

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF112916\
 Data File : BF091332.D
 Acq On : 29 Nov 2016 17:41
 Operator : UM/SJ
 Sample : H5696-02MS
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMS

Manual Integrations
 APPROVED

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 11/30/2016 10:33:57 AM

Quant Time: Nov 30 06:42:59 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 29 13:33:46 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	182772	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	719246	20.00	ng	-0.02
38) Acenaphthene-d10	9.91	164	414923	20.00	ng	0.00
63) Phenanthrene-d10	11.38	188	640249	20.00	ng	-0.02
75) Chrysene-d12	14.01	240	368916	20.00	ng	-0.03
86) Perylene-d12	15.44	264	108740	20.00	ng	-0.03

System Monitoring Compounds

5) 2-Fluorophenol	5.49	112	1327894	118.69	ng	0.02
7) Phenol-d6	6.50	99	1570848	114.06	ng	0.00
23) Nitrobenzene-d5	7.43	82	1060488	82.63	ng	-0.02
41) 2,4,6-Tribromophenol	10.70	330	508388	129.42	ng	0.00
44) 2-Fluorobiphenyl	9.24	172	2088613	91.14	ng	0.00
78) Terphenyl-d14	12.97	244	1709375	100.71	ng	-0.02

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.64	88	169609	33.51	ng	88
3) Pyridine	3.36	79	210992m	14.73	ng	
4) n-Nitrosodimethylamine	3.26	42	314585	41.86	ng	97
6) Aniline	6.61	93	535464	29.27	ng	# 40
8) 2-Chlorophenol	6.65	128	495080	40.36	ng	89
10) Phenol	6.52	94	652193	40.24	ng	87
11) bis(2-Chloroethyl)ether	6.61	93	535464	46.24	ng	96
12) 1,3-Dichlorobenzene	6.80	146	503854m	36.93	ng	
13) 1,4-Dichlorobenzene	6.88	146	507879	37.42	ng	97
14) 1,2-Dichlorobenzene	7.04	146	496289m	39.26	ng	
15) Benzyl Alcohol	7.01	79	270756	24.57	ng	98
16) 2,2'-oxybis(1-Chloropropan	7.14	45	1020474	40.99	ng	71
17) 2-Methylphenol	7.12	107	391043	40.33	ng	# 76
18) Hexachloroethane	7.38	117	195267	40.52	ng	97
19) n-Nitroso-di-n-propylamine	7.28	70	353214	40.71	ng	# 97
20) 3+4-Methylphenols	7.27	107	463762	39.18	ng	# 69
22) Acetophenone	7.28	105	704114	41.30	ng	# 92
24) Nitrobenzene	7.45	77	561530	42.74	ng	# 76
25) Isophorone	7.69	82	1012209	44.52	ng	98
26) 2-Nitrophenol	7.76	139	241827	40.38	ng	98
27) 2,4-Dimethylphenol	7.81	122	474691	42.37	ng	97
28) bis(2-Chloroethoxy)methane	7.90	93	538841	39.37	ng	99
29) 2,4-Dichlorophenol	8.01	162	424081	43.03	ng	91
30) 1,2,4-Trichlorobenzene	8.09	180	466263	42.20	ng	98
31) Naphthalene	8.17	128	1494042	43.71	ng	100
32) Benzoic acid	7.92	122	311938	37.78	ng	96
34) Hexachlorobutadiene	8.30	225	286280	42.14	ng	98
35) Caprolactam	8.60	113	107371m	37.91	ng	
36) 4-Chloro-3-methylphenol	8.70	107	421566	39.62	ng	99
37) 2-Methylnaphthalene	8.87	142	1003548	43.21	ng	95
39) 1,2,4,5-Tetrachlorobenzene	9.03	216	420602	35.96	ng	98
40) Hexachlorocyclopentadiene	9.02	237	506412	93.40	ng	99
42) 2,4,6-Trichlorophenol	9.14	196	346050	45.52	ng	96
43) 2,4,5-Trichlorophenol	9.19	196	295304	38.76	ng	93

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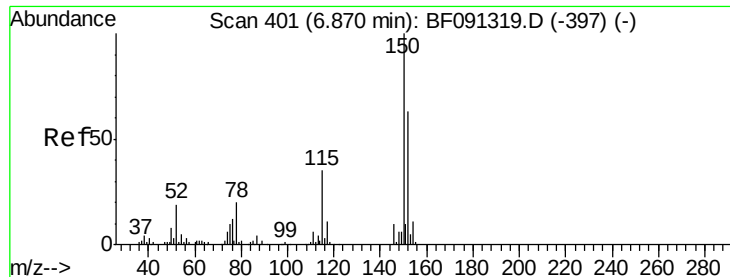
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1'-Biphenyl	9.33	154	1105231	37.04	ng	98
46) 2-Chloronaphthalene	9.35	162	857437	38.59	ng	98
47) 2-Nitroaniline	9.44	65	243718	30.54	ng #	73
48) Acenaphthylene	9.77	152	1392838	39.82	ng	99
49) Dimethylphthalate	9.64	163	1109725	44.17	ng	98
50) 2,6-Dinitrotoluene	9.69	165	270049	48.09	ng #	73
51) Acenaphthene	9.94	154	1070721	45.38	ng	94
52) 3-Nitroaniline	9.85	138	45807	7.05	ng	96
53) 2,4-Dinitrophenol	9.97	184	247676	100.86	ng #	67
54) Dibenzofuran	10.12	168	1376956	43.59	ng	92
55) 4-Nitrophenol	10.01	139	262253	55.86	ng	99
56) 2,4-Dinitrotoluene	10.09	165	355301	48.78	ng #	86
57) Fluorene	10.46	166	1029945	42.47	ng	98
58) 2,3,4,6-Tetrachlorophenol	10.23	232	285077	43.82	ng	96
59) Diethylphthalate	10.33	149	1085676	43.78	ng	96
60) 4-Chlorophenyl-phenylether	10.45	204	468621	38.53	ng #	87
61) 4-Nitroaniline	10.46	138	73138	11.98	ng	92
62) Azobenzene	10.61	77	1078645	42.62	ng	92
64) 4,6-Dinitro-2-methylphenol	10.49	198	150241	42.59	ng #	81
65) n-Nitrosodiphenylamine	10.56	169	246823	12.72	ng	98
66) 4-Bromophenyl-phenylether	10.94	248	337324	49.02	ng #	81
67) Hexachlorobenzene	11.00	284	321755	43.27	ng #	76
69) Pentachlorophenol	11.19	266	355004	81.09	ng	97
70) Phenanthrene	11.41	178	1395322	41.94	ng	100
71) Anthracene	11.46	178	1510601	45.75	ng	99
72) Carbazole	11.61	167	338930	11.31	ng #	95
73) Di-n-butylphthalate	11.96	149	1586207	46.71	ng	100
74) Fluoranthene	12.60	202	1418782	45.02	ng	99
77) Pyrene	12.83	202	1377188	49.19	ng	99
79) Butylbenzylphthalate	13.44	149	515545	49.18	ng	85
80) Benzo(a)anthracene	14.00	228	945143	43.81	ng	100
82) Chrysene	14.05	228	976292	45.73	ng	99
83) Bis(2-ethylhexyl)phthalate	14.01	149	716798	53.94	ng #	92
84) Di-n-octyl phthalate	14.62	149	1104673	54.94	ng	97
85) Indeno(1,2,3-cd)pyrene	16.85	276	870799	44.54	ng	96
87) Benzo(b)fluoranthene	15.03	252	1057796m	156.50	ng	
88) Benzo(k)fluoranthene	15.07	252	652635m	114.83	ng	
89) Benzo(a)pyrene	15.39	252	669874	110.36	ng #	97
90) Dibenzo(a,h)anthracene	16.87	278	869866	154.95	ng #	94
91) Benzo(g,h,i)perylene	17.27	276	687364	118.75	ng	99

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



#1

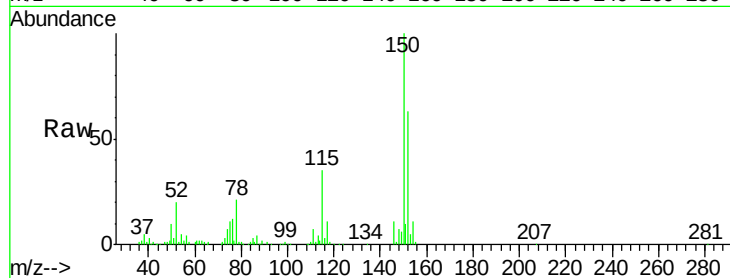
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.87 min Scan# 401
Delta R.T. -0.01 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

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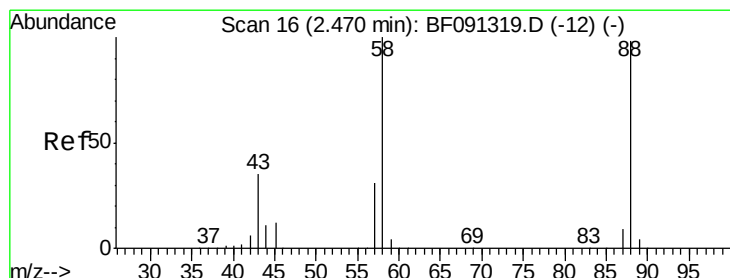
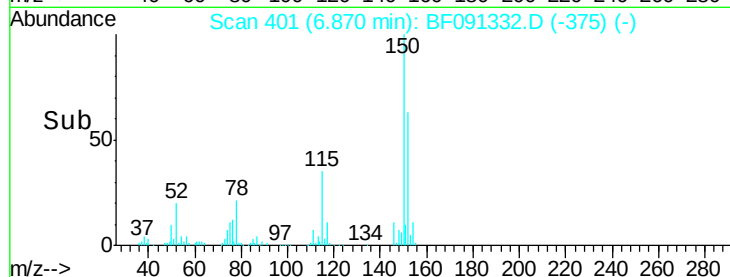
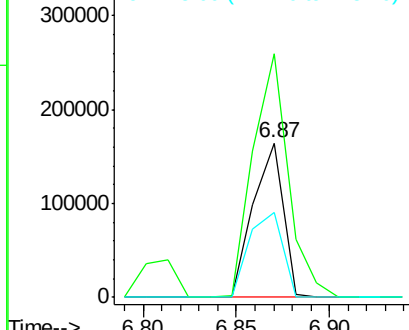
Tgt Ion	Ratio	Lower	Upper
152	100		
150	157.6	122.5	183.7
115	55.3	51.8	77.8

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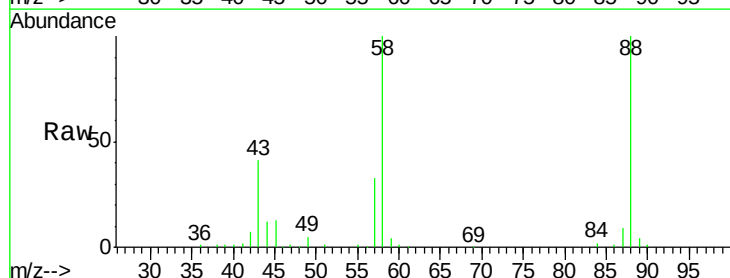
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



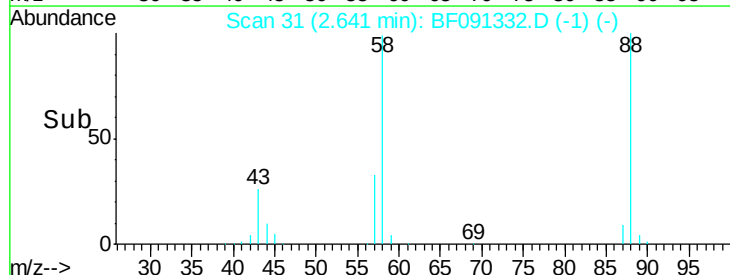
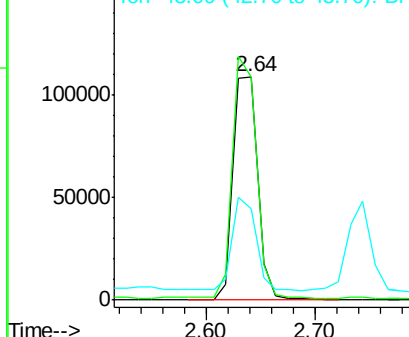
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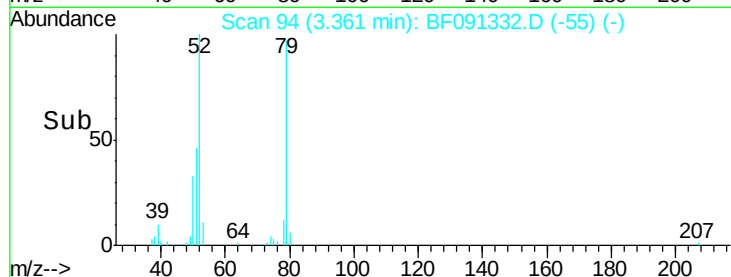
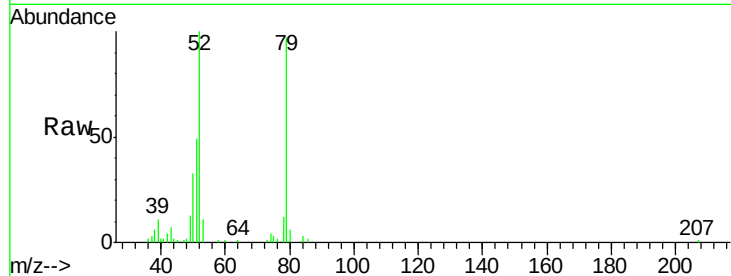
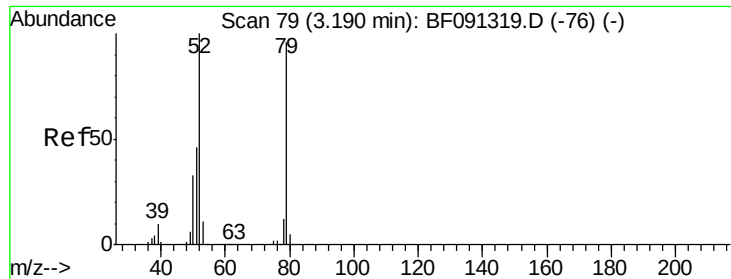
1,4-Dioxane
Concen: 33.51 ng
RT: 2.64 min Scan# 31
Delta R.T. 0.14 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

Tgt Ion	Ratio	Lower	Upper
88	100		
58	103.5	70.3	105.5
43	39.2	31.3	46.9



Abundance Ion 88.00 (87.70 to 88.70): BF0
Ion 58.00 (57.70 to 58.70): BF0
Ion 43.00 (42.70 to 43.70): BF0





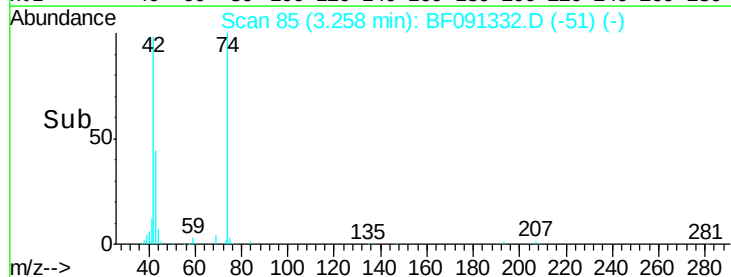
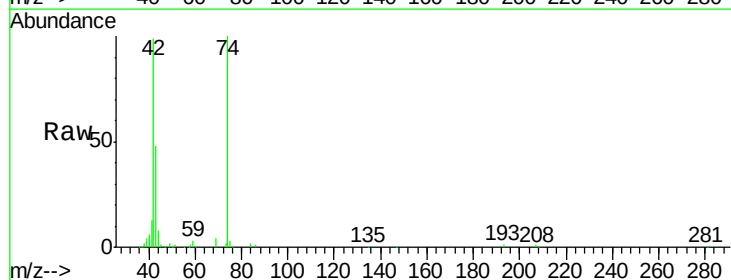
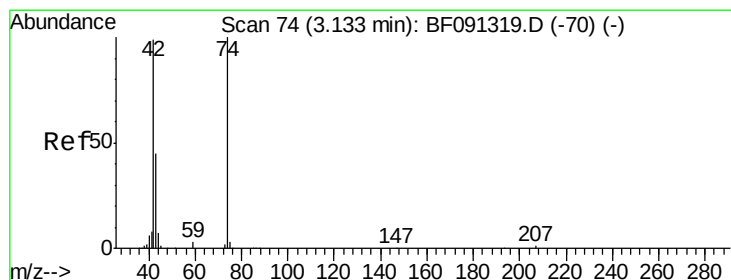
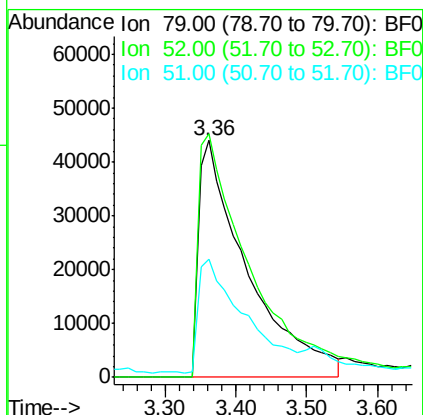
#3
 Pyridine
 Concen: 14.73 ng m
 RT: 3.36 min Scan# 94
 Delta R.T. 0.14 min
 Lab File: BF091332.D
 Acq: 29 Nov 2016 17:41

Tgt Ion	Ratio	Lower	Upper
79	100		
52	102.8	71.0	106.4
51	50.1	37.0	55.4

Instrument :
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 SOIL-CUTTINGSMS

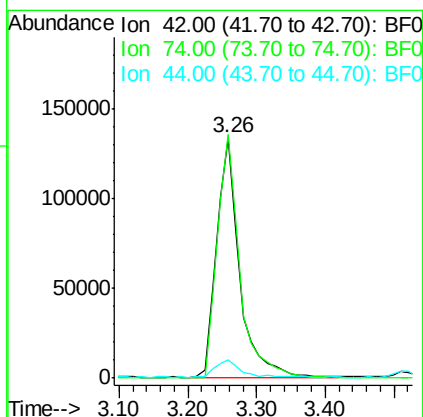
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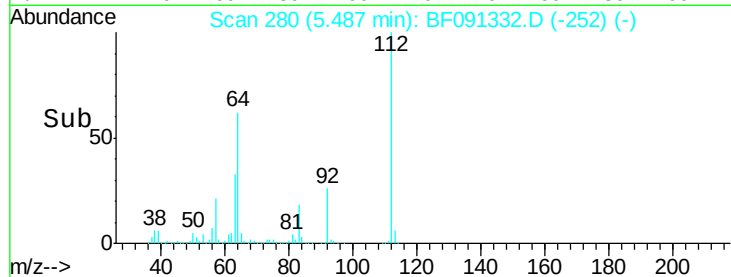
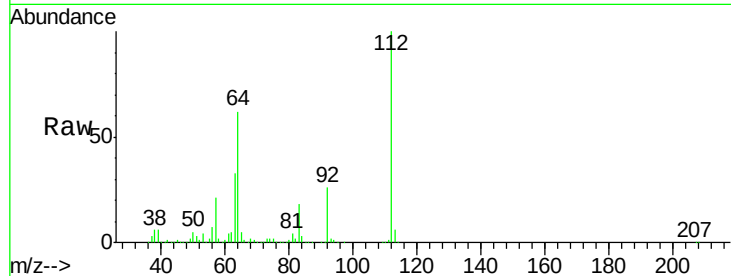
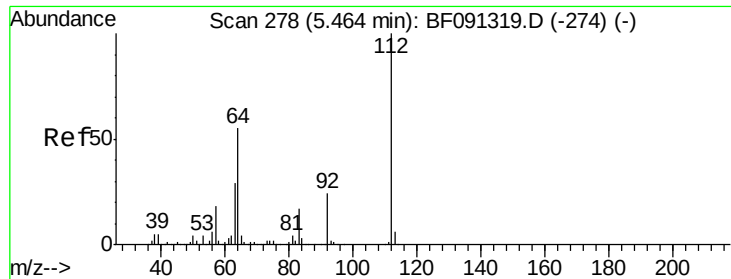
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 11/30/2016 10:33:57 AM



#4
 n-Nitrosodimethylamine
 Concen: 41.86 ng
 RT: 3.26 min Scan# 85
 Delta R.T. 0.09 min
 Lab File: BF091332.D
 Acq: 29 Nov 2016 17:41

Tgt Ion	Ratio	Lower	Upper
42	100		
74	101.4	78.9	118.3
44	7.9	5.8	8.6





#5

2-Fluorophenol

Concen: 118.69 ng

RT: 5.49 min Scan# 280

Delta R.T. 0.02 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

Tgt Ion:	112	Resp:	1327894
Ion Ratio	Lower	Upper	
112	100		
64	61.5	61.5	92.3#
63	32.8	33.3	49.9#

Instrument :

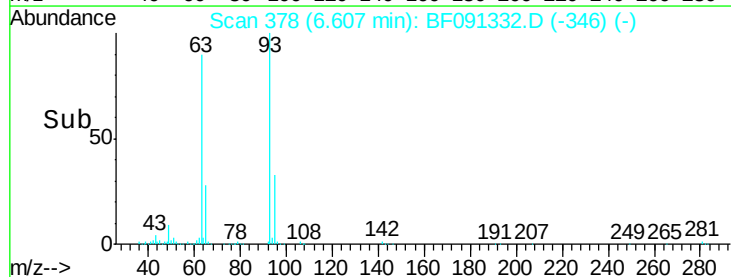
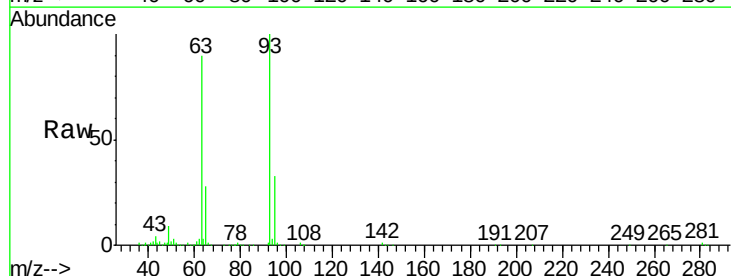
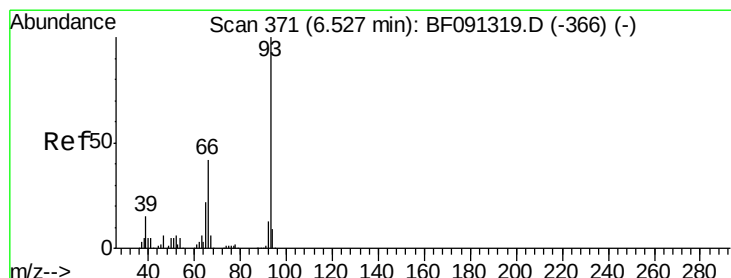
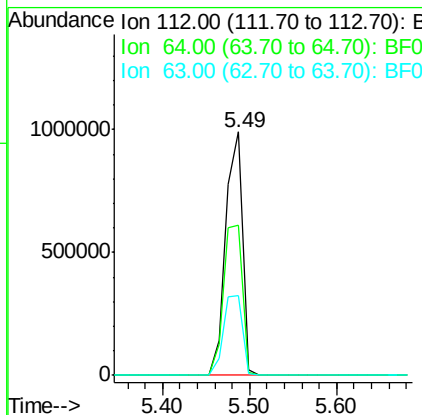
BNA_F

ClientSampleId :

SOIL-CUTTINGSMS

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#6

Aniline

Concen: 29.27 ng

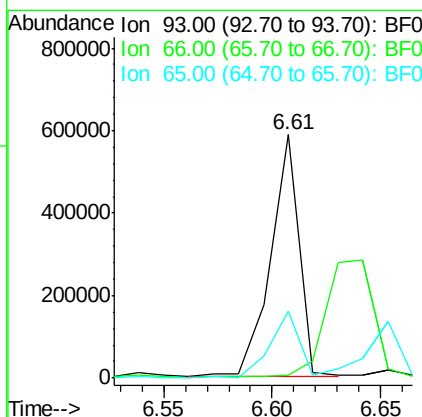
RT: 6.61 min Scan# 378

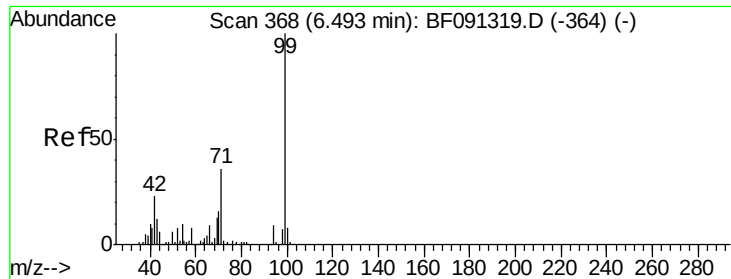
Delta R.T. 0.06 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

Tgt Ion:	93	Resp:	535464
Ion Ratio	Lower	Upper	
93	100		
66	1.1	55.8	83.6#
65	27.8	29.9	44.9#





#7

Phenol-d6

Concen: 114.06 ng

RT: 6.50 min Scan# 369

Delta R.T. 0.01 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMS

Tgt Ion: 99 Resp: 1570848

Ion Ratio Lower Upper

99 100

42 22.1 20.6 31.0

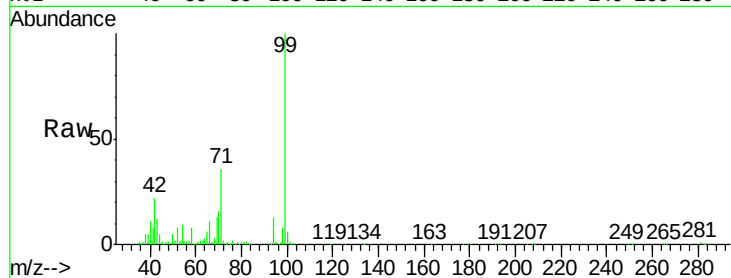
71 36.0 29.9 44.9

Manual Integrations

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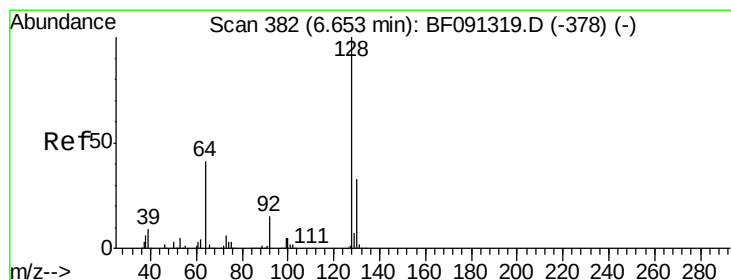
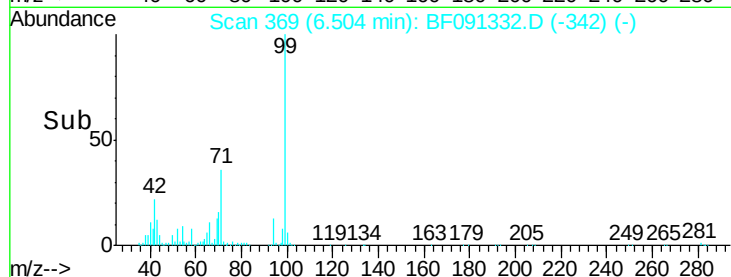
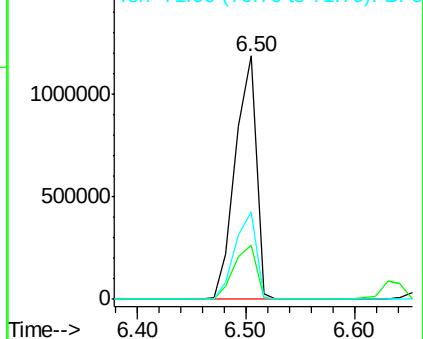
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#8

2-Chlorophenol

Concen: 40.36 ng

RT: 6.65 min Scan# 382

Delta R.T. -0.01 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

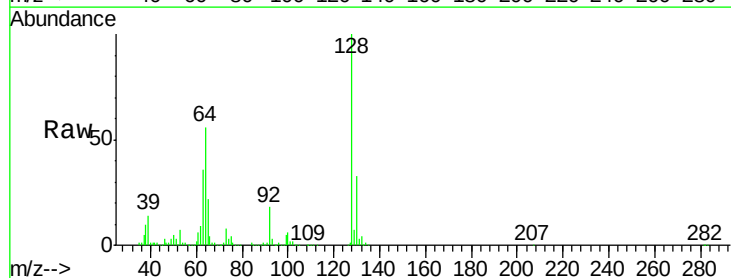
Tgt Ion: 128 Resp: 495080

Ion Ratio Lower Upper

128 100

130 33.2 13.1 53.1

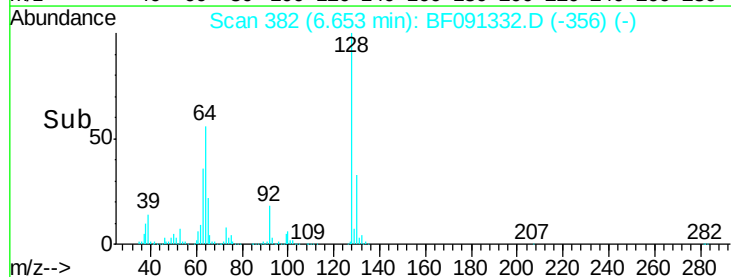
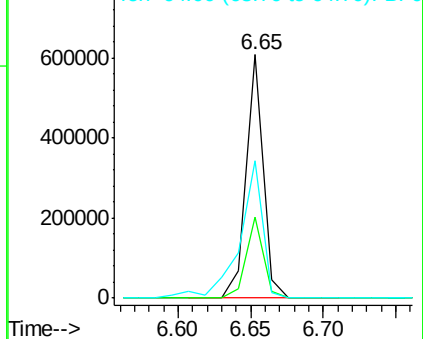
64 56.3 24.1 64.1

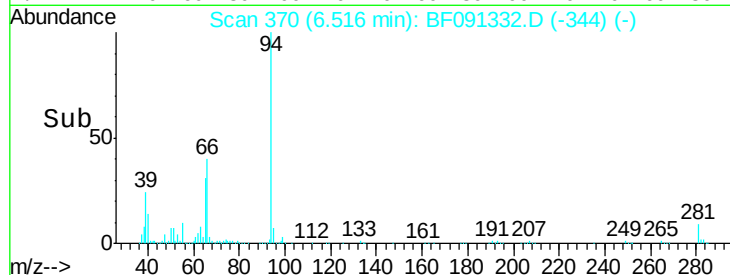
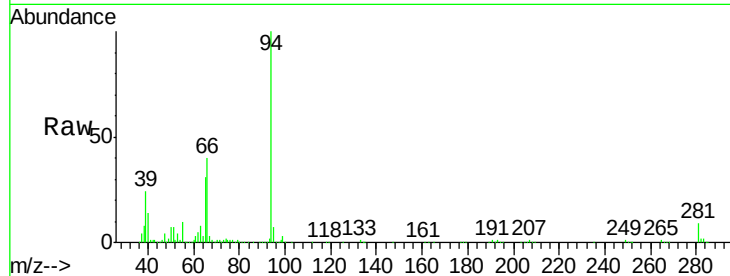
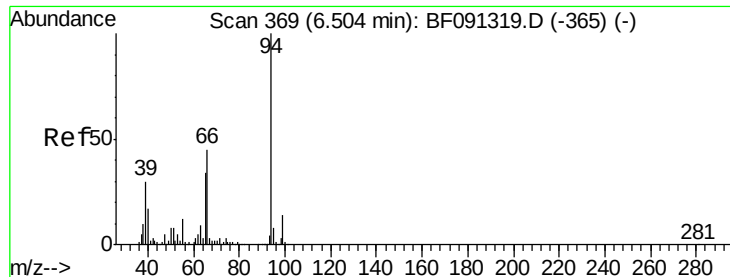


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 64.00 (63.70 to 64.70): BF0





#10

Phenol

Concen: 40.24 ng

RT: 6.52 min Scan# 370

Delta R.T. -0.01 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

Tgt Ion:	94	Resp:	652193
Ion Ratio	Lower	Upper	
94	100		
65	31.2	16.9	56.9
66	40.4	30.6	70.6

Instrument :

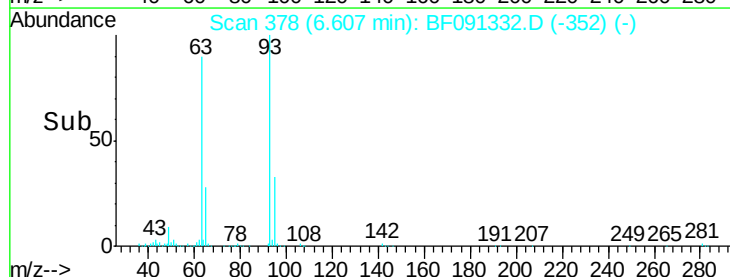
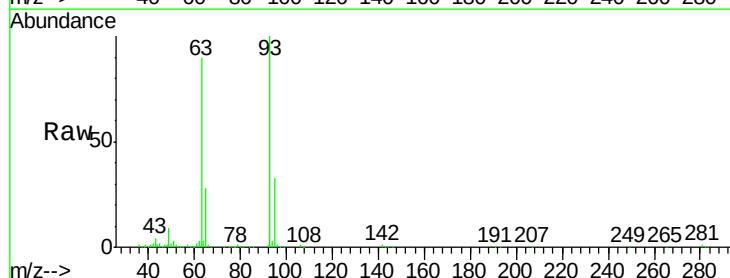
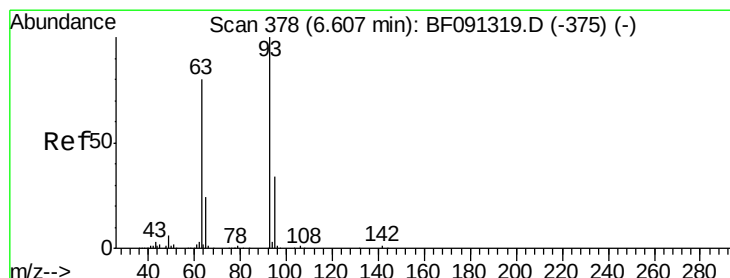
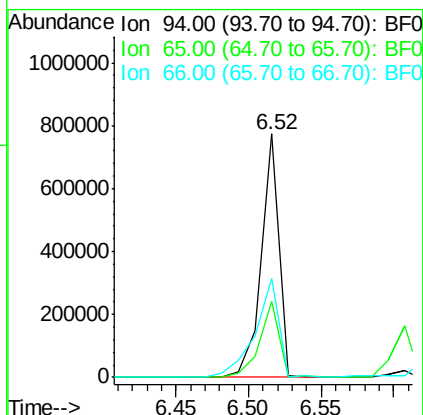
BNA_F

ClientSampleId :

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#11

bis(2-Chloroethyl)ether

Concen: 46.24 ng

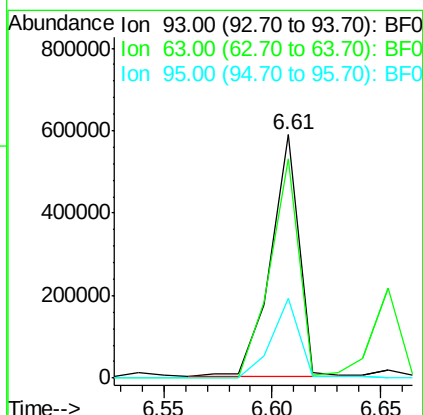
RT: 6.61 min Scan# 378

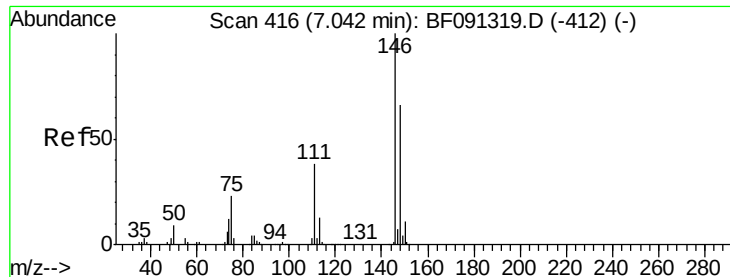
Delta R.T. -0.01 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

Tgt Ion:	93	Resp:	535464
Ion Ratio	Lower	Upper	
93	100		
63	90.3	74.8	114.8
95	32.9	12.4	52.4





#12

1,3-Dichlorobenzene

Concen: 36.93 ng m

RT: 6.80 min Scan# 395

Delta R.T. -0.02 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

Instrument :

BNA_F

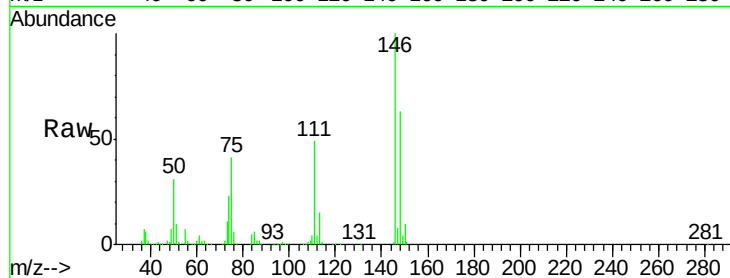
ClientSampleId :

SOIL-CUTTINGSMS

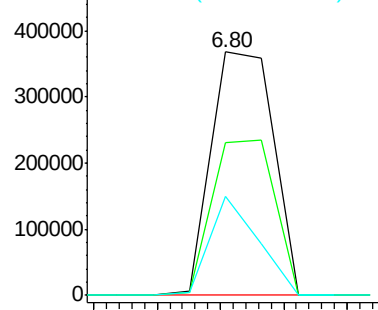
Tgt Ion:	146	Resp:	503854
Ion Ratio	Lower	Upper	
146	100		
148	62.7	51.4	77.0
75	40.9	23.6	35.4#

Manual Integrations
APPROVED

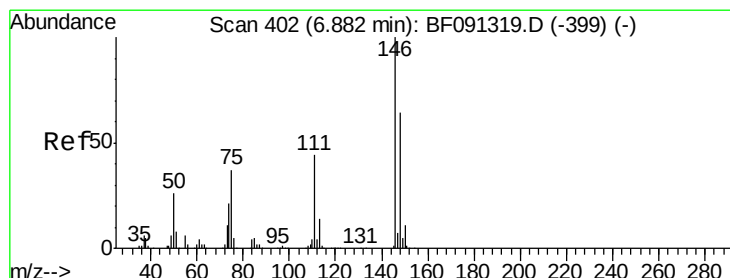
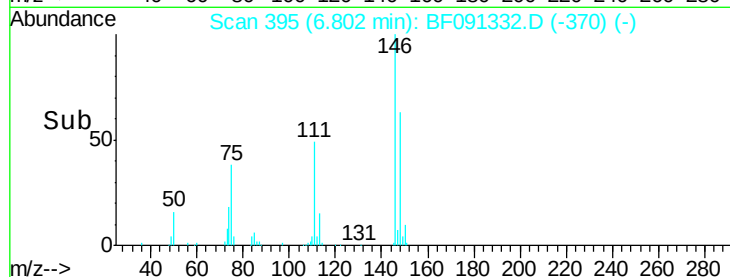
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Abundance Ion 146.00 (145.70 to 146.70): E
Ion 148.00 (147.70 to 148.70): E
Ion 75.00 (74.70 to 75.70): BF0



Time-->



#13

1,4-Dichlorobenzene

Concen: 37.42 ng

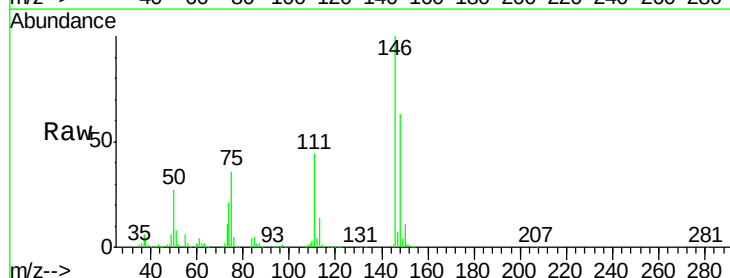
RT: 6.88 min Scan# 402

Delta R.T. -0.02 min

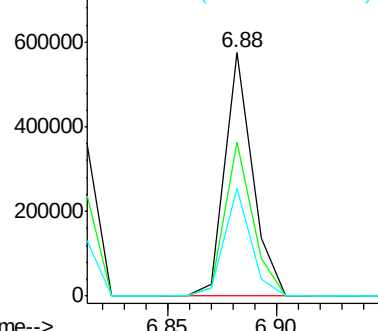
Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

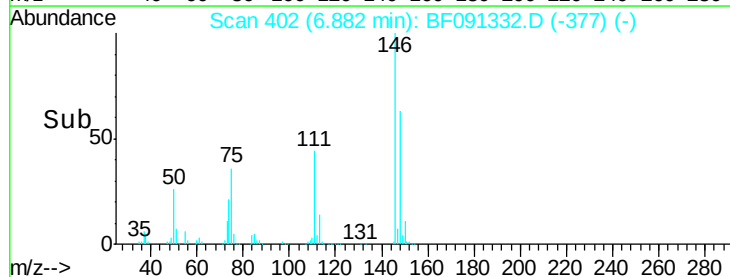
Tgt Ion:	146	Resp:	507879
Ion Ratio	Lower	Upper	
146	100		
148	63.5	51.4	77.0
111	44.4	32.2	48.2

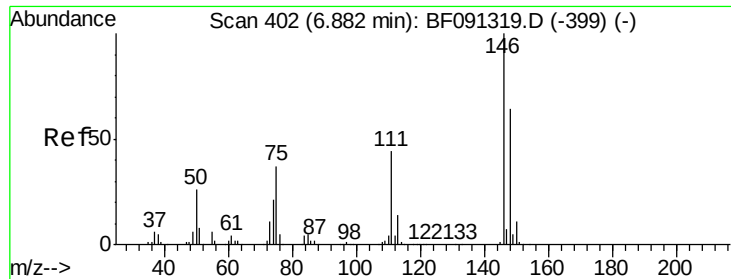


Abundance Ion 146.00 (145.70 to 146.70): E
Ion 148.00 (147.70 to 148.70): E
Ion 111.00 (110.70 to 111.70): E



Time-->





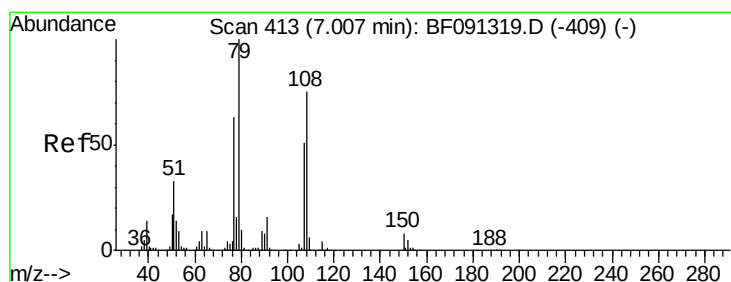
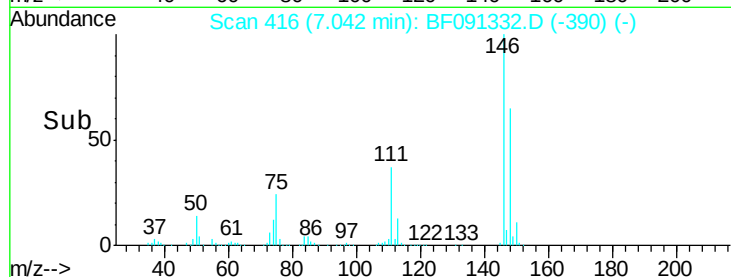
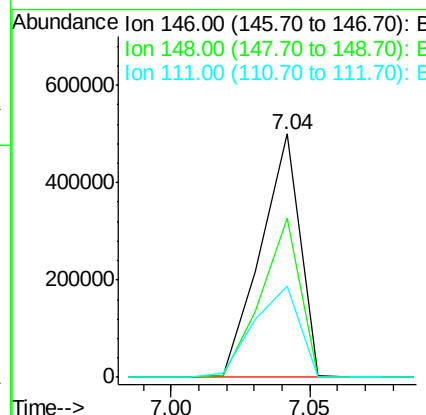
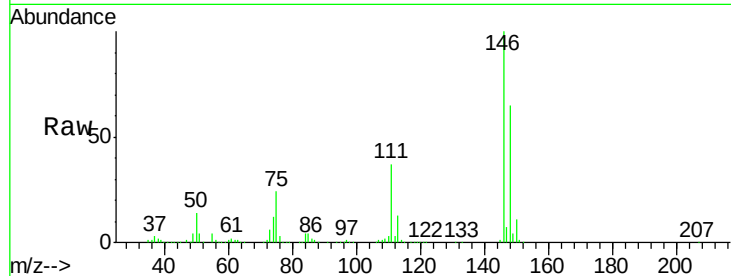
#14
1,2-Dichlorobenzene
Concen: 39.26 ng m
RT: 7.04 min Scan# 416
Delta R.T. -0.01 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMS

Tgt Ion: 146 Resp: 496289
Ion Ratio Lower Upper
146 100
148 65.4 51.0 76.6
111 37.5 38.9 58.3#

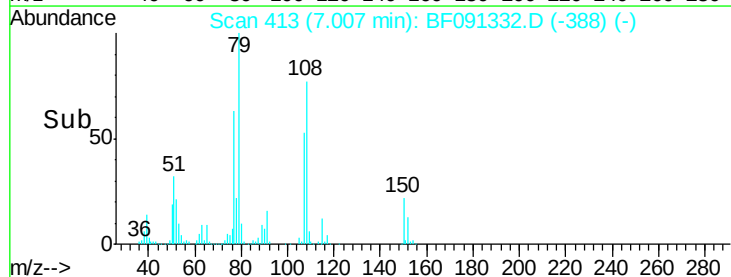
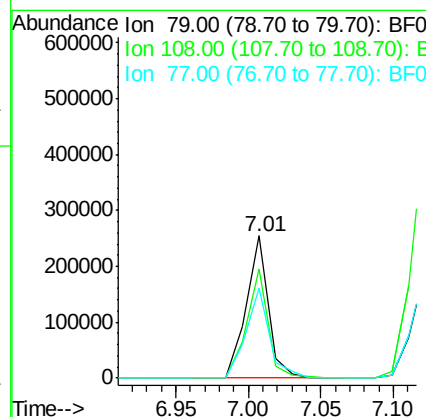
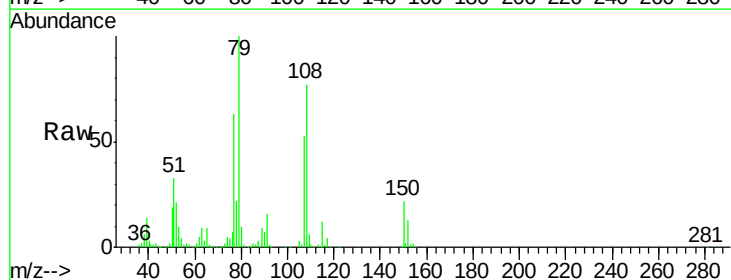
Manual Integrations
APPROVED

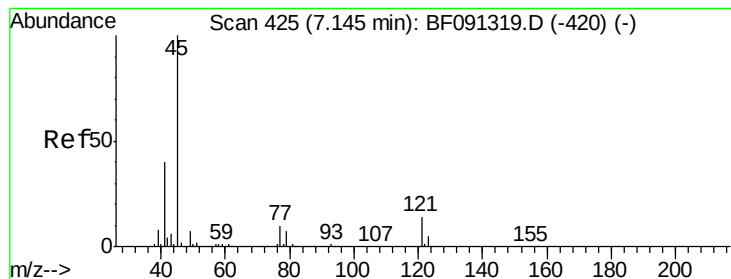
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#15
Benzyl Alcohol
Concen: 24.57 ng
RT: 7.01 min Scan# 413
Delta R.T. -0.02 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

Tgt Ion: 79 Resp: 270756
Ion Ratio Lower Upper
79 100
108 76.6 62.7 94.1
77 63.1 51.7 77.5





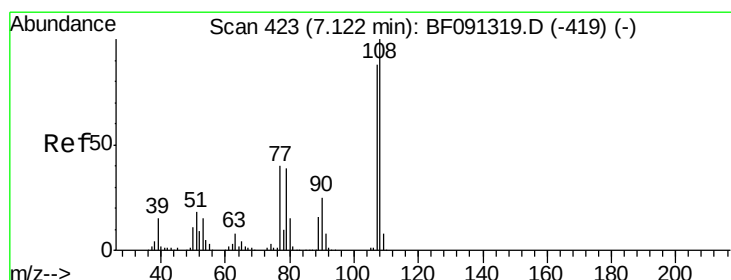
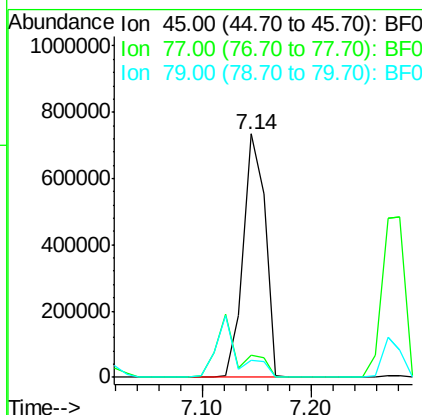
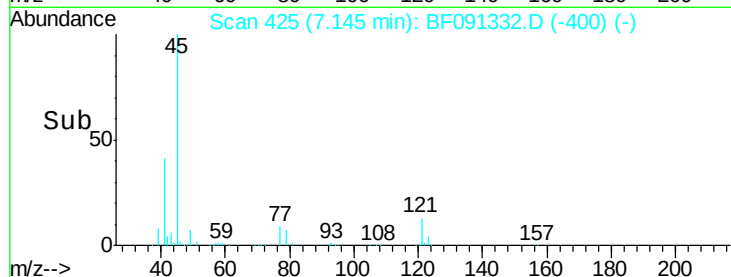
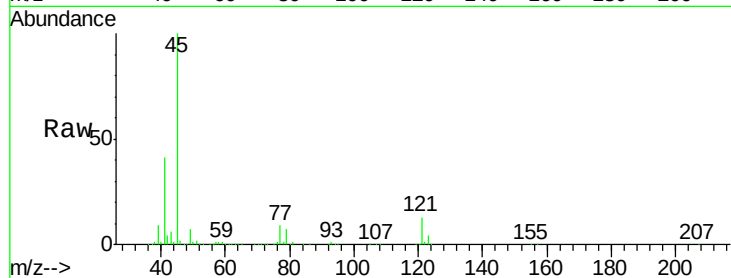
#16
2,2'-oxybis(1-Chloropropane)
Concen: 40.99 ng
RT: 7.14 min Scan# 425
Delta R.T. -0.02 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMS

Tgt Ion: 45 Resp: 1020474
Ion Ratio Lower Upper
45 100
77 9.1 3.8 43.8
79 7.1 0.2 40.2

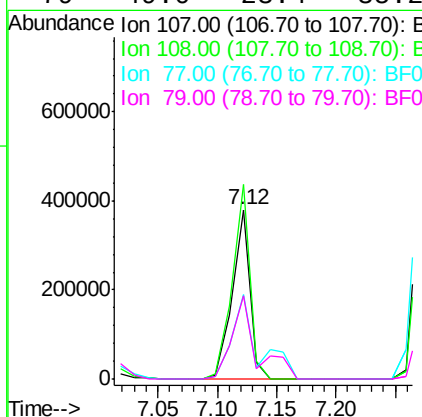
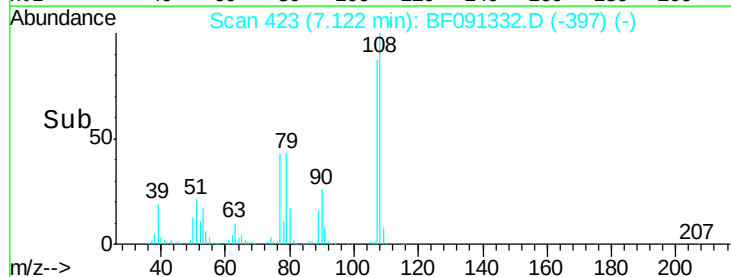
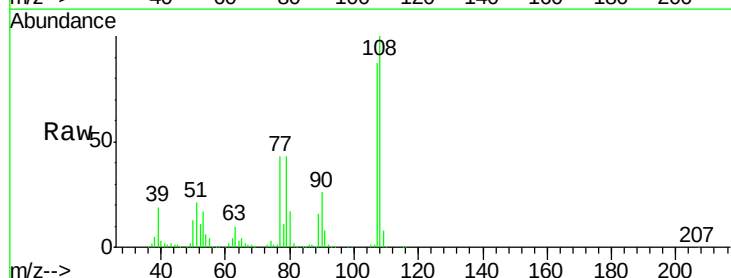
Manual Integrations
APPROVED

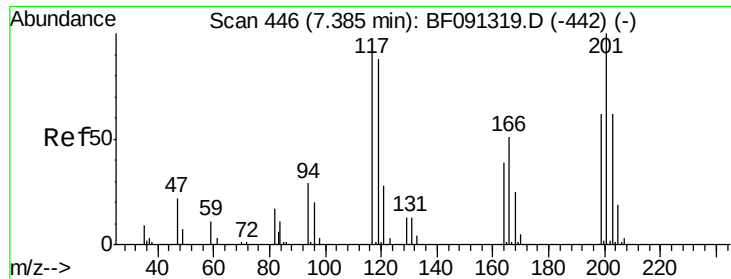
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#17
2-Methylphenol
Concen: 40.33 ng
RT: 7.12 min Scan# 423
Delta R.T. -0.01 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

Tgt Ion: 107 Resp: 391043
Ion Ratio Lower Upper
107 100
108 114.7 67.7 101.5#
77 49.7 40.7 61.1
79 49.0 23.4 35.2#





#18

Hexachloroethane

Concen: 40.52 ng

RT: 7.38 min Scan# 446

Delta R.T. -0.02 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

Instrument :

BNA_F

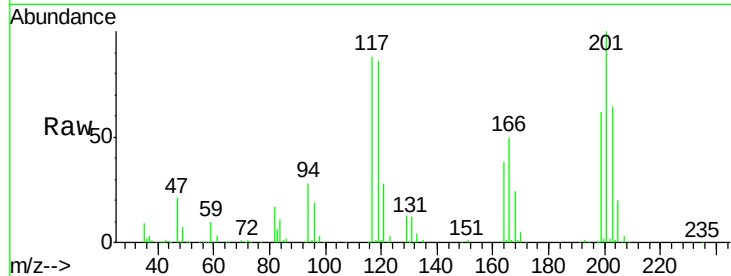
ClientSampleId :

SOIL-CUTTINGSMS

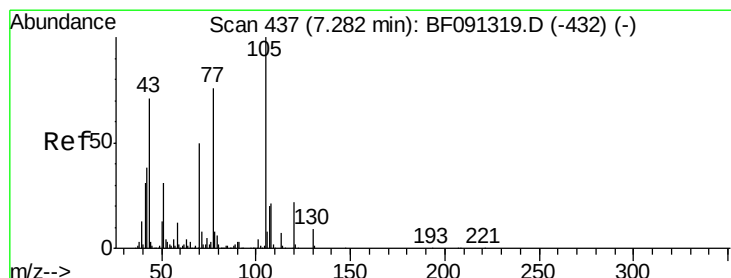
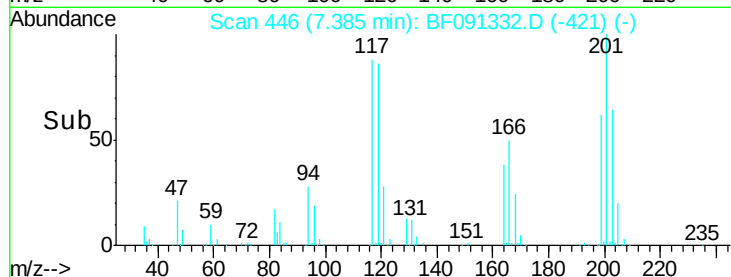
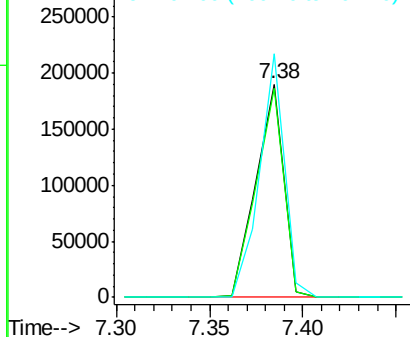
Tgt Ion:	117	Resp:	195267
Ion Ratio	Lower	Upper	
117	100		
119	97.8	78.6	118.0
201	114.1	86.7	130.1

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Abundance Ion 117.00 (116.70 to 117.70): E
Ion 119.00 (118.70 to 119.70): E
Ion 201.00 (200.70 to 201.70): E



#19

n-Nitroso-di-n-propylamine

Concen: 40.71 ng

RT: 7.28 min Scan# 437

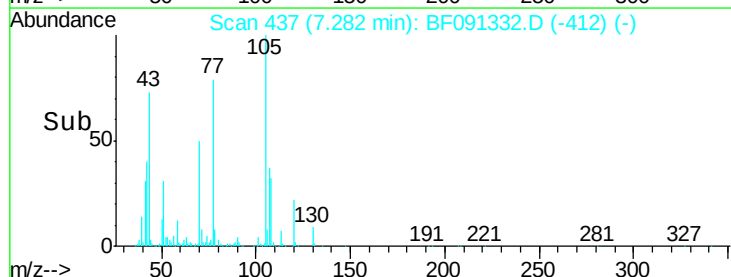
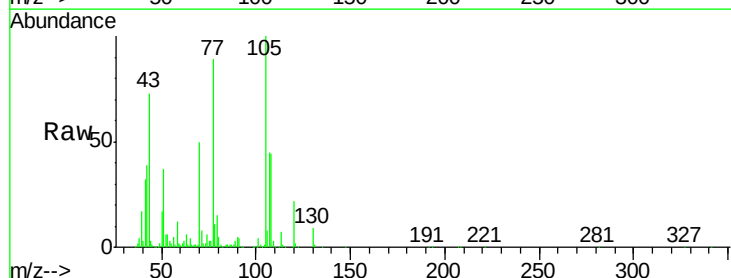
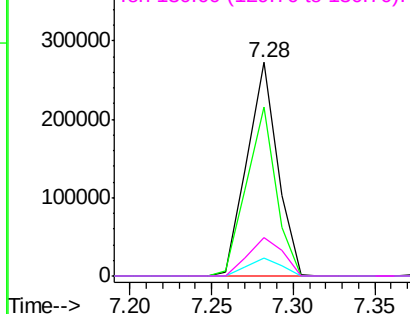
Delta R.T. -0.02 min

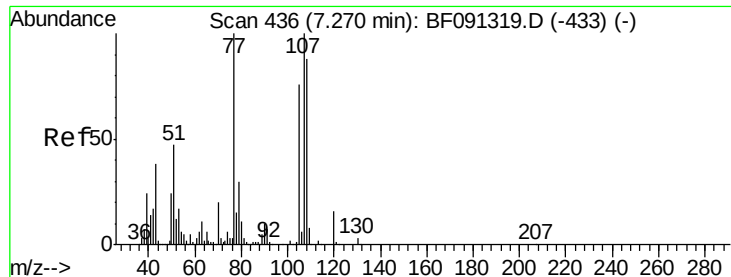
Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

Tgt Ion:	70	Resp:	353214
Ion Ratio	Lower	Upper	
70	100		
42	78.9	64.8	97.2
101	8.5	6.2	9.4
130	18.1	11.7	17.5#

Abundance Ion 70.00 (69.70 to 70.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 101.00 (100.70 to 101.70): E
Ion 130.00 (129.70 to 130.70): E





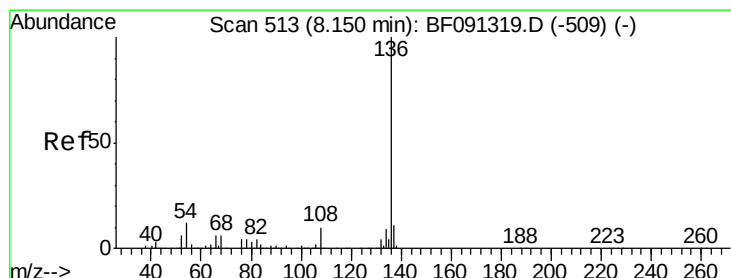
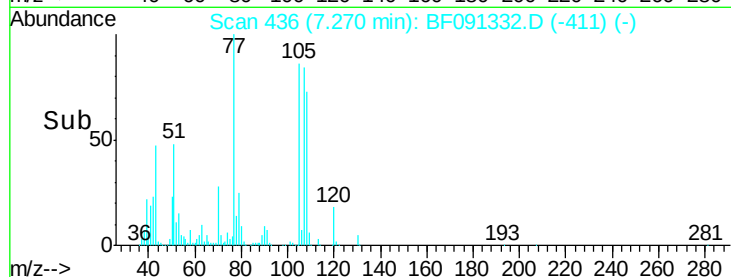
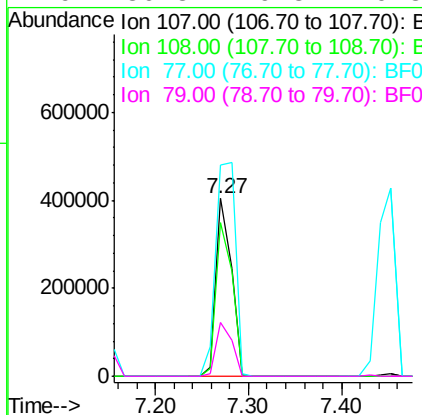
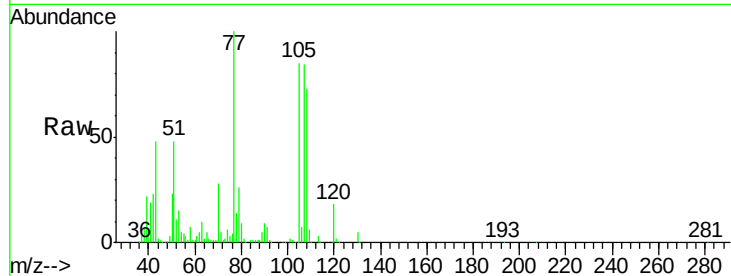
#20
3+4-Methylphenols
Concen: 39.18 ng
RT: 7.27 min Scan# 436
Delta R.T. -0.02 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMS

Tgt Ion	Ratio	Resp	Lower	Upper
107	100	463762		
108	86.2	64.6	104.6	
77	118.6	30.9	70.9#	
79	30.3	9.3	49.3	

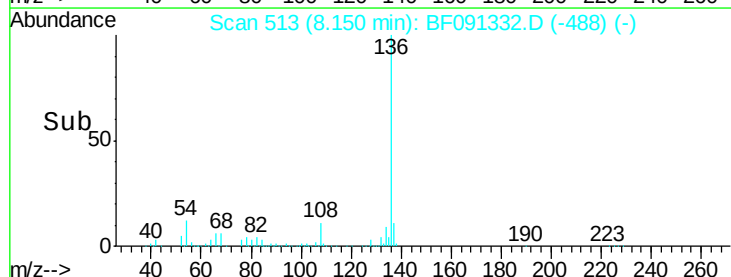
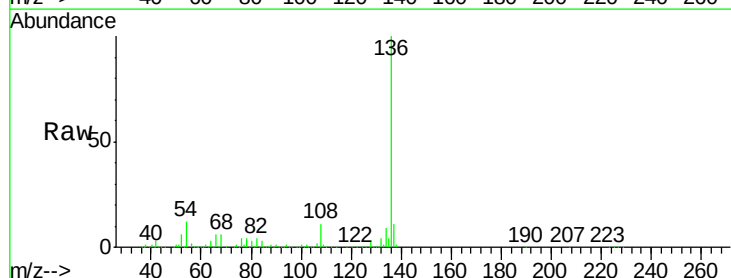
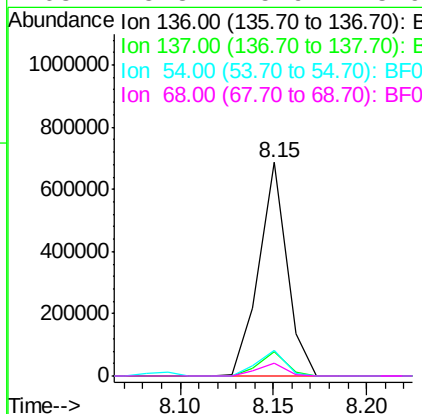
Manual Integrations
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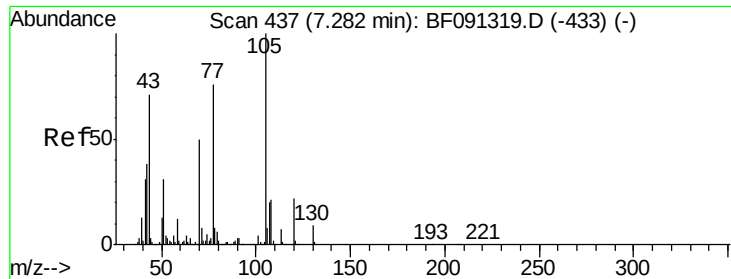
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#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.15 min Scan# 513
Delta R.T. -0.02 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	719246		
137	11.5	9.1	13.7	
54	12.2	9.1	13.7	
68	5.8	5.9	8.9#	





#22

Acetophenone

Concen: 41.30 ng

RT: 7.28 min Scan# 437

Delta R.T. -0.01 min

Lab File: BF091332.D

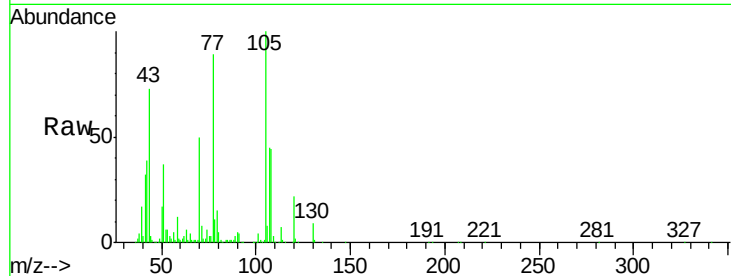
Acq: 29 Nov 2016 17:41

Instrument :

BNA_F

ClientSampleId :

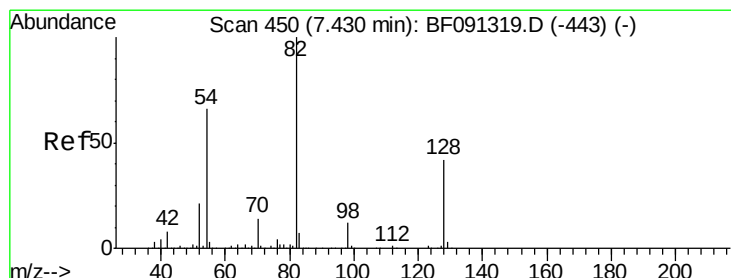
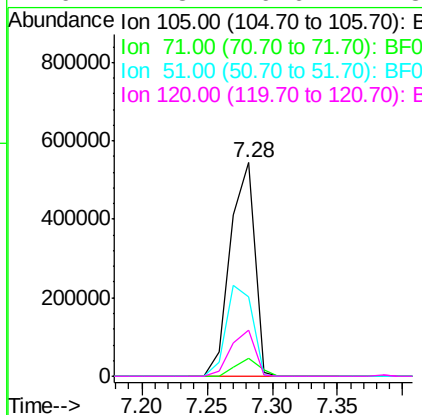
SOIL-CUTTINGSMS



Tgt Ion	Ion	Ratio	Resp	Lower	Upper
105	105	100	704114		
71	71	8.4		7.9	11.9
51	51	37.3		24.5	36.7
120	120	21.8		16.6	24.8

Manual Integrations
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#23

Nitrobenzene-d5

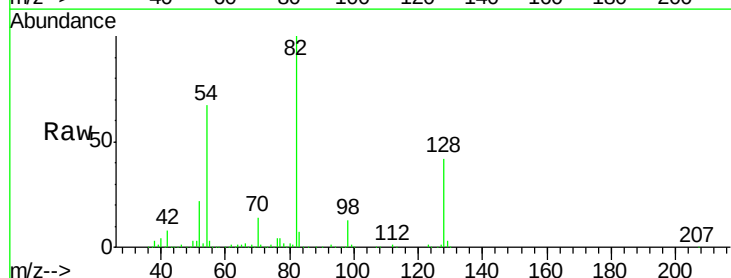
Concen: 82.63 ng

RT: 7.43 min Scan# 450

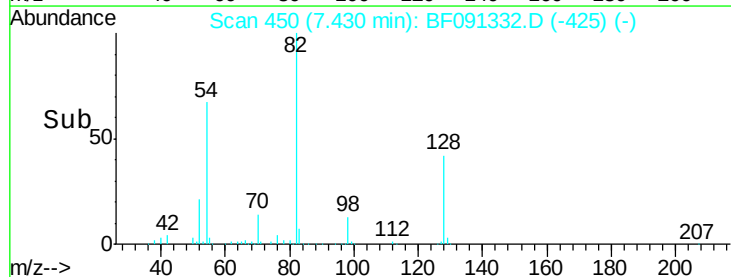
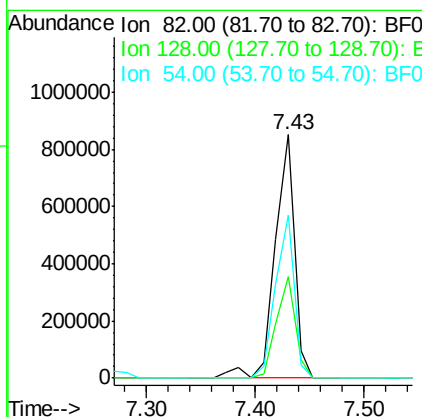
Delta R.T. -0.02 min

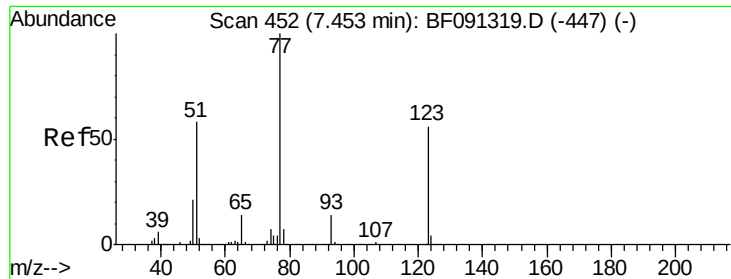
Lab File: BF091332.D

Acq: 29 Nov 2016 17:41



Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	82	100	1060488		
128	128	41.9		31.8	47.6
54	54	66.7		49.1	73.7





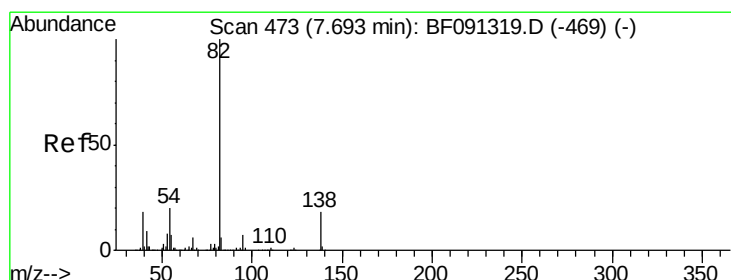
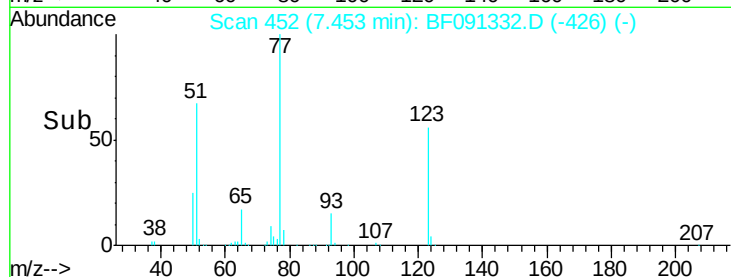
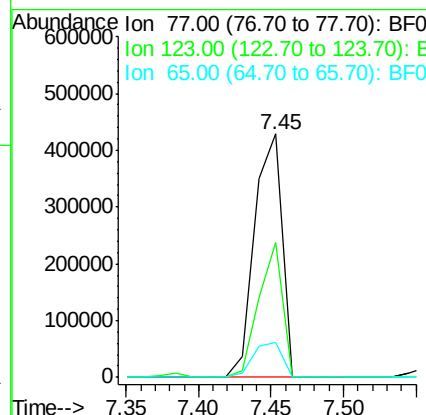
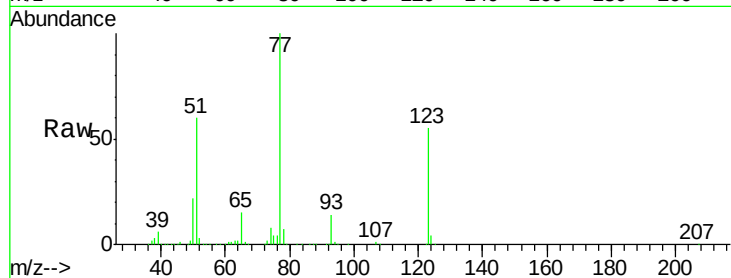
#24
 Nitrobenzene
 Concen: 42.74 ng
 RT: 7.45 min Scan# 452
 Delta R.T. -0.01 min
 Lab File: BF091332.D
 Acq: 29 Nov 2016 17:41

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMS

Tgt Ion	Ratio	Lower	Upper
77	100		
123	55.1	28.5	42.7#
65	14.6	12.5	18.7

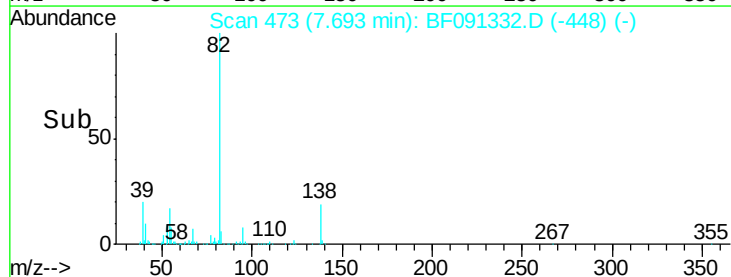
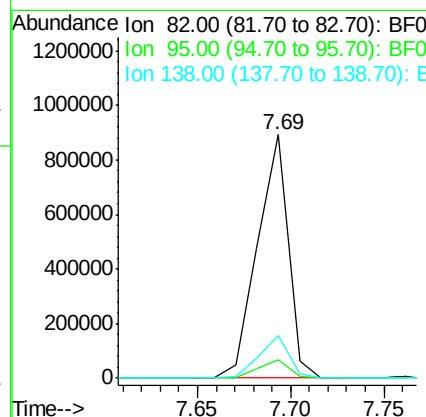
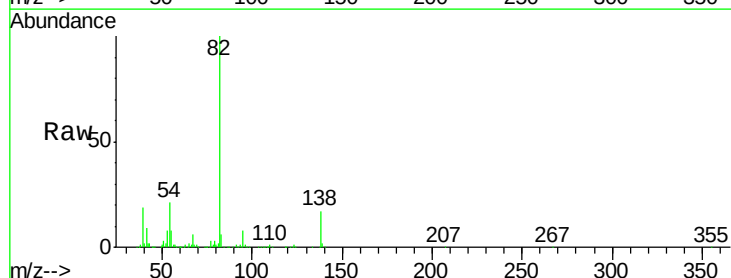
Manual Integrations
 APPROVED

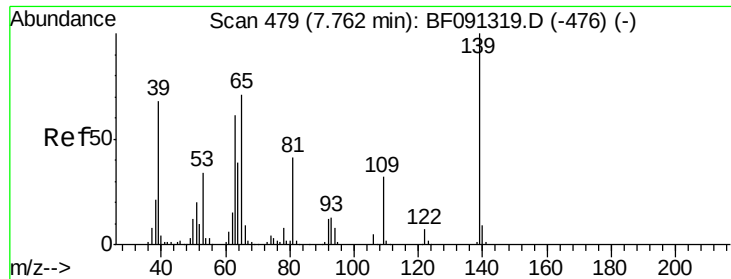
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#25
 Isophorone
 Concen: 44.52 ng
 RT: 7.69 min Scan# 473
 Delta R.T. -0.02 min
 Lab File: BF091332.D
 Acq: 29 Nov 2016 17:41

Tgt Ion	Ratio	Lower	Upper
82	100		
95	7.6	5.7	8.5
138	17.4	13.4	20.0





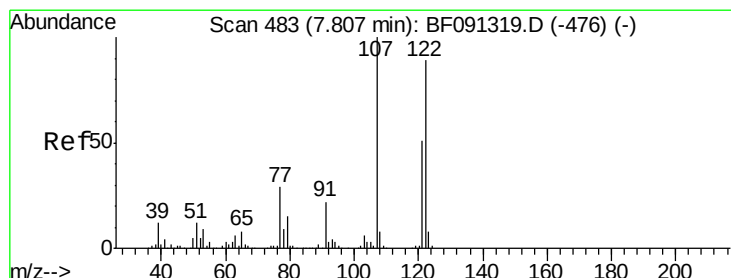
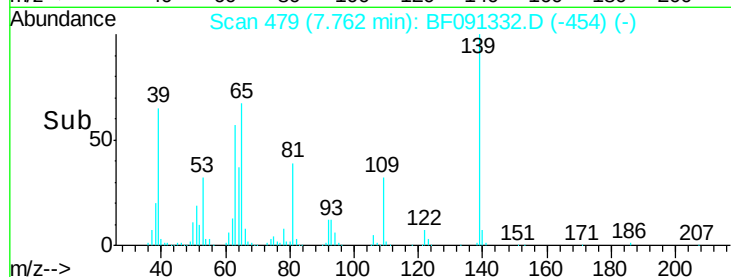
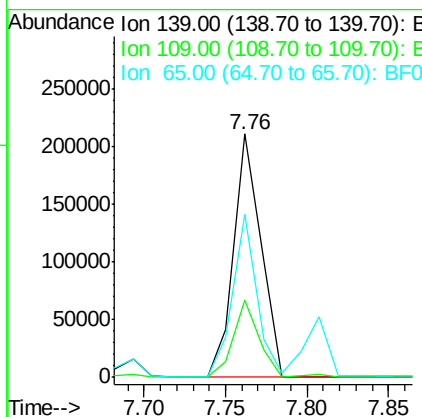
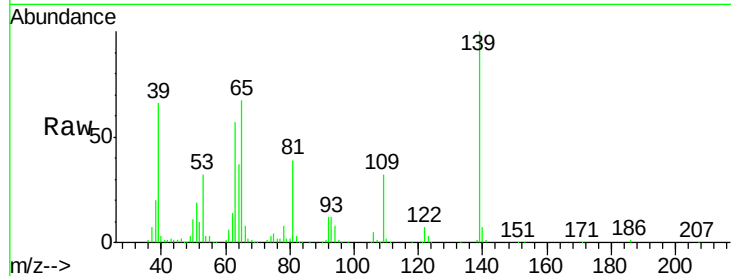
#26
2-Nitrophenol
Concen: 40.38 ng
RT: 7.76 min Scan# 479
Delta R.T. -0.02 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMS

Tgt Ion	Ratio	Resp	Lower	Upper
139	100	241827		
109	31.6	25.3	37.9	
65	66.9	55.4	83.2	

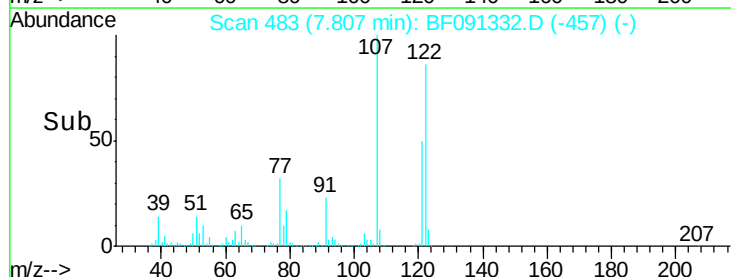
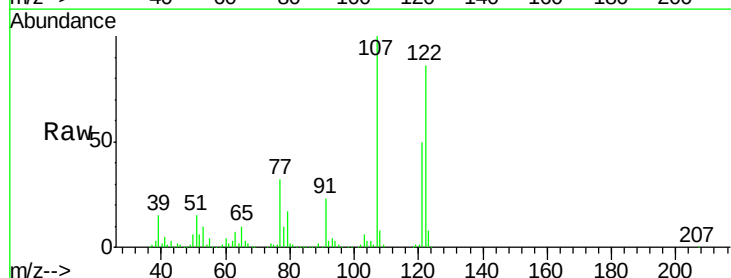
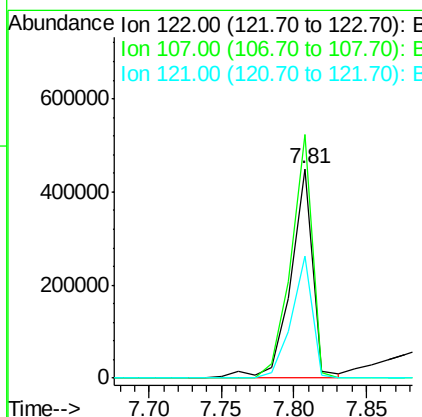
Manual Integrations
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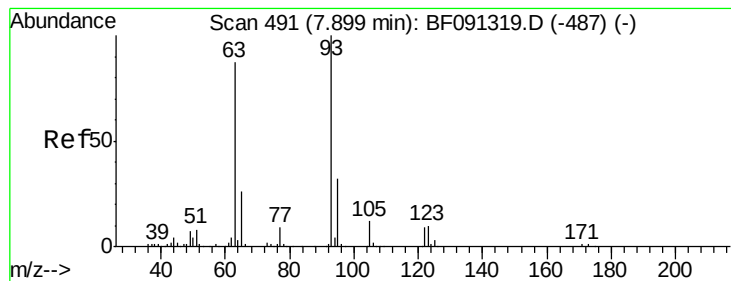
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#27
2,4-Dimethylphenol
Concen: 42.37 ng
RT: 7.81 min Scan# 483
Delta R.T. -0.01 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

Tgt Ion	Ratio	Resp	Lower	Upper
122	100	474691		
107	116.2	96.8	145.2	
121	58.4	47.7	71.5	





#28

bis(2-Chloroethoxy)methane

Concen: 39.37 ng

RT: 7.90 min Scan# 491

Delta R.T. -0.02 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

Instrument :

BNA_F

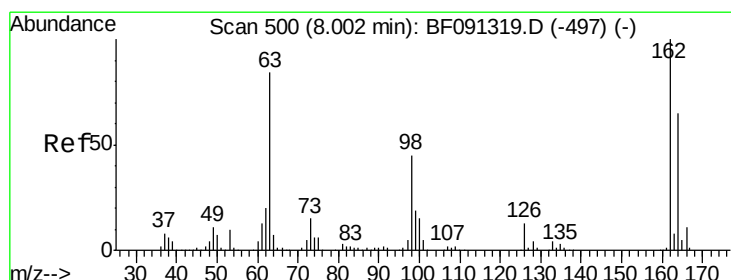
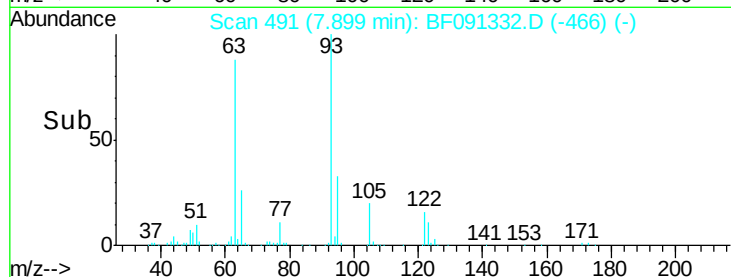
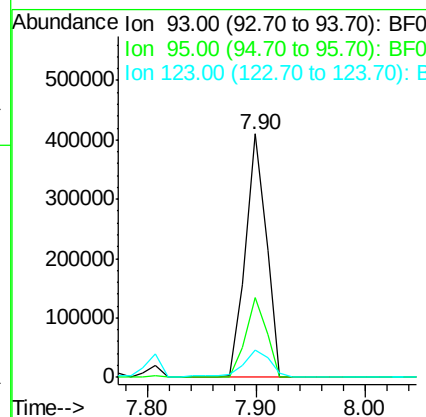
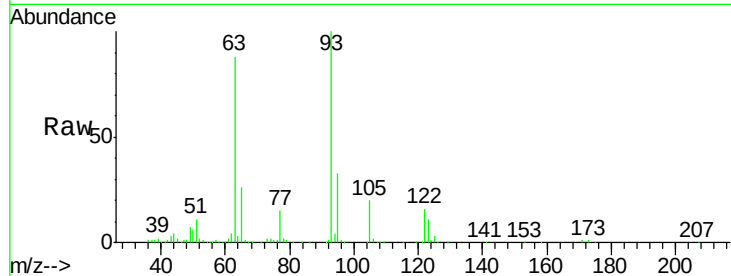
ClientSampleId :

SOIL-CUTTINGSMS

Tgt Ion:	93	Resp:	538841
Ion Ratio	Lower	Upper	
93	100		
95	32.9	26.0	39.0
123	11.3	8.6	12.8

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#29

2,4-Dichlorophenol

Concen: 43.03 ng

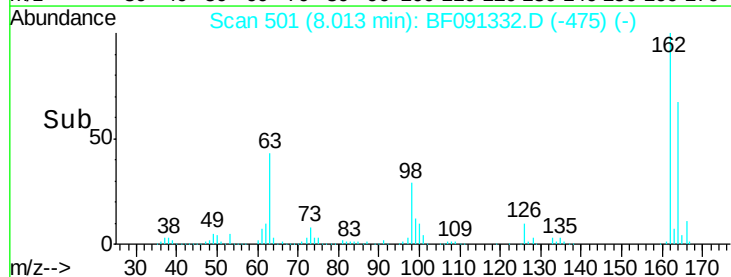
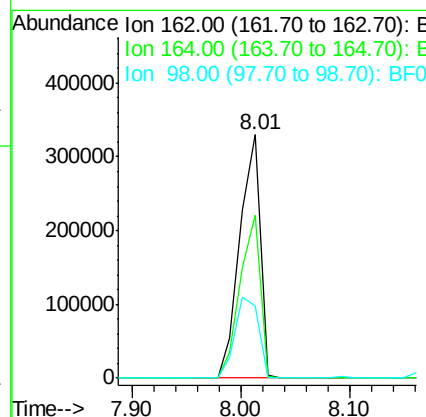
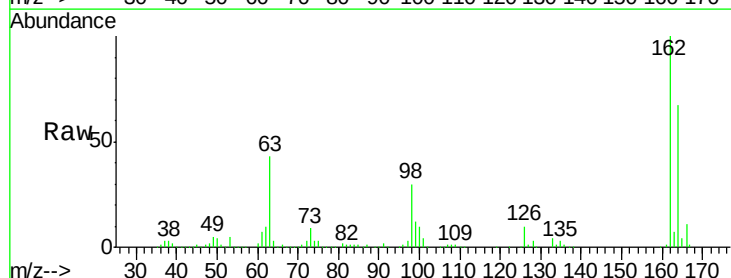
RT: 8.01 min Scan# 501

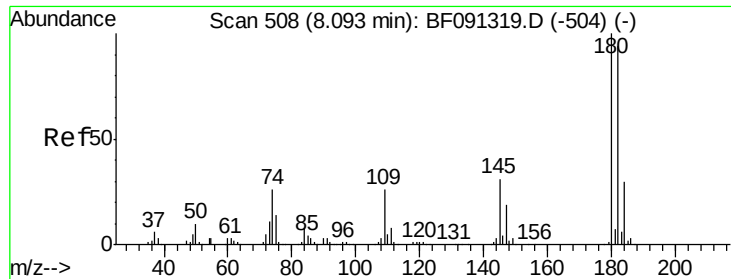
Delta R.T. -0.01 min

Lab File: BF091332.D

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Tgt Ion:	162	Resp:	424081
Ion Ratio	Lower	Upper	
162	100		
164	67.0	45.0	85.0
98	29.6	21.3	61.3





#30

1,2,4-Trichlorobenzene

Concen: 42.20 ng

RT: 8.09 min Scan# 508

Delta R.T. -0.02 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

Instrument :

BNA_F

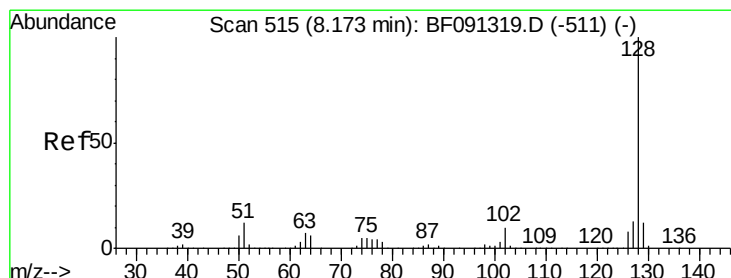
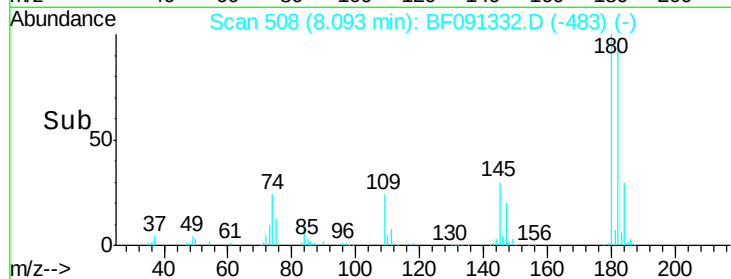
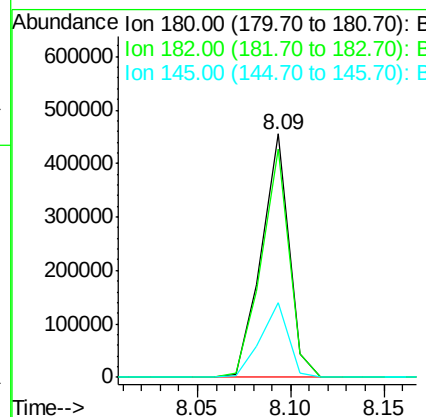
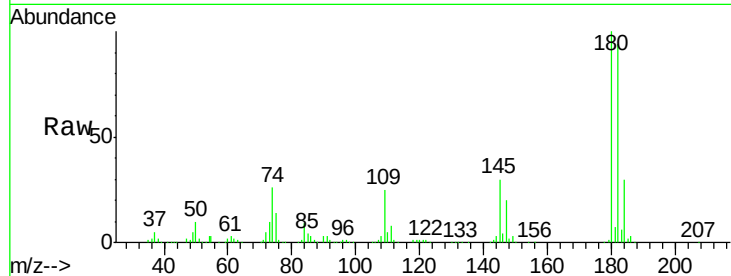
ClientSampleId :

SOIL-CUTTINGSMS

Tgt Ion:	180	Resp:	466263
Ion Ratio	Lower	Upper	
180	100		
182	94.0	75.8	113.8
145	30.4	27.0	40.4

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#31

Naphthalene

Concen: 43.71 ng

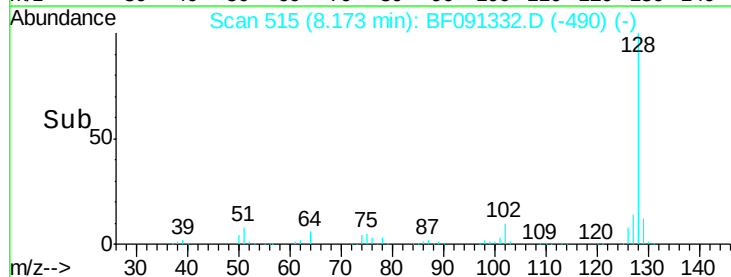
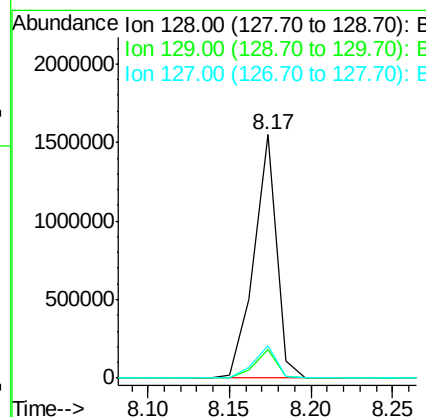
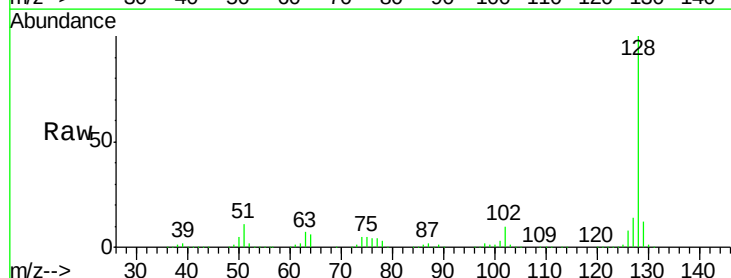
RT: 8.17 min Scan# 515

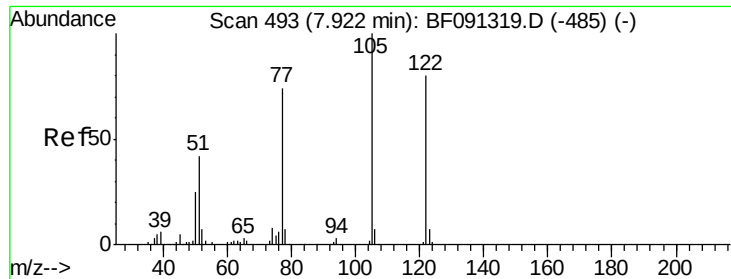
Delta R.T. -0.02 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

Tgt Ion:	128	Resp:	1494042
Ion Ratio	Lower	Upper	
128	100		
129	11.6	9.1	13.7
127	13.6	11.0	16.4





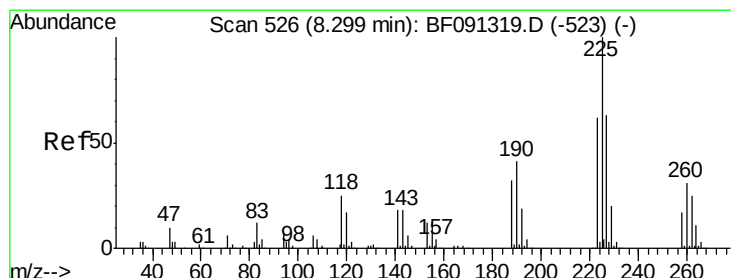
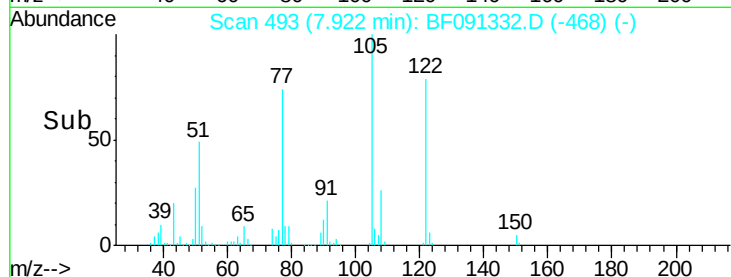
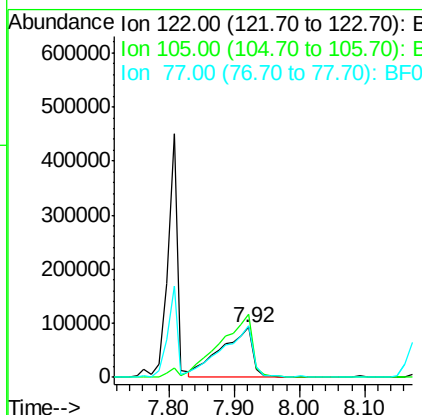
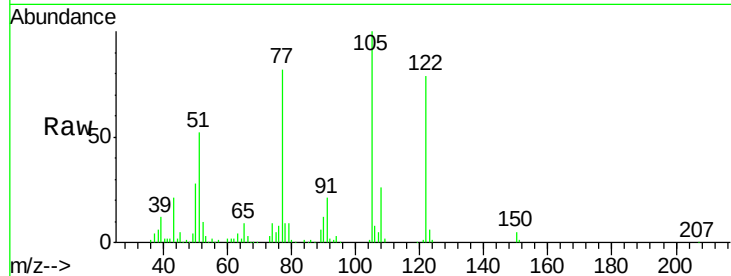
#32
Benzoic acid
Concen: 37.78 ng
RT: 7.92 min Scan# 493
Delta R.T. -0.02 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMS

Tgt Ion	Ratio	Resp	Lower	Upper
122	100			
105	127.3	113.0	153.0	
77	103.8	82.0	122.0	

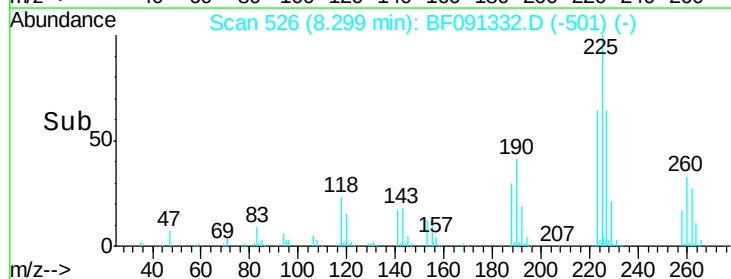
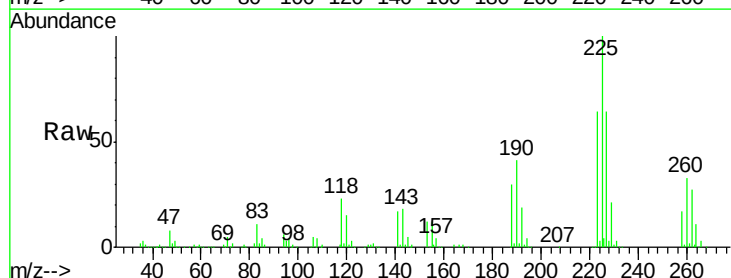
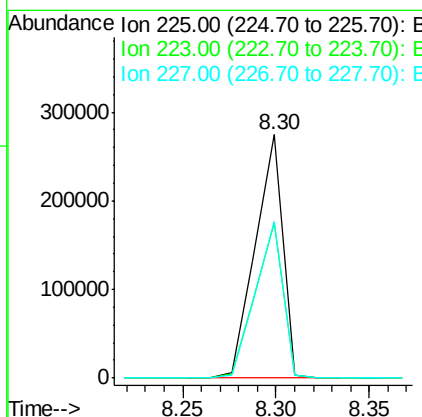
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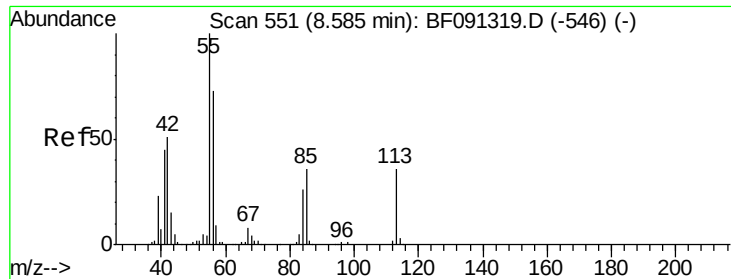
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#34
Hexachlorobutadiene
Concen: 42.14 ng
RT: 8.30 min Scan# 526
Delta R.T. -0.02 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	63.8	49.8	74.6	
227	64.3	52.6	79.0	





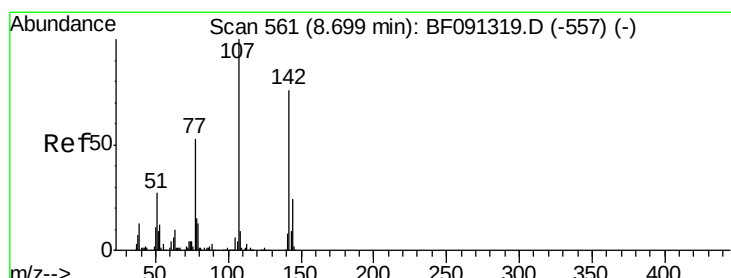
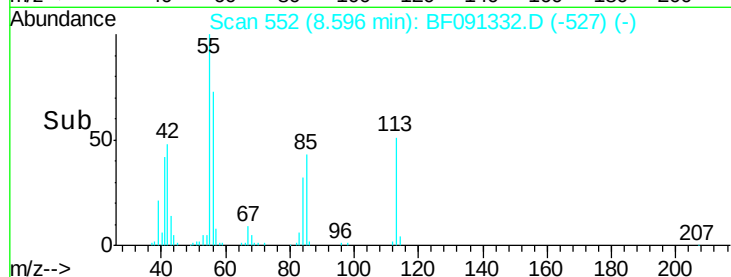
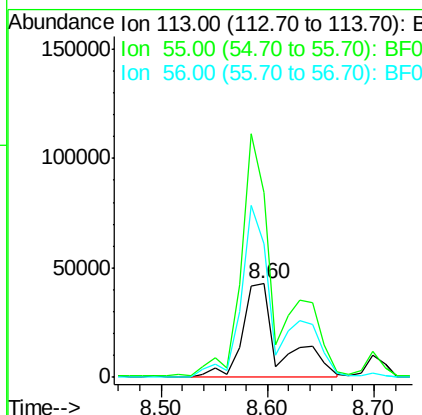
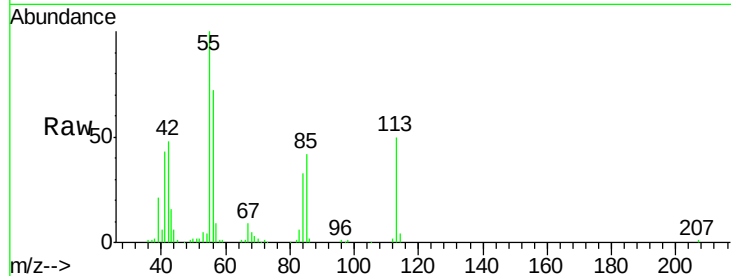
#35
 Caprolactam
 Concen: 37.91 ng m
 RT: 8.60 min Scan# 552
 Delta R.T. -0.02 min
 Lab File: BF091332.D
 Acq: 29 Nov 2016 17:41

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMS

Tgt Ion	Ratio	Lower	Upper
113	100		
55	198.6	239.8	279.8#
56	143.1	165.6	205.6#

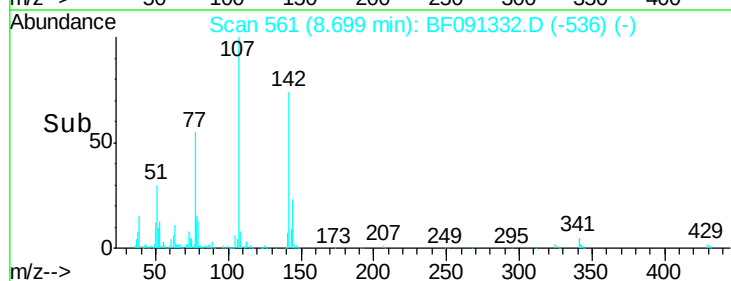
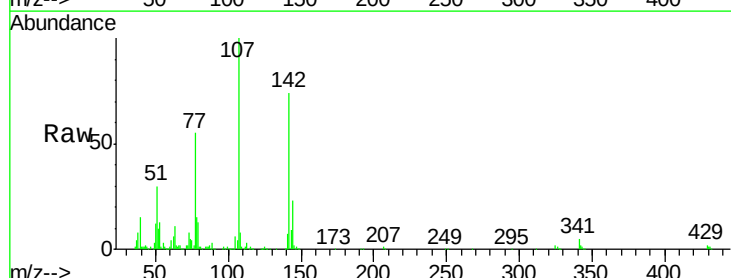
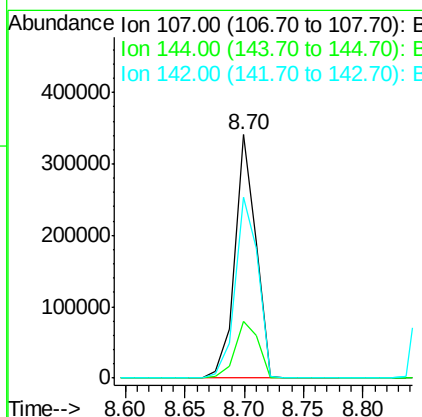
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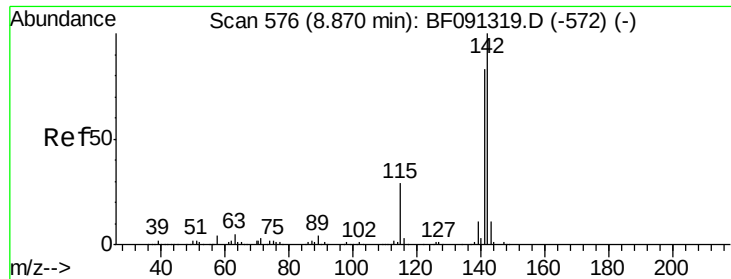
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#36
 4-Chloro-3-methylphenol
 Concen: 39.62 ng
 RT: 8.70 min Scan# 561
 Delta R.T. -0.02 min
 Lab File: BF091332.D
 Acq: 29 Nov 2016 17:41

Tgt Ion	Ratio	Lower	Upper
107	100		
144	23.2	18.9	28.3
142	74.2	58.5	87.7





#37

2-Methylnaphthalene

Concen: 43.21 ng

RT: 8.87 min Scan# 576

Delta R.T. -0.01 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMS

Tgt Ion:142 Resp: 1003548

Ion Ratio Lower Upper

142 100

141 83.3 71.7 107.5

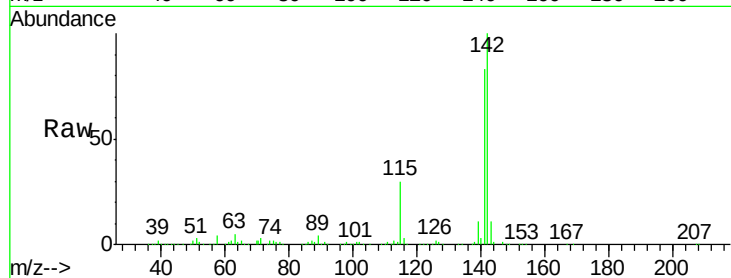
115 30.3 25.0 37.6

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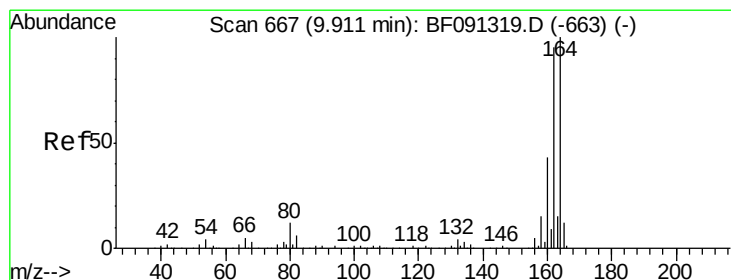
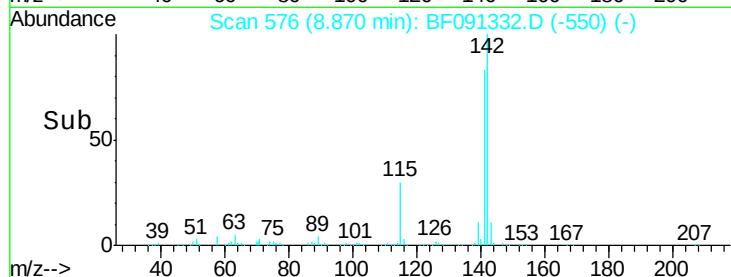
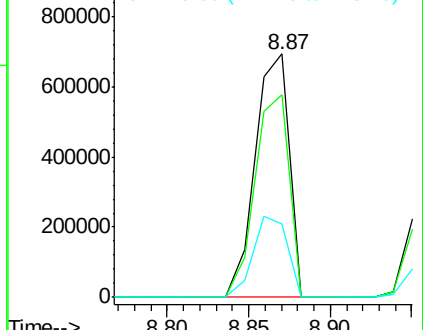
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Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.91 min Scan# 667

Delta R.T. -0.01 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

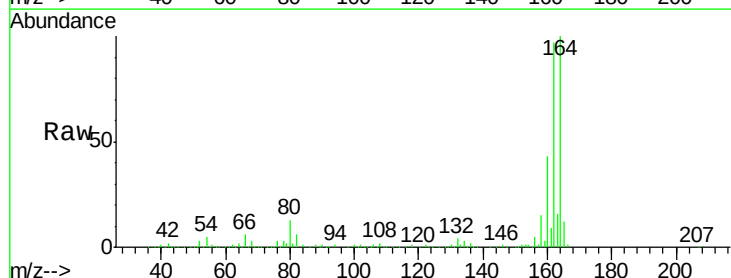
Tgt Ion:164 Resp: 414923

Ion Ratio Lower Upper

164 100

162 97.1 82.6 124.0

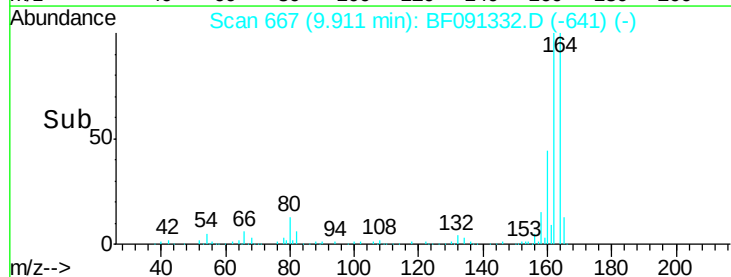
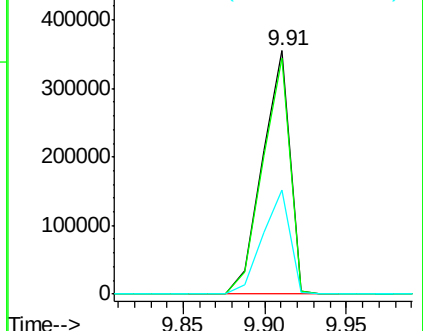
160 42.8 36.7 55.1

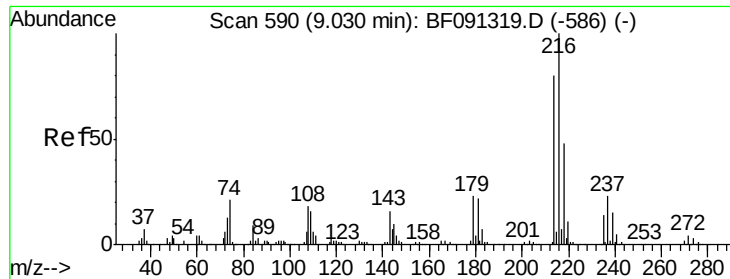


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#39

1,2,4,5-Tetrachlorobenzene

Concen: 35.96 ng

RT: 9.03 min Scan# 590

Delta R.T. -0.02 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

Instrument :

BNA_F

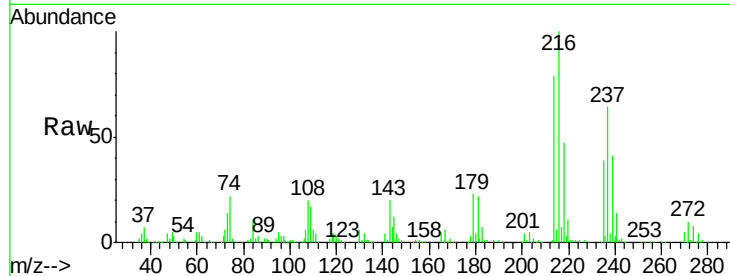
ClientSampleId :

SOIL-CUTTINGSMS

Tgt Ion:	216	Resp:	420602
Ion Ratio		Lower	Upper
216	100		
214	78.4	63.8	95.8
179	21.4	18.2	27.2
108	21.1	17.2	25.8

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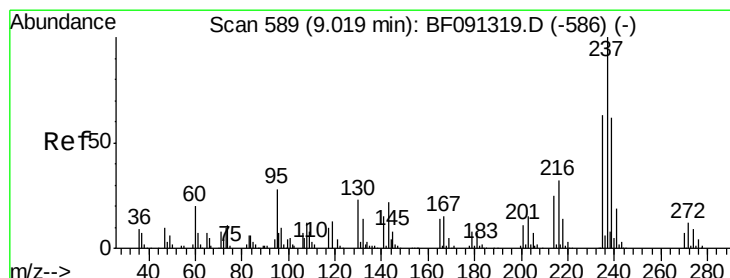
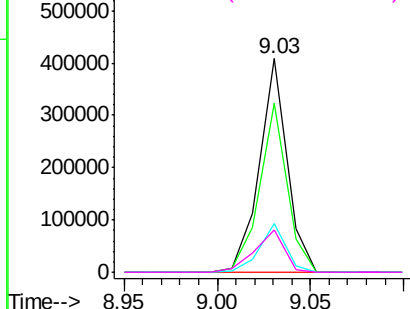
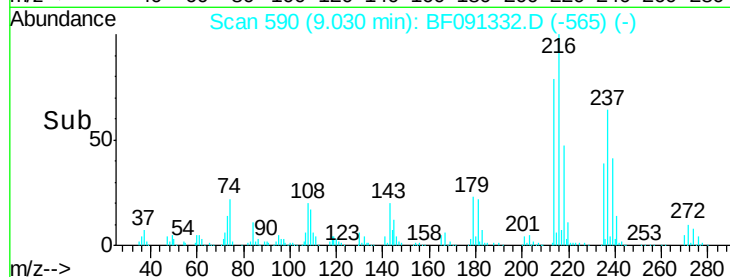
Abundance

Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E



#40

Hexachlorocyclopentadiene

Concen: 93.40 ng

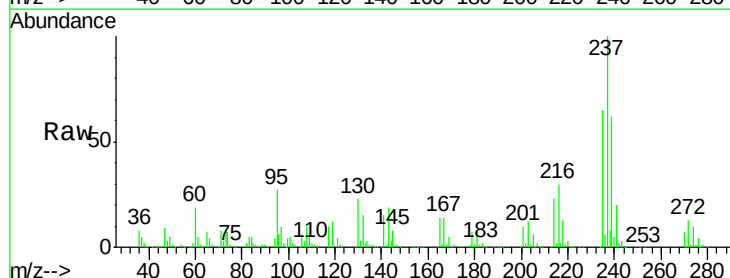
RT: 9.02 min Scan# 589

Delta R.T. -0.02 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

Tgt Ion:	237	Resp:	506412
Ion Ratio		Lower	Upper
237	100		
235	64.5	43.9	83.9
272	12.5	0.0	33.1

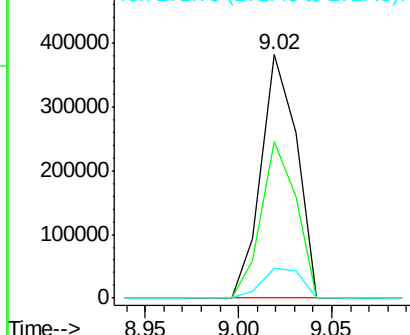
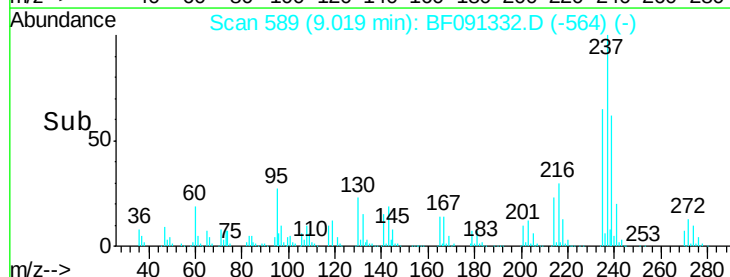


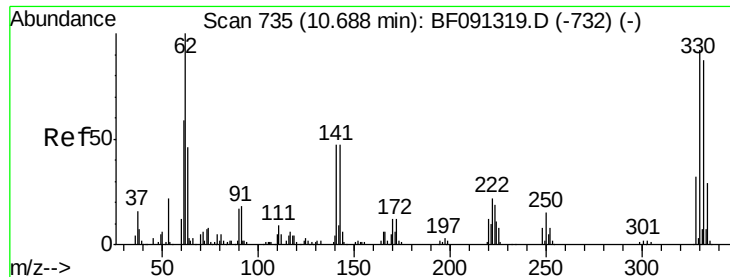
Abundance

Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E





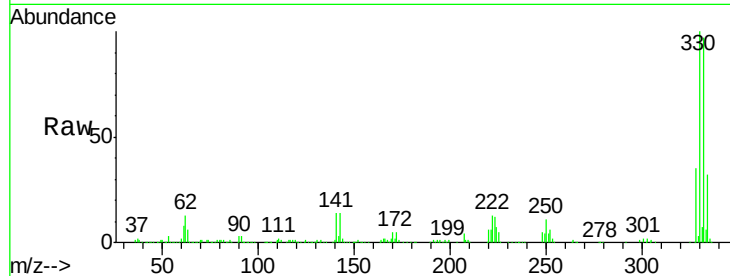
#41
 2,4,6-Tribromophenol
 Concen: 129.42 ng
 RT: 10.70 min Scan# 736
 Delta R.T. -0.01 min
 Lab File: BF091332.D
 Acq: 29 Nov 2016 17:41

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMS

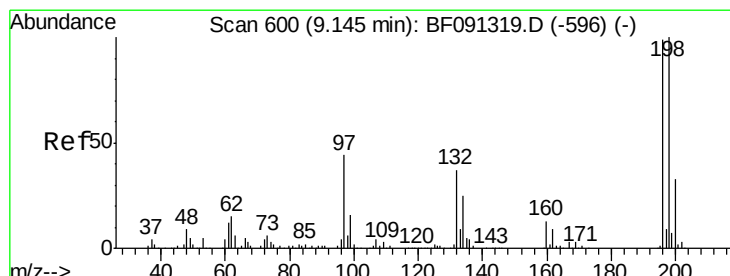
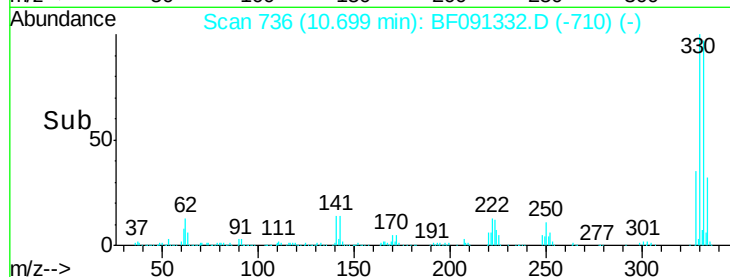
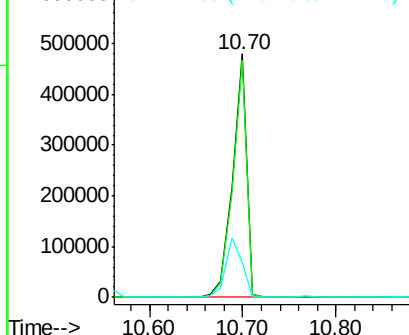
Tgt Ion	Ratio	Resp	Lower	Upper
330	100	508388		
332	97.0	76.2	114.4	
141	28.3	33.6	50.4	

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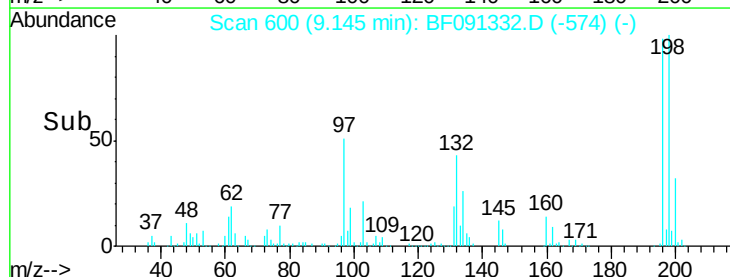
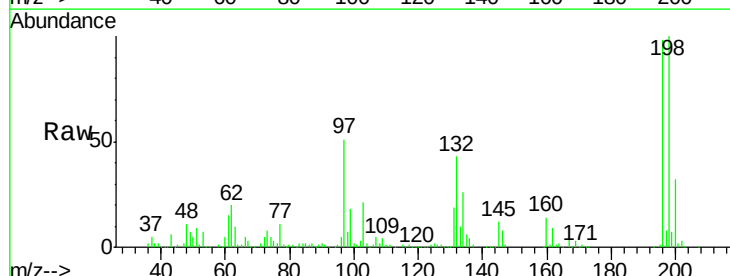
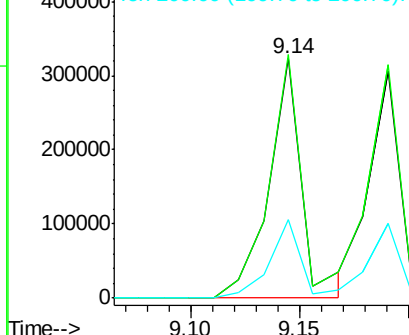
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

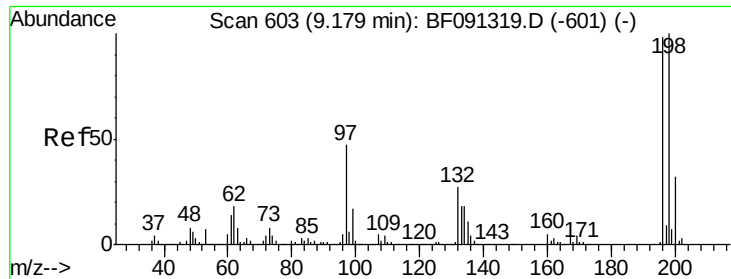


#42
 2,4,6-Trichlorophenol
 Concen: 45.52 ng
 RT: 9.14 min Scan# 600
 Delta R.T. -0.01 min
 Lab File: BF091332.D
 Acq: 29 Nov 2016 17:41

Tgt Ion	Ratio	Resp	Lower	Upper
196	100	346050		
198	101.6	77.4	116.0	
200	32.9	25.2	37.8	

Abundance Ion 196.00 (195.70 to 196.70): E
 Ion 198.00 (197.70 to 198.70): E
 Ion 200.00 (199.70 to 200.70): E





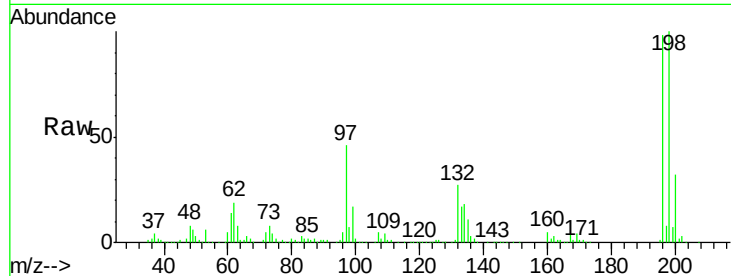
#43
 2,4,5-Trichlorophenol
 Concen: 38.76 ng
 RT: 9.19 min Scan# 604
 Delta R.T. 0.01 min
 Lab File: BF091332.D
 Acq: 29 Nov 2016 17:41

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMS

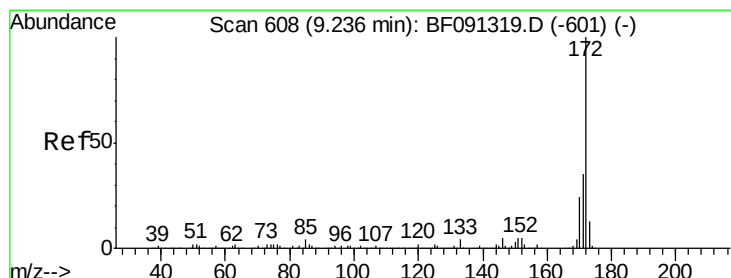
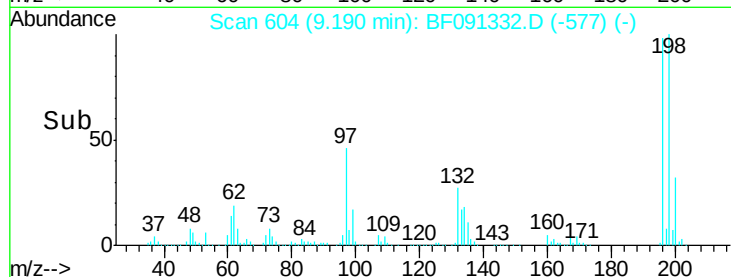
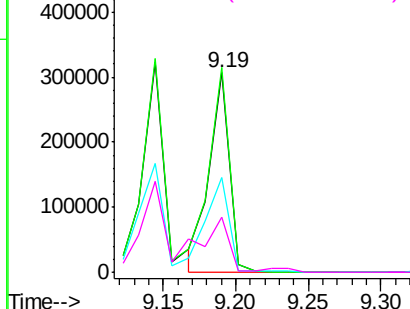
Tgt Ion:	196	Resp:	295304
Ion Ratio	Lower	Upper	
196	100		
198	102.5	77.0	115.6
97	47.5	33.5	50.3
132	27.4	20.5	30.7

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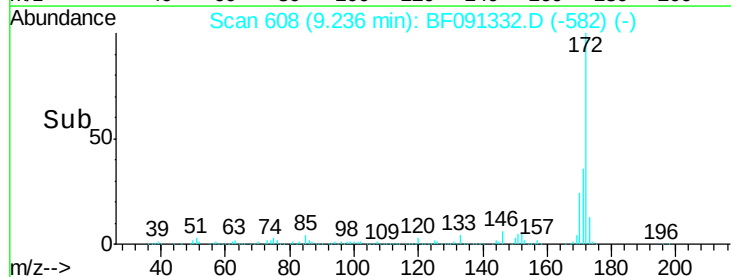
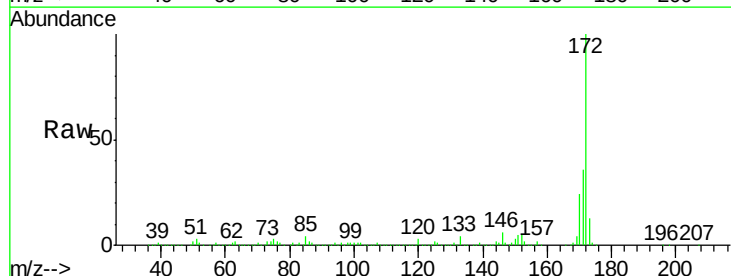
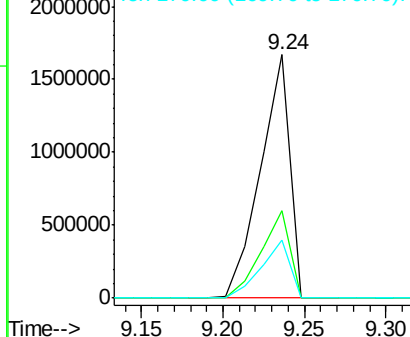
Abundance Ion 196.00 (195.70 to 196.70): E
 Ion 198.00 (197.70 to 198.70): E
 Ion 97.00 (96.70 to 97.70): BF0
 Ion 132.00 (131.70 to 132.70): E

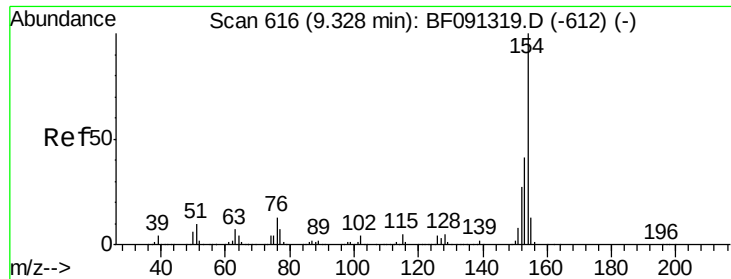


#44
 2-Fluorobiphenyl
 Concen: 91.14 ng
 RT: 9.24 min Scan# 608
 Delta R.T. -0.00 min
 Lab File: BF091332.D
 Acq: 29 Nov 2016 17:41

Tgt Ion:	172	Resp:	2088613
Ion Ratio	Lower	Upper	
172	100		
171	35.7	29.4	44.0
170	23.8	19.7	29.5

Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





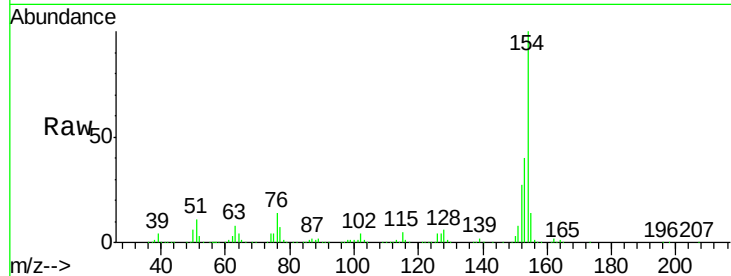
#45
1,1'-Biphenyl
Concen: 37.04 ng
RT: 9.33 min Scan# 616
Delta R.T. -0.02 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMS

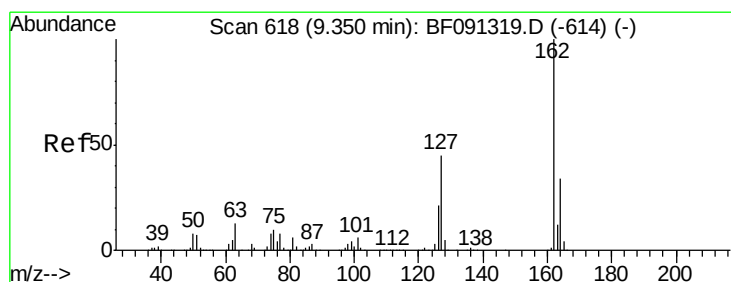
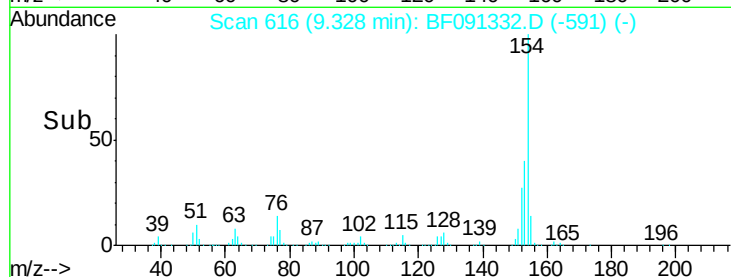
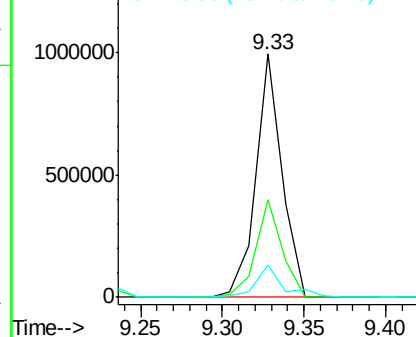
Tgt Ion	Ratio	Lower	Upper
154	100		
153	40.4	20.6	60.6
76	13.5	0.0	36.6

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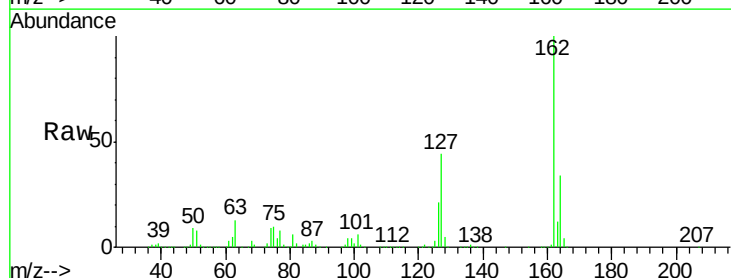


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0

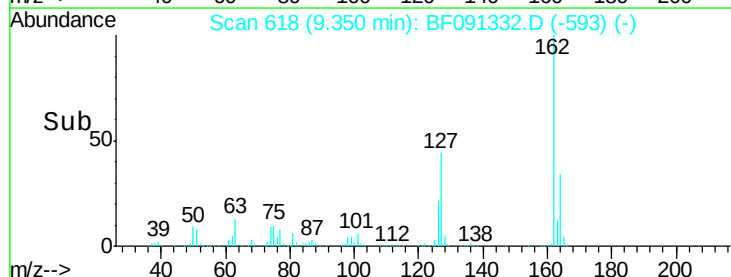
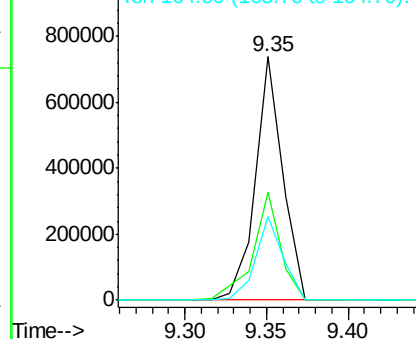


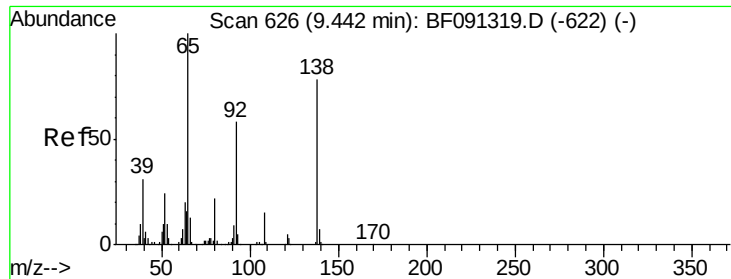
#46
2-Chloronaphthalene
Concen: 38.59 ng
RT: 9.35 min Scan# 618
Delta R.T. -0.02 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

Tgt Ion	Ratio	Lower	Upper
162	100		
127	44.3	34.3	51.5
164	34.2	26.6	40.0



Abundance Ion 162.00 (161.70 to 162.70): E
Ion 127.00 (126.70 to 127.70): E
Ion 164.00 (163.70 to 164.70): E





#47

2-Nitroaniline

Concen: 30.54 ng

RT: 9.44 min Scan# 626

Delta R.T. -0.02 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMS

Tgt Ion: 65 Resp: 243718
Ion Ratio Lower Upper

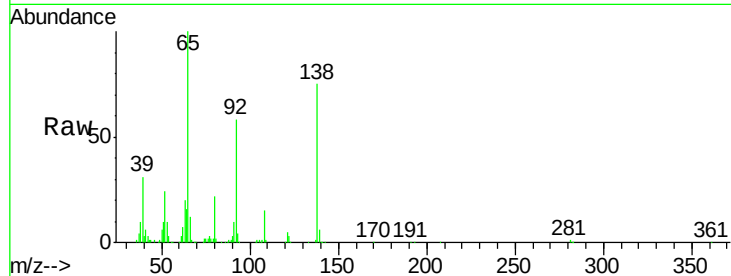
65 100

92 57.5 53.6 80.4

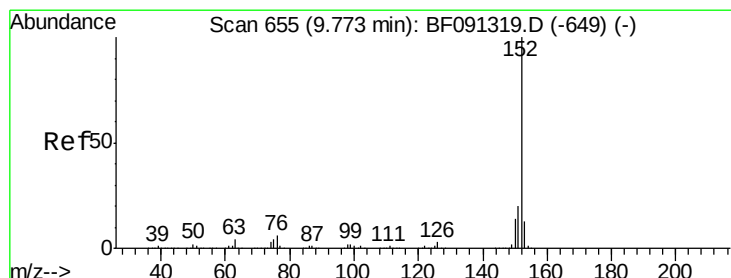
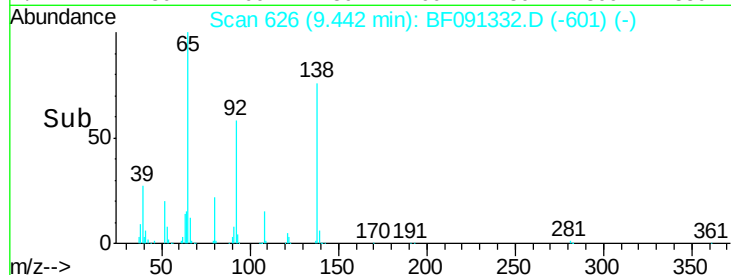
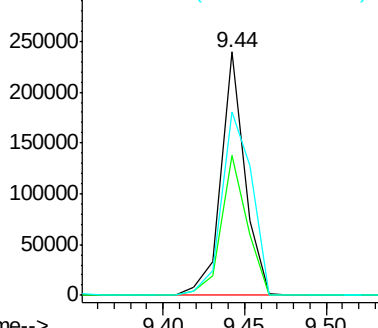
138 75.3 91.0 136.6#

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Abundance Ion 65.00 (64.70 to 65.70): BF0
Ion 92.00 (91.70 to 92.70): BF0
Ion 138.00 (137.70 to 138.70): E



#48

Acenaphthylene

Concen: 39.82 ng

RT: 9.77 min Scan# 655

Delta R.T. -0.01 min

Lab File: BF091332.D

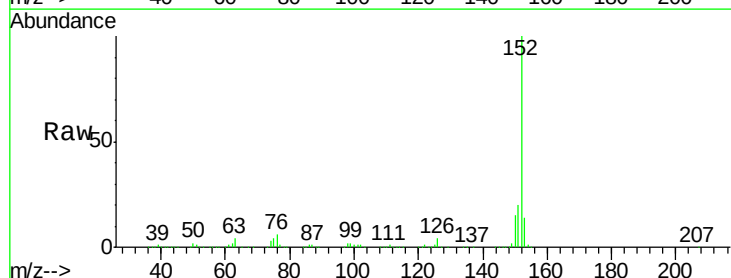
Acq: 29 Nov 2016 17:41

Tgt Ion: 152 Resp: 1392838
Ion Ratio Lower Upper

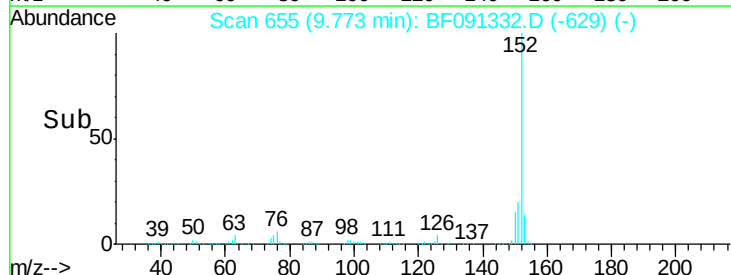
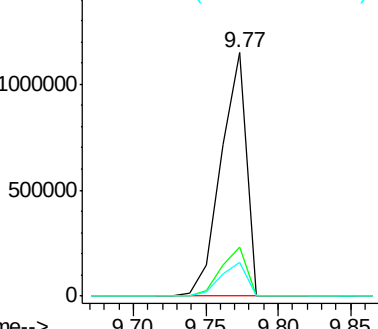
152 100

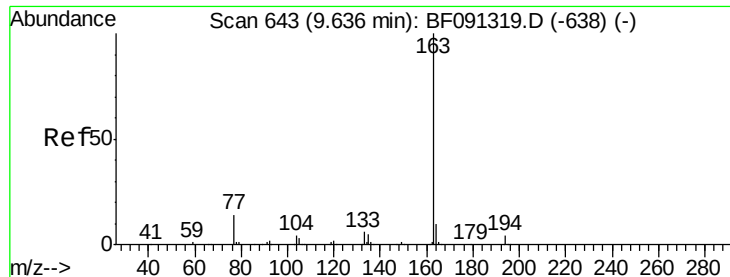
151 20.3 16.6 24.8

153 13.7 10.7 16.1



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





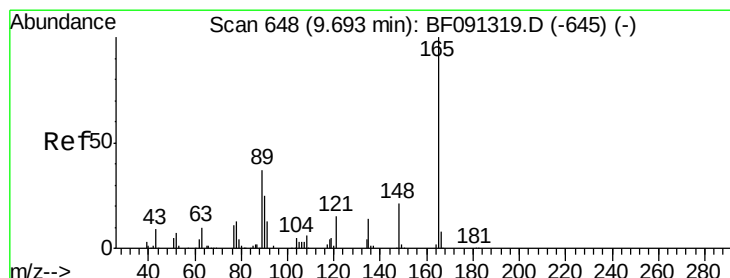
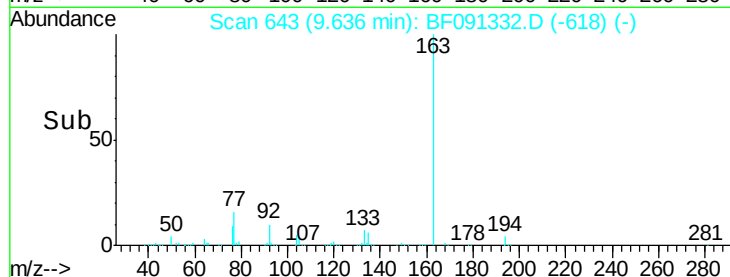
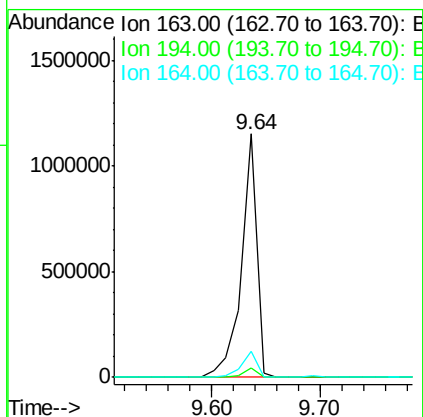
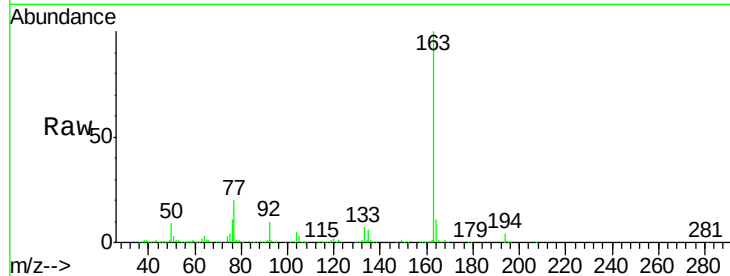
#49
Dimethylphthalate
Concen: 44.17 ng
RT: 9.64 min Scan# 643
Delta R.T. -0.02 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMS

Tgt Ion:163 Resp: 1109725
Ion Ratio Lower Upper
163 100
194 3.9 3.0 4.4
164 10.6 7.8 11.8

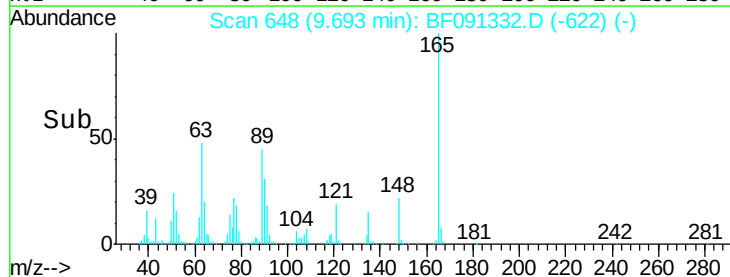
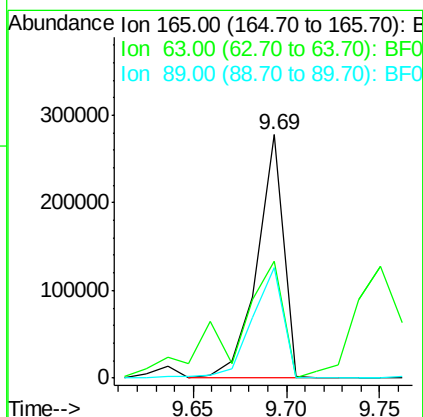
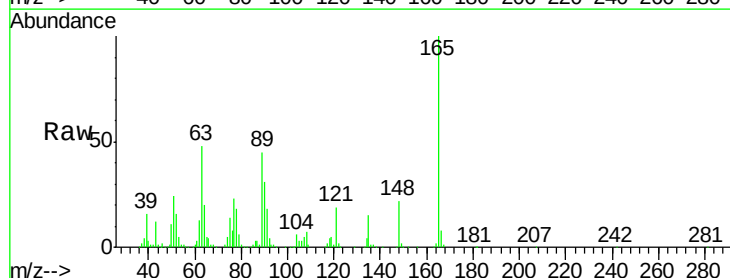
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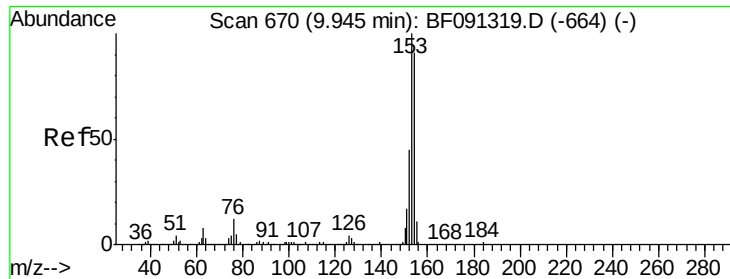
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#50
2,6-Dinitrotoluene
Concen: 48.09 ng
RT: 9.69 min Scan# 648
Delta R.T. -0.01 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

Tgt Ion:165 Resp: 270049
Ion Ratio Lower Upper
165 100
63 48.3 59.4 89.0#
89 45.5 50.8 76.2#





#51

Acenaphthene

Concen: 45.38 ng

RT: 9.94 min Scan# 670

Delta R.T. -0.01 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMS

Tgt Ion:154 Resp: 1070721

Ion Ratio Lower Upper

154 100

153 108.2 91.0 136.6

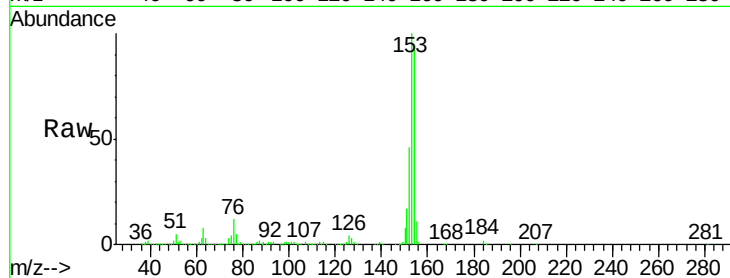
152 50.1 44.2 66.2

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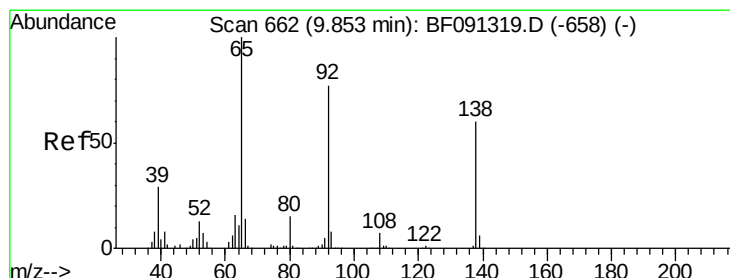
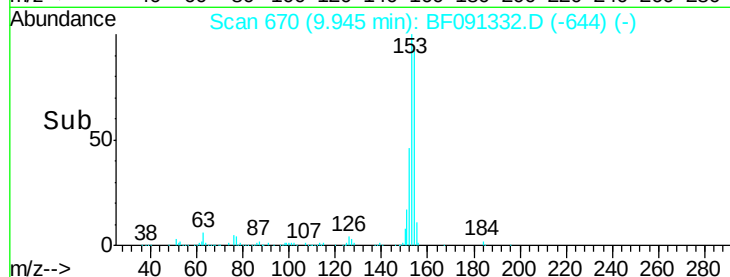
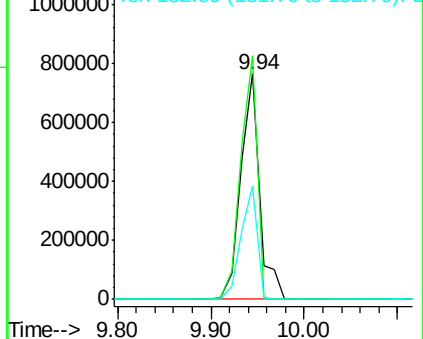
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#52

3-Nitroaniline

Concen: 7.05 ng

RT: 9.85 min Scan# 662

Delta R.T. -0.02 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

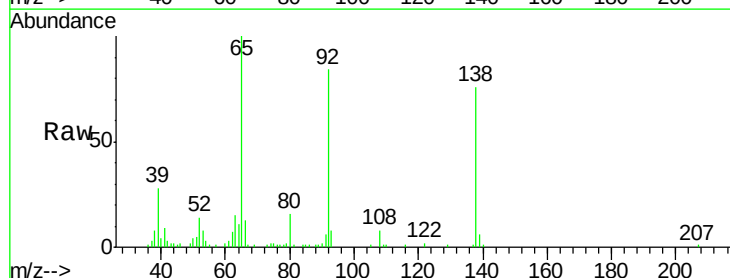
Tgt Ion:138 Resp: 45807

Ion Ratio Lower Upper

138 100

108 10.2 8.1 12.1

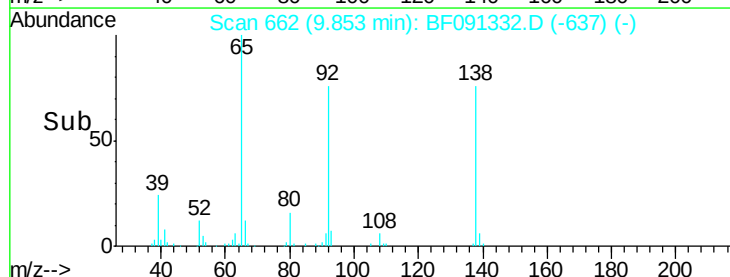
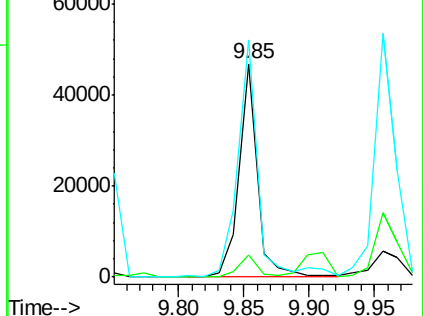
92 111.1 92.5 138.7

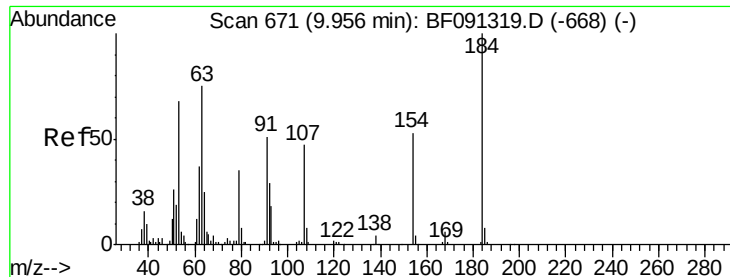


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF0





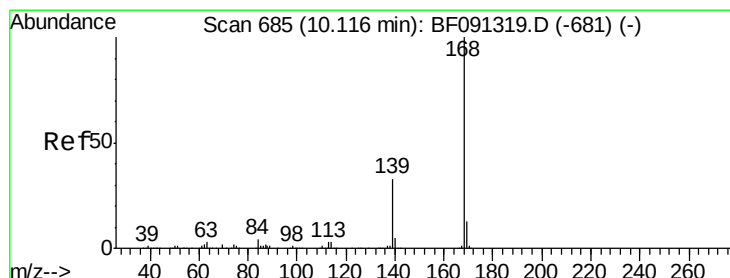
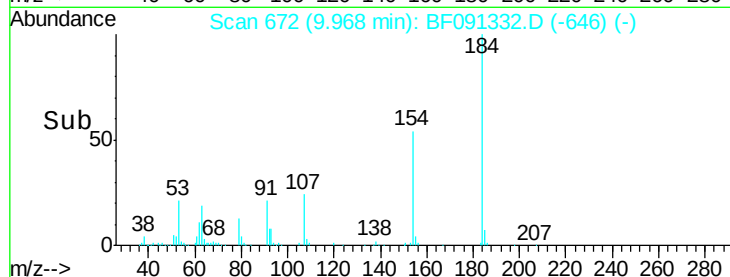
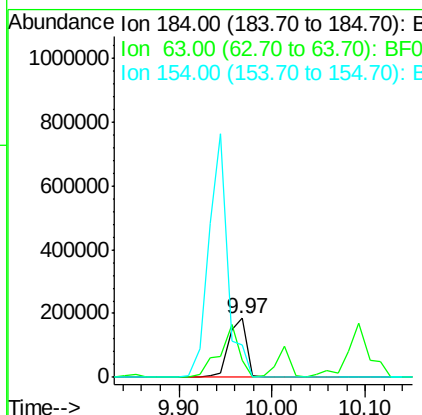
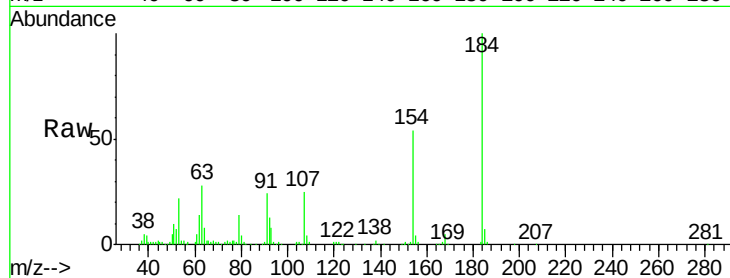
#53
2,4-Dinitrophenol
Concen: 100.86 ng
RT: 9.97 min Scan# 672
Delta R.T. -0.01 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMS

Tgt Ion	Ratio	Lower	Upper
184	100		
63	27.9	58.3	87.5#
154	54.2	48.6	73.0

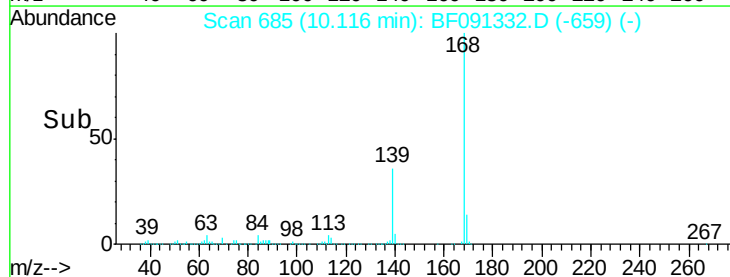
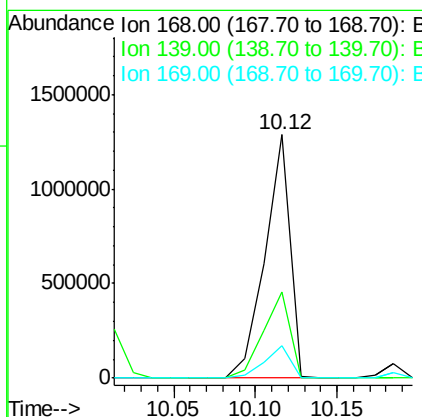
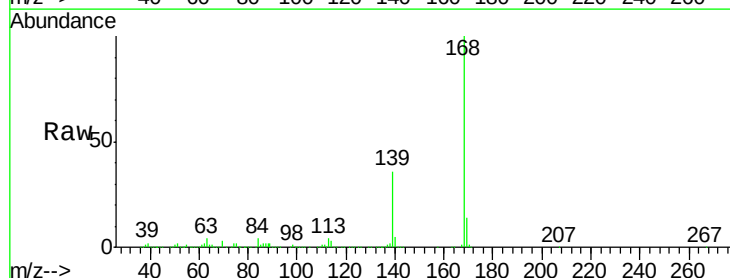
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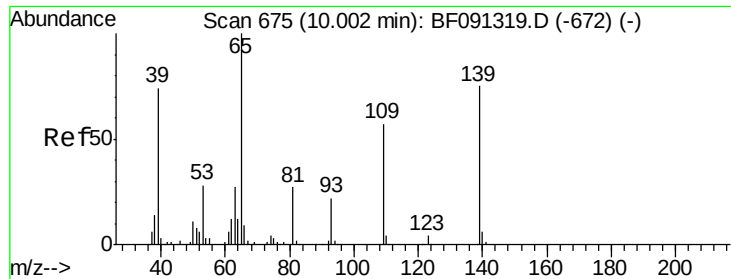
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#54
Dibenzofuran
Concen: 43.59 ng
RT: 10.12 min Scan# 685
Delta R.T. -0.00 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

Tgt Ion	Ratio	Lower	Upper
168	100		
139	35.5	33.4	50.2
169	13.6	11.1	16.7





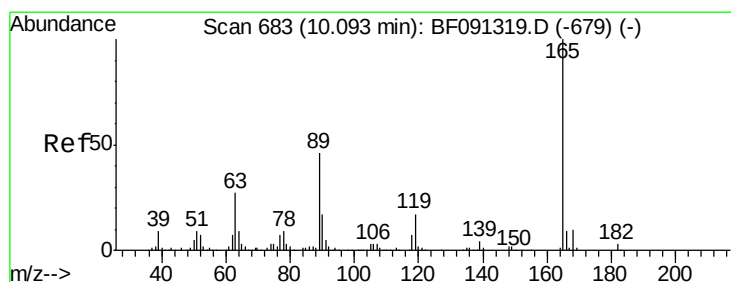
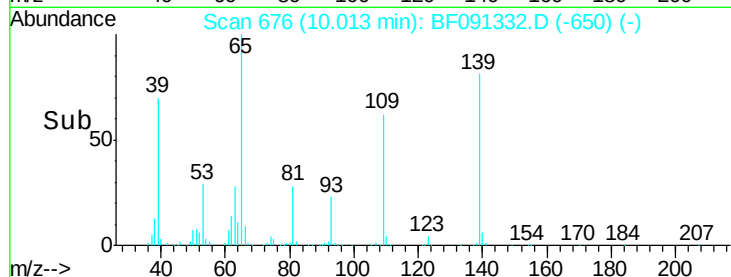
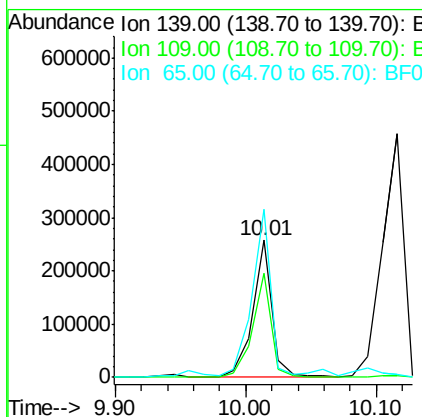
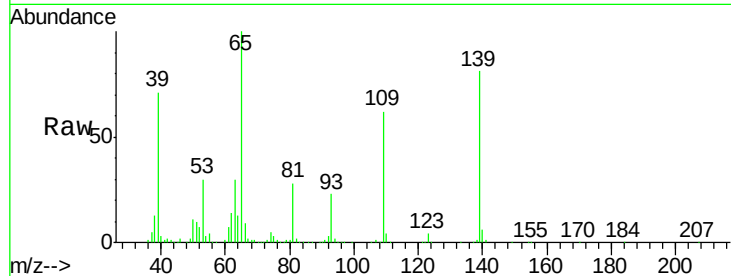
#55
4-Nitrophenol
Concen: 55.86 ng
RT: 10.01 min Scan# 676
Delta R.T. -0.01 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMS

Tgt Ion	Ratio	Resp	Lower	Upper
139	100	262253		
109	75.7	54.9	94.9	
65	123.1	102.2	142.2	

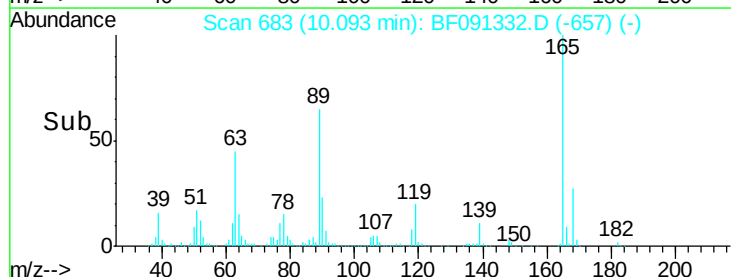
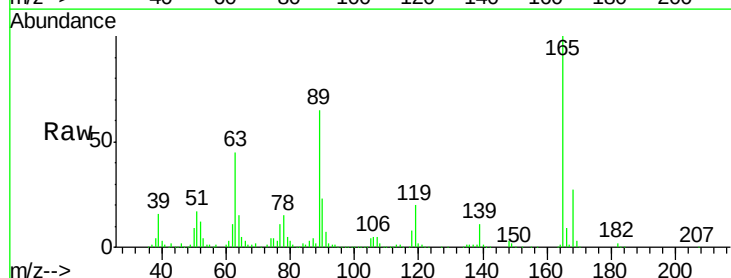
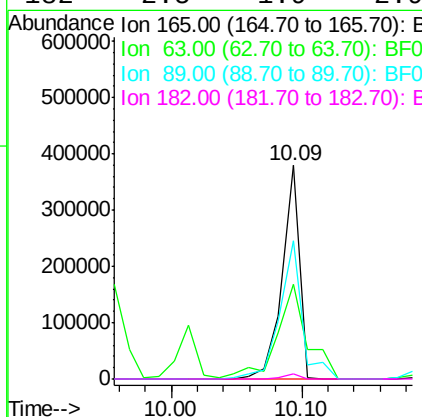
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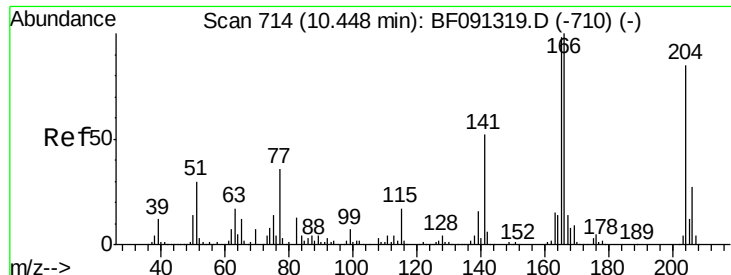
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#56
2,4-Dinitrotoluene
Concen: 48.78 ng
RT: 10.09 min Scan# 683
Delta R.T. -0.01 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

Tgt Ion	Ratio	Resp	Lower	Upper
165	100	355301		
63	44.6	29.0	43.4#	
89	64.7	43.1	64.7#	
182	2.5	1.9	2.9	





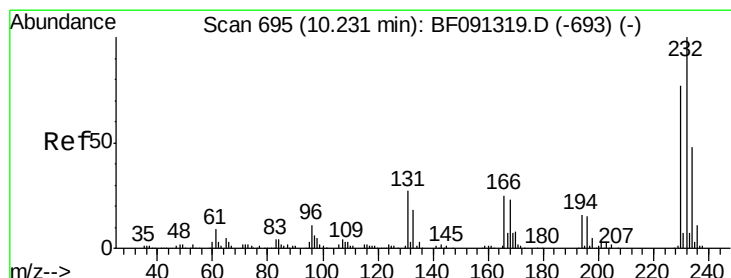
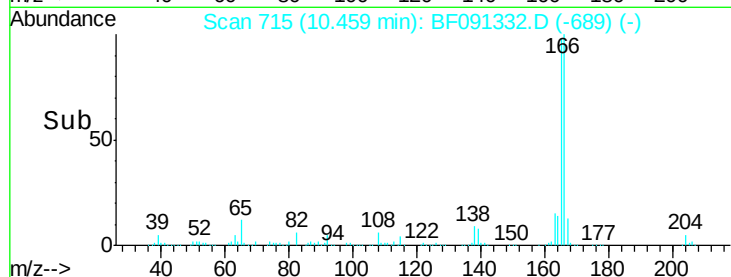
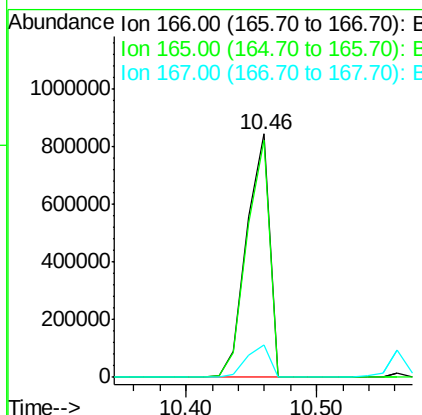
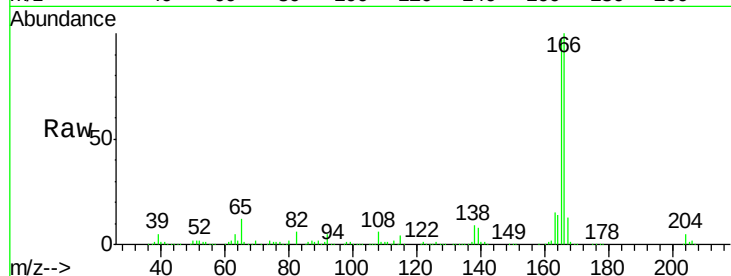
#57
Fluorene
 Concen: 42.47 ng
 RT: 10.46 min Scan# 715
 Delta R.T. -0.00 min
 Lab File: BF091332.D
 Acq: 29 Nov 2016 17:41

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMS

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.5	80.0	120.0
167	13.3	10.8	16.2

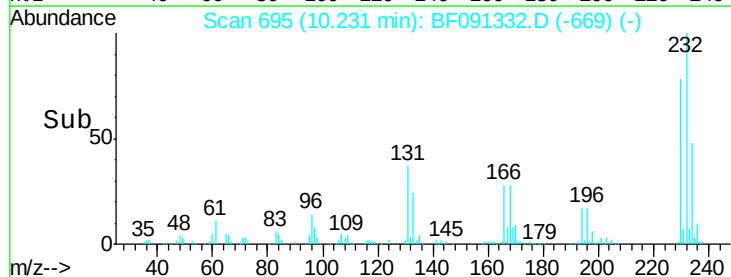
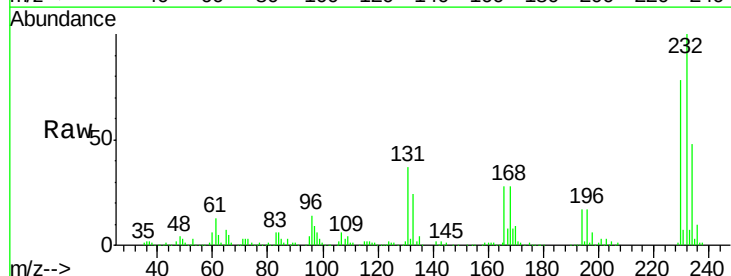
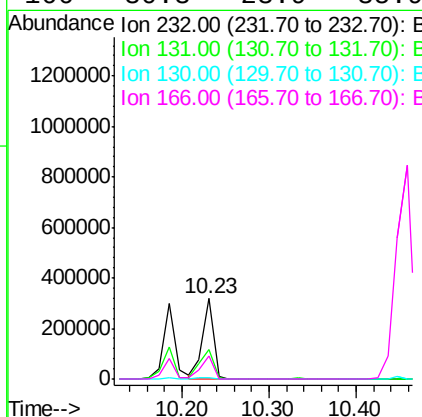
Manual Integrations
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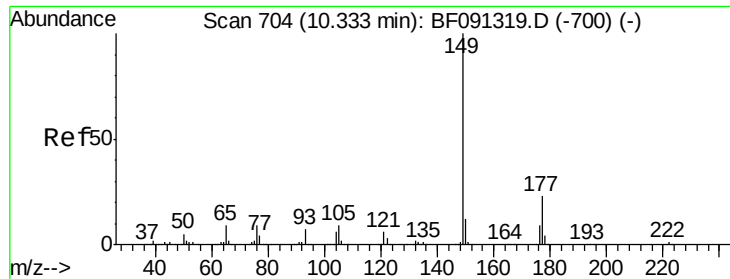
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#58
2,3,4,6-Tetrachlorophenol
 Concen: 43.82 ng
 RT: 10.23 min Scan# 695
 Delta R.T. -0.01 min
 Lab File: BF091332.D
 Acq: 29 Nov 2016 17:41

Tgt Ion	Ratio	Lower	Upper
232	100		
131	43.4	38.4	57.6
130	2.1	1.8	2.8
166	30.3	23.9	35.9





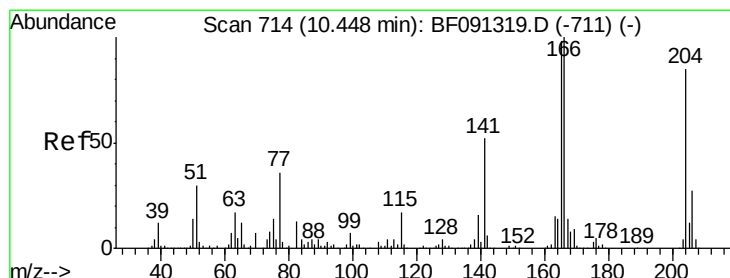
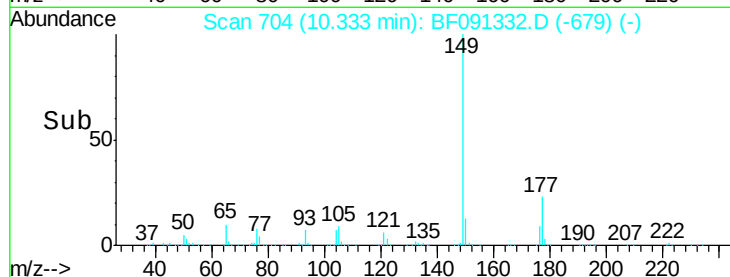
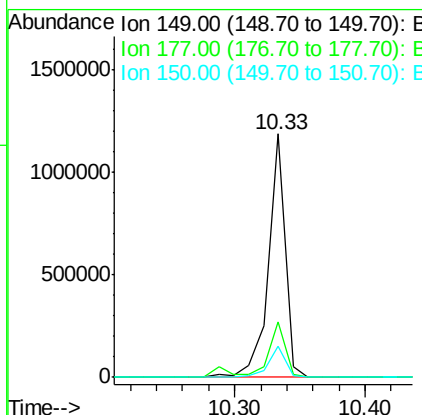
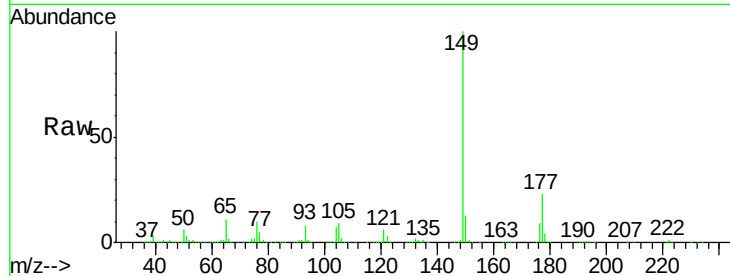
#59
Diethylphthalate
Concen: 43.78 ng
RT: 10.33 min Scan# 704
Delta R.T. -0.02 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMS

Tgt Ion:149 Resp: 1085676
Ion Ratio Lower Upper
149 100
177 22.7 15.7 23.5
150 12.5 10.2 15.2

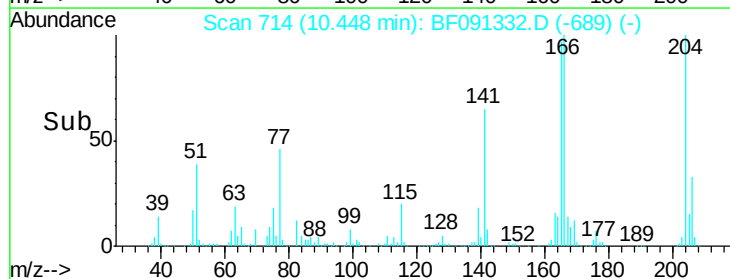
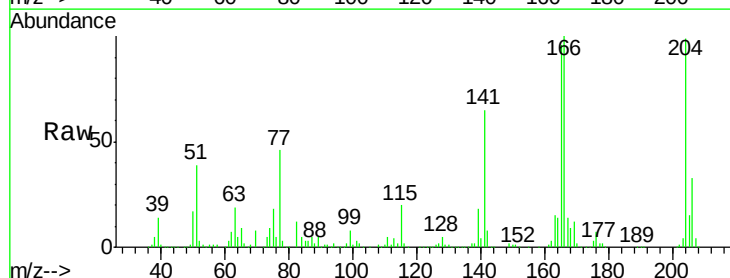
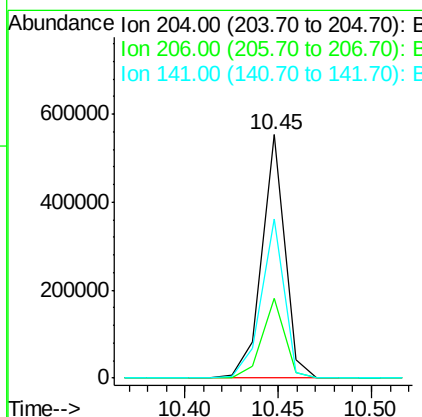
Manual Integrations
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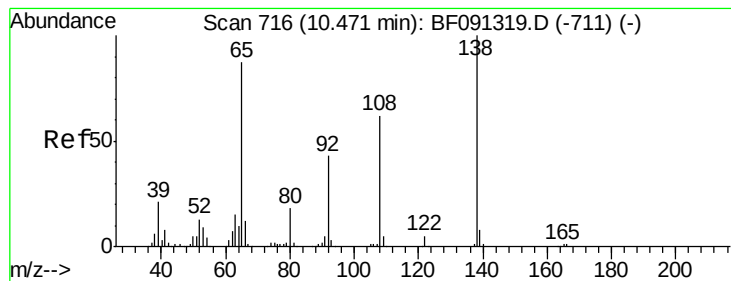
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#60
4-Chlorophenyl-phenylether
Concen: 38.53 ng
RT: 10.45 min Scan# 714
Delta R.T. -0.02 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

Tgt Ion:204 Resp: 468621
Ion Ratio Lower Upper
204 100
206 32.9 26.1 39.1
141 65.2 40.6 61.0#





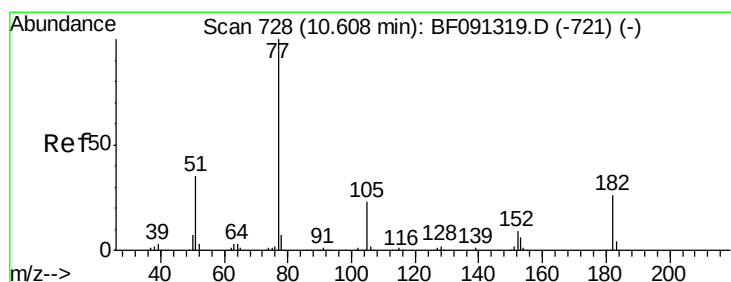
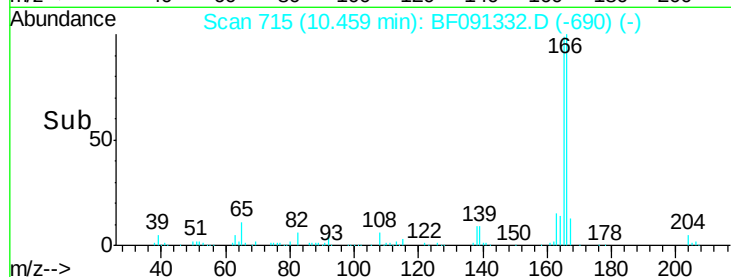
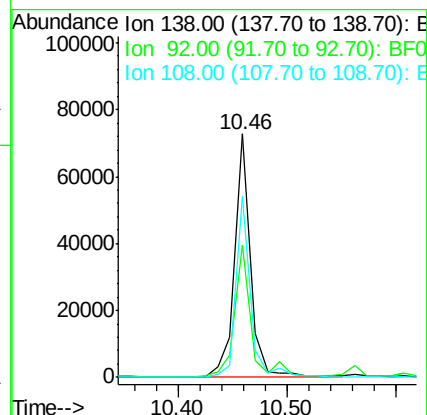
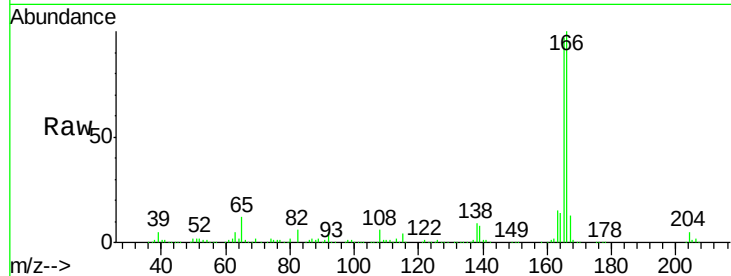
#61
4-Nitroaniline
Concen: 11.98 ng
RT: 10.46 min Scan# 715
Delta R.T. -0.02 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMS

Tgt Ion	Ratio	Lower	Upper
138	100		
92	54.1	26.9	66.9
108	74.2	49.1	89.1

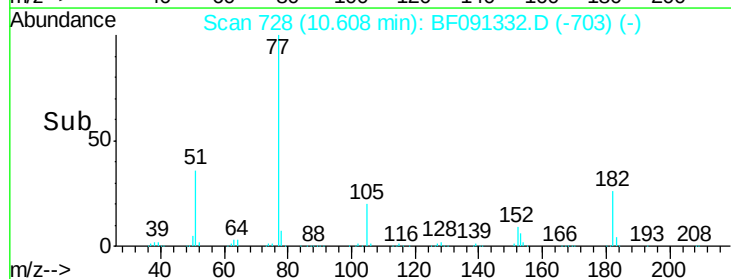
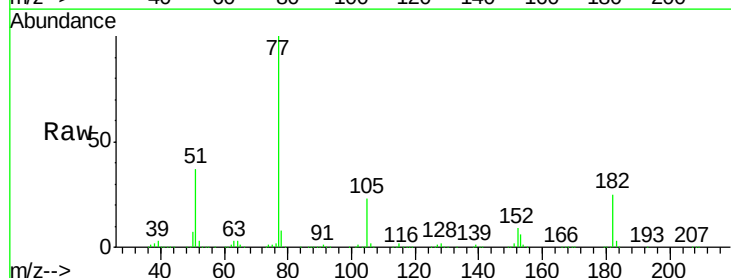
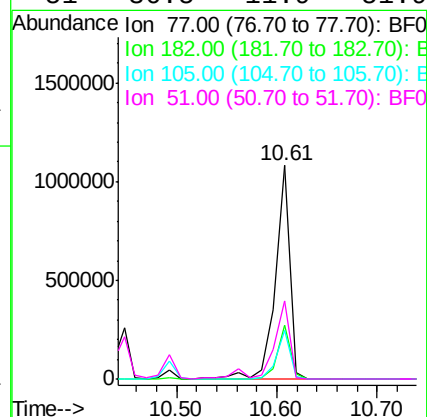
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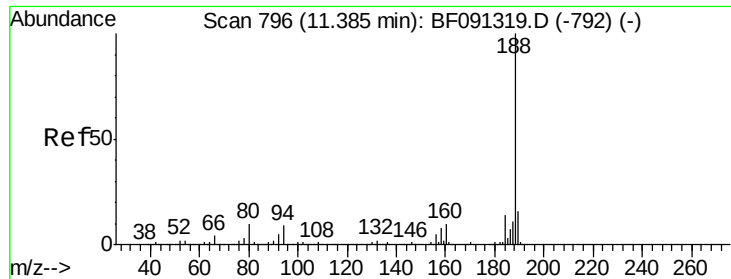
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#62
Azobenzene
Concen: 42.62 ng
RT: 10.61 min Scan# 728
Delta R.T. -0.02 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

Tgt Ion	Ratio	Lower	Upper
77	100		
182	25.4	12.5	52.5
105	22.8	3.7	43.7
51	36.5	11.9	51.9





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.38 min Scan# 796

Delta R.T. -0.02 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMS

Tgt Ion:188 Resp: 640249
Ion Ratio Lower Upper

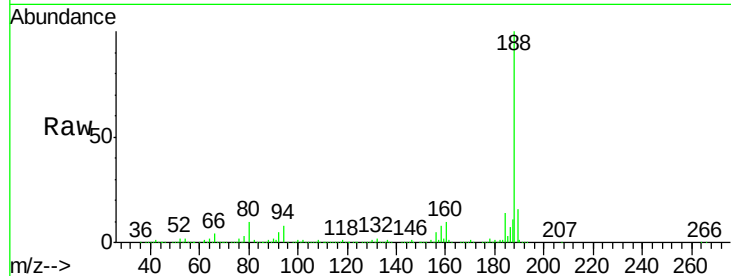
188 100

94 8.5 9.2 13.8#

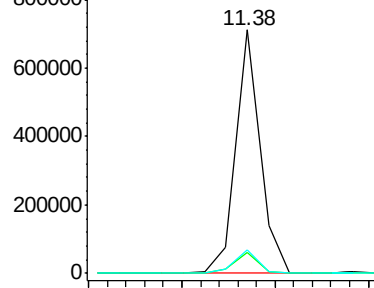
80 9.6 10.5 15.7#

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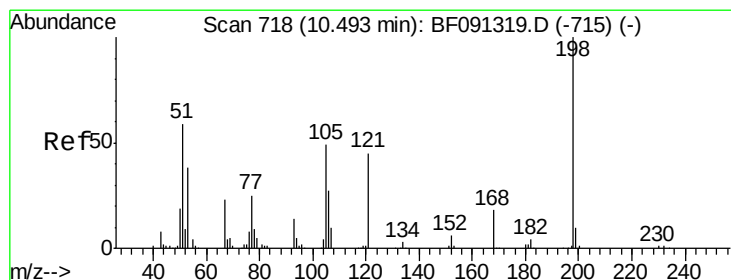
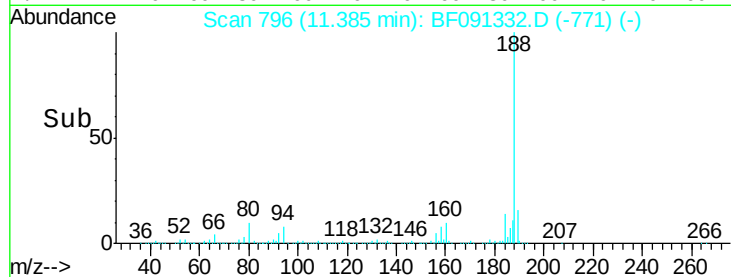
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Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0



Time--> 11.30 11.35 11.40



#64

4,6-Dinitro-2-methylphenol

Concen: 42.59 ng

RT: 10.49 min Scan# 718

Delta R.T. -0.02 min

Lab File: BF091332.D

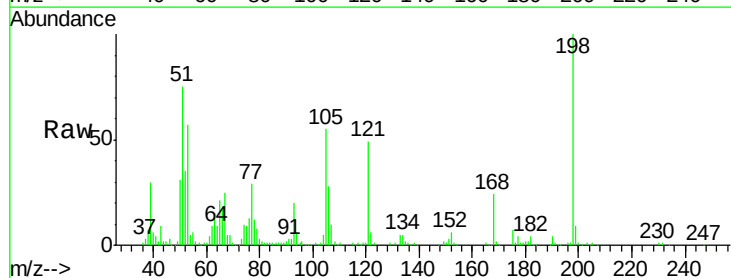
Acq: 29 Nov 2016 17:41

Tgt Ion:198 Resp: 150241
Ion Ratio Lower Upper

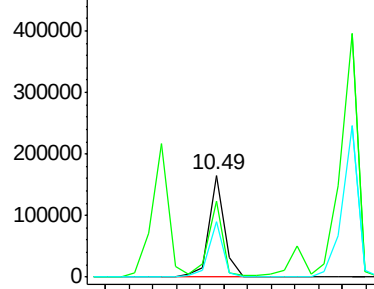
198 100

51 75.0 77.1 117.1#

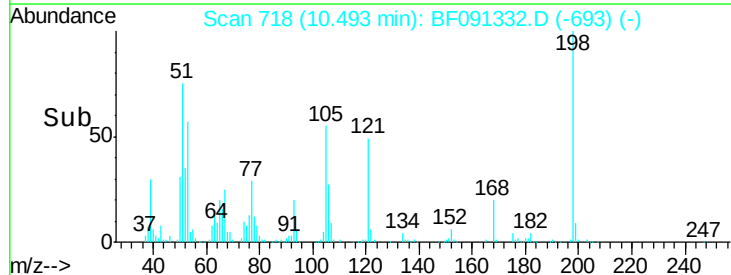
105 54.6 44.8 84.8

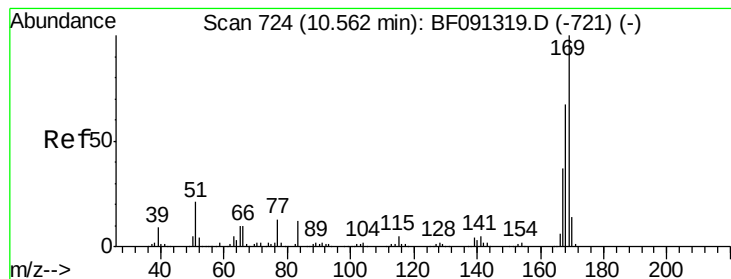


Abundance Ion 198.00 (197.70 to 198.70): E
Ion 51.00 (50.70 to 51.70): BF0
Ion 105.00 (104.70 to 105.70): E



Time--> 10.40 10.50 10.60





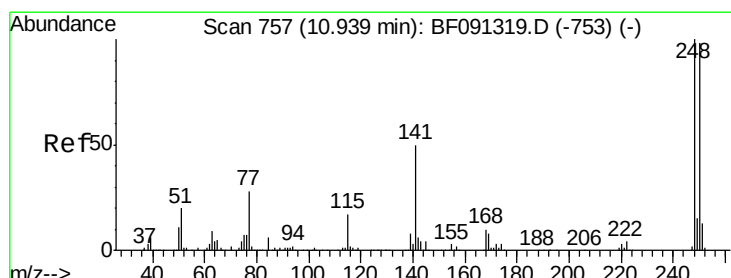
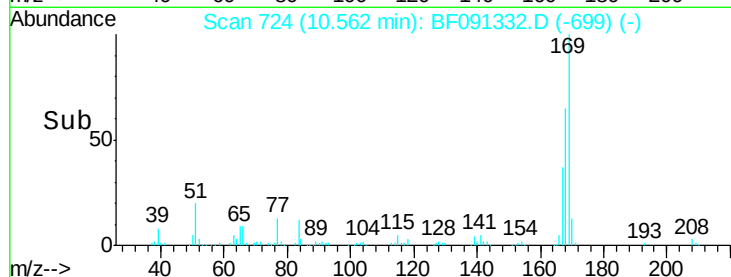
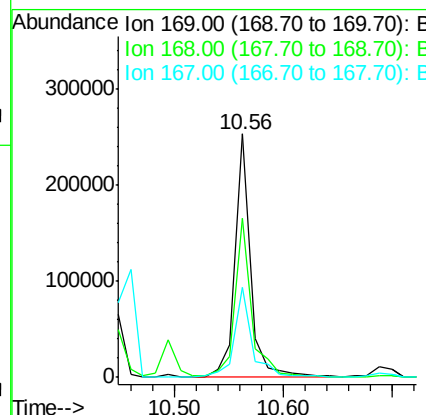
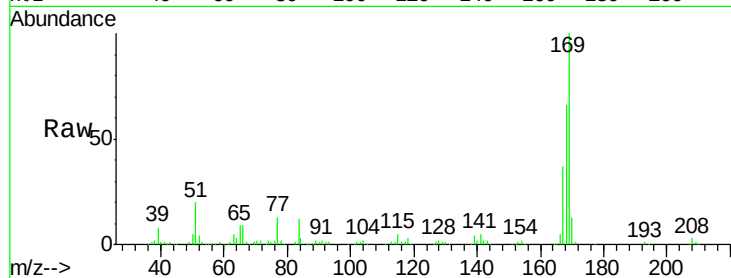
#65
 n-Nitrosodiphenylamine
 Concen: 12.72 ng
 RT: 10.56 min Scan# 724
 Delta R.T. -0.02 min
 Lab File: BF091332.D
 Acq: 29 Nov 2016 17:41

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMS

Tgt Ion	Ratio	Resp	Lower	Upper
169	100	246823		
168	65.6	53.8	80.8	
167	36.7	29.8	44.8	

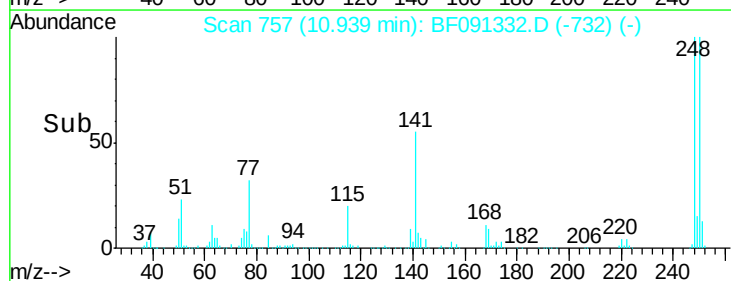
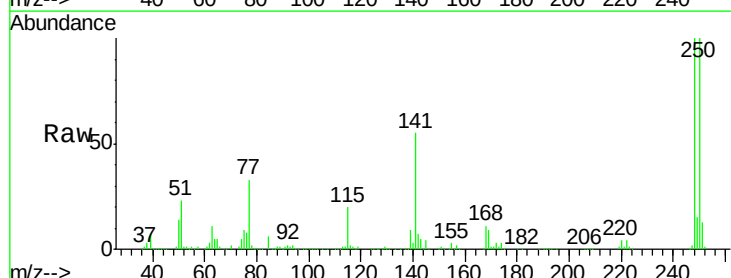
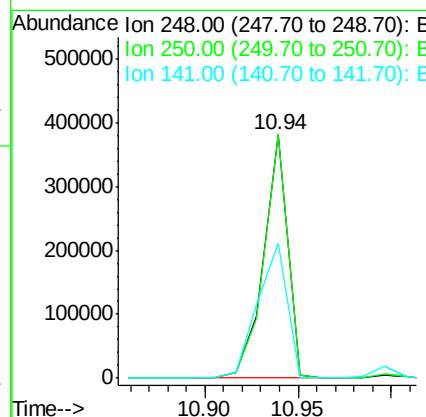
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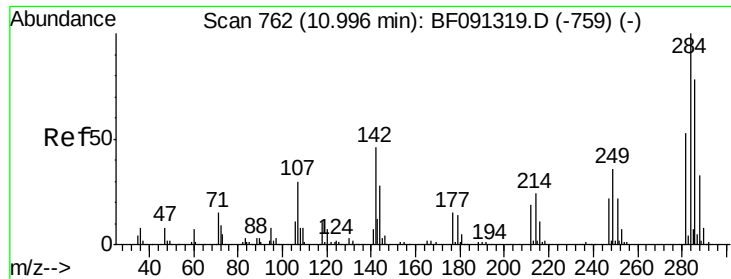
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#66
 4-Bromophenyl-phenylether
 Concen: 49.02 ng
 RT: 10.94 min Scan# 757
 Delta R.T. -0.02 min
 Lab File: BF091332.D
 Acq: 29 Nov 2016 17:41

Tgt Ion	Ratio	Resp	Lower	Upper
248	100	337324		
250	99.9	78.2	117.4	
141	55.4	71.9	107.9#	





#67

Hexachlorobenzene

Concen: 43.27 ng

RT: 11.00 min Scan# 762

Delta R.T. -0.02 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

Instrument :

BNA_F

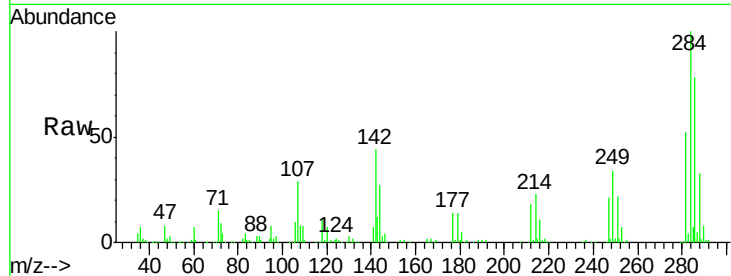
ClientSampleId :

SOIL-CUTTINGSMS

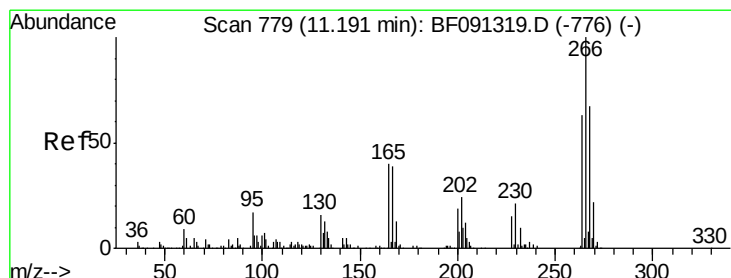
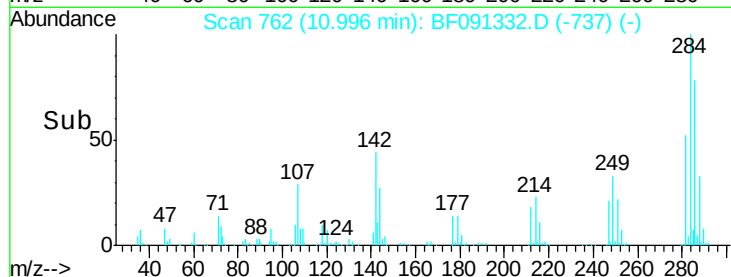
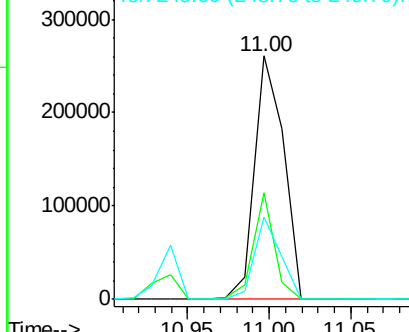
Tgt	Ion:284	Resp:	321755
Ion	Ratio	Lower	Upper
284	100		
142	44.0	17.9	26.9#
249	33.6	23.6	35.4

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Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E



#69

Pentachlorophenol

Concen: 81.09 ng

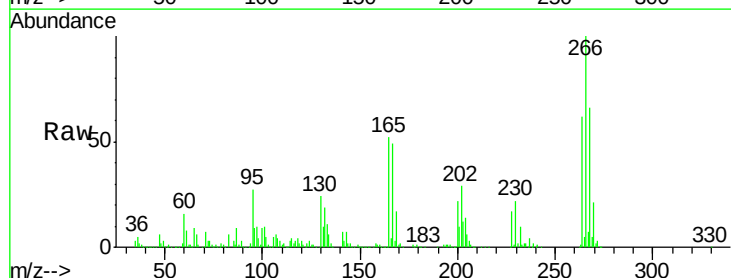
RT: 11.19 min Scan# 779

Delta R.T. -0.02 min

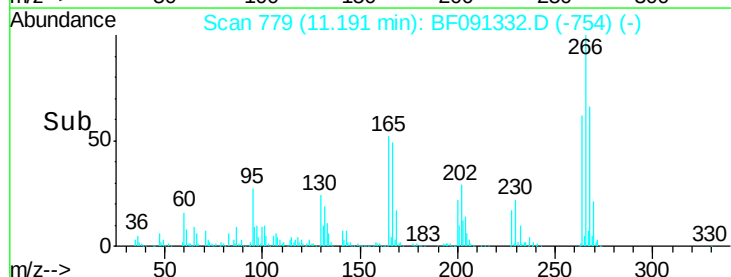
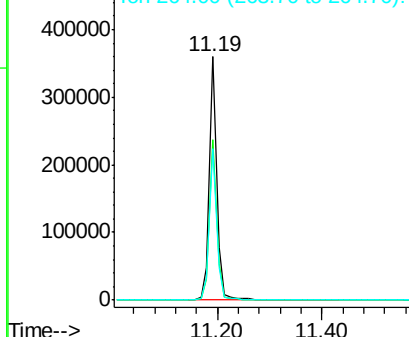
Lab File: BF091332.D

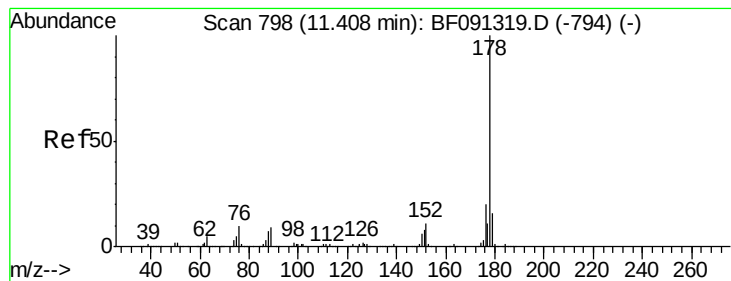
Acq: 29 Nov 2016 17:41

Tgt	Ion:266	Resp:	355004
Ion	Ratio	Lower	Upper
266	100		
268	65.8	50.3	75.5
264	62.2	48.2	72.2



Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E





#70

Phenanthrene

Concen: 41.94 ng

RT: 11.41 min Scan# 798

Delta R.T. -0.02 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMS

Tgt Ion:178 Resp: 1395322

Ion Ratio Lower Upper

178 100

176 19.8 15.9 23.9

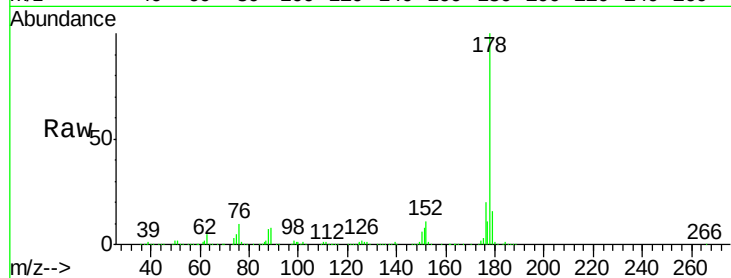
179 16.0 12.6 18.8

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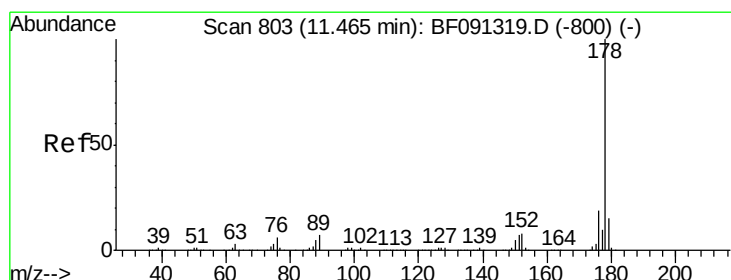
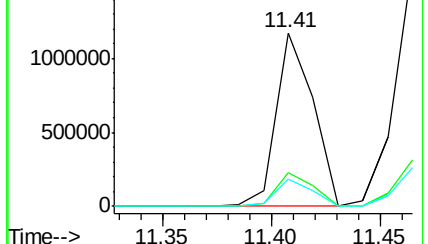
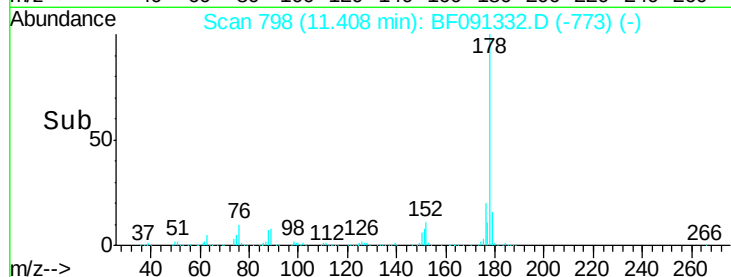
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 45.75 ng

RT: 11.46 min Scan# 803

Delta R.T. -0.02 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

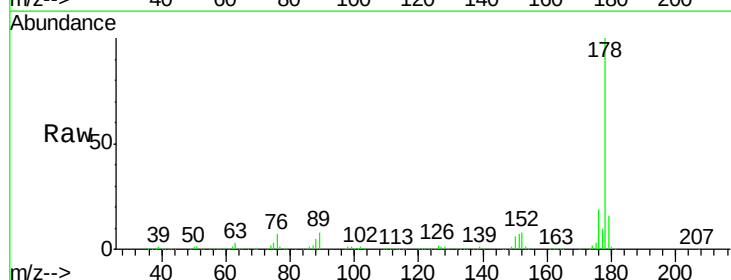
Tgt Ion:178 Resp: 1510601

Ion Ratio Lower Upper

178 100

176 19.3 15.8 23.6

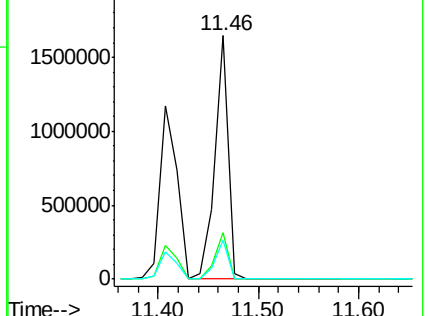
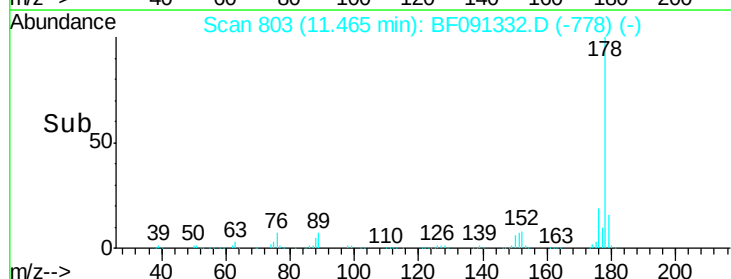
179 16.0 12.7 19.1

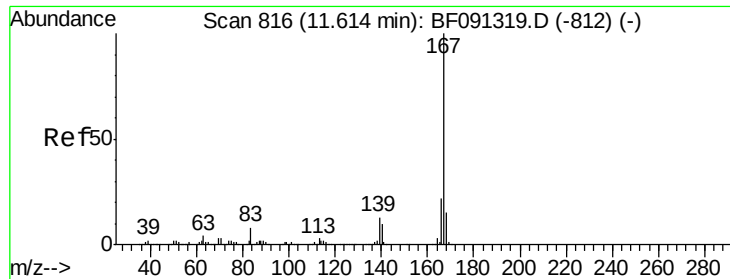


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 11.31 ng

RT: 11.61 min Scan# 816

Delta R.T. -0.02 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMS

Tgt Ion:167 Resp: 338930
Ion Ratio Lower Upper

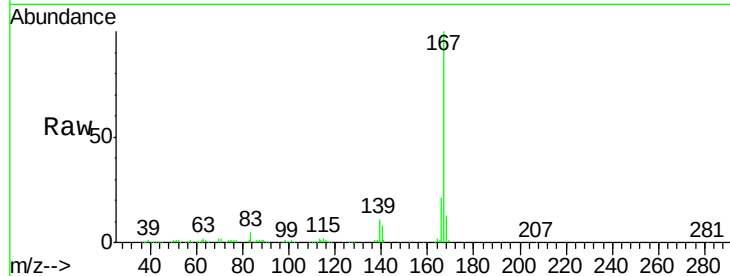
167 100

166 21.2 18.1 27.1

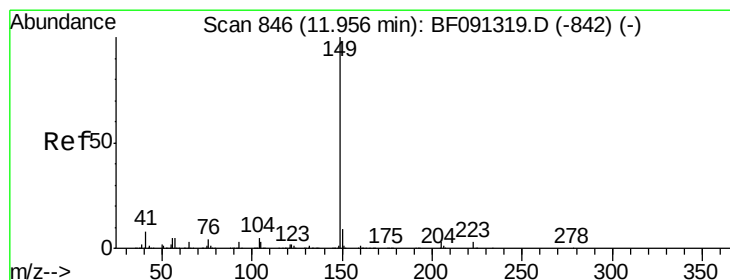
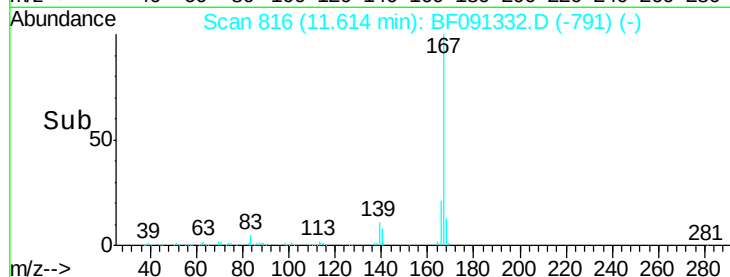
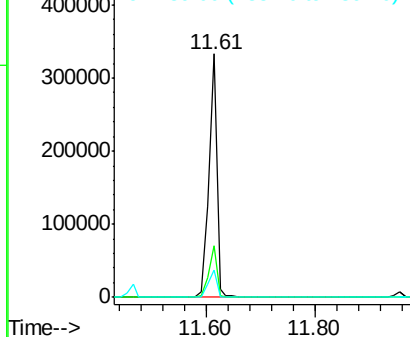
139 11.0 11.5 17.3#

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Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E



#73

Di-n-butylphthalate

Concen: 46.71 ng

RT: 11.96 min Scan# 846

Delta R.T. -0.02 min

Lab File: BF091332.D

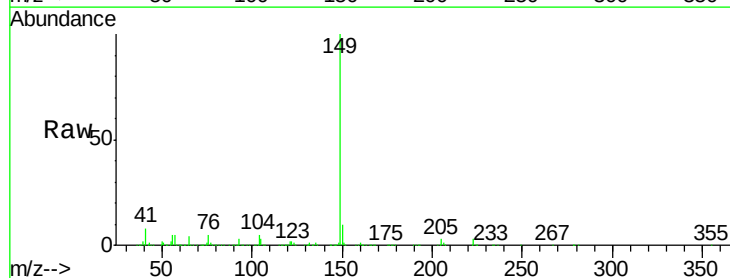
Acq: 29 Nov 2016 17:41

Tgt Ion:149 Resp: 1586207
Ion Ratio Lower Upper

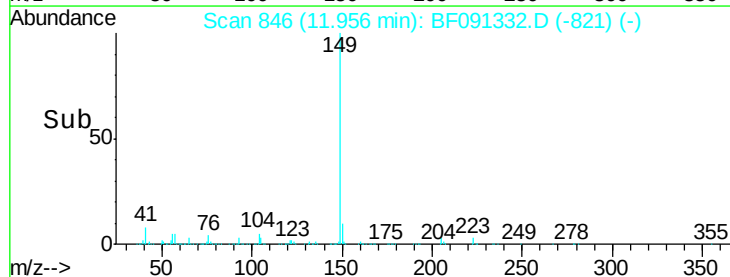
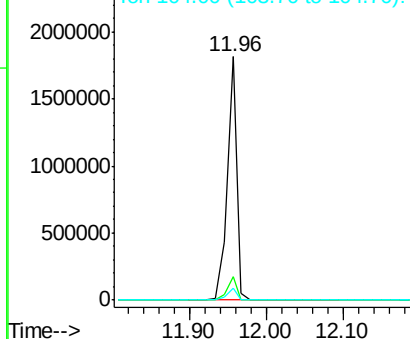
149 100

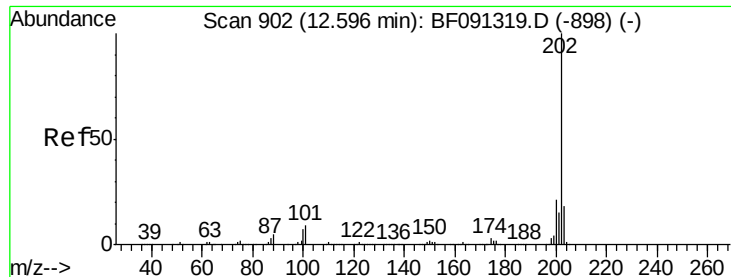
150 9.6 7.5 11.3

104 5.1 4.0 6.0



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 104.00 (103.70 to 104.70): E





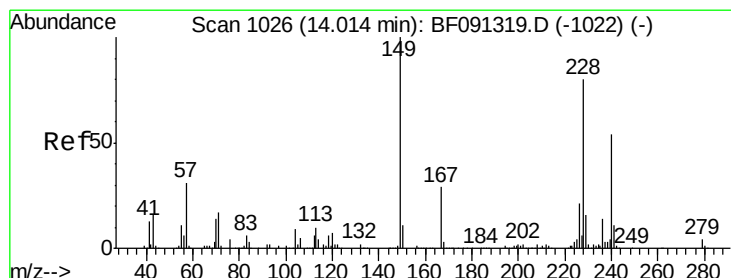
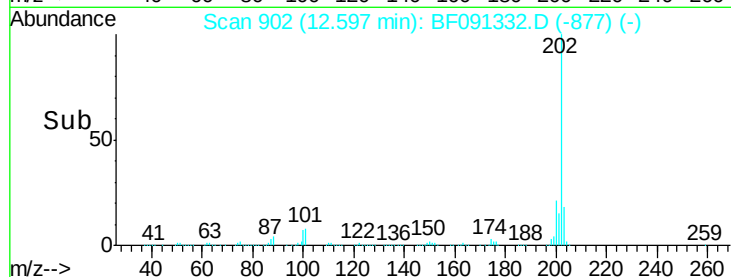
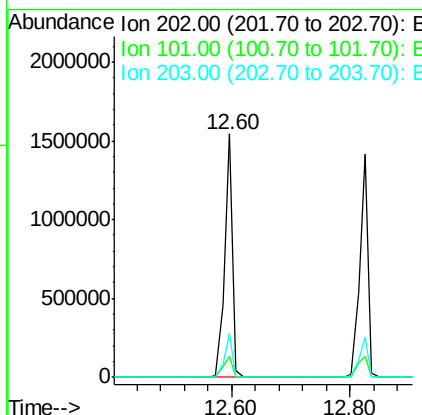
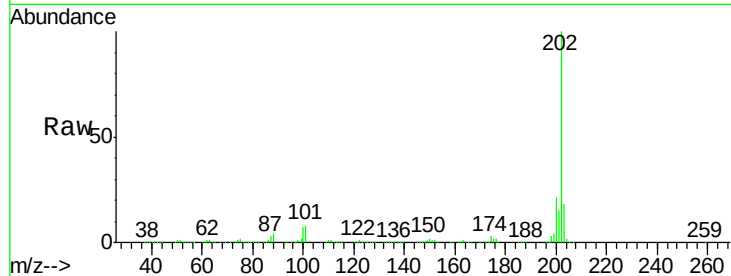
#74
 Fluoranthene
 Concen: 45.02 ng
 RT: 12.60 min Scan# 902
 Delta R.T. -0.02 min
 Lab File: BF091332.D
 Acq: 29 Nov 2016 17:41

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMS

Tgt Ion	Ratio	Lower	Upper
202	100		
101	8.4	0.0	29.5
203	17.9	0.0	37.8

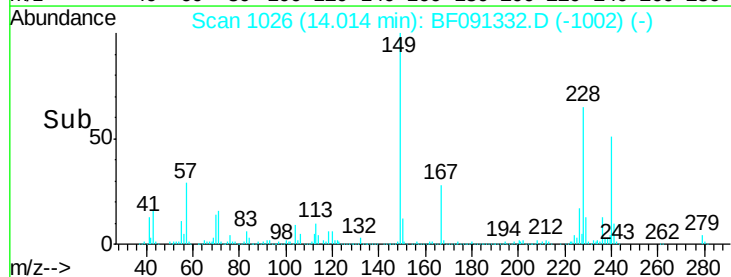
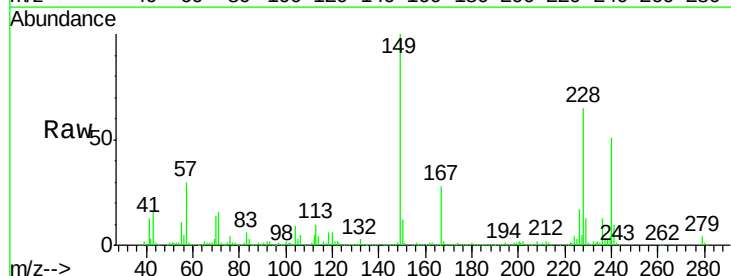
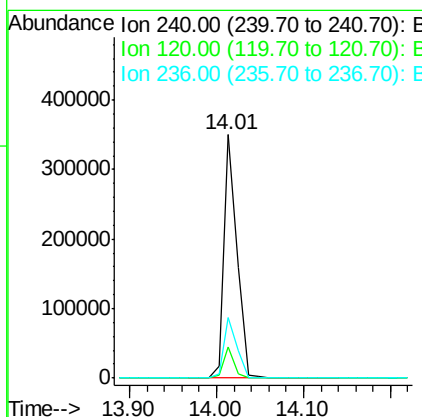
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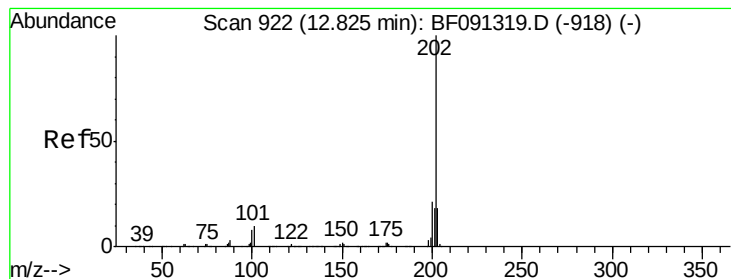
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#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.01 min Scan# 1026
 Delta R.T. -0.03 min
 Lab File: BF091332.D
 Acq: 29 Nov 2016 17:41

Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.6	12.1	18.1
236	25.0	21.0	31.6





#77

Pyrene

Concen: 49.19 ng

RT: 12.83 min Scan# 922

Delta R.T. -0.02 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMS

Tgt Ion:202 Resp: 1377188

Ion Ratio Lower Upper

202 100

200 21.6 17.6 26.4

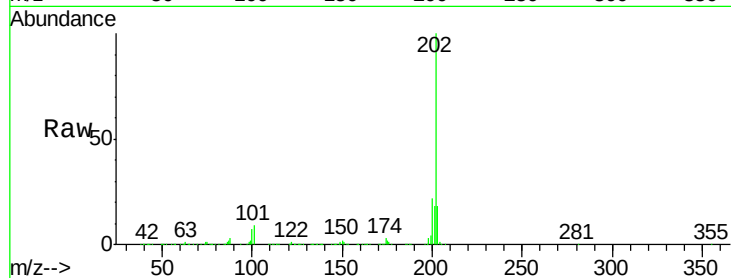
203 17.8 14.0 21.0

Manual Integrations

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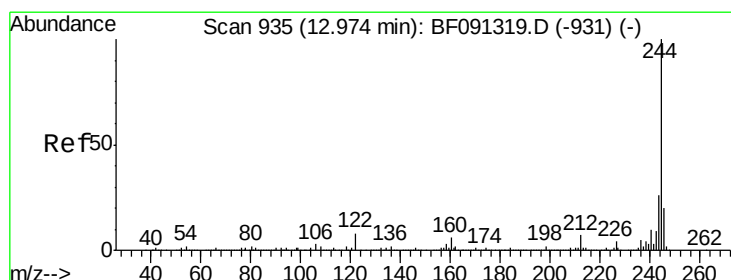
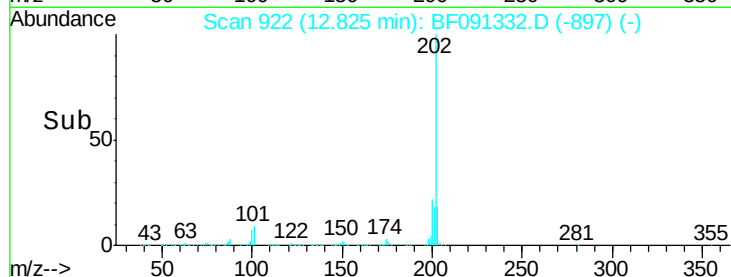
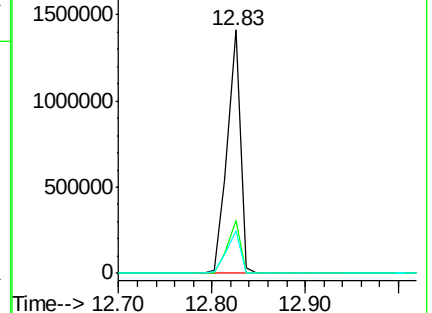
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 100.71 ng

RT: 12.97 min Scan# 935

Delta R.T. -0.02 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

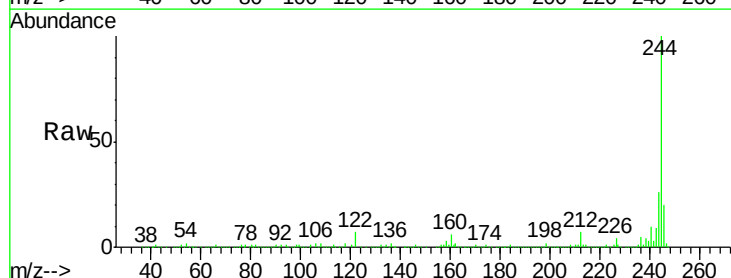
Tgt Ion:244 Resp: 1709375

Ion Ratio Lower Upper

244 100

212 7.0 6.5 9.7

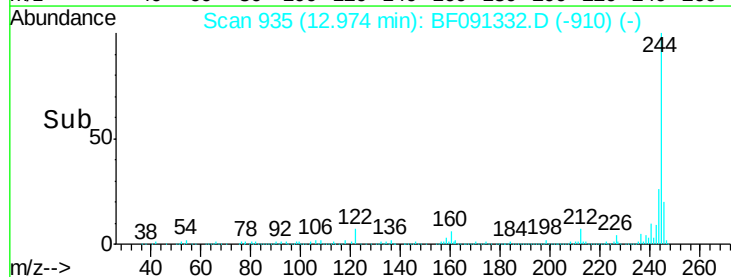
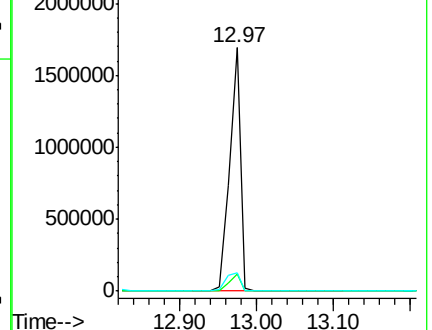
122 7.4 9.5 14.3#

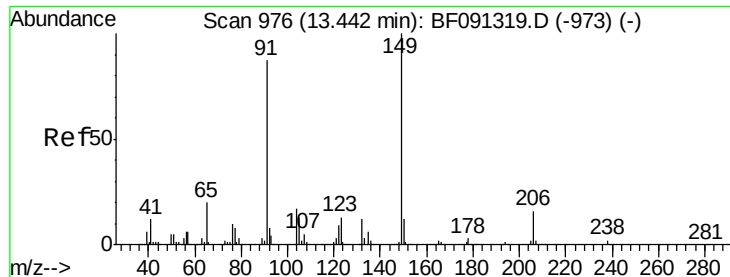


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#79

Butylbenzylphthalate

Concen: 49.18 ng

RT: 13.44 min Scan# 976

Delta R.T. -0.03 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

Instrument :

BNA_F

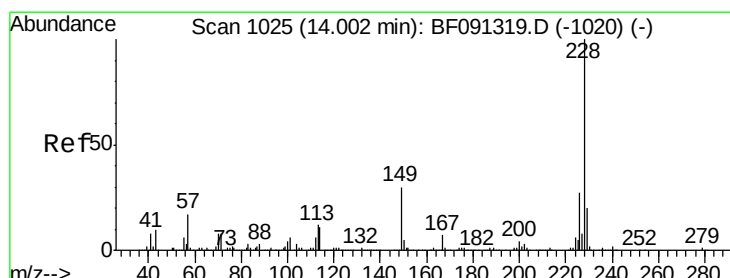
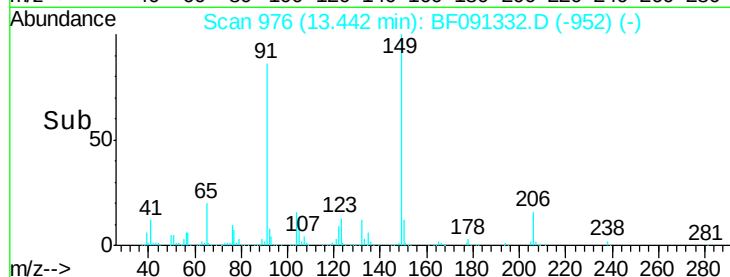
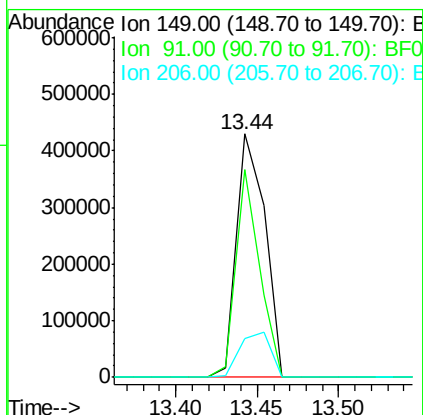
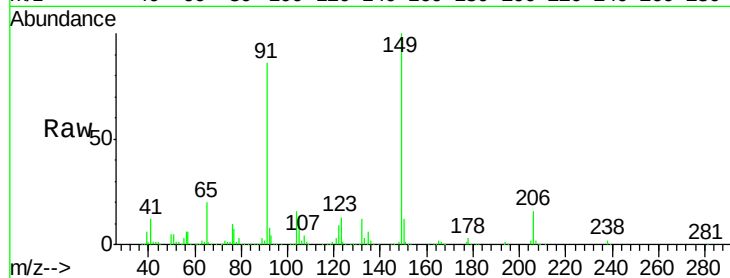
ClientSampleId :

SOIL-CUTTINGSMS

Tgt Ion:	149	Resp:	515545
Ion Ratio	Lower	Upper	
149	100		
91	85.6	57.4	86.2
206	16.0	15.4	23.2

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#80

Benzo(a)anthracene

Concen: 43.81 ng

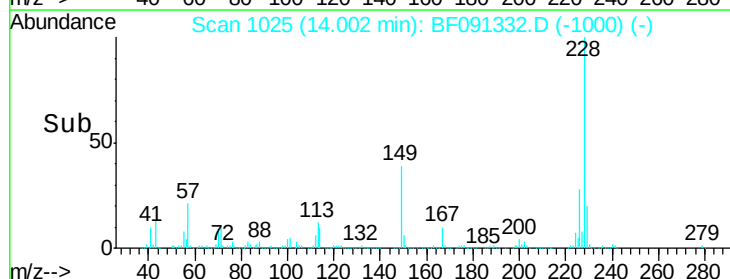
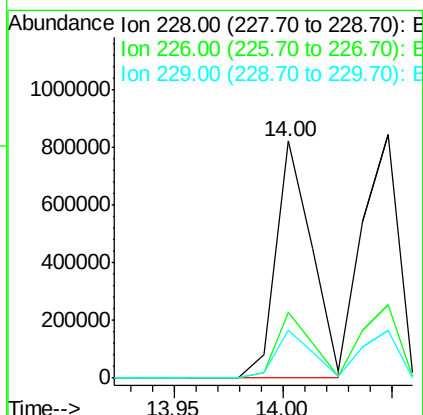
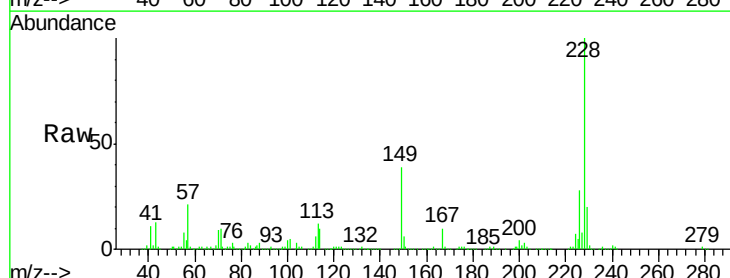
RT: 14.00 min Scan# 1025

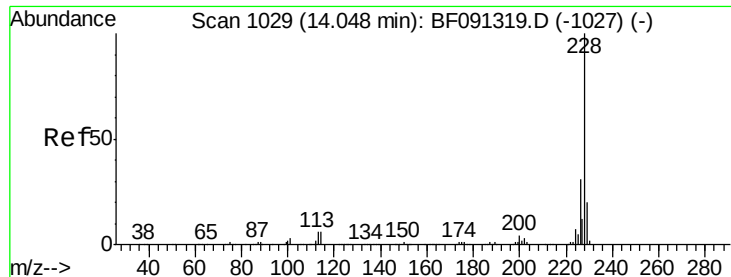
Delta R.T. -0.02 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

Tgt Ion:	228	Resp:	945143
Ion Ratio	Lower	Upper	
228	100		
226	28.0	22.5	33.7
229	20.2	16.4	24.6





#82

Chrysene

Concen: 45.73 ng

RT: 14.05 min Scan# 1029

Delta R.T. -0.02 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

Instrument :

BNA_F

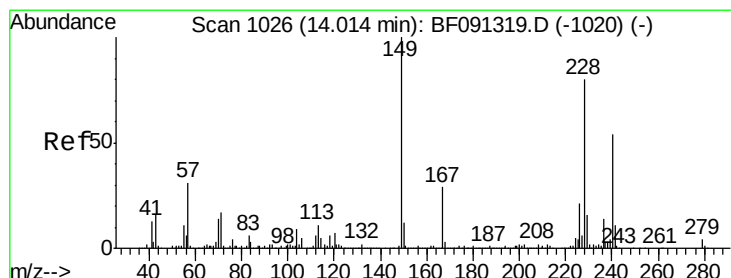
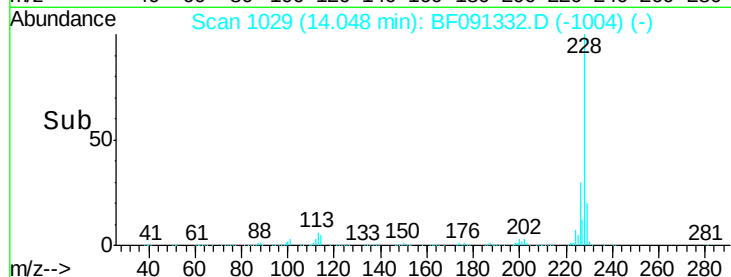
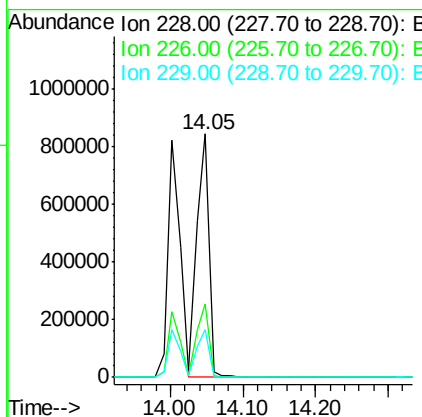
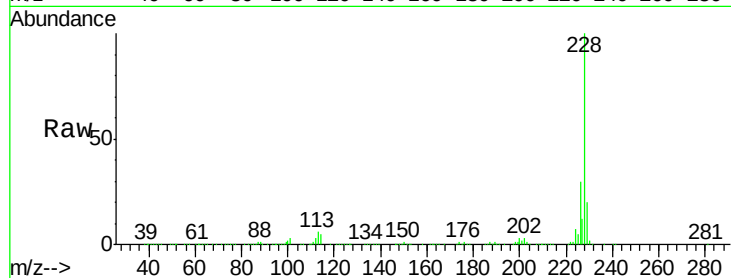
ClientSampleId :

SOIL-CUTTINGSMS

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	25.0	37.4
229	19.8	16.0	24.0

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#83

Bis(2-ethylhexyl)phthalate

Concen: 53.94 ng

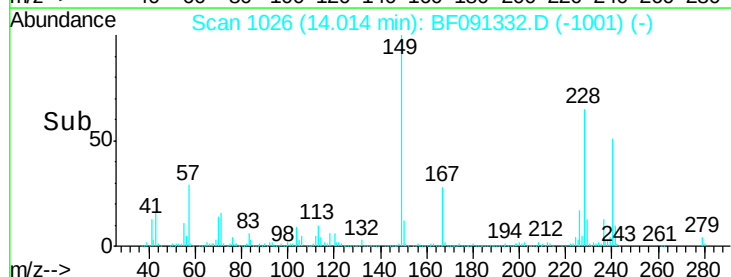
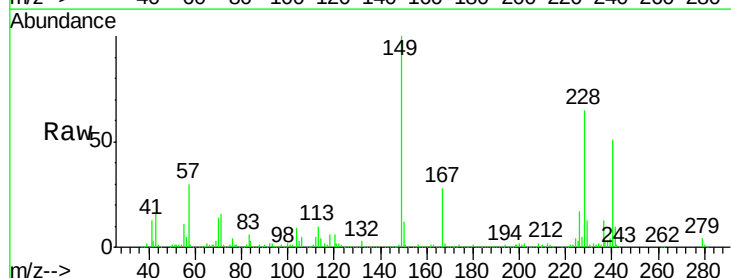
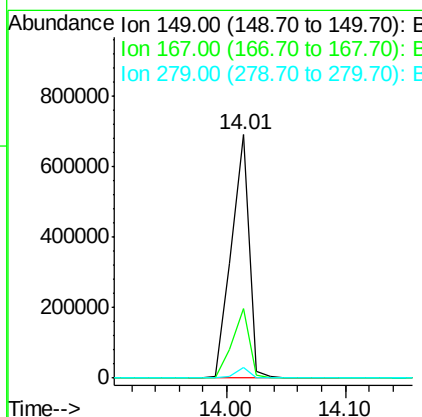
RT: 14.01 min Scan# 1026

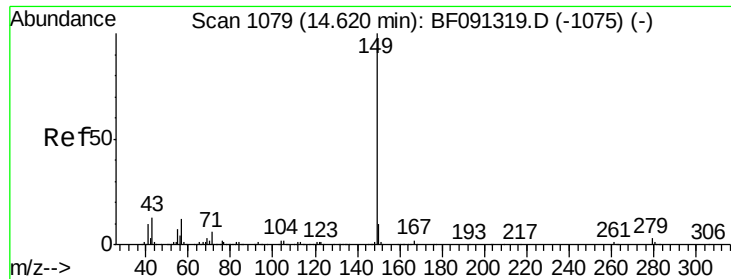
Delta R.T. -0.02 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

Tgt Ion	Ratio	Lower	Upper
149	100		
167	28.4	19.6	29.4
279	4.3	1.9	2.9#





#84

Di-n-octyl phthalate

Concen: 54.94 ng

RT: 14.62 min Scan# 1079

Delta R.T. -0.02 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

Instrument :

BNA_F

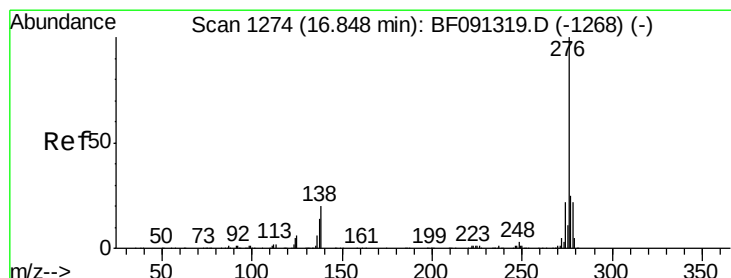
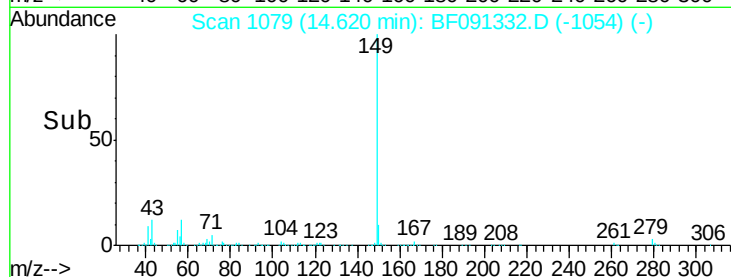
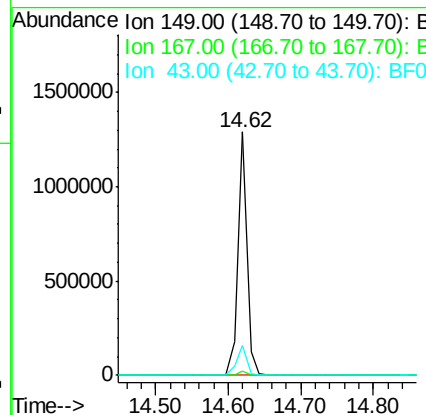
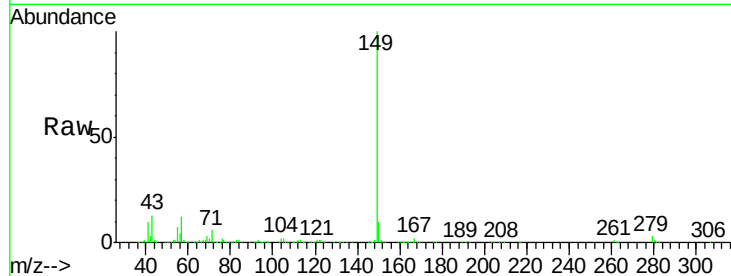
ClientSampleId :

SOIL-CUTTINGSMS

Tgt Ion:	149	Resp:	1104673
Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.3	1.9
43	13.5	11.9	17.9

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#85

Indeno(1,2,3-cd)pyrene

Concen: 44.54 ng

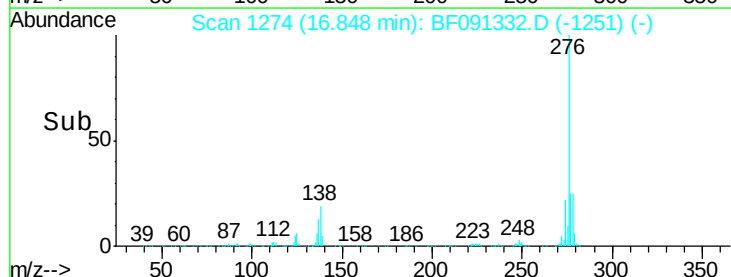
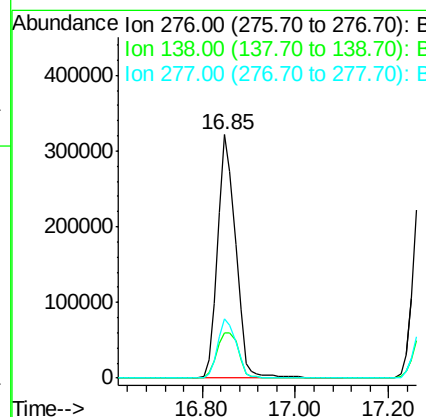
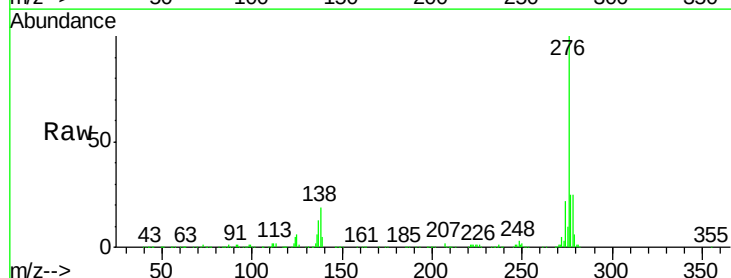
RT: 16.85 min Scan# 1274

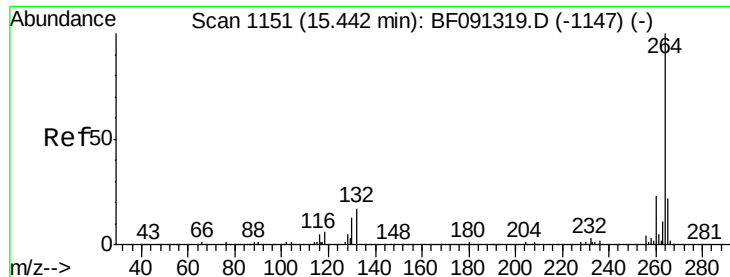
Delta R.T. -0.04 min

Lab File: BF091332.D

Acq: 29 Nov 2016 17:41

Tgt Ion:	276	Resp:	870799
Ion	Ratio	Lower	Upper
276	100		
138	22.4	21.0	31.4
277	25.4	20.2	30.2





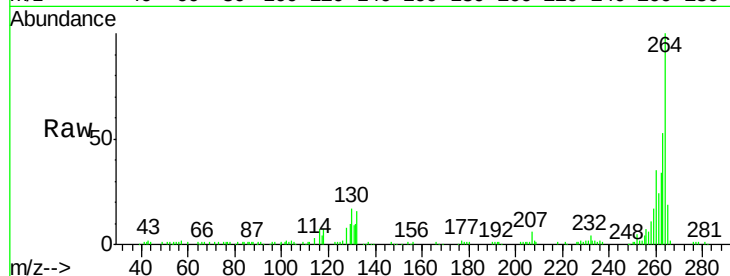
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.44 min Scan# 1151
 Delta R.T. -0.03 min
 Lab File: BF091332.D
 Acq: 29 Nov 2016 17:41

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMS

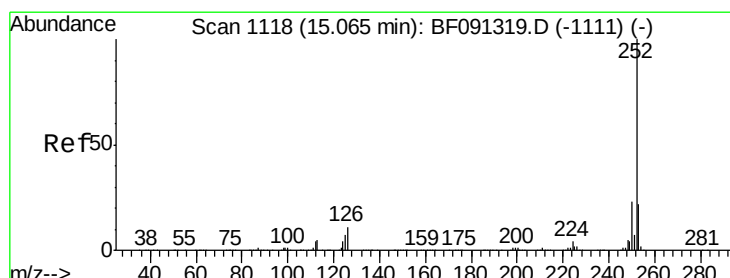
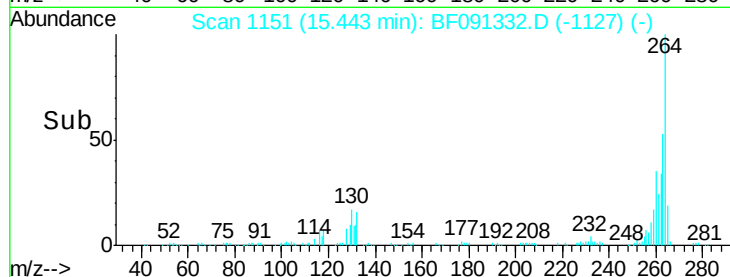
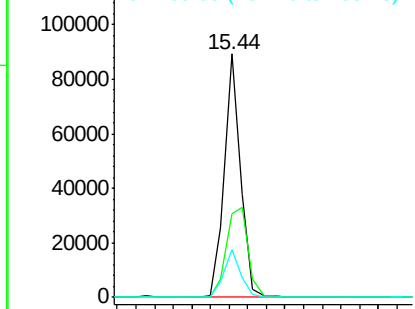
Tgt Ion	Ratio	Lower	Upper
264	100		
260	34.5	18.8	28.2
265	19.5	17.0	25.6

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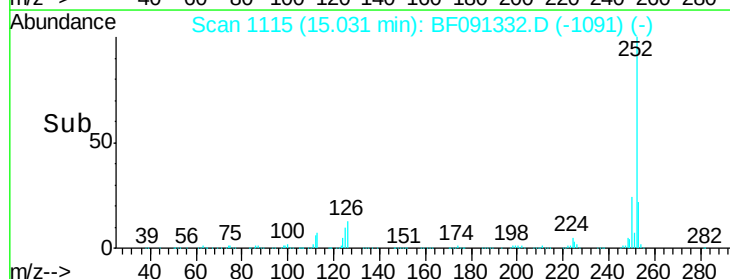
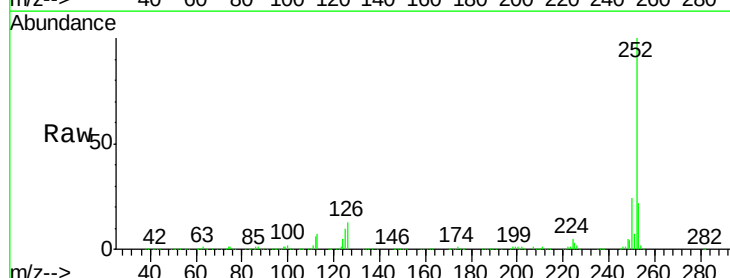
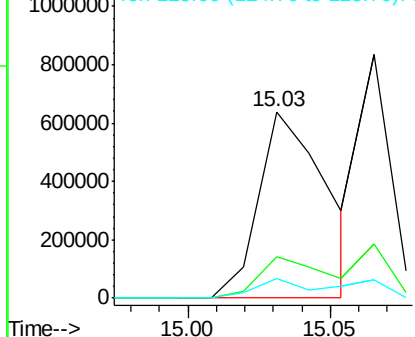
Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E

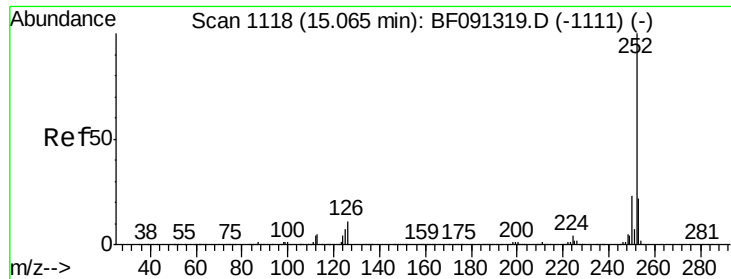


#87
 Benzo(b)fluoranthene
 Concen: 156.50 ng m
 RT: 15.03 min Scan# 1115
 Delta R.T. -0.03 min
 Lab File: BF091332.D
 Acq: 29 Nov 2016 17:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.2	27.2
125	10.3	8.6	13.0

Abundance Ion 252.00 (251.70 to 252.70): E
 Ion 253.00 (252.70 to 253.70): E
 Ion 125.00 (124.70 to 125.70): E





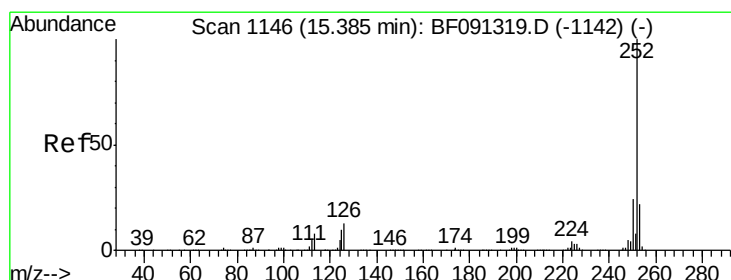
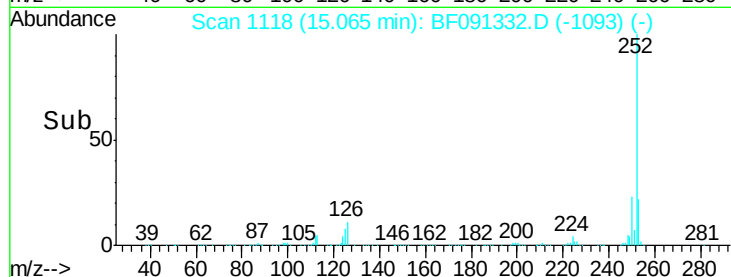
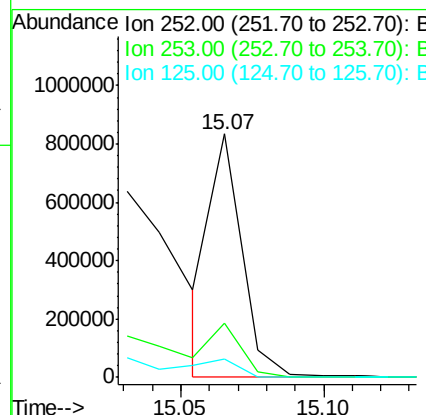
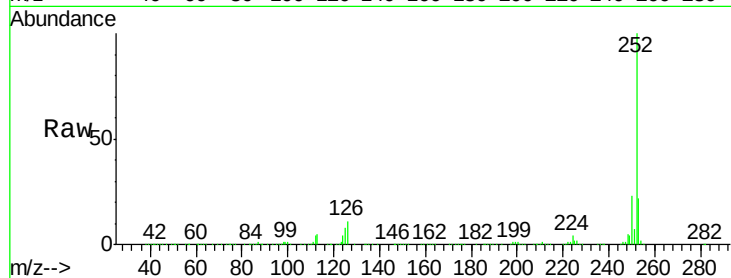
#88
Benzo(k)fluoranthene
Concen: 114.83 ng m
RT: 15.07 min Scan# 1118
Delta R.T. -0.02 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMS

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.8	26.8
125	7.7	9.6	14.4

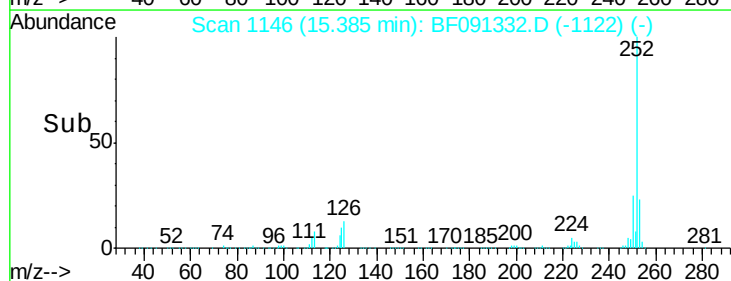
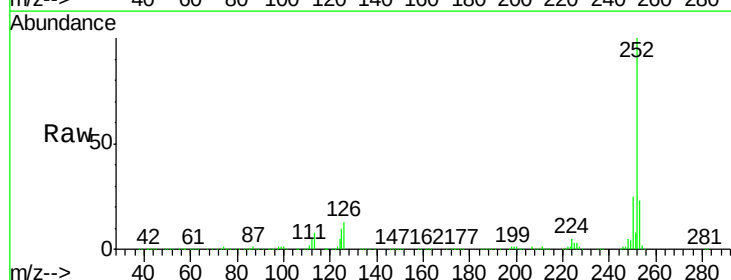
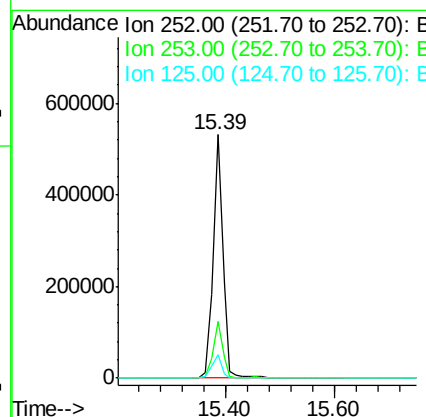
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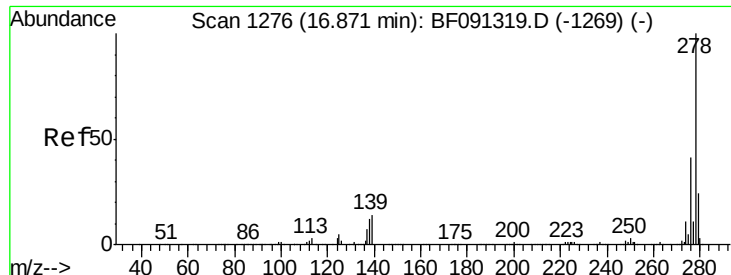
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#89
Benzo(a)pyrene
Concen: 110.36 ng
RT: 15.39 min Scan# 1146
Delta R.T. -0.03 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.2	27.4
125	9.9	10.4	15.6





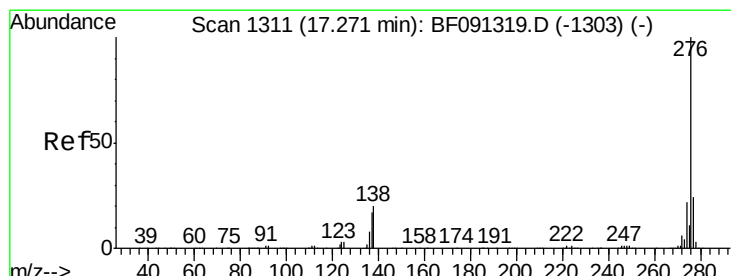
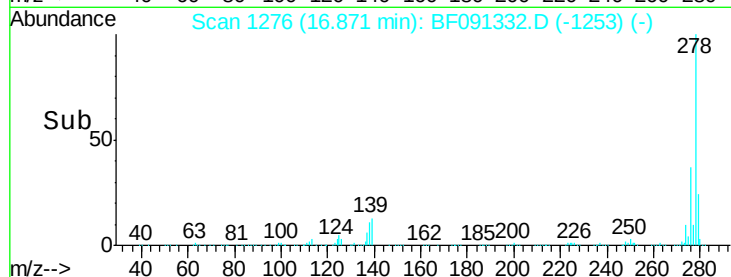
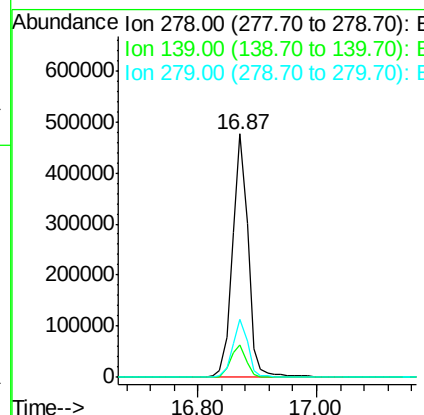
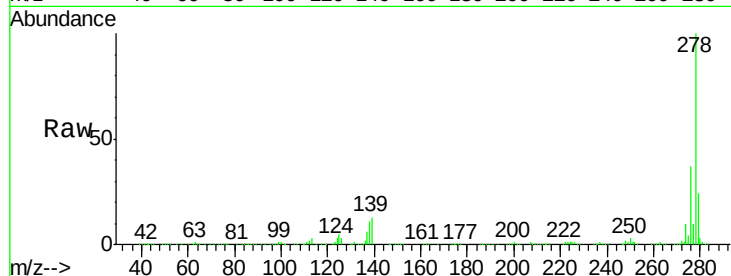
#90
Dibenzo(a,h)anthracene
Concen: 154.95 ng
RT: 16.87 min Scan# 1276
Delta R.T. -0.04 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMS

Tgt Ion	Ratio	Lower	Upper
278	100		
139	13.2	15.1	22.7#
279	23.9	19.0	28.6

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#91
Benzo(g,h,i)perylene
Concen: 118.75 ng
RT: 17.27 min Scan# 1311
Delta R.T. -0.04 min
Lab File: BF091332.D
Acq: 29 Nov 2016 17:41

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.0	28.4
138	19.8	15.4	23.0

