LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080819\
Data File : BF116095.D
Acq On : 9 Aug 2019 3:51
Operator : HP/JU
Sample : K4192-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

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

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-BF073019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.463	570	574	593	rBV	2644446	2702847	66.94%	3.847%
2	6.475	742	746	765	rBV	2472132	2945620	72.96%	4.193%
3	6.610	765	769	776	rBV	3170509	2922093	72.37%	4.159%
4	6.840	804	808	816	rBV	979136	928600	23.00%	1.322%
5	6.992	830	834	846	rBV	2636204	2426589	60.10%	3.454%
6	7.398	899	903	916	rBV	1873303	1917895	47.50%	2.730%
7	8.116	1019	1025	1046	rVB	1372407	1342692	33.26%	1.911%
8	8.834	1143	1147	1154	rVV2	53770	60489	1.50%	0.086%
9	8.928	1158	1163	1172	rVB	70286	75688	1.87%	0.108%
10	9.192	1203	1208	1211	rBV	3933170	3524351	87.29%	5.016%
11	9.528	1262	1265	1268	rBV	68396	75922	1.88%	0.108%
12	9.581	1272	1274	1282	rVV	580277	586455	14.53%	0.835%
13	9.645	1282	1285	1293	rVV	42853	48581	1.20%	0.069%
14	9.733	1297	1300	1307	rVB	173602	158367	3.92%	0.225%
15	9.869	1316	1323	1326	rBV	1627296	1392738	34.50%	1.982%
16	9.904	1326	1329	1334	rVB	271145	261338	6.47%	0.372%
17	10.075	1354	1358	1362	rVV	155009	151641	3.76%	0.216%
18	10.416	1413	1416	1422	rBV	229177	221500	5.49%	0.315%
19	10.575	1440	1443	1447	rVB	85382	78144	1.94%	0.111%
20	10.663	1454	1458	1469	rVB	1872959	1894471	46.92%	2.696%
21	10.786	1477	1479	1484	rVB2	64406	75165	1.86%	0.107%
22	10.969	1503	1510	1513	rBV3	78472	132586	3.28%	0.189%
23	11.092	1526	1531	1533	rBV3	61434	76409	1.89%	0.109%
24	11.116	1533	1535	1541	rVV3	67964	76634	1.90%	0.109%
25	11.169	1541	1544	1547	rVV	150915	134620	3.33%	0.192%
26	11.216	1547	1552	1555	rVV2	93993	114054	2.82%	0.162%
27	11.251	1555	1558	1564	rVB	172002	181014	4.48%	0.258%
28	11.357	1572	1576	1578	rBV	1292216	1180973	29.25%	1.681%
29	11.386	1578	1581	1584	rVV	2609623	2415631	59.83%	3.438%
30	11.433	1586	1589	1592	rVV	660147	573193	14.20%	0.816%
31	11.469	1592	1595	1601	rVB	149541	180622	4.47%	0.257%
32	11.586	1609	1615	1619	rBV2	368830	450673	11.16%	0.641%
33	11.616	1619	1620	1623	rVV2	88641	77715	1.92%	0.111%
34	11.645	1623	1625	1630	rVV3	105649	135254	3.35%	0.193%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080819\
Data File : BF116095.D
Acq On : 9 Aug 2019 3:51
Operator : HP/JU
Sample : K4192-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

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

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-BF073019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.692	1630	1633	1638	rVV3	69717	104002	2.58%	0.148%
36	11.745	1638	1642	1644	rVV5	28106	46733	1.16%	0.067%
37	11.857	1658	1661	1663	rBV	360645	320640	7.94%	0.456%
38	11.886	1663	1666	1672	rVV3	732741	751745	18.62%	1.070%
39	11.933	1672	1674	1677	rVV	157297	140171	3.47%	0.200%
40	11.969	1677	1680	1683	rVV	521023	608827	15.08%	0.867%
41	11.992	1683	1684	1689	rVB	271434	183509	4.55%	0.261%
42	12.051	1689	1694	1695	rBV3	64216	93177	2.31%	0.133%
43	12.151	1708	1711	1714	rVV	282667	250150	6.20%	0.356%
44	12.186	1714	1717	1721	rVB	382454	332569	8.24%	0.473%
45	12.304	1732	1737	1740	rBV2	103737	137507	3.41%	0.196%
46	12.333	1740	1742	1744	rVV	98243	79159	1.96%	0.113%
47	12.357	1744	1746	1749	rVB	77685	66996	1.66%	0.095%
48	12.410	1751	1755	1757	rBV	243768	238296	5.90%	0.339%
49	12.445	1757	1761	1763	rVV2	166922	213254	5.28%	0.304%
50	12.469	1763	1765	1767	rVB	82052	62973	1.56%	0.090%
51	12.504	1767	1771	1774	rBV2	277131	315437	7.81%	0.449%
52	12.580	1779	1784	1787	rVV	3579511	3752698	92.95%	5.341%
53	12.616	1787	1790	1792	rVV	77159	65241	1.62%	0.093%
54	12.639	1792	1794	1796	rVB	111782	87158	2.16%	0.124%
55	12.669	1796	1799	1802	rBV2	161535	169899	4.21%	0.242%
56	12.721	1804	1808	1812	rVV3	159762	208324	5.16%	0.297%
57	12.810	1816	1823	1827	rBV2	3212933	4037497	100.00%	5.747%
58	12.851	1827	1830	1833	rBV2	152695	152982	3.79%	0.218%
59	12.939	1839	1845	1848	rBV	2936435	2879526	71.32%	4.098%
60	12.963	1848	1849	1853	rVB	260008	214533	5.31%	0.305%
61	13.021	1854	1859	1862	rBV2	238357	376437	9.32%	0.536%
62	13.051	1862	1864	1866	rVB	85602	62328	1.54%	0.089%
63	13.110	1870	1874	1875	rBV2	254381	303199	7.51%	0.432%
64	13.127	1875	1877	1880	rVB	439867	410066	10.16%	0.584%
65	13.163	1880	1883	1886	rBV4	87977	113776	2.82%	0.162%
66	13.198	1886	1889	1891	rVV	232878	208263	5.16%	0.296%
67	13.233	1891	1895	1902	rVB3	387846	521346	12.91%	0.742%
68	13.286	1902	1904	1907	rVB2	71312	65664	1.63%	0.093%
69	13.327	1908	1911	1914	rBV	213221	199836	4.95%	0.284%
70	13.357	1914	1916	1919	rBV	222317	198378	4.91%	0.282%
71	13.510	1939	1942	1944	rBV	83504	103577	2.57%	0.147%

LSC Area Percent Report

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Acq On : 9 Aug 2019 3:51
Operator : HP/JU
Sample : K4192-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

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

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-BF073019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.551	1947	1949	1952	rVB2	91177	85763	2.12%	0.122%
73	13.645	1962	1965	1971	rVB	453691	458572	11.36%	0.653%
74	13.751	1979	1983	1985	rBV	575416	580404	14.38%	0.826%
75	13.774	1985	1987	1989	rVV	371562	312846	7.75%	0.445%
76	13.804	1989	1992	1995	rVV2	330723	433612	10.74%	0.617%
77	13.851	1995	2000	2003	rVB3	545450	777176	19.25%	1.106%
78	13.916	2009	2011	2014	rBV	110685	107146	2.65%	0.153%
79	13.968	2015	2020	2022	rBV	846332	977524	24.21%	1.391%
80	13.998	2022	2025	2028	rVV2	2030221	3002204	74.36%	4.273%
81	14.033	2028	2031	2034	rVB	2127283	1938649	48.02%	2.759%
82	14.110	2041	2044	2046	rVB	278564	213105	5.28%	0.303%
83	14.151	2049	2051	2053	rBV2	149300	144840	3.59%	0.206%
84	14.227	2060	2064	2068	rVB2	208649	274705	6.80%	0.391%
85	14.351	2083	2085	2087	rBV2	182721	172713	4.28%	0.246%
86	14.386	2089	2091	2094	rVB	343320	313354	7.76%	0.446%
87	14.421	2095	2097	2098	rBV	146981	116412	2.88%	0.166%
88	14.515	2110	2113	2115	rBV2	192451	187028	4.63%	0.266%
89	14.710	2143	2146	2153	rBV4	159483	251634	6.23%	0.358%
90	14.886	2173	2176	2183	rBV2	258104	425700	10.54%	0.606%
91	15.051	2198	2204	2207	rBV	1945884	3277337	81.17%	4.665%
92	15.151	2219	2221	2227	rVB	314775	367102	9.09%	0.523%
93	15.351	2250	2255	2261	rVB	1199806	1551953	38.44%	2.209%
94	15.415	2261	2266	2271	rVV	1353541	1763078	43.67%	2.509%
95	15.468	2271	2275	2278	rVV	615497	841504	20.84%	1.198%
96	15.504	2278	2281	2288	rVB2	419582	593231	14.69%	0.844%
97	15.892	2344	2347	2354	rVB2	219266	325659	8.07%	0.464%
98	16.945	2520	2526	2535	rVB	707362	1411337	34.96%	2.009%
99	17.392	2596	2602	2612	rVB	539849	1147820	28.43%	1.634%
100	17.698	2649	2654	2661	rVB	284202	609516	15.10%	0.868%

Sum of corrected areas: 70258361

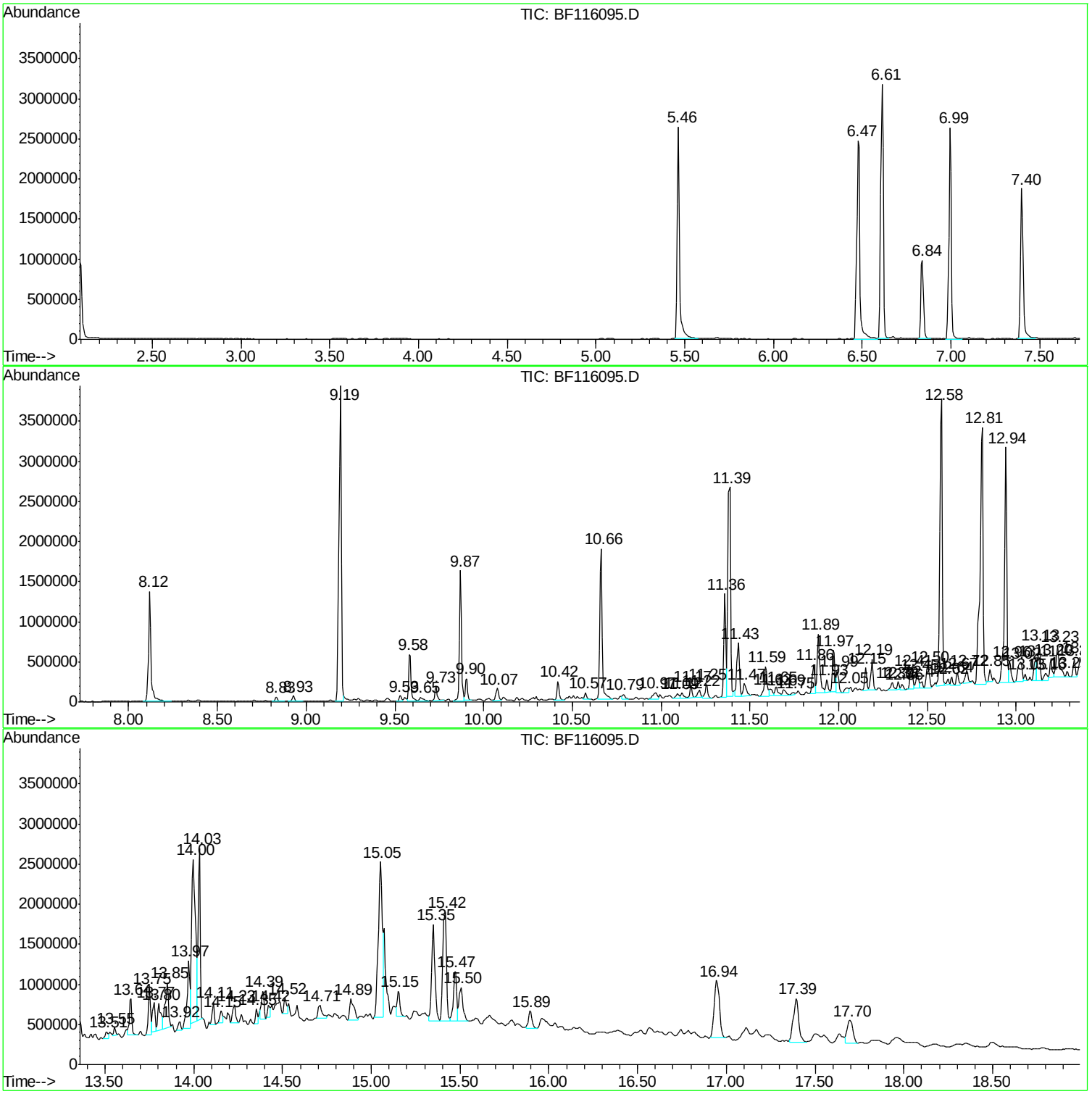
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080819\
Data File : BF116095.D
Acq On : 9 Aug 2019 3:51
Operator : HP/JU
Sample : K4192-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

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

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

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080819\
Data File : BF116095.D
Acq On : 9 Aug 2019 3:51
Operator : HP/JU
Sample : K4192-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

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

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

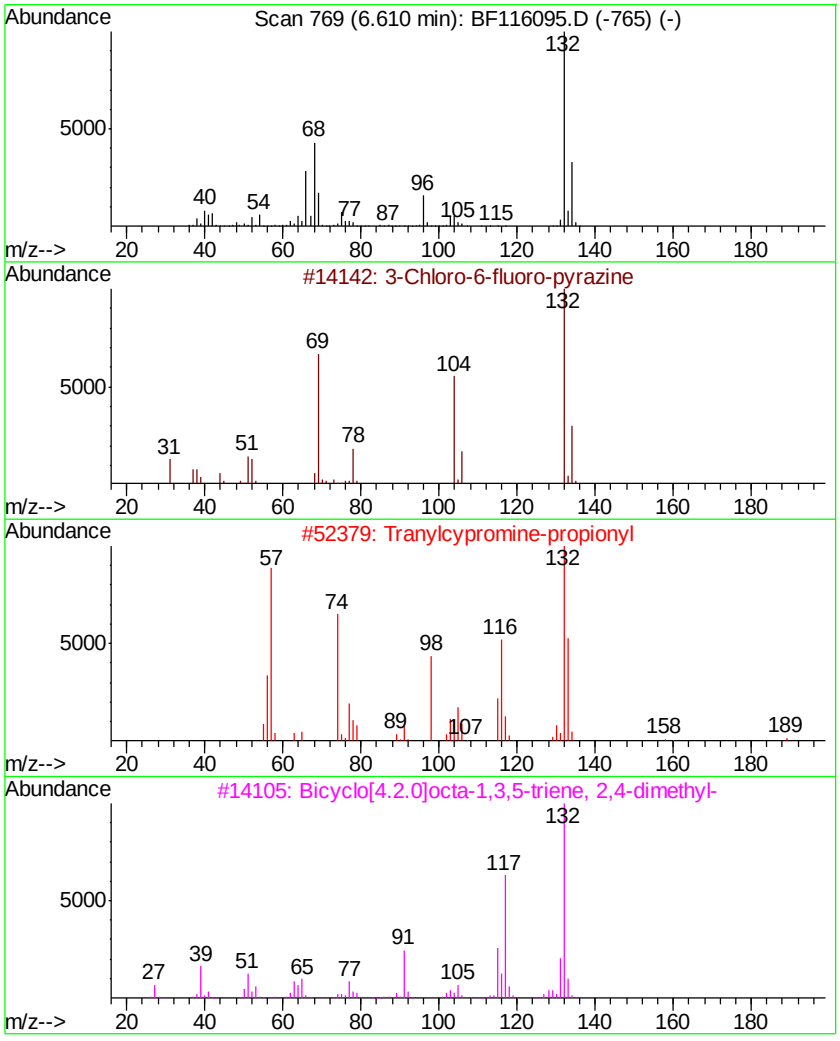
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

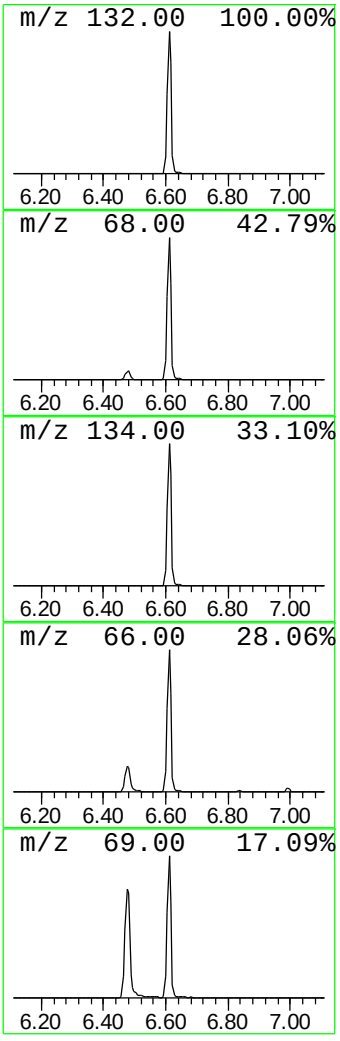
****

Peak Number 1 unknown6.61 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.61	62.94 ng	2922090	1,4-Dichlorobenzene-d4	6.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
3	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
4	Benzene, 1-ethenyl-3,5-dimethyl-	132	C10H12	005379-20-4	9
5	Xenon	132	Xe	007440-63-3	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080819\
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Acq On : 9 Aug 2019 3:51
Operator : HP/JU
Sample : K4192-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

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

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

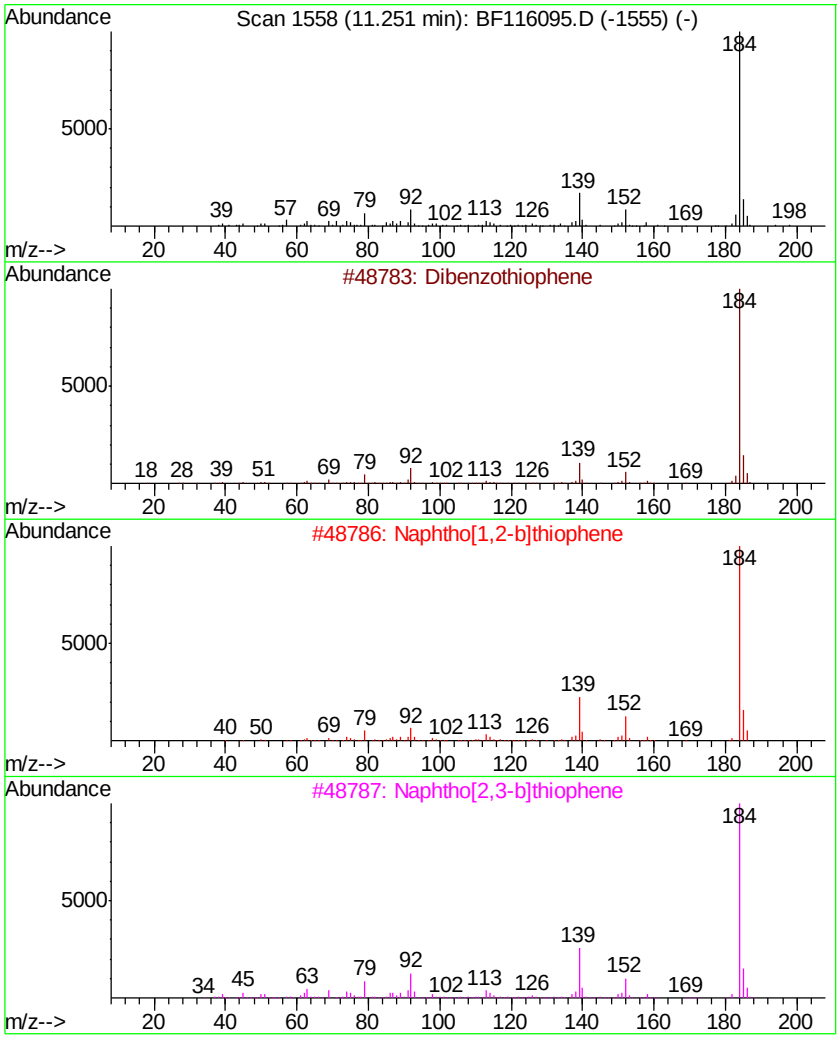
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

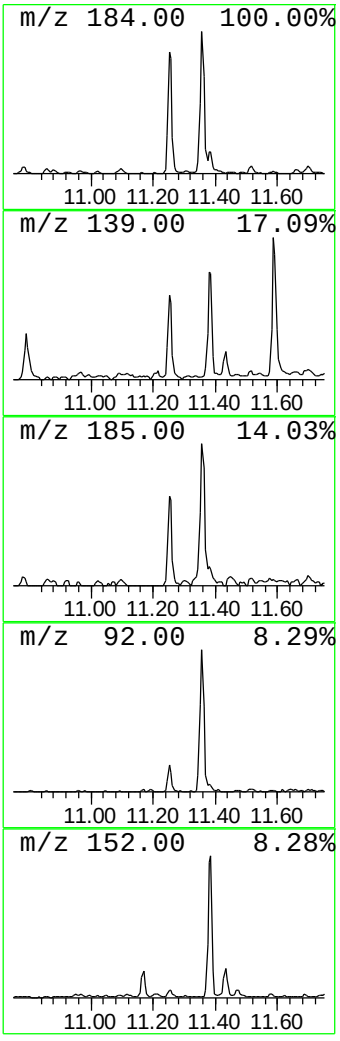
****

Peak Number 3 Dibenzothiophene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.25	3.07 ng	181014	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	95
2	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
4	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	93
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080819\
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Operator : HP/JU
Sample : K4192-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

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

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

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

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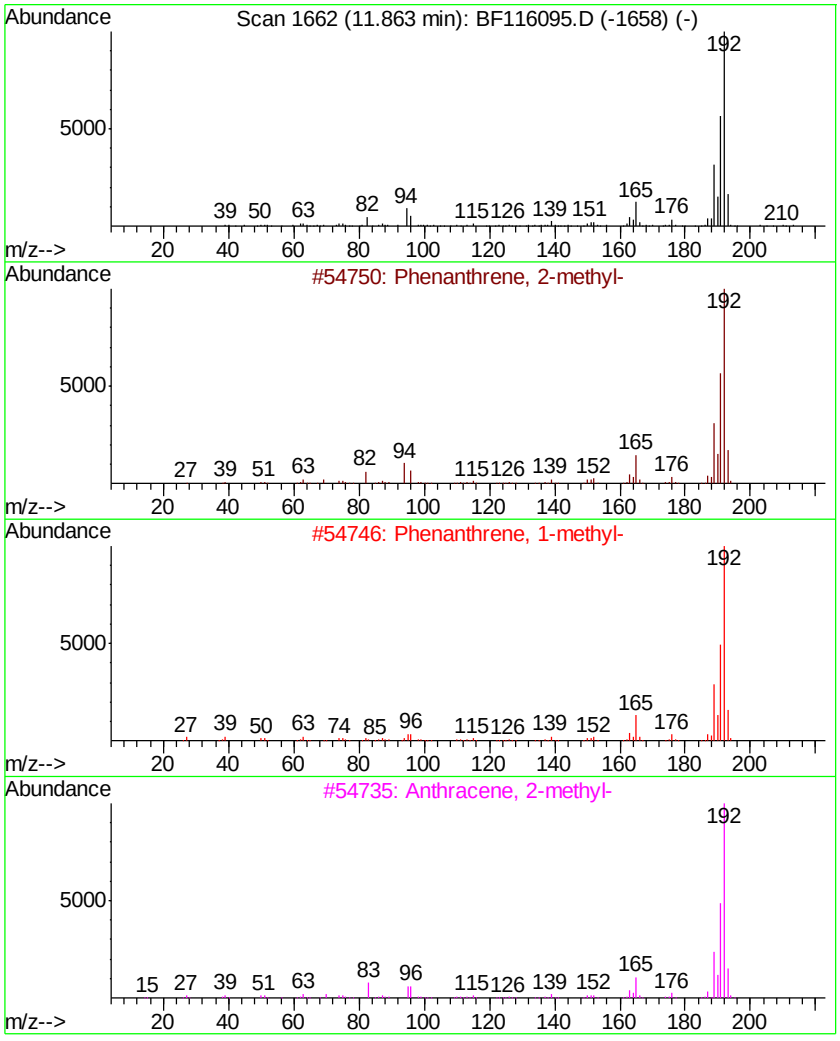
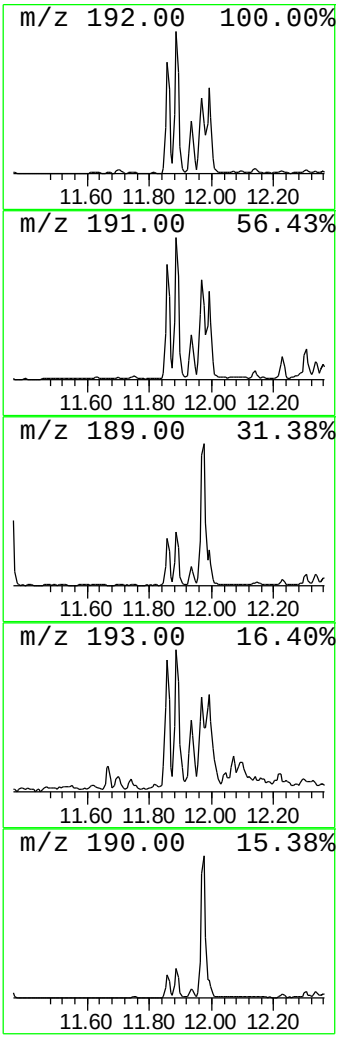
Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.86	5.43 ng	320640	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	94





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080819\
Data File : BF116095.D
Acq On : 9 Aug 2019 3:51
Operator : HP/JU
Sample : K4192-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

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

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

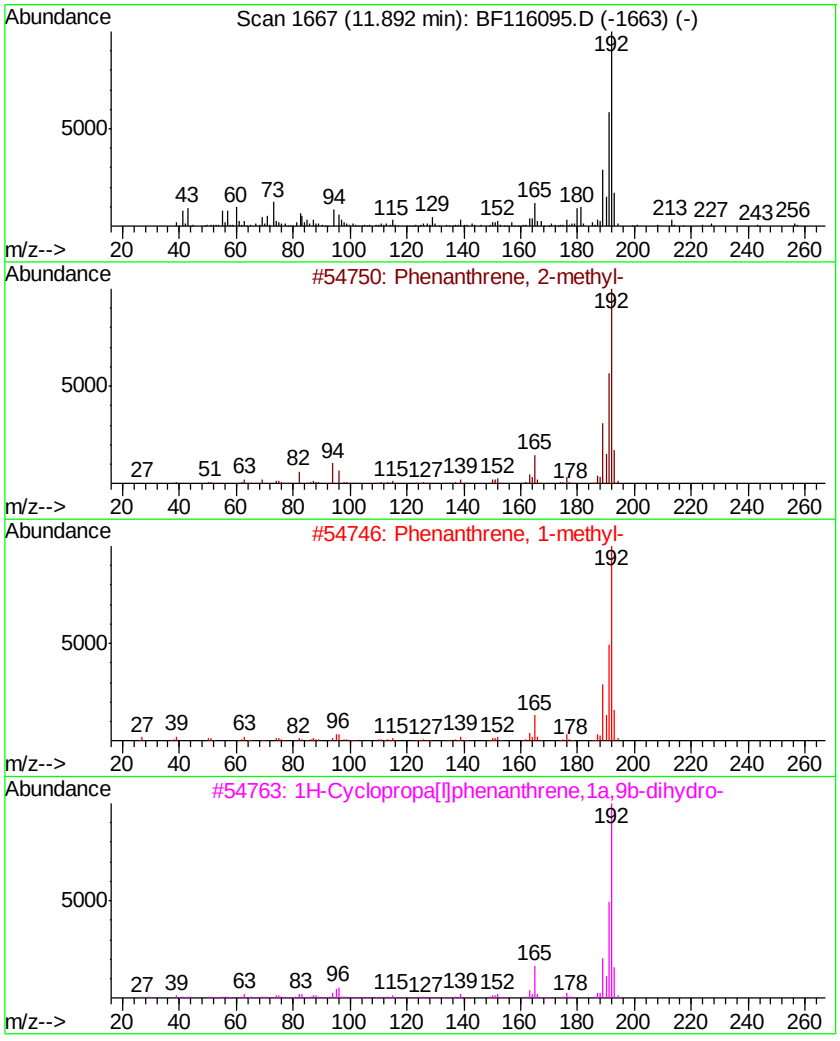
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

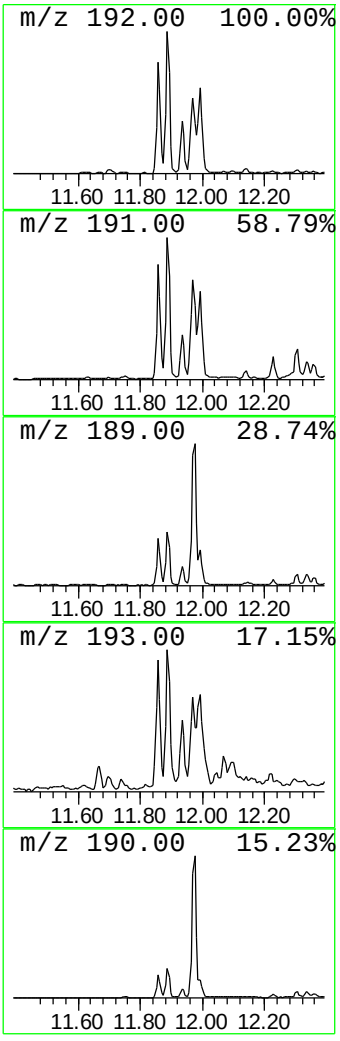
****

Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	12.73 ng	751745	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080819\
Data File : BF116095.D
Acq On : 9 Aug 2019 3:51
Operator : HP/JU
Sample : K4192-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

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

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

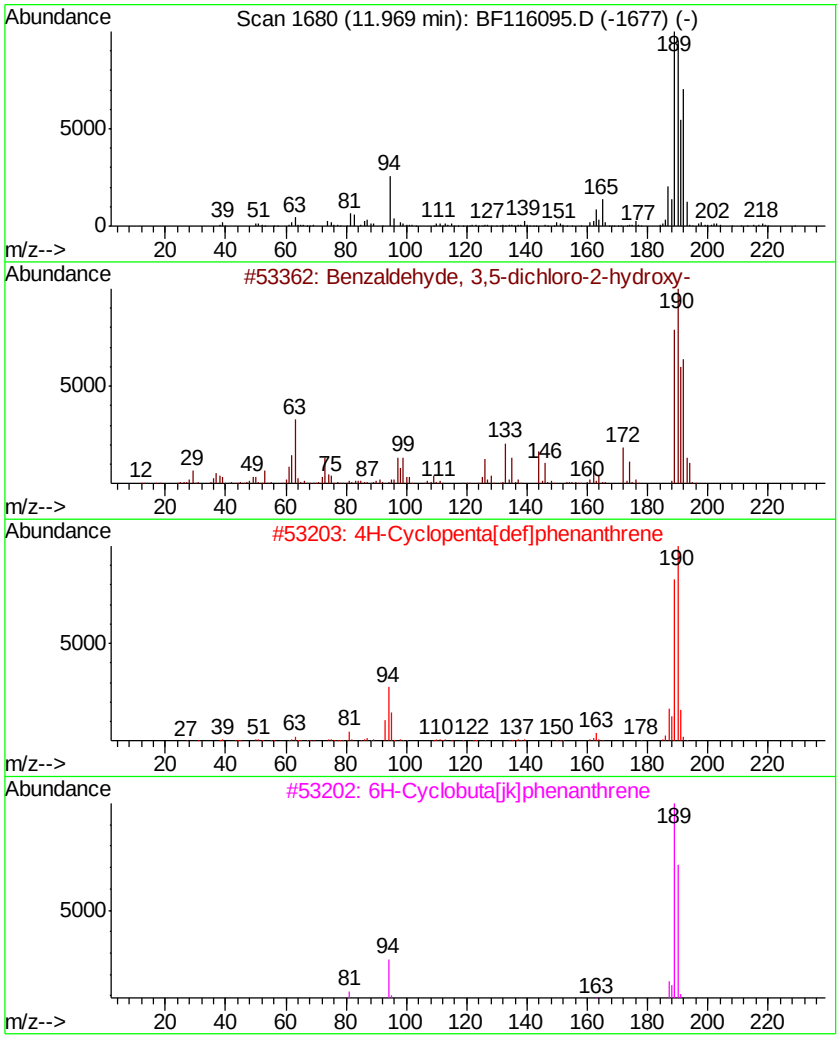
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

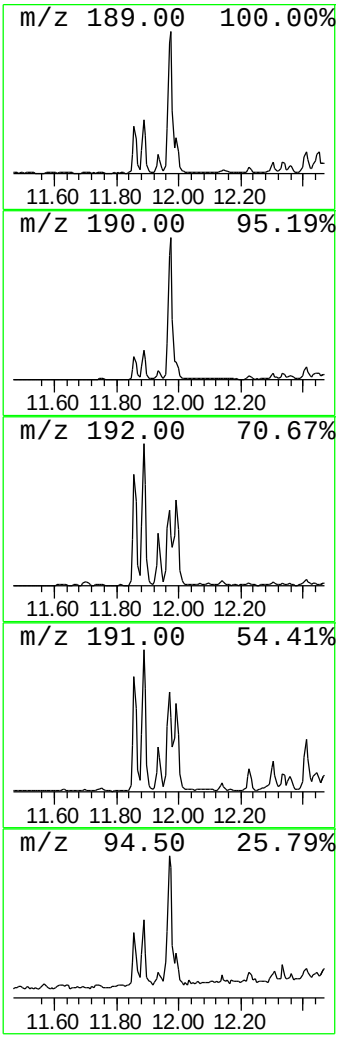
****

Peak Number 6 Benzaldehyde, 3,5-dichloro-... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	10.31 ng	608827	Phenanthrene-d10	11.36

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	70
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	58
4	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	38
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	35





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Operator : HP/JU
Sample : K4192-04
Misc :
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Instrument : BNA_F
ClientSampleId : TRIPLE-BARREL-BC-EAST

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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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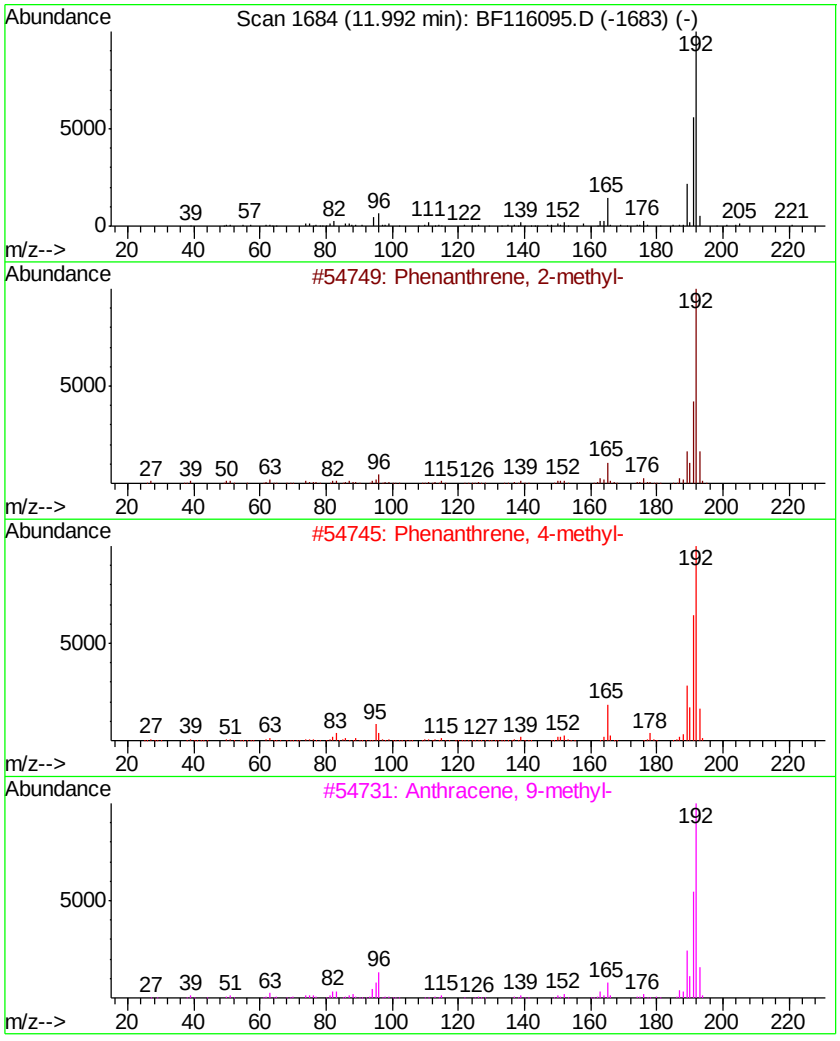
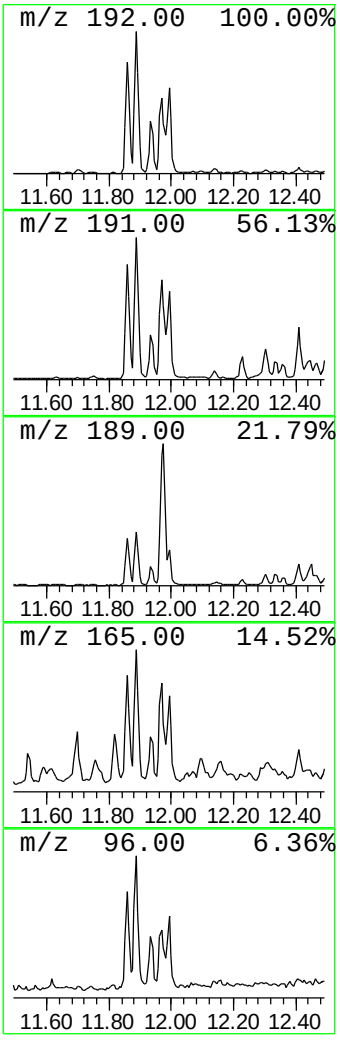
Peak Number 7 Phenanthrene, 4-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	3.11 ng	183509	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	68
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	68
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	64
4	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	64
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	64





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ClientSampleId : TRIPLE-BARREL-BC-EAST

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

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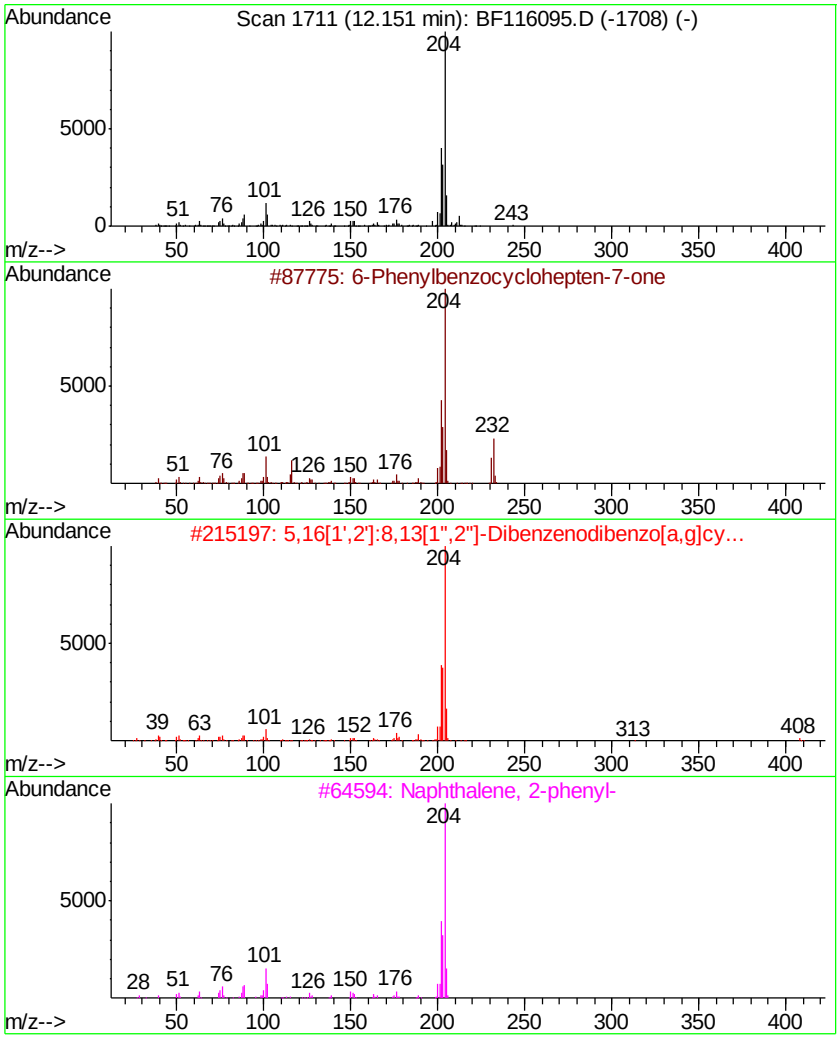
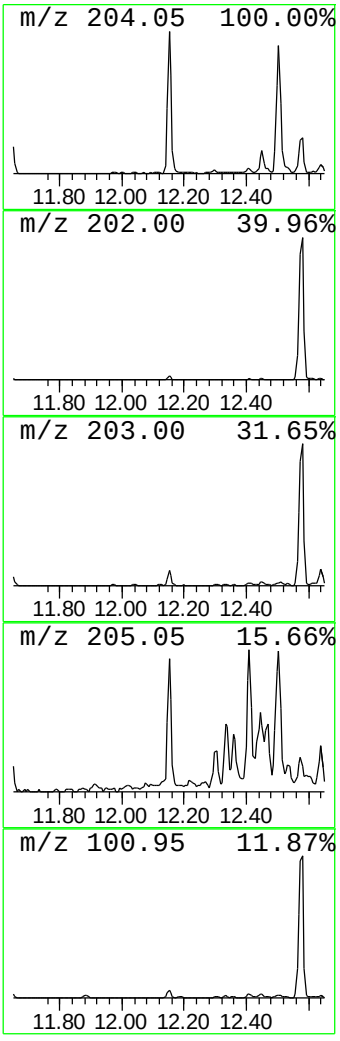
Peak Number 8 6-Phenylbenzocyclohepten-7-one Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.15	4.24 ng	250150	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	90
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	58
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	53





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ClientSampleId : TRIPLE-BARREL-BC-EAST

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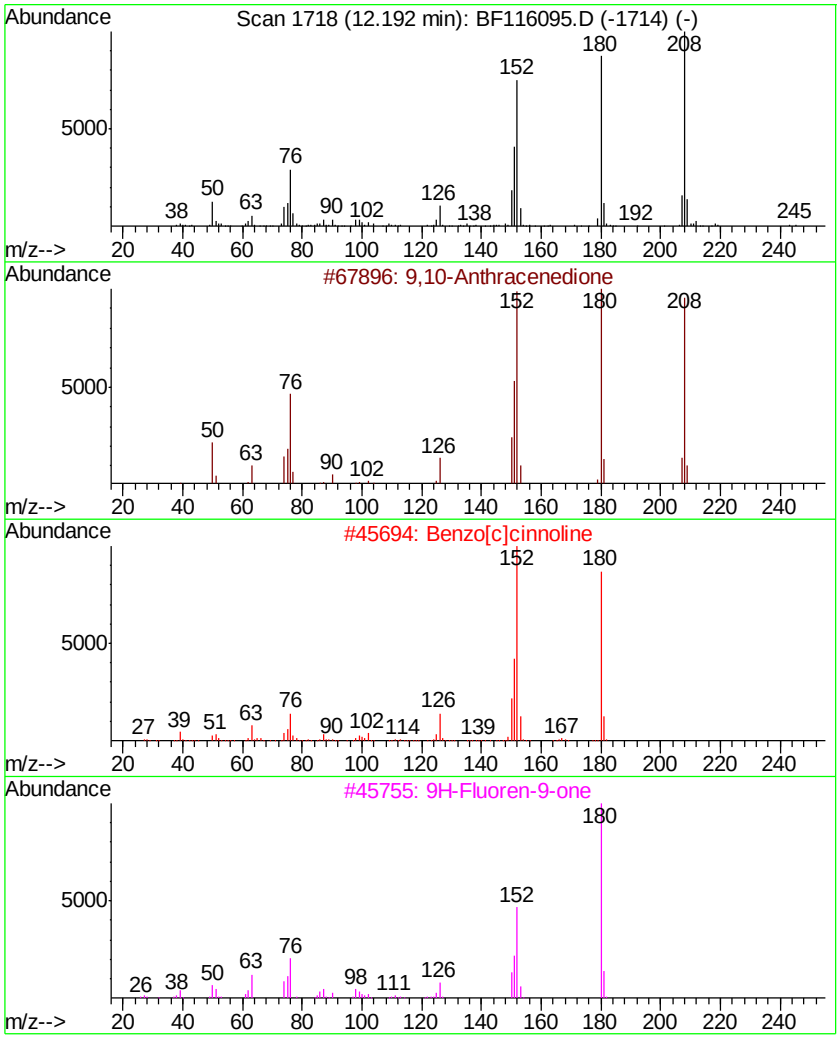
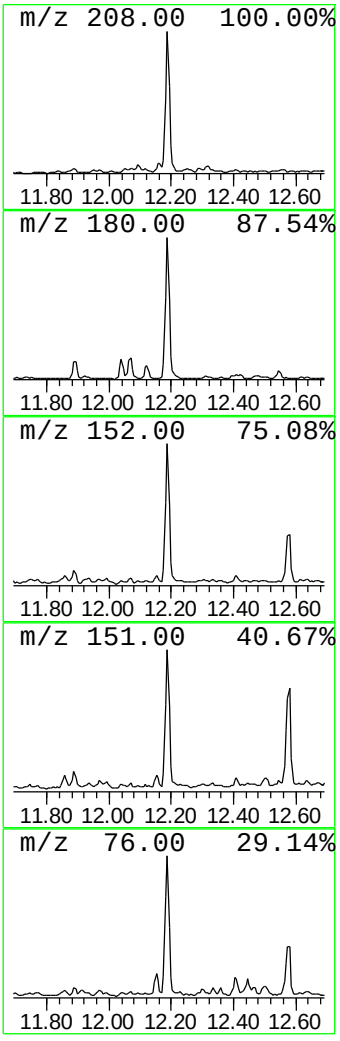
Peak Number 9 9,10-Anthracenedione Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.19	5.63 ng	332569	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	70
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	70
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	60
5	1,4-Anthracenedione	208	C14H8O2	000635-12-1	53





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ClientSampleId : TRIPLE-BARREL-BC-EAST

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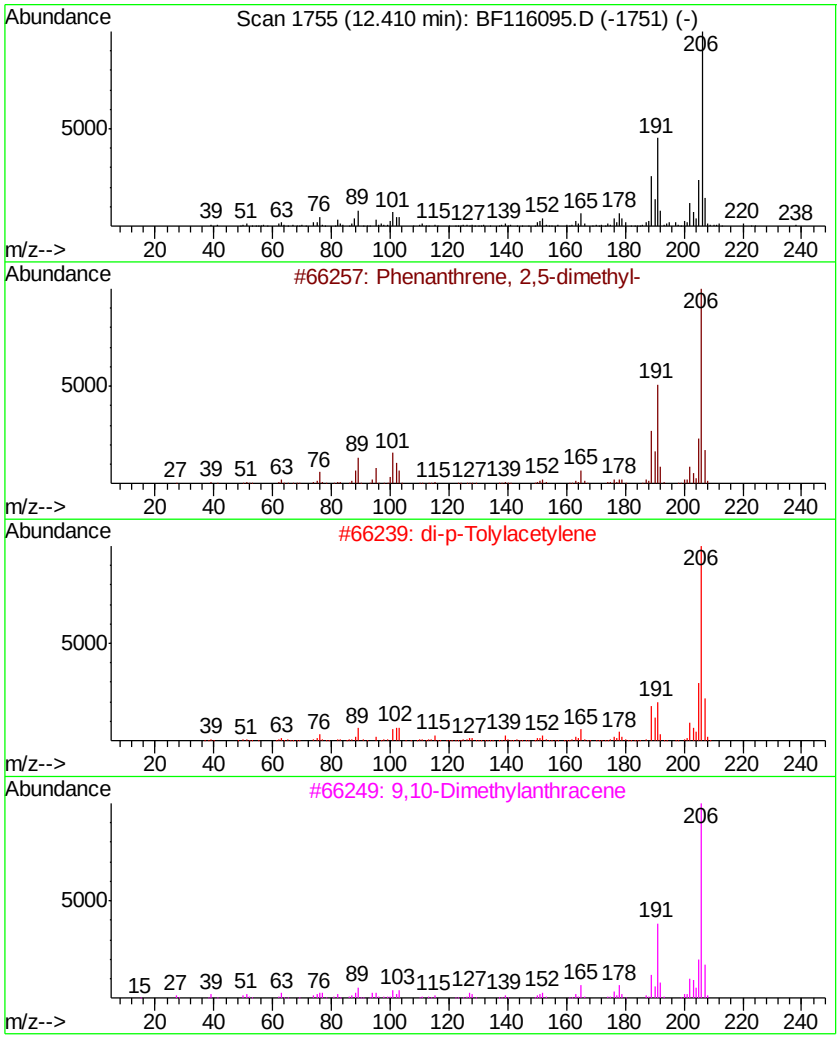
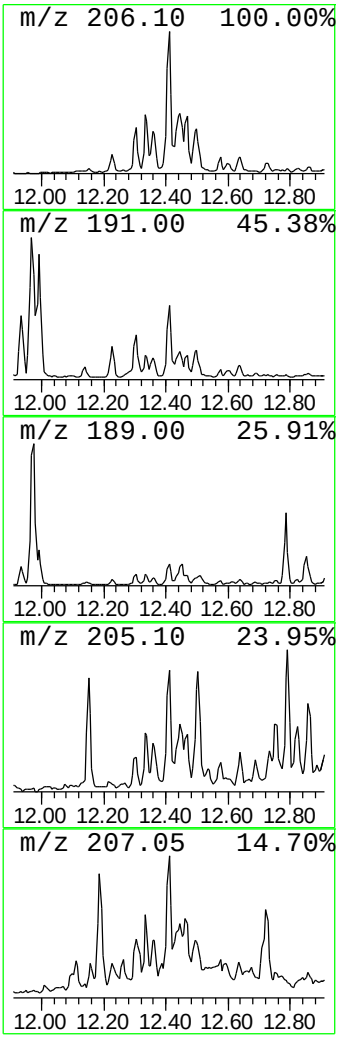
Peak Number 10 Phenanthrene, 2,5-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.41	4.04 ng	238296	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	93
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	89
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87





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

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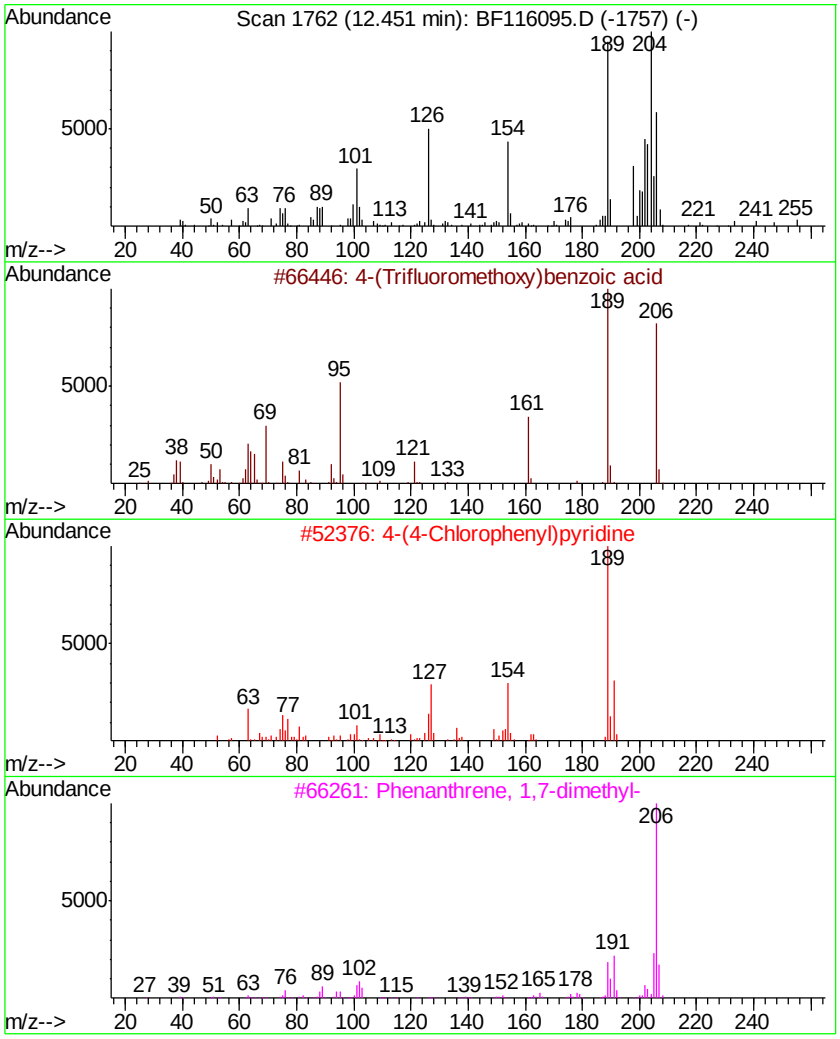
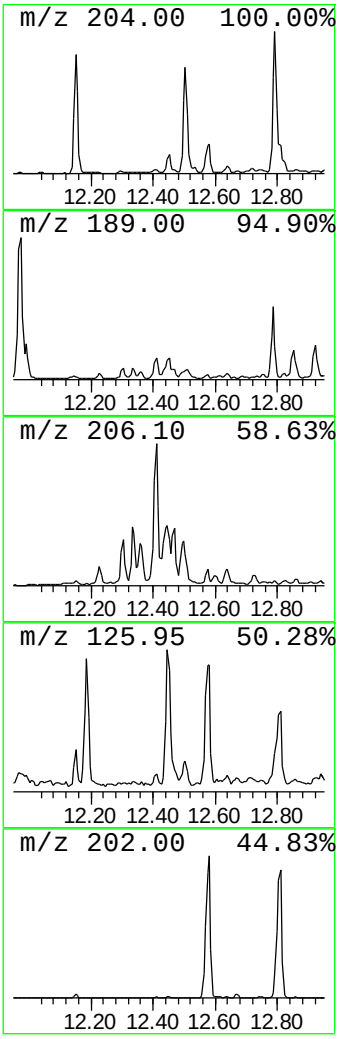
Peak Number 11 unknown12.45 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.45	3.61 ng	213254	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-(Trifluoromethoxy)benzoic acid	206	C8H5F3O3	000330-12-1	30
2	4-(4-Chlorophenyl)pyridine	189	C11H8ClN	005957-96-0	25
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	25
4	Naphthalic anhydride	198	C12H6O3	000081-84-5	25
5	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	25





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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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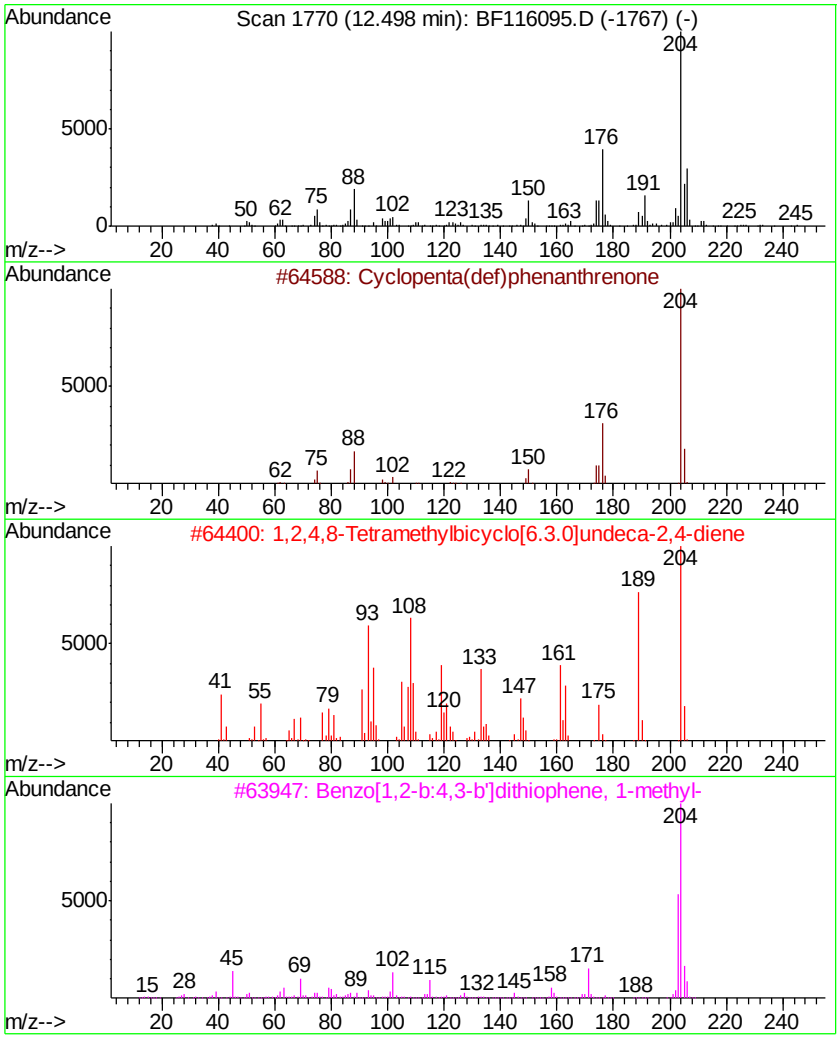
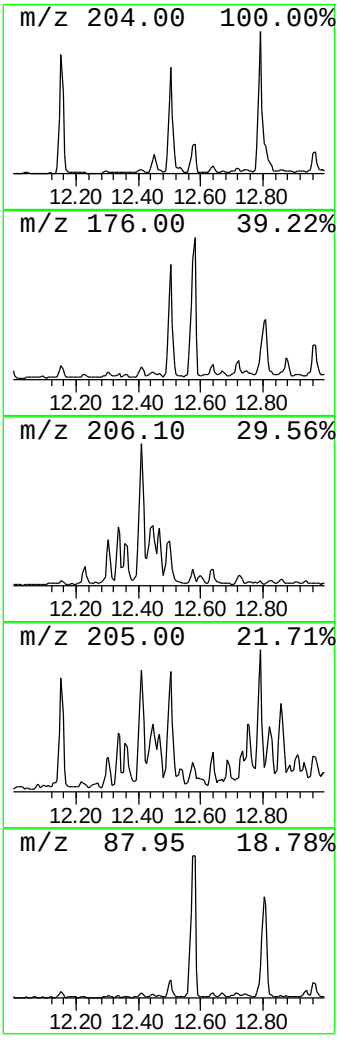
Peak Number 12 Cyclopenta(def)phenanthrenone Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.50	5.34 ng	315437	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	49
3	Benzo[1,2-b:4,3-b']dithiophene, ...	204	C11H8S2	013640-86-3	49
4	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	47
5	Ethyl 2,3,4,6-tetrakis-O-(trimet...	496	C20H48O6Si4	1000365-90-0	47





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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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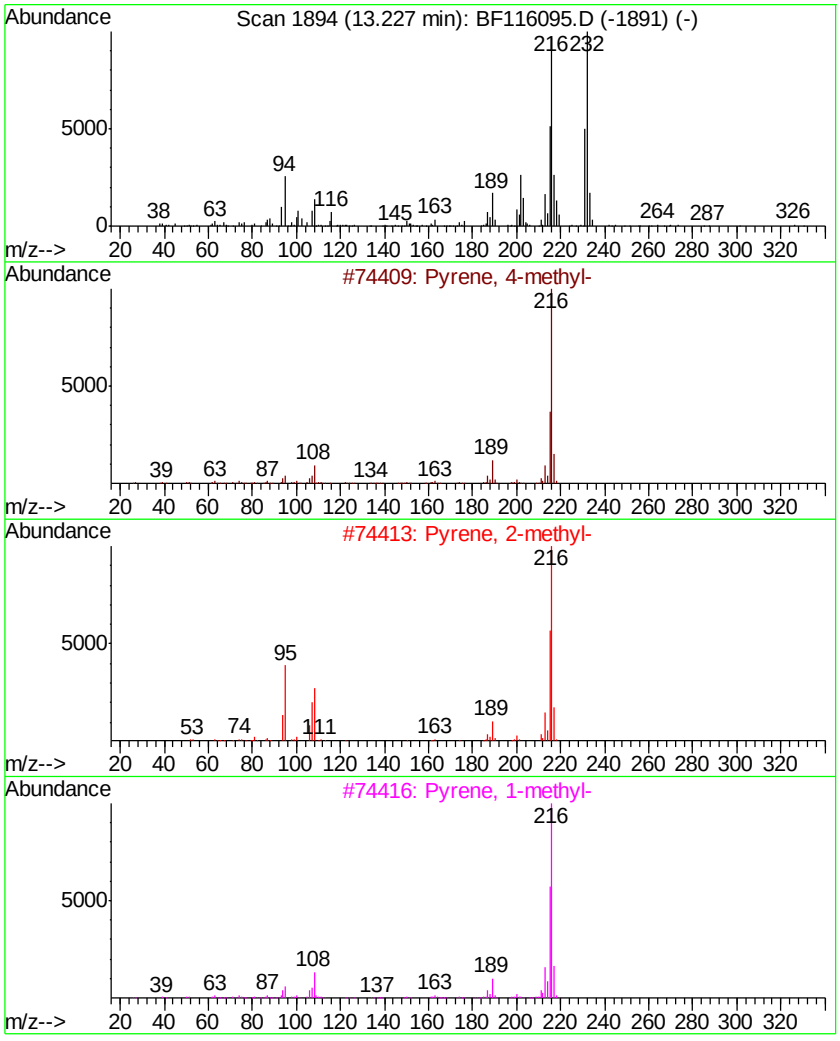
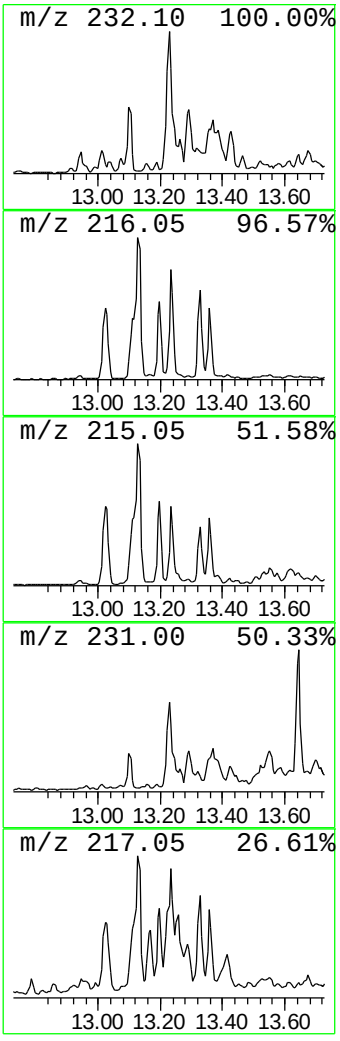
Peak Number 13 Pyrene, 4-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.23	3.47 ng	521346	Chrysene-d12	14.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4-methyl-	216	C17H12	003353-12-6	95
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	86
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81





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ClientSampleId : TRIPLE-BARREL-BC-EAST

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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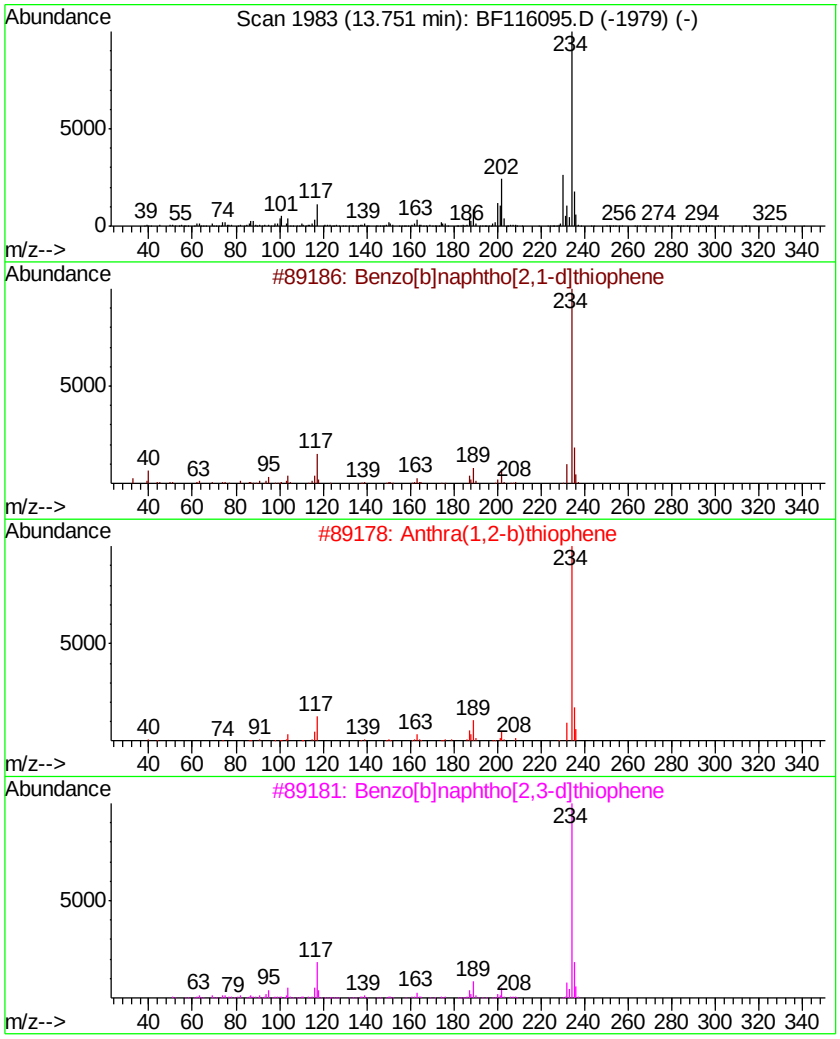
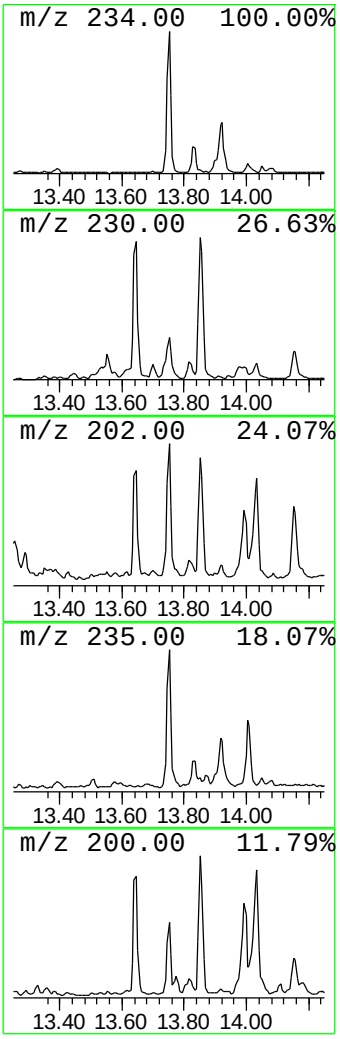
Peak Number 14 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.75	3.87 ng	580404	Chrysene-d12	14.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	83
2	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	64
3	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	58
4	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	53
5	2-Amino-6-t-butyl-3-cyano-4,5,6,...	234	C13H18N2S	042159-76-2	46





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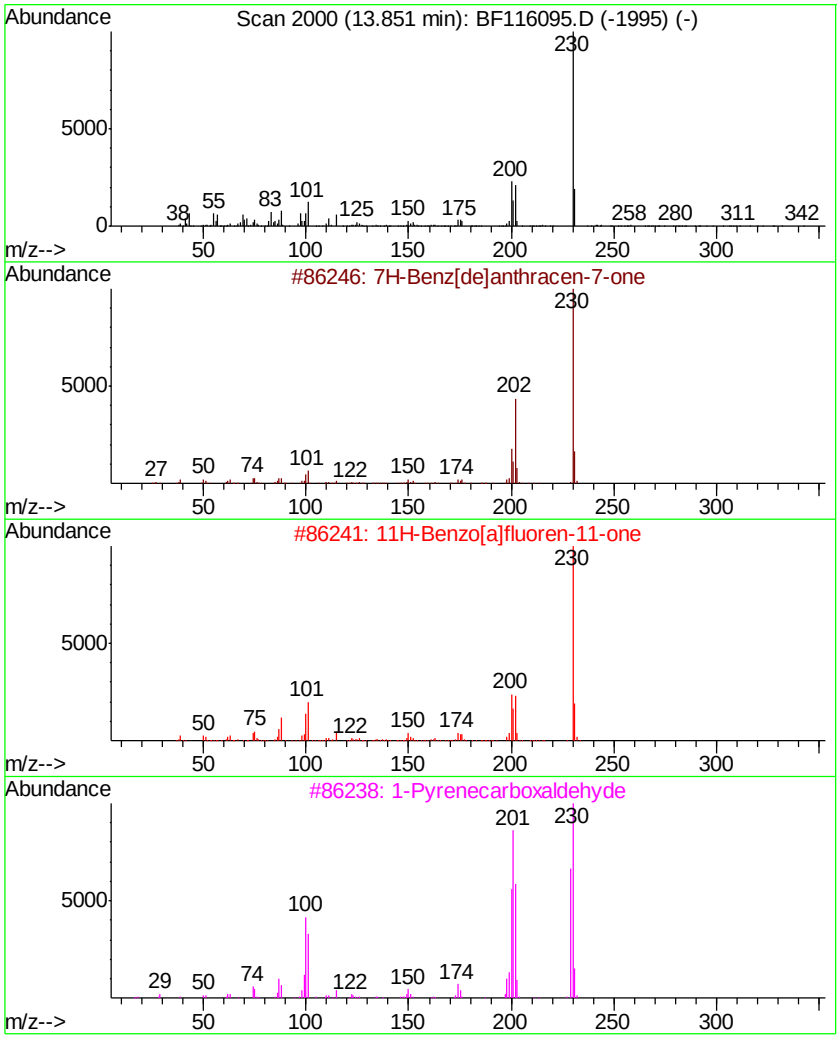
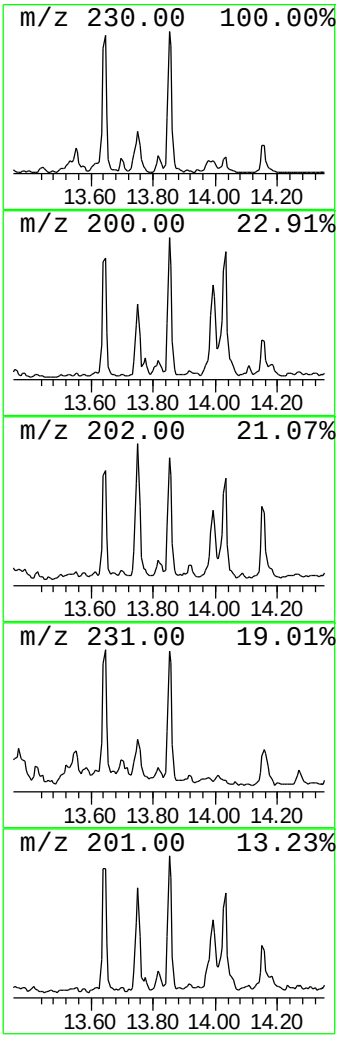
Peak Number 15 7H-Benz[de]anthracen-7-one Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.85	5.18 ng	777176	Chrysene-d12	14.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
2	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	83
3	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	64
4	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	58
5	9-Chloro-1-phenazinol	230	C12H7ClN2O	091268-03-0	53





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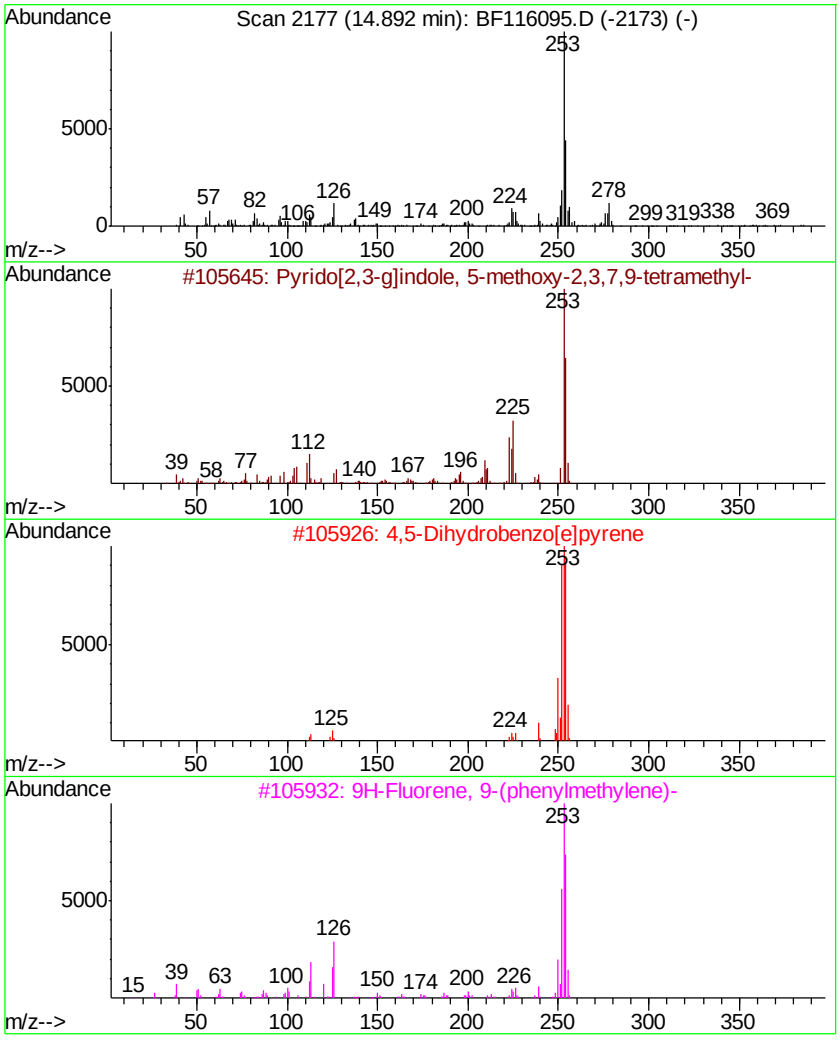
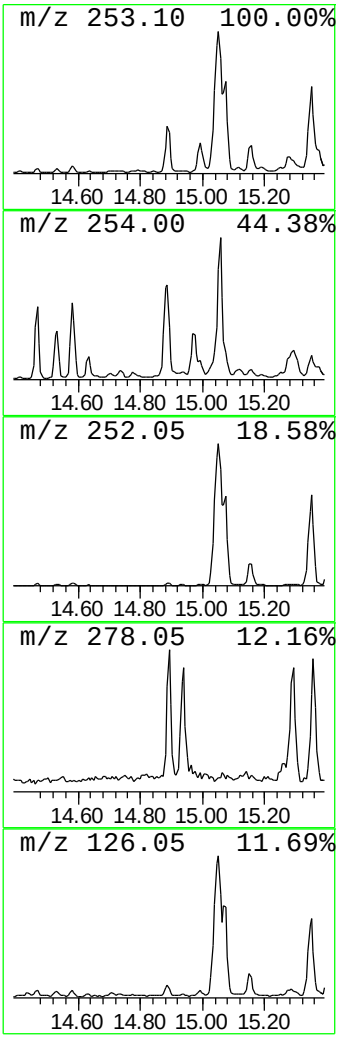
Peak Number 16 Pyrido[2,3-g]indole, 5-meth... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.89	10.12 ng	425700	Perylene-d12	15.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrido[2,3-g]indole, 5-methoxy-2...	254	C16H18N2O	201991-45-9	72
2	4,5-Dihydrobenzo[e]pyrene	254	C20H14	095676-42-9	72
3	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	72
4	4,6'-Biazulenyl	254	C20H14	094154-49-1	68
5	1,1'-Binaphthalene	254	C20H14	000604-53-5	68





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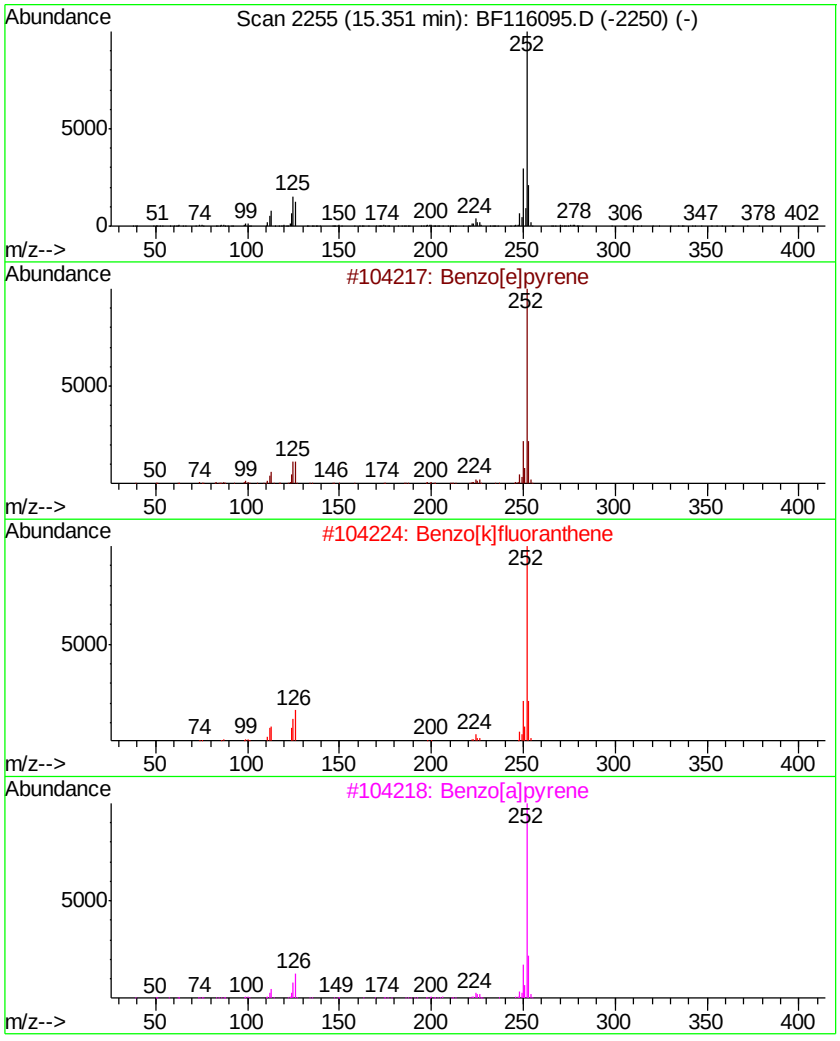
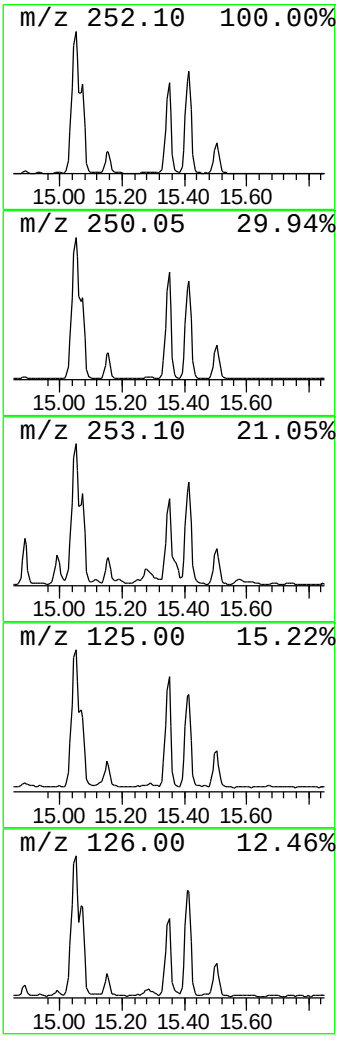
Peak Number 18 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.35	36.89 ng	1551950	Perylene-d12	15.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	97
3	Benzo[a]pyrene	252	C20H12	000050-32-8	96
4	Perylene	252	C20H12	000198-55-0	96
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95





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Acq On : 9 Aug 2019 3:51
Operator : HP/JU
Sample : K4192-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

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

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

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

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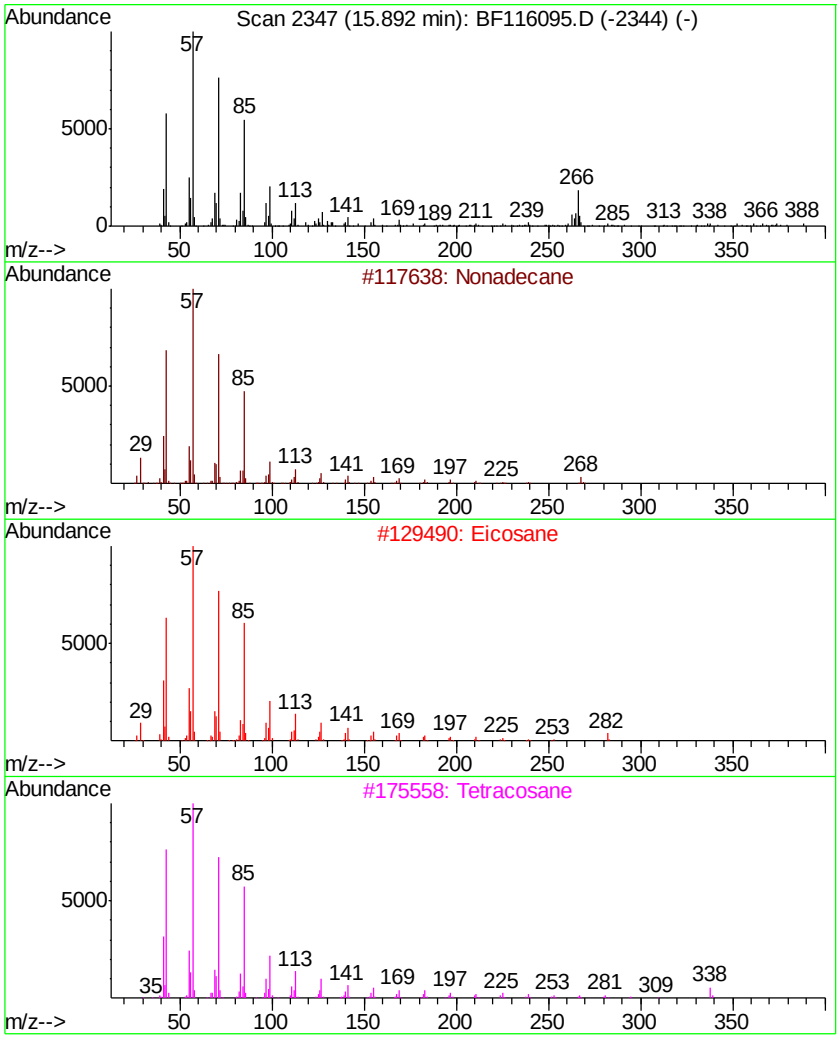
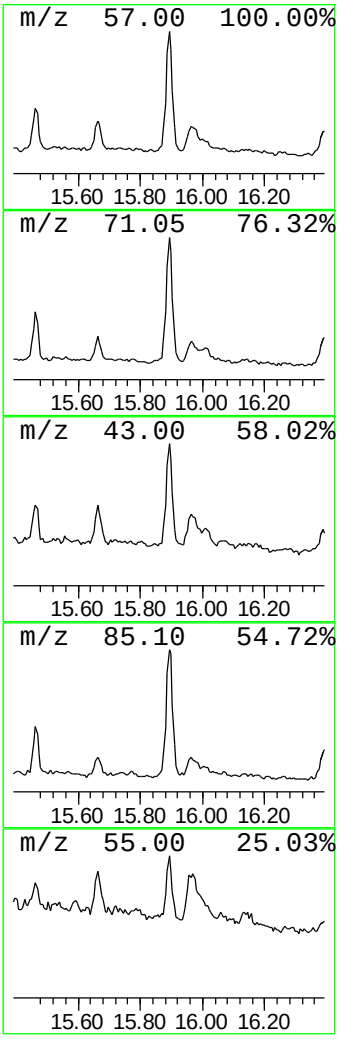
Peak Number 19 Nonadecane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.89	7.74 ng	325659	Perylene-d12	15.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	93
2	Eicosane	282	C20H42	000112-95-8	91
3	Tetracosane	338	C24H50	000646-31-1	91
4	Heneicosane	296	C21H44	000629-94-7	87
5	Heptadecane	240	C17H36	000629-78-7	87





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080819\
Data File : BF116095.D
Acq On : 9 Aug 2019 3:51
Operator : HP/JU
Sample : K4192-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

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

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

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

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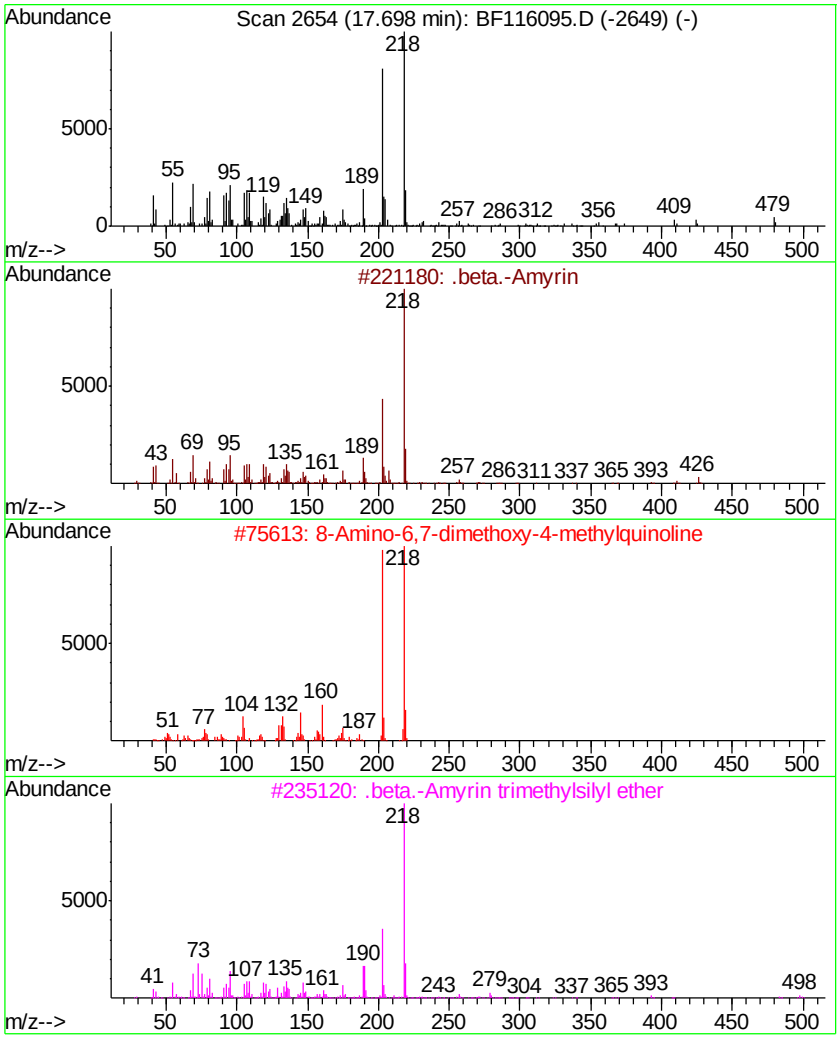
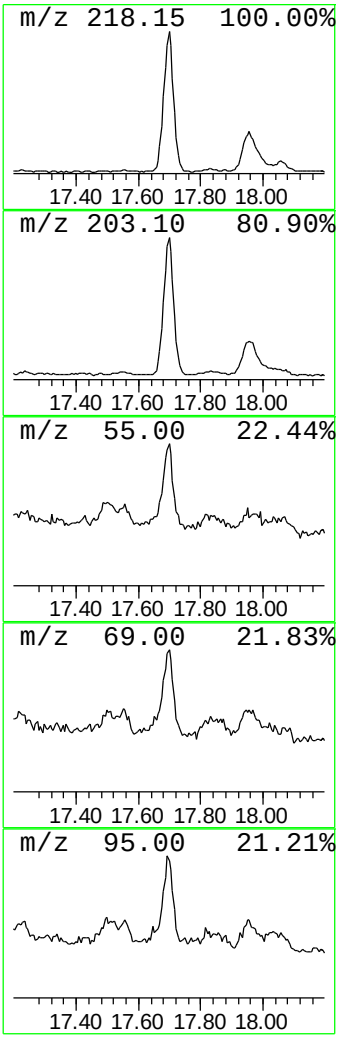
Peak Number 20 .beta.-Amyrin Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.70	14.49 ng	609516	Perylene-d12	15.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-Amyrin	426	C30H50O	000559-70-6	62
2	8-Amino-6,7-dimethoxy-4-methylqu...	218	C12H14N2O2	1000213-07-2	53
3	.beta.-Amyrin trimethylsilyl ether	498	C33H58OSi	001721-67-1	49
4	(1S,6R,9S)-5,5,9,10-Tetramethylt...	218	C16H26	1000298-97-8	46
5	Pyrene, hexadecahydro-	218	C16H26	002435-85-0	43





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF080819\
Data File : BF116095.D
Acq On : 9 Aug 2019 3:51
Operator : HP/JU
Sample : K4192-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

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

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

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown6.61	6.61	62.9	ng	2922090	1	6.84	928600	20.0
Dibenzothiophene	11.25	3.1	ng	181014	4	11.36	1180970	20.0
Phenanthrene, 2-m...	11.86	5.4	ng	320640	4	11.36	1180970	20.0
Phenanthrene, 1-m...	11.89	12.7	ng	751745	4	11.36	1180970	20.0
Benzaldehyde, 3,5...	11.97	10.3	ng	608827	4	11.36	1180970	20.0
Phenanthrene, 4-m...	11.99	3.1	ng	183509	4	11.36	1180970	20.0
6-Phenylbenzocycl...	12.15	4.2	ng	250150	4	11.36	1180970	20.0
9,10-Anthracenedione	12.19	5.6	ng	332569	4	11.36	1180970	20.0
Phenanthrene, 2,5...	12.41	4.0	ng	238296	4	11.36	1180970	20.0
unknown12.45	12.45	3.6	ng	213254	4	11.36	1180970	20.0
Cyclopenta(def)ph...	12.50	5.3	ng	315437	4	11.36	1180970	20.0
Pyrene, 4-methyl-	13.23	3.5	ng	521346	5	14.00	3002200	20.0
Benzo[b]naphtho[2...	13.75	3.9	ng	580404	5	14.00	3002200	20.0
7H-Benz[de]anthra...	13.85	5.2	ng	777176	5	14.00	3002200	20.0
Pyrido[2,3-g]indo...	14.89	10.1	ng	425700	6	15.47	841504	20.0
Benzo[e]pyrene	15.35	36.9	ng	1551950	6	15.47	841504	20.0
Nonadecane	15.89	7.7	ng	325659	6	15.47	841504	20.0
.beta.-Amyrin	17.70	14.5	ng	609516	6	15.47	841504	20.0