

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE050119\
 Data File : BE099489.D
 Acq On : 2 May 2019 6:59
 Operator : JU/SJ
 Sample : K2569-09
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-004-SW019-042319

Manual Integrations
 APPROVED

Sohil
 5/2/2019 4:48:28 PM

Quant Time: May 02 09:00:12 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	7.80	152	2459	0.40	ng	-0.01
7) Naphthalene-d8	10.60	136	9741	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	7642	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	23472	0.40	ng	0.00
27) Chrysene-d12	21.36	240	28775	0.40	ng	0.00
34) Perylene-d12	23.87	264	32868	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.39	112	2131	0.31	ng	0.00
5) Phenol-d6	6.98	99	3220	0.36	ng	0.00
8) Nitrobenzene-d5	8.96	82	2587	0.28	ng	0.00
11) 2-Methylnaphthalene-d10	12.19	152	3887	0.22	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	1284	0.27	ng	0.00
15) 2-Fluorobiphenyl	13.07	172	5408	0.19	ng	-0.02
25) Fluoranthene-d10	19.22	212	43992	0.14	ng	0.00
29) Terphenyl-d14	19.81	244	9230	0.18	ng	0.00

Target Compounds				Qvalue		
9) Naphthalene	10.65	128	11675	0.110	ng	99
12) 2-Methylnaphthalene	12.27	142	2641	0.143	ng	96
16) Acenaphthylene	14.18	152	2255	0.060	ng	# 90
17) Acenaphthene	14.51	154	1524	0.071	ng	93
18) Fluorene	15.49	166	3625	0.115	ng	# 94
23) Phenanthrene	17.23	178	186466	3.079	ng	99
24) Anthracene	17.32	178	22733	0.394	ng	# 90
26) Fluoranthene	19.25	202	776492	8.559	ng	99
28) Pyrene	19.61	202	644336	8.590	ng	# 94
30) Benzo(a)anthracene	21.35	228	382275	4.170	ng	98
31) Chrysene	21.40	228	462657	5.157	ng	97
32) Bis(2-ethylhexyl)phthalate	21.27	149	61621	0.405	ng	99
33) Indeno(1,2,3-cd)pyrene	26.51	276	292440	2.758	ng	# 97
35) Benzo(b)fluoranthene	23.10	252	583557	6.157	ng	# 98
36) Benzo(k)fluoranthene	23.15	252	211997m	2.320	ng	
37) Benzo(a)pyrene	23.75	252	368380m	4.111	ng	
38) Dibenzo(a,h)anthracene	26.53	278	69687	0.760	ng	97
39) Benzo(g,h,i)perylene	27.33	276	279643	3.045	ng	99

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

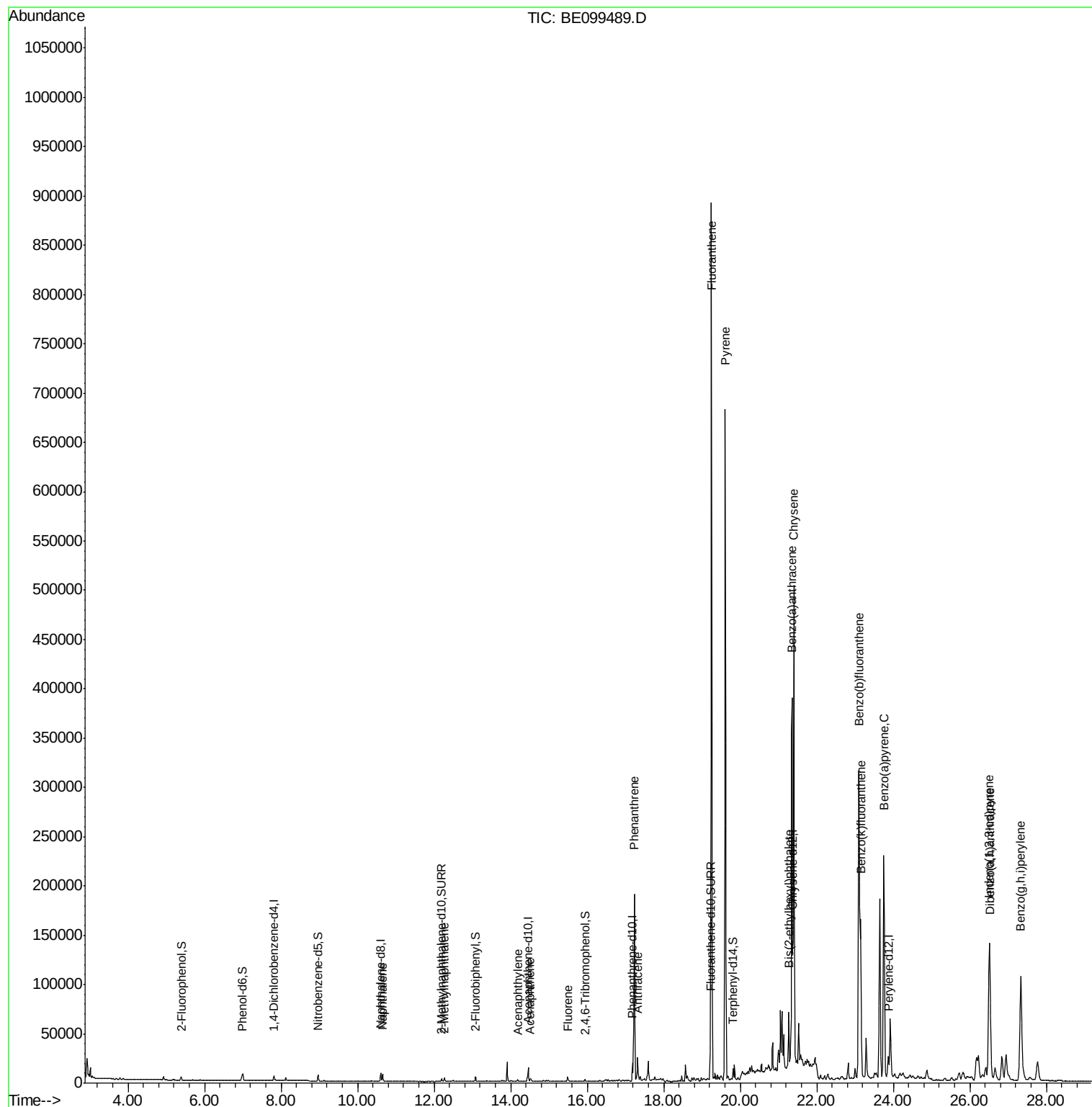
Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE050119\
Data File : BE099489.D
Acq On : 2 May 2019 6:59
Operator : JU/SJ
Sample : K2569-09
Misc :
ALS Vial : 34 Sample Multiplier: 1

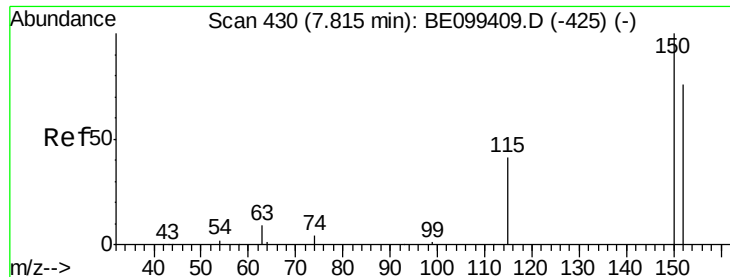
Instrument :
BNA_E
ClientSampleId :
PST-004-SW019-042319

Manual Integrations
APPROVED

Sohil
5/2/2019 4:48:28 PM

Quant Time: May 02 09:00:12 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





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.80 min Scan# 429

Delta R.T. -0.01 min

Lab File: BE099489.D

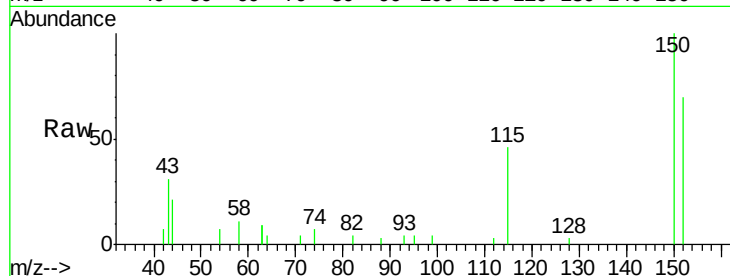
Acq: 2 May 2019 6:59

Instrument :

BNA_E

ClientSampleId :

PST-004-SW019-042319



Tgt Ion:152 Resp: 2459

Ion Ratio Lower Upper

152 100

150 143.9 104.8 157.2

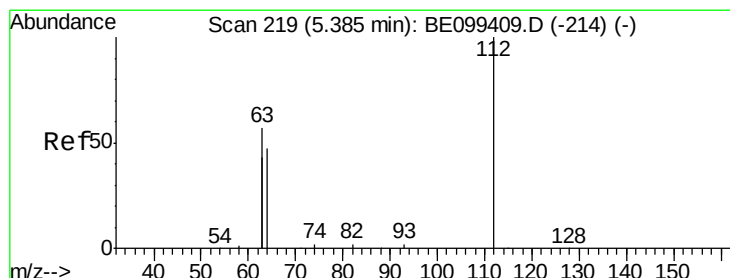
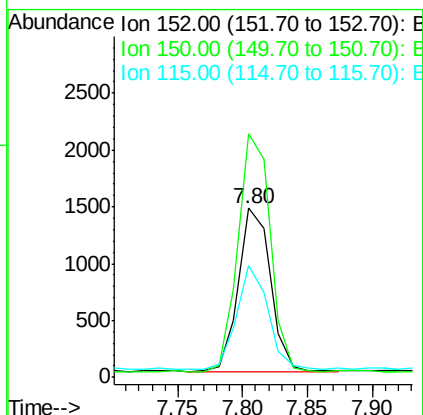
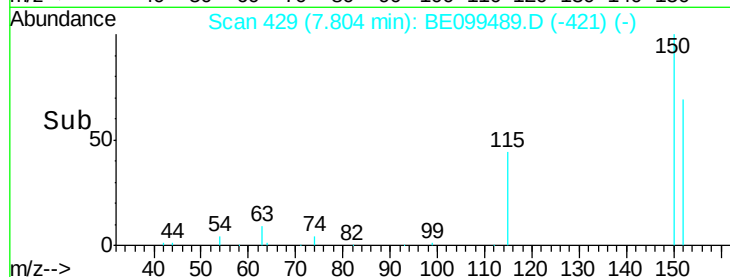
115 66.4 46.6 69.8

Manual Integrations

APPROVED

Sohil

5/2/2019 4:48:28 PM



#4

2-Fluorophenol

Concen: 0.313 ng

RT: 5.39 min Scan# 219

Delta R.T. 0.00 min

Lab File: BE099489.D

Acq: 2 May 2019 6:59

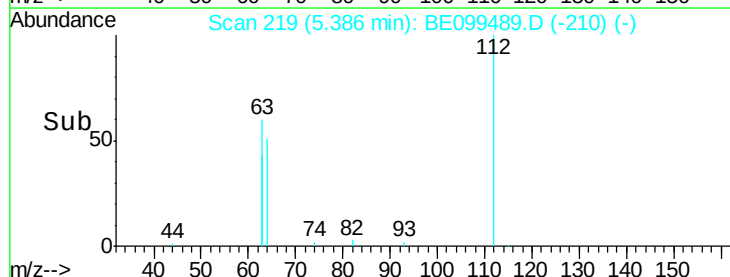
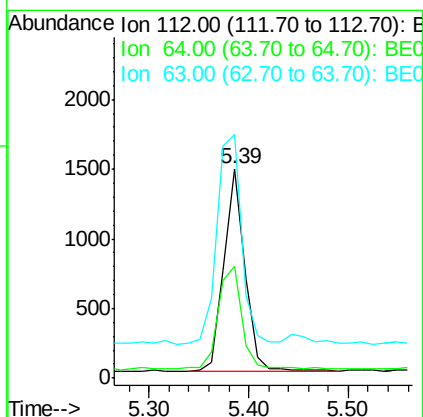
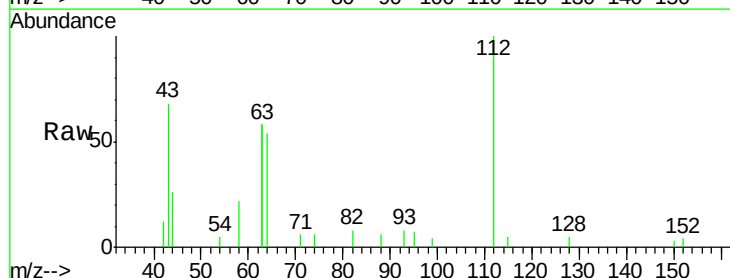
Tgt Ion:112 Resp: 2131

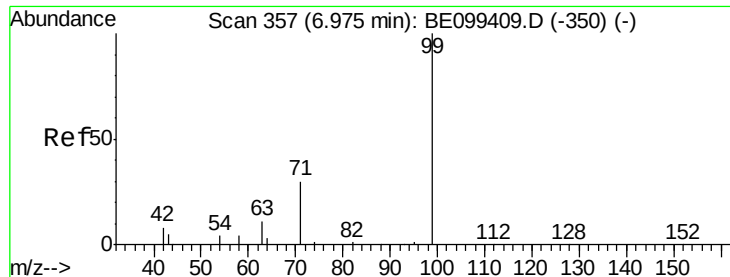
Ion Ratio Lower Upper

112 100

64 57.8 47.4 71.0

63 120.6 104.3 156.5





#5

Phenol-d6

Concen: 0.356 ng

RT: 6.98 min Scan# 357

Delta R.T. 0.00 min

Lab File: BE099489.D

Acq: 2 May 2019 6:59

Instrument :

BNA_E

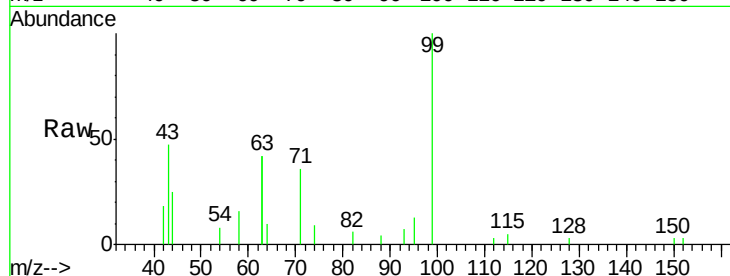
ClientSampleId :

PST-004-SW019-042319

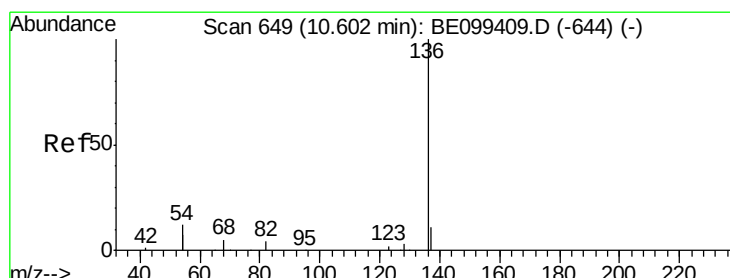
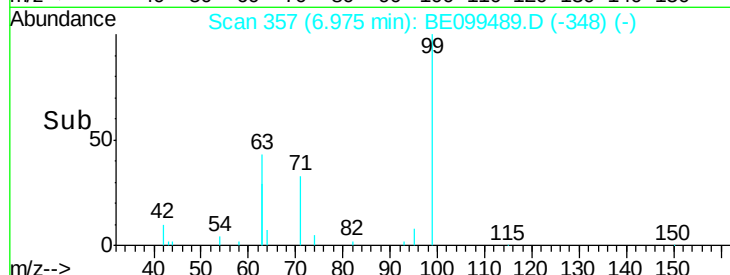
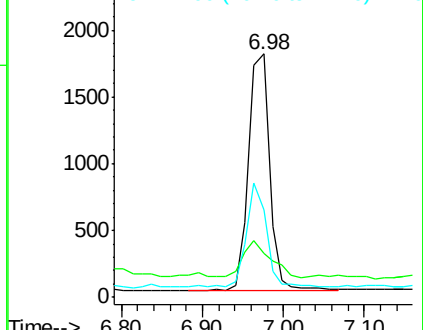
Tgt Ion:	99	Resp:	3220
Ion	Ratio	Lower	Upper
99	100		
42	20.1	14.9	22.3
71	42.2	33.0	49.6

Manual Integrations
APPROVED

Sohil
5/2/2019 4:48:28 PM



Abundance Ion 99.00 (98.70 to 99.70): BE0
Ion 42.00 (41.70 to 42.70): BE0
Ion 71.00 (70.70 to 71.70): BE0



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.60 min Scan# 649

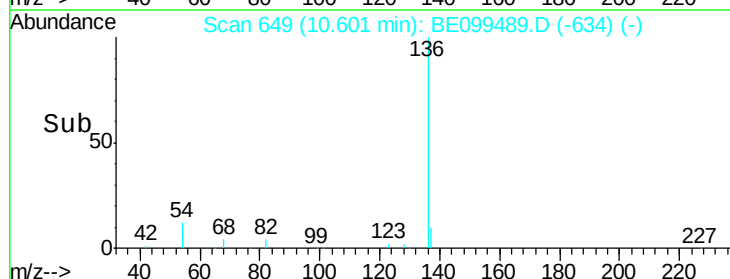
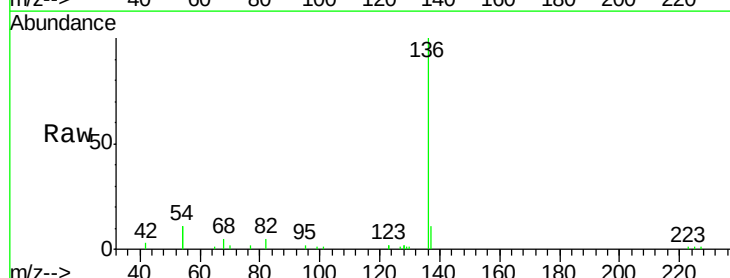
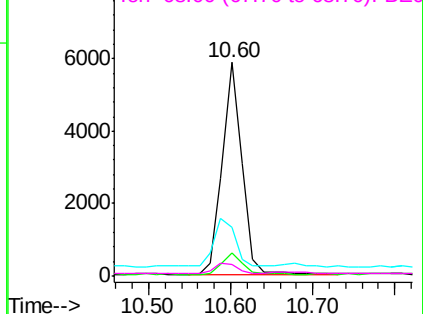
Delta R.T. -0.00 min

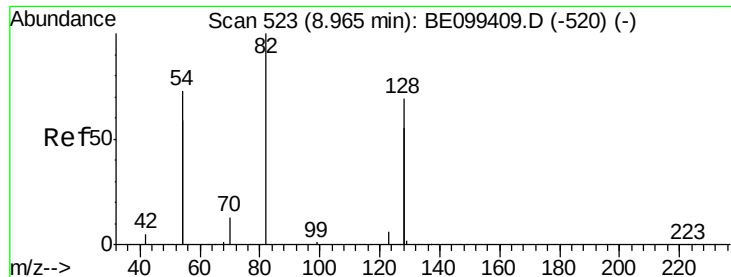
Lab File: BE099489.D

Acq: 2 May 2019 6:59

Tgt Ion:	136	Resp:	9741
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.8	14.8
54	22.9	18.5	27.7
68	5.3	4.7	7.1

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0
Ion 68.00 (67.70 to 68.70): BE0





#8

Nitrobenzene-d5

Concen: 0.283 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099489.D

Acq: 2 May 2019 6:59

Instrument :

BNA_E

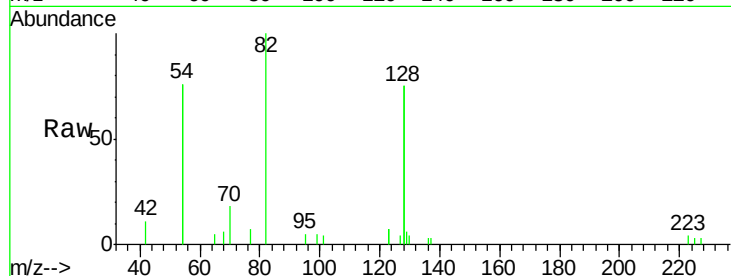
ClientSampleId :

PST-004-SW019-042319

Tgt Ion:	82	Resp:	2587
Ion Ratio	Lower	Upper	
82	100		
128	149.3	107.0	160.4
54	152.0	113.1	169.7

Manual Integrations
APPROVED

Sohil
5/2/2019 4:48:28 PM

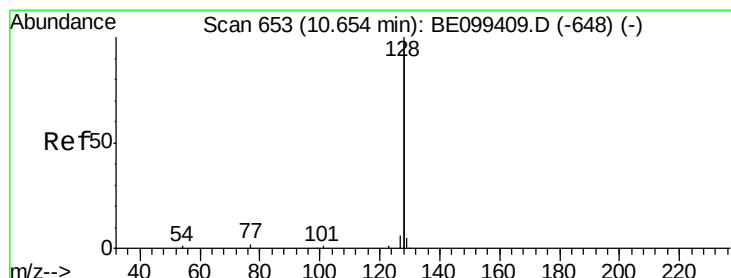
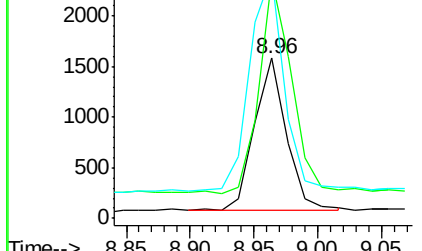
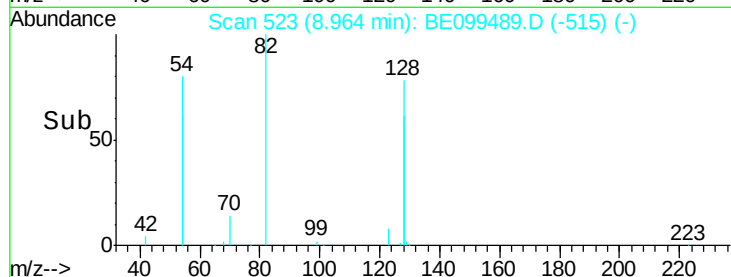


Abundance Ion 82.00 (81.70 to 82.70): BE099409.D (-520) (-)

Ion 128.00 (127.70 to 128.70): BE099409.D (-520) (-)

Ion 54.00 (53.70 to 54.70): BE099409.D (-520) (-)

Time-->



#9

Naphthalene

Concen: 0.110 ng

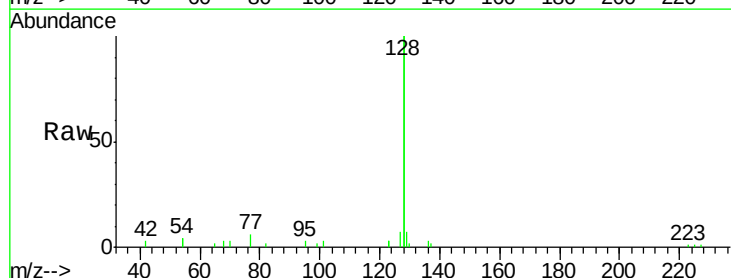
RT: 10.65 min Scan# 653

Delta R.T. -0.00 min

Lab File: BE099489.D

Acq: 2 May 2019 6:59

Tgt Ion:	128	Resp:	11675
Ion Ratio	Lower	Upper	
128	100		
129	3.3	2.4	3.6
127	3.4	2.8	4.2

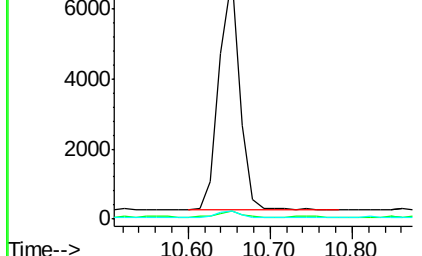
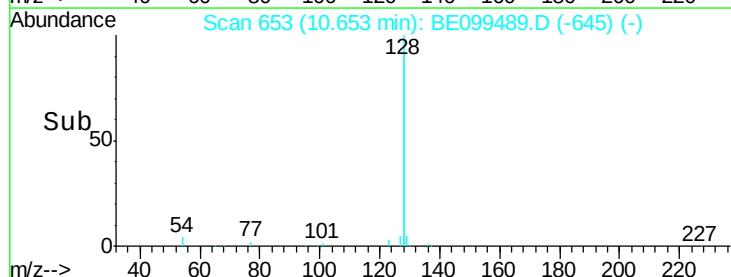


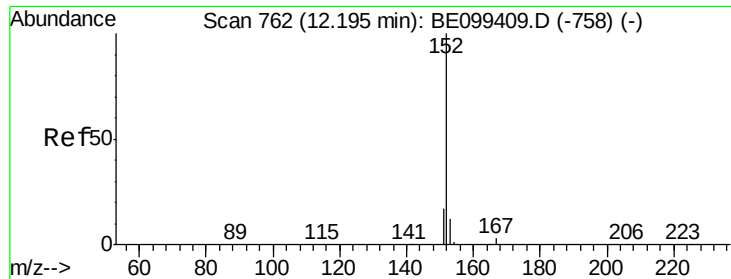
Abundance Ion 128.00 (127.70 to 128.70): BE099409.D (-648) (-)

Ion 129.00 (128.70 to 129.70): BE099409.D (-648) (-)

Ion 127.00 (126.70 to 127.70): BE099409.D (-648) (-)

Time-->





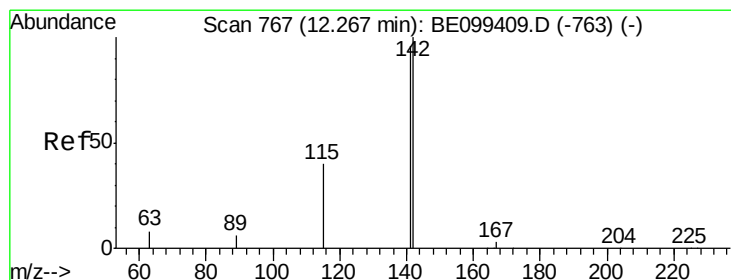
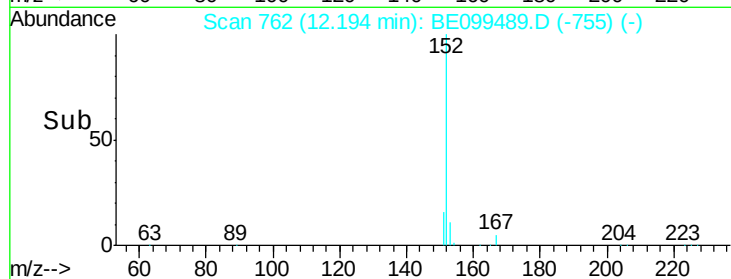
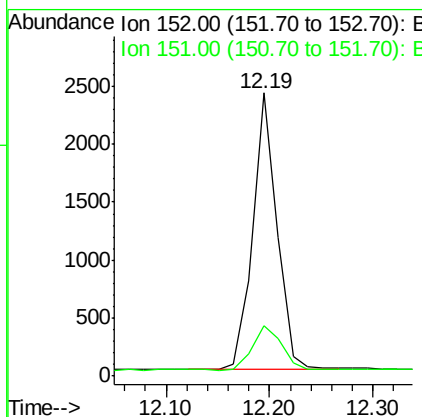
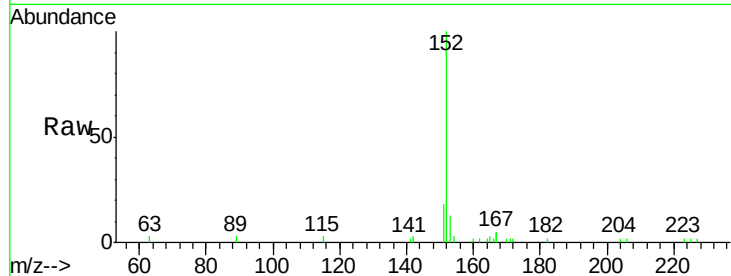
#11
 2-Methylnaphthalene-d10
 Concen: 0.221 ng
 RT: 12.19 min Scan# 762
 Delta R.T. -0.00 min
 Lab File: BE099489.D
 Acq: 2 May 2019 6:59

Instrument :
 BNA_E
 ClientSampleId :
 PST-004-SW019-042319

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.5	23.3

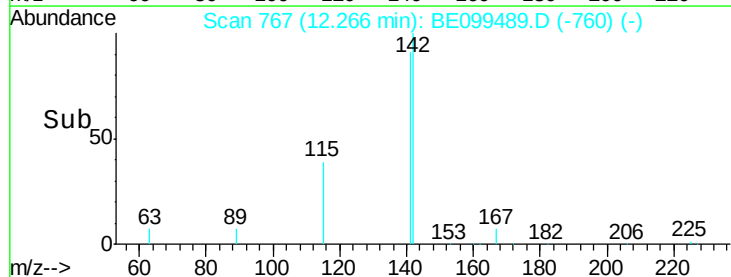
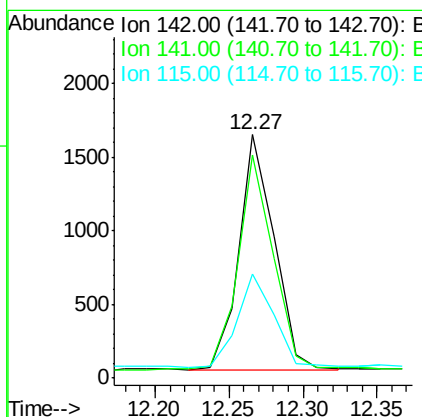
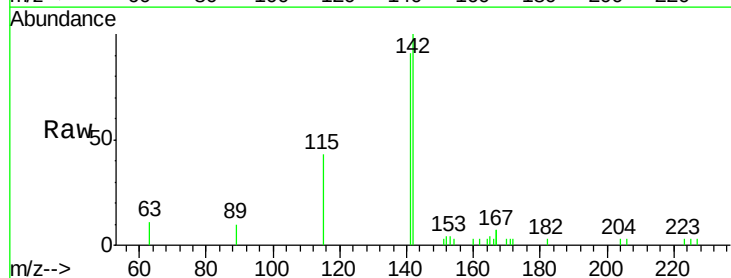
Manual Integrations
 APPROVED

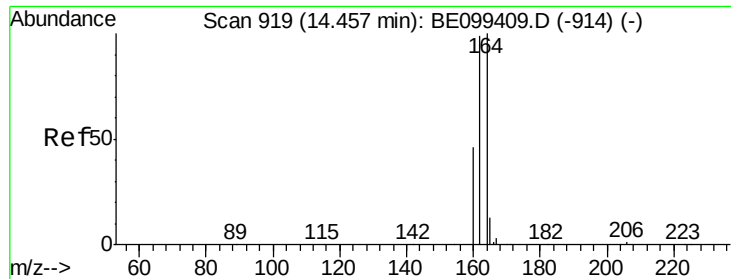
Sohil
 5/2/2019 4:48:28 PM



#12
 2-Methylnaphthalene
 Concen: 0.143 ng
 RT: 12.27 min Scan# 767
 Delta R.T. -0.00 min
 Lab File: BE099489.D
 Acq: 2 May 2019 6:59

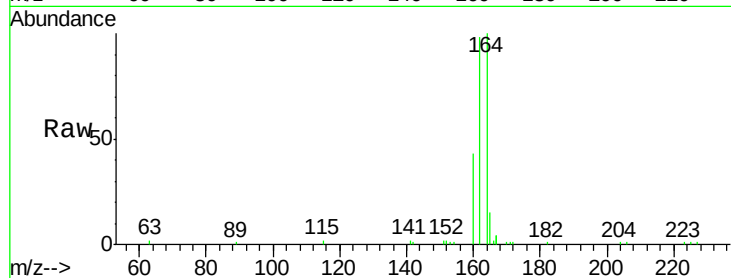
Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.5	77.0	115.4
115	42.7	33.4	50.0





#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.46 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: BE099489.D
 Acq: 2 May 2019 6:59

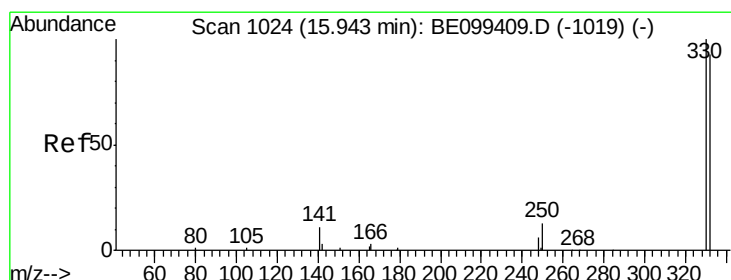
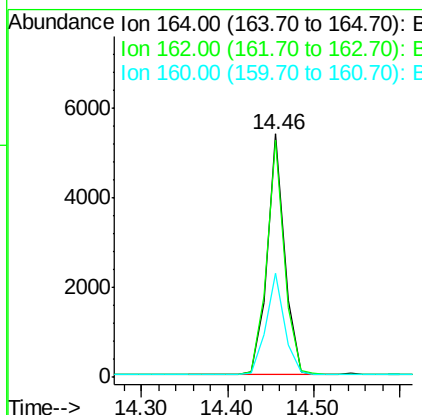
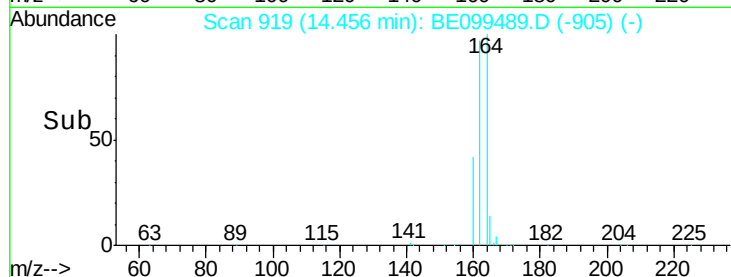
Instrument :
 BNA_E
 ClientSampleId :
 PST-004-SW019-042319



Tgt Ion:164 Resp: 7642
 Ion Ratio Lower Upper
 164 100
 162 97.6 79.0 118.4
 160 42.7 37.0 55.4

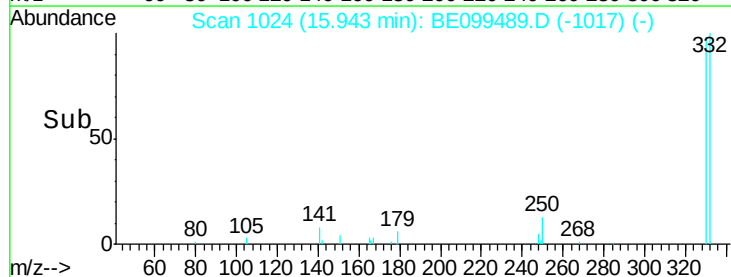
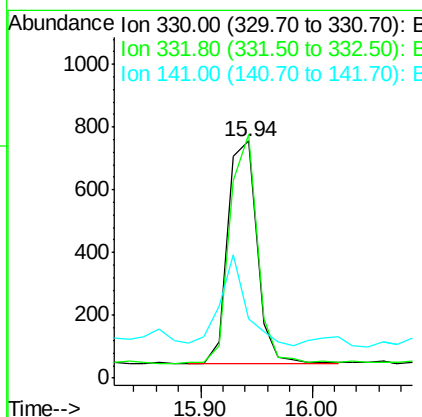
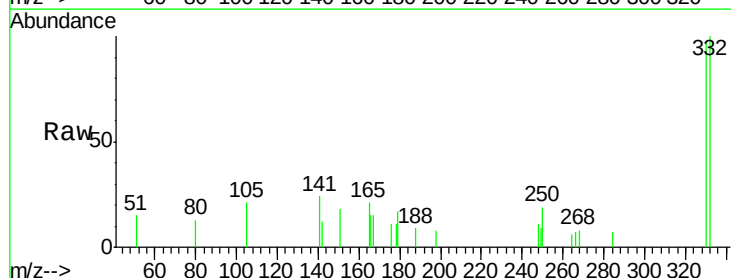
Manual Integrations
 APPROVED

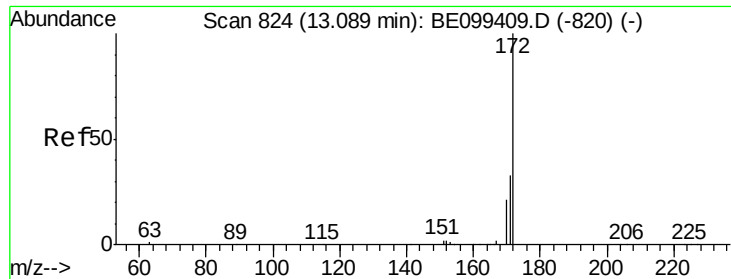
Sohil
 5/2/2019 4:48:28 PM



#14
 2,4,6-Tribromophenol
 Concen: 0.267 ng
 RT: 15.94 min Scan# 1024
 Delta R.T. 0.00 min
 Lab File: BE099489.D
 Acq: 2 May 2019 6:59

Tgt Ion:330 Resp: 1284
 Ion Ratio Lower Upper
 330 100
 332 101.2 71.5 107.3
 141 36.6 24.0 36.0#





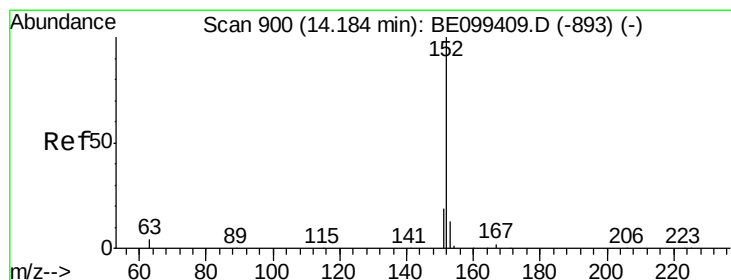
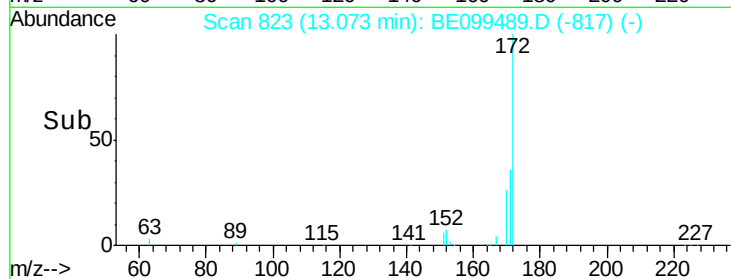
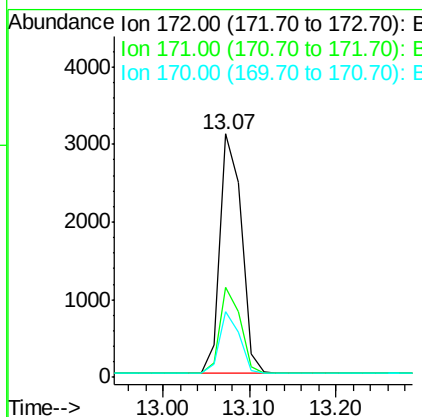
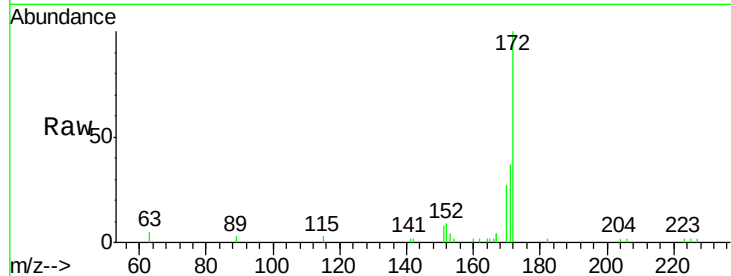
#15
2-Fluorobiphenyl
Concen: 0.185 ng
RT: 13.07 min Scan# 823
Delta R.T. -0.02 min
Lab File: BE099489.D
Acq: 2 May 2019 6:59

Instrument :
BNA_E
ClientSampleId :
PST-004-SW019-042319

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.9	26.6	39.8
170	26.8	17.0	25.6

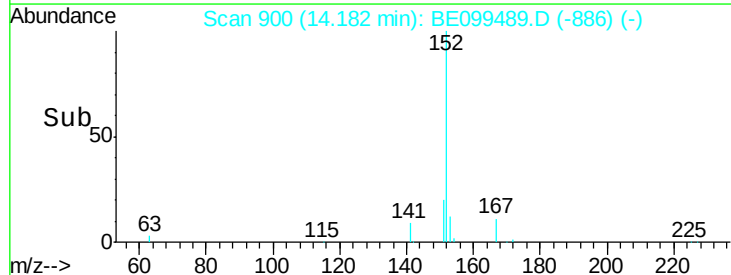
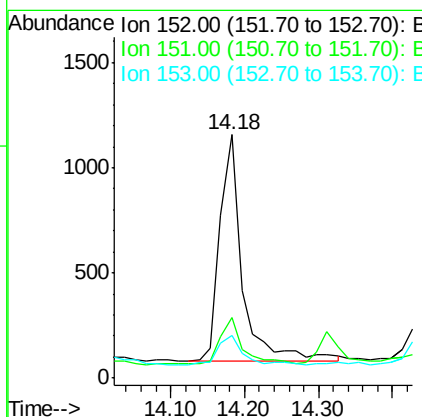
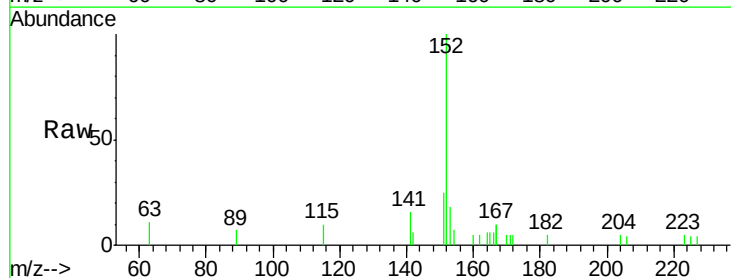
Manual Integrations
APPROVED

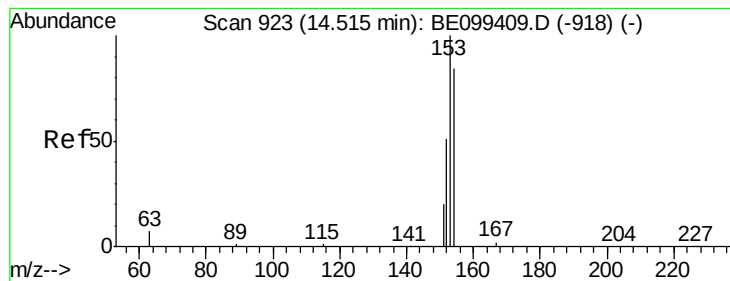
Sohil
5/2/2019 4:48:28 PM



#16
Acenaphthylene
Concen: 0.060 ng
RT: 14.18 min Scan# 900
Delta R.T. -0.00 min
Lab File: BE099489.D
Acq: 2 May 2019 6:59

Tgt Ion	Ratio	Lower	Upper
152	100		
151	24.4	15.4	23.2
153	15.7	9.8	14.6





#17

Acenaphthene

Concen: 0.071 ng

RT: 14.51 min Scan# 923

Delta R.T. -0.00 min

Lab File: BE099489.D

Acq: 2 May 2019 6:59

Instrument :

BNA_E

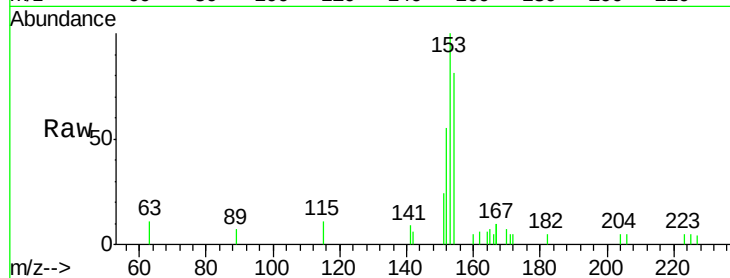
ClientSampleId :

PST-004-SW019-042319

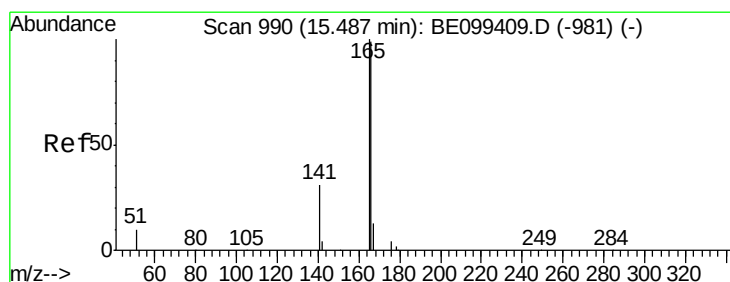
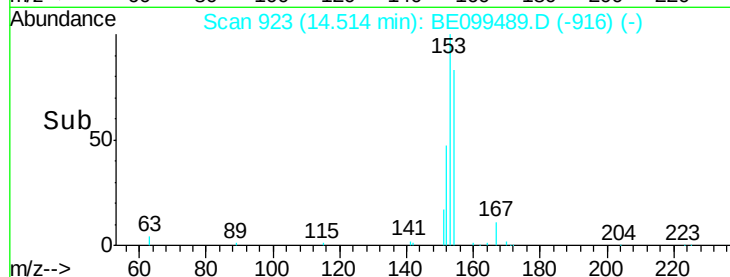
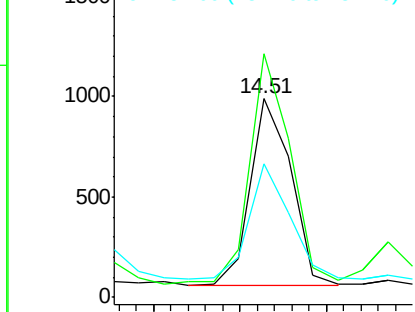
Tgt Ion:	154	Resp:	1524
Ion Ratio	Lower	Upper	
154	100		
153	123.8	92.6	138.8
152	61.2	45.8	68.8

Manual Integrations
APPROVED

Sohil
5/2/2019 4:48:28 PM



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: 0.115 ng

RT: 15.49 min Scan# 990

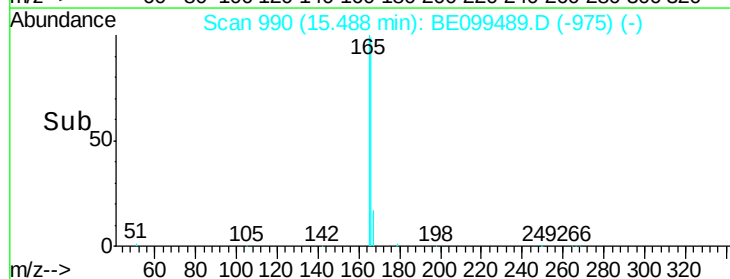
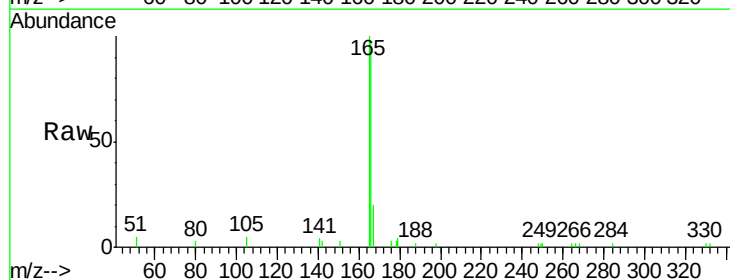
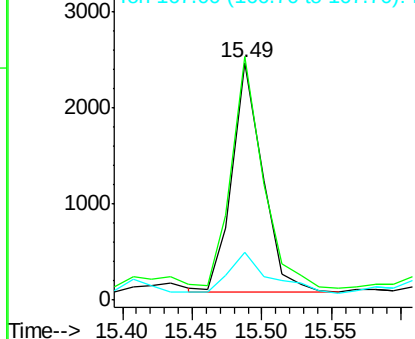
Delta R.T. 0.00 min

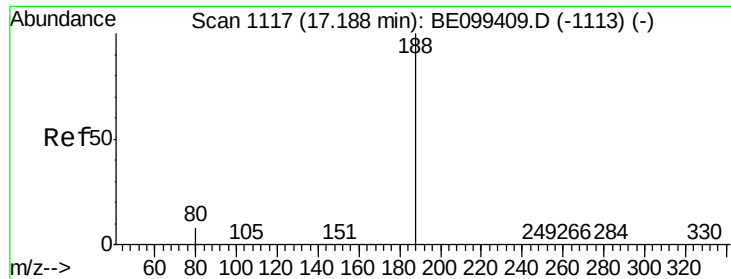
Lab File: BE099489.D

Acq: 2 May 2019 6:59

Tgt Ion:	166	Resp:	3625
Ion Ratio	Lower	Upper	
166	100		
165	103.4	80.3	120.5
167	23.3	10.7	16.1#

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





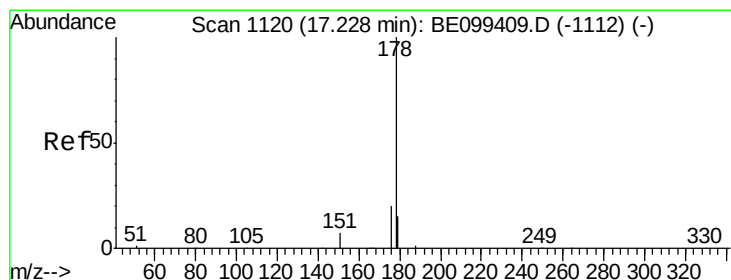
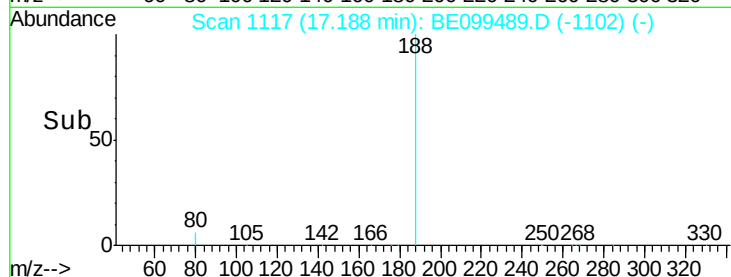
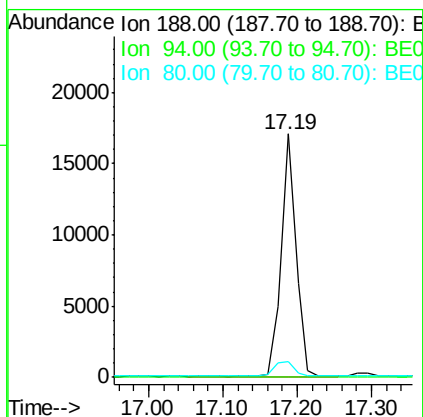
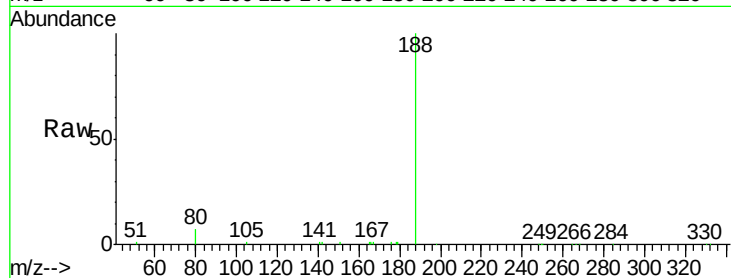
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.19 min Scan# 1117
Delta R.T. 0.00 min
Lab File: BE099489.D
Acq: 2 May 2019 6:59

Instrument :
BNA_E
ClientSampleId :
PST-004-SW019-042319

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	0.0	0.0	0.0
80	6.5	6.7	10.1#

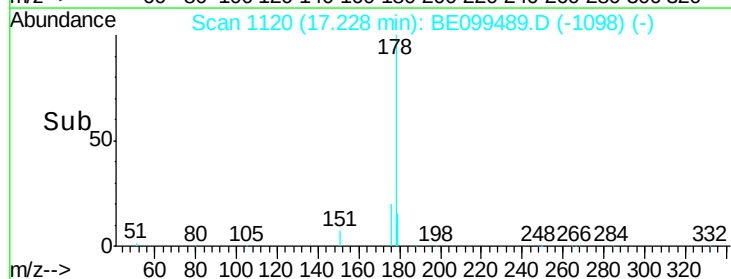
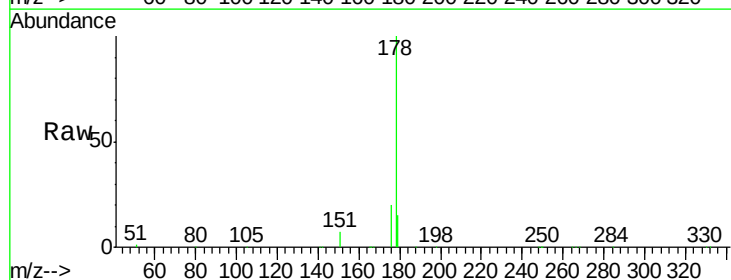
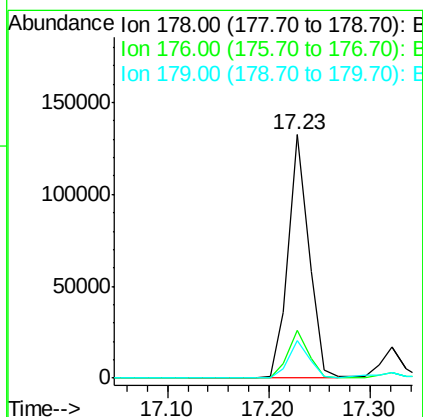
Manual Integrations
APPROVED

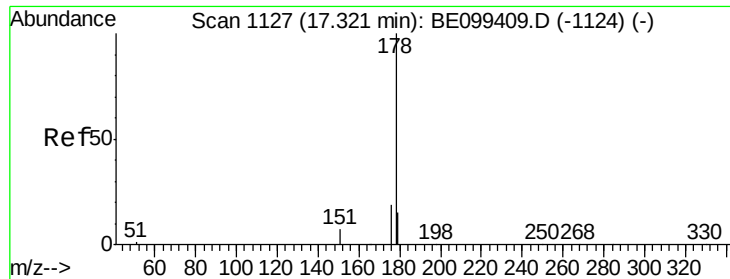
Sohil
5/2/2019 4:48:28 PM



#23
Phenanthrene
Concen: 3.079 ng
RT: 17.23 min Scan# 1120
Delta R.T. 0.00 min
Lab File: BE099489.D
Acq: 2 May 2019 6:59

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	19.6	15.6	23.4
179	15.6	12.0	18.0





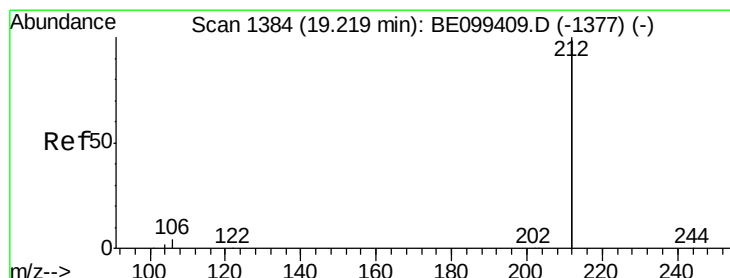
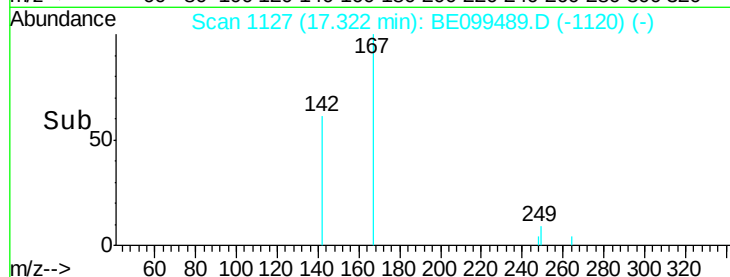
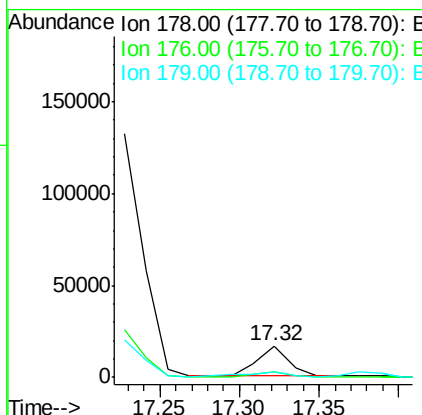
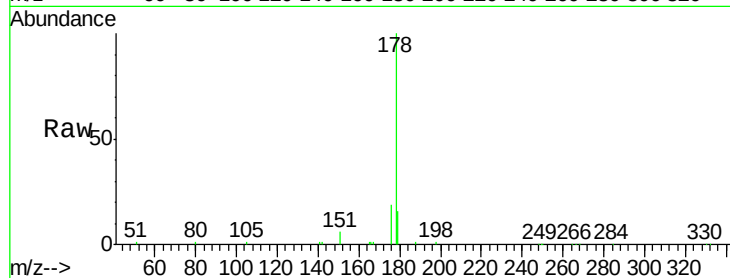
#24
 Anthracene
 Concen: 0.394 ng
 RT: 17.32 min Scan# 1127
 Delta R.T. 0.00 min
 Lab File: BE099489.D
 Acq: 2 May 2019 6:59

Instrument :
 BNA_E
 ClientSampleId :
 PST-004-SW019-042319

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.4	14.9	22.3
179	22.0	11.9	17.9

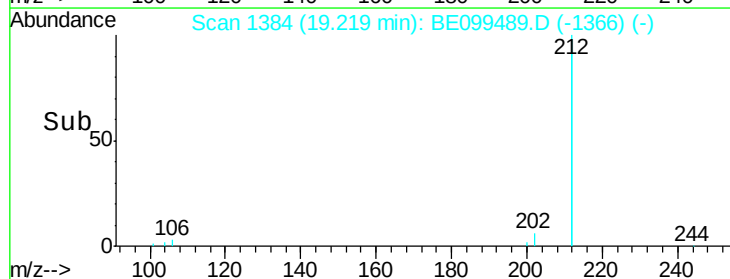
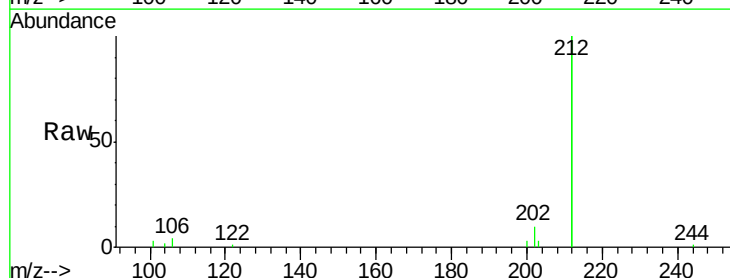
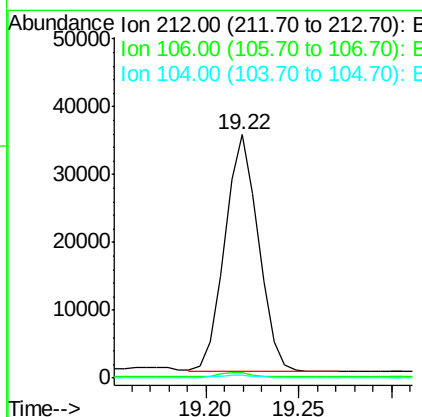
Manual Integrations
 APPROVED

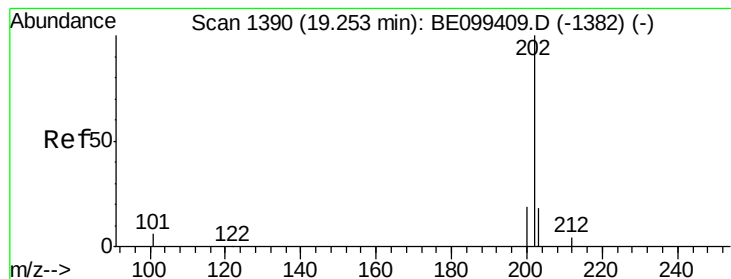
Sohil
 5/2/2019 4:48:28 PM



#25
 Fluoranthene-d10
 Concen: 0.139 ng
 RT: 19.22 min Scan# 1384
 Delta R.T. 0.00 min
 Lab File: BE099489.D
 Acq: 2 May 2019 6:59

Tgt Ion	Ratio	Lower	Upper
212	100		
106	1.9	1.5	2.3
104	1.0	0.9	1.3





#26

Fluoranthene

Concen: 8.559 ng

RT: 19.25 min Scan# 1389

Delta R.T. -0.01 min

Lab File: BE099489.D

Acq: 2 May 2019 6:59

Instrument :

BNA_E

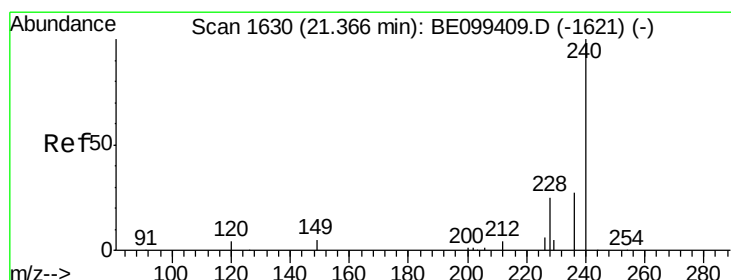
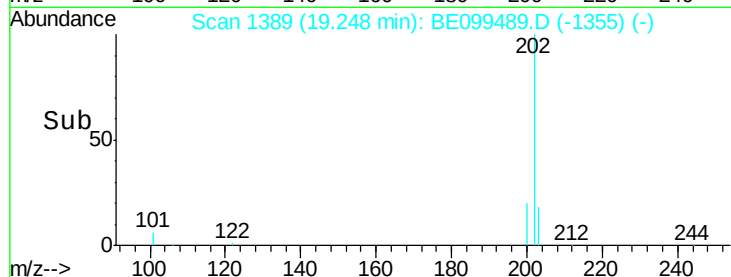
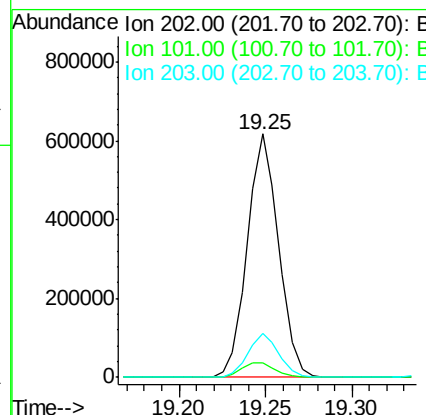
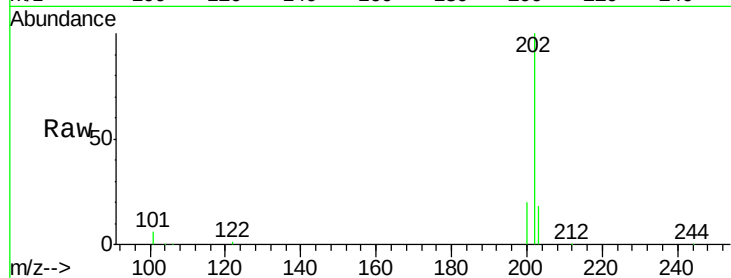
ClientSampleId :

PST-004-SW019-042319

Tgt	Ion	202	Resp:	776492
Ion	Ratio	Lower	Upper	
202	100			
101	6.4	5.4	8.0	
203	17.7	13.9	20.9	

Manual Integrations
APPROVED

Sohil
5/2/2019 4:48:28 PM



#27

Chrysene-d12

Concen: 0.400 ng

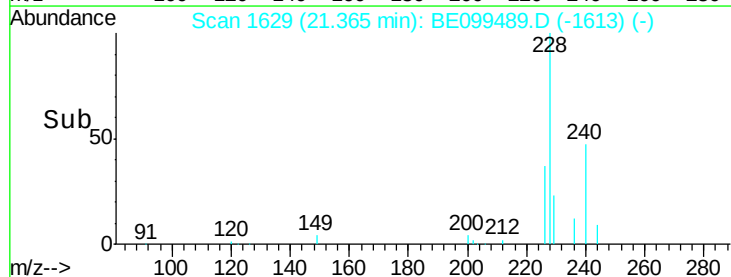
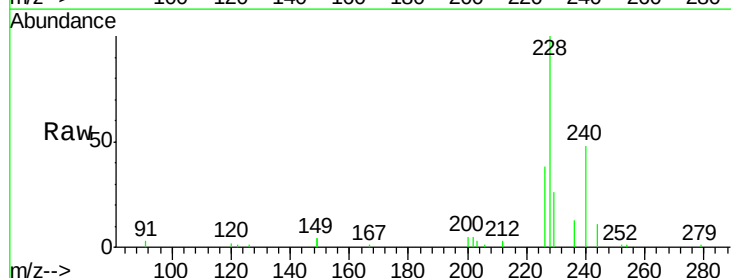
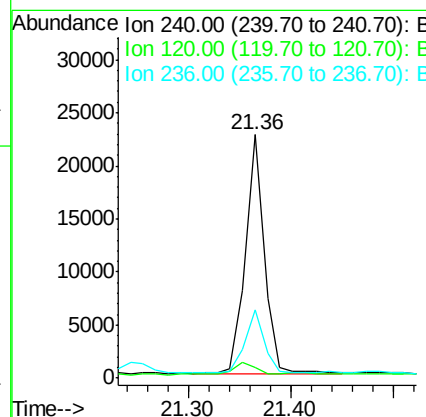
RT: 21.36 min Scan# 1629

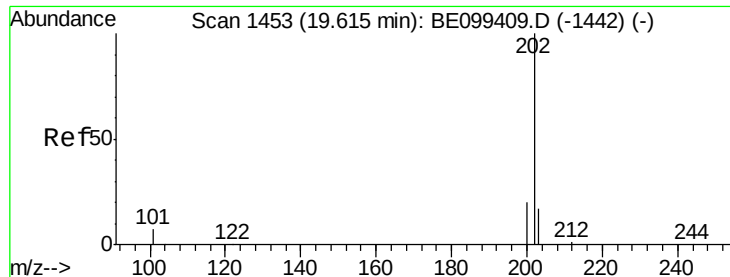
Delta R.T. -0.00 min

Lab File: BE099489.D

Acq: 2 May 2019 6:59

Tgt	Ion	240	Resp:	28775
Ion	Ratio	Lower	Upper	
240	100			
120	4.4	4.0	6.0	
236	28.1	22.0	33.0	





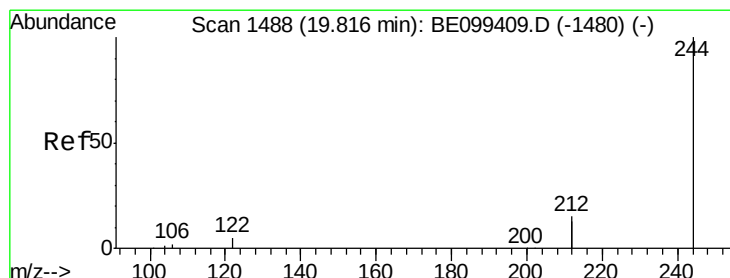
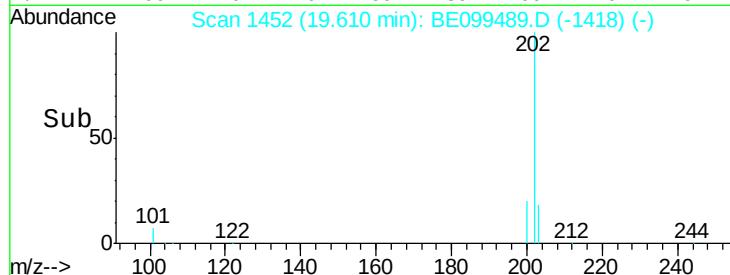
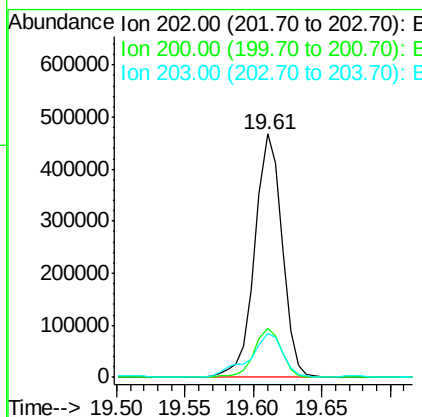
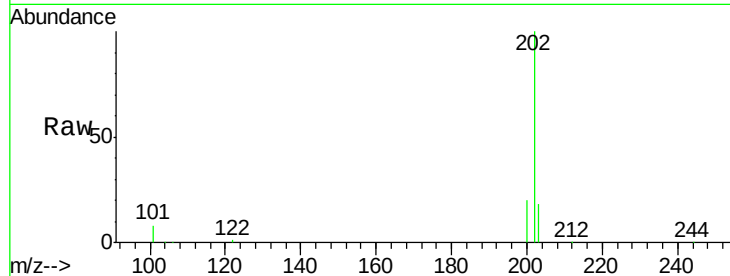
#28
 Pyrene
 Concen: 8.590 ng
 RT: 19.61 min Scan# 1452
 Delta R.T. -0.01 min
 Lab File: BE099489.D
 Acq: 2 May 2019 6:59

Instrument :
 BNA_E
 ClientSampleId :
 PST-004-SW019-042319

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	20.1	15.7	23.5
203	22.3	13.9	20.9

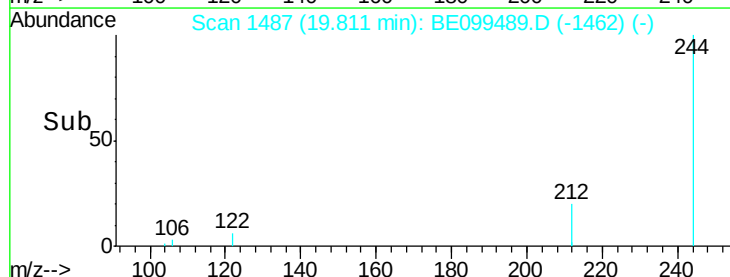
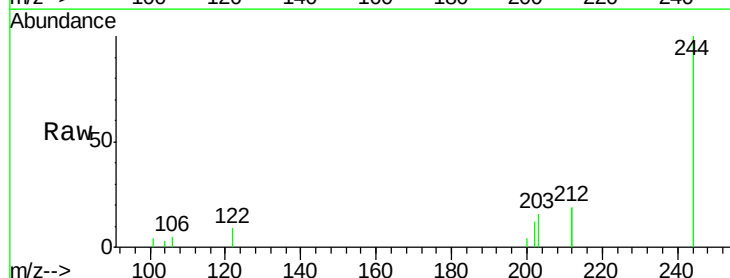
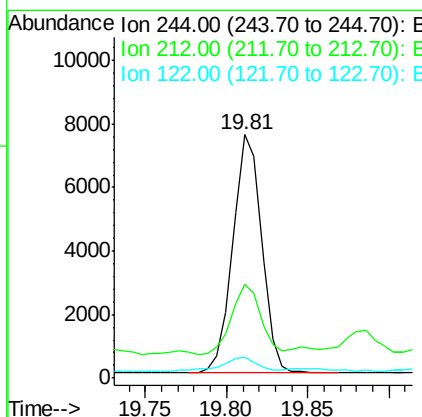
Manual Integrations
 APPROVED

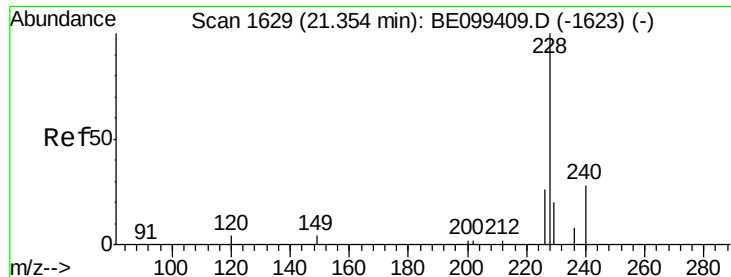
Sohil
 5/2/2019 4:48:28 PM



#29
 Terphenyl-d14
 Concen: 0.175 ng
 RT: 19.81 min Scan# 1487
 Delta R.T. -0.01 min
 Lab File: BE099489.D
 Acq: 2 May 2019 6:59

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	38.7	23.2	34.8
122	8.8	4.2	6.4





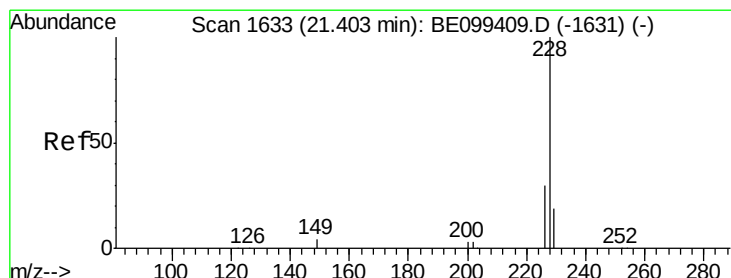
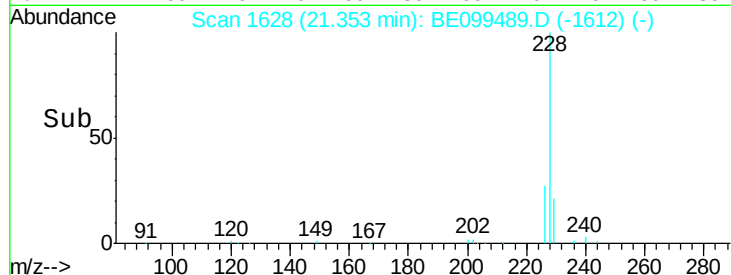
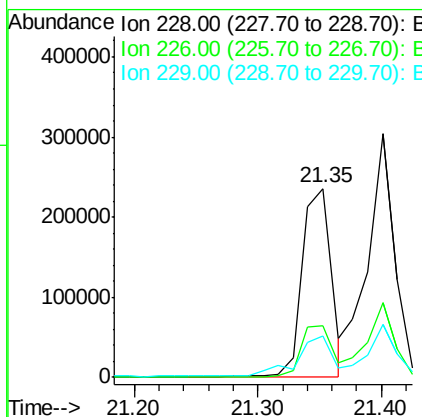
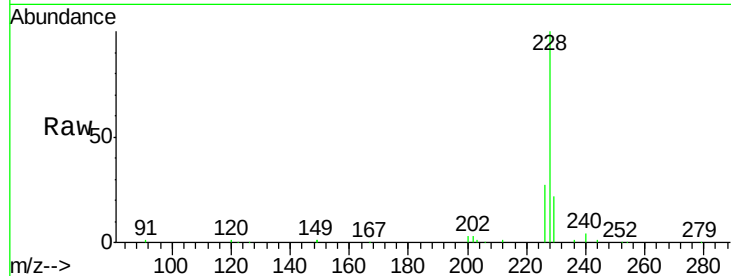
#30
Benzo(a)anthracene
Concen: 4.170 ng
RT: 21.35 min Scan# 1628
Delta R.T. -0.00 min
Lab File: BE099489.D
Acq: 2 May 2019 6:59

Instrument :
BNA_E
ClientSampleId :
PST-004-SW019-042319

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.2	21.0	31.6
229	21.6	16.6	25.0

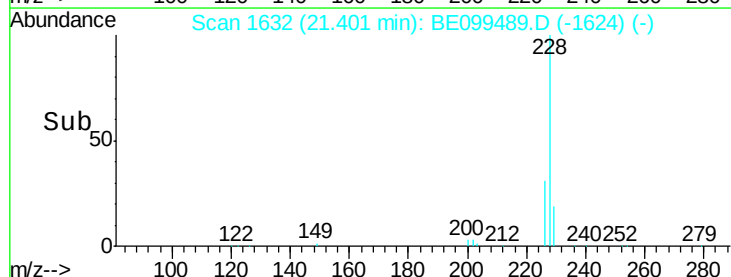
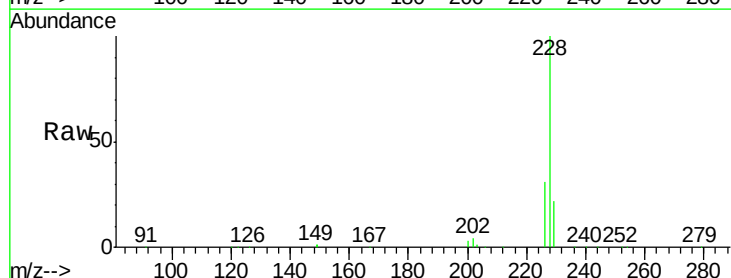
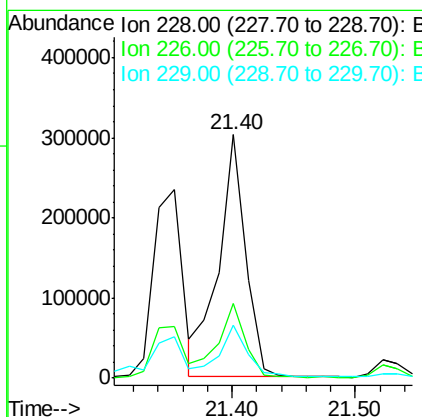
Manual Integrations
APPROVED

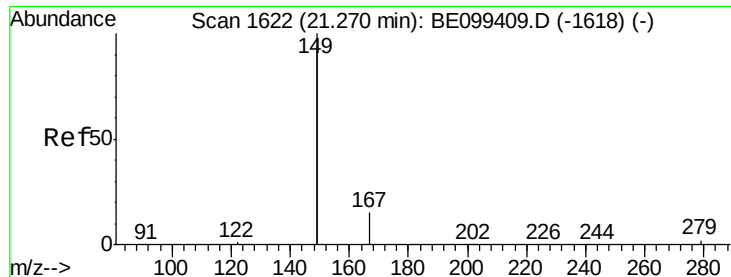
Sohil
5/2/2019 4:48:28 PM



#31
Chrysene
Concen: 5.157 ng
RT: 21.40 min Scan# 1632
Delta R.T. -0.00 min
Lab File: BE099489.D
Acq: 2 May 2019 6:59

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.0	36.0
229	21.8	15.8	23.8





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.405 ng

RT: 21.27 min Scan# 1621

Delta R.T. -0.00 min

Lab File: BE099489.D

Acq: 2 May 2019 6:59

Instrument :

BNA_E

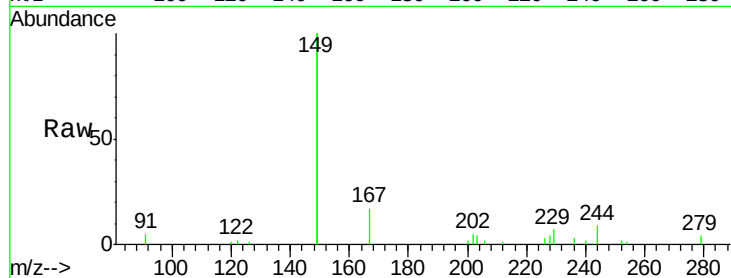
ClientSampleId :

PST-004-SW019-042319

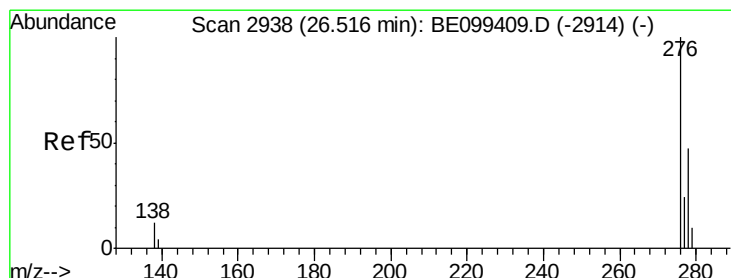
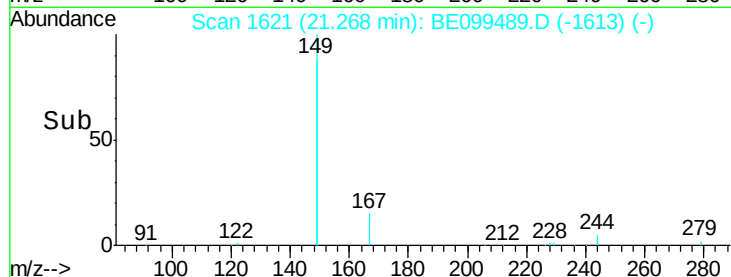
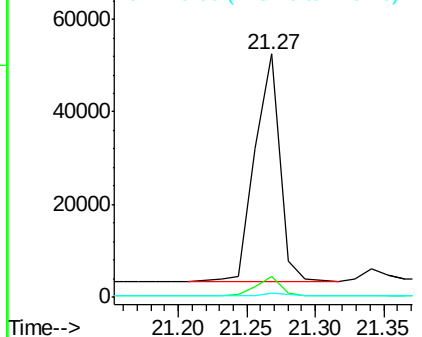
Tgt Ion:	149	Resp:	61621
Ion Ratio	Lower	Upper	
149	100		
167	7.6	5.8	8.6
279	1.5	1.0	1.6

Manual Integrations
APPROVED

Sohil
5/2/2019 4:48:28 PM



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: 2.758 ng

RT: 26.51 min Scan# 2935

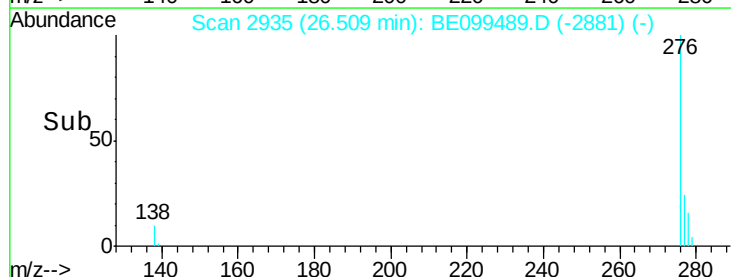
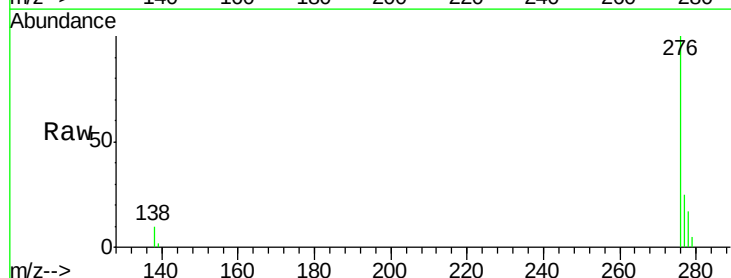
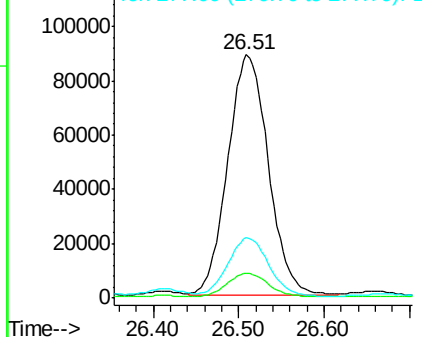
Delta R.T. -0.01 min

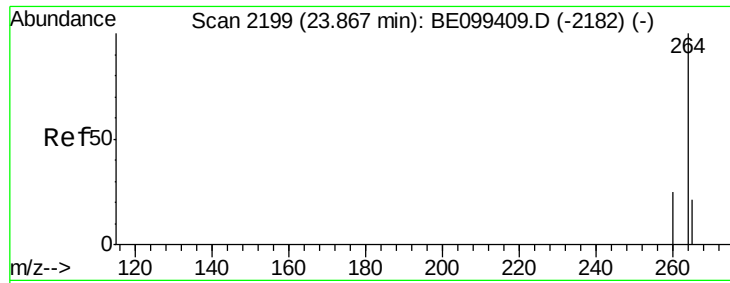
Lab File: BE099489.D

Acq: 2 May 2019 6:59

Tgt Ion:	276	Resp:	292440
Ion Ratio	Lower	Upper	
276	100		
138	10.0	10.2	15.2#
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





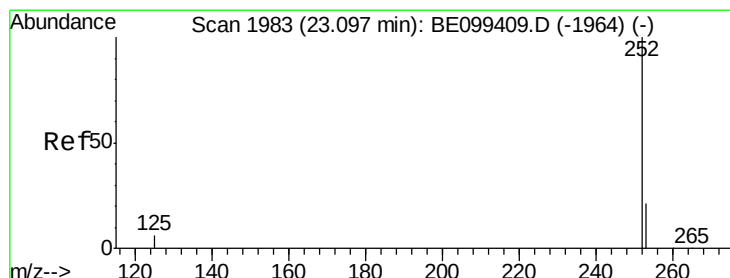
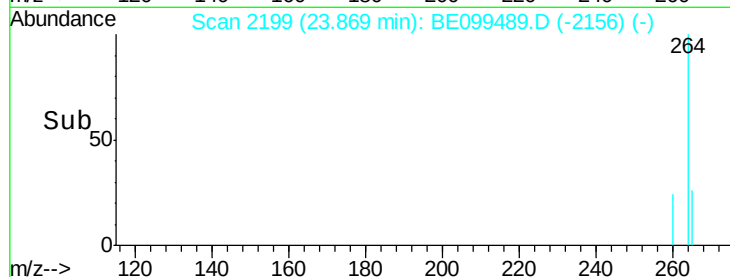
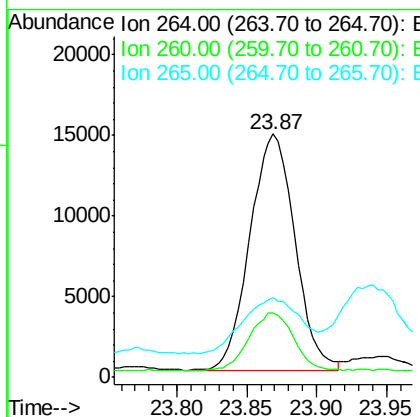
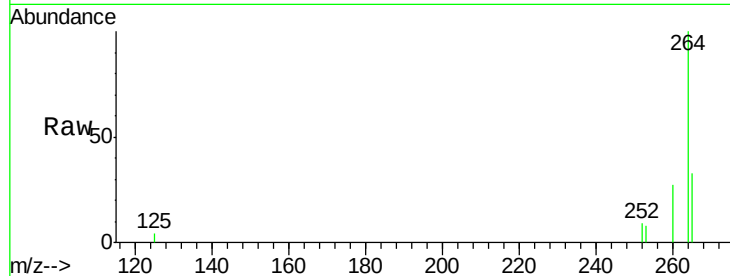
#34
Perylene-d12
 Concen: 0.400 ng
 RT: 23.87 min Scan# 2199
 Delta R.T. 0.00 min
 Lab File: BE099489.D
 Acq: 2 May 2019 6:59

Instrument :
 BNA_E
 ClientSampleId :
 PST-004-SW019-042319

Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	26.6	20.2	30.2
265	32.9	21.3	31.9

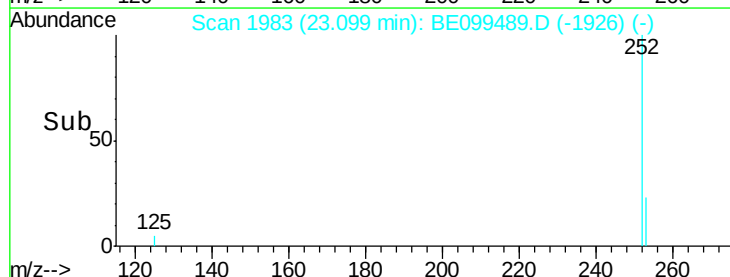
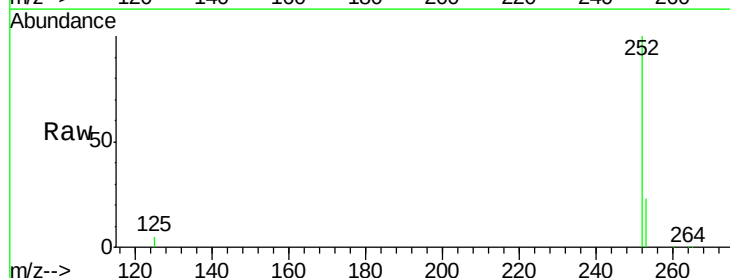
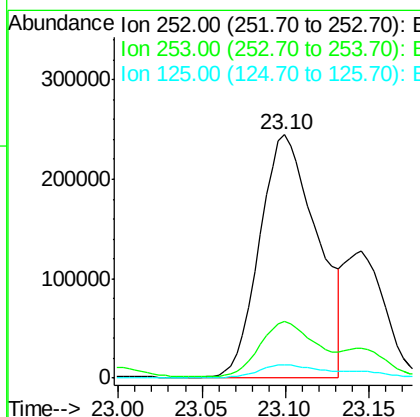
Manual Integrations
 APPROVED

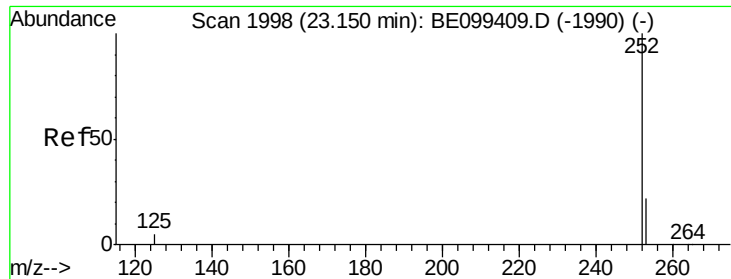
Sohil
 5/2/2019 4:48:28 PM



#35
Benzo(b)fluoranthene
 Concen: 6.157 ng
 RT: 23.10 min Scan# 1983
 Delta R.T. 0.00 min
 Lab File: BE099489.D
 Acq: 2 May 2019 6:59

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	23.3	18.1	27.1
125	5.3	5.6	8.4





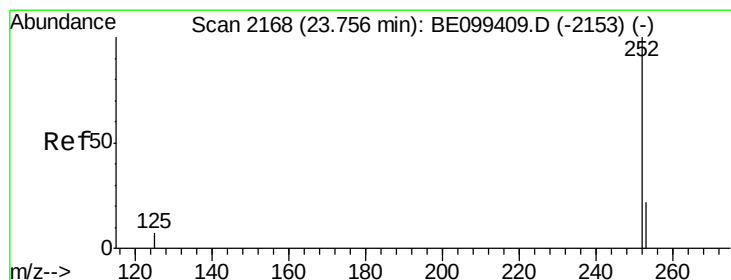
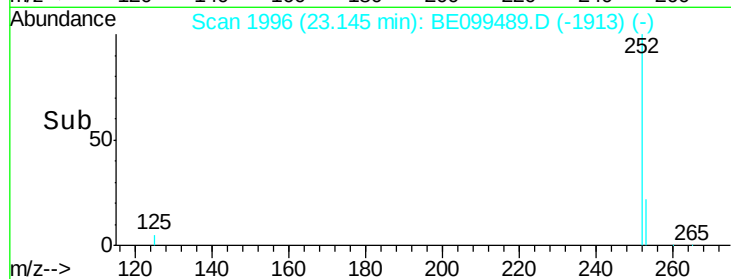
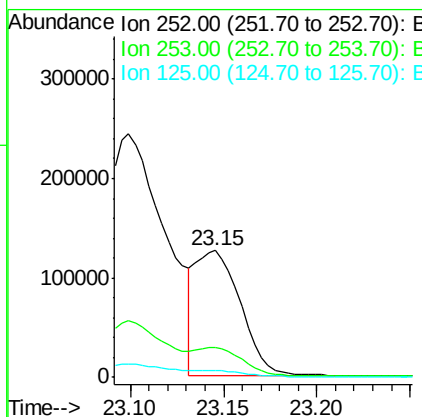
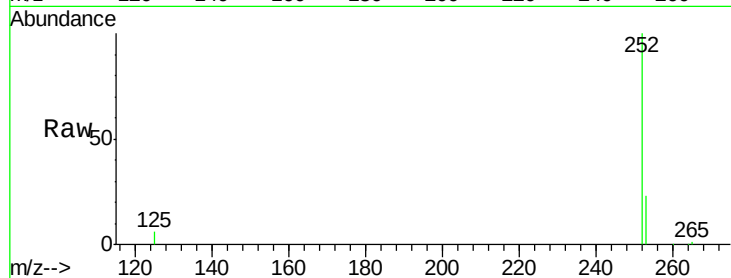
#36
Benzo(k)fluoranthene
Concen: 2.320 ng m
RT: 23.15 min Scan# 1996
Delta R.T. -0.00 min
Lab File: BE099489.D
Acq: 2 May 2019 6:59

Instrument :
BNA_E
ClientSampleId :
PST-004-SW019-042319

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.4	27.6
125	5.6	5.0	7.4

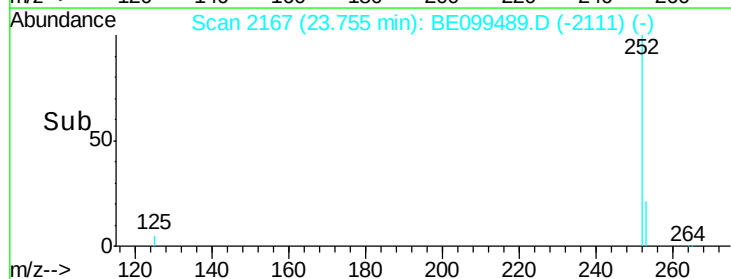
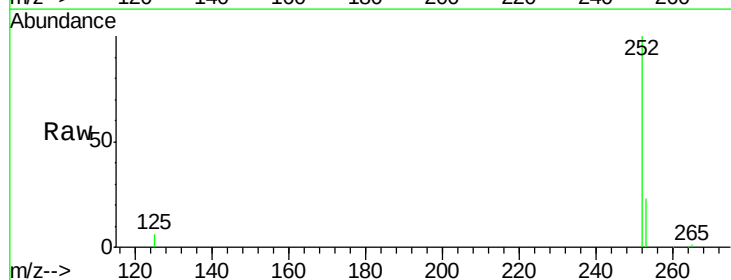
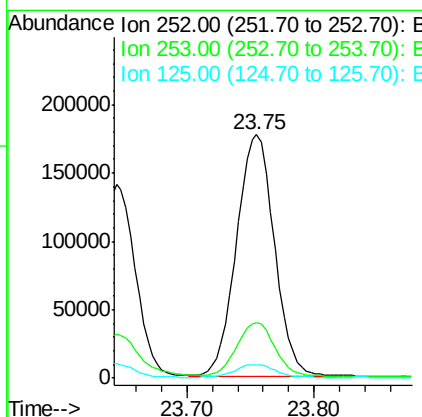
Manual Integrations
APPROVED

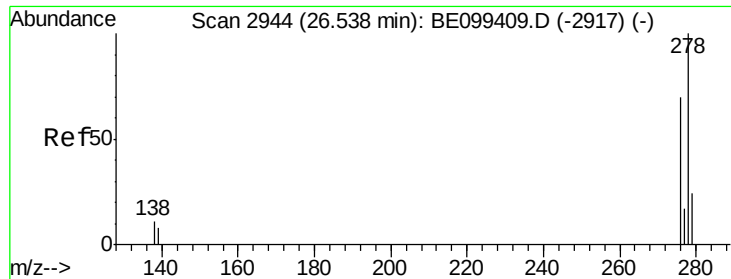
Sohil
5/2/2019 4:48:28 PM



#37
Benzo(a)pyrene
Concen: 4.111 ng m
RT: 23.75 min Scan# 2167
Delta R.T. -0.00 min
Lab File: BE099489.D
Acq: 2 May 2019 6:59

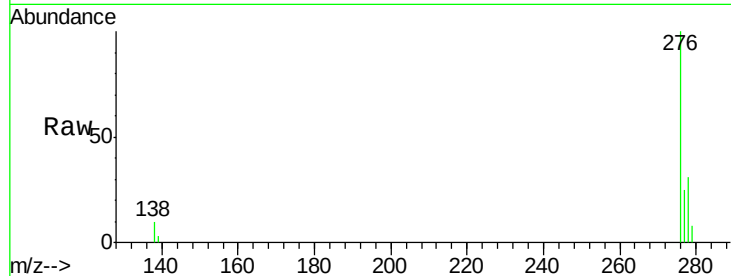
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.9	28.3
125	5.6	6.7	10.1#





#38
Dibenzo(a,h)anthracene
Concen: 0.760 ng
RT: 26.53 min Scan# 2941
Delta R.T. -0.01 min
Lab File: BE099489.D
Acq: 2 May 2019 6:59

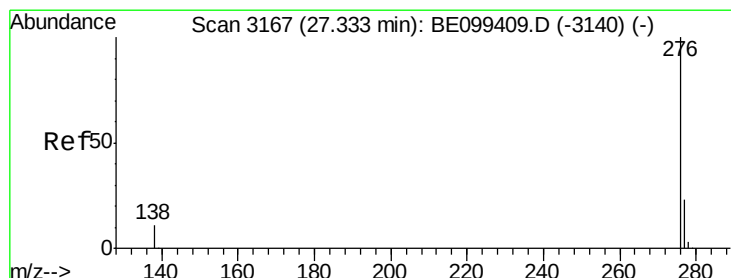
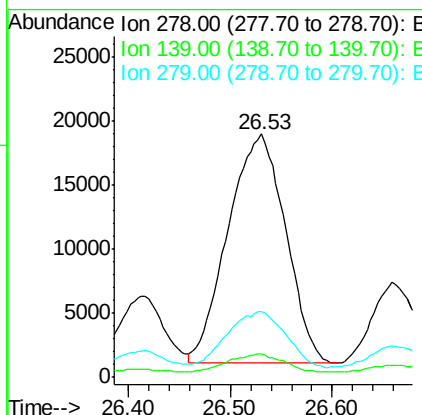
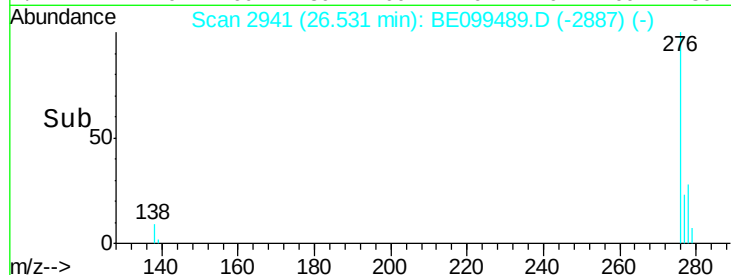
Instrument :
BNA_E
ClientSampleId :
PST-004-SW019-042319



Tgt Ion: 278 Resp: 69687
Ion Ratio Lower Upper
278 100
139 9.4 7.7 11.5
279 26.8 20.2 30.2

Manual Integrations
APPROVED

Sohil
5/2/2019 4:48:28 PM



#39
Benzo(g,h,i)perylene
Concen: 3.045 ng
RT: 27.33 min Scan# 3166
Delta R.T. 0.00 min
Lab File: BE099489.D
Acq: 2 May 2019 6:59

Tgt Ion: 276 Resp: 279643
Ion Ratio Lower Upper
276 100
277 24.4 19.5 29.3
138 10.3 9.6 14.4

