LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041620\
Data File : BF120040.D
Acq On : 16 Apr 2020 17:04
Operator : MA/SJ
Sample : L2230-63 5X
Misc :
ALS Vial : 48 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-31-39

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-BF040820.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	5.322	547	550	564	rVB	809076	722220	41.10%	2.694%
2	6.357	722	726	734	rBV	738518	709702	40.39%	2.647%
3	6.722	785	788	792	rBV	921352	774980	44.10%	2.890%
4	6.881	811	815	818	rBV	751602	613279	34.90%	2.287%
5	7.287	880	884	887	rBV	530904	440257	25.05%	1.642%
6	8.010	1003	1007	1009	rBV	1265892	1020695	58.09%	3.807%
7	8.028	1009	1010	1014	rVB	381996	298506	16.99%	1.113%
8	8.722	1125	1128	1132	rBV	148385	115391	6.57%	0.430%
9	8.822	1141	1145	1149	rBV	114464	84969	4.84%	0.317%
10	9.087	1186	1190	1193	rBV	1101340	805562	45.84%	3.004%
11	9.187	1200	1207	1213	rVB2	44716	57915	3.30%	0.216%
12	9.351	1231	1235	1239	rBV2	35752	48368	2.75%	0.180%
13	9.422	1244	1247	1250	rBV	66889	65403	3.72%	0.244%
14	9.451	1250	1252	1254	rVV	54447	38483	2.19%	0.144%
15	9.481	1254	1257	1262	rVV	113887	107048	6.09%	0.399%
16	9.539	1264	1267	1272	rVB2	35140	42242	2.40%	0.158%
17	9.622	1279	1281	1285	rVB	114571	99445	5.66%	0.371%
18	9.763	1300	1305	1308	rBV	1100135	997720	56.78%	3.721%
19	9.798	1308	1311	1315	rVV	177553	152347	8.67%	0.568%
20	9.922	1328	1332	1334	rBV2	18436	18918	1.08%	0.071%
21	9.969	1336	1340	1344	rBV	191827	157606	8.97%	0.588%
22	10.010	1344	1347	1349	rVB	25559	19674	1.12%	0.073%
23	10.081	1355	1359	1362	rBV2	27681	27024	1.54%	0.101%
24	10.110	1362	1364	1367	rVB	24502	18791	1.07%	0.070%
25	10.175	1370	1375	1377	rBV	26157	31541	1.79%	0.118%
26	10.310	1395	1398	1404	rVB	217864	196009	11.15%	0.731%
27	10.469	1423	1425	1429	rVB	55098	46361	2.64%	0.173%
28	10.551	1435	1439	1443	rBV	490651	418928	23.84%	1.562%
29	10.598	1443	1447	1450	rVB4	18350	26152	1.49%	0.098%
30	10.681	1458	1461	1465	rBV2	43187	45050	2.56%	0.168%
31	10.863	1485	1492	1494	rBV4	51383	79352	4.52%	0.296%
32	10.886	1494	1496	1499	rVV	129249	98243	5.59%	0.366%
33	10.945	1499	1506	1509	rVV2	21286	39142	2.23%	0.146%
34	10.992	1512	1514	1515	rVV	31513	27674	1.57%	0.103%

LSC Area Percent Report

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Operator : MA/SJ
Sample : L2230-63 5X
Misc :
ALS Vial : 48 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-31-39

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-BF040820.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.010	1515	1517	1520	rVV3	39956	44813	2.55%	0.167%
36	11.057	1522	1525	1529	rVV	94271	84892	4.83%	0.317%
37	11.104	1529	1533	1536	rVV3	36666	55379	3.15%	0.207%
38	11.145	1538	1540	1546	rVB	107003	101367	5.77%	0.378%
39	11.251	1554	1558	1560	rBV	964628	838798	47.74%	3.128%
40	11.275	1560	1562	1566	rVV	1665432	1320338	75.14%	4.924%
41	11.328	1566	1571	1574	rVV	292745	270838	15.41%	1.010%
42	11.363	1574	1577	1581	rVV2	47076	47384	2.70%	0.177%
43	11.480	1591	1597	1600	rBV2	174008	180346	10.26%	0.673%
44	11.551	1607	1609	1612	rBV3	41776	34837	1.98%	0.130%
45	11.580	1612	1614	1620	rVB2	45235	47768	2.72%	0.178%
46	11.663	1626	1628	1633	rVB	24009	25411	1.45%	0.095%
47	11.710	1633	1636	1638	rBV2	22742	22707	1.29%	0.085%
48	11.751	1639	1643	1646	rVV	191668	183892	10.47%	0.686%
49	11.780	1646	1648	1653	rVV	345018	315614	17.96%	1.177%
50	11.828	1653	1656	1659	rVB2	109423	115540	6.58%	0.431%
51	11.863	1659	1662	1665	rBV	310743	332141	18.90%	1.239%
52	11.886	1665	1666	1671	rVB	151876	100903	5.74%	0.376%
53	11.933	1671	1674	1676	rBV3	32609	35741	2.03%	0.133%
54	11.963	1676	1679	1682	rBV4	36913	50589	2.88%	0.189%
55	12.051	1691	1694	1696	rBV	141502	121753	6.93%	0.454%
56	12.075	1696	1698	1702	rVB	176343	140067	7.97%	0.522%
57	12.198	1714	1719	1722	rBV2	68194	75872	4.32%	0.283%
58	12.227	1722	1724	1727	rVV	51327	52940	3.01%	0.197%
59	12.257	1727	1729	1731	rVB	43695	35185	2.00%	0.131%
60	12.304	1731	1737	1740	rBV	145579	176245	10.03%	0.657%
61	12.339	1740	1743	1745	rVV2	79119	97177	5.53%	0.362%
62	12.386	1749	1751	1756	rVB2	103140	114968	6.54%	0.429%
63	12.469	1761	1765	1768	rVB	1734852	1531606	87.16%	5.712%
64	12.510	1768	1772	1774	rBV2	35815	45752	2.60%	0.171%
65	12.557	1778	1780	1782	rBV	56658	57978	3.30%	0.216%
66	12.692	1796	1803	1806	rBV	1536044	1745803	99.35%	6.511%
67	12.745	1809	1812	1817	rVB3	107868	131650	7.49%	0.491%
68	12.810	1820	1823	1825	rBV	100616	96120	5.47%	0.358%
69	12.839	1825	1828	1835	rVB	766577	739883	42.11%	2.760%
70	12.910	1835	1840	1844	rBV2	127616	209910	11.95%	0.783%
71	12.939	1844	1845	1848	rVB2	47302	36467	2.08%	0.136%

LSC Area Percent Report

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Acq On : 16 Apr 2020 17:04
Operator : MA/SJ
Sample : L2230-63 5X
Misc :
ALS Vial : 48 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-31-39

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

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Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040820.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	12.998	1852	1855	1856	rBV3	77564	86112	4.90%	0.321%
73	13.022	1856	1859	1862	rVB	237430	227806	12.96%	0.850%
74	13.057	1862	1865	1866	rBV2	23613	24093	1.37%	0.090%
75	13.086	1867	1870	1873	rBV	174858	150271	8.55%	0.560%
76	13.122	1873	1876	1879	rBV	176583	170399	9.70%	0.636%
77	13.216	1889	1892	1895	rVB	112842	89098	5.07%	0.332%
78	13.245	1895	1897	1902	rBV2	98659	99586	5.67%	0.371%
79	13.327	1908	1911	1916	rVB6	91388	94610	5.38%	0.353%
80	13.374	1916	1919	1922	rBV	149468	137100	7.80%	0.511%
81	13.422	1925	1927	1929	rBV2	39722	37081	2.11%	0.138%
82	13.527	1943	1945	1950	rVB	137545	146115	8.32%	0.545%
83	13.639	1960	1964	1967	rBV2	153822	192590	10.96%	0.718%
84	13.669	1967	1969	1971	rVV	161460	136427	7.76%	0.509%
85	13.704	1971	1975	1978	rVV3	292876	369683	21.04%	1.379%
86	13.739	1978	1981	1989	rVB2	130243	189920	10.81%	0.708%
87	13.886	1999	2006	2009	rBV2	1195586	1757180	100.00%	6.554%
88	13.916	2009	2011	2017	rVB	771578	801165	45.59%	2.988%
89	13.998	2022	2025	2027	rVB	132592	103164	5.87%	0.385%
90	14.280	2070	2073	2076	rVB	153133	147250	8.38%	0.549%
91	14.310	2076	2078	2082	rVB2	103494	100855	5.74%	0.376%
92	14.374	2086	2089	2091	rBV2	96425	87863	5.00%	0.328%
93	14.404	2092	2094	2096	rBV	69182	66858	3.80%	0.249%
94	14.910	2176	2180	2183	rBV	649924	931271	53.00%	3.473%
95	15.198	2225	2229	2235	rVB	359260	467733	26.62%	1.744%
96	15.257	2235	2239	2245	rVV	500785	625315	35.59%	2.332%
97	15.316	2245	2249	2252	rVV	486685	615525	35.03%	2.296%
98	15.345	2252	2254	2261	rVB3	185669	265765	15.12%	0.991%
99	16.704	2480	2485	2494	rVB2	201110	391665	22.29%	1.461%
100	17.121	2552	2556	2562	rVB	136016	235826	13.42%	0.880%

Sum of corrected areas: 26811997

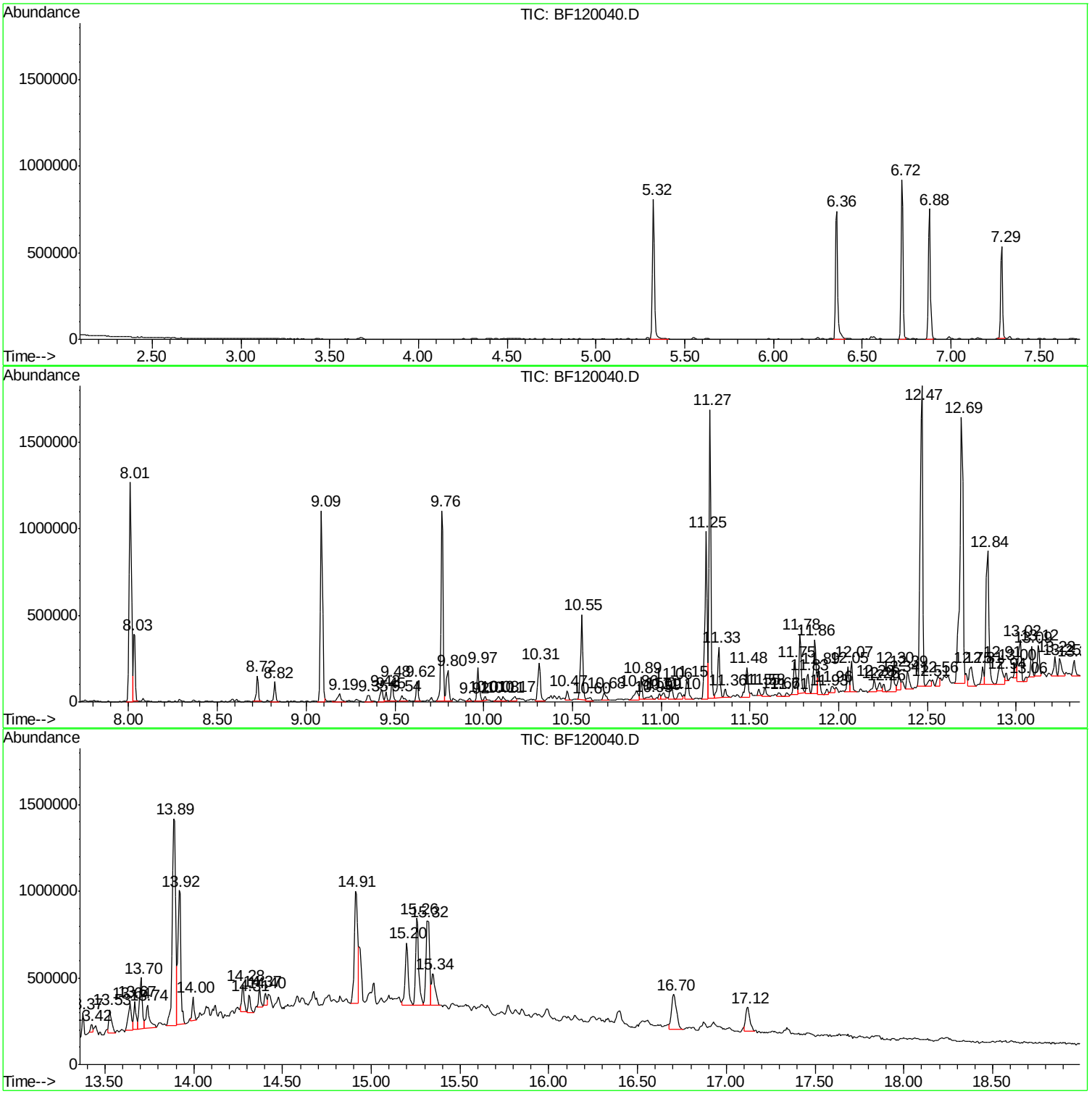
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041620\
Data File : BF120040.D
Acq On : 16 Apr 2020 17:04
Operator : MA/SJ
Sample : L2230-63 5X
Misc :
ALS Vial : 48 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-31-39

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040820.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\BF041620\
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Misc :
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Instrument : BNA_F
ClientSampleId : TP-25-31-39

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

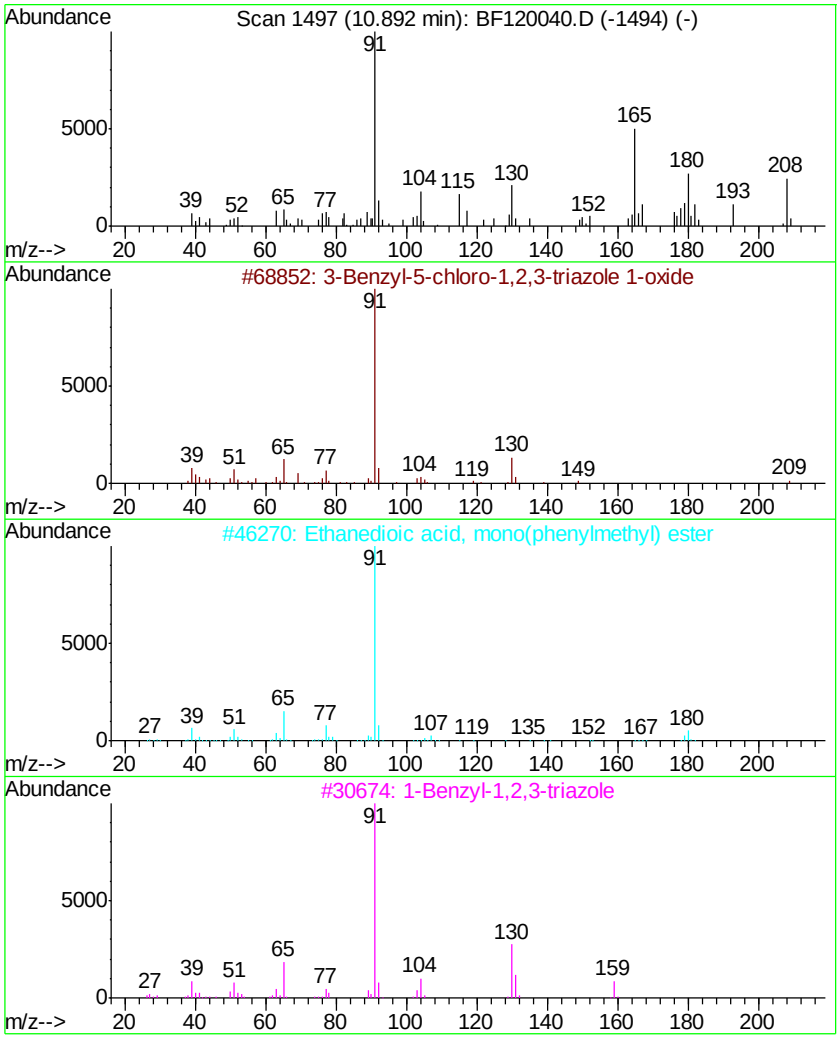
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

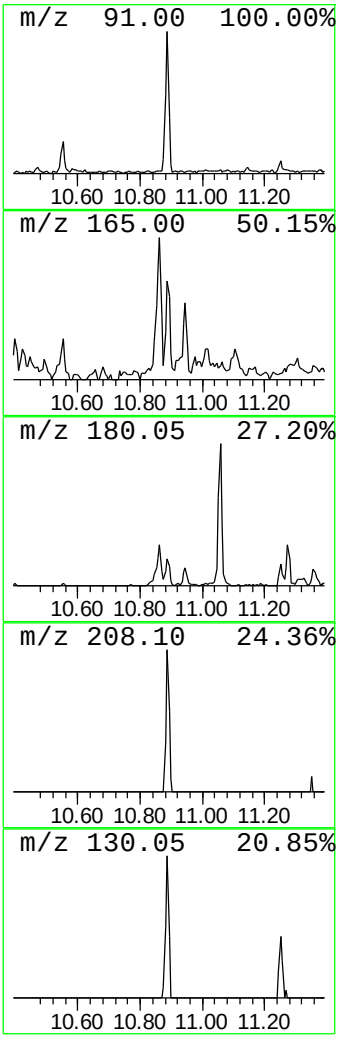
****

Peak Number 2 3-Benzyl-5-chloro-1,2,3-tri... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.89	2.34 ng	98243	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Benzyl-5-chloro-1,2,3-triazole...	209	C9H8ClN3O	116932-67-3	60
2	Ethanedioic acid, mono(phenylmet...	180	C9H8O4	035448-14-7	35
3	1-Benzyl-1,2,3-triazole	159	C9H9N3	004368-68-7	12
4	Benzene, (2,2,2-triethoxyethyl)-	238	C14H22O3	016754-56-6	12
5	3-Benzyl-4-chloro-1,2,3-triazole...	209	C9H8ClN3O	116932-63-9	11





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041620\
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Operator : MA/SJ
Sample : L2230-63 5X
Misc :
ALS Vial : 48 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-31-39

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

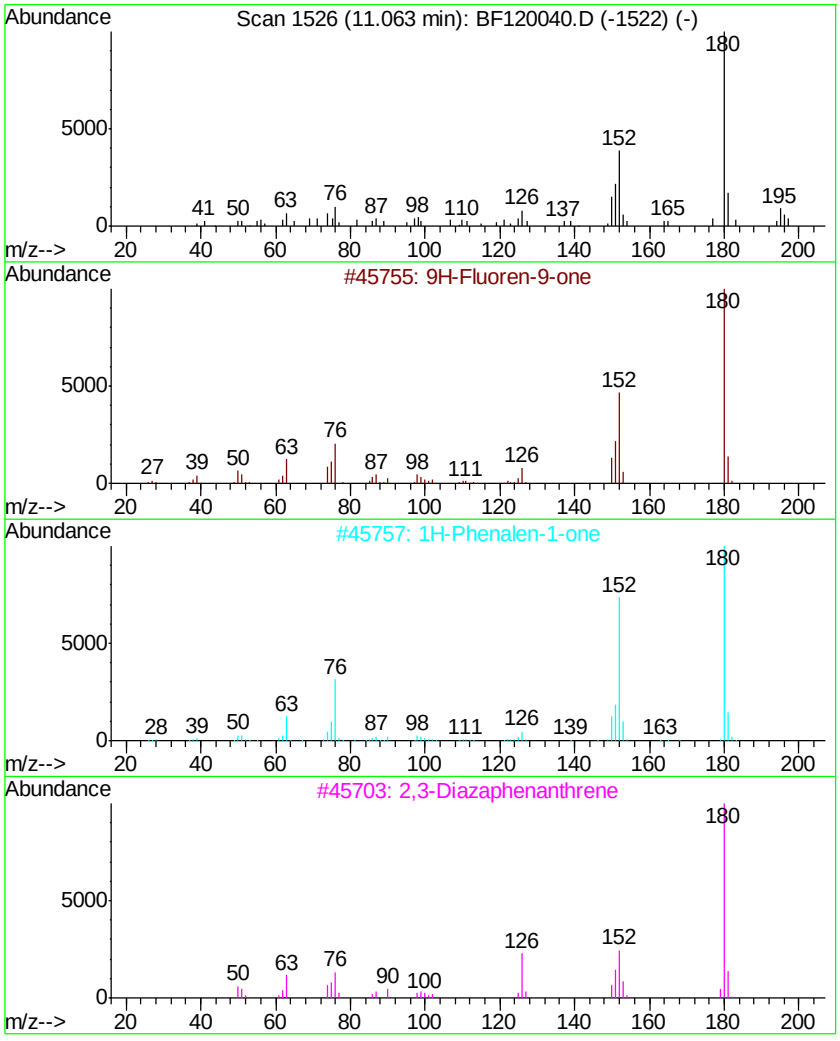
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

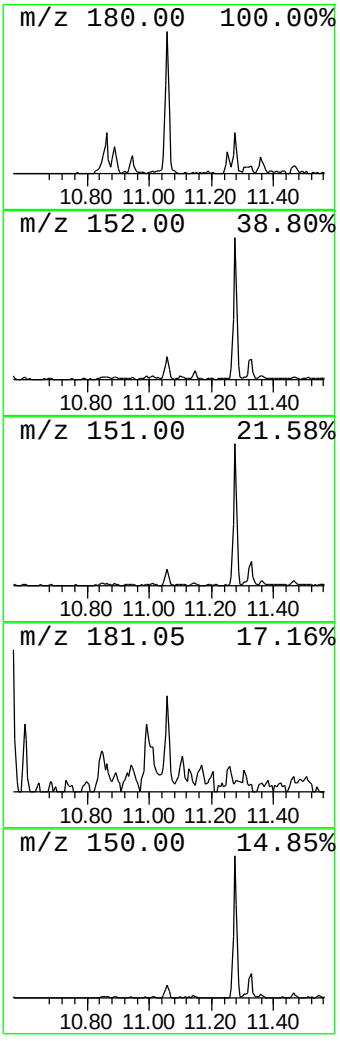
****

Peak Number 3 9H-Fluoren-9-one Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.06	2.02 ng	84892	Phenanthrene-d10	11.25

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	62
3	2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	59
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	53
5	1,1'-Biphenyl, 4-ethenyl-	180	C14H12	002350-89-2	50





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Instrument : BNA_F
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TIC Library : C:\DATABASE\NIST11.L
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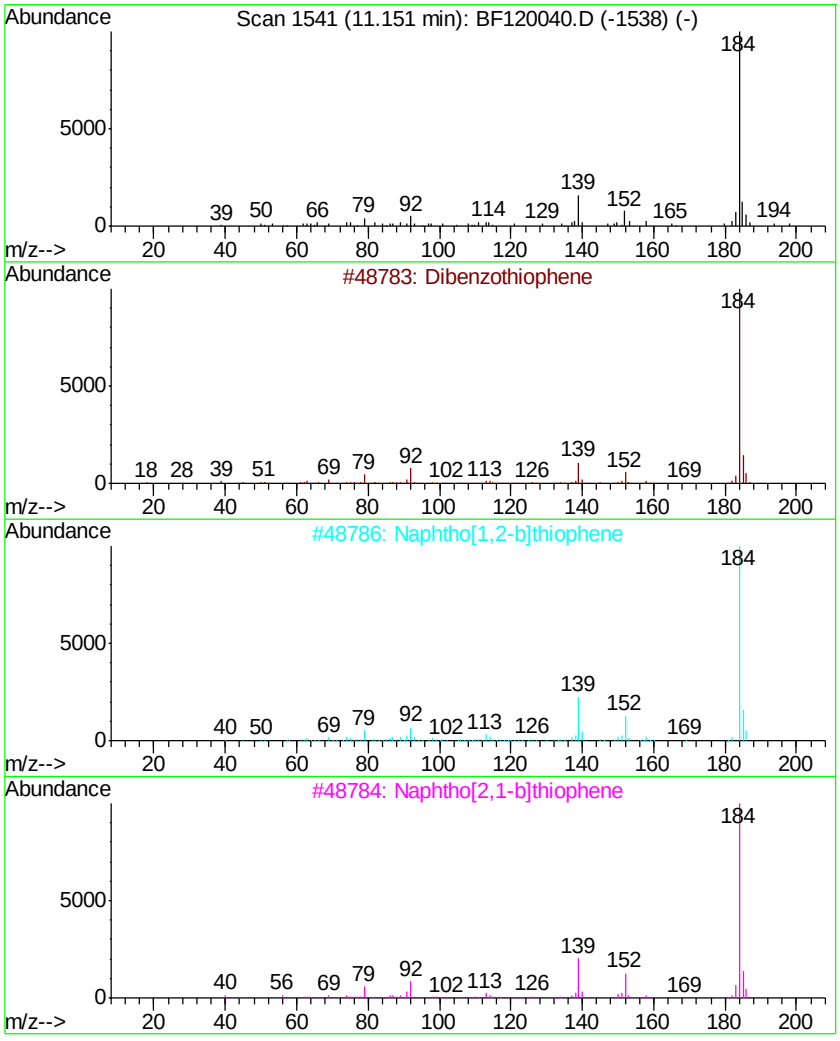
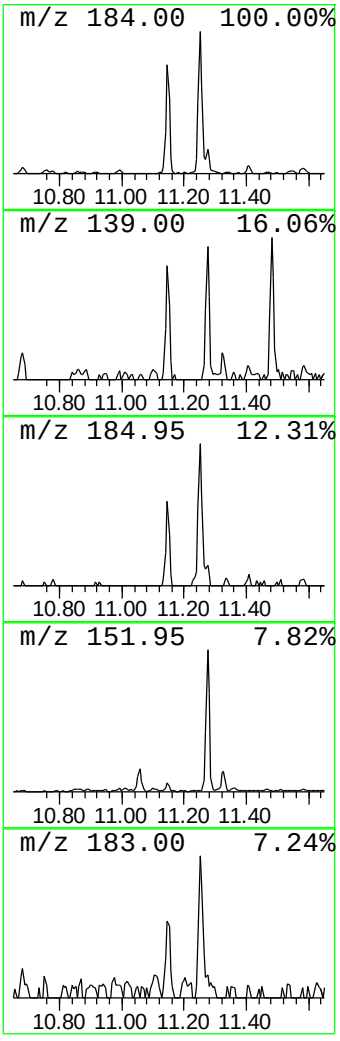
Peak Number 4 Dibenzothiophene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.15	2.42 ng	101367	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	94
2	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
3	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	94
4	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	72
5	Naphthalene, 2-ethenyl-6-methoxy-	184	C13H12O	063444-51-9	72





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Sample : L2230-63 5X
Misc :
ALS Vial : 48 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-31-39

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040820.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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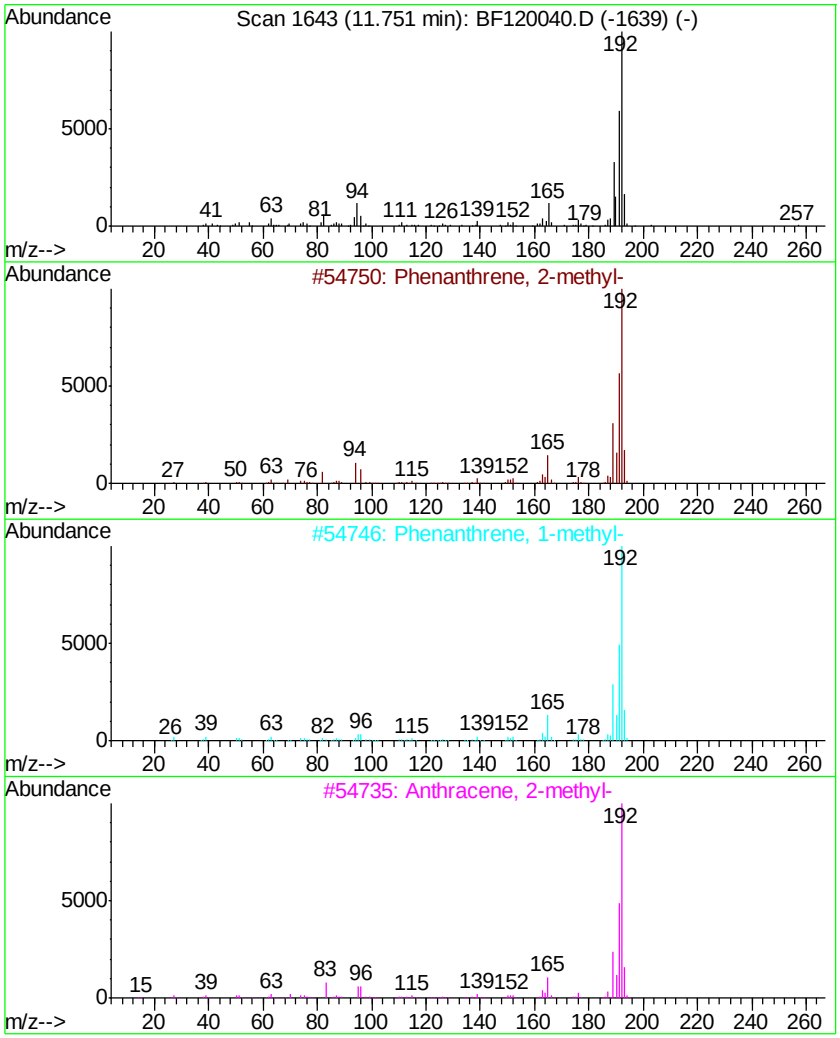
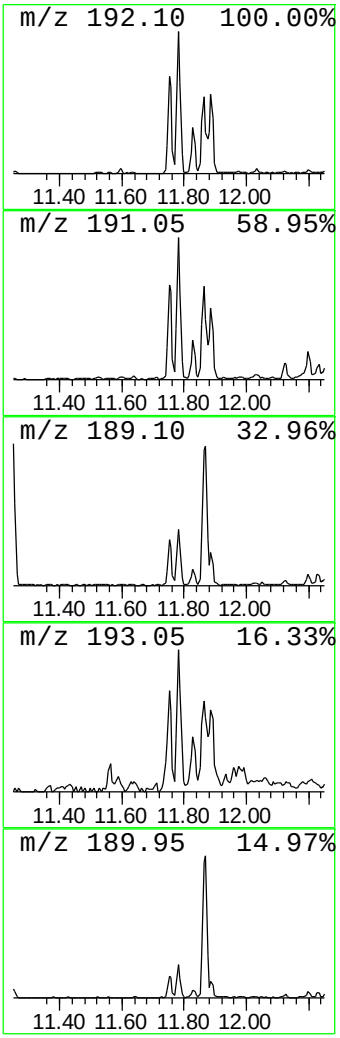
Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.75	4.38 ng	183892	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041620\
Data File : BF120040.D
Acq On : 16 Apr 2020 17:04
Operator : MA/SJ
Sample : L2230-63 5X
Misc :
ALS Vial : 48 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-31-39

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

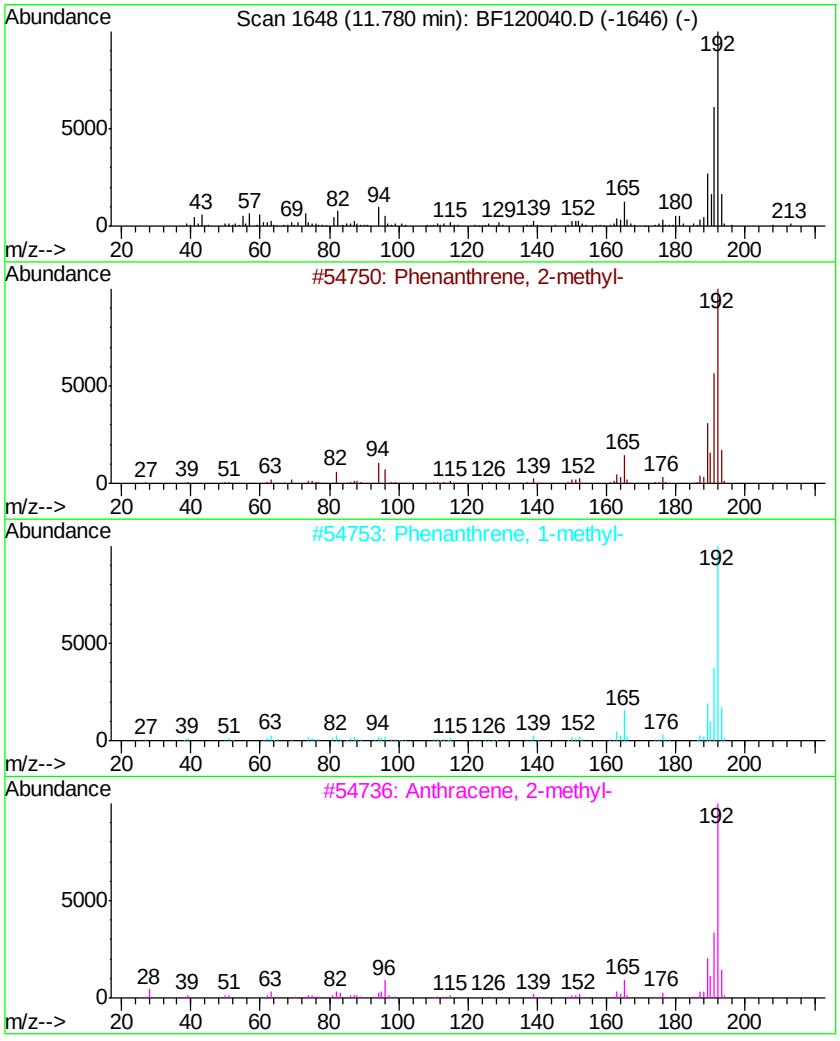
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

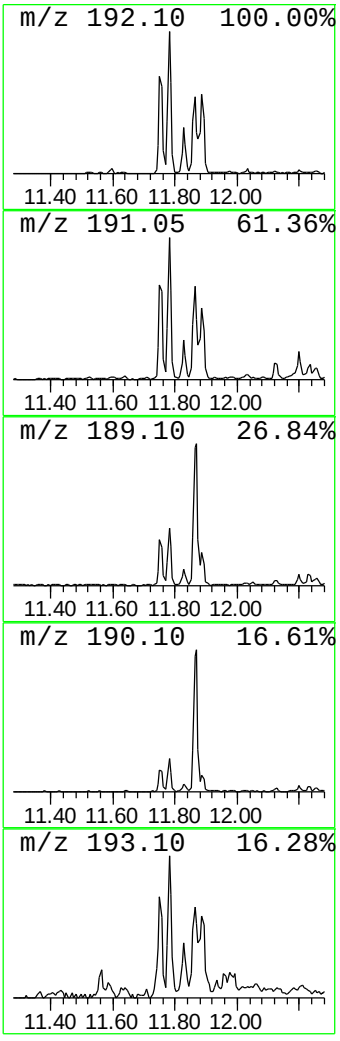
****

Peak Number 6 Phenanthrene, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.78	7.53 ng	315614	Phenanthrene-d10	11.25

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	93
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	92
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90





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Data File : BF120040.D
Acq On : 16 Apr 2020 17:04
Operator : MA/SJ
Sample : L2230-63 5X
Misc :
ALS Vial : 48 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-31-39

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040820.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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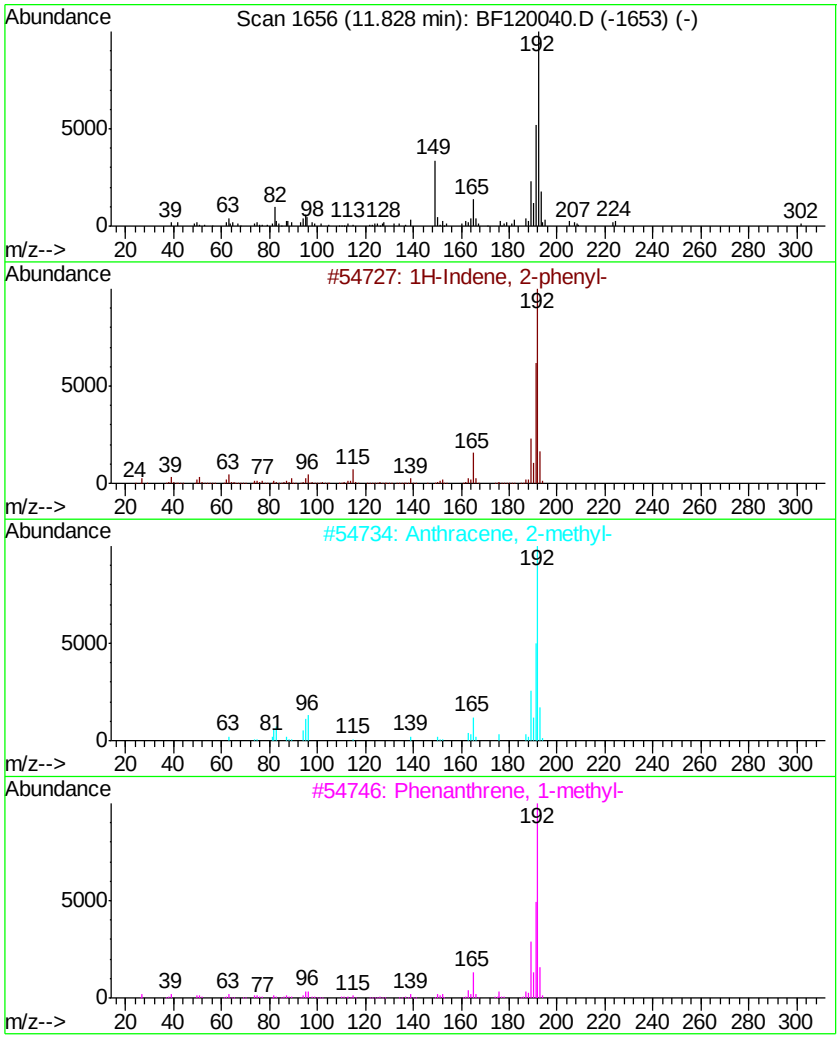
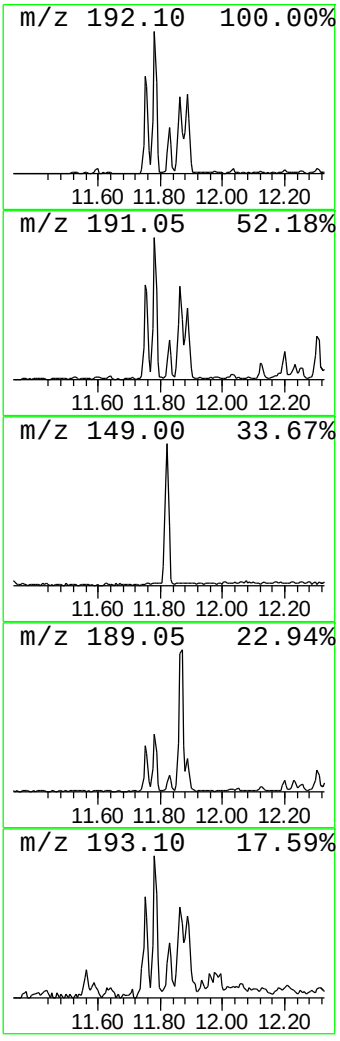
Peak Number 7 1H-Indene, 2-phenyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.83	2.75 ng	115540	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	89
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	89
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	89
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	89





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Acq On : 16 Apr 2020 17:04
Operator : MA/SJ
Sample : L2230-63 5X
Misc :
ALS Vial : 48 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-31-39

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040820.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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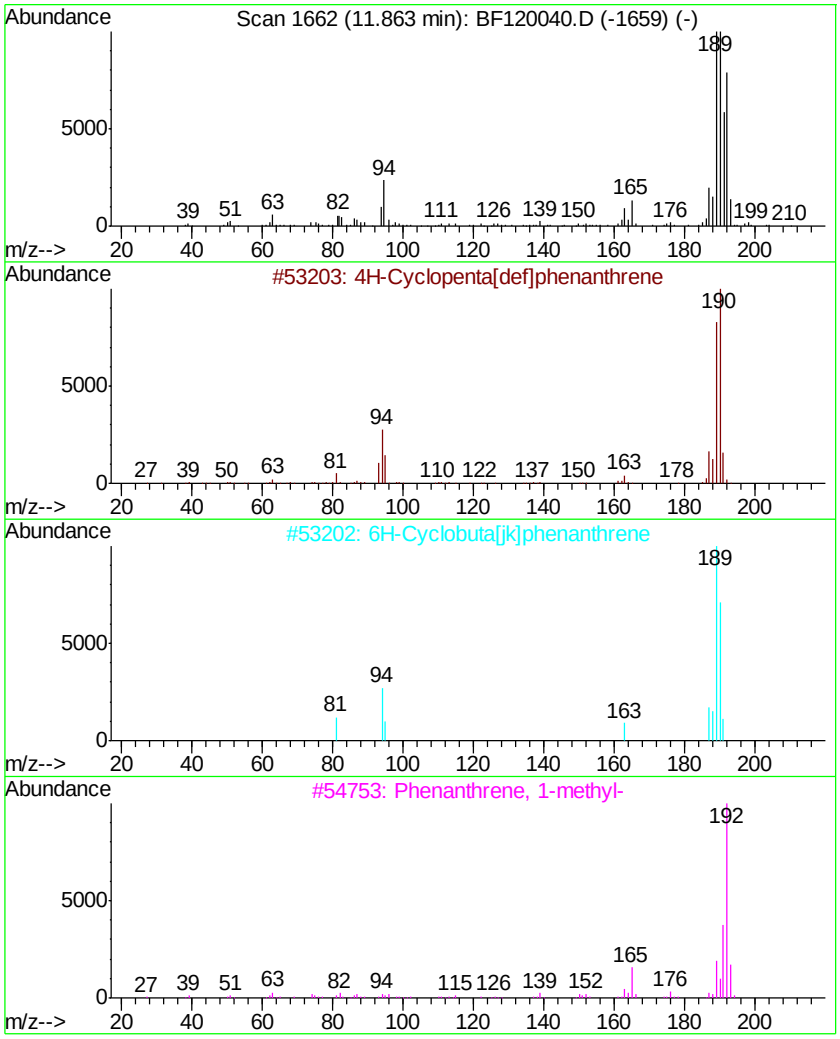
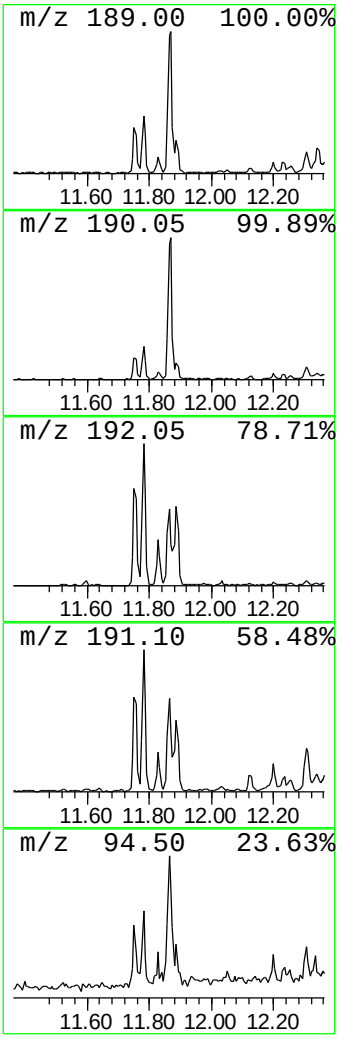
Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.86	7.92 ng	332141	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	58
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	38
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	38
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	38





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Acq On : 16 Apr 2020 17:04
Operator : MA/SJ
Sample : L2230-63 5X
Misc :
ALS Vial : 48 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-31-39

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040820.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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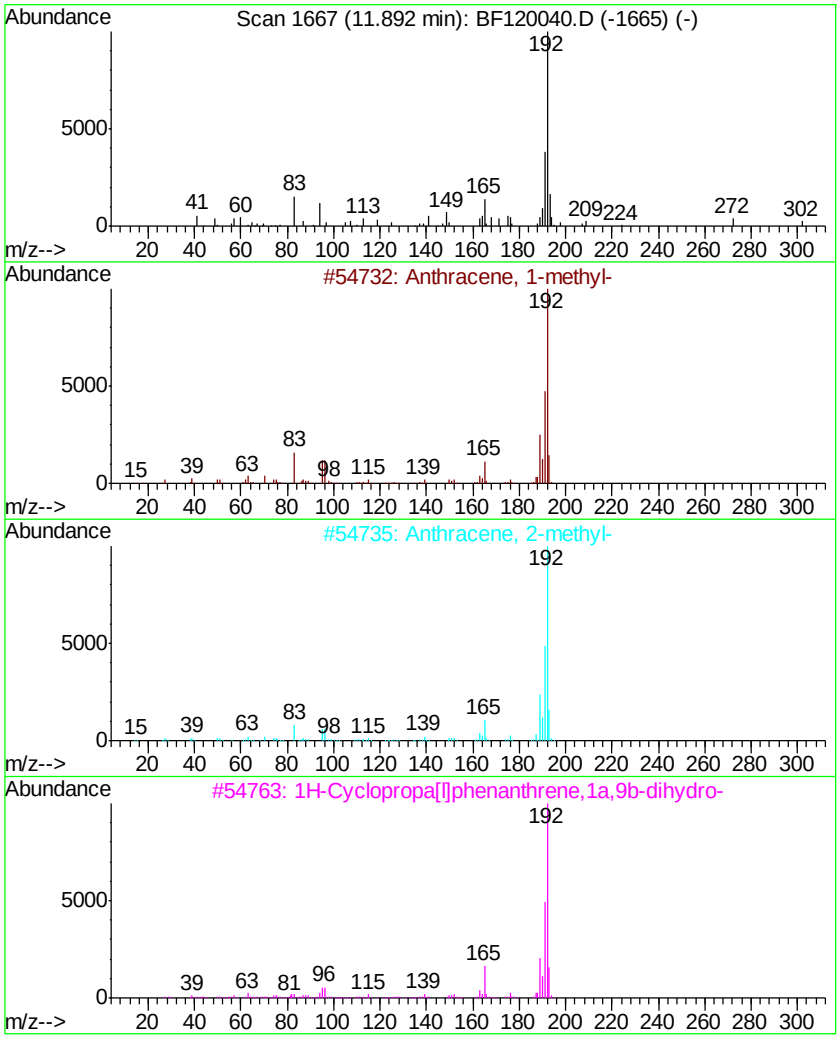
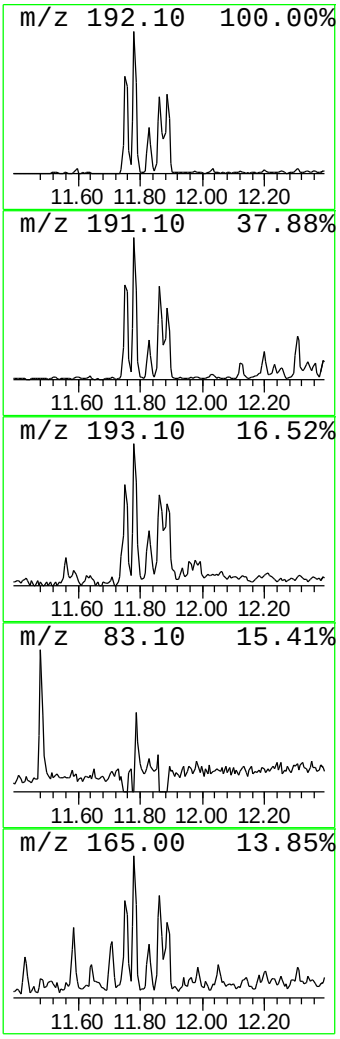
Peak Number 9 Anthracene, 1-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	2.41 ng	100903	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	89
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87





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Acq On : 16 Apr 2020 17:04
Operator : MA/SJ
Sample : L2230-63 5X
Misc :
ALS Vial : 48 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-31-39

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040820.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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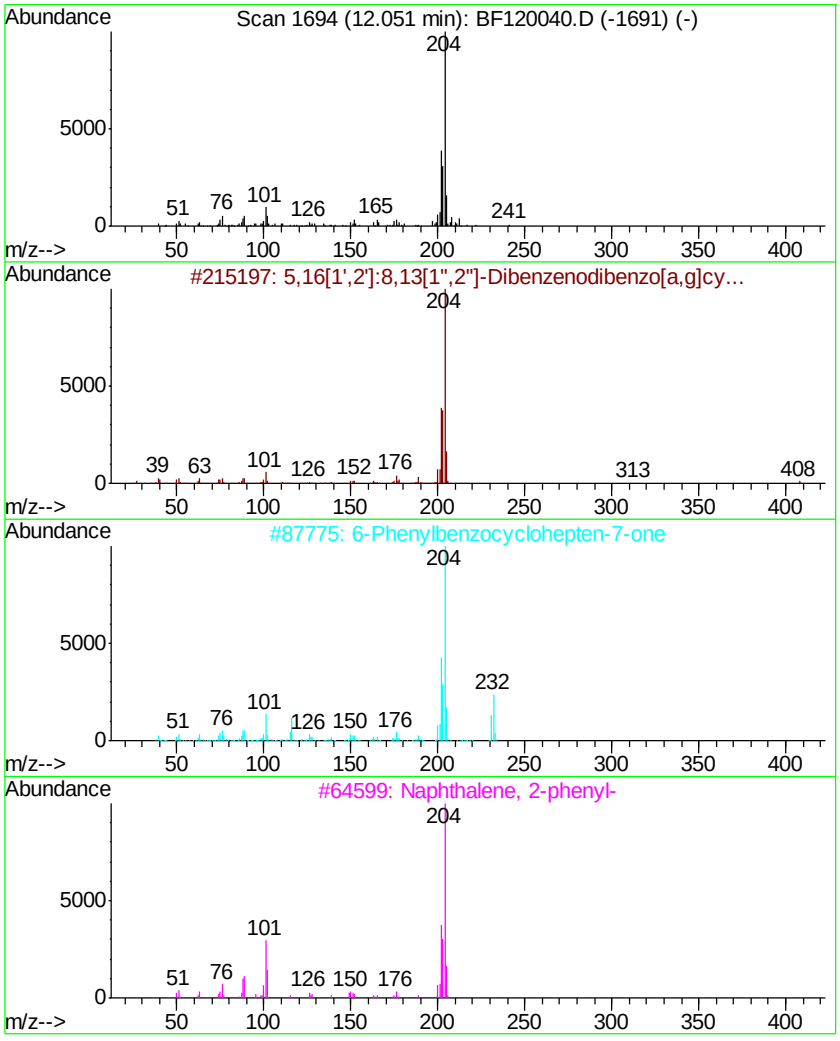
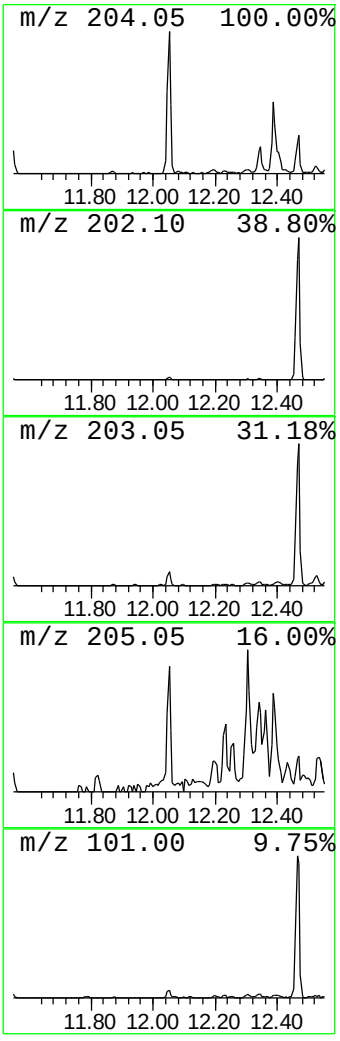
Peak Number 10 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	2.90 ng	121753	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
2	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	86
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	58
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	49





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Operator : MA/SJ
Sample : L2230-63 5X
Misc :
ALS Vial : 48 Sample Multiplier: 1

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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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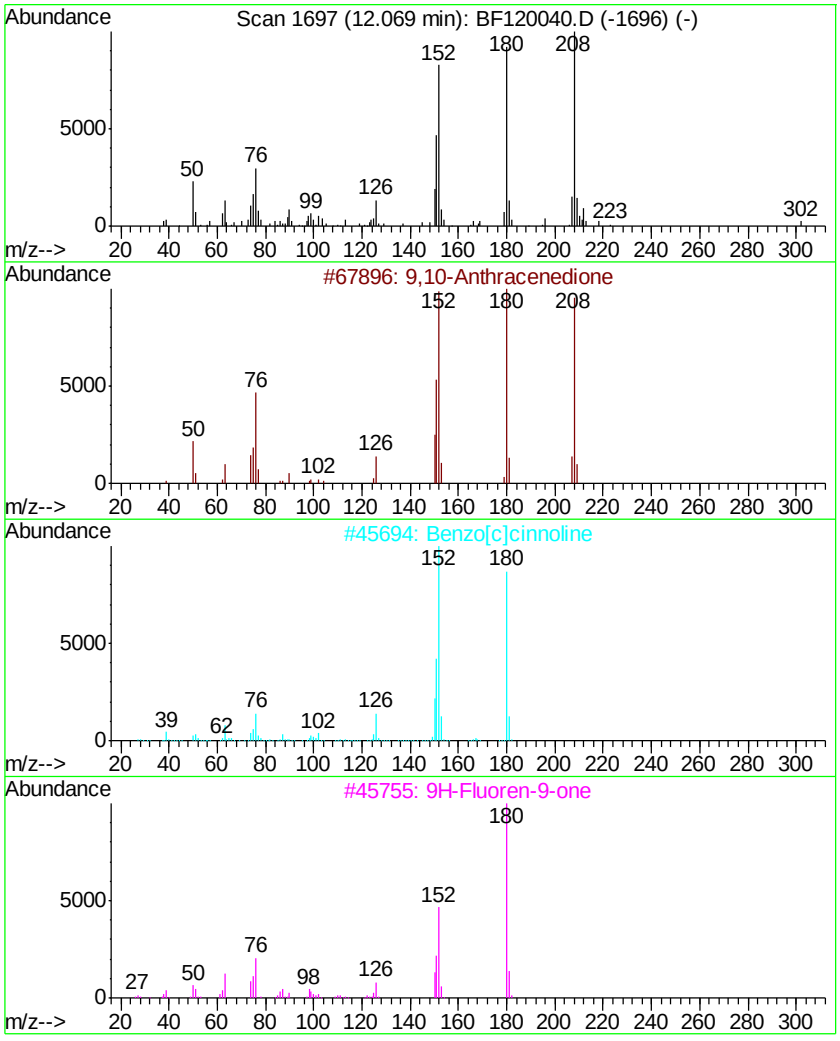
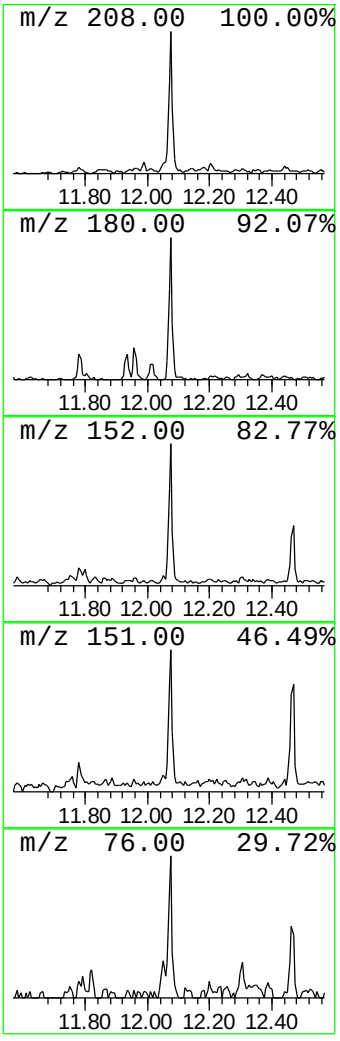
Peak Number 11 9,10-Anthracenedione Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.07	3.34 ng	140067	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	83
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	78
4	1,4-Anthracenedione	208	C14H8O2	000635-12-1	64
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	53





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Sample : L2230-63 5X
Misc :
ALS Vial : 48 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-31-39

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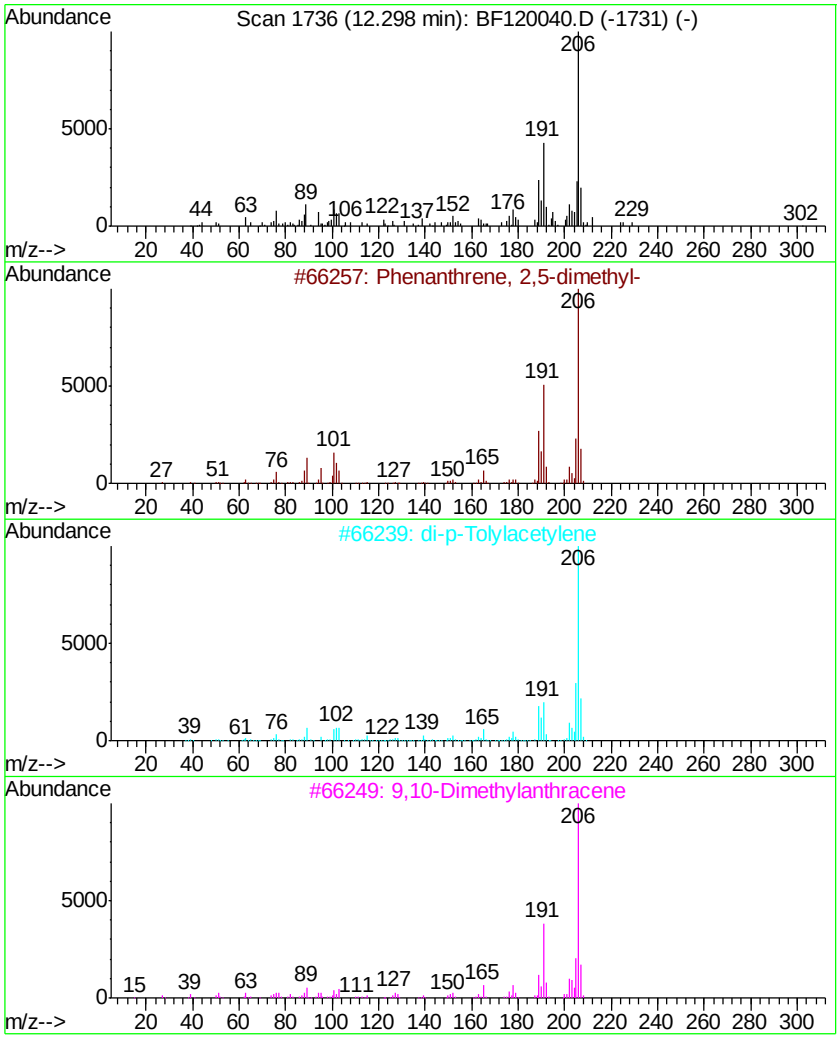
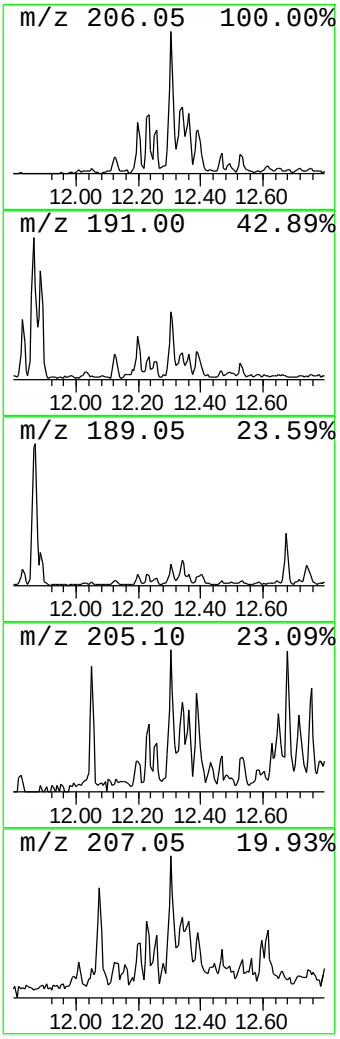
Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.30	4.20 ng	176245	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	98
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	96
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90





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Acq On : 16 Apr 2020 17:04
Operator : MA/SJ
Sample : L2230-63 5X
Misc :
ALS Vial : 48 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-31-39

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040820.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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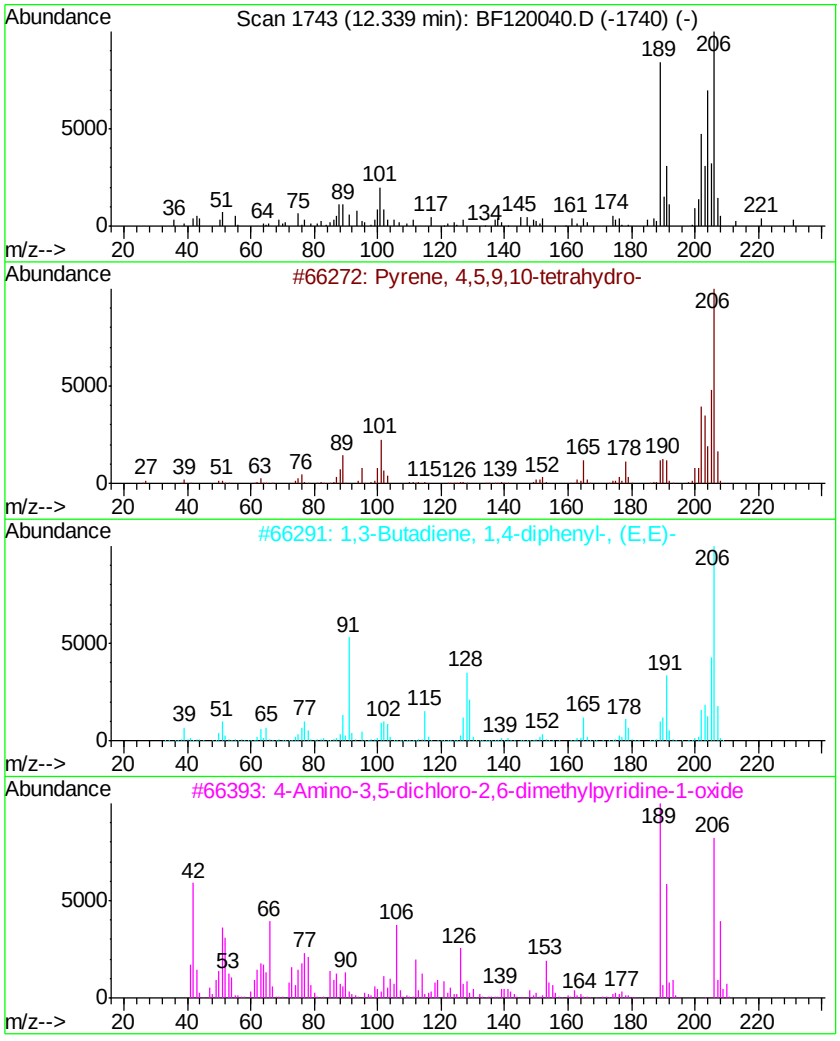
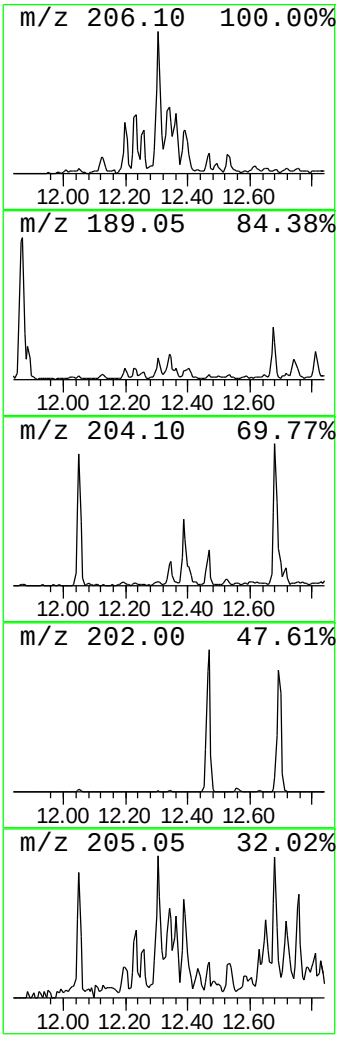
Peak Number 13 unknown12.34 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.34	2.32 ng	97177	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	42
2	1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	41
3	4-Amino-3,5-dichloro-2,6-dimethy...	206	C7H8Cl2N2O	1000227-19-9	38
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	30
5	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	30





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Sample : L2230-63 5X
Misc :
ALS Vial : 48 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-31-39

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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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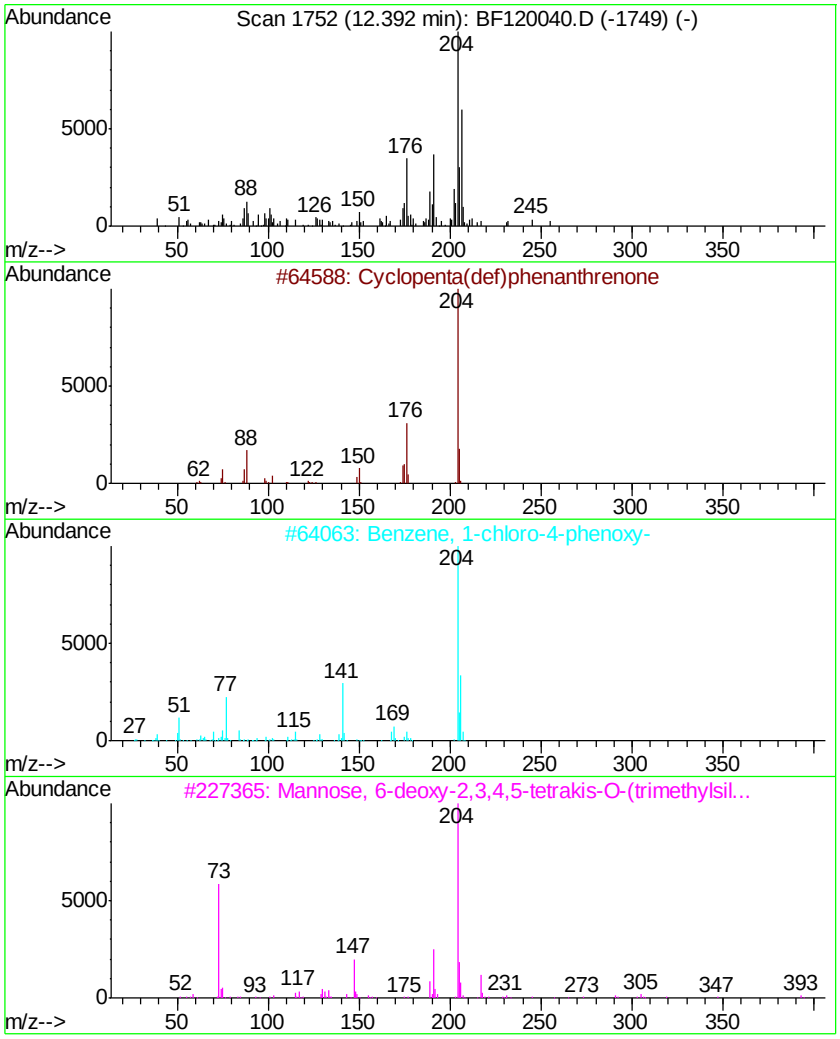
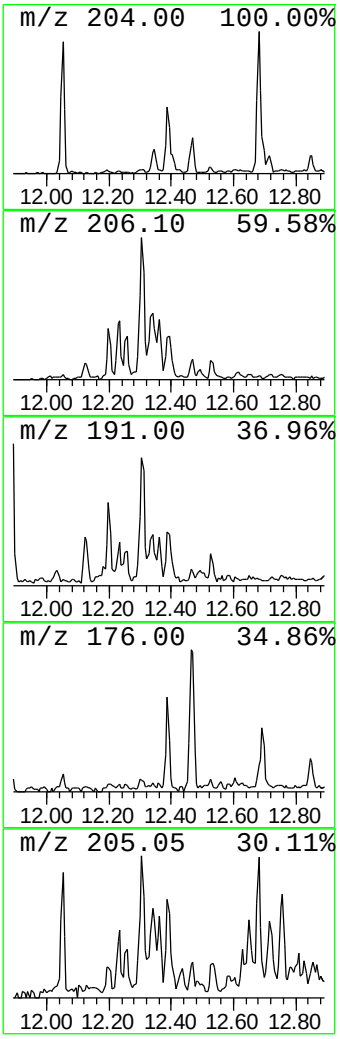
Peak Number 14 Cyclopenta(def)phenanthrenone Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	2.74 ng	114968	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	55
2	Benzene, 1-chloro-4-phenoxy-	204	C12H9ClO	007005-72-3	46
3	Mannose, 6-deoxy-2,3,4,5-tetraki...	452	C18H44O5Si4	019127-15-2	43
4	Acetamide, 2-(3,4-dihydro-1-isoq...	332	C17H14F2N2OS	1000270-76-1	38
5	2-Chloro-4-phenylphenol	204	C12H9ClO	000092-04-6	38





Library Search Compound Report

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Data File : BF120040.D
Acq On : 16 Apr 2020 17:04
Operator : MA/SJ
Sample : L2230-63 5X
Misc :
ALS Vial : 48 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-31-39

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040820.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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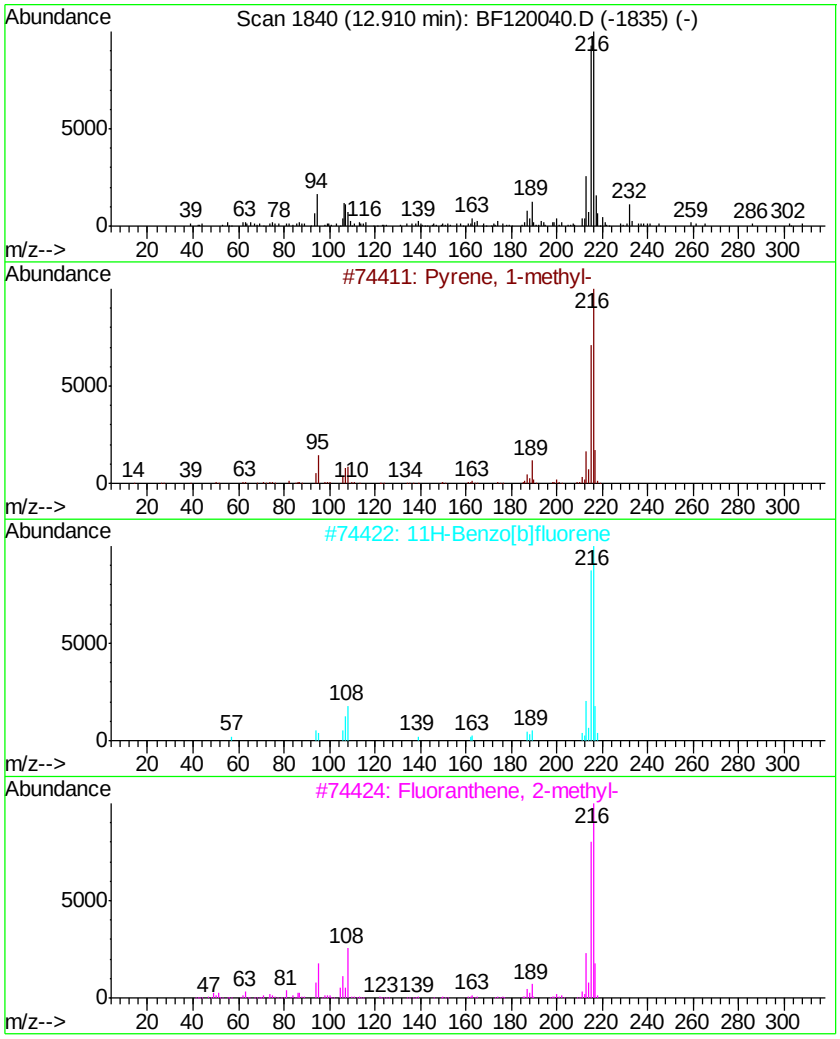
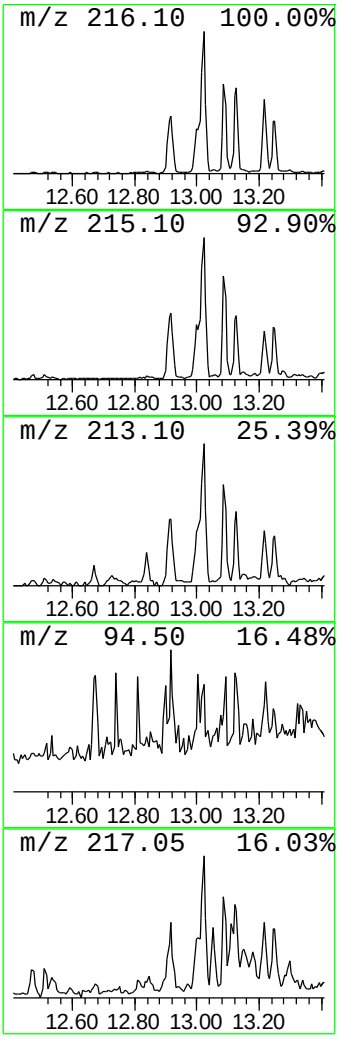
Peak Number 15 Pyrene, 1-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.91	2.39 ng	209910	Chrysene-d12	13.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	83
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	74





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Sample : L2230-63 5X
Misc :
ALS Vial : 48 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-31-39

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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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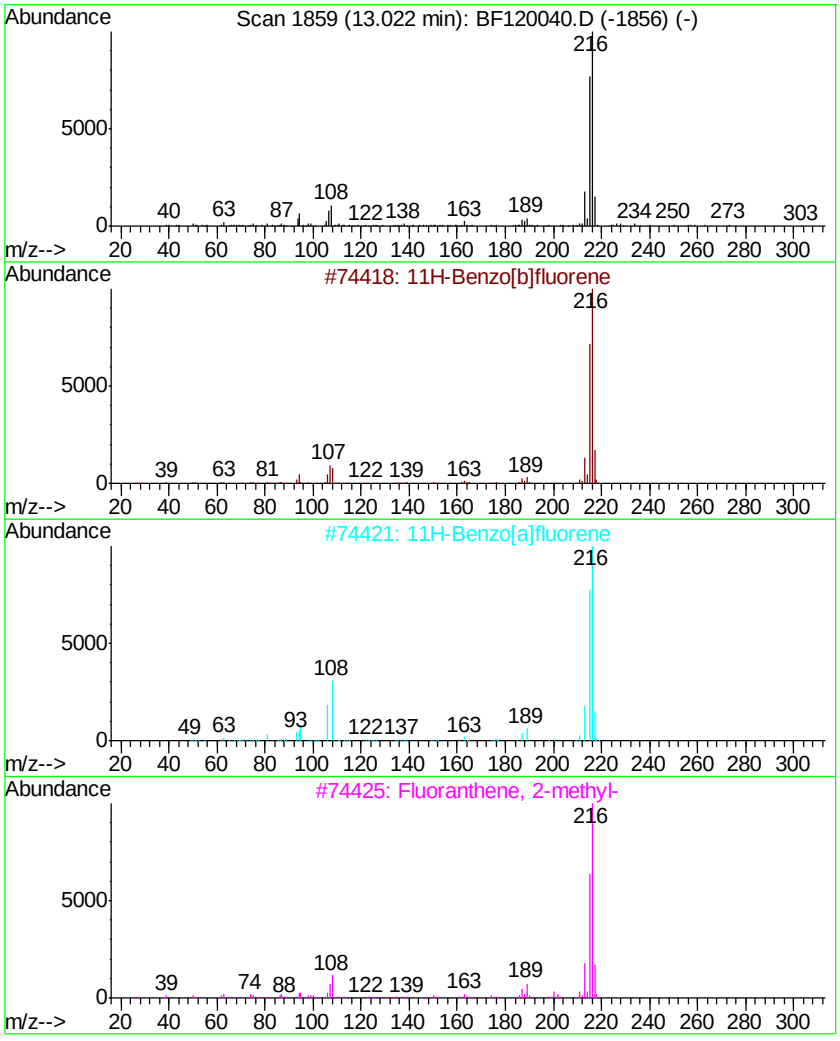
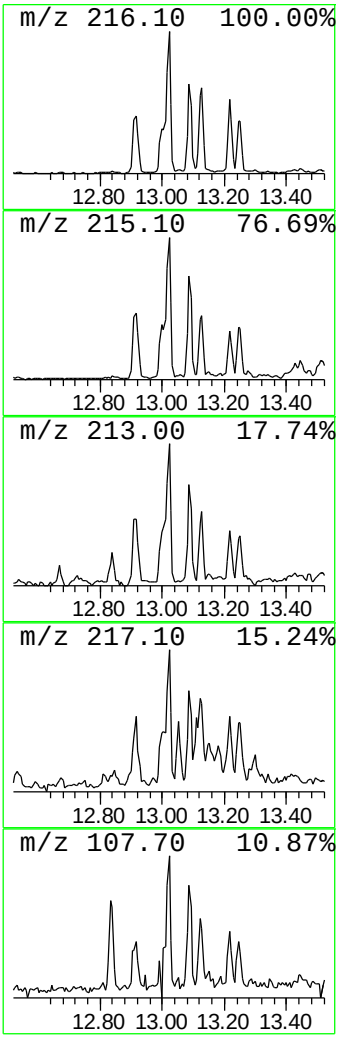
Peak Number 16 11H-Benzo[b]fluorene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.02	2.59 ng	227806	Chrysene-d12	13.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	83
4	1,3,5-Triazine-2,4,6-triamine, N...	216	C10H12N6	046731-79-7	72
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	72





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Sample : L2230-63 5X
Misc :
ALS Vial : 48 Sample Multiplier: 1

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ClientSampleId : TP-25-31-39

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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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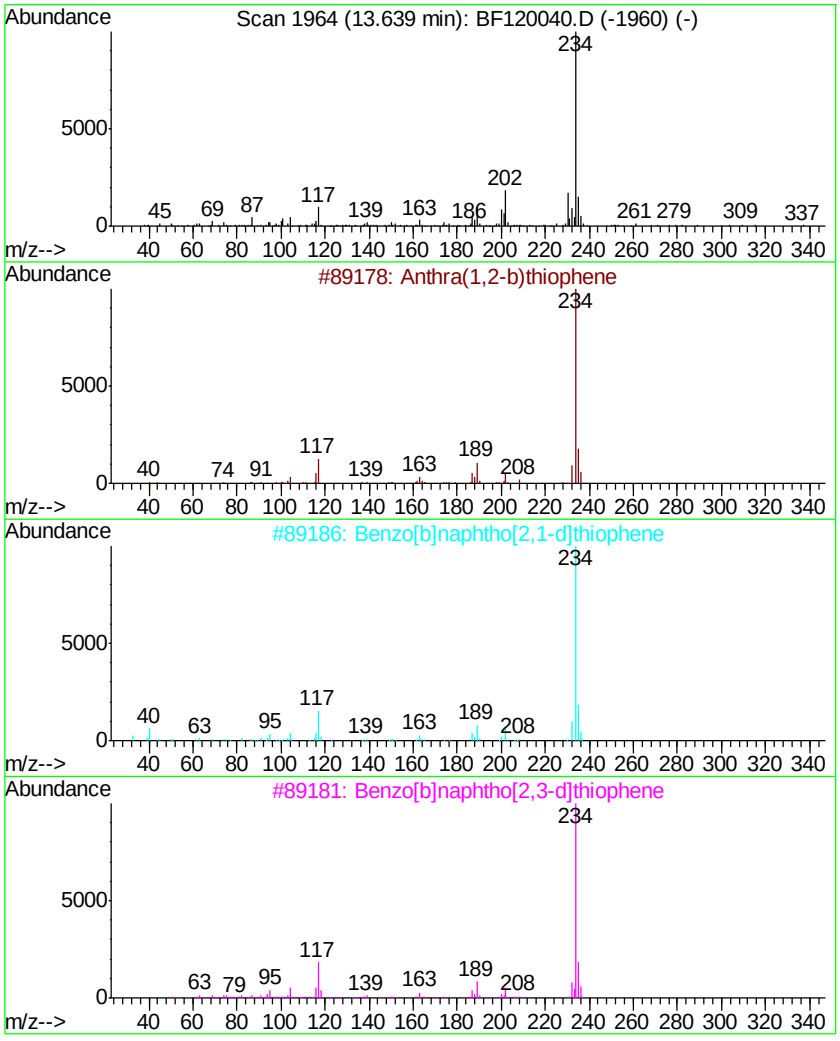
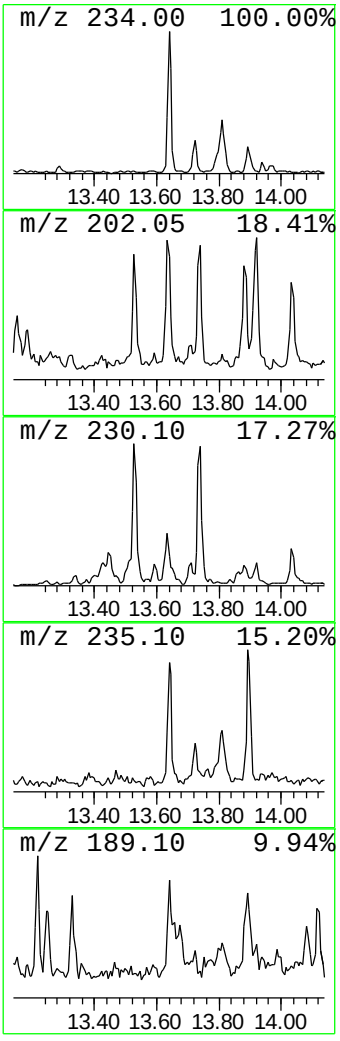
Peak Number 17 Anthra(1,2-b)thiophene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.64	2.19 ng	192590	Chrysene-d12	13.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	91
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	91
3	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	90
4	Anthra(2,3-b)thiophene	234	C16H10S	022108-55-0	87
5	Quinoxalino[2,3-b]quinoxaline, 5...	234	C14H10N4	000531-46-4	50





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041620\
Data File : BF120040.D
Acq On : 16 Apr 2020 17:04
Operator : MA/SJ
Sample : L2230-63 5X
Misc :
ALS Vial : 48 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-31-39

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040820.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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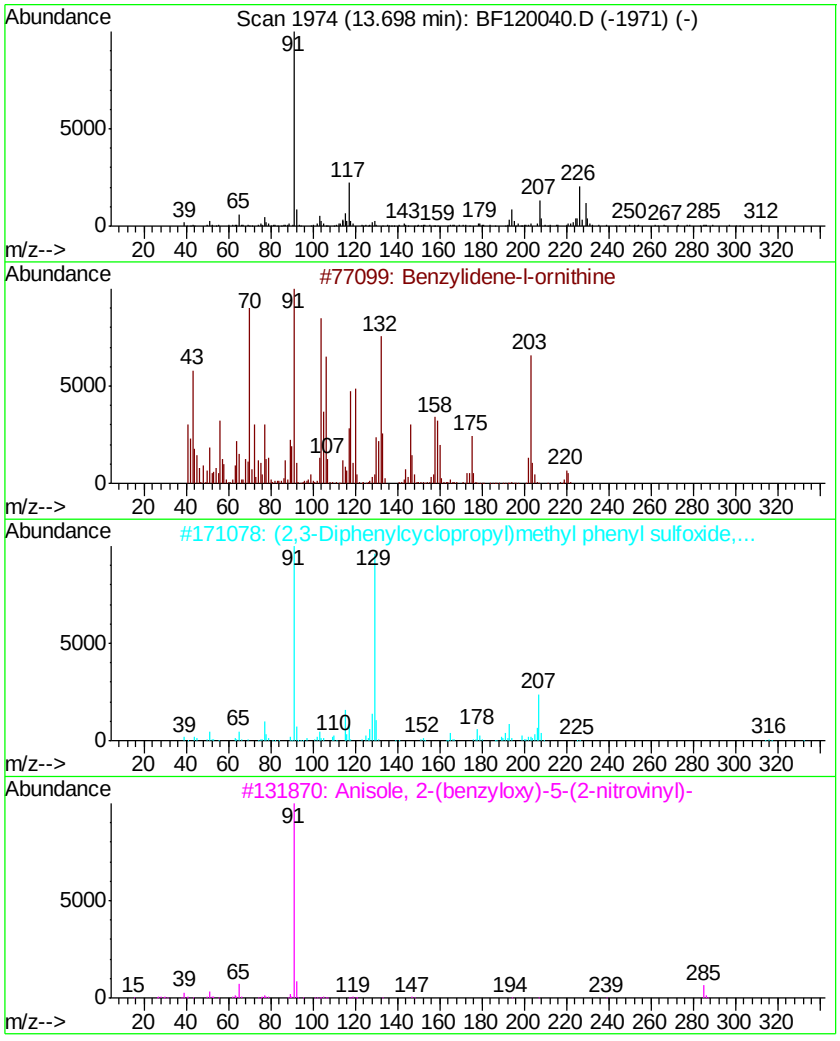
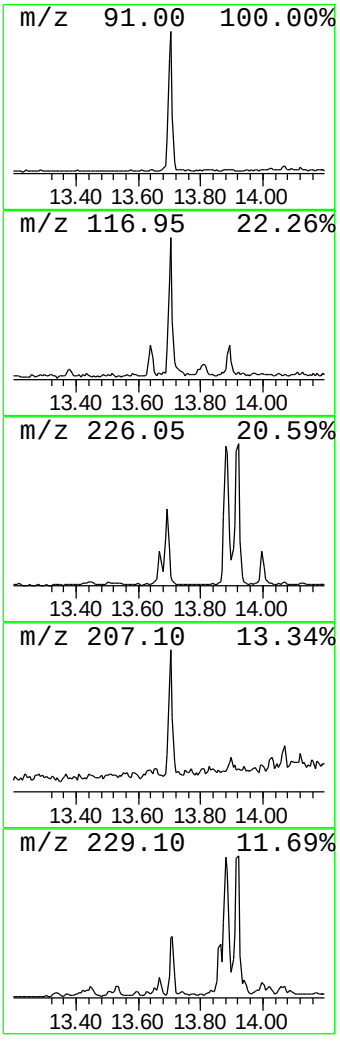
Peak Number 18 unknown13.70 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.70	4.21 ng	369683	Chrysene-d12	13.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzylidene-l-ornithine	220	C12H16N2O2	025693-00-9	16
2	(2,3-Diphenylcyclopropyl)methyl ...	332	C22H20OS	131758-71-9	10
3	Anisole, 2-(benzyloxy)-5-(2-nitr...	285	C16H15NO4	001860-56-6	10
4	Benzene, (5-iodopentyl)-	274	C11H15I	099858-37-4	10
5	Benzyl phenyl sulfone	232	C13H12O2S	003112-88-7	10





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Data File : BF120040.D
Acq On : 16 Apr 2020 17:04
Operator : MA/SJ
Sample : L2230-63 5X
Misc :
ALS Vial : 48 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-31-39

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040820.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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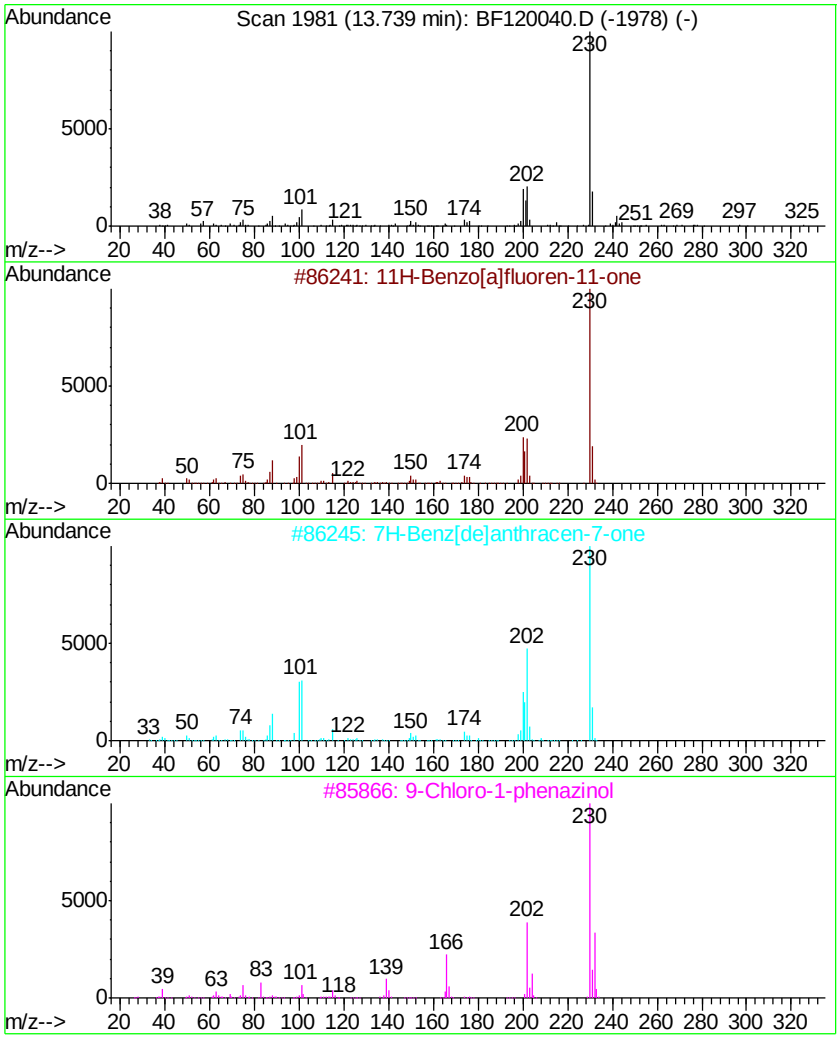
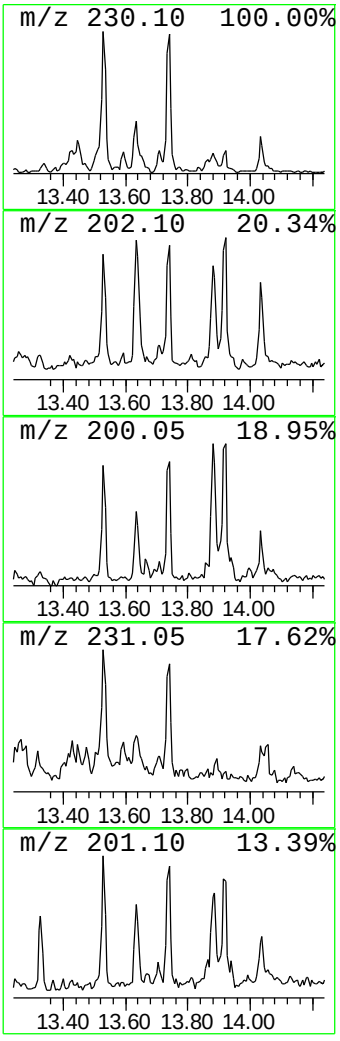
Peak Number 19 11H-Benzo[a]fluoren-11-one Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.74	2.16 ng	189920	Chrysene-d12	13.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	97
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
3	9-Chloro-1-phenazinol	230	C12H7ClN2O	091268-03-0	59
4	o-Terphenyl	230	C18H14	000084-15-1	53
5	4-Methoxy-2-(p-methoxyphenyl)-6-...	230	C13H14N2O2	063896-93-5	53





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041620\
Data File : BF120040.D
Acq On : 16 Apr 2020 17:04
Operator : MA/SJ
Sample : L2230-63 5X
Misc :
ALS Vial : 48 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-31-39

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040820.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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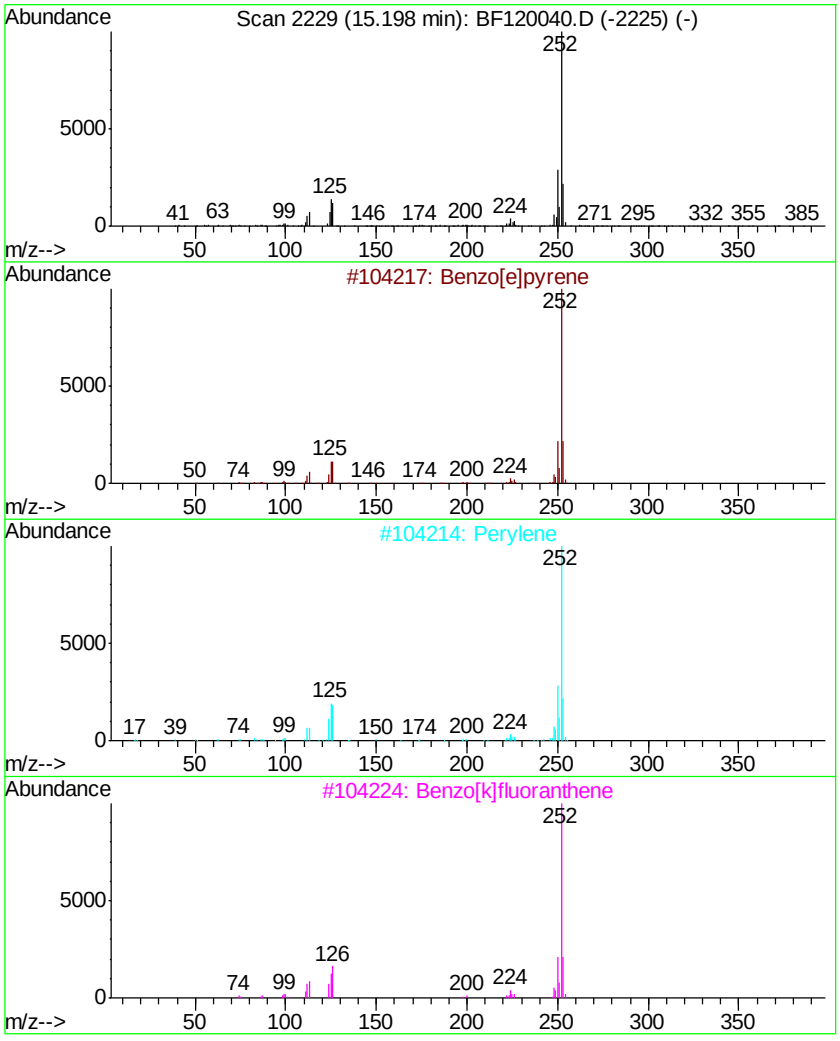
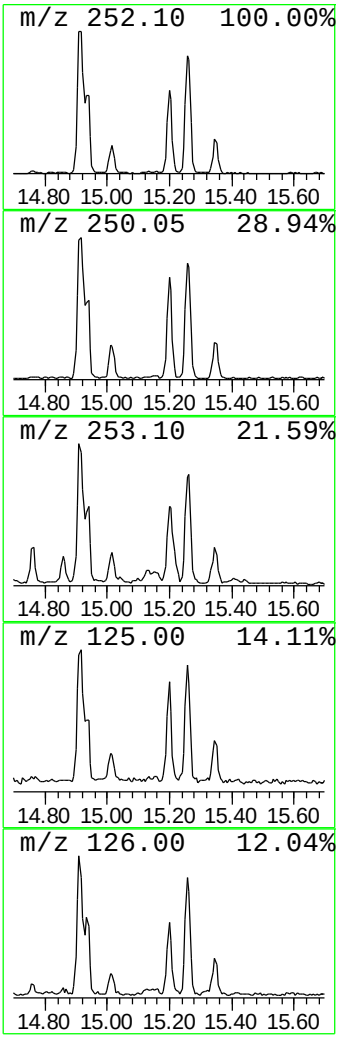
Peak Number 20 Benzo[e]pyrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.20	15.20 ng	467733	Perylene-d12	15.32

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	97
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	97
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	95
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041620\
Data File : BF120040.D
Acq On : 16 Apr 2020 17:04
Operator : MA/SJ
Sample : L2230-63 5X
Misc :
ALS Vial : 48 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-25-31-39

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040820.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
3-Benzyl-5-chloro...	10.89	2.3	ng	98243	4	11.25	838798	20.0
9H-Fluoren-9-one	11.06	2.0	ng	84892	4	11.25	838798	20.0
Dibenzothiophene	11.15	2.4	ng	101367	4	11.25	838798	20.0
Phenanthrene, 2-m...	11.75	4.4	ng	183892	4	11.25	838798	20.0
Phenanthrene, 1-m...	11.78	7.5	ng	315614	4	11.25	838798	20.0
1H-Indene, 2-phenyl-	11.83	2.8	ng	115540	4	11.25	838798	20.0
4H-Cyclopenta[def...	11.86	7.9	ng	332141	4	11.25	838798	20.0
Anthracene, 1-met...	11.89	2.4	ng	100903	4	11.25	838798	20.0
5,16[1',2']:8,13[...	12.05	2.9	ng	121753	4	11.25	838798	20.0
9,10-Anthracenedione	12.07	3.3	ng	140067	4	11.25	838798	20.0
Phenanthrene, 2,5...	12.30	4.2	ng	176245	4	11.25	838798	20.0
unknown12.34	12.34	2.3	ng	97177	4	11.25	838798	20.0
Cyclopenta(def)ph...	12.39	2.7	ng	114968	4	11.25	838798	20.0
Pyrene, 1-methyl-	12.91	2.4	ng	209910	5	13.89	1757180	20.0
11H-Benzo[b]fluorene	13.02	2.6	ng	227806	5	13.89	1757180	20.0
Anthra(1,2-b)thio...	13.64	2.2	ng	192590	5	13.89	1757180	20.0
unknown13.70	13.70	4.2	ng	369683	5	13.89	1757180	20.0
11H-Benzo[a]fluor...	13.74	2.2	ng	189920	5	13.89	1757180	20.0
Benzo[e]pyrene	15.20	15.2	ng	467733	6	15.32	615525	20.0