

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040119\
 Data File : BF113466.D
 Acq On : 1 Apr 2019 15:04
 Operator : JU/SJ
 Sample : K2056-03
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CS-9

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.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	5.328	546	551	575	rBV	2758651	3058033	40.61%	3.038%
2	6.357	721	726	743	rBV	3093176	3212856	42.67%	3.191%
3	6.481	743	747	750	rBV	3518620	3154376	41.89%	3.133%
4	6.704	782	785	796	rVB	1137383	927235	12.31%	0.921%
5	6.863	808	812	815	rBV	2881732	2500054	33.20%	2.483%
6	7.269	877	881	895	rBV	2061783	2026676	26.91%	2.013%
7	7.987	999	1003	1024	rBV	1252350	1224934	16.27%	1.217%
8	9.063	1181	1186	1189	rBV	4177880	3733009	49.57%	3.708%
9	9.457	1250	1253	1257	rVV	212058	186988	2.48%	0.186%
10	9.598	1274	1277	1288	rVB	211629	197597	2.62%	0.196%
11	9.733	1295	1300	1303	rBV	1332345	1343380	17.84%	1.334%
12	9.769	1303	1306	1311	rVB	454215	406147	5.39%	0.403%
13	9.939	1332	1335	1340	rBV	156856	164927	2.19%	0.164%
14	10.281	1390	1393	1399	rBV	305700	271788	3.61%	0.270%
15	10.522	1430	1434	1447	rVB	2169193	2265505	30.08%	2.250%
16	11.022	1516	1519	1524	rVB	222817	214914	2.85%	0.213%
17	11.110	1532	1534	1540	rVB	162019	156089	2.07%	0.155%
18	11.216	1548	1552	1554	rBV	1528432	1429335	18.98%	1.420%
19	11.239	1554	1556	1560	rVV	2604634	2129470	28.28%	2.115%
20	11.292	1560	1565	1568	rVV	592069	608073	8.07%	0.604%
21	11.445	1586	1591	1599	rBV2	577691	792515	10.52%	0.787%
22	11.510	1599	1602	1606	rVV3	143380	164419	2.18%	0.163%
23	11.622	1613	1621	1627	rVB5	52520	128744	1.71%	0.128%
24	11.716	1632	1637	1639	rBV2	331448	337057	4.48%	0.335%
25	11.751	1639	1643	1647	rVV2	647760	926836	12.31%	0.921%
26	11.792	1647	1650	1652	rVV	155320	170471	2.26%	0.169%
27	11.827	1652	1656	1658	rVV	618580	638829	8.48%	0.635%
28	11.845	1658	1659	1665	rVB	221388	209620	2.78%	0.208%
29	11.898	1665	1668	1670	rBV2	114567	125550	1.67%	0.125%
30	11.922	1670	1672	1674	rVV2	134827	125349	1.66%	0.125%
31	11.951	1674	1677	1680	rVV	103855	137894	1.83%	0.137%
32	12.010	1684	1687	1689	rVV	353044	311406	4.14%	0.309%
33	12.039	1689	1692	1696	rVB	1310108	1205957	16.01%	1.198%
34	12.157	1708	1712	1716	rBV3	125659	157382	2.09%	0.156%

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35	12.263	1726	1730	1733	rBV	178848	204970	2.72%	0.204%
36	12.298	1733	1736	1742	rVB3	365429	460230	6.11%	0.457%
37	12.357	1742	1746	1750	rBV	917418	872892	11.59%	0.867%
38	12.439	1753	1760	1763	rBV	5798350	7530369	100.00%	7.480%
39	12.492	1767	1769	1771	rVB	242844	184512	2.45%	0.183%
40	12.539	1771	1777	1780	rBV2	1233609	1416041	18.80%	1.407%
41	12.569	1780	1782	1787	rVV2	576366	600577	7.98%	0.597%
42	12.663	1791	1798	1801	rBV2	5048845	7232573	96.05%	7.184%
43	12.704	1802	1805	1809	rVB	323792	334398	4.44%	0.332%
44	12.774	1813	1817	1818	rBV	534198	552037	7.33%	0.548%
45	12.798	1818	1821	1828	rVB2	3603329	4080720	54.19%	4.054%
46	12.874	1828	1834	1837	rBV3	474599	695890	9.24%	0.691%
47	12.957	1844	1848	1850	rBV4	531449	643057	8.54%	0.639%
48	12.980	1850	1852	1855	rVB	644641	552234	7.33%	0.549%
49	13.016	1855	1858	1860	rBV	105117	121807	1.62%	0.121%
50	13.045	1860	1863	1866	rBV	456651	399598	5.31%	0.397%
51	13.080	1866	1869	1872	rBV2	576554	650128	8.63%	0.646%
52	13.139	1877	1879	1882	rVV	190355	193809	2.57%	0.193%
53	13.174	1882	1885	1888	rVV	365164	363461	4.83%	0.361%
54	13.204	1888	1890	1898	rVV2	297023	522287	6.94%	0.519%
55	13.263	1898	1900	1903	rVV2	212930	238354	3.17%	0.237%
56	13.298	1903	1906	1909	rVV2	103950	125795	1.67%	0.125%
57	13.363	1913	1917	1919	rVV2	141497	222232	2.95%	0.221%
58	13.398	1921	1923	1926	rVV2	199885	251965	3.35%	0.250%
59	13.421	1926	1927	1930	rVV3	110248	110689	1.47%	0.110%
60	13.463	1931	1934	1935	rVV2	133071	139644	1.85%	0.139%
61	13.492	1935	1939	1943	rVV	1378019	1375062	18.26%	1.366%
62	13.545	1946	1948	1952	rVV2	91724	121081	1.61%	0.120%
63	13.598	1953	1957	1959	rVV	1165187	1182498	15.70%	1.175%
64	13.621	1959	1961	1963	rVV	842784	767671	10.19%	0.763%
65	13.645	1963	1965	1971	rVV3	765480	1272102	16.89%	1.264%
66	13.698	1971	1974	1977	rVV	1329427	1307127	17.36%	1.298%
67	13.727	1977	1979	1983	rVV2	293574	496724	6.60%	0.493%
68	13.763	1983	1985	1991	rVV	288912	485613	6.45%	0.482%
69	13.845	1991	1999	2002	rVV3	2031365	4341324	57.65%	4.312%
70	13.880	2002	2005	2012	rVV	3505834	3835874	50.94%	3.810%
71	13.951	2012	2017	2019	rVV2	460899	563949	7.49%	0.560%

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72	13.974	2019	2021	2023	rVV2	244354	279490	3.71%	0.278%
73	14.010	2023	2027	2030	rVV4	299567	576688	7.66%	0.573%
74	14.069	2034	2037	2041	rVV2	351078	582014	7.73%	0.578%
75	14.110	2041	2044	2046	rVV3	262948	304976	4.05%	0.303%
76	14.133	2046	2048	2051	rVV3	139903	169367	2.25%	0.168%
77	14.192	2055	2058	2060	rVV3	208898	270213	3.59%	0.268%
78	14.233	2060	2065	2067	rVV2	437553	670791	8.91%	0.666%
79	14.280	2067	2073	2076	rVV2	754007	1185438	15.74%	1.178%
80	14.316	2076	2079	2083	rVV2	374334	569575	7.56%	0.566%
81	14.357	2083	2086	2087	rVV2	370322	392099	5.21%	0.389%
82	14.374	2087	2089	2092	rVV2	299273	340954	4.53%	0.339%
83	14.427	2096	2098	2103	rVB2	186154	188237	2.50%	0.187%
84	14.539	2113	2117	2120	rBV	505714	501899	6.66%	0.499%
85	14.610	2126	2129	2133	rVB2	261181	281502	3.74%	0.280%
86	14.657	2134	2137	2140	rBV	485932	596965	7.93%	0.593%
87	14.710	2143	2146	2149	rVV2	221040	229549	3.05%	0.228%
88	14.786	2156	2159	2166	rVB2	257245	404380	5.37%	0.402%
89	14.868	2166	2173	2179	rBV2	2625982	5310466	70.52%	5.275%
90	14.921	2179	2182	2186	rVV3	372690	450880	5.99%	0.448%
91	14.957	2186	2188	2191	rVB	228420	218402	2.90%	0.217%
92	15.039	2199	2202	2208	rBV2	170455	279290	3.71%	0.277%
93	15.139	2215	2219	2225	rVB	1371017	1806174	23.99%	1.794%
94	15.198	2225	2229	2234	rVV	917511	1103574	14.65%	1.096%
95	15.257	2234	2239	2253	rVB3	972918	1805622	23.98%	1.794%
96	15.668	2304	2309	2313	rBV	237933	340047	4.52%	0.338%
97	16.127	2382	2387	2393	rVB2	153370	274330	3.64%	0.273%
98	16.621	2464	2471	2478	rBV2	755928	1547529	20.55%	1.537%
99	16.774	2492	2497	2502	rBV4	109978	264584	3.51%	0.263%
100	17.021	2533	2539	2549	rVB	305883	633224	8.41%	0.629%

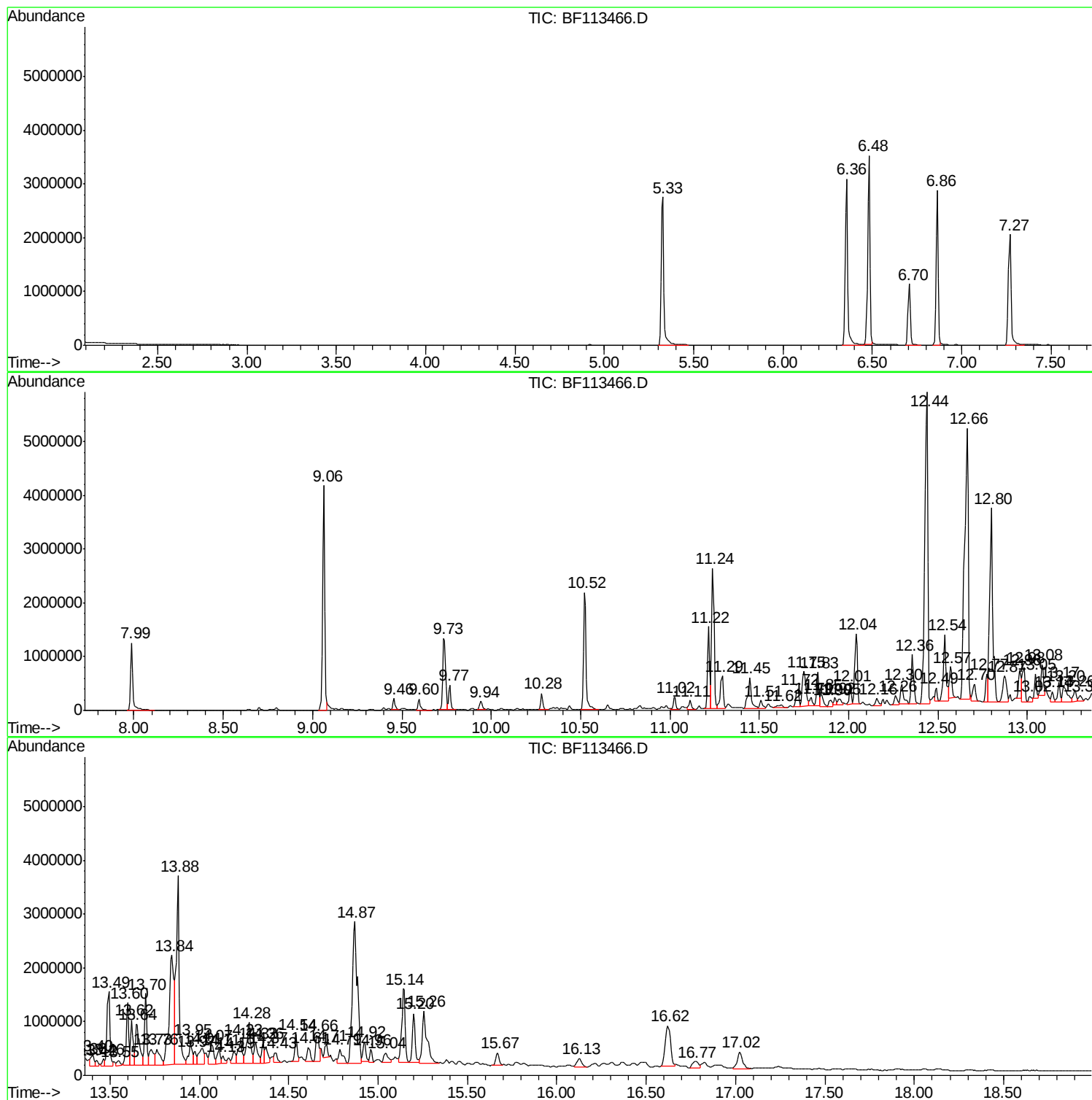
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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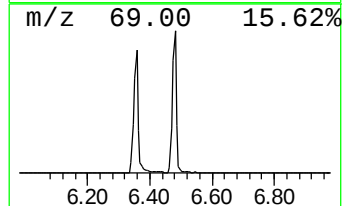
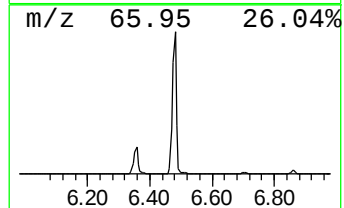
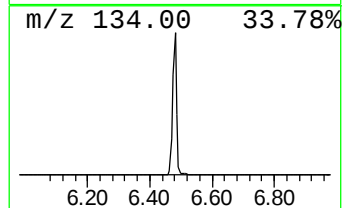
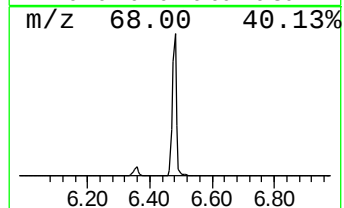
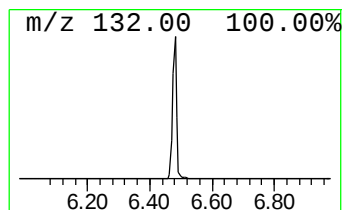
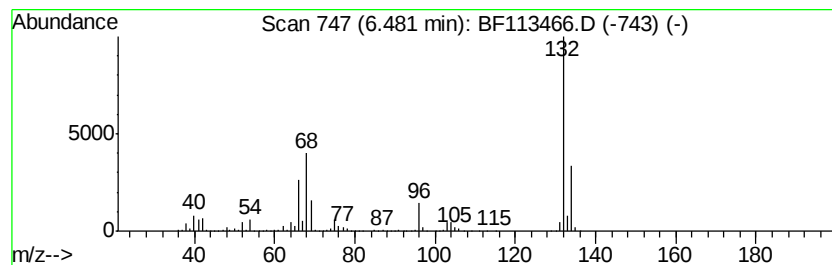
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 unknown6.48 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.48	68.04 ng	3154380	1,4-Dichlorobenzene-d4	6.70

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2		(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	16
3		Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
4		4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9
5		Xenon	132	Xe	007440-63-3	9



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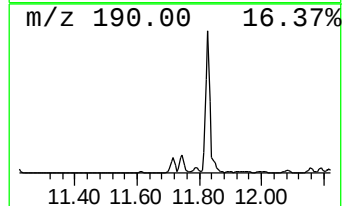
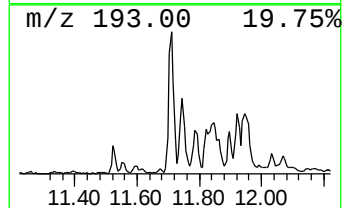
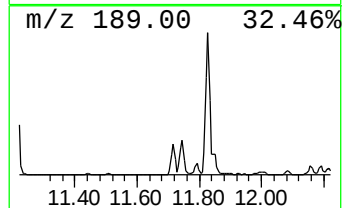
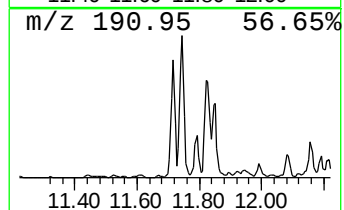
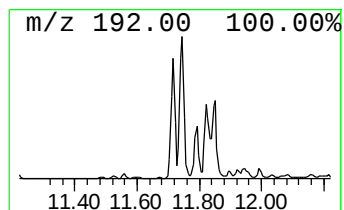
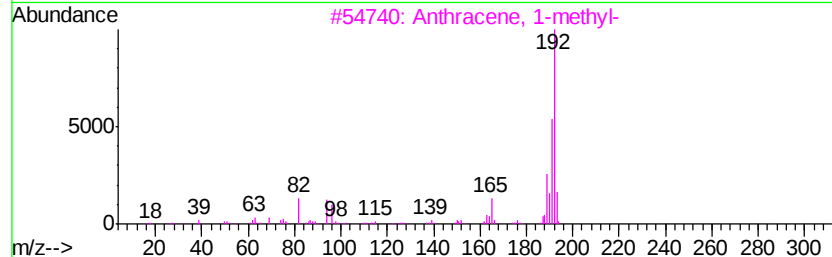
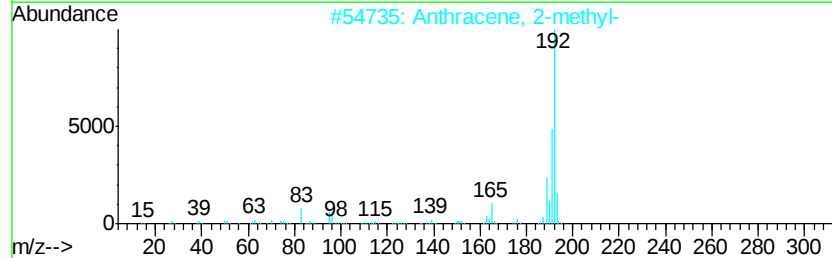
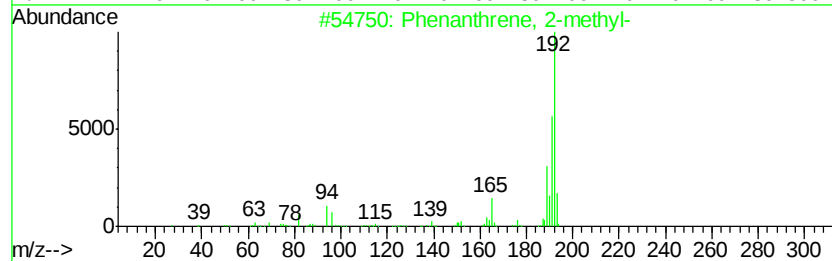
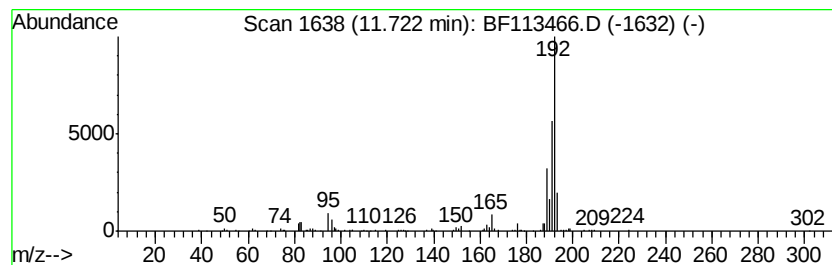
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.72	4.72 ng	337057	Phenanthrene-d10	11.22	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	89
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87



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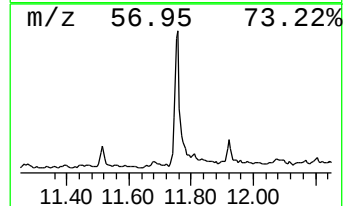
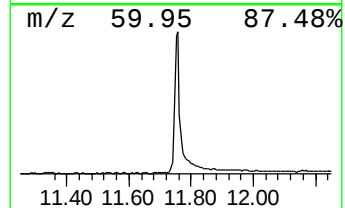
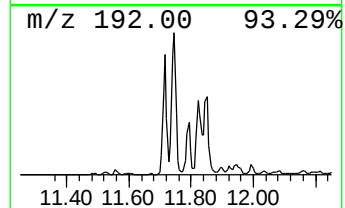
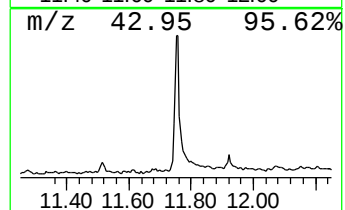
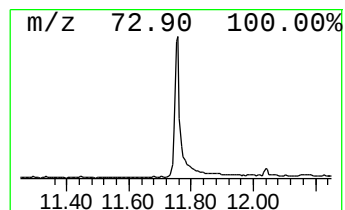
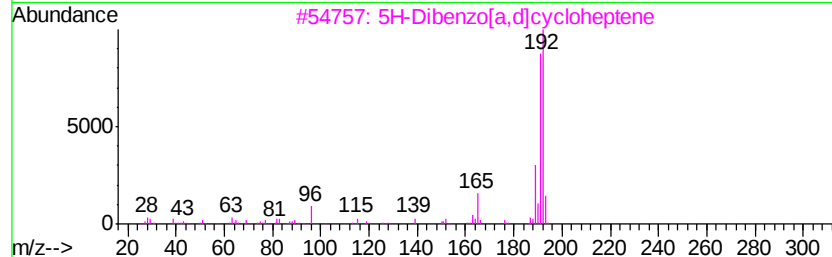
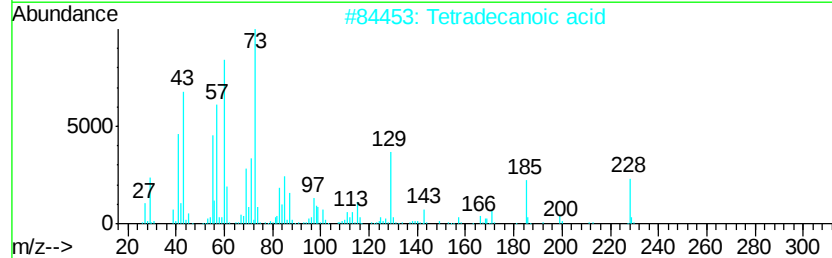
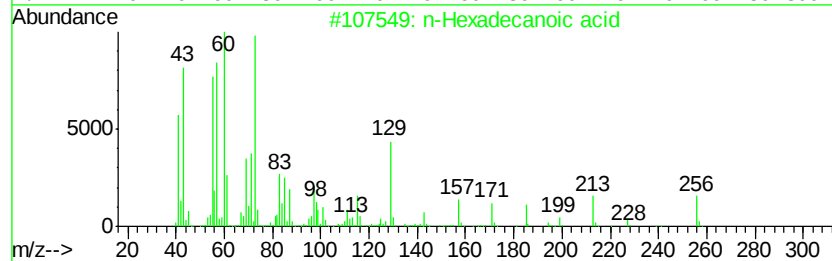
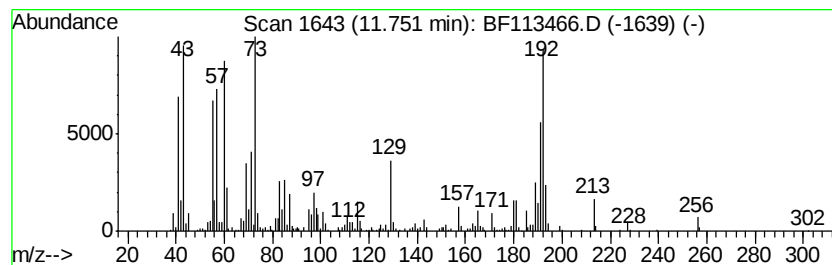
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Peak Number 4 n-Hexadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.75	12.97 ng	926836	Phenanthrene-d10	11.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	97
2	Tetradecanoic acid	228	C14H28O2	000544-63-8	89
3	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	78
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	64
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	64



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040119\
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Acq On : 1 Apr 2019 15:04
Operator : JU/SJ
Sample : K2056-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

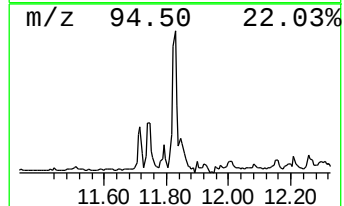
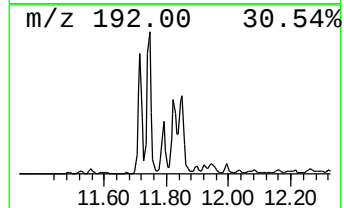
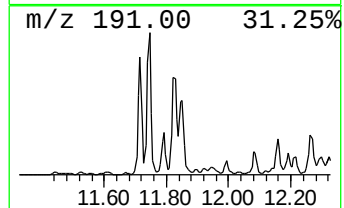
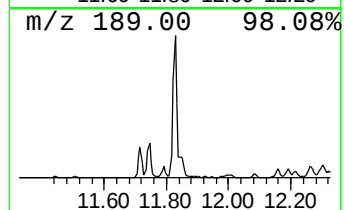
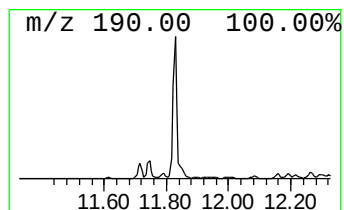
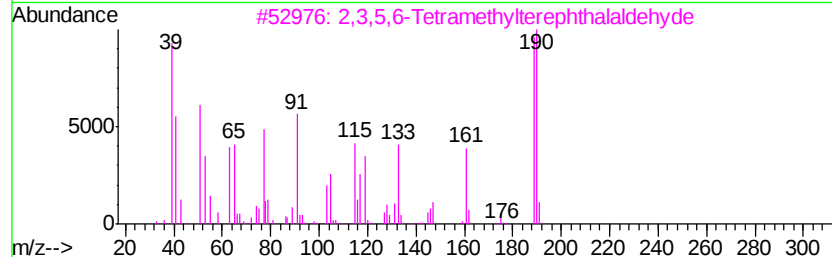
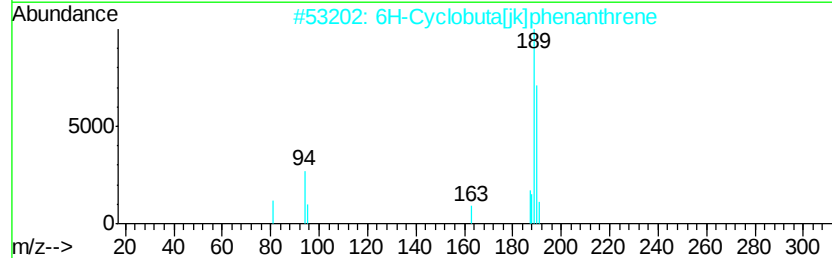
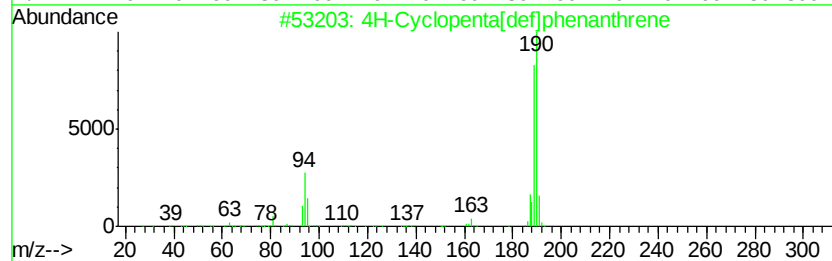
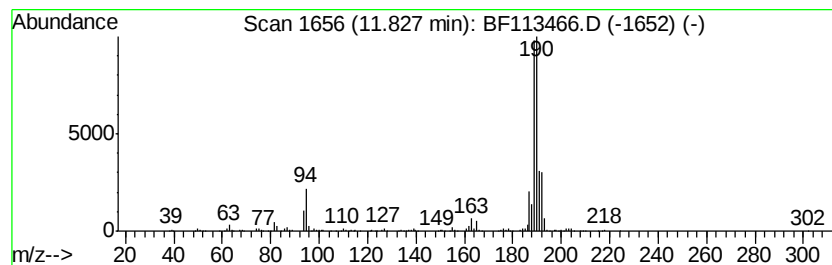
Instrument :
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ClientSampleId :
CS-9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.83	8.94 ng	638829	Phenanthrene-d10	11.22	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	56
3	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
5	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	25



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040119\
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Acq On : 1 Apr 2019 15:04
Operator : JU/SJ
Sample : K2056-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

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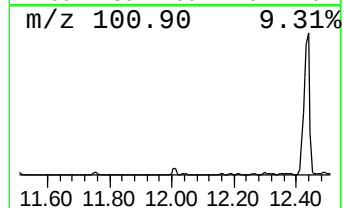
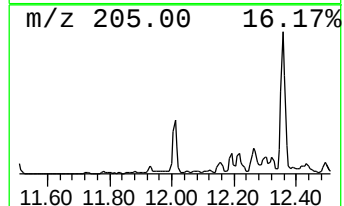
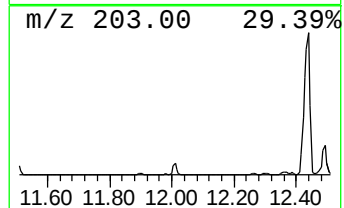
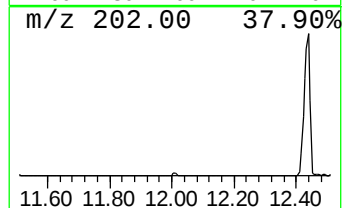
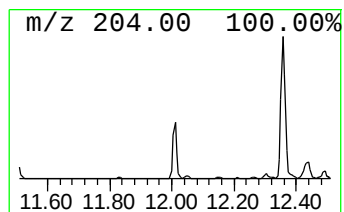
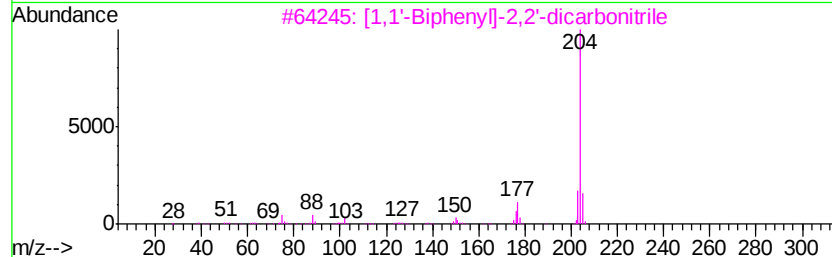
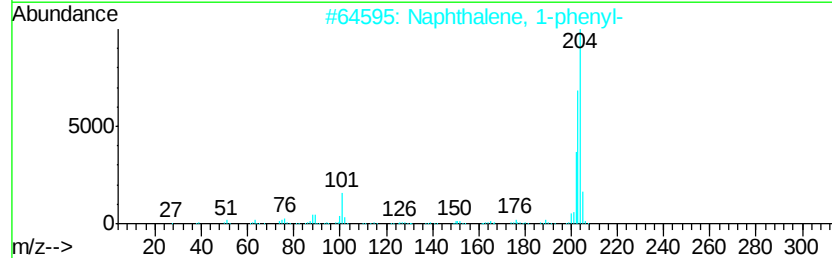
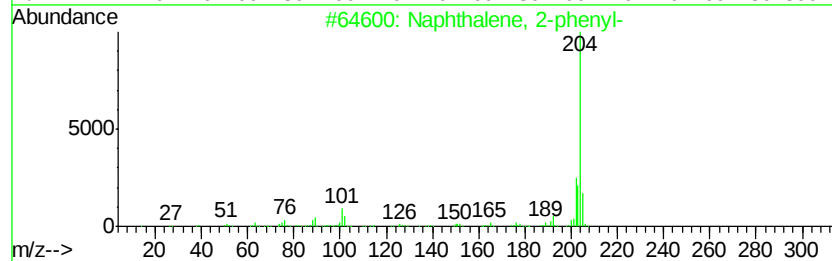
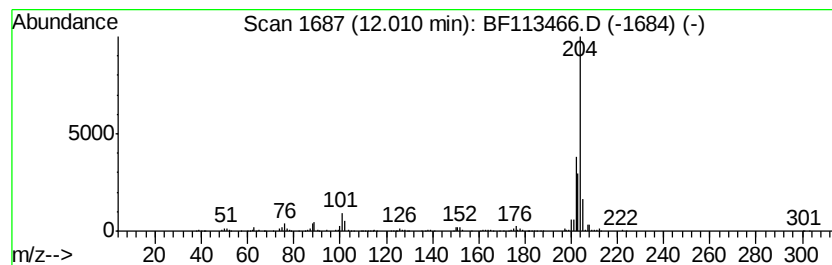
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Naphthalene, 2-phenyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.01	4.36 ng	311406	Phenanthrene-d10	11.22

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	91
2		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	64
3		[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	52
4		5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	52
5		[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	50



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040119\
Data File : BF113466.D
Acq On : 1 Apr 2019 15:04
Operator : JU/SJ
Sample : K2056-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

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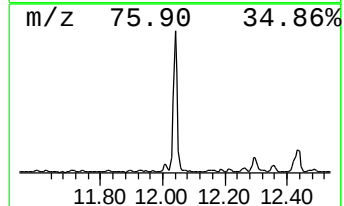
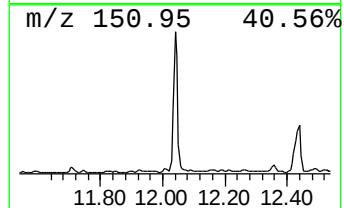
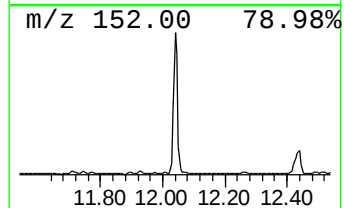
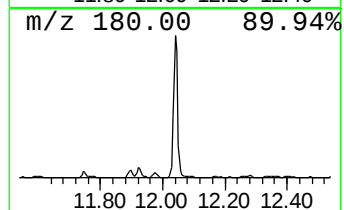
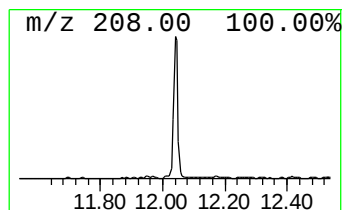
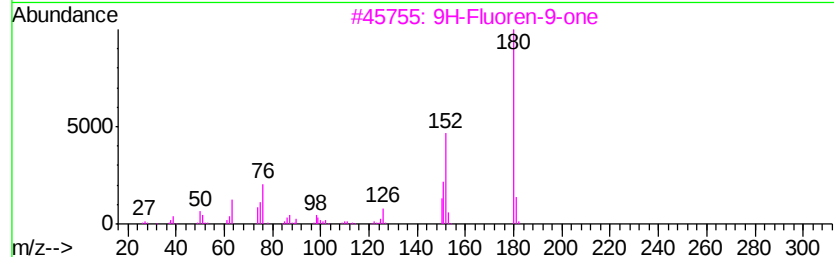
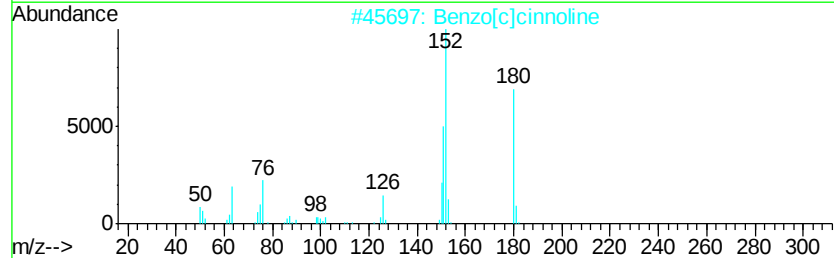
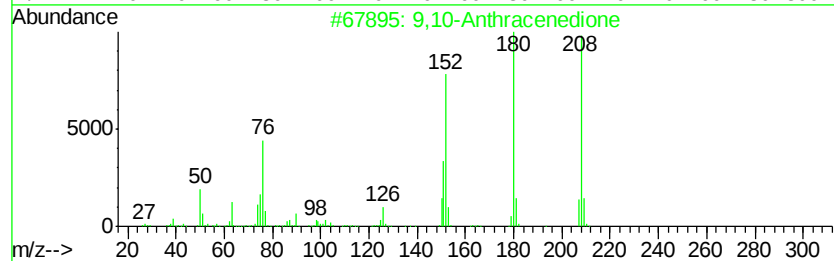
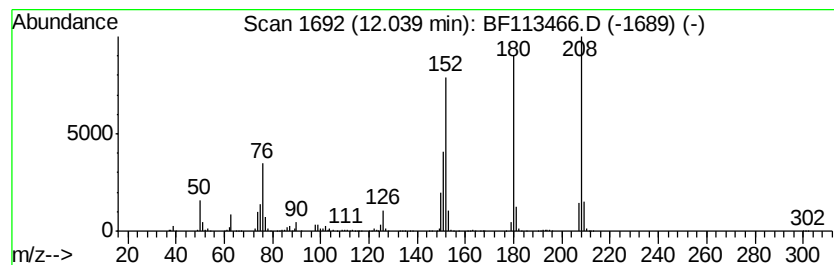
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 9,10-Anthracenedione Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.04	16.87 ng	1205960	Phenanthrene-d10	11.22

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2		Benzo[c]cinnoline	180	C12H8N2	000230-17-1	93
3		9H-Fluoren-9-one	180	C13H8O	000486-25-9	62
4		1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
5		Benzo[h]cinnoline	180	C12H8N2	000230-31-9	60



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040119\
Data File : BF113466.D
Acq On : 1 Apr 2019 15:04
Operator : JU/SJ
Sample : K2056-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

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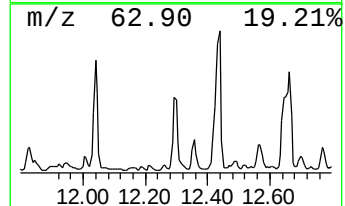
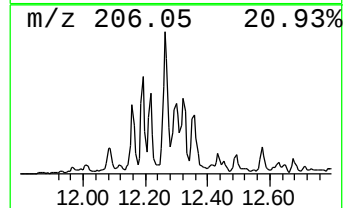
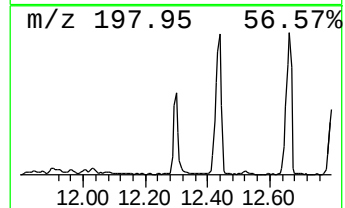
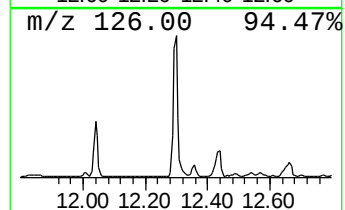
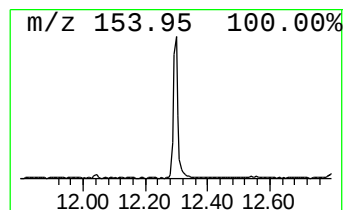
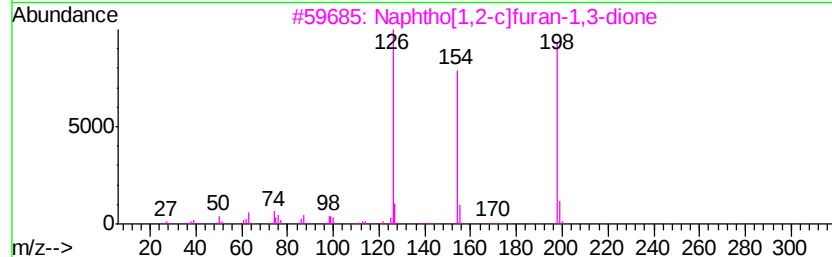
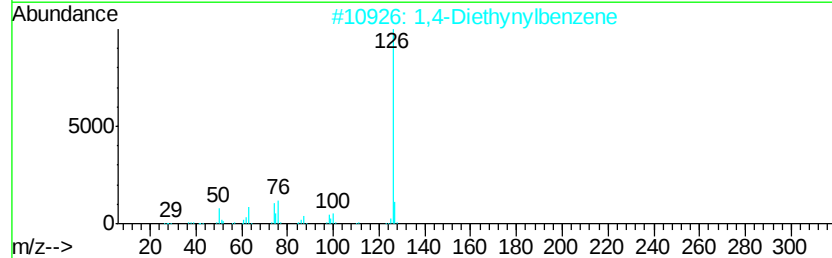
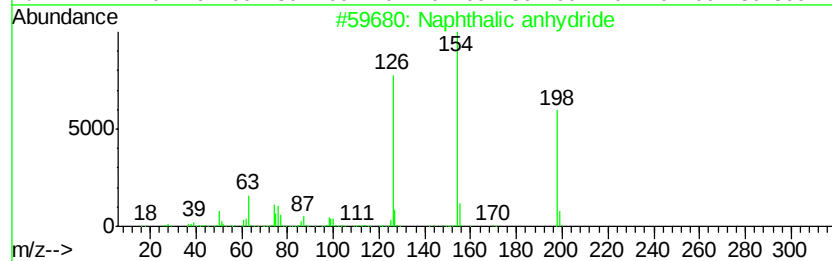
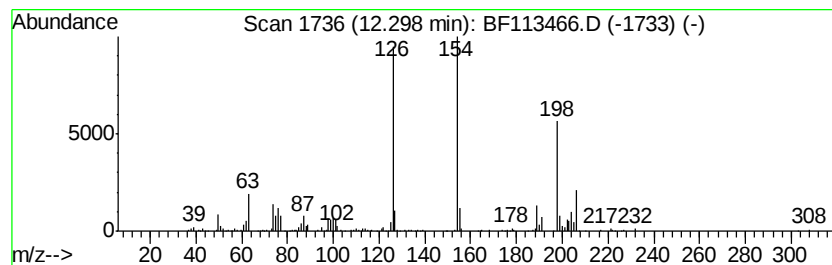
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Naphthalic anhydride Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.30	6.44 ng	460230	Phenanthrene-d10	11.22

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalic anhydride	198	C12H6O3	000081-84-5	98
2		1,4-Diethynylbenzene	126	C10H6	000935-14-8	70
3		Naphtho[1,2-c]furan-1,3-dione	198	C12H6O3	005343-99-7	68
4		1H-Benz[f]indene-1,2,3-trione	210	C13H6O3	020927-01-9	43
5		1H-Benz[f]indene-1,3(2H)-dione, ...	228	C13H8O4	038627-57-5	43



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040119\
Data File : BF113466.D
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Misc :
ALS Vial : 9 Sample Multiplier: 1

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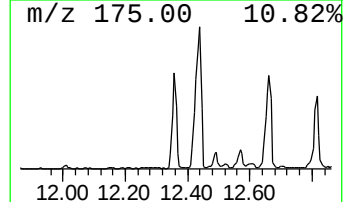
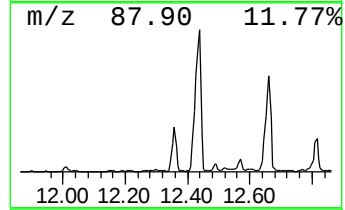
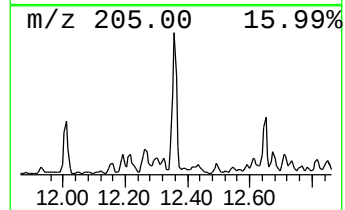
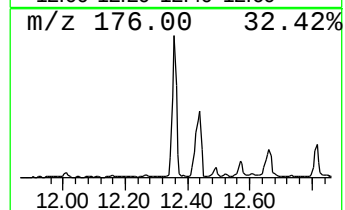
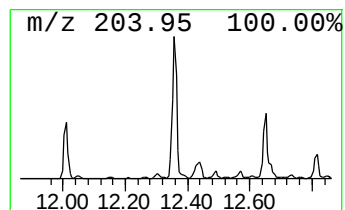
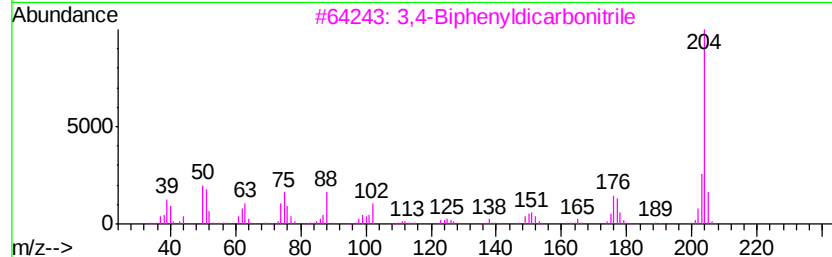
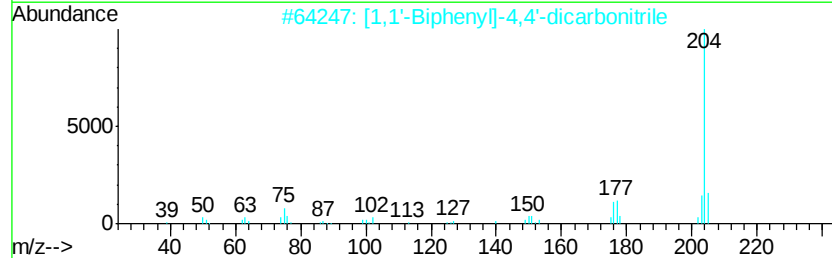
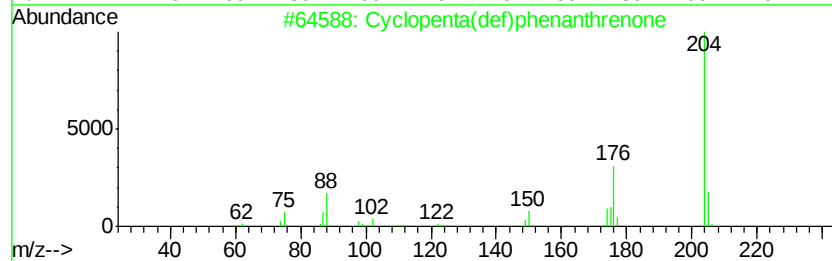
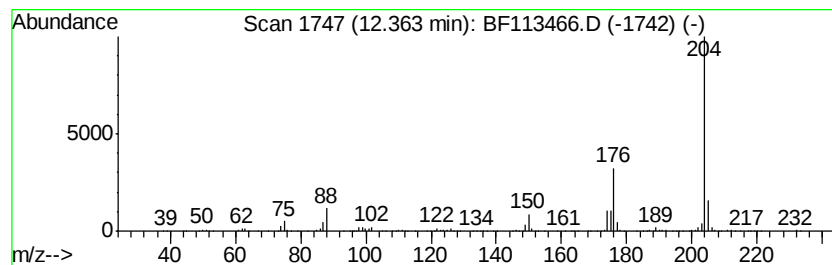
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Cyclopenta(def)phenanthrenone Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.36	12.21 ng	872892	Phenanthrene-d10	11.22

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	97
2		[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	59
3		3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	50
4		Quinoline, 8-methoxy-5-nitro-	204	C10H8N2O3	1000298-88-7	47
5		1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	46



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040119\
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Acq On : 1 Apr 2019 15:04
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ClientSampleId :
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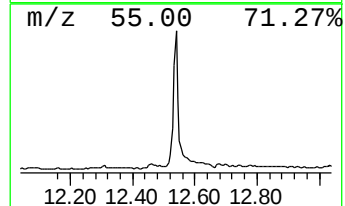
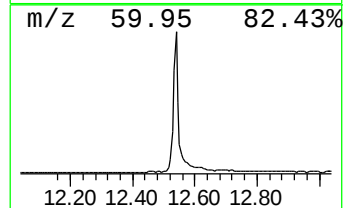
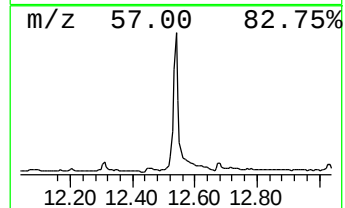
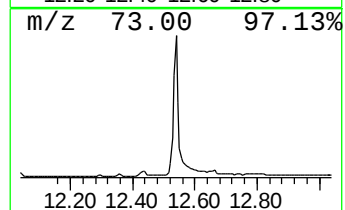
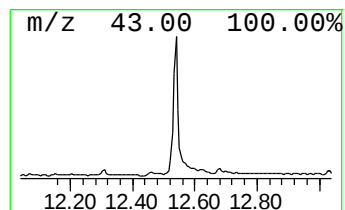
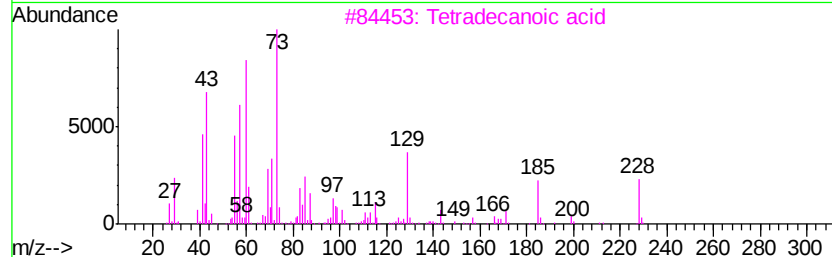
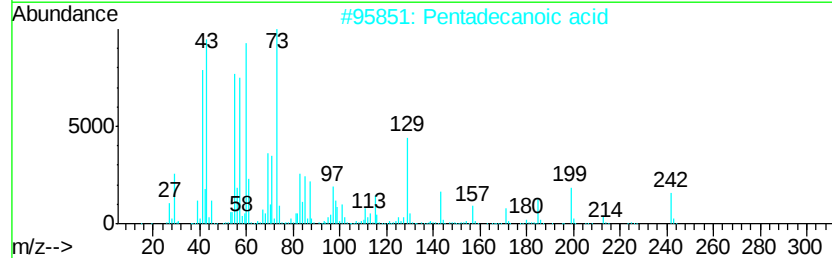
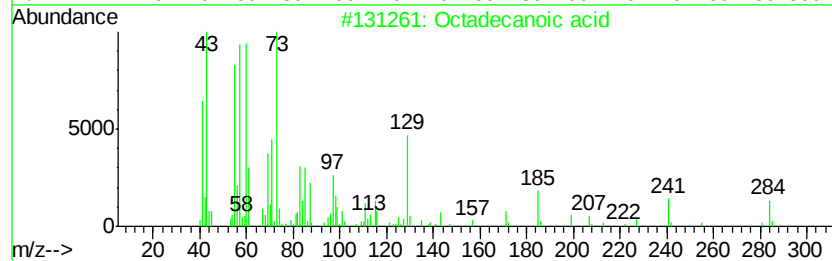
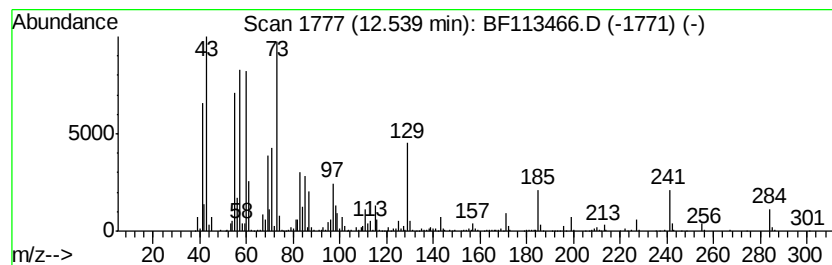
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Octadecanoic acid Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.54	6.52 ng	1416040	Chrysene-d12	13.85

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2		Pentadecanoic acid	242	C15H30O2	001002-84-2	93
3		Tetradecanoic acid	228	C14H28O2	000544-63-8	87
4		n-Decanoic acid	172	C10H20O2	000334-48-5	62
5		n-Hexadecanoic acid	256	C16H32O2	000057-10-3	58



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040119\
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Sample : K2056-03
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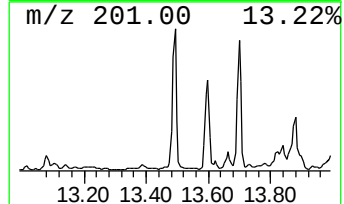
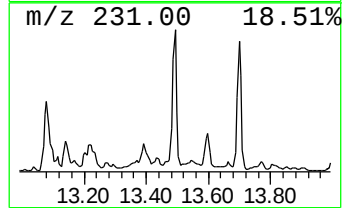
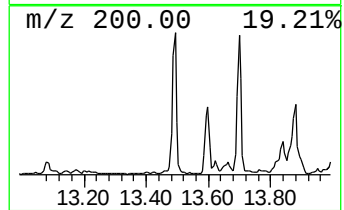
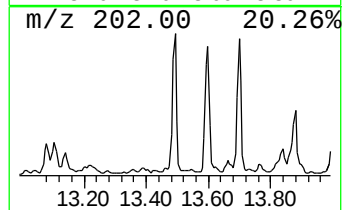
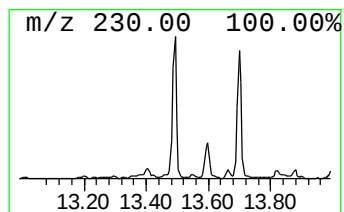
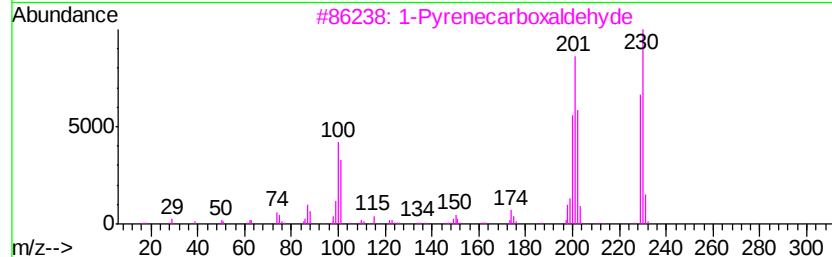
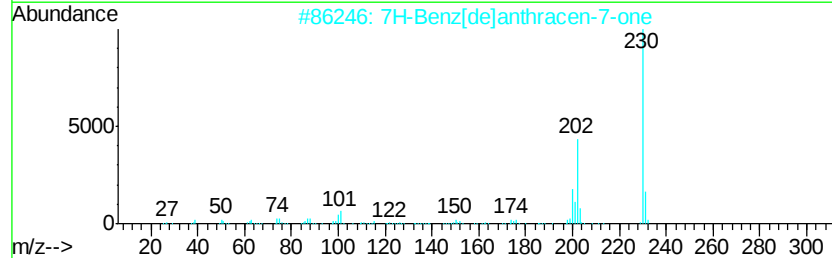
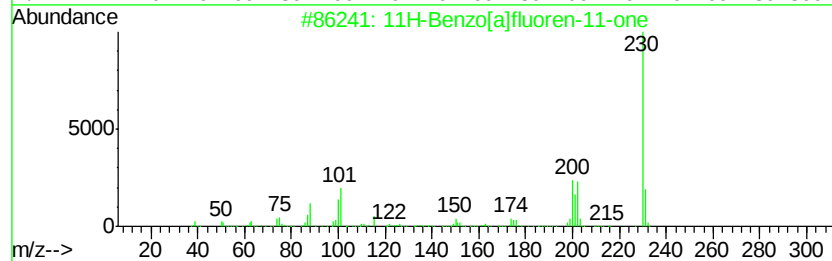
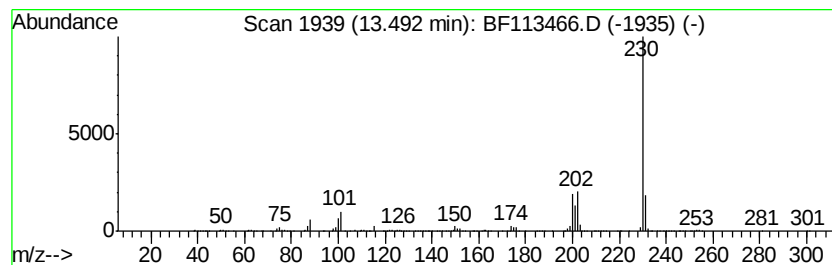
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ClientSampleId :
CS-9

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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 11H-Benzo[a]fluoren-11-one Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.		
13.49	6.33 ng	1375060	Chrysene-d12	13.85		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	97
2		7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
3		1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	78
4		o-Terphenyl	230	C18H14	000084-15-1	64
5		Pyrene, 1,3-dimethyl-	230	C18H14	064401-21-4	58



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040119\
Data File : BF113466.D
Acq On : 1 Apr 2019 15:04
Operator : JU/SJ
Sample : K2056-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CS-9

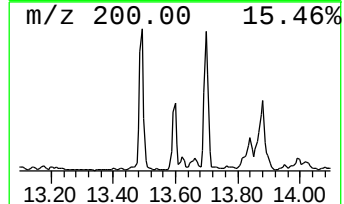
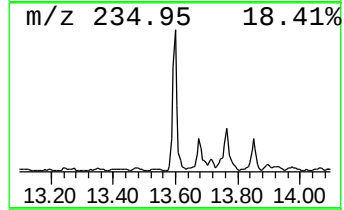
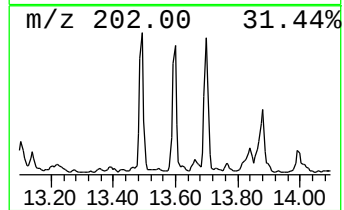
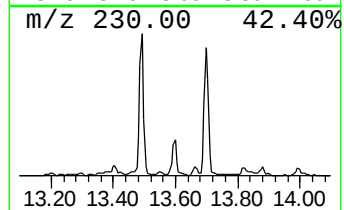
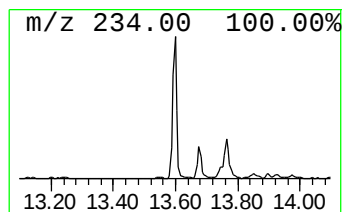
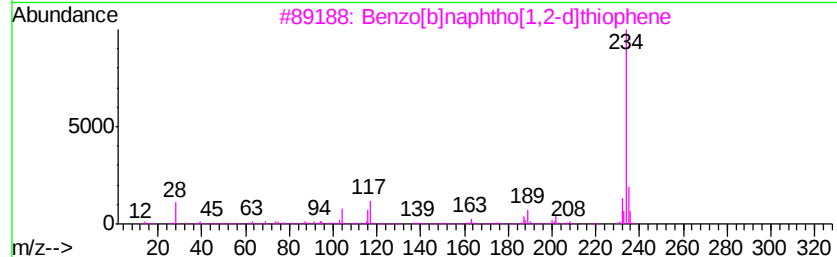
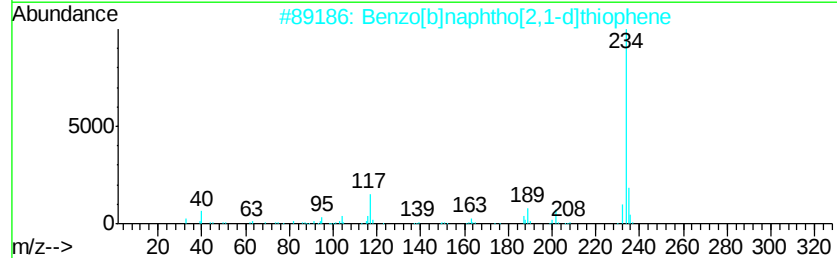
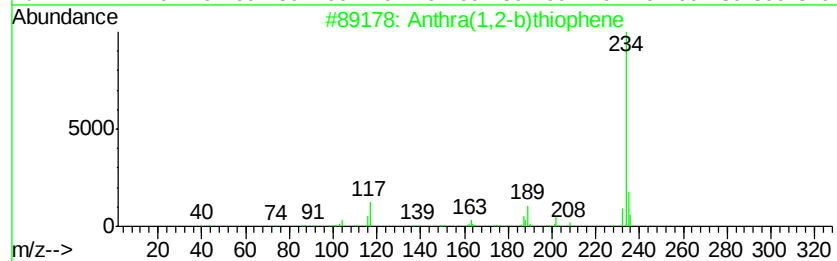
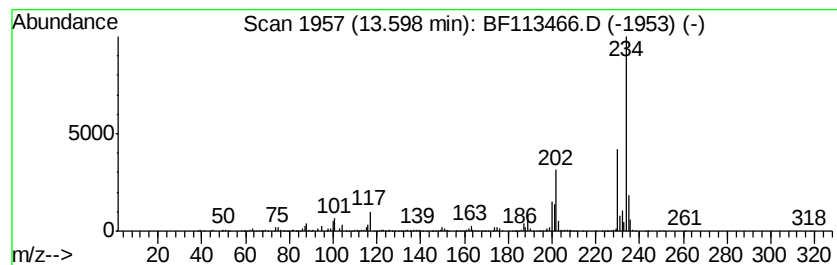
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Anthra(1,2-b)thiophene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.60	5.45 ng	1182500	Chrysene-d12	13.85

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	60
2		Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	55
3		Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	55
4		Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	53
5		Quinoxalino[2,3-b]quinoxaline, 5...	234	C14H10N4	000531-46-4	38



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040119\
Data File : BF113466.D
Acq On : 1 Apr 2019 15:04
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Sample : K2056-03
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Instrument :
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ClientSampleId :
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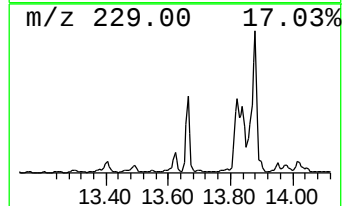
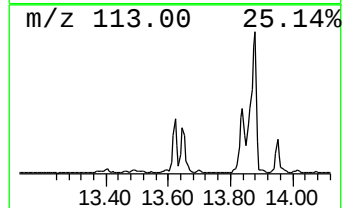
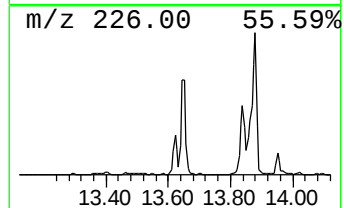
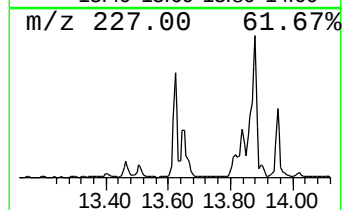
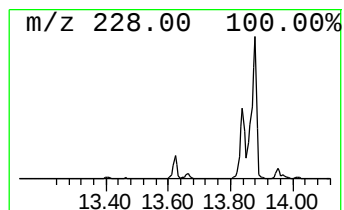
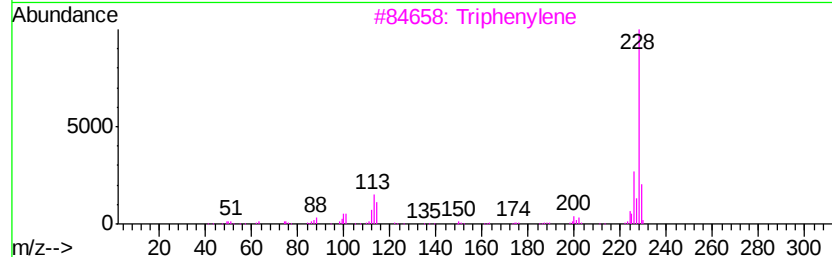
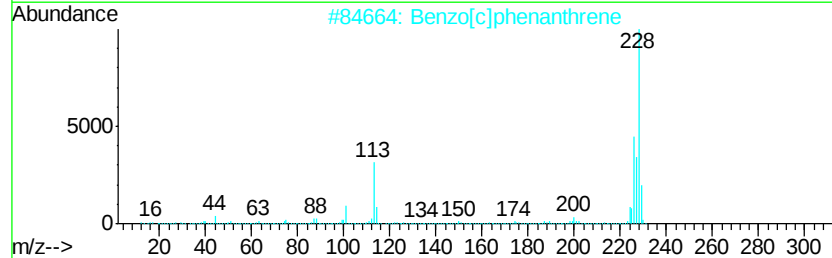
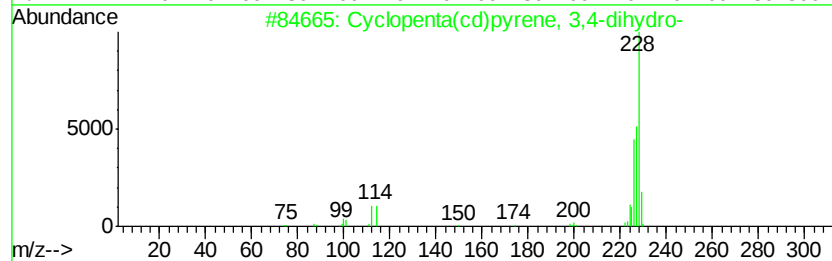
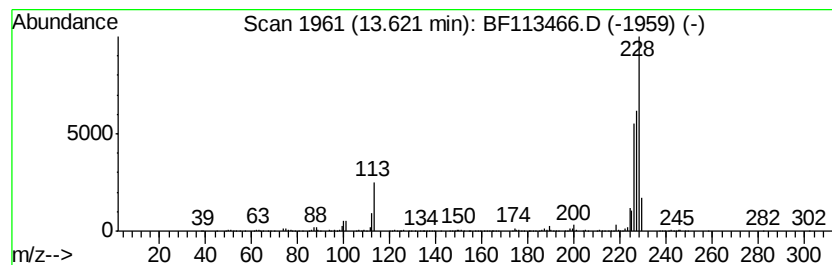
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.62	3.54 ng	767671	Chrysene-d12	13.85

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	83
2			Benzo[c]phenanthrene	228	C18H12	000195-19-7	64
3			Triphenylene	228	C18H12	000217-59-4	55
4			Benz[a]anthracene	228	C18H12	000056-55-3	43
5			Purine-6(1H)-thione, 3,7-dimethy...	228	C7H8N4Se	023663-58-3	40



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040119\
Data File : BF113466.D
Acq On : 1 Apr 2019 15:04
Operator : JU/SJ
Sample : K2056-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

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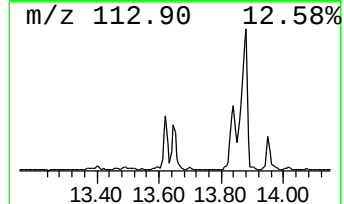
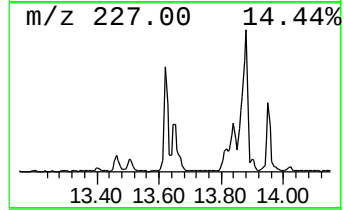
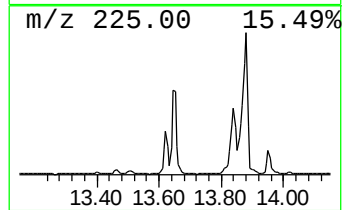
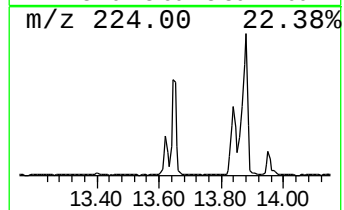
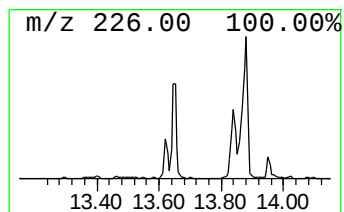
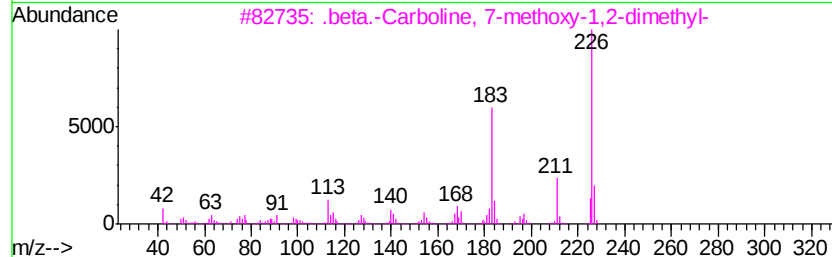
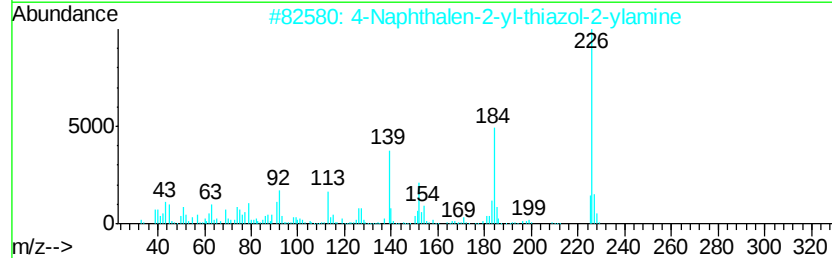
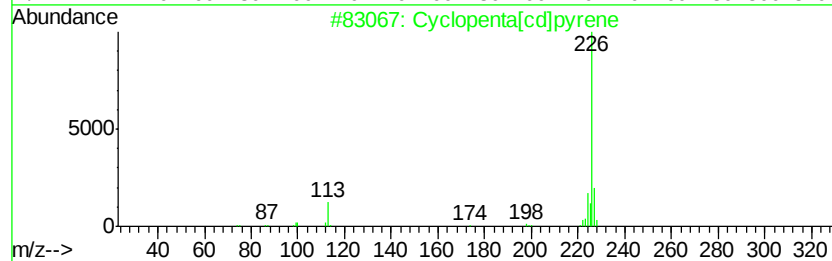
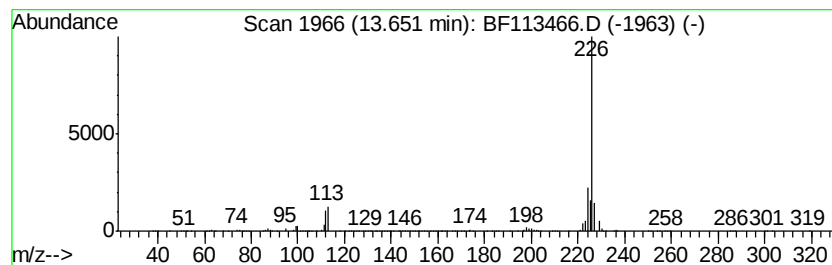
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Cyclopenta[cd]pyrene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.65	5.86 ng	1272100	Chrysene-d12	13.85

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	94
2		4-Naphthalen-2-yl-thiazol-2-ylamine	226	C13H10N2S	1000300-53-4	53
3		.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	53
4		1,3-Diamino-5,6-dihydro-9-methyl...	226	C13H14N4	037436-39-8	42
5		9H-Xanthen-9-one, 3-methoxy-	226	C14H10O3	003722-52-9	40



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040119\
Data File : BF113466.D
Acq On : 1 Apr 2019 15:04
Operator : JU/SJ
Sample : K2056-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

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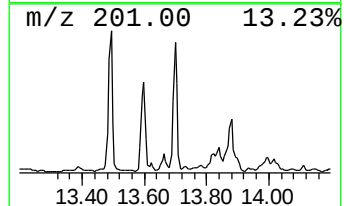
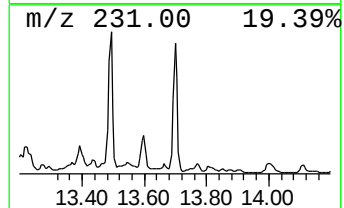
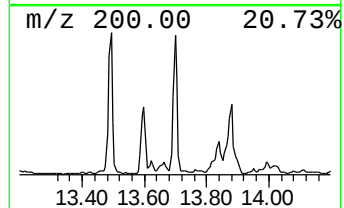
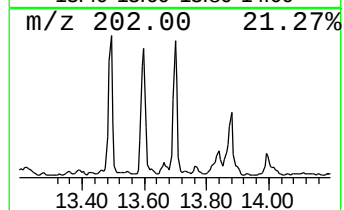
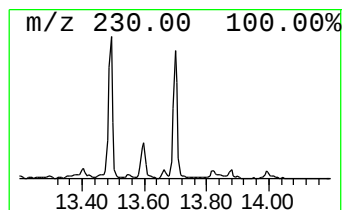
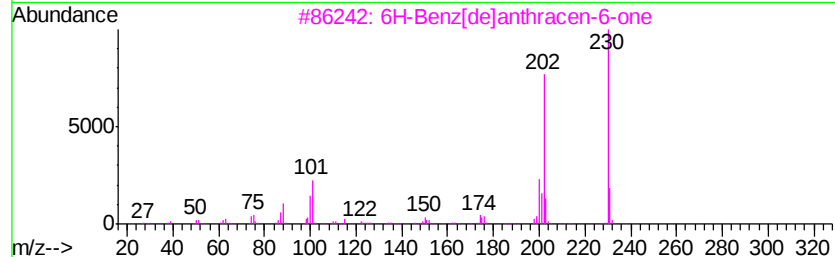
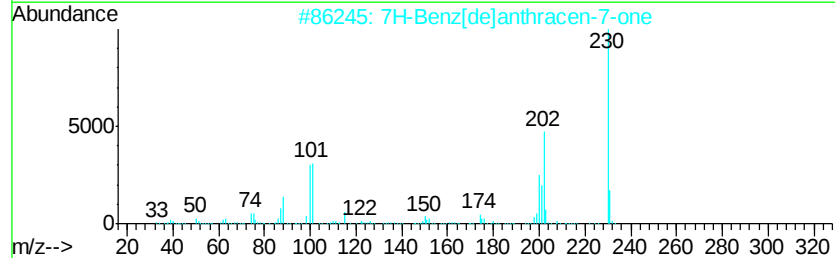
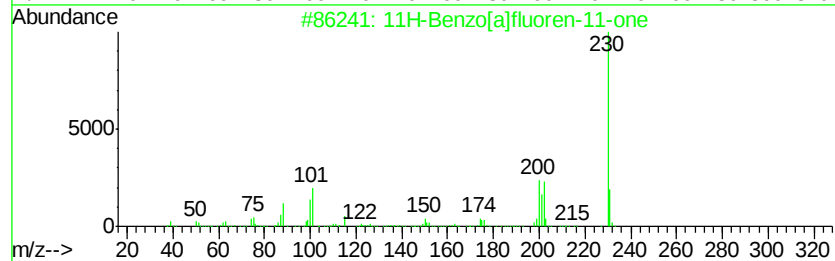
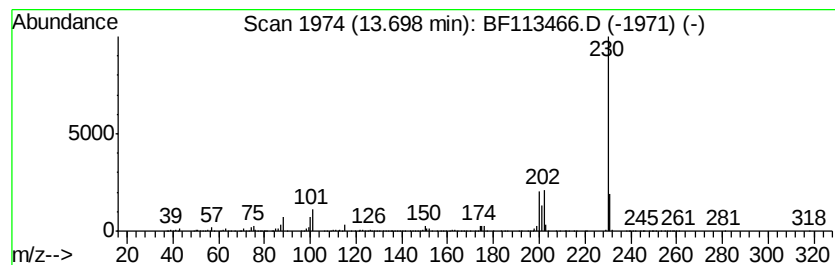
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 7H-Benz[de]anthracen-7-one Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.70	6.02 ng	1307130	Chrysene-d12	13.85

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	94
2		7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
3		6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	72
4		Pyrene, 1,3-dimethyl-	230	C18H14	064401-21-4	59
5		o-Terphenyl	230	C18H14	000084-15-1	59



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040119\
Data File : BF113466.D
Acq On : 1 Apr 2019 15:04
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Sample : K2056-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

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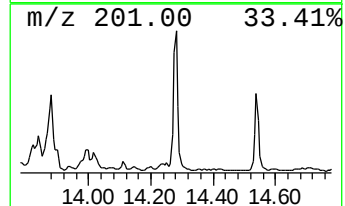
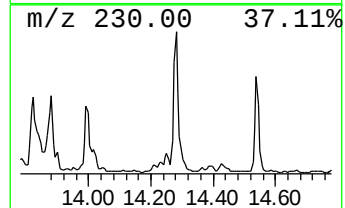
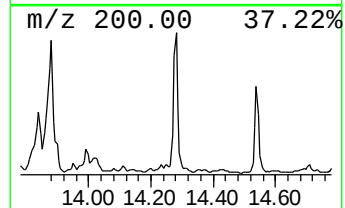
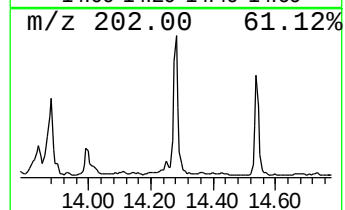
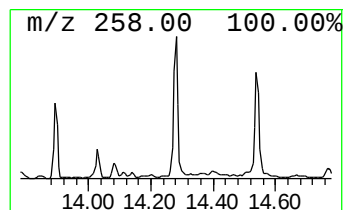
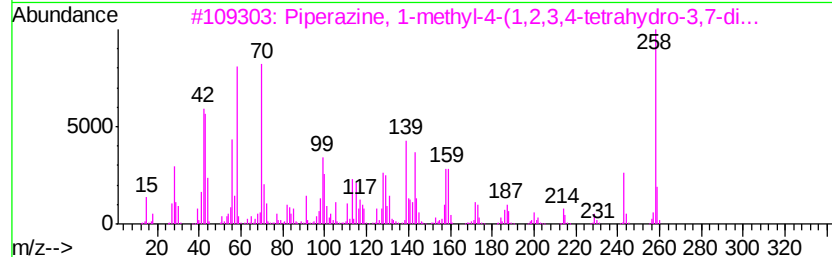
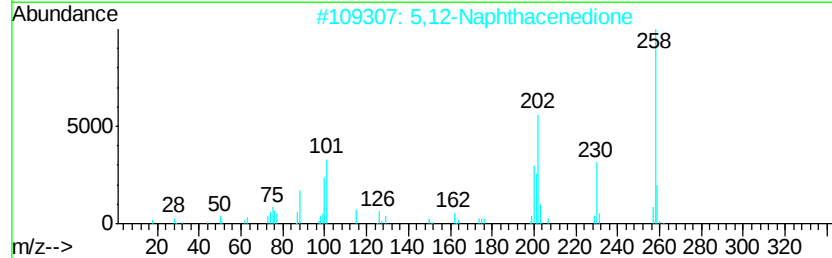
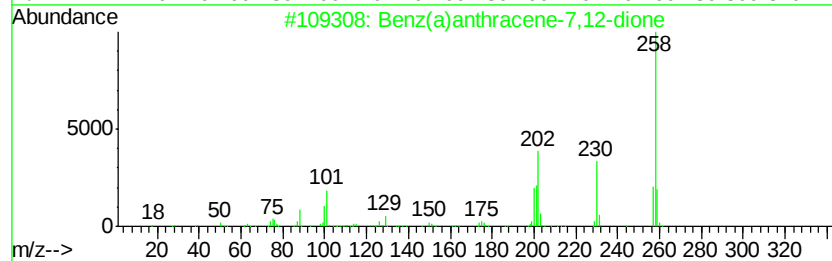
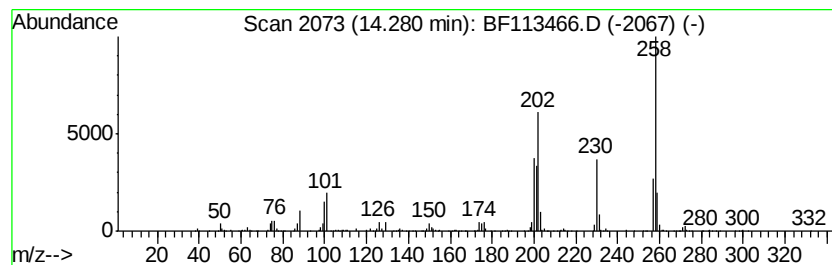
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Benz(a)anthracene-7,12-dione Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.28	5.46 ng	1185440	Chrysene-d12	13.85

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benz(a)anthracene-7,12-dione	258	C18H10O2	002498-66-0	95
2			5,12-Naphthacenedione	258	C18H10O2	001090-13-7	94
3			Piperazine, 1-methyl-4-(1,2,3,4-...	258	C17H26N2	055591-14-5	93
4			Pyrene	202	C16H10	000129-00-0	70
5			1,8-Anthracenedinitrile, 9,10-di...	258	C16H6N2O2	090866-50-5	59



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040119\
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Misc :
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Instrument :
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ClientSampleId :
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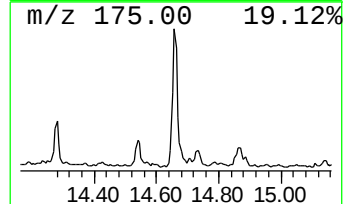
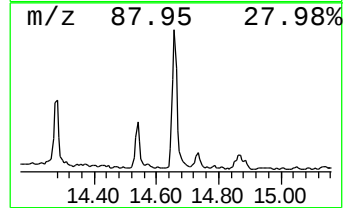
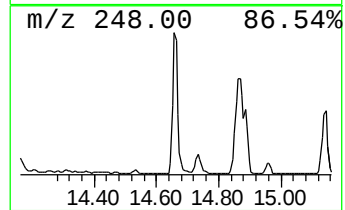
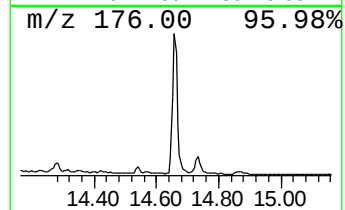
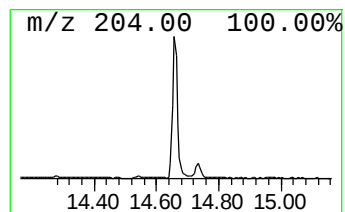
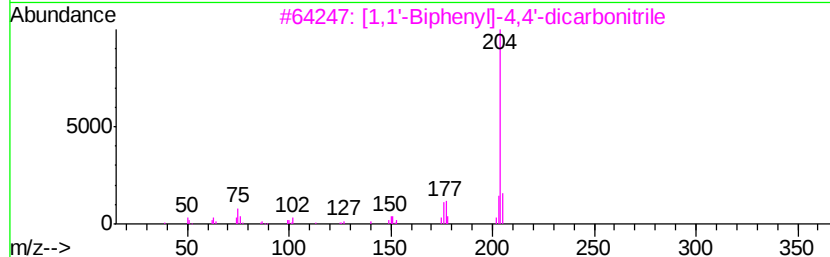
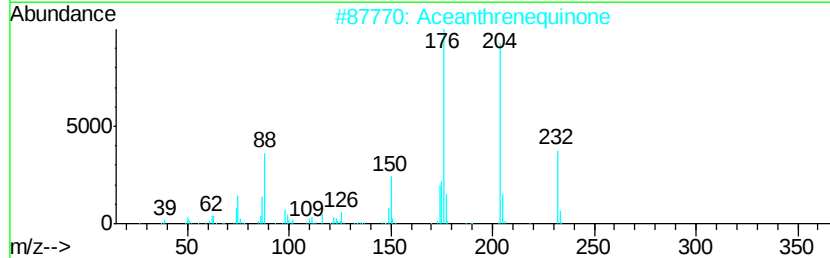
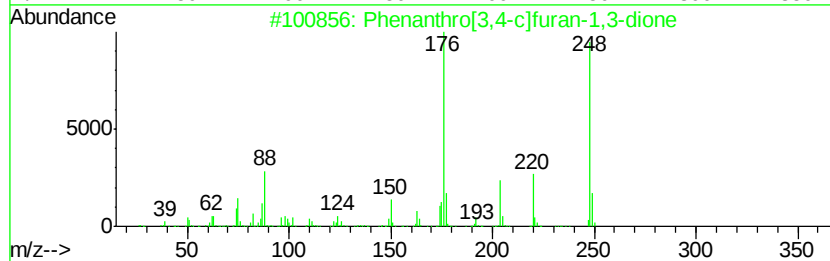
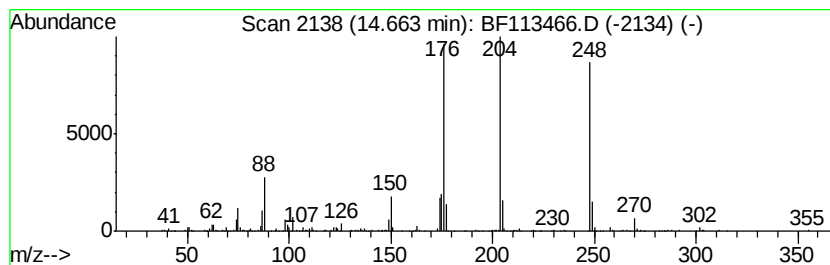
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 Phenanthro[3,4-c]furan-1,3-... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.66	6.61 ng	596965	Perylene-d12	15.26

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthro[3,4-c]furan-1,3-dione	248	C16H8O3	005723-54-6	58
2			Aceanthrenequinone	232	C16H8O2	006373-11-1	53
3			[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	38
4			4-Methyl-6,7-methylenedioxycoumarin	204	C11H8O4	015071-04-2	38
5			3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	38



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040119\
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Misc :
ALS Vial : 9 Sample Multiplier: 1

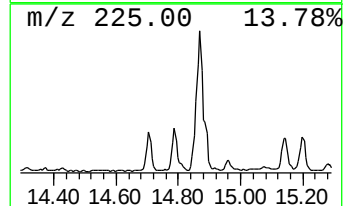
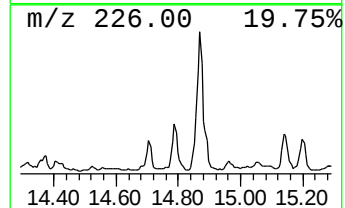
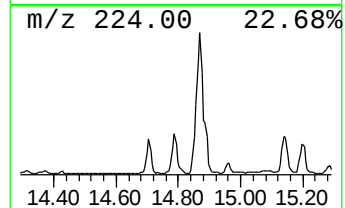
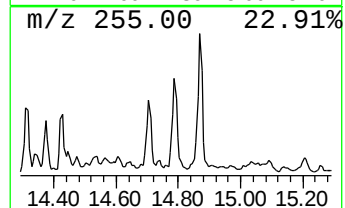
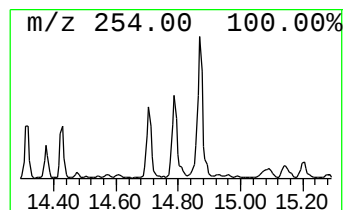
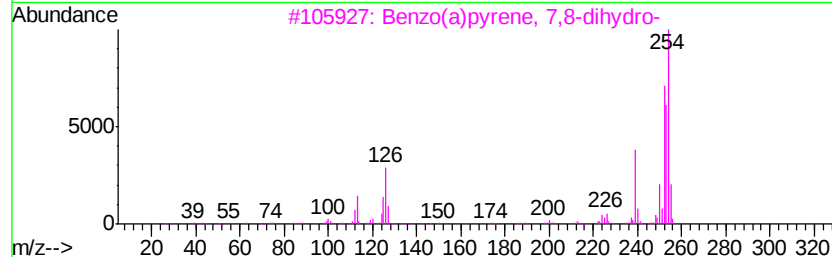
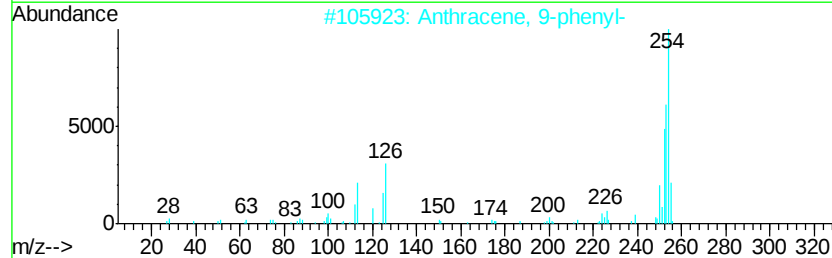
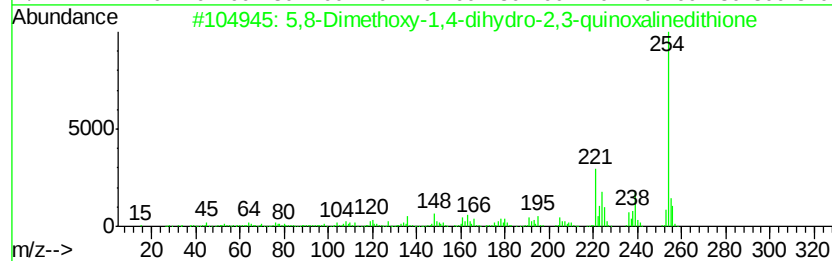
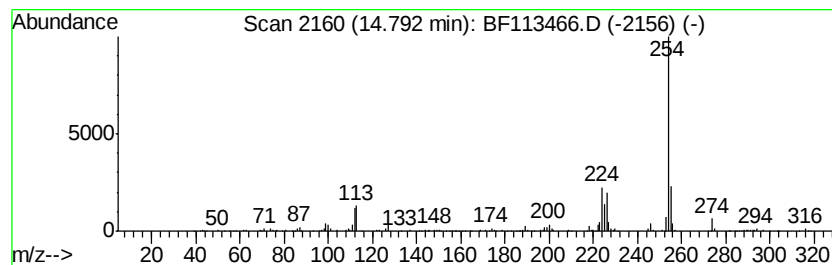
Instrument :
BNA_F
ClientSampleId :
CS-9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 5,8-Dimethoxy-1,4-dihydro-2... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.		
14.79	4.48 ng	404380	Perylene-d12	15.26		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,8-Dimethoxy-1,4-dihydro-2,3-qu...	254	C10H10N2O2S2	001790-96-1	59	
2	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	59	
3	Benzo(a)pyrene, 7,8-dihydro-	254	C20H14	017573-23-8	58	
4	3-Hydroxy-1-methoxyanthraquinone	254	C15H10O4	028504-24-7	53	
5	Phenol, 5-amino-2-(5,7-dimethyl-...	254	C15H14N2O2	1000338-06-4	53	



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040119\
Data File : BF113466.D
Acq On : 1 Apr 2019 15:04
Operator : JU/SJ
Sample : K2056-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CS-9

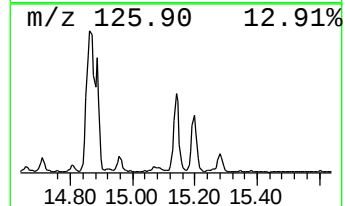
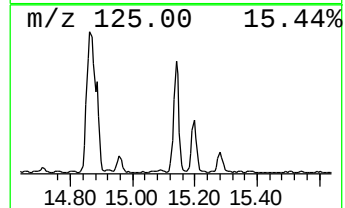
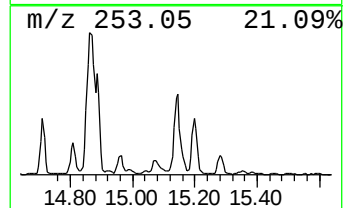
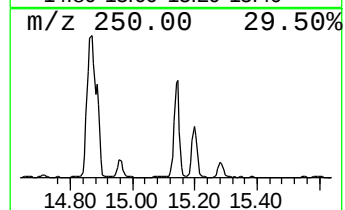
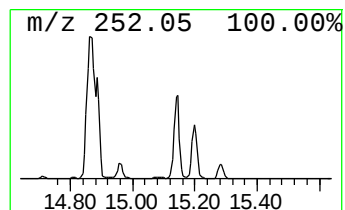
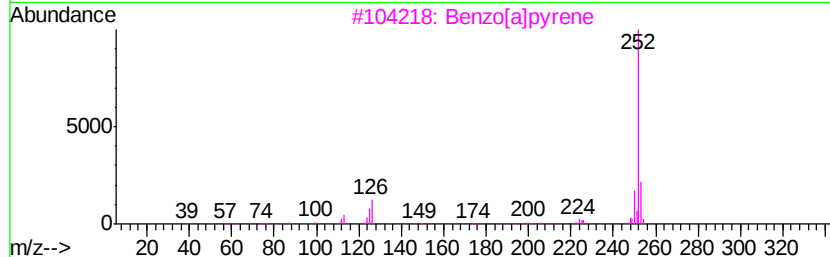
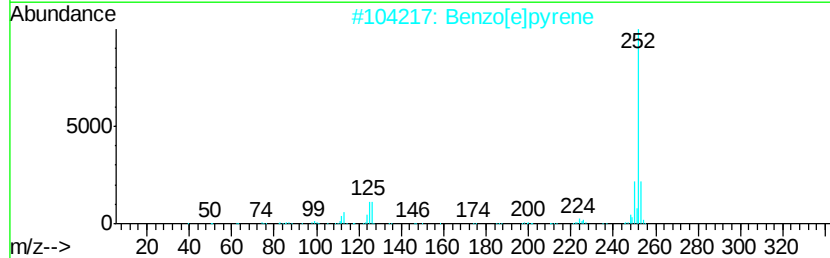
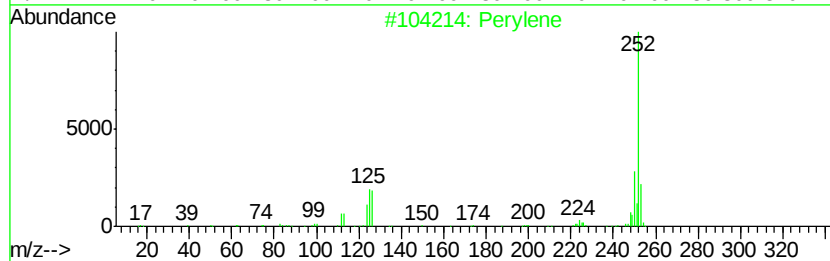
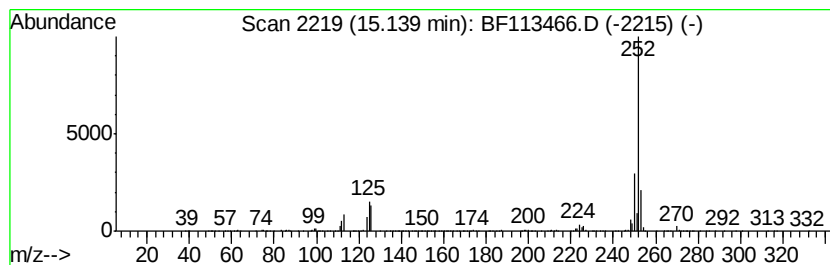
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Perylene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.14	20.01 ng	1806170	Perylene-d12	15.26

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Perylene	252	C20H12	000198-55-0	99
2		Benzo[e]pyrene	252	C20H12	000192-97-2	99
3		Benzo[a]pyrene	252	C20H12	000050-32-8	97
4		Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
5		Benzo[k]fluoranthene	252	C20H12	000207-08-9	93



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040119\
Data File : BF113466.D
Acq On : 1 Apr 2019 15:04
Operator : JU/SJ
Sample : K2056-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CS-9

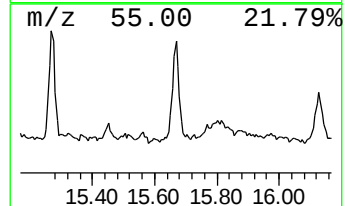
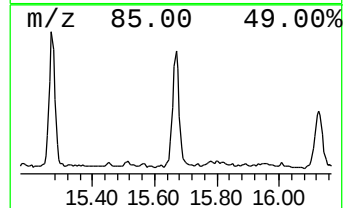
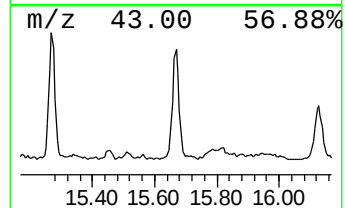
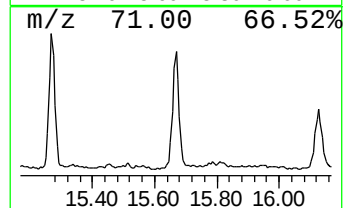
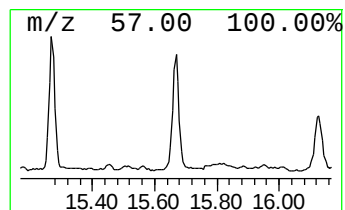
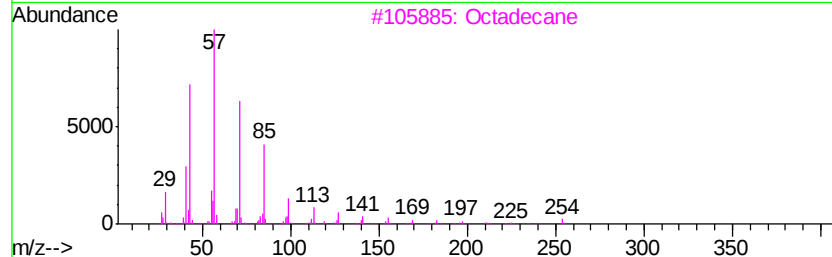
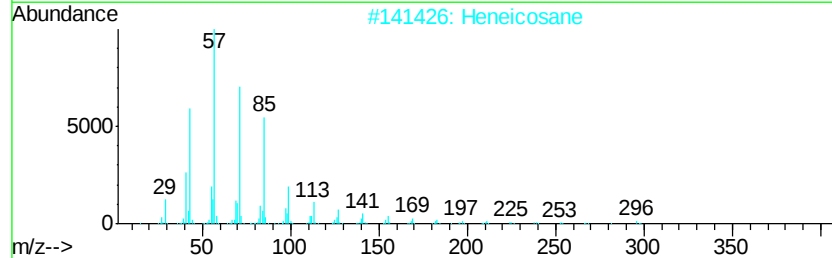
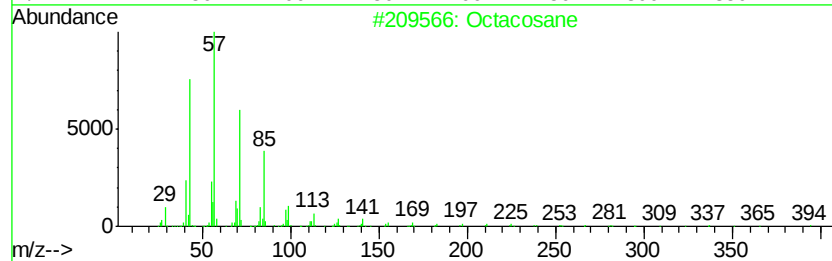
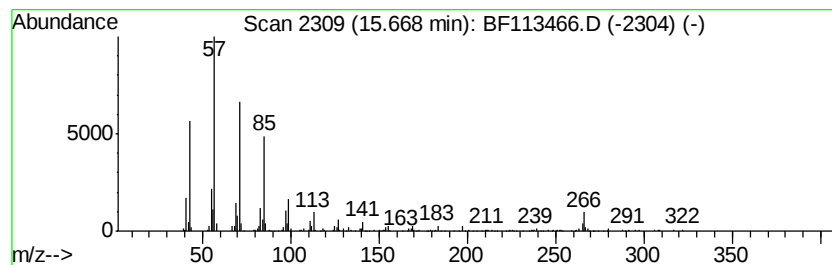
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Octacosane Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.67	3.77 ng	340047	Perylene-d12	15.26

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Octacosane	394	C28H58	000630-02-4	87
2		Heneicosane	296	C21H44	000629-94-7	87
3		Octadecane	254	C18H38	000593-45-3	74
4		Octadecane, 1-iodo-	380	C18H37I	000629-93-6	74
5		Decane, 3,8-dimethyl-	170	C12H26	017312-55-9	74



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040119\
 Data File : BF113466.D
 Acq On : 1 Apr 2019 15:04
 Operator : JU/SJ
 Sample : K2056-03
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CS-9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.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
unknown6.48	6.48	68.0	ng	3154380	1	6.70	927235	20.0
Phenanthrene, 2-m...	11.72	4.7	ng	337057	4	11.22	1429340	20.0
n-Hexadecanoic acid	11.75	13.0	ng	926836	4	11.22	1429340	20.0
4H-Cyclopenta[def...	11.83	8.9	ng	638829	4	11.22	1429340	20.0
Naphthalene, 2-ph...	12.01	4.4	ng	311406	4	11.22	1429340	20.0
9,10-Anthracenedione	12.04	16.9	ng	1205960	4	11.22	1429340	20.0
Naphthalic anhydride	12.30	6.4	ng	460230	4	11.22	1429340	20.0
Cyclopenta(def)ph...	12.36	12.2	ng	872892	4	11.22	1429340	20.0
Octadecanoic acid	12.54	6.5	ng	1416040	5	13.85	4341320	20.0
11H-Benzo[a]fluor...	13.49	6.3	ng	1375060	5	13.85	4341320	20.0
Anthra(1,2-b)thio...	13.60	5.5	ng	1182500	5	13.85	4341320	20.0
Cyclopenta(cd)pyr...	13.62	3.5	ng	767671	5	13.85	4341320	20.0
Cyclopenta[cd]pyrene	13.65	5.9	ng	1272100	5	13.85	4341320	20.0
7H-Benz[de]anthra...	13.70	6.0	ng	1307130	5	13.85	4341320	20.0
Benz(a)anthracene...	14.28	5.5	ng	1185440	5	13.85	4341320	20.0
Phenanthro[3,4-c]...	14.66	6.6	ng	596965	6	15.26	1805620	20.0
5,8-Dimethoxy-1,4...	14.79	4.5	ng	404380	6	15.26	1805620	20.0
Perylene	15.14	20.0	ng	1806170	6	15.26	1805620	20.0
Octacosane	15.67	3.8	ng	340047	6	15.26	1805620	20.0