

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF073119\
 Data File : BF115886.D
 Acq On : 1 Aug 2019 00:19
 Operator : HP/JU
 Sample : K4049-03 2X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-3

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-BF073019.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.904	300	309	325	rBV	278851	390279	6.43%	0.542%
2	5.469	571	575	597	rBV	1269692	1208084	19.89%	1.679%
3	6.481	743	747	758	rBV	1494455	1379124	22.71%	1.916%
4	6.622	767	771	779	rVB	1613898	1341499	22.09%	1.864%
5	6.851	807	810	819	rBV	927596	750312	12.35%	1.043%
6	7.010	833	837	844	rBV	1192562	1033547	17.02%	1.436%
7	7.410	901	905	917	rBV	859306	767848	12.64%	1.067%
8	8.133	1024	1028	1030	rBV	1180939	930523	15.32%	1.293%
9	8.151	1030	1031	1037	rVB	175232	153823	2.53%	0.214%
10	8.851	1147	1150	1157	rBV	122903	108646	1.79%	0.151%
11	8.910	1157	1160	1164	rBV	61744	87587	1.44%	0.122%
12	8.945	1164	1166	1174	rVB	137324	141497	2.33%	0.197%
13	9.210	1207	1211	1220	rBV	1740982	1355530	22.32%	1.884%
14	9.480	1252	1257	1261	rBV	65521	89228	1.47%	0.124%
15	9.551	1265	1269	1271	rBV	162662	149334	2.46%	0.208%
16	9.604	1276	1278	1285	rVV	167434	136945	2.25%	0.190%
17	9.669	1285	1289	1294	rVV	83488	94240	1.55%	0.131%
18	9.751	1300	1303	1307	rVB	228119	191376	3.15%	0.266%
19	9.892	1324	1327	1330	rVB	1224746	991229	16.32%	1.377%
20	9.922	1330	1332	1336	rVB	535336	486405	8.01%	0.676%
21	10.051	1349	1354	1358	rBV2	95880	106841	1.76%	0.148%
22	10.098	1358	1362	1366	rBV	323044	291678	4.80%	0.405%
23	10.298	1392	1396	1398	rBV2	69218	83928	1.38%	0.117%
24	10.439	1417	1420	1425	rBV	485784	429874	7.08%	0.597%
25	10.598	1444	1447	1452	rVB	168698	160634	2.64%	0.223%
26	10.680	1458	1461	1466	rBV	1059892	966132	15.91%	1.343%
27	10.810	1478	1483	1486	rBV2	91014	90051	1.48%	0.125%
28	10.986	1507	1513	1516	rBV3	135162	228589	3.76%	0.318%
29	11.016	1516	1518	1521	rVV2	100146	96508	1.59%	0.134%
30	11.116	1530	1535	1537	rBV3	106639	135562	2.23%	0.188%
31	11.139	1537	1539	1541	rVV	115129	100678	1.66%	0.140%
32	11.186	1544	1547	1551	rVV	387850	345346	5.69%	0.480%
33	11.239	1551	1556	1559	rVV3	140726	214673	3.53%	0.298%
34	11.274	1559	1562	1568	rVB	301914	305484	5.03%	0.424%

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Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
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35	11.380	1576	1580	1582	rBV	976925	1005055	16.55%	1.397%
36	11.410	1582	1585	1588	rVV	4525982	4710389	77.56%	6.545%
37	11.457	1590	1593	1596	rVV	1260106	1013422	16.69%	1.408%
38	11.492	1596	1599	1602	rVV2	90316	96923	1.60%	0.135%
39	11.610	1614	1619	1622	rBV2	413275	423982	6.98%	0.589%
40	11.674	1627	1630	1634	rVV	247692	221365	3.64%	0.308%
41	11.716	1634	1637	1641	rVB3	161093	168801	2.78%	0.235%
42	11.839	1655	1658	1660	rBV	115136	98424	1.62%	0.137%
43	11.886	1662	1666	1668	rVV	860873	836297	13.77%	1.162%
44	11.910	1668	1670	1674	rVV	1230149	1113891	18.34%	1.548%
45	11.957	1676	1678	1681	rVB	334585	261827	4.31%	0.364%
46	11.998	1681	1685	1687	rBV2	1104079	1241080	20.44%	1.725%
47	12.016	1687	1688	1692	rVB	637445	469017	7.72%	0.652%
48	12.063	1693	1696	1698	rBV3	79883	88212	1.45%	0.123%
49	12.180	1712	1716	1718	rBV	608855	564487	9.29%	0.784%
50	12.204	1718	1720	1726	rVB	726890	624629	10.29%	0.868%
51	12.251	1726	1728	1733	rVB	121992	99164	1.63%	0.138%
52	12.327	1736	1741	1744	rBV	300567	333840	5.50%	0.464%
53	12.357	1744	1746	1749	rBV	155081	138520	2.28%	0.192%
54	12.386	1749	1751	1753	rVB	152407	121679	2.00%	0.169%
55	12.433	1755	1759	1762	rBV	459988	546852	9.00%	0.760%
56	12.468	1762	1765	1768	rVB3	177915	203665	3.35%	0.283%
57	12.521	1771	1774	1779	rBV	443001	505415	8.32%	0.702%
58	12.604	1783	1788	1791	rBV	4552360	5117692	84.27%	7.111%
59	12.663	1796	1798	1801	rVB2	172073	141585	2.33%	0.197%
60	12.692	1801	1803	1806	rBV	191152	154054	2.54%	0.214%
61	12.733	1806	1810	1811	rBV3	204823	219760	3.62%	0.305%
62	12.833	1821	1827	1832	rBV	4420775	6073159	100.00%	8.439%
63	12.874	1832	1834	1839	rVB2	265326	305932	5.04%	0.425%
64	12.945	1843	1846	1847	rVV	308311	283133	4.66%	0.393%
65	12.963	1847	1849	1851	rVV	1314078	1099267	18.10%	1.528%
66	12.986	1851	1853	1857	rVB	306975	285241	4.70%	0.396%
67	13.045	1858	1863	1866	rBV2	460885	695440	11.45%	0.966%
68	13.127	1874	1877	1879	rBV4	338709	399104	6.57%	0.555%
69	13.151	1879	1881	1884	rVB	648321	595727	9.81%	0.828%
70	13.198	1884	1889	1890	rBV3	90165	133183	2.19%	0.185%
71	13.221	1890	1893	1895	rVV	260144	206898	3.41%	0.288%

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72	13.257	1895	1899	1902	rVV2	673515	696494	11.47%	0.968%
73	13.315	1906	1909	1912	rBV2	99814	91285	1.50%	0.127%
74	13.351	1912	1915	1918	rBV	413346	347294	5.72%	0.483%
75	13.380	1918	1920	1923	rVB	440622	378023	6.22%	0.525%
76	13.527	1942	1945	1949	rBV3	303650	387127	6.37%	0.538%
77	13.663	1965	1968	1973	rVB	630614	579776	9.55%	0.806%
78	13.774	1983	1987	1989	rBV2	520956	599951	9.88%	0.834%
79	13.798	1989	1991	1994	rVV	565932	573848	9.45%	0.797%
80	13.827	1994	1996	2001	rVV2	463042	653641	10.76%	0.908%
81	13.874	2001	2004	2011	rVB	668206	749408	12.34%	1.041%
82	14.004	2022	2026	2027	rBV	2340160	2587933	42.61%	3.596%
83	14.021	2027	2029	2032	rVV2	2706356	3259348	53.67%	4.529%
84	14.057	2032	2035	2038	rVB	2582965	2343377	38.59%	3.256%
85	14.133	2045	2048	2052	rVB	314133	256713	4.23%	0.357%
86	14.251	2064	2068	2071	rBV3	197537	264222	4.35%	0.367%
87	14.286	2071	2074	2076	rBV2	122034	123970	2.04%	0.172%
88	14.374	2087	2089	2091	rBV2	165417	134839	2.22%	0.187%
89	14.410	2091	2095	2098	rVV	564314	630668	10.38%	0.876%
90	14.445	2099	2101	2105	rVB2	287506	266278	4.38%	0.370%
91	14.539	2114	2117	2119	rBV	278437	281548	4.64%	0.391%
92	14.868	2171	2173	2176	rBV2	135686	130745	2.15%	0.182%
93	15.074	2203	2208	2215	rBV	1720335	3515934	57.89%	4.886%
94	15.180	2223	2226	2229	rVB	303037	305760	5.03%	0.425%
95	15.374	2255	2259	2265	rVB	1066978	1462607	24.08%	2.032%
96	15.445	2266	2271	2275	rVV	1451949	1887054	31.07%	2.622%
97	15.504	2277	2281	2283	rVV	648634	852332	14.03%	1.184%
98	15.533	2283	2286	2293	rVB2	429060	566512	9.33%	0.787%
99	16.980	2526	2532	2539	rVB2	577472	1136404	18.71%	1.579%
100	17.427	2602	2608	2619	rVB	467896	961279	15.83%	1.336%

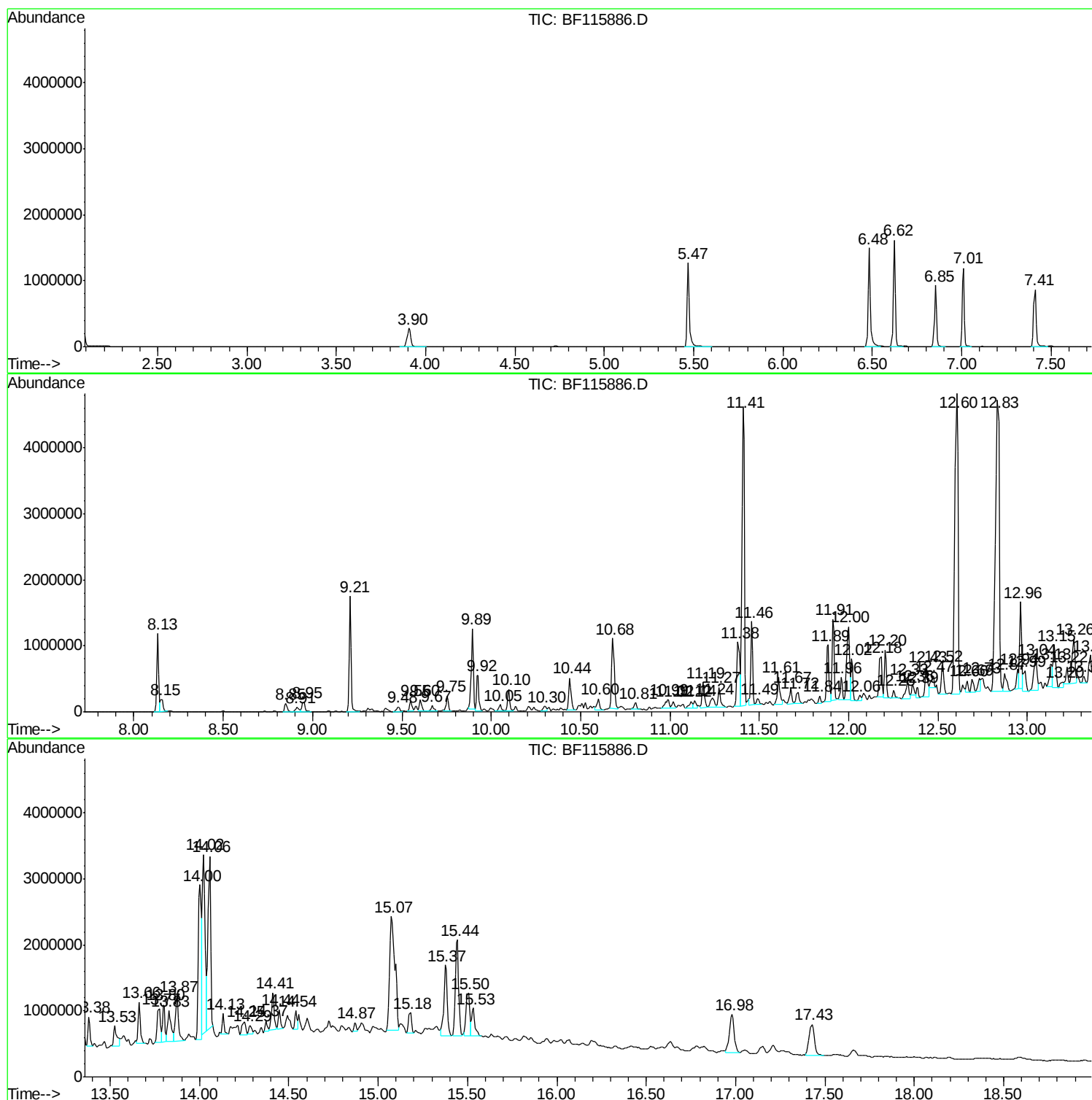
Sum of corrected areas: 71964515

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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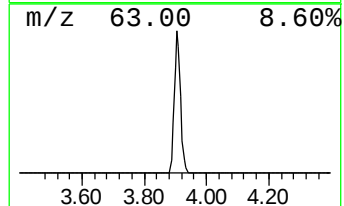
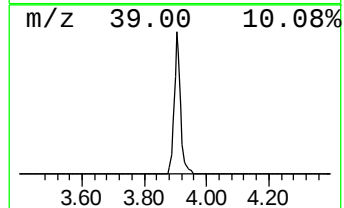
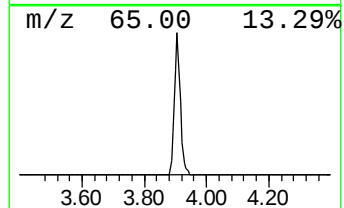
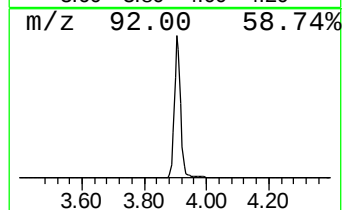
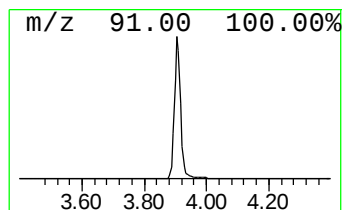
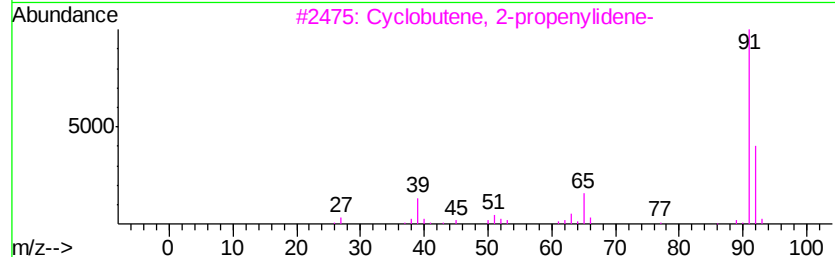
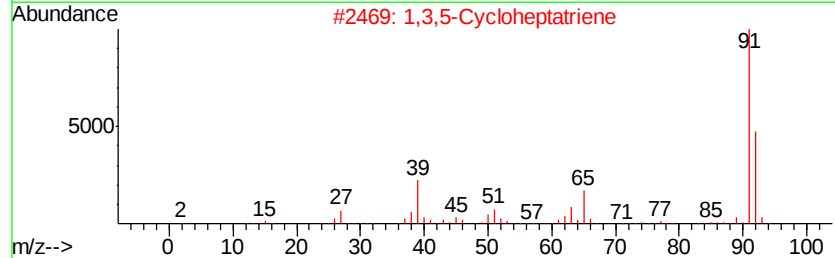
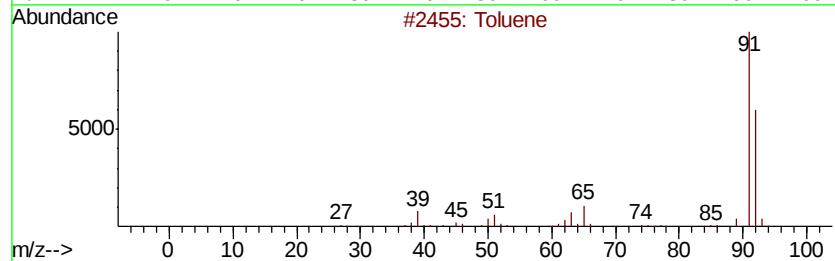
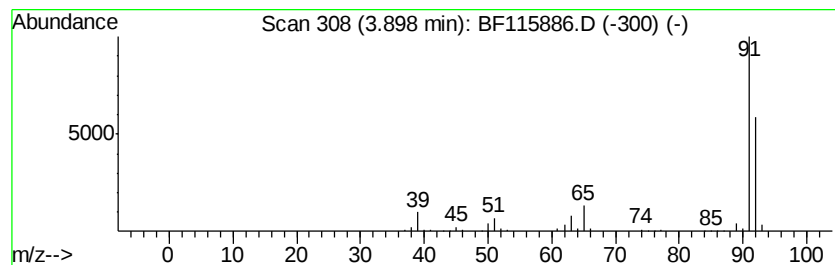
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 1,3,5-Cycloheptatriene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.	
3.90	10.40 ng	390279	1,4-Dichlorobenzene-d4	6.85	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Toluene	92	C7H8	000108-88-3	95
2	1,3,5-Cycloheptatriene	92	C7H8	000544-25-2	90
3	Cyclobutene, 2-propenylidene-	92	C7H8	052097-85-5	78
4	2,5-Norbornadiene	92	C7H8	000121-46-0	64
5	Tetracyclo[3.2.0.0(2,7).0(4,6)]h...	92	C7H8	000278-06-8	59



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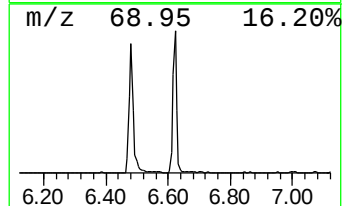
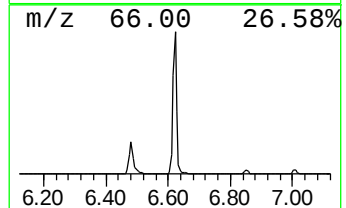
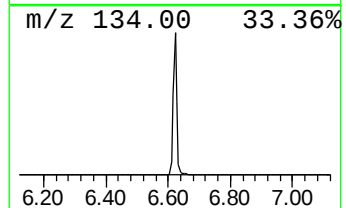
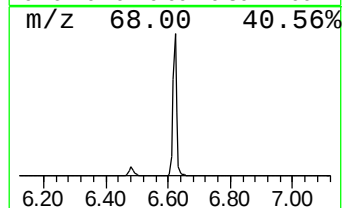
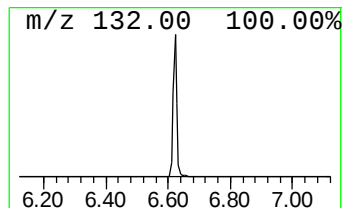
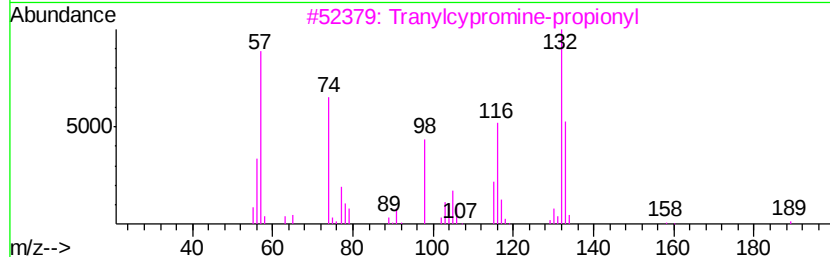
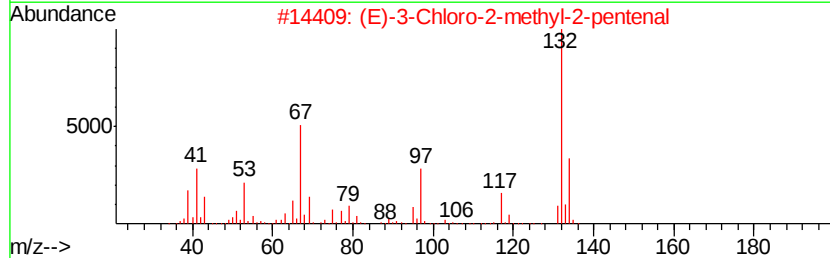
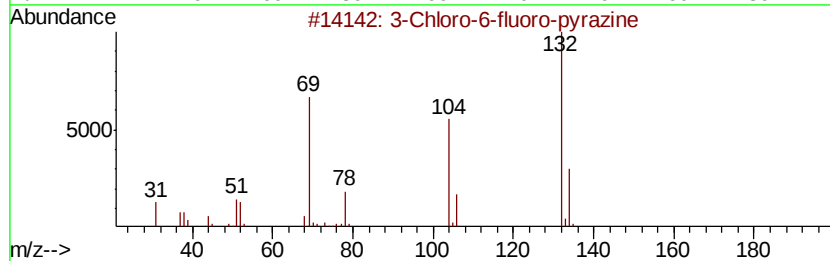
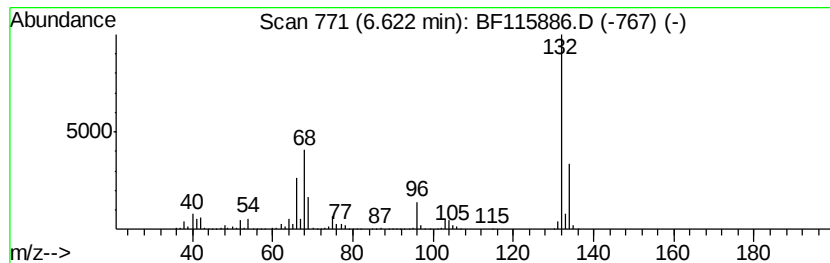
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 unknown6.62 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.62	35.76 ng	1341500	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	27
2		(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	12
3		Tranvlcyproline-propionyl	189	C12H15NO	1000123-86-3	12
4		Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
5		Benzene, 1-ethenyl-3,5-dimethyl-	132	C10H12	005379-20-4	9



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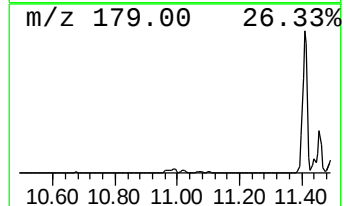
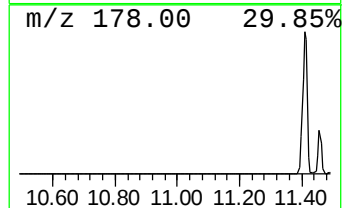
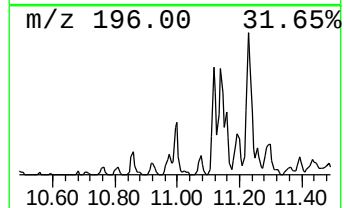
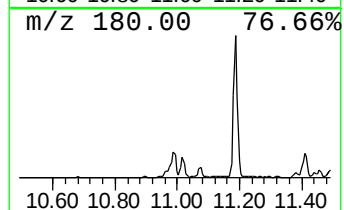
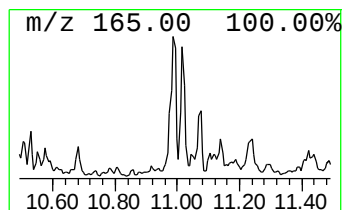
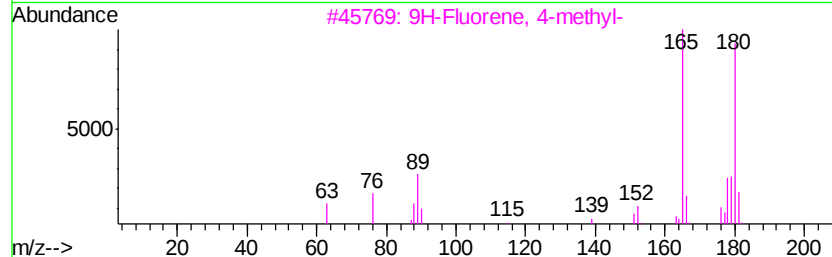
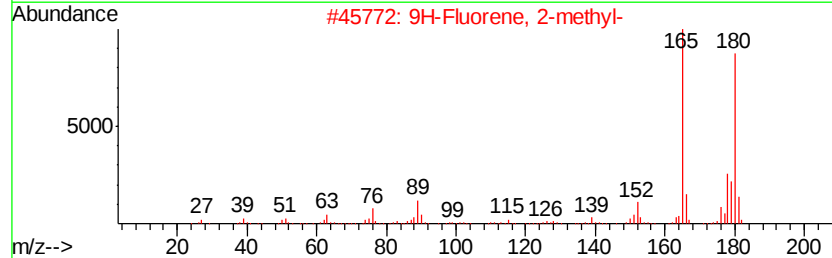
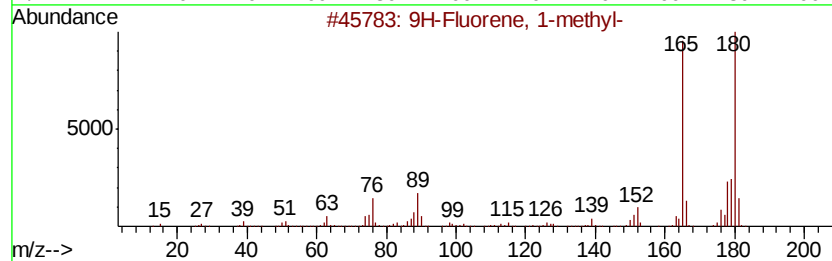
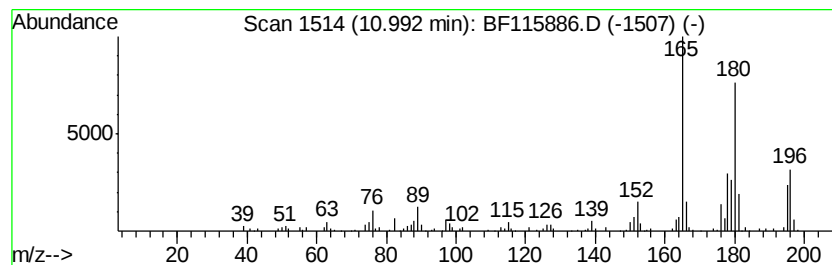
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 9H-Fluorene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD		R.T.	
10.99	4.55 ng	228589	Phenanthrene-d10		11.38	
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-		180	C14H12	001730-37-6	97
2	9H-Fluorene, 2-methyl-		180	C14H12	001430-97-3	97
3	9H-Fluorene, 4-methyl-		180	C14H12	001556-99-6	91
4	9H-Fluorene, 9-methyl-		180	C14H12	002523-37-7	91
5	9H-Fluorene, 3-methyl-		180	C14H12	002523-39-9	90



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115886.D
Acq On : 1 Aug 2019 00:19
Operator : HP/JU
Sample : K4049-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

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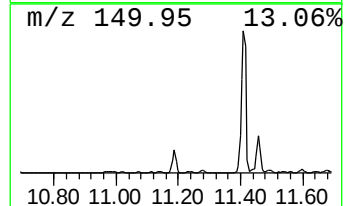
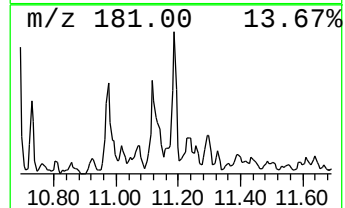
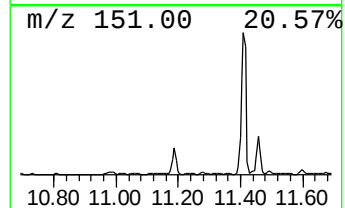
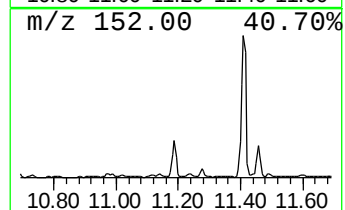
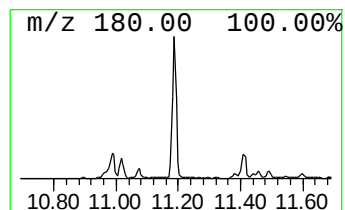
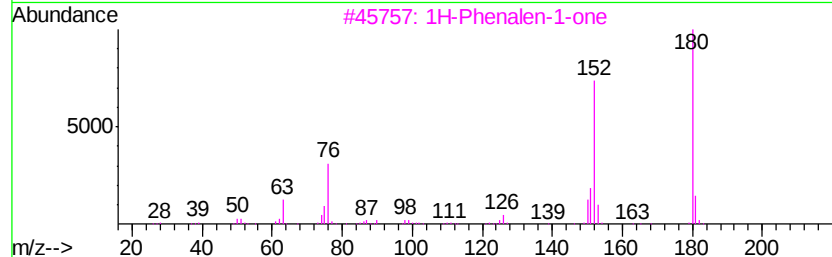
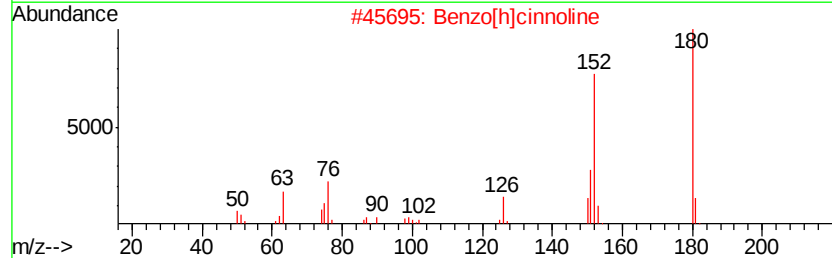
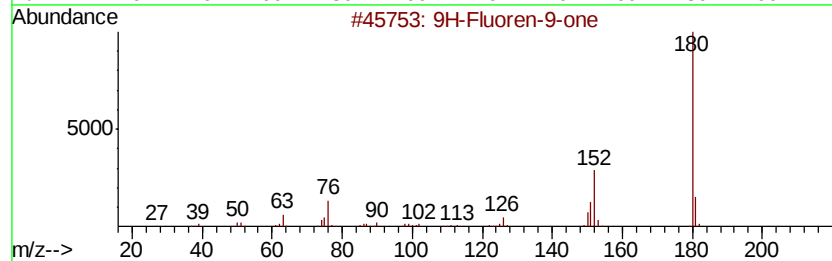
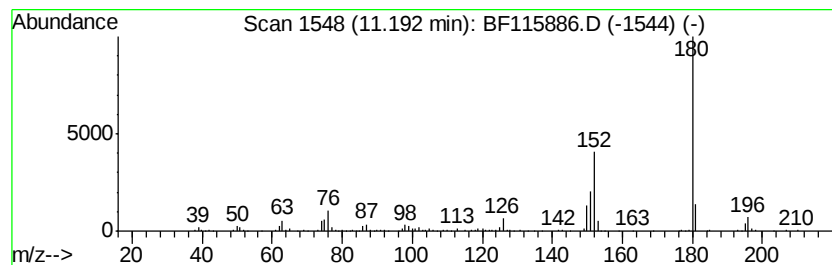
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 9H-Fluoren-9-one Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.19	6.87 ng	345346	Phenanthrene-d10	11.38

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		9H-Fluoren-9-one	180	C13H8O	000486-25-9	97
2		Benzo[h]cinnoline	180	C12H8N2	000230-31-9	87
3		1H-Phenalen-1-one	180	C13H8O	000548-39-0	58
4		2,4-Diazaphenanthrene	180	C12H8N2	000230-28-4	46
5		2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	45



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
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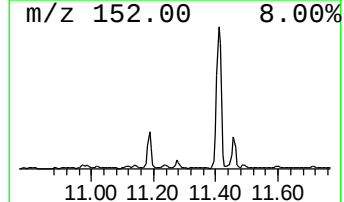
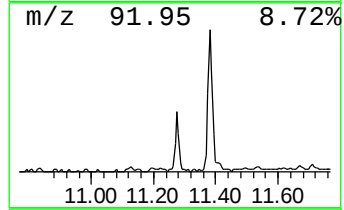
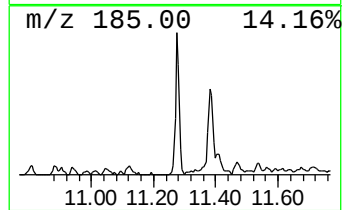
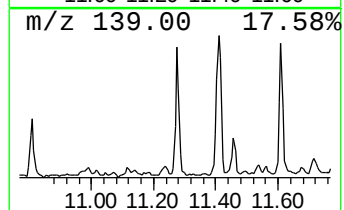
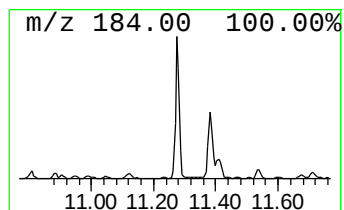
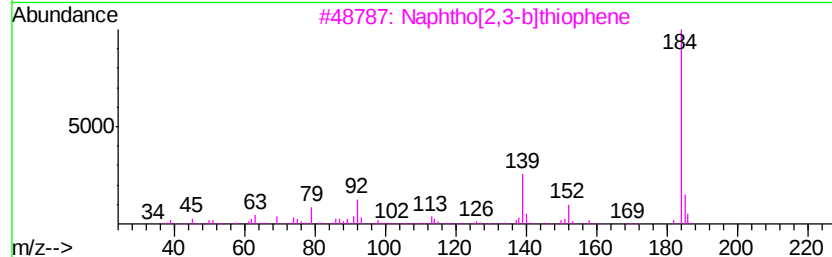
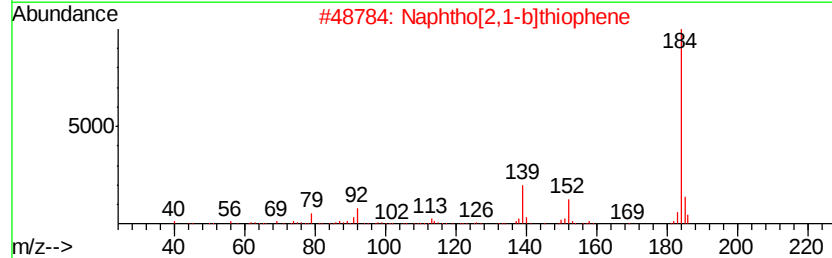
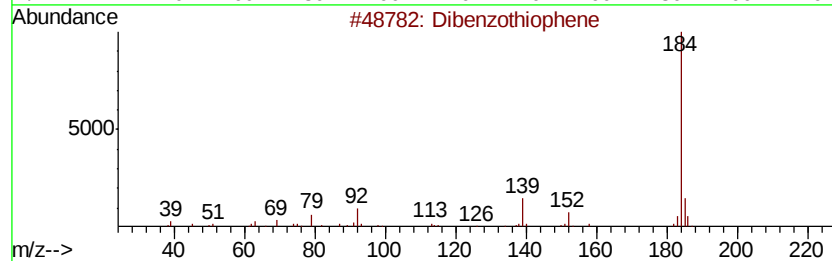
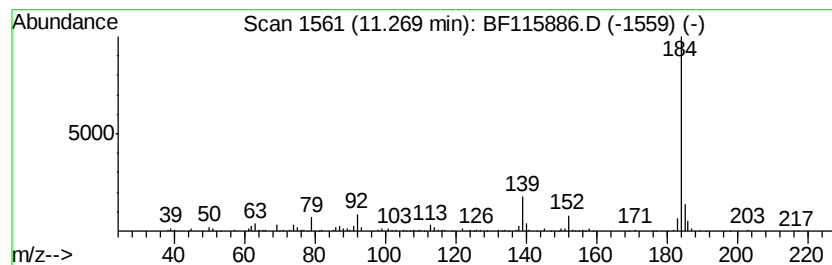
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Dibenzothiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.27	6.08 ng	305484	Phenanthrene-d10	11.38	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	90
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115886.D
Acq On : 1 Aug 2019 00:19
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Sample : K4049-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

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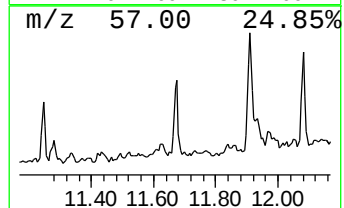
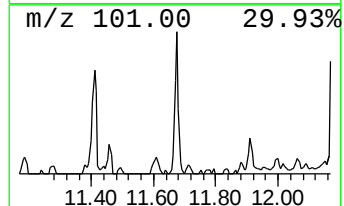
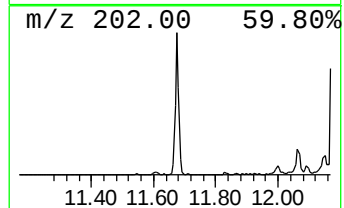
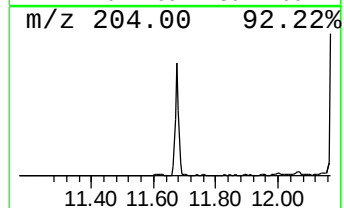
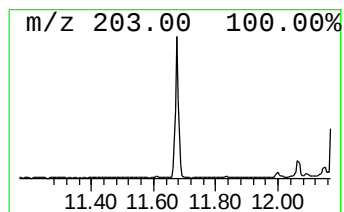
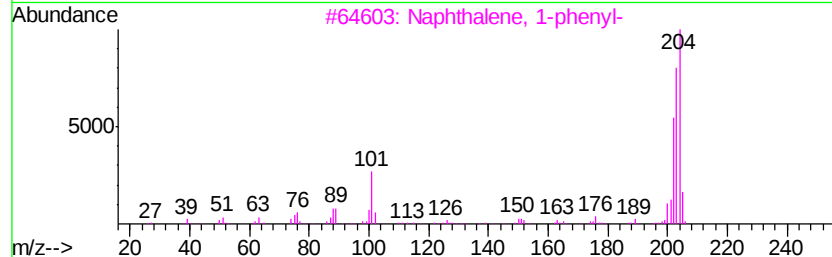
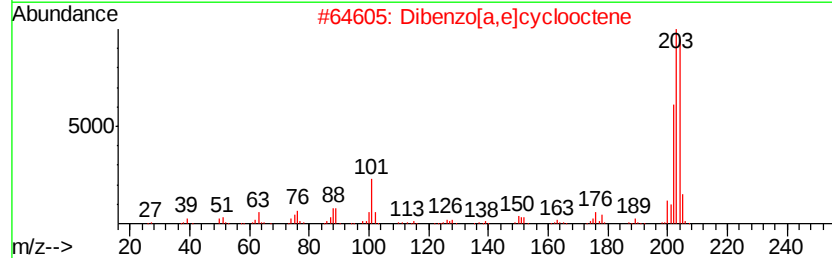
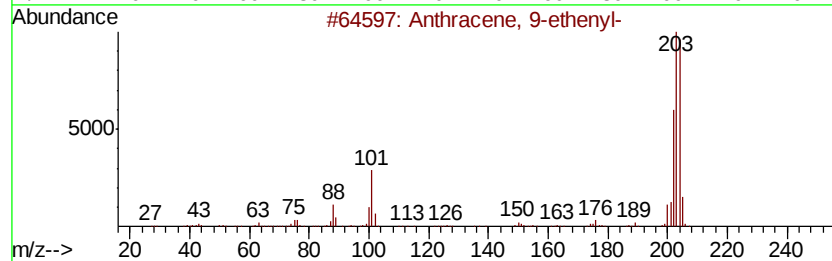
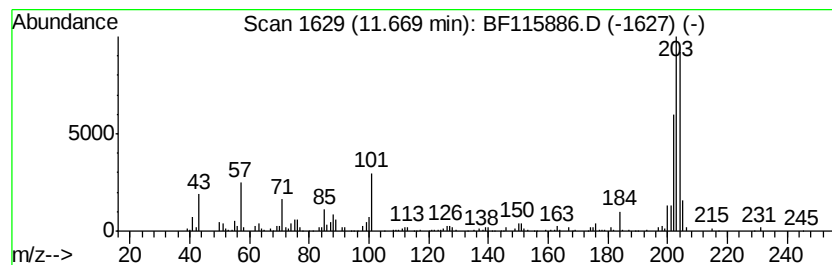
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Anthracene, 9-ethenyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.67	4.41 ng	221365	Phenanthrene-d10	11.38

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	94
2			Dibenzo[a,e]cyclooctene	204	C16H12	000262-89-5	93
3			Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	78
4			Cyclobuta[1'',2'':3,4:3'',4'':3'...	204	C16H12	006574-36-3	68
5			Pyrene, 4,5-dihydro-	204	C16H12	006628-98-4	68



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
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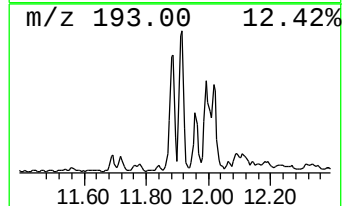
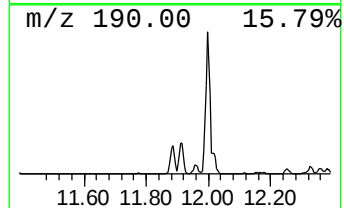
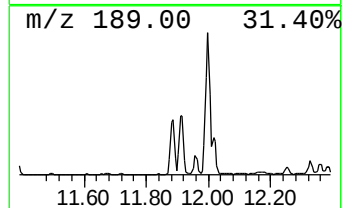
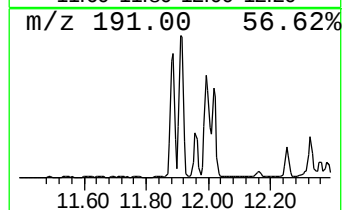
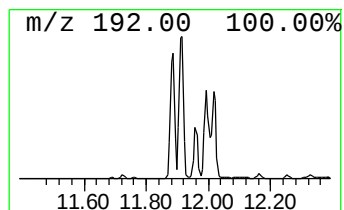
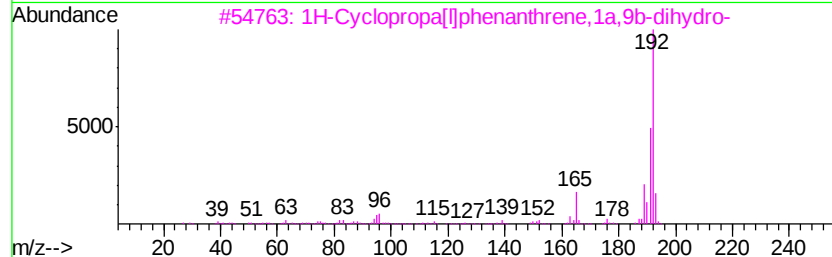
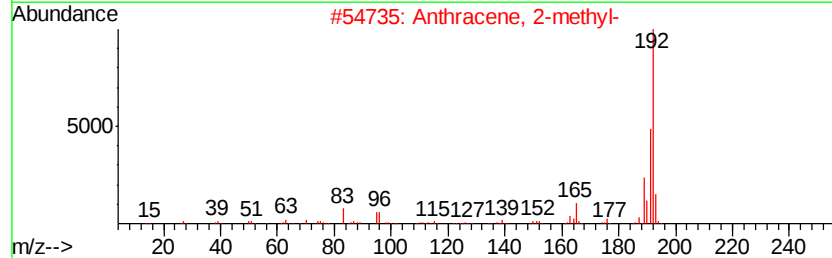
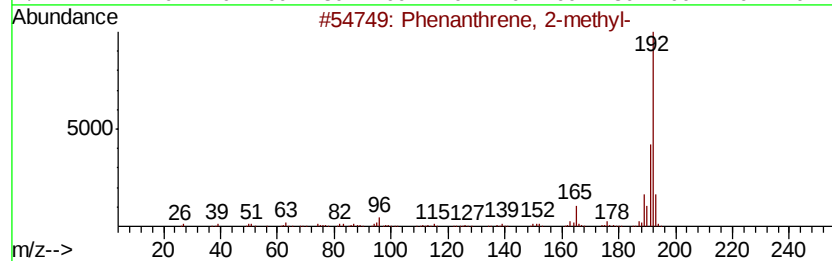
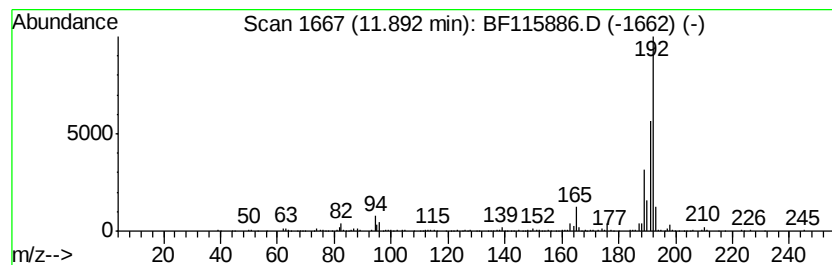
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.89	16.64 ng	836297	Phenanthrene-d10	11.38	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
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Instrument :
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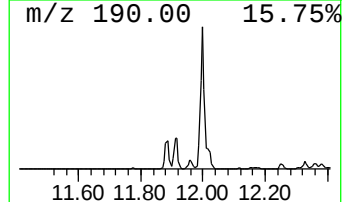
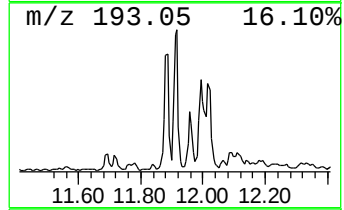
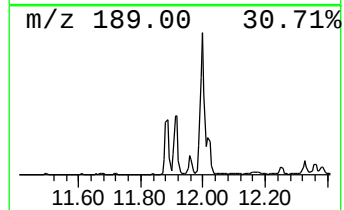
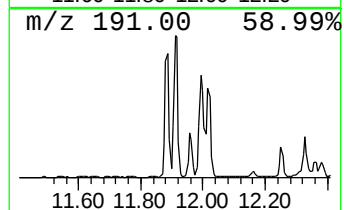
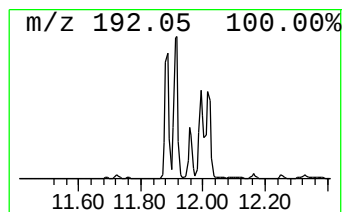
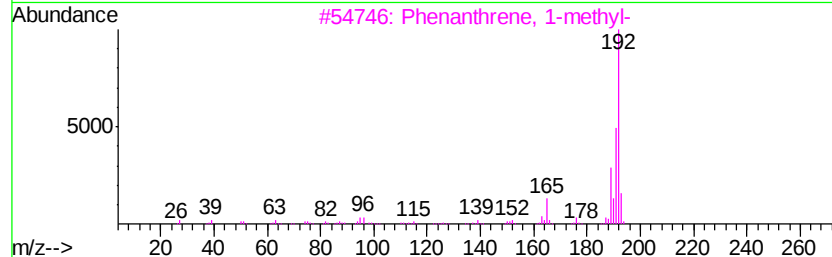
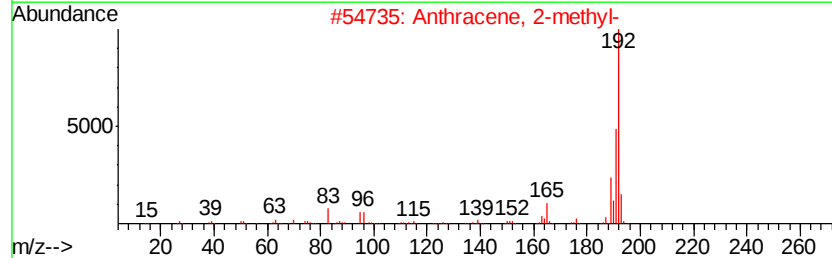
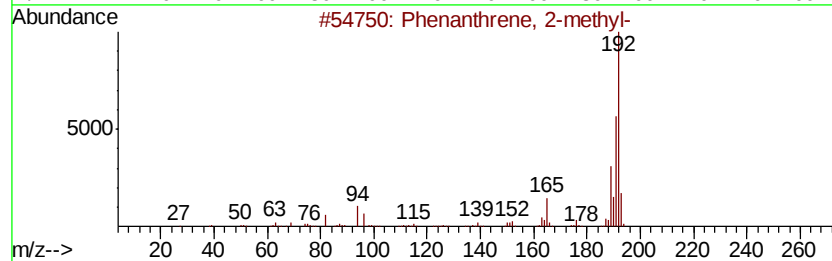
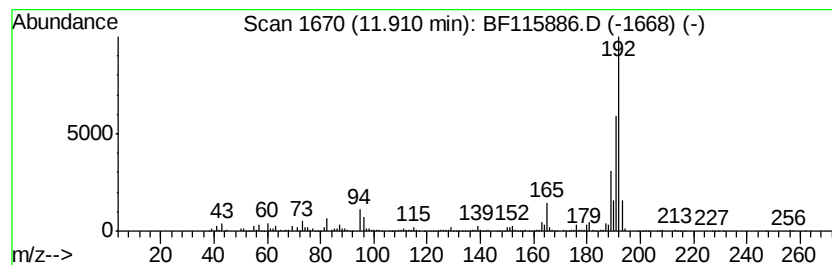
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.91	22.17 ng	1113890	Phenanthrene-d10	11.38

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2		Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4		1H-Cyclopropa[1,1]phenanthrene, 1a,...	192	C15H12	000949-41-7	96
5		5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	94



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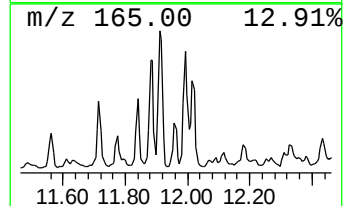
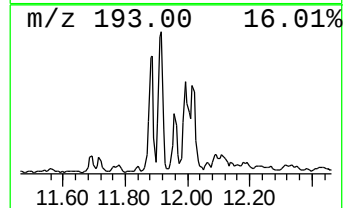
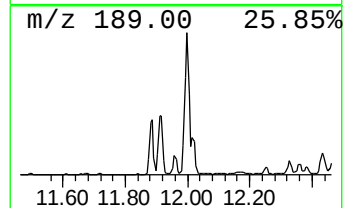
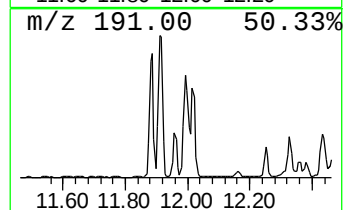
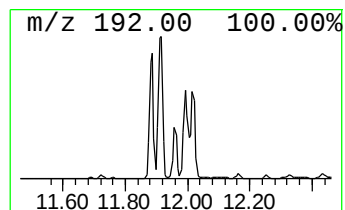
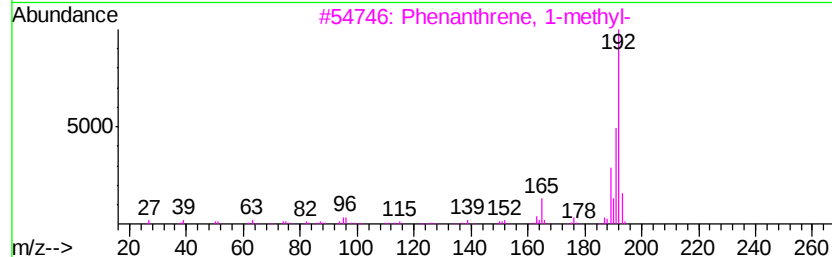
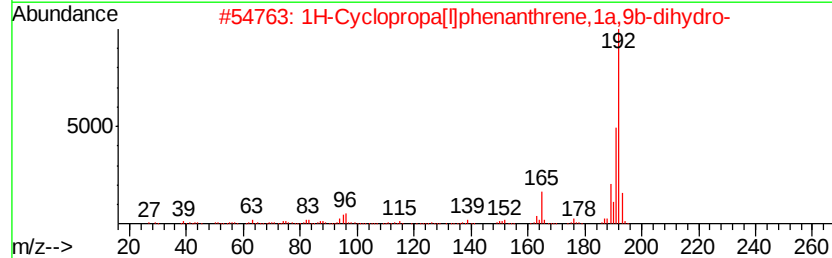
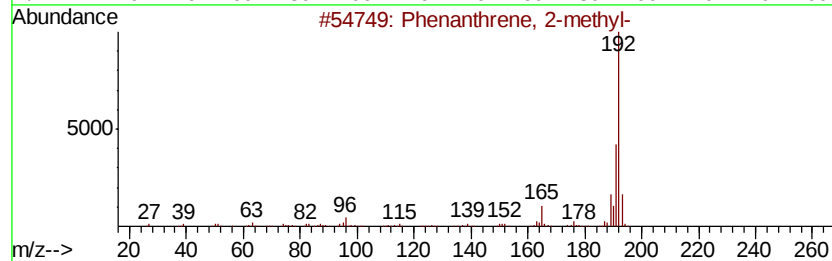
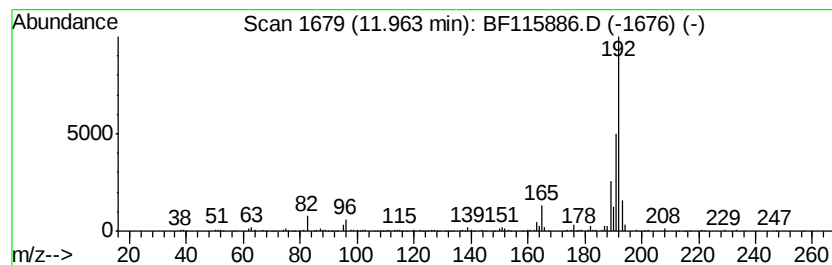
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Anthracene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	5.21 ng	261827	Phenanthrene-d10	11.38

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2		1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	97
3		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4		Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5		Phenanthrene, 9-methyl-	192	C15H12	000883-20-5	94



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115886.D
Acq On : 1 Aug 2019 00:19
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Sample : K4049-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SP-3

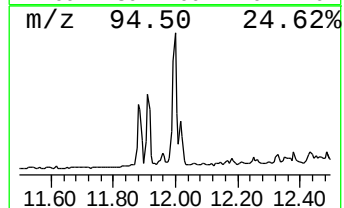
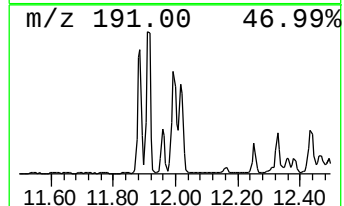
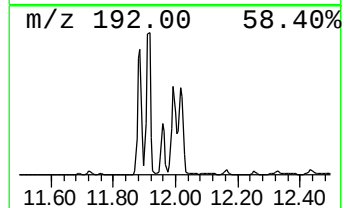
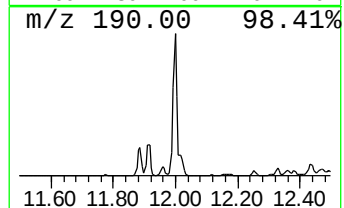
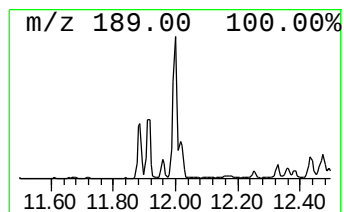
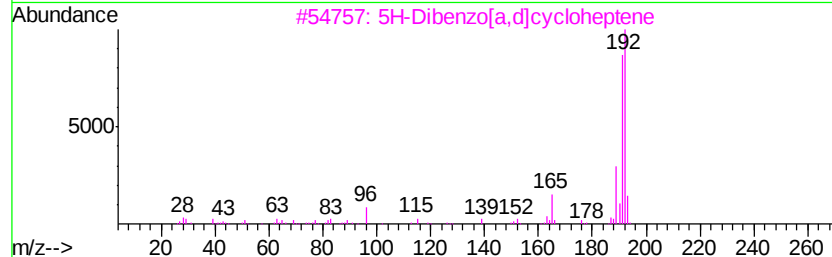
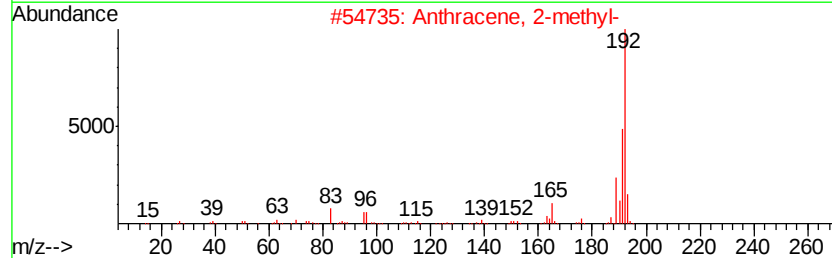
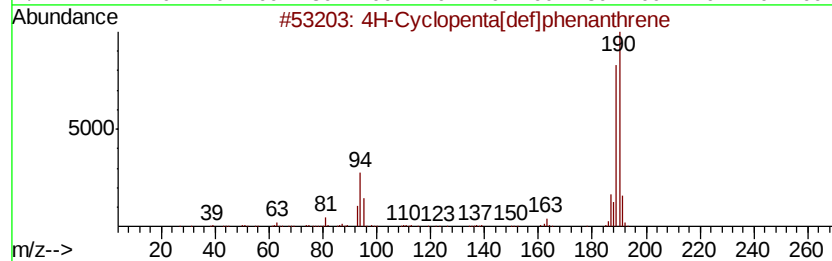
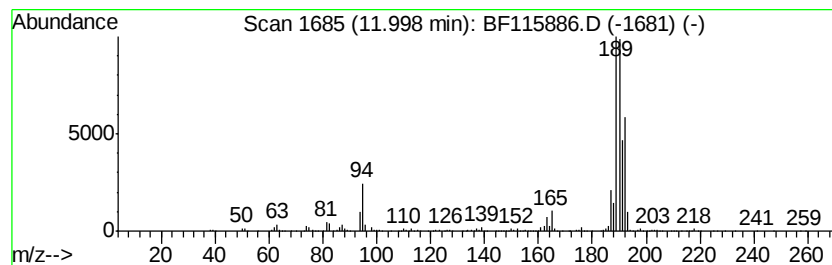
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	24.70 ng	1241080	Phenanthrene-d10	11.38

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	92
2		Anthracene, 2-methyl-	192	C15H12	000613-12-7	25
3		5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	25
4		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	25
5		Benzene, 1,1'-(1,2-propadienyld...	192	C15H12	014251-57-1	22



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115886.D
Acq On : 1 Aug 2019 00:19
Operator : HP/JU
Sample : K4049-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

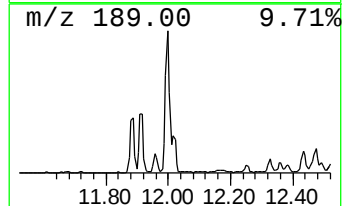
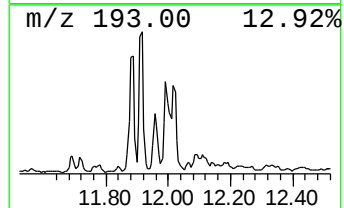
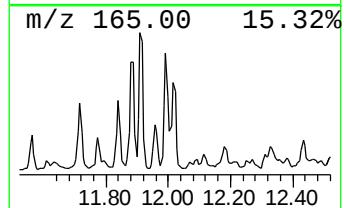
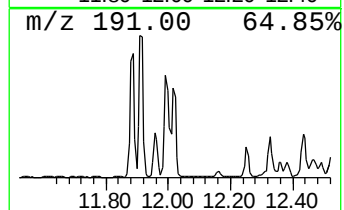
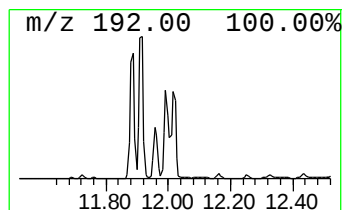
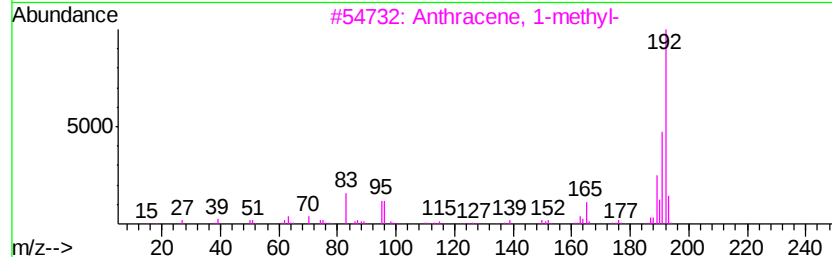
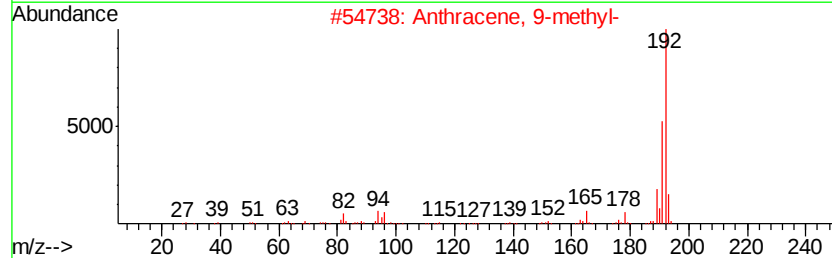
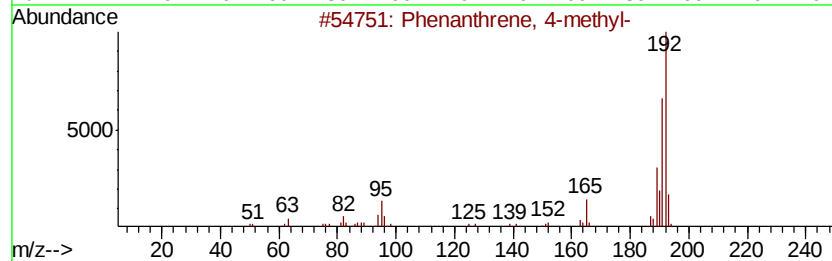
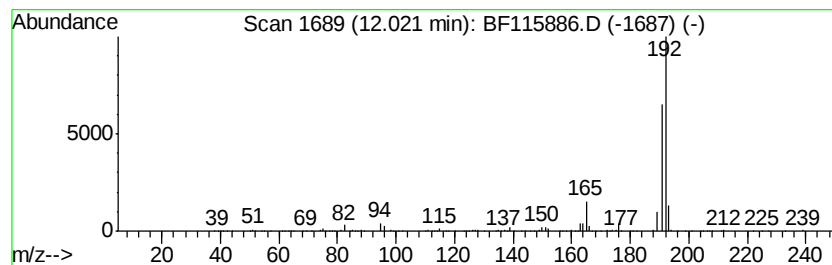
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Phenanthrene, 4-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD		R.T.
12.02	9.33 ng	469017	Phenanthrene-d10		11.38
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	87
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	87
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	83



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115886.D
Acq On : 1 Aug 2019 00:19
Operator : HP/JU
Sample : K4049-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

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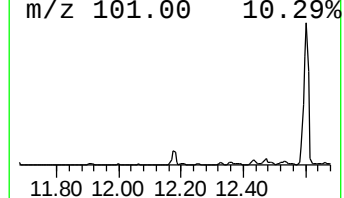
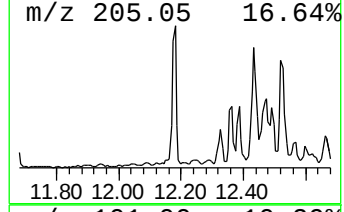
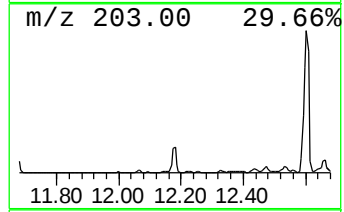
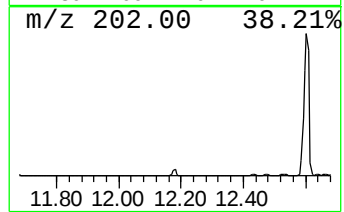
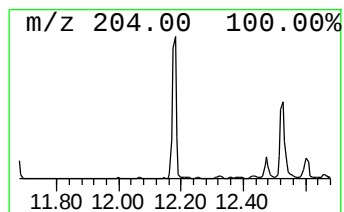
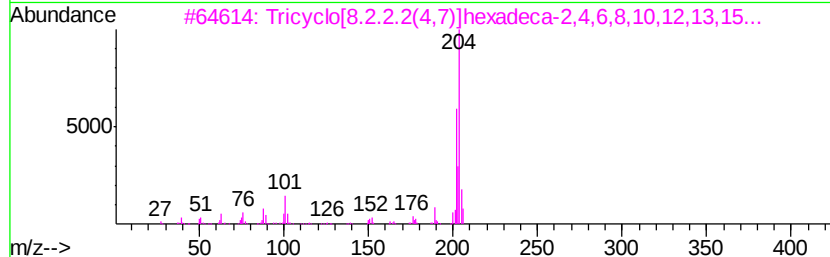
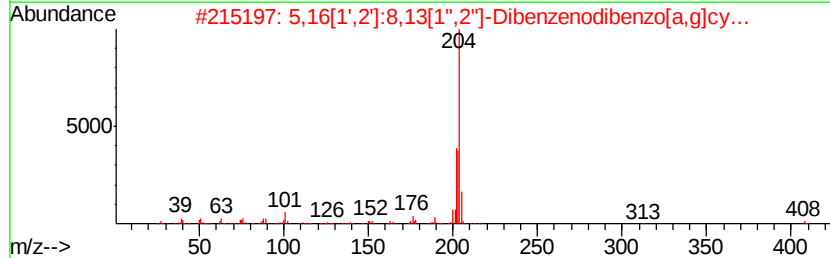
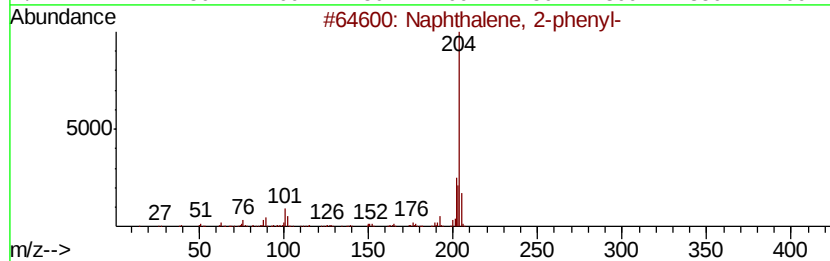
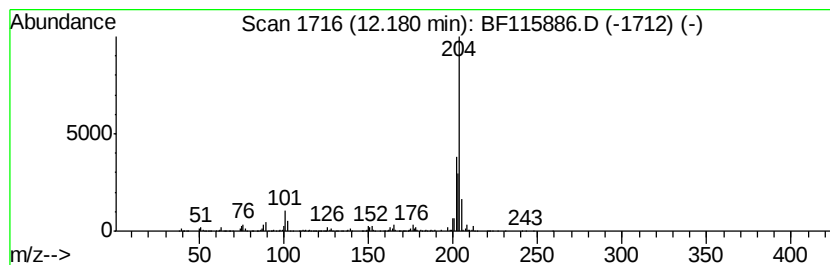
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Naphthalene, 2-phenyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.18	11.23 ng	564487	Phenanthrene-d10	11.38

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
2		5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
3		Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	68
4		9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	49
5		3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	49



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115886.D
Acq On : 1 Aug 2019 00:19
Operator : HP/JU
Sample : K4049-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

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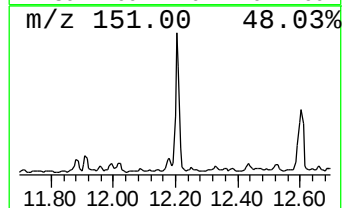
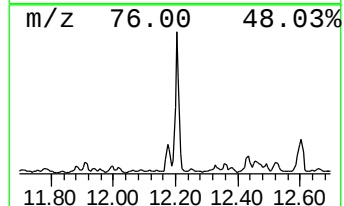
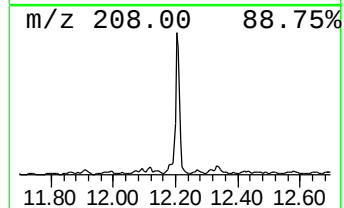
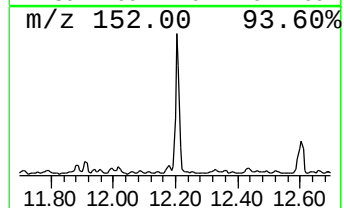
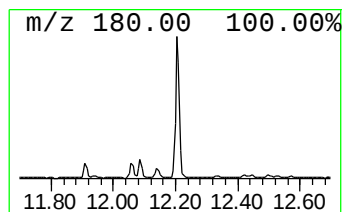
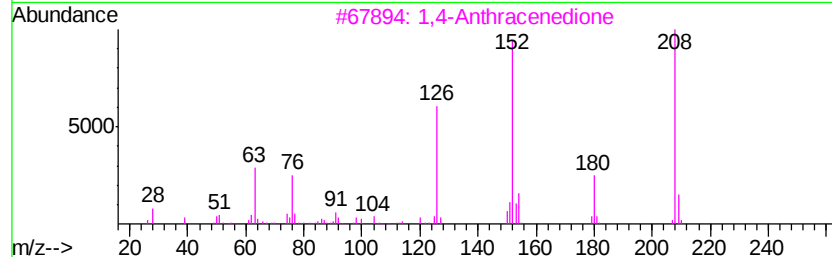
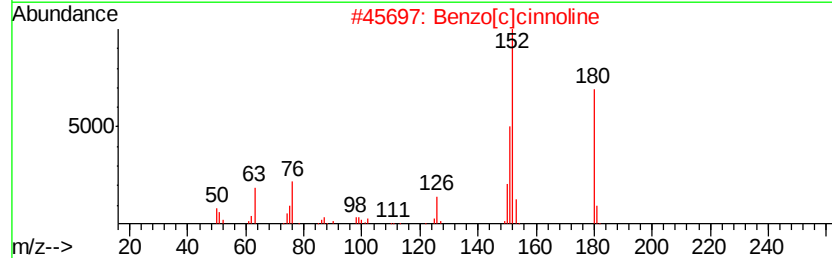
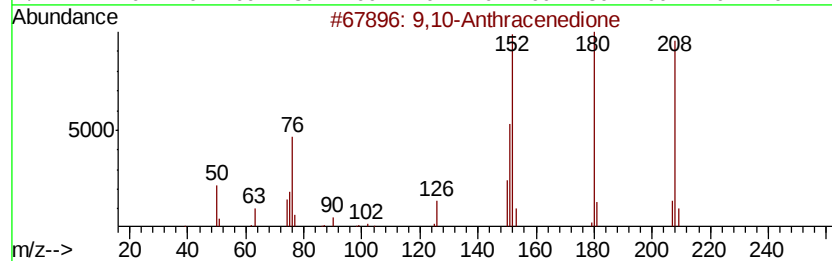
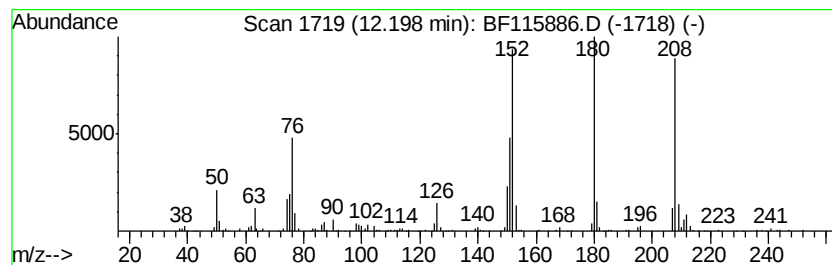
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 9,10-Anthracenedione Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	12.43 ng	624629	Phenanthrene-d10	11.38

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	83
3		1,4-Anthracenedione	208	C14H8O2	000635-12-1	53
4		Benzo[h]cinnoline	180	C12H8N2	000230-31-9	53
5		5,6-Dimethyl-1,10-phenanthroline	208	C14H12N2	003002-81-1	43



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115886.D
Acq On : 1 Aug 2019 00:19
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Misc :
ALS Vial : 18 Sample Multiplier: 1

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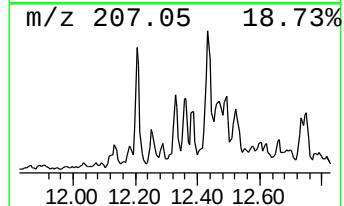
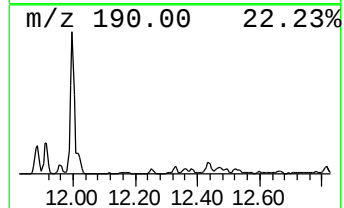
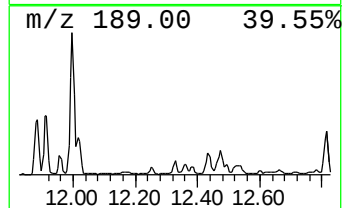
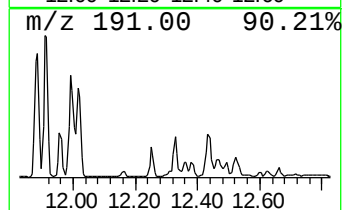
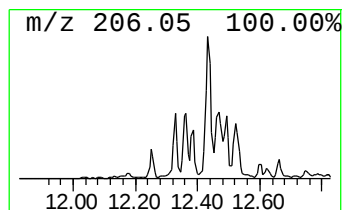
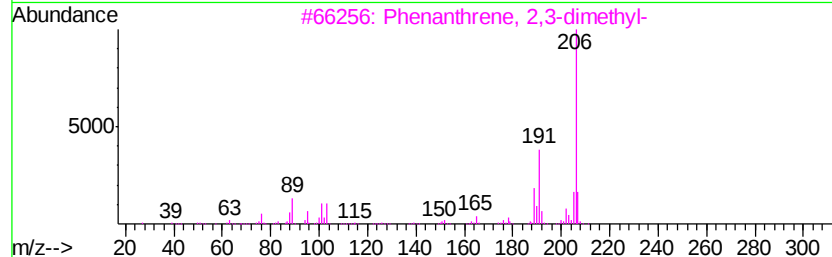
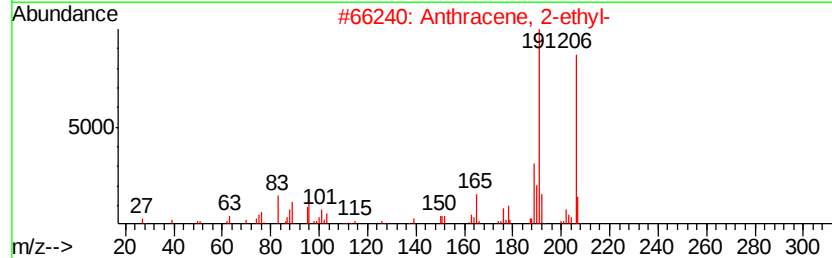
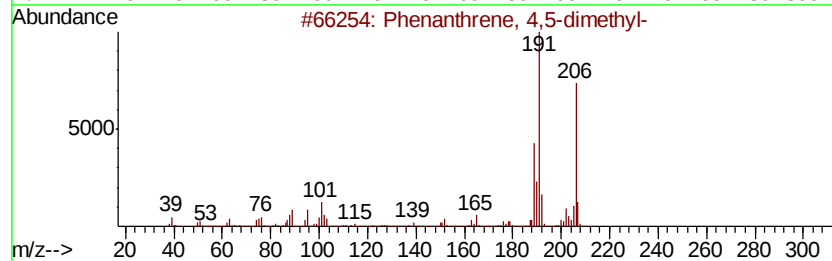
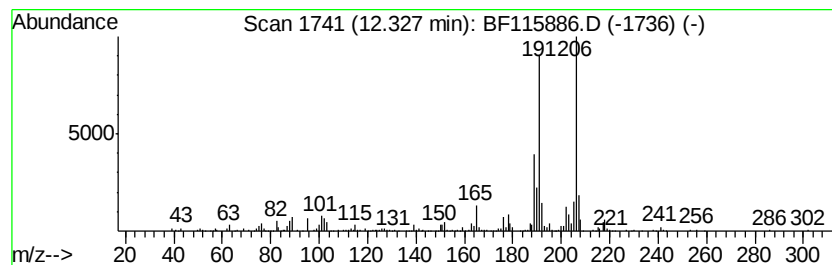
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Phenanthrene, 4,5-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.33	6.64 ng	333840	Phenanthrene-d10	11.38

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	95
3			Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	94
4			3-Methyl-1-phenyl-1H-indene	206	C16H14	022360-63-0	90
5			1-Methyl-3-phenyl-1H-indene	206	C16H14	022360-62-9	81



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115886.D
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Operator : HP/JU
Sample : K4049-03 2X
Misc :
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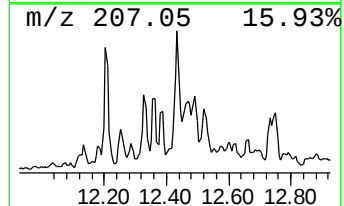
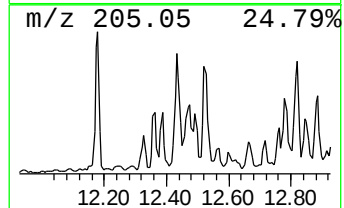
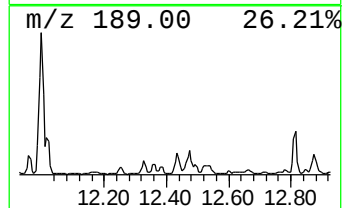
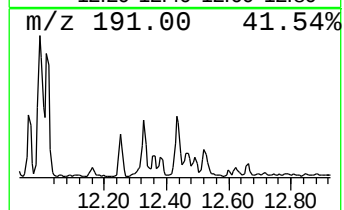
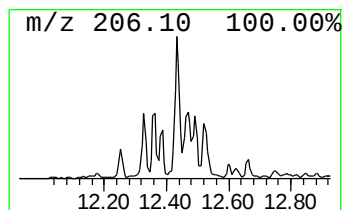
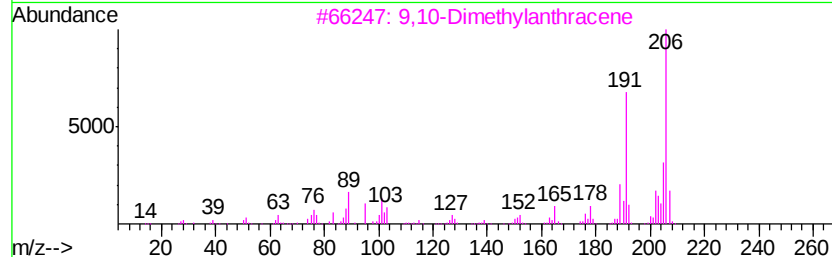
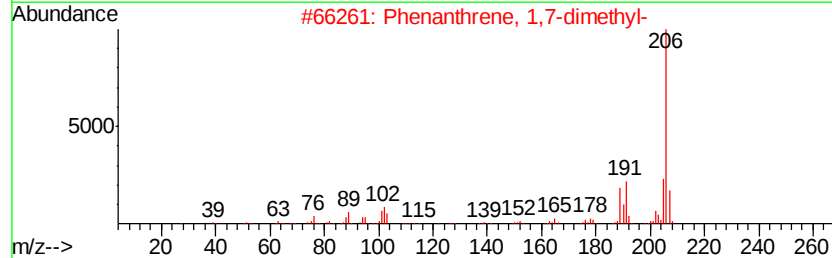
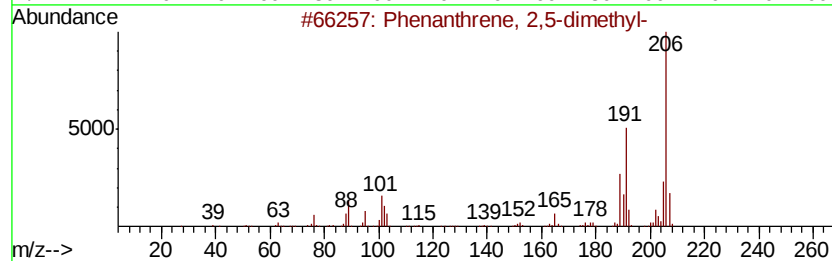
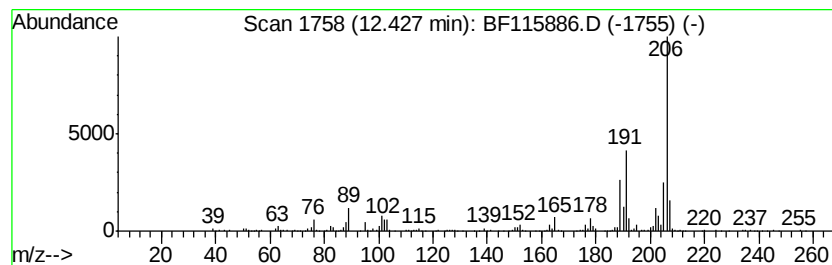
Instrument :
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ClientSampleId :
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Phenanthrene, 2,5-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD		R.T.
12.43	10.88 ng	546852	Phenanthrene-d10		11.38
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	93
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115886.D
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ClientSampleId :
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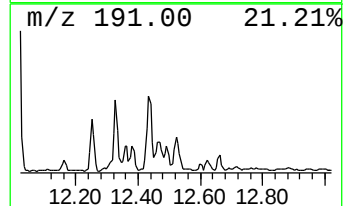
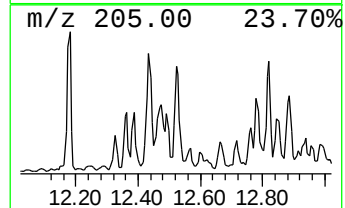
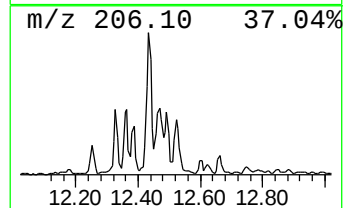
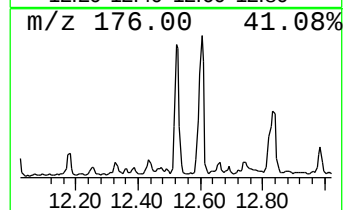
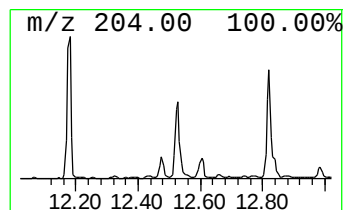
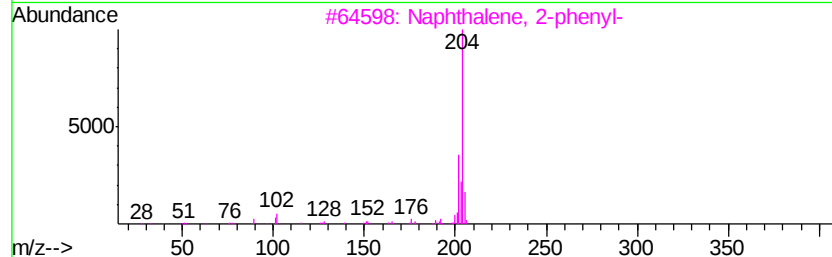
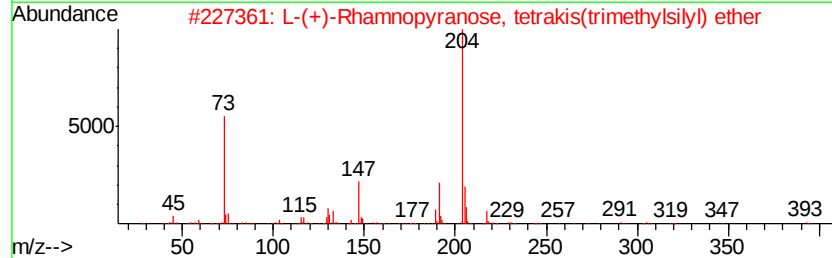
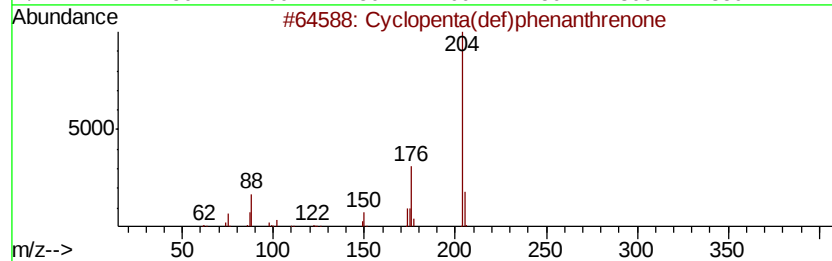
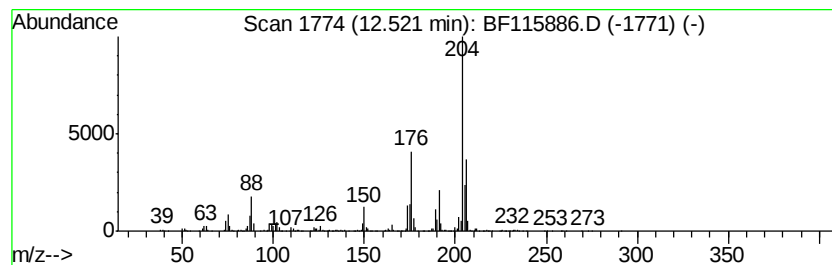
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 Cyclopenta(def)phenanthrenone Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.52	10.06 ng	505415	Phenanthrene-d10	11.38

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2		L-(+)-Rhamnopyranose, tetrakis(t...	452	C18H44O5Si4	1000380-12-9	47
3		Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	43
4		3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	43
5		Pyrimidine, 2-chloro-4-methyl-6-...	204	C11H9ClN2	032785-40-3	43



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115886.D
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Operator : HP/JU
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Misc :
ALS Vial : 18 Sample Multiplier: 1

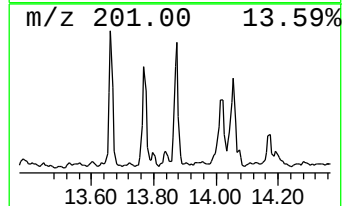
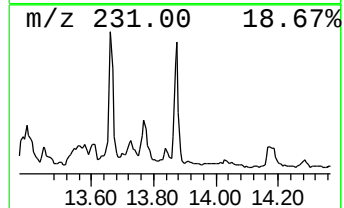
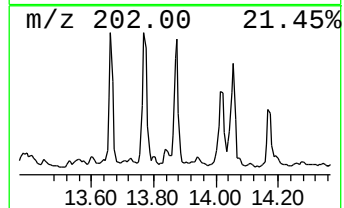
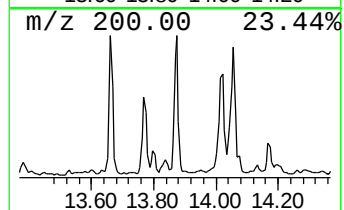
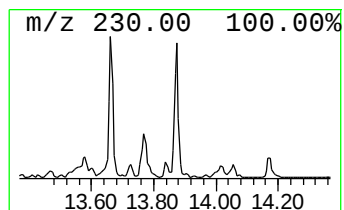
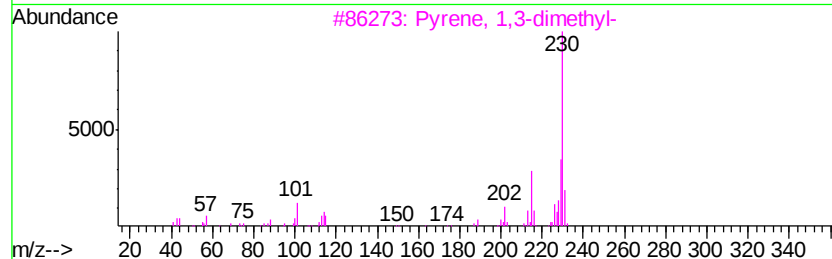
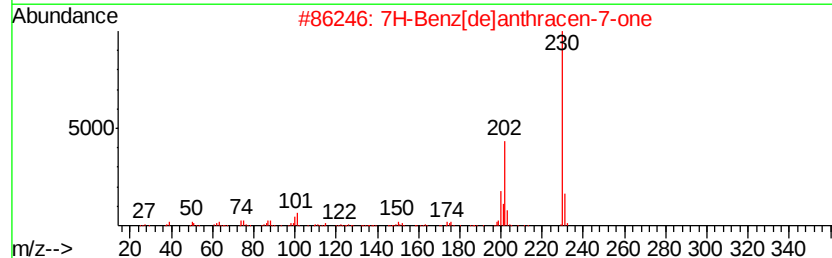
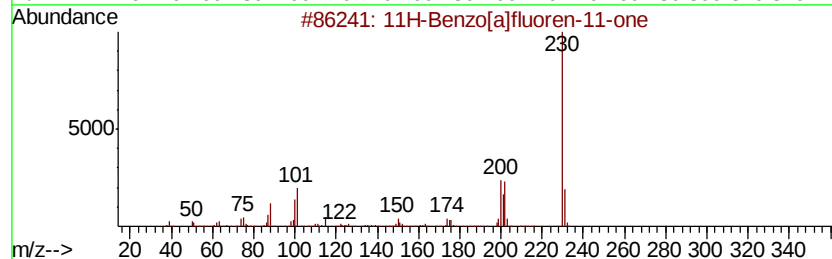
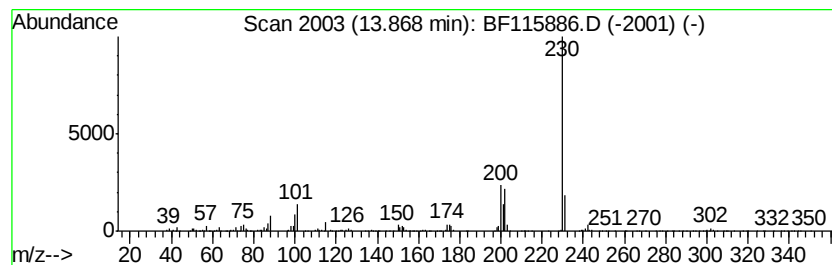
Instrument :
BNA_F
ClientSampleId :
SP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 11H-Benzo[a]fluoren-11-one Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.		
13.87	4.60 ng	749408	Chrysene-d12	14.03		
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		Pyrene, 1,3-dimethyl-	230	C18H14	064401-21-4	53
4		o-Terphenyl	230	C18H14	000084-15-1	53
5		5,6-Dihydrochrysene	230	C18H14	002091-92-1	50



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115886.D
Acq On : 1 Aug 2019 00:19
Operator : HP/JU
Sample : K4049-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SP-3

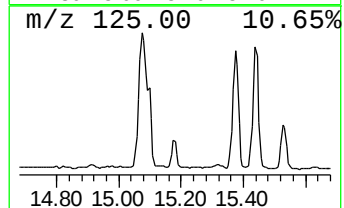
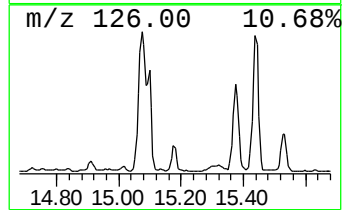
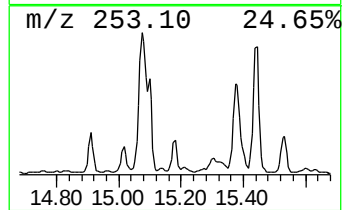
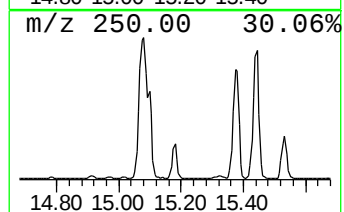
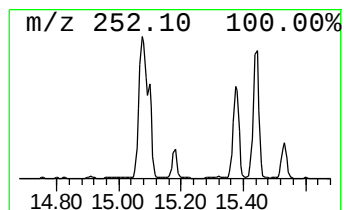
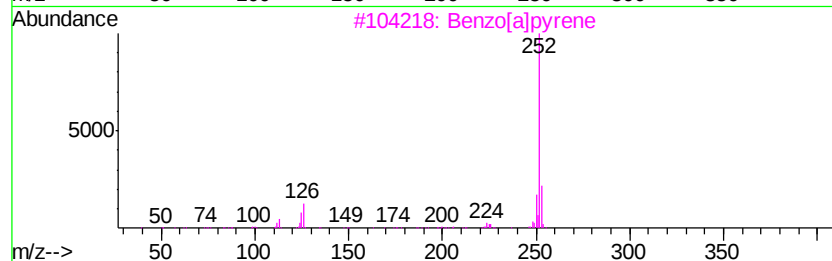
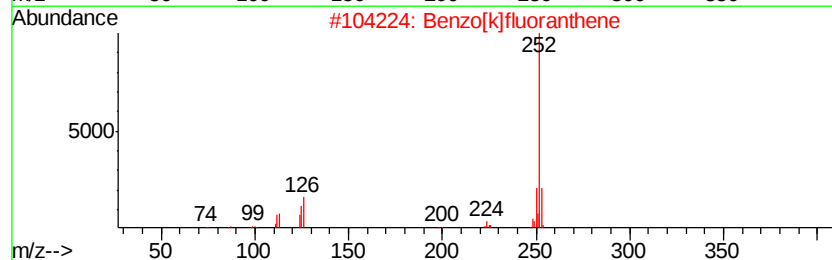
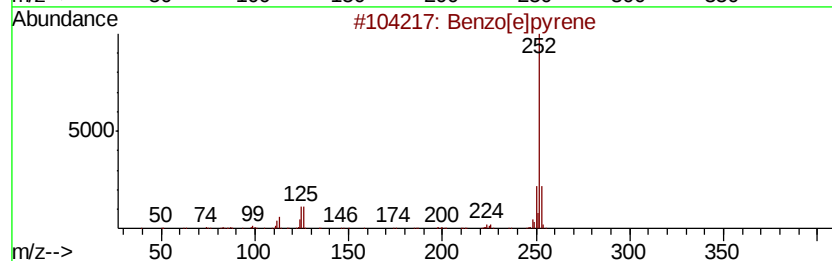
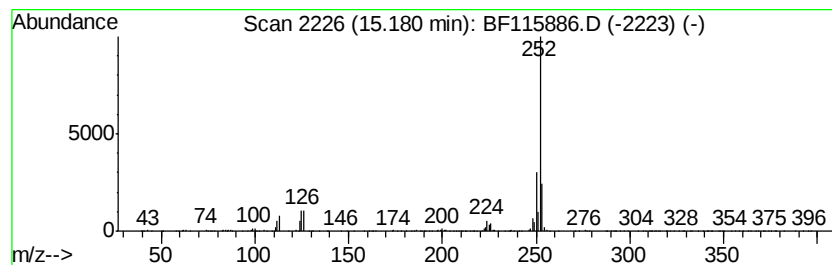
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Benzo[e]pyrene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.18	7.17 ng	305760	Perylene-d12	15.50

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzo[e]pyrene	252	C20H12	000192-97-2	98
2			Benzo[k]fluoranthene	252	C20H12	000207-08-9	96
3			Benzo[a]pyrene	252	C20H12	000050-32-8	95
4			Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	94
5			Benzo[j]fluoranthene	252	C20H12	000205-82-3	90



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115886.D
Acq On : 1 Aug 2019 00:19
Operator : HP/JU
Sample : K4049-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SP-3

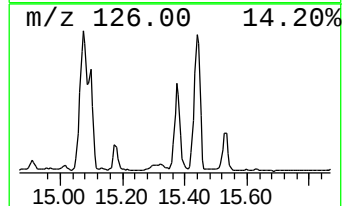
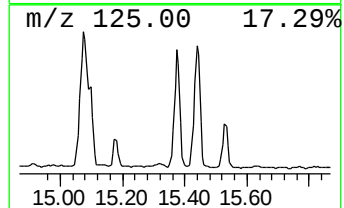
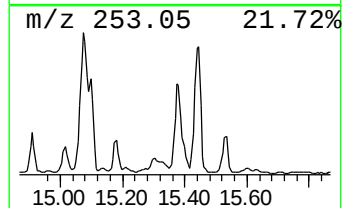
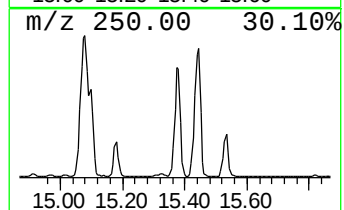
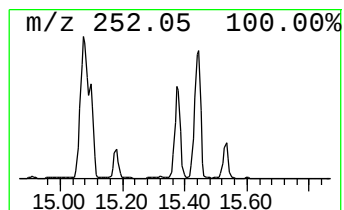
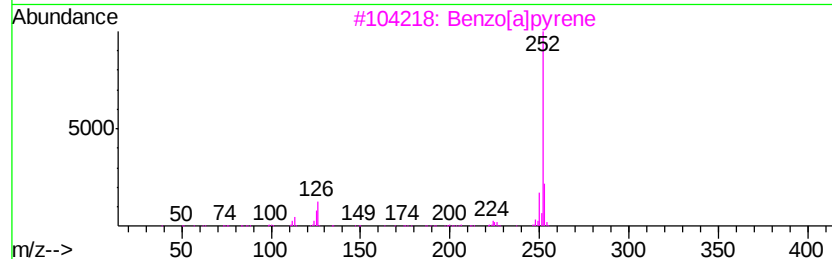
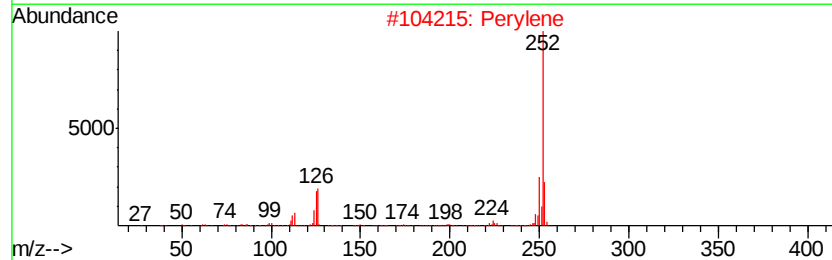
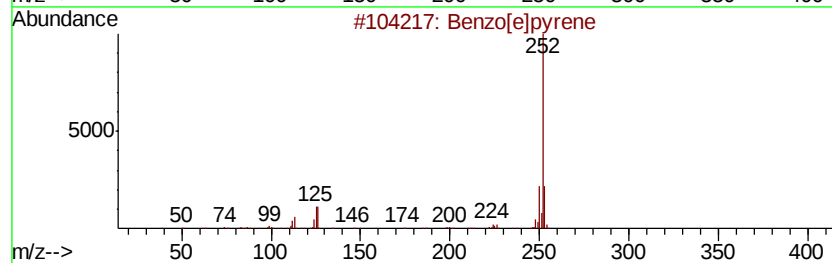
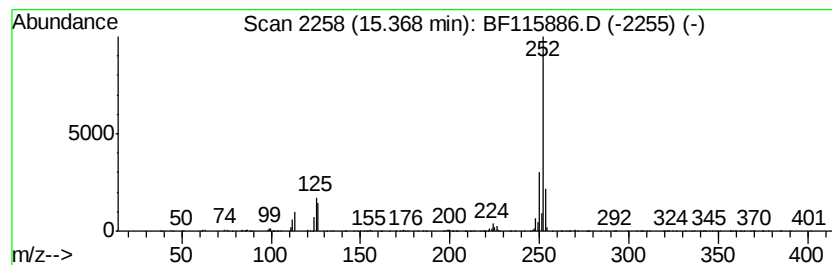
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Perylene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.37	34.32 ng	1462610	Perylene-d12	15.50

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[el]pyrene	252	C20H12	000192-97-2	99
2		Perylene	252	C20H12	000198-55-0	98
3		Benzo[al]pyrene	252	C20H12	000050-32-8	96
4		Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
5		Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF073119\
 Data File : BF115886.D
 Acq On : 1 Aug 2019 00:19
 Operator : HP/JU
 Sample : K4049-03 2X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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
1,3,5-Cycloheptat...	3.90	10.4	ng	390279	1	6.85	750312	20.0
unknown6.62	6.62	35.8	ng	1341500	1	6.85	750312	20.0
9H-Fluorene, 1-me...	10.99	4.5	ng	228589	4	11.38	1005060	20.0
9H-Fluoren-9-one	11.19	6.9	ng	345346	4	11.38	1005060	20.0
Dibenzothiophene	11.27	6.1	ng	305484	4	11.38	1005060	20.0
Anthracene, 9-eth...	11.67	4.4	ng	221365	4	11.38	1005060	20.0
Phenanthrene, 2-m...	11.89	16.6	ng	836297	4	11.38	1005060	20.0
Phenanthrene, 1-m...	11.91	22.2	ng	1113890	4	11.38	1005060	20.0
Anthracene, 2-met...	11.96	5.2	ng	261827	4	11.38	1005060	20.0
4H-Cyclopenta[def...	12.00	24.7	ng	1241080	4	11.38	1005060	20.0
Phenanthrene, 4-m...	12.02	9.3	ng	469017	4	11.38	1005060	20.0
Naphthalene, 2-ph...	12.18	11.2	ng	564487	4	11.38	1005060	20.0
9,10-Anthracenedione	12.20	12.4	ng	624629	4	11.38	1005060	20.0
Phenanthrene, 4,5...	12.33	6.6	ng	333840	4	11.38	1005060	20.0
Phenanthrene, 2,5...	12.43	10.9	ng	546852	4	11.38	1005060	20.0
Cyclopenta(def)ph...	12.52	10.1	ng	505415	4	11.38	1005060	20.0
11H-Benzo[a]fluor...	13.87	4.6	ng	749408	5	14.03	3259350	20.0
Benzo[e]pyrene	15.18	7.2	ng	305760	6	15.50	852332	20.0
Perylene	15.37	34.3	ng	1462610	6	15.50	852332	20.0