

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120615\
 Data File : BF083542.D
 Acq On : 7 Dec 2015 4:17
 Operator : UM/IZ
 Sample : G4614-07
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S6-14.5

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120415.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.584	163	166	180	rVB	697285	1651808	24.96%	1.429%
2	4.018	201	204	222	rBV	4794406	6570638	99.28%	5.685%
3	5.299	312	316	324	rBV	4223775	6618595	100.00%	5.727%
4	5.424	324	327	330	rBV	4000913	6306896	95.29%	5.457%
5	5.733	351	354	363	rBV	1046484	1284984	19.41%	1.112%
6	5.950	370	373	376	rBV	3693432	4708832	71.15%	4.074%
7	6.567	423	427	429	rBV	2678287	4247521	64.18%	3.675%
8	6.842	447	451	460	rBV	81034	156073	2.36%	0.135%
9	7.630	518	520	523	rBV	1283758	1597749	24.14%	1.382%
10	9.379	669	673	676	rBV	4056632	6314896	95.41%	5.464%
11	10.065	730	733	736	rBV	1161792	1404784	21.22%	1.215%
12	10.190	742	744	747	rBV	173197	225583	3.41%	0.195%
13	10.419	761	764	767	rBV	1304070	1882964	28.45%	1.629%
14	10.465	767	768	771	rVB	225226	338318	5.11%	0.293%
15	10.762	791	794	798	rVV	212407	323757	4.89%	0.280%
16	11.265	835	838	840	rBV	123572	210080	3.17%	0.182%
17	11.311	840	842	847	rVB	462586	612853	9.26%	0.530%
18	11.585	863	866	868	rBV	128038	187733	2.84%	0.162%
19	11.711	874	877	880	rBV2	2565002	3883625	58.68%	3.360%
20	12.042	903	906	910	rVV	139463	280153	4.23%	0.242%
21	12.202	918	920	922	rVV	144890	268947	4.06%	0.233%
22	12.339	927	932	935	rVV4	51005	165076	2.49%	0.143%
23	12.442	939	941	945	rVV3	99767	309646	4.68%	0.268%
24	12.522	945	948	952	rVV2	174073	328468	4.96%	0.284%
25	12.602	952	955	957	rVV2	208970	389190	5.88%	0.337%
26	12.648	957	959	962	rVB	199978	301279	4.55%	0.261%
27	12.819	971	974	975	rVV	1185796	1670417	25.24%	1.445%
28	12.865	975	978	981	rVV	3856531	5459731	82.49%	4.724%
29	12.934	981	984	987	rVV	740719	1134704	17.14%	0.982%
30	13.231	1007	1010	1013	rVV	310897	487470	7.37%	0.422%
31	13.334	1017	1019	1023	rVV4	93671	249829	3.77%	0.216%
32	13.494	1028	1033	1036	rVB4	67078	182269	2.75%	0.158%
33	13.642	1043	1046	1048	rBV	551477	696620	10.53%	0.603%
34	13.688	1048	1050	1053	rVV	707130	888698	13.43%	0.769%

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Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120415.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	13.768	1055	1057	1058	rVV	219584	263937	3.99%	0.228%
36	13.802	1058	1060	1063	rVV2	663423	1084030	16.38%	0.938%
37	13.848	1063	1064	1071	rVB2	320451	804197	12.15%	0.696%
38	14.145	1083	1090	1091	rBV	359990	647925	9.79%	0.561%
39	14.179	1091	1093	1096	rVB	252256	324636	4.90%	0.281%
40	14.545	1122	1125	1127	rBV	227013	368712	5.57%	0.319%
41	14.602	1127	1130	1132	rBV2	137817	265338	4.01%	0.230%
42	14.682	1134	1137	1141	rVB3	228342	497781	7.52%	0.431%
43	14.797	1142	1147	1149	rBV	3358873	6213210	93.88%	5.376%
44	14.842	1149	1151	1153	rVB	113689	147179	2.22%	0.127%
45	14.900	1153	1156	1158	rBV	155758	285550	4.31%	0.247%
46	14.934	1158	1159	1163	rVB2	162970	218963	3.31%	0.189%
47	15.014	1163	1166	1171	rBV4	140778	389509	5.89%	0.337%
48	15.140	1173	1177	1180	rBV	3632017	5870469	88.70%	5.079%
49	15.242	1183	1186	1188	rVB	193043	281658	4.26%	0.244%
50	15.300	1188	1191	1194	rBV2	133600	327567	4.95%	0.283%
51	15.357	1194	1196	1198	rBV	231703	335014	5.06%	0.290%
52	15.460	1201	1205	1207	rVB	2702609	4360564	65.88%	3.773%
53	15.528	1209	1211	1214	rVB	217472	347532	5.25%	0.301%
54	15.665	1219	1223	1224	rBV2	237790	509620	7.70%	0.441%
55	15.700	1224	1226	1228	rVB	564342	748690	11.31%	0.648%
56	15.802	1233	1235	1238	rBV	406945	606384	9.16%	0.525%
57	15.860	1238	1240	1247	rBV4	370472	849739	12.84%	0.735%
58	15.997	1251	1252	1255	rVB	168939	186717	2.82%	0.162%
59	16.260	1272	1275	1278	rVB	127886	260309	3.93%	0.225%
60	16.340	1278	1282	1284	rBV3	219772	498142	7.53%	0.431%
61	16.385	1284	1286	1289	rVB	164826	247515	3.74%	0.214%
62	16.477	1292	1294	1295	rBV	170029	221124	3.34%	0.191%
63	16.511	1295	1297	1298	rBV	235818	279997	4.23%	0.242%
64	16.591	1303	1304	1307	rVV2	102892	160036	2.42%	0.138%
65	16.660	1307	1310	1312	rVV2	262114	534008	8.07%	0.462%
66	16.694	1312	1313	1314	rVV	326501	343649	5.19%	0.297%
67	16.763	1317	1319	1321	rVV2	289768	388717	5.87%	0.336%
68	16.820	1321	1324	1327	rVB2	360777	570934	8.63%	0.494%
69	16.900	1327	1331	1333	rBV	102318	194075	2.93%	0.168%
70	17.003	1333	1340	1343	rBV2	1929073	5230516	79.03%	4.526%
71	17.048	1343	1344	1347	rVV	1825470	2273242	34.35%	1.967%

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72	17.151	1350	1353	1356	rVB2	235077	367613	5.55%	0.318%
73	17.300	1364	1366	1368	rVB	239789	276097	4.17%	0.239%
74	17.345	1368	1370	1372	rBV	203535	246688	3.73%	0.213%
75	17.391	1372	1374	1376	rVV	135253	163824	2.48%	0.142%
76	17.437	1376	1378	1381	rVB3	91138	182031	2.75%	0.158%
77	17.494	1381	1383	1384	rBV	184477	211413	3.19%	0.183%
78	17.540	1384	1387	1389	rVV	394819	553000	8.36%	0.478%
79	17.574	1389	1390	1392	rVB	169433	168985	2.55%	0.146%
80	17.654	1395	1397	1398	rVV2	158467	219233	3.31%	0.190%
81	17.700	1398	1401	1403	rVV3	116561	286383	4.33%	0.248%
82	17.940	1417	1422	1425	rBV4	211414	508934	7.69%	0.440%
83	18.111	1436	1437	1441	rVB2	182582	285397	4.31%	0.247%
84	18.180	1441	1443	1445	rBV2	153673	176096	2.66%	0.152%
85	18.271	1448	1451	1456	rVV	1841886	3641859	55.02%	3.151%
86	18.374	1456	1460	1462	rVV2	320673	402073	6.07%	0.348%
87	18.477	1465	1469	1472	rVV4	129076	442127	6.68%	0.383%
88	18.534	1472	1474	1477	rVV	925378	1415306	21.38%	1.225%
89	18.591	1477	1479	1482	rVV	1482930	1900438	28.71%	1.644%
90	18.648	1482	1484	1485	rVV	978452	1087168	16.43%	0.941%
91	18.671	1485	1486	1491	rVV2	437142	730463	11.04%	0.632%
92	18.808	1496	1498	1500	rBV	106890	179059	2.71%	0.155%
93	18.843	1500	1501	1504	rVB2	130435	206797	3.12%	0.179%
94	19.128	1523	1526	1530	rVB	96257	207235	3.13%	0.179%
95	19.723	1575	1578	1579	rBV	117359	185124	2.80%	0.160%
96	19.883	1589	1592	1596	rVB	729308	1283454	19.39%	1.110%
97	20.031	1602	1605	1607	rBV	152396	289538	4.37%	0.251%
98	20.077	1607	1609	1612	rVB	129348	214227	3.24%	0.185%
99	20.237	1620	1623	1628	rBV	513557	968139	14.63%	0.838%
100	20.443	1639	1641	1647	rVB	142445	298420	4.51%	0.258%

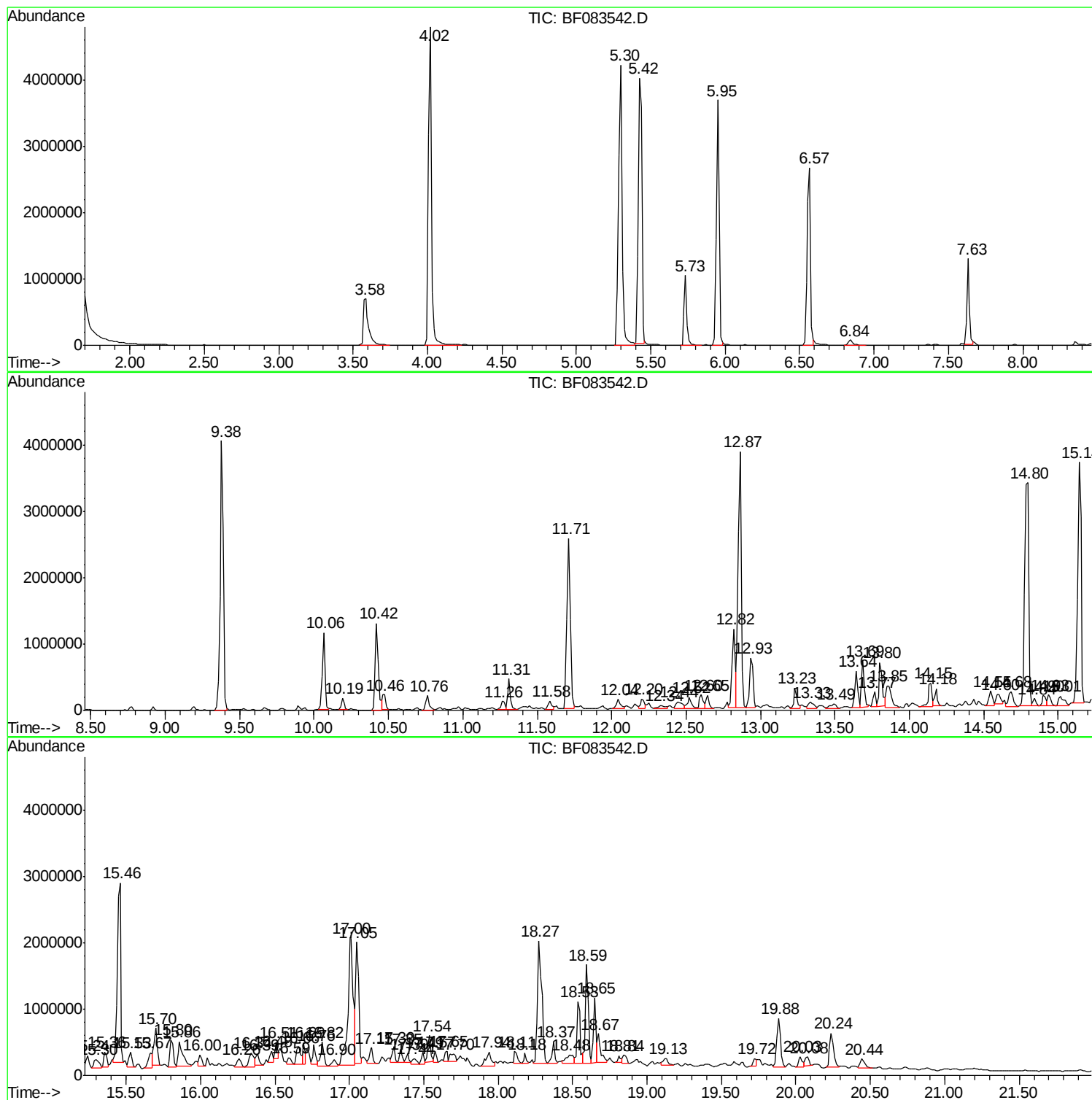
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Instrument :
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



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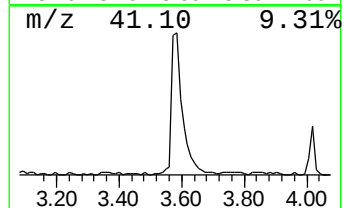
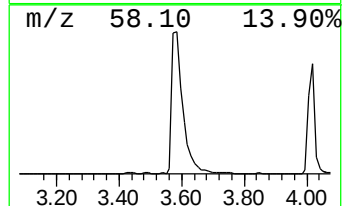
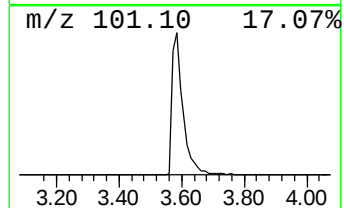
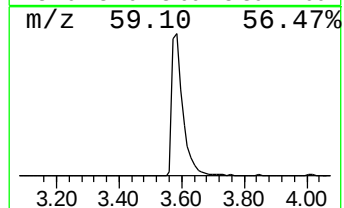
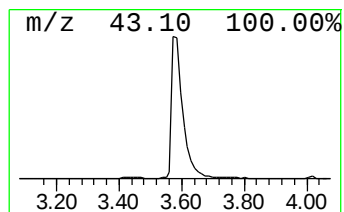
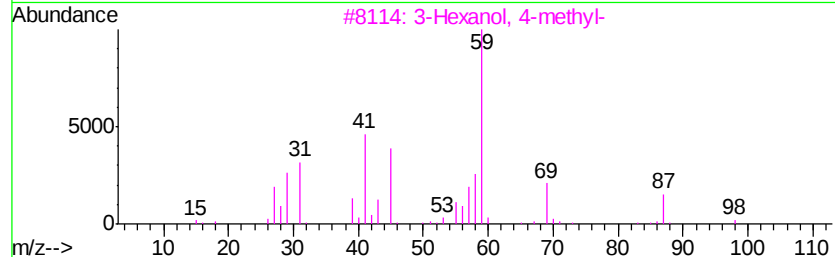
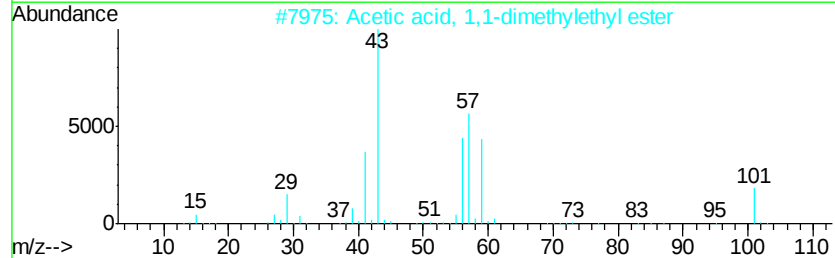
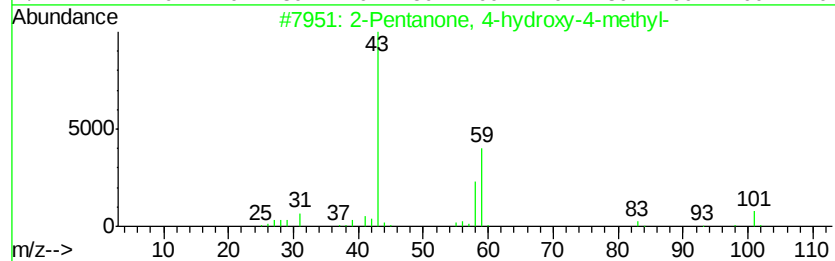
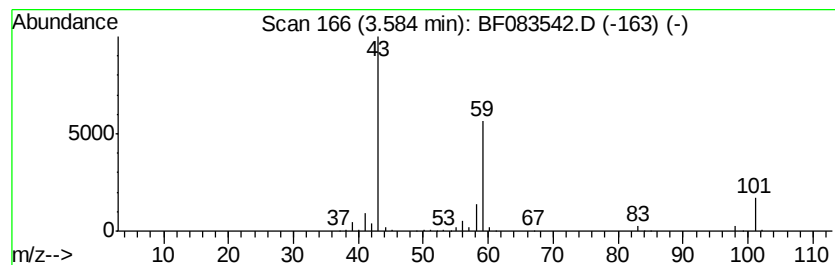
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.58	25.71 ng	1651810	1,4-Dichlorobenzene-d4	5.73

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	45	
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	39	
3	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33	
4	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	33	
5	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	32	



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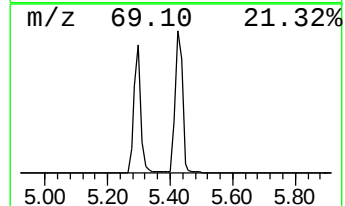
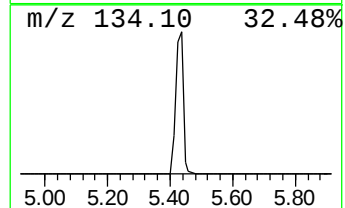
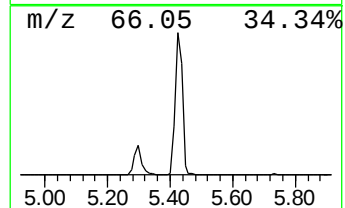
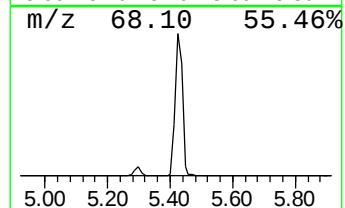
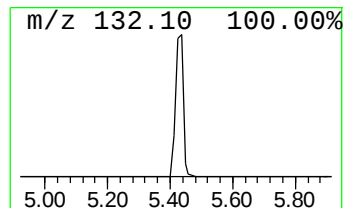
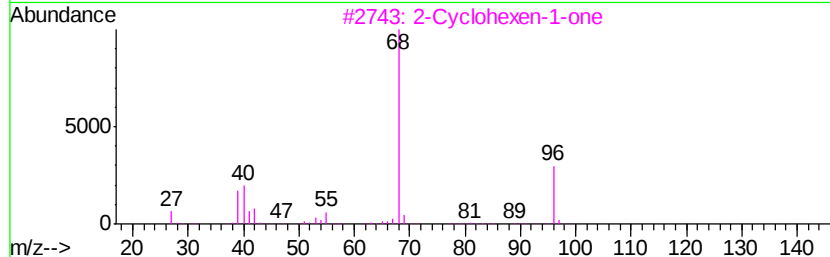
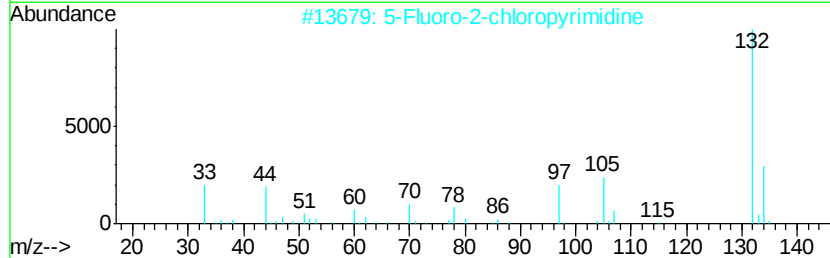
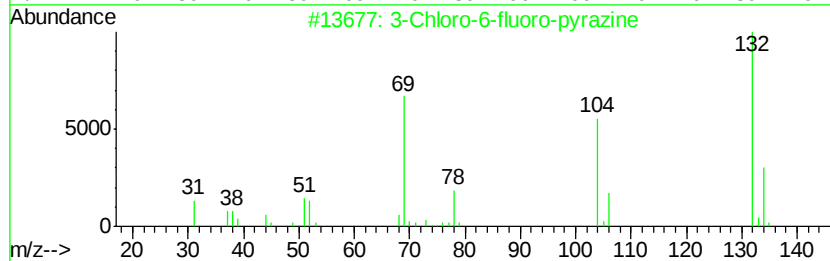
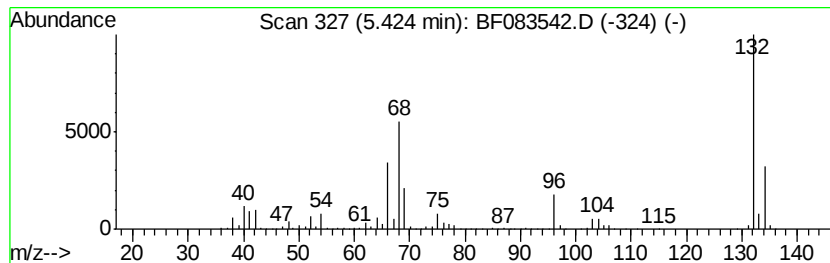
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 unknown5.42 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.42	98.16 ng	6306900	1,4-Dichlorobenzene-d4	5.73

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine			132	C4H2ClFN2	1000146-10-7	27
2	5-Fluoro-2-chloropyrimidine			132	C4H2ClFN2	062802-42-0	12
3	2-Cyclohexen-1-one			96	C6H8O	000930-68-7	11
4	(5-METHYL-2-PYRIDYL)ACETONITRILE			132	C8H8N2	1000241-93-9	10
5	Tranylcypromine-propionyl			189	C12H15NO	1000123-86-3	10



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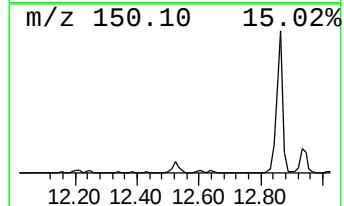
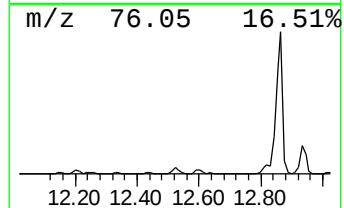
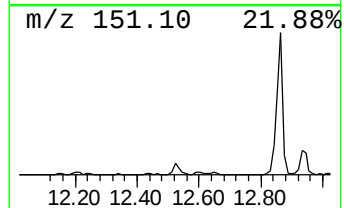
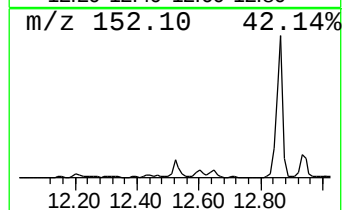
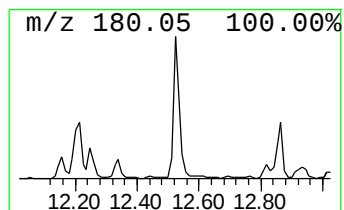
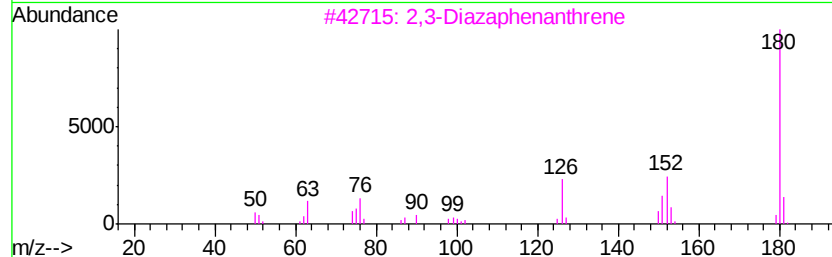
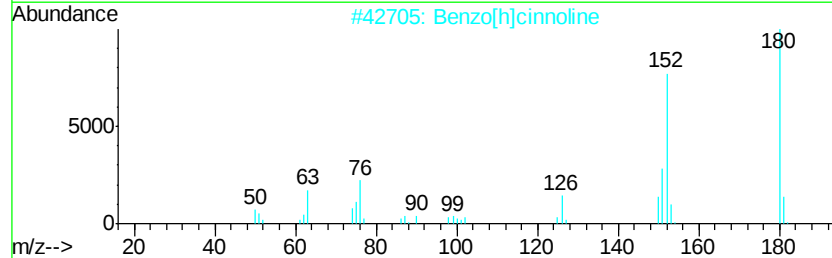
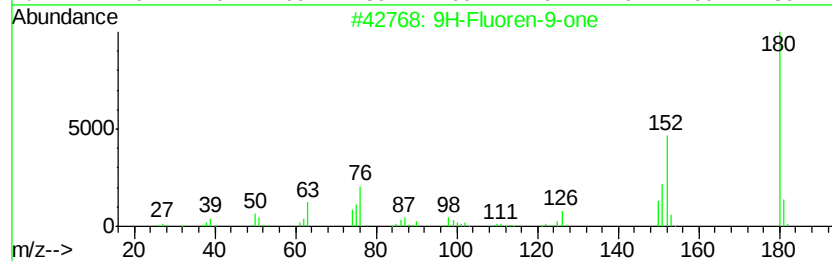
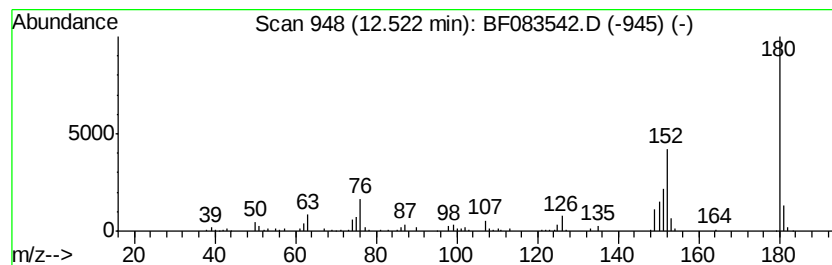
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 9H-Fluoren-9-one Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD		R.T.
12.52	3.93 ng	328468	Phenanthrene-d10		12.82
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
2	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	90
3	2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	53
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	50
5	1,1'-Biphenyl, 4-ethenyl-	180	C14H12	002350-89-2	47



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120615\
Data File : BF083542.D
Acq On : 7 Dec 2015 4:17
Operator : UM/IZ
Sample : G4614-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
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ClientSampleId :
S6-14.5

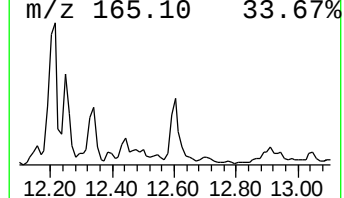
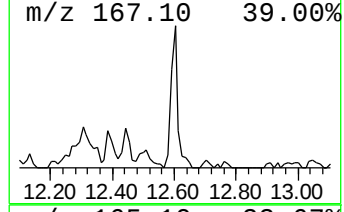
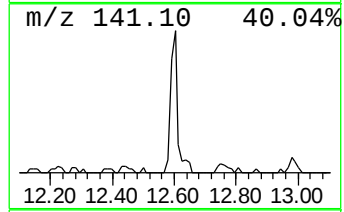
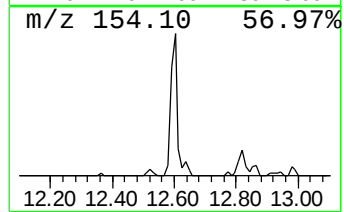
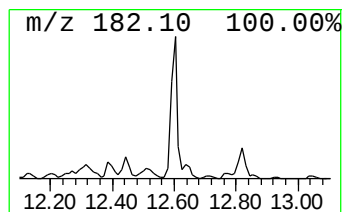
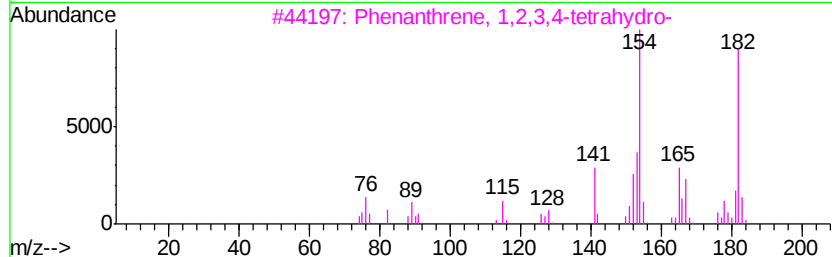
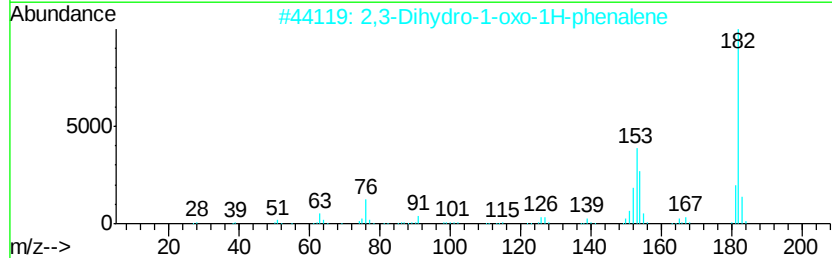
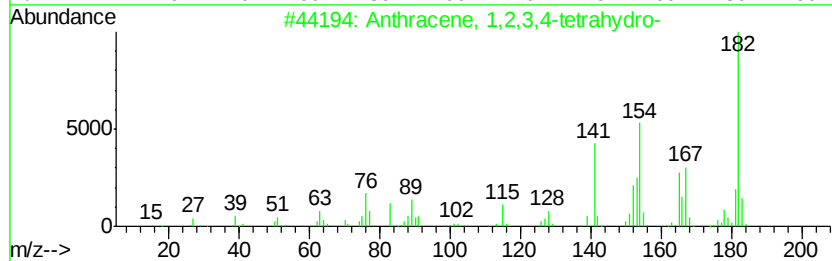
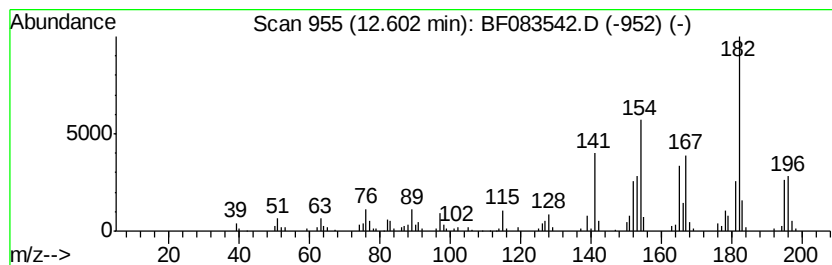
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Anthracene, 1,2,3,4-tetrahy... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.60	4.66 ng	389190	Phenanthrene-d10	12.82

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	98
2		2,3-Dihydro-1-oxo-1H-phenalene	182	C13H10O	000518-85-4	60
3		Phenanthrene, 1,2,3,4-tetrahydro-	182	C14H14	001013-08-7	60
4		3,3'-Dimethylbiphenyl	182	C14H14	000612-75-9	55
5		1,1'-Biphenyl, 3,4'-dimethyl-	182	C14H14	007383-90-6	50



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120615\
Data File : BF083542.D
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Sample : G4614-07
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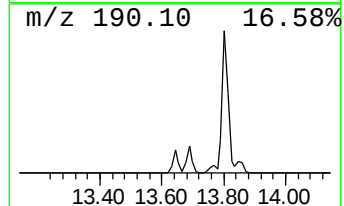
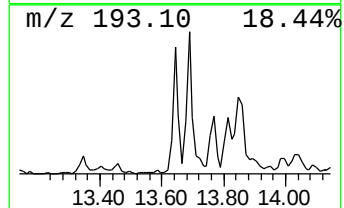
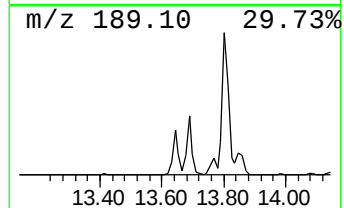
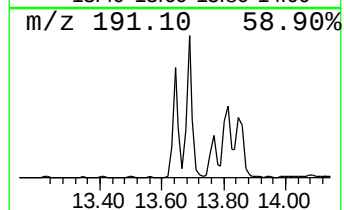
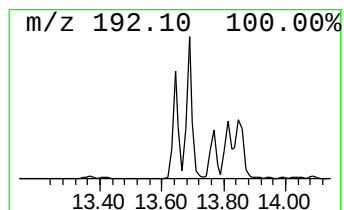
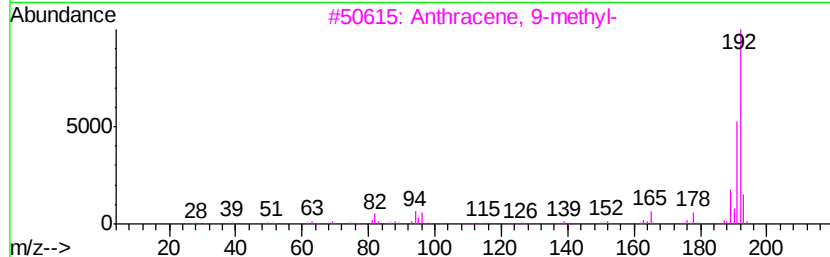
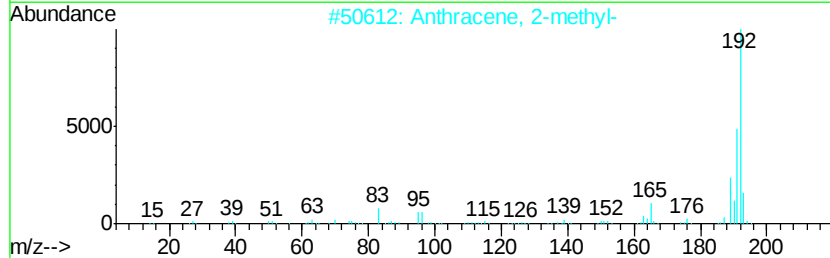
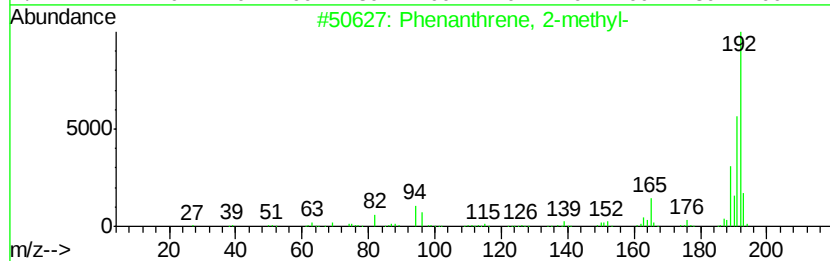
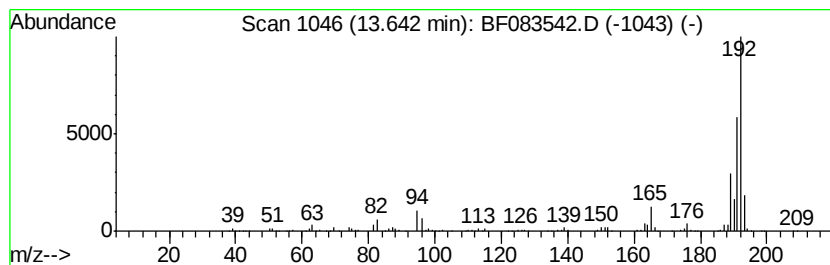
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.64	8.34 ng	696620	Phenanthrene-d10	12.82	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	96
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
5	1H-Cyclopropa[1]phenanthrene, 1a, ...	192	C15H12	000949-41-7	93



Data Path : Z:\HPCHEM1\BNA F\DATA\BF120615\
Data File : BF083542.D
Acq On : 7 Dec 2015 4:17
Operator : UM/IZ
Sample : G4614-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

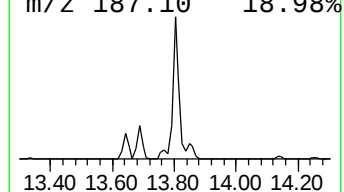
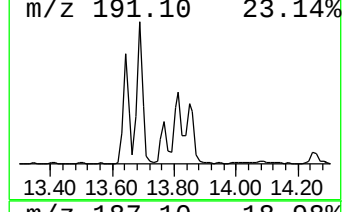
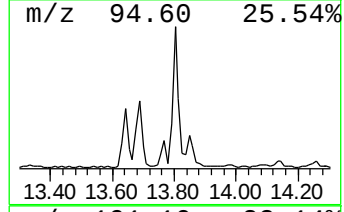
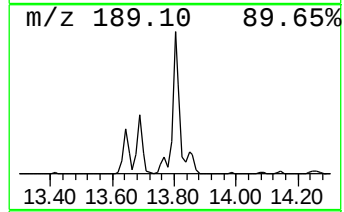
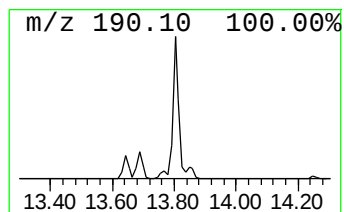
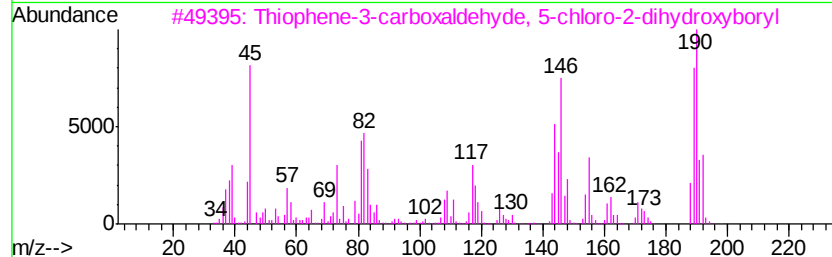
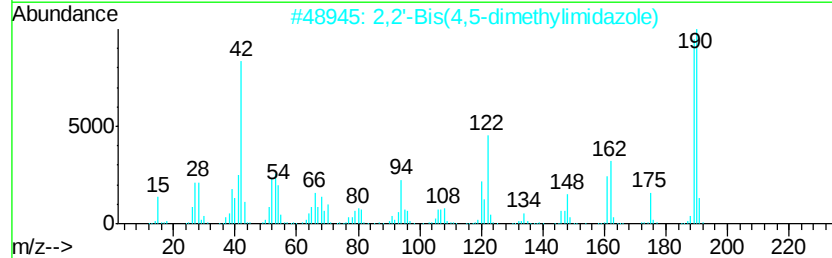
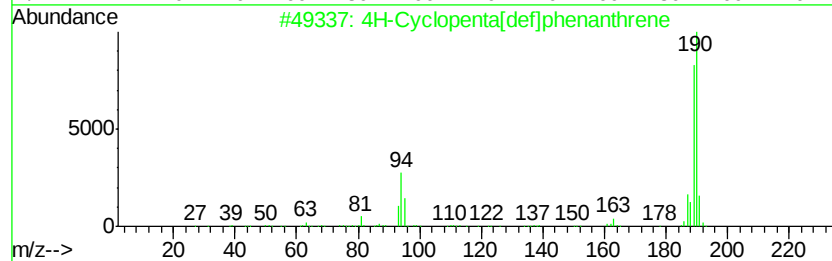
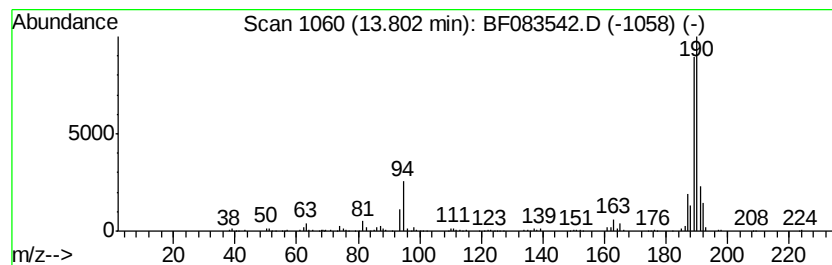
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.80	12.98 ng	1084030	Phenanthrene-d10	12.82	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	95
2	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	50
3	Thiophene-3-carboxaldehyde, 5-chloro-2-dihydroxyboryl	190	C5H4BClO3S	036155-87-0	42
4	6,7-Methylenedioxy-4(3H)-quinazolin-2(1H)-one	190	C9H6N2O3	028310-11-4	36
5	1,4-Naphthalenedione, 2,5-dihydroxy-	190	C10H6O4	004923-55-1	32



Data Path : Z:\HPCHEM1\BNA F\DATA\BF120615\
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Acq On : 7 Dec 2015 4:17
Operator : UM/IZ
Sample : G4614-07
Misc :
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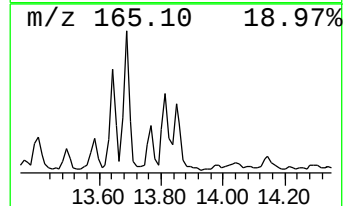
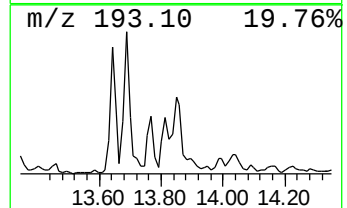
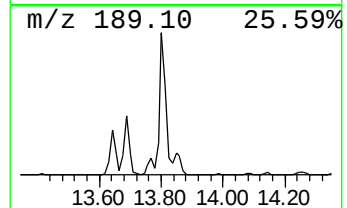
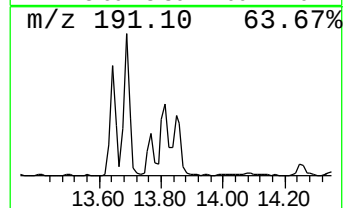
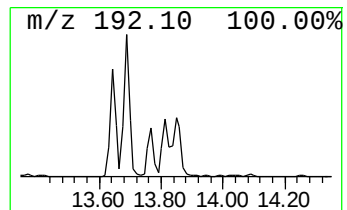
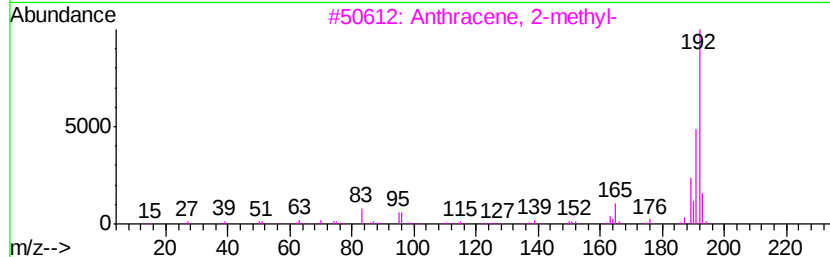
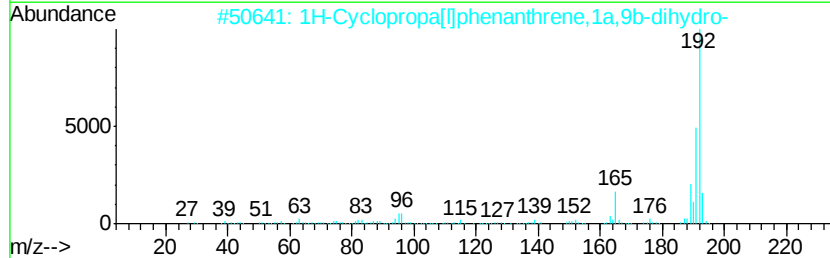
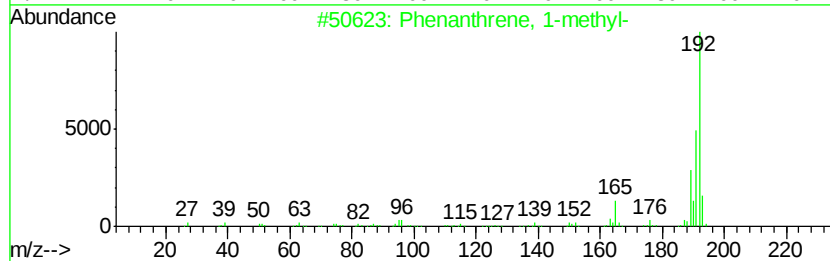
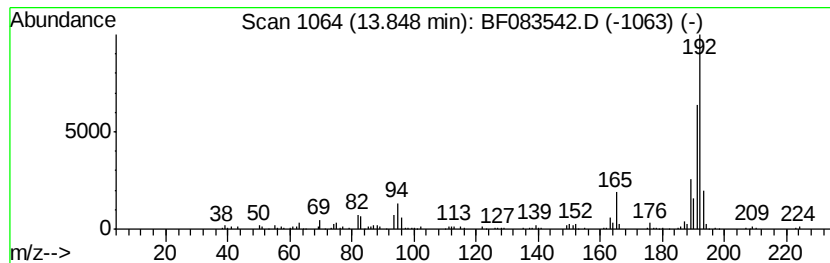
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 Phenanthrene, 1-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.85	9.63 ng	804197	Phenanthrene-d10	12.82	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94



Data Path : Z:\HPCHEM1\BNA F\DATA\BF120615\
Data File : BF083542.D
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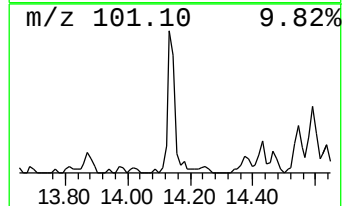
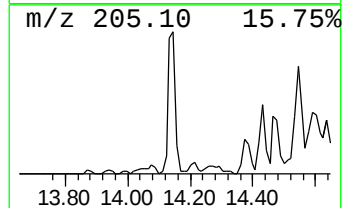
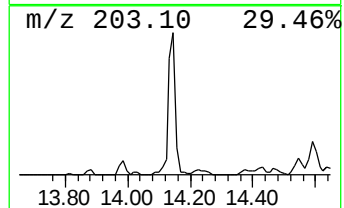
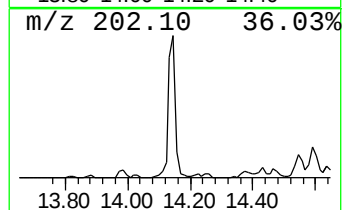
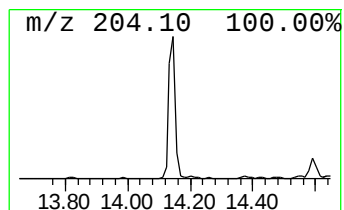
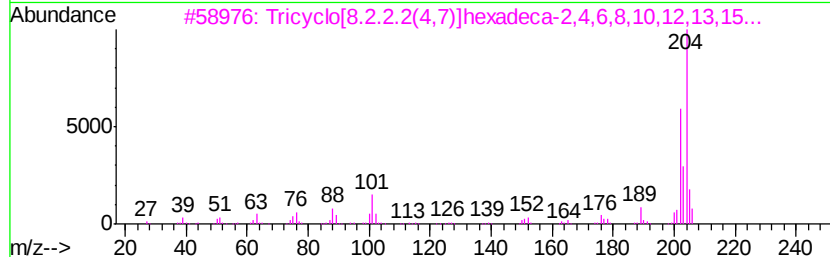
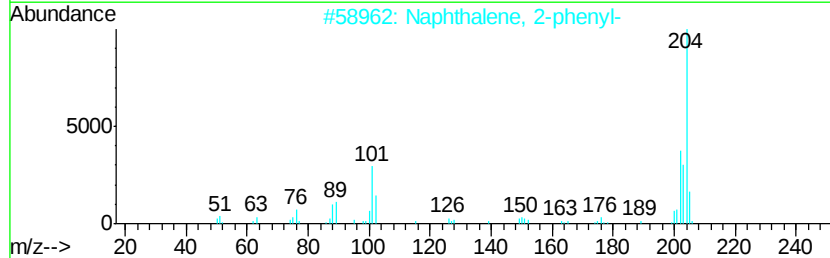
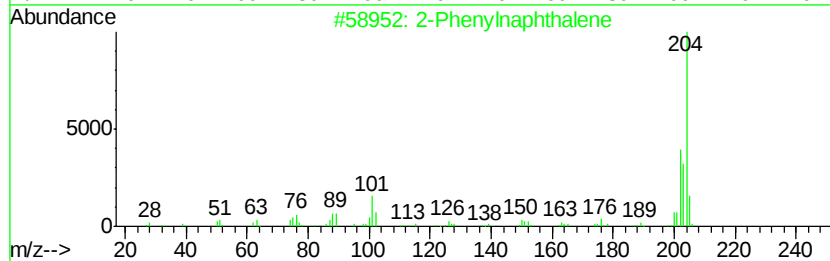
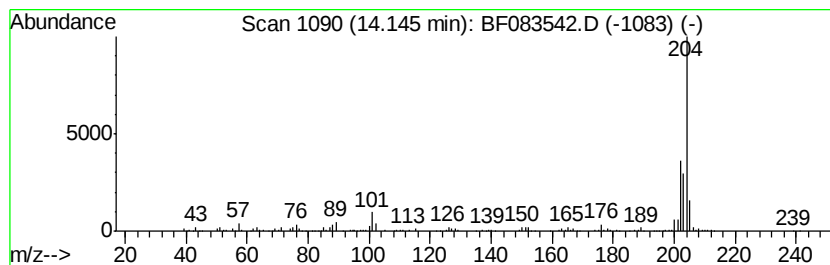
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 10 2-Phenylnaphthalene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.15	7.76 ng	647925	Phenanthrene-d10	12.82

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2-Phenylnaphthalene	204	C16H12	035465-71-5	94
2			Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	94
3			Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	80
4			Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	64
5			Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	58



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120615\
Data File : BF083542.D
Acq On : 7 Dec 2015 4:17
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Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
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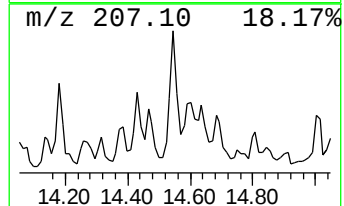
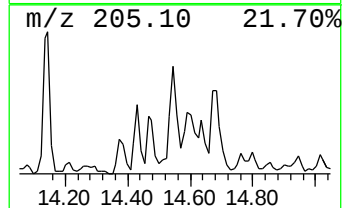
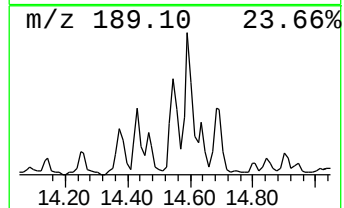
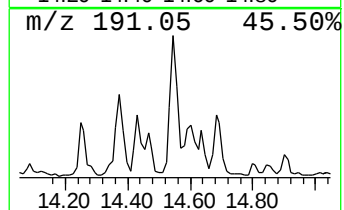
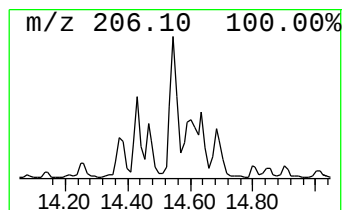
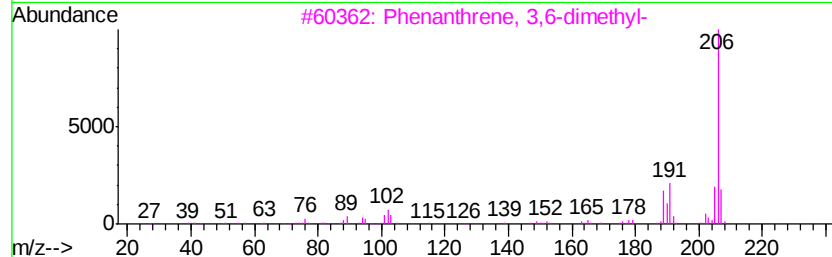
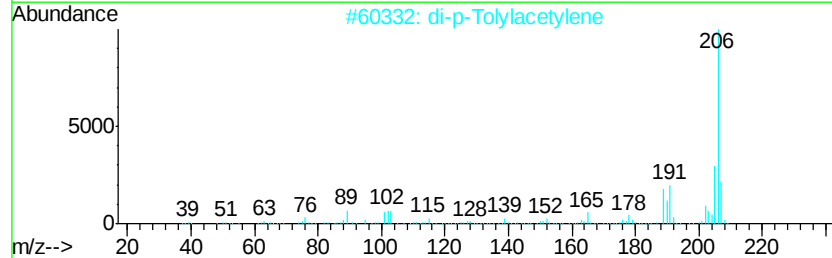
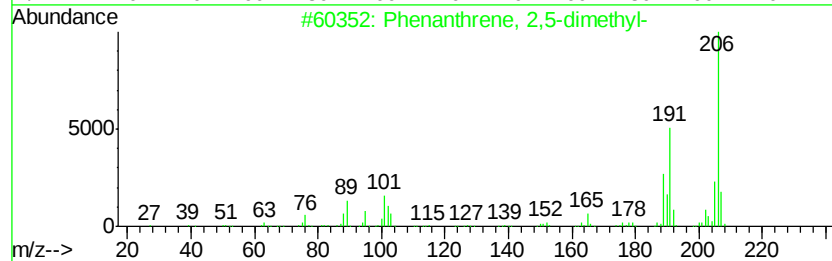
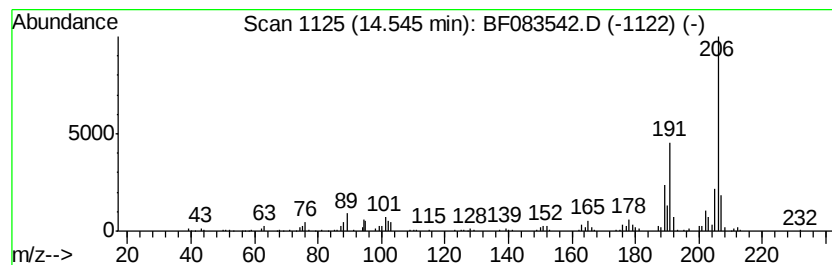
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 11 Phenanthrene, 2,5-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.55	4.41 ng	368712	Phenanthrene-d10	12.82

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2			di-p-Tolylacetylene	206	C16H14	002789-88-0	96
3			Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
4			Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
5			Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93



Data Path : Z:\HPCHEM1\BNA F\DATA\BF120615\
Data File : BF083542.D
Acq On : 7 Dec 2015 4:17
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ALS Vial : 16 Sample Multiplier: 1

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ClientSampleId :
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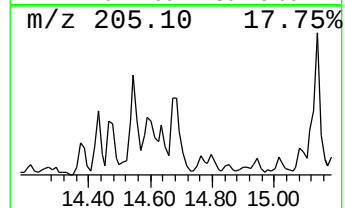
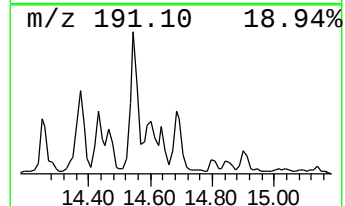
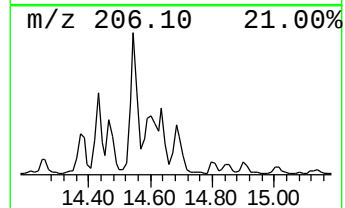
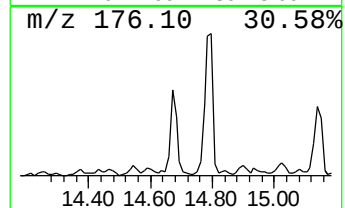
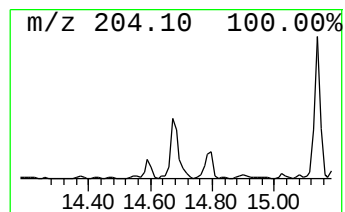
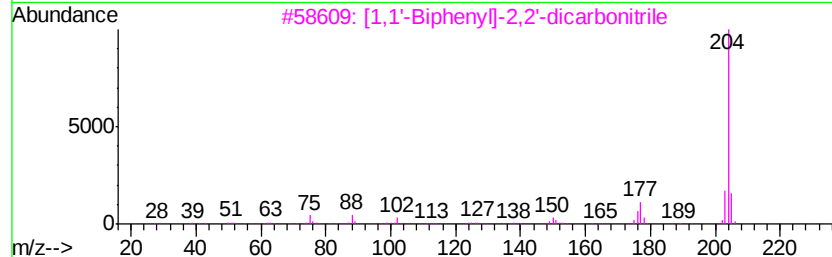
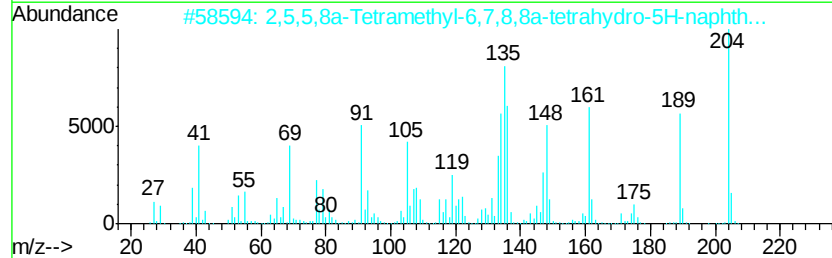
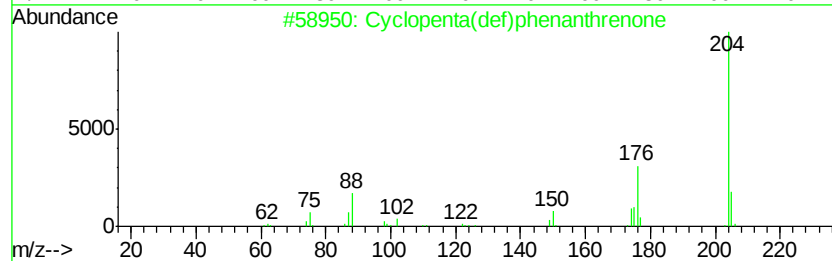
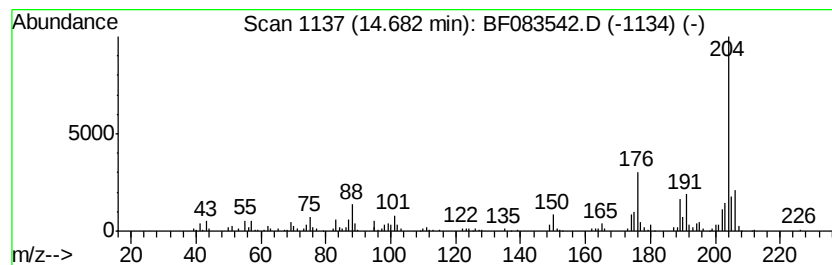
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 12 Cyclopenta(def)phenanthrenone Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.68	5.96 ng	497781	Phenanthrene-d10	12.82

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2		2,5,5,8a-Tetramethyl-6,7,8,8a-te...	204	C14H20O	124957-09-1	49
3		[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	47
4		Mannose, 6-deoxy-2,3,4,5-tetraki...	452	C18H44O5Si4	019127-15-2	47
5		[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	47



Data Path : Z:\HPCHEM1\BNA F\DATA\BF120615\
Data File : BF083542.D
Acq On : 7 Dec 2015 4:17
Operator : UM/IZ
Sample : G4614-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

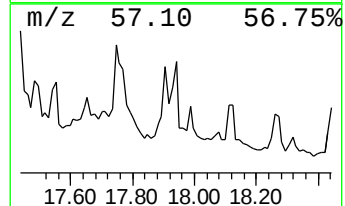
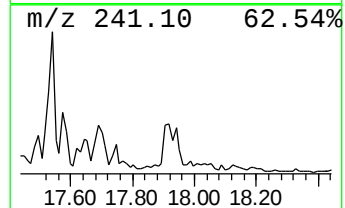
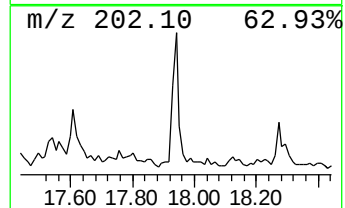
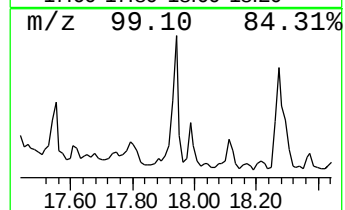
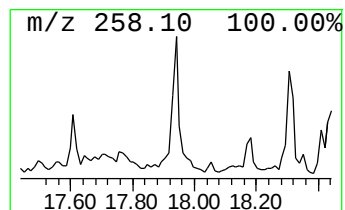
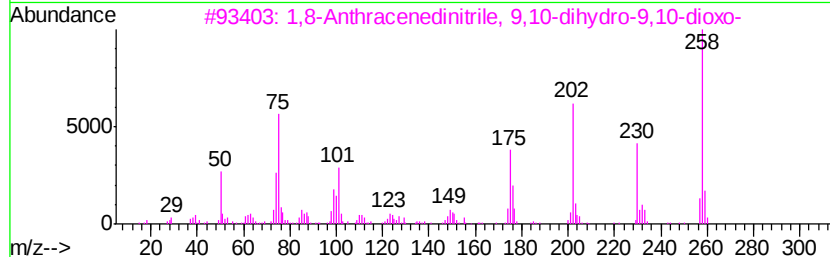
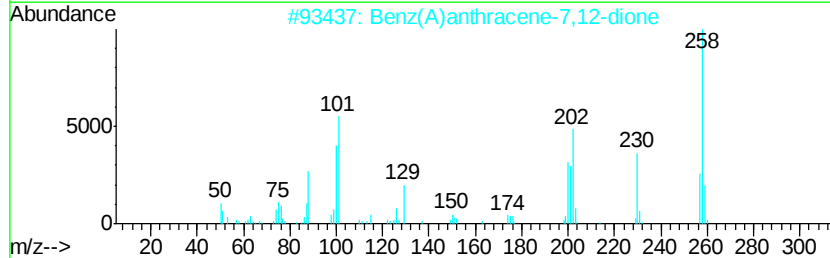
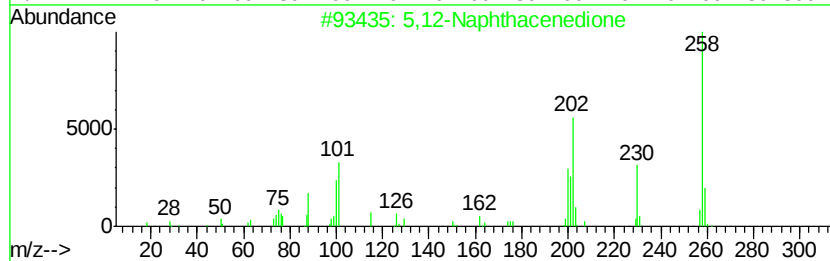
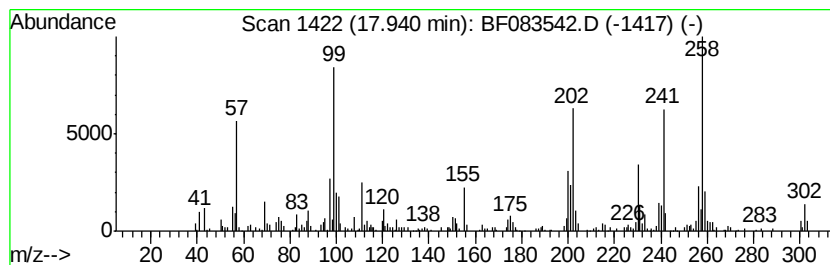
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 13 5,12-Naphthacenedione Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.		
17.94	9.36 ng	508934	Perylene-d12	18.65		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,12-Naphthacenedione	258	C18H10O2	001090-13-7	56	
2	Benz(A)anthracene-7,12-dione	258	C18H10O2	002498-66-0	50	
3	1,8-Anthracenedinitrile, 9,10-di...	258	C16H6N2O2	090866-50-5	50	
4	1,2,3,10,11,12-Hexahdropervylene	258	C20H18	007350-92-7	38	
5	6H-Dibenzo[b,d]pyran-6-one, 3,7,...	258	C14H10O5	000641-38-3	27	



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120615\
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Acq On : 7 Dec 2015 4:17
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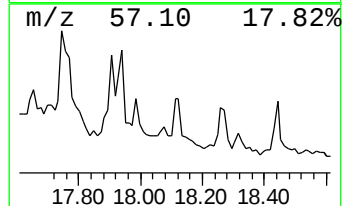
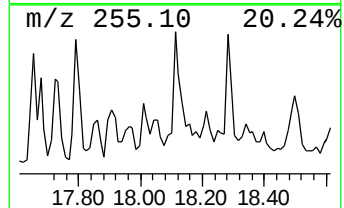
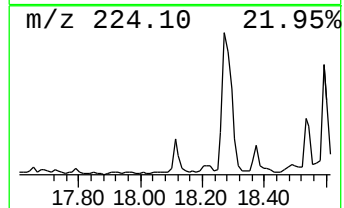
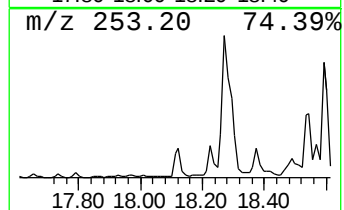
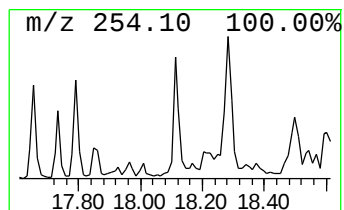
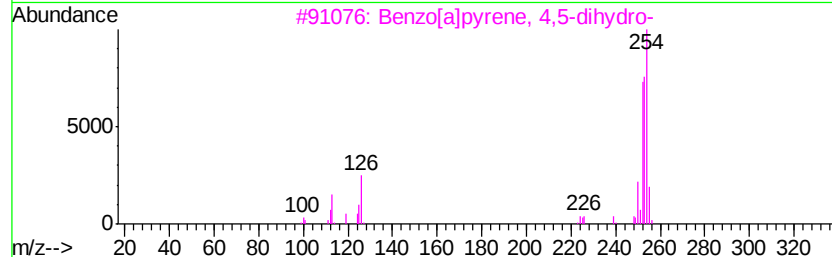
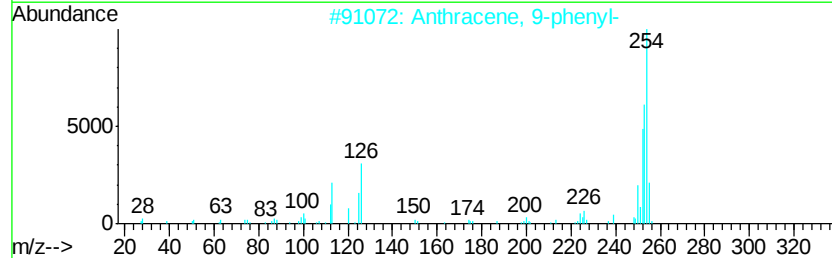
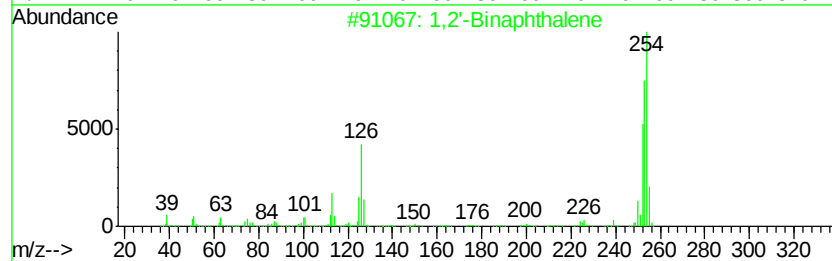
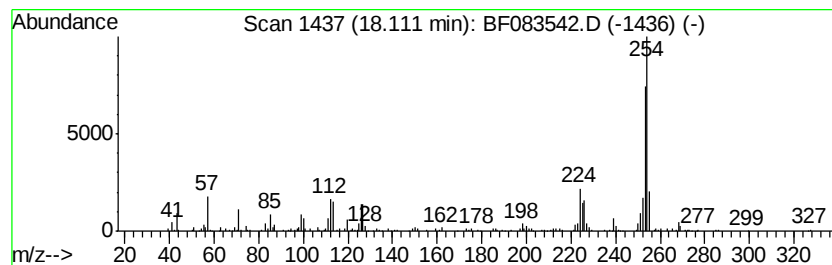
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 14 1,2'-Binaphthalene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.	
18.11	5.25 ng	285397	Perylene-d12	18.65	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2'-Binaphthalene	254	C20H14	004325-74-0	76
2	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	72
3	Benzo[alpvrene, 4,5-dihydro-	254	C20H14	057652-66-1	72
4	Imidazo[1,2-bl-1,2,4-triazine, 6...	254	C14H14N4O	1000277-24-4	72
5	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	64



Data Path : Z:\HPCHEM1\BNA F\DATA\BF120615\
Data File : BF083542.D
Acq On : 7 Dec 2015 4:17
Operator : UM/IZ
Sample : G4614-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
S6-14.5

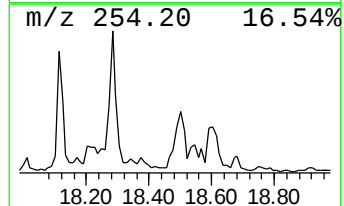
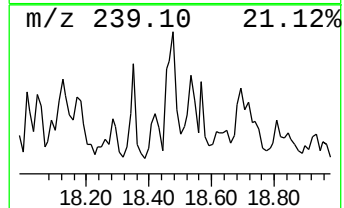
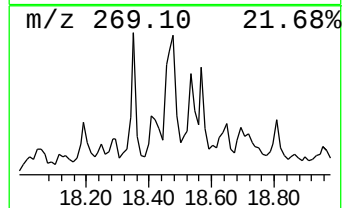
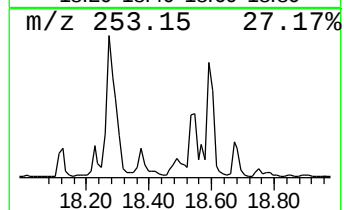
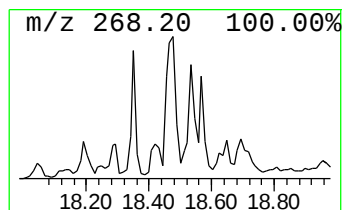
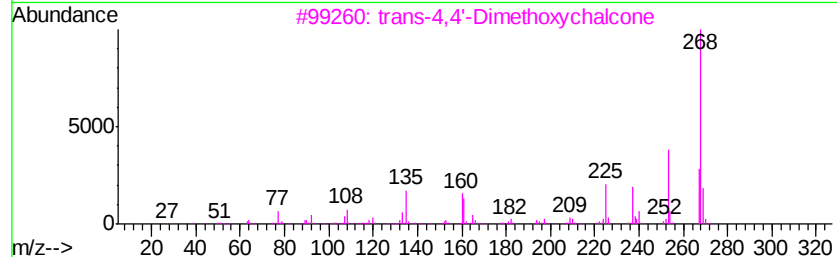
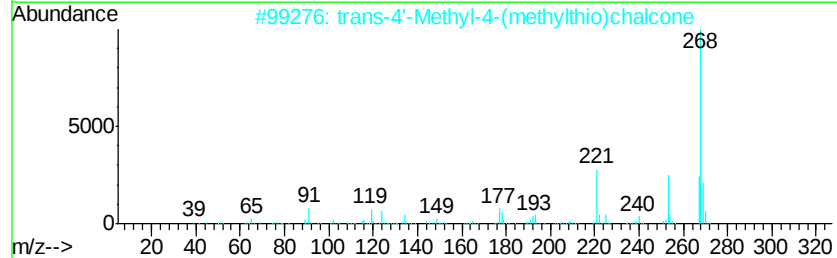
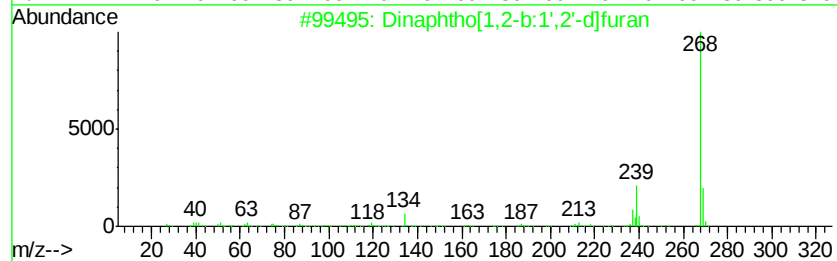
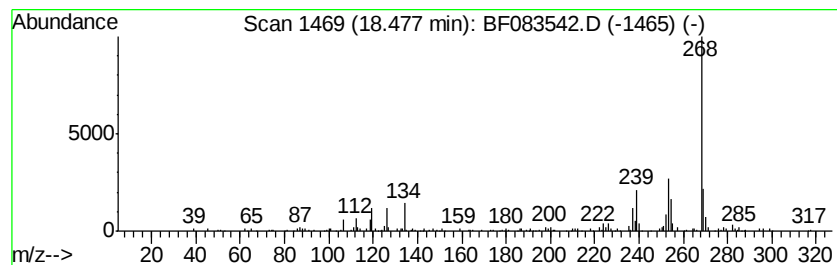
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 16 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.48	8.13 ng	442127	Perylene-d12	18.65

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	76
2		trans-4'-Methyl-4-(methylthio)ch...	268	C17H16OS	126443-27-4	64
3		trans-4,4'-Dimethoxychalcone	268	C17H16O3	041564-67-4	64
4		Naphthalene, 1,1'-methylenebis-	268	C21H16	000607-50-1	59
5		Benzene, 1,1'-(1-ethyl-1,2-ethen...	268	C18H20O2	025346-90-1	59



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120615\
Data File : BF083542.D
Acq On : 7 Dec 2015 4:17
Operator : UM/IZ
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Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
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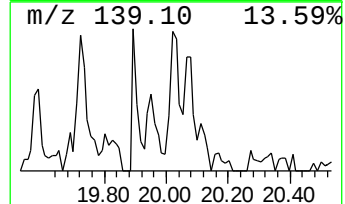
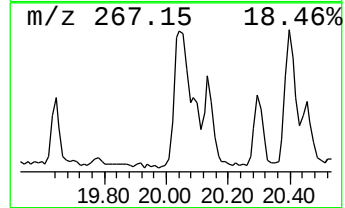
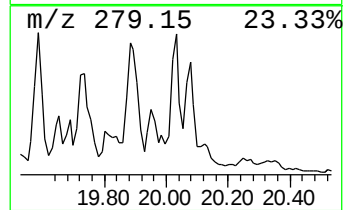
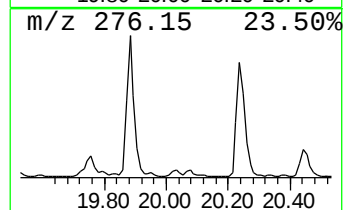
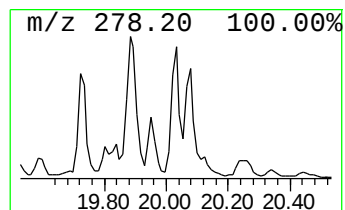
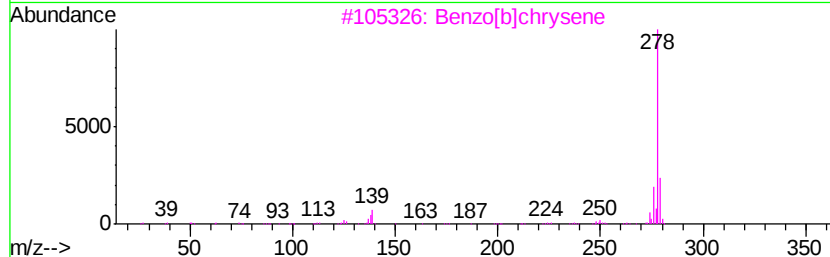
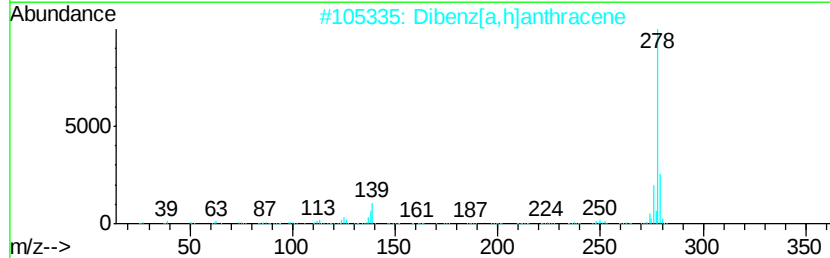
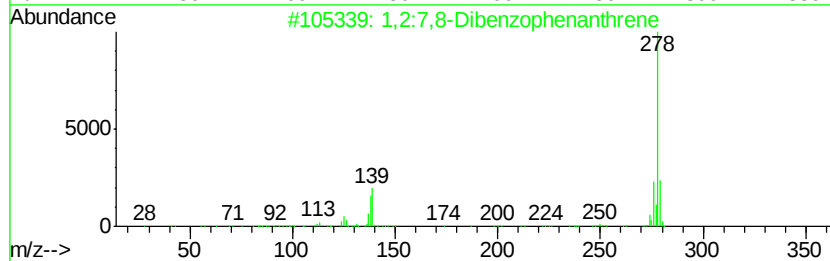
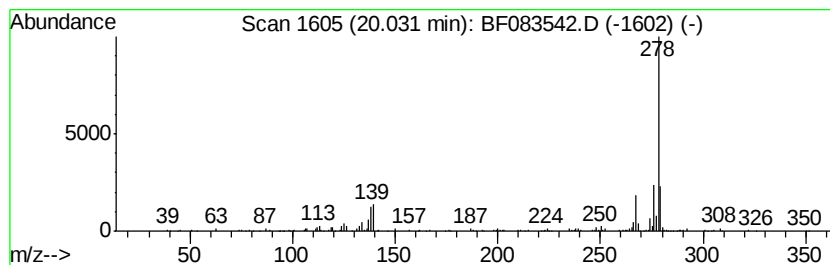
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 18 1,2:7,8-Dibenzophenanthrene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.03	5.33 ng	289538	Perylene-d12	18.65

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	98
2		Dibenz[a,h]anthracene	278	C22H14	000053-70-3	98
3		Benzo[b]chrysene	278	C22H14	000214-17-5	96
4		Pentaphene	278	C22H14	000222-93-5	93
5		Benzo[b]triphenylene	278	C22H14	000215-58-7	93



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120615\
 Data File : BF083542.D
 Acq On : 7 Dec 2015 4:17
 Operator : UM/IZ
 Sample : G4614-07
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
 TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-hy...	3.58	25.7	ng	1651810	1	5.73	1284980	20.0
unknown5.42	5.42	98.2	ng	6306900	1	5.73	1284980	20.0
9H-Fluoren-9-one	12.52	3.9	ng	328468	4	12.82	1670420	20.0
Anthracene, 1,2,3...	12.60	4.7	ng	389190	4	12.82	1670420	20.0
Phenanthrene, 2-m...	13.64	8.3	ng	696620	4	12.82	1670420	20.0
4H-Cyclopenta[def...	13.80	13.0	ng	1084030	4	12.82	1670420	20.0
Phenanthrene, 1-m...	13.85	9.6	ng	804197	4	12.82	1670420	20.0
2-Phenylnaphthalene	14.15	7.8	ng	647925	4	12.82	1670420	20.0
Phenanthrene, 2,5...	14.55	4.4	ng	368712	4	12.82	1670420	20.0
Cyclopenta(def)ph...	14.68	6.0	ng	497781	4	12.82	1670420	20.0
5,12-Naphthacened...	17.94	9.4	ng	508934	6	18.65	1087170	20.0
1,2'-Binaphthalene	18.11	5.3	ng	285397	6	18.65	1087170	20.0
Dinaphtho[1,2-b:1...	18.48	8.1	ng	442127	6	18.65	1087170	20.0
1,2:7,8-Dibenzoph...	20.03	5.3	ng	289538	6	18.65	1087170	20.0