

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080819\
 Data File : BF116096.D
 Acq On : 9 Aug 2019 4:17
 Operator : HP/JU
 Sample : K4192-02 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TRIPLE-BARREL-BC-WEST

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	5.463	571	574	597	rBV	479227	660344	19.81%	1.681%
2	6.481	744	747	766	rBV	463553	748366	22.45%	1.905%
3	6.616	766	770	786	rVB	735935	805441	24.17%	2.051%
4	6.839	804	808	817	rBV	842415	827692	24.83%	2.107%
5	6.992	831	834	847	rBV	720261	635279	19.06%	1.617%
6	7.398	900	903	924	rBV	406834	473754	14.21%	1.206%
7	8.116	1022	1025	1048	rVB	1216545	1203839	36.12%	3.065%
8	8.833	1144	1147	1151	rBV	52331	54125	1.62%	0.138%
9	8.927	1160	1163	1171	rVB	65236	69471	2.08%	0.177%
10	9.186	1204	1207	1217	rBV	1067302	967173	29.02%	2.462%
11	9.457	1249	1253	1257	rBV	32808	49622	1.49%	0.126%
12	9.527	1262	1265	1268	rVV	81758	84409	2.53%	0.215%
13	9.580	1272	1274	1280	rVV	151180	157827	4.74%	0.402%
14	9.645	1282	1285	1290	rVB	46161	57998	1.74%	0.148%
15	9.733	1297	1300	1303	rBV	99413	92924	2.79%	0.237%
16	9.869	1317	1323	1326	rBV	1407058	1274002	38.23%	3.243%
17	9.904	1326	1329	1332	rVB	282313	259563	7.79%	0.661%
18	9.980	1338	1342	1346	rVB2	23295	36079	1.08%	0.092%
19	10.027	1346	1350	1354	rBV2	41173	51018	1.53%	0.130%
20	10.074	1354	1358	1361	rVV	154679	151636	4.55%	0.386%
21	10.116	1362	1365	1368	rVB	35908	35208	1.06%	0.090%
22	10.186	1374	1377	1380	rBV	47371	55035	1.65%	0.140%
23	10.280	1388	1393	1394	rBV2	51639	58066	1.74%	0.148%
24	10.416	1413	1416	1422	rBV	252340	260450	7.81%	0.663%
25	10.469	1422	1425	1426	rBV	40194	34627	1.04%	0.088%
26	10.504	1429	1431	1433	rVB2	53621	42444	1.27%	0.108%
27	10.574	1441	1443	1448	rVB	95063	85872	2.58%	0.219%
28	10.657	1454	1457	1463	rBV	470570	535186	16.06%	1.363%
29	10.786	1477	1479	1485	rVB3	53587	65178	1.96%	0.166%
30	10.969	1505	1510	1512	rBV3	79987	99649	2.99%	0.254%
31	10.992	1512	1514	1517	rVB2	49899	45120	1.35%	0.115%
32	11.051	1522	1524	1526	rVB	51633	39123	1.17%	0.100%
33	11.092	1526	1531	1533	rBV3	70161	100387	3.01%	0.256%
34	11.116	1533	1535	1540	rVV2	73758	75538	2.27%	0.192%

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35	11.169	1541	1544	1548	rVV	137160	128422	3.85%	0.327%
36	11.210	1548	1551	1556	rVV3	88679	131649	3.95%	0.335%
37	11.257	1556	1559	1564	rVB	165936	175391	5.26%	0.447%
38	11.357	1572	1576	1578	rBV	1118332	1045823	31.38%	2.663%
39	11.386	1578	1581	1584	rVV	2713447	2464203	73.94%	6.273%
40	11.433	1584	1589	1592	rVV	684024	621703	18.65%	1.583%
41	11.474	1592	1596	1601	rVB2	70706	104185	3.13%	0.265%
42	11.592	1612	1616	1622	rBV2	225122	310590	9.32%	0.791%
43	11.651	1623	1626	1630	rVV3	80378	88246	2.65%	0.225%
44	11.698	1630	1634	1638	rVV4	75424	119268	3.58%	0.304%
45	11.768	1644	1646	1651	rVB	47339	49265	1.48%	0.125%
46	11.821	1652	1655	1658	rVV2	39758	50857	1.53%	0.129%
47	11.857	1658	1661	1663	rVV	430499	391153	11.74%	0.996%
48	11.886	1663	1666	1671	rVV	723000	722739	21.69%	1.840%
49	11.933	1671	1674	1677	rVV	205082	202902	6.09%	0.517%
50	11.968	1677	1680	1683	rVV2	555110	687570	20.63%	1.750%
51	11.992	1683	1684	1689	rVB	332854	232147	6.97%	0.591%
52	12.039	1690	1692	1695	rBV2	42863	50236	1.51%	0.128%
53	12.092	1699	1701	1703	rBV	48674	41246	1.24%	0.105%
54	12.151	1708	1711	1714	rVV	297606	268955	8.07%	0.685%
55	12.186	1714	1717	1721	rVB	240713	228916	6.87%	0.583%
56	12.304	1734	1737	1740	rVB	96826	85439	2.56%	0.218%
57	12.333	1740	1742	1744	rBV	96598	76377	2.29%	0.194%
58	12.357	1744	1746	1749	rVB	77420	69945	2.10%	0.178%
59	12.410	1752	1755	1758	rBV	281640	289877	8.70%	0.738%
60	12.445	1758	1761	1764	rVV2	151452	219504	6.59%	0.559%
61	12.504	1767	1771	1774	rBV2	210150	243576	7.31%	0.620%
62	12.574	1779	1783	1787	rBV	3024911	3050693	91.53%	7.767%
63	12.639	1792	1794	1796	rVB	99897	77375	2.32%	0.197%
64	12.668	1796	1799	1802	rBV2	122785	126220	3.79%	0.321%
65	12.804	1816	1822	1828	rBV	2742637	3332818	100.00%	8.485%
66	12.851	1828	1830	1835	rVB2	145942	181012	5.43%	0.461%
67	12.939	1839	1845	1847	rBV2	714839	845161	25.36%	2.152%
68	12.963	1847	1849	1853	rVB	180171	177077	5.31%	0.451%
69	13.021	1855	1859	1862	rBV2	205072	336199	10.09%	0.856%
70	13.127	1875	1877	1880	rVB	376211	356307	10.69%	0.907%
71	13.198	1886	1889	1891	rVB	177557	142140	4.26%	0.362%

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72	13.233	1891	1895	1899	rBV2	359652	440848	13.23%	1.122%
73	13.327	1908	1911	1914	rBV	210561	189460	5.68%	0.482%
74	13.357	1914	1916	1919	rBV	212248	205491	6.17%	0.523%
75	13.645	1962	1965	1968	rVB	299844	276801	8.31%	0.705%
76	13.751	1980	1983	1985	rBV	298046	297294	8.92%	0.757%
77	13.774	1985	1987	1989	rVB	244564	178221	5.35%	0.454%
78	13.804	1989	1992	1993	rBV	195869	169975	5.10%	0.433%
79	13.851	1998	2000	2004	rVB	327607	346079	10.38%	0.881%
80	13.998	2021	2025	2028	rBV2	1589527	2257544	67.74%	5.747%
81	14.027	2028	2030	2033	rVB	1303491	1228957	36.87%	3.129%
82	14.109	2042	2044	2047	rVB	201766	154233	4.63%	0.393%
83	15.051	2199	2204	2207	rBV	1051818	1715281	51.47%	4.367%
84	15.351	2251	2255	2261	rVB	597298	795416	23.87%	2.025%
85	15.415	2261	2266	2271	rBV	897092	1177792	35.34%	2.998%
86	15.474	2272	2276	2279	rBV	482730	607376	18.22%	1.546%
87	16.945	2521	2526	2533	rVB	366644	730080	21.91%	1.859%
88	17.392	2597	2602	2613	rVB	280269	591136	17.74%	1.505%

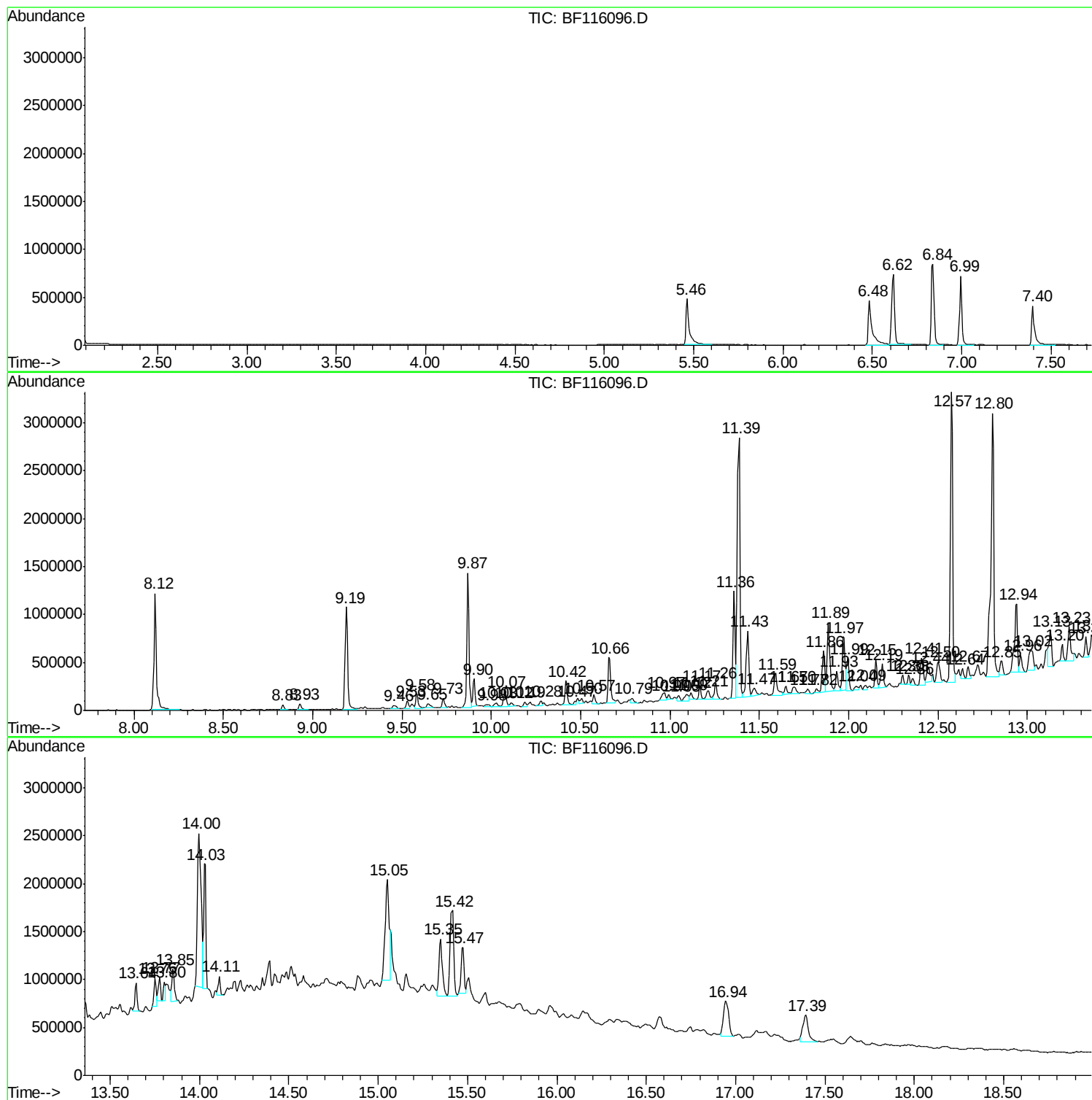
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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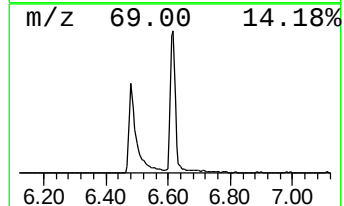
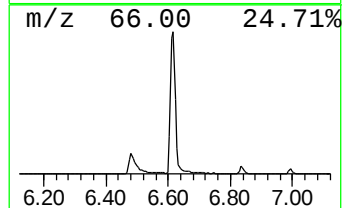
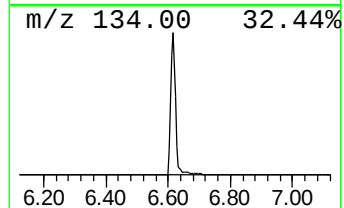
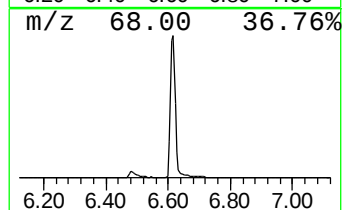
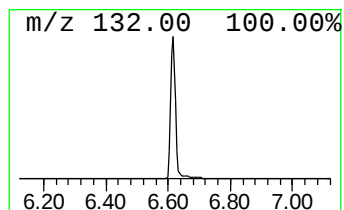
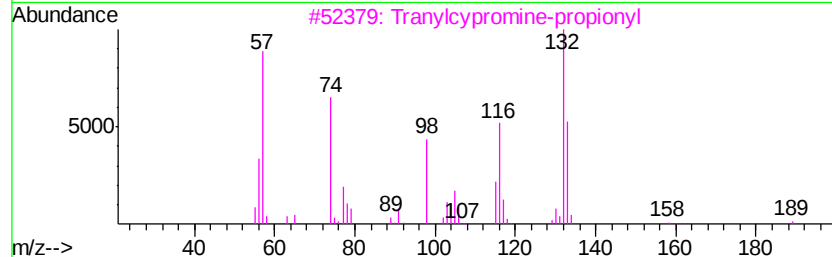
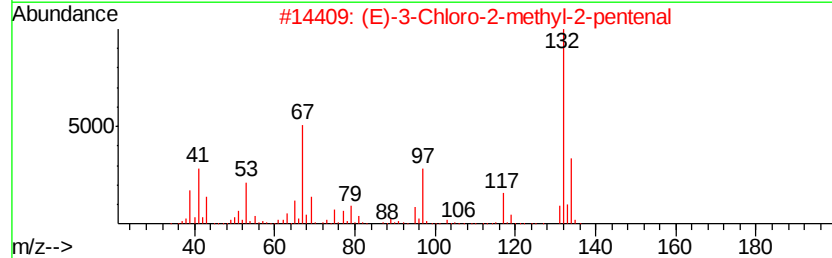
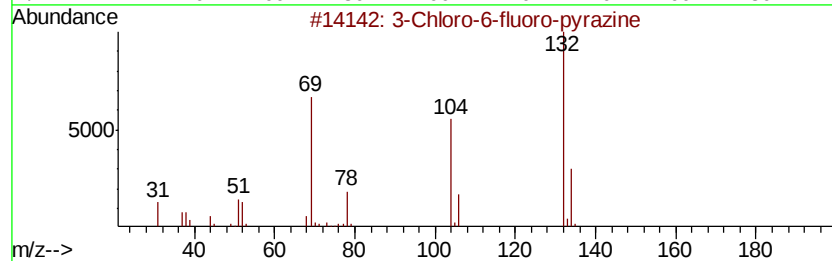
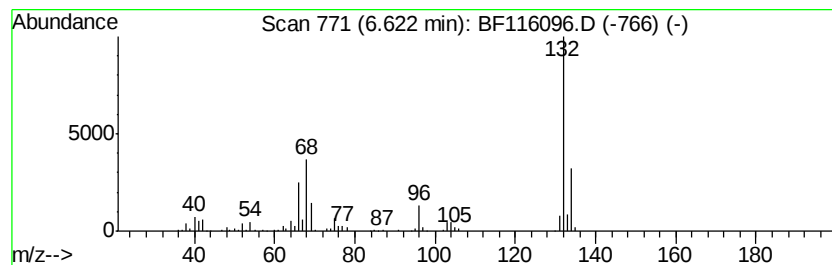
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 unknown6.62 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.62	19.46 ng	805441	1,4-Dichlorobenzene-d4	6.84

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		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		4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	9



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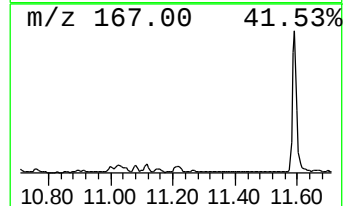
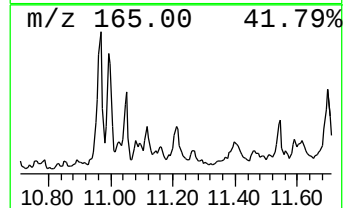
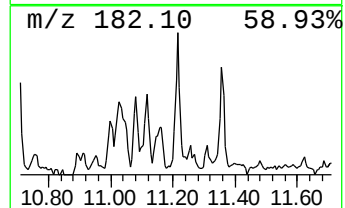
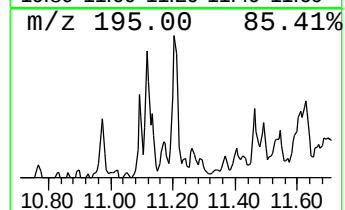
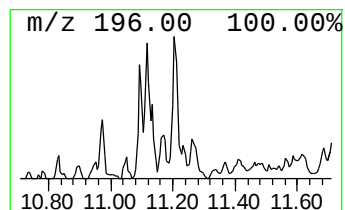
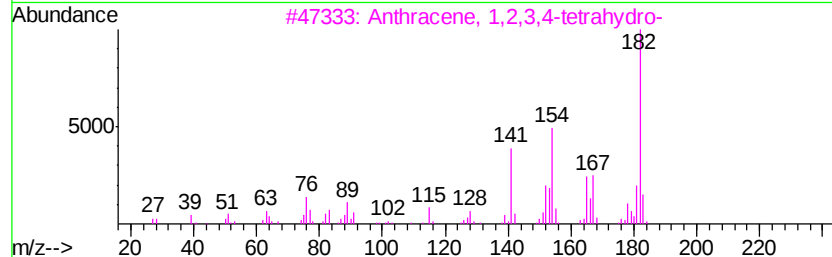
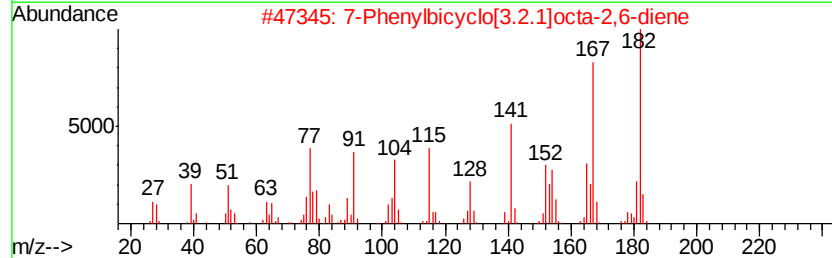
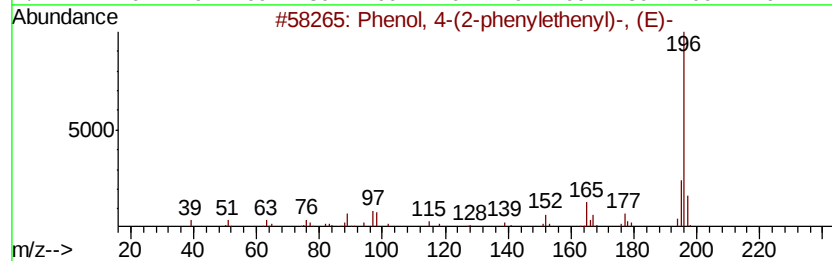
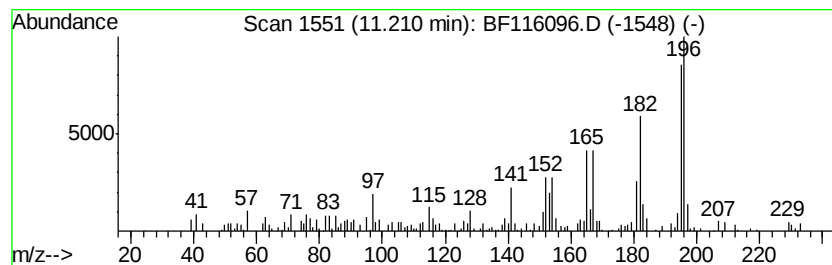
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 unknown11.21 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.21	2.52 ng	131649	Phenanthrene-d10	11.36	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	46
2	7-Phenylbicyclo[3.2.1]octa-2,6-d...	182	C14H14	1000201-01-7	42
3	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	38
4	Naphtho[2,1-b]furan, 1,2-dimethyl-	196	C14H12O	129812-23-3	38
5	Phenanthrene, 1,2,3,4-tetrahydro-	182	C14H14	001013-08-7	35



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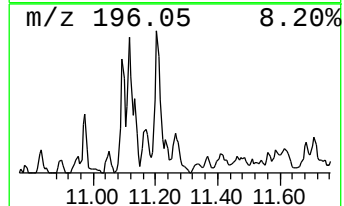
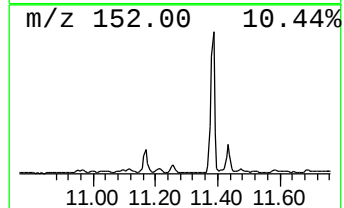
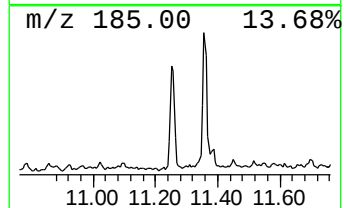
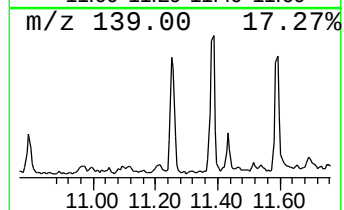
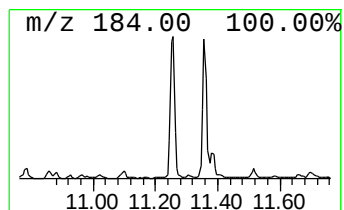
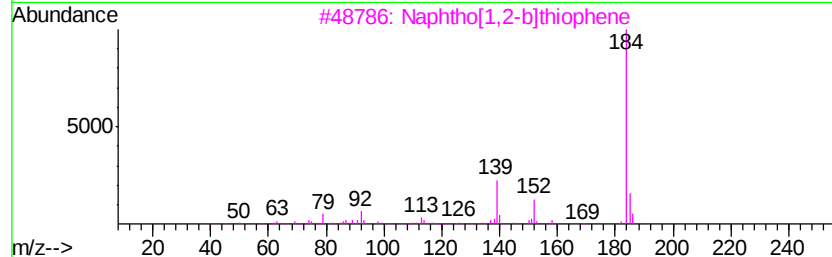
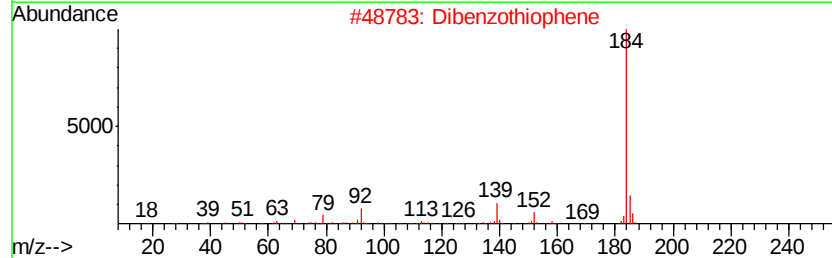
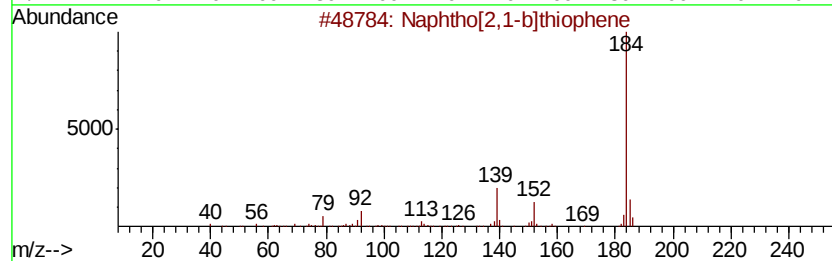
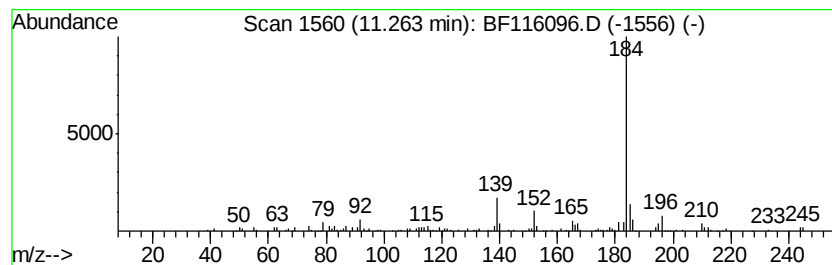
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Naphtho[2,1-b]thiophene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.26	3.35 ng	175391	Phenanthrene-d10	11.36
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Naphtho[2,1-b]thiophene	184 C12H8S	000233-02-3 97
2		Dibenzothiophene	184 C12H8S	000132-65-0 95
3		Naphtho[1,2-b]thiophene	184 C12H8S	000234-41-3 93
4		Naphtho[2,3-b]thiophene	184 C12H8S	000268-77-9 90
5		Azuleno(2,1-b)thiophene	184 C12H8S	000248-13-5 90



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Misc :
ALS Vial : 23 Sample Multiplier: 1

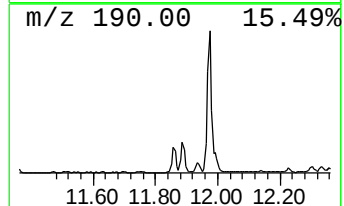
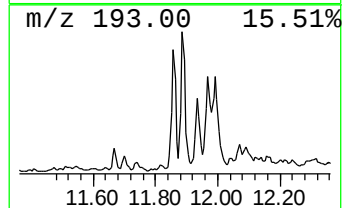
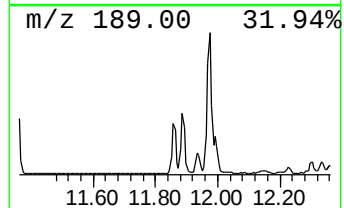
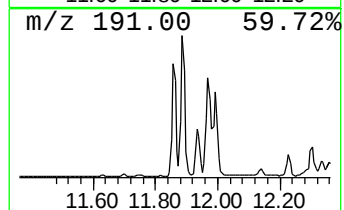
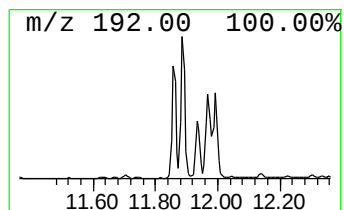
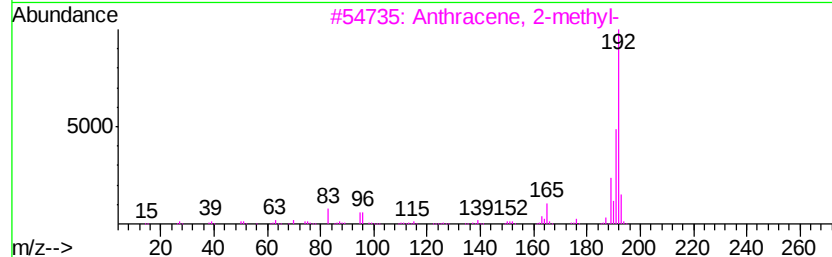
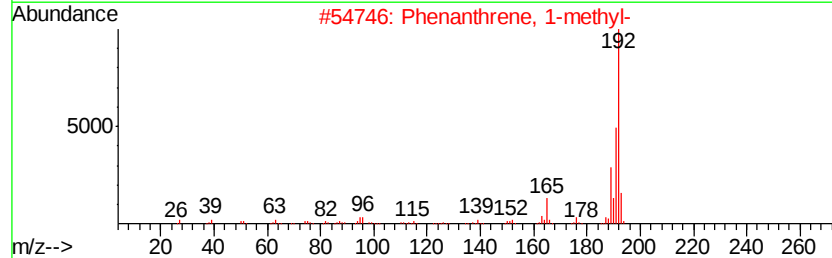
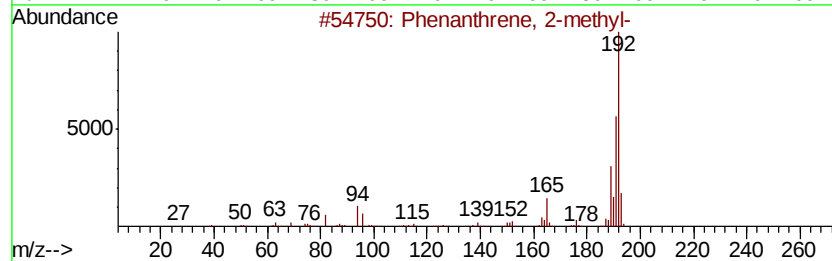
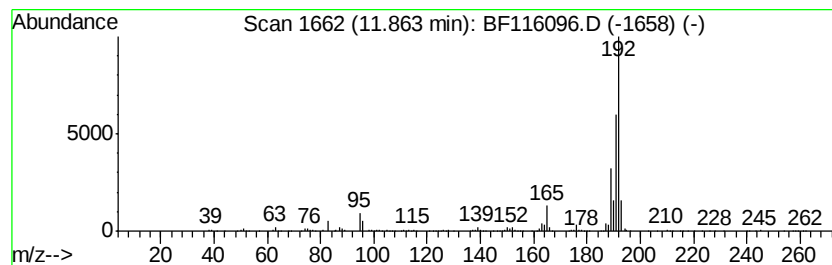
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BNA_F
ClientSampleId :
TRIPLE-BARREL-BC-WEST

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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 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.86	7.48 ng	391153	Phenanthrene-d10	11.36	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
5	1H-Cyclopropa[1]phenanthrene, 1a, ...	192	C15H12	000949-41-7	94



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080819\
Data File : BF116096.D
Acq On : 9 Aug 2019 4:17
Operator : HP/JU
Sample : K4192-02 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
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ClientSampleId :
TRIPLE-BARREL-BC-WEST

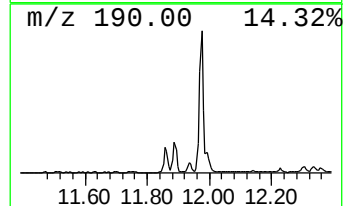
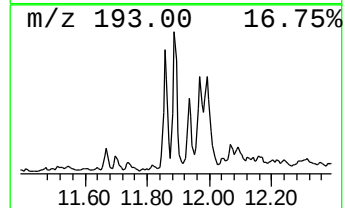
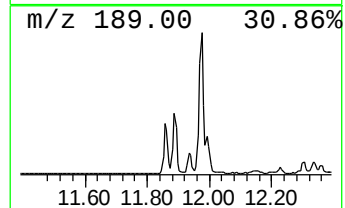
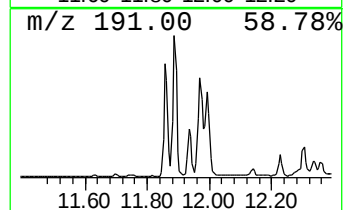
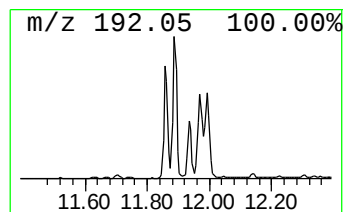
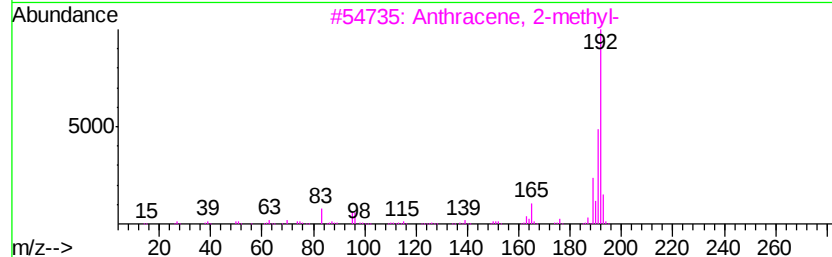
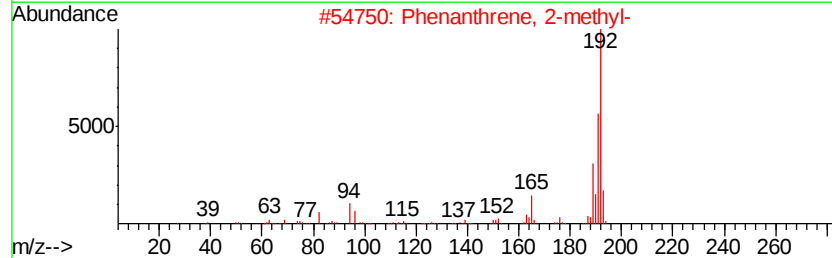
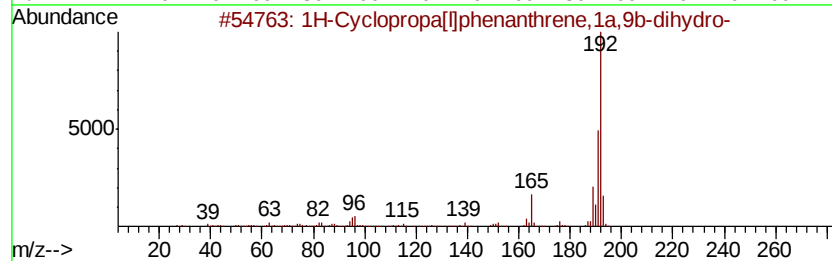
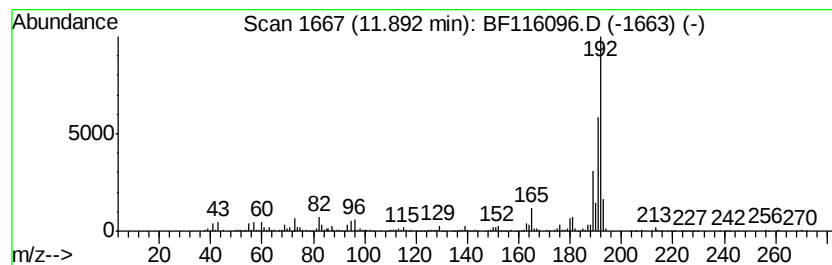
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 1H-Cyclopropa[l]phenanthren... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	13.82 ng	722739	Phenanthrene-d10	11.36

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1H-Cyclopropa[l]phenanthrene, 1a, ...	192	C15H12	000949-41-7	97
2		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
3		Anthracene, 2-methyl-	192	C15H12	000613-12-7	97
4		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
5		Anthracene, 9-methyl-	192	C15H12	000779-02-2	94



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080819\
Data File : BF116096.D
Acq On : 9 Aug 2019 4:17
Operator : HP/JU
Sample : K4192-02 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

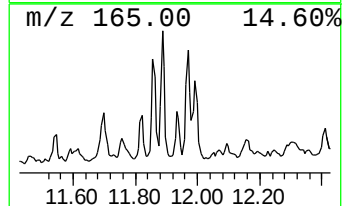
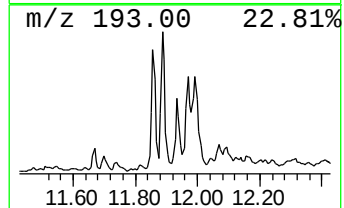
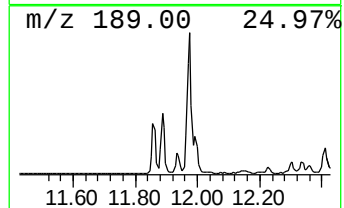
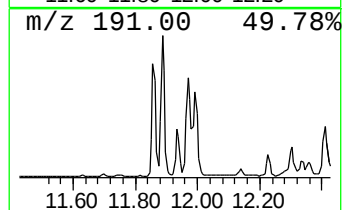
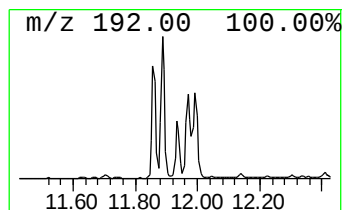
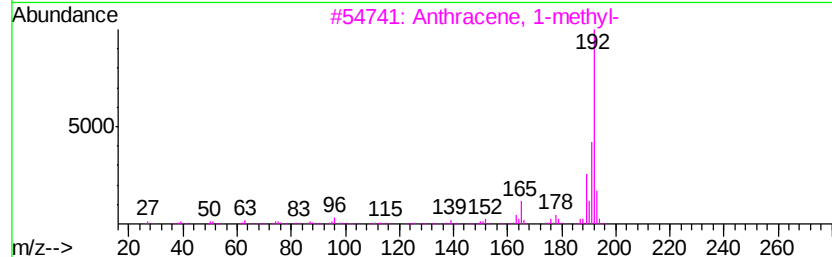
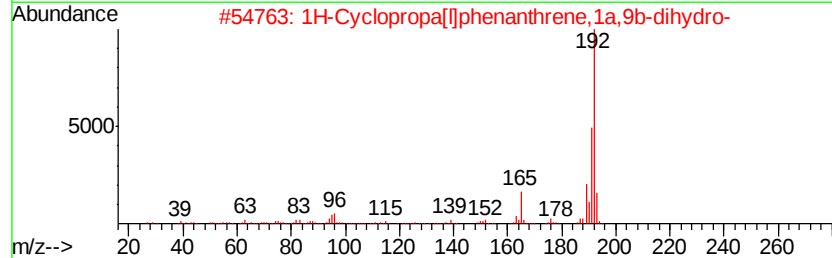
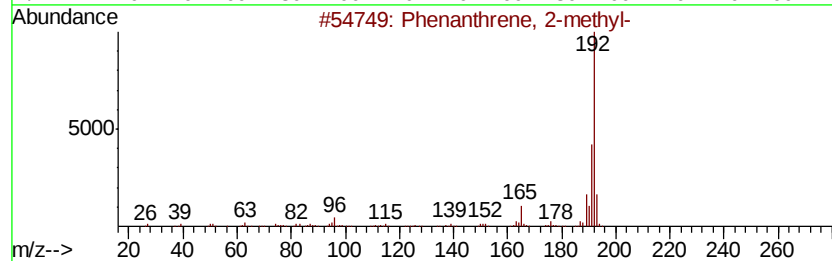
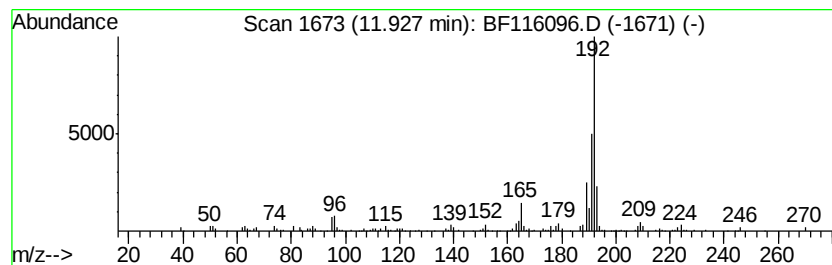
Instrument :
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ClientSampleId :
TRIPLE-BARREL-BC-WEST

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 7 Anthracene, 1-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.93	3.88 ng	202902	Phenanthrene-d10	11.36	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	96
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	94



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080819\
Data File : BF116096.D
Acq On : 9 Aug 2019 4:17
Operator : HP/JU
Sample : K4192-02 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TRIPLE-BARREL-BC-WEST

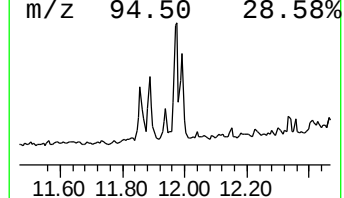
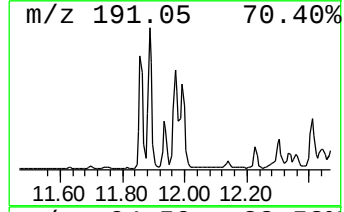
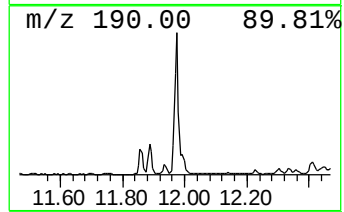
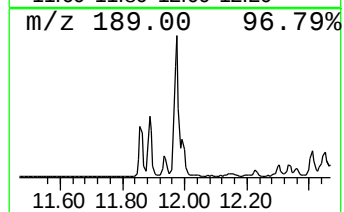
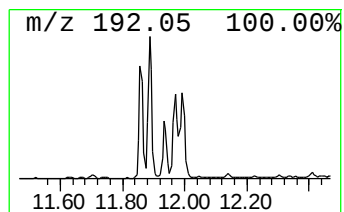
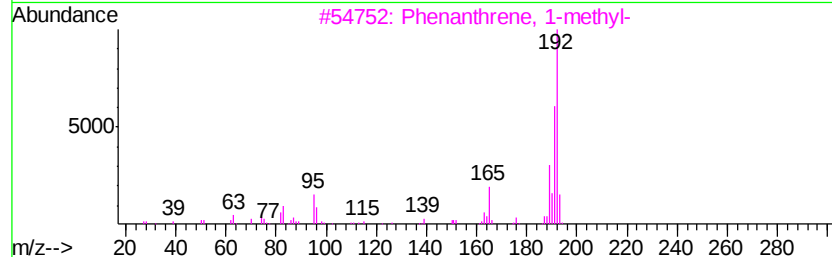
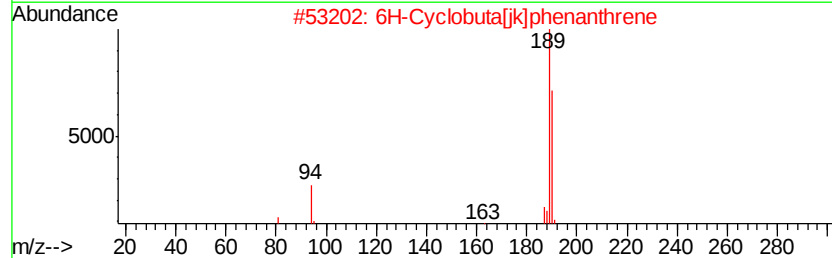
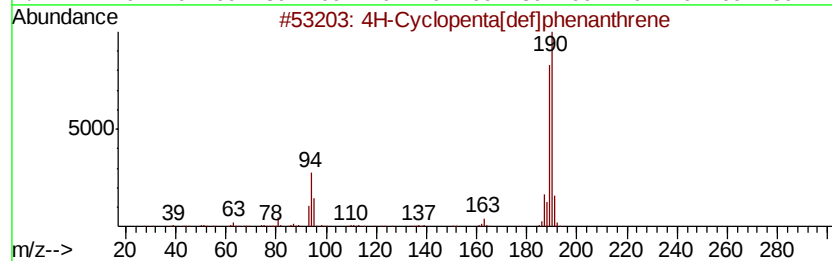
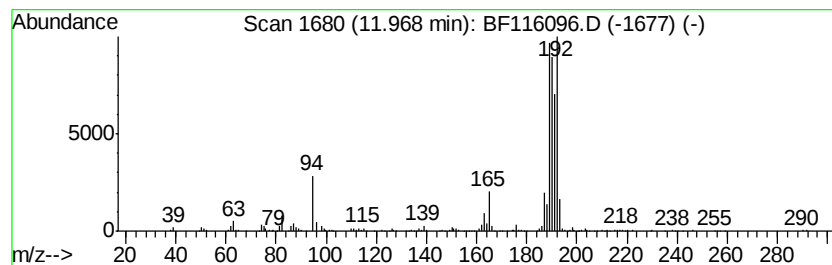
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	13.15 ng	687570	Phenanthrene-d10	11.36

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	53
2		6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
3		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	46
4		5H-Dibenzof[a,d]cycloheptene	192	C15H12	000256-81-5	46
5		1a,9b-Dihydro-1H-cyclopropa[a]an...	192	C15H12	006109-24-6	46



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080819\
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Sample : K4192-02 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

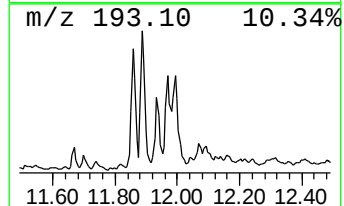
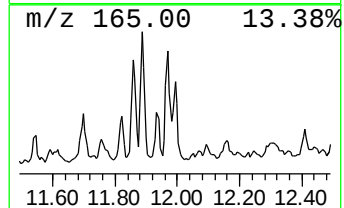
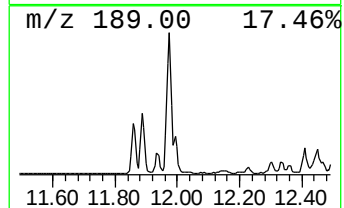
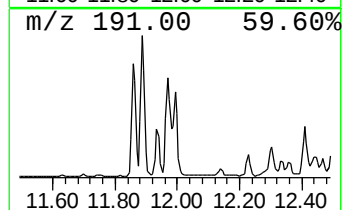
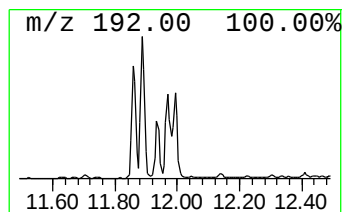
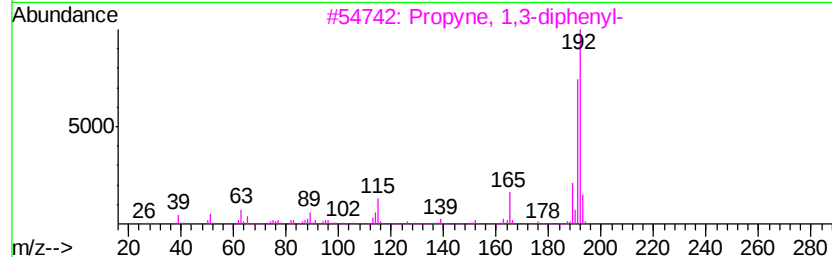
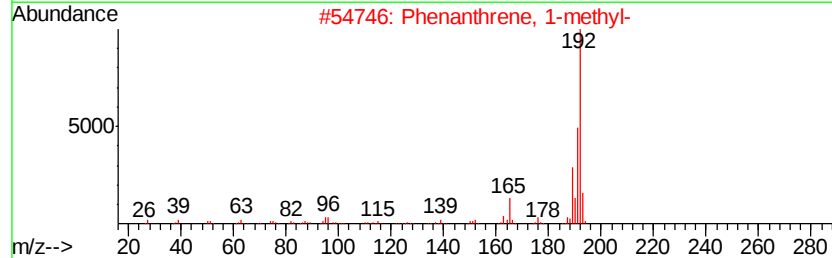
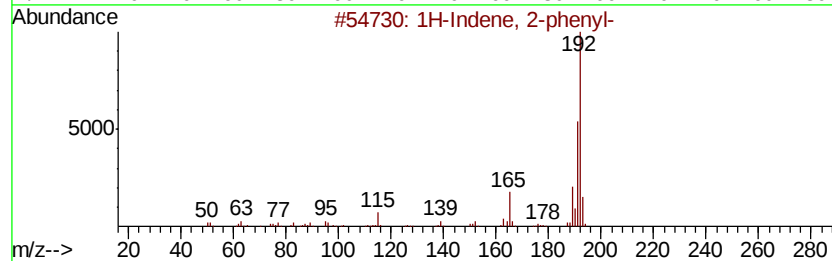
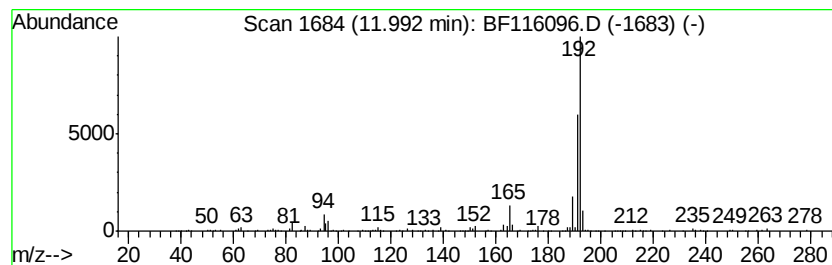
Instrument :
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ClientSampleId :
TRIPLE-BARREL-BC-WEST

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 9 1H-Indene, 2-phenyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD		R.T.
11.99	4.44 ng	232147	Phenanthrene-d10		11.36
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	86
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	81
3	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	74
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	74
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	74



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080819\
Data File : BF116096.D
Acq On : 9 Aug 2019 4:17
Operator : HP/JU
Sample : K4192-02 2X
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Instrument :
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ClientSampleId :
TRIPLE-BARREL-BC-WEST

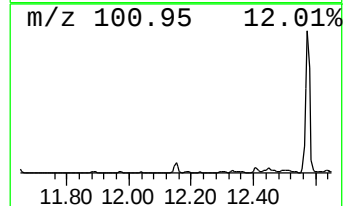
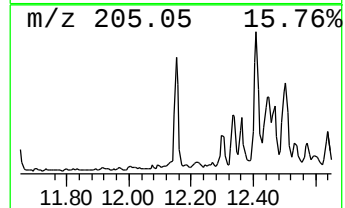
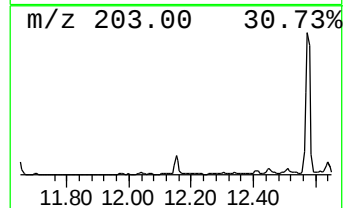
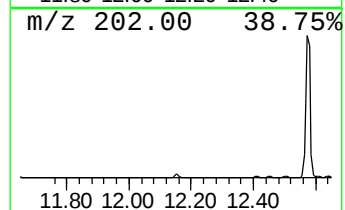
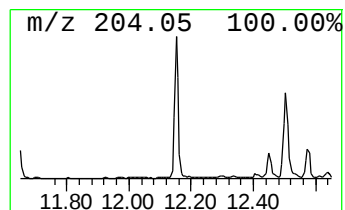
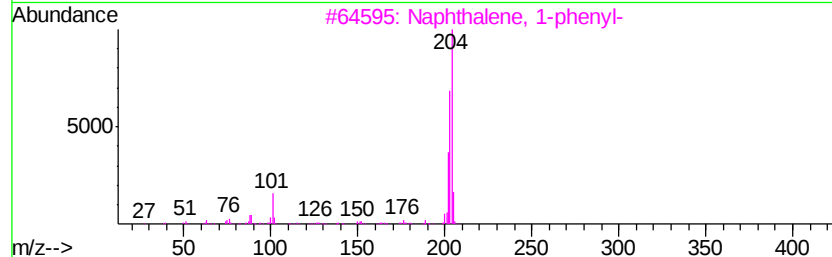
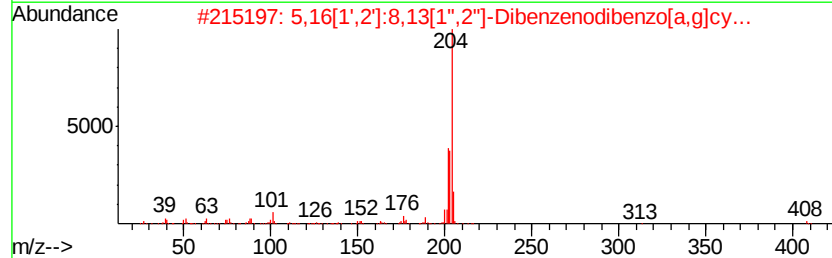
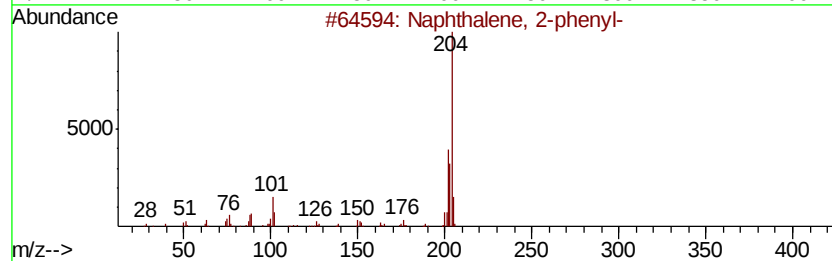
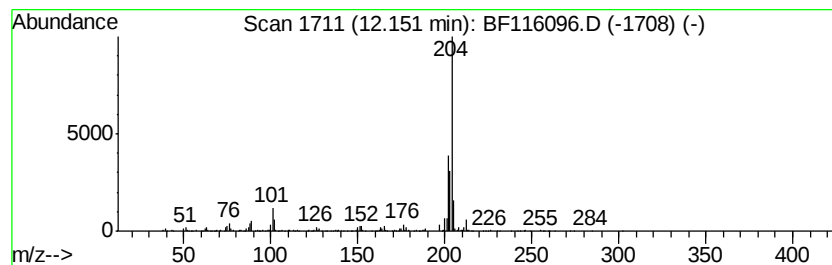
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.15	5.14 ng	268955	Phenanthrene-d10	11.36

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	95
2		5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	90
3		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	78
4		Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	58
5		Benzene, 1,1'-(1-buten-3-yne-1,4...	204	C16H12	013141-45-2	55



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080819\
Data File : BF116096.D
Acq On : 9 Aug 2019 4:17
Operator : HP/JU
Sample : K4192-02 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
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ClientSampleId :
TRIPLE-BARREL-BC-WEST

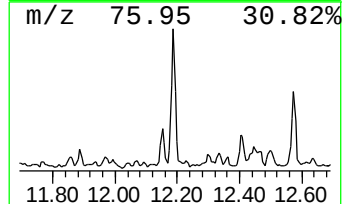
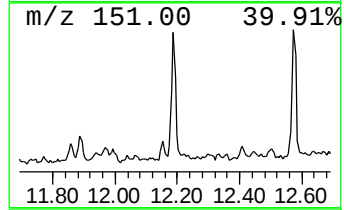
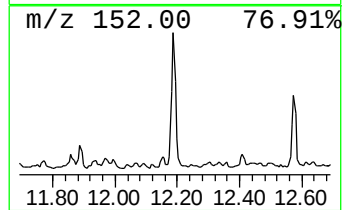
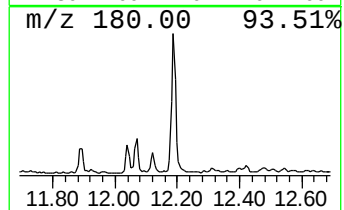
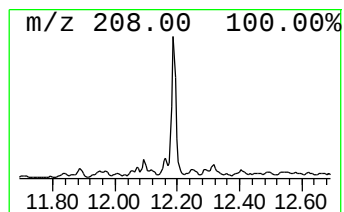
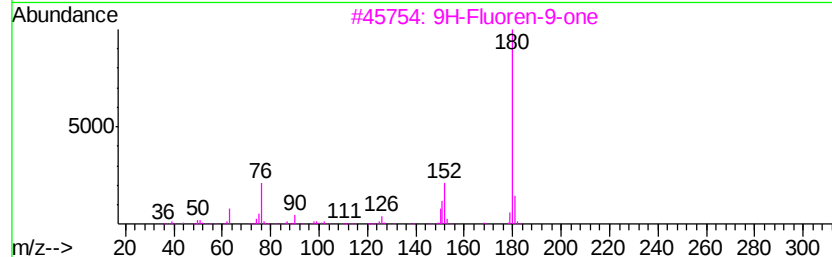
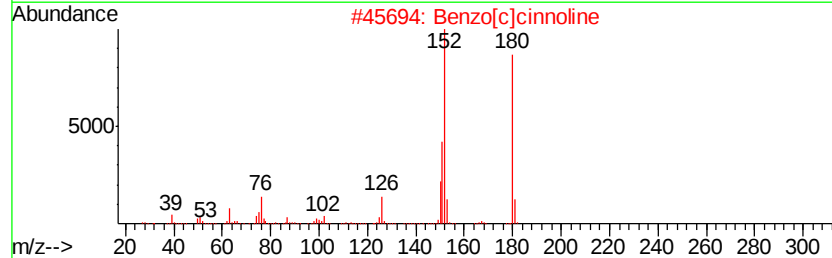
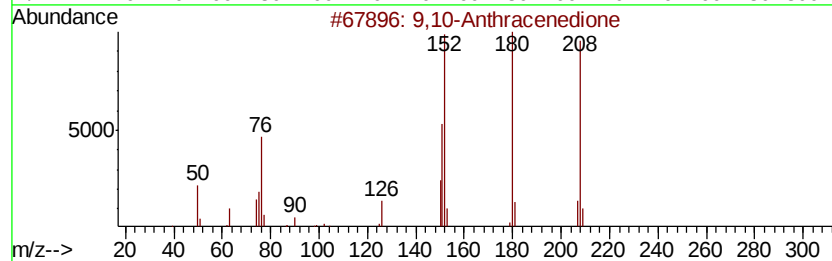
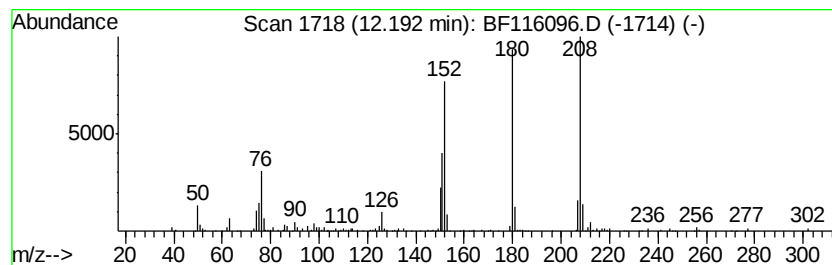
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 9,10-Anthracenedione Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.19	4.38 ng	228916	Phenanthrene-d10	11.36

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2			Benzo[c]cinnoline	180	C12H8N2	000230-17-1	95
3			9H-Fluoren-9-one	180	C13H8O	000486-25-9	70
4			1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
5			Benzo[h]cinnoline	180	C12H8N2	000230-31-9	55



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080819\
Data File : BF116096.D
Acq On : 9 Aug 2019 4:17
Operator : HP/JU
Sample : K4192-02 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
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ClientSampleId :
TRIPLE-BARREL-BC-WEST

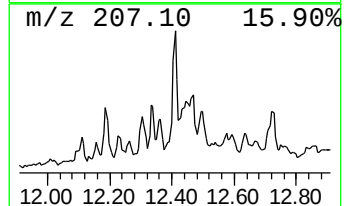
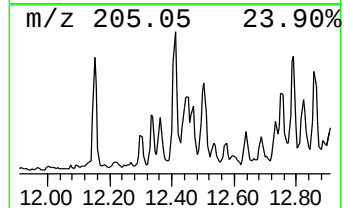
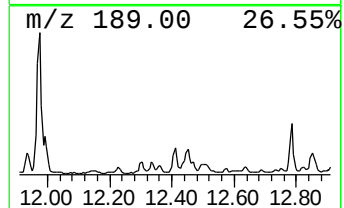
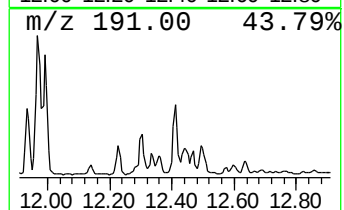
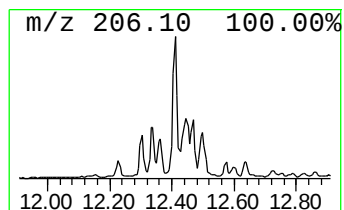
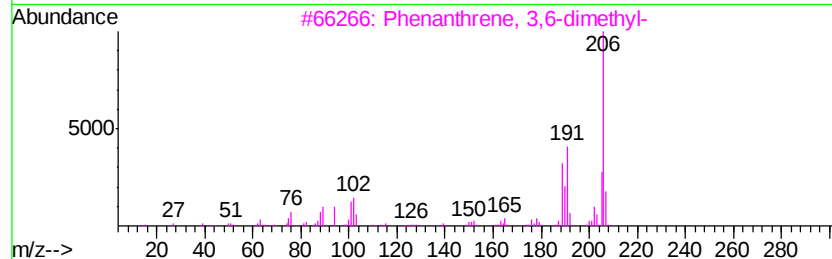
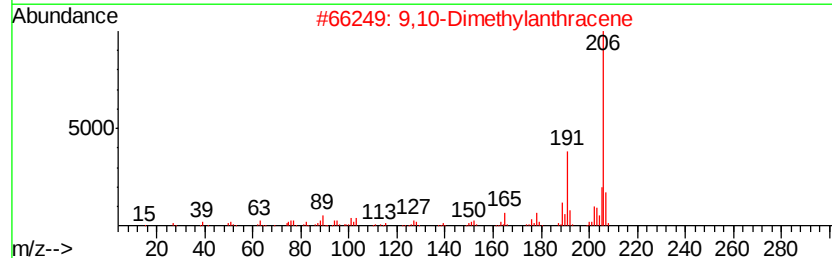
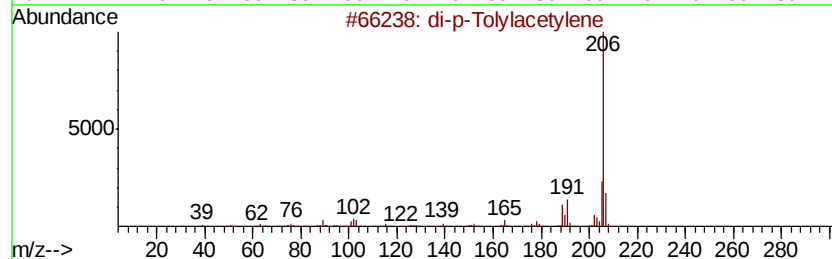
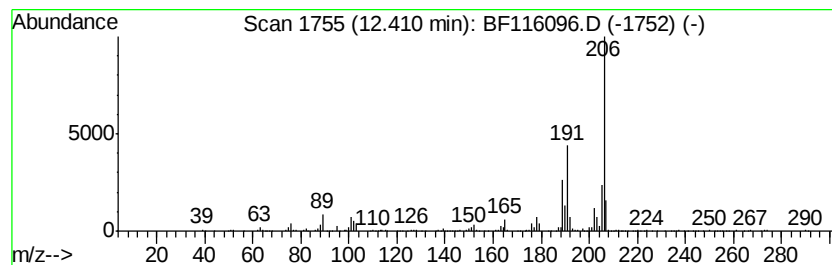
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 di-p-Tolylacetylene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.41	5.54 ng	289877	Phenanthrene-d10	11.36

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			di-p-Tolylacetylene	206	C16H14	002789-88-0	93
2			9,10-Dimethylantracene	206	C16H14	000781-43-1	91
3			Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
4			Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
5			Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080819\
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Sample : K4192-02 2X
Misc :
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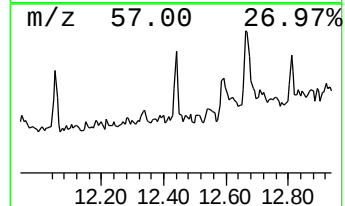
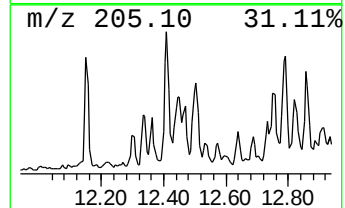
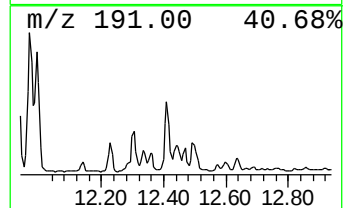
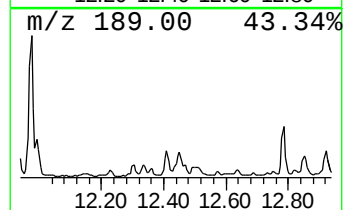
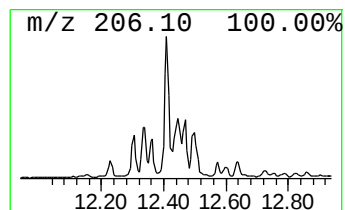
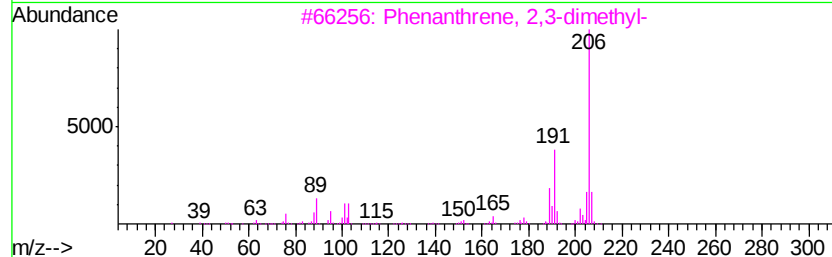
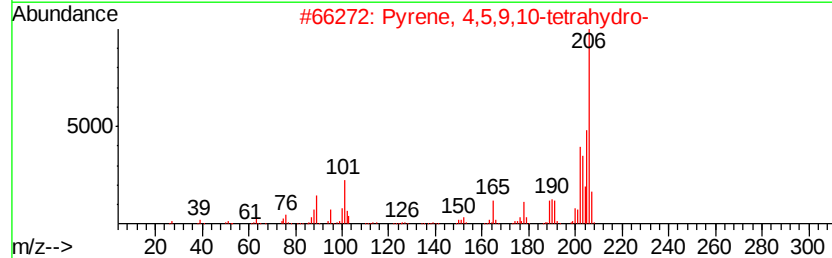
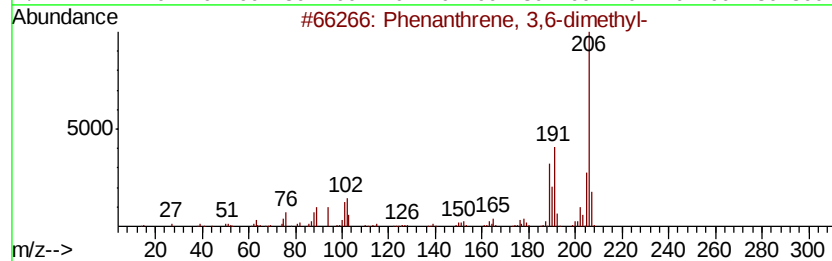
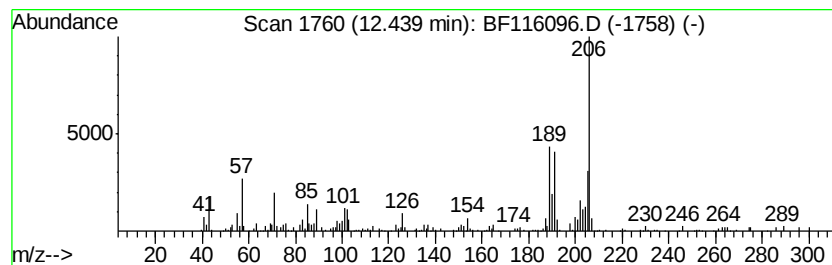
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 unknown12.44 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.44	4.20 ng	219504	Phenanthrene-d10	11.36	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	46
2	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	41
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	35
4	4-(Trifluoromethoxy)benzoic acid	206	C8H5F3O3	000330-12-1	30
5	4H-Thiazolo[5,4-b]indole, 7-fluo...	206	C10H7FN2S	1000337-12-3	22



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080819\
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Misc :
ALS Vial : 23 Sample Multiplier: 1

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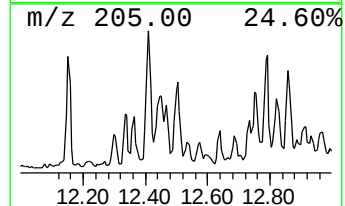
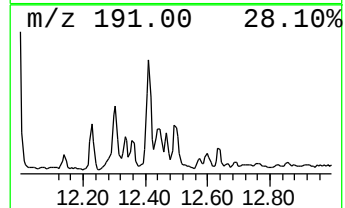
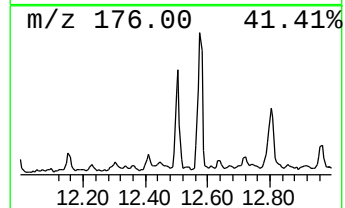
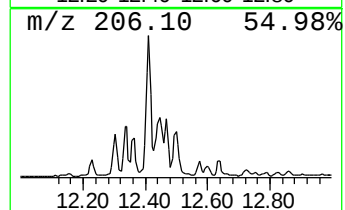
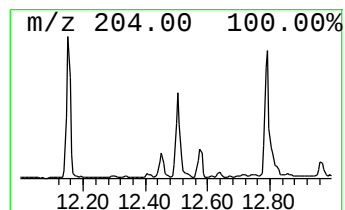
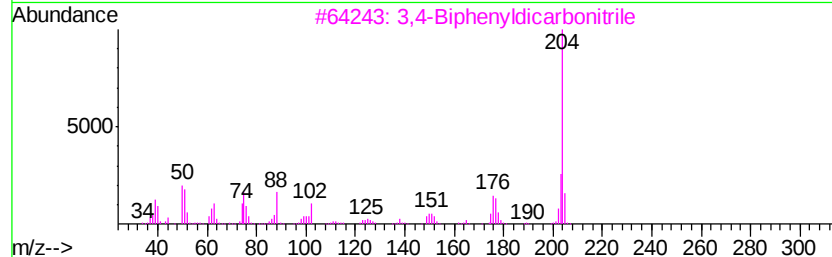
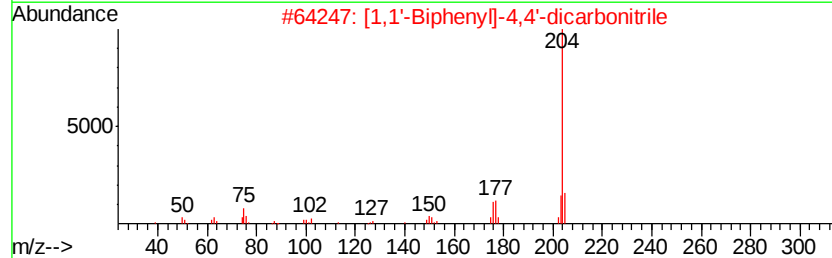
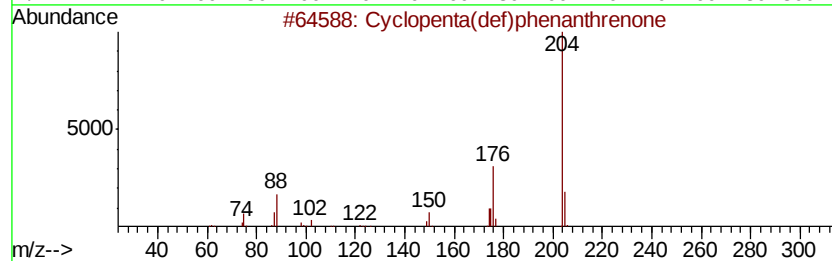
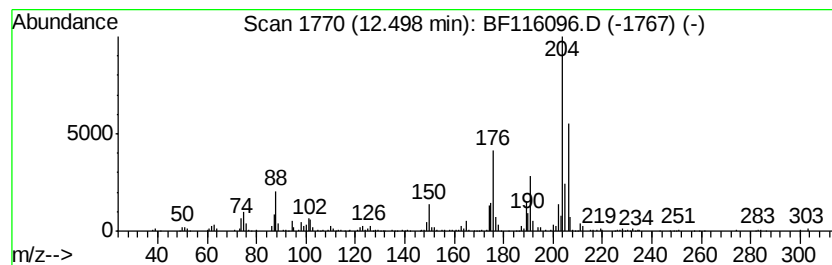
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Cyclopenta(def)phenanthrenone Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.50	4.66 ng	243576	Phenanthrene-d10	11.36

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2		[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	50
3		3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	47
4		Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	47
5		6-Cyanophenanthridine	204	C14H8N2	002176-28-5	47



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080819\
Data File : BF116096.D
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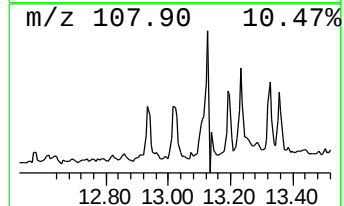
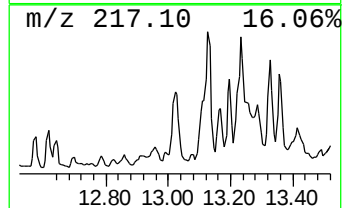
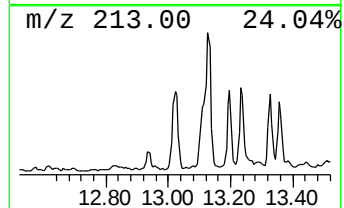
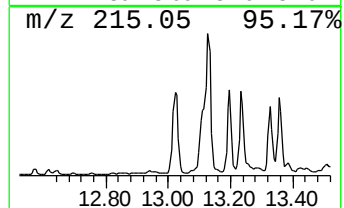
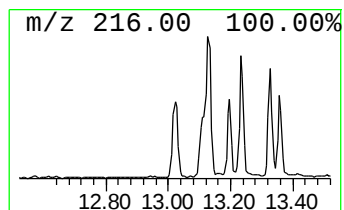
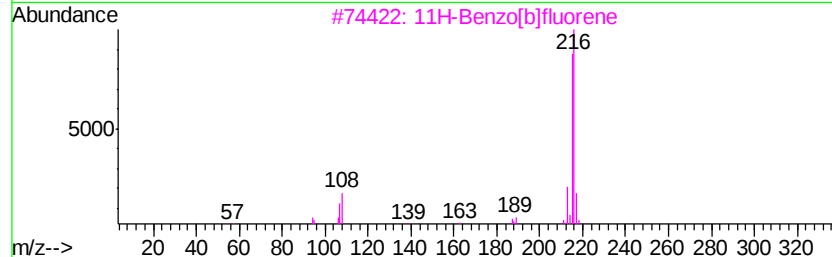
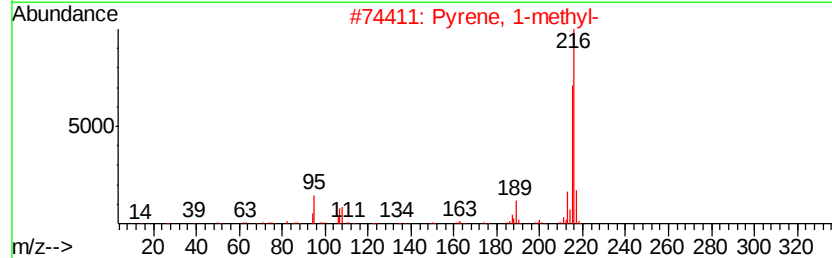
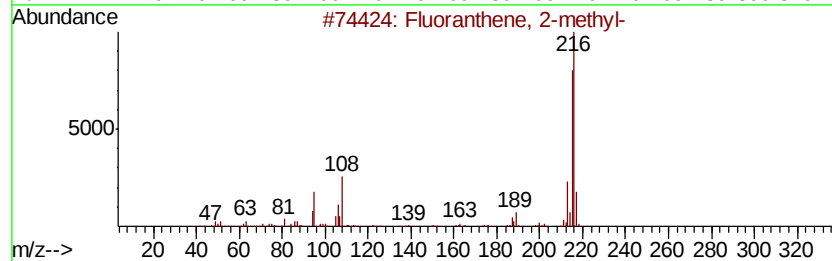
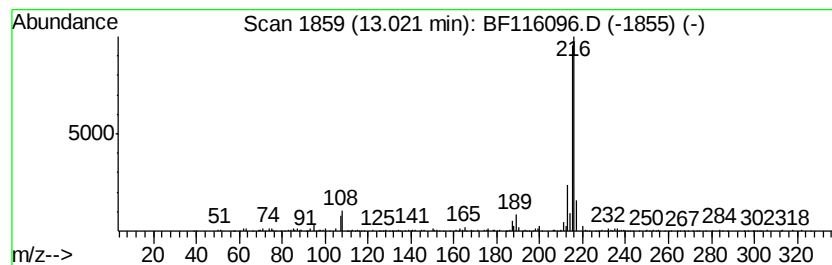
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Fluoranthene, 2-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.02	2.98 ng	336199	Chrysene-d12	14.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
2		Pyrene, 1-methyl-	216	C17H12	002381-21-7	86
3		11H-Benzo[b]fluorene	216	C17H12	000243-17-4	83
4		11H-Benzo[a]fluorene	216	C17H12	000238-84-6	80
5		6H-Thiazolo[5,4-e]indole, 2,7,8-...	216	C12H12N2S	1000338-32-0	64



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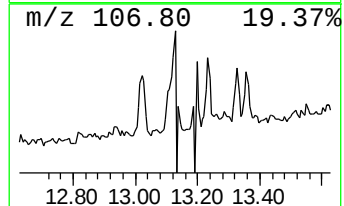
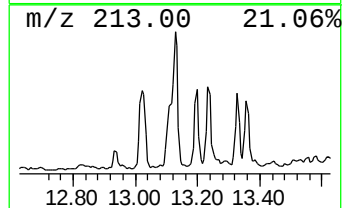
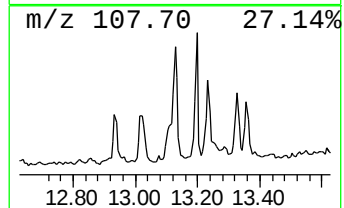
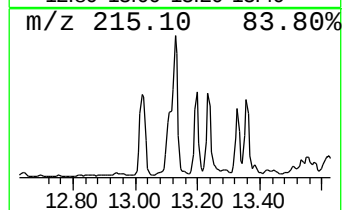
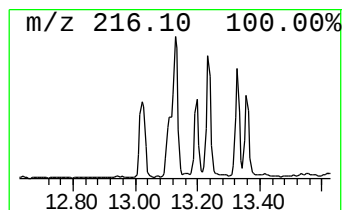
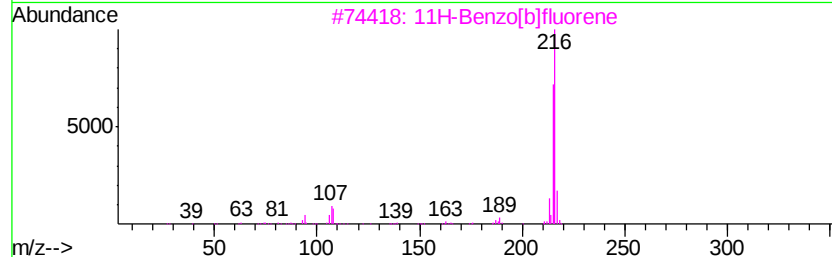
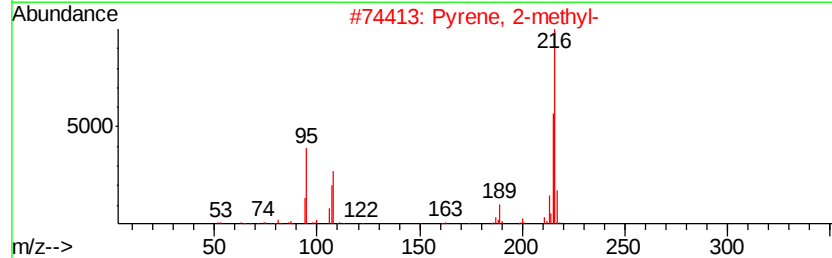
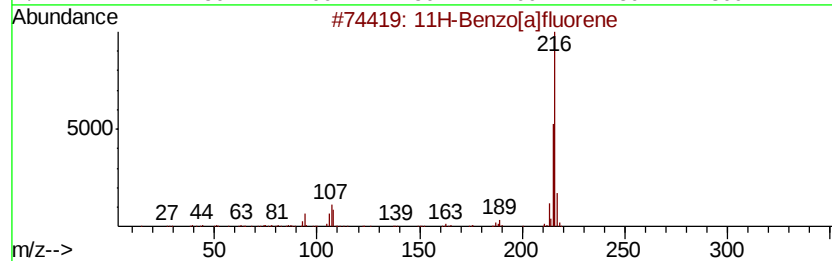
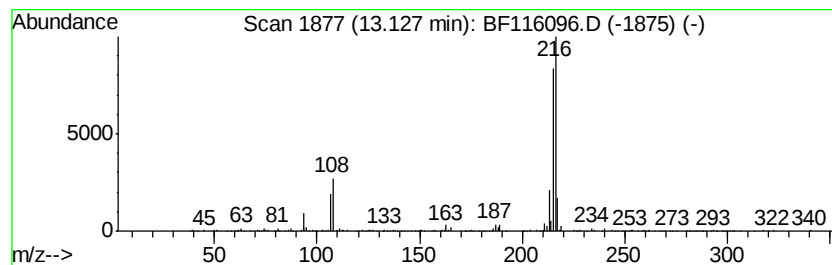
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 11H-Benzo[a]fluorene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.13	3.16 ng	356307	Chrysene-d12	14.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
2		Pyrene, 2-methyl-	216	C17H12	003442-78-2	89
3		11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
4		7H-Benzo[c]fluorene	216	C17H12	000205-12-9	83
5		Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	74



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080819\
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ClientSampleId :
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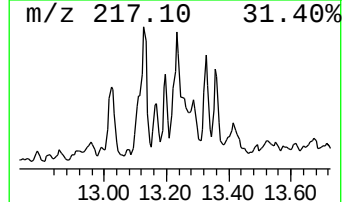
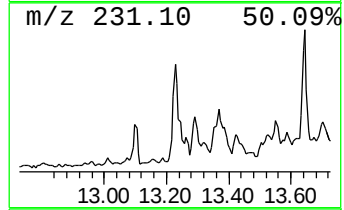
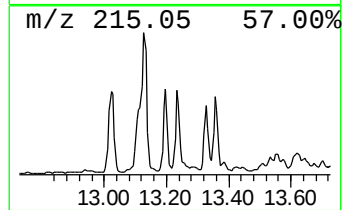
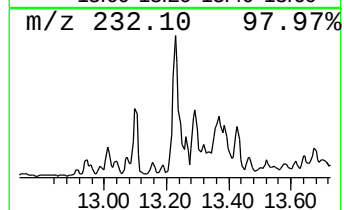
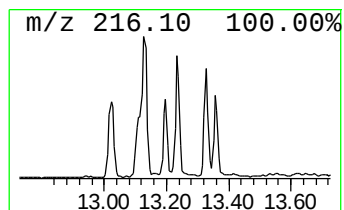
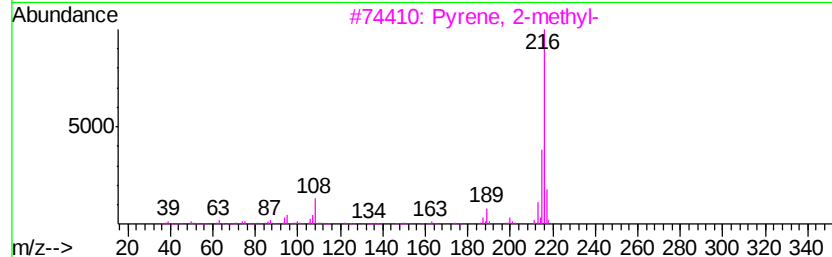
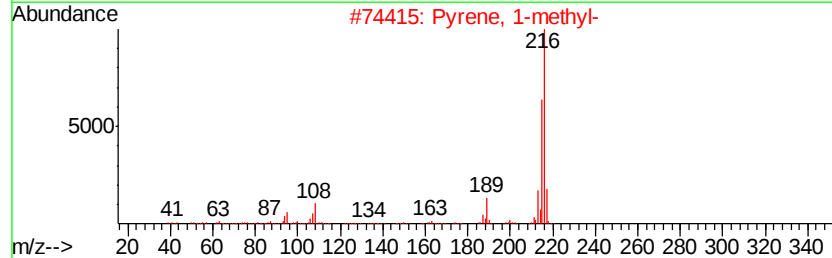
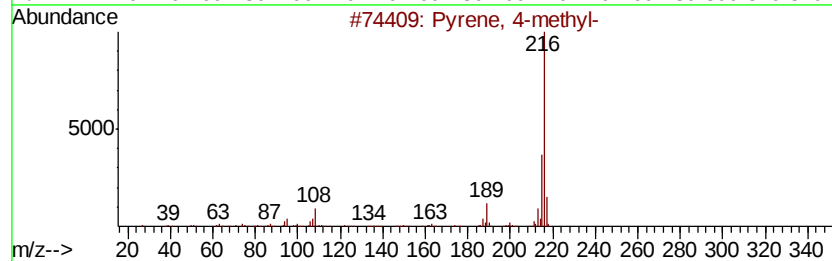
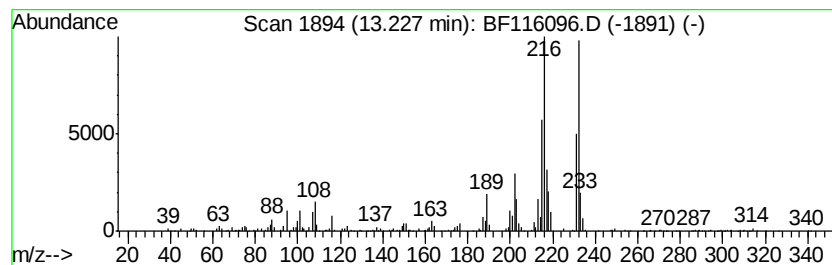
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 Pyrene, 4-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.23	3.91 ng	440848	Chrysene-d12	14.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Pyrene, 4-methyl-	216	C17H12	003353-12-6	95
2		Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
3		Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
4		Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	89
5		11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080819\
Data File : BF116096.D
Acq On : 9 Aug 2019 4:17
Operator : HP/JU
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ALS Vial : 23 Sample Multiplier: 1

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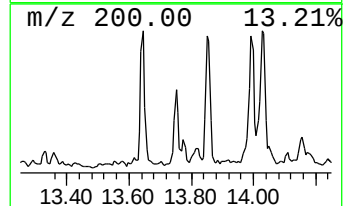
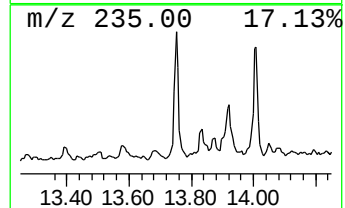
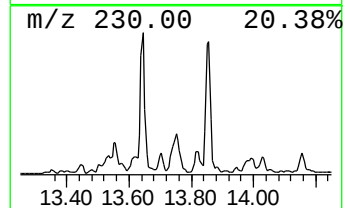
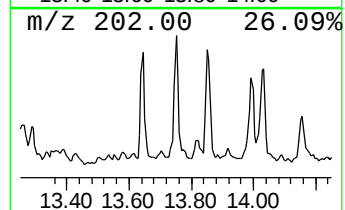
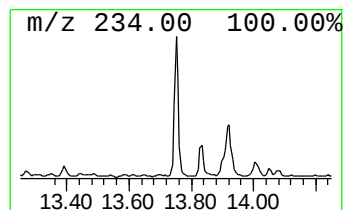
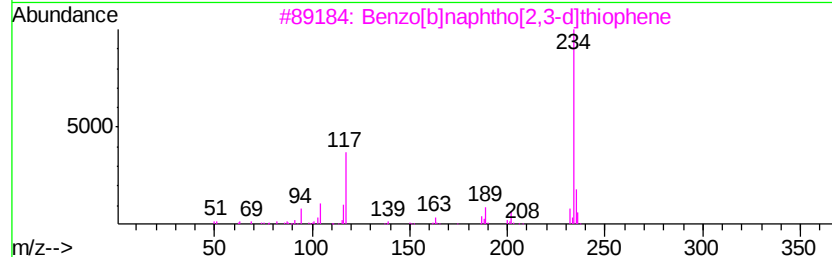
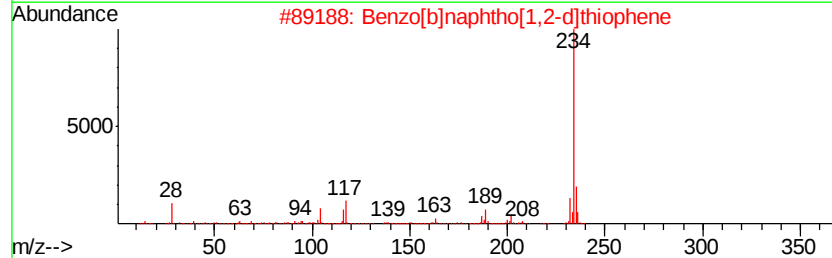
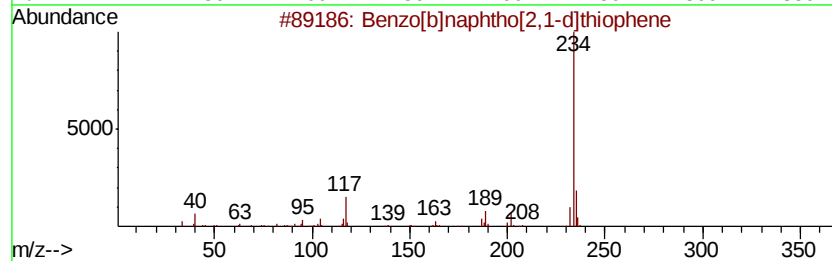
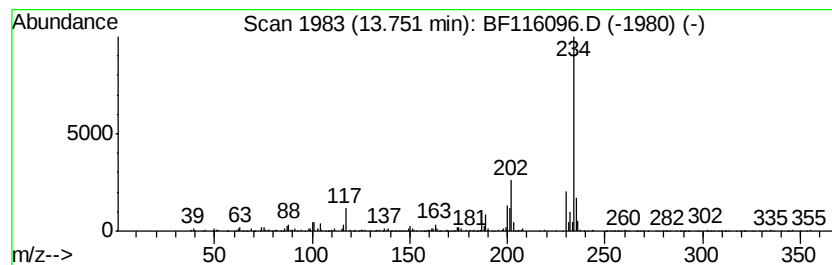
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.75	2.63 ng	297294	Chrysene-d12	14.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	78
2		Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	64
3		Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	58
4		Quinoxalino[2,3-b]quinoxaline, 5...	234	C14H10N4	000531-46-4	47
5		2-Amino-6-t-butyl-3-cyano-4,5,6,...	234	C13H18N2S	042159-76-2	46



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080819\
Data File : BF116096.D
Acq On : 9 Aug 2019 4:17
Operator : HP/JU
Sample : K4192-02 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

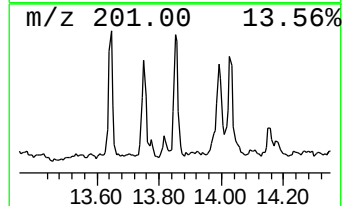
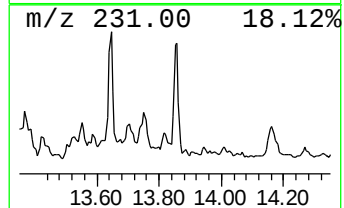
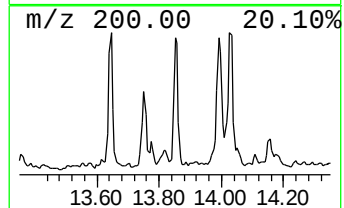
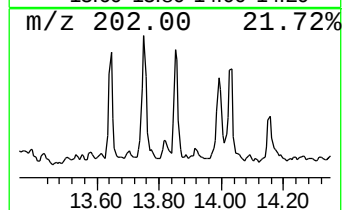
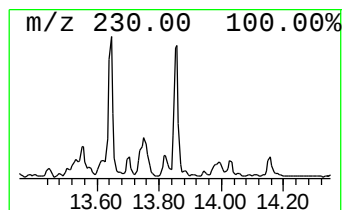
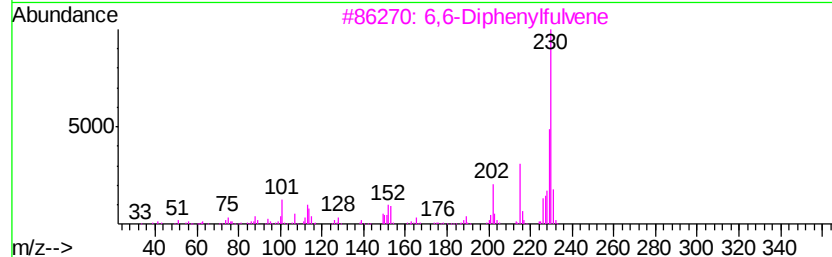
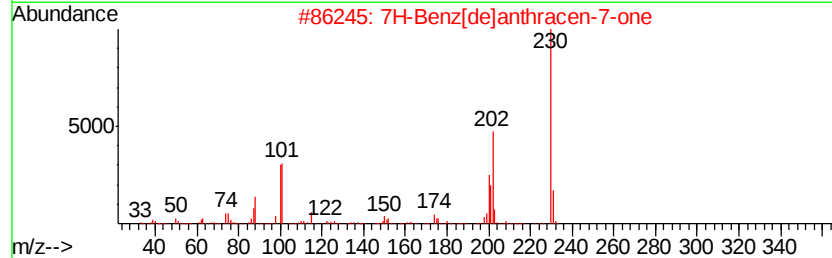
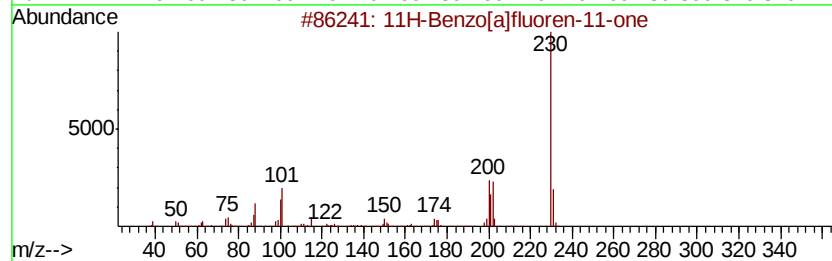
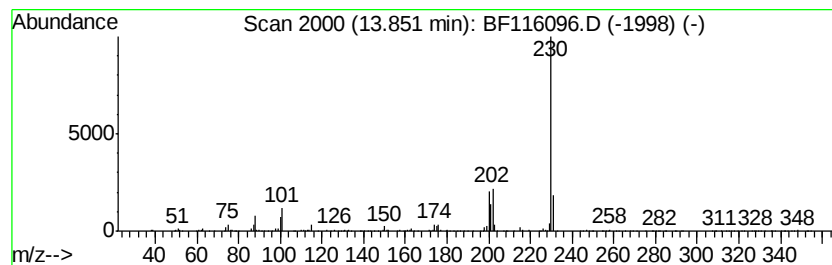
Instrument :
BNA_F
ClientSampleId :
TRIPLE-BARREL-BC-WEST

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 19 11H-Benzo[a]fluoren-11-one Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.		
13.85	3.07 ng	346079	Chrysene-d12	14.00		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		11H-Benzo[alfluoren-11-one	230	C17H10O	000479-79-8	94
2		7H-Benz[delanthracen-7-one	230	C17H10O	000082-05-3	90
3		6,6-Diphenylfulvene	230	C18H14	002175-90-8	59
4		4-Isothiazolecarbonitrile, 3,5-b...	230	C8H10N2S3	024135-13-5	53
5		5,6-Dihydrochrysene	230	C18H14	002091-92-1	50



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080819\
Data File : BF116096.D
Acq On : 9 Aug 2019 4:17
Operator : HP/JU
Sample : K4192-02 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

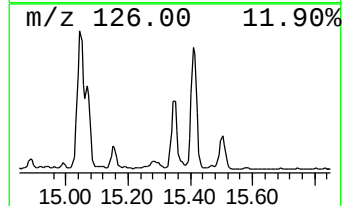
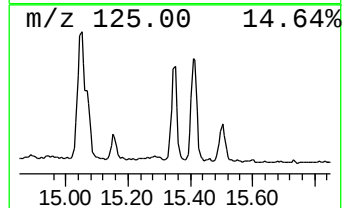
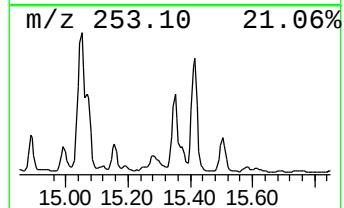
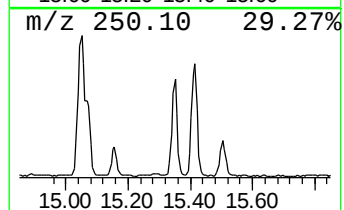
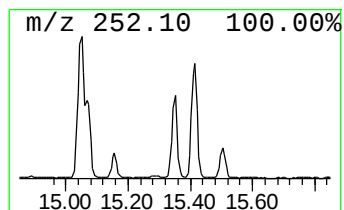
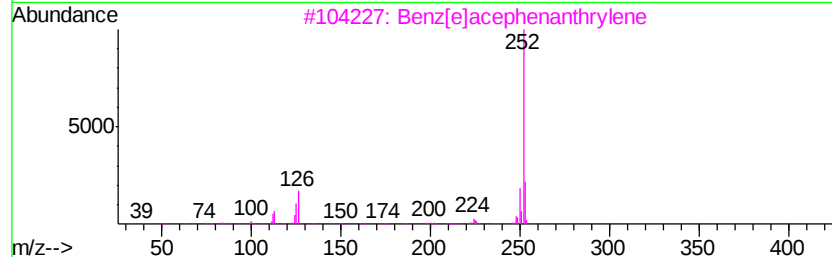
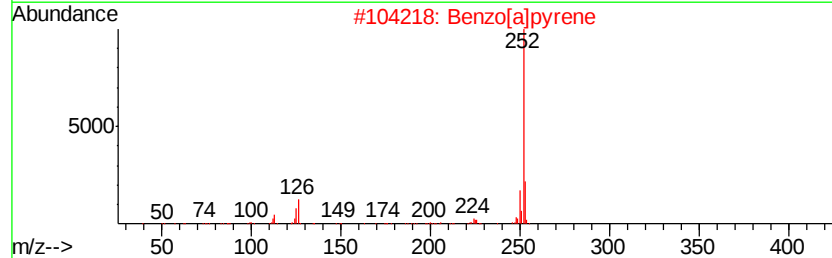
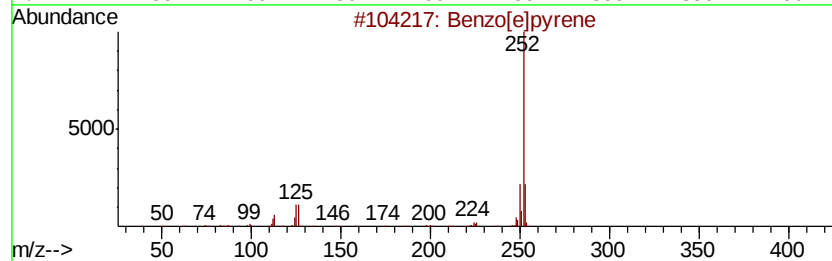
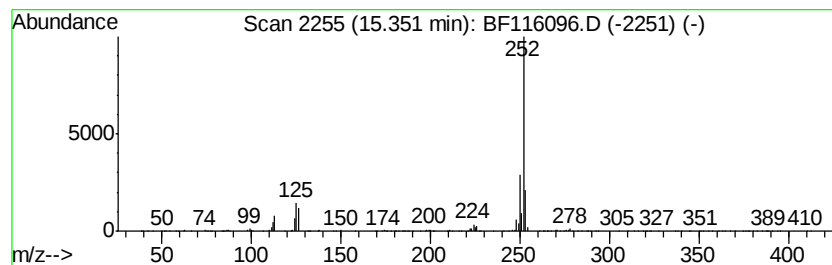
Instrument :
BNA_F
ClientSampleId :
TRIPLE-BARREL-BC-WEST

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 Benzo[e]pyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.	
15.35	26.19 ng	795416	Perylene-d12	15.47	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[a]pyrene	252	C20H12	000050-32-8	95
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Perylene	252	C20H12	000198-55-0	89
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	89



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF080819\
 Data File : BF116096.D
 Acq On : 9 Aug 2019 4:17
 Operator : HP/JU
 Sample : K4192-02 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TRIPLE-BARREL-BC-WEST

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
unknown6.62	6.62	19.5	ng	805441	1	6.84	827692	20.0
unknown11.21	11.21	2.5	ng	131649	4	11.36	1045820	20.0
Naphtho[2,1-b]thi...	11.26	3.4	ng	175391	4	11.36	1045820	20.0
Phenanthrene, 2-m...	11.86	7.5	ng	391153	4	11.36	1045820	20.0
1H-Cyclopropa[l]p...	11.89	13.8	ng	722739	4	11.36	1045820	20.0
Anthracene, 1-met...	11.93	3.9	ng	202902	4	11.36	1045820	20.0
4H-Cyclopenta[def...	11.97	13.2	ng	687570	4	11.36	1045820	20.0
1H-Indene, 2-phenyl-	11.99	4.4	ng	232147	4	11.36	1045820	20.0
Naphthalene, 2-ph...	12.15	5.1	ng	268955	4	11.36	1045820	20.0
9,10-Anthracenedione	12.19	4.4	ng	228916	4	11.36	1045820	20.0
di-p-Tolylacetylene	12.41	5.5	ng	289877	4	11.36	1045820	20.0
unknown12.44	12.44	4.2	ng	219504	4	11.36	1045820	20.0
Cyclopenta(def)ph...	12.50	4.7	ng	243576	4	11.36	1045820	20.0
Fluoranthene, 2-m...	13.02	3.0	ng	336199	5	14.00	2257540	20.0
11H-Benzo[a]fluorene	13.13	3.2	ng	356307	5	14.00	2257540	20.0
Pyrene, 4-methyl-	13.23	3.9	ng	440848	5	14.00	2257540	20.0
Benzo[b]naphtho[2...	13.75	2.6	ng	297294	5	14.00	2257540	20.0
11H-Benzo[a]fluor...	13.85	3.1	ng	346079	5	14.00	2257540	20.0
Benzo[e]pyrene	15.35	26.2	ng	795416	6	15.47	607376	20.0