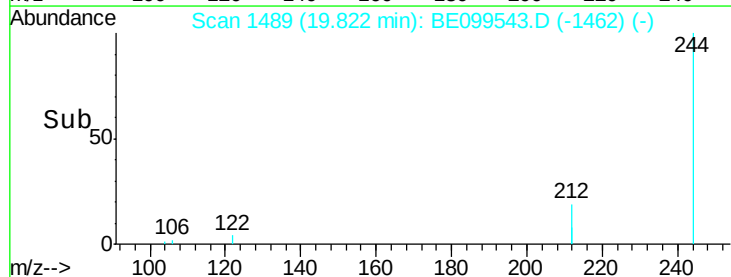
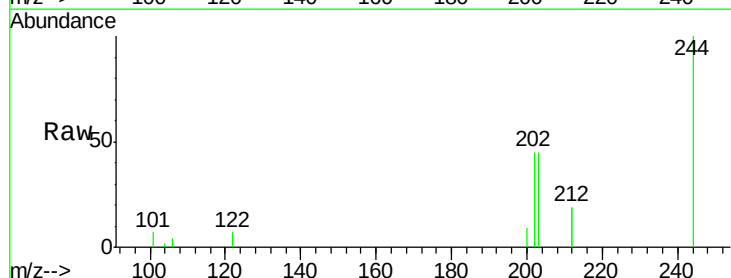
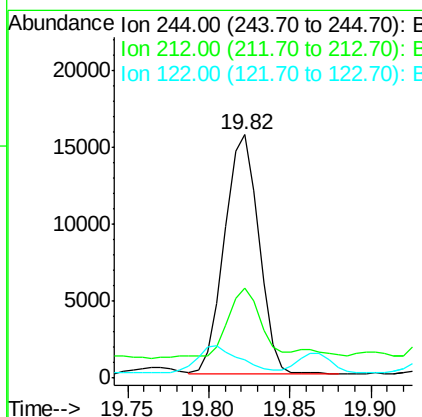
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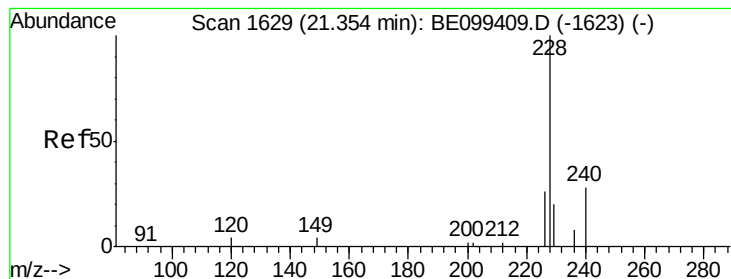
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#29
 Terphenyl-d14
 Concen: 0.378 ng
 RT: 19.82 min Scan# 1489
 Delta R.T. 0.01 min
 Lab File: BE099543.D
 Acq: 3 May 2019 23:08

Tgt Ion:244 Resp: 22939
 Ion Ratio Lower Upper
 244 100
 212 37.2 23.2 34.8#
 122 7.4 4.2 6.4#





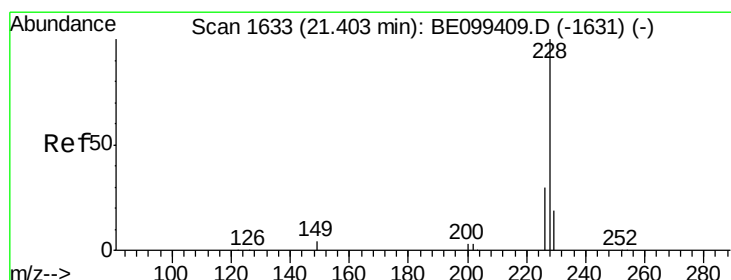
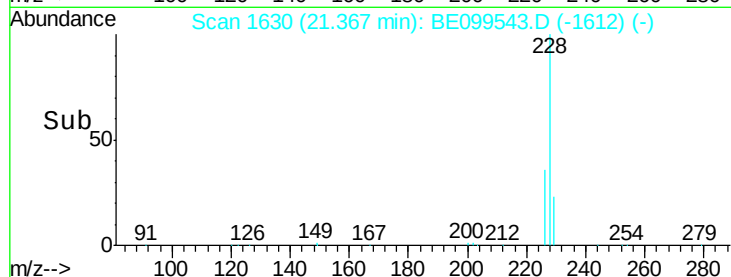
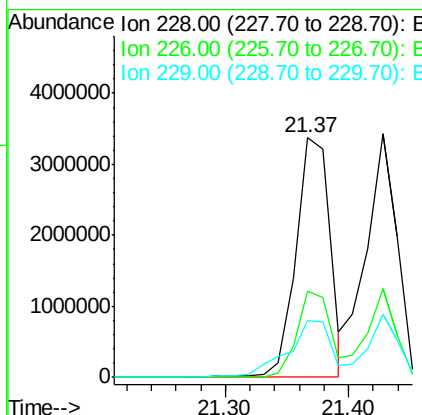
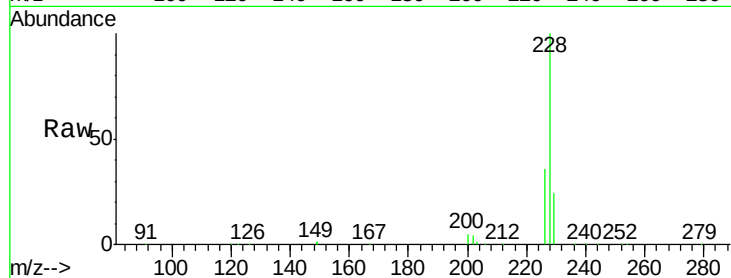
#30
Benzo(a)anthracene
Concen: 61.151 ng
RT: 21.37 min Scan# 1630
Delta R.T. 0.01 min
Lab File: BE099543.D
Acq: 3 May 2019 23:08

Instrument :
BNA_E
ClientSampleId :
EXT-004-SW068-042319

Tgt Ion:228 Resp: 6453518
Ion Ratio Lower Upper
228 100
226 36.0 21.0 31.6#
229 23.7 16.6 25.0

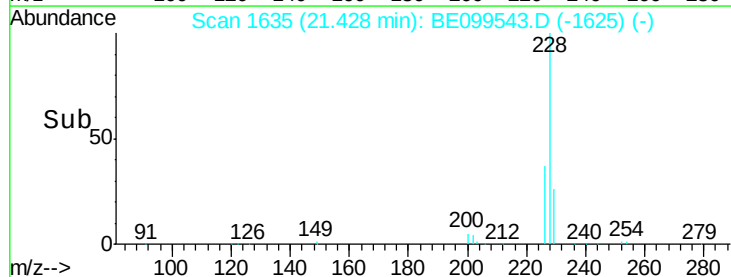
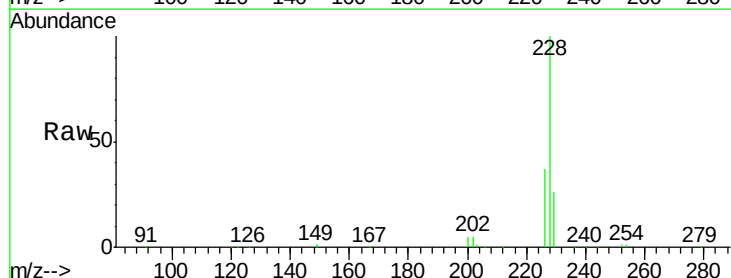
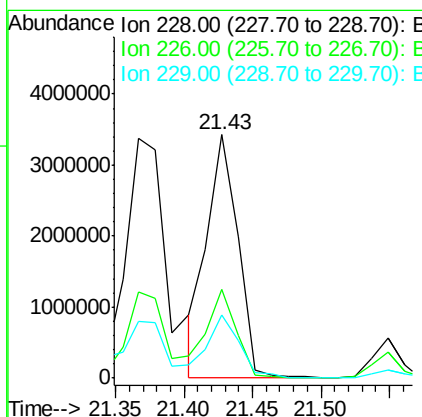
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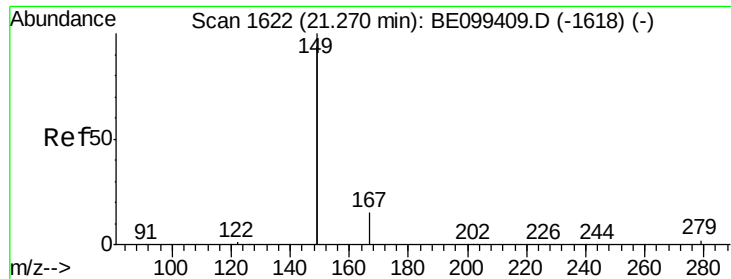
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#31
Chrysene
Concen: 51.770 ng
RT: 21.43 min Scan# 1635
Delta R.T. 0.02 min
Lab File: BE099543.D
Acq: 3 May 2019 23:08

Tgt Ion:228 Resp: 5346448
Ion Ratio Lower Upper
228 100
226 36.6 24.0 36.0#
229 26.1 15.8 23.8#





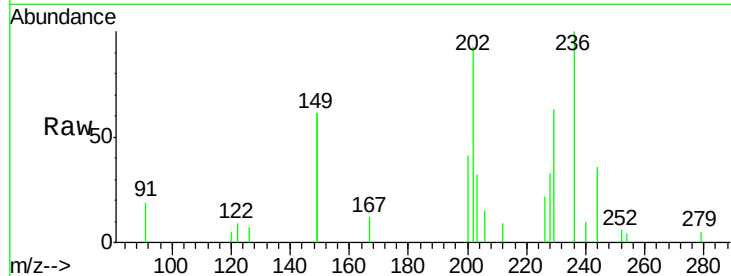
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.042 ng
 RT: 21.27 min Scan# 1622
 Delta R.T. 0.00 min
 Lab File: BE099543.D
 Acq: 3 May 2019 23:08

Instrument :
 BNA_E
 ClientSampleId :
 EXT-004-SW068-042319

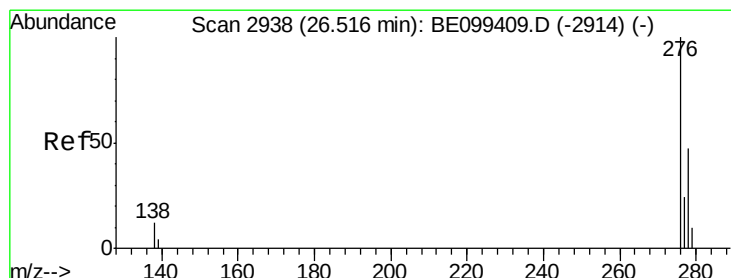
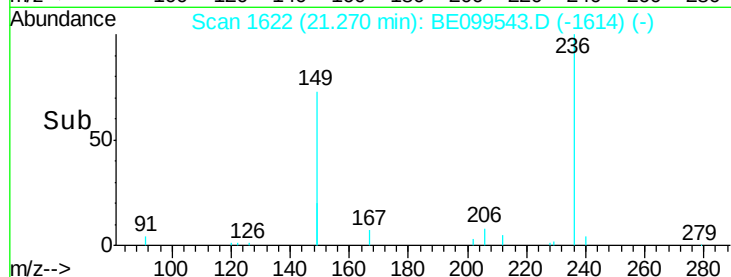
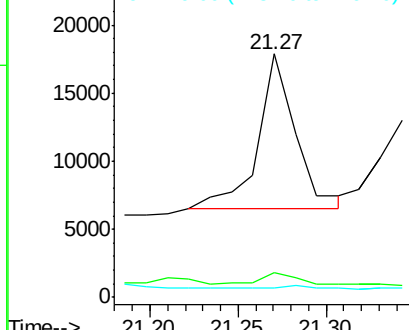
Tgt Ion	Ratio	Resp	Lower	Upper
149	100	16996		
167	6.8	5.8	8.6	
279	2.7	1.0	1.6	

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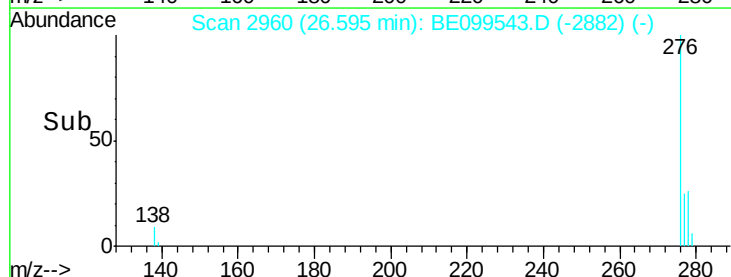
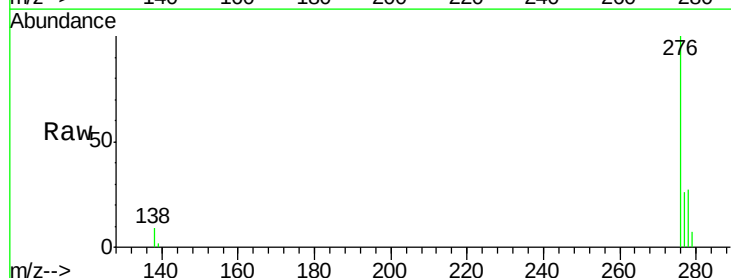
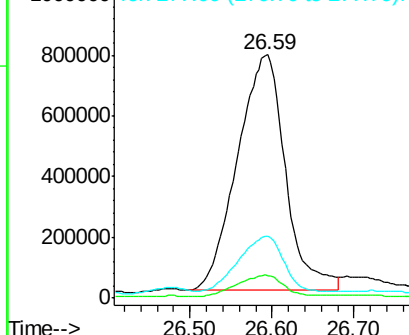
Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 279.00 (278.70 to 279.70): E

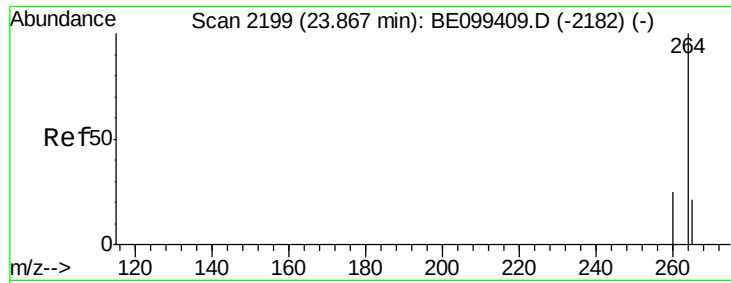


#33
 Indeno(1,2,3-cd)pyrene
 Concen: 25.791 ng
 RT: 26.59 min Scan# 2960
 Delta R.T. 0.08 min
 Lab File: BE099543.D
 Acq: 3 May 2019 23:08

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	3148008		
138	8.6	10.2	15.2	
277	22.4	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





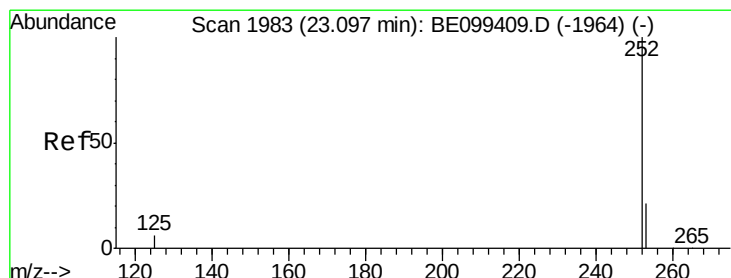
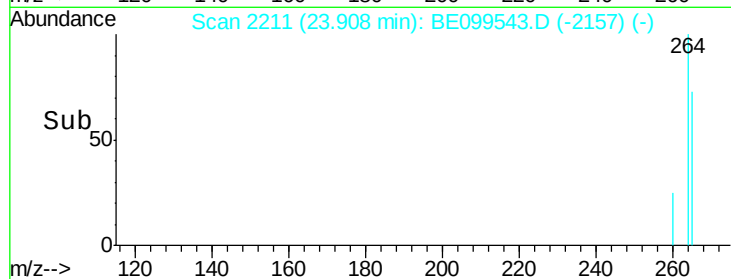
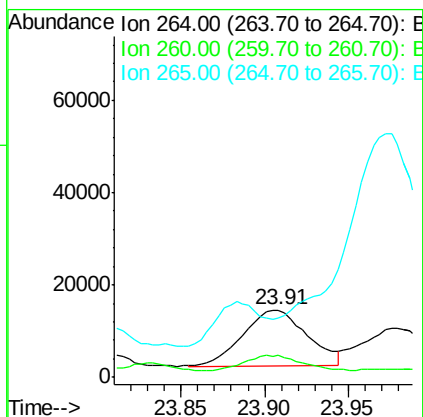
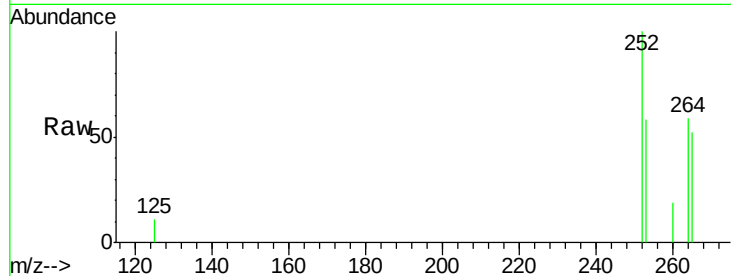
#34
Perylene-d12
 Concen: 0.400 ng
 RT: 23.91 min Scan# 2211
 Delta R.T. 0.04 min
 Lab File: BE099543.D
 Acq: 3 May 2019 23:08

Instrument :
 BNA_E
 ClientSampleId :
 EXT-004-SW068-042319

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	32789		
260	32.1	20.2	30.2	#
265	88.4	21.3	31.9	#

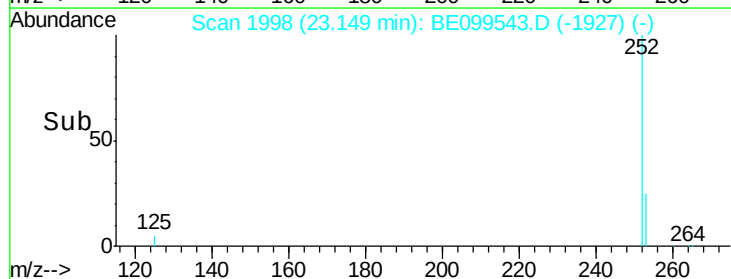
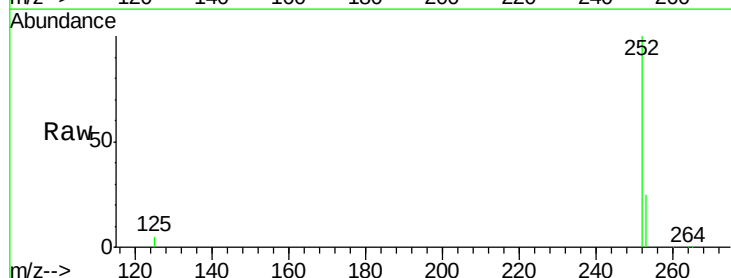
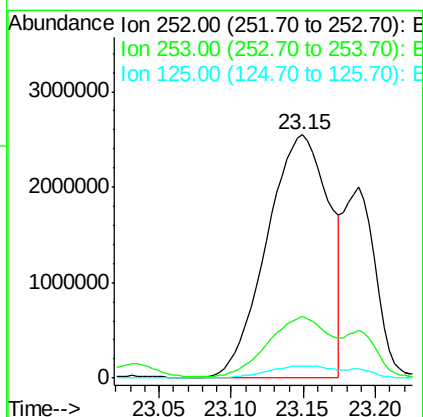
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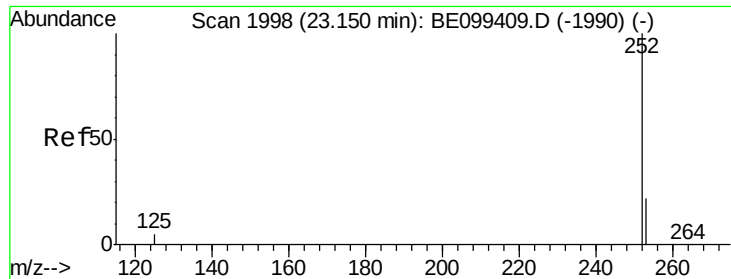
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#35
Benzo(b)fluoranthene
 Concen: 80.628 ng
 RT: 23.15 min Scan# 1998
 Delta R.T. 0.05 min
 Lab File: BE099543.D
 Acq: 3 May 2019 23:08

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	7623177		
253	25.2	18.1	27.1	
125	5.2	5.6	8.4	#





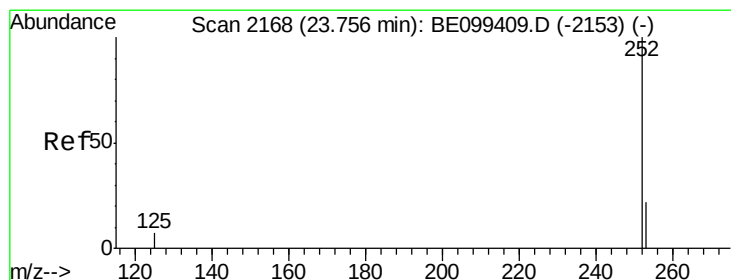
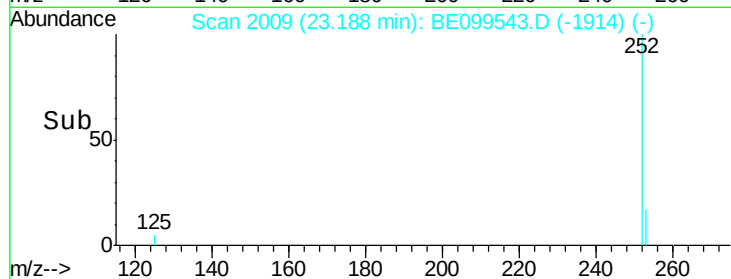
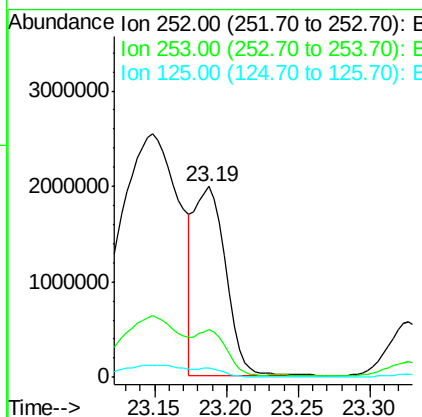
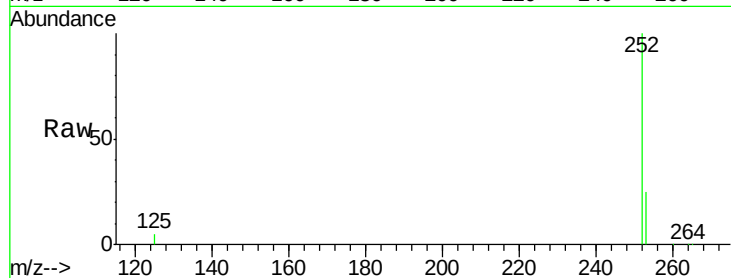
#36
Benzo(k)fluoranthene
Concen: 33.618 ng m
RT: 23.19 min Scan# 2009
Delta R.T. 0.04 min
Lab File: BE099543.D
Acq: 3 May 2019 23:08

Instrument :
BNA_E
ClientSampleId :
EXT-004-SW068-042319

Tgt Ion:252 Resp: 3064895
Ion Ratio Lower Upper
252 100
253 25.3 18.4 27.6
125 4.7 5.0 7.4#

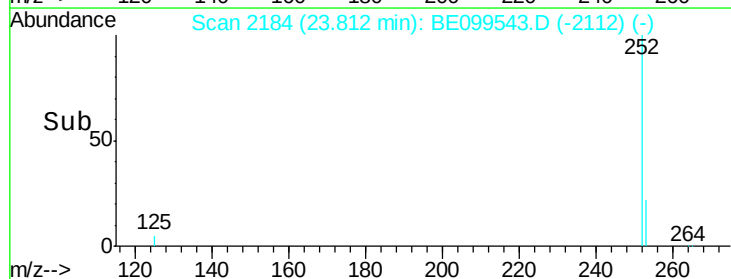
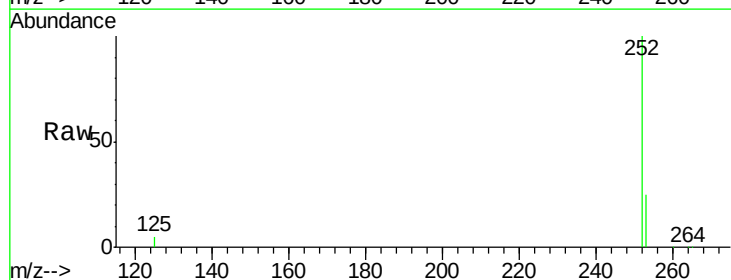
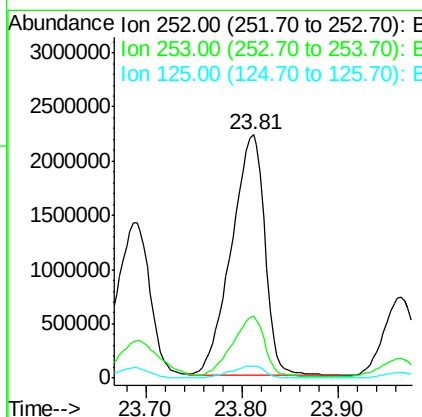
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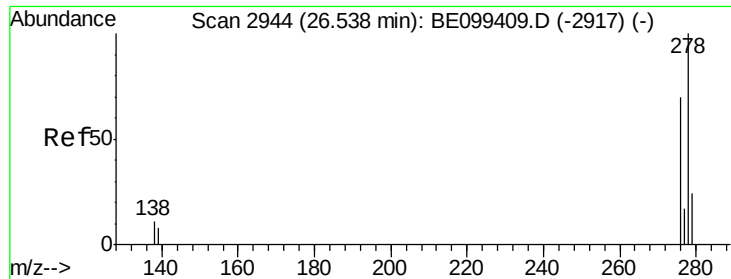
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#37
Benzo(a)pyrene
Concen: 60.443 ng m
RT: 23.81 min Scan# 2184
Delta R.T. 0.06 min
Lab File: BE099543.D
Acq: 3 May 2019 23:08

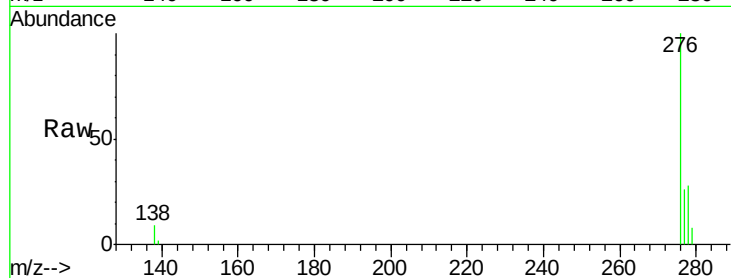
Tgt Ion:252 Resp: 5402668
Ion Ratio Lower Upper
252 100
253 25.2 18.9 28.3
125 5.2 6.7 10.1#





#38
Dibenzo(a,h)anthracene
Concen: 7.276 ng m
RT: 26.60 min Scan# 2961
Delta R.T. 0.06 min
Lab File: BE099543.D
Acq: 3 May 2019 23:08

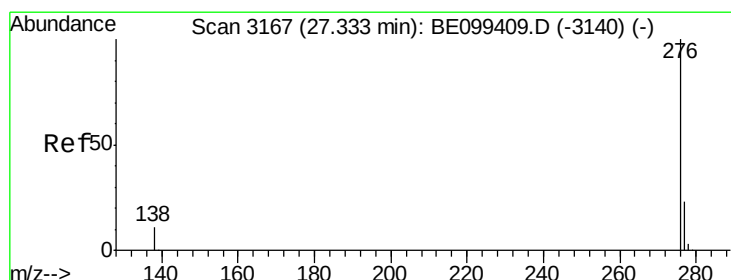
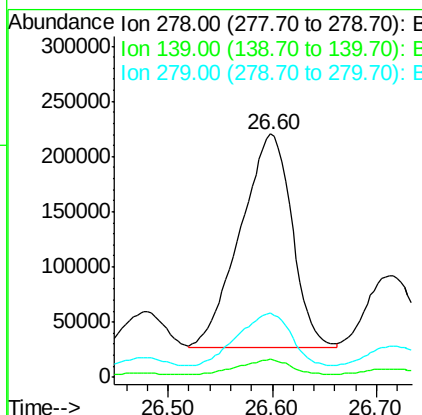
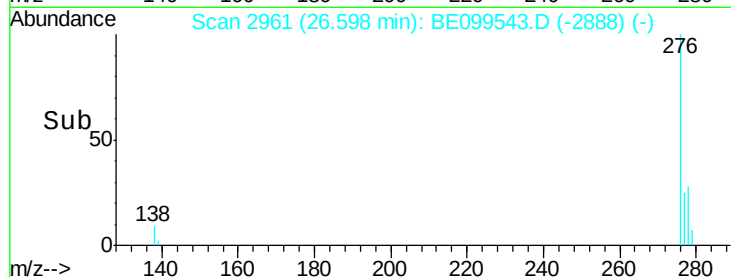
Instrument :
BNA_E
ClientSampleId :
EXT-004-SW068-042319



Tgt Ion:278 Resp: 665247
Ion Ratio Lower Upper
278 100
139 7.3 7.7 11.5#
279 26.6 20.2 30.2

Manual Integrations
APPROVED

mohammad
5/7/2019 11:56:52 PM



#39
Benzo(g,h,i)perylene
Concen: 29.600 ng
RT: 27.42 min Scan# 3191
Delta R.T. 0.09 min
Lab File: BE099543.D
Acq: 3 May 2019 23:08

Tgt Ion:276 Resp: 2711550
Ion Ratio Lower Upper
276 100
277 25.0 19.5 29.3
138 9.5 9.6 14.4#

