

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101817\
 Data File : BF099640.D
 Acq On : 19 Oct 2017 1:51
 Operator : SJ/JU
 Sample : I5935-04 5X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-101617-B

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-BF092317.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	5.451	569	572	588	rBV	243774	269290	12.02%	0.597%
2	6.469	742	745	756	rBV	279277	290339	12.96%	0.644%
3	6.598	764	767	773	rVB	340909	307503	13.73%	0.682%
4	6.828	803	806	813	rBV	651806	518385	23.14%	1.150%
5	6.981	829	832	842	rVB	282160	245310	10.95%	0.544%
6	7.392	899	902	908	rBV	180017	172889	7.72%	0.384%
7	8.110	1020	1024	1026	rBV	802126	654748	29.23%	1.452%
8	8.128	1026	1027	1031	rVB	290170	217398	9.70%	0.482%
9	8.822	1141	1145	1148	rBV	951290	735306	32.82%	1.631%
10	8.922	1156	1162	1165	rBV	798636	680588	30.38%	1.510%
11	9.180	1200	1206	1209	rBV	418959	329193	14.69%	0.730%
12	9.375	1237	1239	1245	rVB	196948	245745	10.97%	0.545%
13	9.451	1246	1252	1255	rBV	579662	758841	33.87%	1.683%
14	9.522	1260	1264	1266	rBV	903299	885171	39.51%	1.964%
15	9.545	1266	1268	1273	rVB	599430	530335	23.67%	1.176%
16	9.639	1280	1284	1286	rBV	455765	434830	19.41%	0.965%
17	9.722	1295	1298	1303	rVB	563606	497765	22.22%	1.104%
18	9.839	1315	1318	1320	rBV	234940	219925	9.82%	0.488%
19	9.863	1320	1322	1325	rVV2	686843	553828	24.72%	1.229%
20	9.898	1325	1328	1330	rVV2	261442	237781	10.61%	0.527%
21	9.963	1336	1339	1344	rBV2	206678	283983	12.68%	0.630%
22	10.063	1350	1356	1360	rVV2	379993	434528	19.40%	0.964%
23	10.104	1360	1363	1366	rVB	404609	323315	14.43%	0.717%
24	10.175	1371	1375	1378	rBV	362706	386065	17.23%	0.856%
25	10.204	1378	1380	1386	rVB	263288	245684	10.97%	0.545%
26	10.269	1386	1391	1392	rBV2	242521	322705	14.40%	0.716%
27	10.286	1392	1394	1397	rVB	226363	167597	7.48%	0.372%
28	10.410	1412	1415	1420	rVV2	616383	709721	31.68%	1.574%
29	10.563	1437	1441	1445	rVV4	128798	226571	10.11%	0.503%
30	10.651	1450	1456	1459	rBV3	225647	370410	16.53%	0.822%
31	10.774	1471	1477	1482	rVB2	140214	186909	8.34%	0.415%
32	10.957	1503	1508	1511	rVV2	442255	642094	28.66%	1.424%
33	10.986	1511	1513	1516	rVV	452048	393971	17.59%	0.874%
34	11.039	1520	1522	1525	rVV	316347	285670	12.75%	0.634%

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Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.086	1525	1530	1532	rVV2	128804	243230	10.86%	0.540%
36	11.110	1532	1534	1538	rVV2	146254	190092	8.49%	0.422%
37	11.157	1540	1542	1547	rVV2	172043	218423	9.75%	0.485%
38	11.251	1552	1558	1562	rVB	321329	355787	15.88%	0.789%
39	11.351	1572	1575	1577	rBV	551786	535205	23.89%	1.187%
40	11.380	1577	1580	1583	rVV	2279339	1955367	87.28%	4.338%
41	11.427	1585	1588	1591	rVV	549644	482462	21.54%	1.070%
42	11.463	1591	1594	1596	rVV2	228630	282791	12.62%	0.627%
43	11.504	1599	1601	1607	rVV3	142717	241619	10.79%	0.536%
44	11.586	1611	1615	1620	rBV3	123641	234673	10.48%	0.521%
45	11.680	1627	1631	1635	rBV2	326278	344017	15.36%	0.763%
46	11.769	1642	1646	1650	rVB	212031	245952	10.98%	0.546%
47	11.857	1657	1661	1663	rVV	1043240	983487	43.90%	2.182%
48	11.886	1663	1666	1669	rVB	1322124	1096365	48.94%	2.432%
49	11.933	1669	1674	1676	rBV	488860	472171	21.08%	1.047%
50	11.969	1676	1680	1682	rVV2	1024780	1246334	55.63%	2.765%
51	11.992	1682	1684	1687	rVB	987120	720954	32.18%	1.599%
52	12.145	1703	1710	1713	rBV	423700	488689	21.81%	1.084%
53	12.298	1734	1736	1738	rVV	250406	214488	9.57%	0.476%
54	12.327	1738	1741	1743	rVV	350461	307770	13.74%	0.683%
55	12.351	1743	1745	1748	rVB2	241903	218549	9.76%	0.485%
56	12.404	1748	1754	1757	rBV	905398	1004272	44.83%	2.228%
57	12.445	1757	1761	1763	rVV2	511025	751431	33.54%	1.667%
58	12.463	1763	1764	1766	rVV	348834	174594	7.79%	0.387%
59	12.498	1766	1770	1778	rVB3	315804	714624	31.90%	1.585%
60	12.568	1778	1782	1786	rBV	1498899	1505397	67.20%	3.339%
61	12.610	1786	1789	1791	rVV	171686	160846	7.18%	0.357%
62	12.633	1791	1793	1796	rVB	216710	176323	7.87%	0.391%
63	12.721	1805	1808	1810	rBV2	204862	180489	8.06%	0.400%
64	12.804	1815	1822	1827	rBV	2002018	2240279	100.00%	4.970%
65	12.851	1827	1830	1833	rVB	293300	289159	12.91%	0.641%
66	12.933	1841	1844	1846	rVV	328140	330100	14.73%	0.732%
67	12.951	1846	1847	1851	rVB2	186011	170902	7.63%	0.379%
68	13.015	1854	1858	1864	rBV4	324570	592903	26.47%	1.315%
69	13.068	1864	1867	1869	rBV2	155901	145751	6.51%	0.323%
70	13.104	1869	1873	1874	rBV2	277331	293058	13.08%	0.650%
71	13.127	1874	1877	1880	rVB	597956	571727	25.52%	1.268%

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72	13.192	1886	1888	1891	rVB	425412	333728	14.90%	0.740%
73	13.233	1891	1895	1898	rBV	591814	519877	23.21%	1.153%
74	13.292	1902	1905	1908	rBV2	97821	145654	6.50%	0.323%
75	13.327	1908	1911	1913	rVV	472309	430320	19.21%	0.955%
76	13.357	1913	1916	1919	rVB	566050	476364	21.26%	1.057%
77	13.527	1942	1945	1947	rVV	200567	249634	11.14%	0.554%
78	13.551	1947	1949	1955	rVV	210219	294935	13.17%	0.654%
79	13.610	1955	1959	1962	rVV3	193417	337307	15.06%	0.748%
80	13.639	1962	1964	1968	rVV3	271820	323253	14.43%	0.717%
81	13.733	1977	1980	1981	rVV	172221	159058	7.10%	0.353%
82	13.751	1981	1983	1985	rVV2	261426	274374	12.25%	0.609%
83	13.768	1985	1986	1989	rVB	220722	177678	7.93%	0.394%
84	13.804	1989	1992	1998	rBV3	128223	294444	13.14%	0.653%
85	13.992	2020	2024	2028	rVV2	1052504	1695917	75.70%	3.762%
86	14.027	2028	2030	2033	rVV	959927	830785	37.08%	1.843%
87	14.157	2049	2052	2056	rVV4	130946	220288	9.83%	0.489%
88	14.386	2086	2091	2094	rVV	481201	591570	26.41%	1.312%
89	14.415	2094	2096	2099	rVV	265307	276751	12.35%	0.614%
90	14.457	2100	2103	2105	rVV3	171490	218900	9.77%	0.486%
91	14.480	2105	2107	2110	rVV2	184458	200197	8.94%	0.444%
92	14.510	2110	2112	2114	rVV	291794	267814	11.95%	0.594%
93	14.533	2114	2116	2119	rVV2	171936	169377	7.56%	0.376%
94	15.039	2198	2202	2205	rBV	375097	532962	23.79%	1.182%
95	15.345	2250	2254	2258	rVB	285705	331085	14.78%	0.734%
96	15.404	2260	2264	2269	rVV	407673	531222	23.71%	1.178%
97	15.468	2271	2275	2278	rVV	339569	404958	18.08%	0.898%
98	15.504	2278	2281	2286	rVB3	105292	163435	7.30%	0.363%
99	16.945	2521	2526	2532	rVB	143336	264319	11.80%	0.586%
100	17.392	2598	2602	2610	rVB	109967	218863	9.77%	0.486%

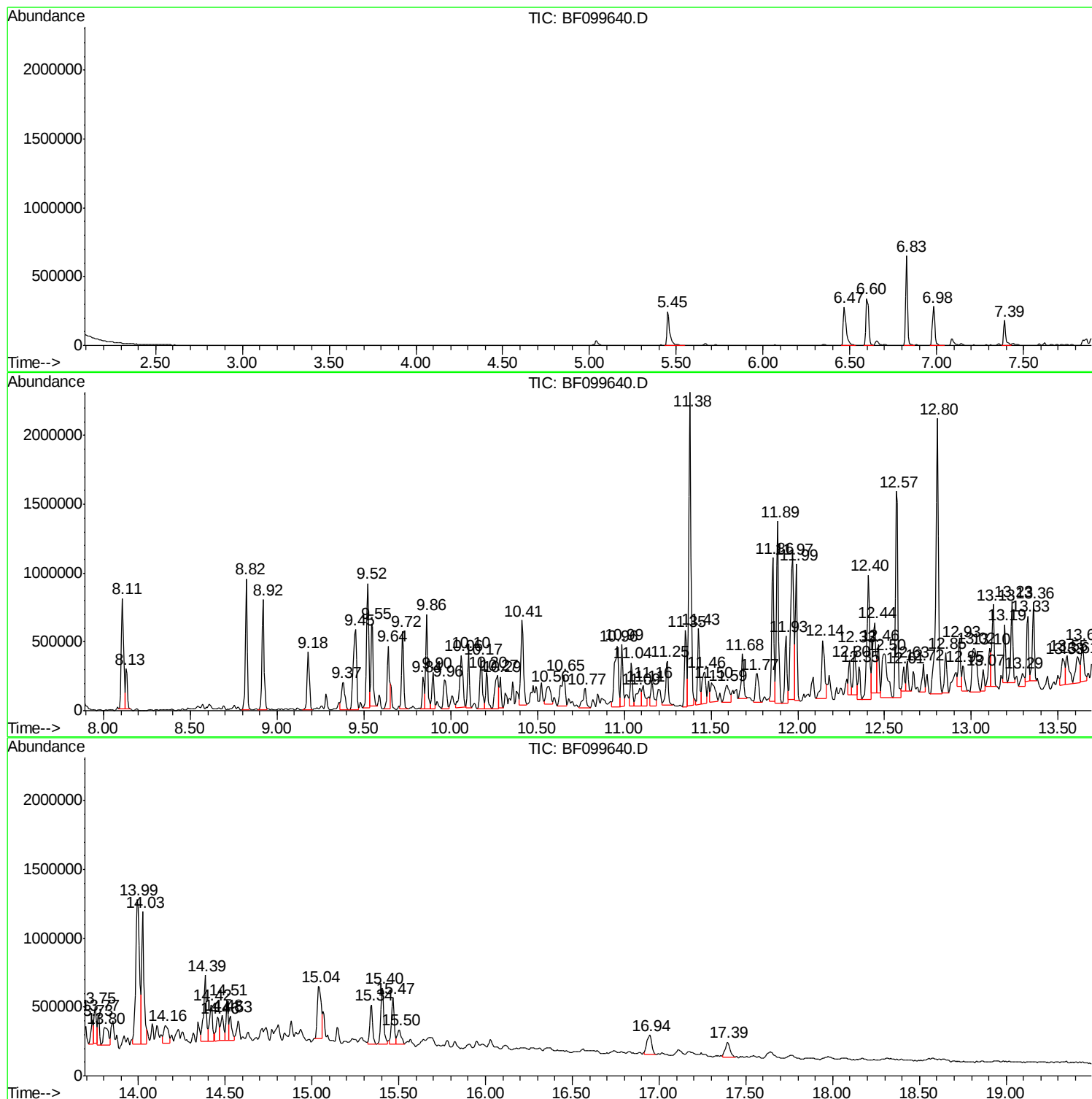
Sum of corrected areas: 45079742

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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



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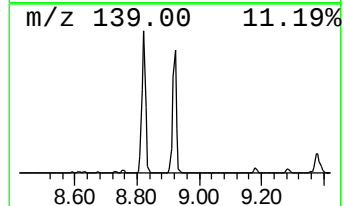
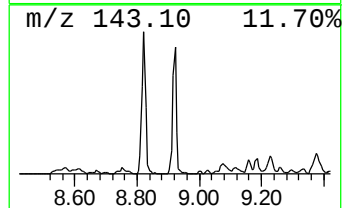
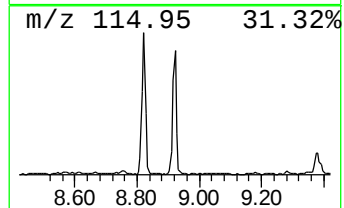
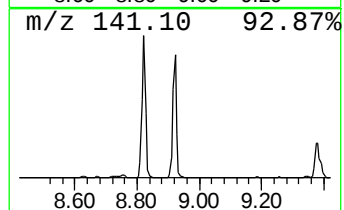
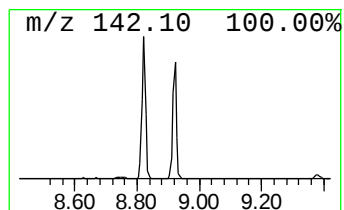
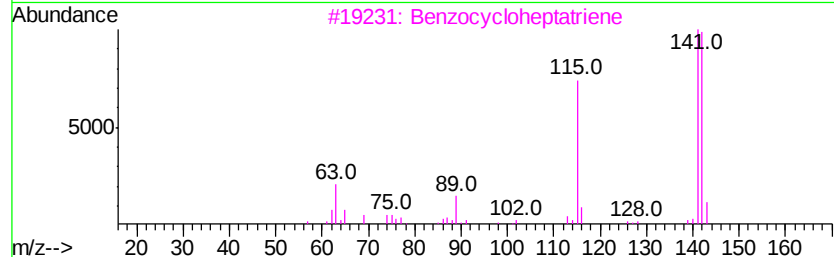
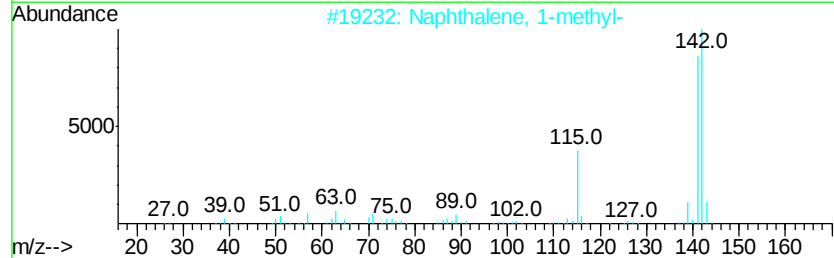
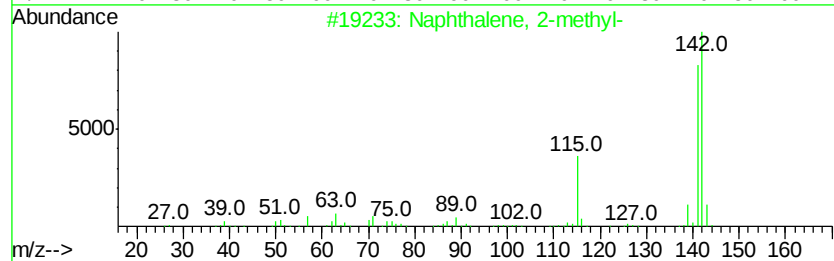
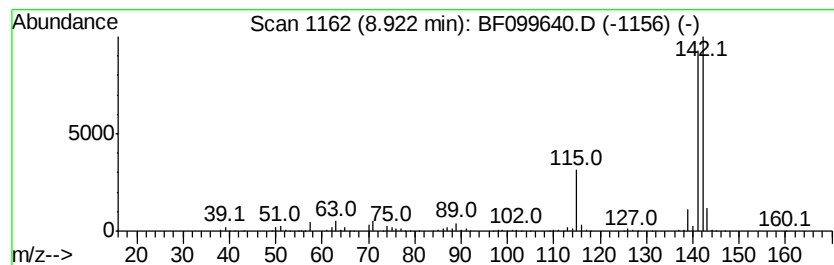
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 Naphthalene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.		
8.92	20.79 ng	680588	Naphthalene-d8	8.11		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
2		Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
3		Benzocycloheptatriene	142	C11H10	000264-09-5	91
4		1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	91
5		1H-Indene, 1-ethylidene-	142	C11H10	002471-83-2	87



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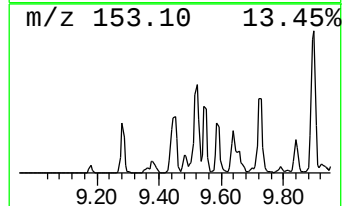
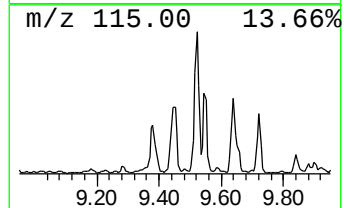
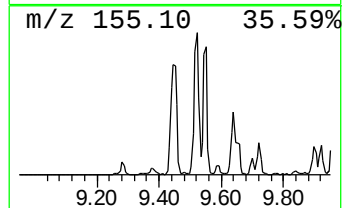
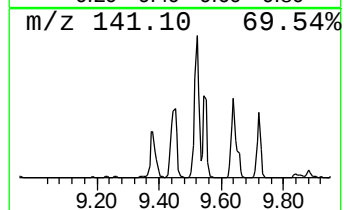
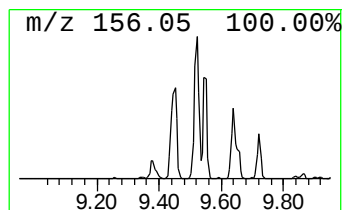
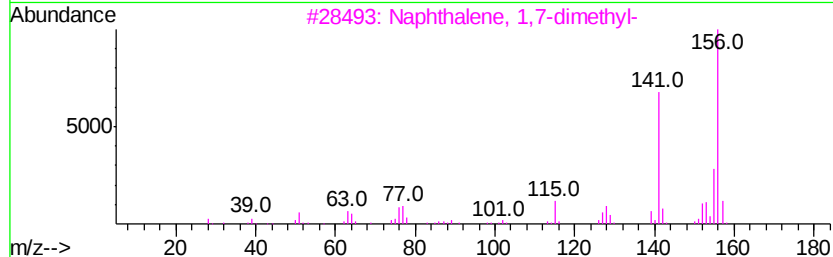
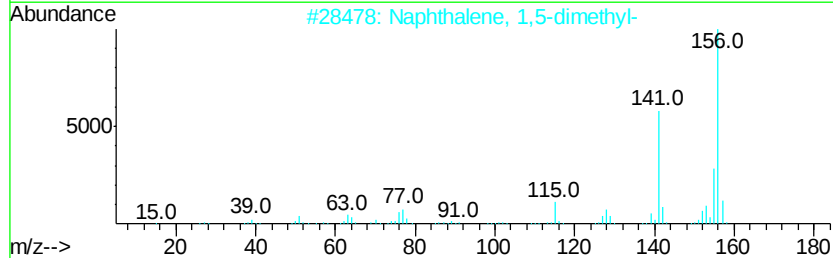
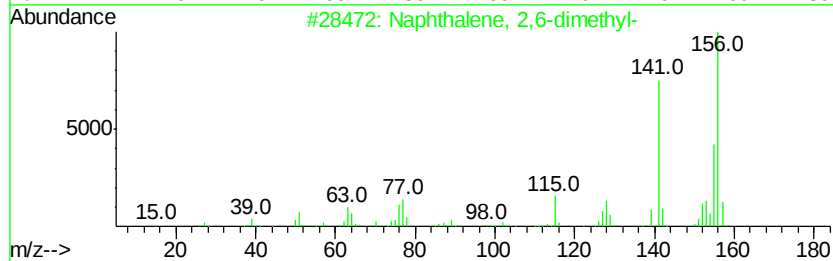
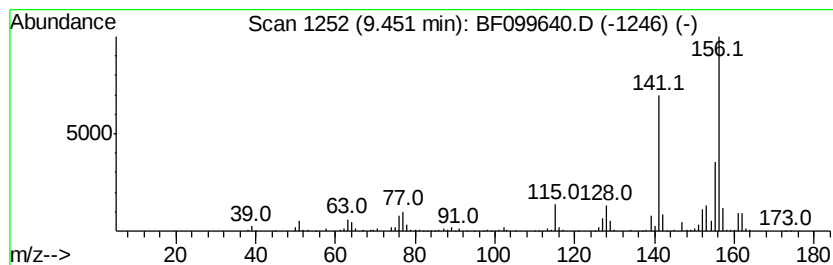
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 Naphthalene, 2,6-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.45	27.40 ng	758841	Acenaphthene-d10	9.86
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Naphthalene, 2,6-dimethyl-	156 C12H12	000581-42-0 98
2		Naphthalene, 1,5-dimethyl-	156 C12H12	000571-61-9 97
3		Naphthalene, 1,7-dimethyl-	156 C12H12	000575-37-1 97
4		Naphthalene, 1,6-dimethyl-	156 C12H12	000575-43-9 97
5		Naphthalene, 2,7-dimethyl-	156 C12H12	000582-16-1 97



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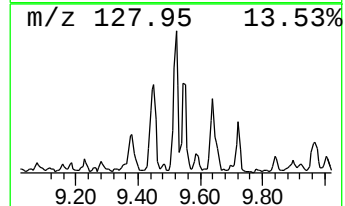
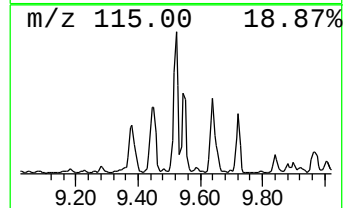
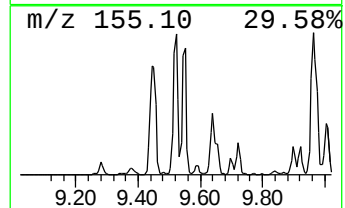
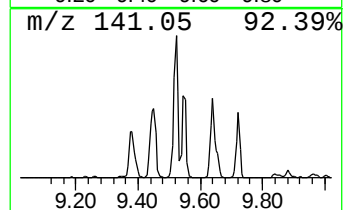
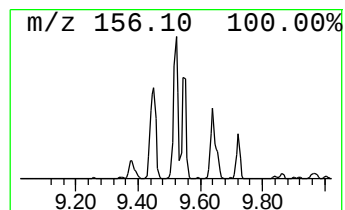
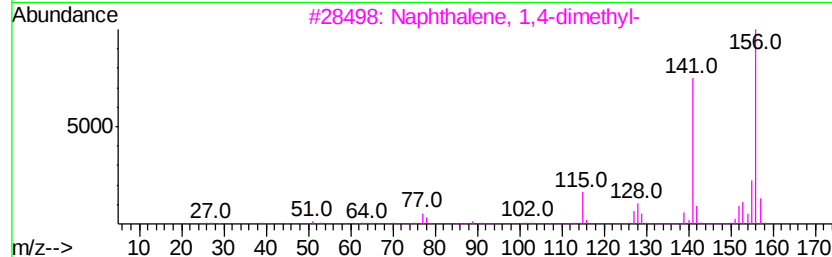
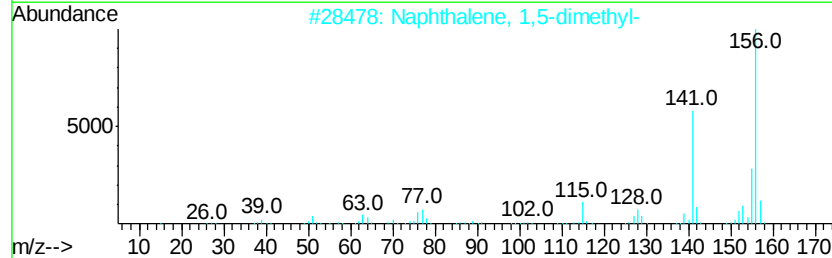
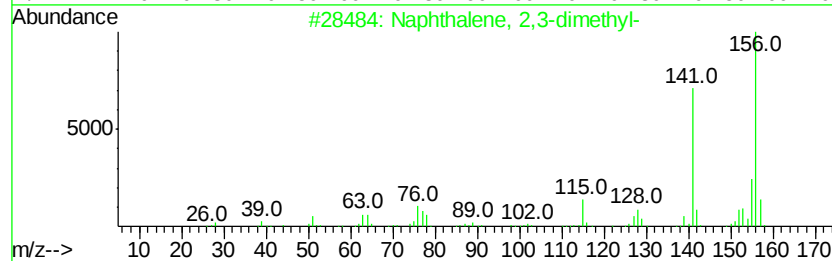
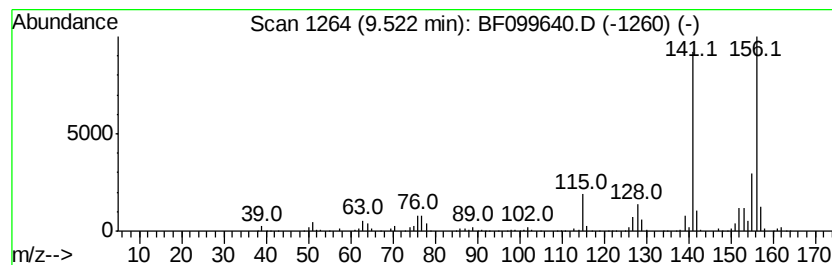
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Peak Number 3 Naphthalene, 2,3-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.52	31.97 ng	885171	Acenaphthene-d10	9.86
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Naphthalene, 2,3-dimethyl-	156 C12H12	000581-40-8 97
2		Naphthalene, 1,5-dimethyl-	156 C12H12	000571-61-9 97
3		Naphthalene, 1,4-dimethyl-	156 C12H12	000571-58-4 97
4		Naphthalene, 1,3-dimethyl-	156 C12H12	000575-41-7 97
5		Naphthalene, 1,7-dimethyl-	156 C12H12	000575-37-1 97



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Sample : I5935-04 5X
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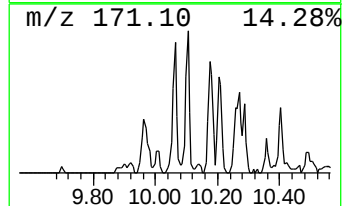
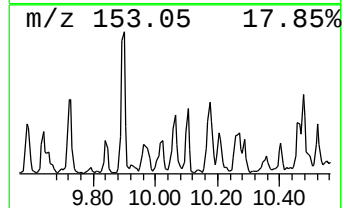
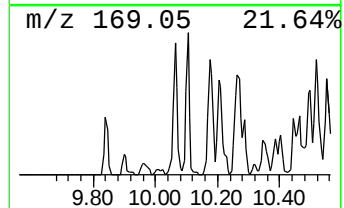
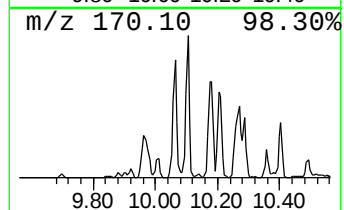
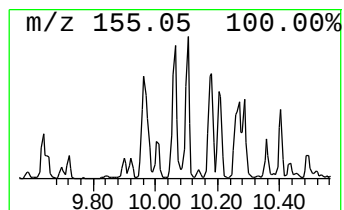
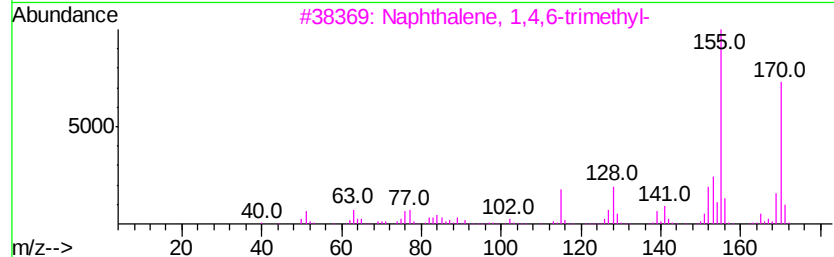
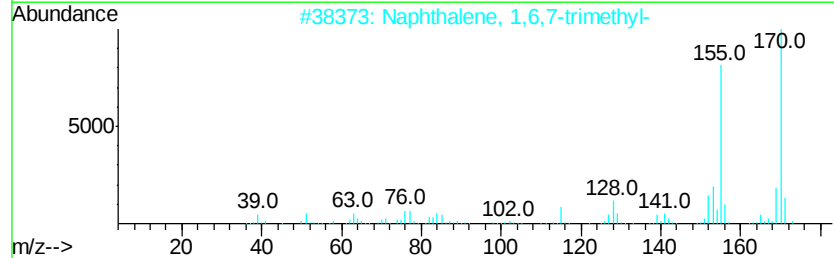
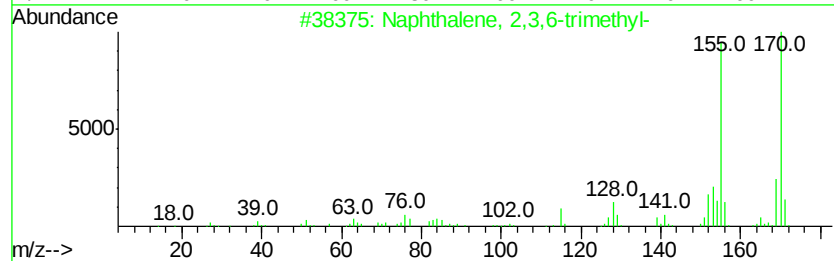
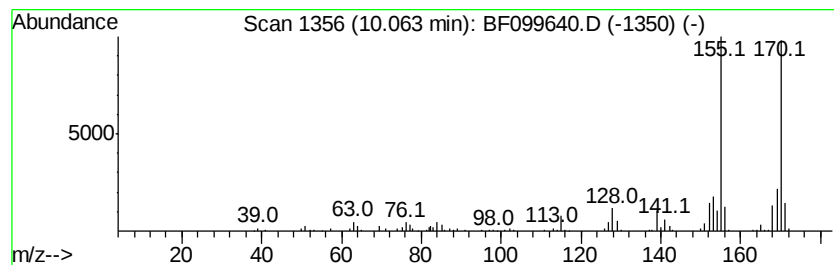
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 Naphthalene, 2,3,6-trimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.	
10.06	15.69 ng	434528	Acenaphthene-d10	9.86	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	98
2	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	96
3	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	95
4	3-(2-Methyl-propenyl)-1H-indene	170	C13H14	1000187-78-5	86
5	Naphthalene, 2-(1-methylethyl)-	170	C13H14	002027-17-0	64



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101817\
Data File : BF099640.D
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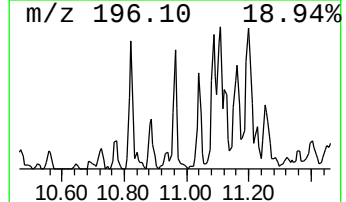
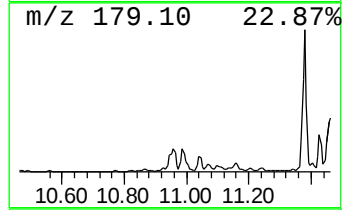
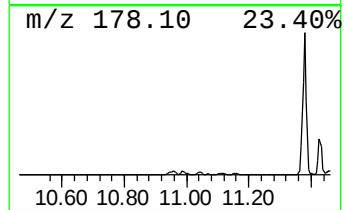
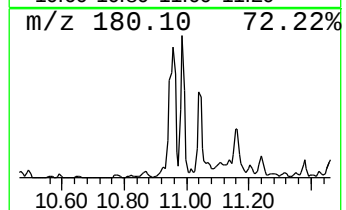
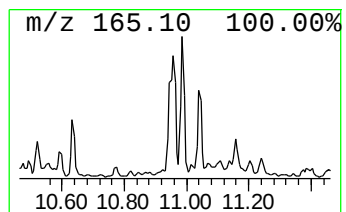
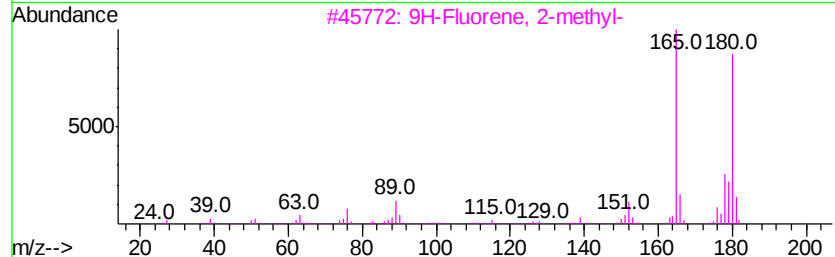
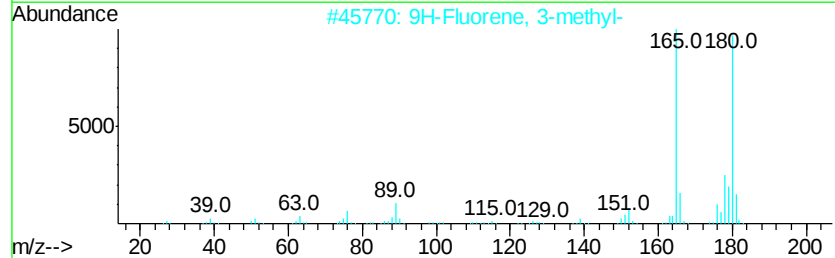
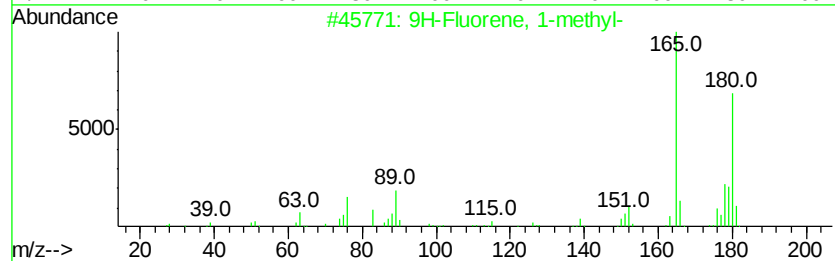
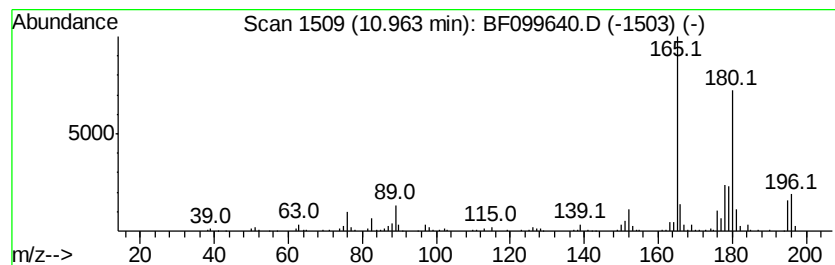
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 8 9H-Fluorene, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	23.99 ng	642094	Phenanthrene-d10	11.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	95
2		9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	93
3		9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	93
4		4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	92
5		9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	90



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101817\
Data File : BF099640.D
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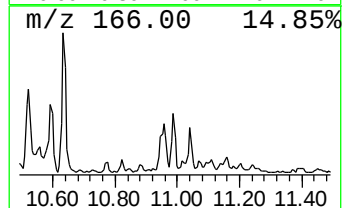
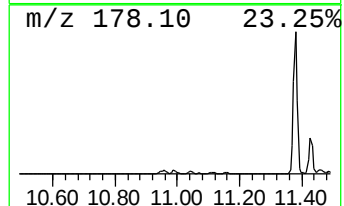
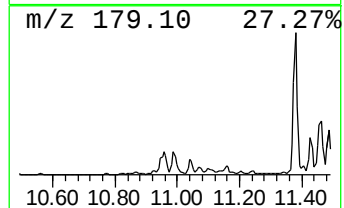
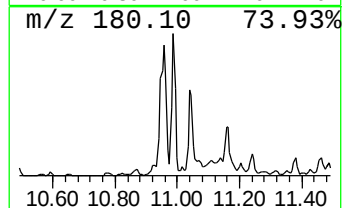
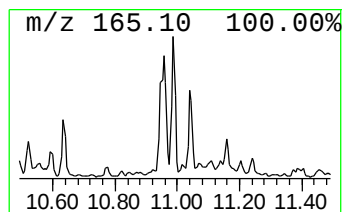
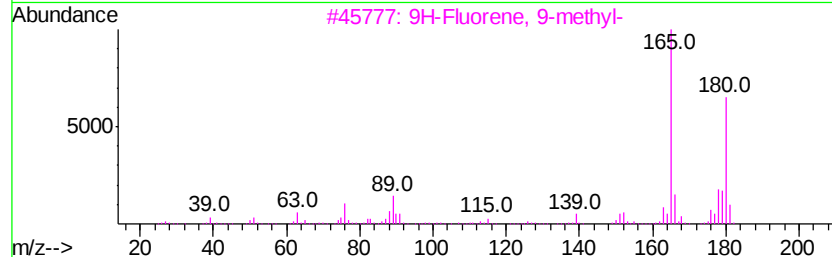
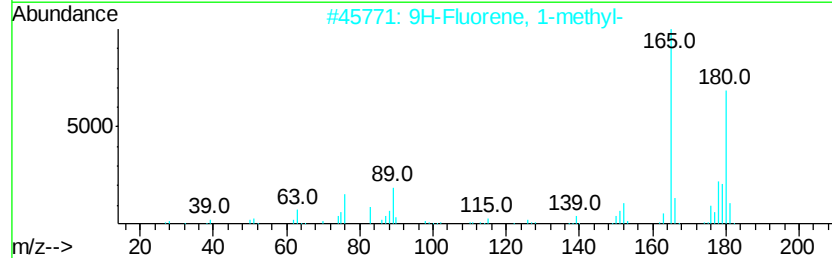
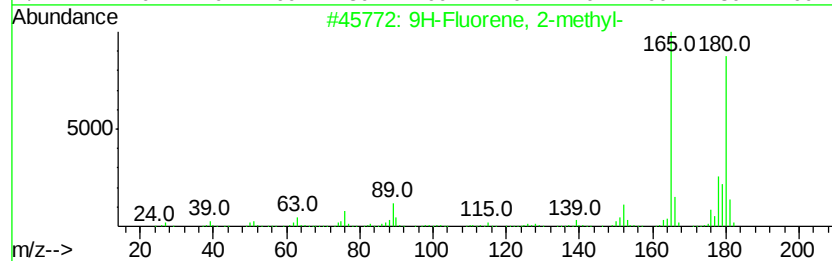
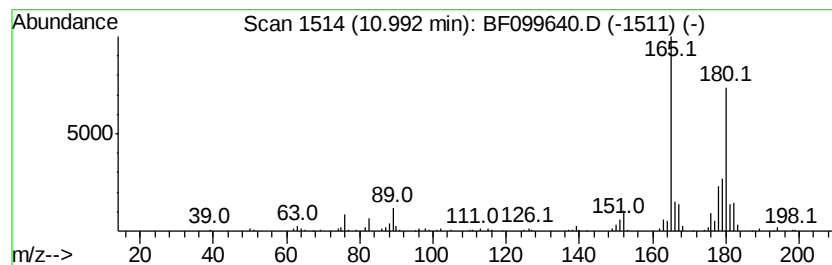
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 9H-Fluorene, 2-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.99	14.72 ng	393971	Phenanthrene-d10	11.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	97
2		9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	94
3		9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	87
4		9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	81
5		9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	72



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101817\
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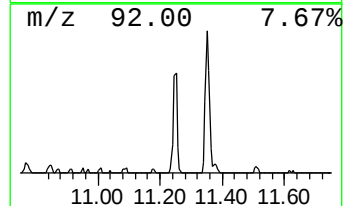
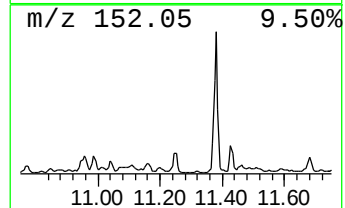
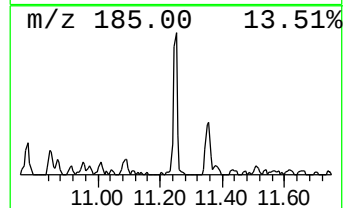
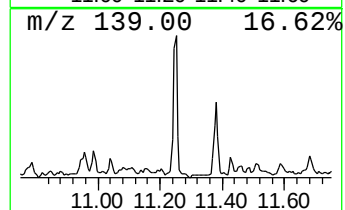
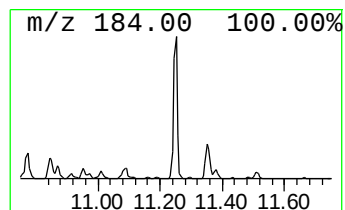
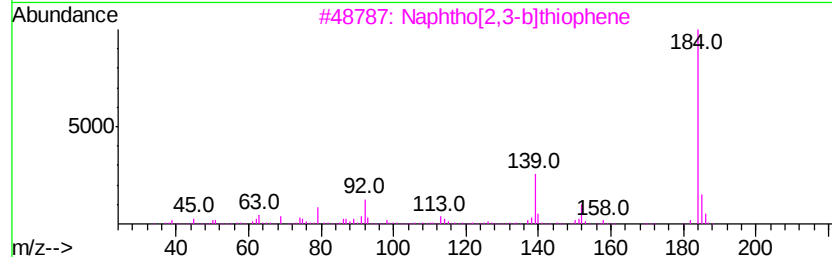
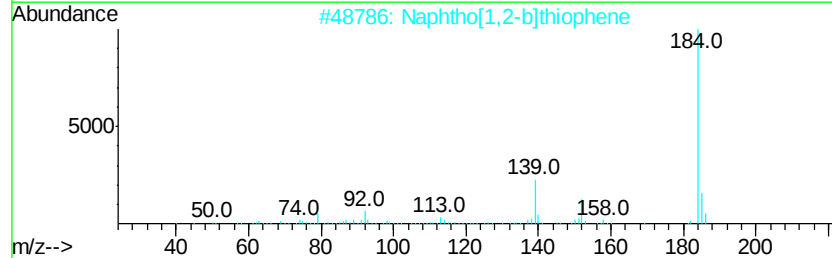
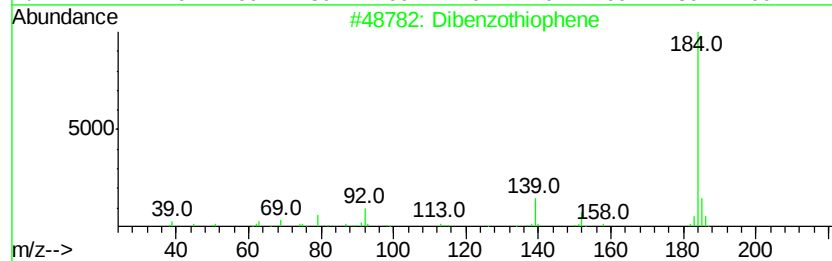
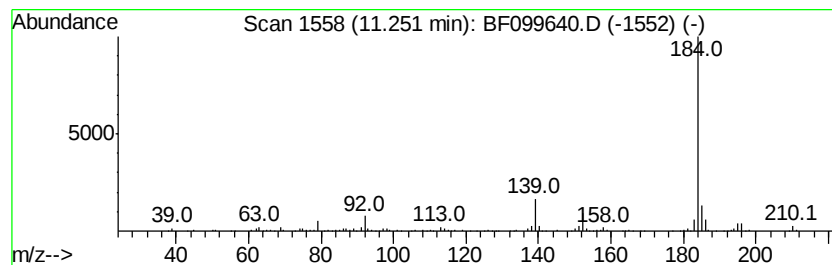
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 10 Dibenzothiophene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.25	13.30 ng	355787	Phenanthrene-d10	11.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenzothiophene	184	C12H8S	000132-65-0	96
2		Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
3		Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
4		Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	91
5		Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	87



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101817\
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Misc :
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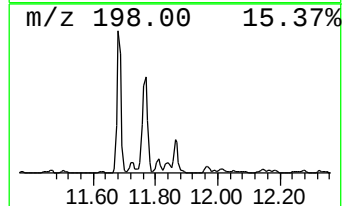
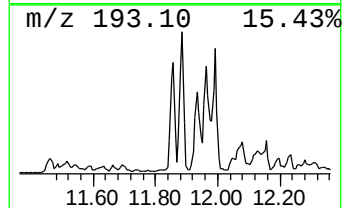
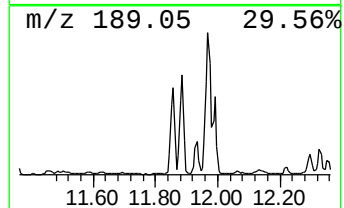
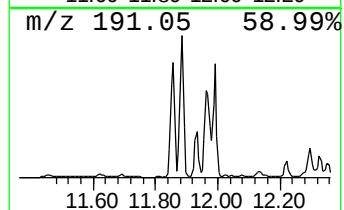
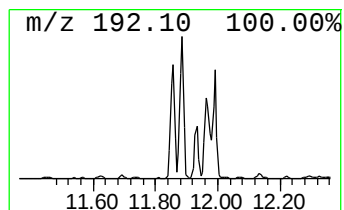
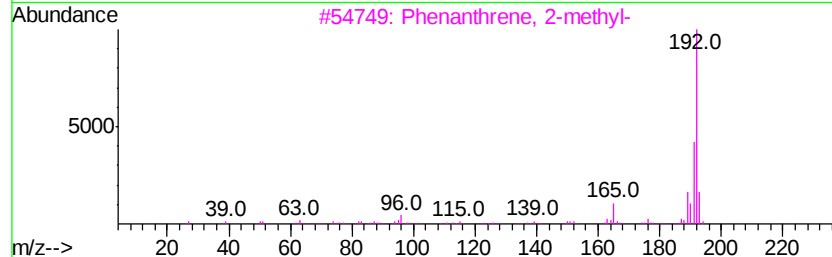
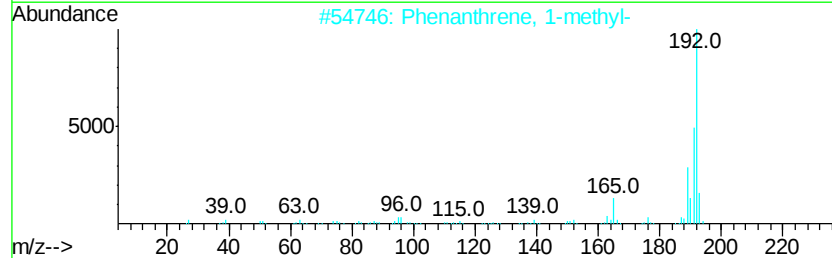
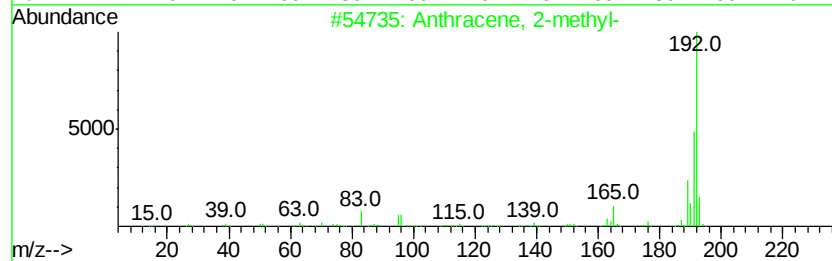
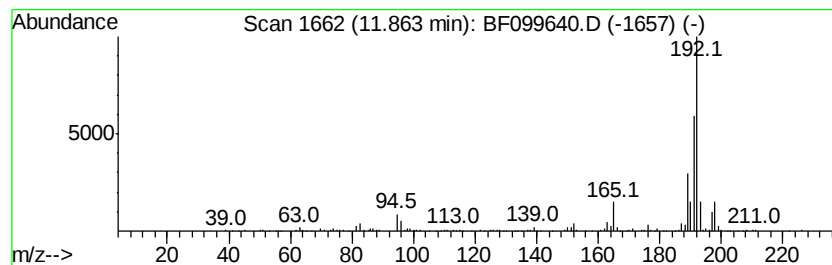
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 11 Anthracene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD		R.T.
11.86	36.75 ng	983487	Phenanthrene-d10		11.35
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	92
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101817\
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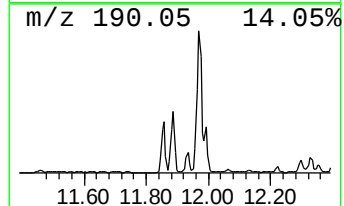
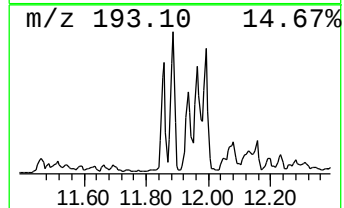
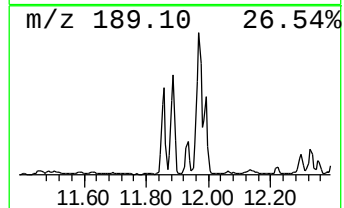
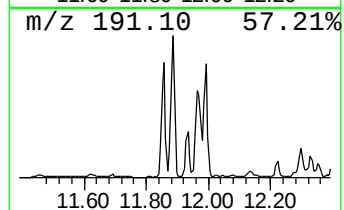
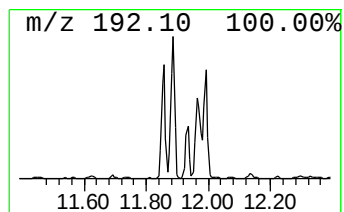
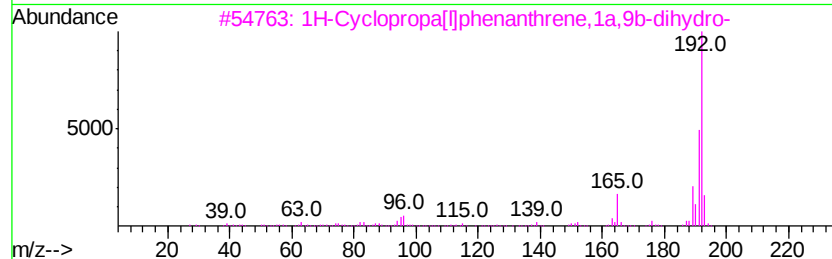
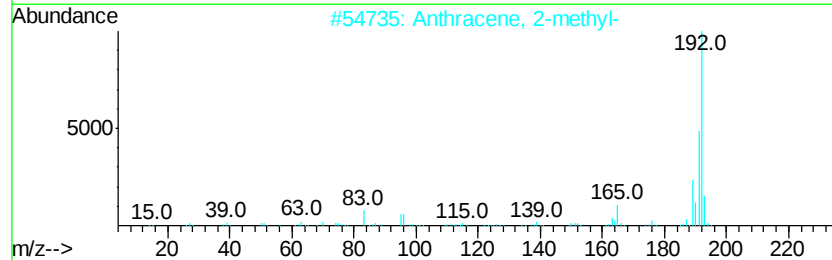
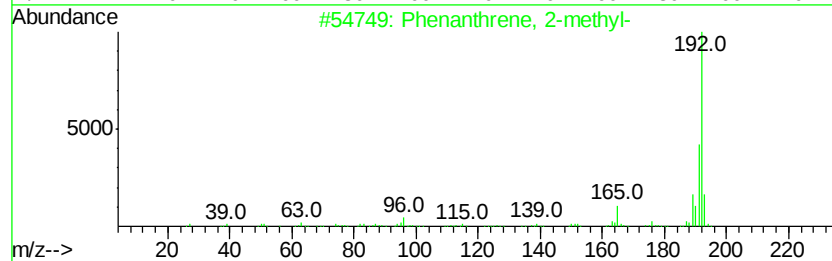
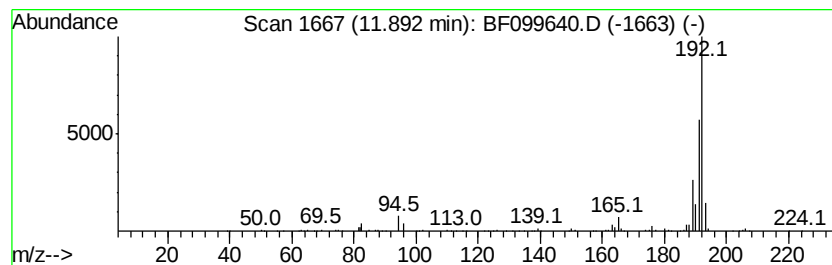
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 12 Phenanthrene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.89	40.97 ng	1096370	Phenanthrene-d10	11.35	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	93



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101817\
Data File : BF099640.D
Acq On : 19 Oct 2017 1:51
Operator : SJ/JU
Sample : I5935-04 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

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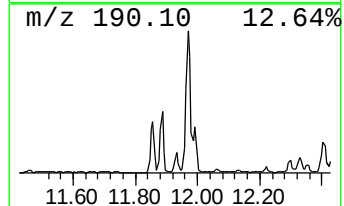
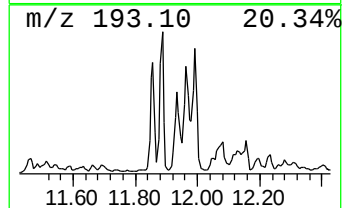
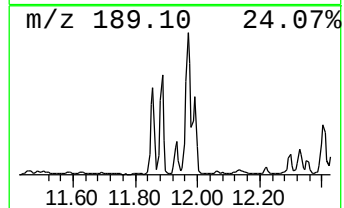
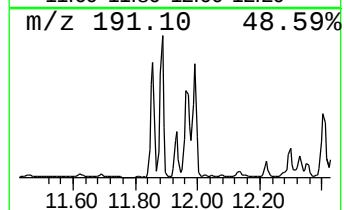
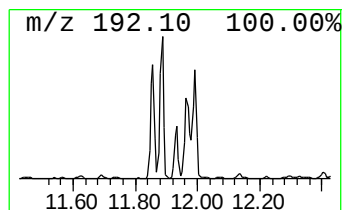
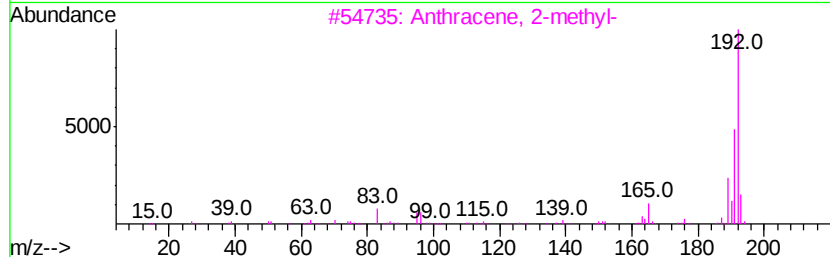
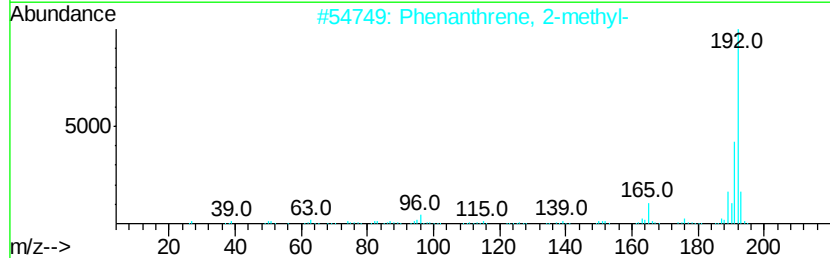
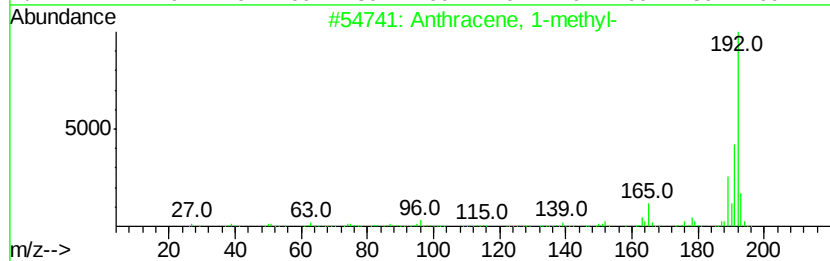
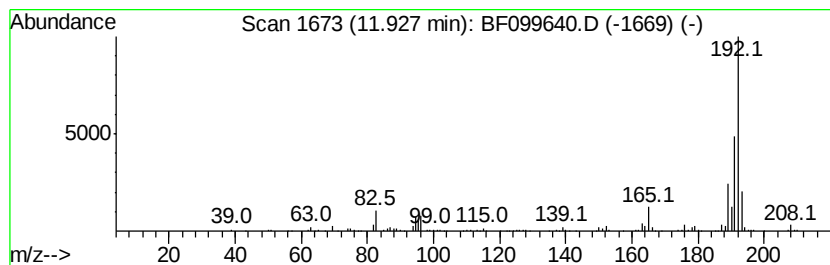
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 13 Anthracene, 1-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.93	17.64 ng	472171	Phenanthrene-d10	11.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
2		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3		Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4		Anthracene, 9-methyl-	192	C15H12	000779-02-2	94
5		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101817\
Data File : BF099640.D
Acq On : 19 Oct 2017 1:51
Operator : SJ/JU
Sample : I5935-04 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CL-02-101617-B

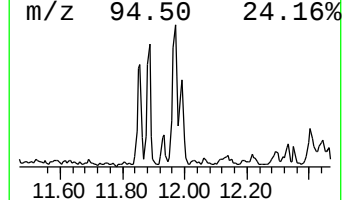
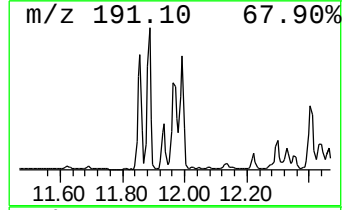
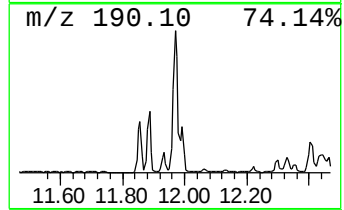
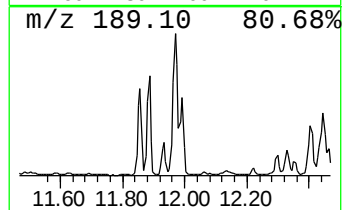
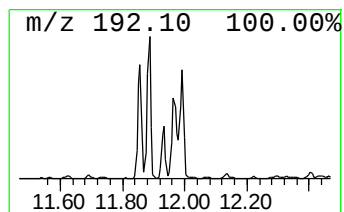
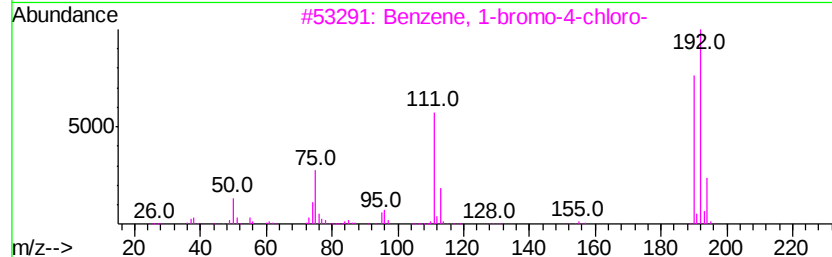
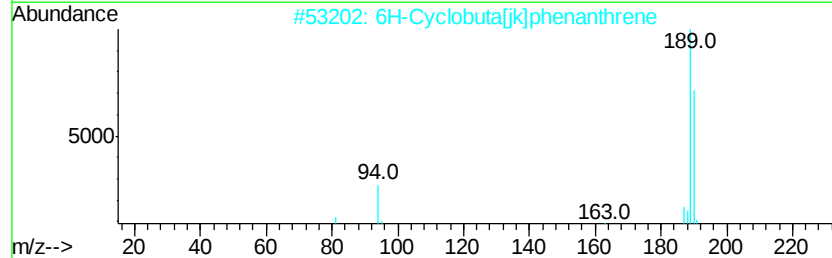
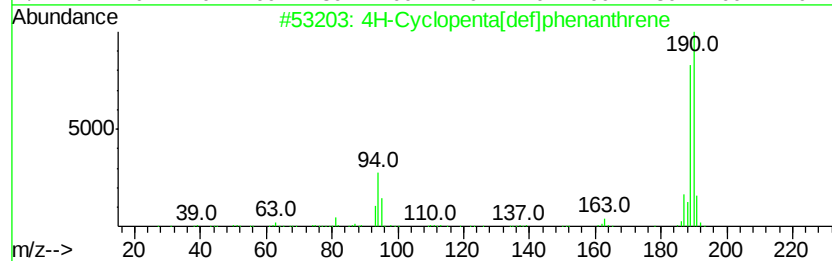
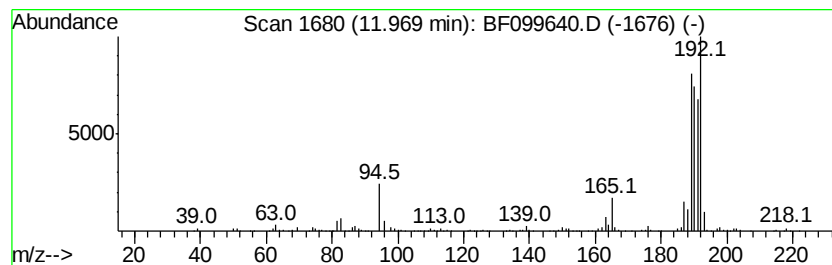
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 14 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	46.57 ng	1246330	Phenanthrene-d10	11.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
2		6H-Cyclobuta[ik]phenanthrene	190	C15H10	083469-43-6	49
3		Benzene, 1-bromo-4-chloro-	190	C6H4BrCl	000106-39-8	43
4		Benzene, 1-bromo-2-chloro-	190	C6H4BrCl	000694-80-4	43
5		Anthracene, 1-methyl-	192	C15H12	000610-48-0	38



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101817\
Data File : BF099640.D
Acq On : 19 Oct 2017 1:51
Operator : SJ/JU
Sample : I5935-04 5X
Misc :
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ClientSampleId :
CL-02-101617-B

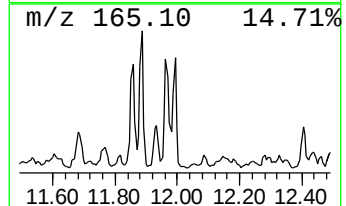
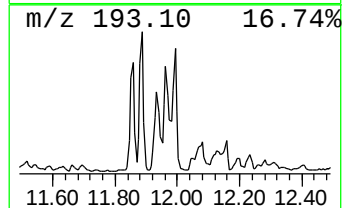
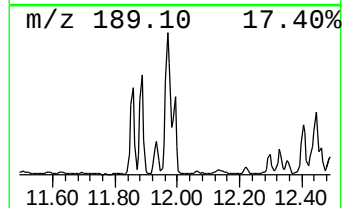
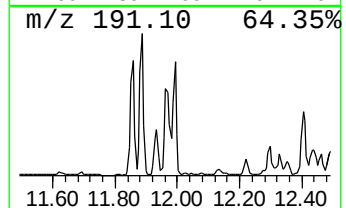
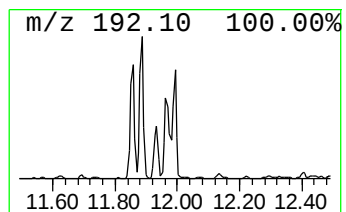
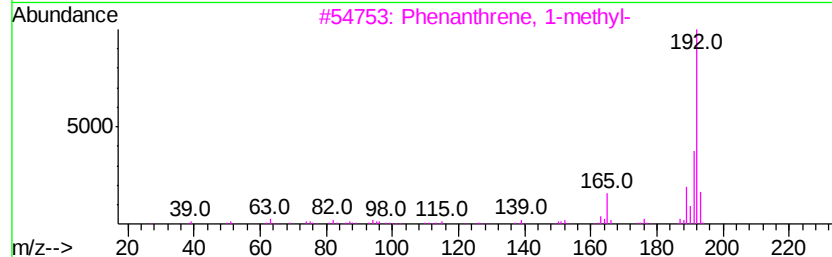
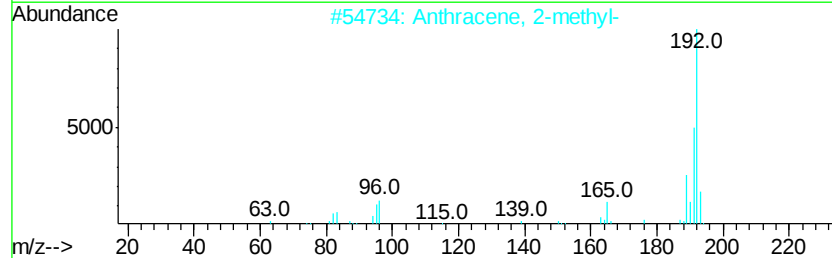
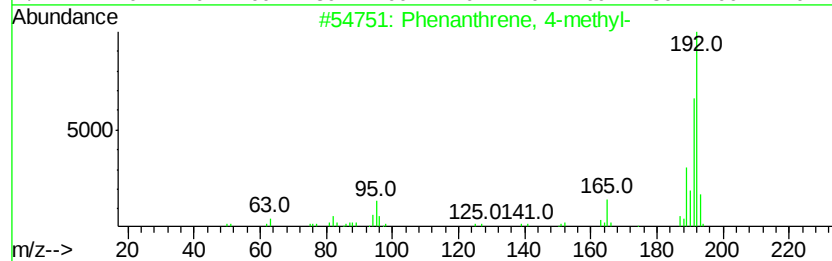
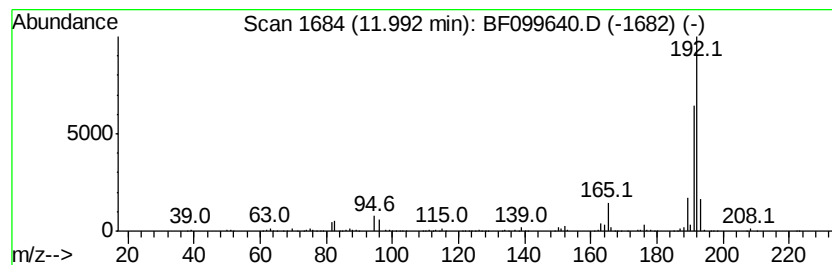
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 15 Phenanthrene, 4-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	26.94 ng	720954	Phenanthrene-d10	11.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	91
2		Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
3		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	89
4		Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	87
5		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	87



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101817\
Data File : BF099640.D
Acq On : 19 Oct 2017 1:51
Operator : SJ/JU
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Misc :
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ClientSampleId :
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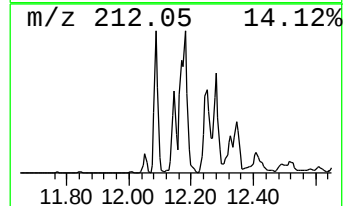
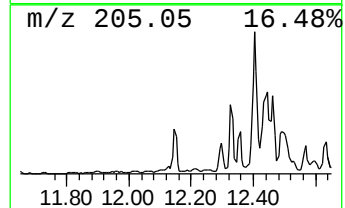
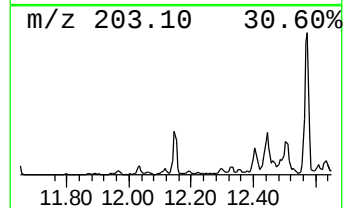
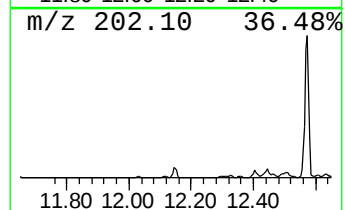
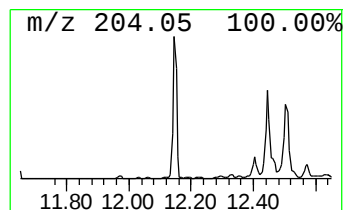
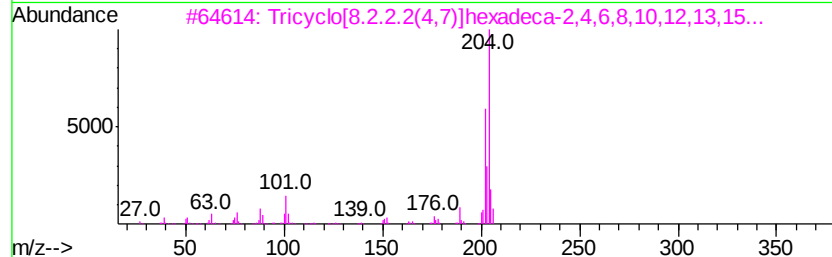
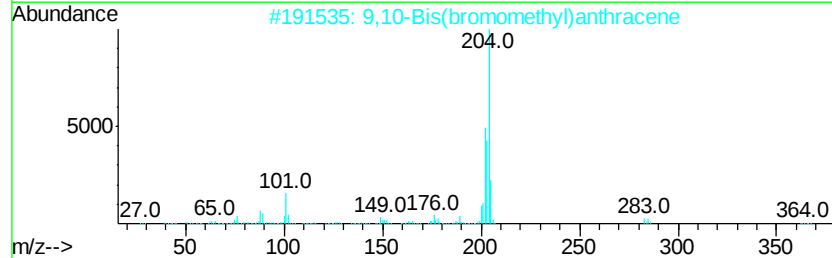
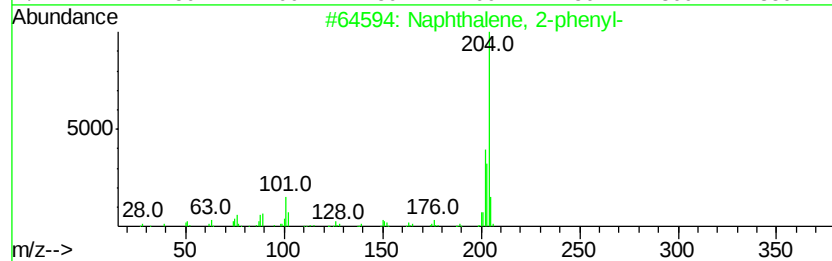
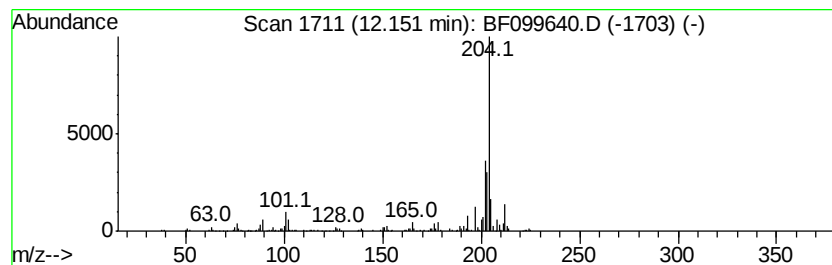
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 16 Naphthalene, 2-phenyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.15	18.26 ng	488689	Phenanthrene-d10	11.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	83
2		9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	68
3		Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	64
4		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	55
5		6-Cyanophenanthridine	204	C14H8N2	002176-28-5	50



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101817\
Data File : BF099640.D
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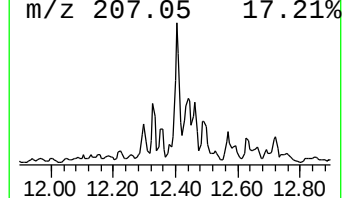
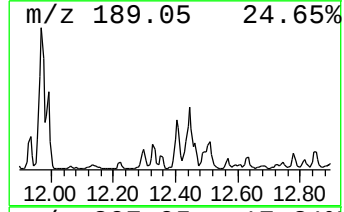
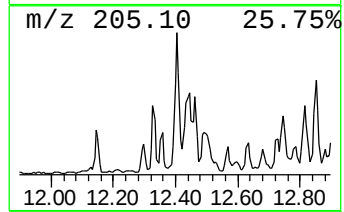
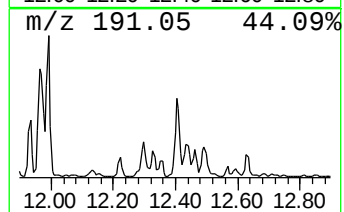
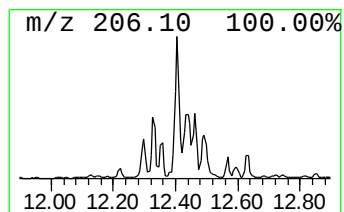
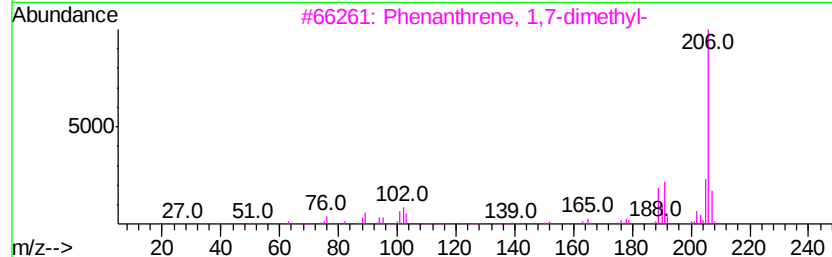
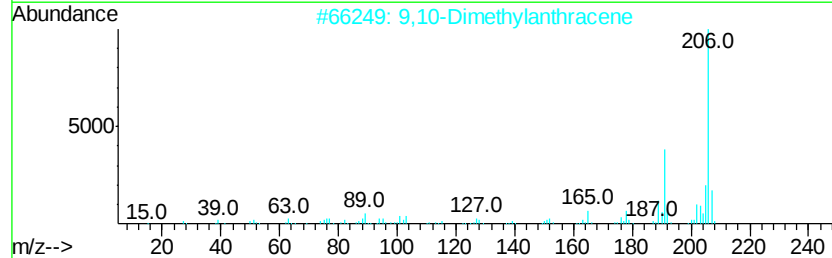
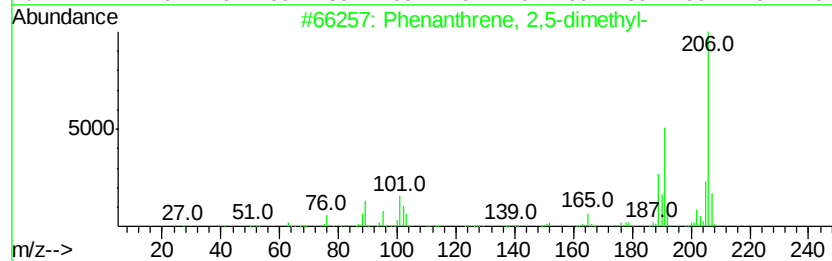
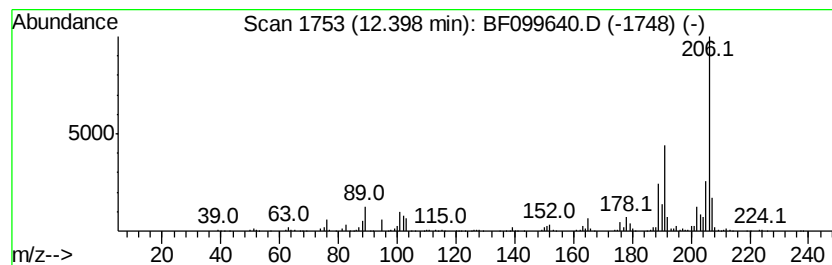
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 17 Phenanthrene, 2,5-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	37.53 ng	1004270	Phenanthrene-d10	11.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	98
2		9,10-Dimethylantracene	206	C16H14	000781-43-1	96
3		Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
4		Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	93
5		di-p-Tolylacetylene	206	C16H14	002789-88-0	92



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101817\
Data File : BF099640.D
Acq On : 19 Oct 2017 1:51
Operator : SJ/JU
Sample : I5935-04 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
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ClientSampleId :
CL-02-101617-B

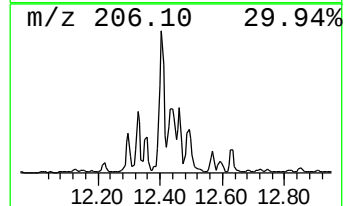
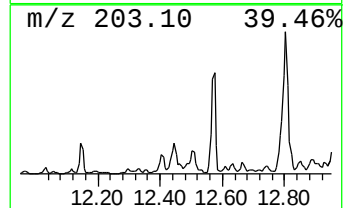
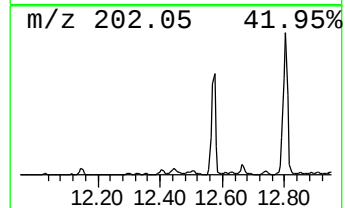
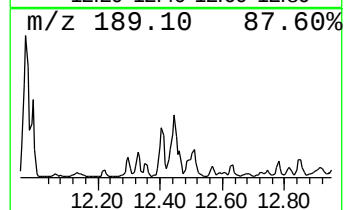
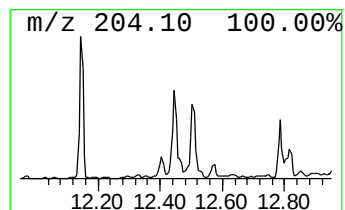
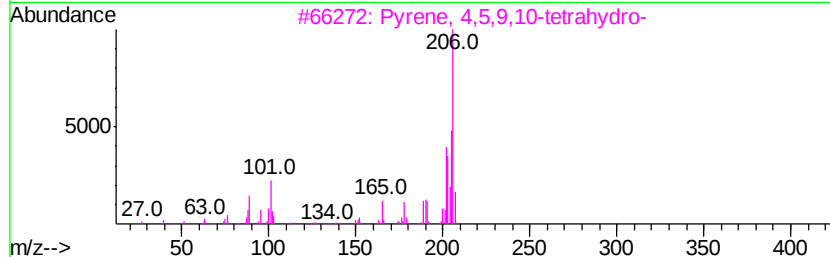
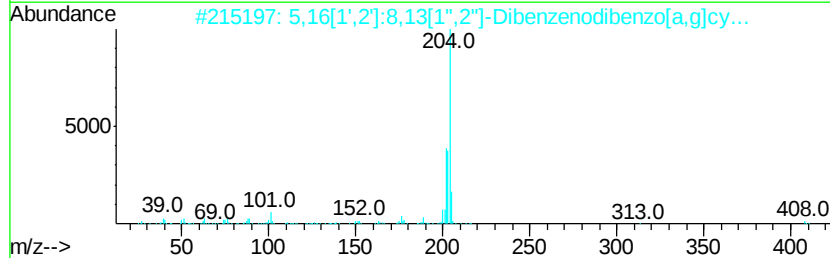
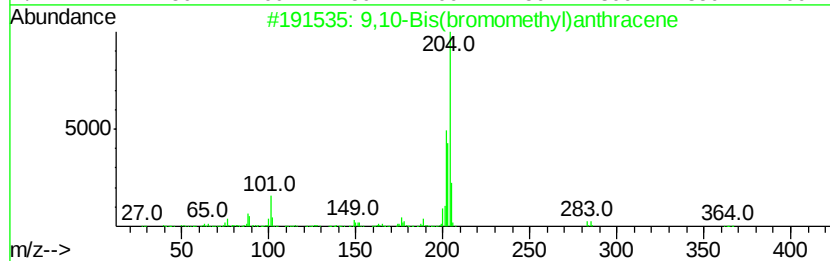
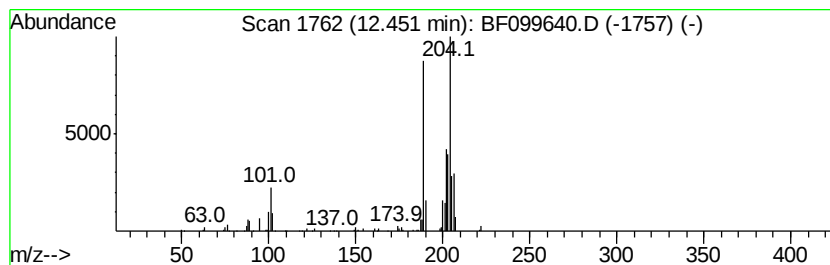
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 18 unknown12.45 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.45	28.08 ng	751431	Phenanthrene-d10	11.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	38
2		5,16[1',2'] :8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	38
3		Pvrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	38
4		9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	38
5		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	35



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101817\
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ClientSampleId :
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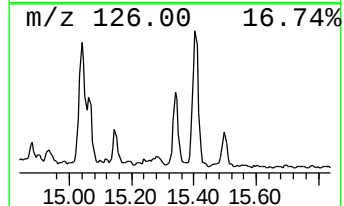
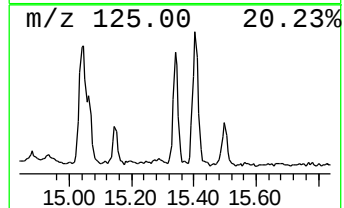
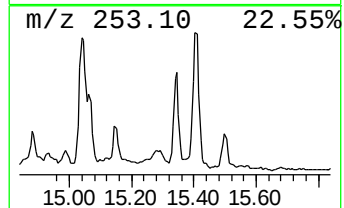
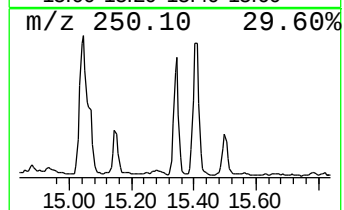
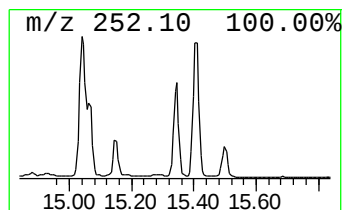
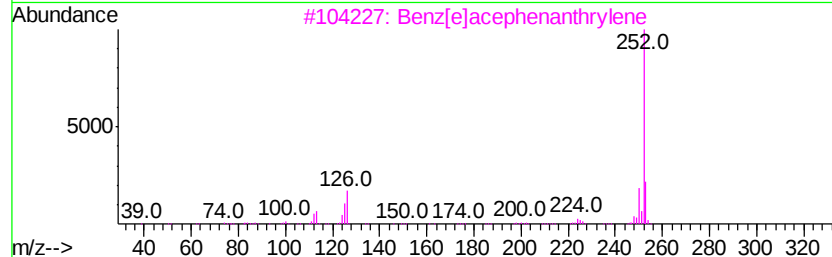
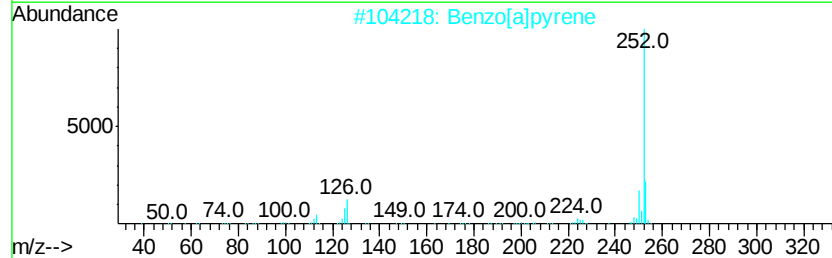
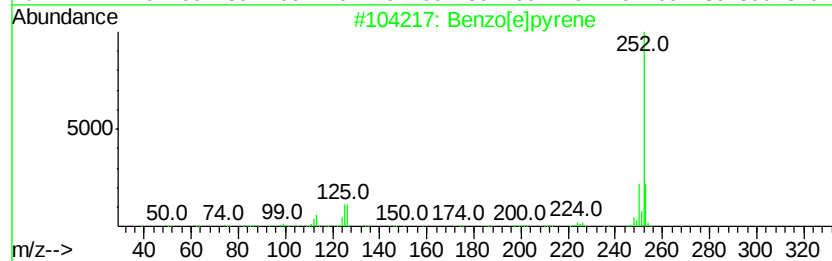
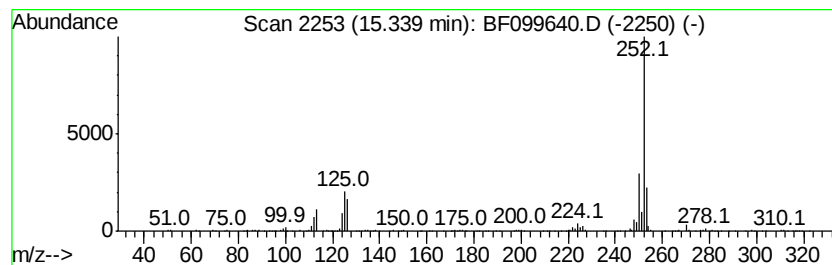
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 20 Benzo[e]pyrene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.34	16.35 ng	331085	Perylene-d12	15.47

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2		Benzo[a]pyrene	252	C20H12	000050-32-8	97
3		Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4		Perylene	252	C20H12	000198-55-0	93
5		Benzo[k]fluoranthene	252	C20H12	000207-08-9	90



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101817\
 Data File : BF099640.D
 Acq On : 19 Oct 2017 1:51
 Operator : SJ/JU
 Sample : I5935-04 5X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
 TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Naphthalene, 2-me...	8.92	20.8	ng	680588	2	8.11	654748	20.0
Naphthalene, 2,6-...	9.45	27.4	ng	758841	3	9.86	553828	20.0
Naphthalene, 2,3-...	9.52	32.0	ng	885171	3	9.86	553828	20.0
Naphthalene, 2,3,...	10.06	15.7	ng	434528	3	9.86	553828	20.0
9H-Fluorene, 1-me...	10.96	24.0	ng	642094	4	11.35	535205	20.0
9H-Fluorene, 2-me...	10.99	14.7	ng	393971	4	11.35	535205	20.0
Dibenzothiophene	11.25	13.3	ng	355787	4	11.35	535205	20.0
Anthracene, 2-met...	11.86	36.8	ng	983487	4	11.35	535205	20.0
Phenanthrene, 2-m...	11.89	41.0	ng	1096370	4	11.35	535205	20.0
Anthracene, 1-met...	11.93	17.6	ng	472171	4	11.35	535205	20.0
4H-Cyclopenta[def...	11.97	46.6	ng	1246330	4	11.35	535205	20.0
Phenanthrene, 4-m...	11.99	26.9	ng	720954	4	11.35	535205	20.0
Naphthalene, 2-ph...	12.15	18.3	ng	488689	4	11.35	535205	20.0
Phenanthrene, 2,5...	12.40	37.5	ng	1004270	4	11.35	535205	20.0
unknown12.45	12.45	28.1	ng	751431	4	11.35	535205	20.0
Benzo[e]pyrene	15.34	16.4	ng	331085	6	15.47	404958	20.0