

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120417\
 Data File : BF101092.D
 Acq On : 4 Dec 2017 12:42
 Operator : SJ/JU
 Sample : I6620-02
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-1(6-8)-20171128

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-BF113017.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	5.075	505	508	518	rBV	59247	84330	5.28%	0.309%
2	5.469	571	575	578	rBV	1221853	1204352	75.36%	4.409%
3	6.481	742	747	761	rBB	1103764	1277576	79.95%	4.677%
4	6.622	766	771	774	rBV	1327371	1292068	80.85%	4.730%
5	6.845	806	809	813	rBV	396120	304305	19.04%	1.114%
6	7.004	832	836	839	rBV	1208764	994894	62.26%	3.642%
7	7.410	900	905	908	rBV	736365	779427	48.77%	2.853%
8	8.128	1023	1027	1030	rBV	499762	402572	25.19%	1.474%
9	9.204	1205	1210	1213	rBV	1739091	1456076	91.11%	5.330%
10	9.539	1264	1267	1270	rVV	35673	38622	2.42%	0.141%
11	9.592	1273	1276	1279	rVV	120597	115004	7.20%	0.421%
12	9.745	1299	1302	1305	rBV	86928	73703	4.61%	0.270%
13	9.804	1310	1312	1315	rVB	52822	39562	2.48%	0.145%
14	9.886	1322	1326	1329	rVB	508995	438959	27.47%	1.607%
15	9.916	1329	1331	1336	rVB	108260	84216	5.27%	0.308%
16	10.039	1347	1352	1354	rBV3	34747	39972	2.50%	0.146%
17	10.086	1355	1360	1364	rVB2	65750	64453	4.03%	0.236%
18	10.286	1390	1394	1395	rBV3	35863	36059	2.26%	0.132%
19	10.304	1395	1397	1400	rVB	66599	47858	2.99%	0.175%
20	10.427	1415	1418	1424	rVB2	86516	91765	5.74%	0.336%
21	10.586	1443	1445	1449	rVB2	40614	38694	2.42%	0.142%
22	10.675	1456	1460	1464	rBV	903943	882805	55.24%	3.232%
23	10.792	1475	1480	1487	rVB5	73218	128382	8.03%	0.470%
24	10.980	1505	1512	1514	rBV3	43456	73716	4.61%	0.270%
25	11.104	1528	1533	1535	rBV3	37791	55614	3.48%	0.204%
26	11.127	1535	1537	1543	rVV3	44753	57584	3.60%	0.211%
27	11.180	1543	1546	1548	rVV	86147	78834	4.93%	0.289%
28	11.227	1550	1554	1557	rVV3	74302	97124	6.08%	0.356%
29	11.269	1557	1561	1566	rVB	76178	87864	5.50%	0.322%
30	11.374	1575	1579	1581	rBV	510547	479674	30.02%	1.756%
31	11.404	1581	1584	1587	rVV	1273259	1101088	68.90%	4.031%
32	11.451	1587	1592	1594	rVV	241837	206541	12.92%	0.756%
33	11.604	1614	1618	1621	rBV2	98704	99771	6.24%	0.365%
34	11.704	1632	1635	1640	rVB3	41871	45509	2.85%	0.167%

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 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.874	1660	1664	1666	rVV	250661	238602	14.93%	0.873%
36	11.904	1666	1669	1672	rVB	346663	307694	19.25%	1.126%
37	11.951	1672	1677	1680	rBV	106366	106961	6.69%	0.392%
38	11.986	1680	1683	1685	rVV2	328797	344326	21.55%	1.260%
39	12.010	1685	1687	1690	rVB	201703	155362	9.72%	0.569%
40	12.169	1711	1714	1716	rBV	160786	124285	7.78%	0.455%
41	12.198	1716	1719	1724	rVB	126598	120549	7.54%	0.441%
42	12.316	1734	1739	1742	rBV	84968	98552	6.17%	0.361%
43	12.351	1742	1745	1747	rVB	50801	37732	2.36%	0.138%
44	12.374	1747	1749	1752	rVB	59125	43984	2.75%	0.161%
45	12.421	1754	1757	1760	rBV	156534	176333	11.03%	0.645%
46	12.463	1760	1764	1766	rBV3	57587	71271	4.46%	0.261%
47	12.516	1769	1773	1777	rVB3	140052	162152	10.15%	0.594%
48	12.598	1781	1787	1790	rBV	1341092	1362701	85.27%	4.988%
49	12.651	1794	1796	1798	rBV2	53553	36319	2.27%	0.133%
50	12.680	1798	1801	1804	rVB2	37723	42382	2.65%	0.155%
51	12.727	1804	1809	1810	rBV3	46574	58174	3.64%	0.213%
52	12.769	1814	1816	1819	rVB3	44560	35179	2.20%	0.129%
53	12.827	1819	1826	1830	rBV	1369835	1598065	100.00%	5.850%
54	12.868	1830	1833	1837	rVB2	91488	115209	7.21%	0.422%
55	12.957	1837	1848	1851	rBV	1224828	1309394	81.94%	4.793%
56	13.033	1856	1861	1865	rBV3	143428	238737	14.94%	0.874%
57	13.121	1873	1876	1878	rBV3	117410	150962	9.45%	0.553%
58	13.145	1878	1880	1883	rVB	210897	190209	11.90%	0.696%
59	13.210	1888	1891	1894	rBV	116321	96045	6.01%	0.352%
60	13.251	1894	1898	1901	rVV2	190379	211691	13.25%	0.775%
61	13.274	1901	1902	1905	rVV2	45742	33932	2.12%	0.124%
62	13.345	1909	1914	1916	rVV	139577	128353	8.03%	0.470%
63	13.374	1916	1919	1922	rVB	156595	132017	8.26%	0.483%
64	13.521	1941	1944	1945	rBV3	32457	33824	2.12%	0.124%
65	13.568	1950	1952	1954	rVV2	53759	50223	3.14%	0.184%
66	13.657	1964	1967	1971	rVV	176877	157896	9.88%	0.578%
67	13.768	1981	1986	1988	rBV2	148432	202854	12.69%	0.743%
68	13.792	1988	1990	1992	rVV	153735	129335	8.09%	0.473%
69	13.821	1992	1995	1996	rVV	96397	100363	6.28%	0.367%
70	13.839	1996	1998	2001	rVV3	149142	180539	11.30%	0.661%
71	13.863	2001	2002	2006	rVB	137674	117855	7.37%	0.431%

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 Sampling : 1 Min Area: 3 % of largest Peak
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72	14.015	2020	2028	2031	rBV2	770316	1192554	74.62%	4.366%
73	14.045	2031	2033	2040	rVB	614397	626946	39.23%	2.295%
74	14.121	2044	2046	2049	rBV	75840	65716	4.11%	0.241%
75	14.168	2051	2054	2055	rBV2	36690	35954	2.25%	0.132%
76	14.245	2063	2067	2070	rBV3	60168	73649	4.61%	0.270%
77	14.274	2070	2072	2075	rVB3	38616	34394	2.15%	0.126%
78	14.333	2079	2082	2085	rBV3	36912	38298	2.40%	0.140%
79	14.363	2085	2087	2090	rVV2	54112	64992	4.07%	0.238%
80	14.404	2090	2094	2097	rVV	202978	234245	14.66%	0.857%
81	14.439	2097	2100	2103	rVV	107212	117849	7.37%	0.431%
82	14.480	2103	2107	2109	rVV4	71752	119319	7.47%	0.437%
83	14.527	2113	2115	2117	rVV	104180	99583	6.23%	0.365%
84	14.551	2117	2119	2122	rVV2	87355	79117	4.95%	0.290%
85	14.598	2125	2127	2134	rVB2	61534	57129	3.57%	0.209%
86	14.715	2145	2147	2149	rBV2	39750	37594	2.35%	0.138%
87	14.898	2175	2178	2182	rVB2	53063	64603	4.04%	0.236%
88	15.068	2201	2207	2210	rBV	513862	847501	53.03%	3.102%
89	15.174	2221	2225	2228	rBV	90353	101901	6.38%	0.373%
90	15.368	2254	2258	2265	rVB	345711	423799	26.52%	1.551%
91	15.433	2265	2269	2273	rBV	453324	547137	34.24%	2.003%
92	15.498	2275	2280	2282	rVV	274391	362255	22.67%	1.326%
93	15.527	2282	2285	2291	rVB2	138612	203111	12.71%	0.744%
94	15.851	2337	2340	2347	rVB2	28517	49058	3.07%	0.180%
95	15.974	2358	2361	2365	rBV4	36127	58845	3.68%	0.215%
96	16.057	2371	2375	2378	rBV2	40503	53751	3.36%	0.197%
97	16.974	2525	2531	2540	rVB	176042	353129	22.10%	1.293%
98	17.145	2556	2560	2565	rBV	31179	55614	3.48%	0.204%
99	17.209	2566	2571	2576	rVB3	28454	51687	3.23%	0.189%
100	17.427	2601	2608	2614	rBV	129370	268611	16.81%	0.983%

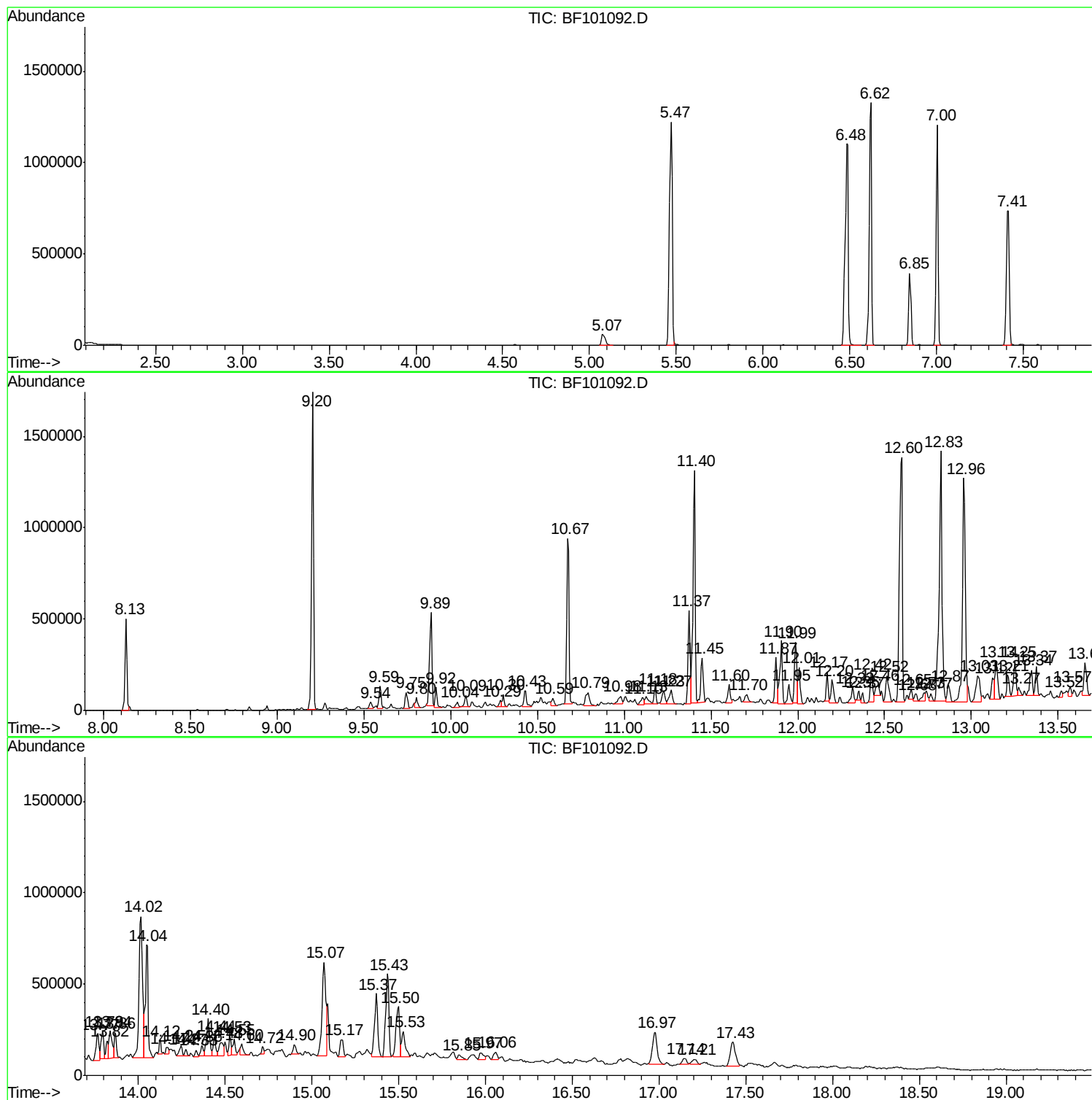
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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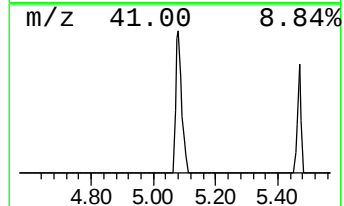
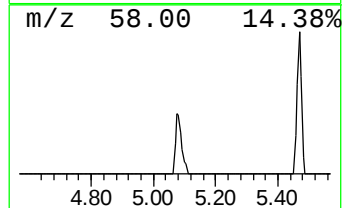
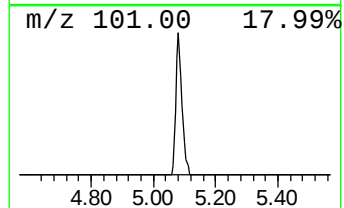
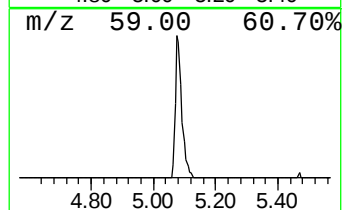
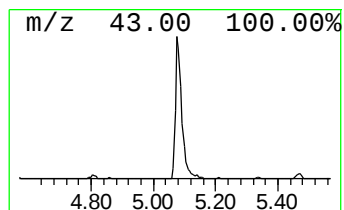
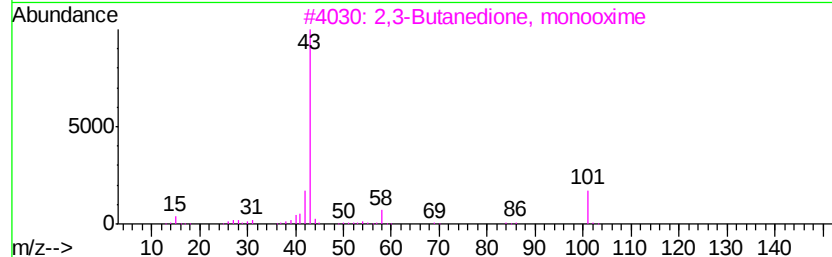
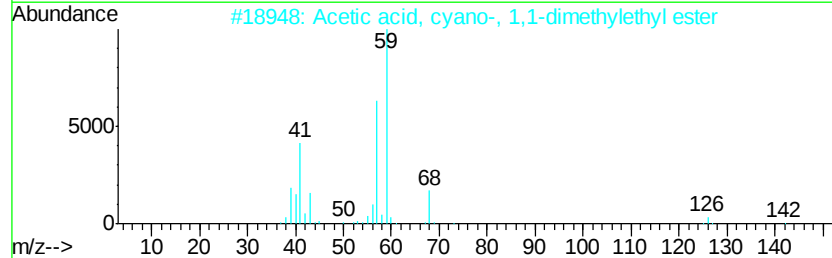
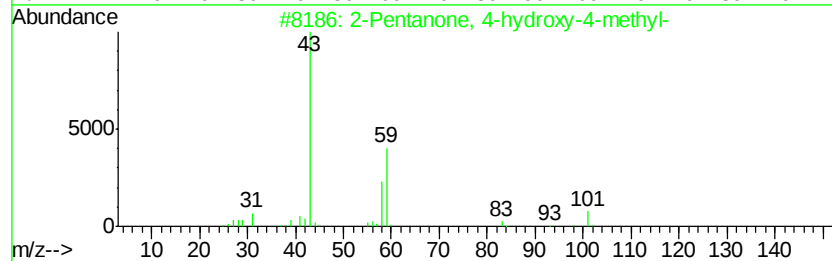
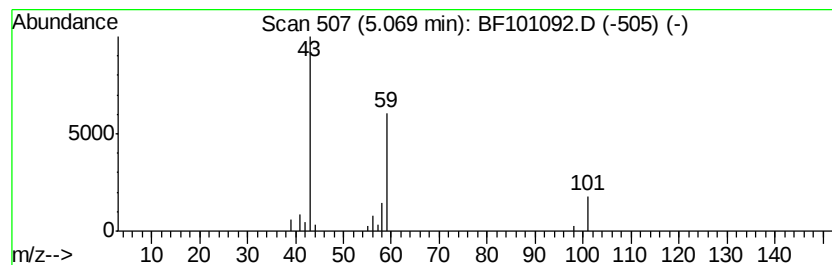
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.07	5.54 ng	84330	1,4-Dichlorobenzene-d4	6.85

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50	
2	Acetic acid, cyano-, 1,1-dimethyl...	141	C7H11NO2	001116-98-9	25	
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9	
4	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	9	
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	9	



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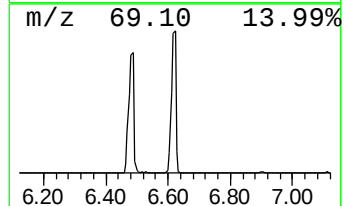
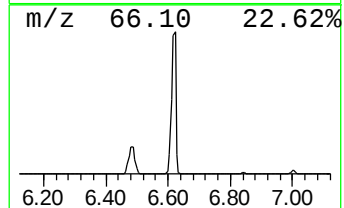
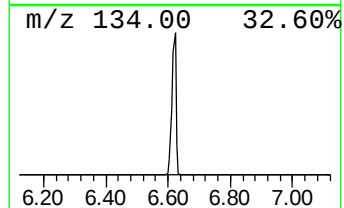
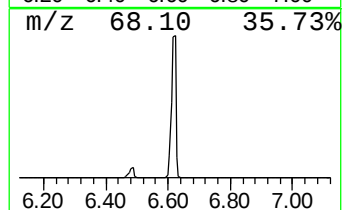
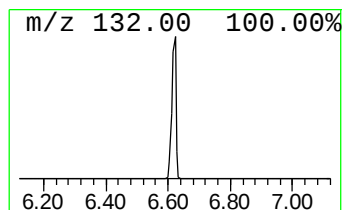
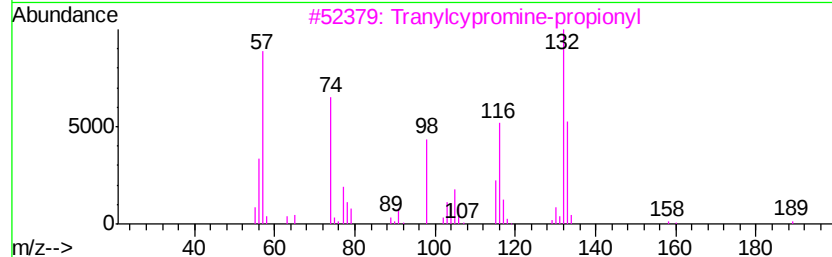
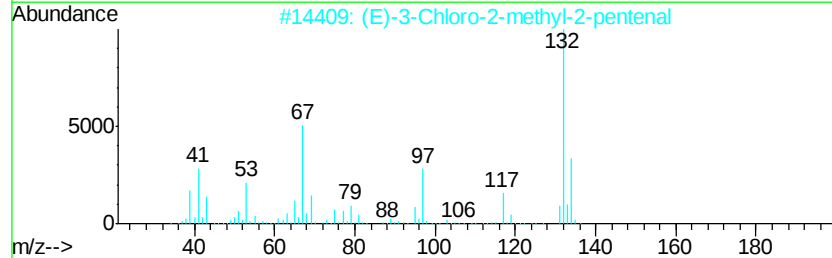
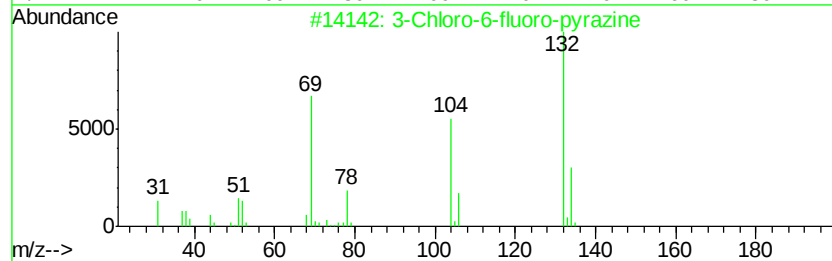
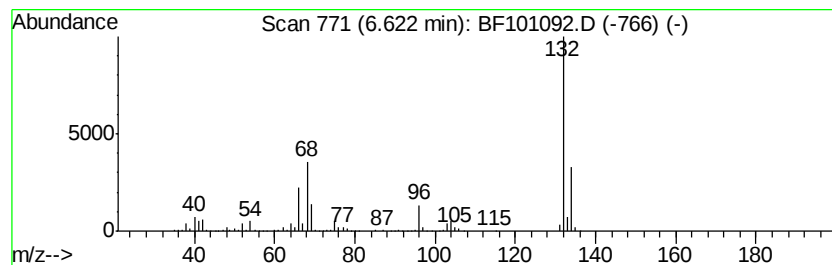
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 unknown6.62 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.62	84.92 ng	1292070	1,4-Dichlorobenzene-d4	6.85

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2		(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
3		Tranvlcypromine-propionyl	189	C12H15NO	1000123-86-3	12
4		1,3,5-Trifluorobenzene	132	C6H3F3	000372-38-3	9
5		5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9



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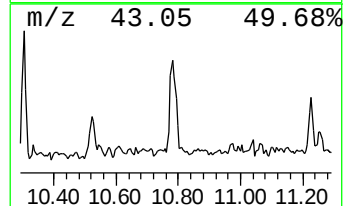
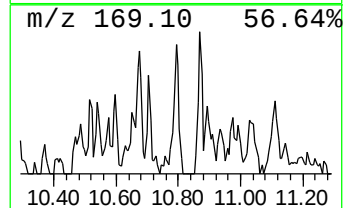
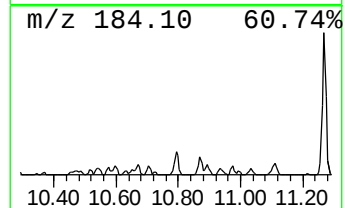
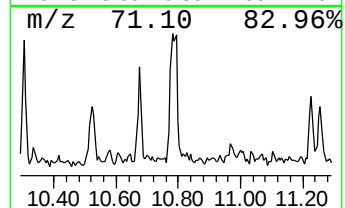
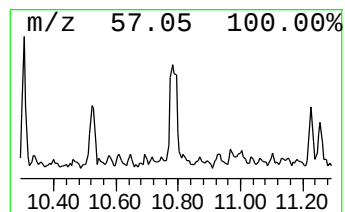
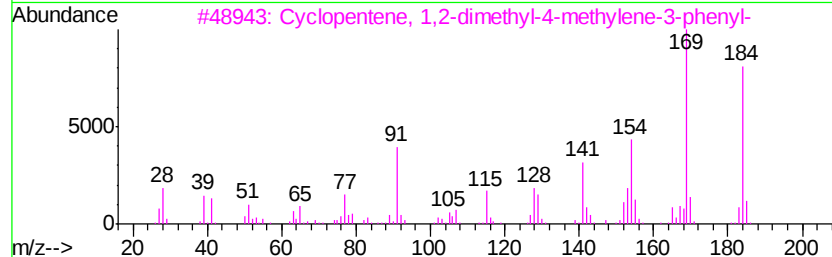
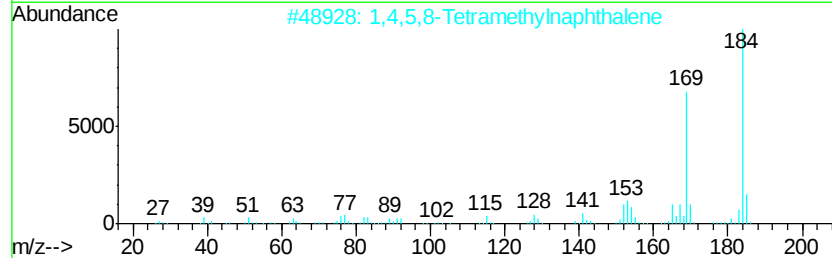
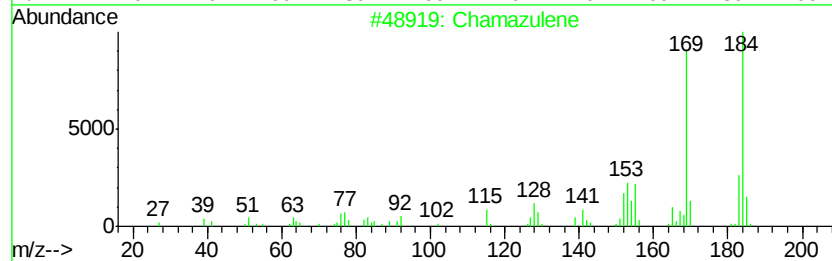
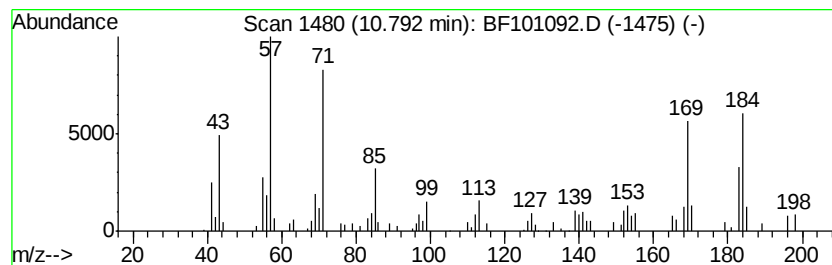
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 unknown10.79 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.79	5.35 ng	128382	Phenanthrene-d10	11.37

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Chamazulene	184	C14H16	000529-05-5	46
2		1,4,5,8-Tetramethylnaphthalene	184	C14H16	002717-39-7	46
3		Cyclopentene, 1,2-dimethyl-4-met...	184	C14H16	1000152-22-4	46
4		Benzene, (4,5,5-trimethyl-1,3-cy...	184	C14H16	033930-85-7	46
5		1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	43



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Data File : BF101092.D
Acq On : 4 Dec 2017 12:42
Operator : SJ/JU
Sample : I6620-02
Misc :
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Instrument :
BNA_F
ClientSampleId :
SB-1(6-8)-20171128

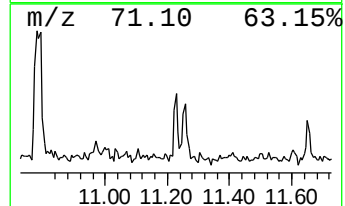
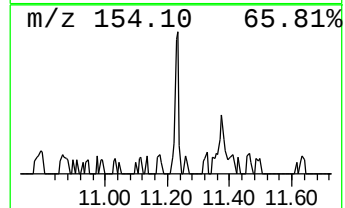
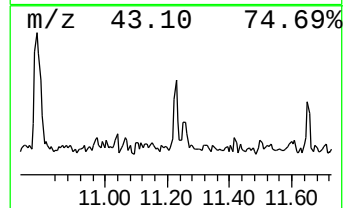
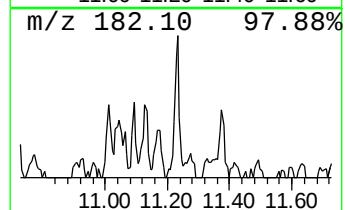
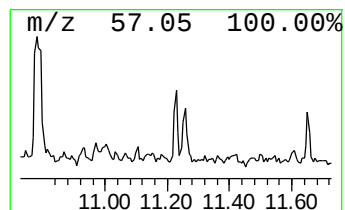
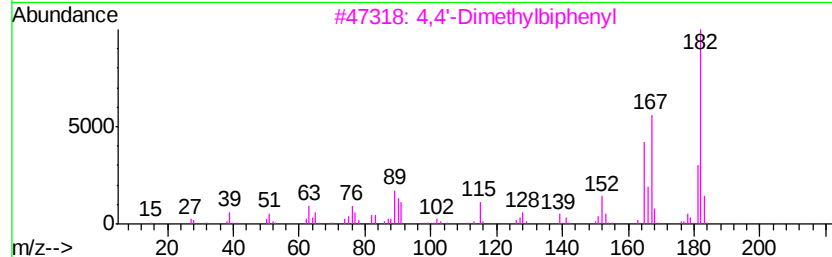
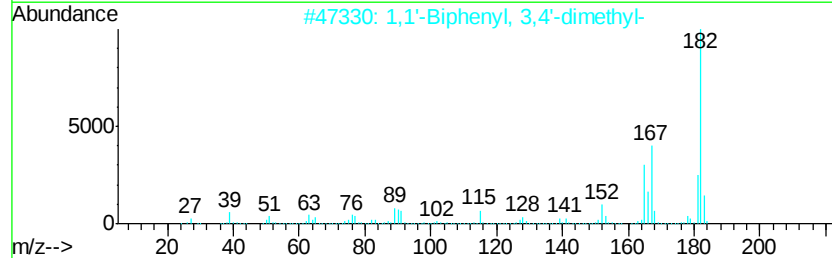
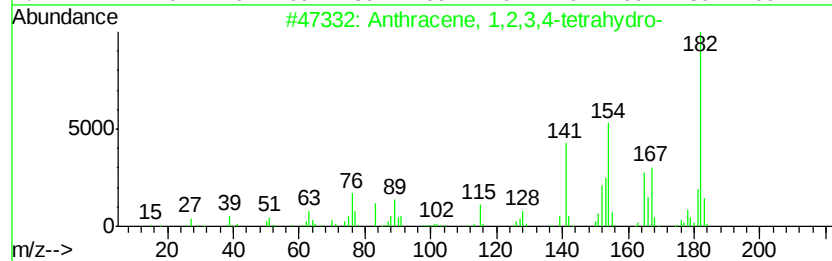
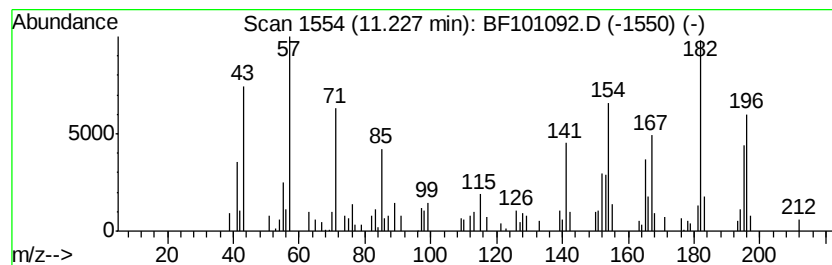
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.23	4.05 ng	97124	Phenanthrene-d10	11.37

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	78
2		1,1'-Biphenyl, 3,4'-dimethyl-	182	C14H14	007383-90-6	42
3		4,4'-Dimethylbiphenyl	182	C14H14	000613-33-2	42
4		3,3'-Dimethylbiphenyl	182	C14H14	000612-75-9	38
5		2-Dimethylamino-6,7-dihydro-4H-o...	182	C7H10N4O2	062626-99-7	30



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120417\
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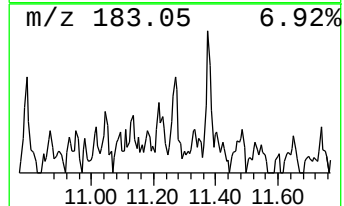
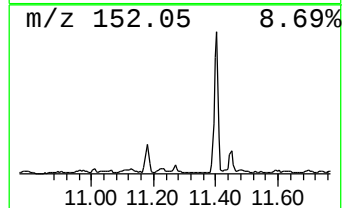
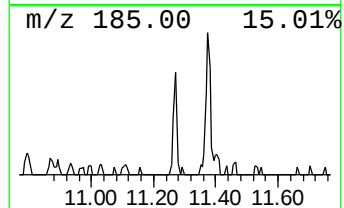
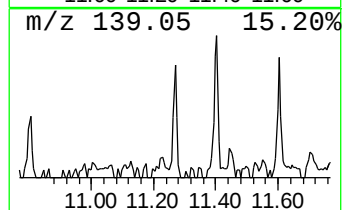
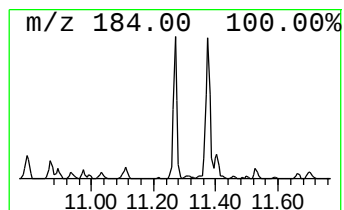
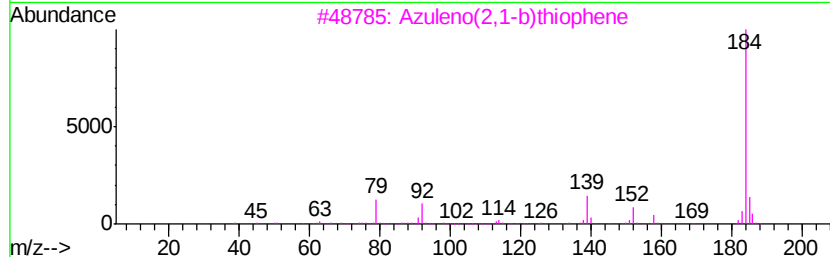
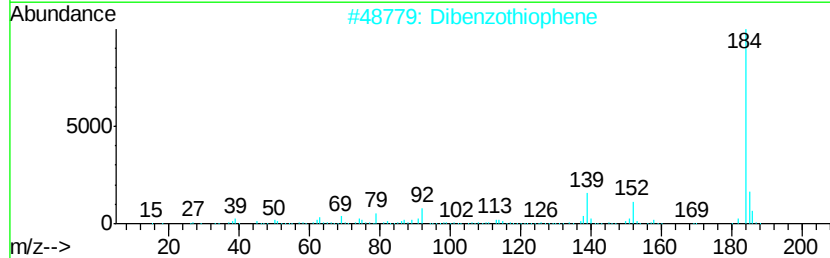
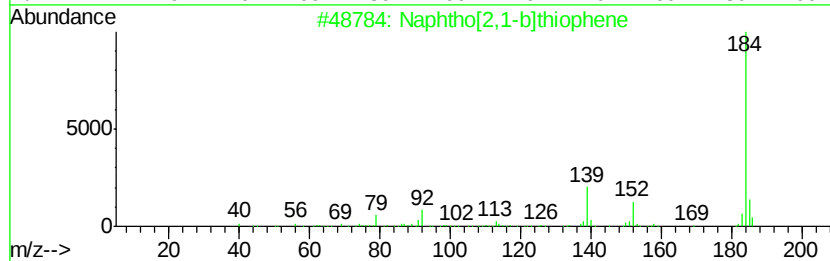
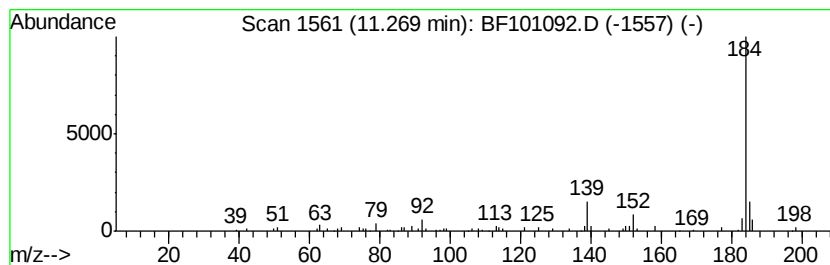
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Naphtho[2,1-b]thiophene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD		R.T.		
11.27	3.66 ng	87864	Phenanthrene-d10		11.37		
Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	94
2			Dibenzothiophene	184	C12H8S	000132-65-0	94
3			Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
4			Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	90
5			Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	90



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120417\
Data File : BF101092.D
Acq On : 4 Dec 2017 12:42
Operator : SJ/JU
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Instrument :
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ClientSampleId :
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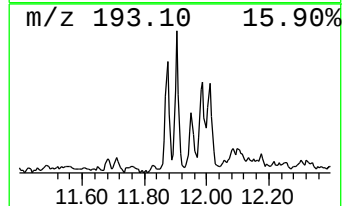
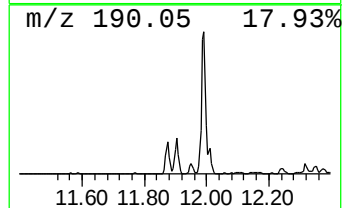
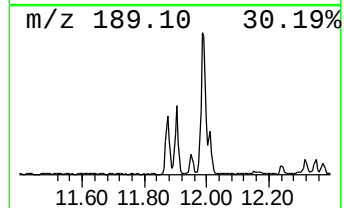
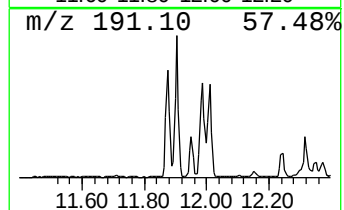
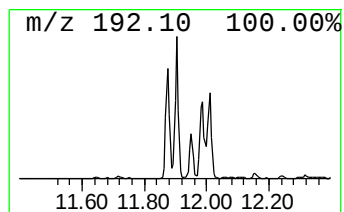
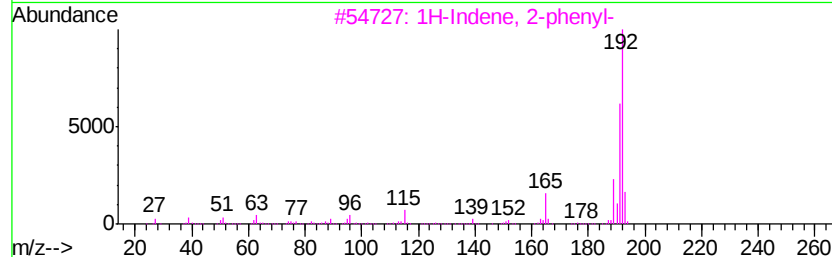
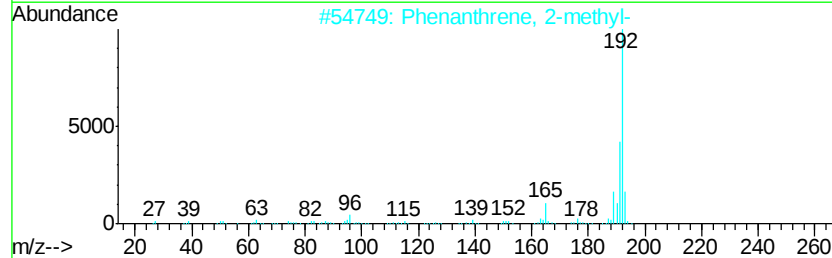
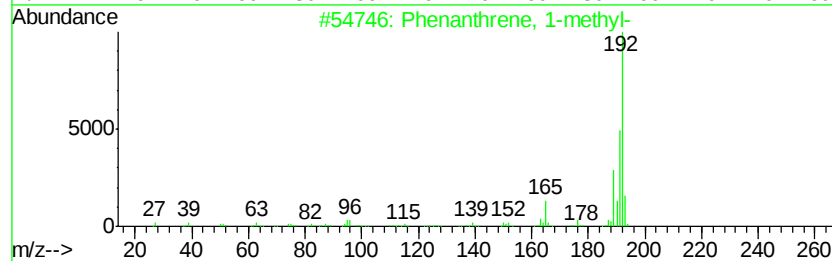
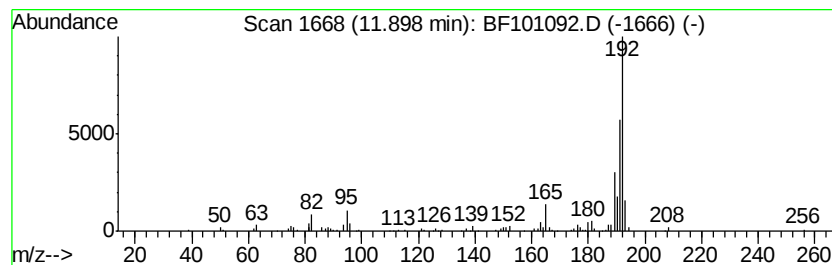
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	12.83 ng	307694	Phenanthrene-d10	11.37

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3		1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95
4		1H-Cyclopropa[1,1]phenanthrene, 1a,...	192	C15H12	000949-41-7	95
5		1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	94



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120417\
Data File : BF101092.D
Acq On : 4 Dec 2017 12:42
Operator : SJ/JU
Sample : I6620-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

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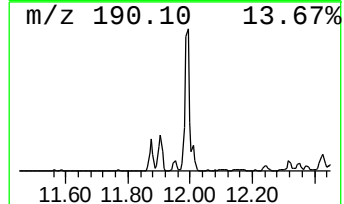
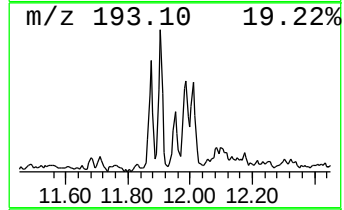
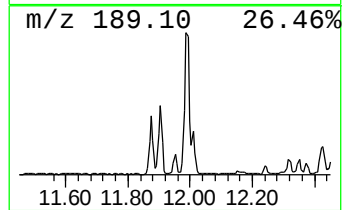
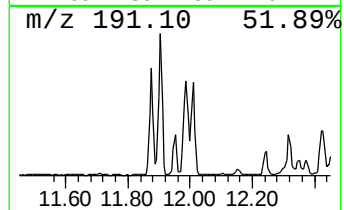
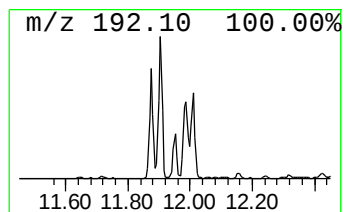
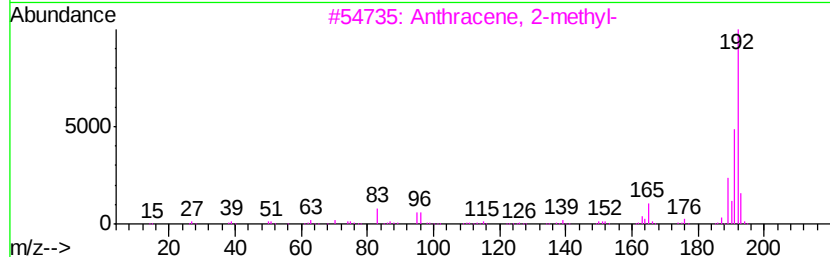
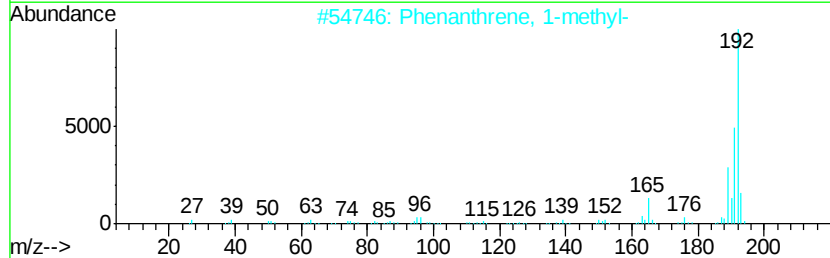
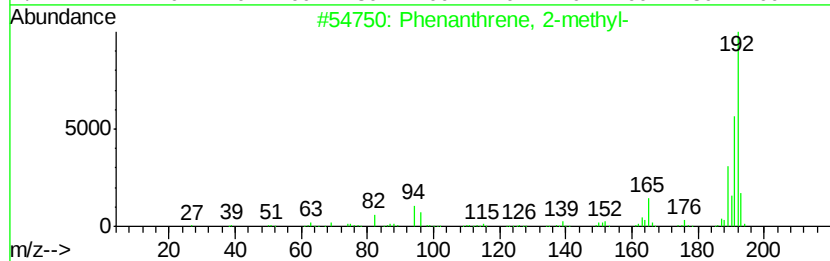
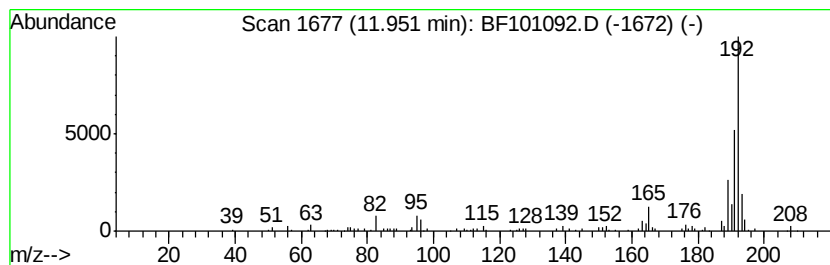
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.95	4.46 ng	106961	Phenanthrene-d10	11.37

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3		Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4		Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
5		1H-Cyclopropa[1]phenanthrene, 1a, ...	192	C15H12	000949-41-7	94



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120417\
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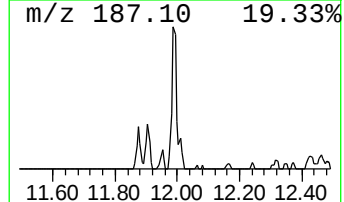
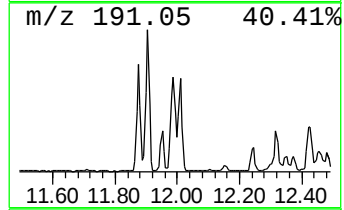
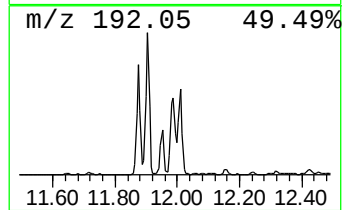
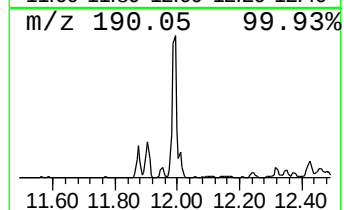
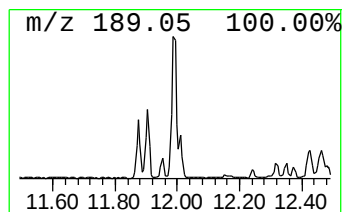
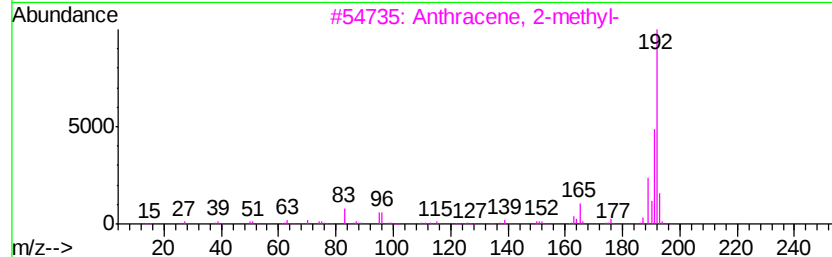
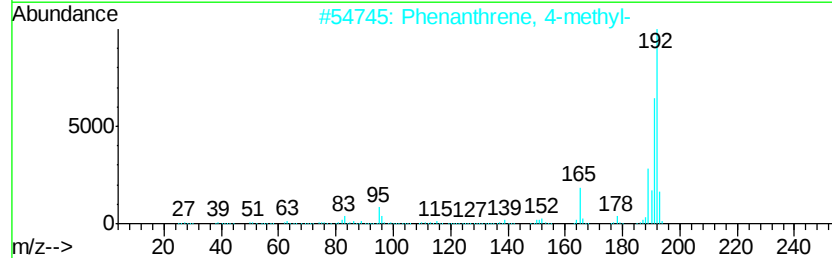
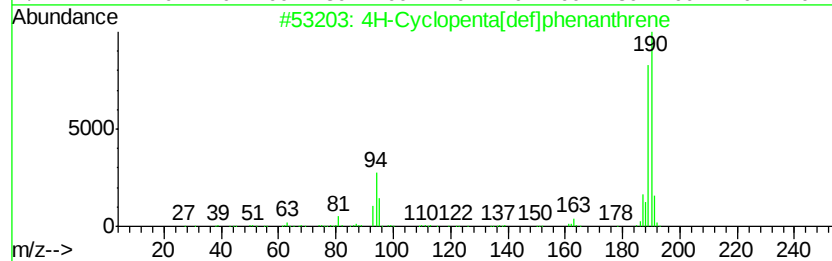
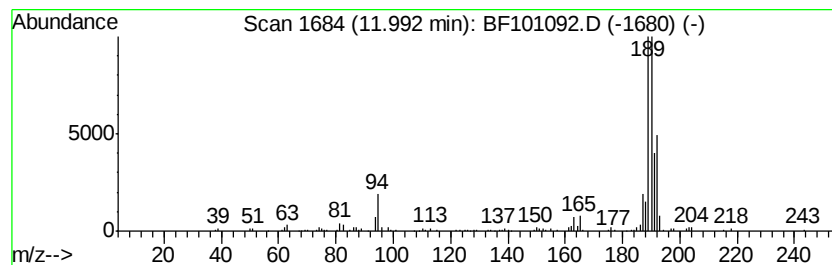
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.99	14.36 ng	344326	Phenanthrene-d10	11.37	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	42
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	42
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	42
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	42



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120417\
Data File : BF101092.D
Acq On : 4 Dec 2017 12:42
Operator : SJ/JU
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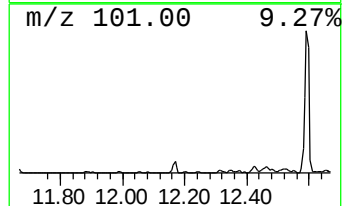
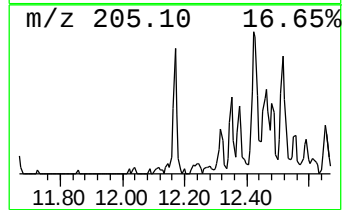
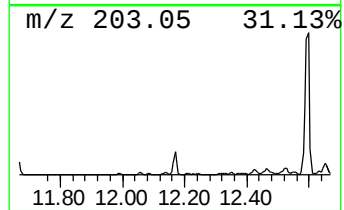
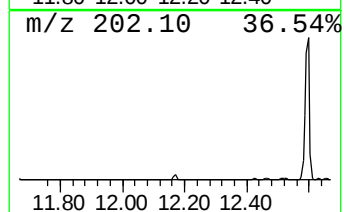
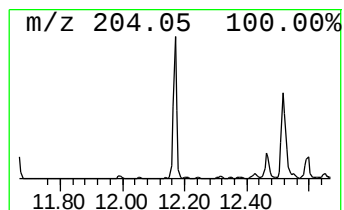
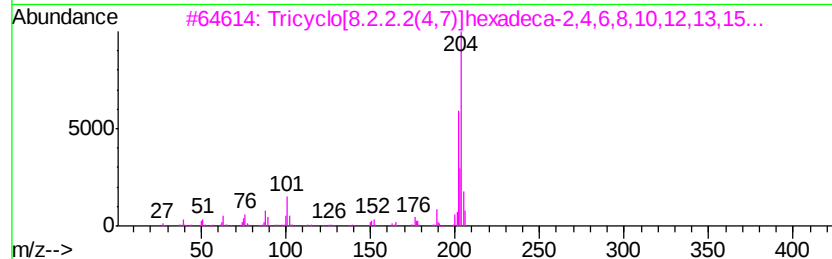
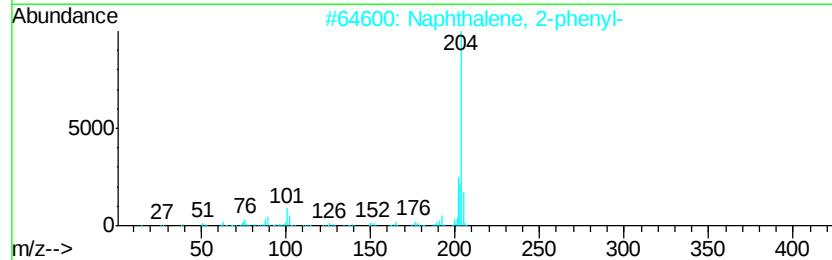
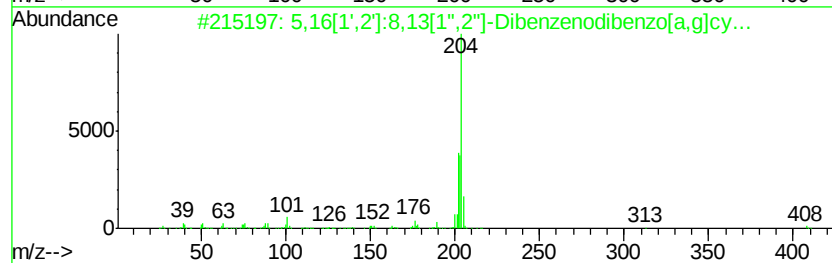
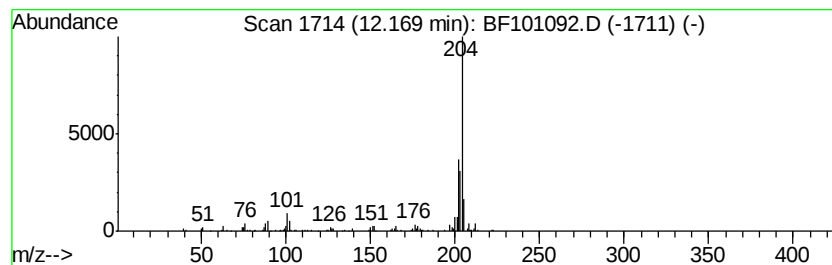
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.17	5.18 ng	124285	Phenanthrene-d10	11.37

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual		
1	5,16	[1',2']	:8,13	[1'',2'']	-Dibenz...	408	C32H24	005672-97-9	87
2	Naphthalene,	2-phenyl-		204	C16H12	000612-94-2	81		
3	Tricyclo	[8.2.2.2(4,7)]	hexadeca-2...	204	C16H12	006572-60-7	74		
4	9,10-Bis(bromomethyl)	anthracene		362	C16H12Br2	034373-96-1	64		
5	5H-Dibenzo[a,d]	cycloheptene,	5-m...	204	C16H12	002975-79-3	64		



Data Path : Z:\HPCHEM1\BNA F\DATA\BF120417\
Data File : BF101092.D
Acq On : 4 Dec 2017 12:42
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Misc :
ALS Vial : 8 Sample Multiplier: 1

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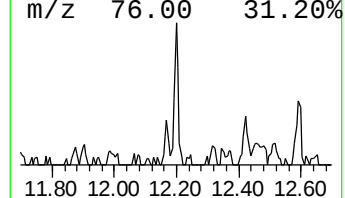
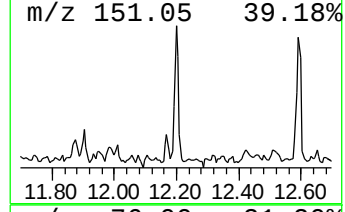
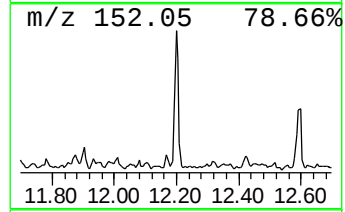
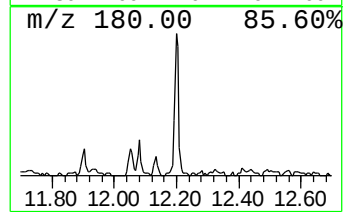
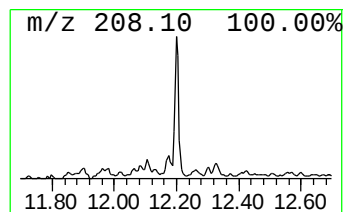
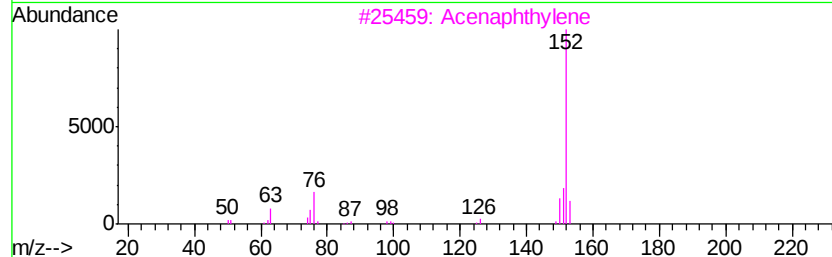
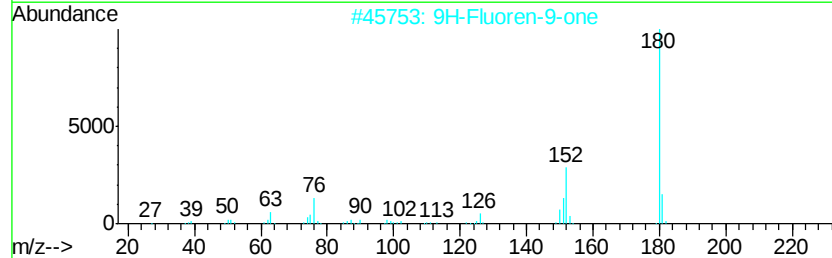
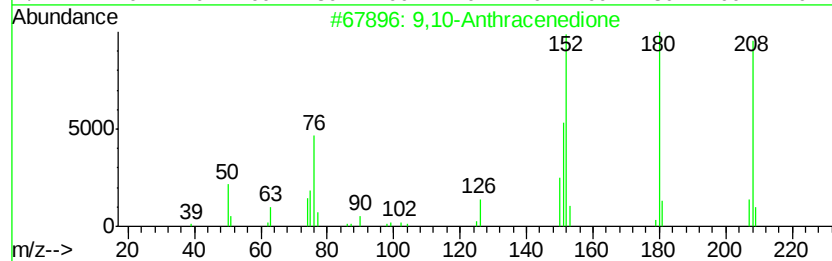
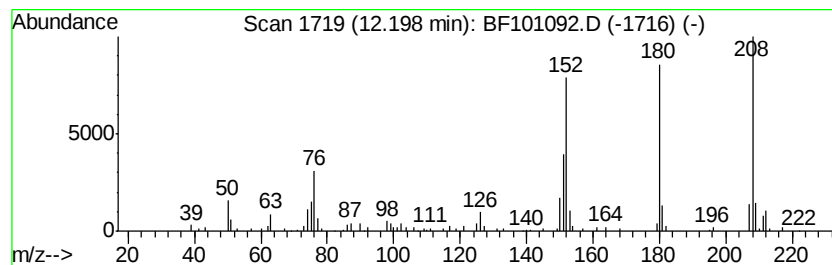
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 9,10-Anthracenedione Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	5.03 ng	120549	Phenanthrene-d10	11.37

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
2			9H-Fluoren-9-one	180	C13H8O	000486-25-9	83
3			Acenaphthylene	152	C12H8	000208-96-8	74
4			Benzo[c]cinnoline	180	C12H8N2	000230-17-1	64
5			1H-Phenalen-1-one	180	C13H8O	000548-39-0	60



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120417\
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Acq On : 4 Dec 2017 12:42
Operator : SJ/JU
Sample : I6620-02
Misc :
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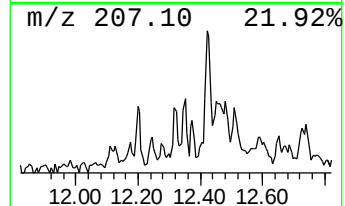
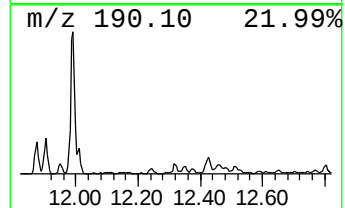
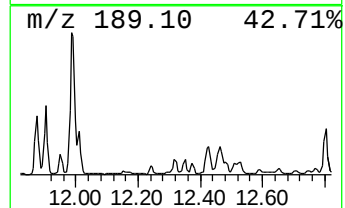
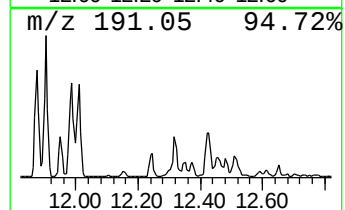
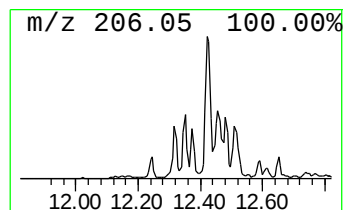
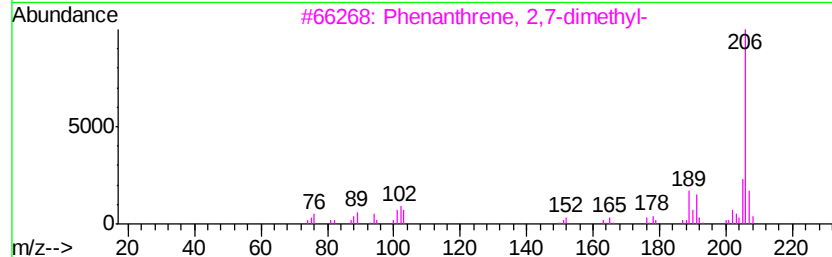
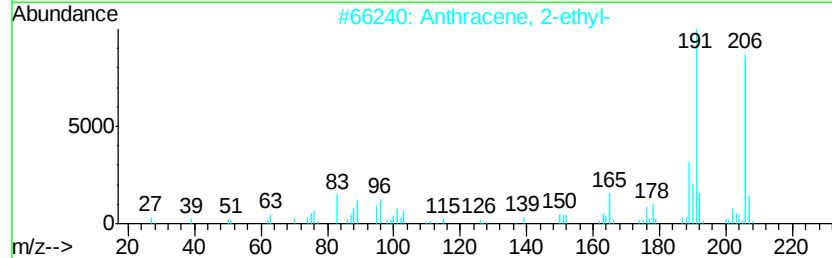
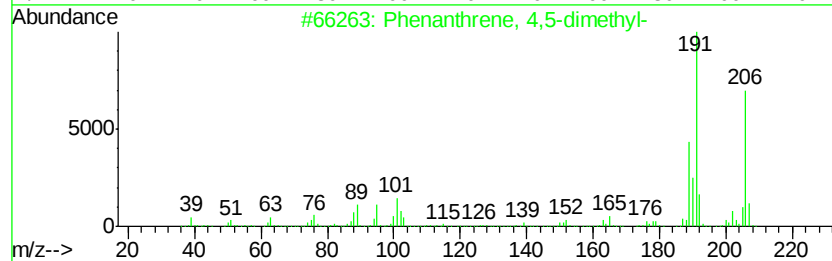
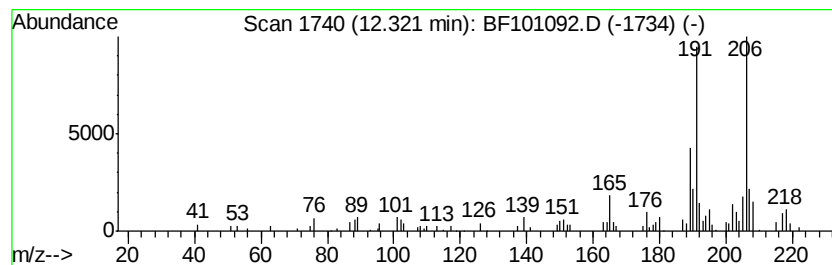
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Phenanthrene, 4,5-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD		R.T.		
12.32	4.11 ng	98552	Phenanthrene-d10		11.37		
Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	95
2			Anthracene, 2-ethyl-	206	C16H14	052251-71-5	91
3			Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	89
4			Phenanthrene, 2-ethyl-	206	C16H14	003674-74-6	81
5			Phenanthrene, 9-ethyl-	206	C16H14	003674-75-7	80



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120417\
Data File : BF101092.D
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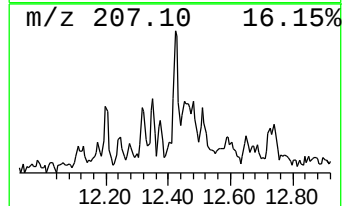
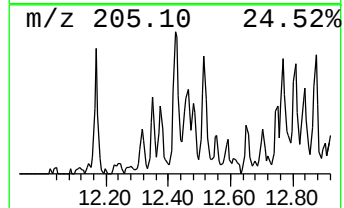
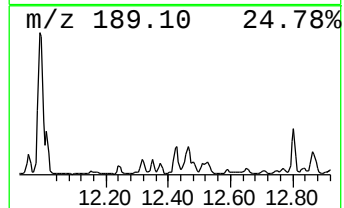
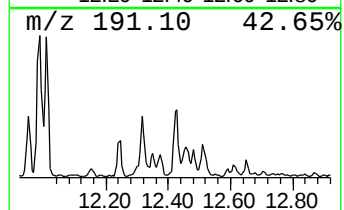
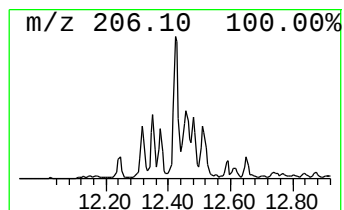
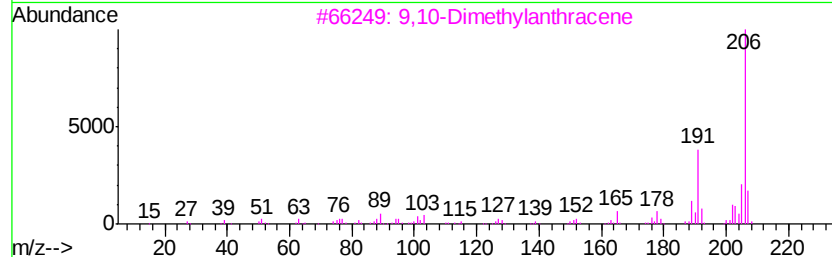
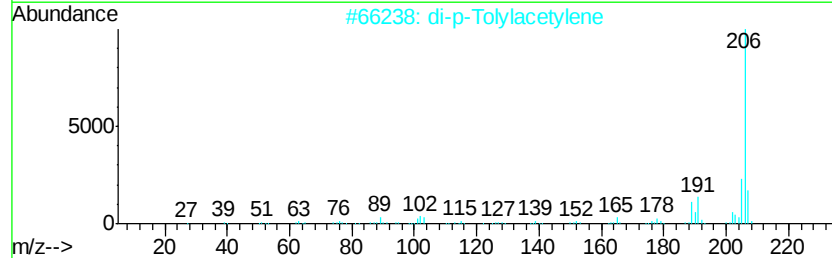
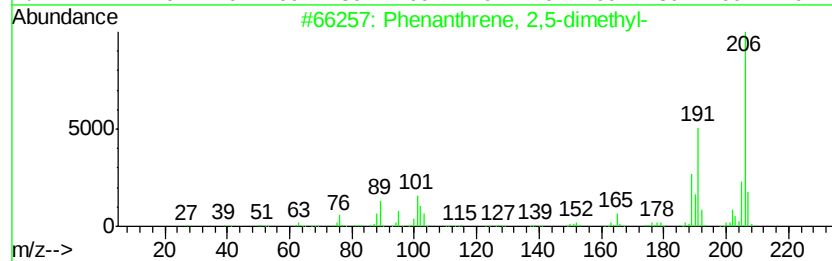
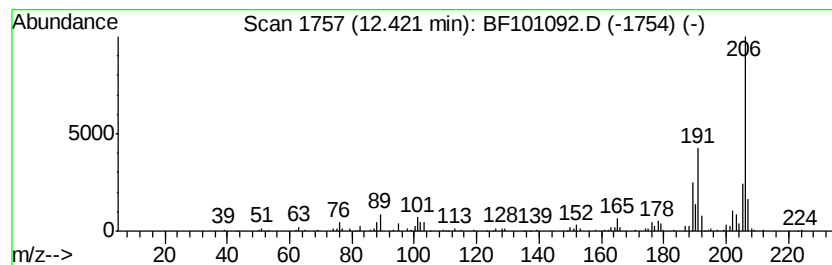
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	7.35 ng	176333	Phenanthrene-d10	11.37

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2			di-p-Tolylacetylene	206	C16H14	002789-88-0	93
3			9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
4			Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
5			Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120417\
Data File : BF101092.D
Acq On : 4 Dec 2017 12:42
Operator : SJ/JU
Sample : I6620-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

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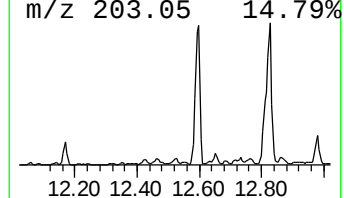
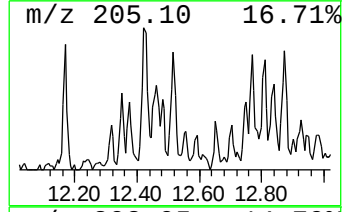
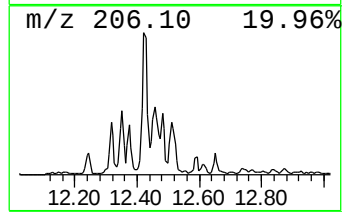
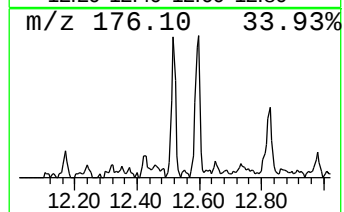
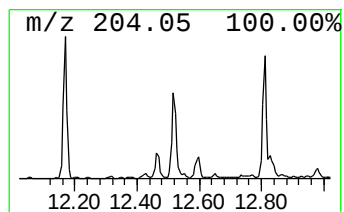
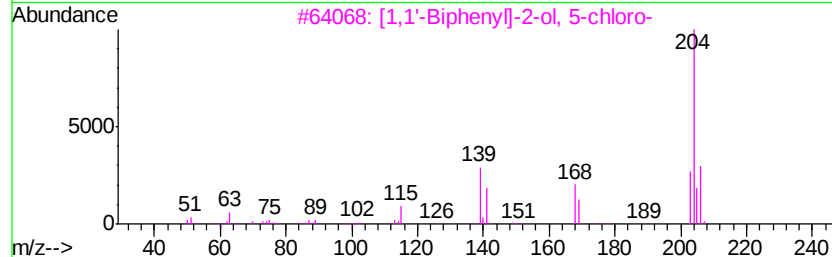
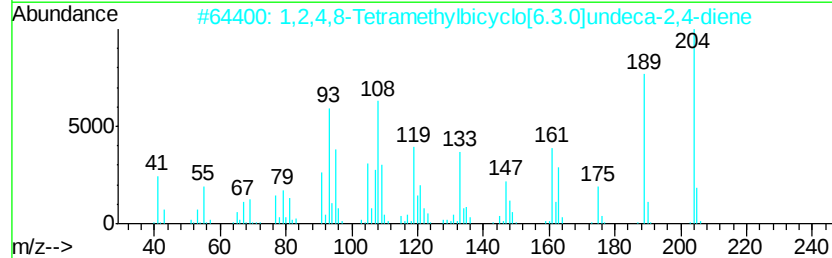
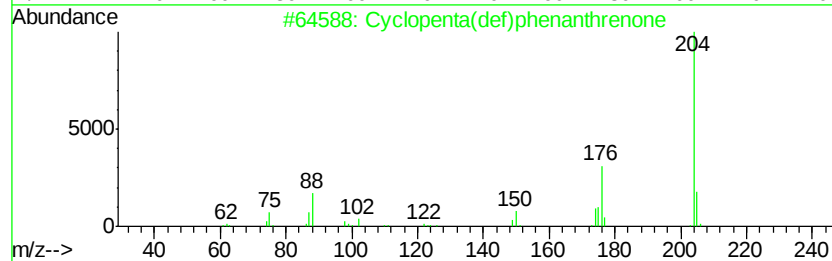
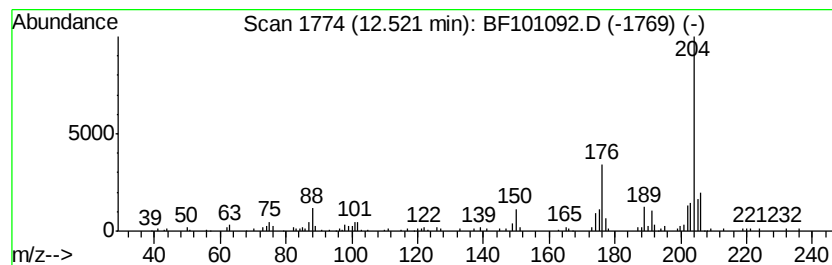
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Cyclopenta(def)phenanthrenone Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.52	6.76 ng	162152	Phenanthrene-d10	11.37

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2		1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-diene	204	C15H24	137235-51-9	49
3		[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	47
4		Pyrimido[5,4-b]benzofurane, 4-chloro-	204	C10H5ClN2O	039876-88-5	46
5		[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	43



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120417\
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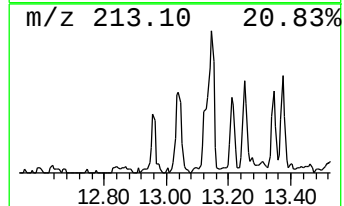
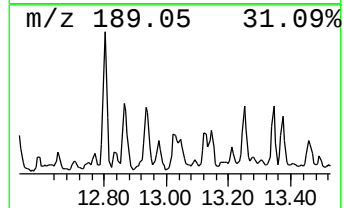
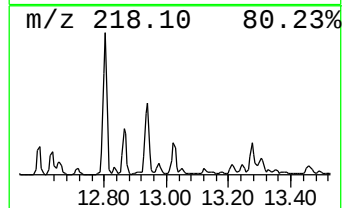
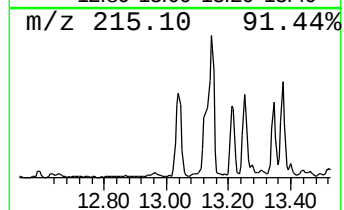
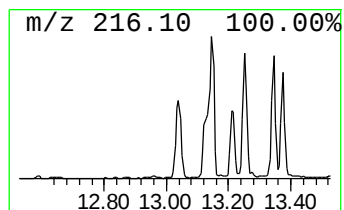
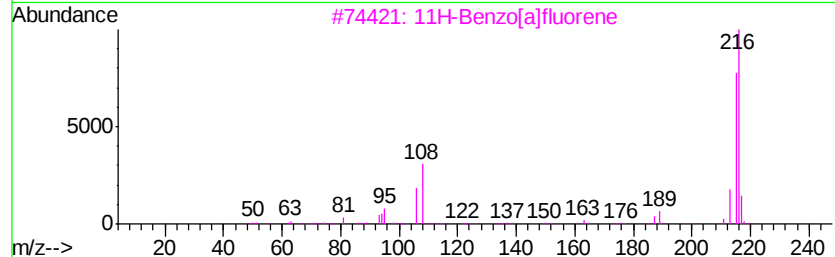
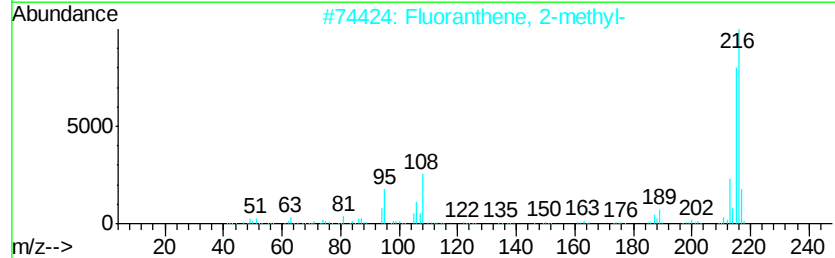
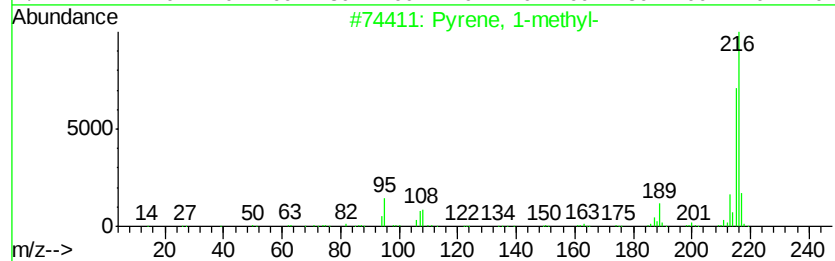
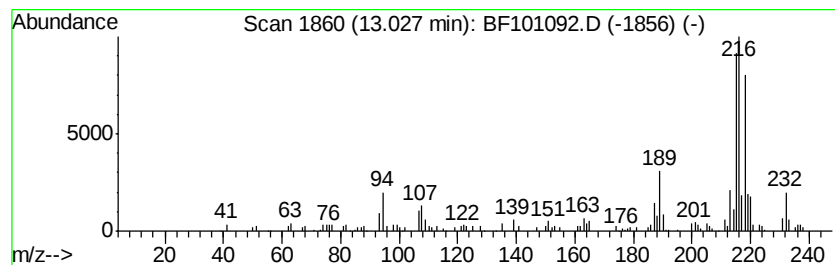
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 17 Pyrene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.03	4.00 ng	238737	Chrysene-d12	14.02	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	86
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	86



Data Path : Z:\HPCHEM1\BNA F\DATA\BF120417\
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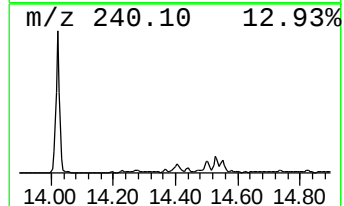
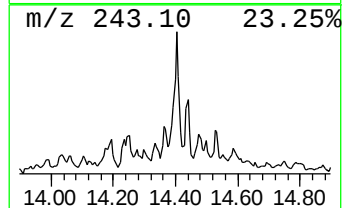
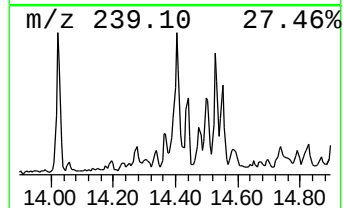
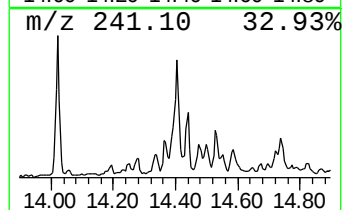
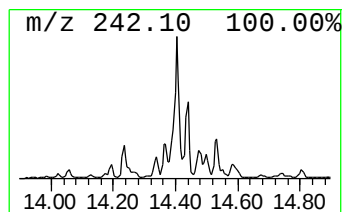
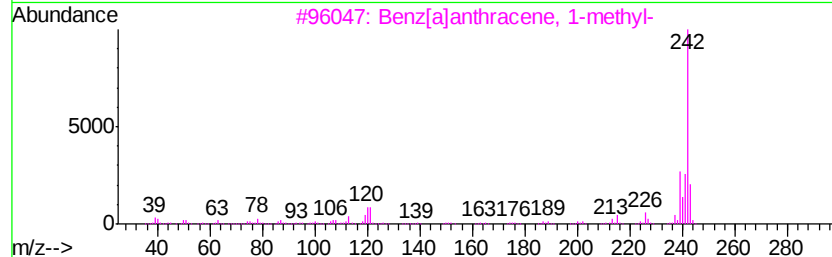
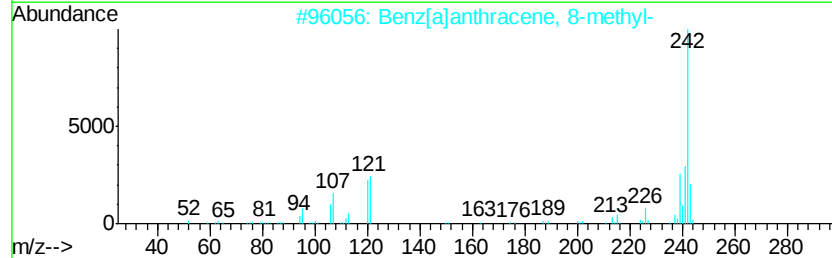
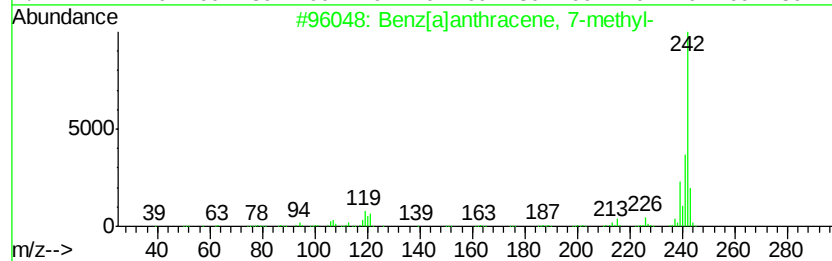
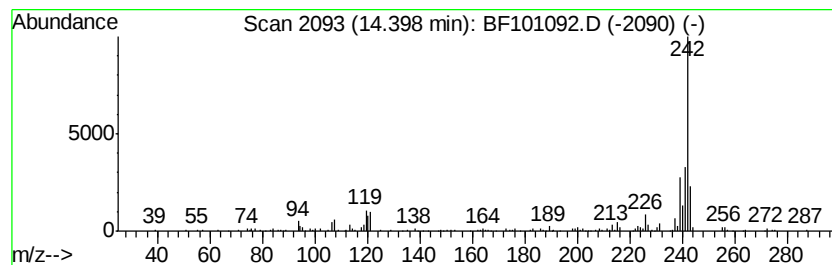
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Benz[a]anthracene, 7-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD		R.T.
14.40	3.93 ng	234245	Chrysene-d12		14.02
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[alanthracene, 7-methyl-	242	C19H14	002541-69-7	95
2	Benz[alanthracene, 8-methyl-	242	C19H14	002381-31-9	93
3	Benz[alanthracene, 1-methyl-	242	C19H14	002498-77-3	93
4	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	91
5	Chrysene, 1-methyl-	242	C19H14	003351-28-8	90



Data Path : Z:\HPCHEM1\BNA F\DATA\BF120417\
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Acq On : 4 Dec 2017 12:42
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Misc :
ALS Vial : 8 Sample Multiplier: 1

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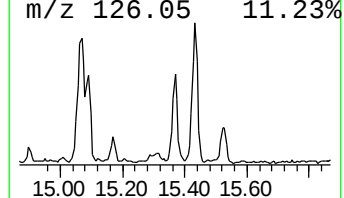
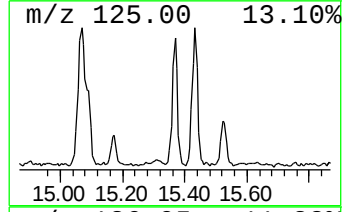
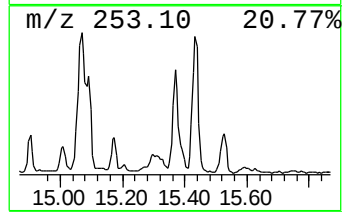
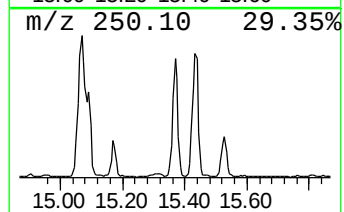
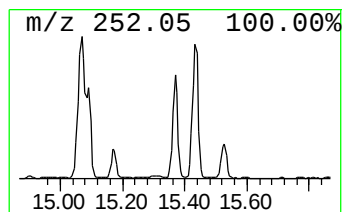
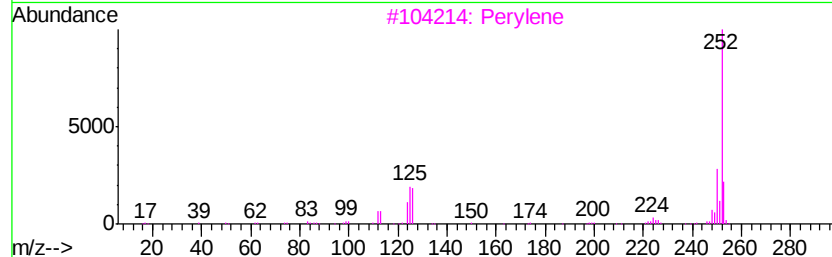
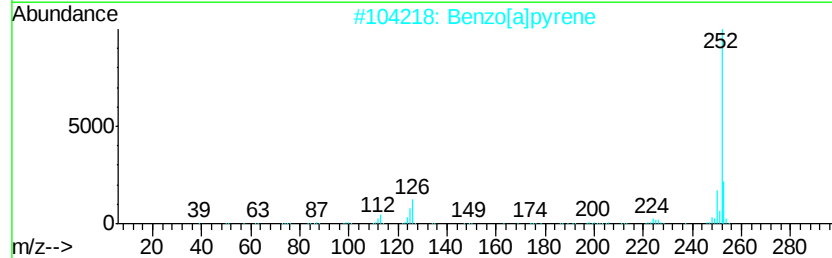
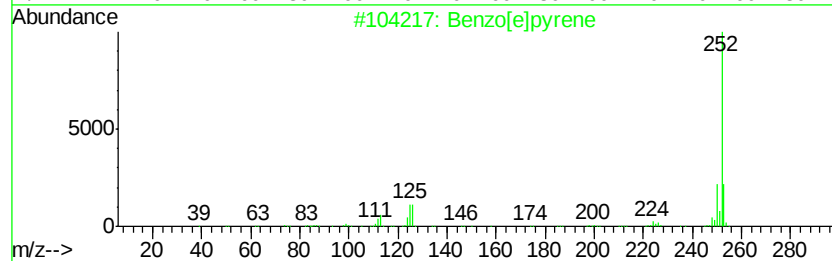
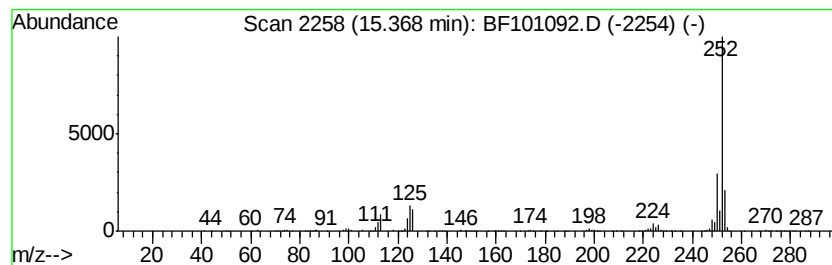
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 20 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.37	23.40 ng	423799	Perylene-d12	15.50

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2		Benzo[a]pyrene	252	C20H12	000050-32-8	97
3		Perylene	252	C20H12	000198-55-0	94
4		Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	90
5		Benzo[k]fluoranthene	252	C20H12	000207-08-9	89



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120417\
 Data File : BF101092.D
 Acq On : 4 Dec 2017 12:42
 Operator : SJ/JU
 Sample : I6620-02
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-1(6-8)-20171128

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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
2-Pentanone, 4-hy...	5.07	5.5 ng		84330	1	6.85	304305	20.0
unknown6.62	6.62	84.9 ng		1292070	1	6.85	304305	20.0
unknown10.79	10.79	5.3 ng		128382	4	11.37	479674	20.0
Anthracene, 1,2,3...	11.23	4.0 ng		97124	4	11.37	479674	20.0
Naphtho[2,1-b]thi...	11.27	3.7 ng		87864	4	11.37	479674	20.0
Phenanthrene, 1-m...	11.90	12.8 ng		307694	4	11.37	479674	20.0
Phenanthrene, 2-m...	11.95	4.5 ng		106961	4	11.37	479674	20.0
4H-Cyclopenta[def...	11.99	14.4 ng		344326	4	11.37	479674	20.0
5,16[1',2']:8,13[...	12.17	5.2 ng		124285	4	11.37	479674	20.0
9,10-Anthracenedione	12.20	5.0 ng		120549	4	11.37	479674	20.0
Phenanthrene, 4,5...	12.32	4.1 ng		98552	4	11.37	479674	20.0
Phenanthrene, 2,5...	12.42	7.3 ng		176333	4	11.37	479674	20.0
Cyclopenta(def)ph...	12.52	6.8 ng		162152	4	11.37	479674	20.0
Pyrene, 1-methyl-	13.03	4.0 ng		238737	5	14.02	1192550	20.0
Benz[a]anthracene...	14.40	3.9 ng		234245	5	14.02	1192550	20.0
Benzo[e]pyrene	15.37	23.4 ng		423799	6	15.50	362255	20.0