LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117612.D
Acq On : 30 Oct 2019 1:42
Operator : JU
Sample : K5576-19 5X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CSA-2-1-8

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-BF101819.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	5.369	556	558	567	rBV	41997	79762	4.94%	0.527%
2	6.404	731	734	749	rBV2	53690	119303	7.39%	0.789%
3	6.510	749	752	763	rVB	95156	137566	8.52%	0.910%
4	6.728	786	789	801	rBV	225139	220536	13.66%	1.458%
5	6.887	812	816	824	rBV	93044	103568	6.41%	0.685%
6	7.304	884	887	908	rBV	32348	68638	4.25%	0.454%
7	8.010	1003	1007	1010	rBV	286630	279488	17.31%	1.848%
8	8.034	1010	1011	1031	rVB	80787	87265	5.40%	0.577%
9	8.728	1126	1129	1141	rBV	43945	51267	3.17%	0.339%
10	8.822	1141	1145	1157	rVB	54616	59237	3.67%	0.392%
11	9.081	1186	1189	1201	rBV	131657	135422	8.39%	0.895%
12	9.351	1231	1235	1243	rVB	24666	35677	2.21%	0.236%
13	9.422	1243	1247	1250	rBV	55384	59182	3.67%	0.391%
14	9.451	1250	1252	1255	rVB	30692	24880	1.54%	0.165%
15	9.539	1264	1267	1275	rBB	24414	32694	2.02%	0.216%
16	9.622	1279	1281	1290	rVB	33889	34409	2.13%	0.228%
17	9.763	1300	1305	1308	rBV	368598	329691	20.42%	2.180%
18	9.792	1308	1310	1318	rVV	242491	217443	13.47%	1.438%
19	9.916	1328	1331	1336	rVV2	25839	22499	1.39%	0.149%
20	9.969	1336	1340	1344	rVV	111142	112561	6.97%	0.744%
21	10.010	1344	1347	1355	rVB	22179	27364	1.69%	0.181%
22	10.163	1370	1373	1376	rBV3	28218	32824	2.03%	0.217%
23	10.310	1394	1398	1404	rBV	173454	175315	10.86%	1.159%
24	10.398	1411	1413	1415	rVB	30025	23219	1.44%	0.154%
25	10.469	1422	1425	1430	rVB	50409	49888	3.09%	0.330%
26	10.563	1436	1441	1446	rBV2	79711	118675	7.35%	0.785%
27	10.863	1484	1492	1494	rBV3	41019	58618	3.63%	0.388%
28	10.986	1508	1513	1515	rBV2	27907	34918	2.16%	0.231%
29	11.010	1515	1517	1523	rVV2	34122	39028	2.42%	0.258%
30	11.063	1523	1526	1530	rVV	77345	81253	5.03%	0.537%
31	11.104	1530	1533	1537	rVV3	42885	55595	3.44%	0.368%
32	11.145	1537	1540	1548	rVB	96059	91842	5.69%	0.607%
33	11.251	1554	1558	1560	rBV	306415	319080	19.76%	2.110%
34	11.280	1560	1563	1566	rVV	1799321	1614717	100.00%	10.676%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117612.D
Acq On : 30 Oct 2019 1:42
Operator : JU
Sample : K5576-19 5X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CSA-2-1-8

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-BF101819.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.327	1566	1571	1575	rVV	446840	421615	26.11%	2.788%
36	11.369	1576	1578	1583	rVB3	17586	25635	1.59%	0.169%
37	11.486	1594	1598	1604	rBV2	99165	133070	8.24%	0.880%
38	11.539	1604	1607	1609	rVB	43678	36749	2.28%	0.243%
39	11.580	1609	1614	1616	rBV3	19009	25494	1.58%	0.169%
40	11.751	1640	1643	1646	rBV	227122	195340	12.10%	1.292%
41	11.780	1646	1648	1653	rVV	272672	234785	14.54%	1.552%
42	11.827	1653	1656	1659	rVV	89652	83930	5.20%	0.555%
43	11.863	1659	1662	1665	rVV	294079	323773	20.05%	2.141%
44	11.886	1665	1666	1670	rVB	151460	101236	6.27%	0.669%
45	12.045	1690	1693	1698	rBV	144716	125641	7.78%	0.831%
46	12.086	1698	1700	1704	rVV	92626	92432	5.72%	0.611%
47	12.192	1713	1718	1722	rBV	55141	65125	4.03%	0.431%
48	12.227	1722	1724	1726	rVV	41158	30175	1.87%	0.200%
49	12.251	1726	1728	1732	rVB2	30275	30081	1.86%	0.199%
50	12.304	1733	1737	1739	rBV	127410	121356	7.52%	0.802%
51	12.339	1739	1743	1745	rVV3	57217	81901	5.07%	0.542%
52	12.363	1745	1747	1749	rVV	36718	30128	1.87%	0.199%
53	12.404	1749	1754	1757	rVV2	75538	98146	6.08%	0.649%
54	12.474	1761	1766	1769	rBV	1476026	1371636	84.95%	9.069%
55	12.533	1773	1776	1779	rVB2	41168	41512	2.57%	0.274%
56	12.616	1787	1790	1793	rBV	83125	84391	5.23%	0.558%
57	12.704	1798	1805	1808	rBV	1244597	1447125	89.62%	9.568%
58	12.745	1809	1812	1817	rVB2	62358	81586	5.05%	0.539%
59	12.827	1820	1826	1829	rBV2	166776	190522	11.80%	1.260%
60	12.863	1829	1832	1836	rVB	51894	60310	3.74%	0.399%
61	12.921	1836	1842	1846	rBV2	79965	145694	9.02%	0.963%
62	13.021	1857	1859	1863	rVB	119795	122106	7.56%	0.807%
63	13.092	1868	1871	1873	rVV	59278	67961	4.21%	0.449%
64	13.127	1874	1877	1881	rVV2	121426	154767	9.58%	1.023%
65	13.186	1884	1887	1890	rVB3	26521	29616	1.83%	0.196%
66	13.221	1890	1893	1896	rBV	72581	70877	4.39%	0.469%
67	13.251	1896	1898	1903	rVV	76061	81087	5.02%	0.536%
68	13.298	1904	1906	1909	rVV	39788	30155	1.87%	0.199%
69	13.345	1911	1914	1917	rVB3	21275	25584	1.58%	0.169%
70	13.398	1920	1923	1926	rBV4	23593	24292	1.50%	0.161%
71	13.545	1944	1948	1954	rVB	98325	110667	6.85%	0.732%

LSC Area Percent Report

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Acq On : 30 Oct 2019 1:42
Operator : JU
Sample : K5576-19 5X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CSA-2-1-8

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-BF101819.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.651	1960	1966	1967	rBV2	95451	110123	6.82%	0.728%
73	13.668	1967	1969	1972	rVB	84151	70003	4.34%	0.463%
74	13.698	1972	1974	1976	rBV	60120	54298	3.36%	0.359%
75	13.757	1981	1984	1989	rVB	97255	105614	6.54%	0.698%
76	13.815	1989	1994	1996	rBV2	24759	37873	2.35%	0.250%
77	13.892	1999	2007	2010	rBV2	561980	825241	51.11%	5.456%
78	13.921	2010	2012	2016	rVB	399275	391235	24.23%	2.587%
79	14.004	2023	2026	2029	rVB	74234	65168	4.04%	0.431%
80	14.063	2029	2036	2040	rBV6	34781	77008	4.77%	0.509%
81	14.098	2040	2042	2044	rVV2	28733	26996	1.67%	0.178%
82	14.133	2046	2048	2051	rVB	29042	27380	1.70%	0.181%
83	14.286	2069	2074	2077	rVV	93555	107284	6.64%	0.709%
84	14.315	2077	2079	2082	rVB	35024	31183	1.93%	0.206%
85	14.357	2082	2086	2088	rBV4	36179	46290	2.87%	0.306%
86	14.410	2093	2095	2101	rVV4	37915	73309	4.54%	0.485%
87	14.480	2105	2107	2109	rVB	28183	24558	1.52%	0.162%
88	14.610	2121	2129	2136	rBV7	47537	117154	7.26%	0.775%
89	14.774	2153	2157	2162	rVB3	45315	53656	3.32%	0.355%
90	14.927	2178	2183	2186	rBV	270455	424648	26.30%	2.808%
91	15.027	2196	2200	2204	rBV	50766	64323	3.98%	0.425%
92	15.115	2211	2215	2218	rBV5	16834	30451	1.89%	0.201%
93	15.215	2228	2232	2238	rVB	148259	174266	10.79%	1.152%
94	15.274	2238	2242	2248	rVV	221214	273258	16.92%	1.807%
95	15.333	2248	2252	2255	rVV	127003	159029	9.85%	1.051%
96	15.362	2255	2257	2263	rVB2	56897	81128	5.02%	0.536%
97	16.751	2487	2493	2500	rVB	82995	151939	9.41%	1.005%
98	16.909	2515	2520	2526	rBV3	21743	40234	2.49%	0.266%
99	17.186	2561	2567	2573	rBV2	56575	118132	7.32%	0.781%
100	17.427	2602	2608	2614	rBV4	14296	32715	2.03%	0.216%

Sum of corrected areas: 15124420

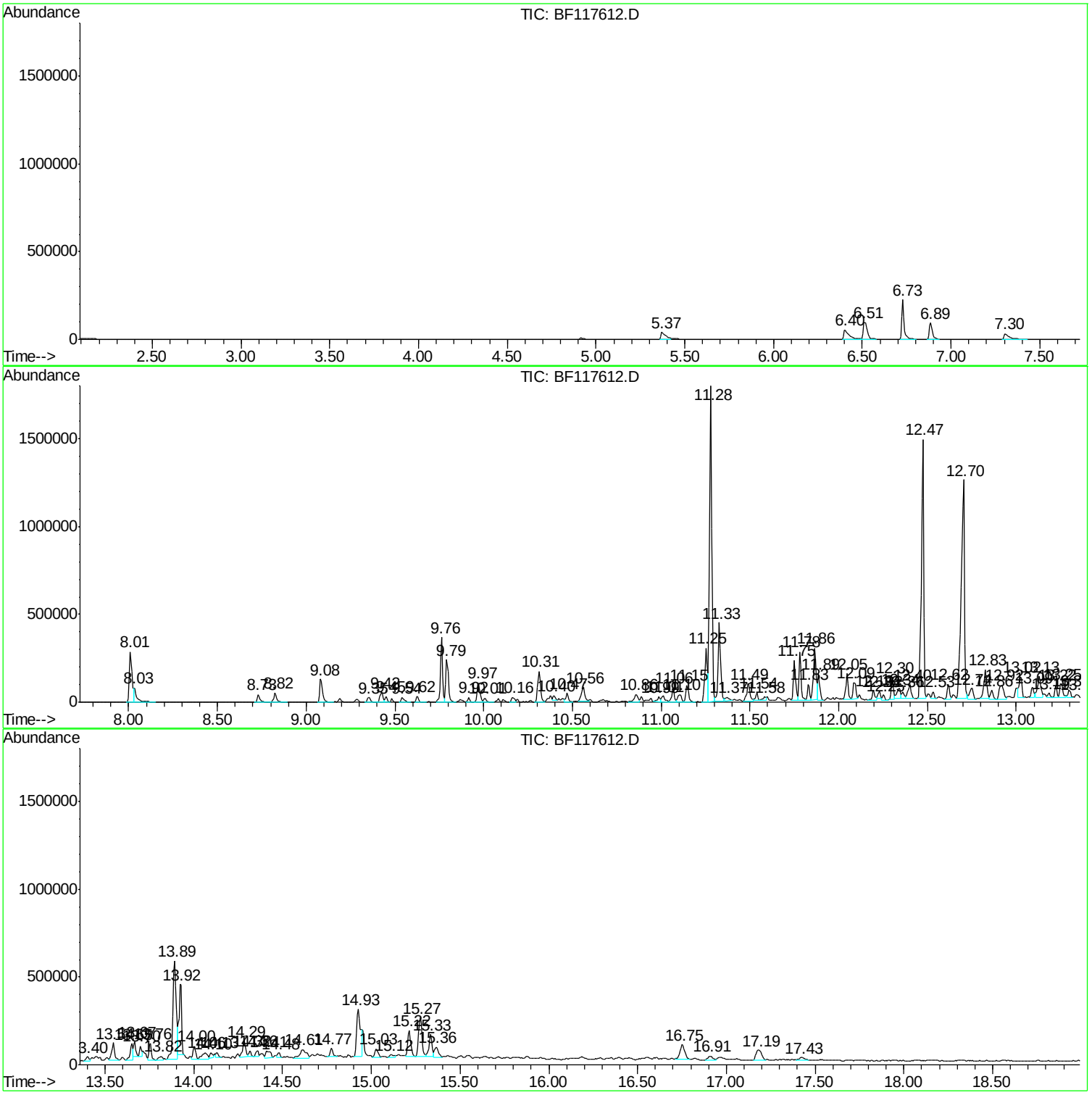
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117612.D
Acq On : 30 Oct 2019 1:42
Operator : JU
Sample : K5576-19 5X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CSA-2-1-8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.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\BF102919\
Data File : BF117612.D
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Sample : K5576-19 5X
Misc :
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Instrument : BNA_F
ClientSampleId : CSA-2-1-8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

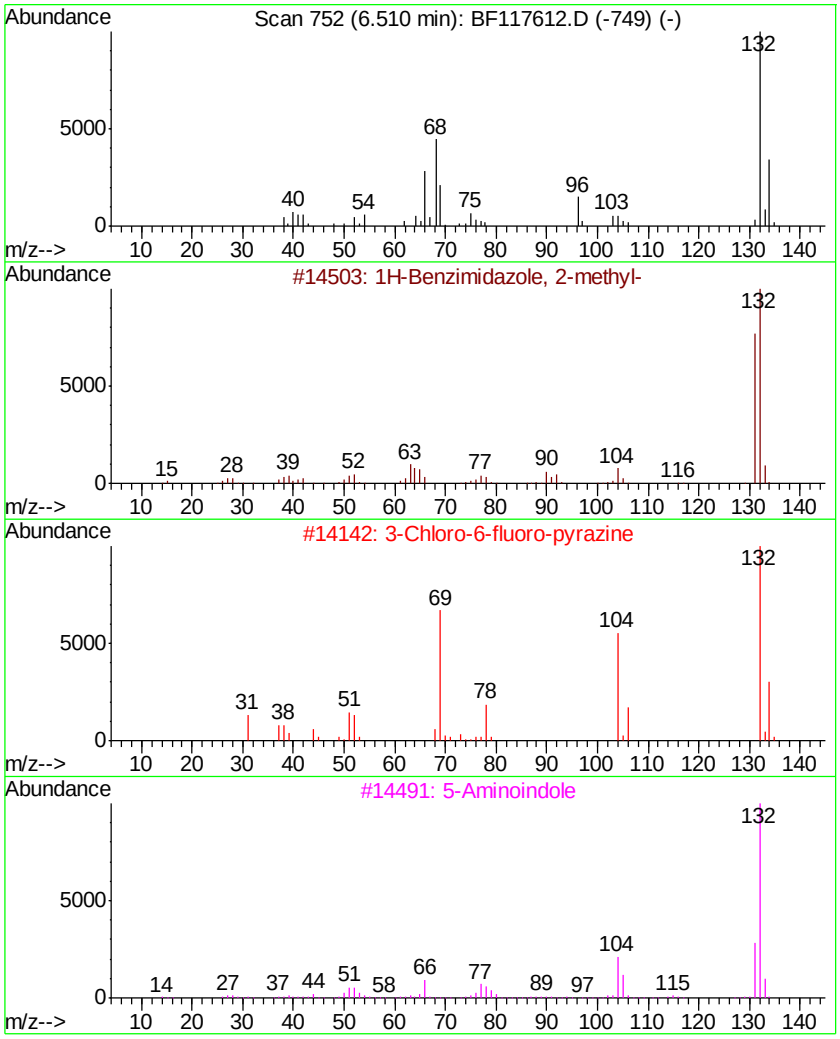
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

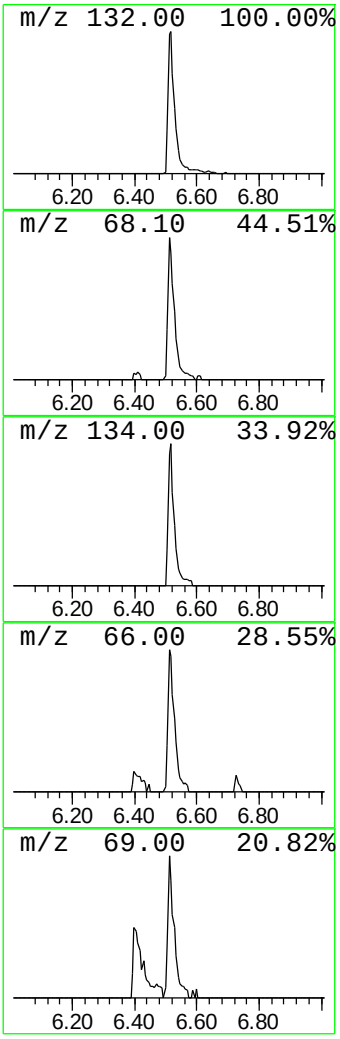
****

Peak Number 1 unknown6.51 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.51	12.48 ng	137566	1,4-Dichlorobenzene-d4	6.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	22
2	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16
3	5-Aminoindole	132	C8H8N2	005192-03-0	10
4	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9
5	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117612.D
Acq On : 30 Oct 2019 1:42
Operator : JU
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Misc :
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Instrument : BNA_F
ClientSampleId : CSA-2-1-8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

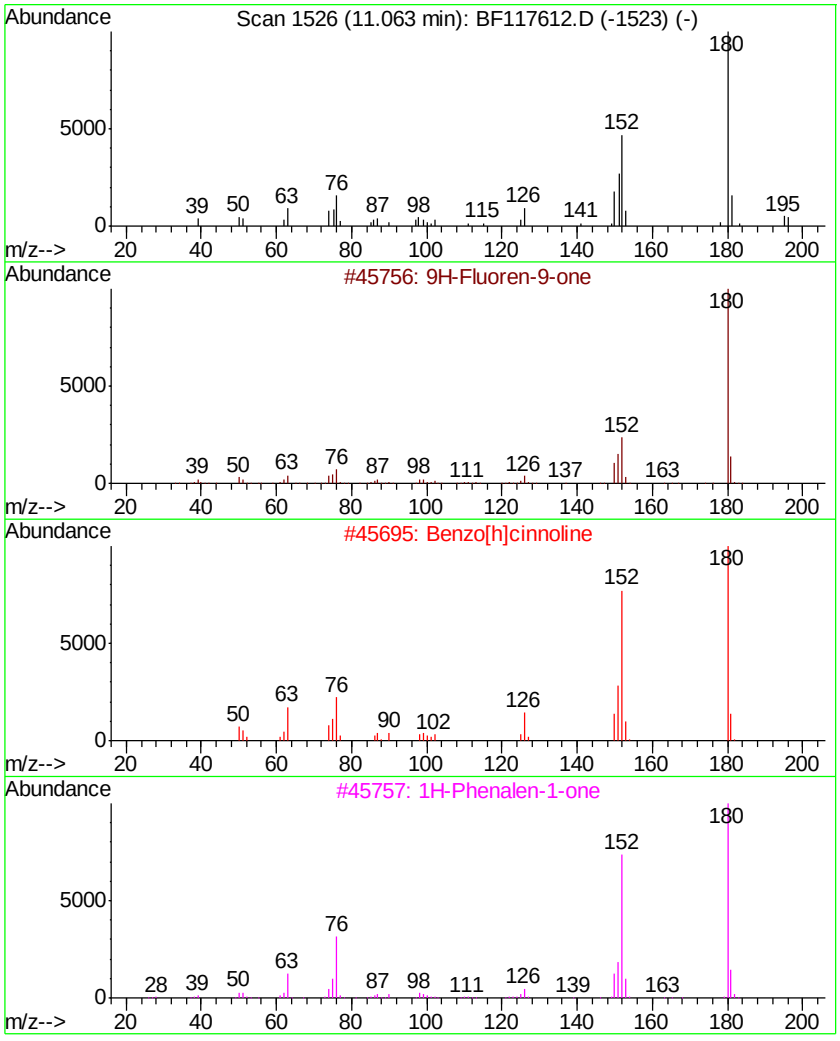
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

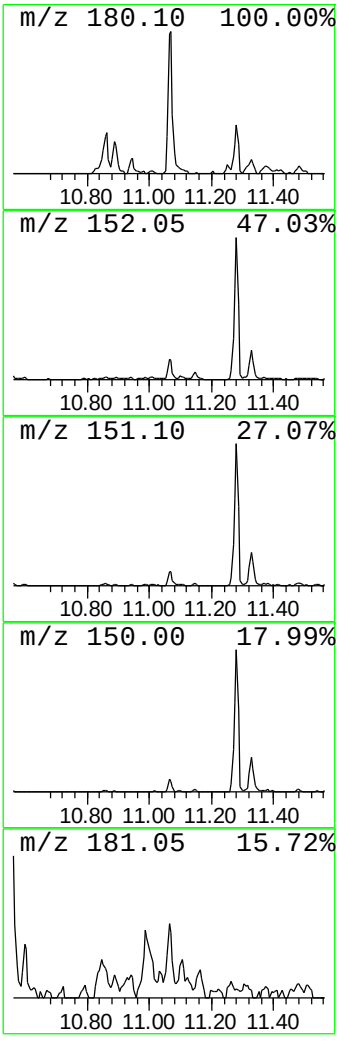
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.06	5.09 ng	81253	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	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	87
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	58
4	6H-Purine-6-thione, 9-ethyl-1,9-...	180	C7H8N4S	005427-20-3	53
5	2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	50





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
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Misc :
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Instrument : BNA_F
ClientSampleId : CSA-2-1-8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

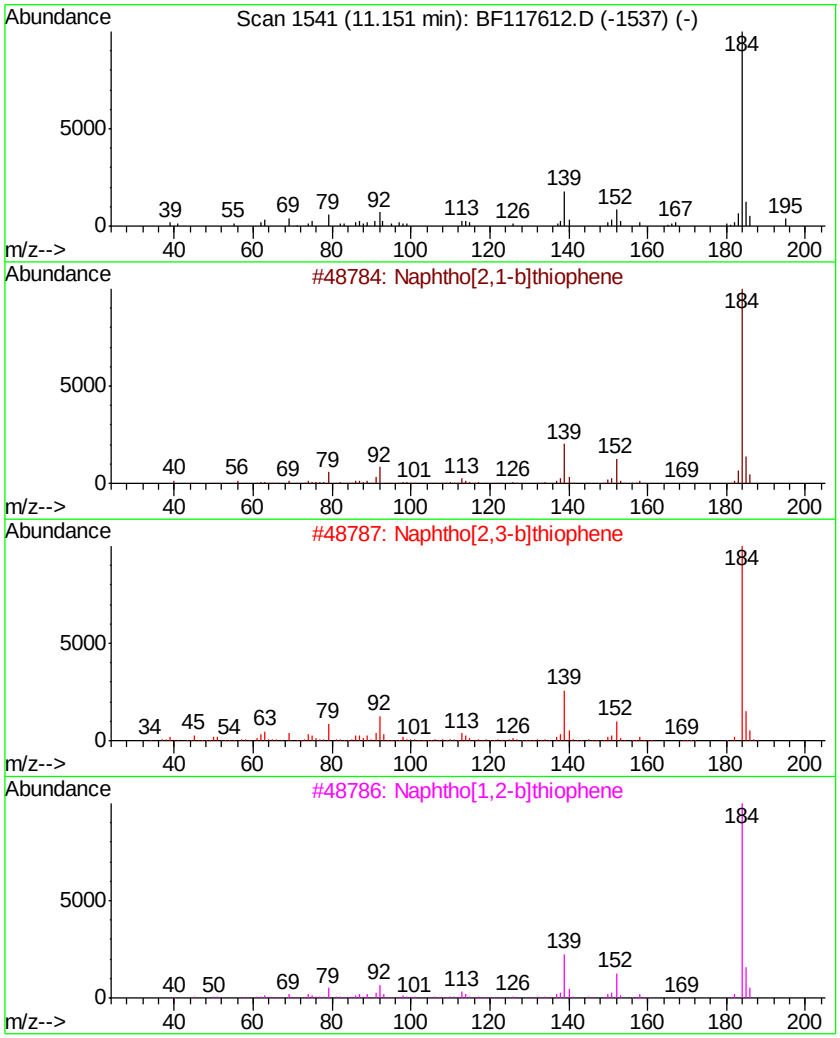
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

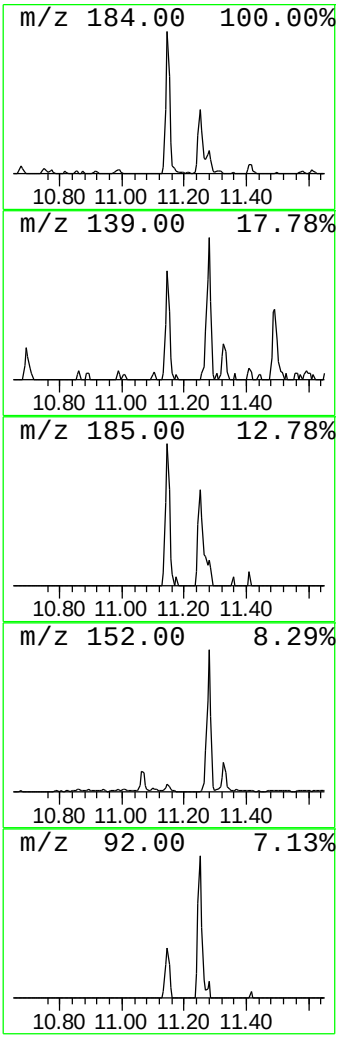
****

Peak Number 4 Naphtho[2,1-b]thiophene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.15	5.76 ng	91842	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	97
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	96
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	95
4	Dibenzothiophene	184	C12H8S	000132-65-0	91
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	87





Library Search Compound Report

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Sample : K5576-19 5X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CSA-2-1-8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

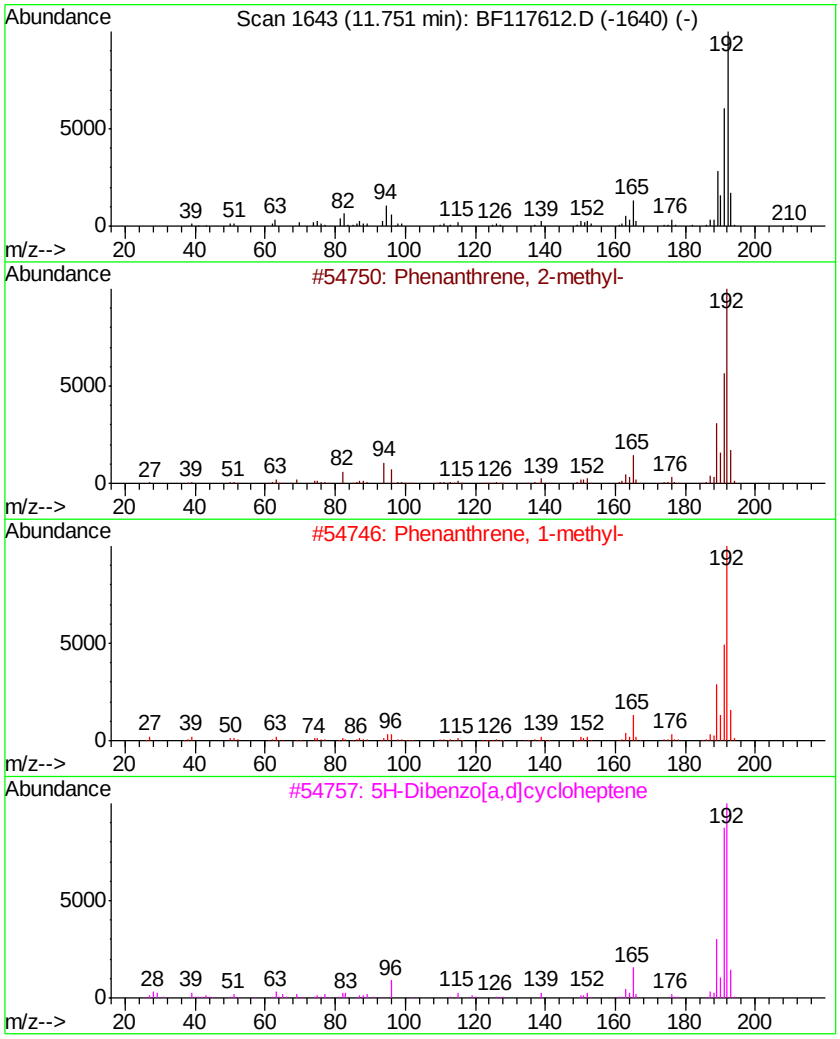
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

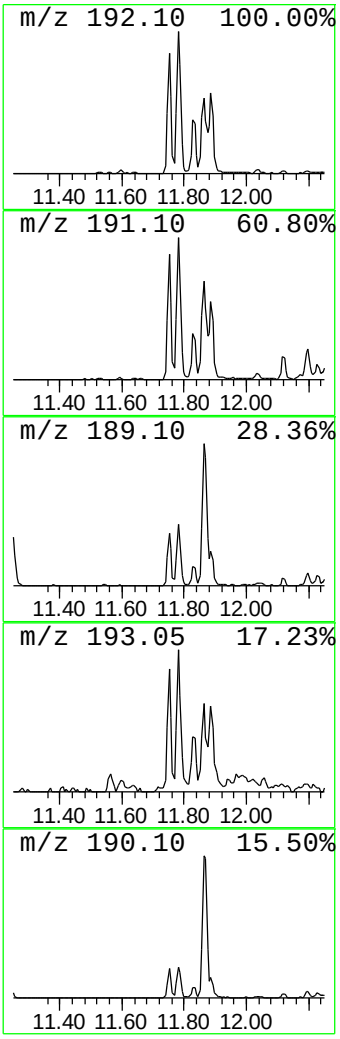
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.75	12.24 ng	195340	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
3	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	93
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117612.D
Acq On : 30 Oct 2019 1:42
Operator : JU
Sample : K5576-19 5X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CSA-2-1-8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

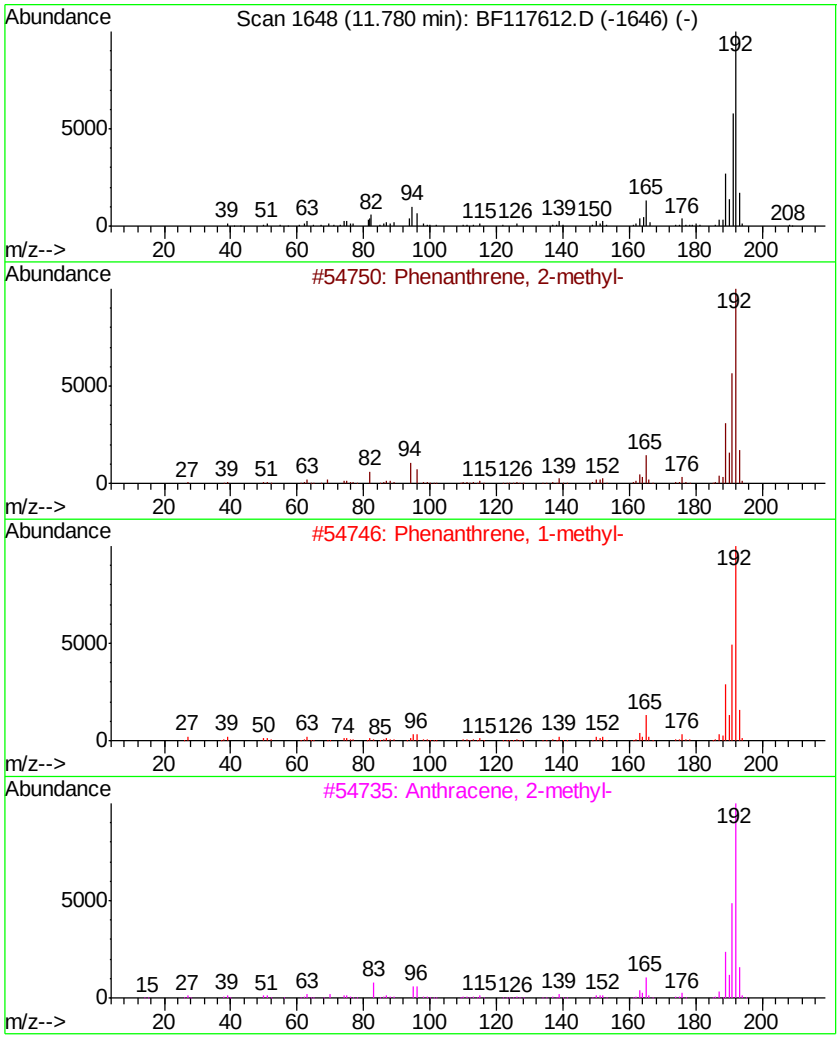
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

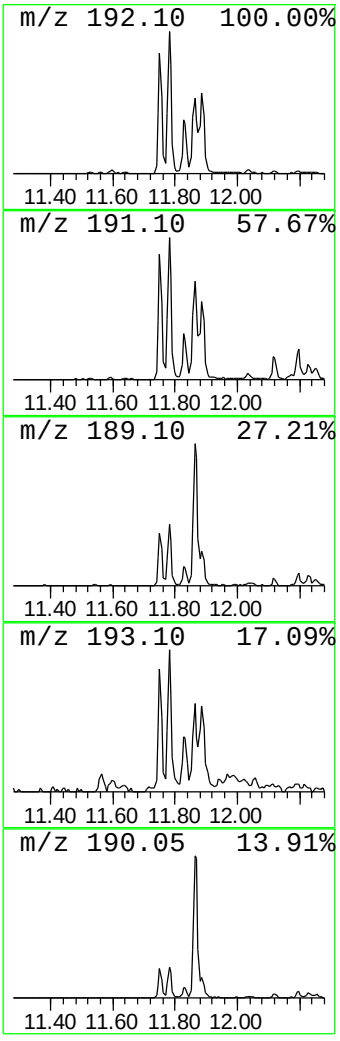
****

Peak Number 6 Phenanthrene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.78	14.72 ng	234785	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	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95





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Acq On : 30 Oct 2019 1:42
Operator : JU
Sample : K5576-19 5X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CSA-2-1-8

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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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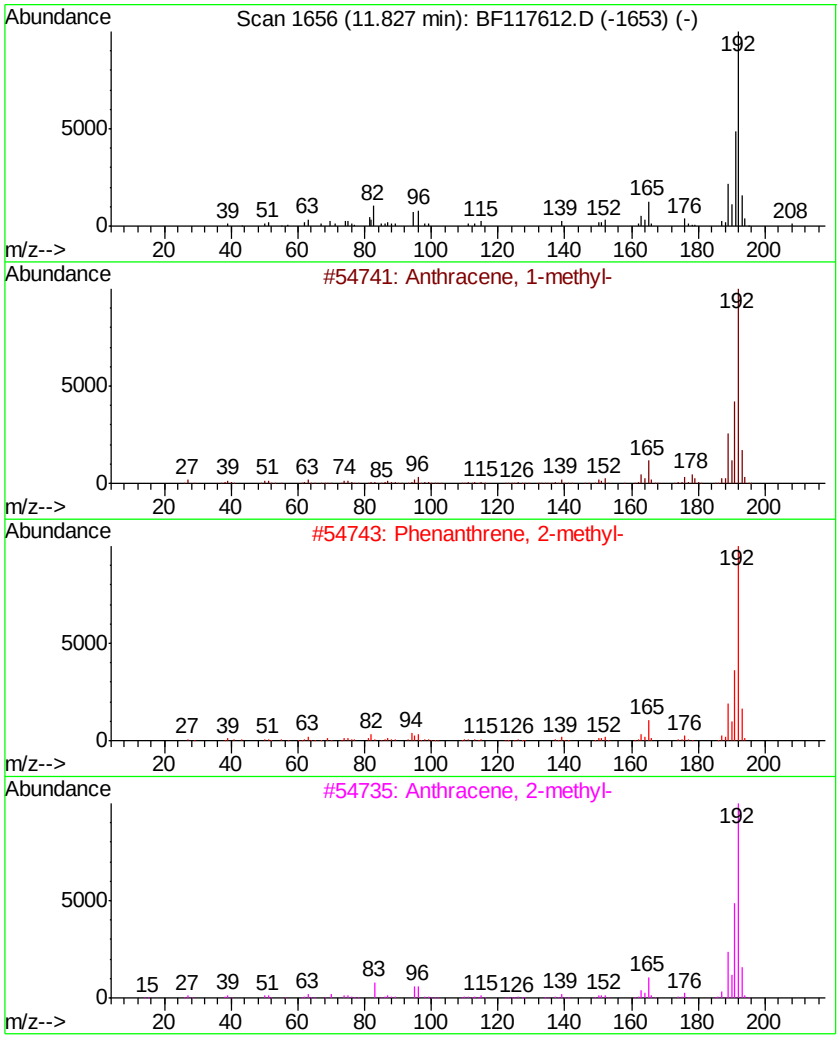
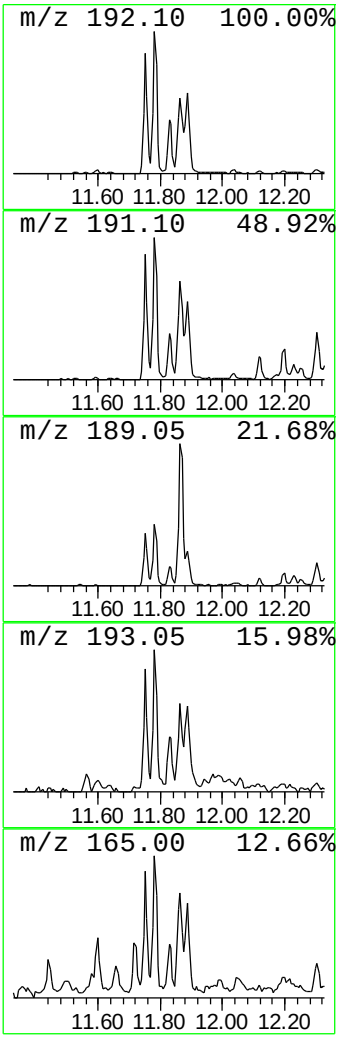
Peak Number 7 Anthracene, 1-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.83	5.26 ng	83930	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93





Library Search Compound Report

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Operator : JU
Sample : K5576-19 5X
Misc :
ALS Vial : 33 Sample Multiplier: 1

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ClientSampleId : CSA-2-1-8

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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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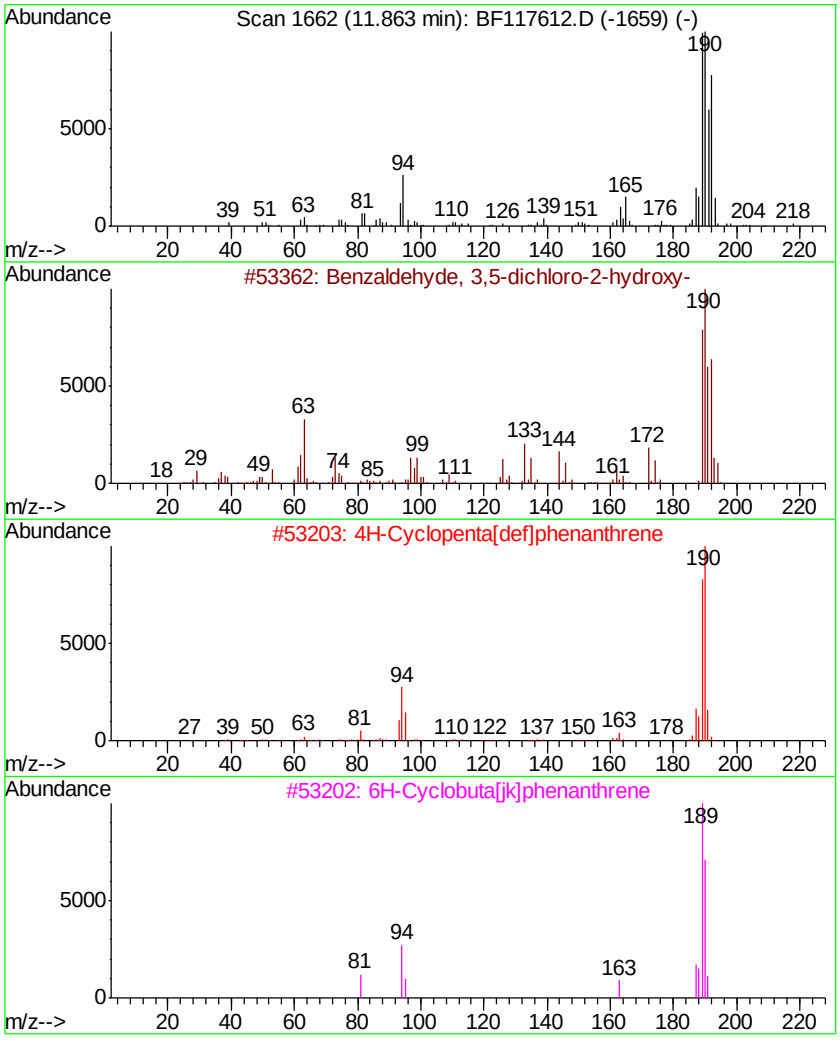
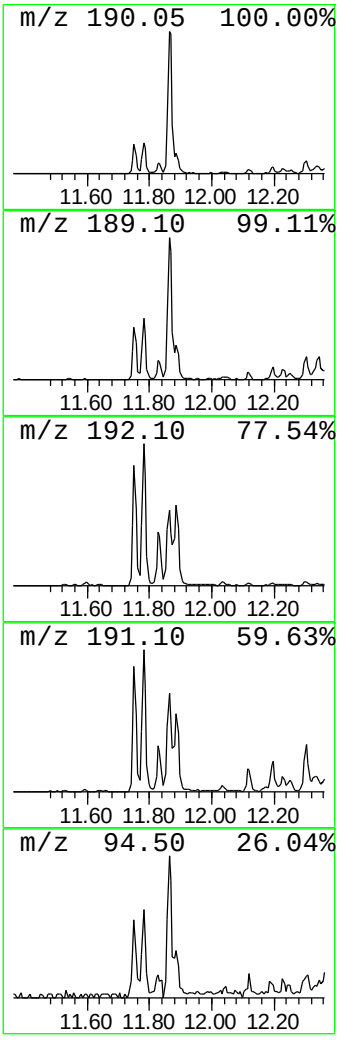
Peak Number 8 Benzaldehyde, 3,5-dichloro-... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.86	20.29 ng	323773	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	72
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
4	8,9-Dihydrocyclopenta[def]phenan...	192	C15H12	027410-55-5	42
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	42





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Sample : K5576-19 5X
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ClientSampleId : CSA-2-1-8

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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 Propyne, 1,3-diphenyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	6.35 ng	101236	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	90
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	87
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	83
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	81
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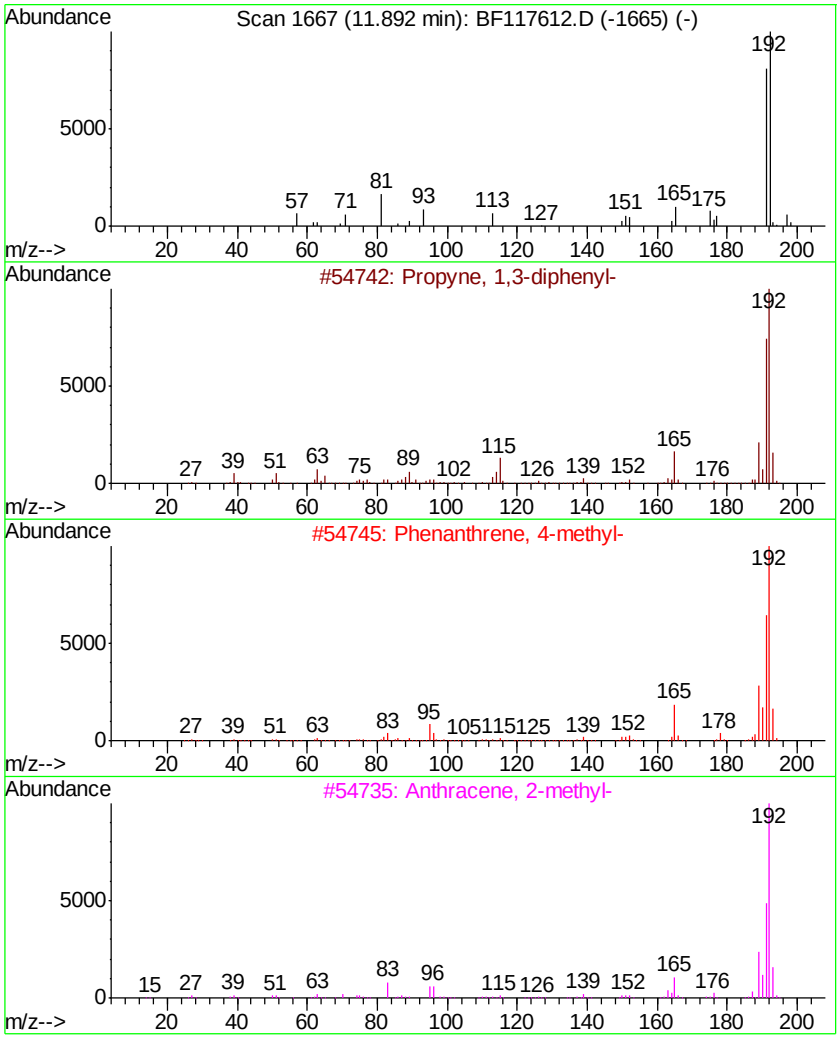

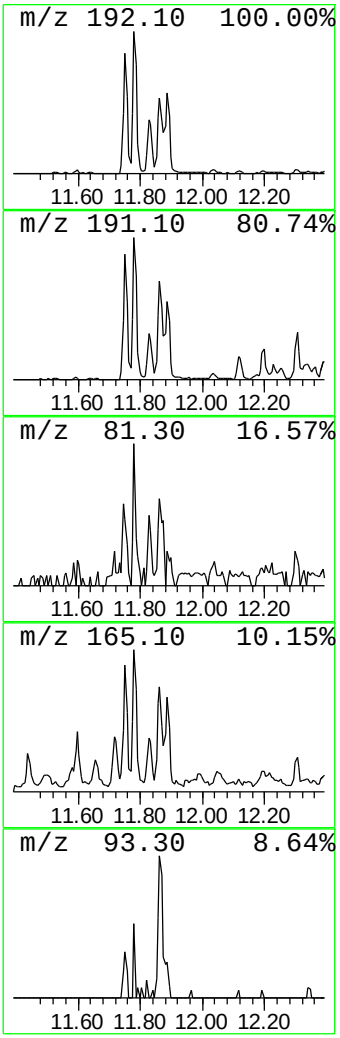

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Operator : JU
Sample : K5576-19 5X
Misc :
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Instrument : BNA_F
ClientSampleId : CSA-2-1-8

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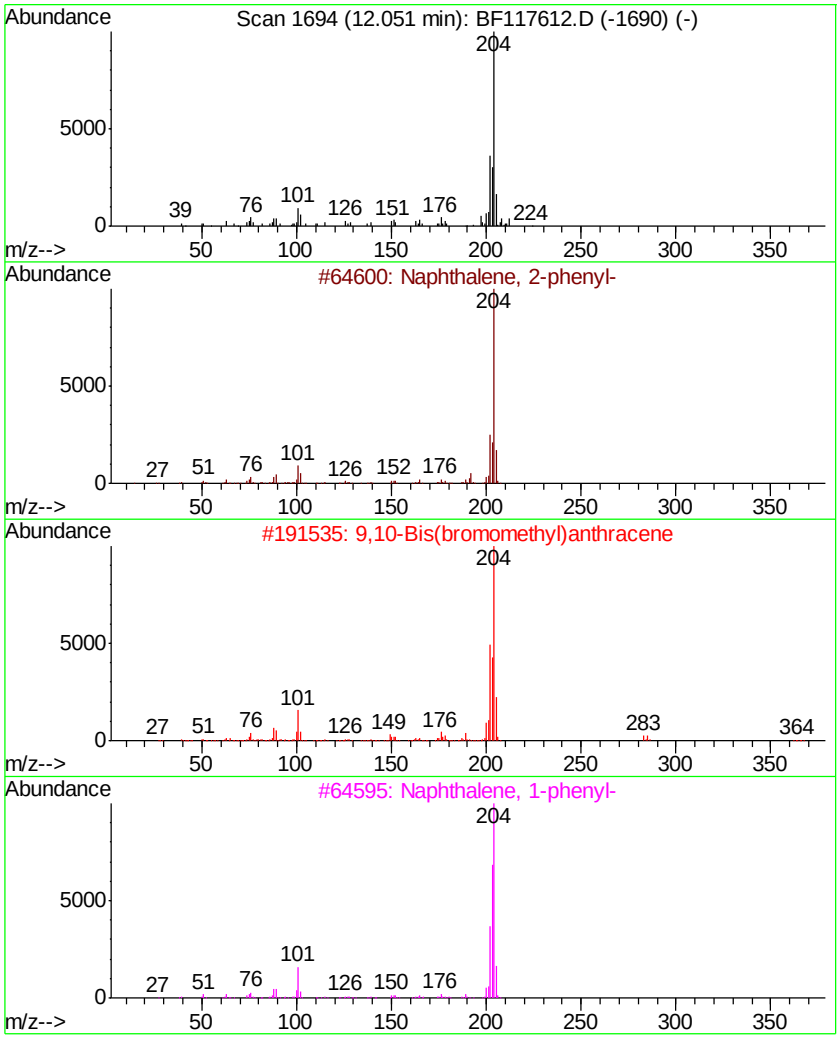
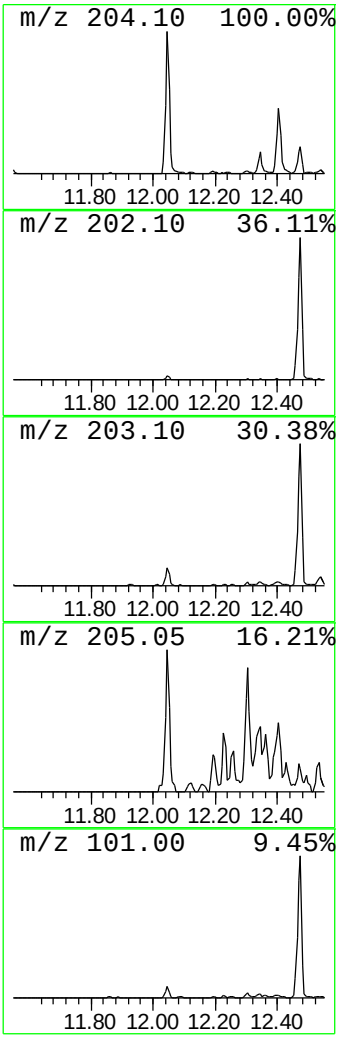
Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	7.88 ng	125641	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	90
2	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	62
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	62
4	Benzene, 1,1'-(1-buten-3-yne-1,4...	204	C16H12	013141-45-2	60
5	[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	53





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Sample : K5576-19 5X
Misc :
ALS Vial : 33 Sample Multiplier: 1

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ClientSampleId : CSA-2-1-8

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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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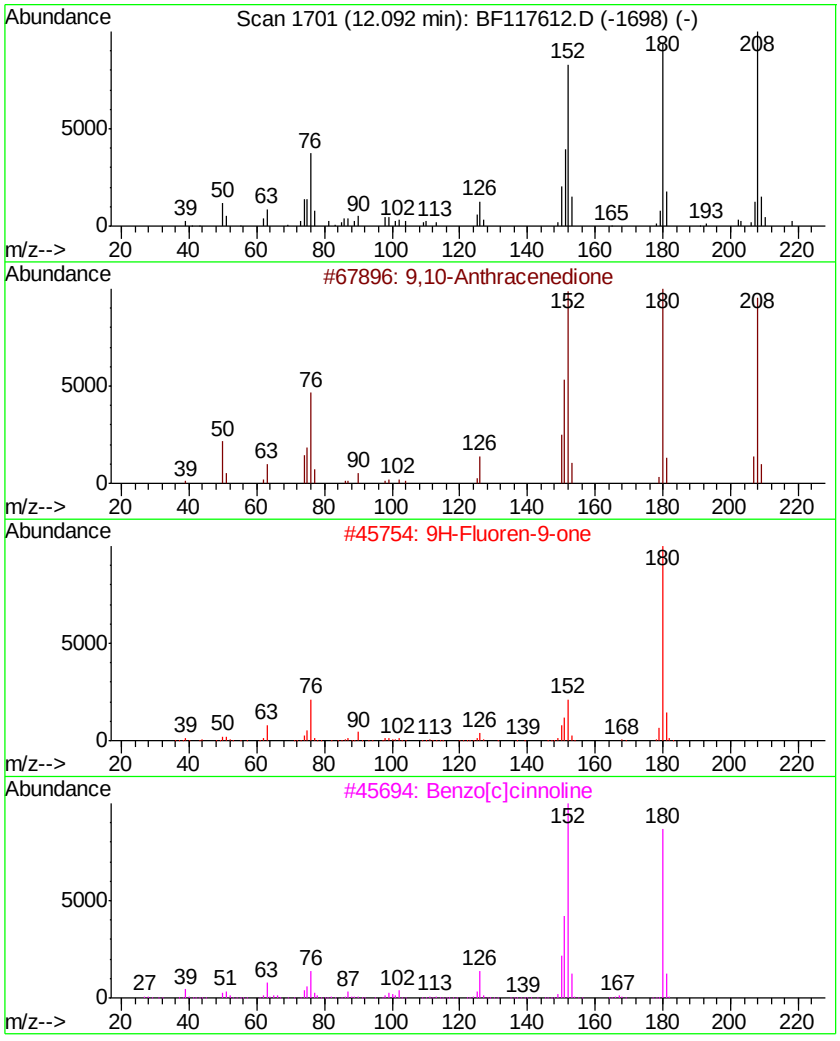
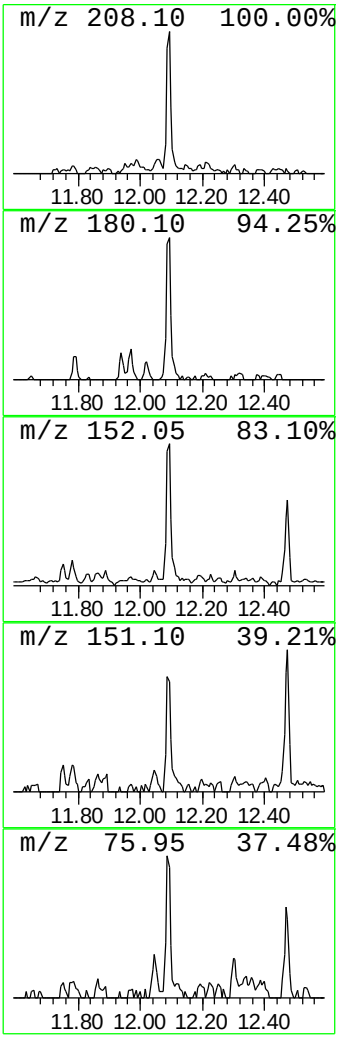
Peak Number 11 9,10-Anthracenedione Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.09	5.79 ng	92432	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	92
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	92
4	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	53
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	49





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Sample : K5576-19 5X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CSA-2-1-8

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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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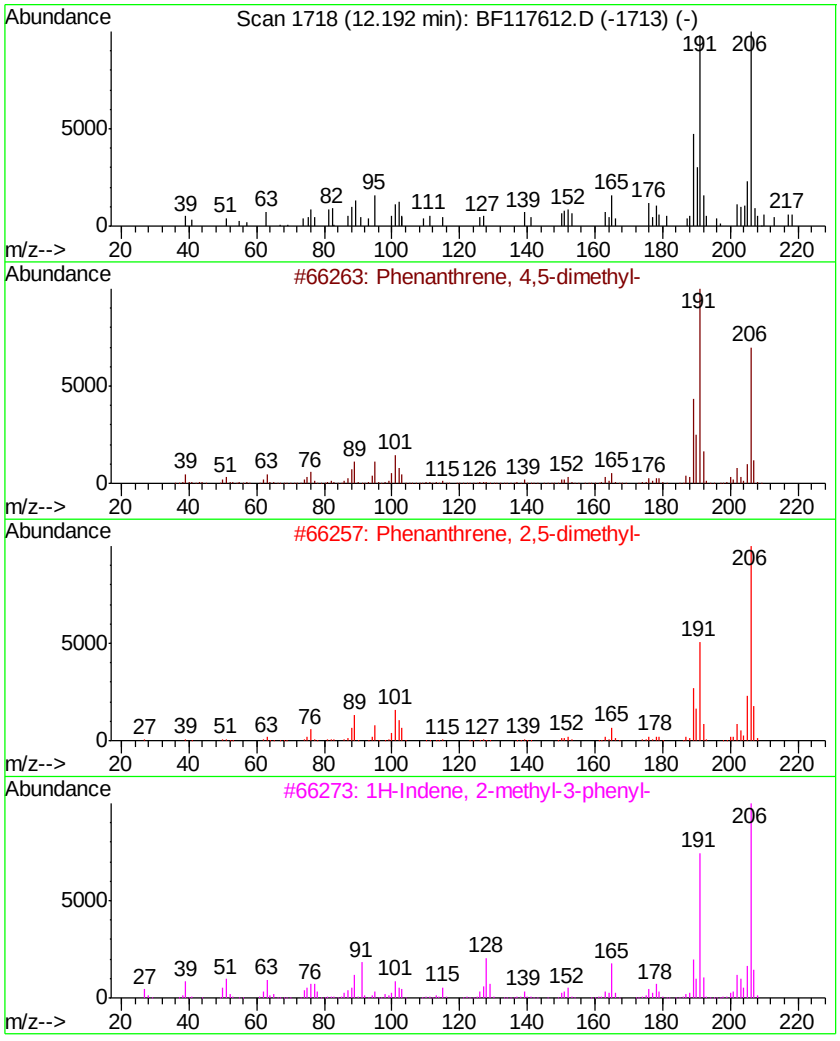
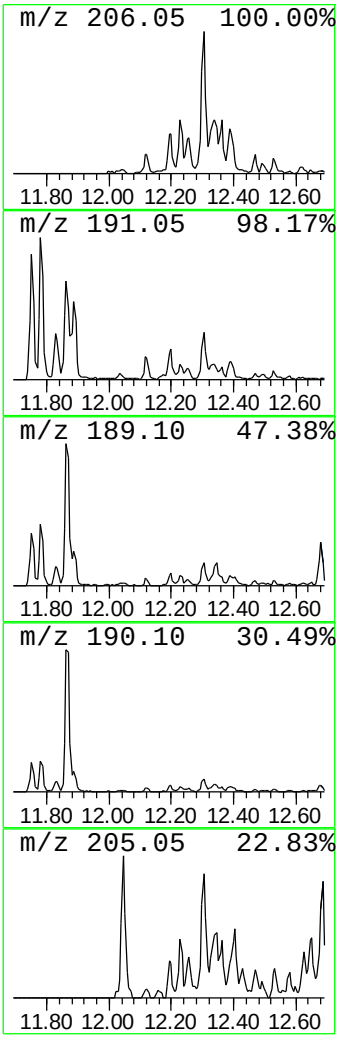
Peak Number 12 Phenanthrene, 4,5-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.19	4.08 ng	65125	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	90
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90
5	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	89





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Operator : JU
Sample : K5576-19 5X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CSA-2-1-8

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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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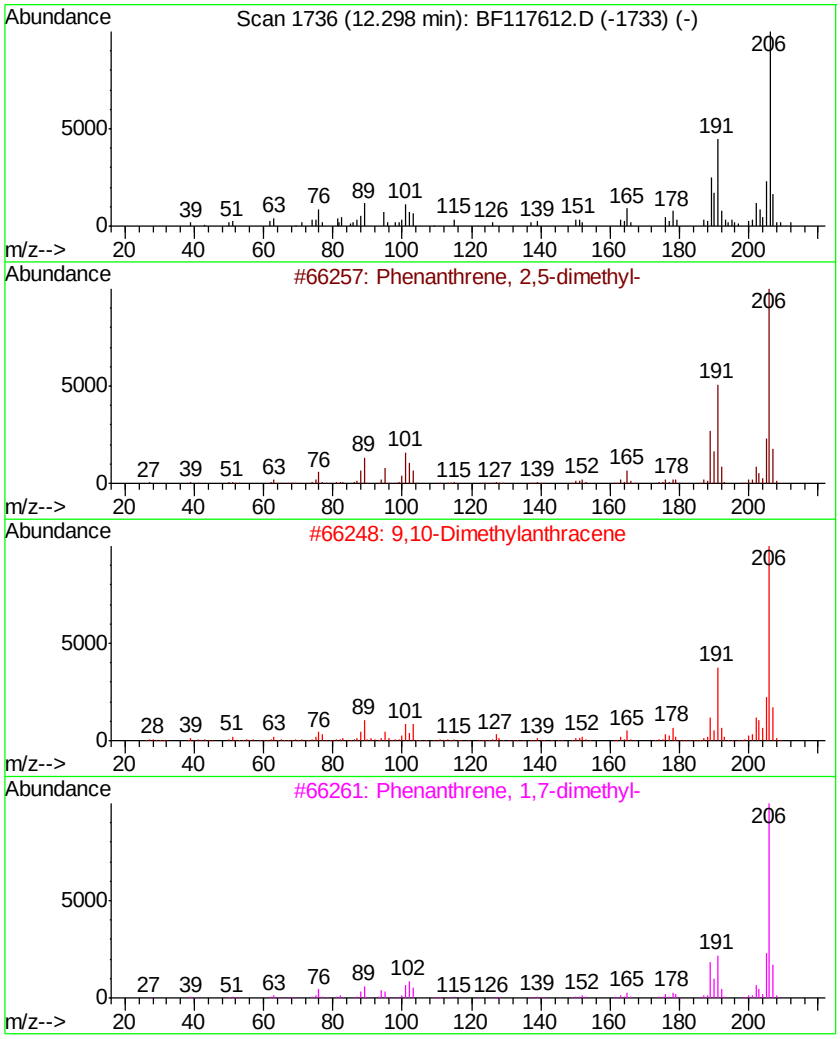
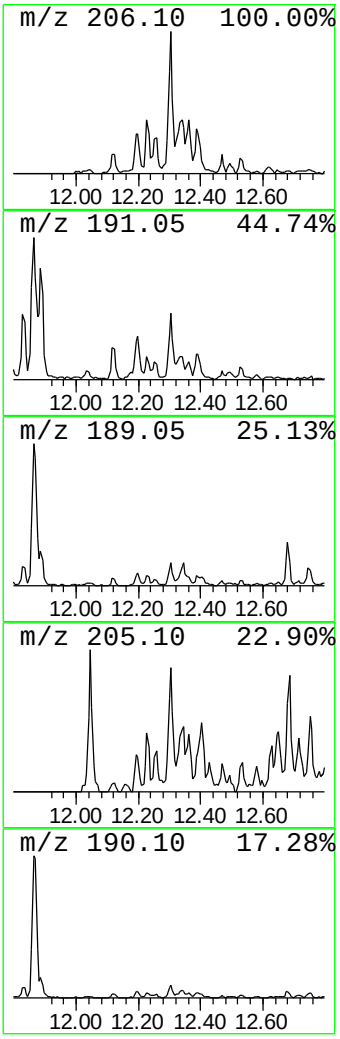
Peak Number 13 Phenanthrene, 1,7-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.30	7.61 ng	121356	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
4	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	89
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87





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Misc :
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Instrument : BNA_F
ClientSampleId : CSA-2-1-8

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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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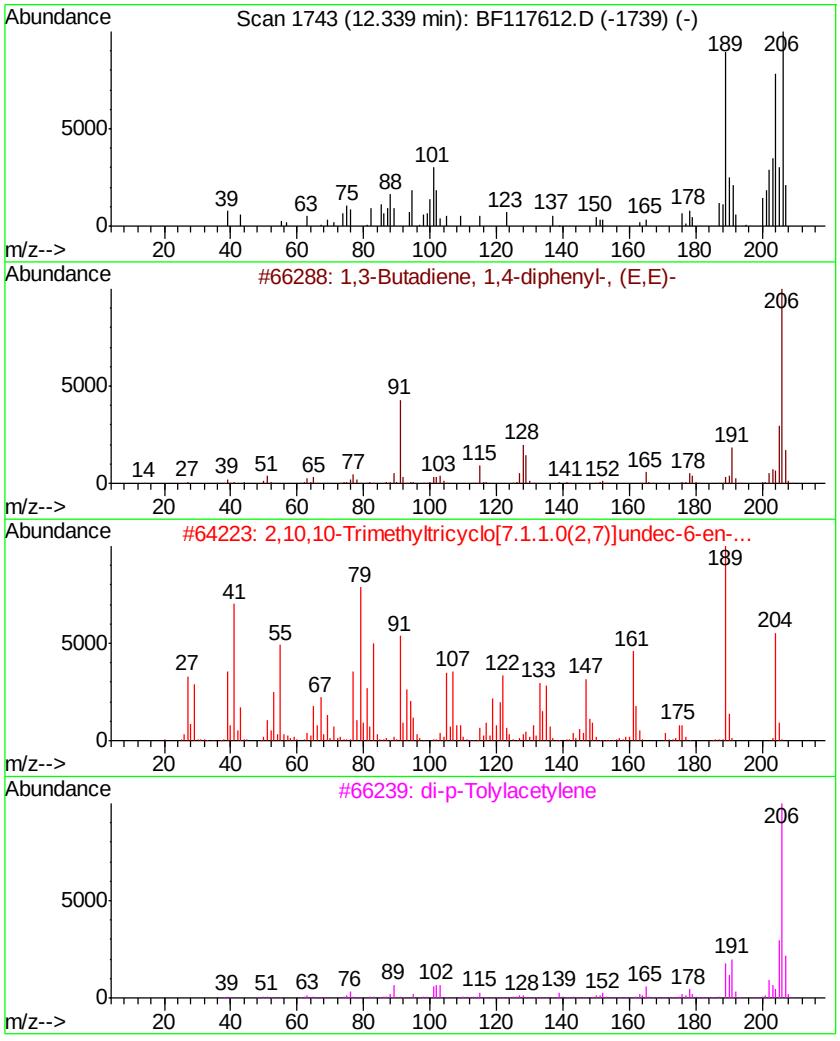
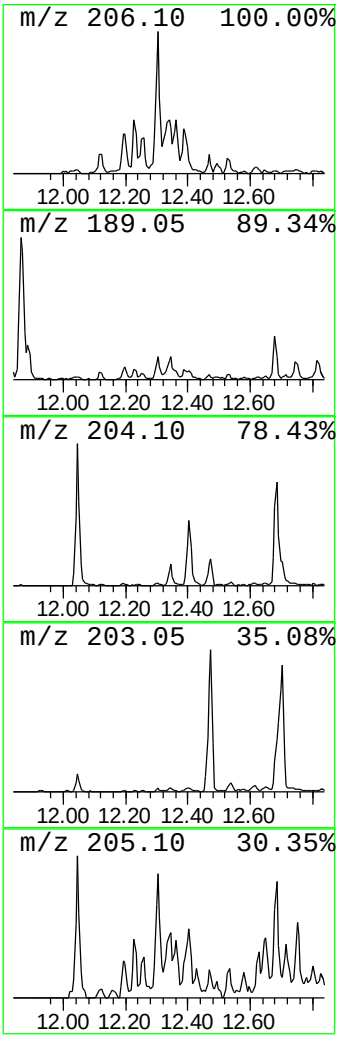
Peak Number 14 unknown12.34 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.34	5.13 ng	81901	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	38
2	2,10,10-Trimethyltricyclo[7.1.1....	204	C14H20O	1000210-81-9	38
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	38
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	38
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	38





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ClientSampleId : CSA-2-1-8

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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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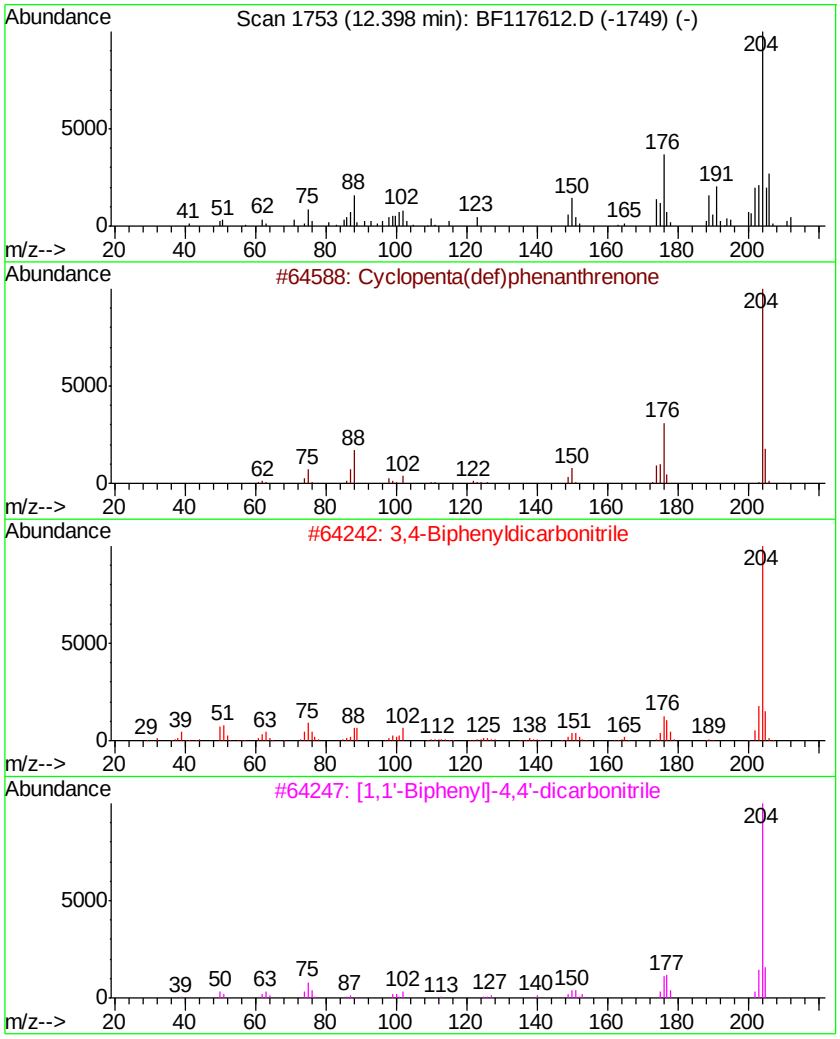
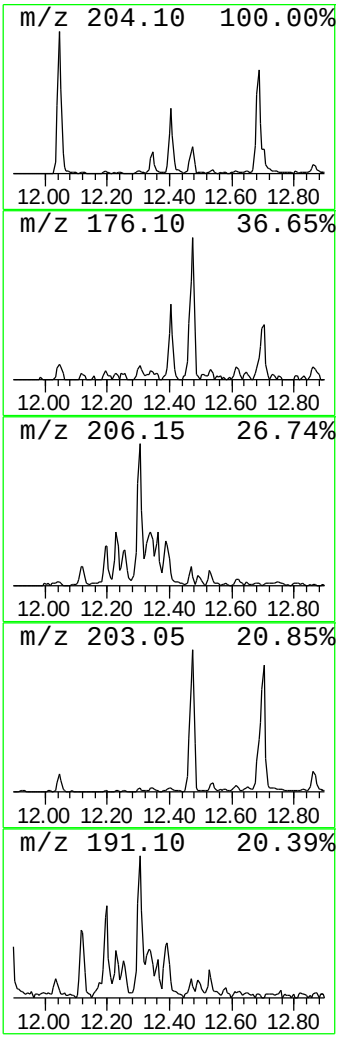
Peak Number 15 Cyclopenta(def)phenanthrenone Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	6.15 ng	98146	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	90
2	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	64
3	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	59
4	6-Phenyl-2-thiouracil	204	C10H8N2OS	005590-94-3	50
5	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	50





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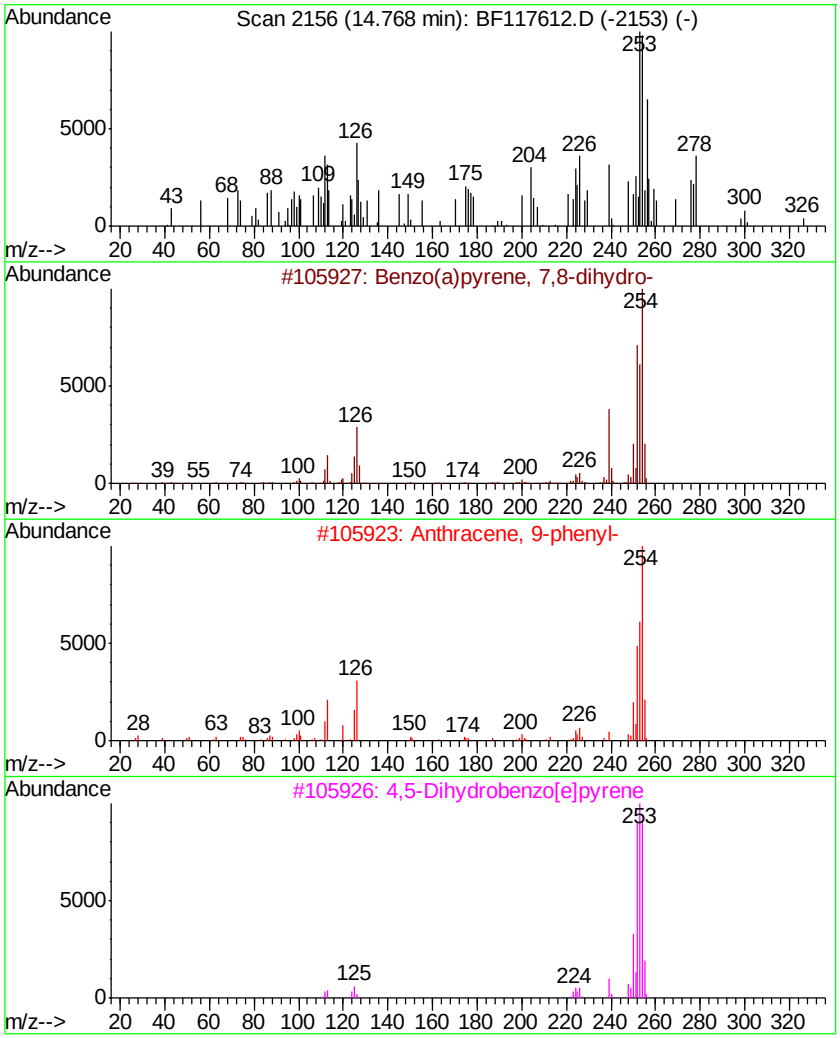
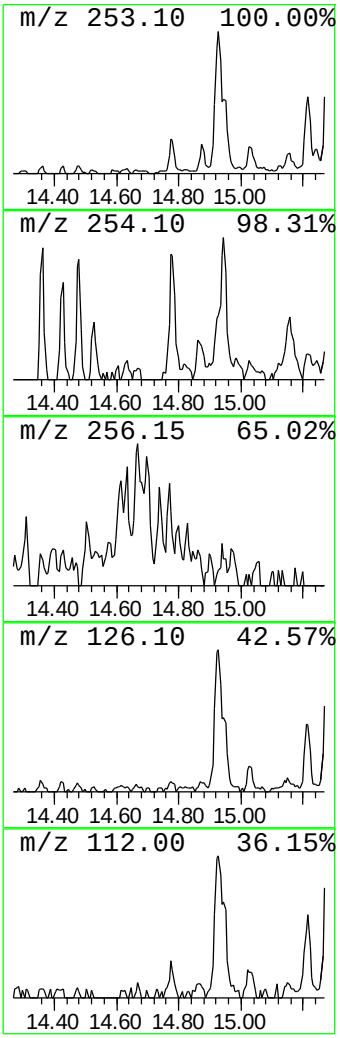
Peak Number 16 Benzo(a)pyrene, 7,8-dihydro- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.77	6.75 ng	53656	Perylene-d12	15.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo(a)pyrene, 7,8-dihydro-	254	C20H14	017573-23-8	64
2	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	64
3	4,5-Dihydrobenzo[e]pyrene	254	C20H14	095676-42-9	64
4	1,1'-Binaphthalene	254	C20H14	000604-53-5	62
5	1H-Indene, 1,1'-(1,2-ethanediyli...	254	C20H14	072088-04-1	58





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ClientSampleId : CSA-2-1-8

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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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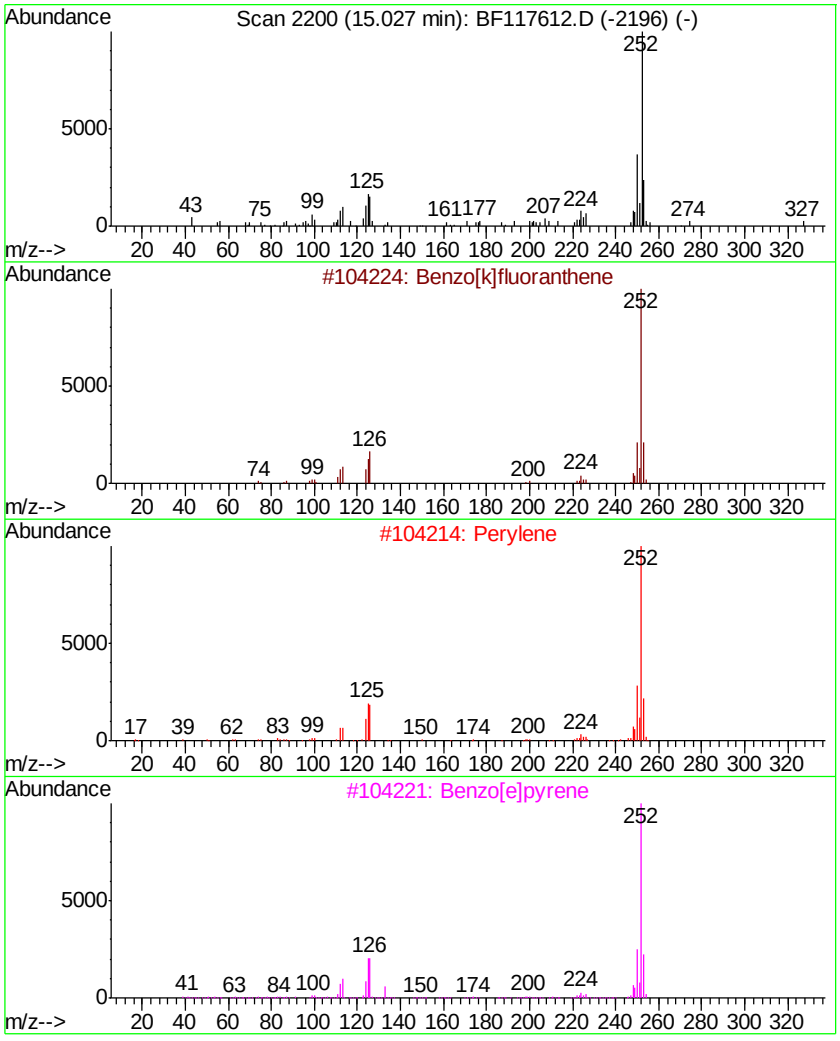
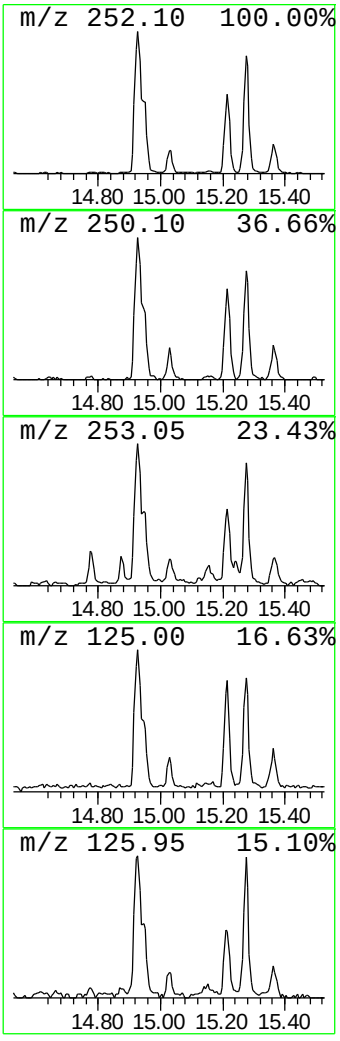
Peak Number 17 Perylene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.03	8.09 ng	64323	Perylene-d12	15.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	96
2	Perylene	252	C20H12	000198-55-0	94
3	Benzo[e]pyrene	252	C20H12	000192-97-2	94
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90





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Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CSA-2-1-8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.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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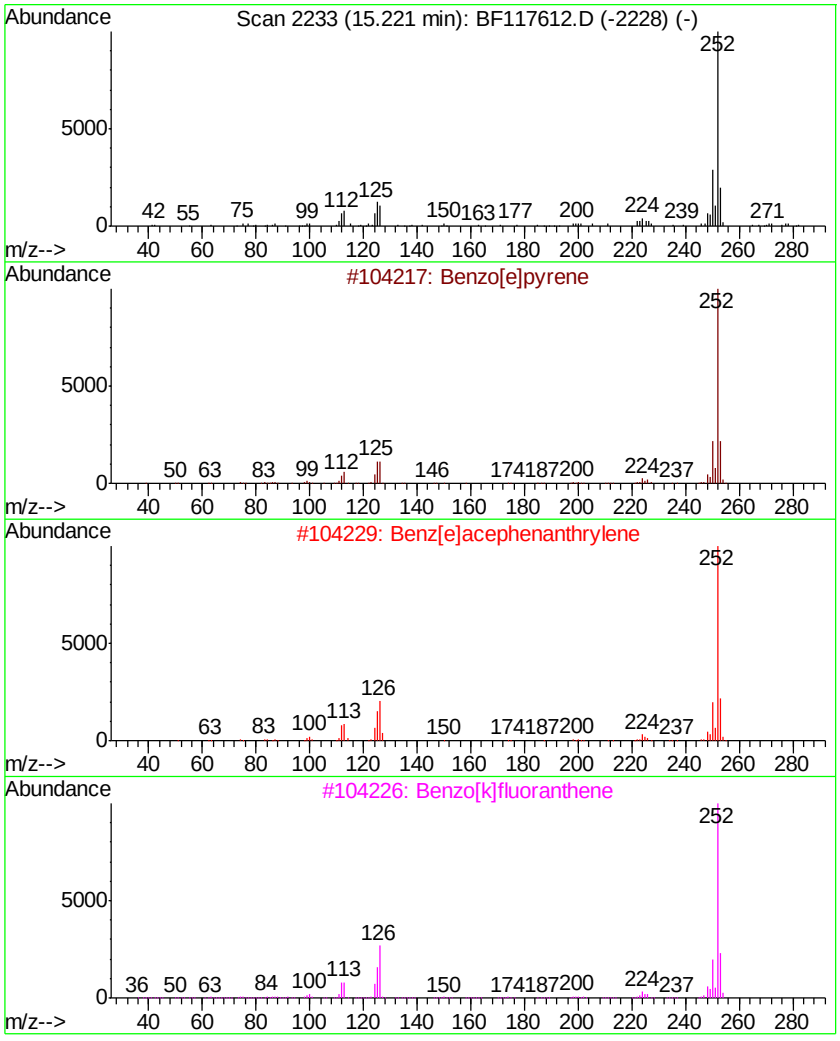
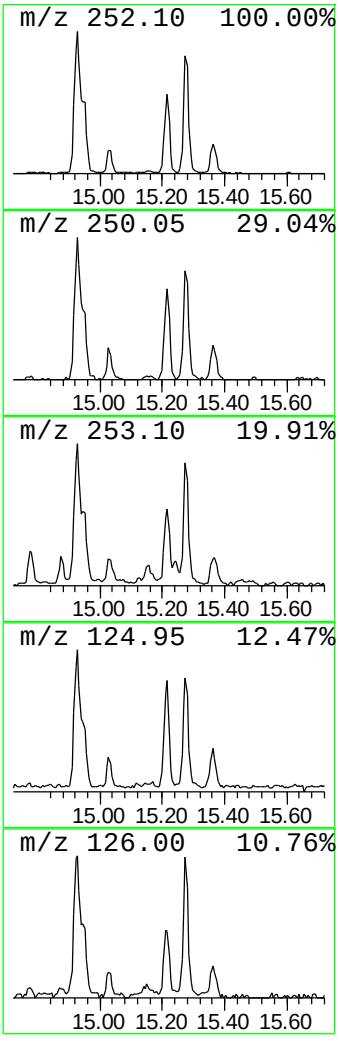
Peak Number 18 Benzo[e]pyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.22	21.92 ng	174266	Perylene-d12	15.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
4	Perylene	252	C20H12	000198-55-0	90
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	89





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117612.D
Acq On : 30 Oct 2019 1:42
Operator : JU
Sample : K5576-19 5X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CSA-2-1-8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.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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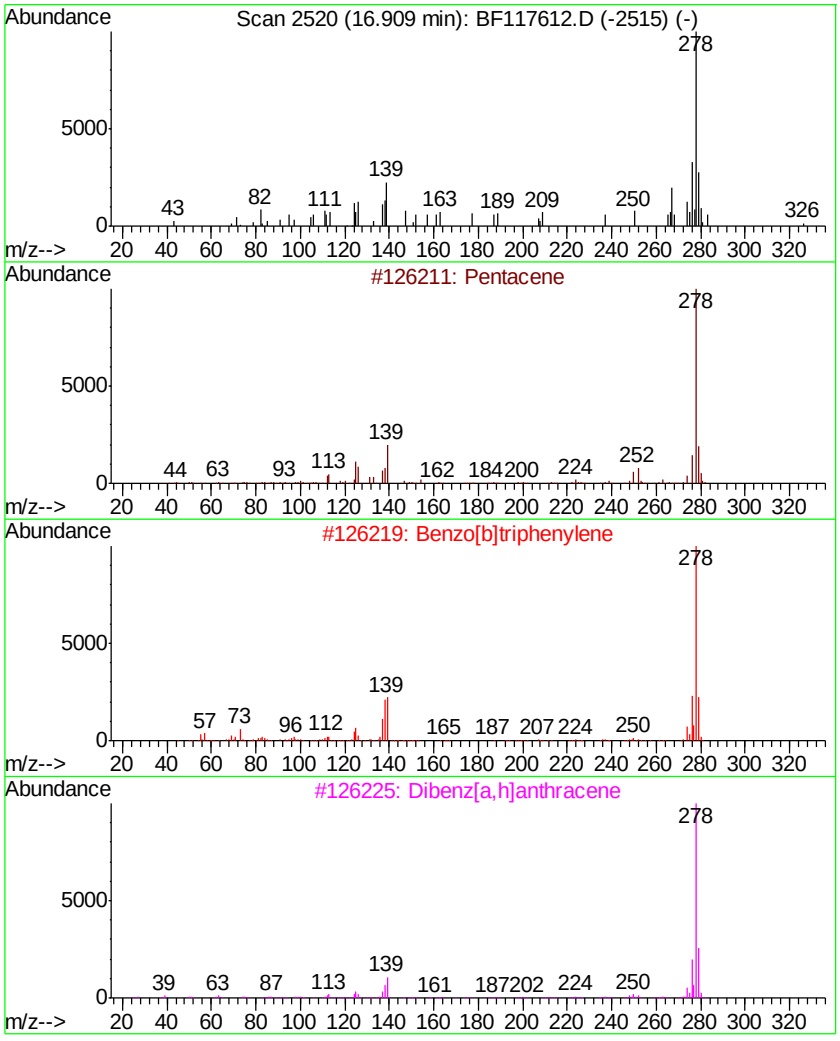
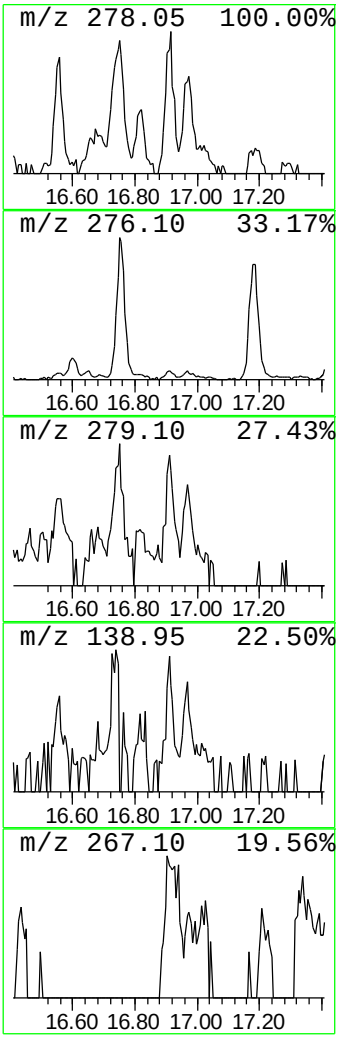
Peak Number 19 Pentacene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.91	5.06 ng	40234	Perylene-d12	15.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentacene	278	C22H14	000135-48-8	64
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	62
3	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	58
4	p-Bis(phenylethynyl)benzene	278	C22H14	001849-27-0	53
5	Dibenz[a,j]anthracene	278	C22H14	000224-41-9	53





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117612.D
Acq On : 30 Oct 2019 1:42
Operator : JU
Sample : K5576-19 5X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CSA-2-1-8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.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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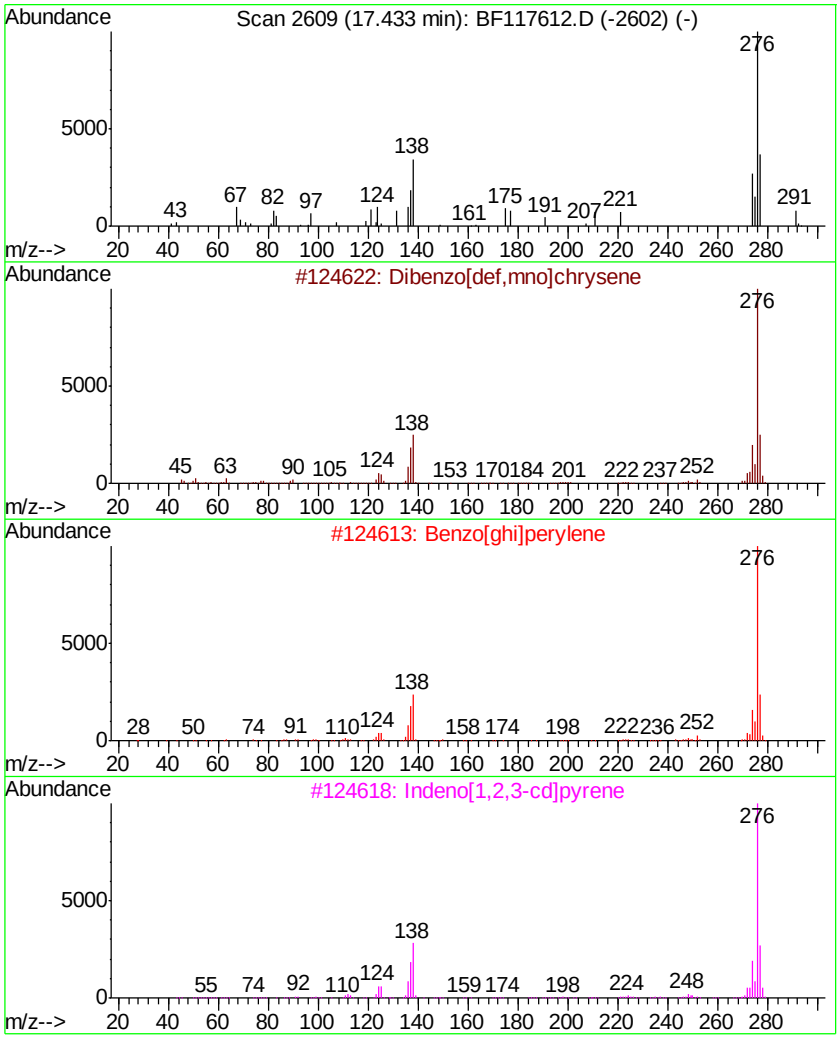
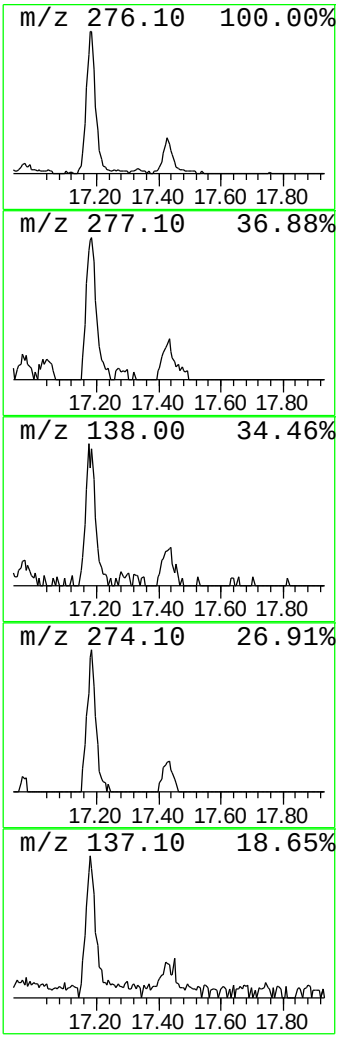
Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.43	4.11 ng	32715	Perylene-d12	15.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	81
2	Benzo[ghi]perylene	276	C22H12	000191-24-2	81
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	81
4	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	74
5	2-Amino-3-cyano-4,5-diphenylthio...	276	C17H12N2S	042160-34-9	50





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF102919\
Data File : BF117612.D
Acq On : 30 Oct 2019 1:42
Operator : JU
Sample : K5576-19 5X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CSA-2-1-8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.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
unknown6.51	6.51	12.5	ng	137566	1	6.73	220536	20.0
9H-Fluoren-9-one	11.06	5.1	ng	81253	4	11.25	319080	20.0
Naphtho[2,1-b]thi...	11.15	5.8	ng	91842	4	11.25	319080	20.0
Phenanthrene, 2-m...	11.75	12.2	ng	195340	4	11.25	319080	20.0
Phenanthrene, 1-m...	11.78	14.7	ng	234785	4	11.25	319080	20.0
Anthracene, 1-met...	11.83	5.3	ng	83930	4	11.25	319080	20.0
Benzaldehyde, 3,5...	11.86	20.3	ng	323773	4	11.25	319080	20.0
Propyne, 1,3-diph...	11.89	6.3	ng	101236	4	11.25	319080	20.0
Naphthalene, 2-ph...	12.05	7.9	ng	125641	4	11.25	319080	20.0
9,10-Anthracenedione	12.09	5.8	ng	92432	4	11.25	319080	20.0
Phenanthrene, 4,5...	12.19	4.1	ng	65125	4	11.25	319080	20.0
Phenanthrene, 1,7...	12.30	7.6	ng	121356	4	11.25	319080	20.0
unknown12.34	12.34	5.1	ng	81901	4	11.25	319080	20.0
Cyclopenta(def)ph...	12.40	6.2	ng	98146	4	11.25	319080	20.0
Benzo(a)pyrene, 7...	14.77	6.8	ng	53656	6	15.33	159029	20.0
Perylene	15.03	8.1	ng	64323	6	15.33	159029	20.0
Benzo[e]pyrene	15.22	21.9	ng	174266	6	15.33	159029	20.0
Pentacene	16.91	5.1	ng	40234	6	15.33	159029	20.0
Dibenzo[def,mno]c...	17.43	4.1	ng	32715	6	15.33	159029	20.0