LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120644.D
Acq On : 18 Jun 2020 16:14
Operator : JU/CG
Sample : L3046-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ISS-C-C

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 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-BF061020.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	5.410	560	565	568	rBV	2518472	2314223	58.07%	3.978%
2	6.434	734	739	742	rBV	2340197	2243949	56.31%	3.858%
3	6.798	798	801	805	rBV	879614	673069	16.89%	1.157%
4	6.957	824	828	831	rBV	2357494	1951163	48.96%	3.354%
5	7.363	892	897	900	rBV	1667868	1487164	37.32%	2.557%
6	8.081	1015	1019	1021	rBV	1188435	928011	23.29%	1.595%
7	8.098	1021	1022	1027	rVB	128252	96235	2.41%	0.165%
8	8.892	1153	1157	1160	rVB	77174	64836	1.63%	0.111%
9	9.157	1198	1202	1205	rBV	3361256	2931706	73.57%	5.040%
10	9.492	1255	1259	1261	rBV	79674	73487	1.84%	0.126%
11	9.545	1265	1268	1272	rVB	222839	188396	4.73%	0.324%
12	9.692	1290	1293	1297	rVB	103287	76774	1.93%	0.132%
13	9.833	1310	1317	1320	rBV	1150249	968602	24.31%	1.665%
14	9.863	1320	1322	1326	rVB	379246	294354	7.39%	0.506%
15	10.033	1348	1351	1355	rBV	147396	134069	3.36%	0.230%
16	10.374	1406	1409	1414	rBV	262331	255102	6.40%	0.439%
17	10.533	1434	1436	1441	rVB	73095	71875	1.80%	0.124%
18	10.621	1447	1451	1454	rBV	2219615	1925691	48.32%	3.311%
19	10.745	1467	1472	1475	rBV4	84820	102967	2.58%	0.177%
20	10.910	1497	1500	1501	rBV	74393	64640	1.62%	0.111%
21	10.927	1501	1503	1505	rVV2	81306	71347	1.79%	0.123%
22	10.951	1505	1507	1510	rVB2	74123	65066	1.63%	0.112%
23	11.121	1533	1536	1540	rVB	190892	161097	4.04%	0.277%
24	11.180	1540	1546	1549	rBV6	85908	148435	3.72%	0.255%
25	11.210	1549	1551	1554	rVB	173337	143708	3.61%	0.247%
26	11.316	1566	1569	1571	rBV	1079407	1037839	26.04%	1.784%
27	11.345	1571	1574	1577	rVV	3423332	2939851	73.77%	5.054%
28	11.392	1577	1582	1585	rVB	997229	813113	20.40%	1.398%
29	11.427	1585	1588	1591	rBV2	57976	62091	1.56%	0.107%
30	11.545	1602	1608	1611	rBV2	240839	261985	6.57%	0.450%
31	11.610	1616	1619	1622	rBV	180642	149535	3.75%	0.257%
32	11.645	1622	1625	1629	rBV2	112778	105100	2.64%	0.181%
33	11.774	1644	1647	1649	rBV	65471	64719	1.62%	0.111%
34	11.816	1650	1654	1657	rVV	614473	581493	14.59%	1.000%

LSC Area Percent Report

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Operator : JU/CG
Sample : L3046-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ISS-C-C

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 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-BF061020.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.845	1657	1659	1662	rVV	859529	694688	17.43%	1.194%
36	11.892	1662	1667	1670	rVV2	285710	283423	7.11%	0.487%
37	11.927	1670	1673	1676	rVV	795916	937520	23.53%	1.612%
38	11.951	1676	1677	1681	rVB	565644	359396	9.02%	0.618%
39	12.021	1686	1689	1692	rVV3	84457	98677	2.48%	0.170%
40	12.116	1701	1705	1707	rVV	498123	481791	12.09%	0.828%
41	12.139	1707	1709	1713	rVV	323246	274930	6.90%	0.473%
42	12.186	1715	1717	1722	rVB	85057	67230	1.69%	0.116%
43	12.263	1728	1730	1733	rVV2	176759	149570	3.75%	0.257%
44	12.292	1733	1735	1737	rVV	129672	108047	2.71%	0.186%
45	12.316	1737	1739	1742	rVB	125672	102256	2.57%	0.176%
46	12.368	1744	1748	1751	rVV	346838	383972	9.64%	0.660%
47	12.404	1751	1754	1756	rVV2	212497	253041	6.35%	0.435%
48	12.421	1756	1757	1760	rVV	105689	86796	2.18%	0.149%
49	12.451	1760	1762	1767	rVV	297340	331109	8.31%	0.569%
50	12.533	1771	1776	1779	rVV	3733445	3301960	82.86%	5.677%
51	12.574	1781	1783	1784	rVV	82372	68504	1.72%	0.118%
52	12.592	1784	1786	1789	rVV3	108779	111502	2.80%	0.192%
53	12.663	1793	1798	1799	rBV3	97657	130522	3.28%	0.224%
54	12.680	1799	1801	1804	rVV	126366	130122	3.27%	0.224%
55	12.763	1809	1815	1818	rVV	3460575	3985120	100.00%	6.851%
56	12.804	1820	1822	1827	rVV2	130572	184527	4.63%	0.317%
57	12.874	1831	1834	1835	rVV2	139846	125729	3.15%	0.216%
58	12.904	1835	1839	1846	rVB	3344659	3328715	83.53%	5.723%
59	12.980	1846	1852	1855	rBV2	279622	447436	11.23%	0.769%
60	13.033	1859	1861	1863	rVV2	65542	69009	1.73%	0.119%
61	13.068	1863	1867	1868	rVV4	253897	347868	8.73%	0.598%
62	13.086	1868	1870	1873	rVB	367360	311208	7.81%	0.535%
63	13.151	1879	1881	1884	rVB	175939	122496	3.07%	0.211%
64	13.192	1884	1888	1890	rBV2	394366	380648	9.55%	0.654%
65	13.215	1890	1892	1895	rVB	76141	74062	1.86%	0.127%
66	13.245	1895	1897	1901	rBV2	57857	63709	1.60%	0.110%
67	13.280	1901	1903	1906	rBV	284409	211116	5.30%	0.363%
68	13.310	1906	1908	1912	rBV	329563	279688	7.02%	0.481%
69	13.533	1944	1946	1949	rVB2	81297	60346	1.51%	0.104%
70	13.592	1953	1956	1961	rVB	327057	335859	8.43%	0.577%
71	13.704	1970	1975	1978	rBV2	253175	409574	10.28%	0.704%

LSC Area Percent Report

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Operator : JU/CG
Sample : L3046-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ISS-C-C

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 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-BF061020.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.733	1978	1980	1982	rVV	377690	306431	7.69%	0.527%
73	13.757	1982	1984	1987	rVV2	276008	278261	6.98%	0.478%
74	13.798	1988	1991	2000	rVB3	484689	765250	19.20%	1.316%
75	13.951	2010	2017	2020	rBV2	1958588	2871862	72.06%	4.937%
76	13.980	2020	2022	2027	rVB	1440723	1461234	36.67%	2.512%
77	14.057	2033	2035	2040	rBV	237053	233427	5.86%	0.401%
78	14.210	2059	2061	2064	rBV3	177472	234394	5.88%	0.403%
79	14.304	2075	2077	2079	rBV	93183	73712	1.85%	0.127%
80	14.339	2081	2083	2086	rVV	321681	283556	7.12%	0.487%
81	14.374	2087	2089	2092	rVB	196382	165370	4.15%	0.284%
82	14.462	2102	2104	2107	rBV	147437	143166	3.59%	0.246%
83	14.521	2111	2114	2115	rBV2	93533	121312	3.04%	0.209%
84	14.580	2121	2124	2128	rBV2	761642	743791	18.66%	1.279%
85	14.986	2188	2193	2196	rBV2	995650	1680534	42.17%	2.889%
86	15.051	2202	2204	2207	rVV	97783	94506	2.37%	0.162%
87	15.086	2207	2210	2213	rVB	242443	245035	6.15%	0.421%
88	15.274	2238	2242	2248	rVB	752601	977256	24.52%	1.680%
89	15.339	2248	2253	2256	rBV	1105243	1292067	32.42%	2.221%
90	15.398	2258	2263	2266	rBV	810379	1011368	25.38%	1.739%
91	15.856	2339	2341	2347	rBV	90436	99919	2.51%	0.172%
92	16.151	2389	2391	2398	rBV7	62891	97525	2.45%	0.168%
93	16.727	2486	2489	2492	rBV4	86503	134867	3.38%	0.232%
94	16.815	2499	2504	2508	rBV2	398153	656384	16.47%	1.128%
95	17.245	2570	2577	2586	rVB	450924	990104	24.85%	1.702%
96	17.468	2610	2615	2620	rBV	125345	282013	7.08%	0.485%
97	17.556	2628	2630	2639	rBV8	63483	140174	3.52%	0.241%
98	18.056	2713	2715	2723	rBV7	56724	100212	2.51%	0.172%
99	18.197	2738	2739	2747	rBV8	52987	74115	1.86%	0.127%
100	18.580	2802	2804	2806	rBV3	65361	66582	1.67%	0.114%

Sum of corrected areas: 58168285

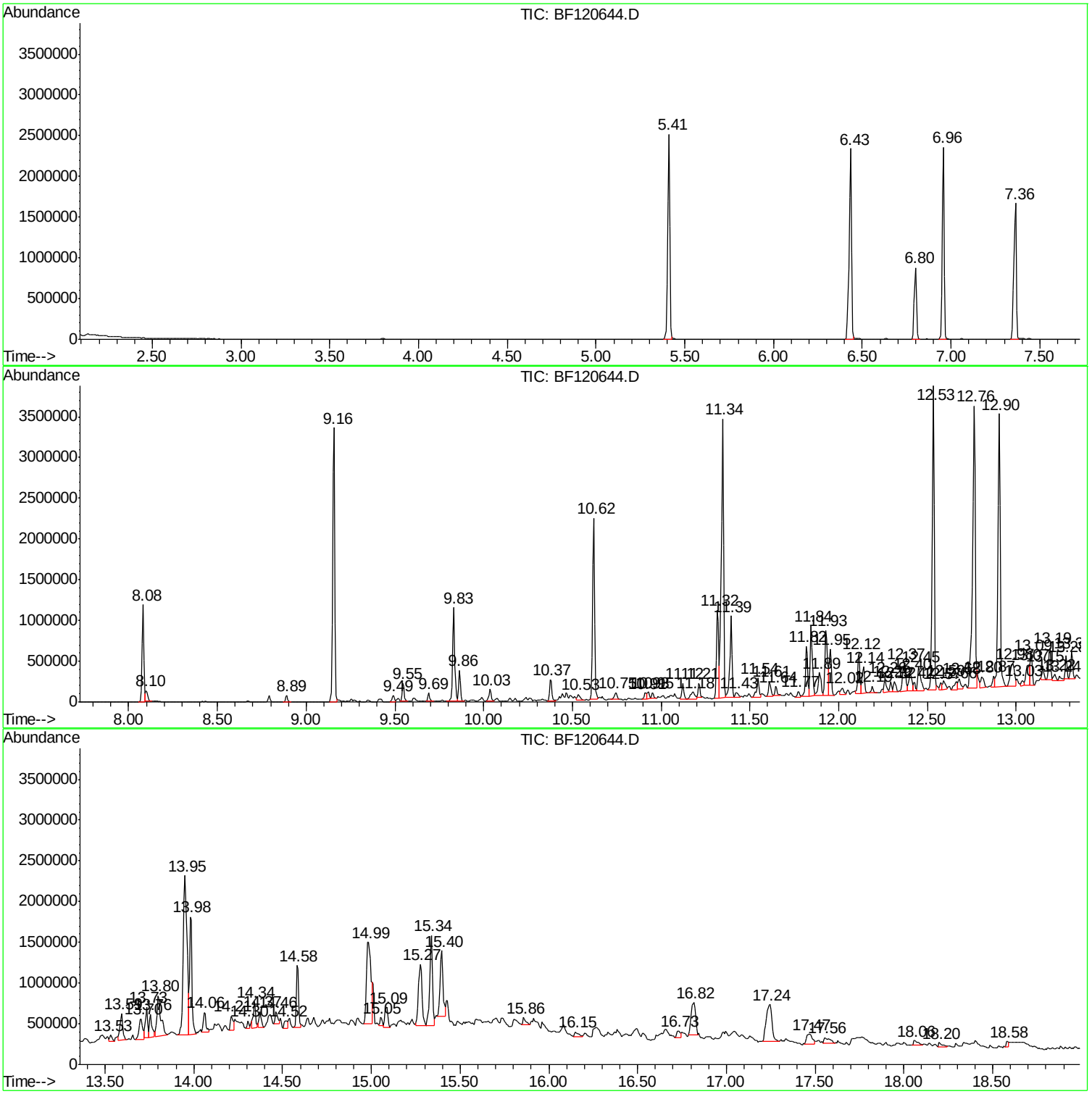
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120644.D
Acq On : 18 Jun 2020 16:14
Operator : JU/CG
Sample : L3046-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ISS-C-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.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\BF061820\
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Acq On : 18 Jun 2020 16:14
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Sample : L3046-12
Misc :
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Instrument : BNA_F
ClientSampleId : ISS-C-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

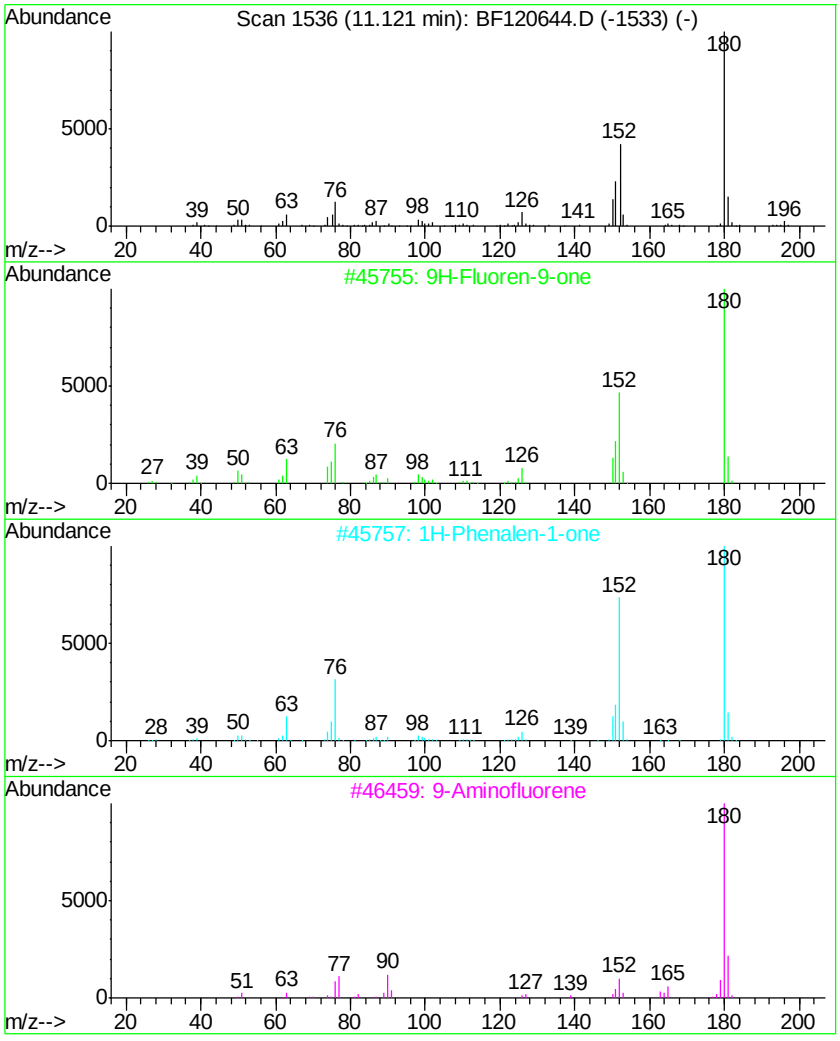
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

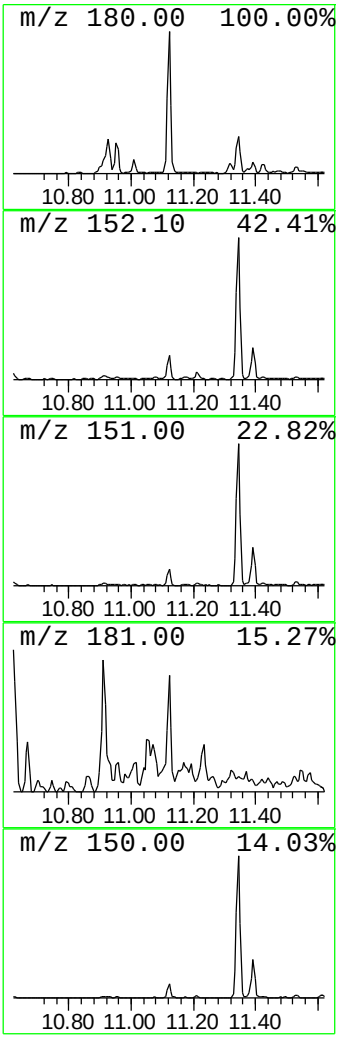
****

Peak Number 2 9H-Fluoren-9-one Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.12	3.10 ng	161097	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	97
2	1H-Phenalen-1-one	180	C13H8O	000548-39-0	52
3	9-Aminofluorene	181	C13H11N	000525-03-1	47
4	Phenazine	180	C12H8N2	000092-82-0	47
5	(E)-Stilbene	180	C14H12	000103-30-0	46





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120644.D
Acq On : 18 Jun 2020 16:14
Operator : JU/CG
Sample : L3046-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ISS-C-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

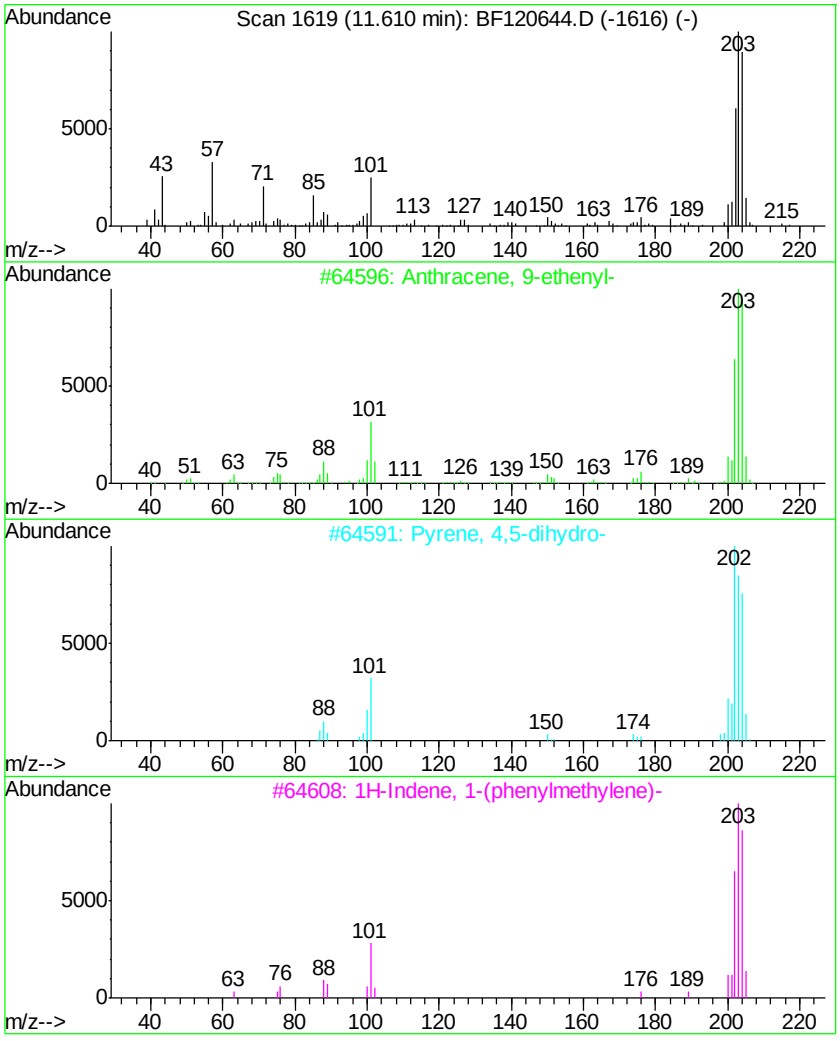
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

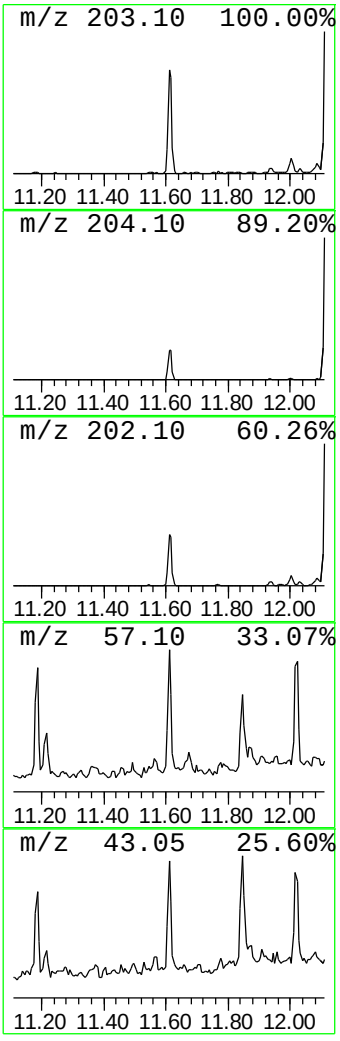
****

Peak Number 3 Anthracene, 9-ethenyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.61	2.88 ng	149535	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	95
2	Pyrene, 4,5-dihydro-	204	C16H12	006628-98-4	76
3	1H-Indene, 1-(phenylmethylene)-	204	C16H12	005394-86-5	70
4	Dibenzo[a,e]cyclooctene	204	C16H12	000262-89-5	70
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	70





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
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Sample : L3046-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ISS-C-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.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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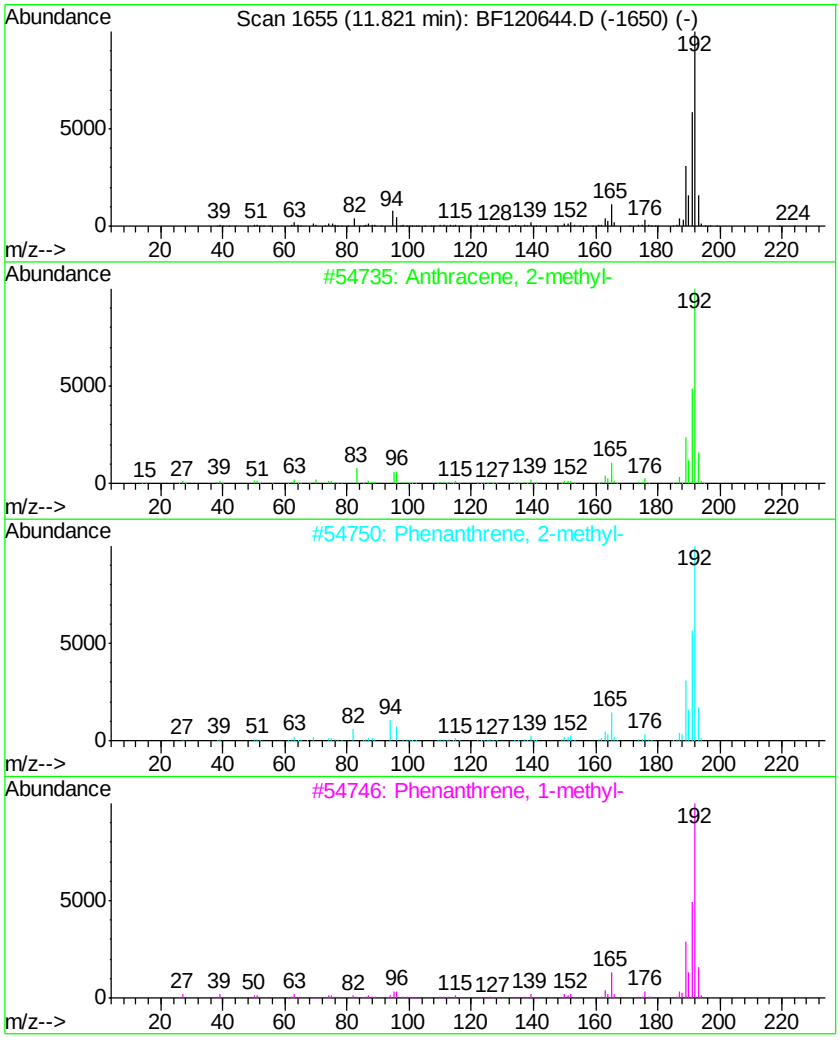
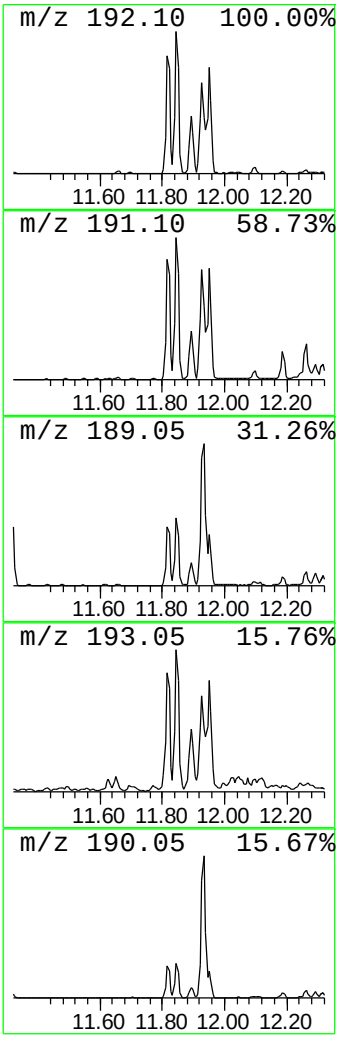
Peak Number 4 Anthracene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.82	11.21 ng	581493	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	93
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120644.D
Acq On : 18 Jun 2020 16:14
Operator : JU/CG
Sample : L3046-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ISS-C-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.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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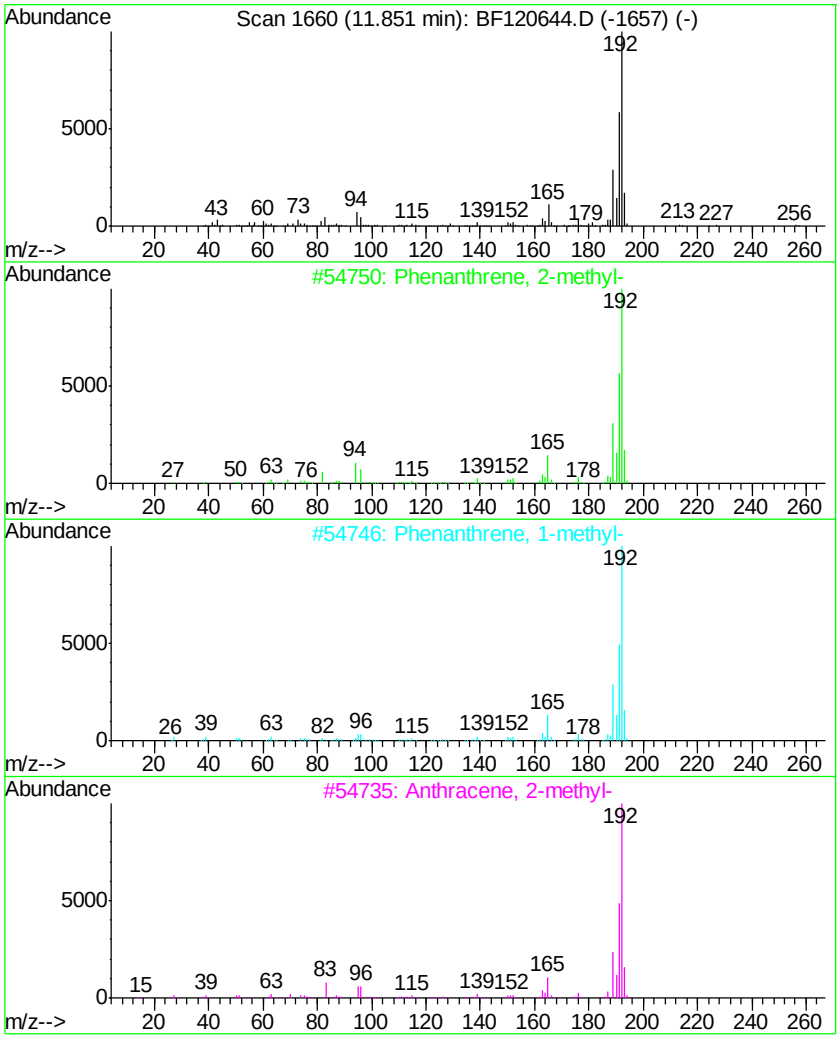
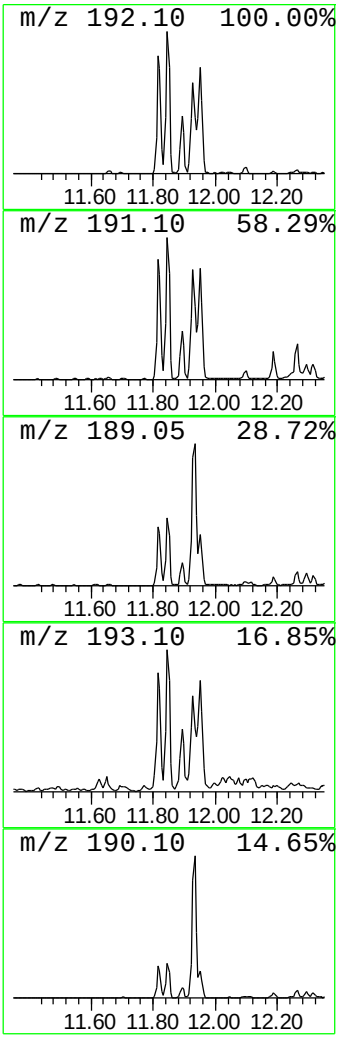
Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.85	13.39 ng	694688	Phenanthrene-d10	11.32

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	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120644.D
Acq On : 18 Jun 2020 16:14
Operator : JU/CG
Sample : L3046-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ISS-C-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.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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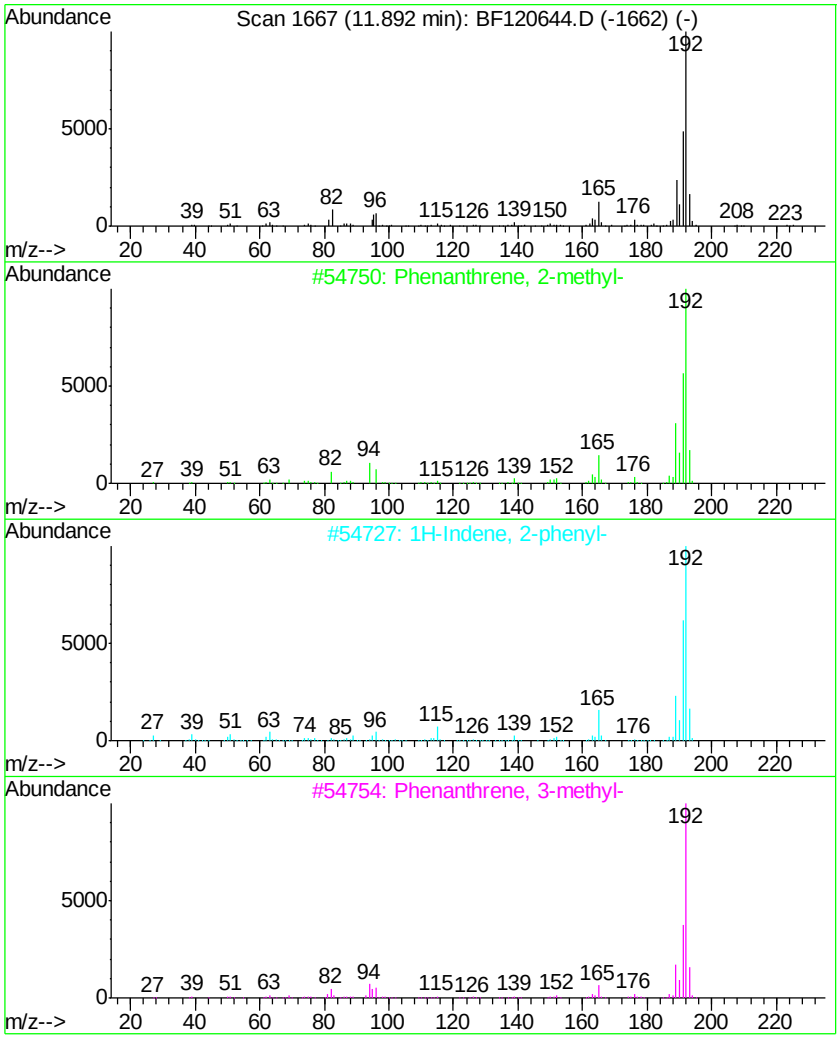
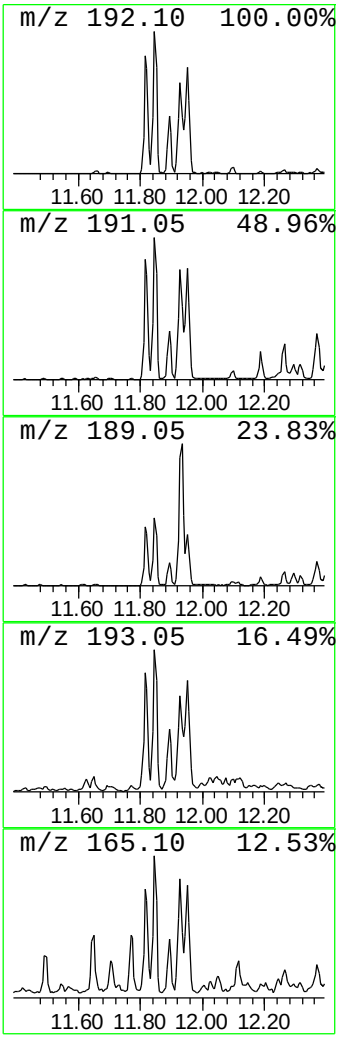
Peak Number 6 1H-Indene, 2-phenyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	5.46 ng	283423	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95
3	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	95
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94





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Sample : L3046-12
Misc :
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ClientSampleId : ISS-C-C

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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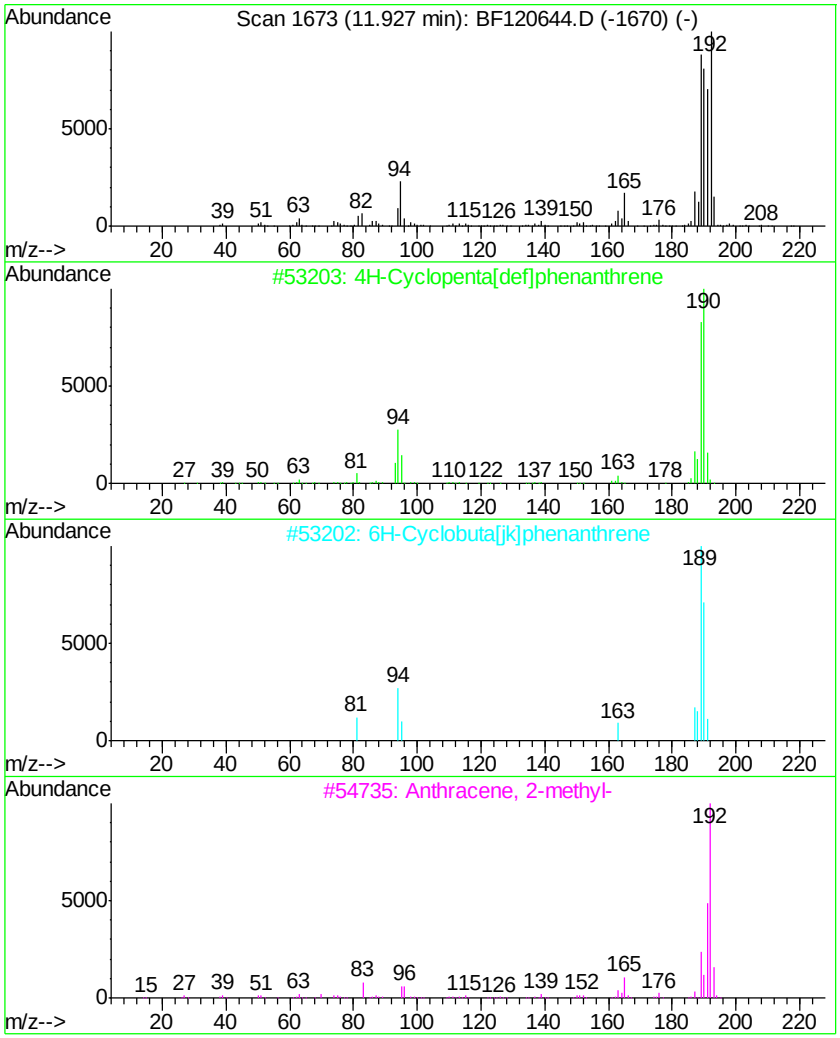
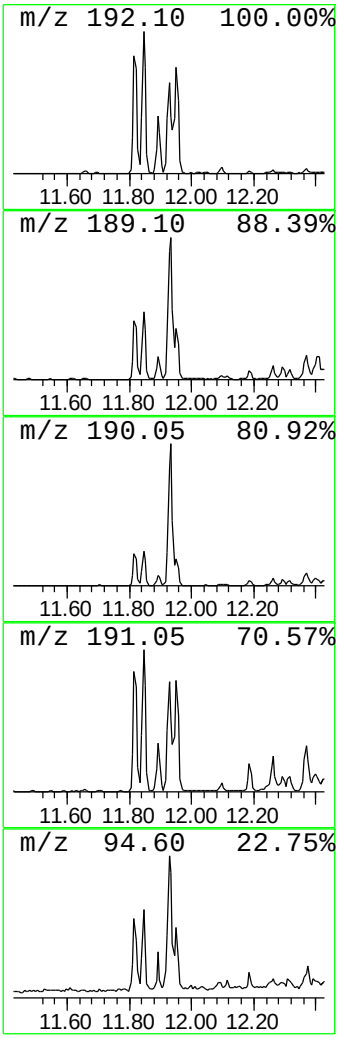
Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.93	18.07 ng	937520	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	46
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	46
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	42





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Instrument : BNA_F
ClientSampleId : ISS-C-C

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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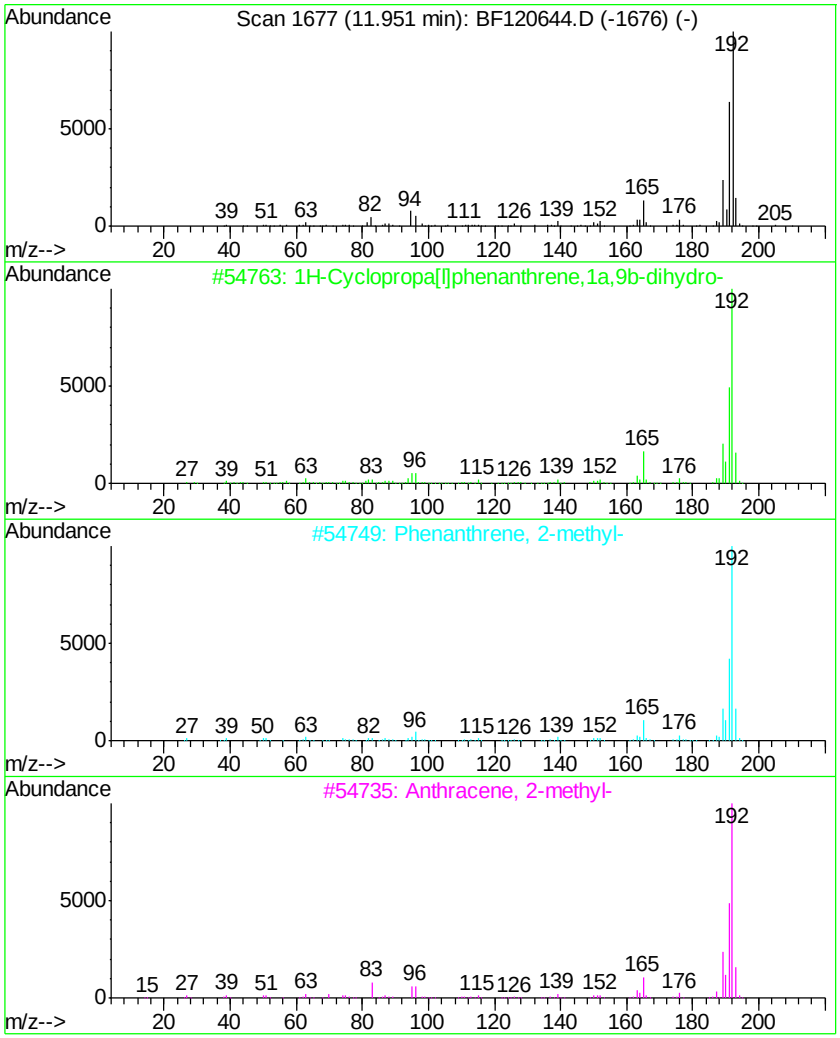
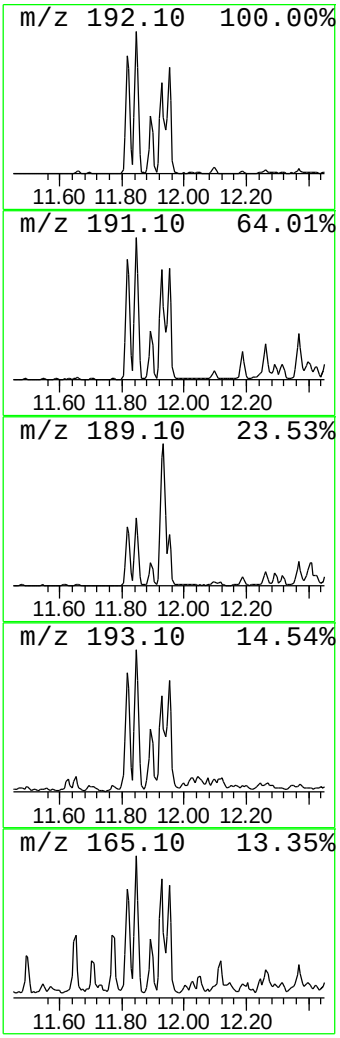
Peak Number 8 1H-Cyclopropa[l]phenanthren... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.95	6.93 ng	359396	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	94





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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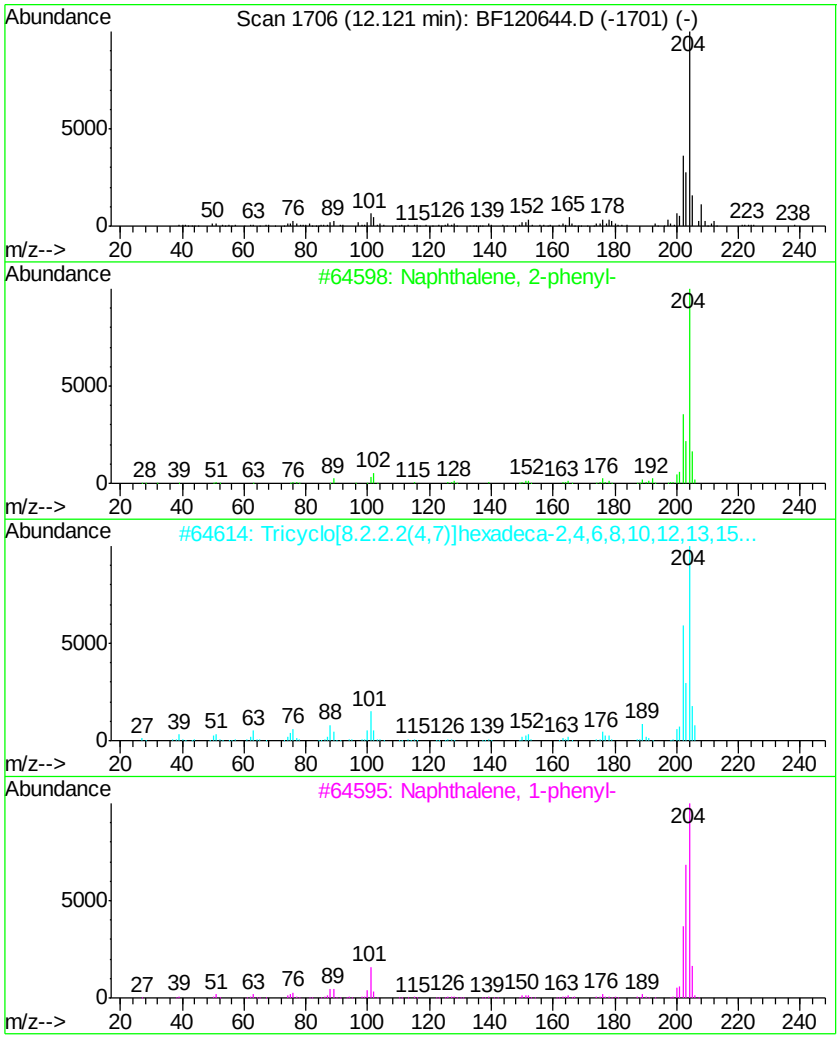
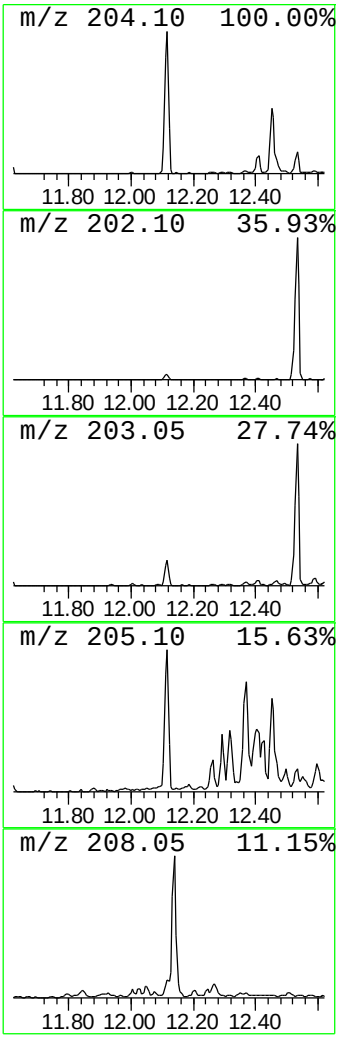
Peak Number 9 Naphthalene, 2-phenyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	9.28 ng	481791	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	76
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	74
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	58
4	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	52
5	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	50





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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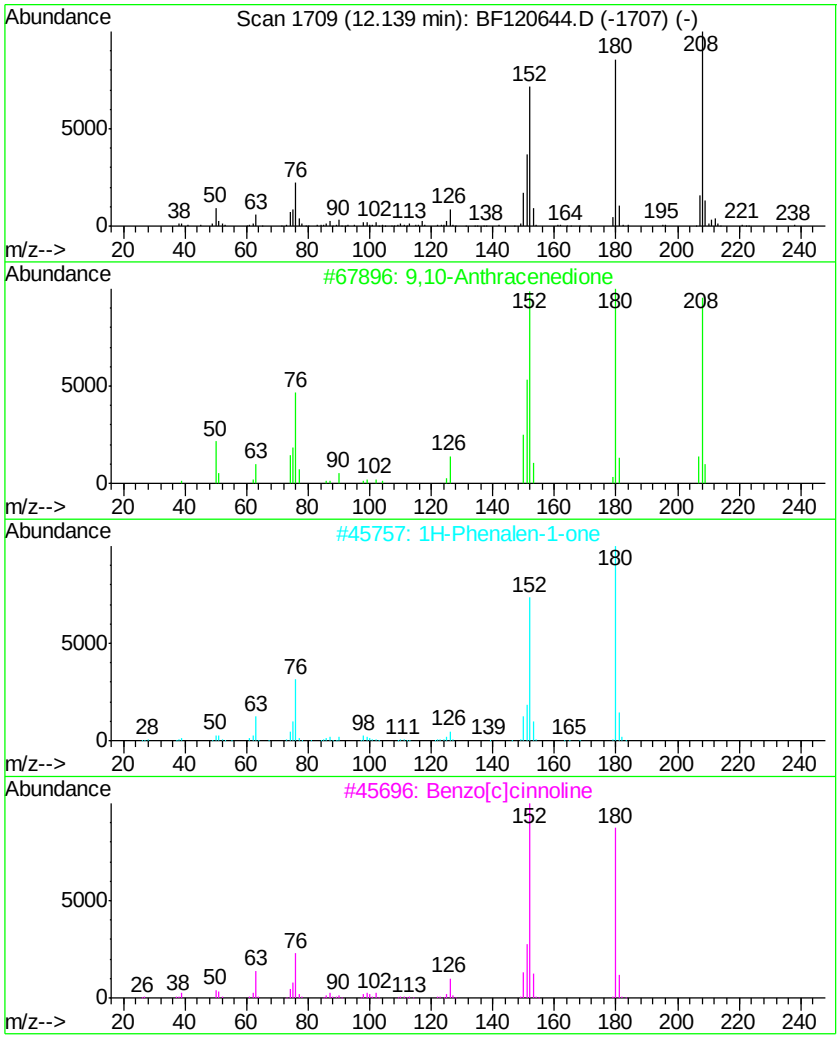
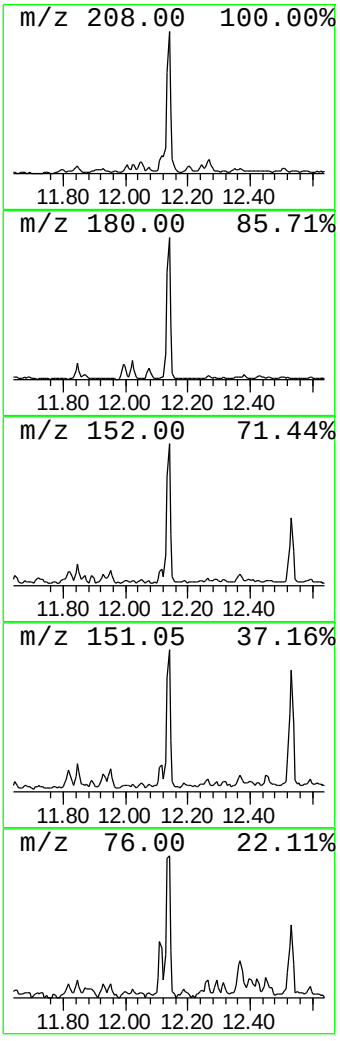
Peak Number 10 9,10-Anthracenedione Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.14	5.30 ng	274930	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
2	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	60
4	5,6-Dimethyl-1,10-phenanthroline	208	C14H12N2	003002-81-1	47
5	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	38





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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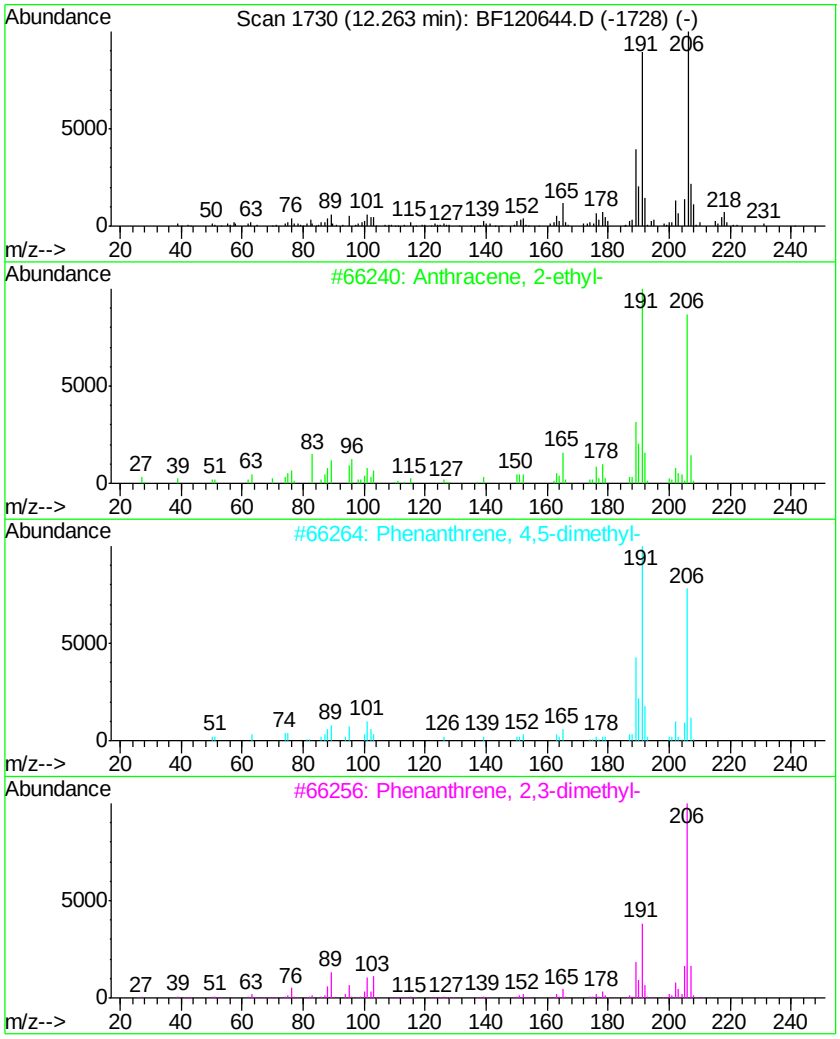
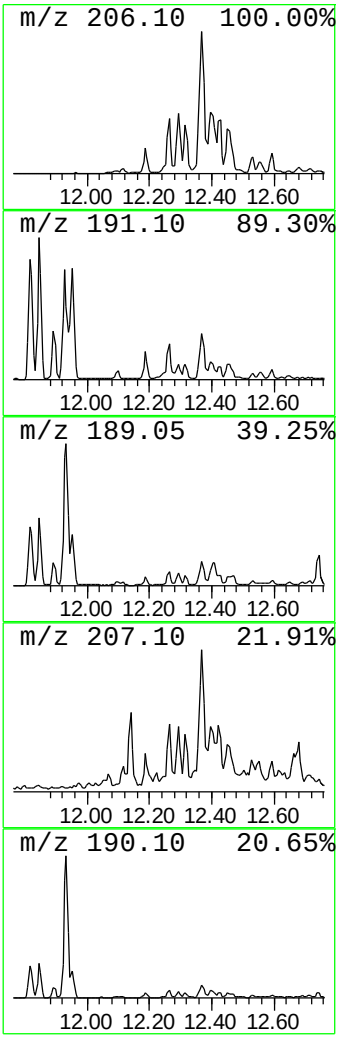
Peak Number 11 Anthracene, 2-ethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.26	2.88 ng	149570	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	95
2	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	94
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90
4	Phenanthrene, 9,10-dimethyl-	206	C16H14	000604-83-1	76
5	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	76





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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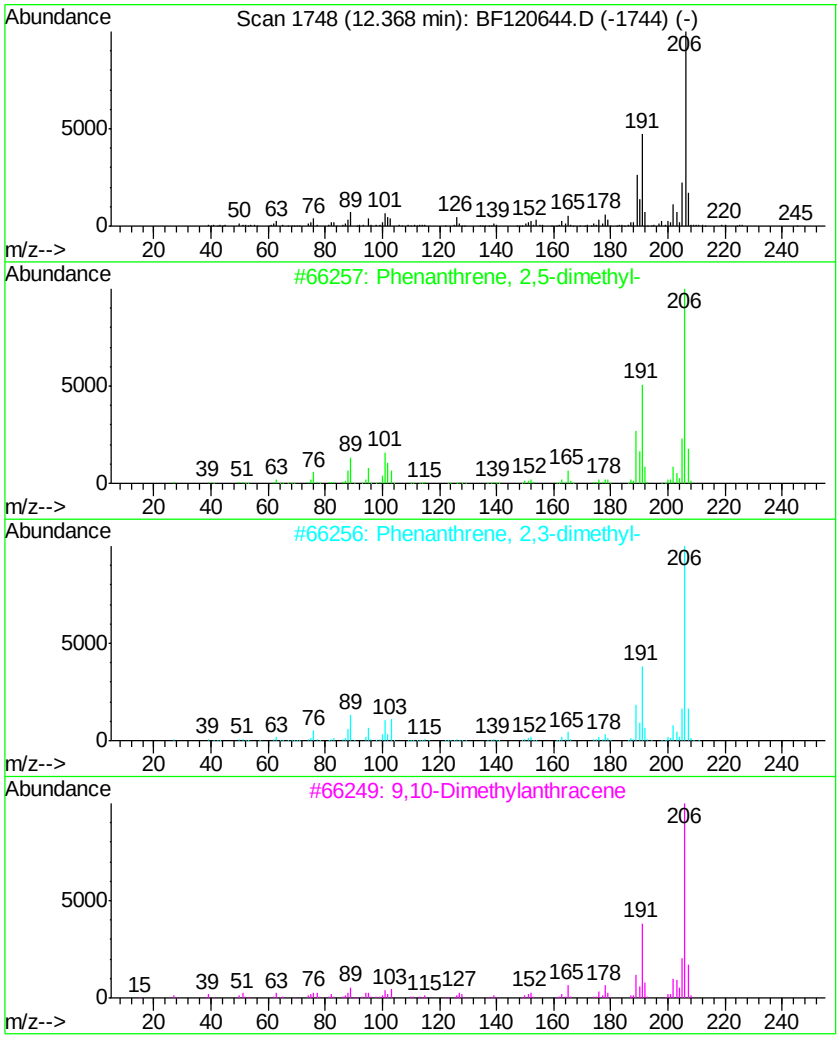
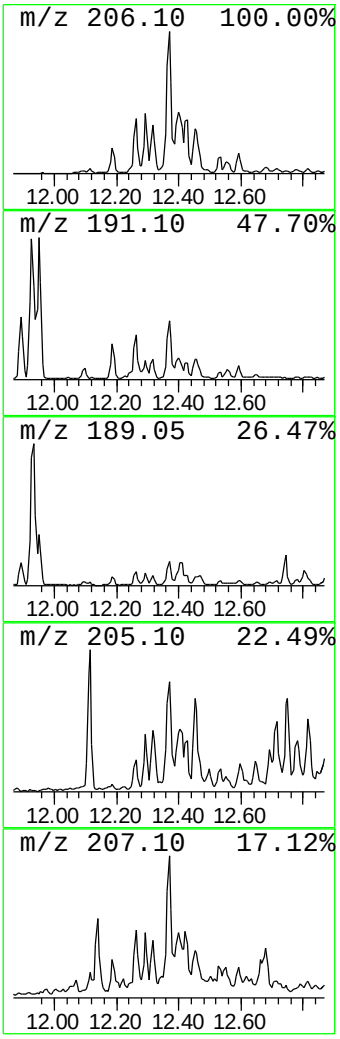
Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.37	7.40 ng	383972	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	89
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	81





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ClientSampleId : ISS-C-C

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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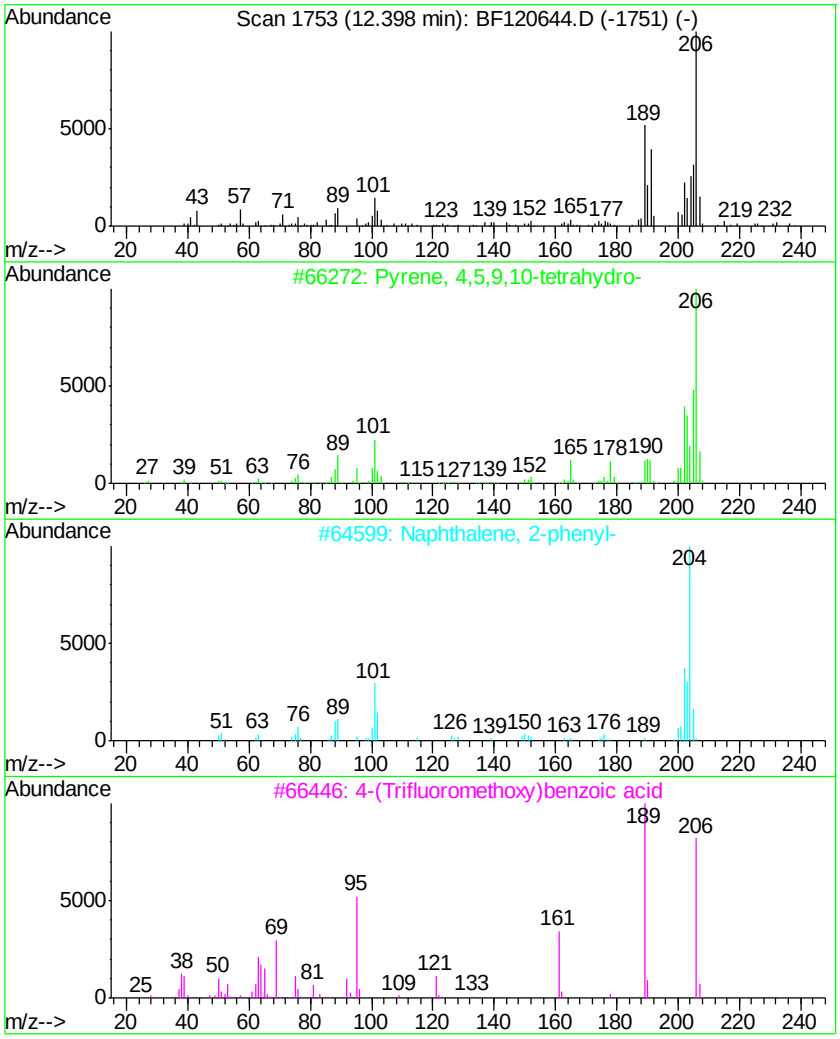
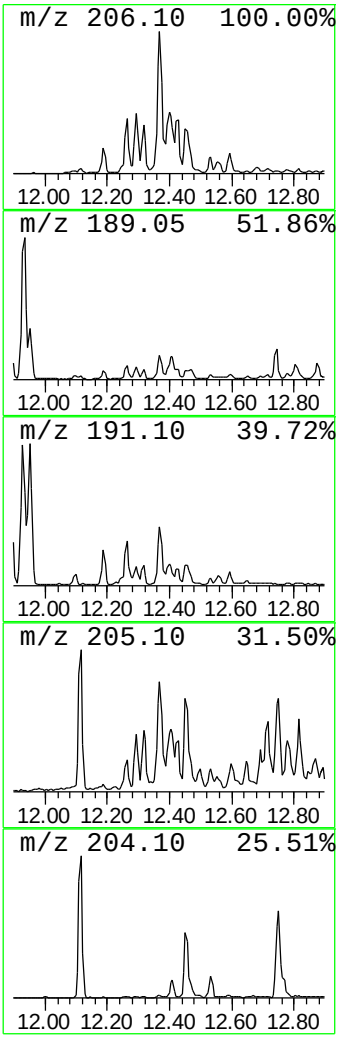
Peak Number 13 unknown12.40 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	4.88 ng	253041	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	30
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	30
3	4-(Trifluoromethoxy)benzoic acid	206	C8H5F3O3	000330-12-1	25
4	1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	25
5	5-Methyl-2-(p-tolylimino)-1,3-th...	206	C11H14N2S	070446-87-6	25





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

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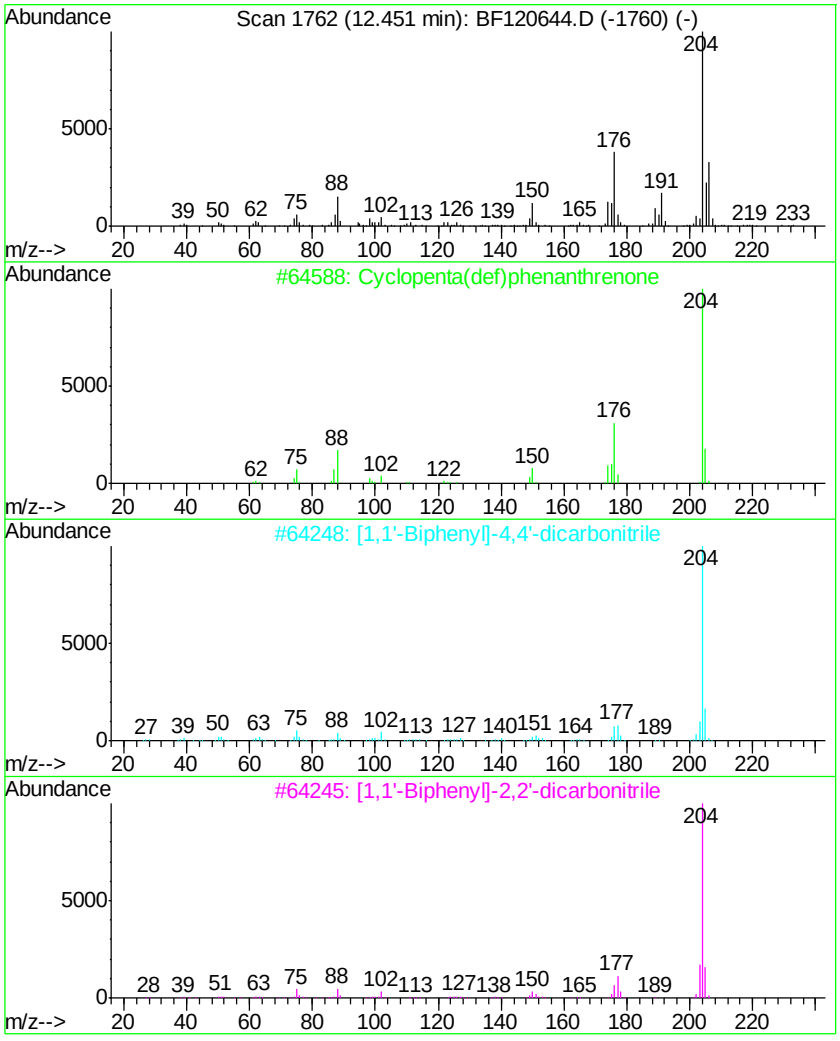
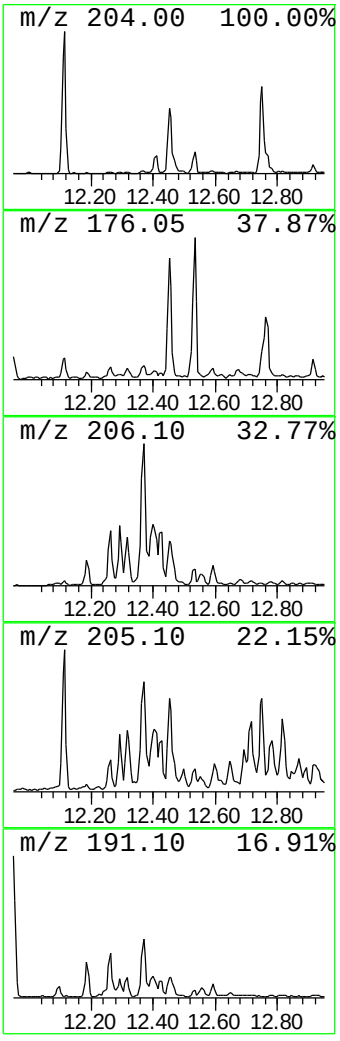
Peak Number 14 Cyclopenta(def)phenanthrenone Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.45	6.38 ng	331109	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	95
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	52
3	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	49
4	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	49
5	[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	47





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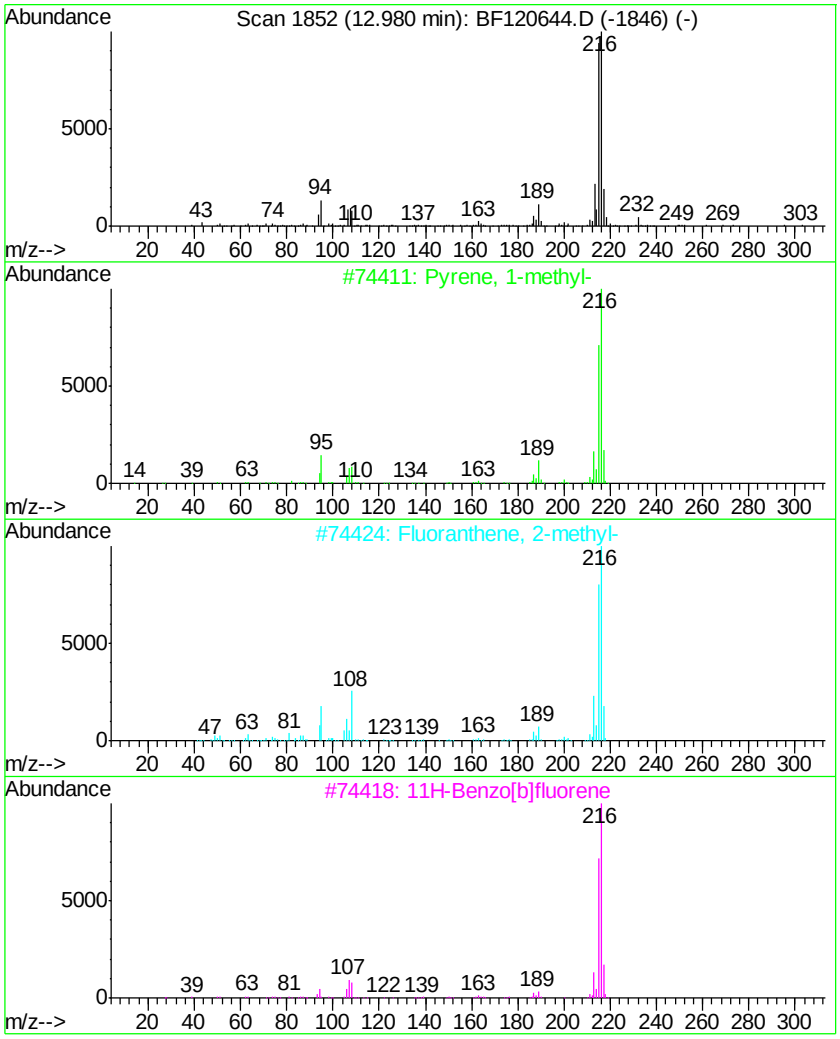
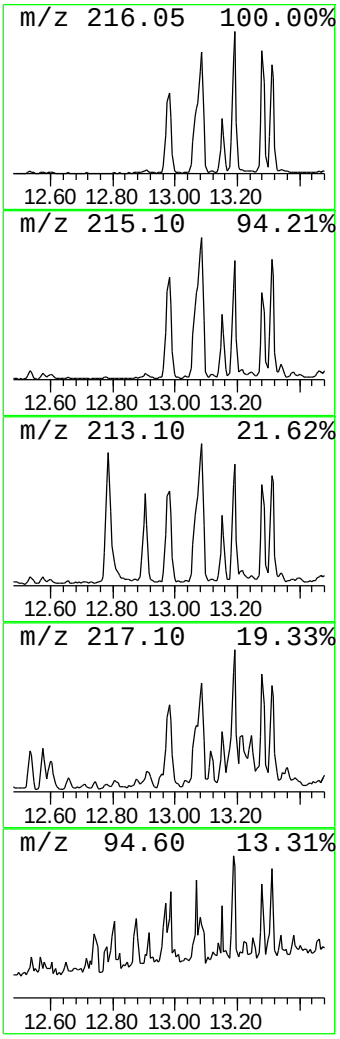
Peak Number 15 Pyrene, 1-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.98	3.12 ng	447436	Chrysene-d12	13.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	83
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	76





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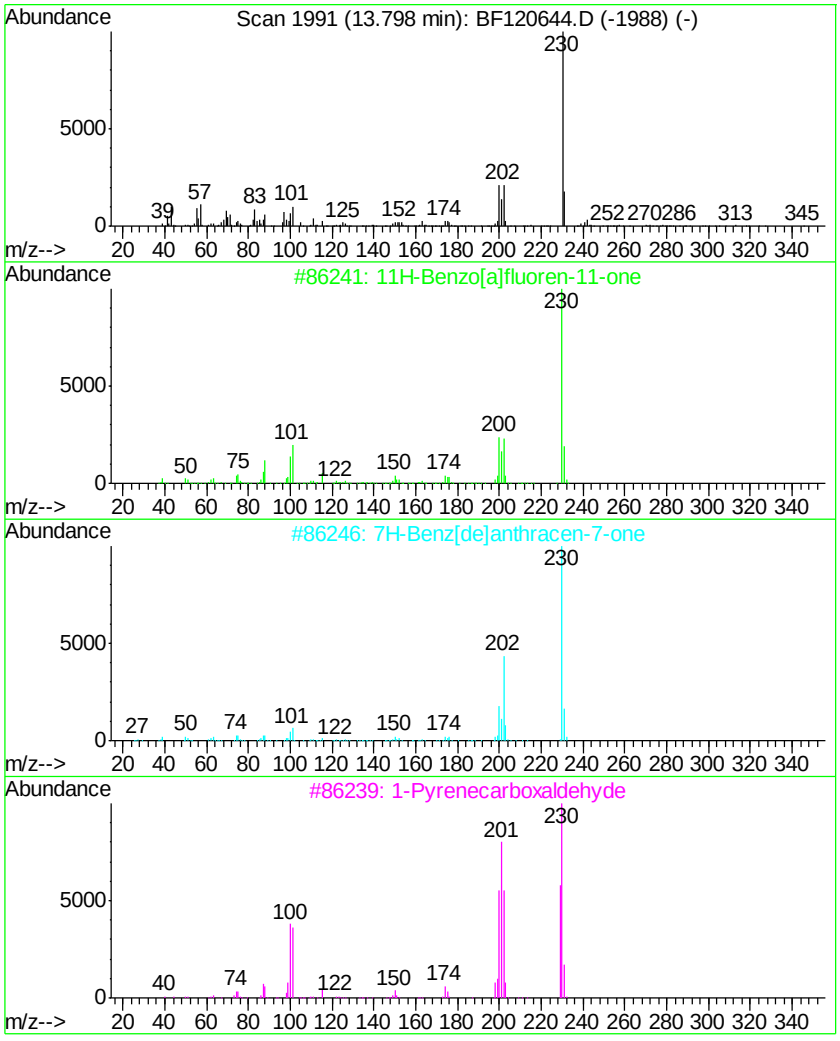
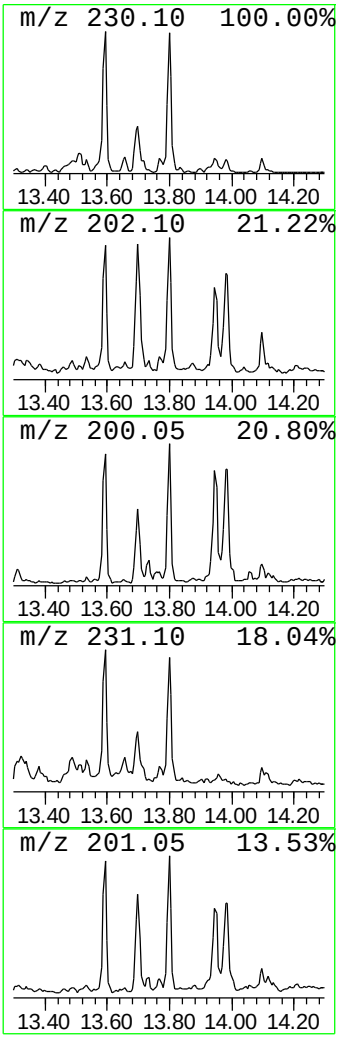
Peak Number 16 11H-Benzo[a]fluoren-11-one Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.80	5.33 ng	765250	Chrysene-d12	13.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	97
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
3	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	64
4	Pyrene, 1,3-dimethyl-	230	C18H14	064401-21-4	50
5	5,6-Dihydrochrysene	230	C18H14	002091-92-1	50





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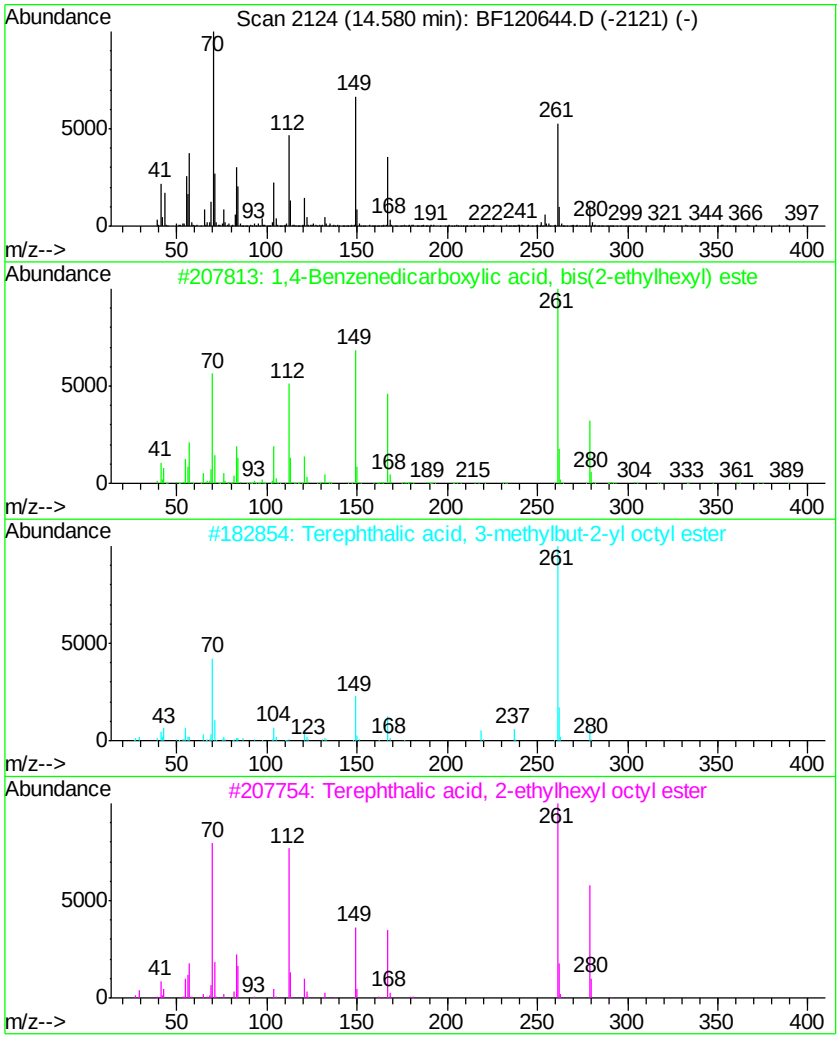
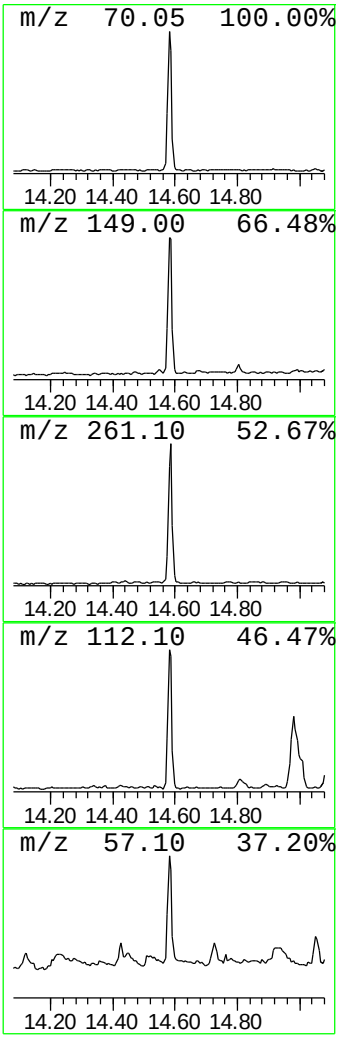
Peak Number 17 1,4-Benzenedicarboxylic aci... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.58	5.18 ng	743791	Chrysene-d12	13.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Benzenedicarboxylic acid, bi...	390	C24H38O4	006422-86-2	68
2	Terephthalic acid, 3-methylbut-2...	348	C21H32O4	1000356-27-6	59
3	Terephthalic acid, 2-ethylhexyl ...	390	C24H38O4	1000324-00-5	50
4	1,3-Benzenedicarboxylic acid, bi...	390	C24H38O4	000137-89-3	49
5	Terephthalic acid, monochloride,...	296	C16H21ClO3	1000324-22-9	43





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Instrument : BNA_F
ClientSampleId : ISS-C-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.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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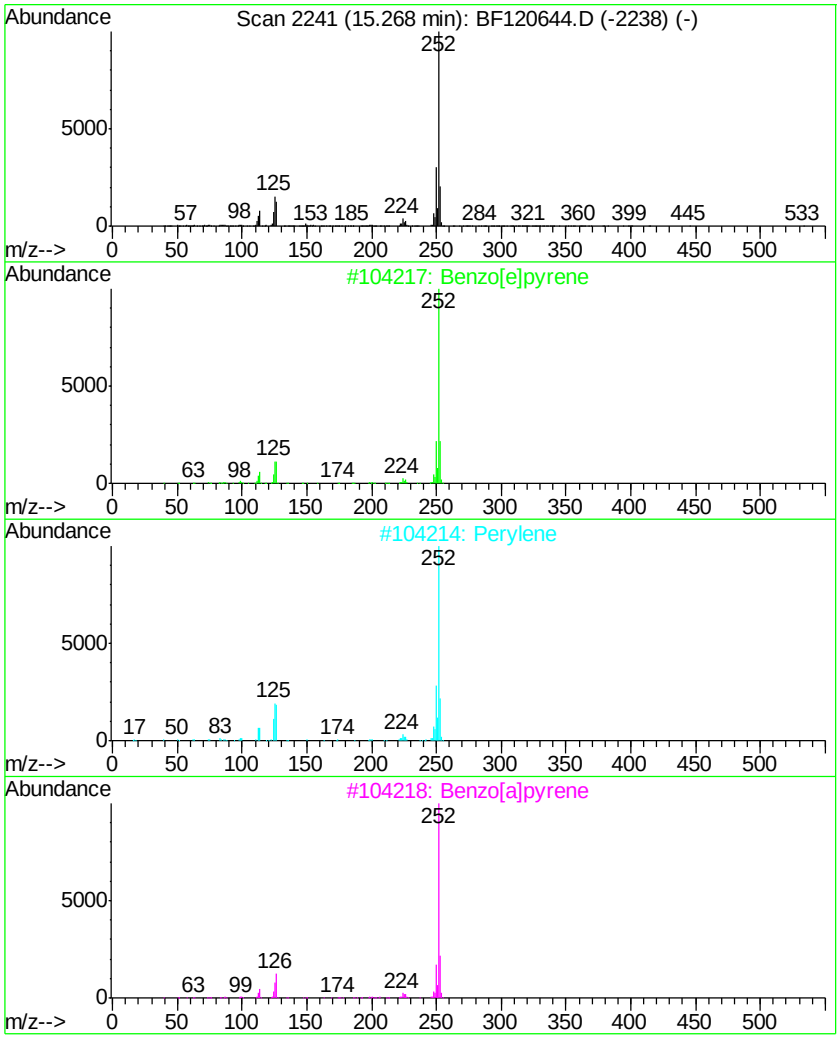
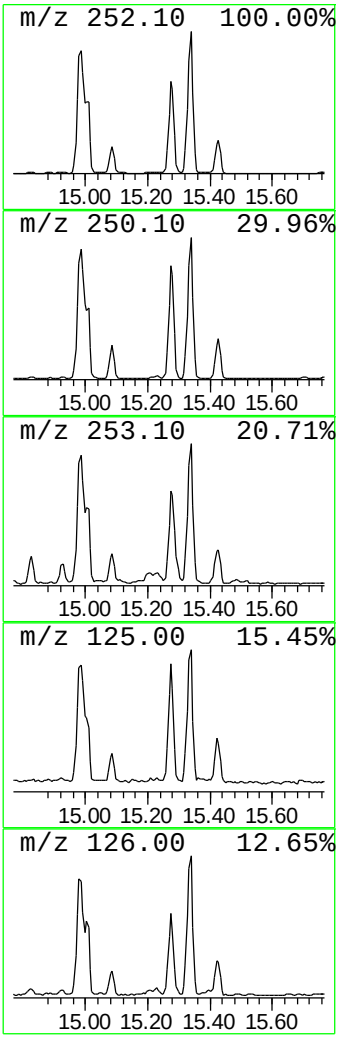
Peak Number 19 Benzo[e]pyrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.27	19.33 ng	977256	Perylene-d12	15.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Perylene	252	C20H12	000198-55-0	93
3	Benzo[a]pyrene	252	C20H12	000050-32-8	93
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120644.D
Acq On : 18 Jun 2020 16:14
Operator : JU/CG
Sample : L3046-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ISS-C-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.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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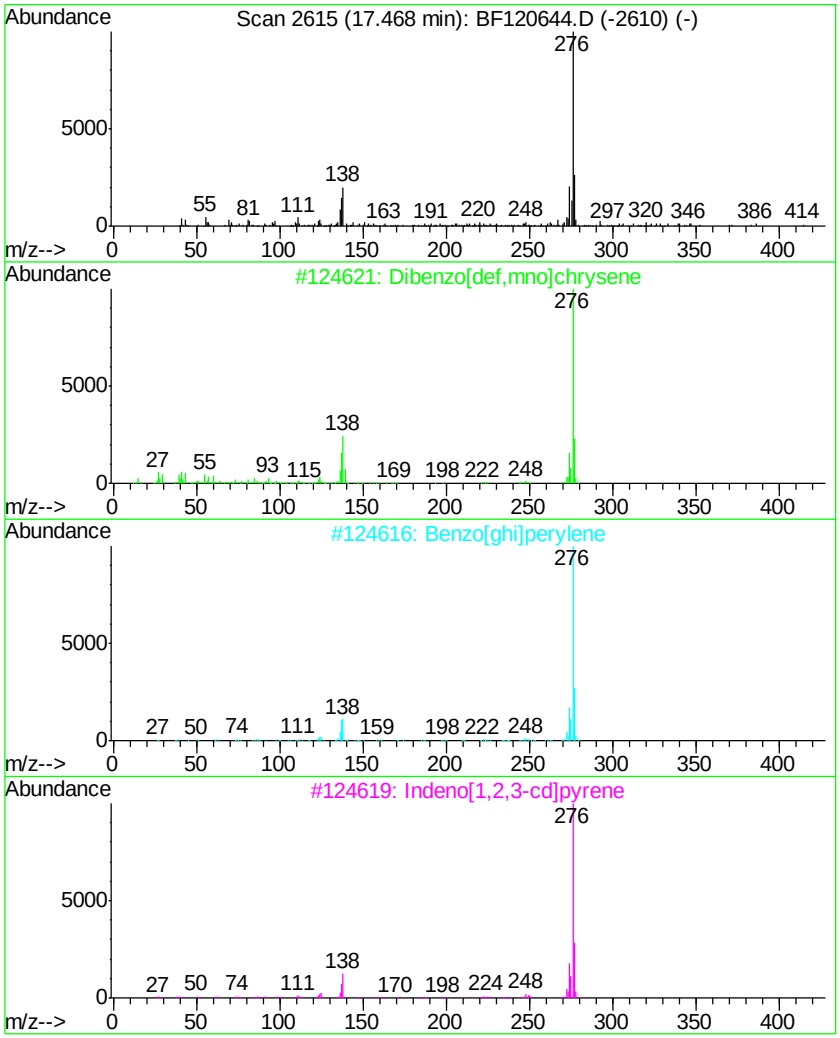
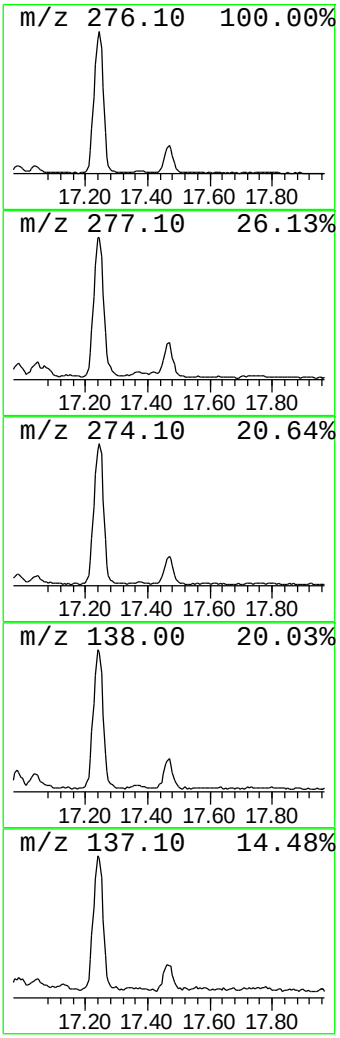
Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.47	5.58 ng	282013	Perylene-d12	15.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	96
2	Benzo[ghi]perylene	276	C22H12	000191-24-2	95
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	91
4	Cyclodecacyclododecene, 1,2,3,4,...	276	C20H36	014113-80-5	87
5	Phenol, 2-(4-chlorophenyliminome...	276	C13H9ClN2O3	1000262-90-3	59





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF061820\
Data File : BF120644.D
Acq On : 18 Jun 2020 16:14
Operator : JU/CG
Sample : L3046-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ISS-C-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
9H-Fluoren-9-one	11.12	3.1	ng	161097	4	11.32	1037840	20.0
Anthracene, 9-eth...	11.61	2.9	ng	149535	4	11.32	1037840	20.0
Anthracene, 2-met...	11.82	11.2	ng	581493	4	11.32	1037840	20.0
Phenanthrene, 2-m...	11.85	13.4	ng	694688	4	11.32	1037840	20.0
1H-Indene, 2-phenyl-	11.89	5.5	ng	283423	4	11.32	1037840	20.0
4H-Cyclopenta[def...	11.93	18.1	ng	937520	4	11.32	1037840	20.0
1H-Cyclopropa[l]p...	11.95	6.9	ng	359396	4	11.32	1037840	20.0
Naphthalene, 2-ph...	12.12	9.3	ng	481791	4	11.32	1037840	20.0
9,10-Anthracenedione	12.14	5.3	ng	274930	4	11.32	1037840	20.0
Anthracene, 2-ethyl-	12.26	2.9	ng	149570	4	11.32	1037840	20.0
Phenanthrene, 2,5...	12.37	7.4	ng	383972	4	11.32	1037840	20.0
unknown12.40	12.40	4.9	ng	253041	4	11.32	1037840	20.0
Cyclopenta(def)ph...	12.45	6.4	ng	331109	4	11.32	1037840	20.0
Pyrene, 1-methyl-	12.98	3.1	ng	447436	5	13.96	2871860	20.0
11H-Benzo[a]fluor...	13.80	5.3	ng	765250	5	13.96	2871860	20.0
1,4-Benzenedicarb...	14.58	5.2	ng	743791	5	13.96	2871860	20.0
Benzo[e]pyrene	15.27	19.3	ng	977256	6	15.40	1011370	20.0
Dibenzo[def,mno]c...	17.47	5.6	ng	282013	6	15.40	1011370	20.0