

Data Path : Z:\HPCHEM1\BNA E\DATA\BE082916\
 Data File : BE092284.D
 Acq On : 29 Aug 2016 10:49
 Operator : UM/SJ
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC0.4

Manual Integrations
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Quant Time: Aug 29 11:36:31 2016
 Quant Title :
 QLast Update : Mon Aug 29 18:19:23 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.19	152	9574	5.00	ng	0.02
7) Naphthalene-d8	10.97	136	43003	5.00	ng	0.00
12) Acenaphthene-d10	14.83	164	22674	5.00	ng	0.00
18) Phenanthrene-d10	17.58	188	57120	5.00	ng	0.02
24) Chrysene-d12	21.75	240	62833	5.00	ng	0.00
31) Perylene-d12	24.12	264	62342	5.00	ng	-0.01

System Monitoring Compounds

4) 2-Fluorophenol	5.70	112	752	0.36	ng	0.00
5) Phenol-d6	7.38	99	915	0.30	ng	0.02
8) Nitrobenzene-d5	9.36	82	804	0.26	ng	0.00
13) 2,4,6-Tribromophenol	16.33	330	204	0.47	ng	0.00
14) 2-Fluorobiphenyl	13.46	172	2627	0.37	ng	-0.01
26) Terphenyl-d14	20.19	244	3140	0.30	ng	0.00

Target Compounds

						Ovalue
2) 1,4-Dioxane	3.43	88	568	0.45	ng	90
3) n-Nitrosodimethylamine	3.80	42	472	0.41	ng	# 97
6) bis(2-Chloroethyl)ether	7.61	93	737	0.30	ng	96
9) Naphthalene	11.01	128	3539	0.37	ng	97
10) Hexachlorobutadiene	11.30	225	544	0.39	ng	99
11) 2-Methylnaphthalene	12.66	142	2062	0.34	ng	97
15) Acenaphthylene	14.54	152	13622	0.35	ng	99
16) Acenaphthene	14.88	154	2286	0.36	ng	98
17) Fluorene	15.88	166	2709	0.36	ng	99
19) Hexachlorobenzene	16.89	284	800	0.35	ng	# 100
20) Pentachlorophenol	17.26	266	250	0.51	ng	94
21) Phenanthrene	17.63	178	4654	0.32	ng	99
22) Anthracene	17.72	178	4196	0.31	ng	100
23) Fluoranthene	19.63	202	20173	0.34	ng	100
25) Pyrene	19.99	202	21414	0.29	ng	100
27) Benzo(a)anthracene	21.72	228	21532m	0.29	ng	
28) Chrysene	21.79	228	26915m	0.39	ng	
29) Bis(2-ethylhexyl)phthalate	21.66	149	1369	0.34	ng	# 98
30) Indeno(1,2,3-cd)pyrene	26.63	276	21051	0.28	ng	99
32) Benzo(b)fluoranthene	23.39	252	4982	0.30	ng	98
33) Benzo(k)fluoranthene	23.44	252	5605	0.34	ng	98
34) Benzo(a)pyrene	24.01	252	4790	0.31	ng	98
35) Dibenzo(a,h)anthracene	26.67	278	3862	0.27	ng	96
36) Benzo(g,h,i)perylene	27.40	276	19899	0.32	ng	98

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

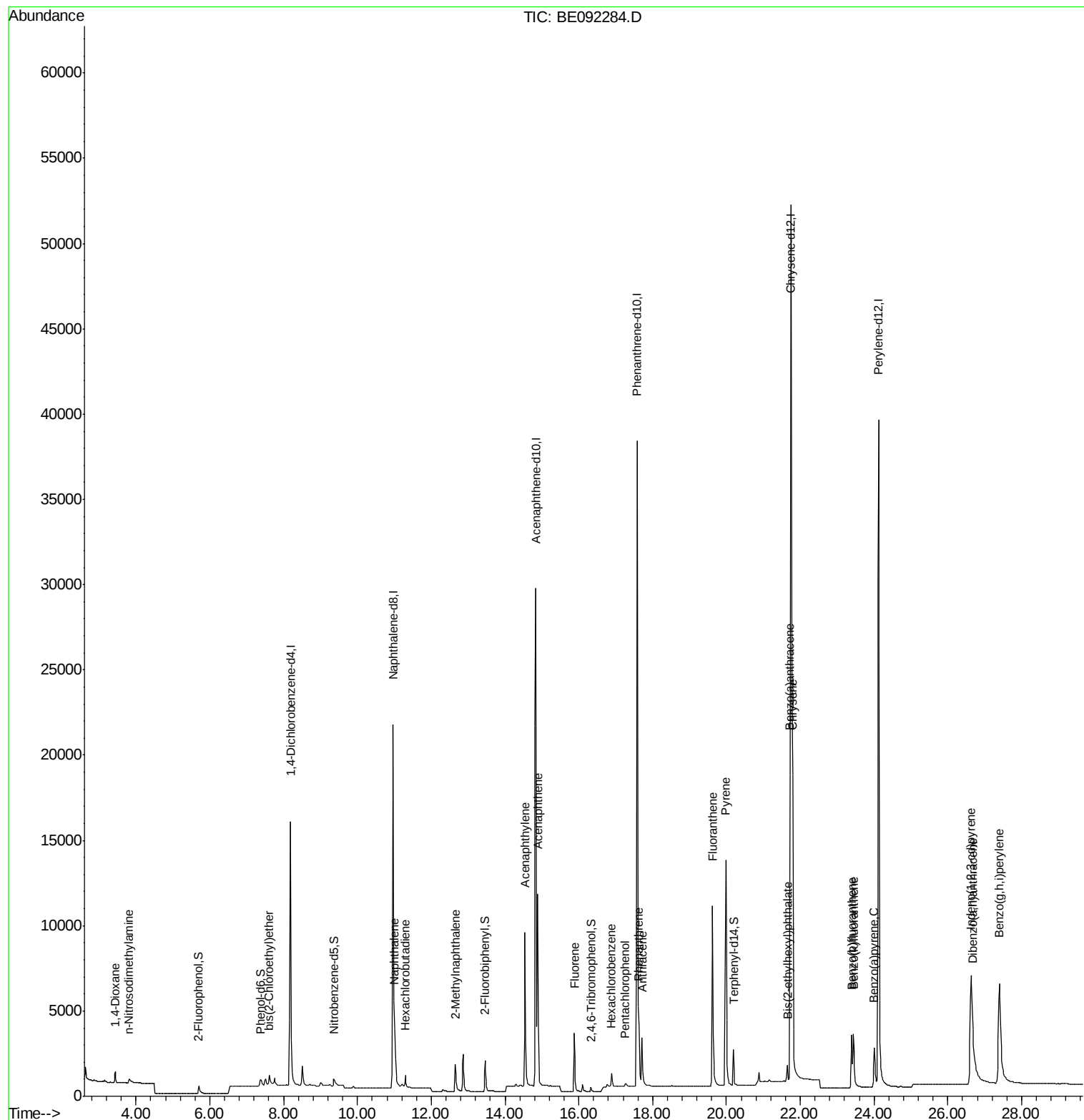
Data Path : Z:\HPCHEM1\BNA E\DATA\BE082916\
Data File : BE092284.D
Acq On : 29 Aug 2016 10:49
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ALS Vial : 2 Sample Multiplier: 1

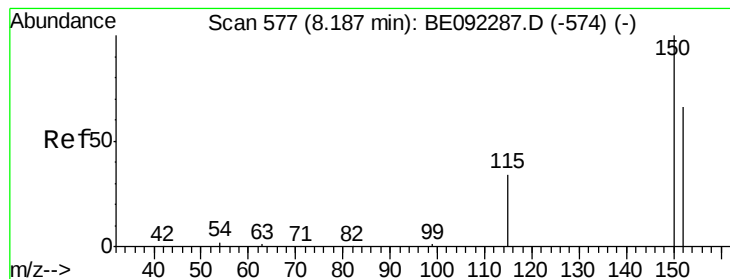
Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4

Quant Time: Aug 29 11:36:31 2016
Quant Title :
QLast Update : Mon Aug 29 18:19:23 2016
Response via : Initial Calibration

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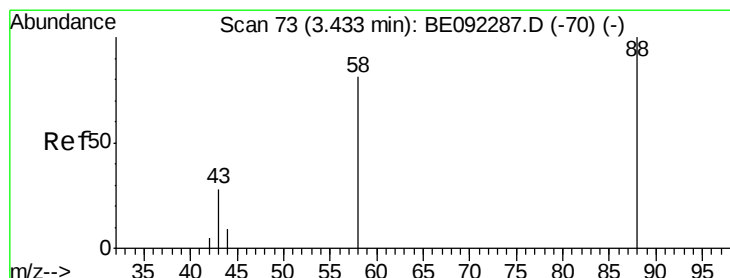
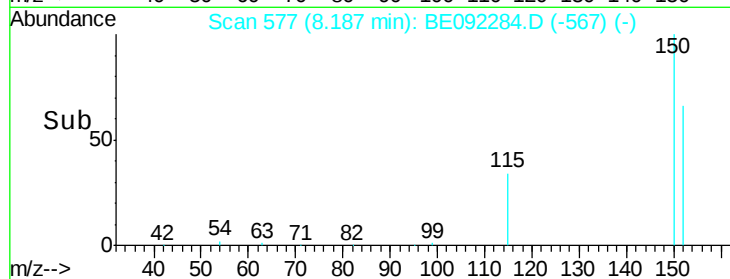
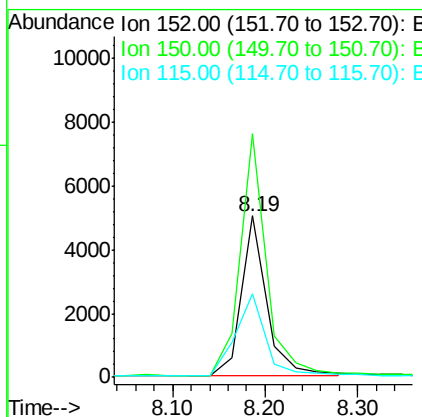
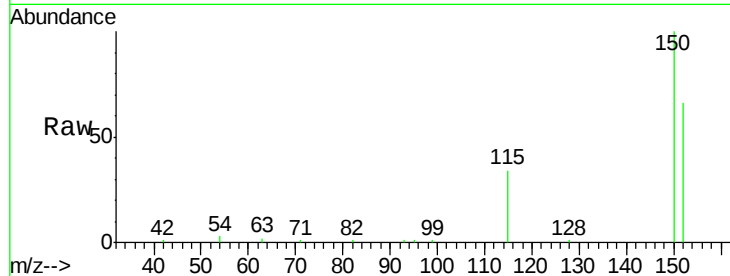
#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 8.19 min Scan# 577
 Delta R.T. 0.02 min
 Lab File: BE092284.D
 Acq: 29 Aug 2016 10:49

Instrument :
 BNA_E
 ClientSampled :
 SSTDCCC0.4

Tot Ion	Ratio	Lower	Upper
152	100		
150	150.9	135.6	203.4
115	52.1	59.4	89.0

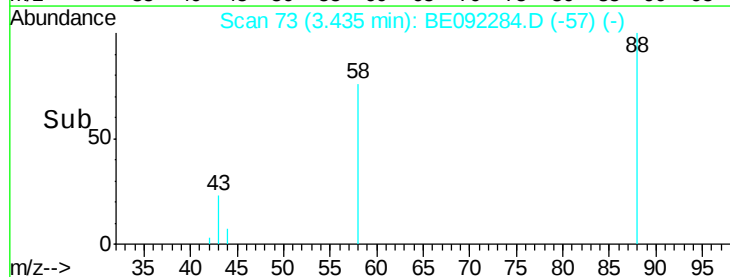
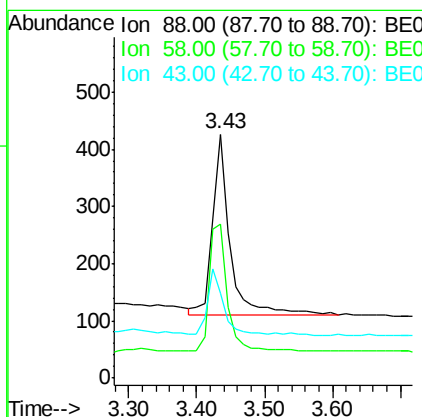
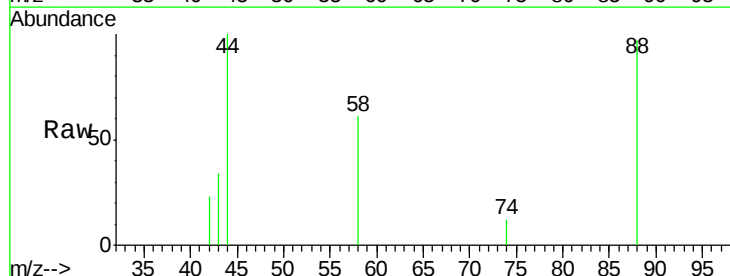
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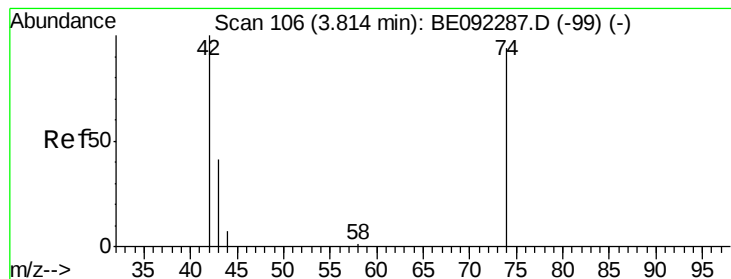
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#2
 1,4-Dioxane
 Concen: 0.45 ng
 RT: 3.43 min Scan# 73
 Delta R.T. -0.01 min
 Lab File: BE092284.D
 Acq: 29 Aug 2016 10:49

Tgt Ion	Ratio	Lower	Upper
88	100		
58	73.2	64.4	96.6
43	34.0	33.4	50.2





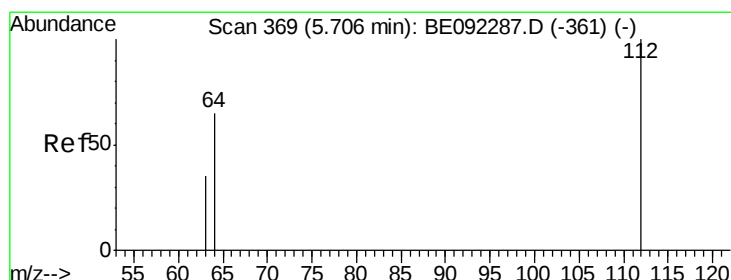
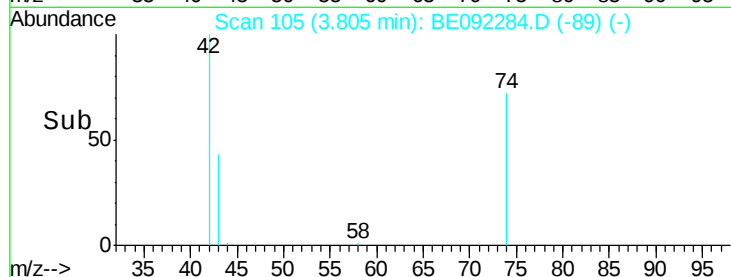
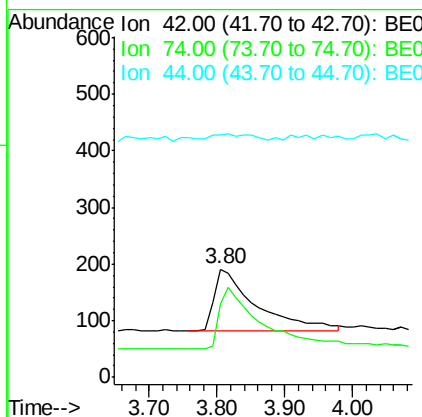
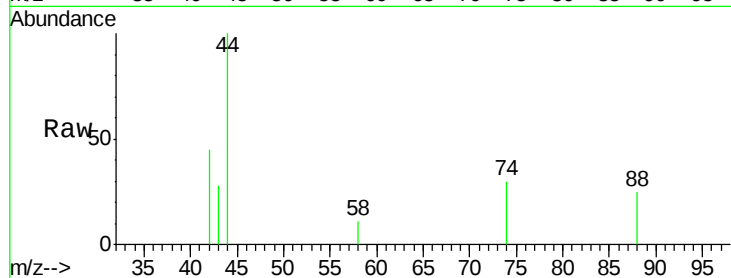
#3
n-Nitrosodimethylamine
Concen: 0.41 ng
RT: 3.80 min Scan# 105
Delta R.T. -0.01 min
Lab File: BE092284.D
Acq: 29 Aug 2016 10:49

Instrument :
BNA_E
ClientSampled :
SSTDCCC0.4

Tot Ion	Ratio	Lower	Upper
42	100		
74	99.2	77.2	115.8
44	8.3	5.0	7.4#

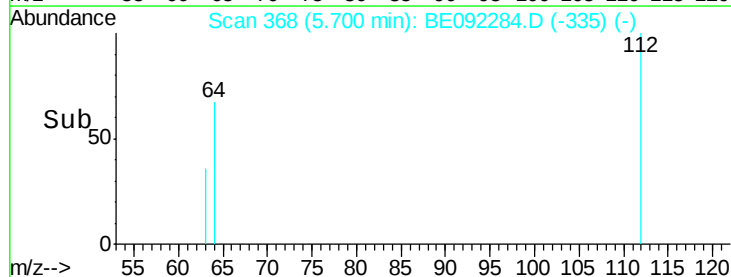
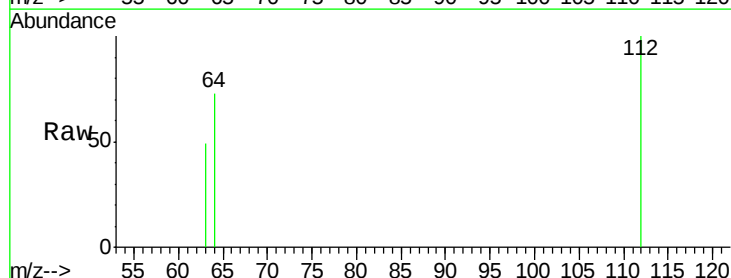
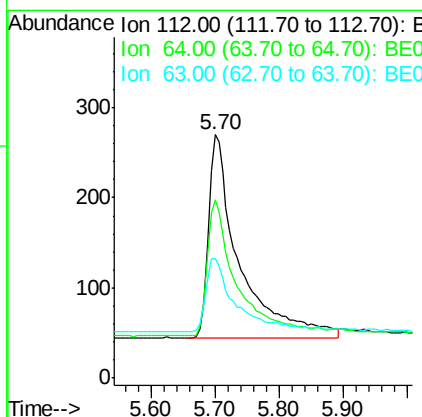
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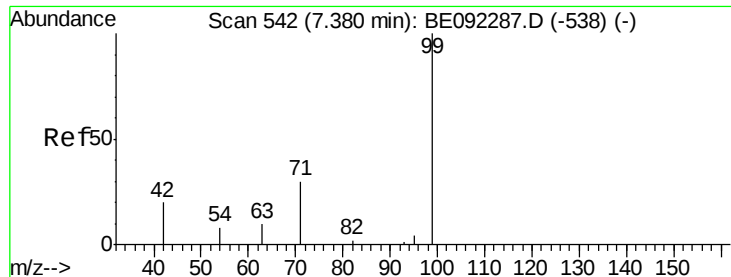
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#4
2-Fluorophenol
Concen: 0.36 ng
RT: 5.70 min Scan# 368
Delta R.T. -0.01 min
Lab File: BE092284.D
Acq: 29 Aug 2016 10:49

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.1	53.2	79.8
63	35.9	27.4	41.2





#5

Phenol-d6

Concen: 0.30 ng

RT: 7.38 min Scan# 542

Delta R.T. 0.02 min

Lab File: BE092284.D

Acq: 29 Aug 2016 10:49

Instrument :

BNA_E

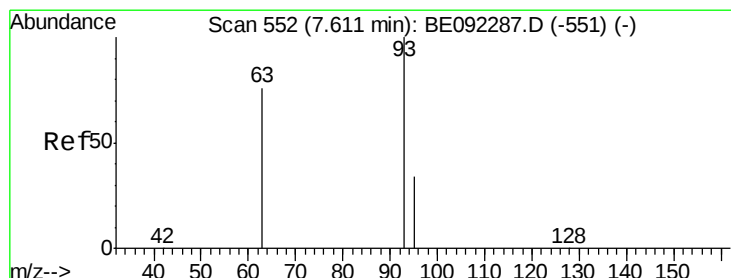
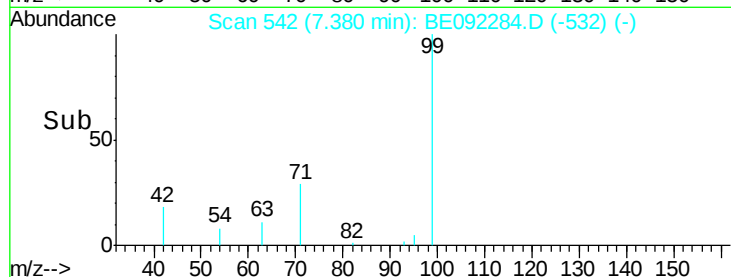
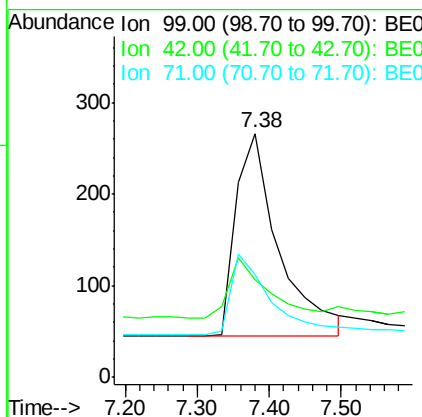
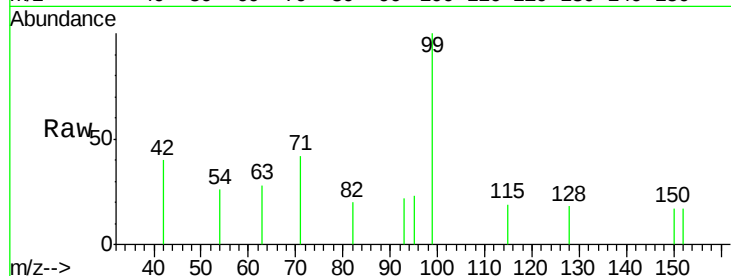
ClientSampleId :

SSTDCCC0.4

Tot Ion	Ratio	Lower	Upper
99	100		
42	0.0	0.0	0.0
71	0.0	29.8	44.8#

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#6

bis(2-Chloroethyl)ether

Concen: 0.30 ng

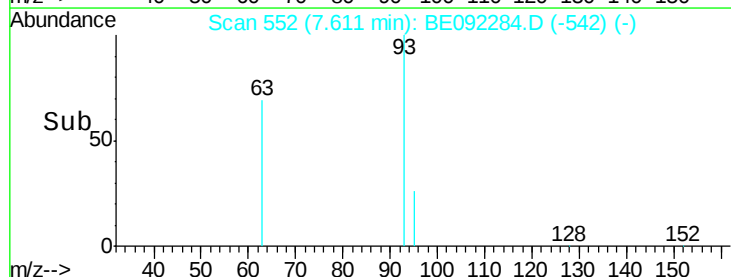
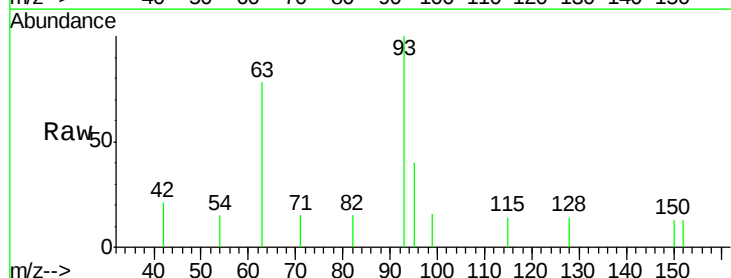
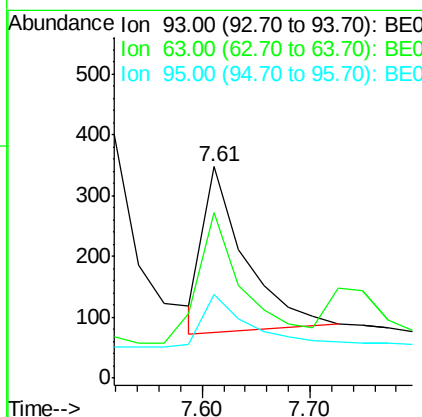
RT: 7.61 min Scan# 552

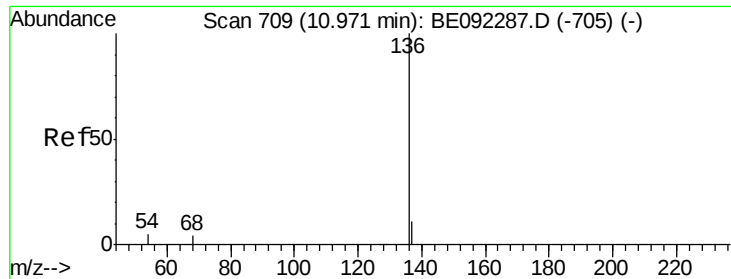
Delta R.T. 0.02 min

Lab File: BE092284.D

Acq: 29 Aug 2016 10:49

Tgt Ion	Ratio	Lower	Upper
93	100		
63	88.9	68.5	102.7
95	36.2	27.2	40.8





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.97 min Scan# 709

Delta R.T. -0.00 min

Lab File: BE092284.D

Acq: 29 Aug 2016 10:49

Instrument :

BNA_E

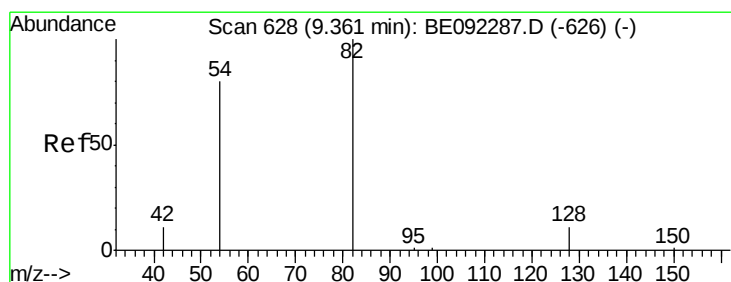
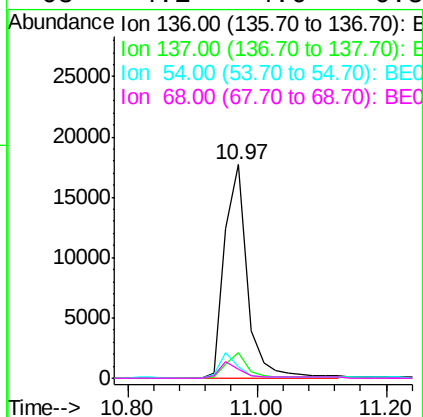
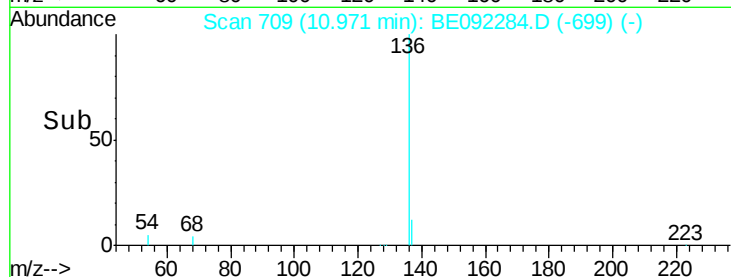
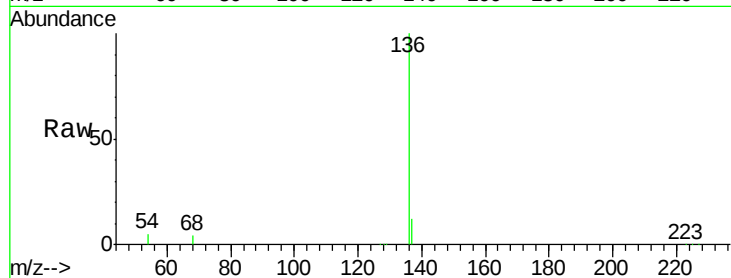
ClientSampled :

SSTDCCC0.4

Tot Ion	Ratio	Lower	Upper
136	100		
137	12.0	8.8	13.2
54	5.4	6.2	9.4#
68	4.1	4.6	6.8#

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#8

Nitrobenzene-d5

Concen: 0.26 ng

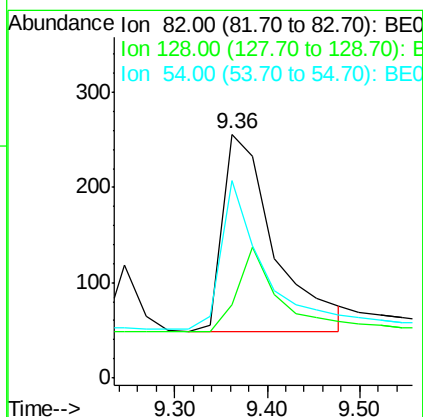
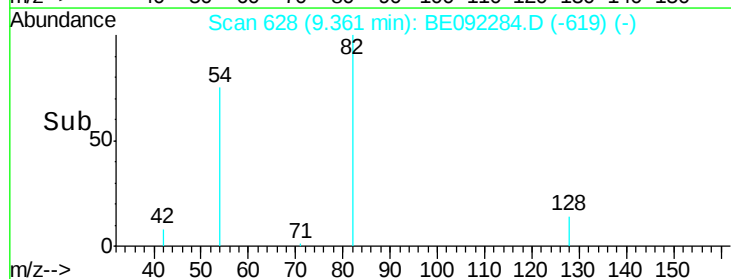
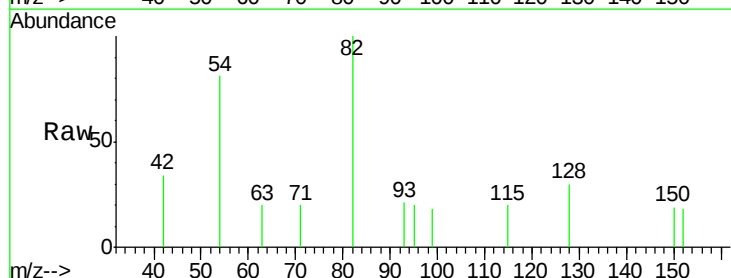
RT: 9.36 min Scan# 628

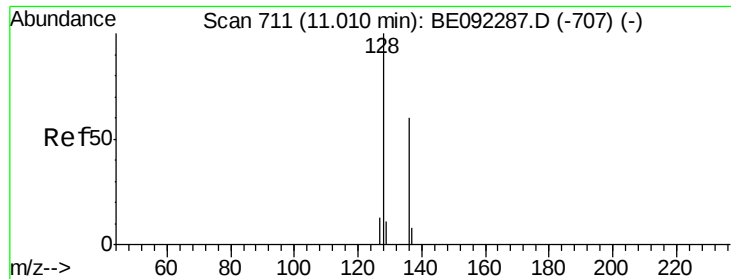
Delta R.T. -0.00 min

Lab File: BE092284.D

Acq: 29 Aug 2016 10:49

Tgt Ion	Ratio	Lower	Upper
82	100		
128	30.1	45.0	67.4#
54	80.9	45.4	68.2#





#9

Naphthalene

Concen: 0.37 ng

RT: 11.01 min Scan# 711

Delta R.T. -0.02 min

Lab File: BE092284.D

Acq: 29 Aug 2016 10:49

Instrument :

BNA_E

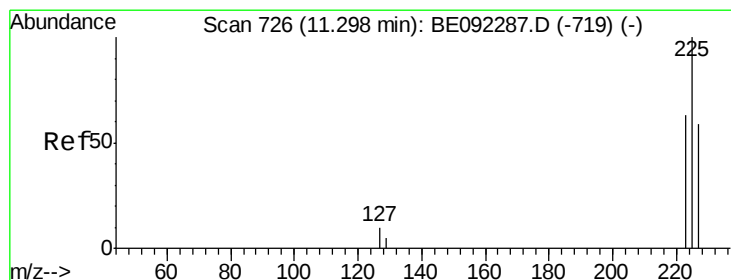
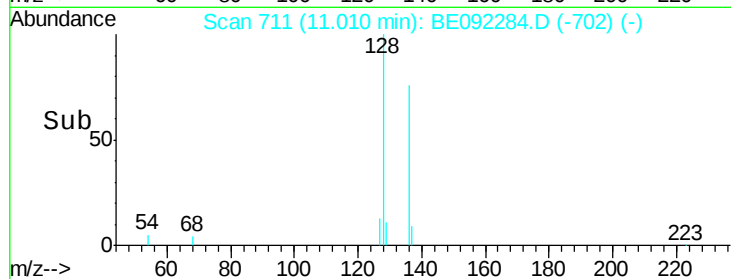
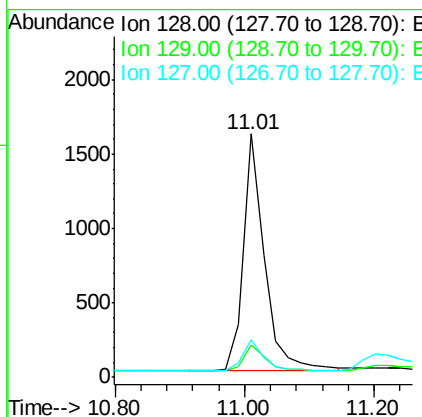
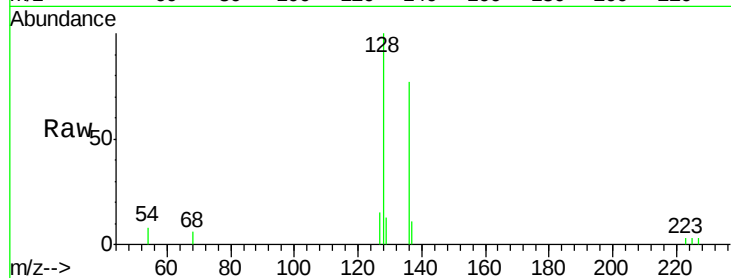
ClientSampleId :

SSTDCCC0.4

Tot Ion:128	Resp:	3539
Ion Ratio	Lower	Upper
128 100		
129 13.4	11.5	17.3
127 15.3	11.0	16.6

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#10

Hexachlorobutadiene

Concen: 0.39 ng

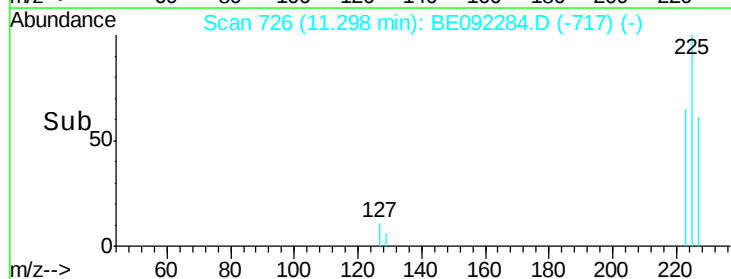
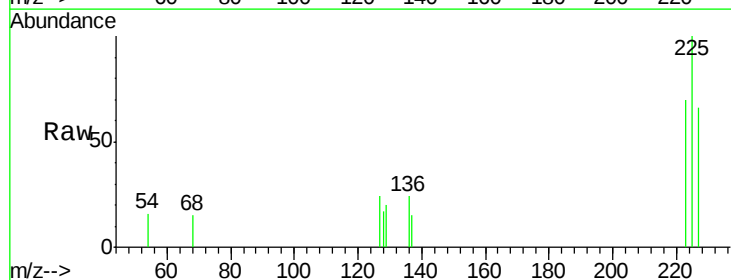
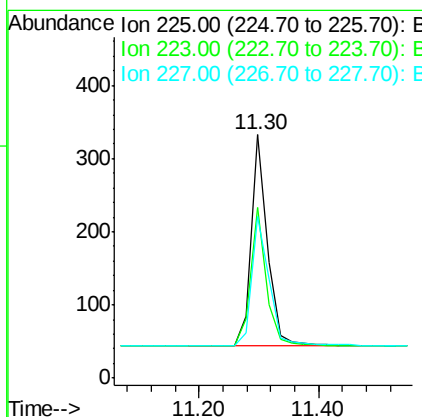
RT: 11.30 min Scan# 726

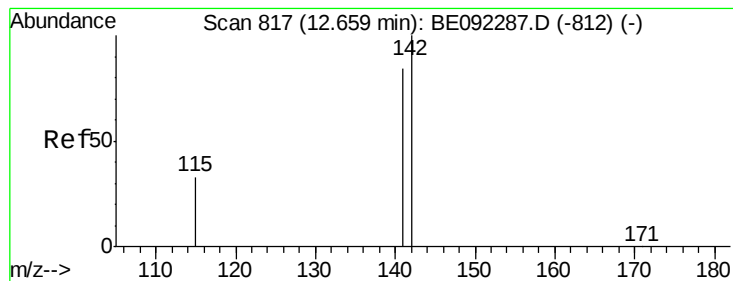
Delta R.T. -0.02 min

Lab File: BE092284.D

Acq: 29 Aug 2016 10:49

Tgt Ion:225	Resp:	544
Ion Ratio	Lower	Upper
225 100		
223 64.7	52.2	78.4
227 63.6	51.0	76.6





#11

2-Methylnaphthalene

Concen: 0.34 ng

RT: 12.66 min Scan# 817

Delta R.T. 0.00 min

Lab File: BE092284.D

Acq: 29 Aug 2016 10:49

Instrument :

BNA_E

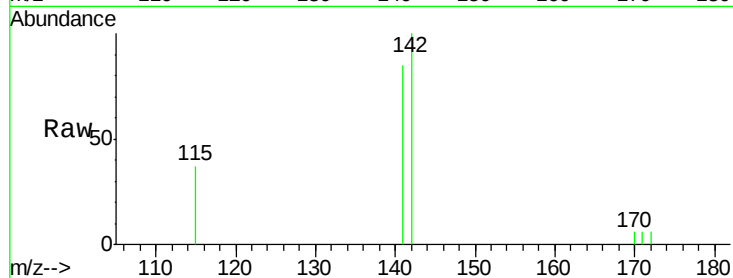
ClientSampled :

SSTDCCC0.4

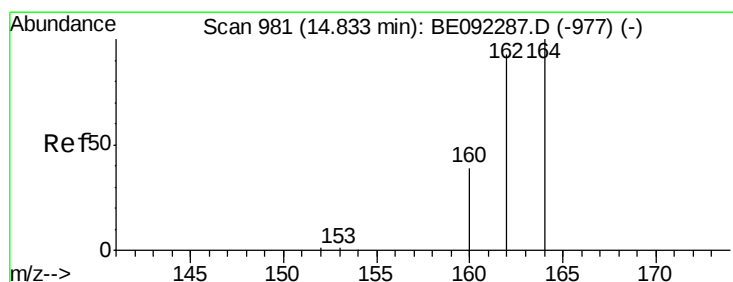
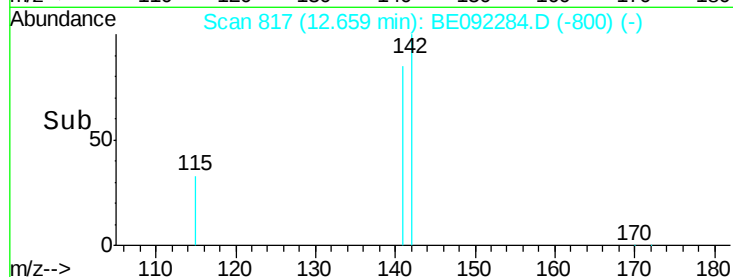
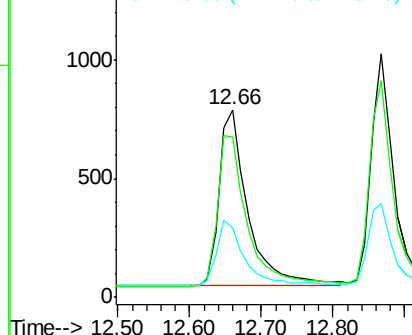
Tot Ion:	142	Resp:	2062
Ion Ratio	Lower	Upper	
142	100		
141	85.3	70.6	105.8
115	37.1	31.0	46.4

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Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E



#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.83 min Scan# 981

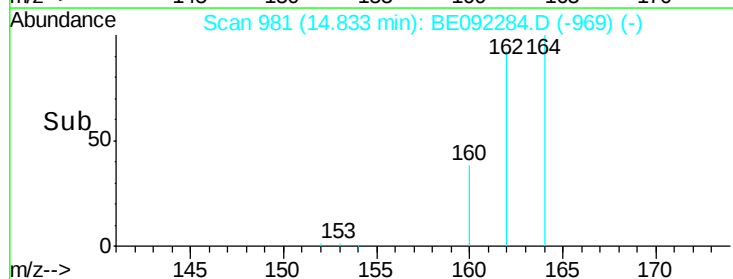
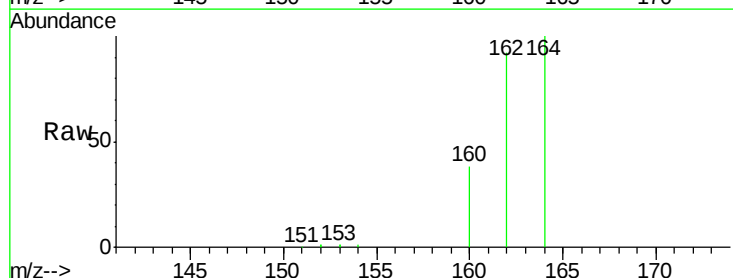
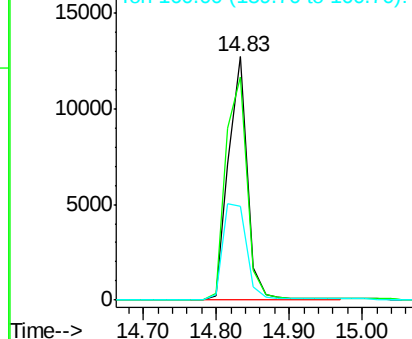
Delta R.T. -0.00 min

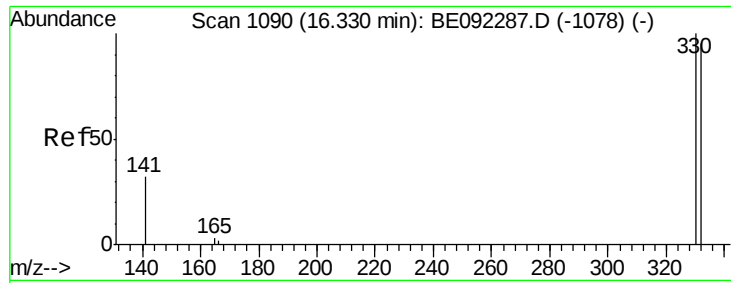
Lab File: BE092284.D

Acq: 29 Aug 2016 10:49

Tgt Ion:	164	Resp:	22674
Ion Ratio	Lower	Upper	
164	100		
162	91.6	83.3	124.9
160	38.4	38.0	57.0

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





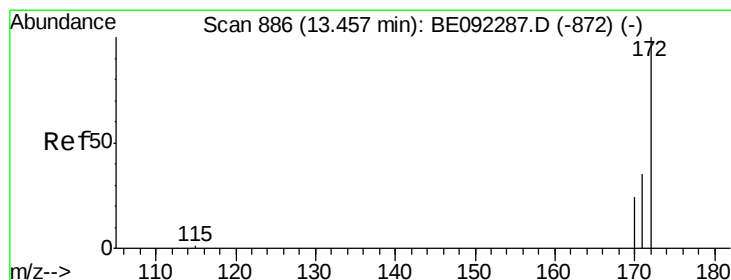
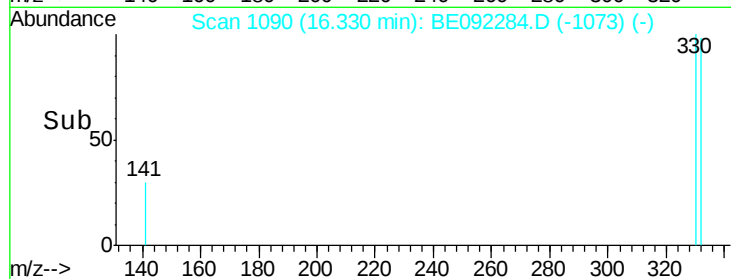
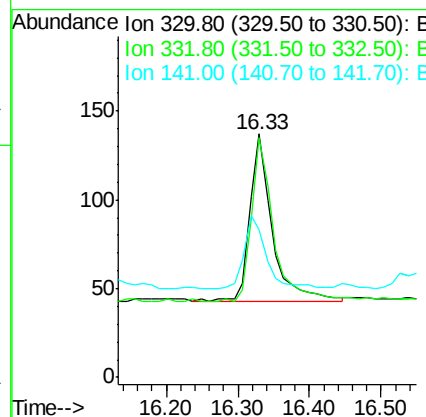
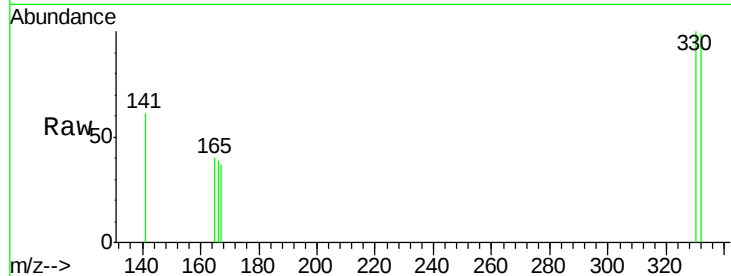
#13
 2,4,6-Tribromophenol
 Concen: 0.47 ng
 RT: 16.33 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: BE092284.D
 Acq: 29 Aug 2016 10:49

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC0.4

Tot Ion	Ratio	Lower	Upper
330	100		
332	98.0	75.4	113.0
141	42.6	37.7	56.5

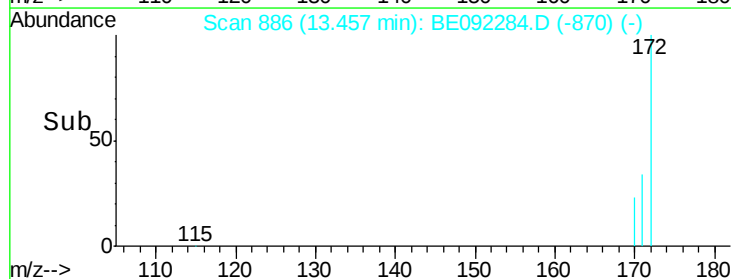
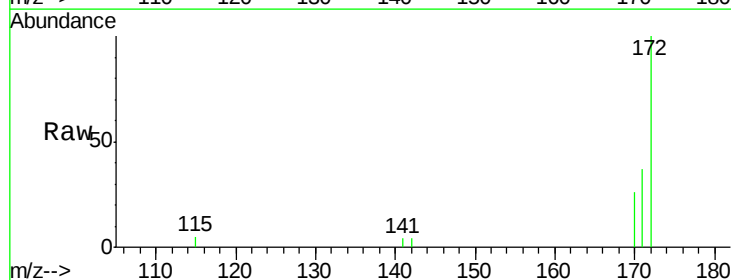
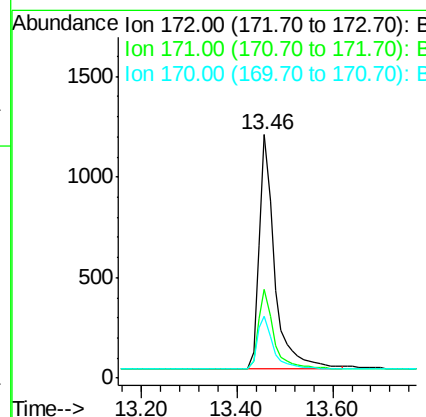
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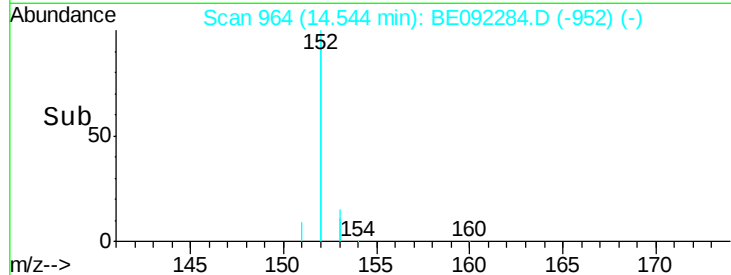
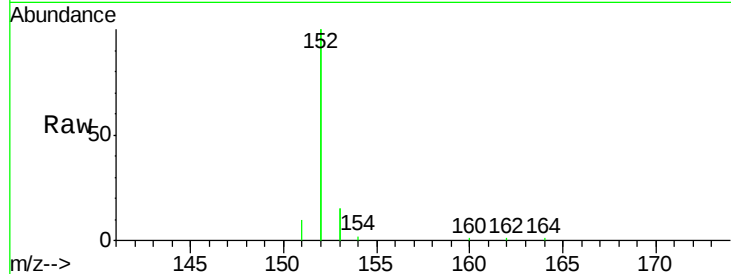
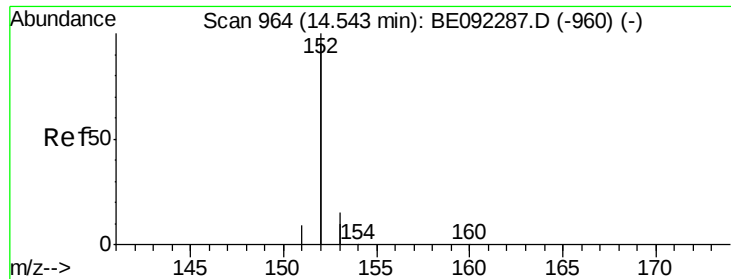
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#14
 2-Fluorobiphenyl
 Concen: 0.37 ng
 RT: 13.46 min Scan# 886
 Delta R.T. -0.01 min
 Lab File: BE092284.D
 Acq: 29 Aug 2016 10:49

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.7	26.8	40.2
170	25.6	17.8	26.6





#15

Acenaphthylene

Concen: 0.35 ng

RT: 14.54 min Scan# 964

Delta R.T. -0.00 min

Lab File: BE092284.D

Acq: 29 Aug 2016 10:49

Tot Ion:	152	Resp:	13622
Ion Ratio	Lower	Upper	
152	100		
151	4.9	3.8	5.8
153	13.3	10.2	15.2

Instrument :

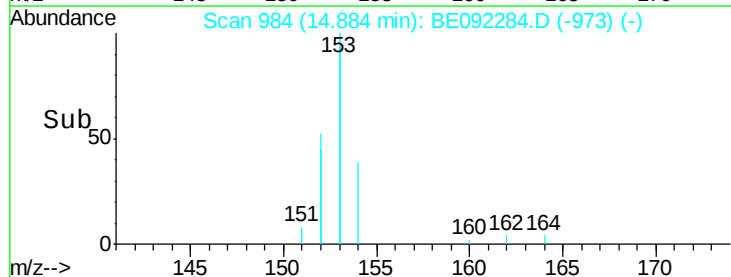
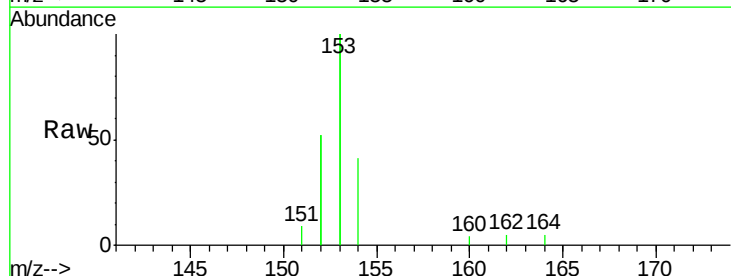
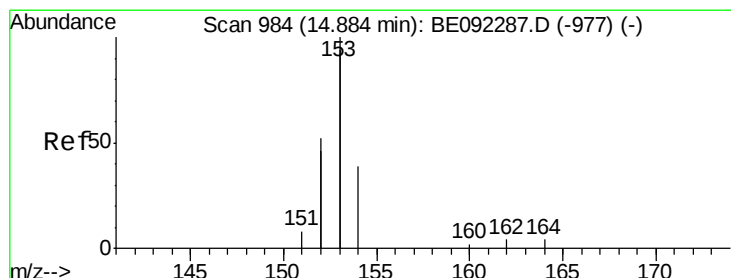
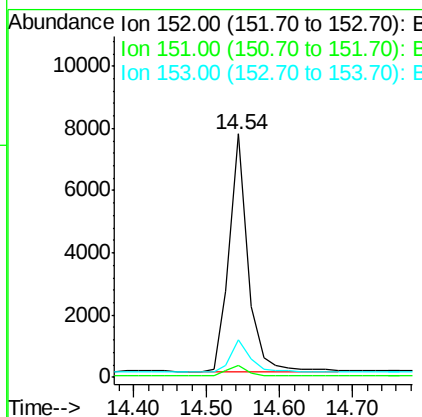
BNA_E

ClientSampled :

SSTDCCC0.4

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#16

Acenaphthene

Concen: 0.36 ng

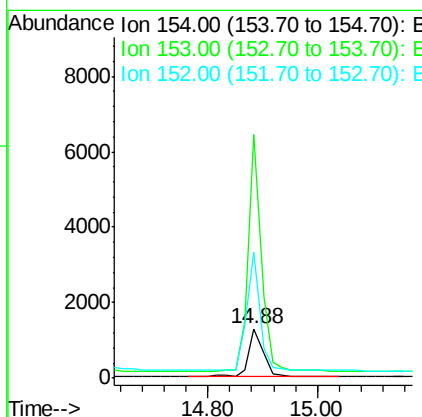
RT: 14.88 min Scan# 984

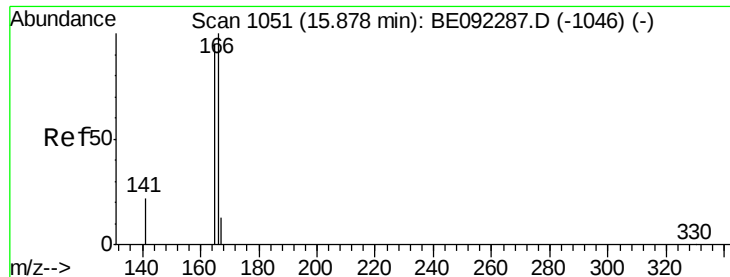
Delta R.T. -0.02 min

Lab File: BE092284.D

Acq: 29 Aug 2016 10:49

Tgt Ion:	154	Resp:	2286
Ion Ratio	Lower	Upper	
154	100		
153	447.6	355.0	532.4
152	231.3	179.7	269.5





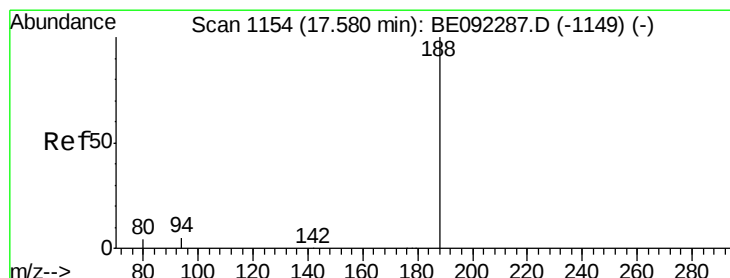
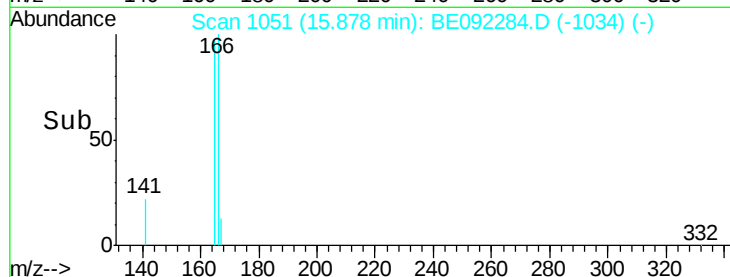
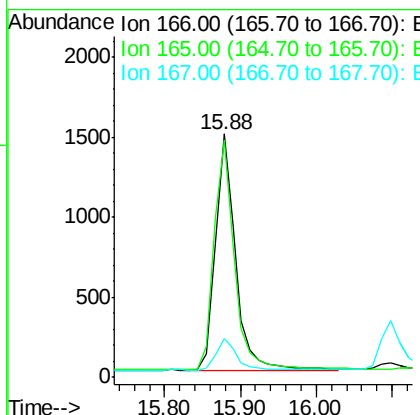
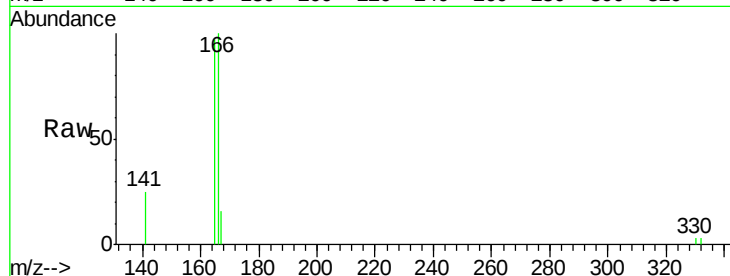
#17
Fluorene
 Concen: 0.36 ng
 RT: 15.88 min Scan# 1051
 Delta R.T. 0.00 min
 Lab File: BE092284.D
 Acq: 29 Aug 2016 10:49

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC0.4

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.8	80.1	120.1
167	13.3	10.6	16.0

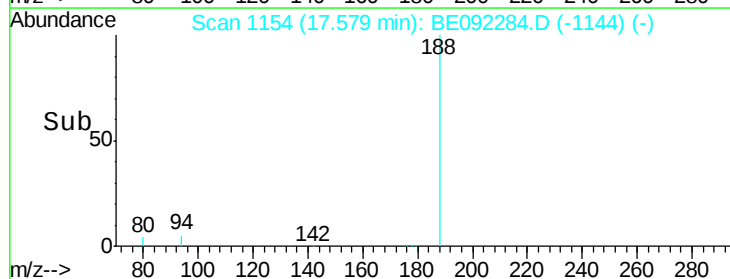
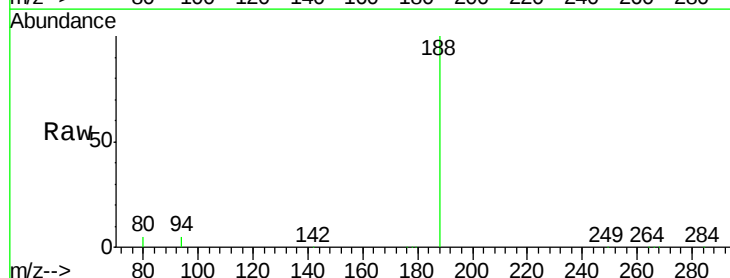
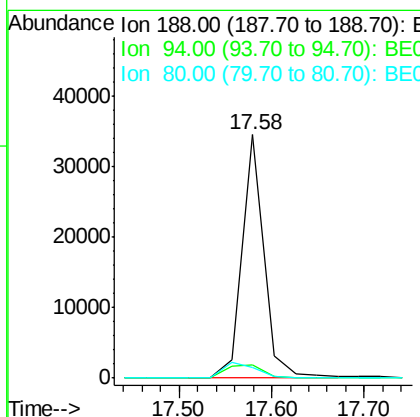
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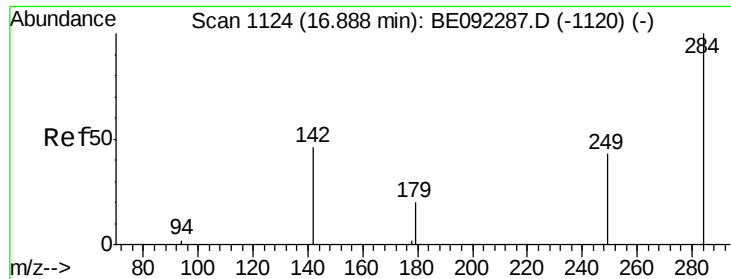
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#18
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.58 min Scan# 1154
 Delta R.T. 0.02 min
 Lab File: BE092284.D
 Acq: 29 Aug 2016 10:49

Tgt Ion	Ratio	Lower	Upper
188	100		
94	5.3	9.2	13.8#
80	4.6	9.1	13.7#





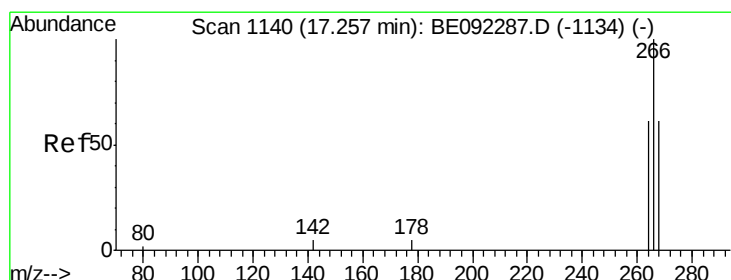
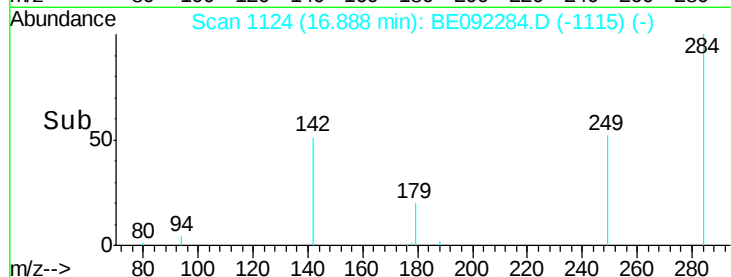
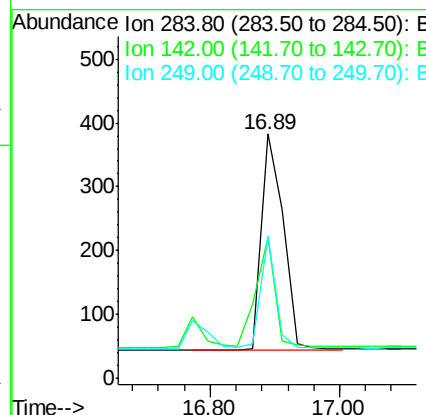
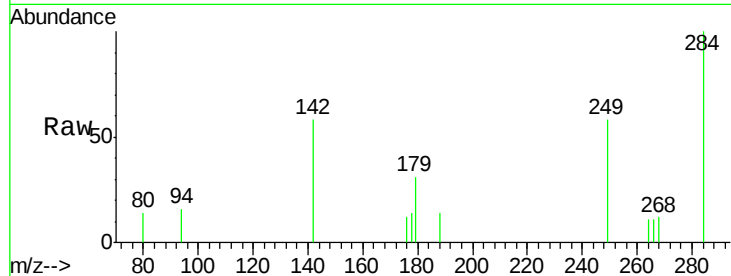
#19
Hexachlorobenzene
Concen: 0.35 ng
RT: 16.89 min Scan# 1124
Delta R.T. -0.00 min
Lab File: BE092284.D
Acq: 29 Aug 2016 10:49

Instrument :
BNA_E
ClientSampled :
SSTDCCC0.4

Tot Ion	Ratio	Resp	Lower	Upper
284	100			
142	42.9	0.0	0.0	0.0
249	36.0	0.0	0.0	0.0

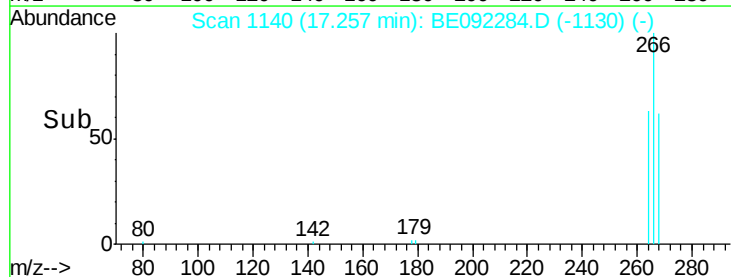
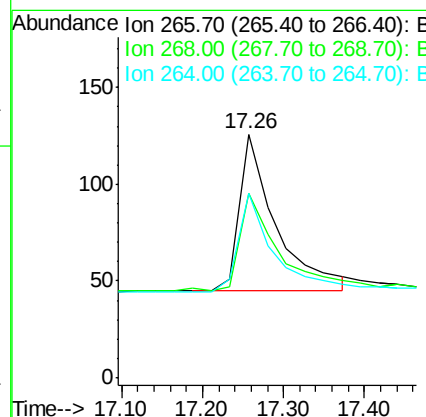
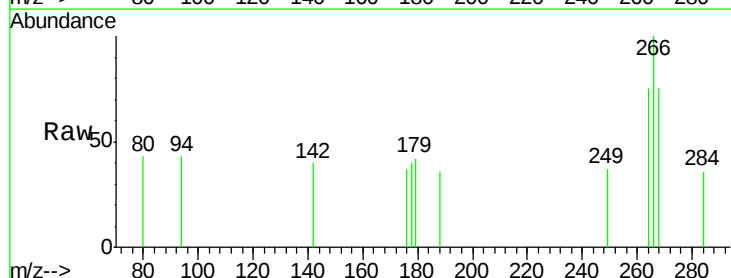
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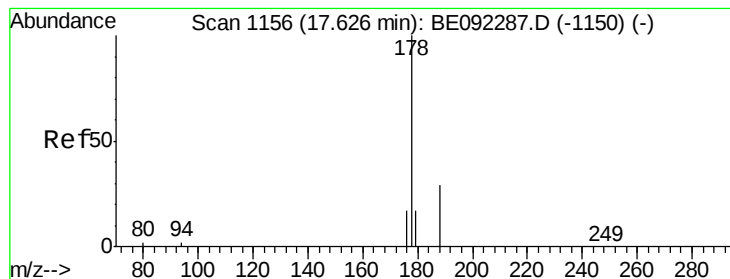
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#20
Pentachlorophenol
Concen: 0.51 ng
RT: 17.26 min Scan# 1140
Delta R.T. 0.02 min
Lab File: BE092284.D
Acq: 29 Aug 2016 10:49

Tgt Ion	Ratio	Resp	Lower	Upper
266	100			
268	75.4	62.3	93.5	
264	75.4	67.4	101.0	





#21

Phenanthrene

Concen: 0.32 ng

RT: 17.63 min Scan# 1156

Delta R.T. 0.02 min

Lab File: BE092284.D

Acq: 29 Aug 2016 10:49

Instrument :

BNA_E

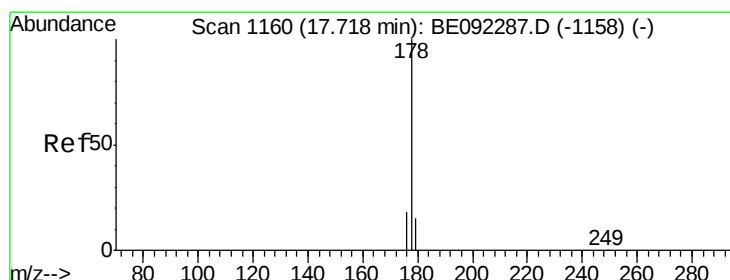
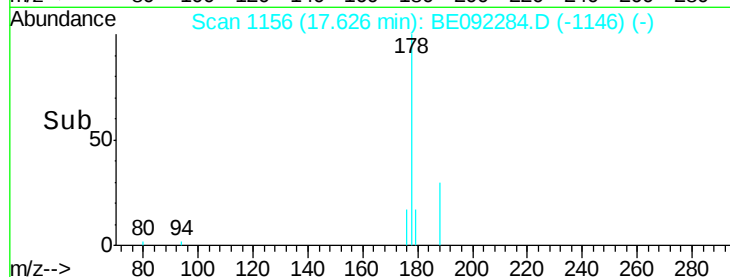
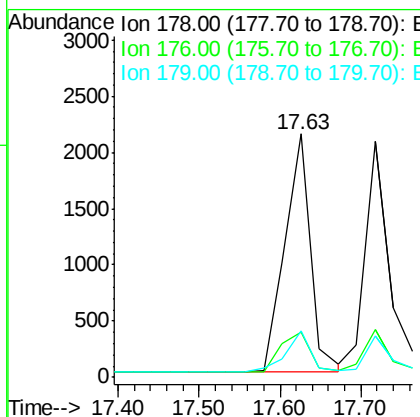
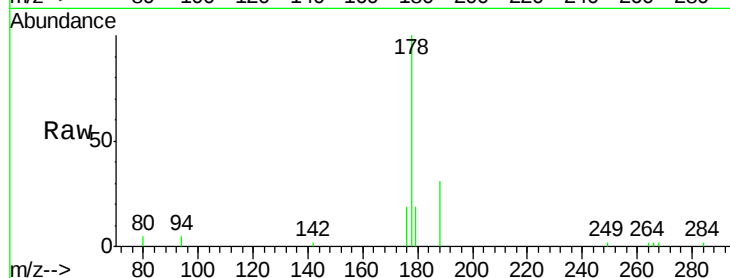
ClientSampleId :

SSTDCCC0.4

Tot Ion:	178	Resp:	4654
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.1	22.7
179	16.4	12.9	19.3

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#22

Anthracene

Concen: 0.31 ng

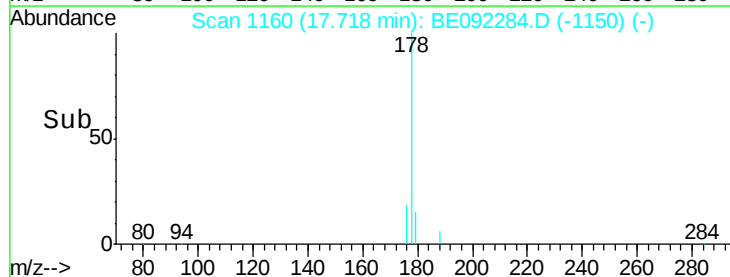
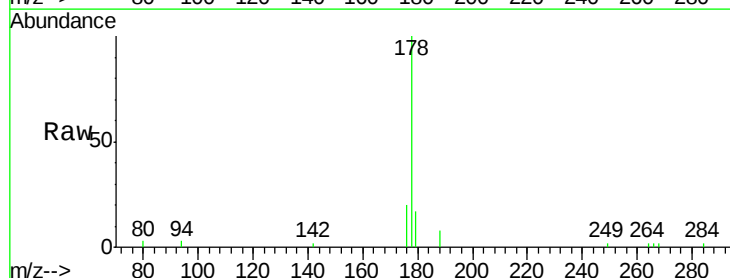
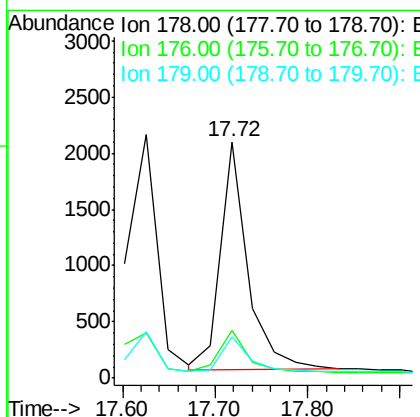
RT: 17.72 min Scan# 1160

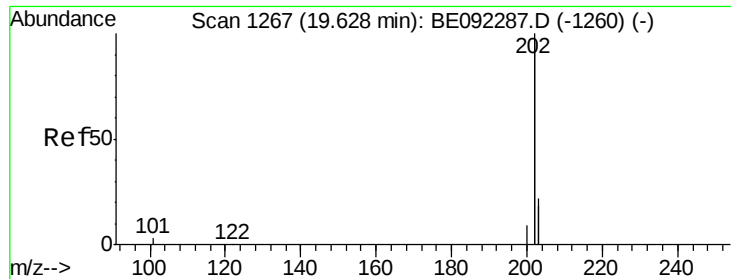
Delta R.T. 0.02 min

Lab File: BE092284.D

Acq: 29 Aug 2016 10:49

Tgt Ion:	178	Resp:	4196
Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.4
179	15.2	12.0	18.0





#23

Fluoranthene

Concen: 0.34 ng

RT: 19.63 min Scan# 1267

Delta R.T. 0.00 min

Lab File: BE092284.D

Acq: 29 Aug 2016 10:49

Instrument :

BNA_E

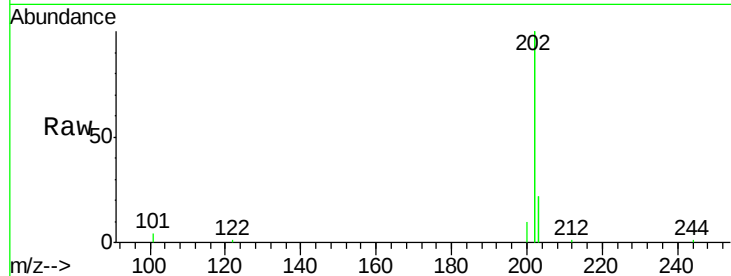
ClientSampleId :

SSTDCCC0.4

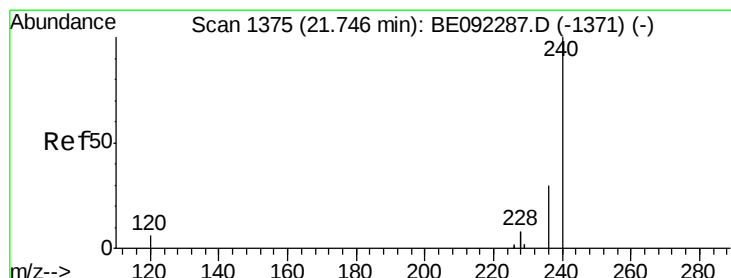
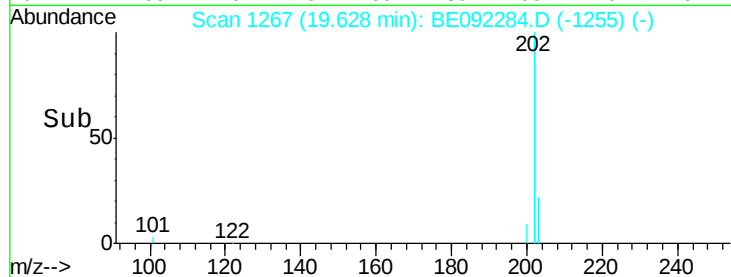
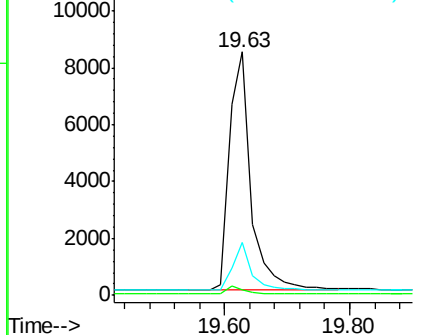
Tot Ion:	202	Resp:	20173
Ion Ratio	Lower	Upper	
202	100		
101	2.8	2.2	3.4
203	17.3	13.7	20.5

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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



#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.75 min Scan# 1375

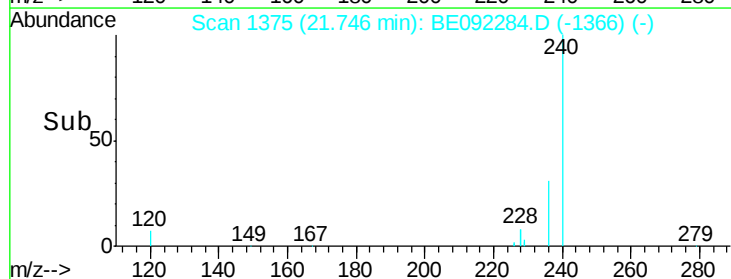
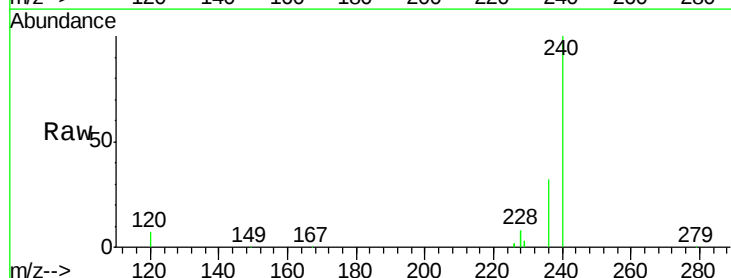
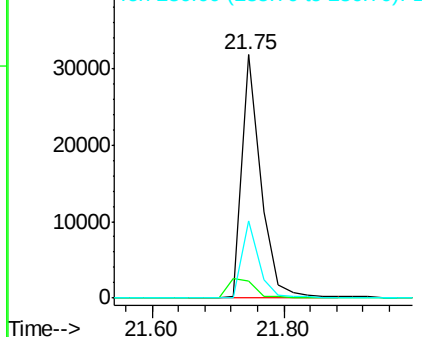
Delta R.T. -0.00 min

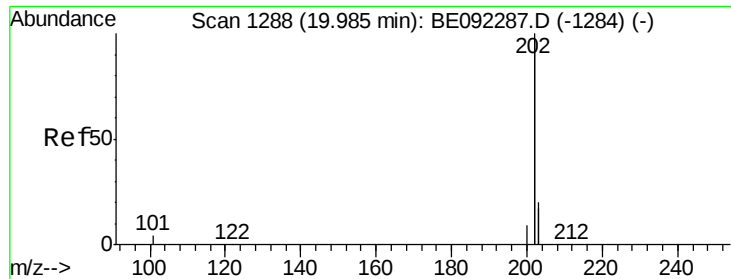
Lab File: BE092284.D

Acq: 29 Aug 2016 10:49

Tgt Ion:	240	Resp:	62833
Ion Ratio	Lower	Upper	
240	100		
120	7.0	1.2	1.8#
236	31.5	17.1	25.7#

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





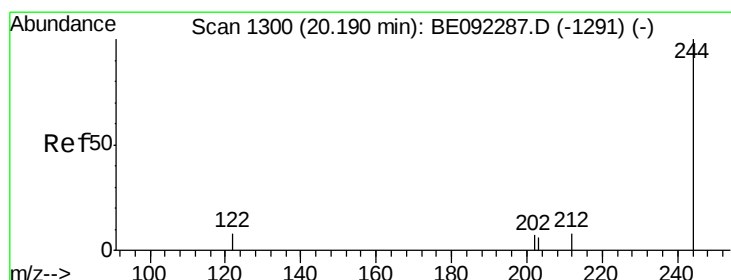
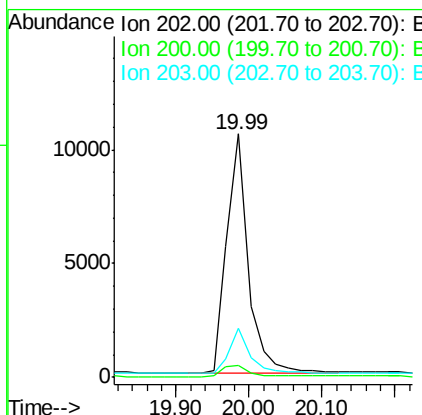
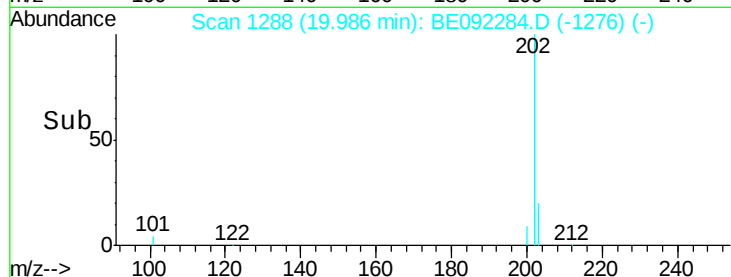
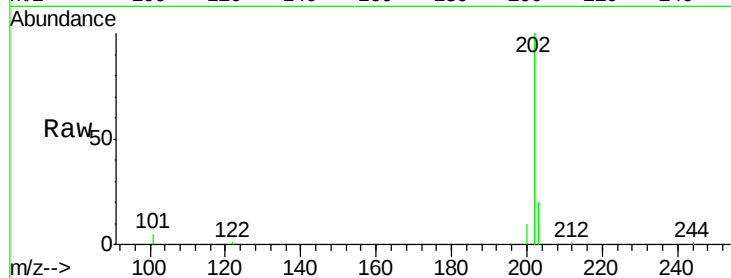
#25
Pvrene
Concen: 0.29 ng
RT: 19.99 min Scan# 1288
Delta R.T. 0.00 min
Lab File: BE092284.D
Acq: 29 Aug 2016 10:49

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4

Tot Ion	Ratio	Lower	Upper
202	100		
200	5.4	4.2	6.4
203	17.3	14.0	21.0

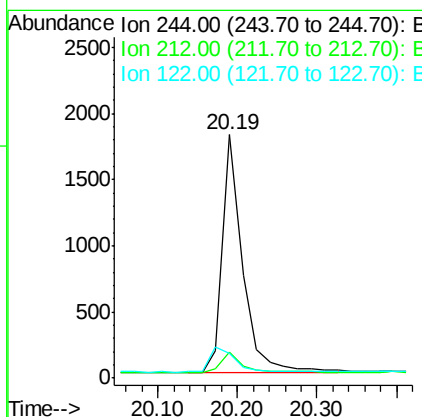
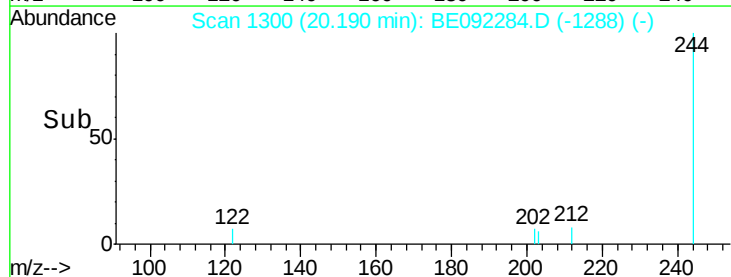
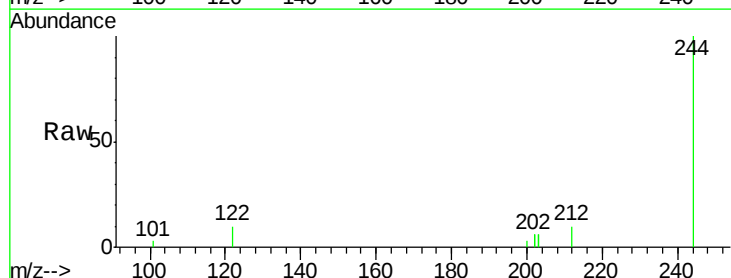
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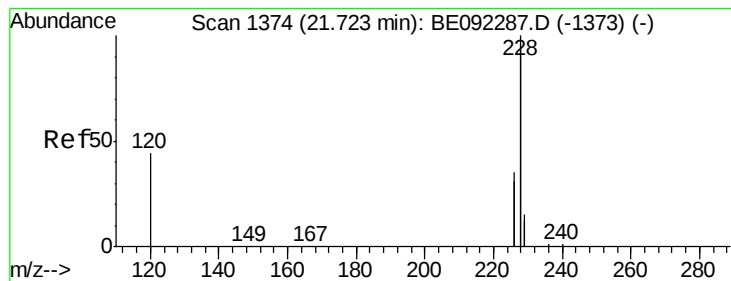
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#26
Terphenyl-d14
Concen: 0.30 ng
RT: 20.19 min Scan# 1300
Delta R.T. 0.00 min
Lab File: BE092284.D
Acq: 29 Aug 2016 10:49

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.5	10.2	15.2
122	10.0	15.9	23.9#





#27

Benzo(a)anthracene

Concen: 0.29 ng m

RT: 21.72 min Scan# 1374

Delta R.T. -0.00 min

Lab File: BE092284.D

Acq: 29 Aug 2016 10:49

Instrument :

BNA_E

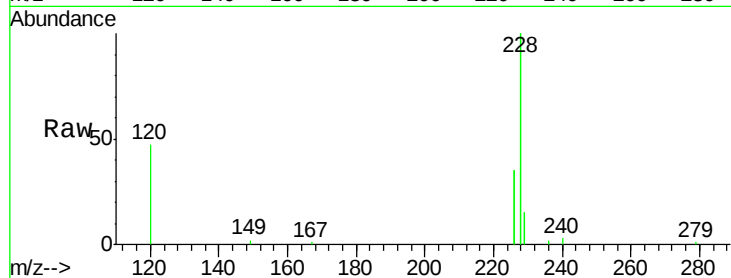
ClientSampled :

SSTDCCC0.4

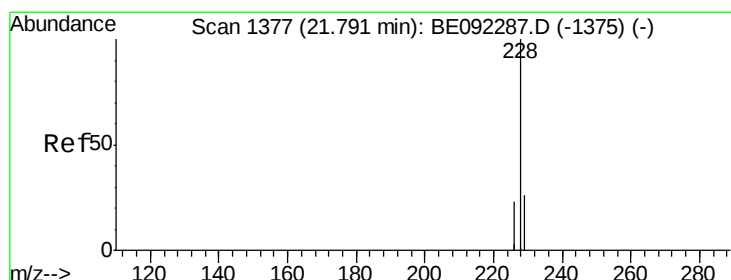
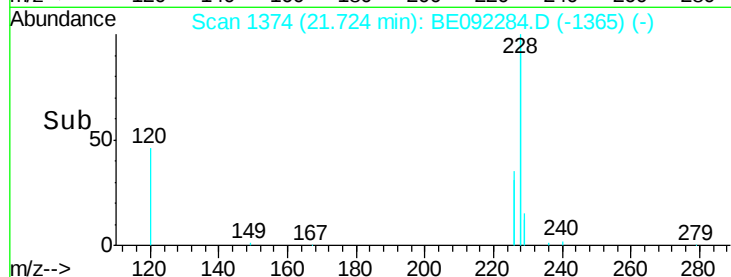
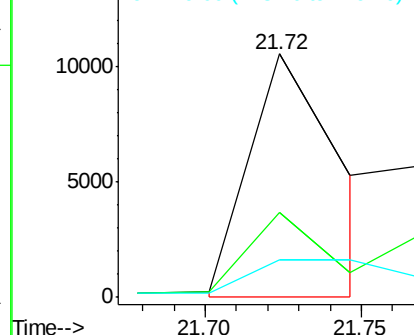
Tot Ion:	228	Resp:	21532
Ion Ratio	Lower	Upper	
228	100		
226	34.8	15.9	23.9#
229	15.3	22.4	33.6#

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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#28

Chrysene

Concen: 0.39 ng m

RT: 21.79 min Scan# 1377

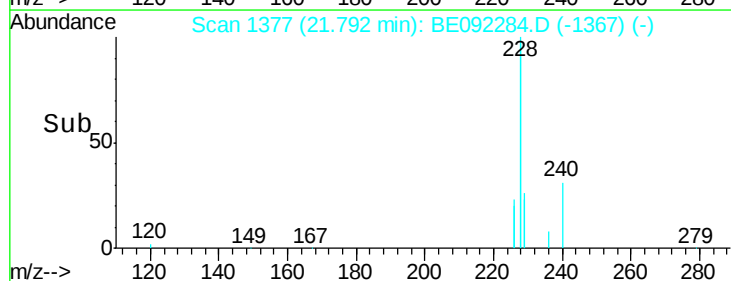
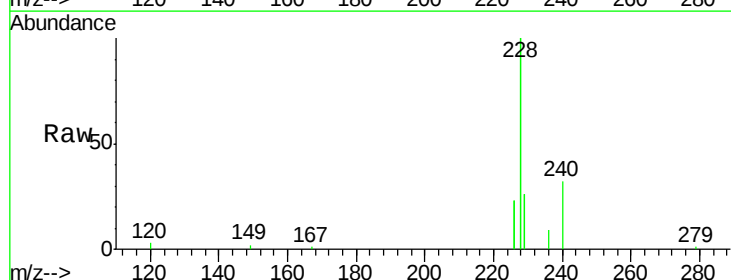
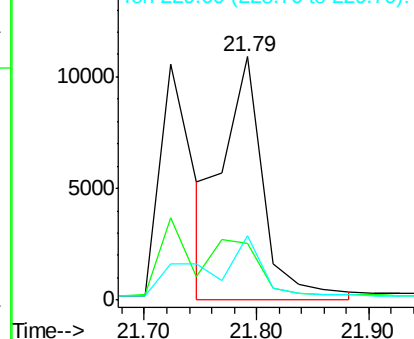
Delta R.T. 0.02 min

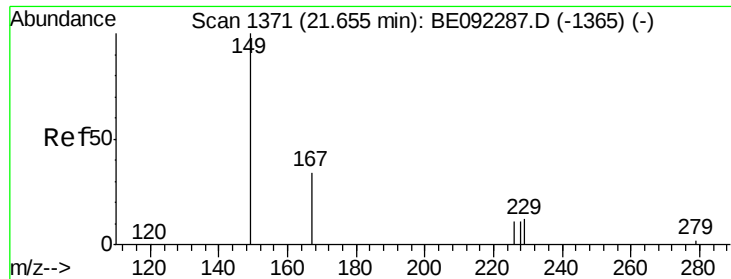
Lab File: BE092284.D

Acq: 29 Aug 2016 10:49

Tgt Ion:	228	Resp:	26915
Ion Ratio	Lower	Upper	
228	100		
226	23.1	18.3	27.5
229	26.3	18.6	27.8

Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





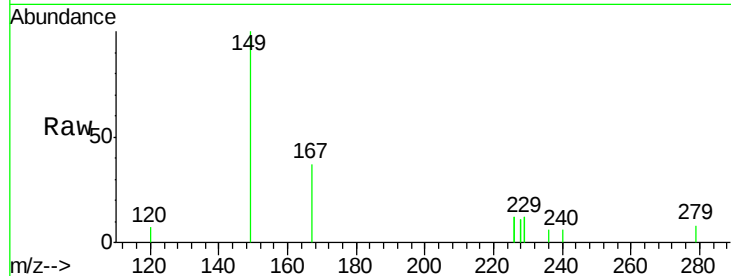
#29
 Bis(2-ethylhexyl)phthalate
 Concen: 0.34 ng
 RT: 21.66 min Scan# 1371
 Delta R.T. 0.02 min
 Lab File: BE092284.D
 Acq: 29 Aug 2016 10:49

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC0.4

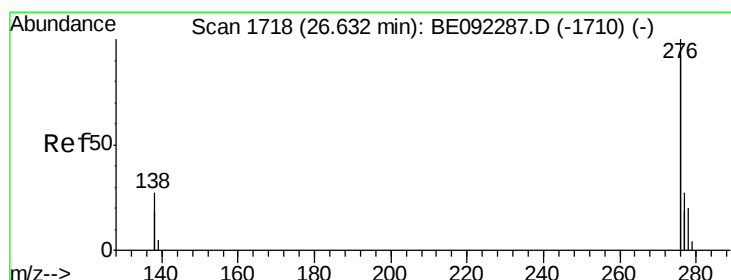
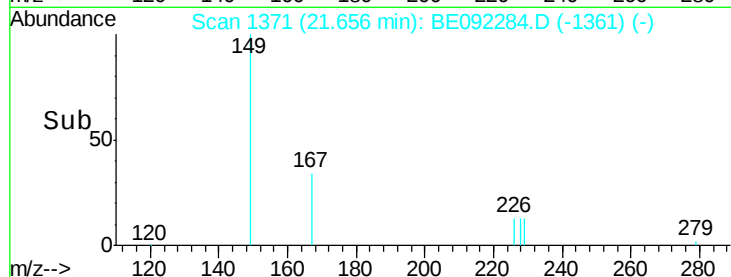
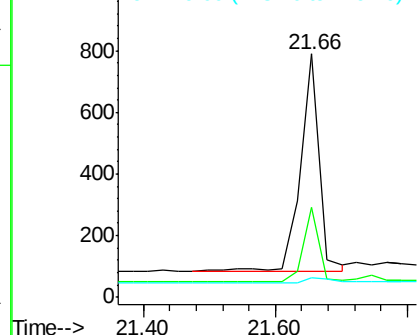
Tot Ion	Ratio	Lower	Upper
149	100		
167	28.4	22.1	33.1
279	3.1	0.0	0.0

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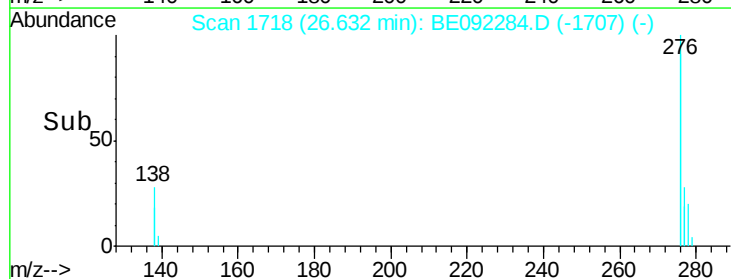
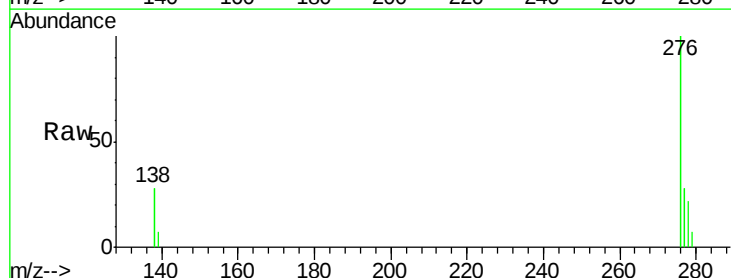
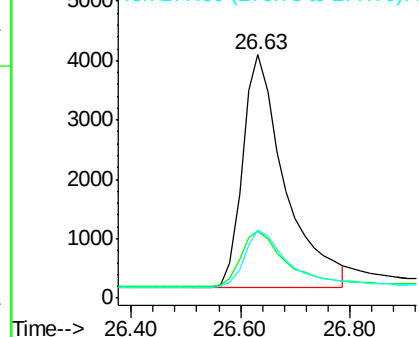
Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 279.00 (278.70 to 279.70): E

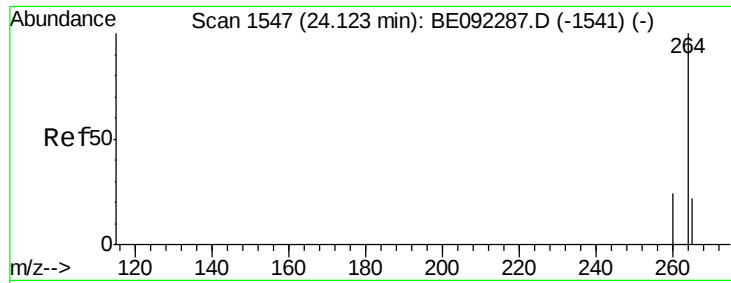


#30
 Indeno(1,2,3-cd)pyrene
 Concen: 0.28 ng
 RT: 26.63 min Scan# 1718
 Delta R.T. -0.02 min
 Lab File: BE092284.D
 Acq: 29 Aug 2016 10:49

Tgt Ion	Ratio	Lower	Upper
276	100		
138	25.5	21.3	31.9
277	24.7	19.7	29.5

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





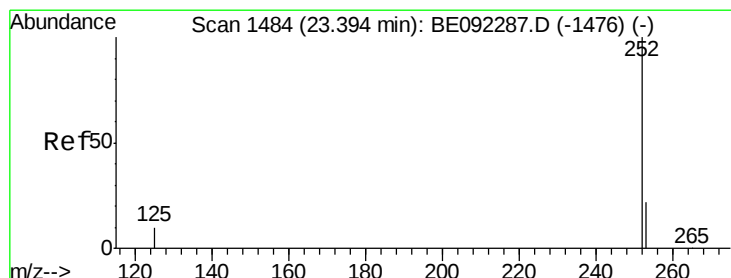
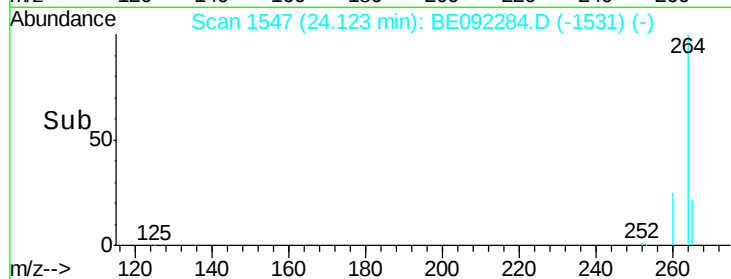
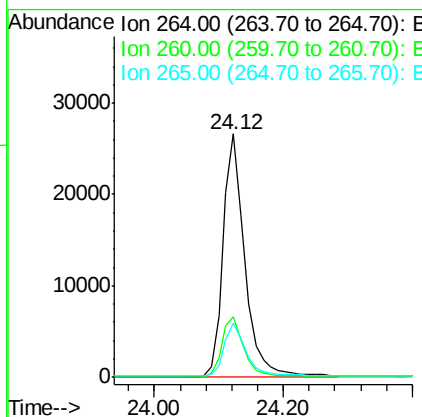
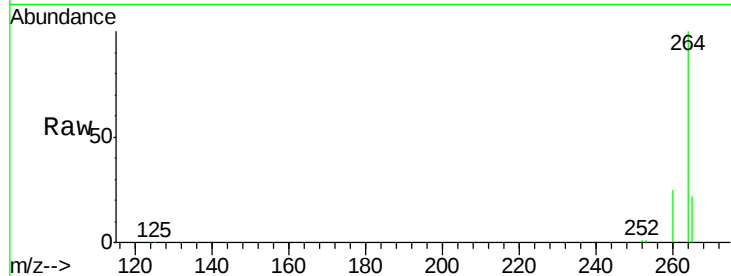
#31
Pervlene-d12
Concen: 5.00 ng
RT: 24.12 min Scan# 1547
Delta R.T. -0.01 min
Lab File: BE092284.D
Acq: 29 Aug 2016 10:49

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.5	29.3
265	22.3	18.2	27.4

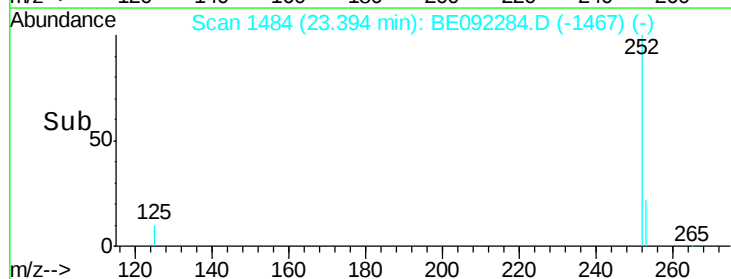
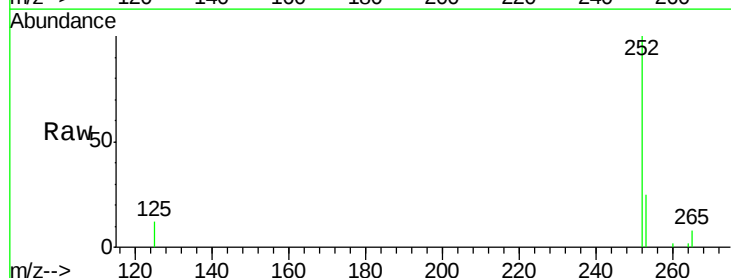
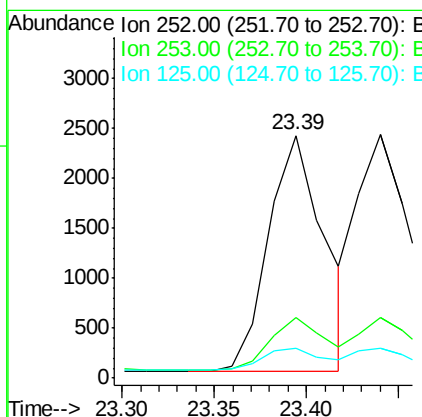
Manual Integrations
APPROVED

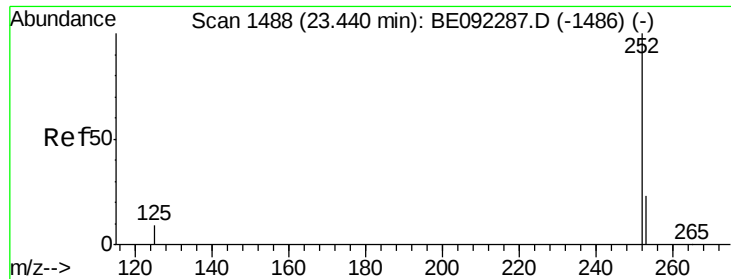
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#32
Benzo(b)fluoranthene
Concen: 0.30 ng
RT: 23.39 min Scan# 1484
Delta R.T. -0.00 min
Lab File: BE092284.D
Acq: 29 Aug 2016 10:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.0	19.0	28.4
125	12.4	10.3	15.5





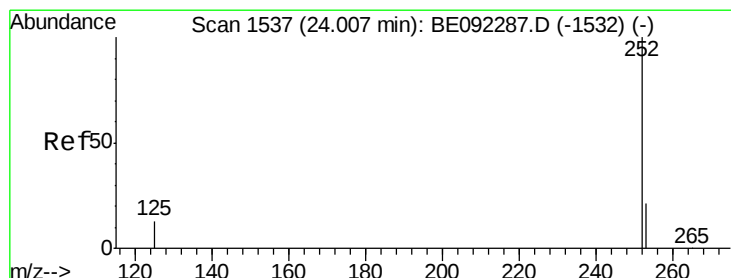
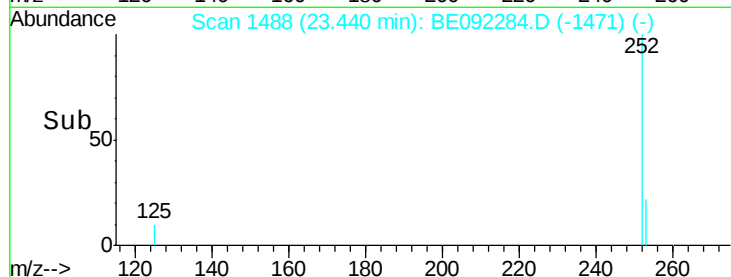
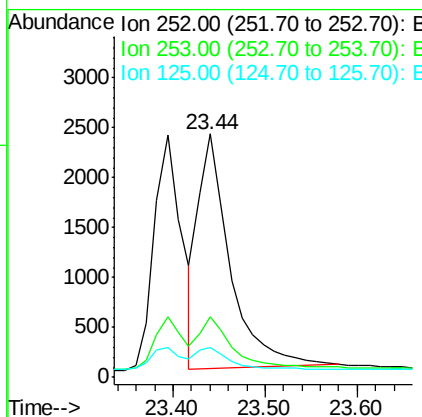
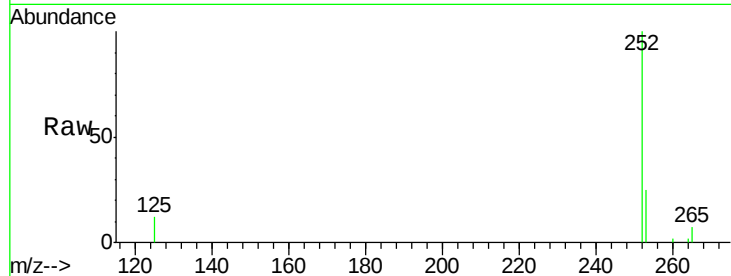
#33
Benzo(k)fluoranthene
Concen: 0.34 ng
RT: 23.44 min Scan# 1488
Delta R.T. -0.00 min
Lab File: BE092284.D
Acq: 29 Aug 2016 10:49

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.0	19.0	28.6
125	12.4	10.6	15.8

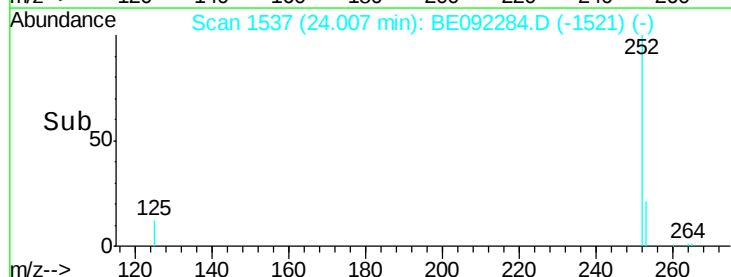
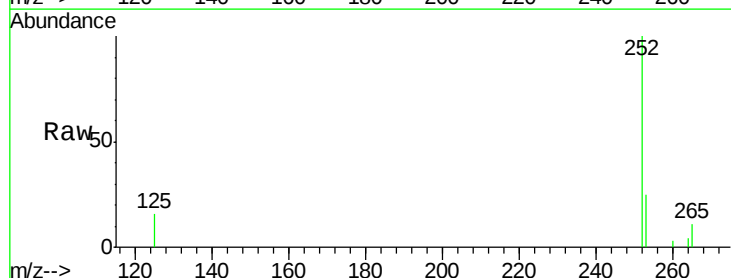
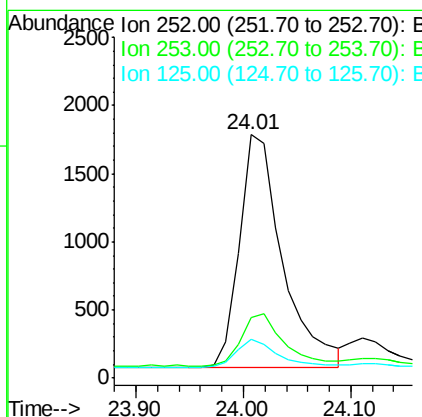
Manual Integrations
APPROVED

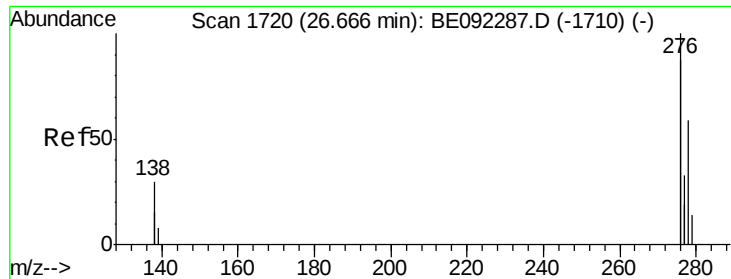
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#34
Benzo(a)pyrene
Concen: 0.31 ng
RT: 24.01 min Scan# 1537
Delta R.T. -0.01 min
Lab File: BE092284.D
Acq: 29 Aug 2016 10:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.0	20.3	30.5
125	16.0	11.8	17.6





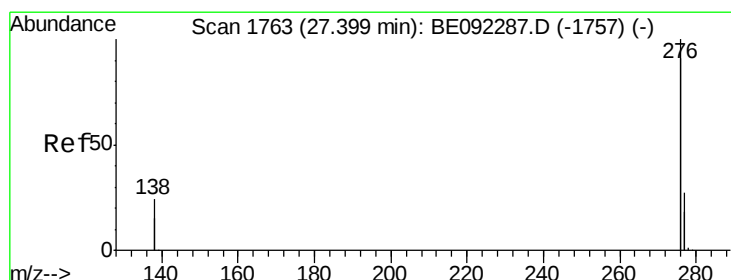
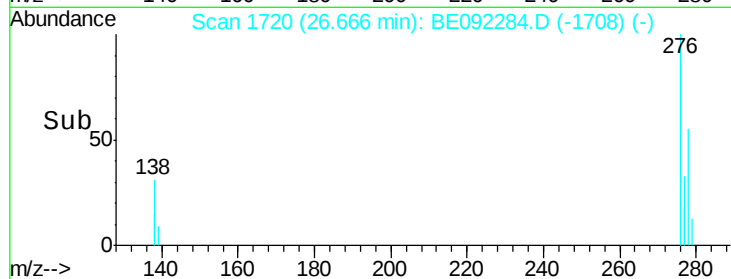
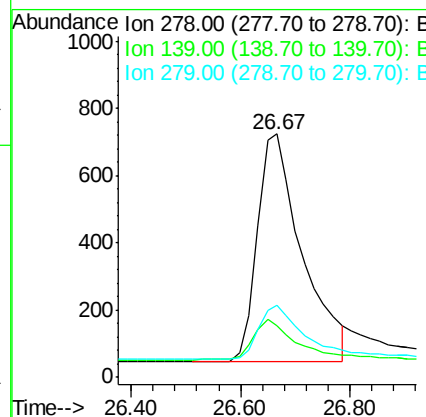
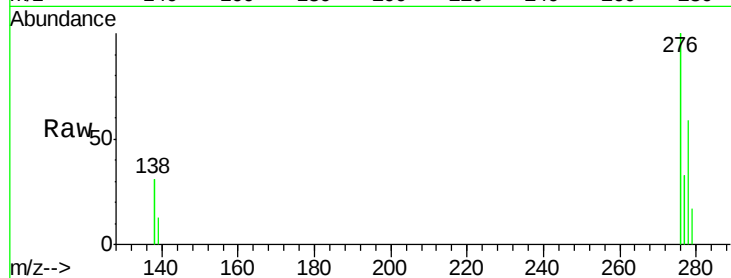
#35
Dibenzo(a,h)anthracene
Concen: 0.27 ng
RT: 26.67 min Scan# 1720
Delta R.T. -0.00 min
Lab File: BE092284.D
Acq: 29 Aug 2016 10:49

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4

Tot Ion	Ratio	Lower	Upper
278	100		
139	21.4	16.2	24.2
279	29.7	21.4	32.2

Manual Integrations
APPROVED

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#36
Benzo(g,h,i)perylene
Concen: 0.32 ng
RT: 27.40 min Scan# 1763
Delta R.T. -0.02 min
Lab File: BE092284.D
Acq: 29 Aug 2016 10:49

Tgt Ion	Ratio	Lower	Upper
276	100		
277	27.2	21.4	32.2
138	25.6	19.4	29.2

