

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032919\
 Data File : BF113426.D
 Acq On : 29 Mar 2019 21:20
 Operator : JU/SJ
 Sample : K2153-25 2X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-2

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	5.310	545	548	566	rBV	1277756	1428724	22.91%	1.758%
2	6.345	720	724	742	rBV	1572384	1609926	25.82%	1.981%
3	6.469	742	745	753	rBV	1640437	1590606	25.51%	1.958%
4	6.698	781	784	794	rBV	993149	874350	14.02%	1.076%
5	6.857	807	811	827	rVB	1403290	1240565	19.90%	1.527%
6	7.263	876	880	894	rBV	909723	965177	15.48%	1.188%
7	7.981	999	1002	1005	rBV	1170931	1095501	17.57%	1.348%
8	8.004	1005	1006	1014	rVB	216294	161292	2.59%	0.198%
9	8.698	1120	1124	1132	rBV	125917	124849	2.00%	0.154%
10	8.792	1136	1140	1149	rVB	179832	167138	2.68%	0.206%
11	9.057	1181	1185	1196	rBV	2003154	1832775	29.39%	2.256%
12	9.322	1225	1230	1235	rBV	86713	127303	2.04%	0.157%
13	9.392	1239	1242	1245	rVV	211708	218816	3.51%	0.269%
14	9.451	1249	1252	1257	rVV	119150	123634	1.98%	0.152%
15	9.510	1259	1262	1268	rVB	111224	128528	2.06%	0.158%
16	9.733	1293	1300	1303	rBV	1436780	1406454	22.56%	1.731%
17	9.763	1303	1305	1309	rVB	525152	437988	7.02%	0.539%
18	9.933	1331	1334	1338	rVV	297088	294028	4.72%	0.362%
19	9.975	1338	1341	1349	rVB	114255	124029	1.99%	0.153%
20	10.275	1389	1392	1398	rBV	466203	478633	7.68%	0.589%
21	10.339	1398	1403	1405	rBV	128092	171710	2.75%	0.211%
22	10.433	1416	1419	1424	rVB	182977	200190	3.21%	0.246%
23	10.516	1428	1433	1439	rVV	1294999	1370954	21.99%	1.687%
24	10.645	1452	1455	1461	rVB2	125911	146345	2.35%	0.180%
25	10.822	1479	1485	1488	rBV3	163947	246404	3.95%	0.303%
26	10.851	1488	1490	1493	rVV2	150229	134176	2.15%	0.165%
27	10.951	1502	1507	1509	rBV2	127198	183289	2.94%	0.226%
28	10.974	1509	1511	1516	rVV	133689	152855	2.45%	0.188%
29	11.022	1516	1519	1523	rVV	351256	346029	5.55%	0.426%
30	11.069	1523	1527	1529	rVV2	144493	196689	3.15%	0.242%
31	11.104	1531	1533	1541	rVB	358474	380867	6.11%	0.469%
32	11.210	1547	1551	1553	rBV	1465889	1502383	24.10%	1.849%
33	11.239	1553	1556	1559	rVV	4777429	5268258	84.49%	6.484%
34	11.286	1559	1564	1568	rVV	1749906	1493926	23.96%	1.839%

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032919\
 Data File : BF113426.D
 Acq On : 29 Mar 2019 21:20
 Operator : JU/SJ
 Sample : K2153-25 2X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-2

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

35	11.439	1585	1590	1593	rBV2	365435	404544	6.49%	0.498%
36	11.504	1598	1601	1604	rVV2	263086	247609	3.97%	0.305%
37	11.545	1604	1608	1613	rVB3	185099	243084	3.90%	0.299%
38	11.621	1616	1621	1626	rVB2	104064	164025	2.63%	0.202%
39	11.710	1632	1636	1639	rVV	1243105	1091450	17.50%	1.343%
40	11.739	1639	1641	1646	rVV	1421894	1274155	20.43%	1.568%
41	11.786	1646	1649	1652	rVV	520259	449712	7.21%	0.553%
42	11.821	1652	1655	1657	rVV	1407631	1477968	23.70%	1.819%
43	11.845	1657	1659	1664	rVB	849592	701353	11.25%	0.863%
44	12.004	1682	1686	1689	rVV	782532	695473	11.15%	0.856%
45	12.033	1689	1691	1696	rVB	545775	469865	7.54%	0.578%
46	12.151	1706	1711	1714	rBV	302565	372448	5.97%	0.458%
47	12.186	1714	1717	1719	rVV	255857	215765	3.46%	0.266%
48	12.210	1719	1721	1724	rVB	216526	174168	2.79%	0.214%
49	12.257	1724	1729	1732	rBV	586120	672966	10.79%	0.828%
50	12.298	1732	1736	1738	rVV3	348308	509194	8.17%	0.627%
51	12.345	1741	1744	1749	rVV	481645	569448	9.13%	0.701%
52	12.427	1753	1758	1761	rBV	5022455	5567761	89.30%	6.852%
53	12.463	1762	1764	1766	rVV	135177	132246	2.12%	0.163%
54	12.486	1766	1768	1771	rVB2	200890	174532	2.80%	0.215%
55	12.527	1771	1775	1777	rBV4	84171	126189	2.02%	0.155%
56	12.563	1778	1781	1786	rVV2	271734	374215	6.00%	0.461%
57	12.657	1790	1797	1801	rBV	4734580	6235211	100.00%	7.674%
58	12.698	1801	1804	1809	rVB2	231771	353994	5.68%	0.436%
59	12.763	1812	1815	1817	rBV2	290085	329144	5.28%	0.405%
60	12.786	1817	1819	1826	rVB	2008591	2075457	33.29%	2.554%
61	12.868	1827	1833	1840	rBV3	499165	901628	14.46%	1.110%
62	12.951	1844	1847	1848	rBV2	370941	389702	6.25%	0.480%
63	12.974	1848	1851	1854	rVB	648788	679927	10.90%	0.837%
64	13.039	1858	1862	1865	rBV	265672	261520	4.19%	0.322%
65	13.074	1865	1868	1876	rVB	657328	794339	12.74%	0.978%
66	13.168	1880	1884	1886	rBV	450943	393655	6.31%	0.484%
67	13.198	1886	1889	1893	rVB	441132	388664	6.23%	0.478%
68	13.374	1912	1919	1921	rBV6	144997	288249	4.62%	0.355%
69	13.480	1934	1937	1942	rVB	525127	525910	8.43%	0.647%
70	13.586	1951	1955	1958	rBV	531723	613685	9.84%	0.755%
71	13.615	1958	1960	1962	rVB	500309	362879	5.82%	0.447%

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032919\
 Data File : BF113426.D
 Acq On : 29 Mar 2019 21:20
 Operator : JU/SJ
 Sample : K2153-25 2X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-2

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

72	13.639	1962	1964	1970	rVB2	392526	473869	7.60%	0.583%
73	13.692	1970	1973	1977	rVB	443527	444150	7.12%	0.547%
74	13.757	1979	1984	1987	rBV	115809	180182	2.89%	0.222%
75	13.833	1990	1997	2001	rBV2	2851563	4752640	76.22%	5.849%
76	13.868	2001	2003	2006	rVB	2424019	1970755	31.61%	2.425%
77	13.945	2014	2016	2018	rVV	335940	240125	3.85%	0.296%
78	14.010	2021	2027	2029	rBV4	151647	243376	3.90%	0.300%
79	14.068	2032	2037	2039	rVV2	137231	166184	2.67%	0.205%
80	14.186	2054	2057	2059	rVV2	210391	210603	3.38%	0.259%
81	14.227	2059	2064	2066	rVV	618587	725044	11.63%	0.892%
82	14.257	2066	2069	2073	rVV	362870	397352	6.37%	0.489%
83	14.310	2073	2078	2082	rVV4	266760	533054	8.55%	0.656%
84	14.351	2082	2085	2086	rVV2	274872	268437	4.31%	0.330%
85	14.368	2086	2088	2091	rVV	234159	231231	3.71%	0.285%
86	14.415	2094	2096	2102	rVB	194546	201843	3.24%	0.248%
87	14.698	2141	2144	2147	rVB2	174067	188233	3.02%	0.232%
88	14.851	2165	2170	2177	rBV	1868574	3667233	58.81%	4.513%
89	14.915	2179	2181	2184	rVV	191783	188249	3.02%	0.232%
90	14.945	2184	2186	2190	rVB	333327	355809	5.71%	0.438%
91	15.127	2213	2217	2223	rVB	1198114	1544407	24.77%	1.901%
92	15.192	2223	2228	2232	rBV	1718989	2082103	33.39%	2.562%
93	15.245	2232	2237	2240	rVV	1058300	1415900	22.71%	1.743%
94	15.268	2240	2241	2250	rVB2	557936	648364	10.40%	0.798%
95	16.415	2432	2436	2439	rBV2	81769	130827	2.10%	0.161%
96	16.598	2461	2467	2473	rVB	729286	1293915	20.75%	1.592%
97	16.751	2488	2493	2498	rBV	137959	265625	4.26%	0.327%
98	16.809	2498	2503	2509	rVB2	103926	199654	3.20%	0.246%
99	17.003	2529	2536	2545	rVB	540706	1074381	17.23%	1.322%
100	17.221	2568	2573	2580	rBV	116364	235750	3.78%	0.290%

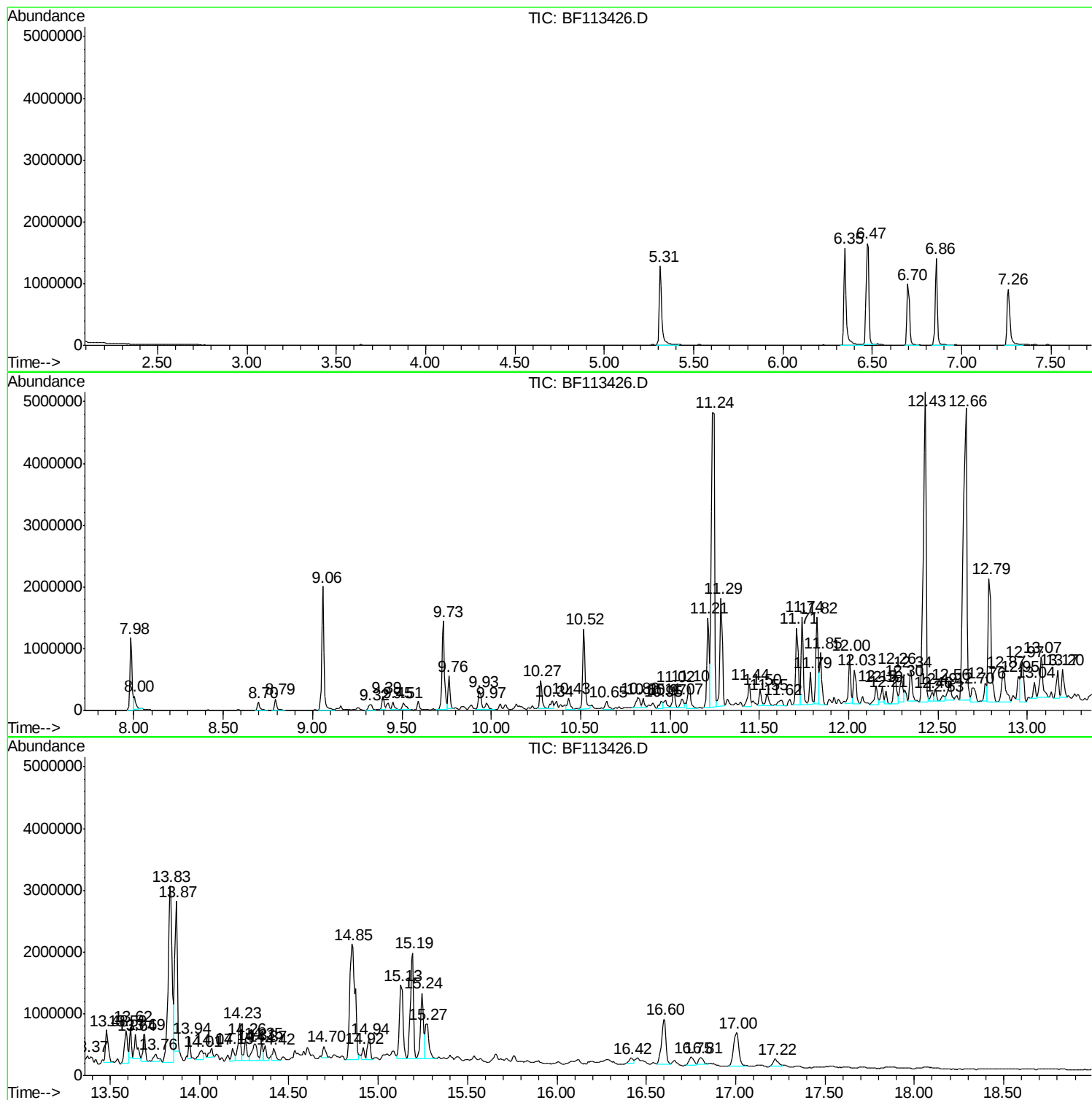
Sum of corrected areas: 81255820

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032919\
Data File : BF113426.D
Acq On : 29 Mar 2019 21:20
Operator : JU/SJ
Sample : K2153-25 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SP-2

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032919\
Data File : BF113426.D
Acq On : 29 Mar 2019 21:20
Operator : JU/SJ
Sample : K2153-25 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SP-2

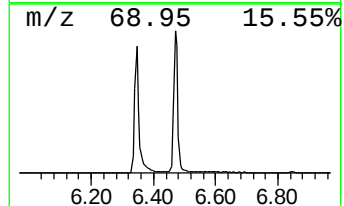
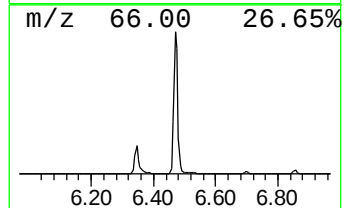
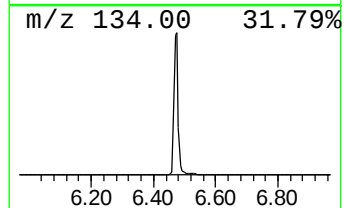
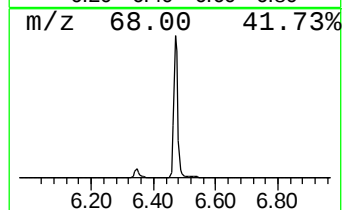
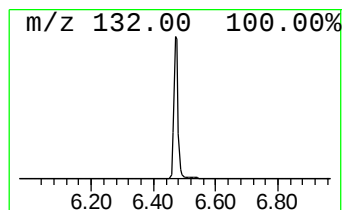
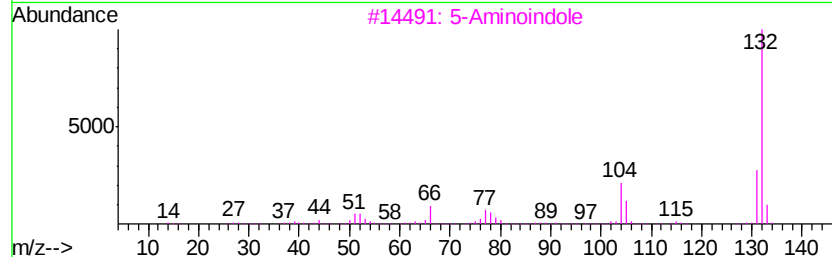
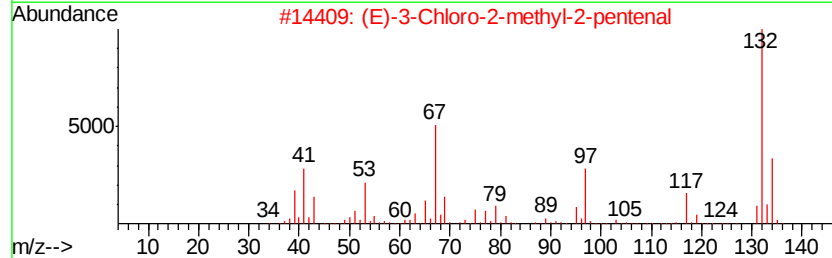
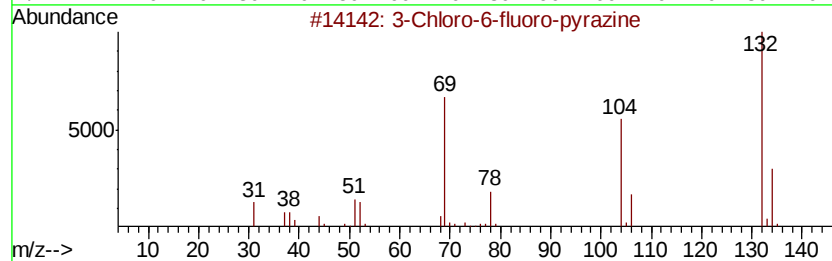
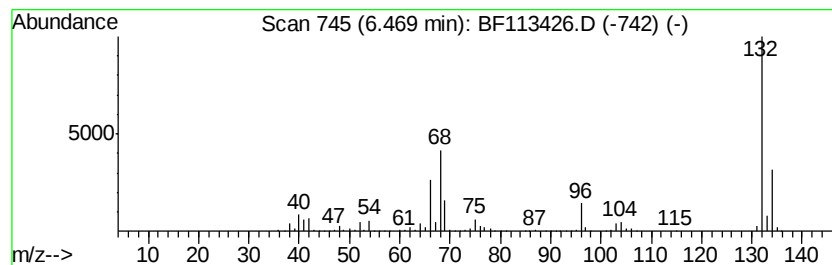
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 unknown6.47 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.47	36.38 ng	1590610	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		5-Aminoindole	132	C8H8N2	005192-03-0	12
4		Amphetaminil	250	C17H18N2	017590-01-1	10
5		2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032919\
Data File : BF113426.D
Acq On : 29 Mar 2019 21:20
Operator : JU/SJ
Sample : K2153-25 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SP-2

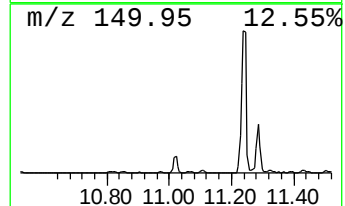
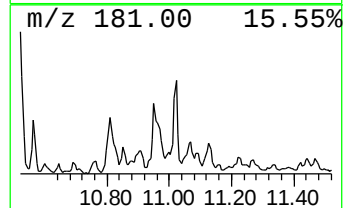
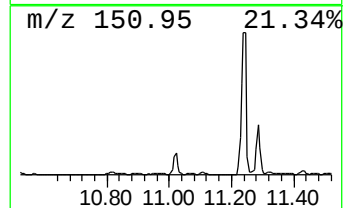
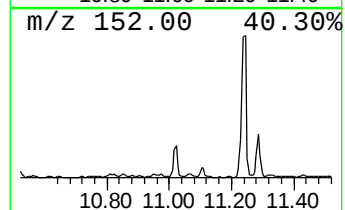
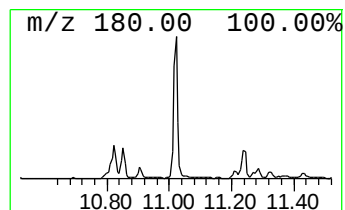
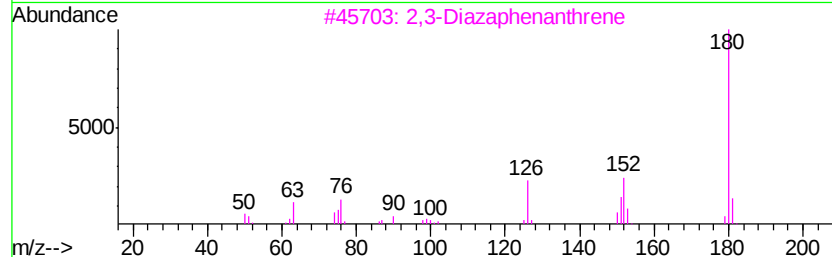
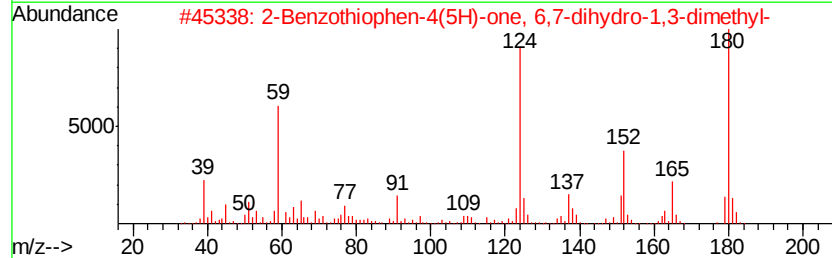
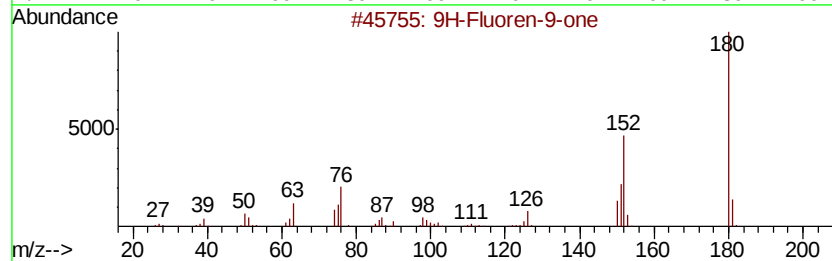
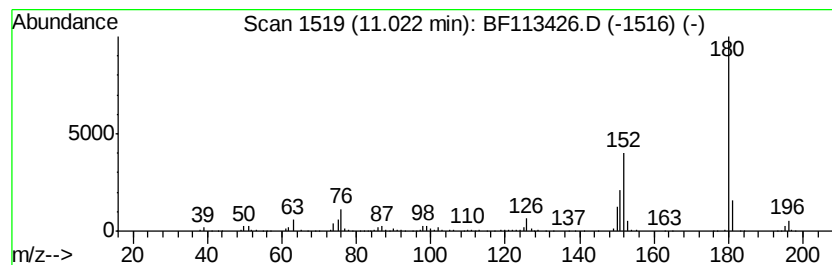
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 9H-Fluoren-9-one Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.02	4.61 ng	346029	Phenanthrene-d10	11.21

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one		180	C13H8O	000486-25-9	96
2	2-Benzothiophen-4(5H)-one, 6,7-d...		180	C10H12OS	1000338-11-9	50
3	2,3-Diazaphenanthrene		180	C12H8N2	000229-72-1	50
4	1H-Phenalen-1-one		180	C13H8O	000548-39-0	50
5	Phenazine		180	C12H8N2	000092-82-0	43



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032919\
Data File : BF113426.D
Acq On : 29 Mar 2019 21:20
Operator : JU/SJ
Sample : K2153-25 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

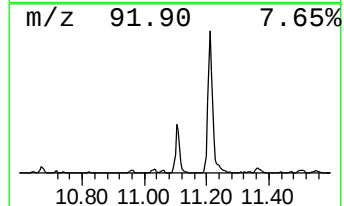
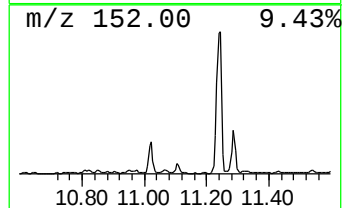
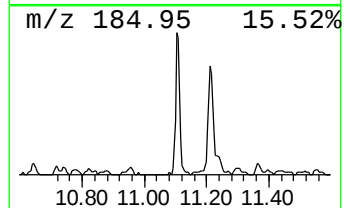
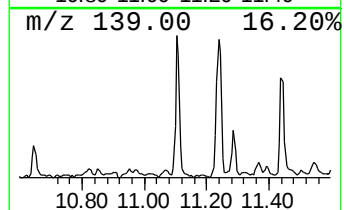
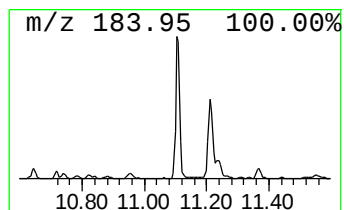
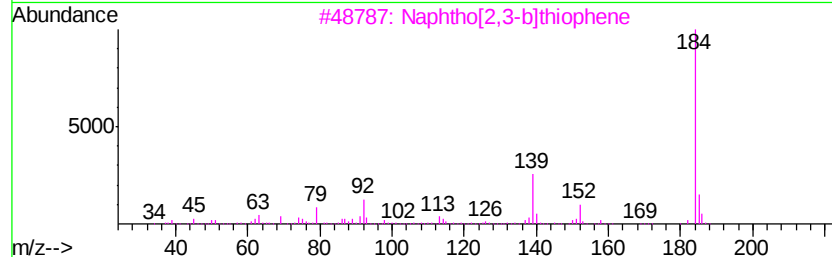
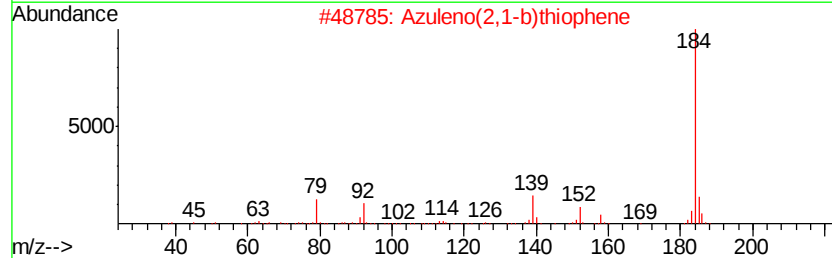
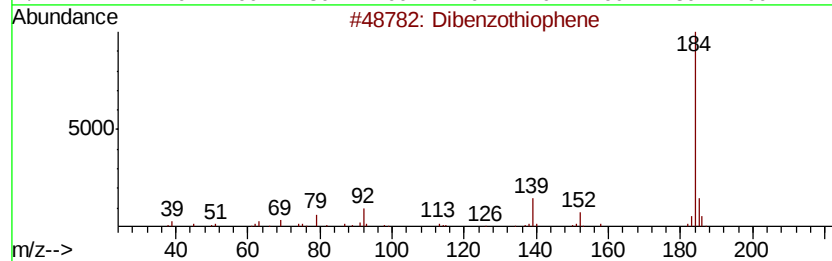
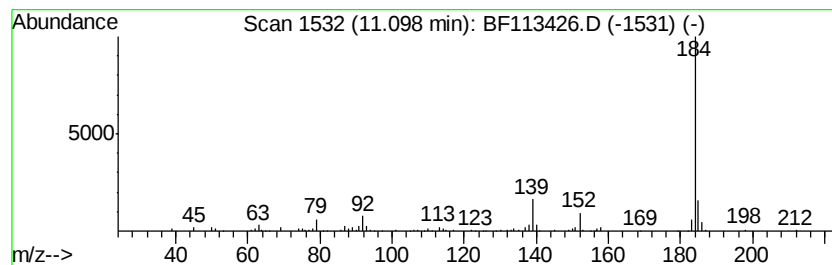
Instrument :
BNA_F
ClientSampleId :
SP-2

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 4 Dibenzothiophene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD		R.T.
11.10	5.07 ng	380867	Phenanthrene-d10		11.21
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	96
2	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	90
4	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	86
5	1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	72



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032919\
Data File : BF113426.D
Acq On : 29 Mar 2019 21:20
Operator : JU/SJ
Sample : K2153-25 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SP-2

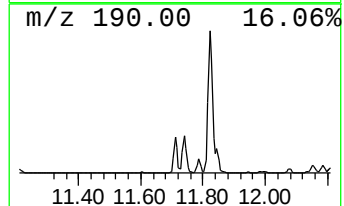
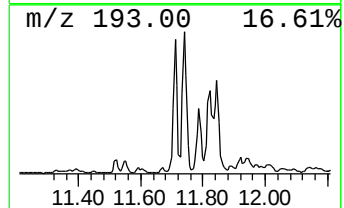
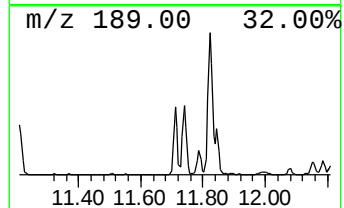
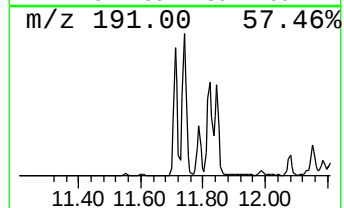
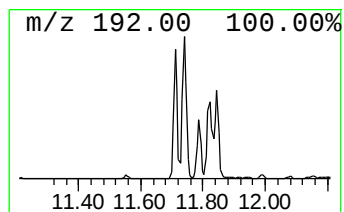
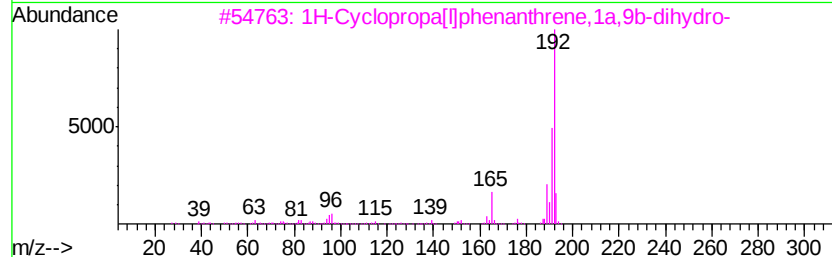
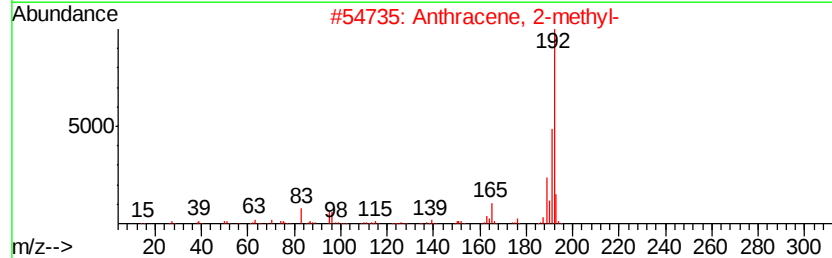
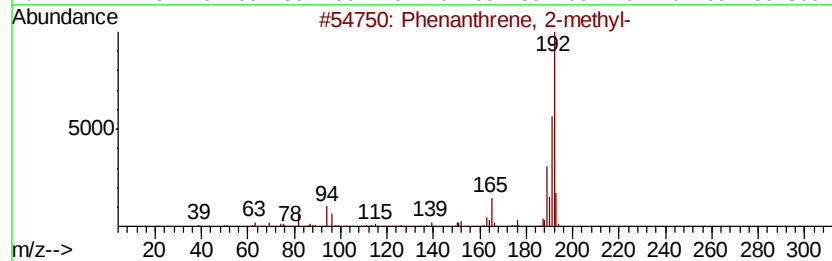
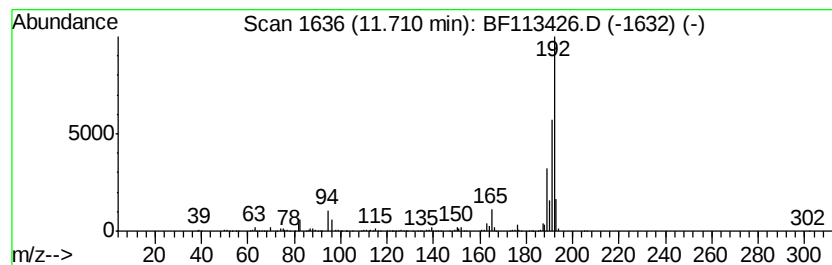
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.71	14.53 ng	1091450	Phenanthrene-d10	11.21

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	1H-Cyclopropa[1]phenanthrene, 1a, ...	192	C15H12	000949-41-7	94
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032919\
Data File : BF113426.D
Acq On : 29 Mar 2019 21:20
Operator : JU/SJ
Sample : K2153-25 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SP-2

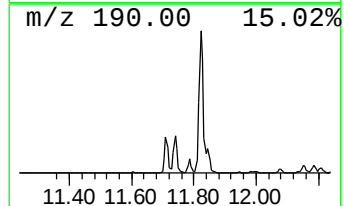
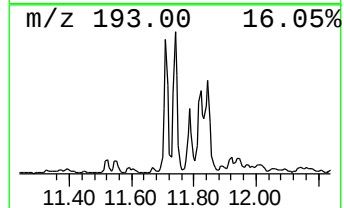
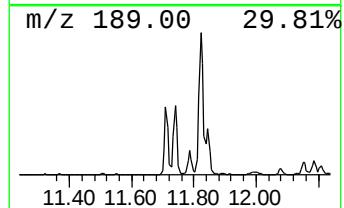
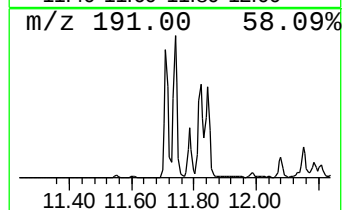
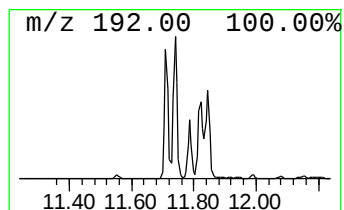
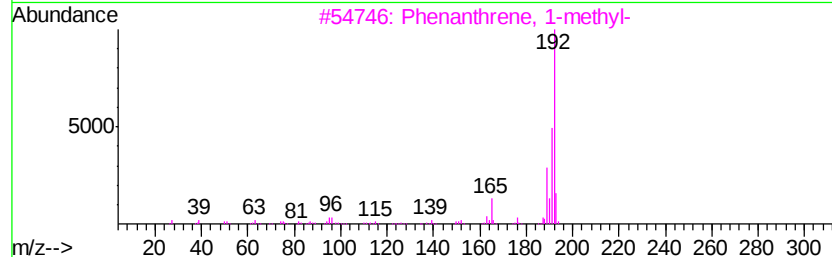
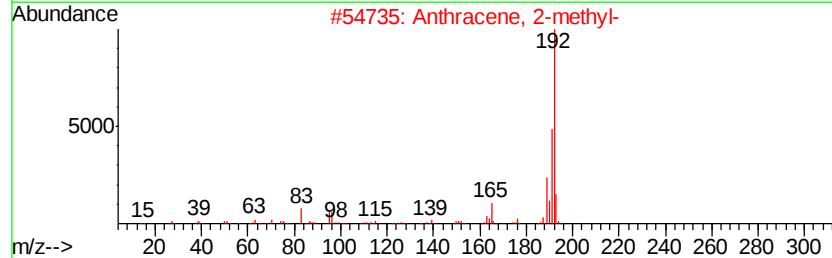
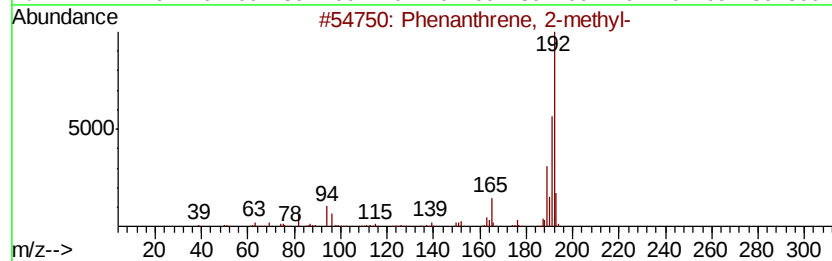
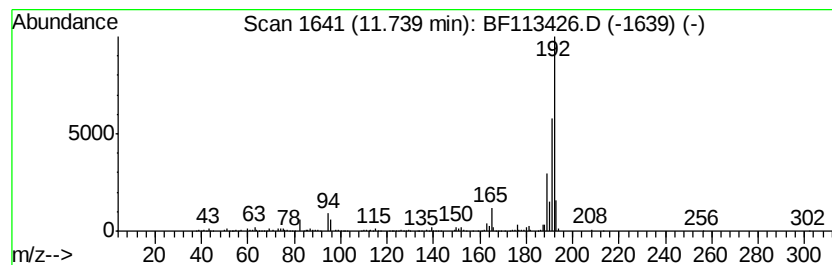
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Anthracene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.74	16.96 ng	1274160	Phenanthrene-d10	11.21

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	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		Anthracene, 9-methyl-	192	C15H12	000779-02-2	96
5		1H-Cyclopropa[1]phenanthrene, 1a, ...	192	C15H12	000949-41-7	95



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032919\
Data File : BF113426.D
Acq On : 29 Mar 2019 21:20
Operator : JU/SJ
Sample : K2153-25 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SP-2

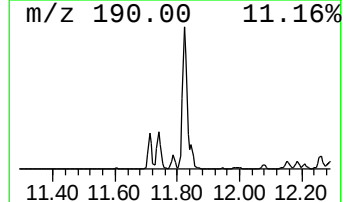
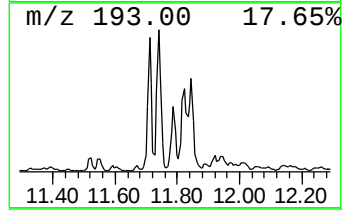
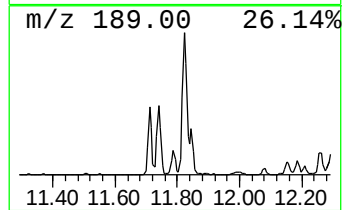
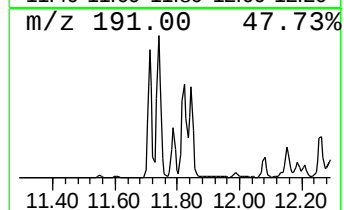
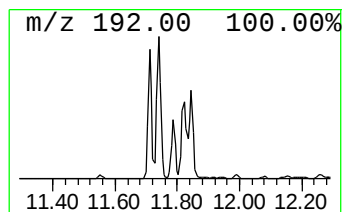
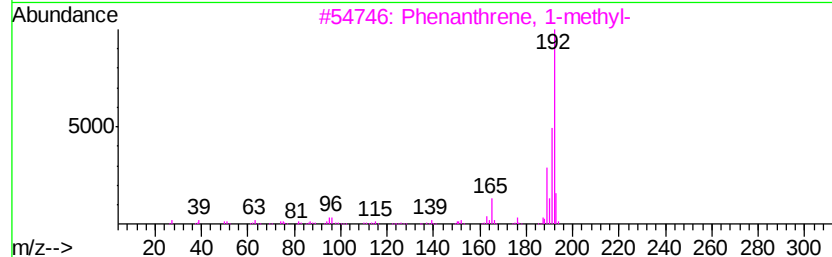
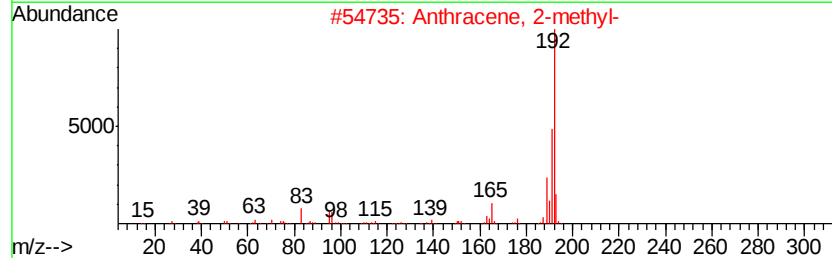
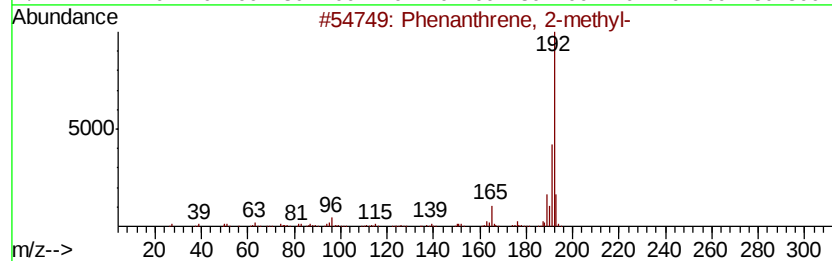
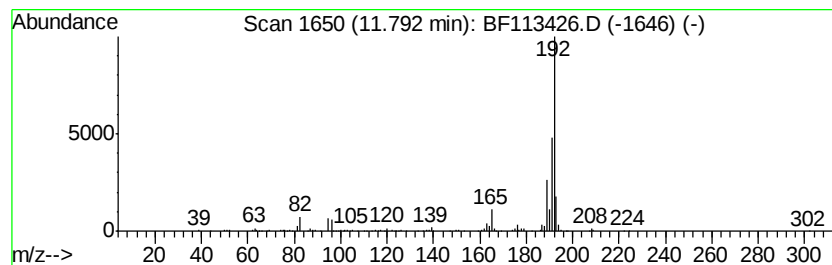
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Phenanthrene, 3-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.79	5.99 ng	449712	Phenanthrene-d10	11.21

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			Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4			Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	94
5			1H-Cyclopropa[1]phenanthrene, 1a, ...	192	C15H12	000949-41-7	94



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032919\
Data File : BF113426.D
Acq On : 29 Mar 2019 21:20
Operator : JU/SJ
Sample : K2153-25 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

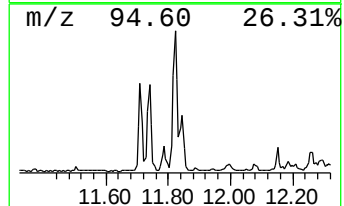
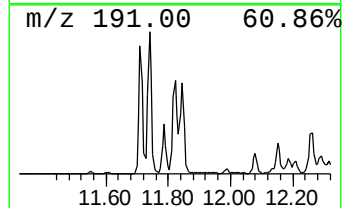
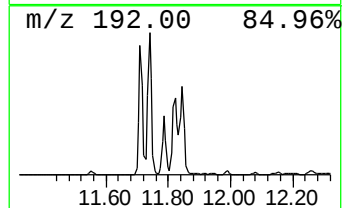
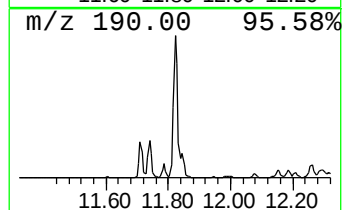
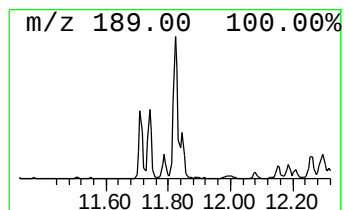
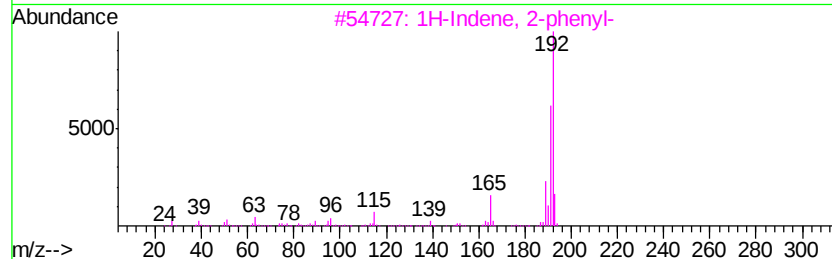
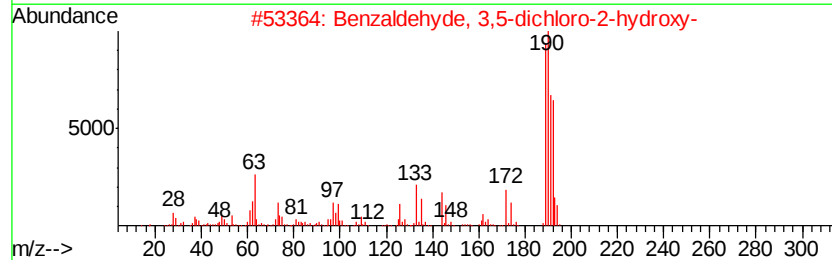
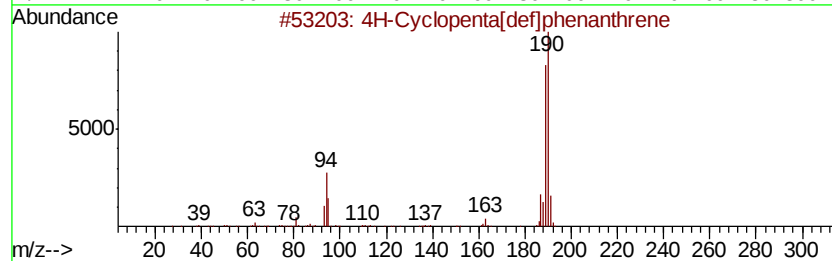
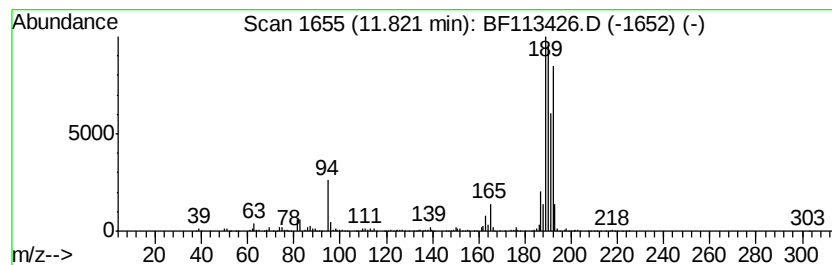
Instrument :
BNA_F
ClientSampleId :
SP-2

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 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.82	19.68 ng	1477970	Phenanthrene-d10	11.21	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	91
2	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	72
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	42
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	38
5	1H-Cyclopropa[1]phenanthrene, 1a, ...	192	C15H12	000949-41-7	38



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032919\
Data File : BF113426.D
Acq On : 29 Mar 2019 21:20
Operator : JU/SJ
Sample : K2153-25 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

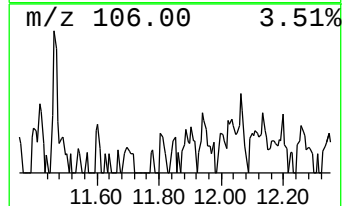
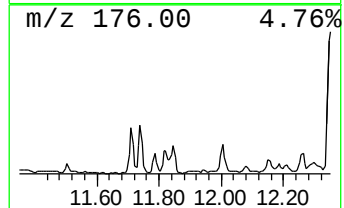
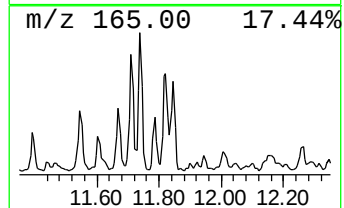
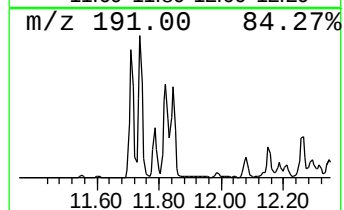
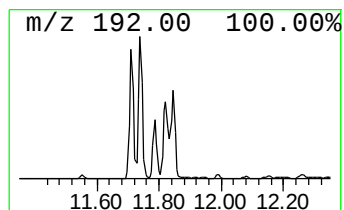
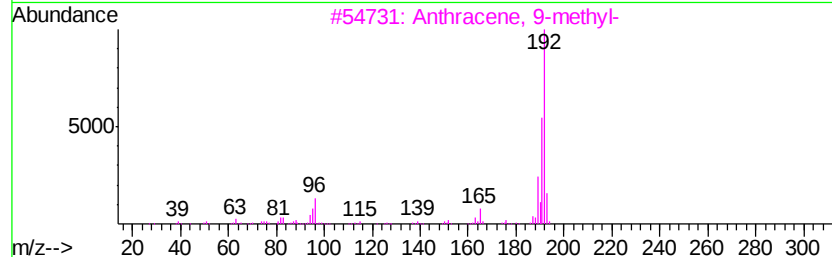
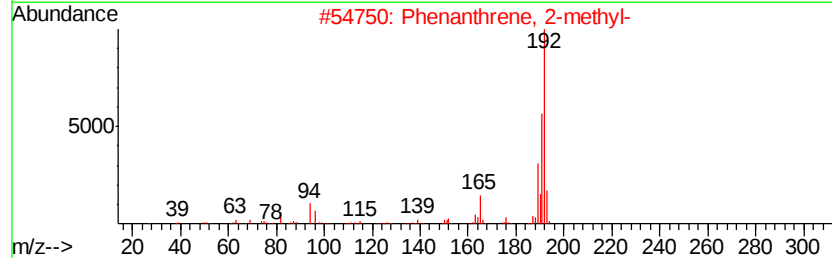
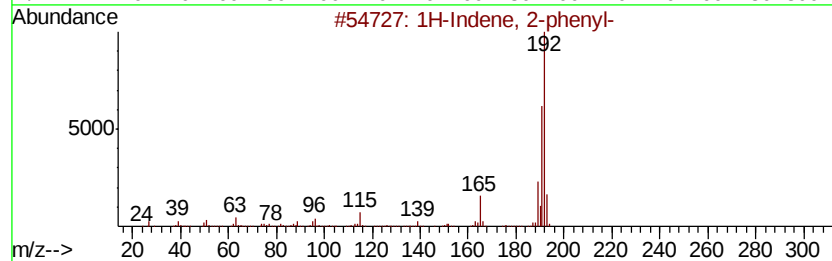
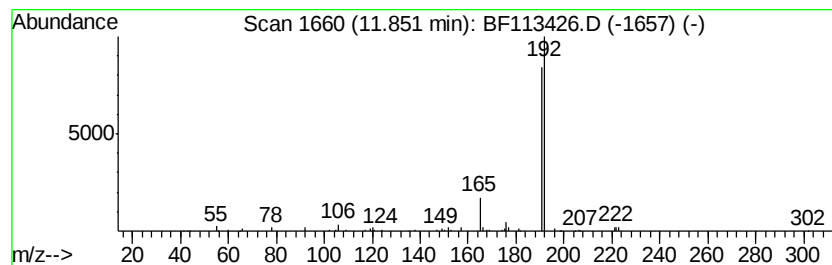
Instrument :
BNA_F
ClientSampleId :
SP-2

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 9 1H-Indene, 2-phenyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD		R.T.
11.85	9.34 ng	701353	Phenanthrene-d10		11.21
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	90
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	90
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	87
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	86



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032919\
Data File : BF113426.D
Acq On : 29 Mar 2019 21:20
Operator : JU/SJ
Sample : K2153-25 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SP-2

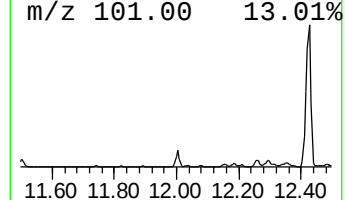
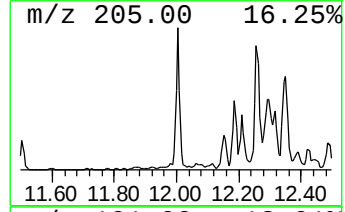
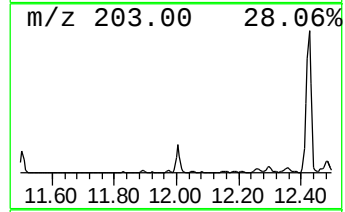
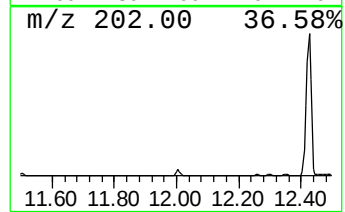
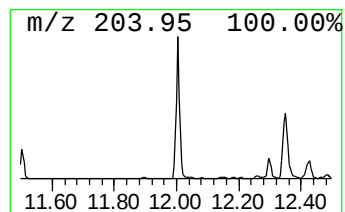
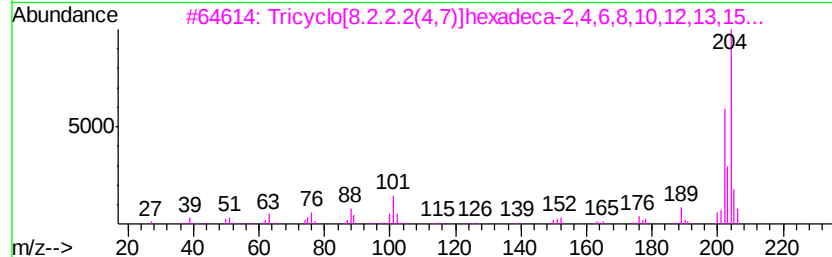
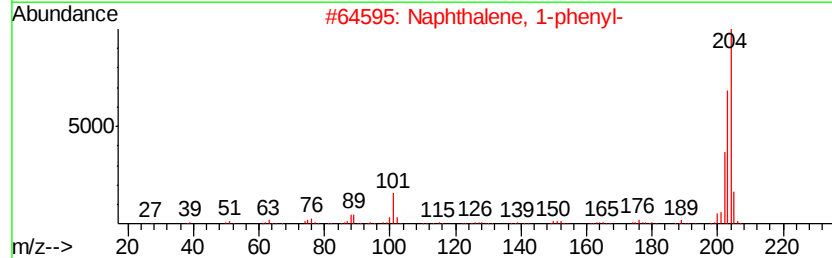
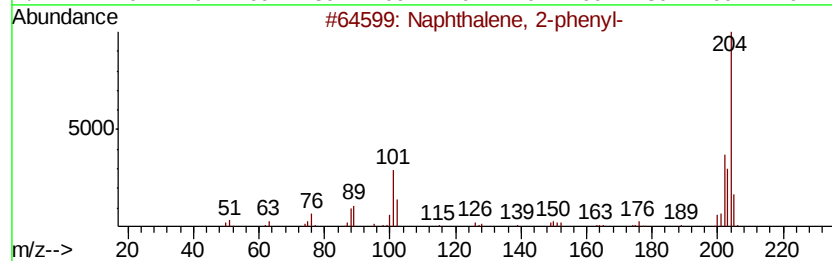
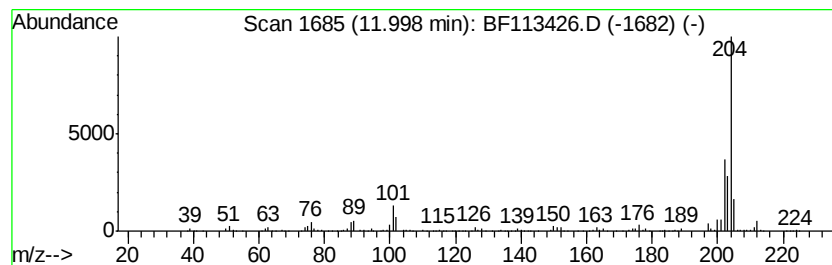
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Acephenanthrylene, 4,5-dihy... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	9.26 ng	695473	Phenanthrene-d10	11.21

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	94
2		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	86
3		Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	64
4		Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	58
5		Pyrazol-5-ol, 3-(3,4-methylenedi...	204	C10H8N2O3	1000271-76-1	53



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032919\
Data File : BF113426.D
Acq On : 29 Mar 2019 21:20
Operator : JU/SJ
Sample : K2153-25 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SP-2

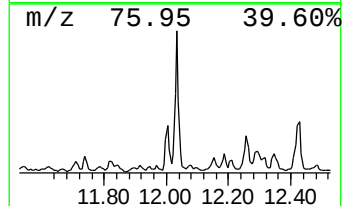
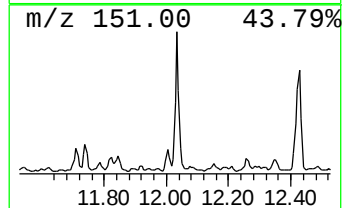
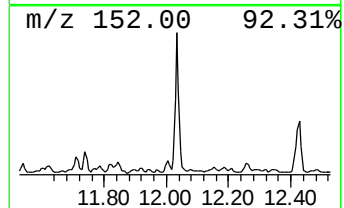
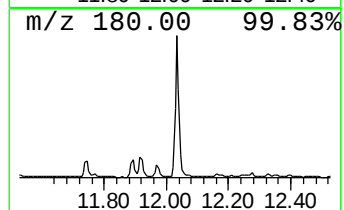
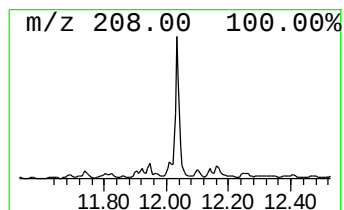
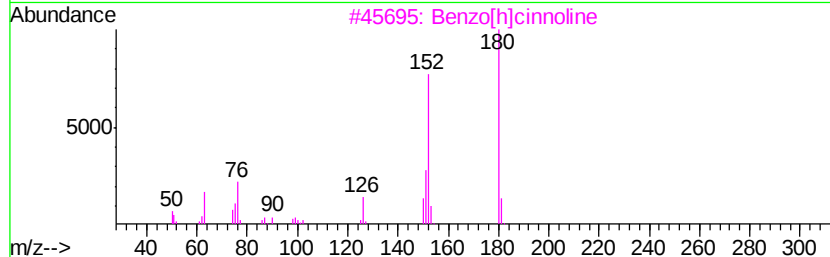
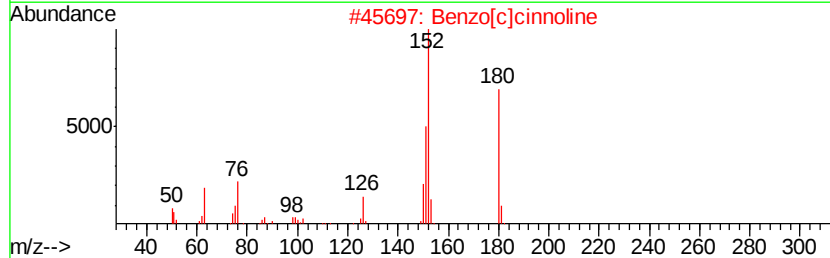
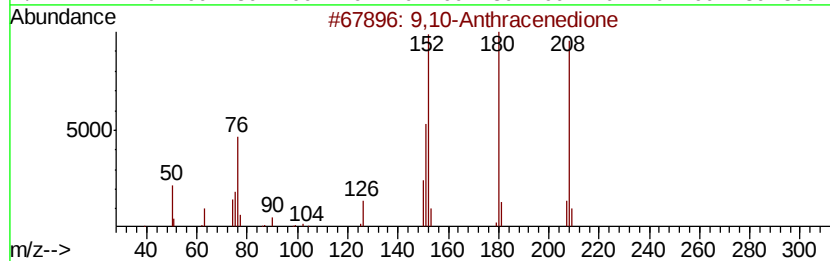
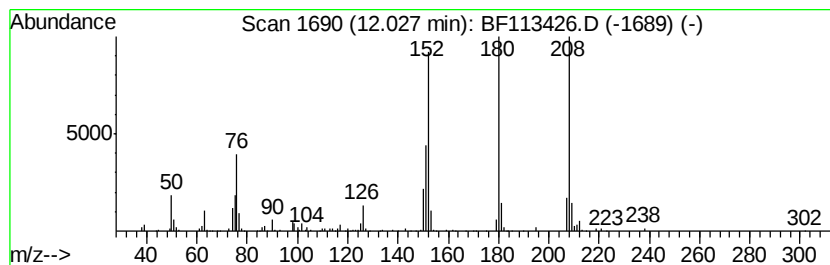
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 9,10-Anthracenedione Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.03	6.25 ng	469865	Phenanthrene-d10	11.21

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2		Benzo[c]cinnoline	180	C12H8N2	000230-17-1	64
3		Benzo[h]cinnoline	180	C12H8N2	000230-31-9	60
4		1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
5		9H-Fluoren-9-one	180	C13H8O	000486-25-9	58



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032919\
Data File : BF113426.D
Acq On : 29 Mar 2019 21:20
Operator : JU/SJ
Sample : K2153-25 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SP-2

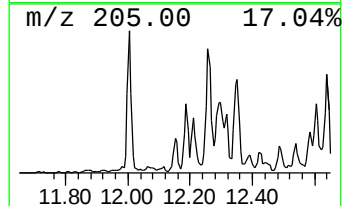
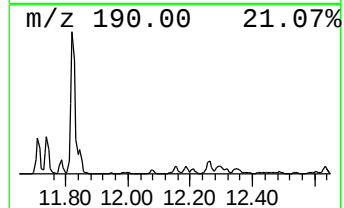
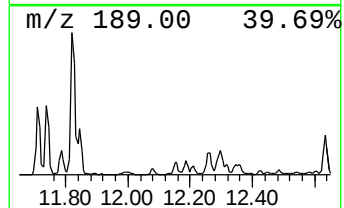
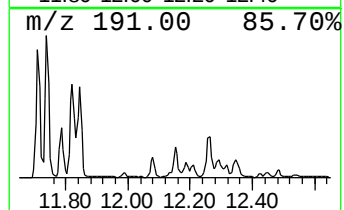
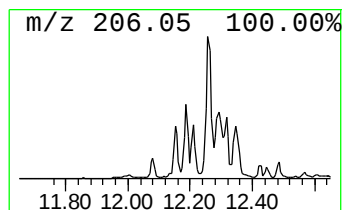
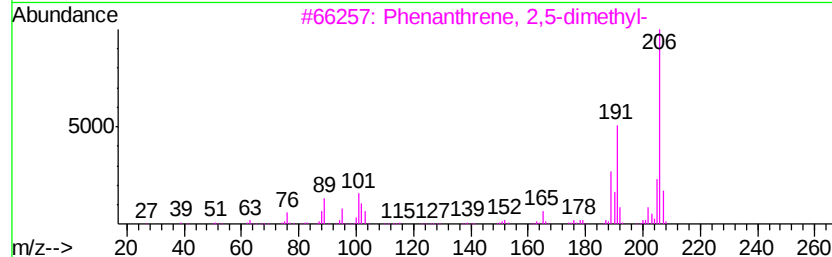
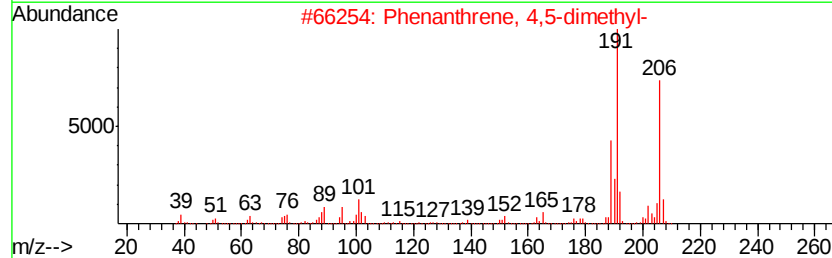
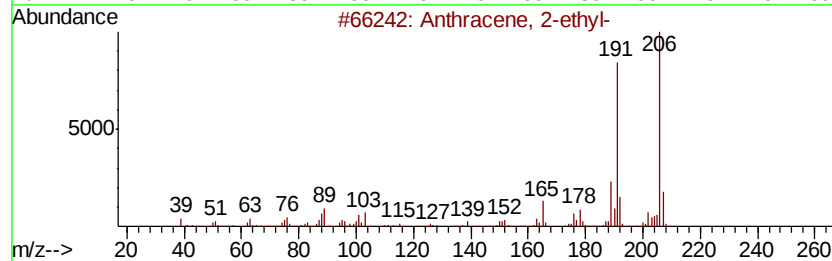
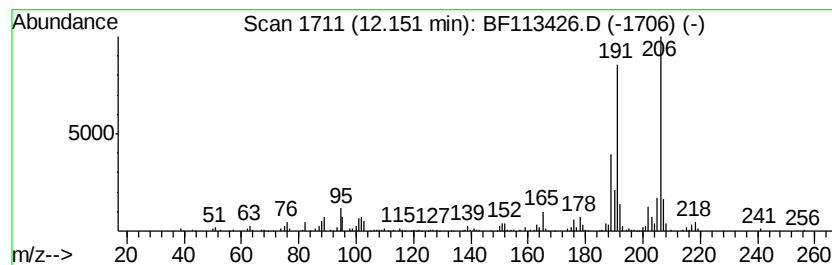
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Anthracene, 2-ethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.15	4.96 ng	372448	Phenanthrene-d10	11.21

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Anthracene, 2-ethyl-	206	C16H14	052251-71-5	96
2			Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
3			Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	90
4			Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90
5			Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	86



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032919\
Data File : BF113426.D
Acq On : 29 Mar 2019 21:20
Operator : JU/SJ
Sample : K2153-25 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SP-2

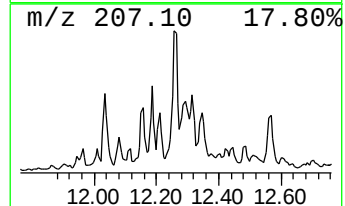
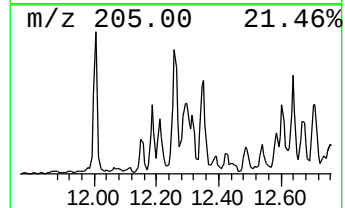
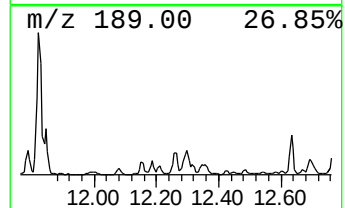
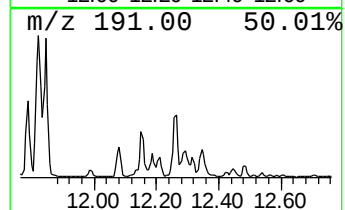
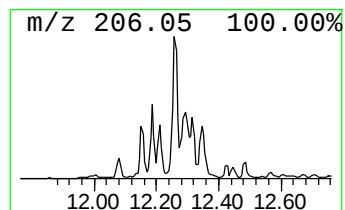
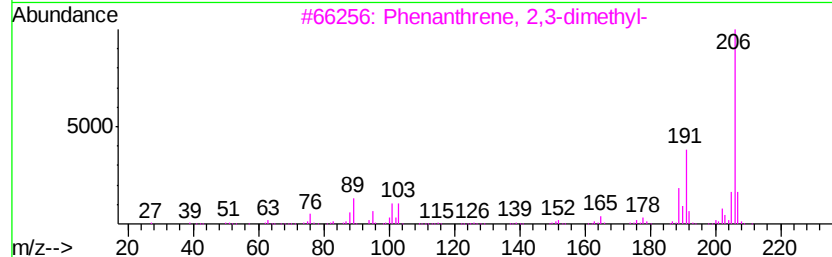
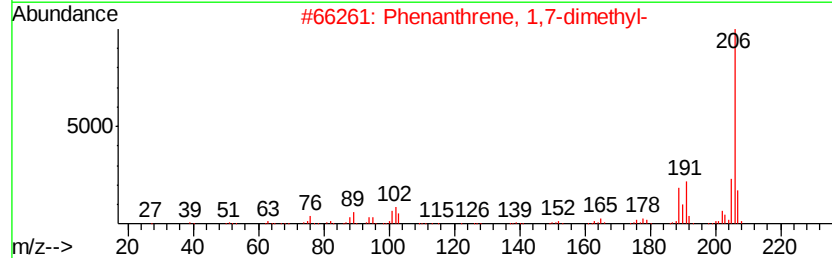
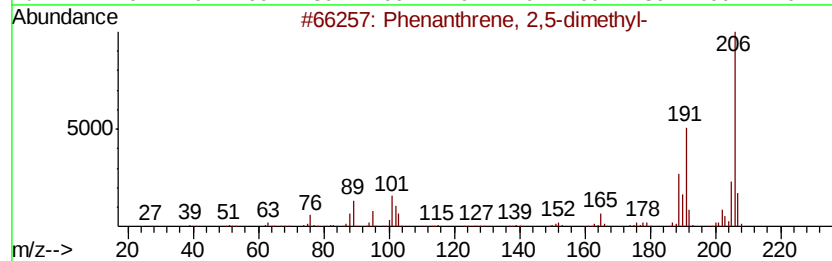
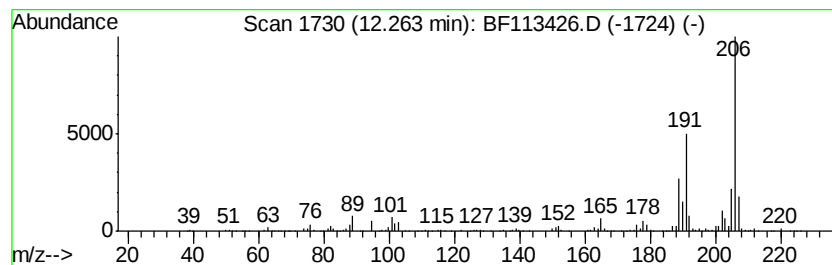
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Phenanthrene, 2,5-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.26	8.96 ng	672966	Phenanthrene-d10	11.21

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2			Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
3			Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
4			Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
5			9,10-Dimethylantracene	206	C16H14	000781-43-1	91



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032919\
Data File : BF113426.D
Acq On : 29 Mar 2019 21:20
Operator : JU/SJ
Sample : K2153-25 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SP-2

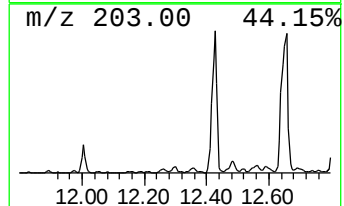
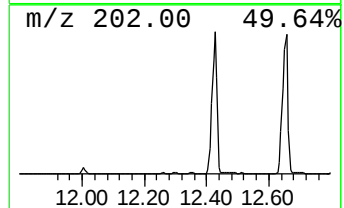
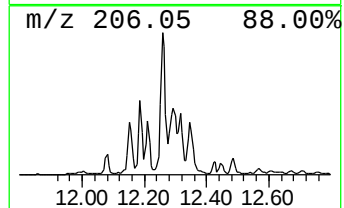
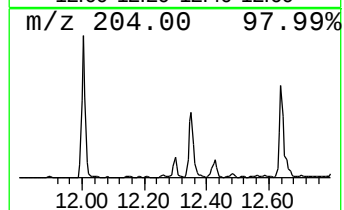
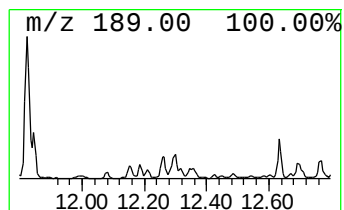
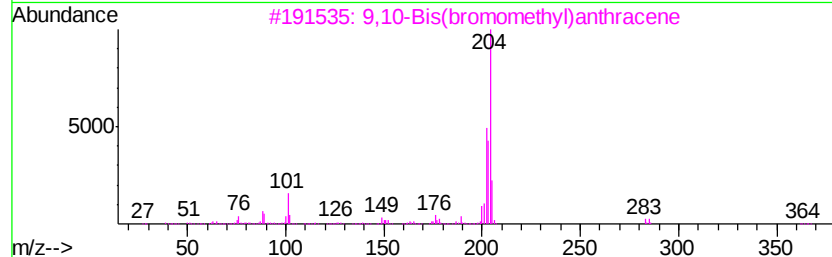
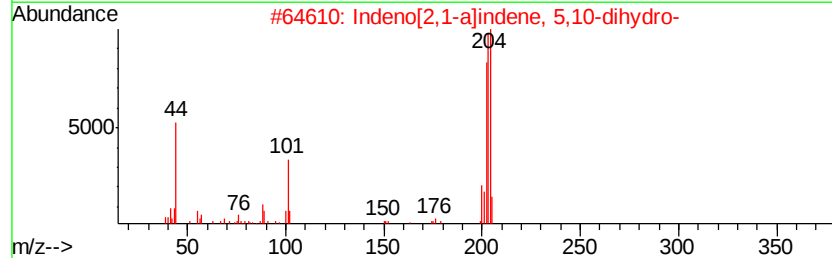
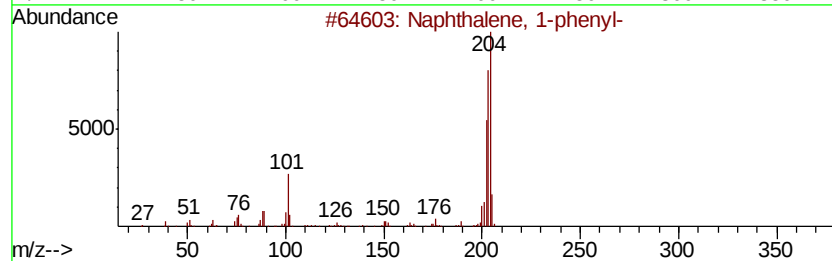
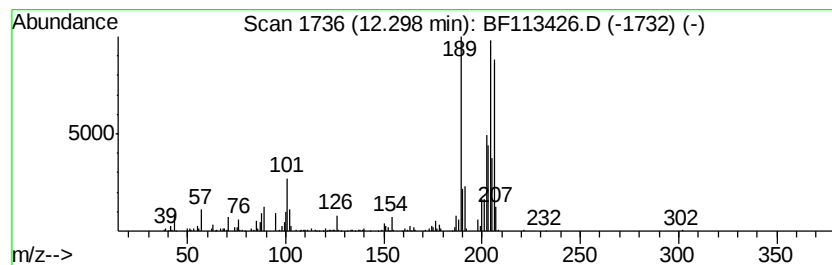
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Naphthalene, 1-phenyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.30	6.78 ng	509194	Phenanthrene-d10	11.21

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	44
2			Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	41
3			9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	35
4			Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	35
5			9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	35



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032919\
Data File : BF113426.D
Acq On : 29 Mar 2019 21:20
Operator : JU/SJ
Sample : K2153-25 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SP-2

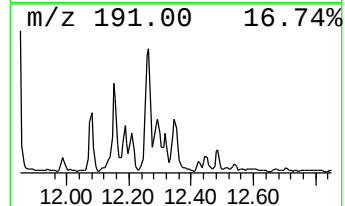
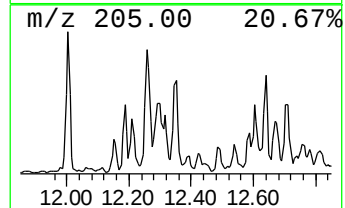
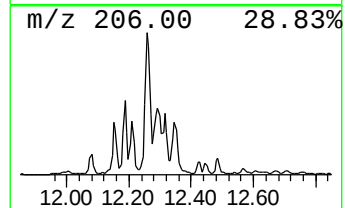
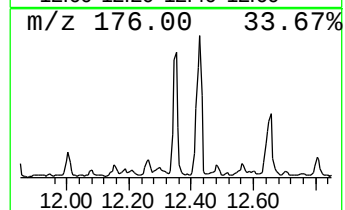
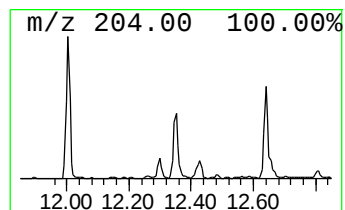
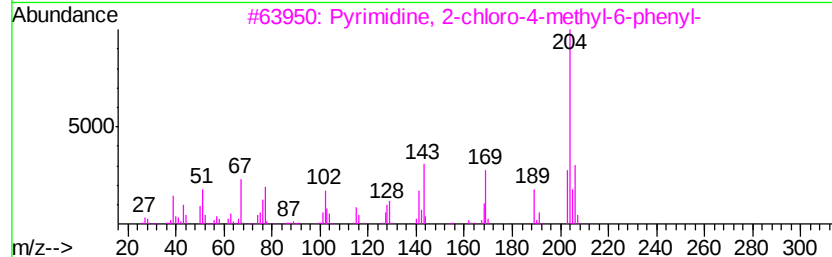
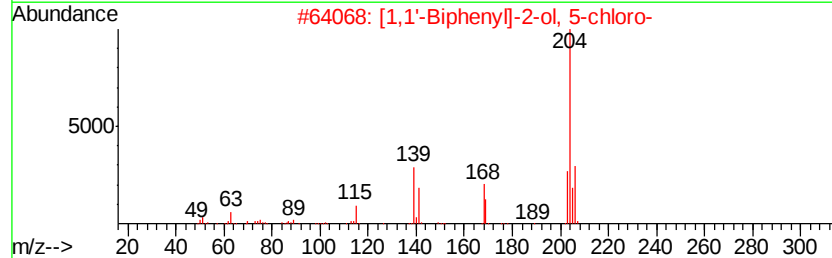
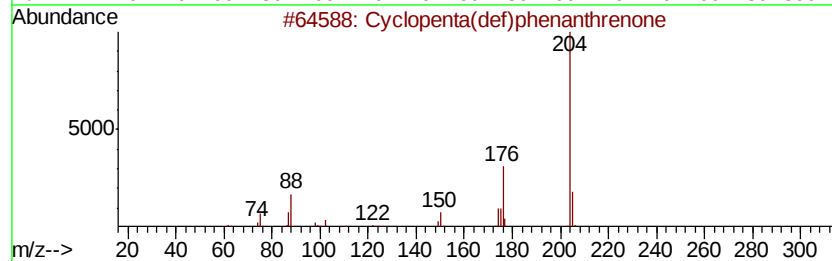
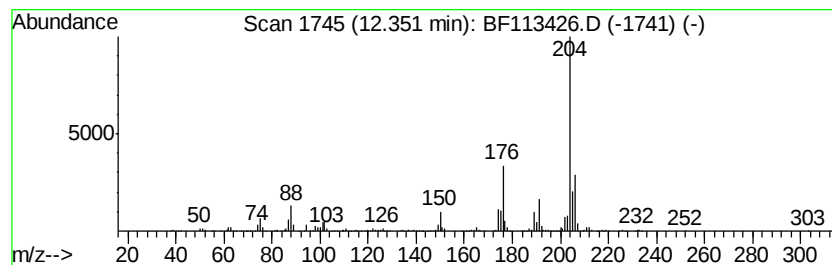
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Cyclopenta(def)phenanthrenone Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.35	7.58 ng	569448	Phenanthrene-d10	11.21

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2		[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	49
3		Pyrimidine, 2-chloro-4-methyl-6-...	204	C11H9ClN2	032785-40-3	47
4		Pyrimido[5,4-b]benzofurane, 4-ch...	204	C10H5ClN2O	039876-88-5	43
5		3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	43



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032919\
Data File : BF113426.D
Acq On : 29 Mar 2019 21:20
Operator : JU/SJ
Sample : K2153-25 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SP-2

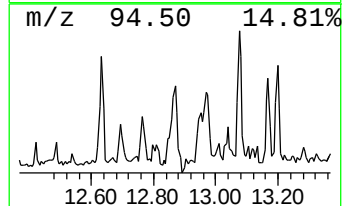
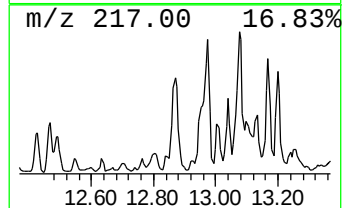
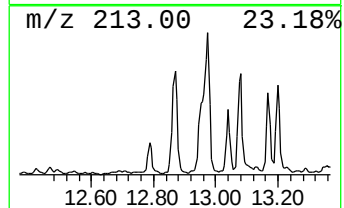
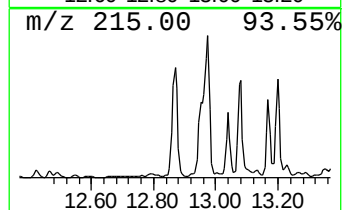
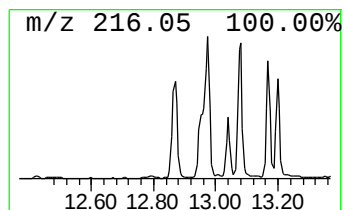
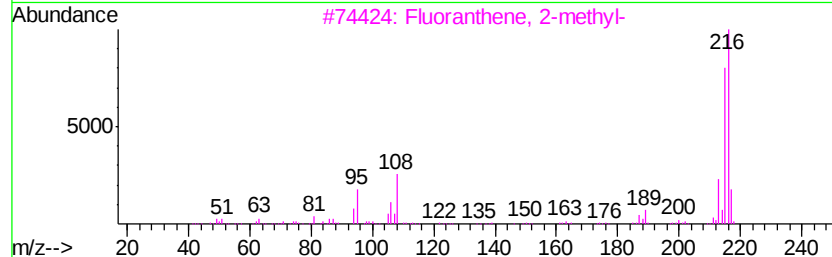
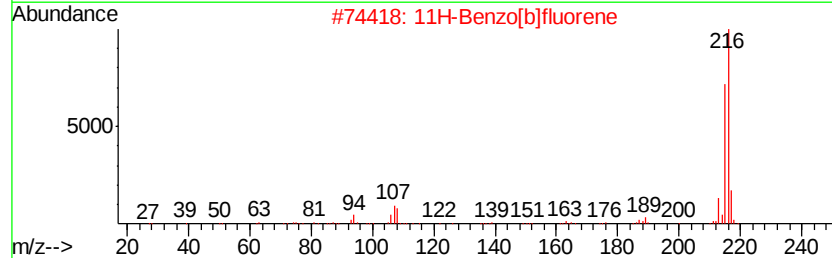
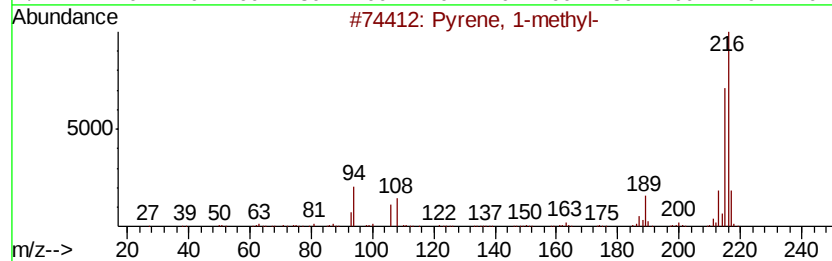
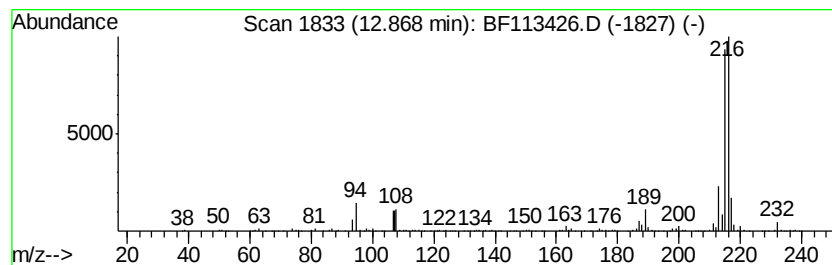
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Pyrene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.87	3.79 ng	901628	Chrysene-d12	13.84

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	97
2		11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
3		Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
4		Pyrene, 2-methyl-	216	C17H12	003442-78-2	86
5		7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032919\
Data File : BF113426.D
Acq On : 29 Mar 2019 21:20
Operator : JU/SJ
Sample : K2153-25 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

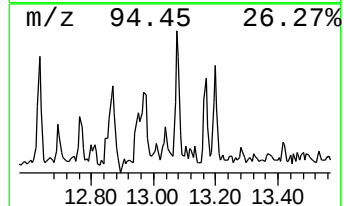
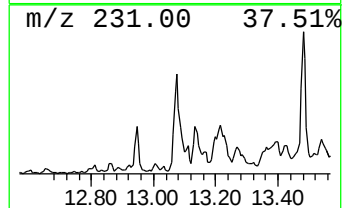
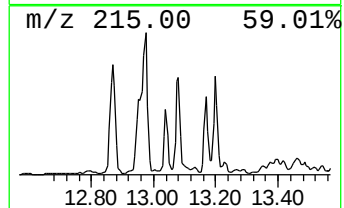
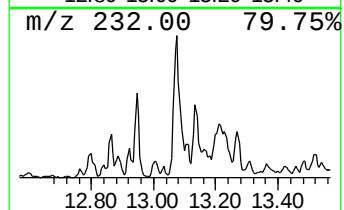
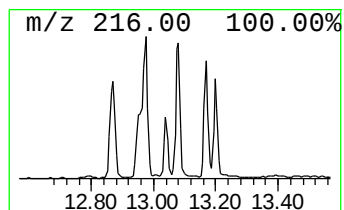
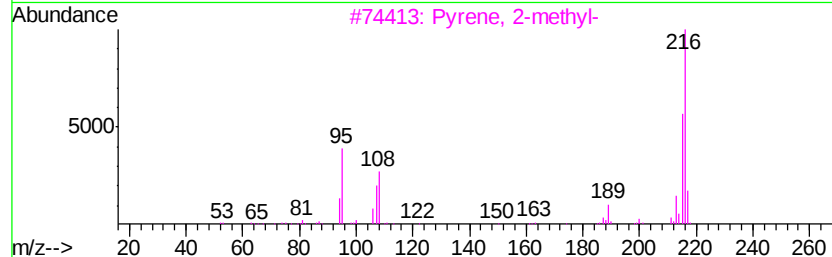
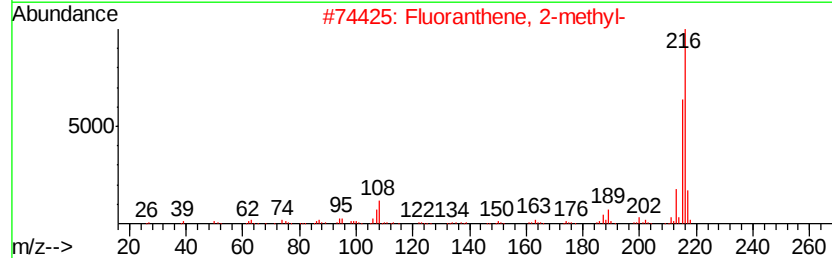
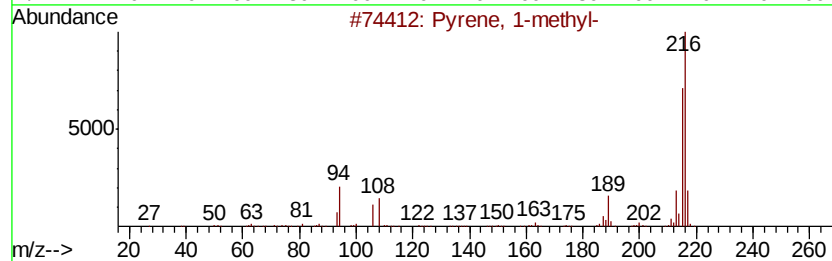
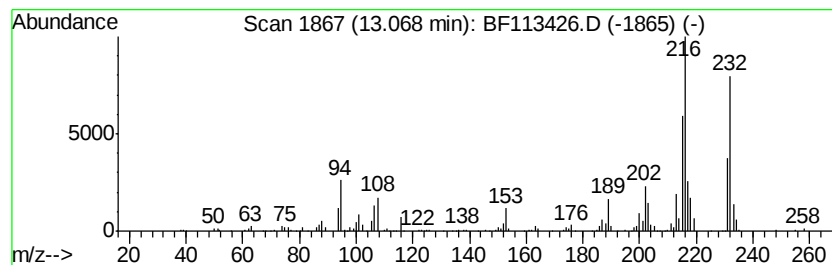
Instrument :
BNA_F
ClientSampleId :
SP-2

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 17 Pyrene, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.		
13.07	3.34 ng	794339	Chrysene-d12	13.84		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Pyrene, 1-methyl-	216	C17H12	002381-21-7	98
2		Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	96
3		Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
4		Pyrene, 4-methyl-	216	C17H12	003353-12-6	92
5		11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032919\
Data File : BF113426.D
Acq On : 29 Mar 2019 21:20
Operator : JU/SJ
Sample : K2153-25 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SP-2

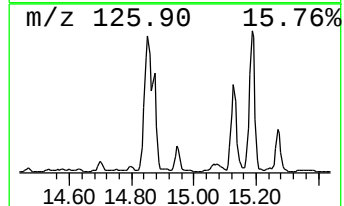
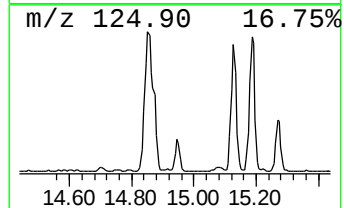
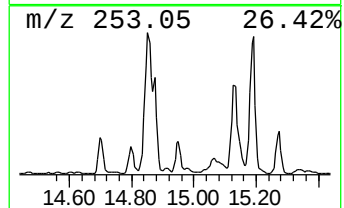
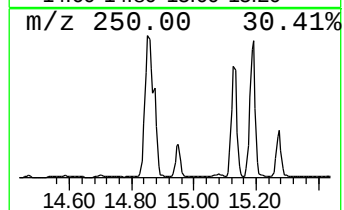
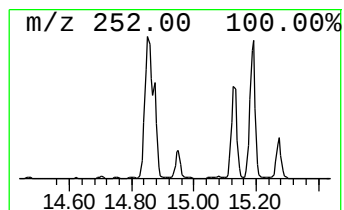
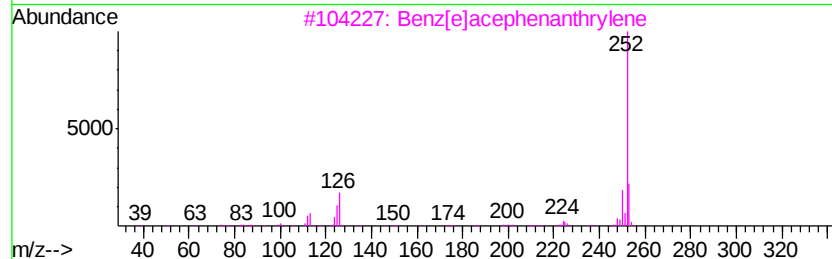
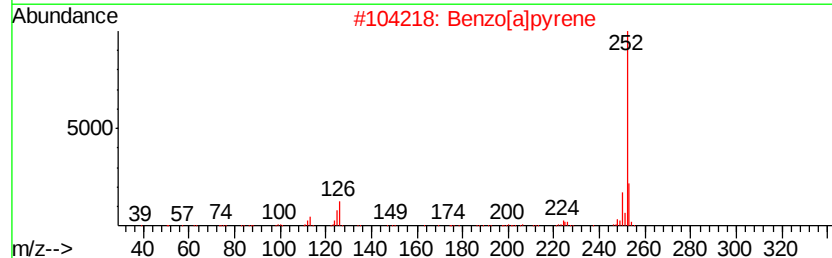
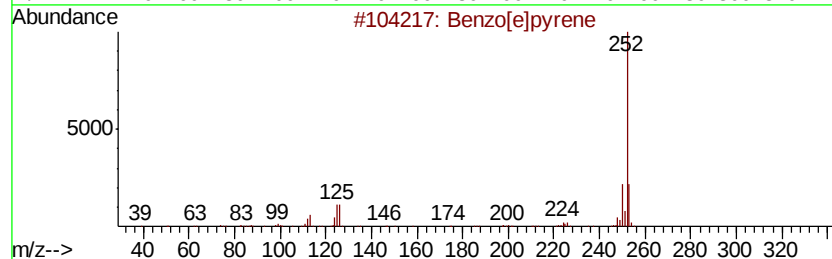
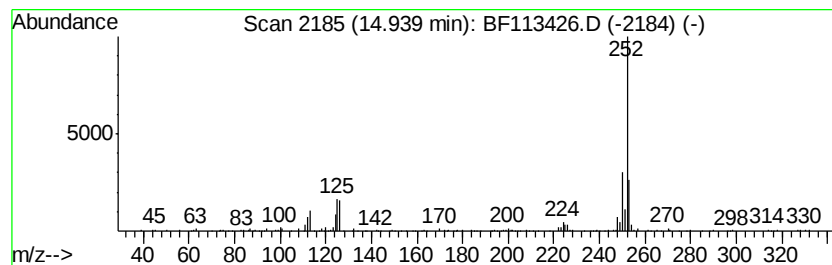
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Benzo[e]pyrene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.94	5.03 ng	355809	Perylene-d12	15.24

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2		Benzo[a]pyrene	252	C20H12	000050-32-8	97
3		Benz[e]acephenanthrylene	252	C20H12	000205-99-2	96
4		Perylene	252	C20H12	000198-55-0	93
5		Benzo[k]fluoranthene	252	C20H12	000207-08-9	90



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032919\
Data File : BF113426.D
Acq On : 29 Mar 2019 21:20
Operator : JU/SJ
Sample : K2153-25 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SP-2

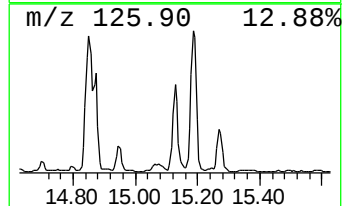
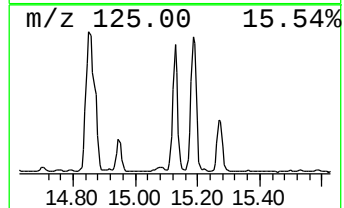
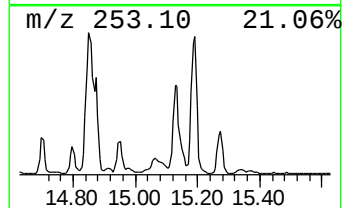
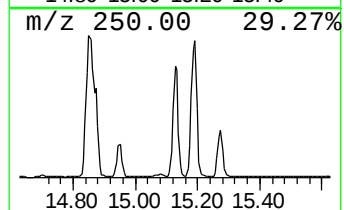
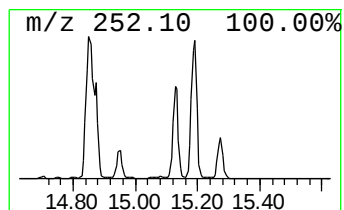
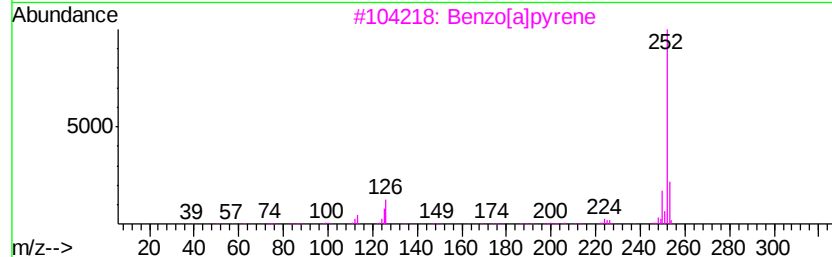
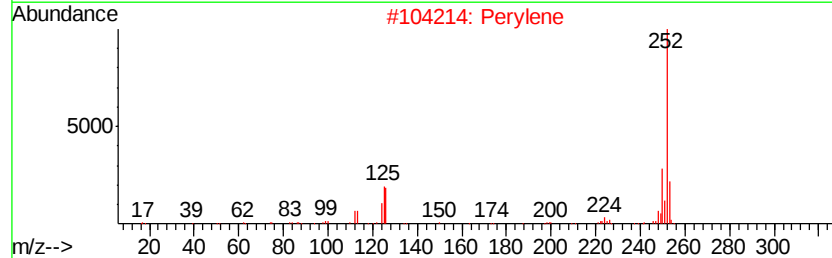
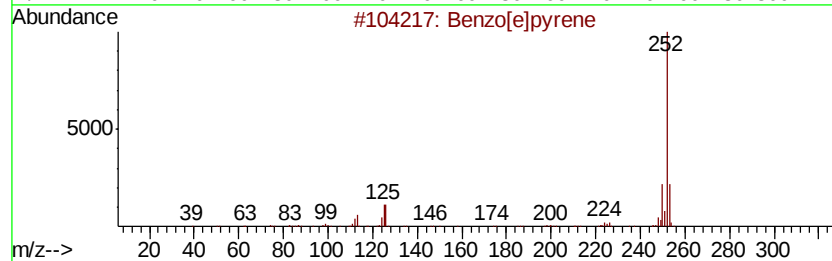
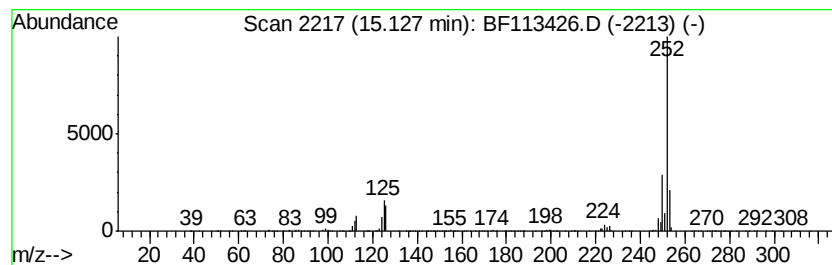
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Perylene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.13	21.82 ng	1544410	Perylene-d12	15.24

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Benzo[e]pyrene	252	C20H12	000192-97-2	98
2		Perylene	252	C20H12	000198-55-0	96
3		Benzo[a]pyrene	252	C20H12	000050-32-8	93
4		Benzo[k]fluoranthene	252	C20H12	000207-08-9	91
5		Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032919\
Data File : BF113426.D
Acq On : 29 Mar 2019 21:20
Operator : JU/SJ
Sample : K2153-25 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SP-2

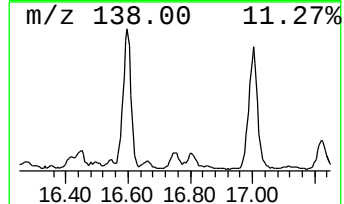
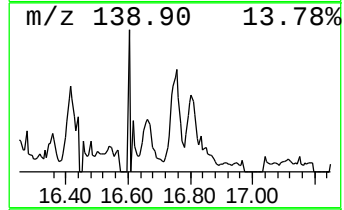
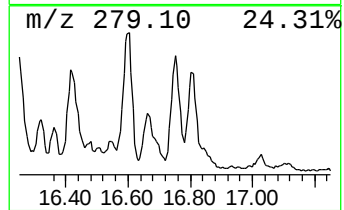
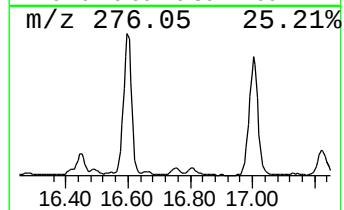
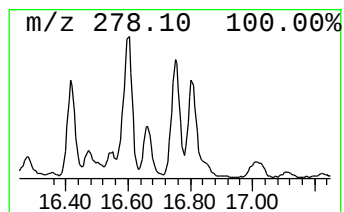
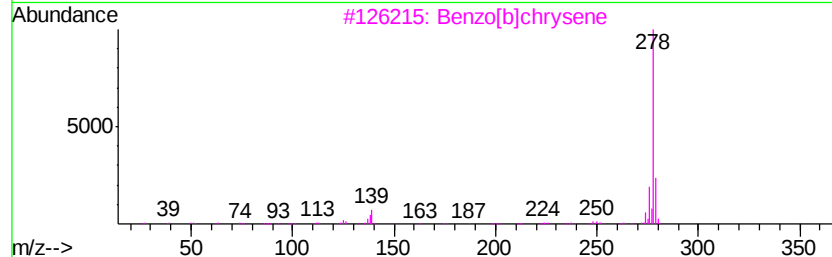
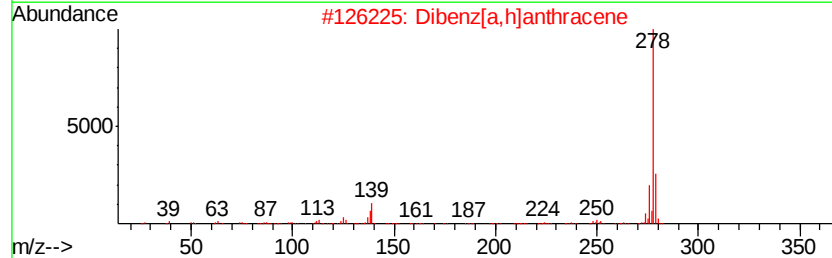
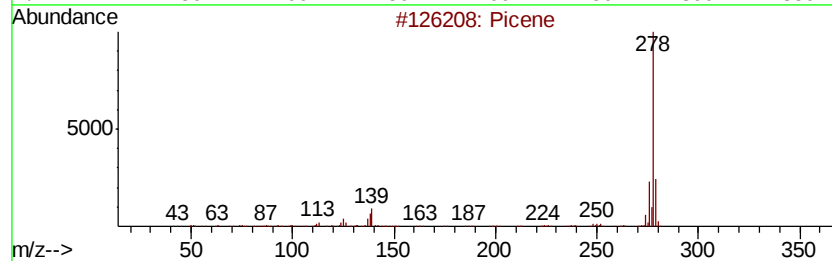
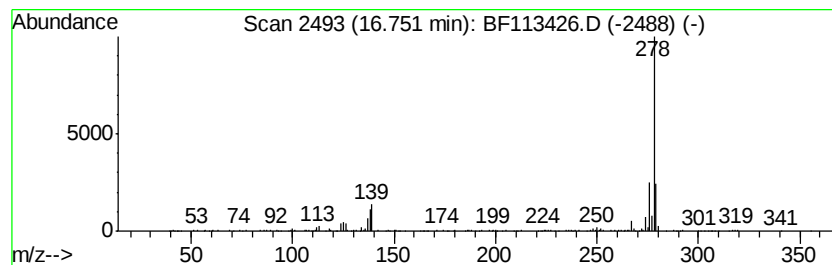
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Picene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.75	3.75 ng	265625	Perylene-d12	15.24

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Picene	278	C22H14	000213-46-7	98
2		Dibenz[a,h]anthracene	278	C22H14	000053-70-3	97
3		Benzo[b]chrysene	278	C22H14	000214-17-5	95
4		Pentaphene	278	C22H14	000222-93-5	93
5		Benzo[b]triphenylene	278	C22H14	000215-58-7	92



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032919\
 Data File : BF113426.D
 Acq On : 29 Mar 2019 21:20
 Operator : JU/SJ
 Sample : K2153-25 2X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-2

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
unknown6.47	6.47	36.4	ng	1590610	1	6.70	874350	20.0
9H-Fluoren-9-one	11.02	4.6	ng	346029	4	11.21	1502380	20.0
Dibenzothiophene	11.10	5.1	ng	380867	4	11.21	1502380	20.0
Phenanthrene, 2-m...	11.71	14.5	ng	1091450	4	11.21	1502380	20.0
Anthracene, 2-met...	11.74	17.0	ng	1274160	4	11.21	1502380	20.0
Phenanthrene, 3-m...	11.79	6.0	ng	449712	4	11.21	1502380	20.0
4H-Cyclopenta[def...	11.82	19.7	ng	1477970	4	11.21	1502380	20.0
1H-Indene, 2-phenyl-	11.85	9.3	ng	701353	4	11.21	1502380	20.0
Acephenanthrylene...	12.00	9.3	ng	695473	4	11.21	1502380	20.0
9,10-Anthracenedione	12.03	6.3	ng	469865	4	11.21	1502380	20.0
Anthracene, 2-ethyl-	12.15	5.0	ng	372448	4	11.21	1502380	20.0
Phenanthrene, 2,5...	12.26	9.0	ng	672966	4	11.21	1502380	20.0
Naphthalene, 1-ph...	12.30	6.8	ng	509194	4	11.21	1502380	20.0
Cyclopenta(def)ph...	12.35	7.6	ng	569448	4	11.21	1502380	20.0
Pyrene, 1-methyl-	12.87	3.8	ng	901628	5	13.84	4752640	20.0
Pyrene, 2-methyl-	13.07	3.3	ng	794339	5	13.84	4752640	20.0
Benzo[e]pyrene	14.94	5.0	ng	355809	6	15.24	1415900	20.0
Perylene	15.13	21.8	ng	1544410	6	15.24	1415900	20.0
Picene	16.75	3.8	ng	265625	6	15.24	1415900	20.0