LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118418.D
Acq On : 31 Dec 2019 21:16
Operator : JU
Sample : K6465-02 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GP-11-(5-6)

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-BF122419.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	5.475	573	576	599	rBV	144468	204915	3.22%	0.330%
2	6.492	746	749	764	rBV	153696	235158	3.70%	0.378%
3	6.628	768	772	784	rVV	274105	266906	4.20%	0.430%
4	6.851	807	810	818	rBV	405739	345706	5.44%	0.556%
5	7.010	833	837	850	rBV	233544	225586	3.55%	0.363%
6	7.422	904	907	919	rBV	126051	159980	2.52%	0.257%
7	8.139	1026	1029	1031	rBV	535073	482728	7.60%	0.777%
8	8.163	1031	1033	1039	rVB	1447184	1120287	17.63%	1.803%
9	8.857	1148	1151	1158	rBV	430352	381647	6.00%	0.614%
10	8.957	1164	1168	1178	rVB	300543	283971	4.47%	0.457%
11	9.216	1209	1212	1222	rVB	410234	332112	5.23%	0.535%
12	9.322	1227	1230	1236	rBV	157324	139321	2.19%	0.224%
13	9.486	1253	1258	1262	rBV2	129696	175474	2.76%	0.282%
14	9.557	1266	1270	1273	rBV	219006	231219	3.64%	0.372%
15	9.674	1285	1290	1296	rBV	113085	138843	2.18%	0.223%
16	9.904	1322	1329	1331	rBV2	642884	652450	10.27%	1.050%
17	9.933	1331	1334	1338	rVB	1041544	880330	13.85%	1.417%
18	10.057	1351	1355	1359	rVV2	192504	195632	3.08%	0.315%
19	10.110	1359	1364	1367	rVV	705191	662756	10.43%	1.067%
20	10.451	1418	1422	1427	rBV	1161680	1133363	17.83%	1.824%
21	10.504	1427	1431	1432	rVV	151583	156133	2.46%	0.251%
22	10.516	1432	1433	1435	rVV	226536	192409	3.03%	0.310%
23	10.539	1435	1437	1439	rVV	284303	233338	3.67%	0.376%
24	10.586	1443	1445	1447	rVV	143840	152365	2.40%	0.245%
25	10.610	1447	1449	1453	rVB	217438	212692	3.35%	0.342%
26	10.698	1460	1464	1470	rBV2	326956	432593	6.81%	0.696%
27	11.004	1509	1516	1518	rBV2	317708	426773	6.71%	0.687%
28	11.033	1518	1521	1524	rVV2	273456	276632	4.35%	0.445%
29	11.086	1527	1530	1533	rVB	198085	175332	2.76%	0.282%
30	11.151	1539	1541	1545	rVV3	124744	136665	2.15%	0.220%
31	11.251	1553	1558	1562	rBV2	196930	251271	3.95%	0.404%
32	11.292	1562	1565	1577	rVB	563821	533134	8.39%	0.858%
33	11.398	1580	1583	1585	rBV	504897	566169	8.91%	0.911%
34	11.433	1585	1589	1592	rVV	5510465	6355730	100.00%	10.229%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118418.D
Acq On : 31 Dec 2019 21:16
Operator : JU
Sample : K6465-02 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GP-11-(5-6)

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-BF122419.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.480	1592	1597	1600	rVV	2232615	1757762	27.66%	2.829%
36	11.510	1600	1602	1605	rVV	158488	181058	2.85%	0.291%
37	11.633	1619	1623	1630	rBV	536246	589979	9.28%	0.950%
38	11.733	1635	1640	1645	rVB4	159928	226888	3.57%	0.365%
39	11.816	1650	1654	1658	rVB	115715	149244	2.35%	0.240%
40	11.904	1665	1669	1671	rBV	1181140	981399	15.44%	1.579%
41	11.933	1671	1674	1677	rVB	1406259	1131202	17.80%	1.821%
42	11.980	1677	1682	1685	rBV	512267	482152	7.59%	0.776%
43	12.016	1685	1688	1691	rBV2	1390332	1645873	25.90%	2.649%
44	12.039	1691	1692	1697	rVB	848643	544287	8.56%	0.876%
45	12.198	1715	1719	1722	rVV	580308	520824	8.19%	0.838%
46	12.233	1723	1725	1729	rVB	270729	249384	3.92%	0.401%
47	12.274	1729	1732	1735	rBV	153984	141277	2.22%	0.227%
48	12.345	1739	1744	1747	rBV2	310897	353230	5.56%	0.568%
49	12.380	1747	1750	1752	rVV	232795	170719	2.69%	0.275%
50	12.404	1752	1754	1757	rVB	192810	161469	2.54%	0.260%
51	12.457	1759	1763	1766	rBV	646406	674228	10.61%	1.085%
52	12.498	1766	1770	1772	rVV2	340387	473512	7.45%	0.762%
53	12.551	1775	1779	1783	rBV3	216206	337602	5.31%	0.543%
54	12.633	1787	1793	1796	rBV	4558595	4561802	71.77%	7.342%
55	12.686	1800	1802	1809	rVB3	224322	242617	3.82%	0.390%
56	12.774	1809	1817	1820	rBV3	201716	290339	4.57%	0.467%
57	12.863	1825	1832	1836	rBV	3971358	5234084	82.35%	8.424%
58	12.904	1836	1839	1843	rVB3	252816	302979	4.77%	0.488%
59	12.986	1846	1853	1855	rBV2	382777	487971	7.68%	0.785%
60	13.010	1855	1857	1863	rVB2	176464	210571	3.31%	0.339%
61	13.074	1863	1868	1871	rBV3	362133	581186	9.14%	0.935%
62	13.163	1879	1883	1884	rBV3	261474	330939	5.21%	0.533%
63	13.180	1884	1886	1889	rVB	749358	677897	10.67%	1.091%
64	13.251	1893	1898	1900	rBV	733776	713364	11.22%	1.148%
65	13.286	1900	1904	1906	rBV2	532768	515337	8.11%	0.829%
66	13.380	1917	1920	1923	rBV	389065	337799	5.31%	0.544%
67	13.410	1923	1925	1928	rVB	452316	361054	5.68%	0.581%
68	13.586	1952	1955	1956	rVV	130827	147871	2.33%	0.238%
69	13.604	1956	1958	1961	rVV	207035	248384	3.91%	0.400%
70	13.668	1965	1969	1971	rBV2	155538	213288	3.36%	0.343%
71	13.698	1971	1974	1977	rVV	222696	242725	3.82%	0.391%

LSC Area Percent Report

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Acq On : 31 Dec 2019 21:16
Operator : JU
Sample : K6465-02 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GP-11-(5-6)

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-BF122419.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.804	1987	1992	1994	rBV	363225	420485	6.62%	0.677%
73	13.827	1994	1996	1999	rVV	452812	437417	6.88%	0.704%
74	13.857	1999	2001	2007	rVV3	281991	470761	7.41%	0.758%
75	13.910	2007	2010	2013	rVV	194682	209891	3.30%	0.338%
76	13.974	2016	2021	2023	rBV	102698	144590	2.27%	0.233%
77	14.051	2027	2034	2038	rBV2	2334116	3357455	52.83%	5.404%
78	14.086	2038	2040	2044	rVV	1885544	1876710	29.53%	3.020%
79	14.162	2051	2053	2059	rBV	329543	330718	5.20%	0.532%
80	14.286	2070	2074	2077	rBV2	126622	134279	2.11%	0.216%
81	14.409	2092	2095	2097	rBV2	188028	200519	3.15%	0.323%
82	14.445	2097	2101	2104	rVV	585285	670890	10.56%	1.080%
83	14.480	2104	2107	2109	rVV	315660	302478	4.76%	0.487%
84	14.521	2111	2114	2116	rVV2	206085	267709	4.21%	0.431%
85	14.545	2116	2118	2120	rVV	220201	210713	3.32%	0.339%
86	14.574	2120	2123	2124	rVV	251267	251273	3.95%	0.404%
87	14.592	2124	2126	2129	rVV	295325	260310	4.10%	0.419%
88	14.639	2129	2134	2138	rVB2	157640	212704	3.35%	0.342%
89	14.768	2153	2156	2160	rBV3	110530	179683	2.83%	0.289%
90	14.951	2184	2187	2190	rBV2	146964	147684	2.32%	0.238%
91	15.121	2210	2216	2219	rBV	1141646	1864693	29.34%	3.001%
92	15.227	2230	2234	2238	rVB	223561	228751	3.60%	0.368%
93	15.427	2263	2268	2275	rVB	721030	953788	15.01%	1.535%
94	15.498	2275	2280	2284	rVV	1169066	1408724	22.16%	2.267%
95	15.556	2285	2290	2292	rVV	400806	558596	8.79%	0.899%
96	15.586	2292	2295	2302	rVB2	326107	511240	8.04%	0.823%
97	17.074	2541	2548	2555	rVB	401515	789619	12.42%	1.271%
98	17.245	2572	2577	2582	rBV2	75292	143187	2.25%	0.230%
99	17.533	2619	2626	2635	rVB	246289	546829	8.60%	0.880%
100	17.786	2664	2669	2681	rVB2	78513	220328	3.47%	0.355%

Sum of corrected areas: 62133940

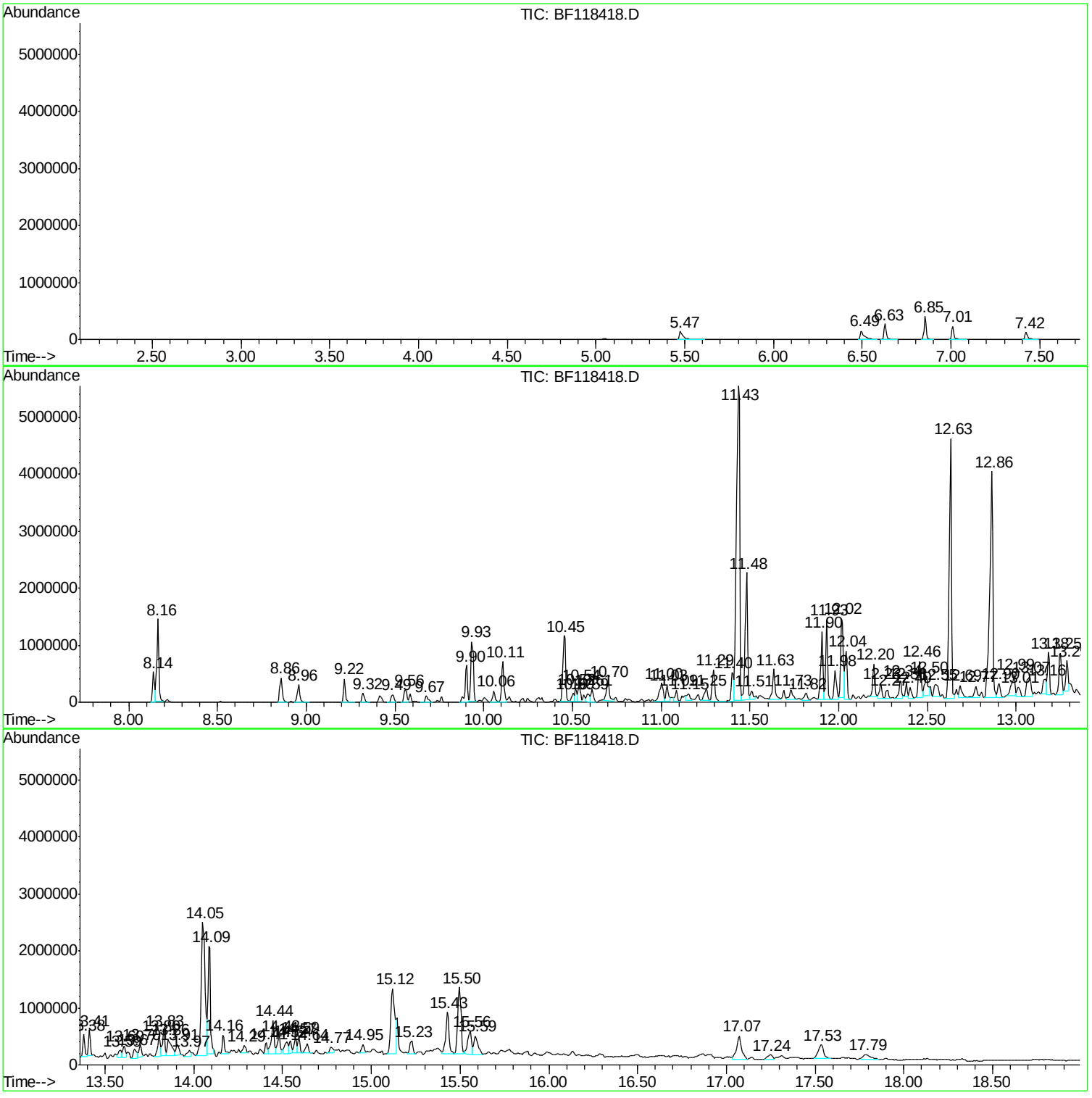
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118418.D
Acq On : 31 Dec 2019 21:16
Operator : JU
Sample : K6465-02 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GP-11-(5-6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118418.D
Acq On : 31 Dec 2019 21:16
Operator : JU
Sample : K6465-02 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GP-11-(5-6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

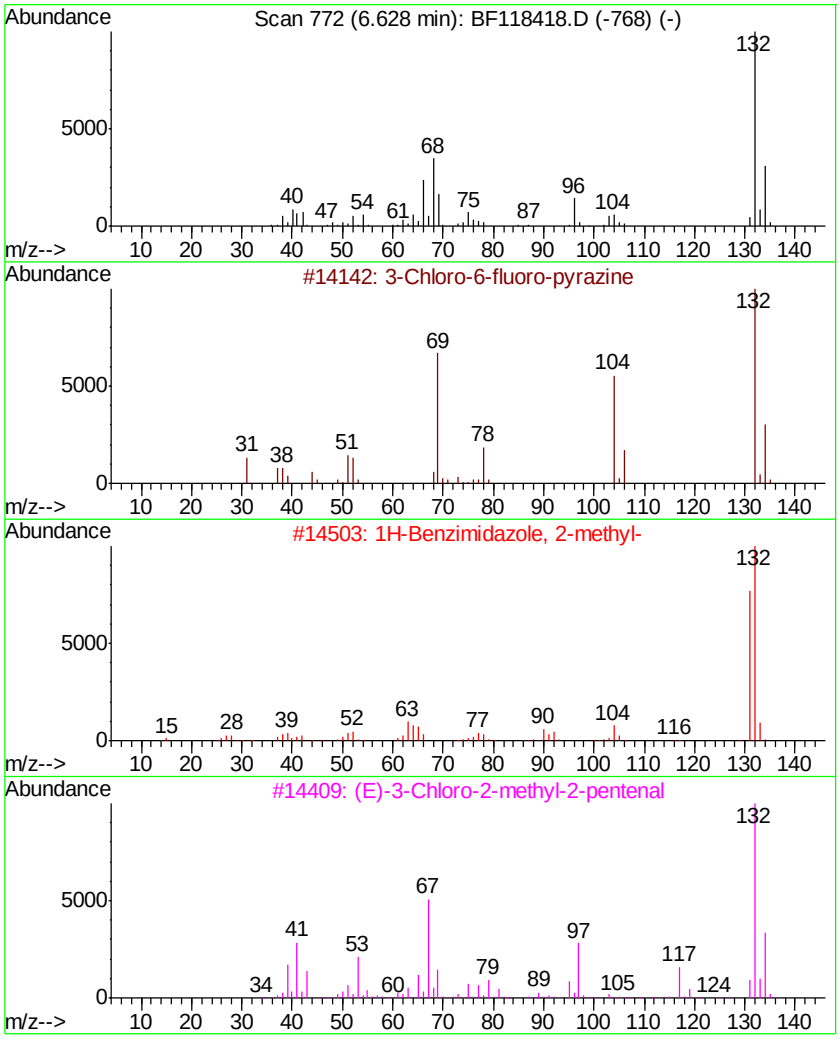
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

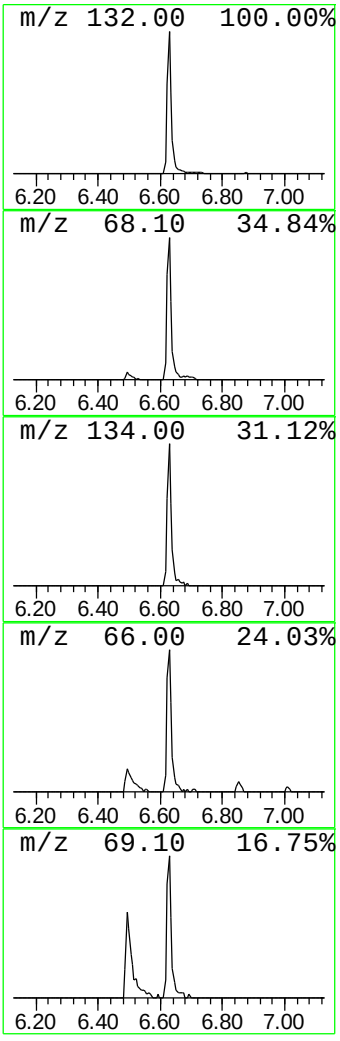
****

Peak Number 1 unknown6.63 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.63	15.44 ng	266906	1,4-Dichlorobenzene-d4	6.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	27
3	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	25
4	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
5	4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118418.D
Acq On : 31 Dec 2019 21:16
Operator : JU
Sample : K6465-02 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GP-11-(5-6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

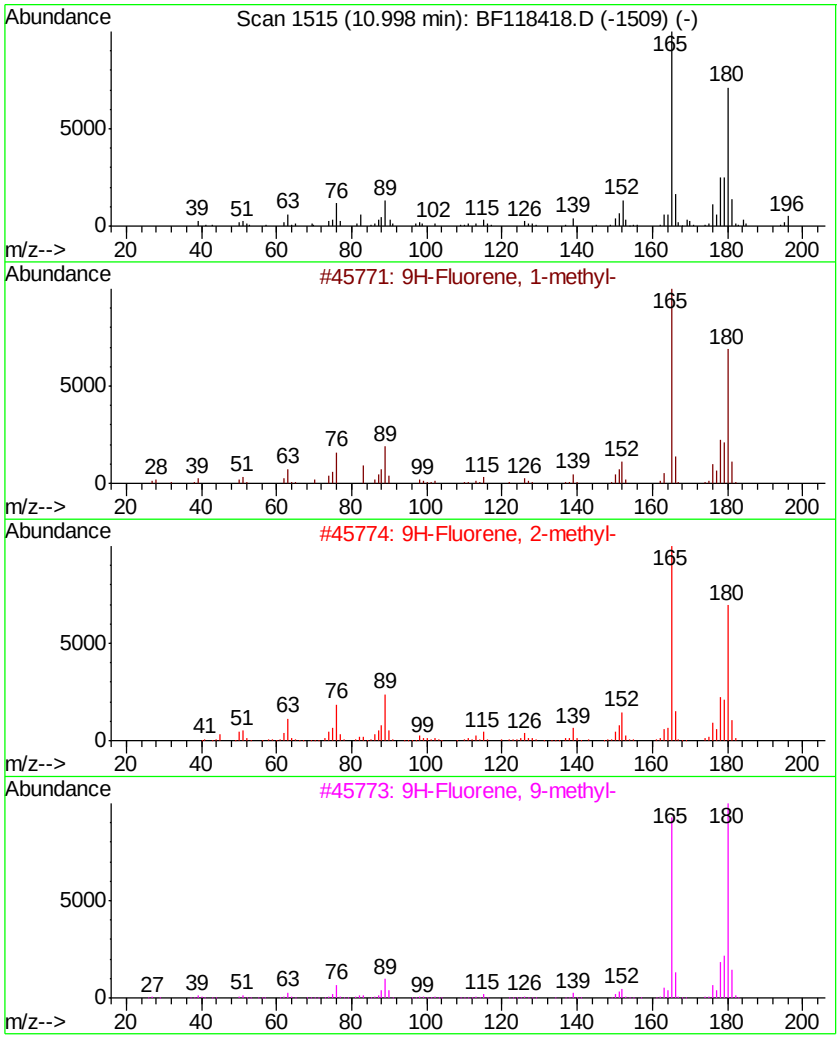
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

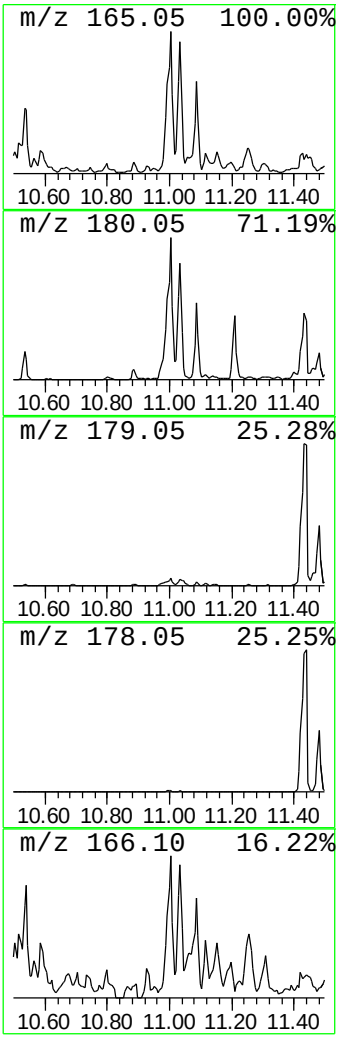
****

Peak Number 3 9H-Fluorene, 1-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.00	15.08 ng	426773	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	97
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
3	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	93
4	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	90
5	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	89





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Acq On : 31 Dec 2019 21:16
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Sample : K6465-02 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GP-11-(5-6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

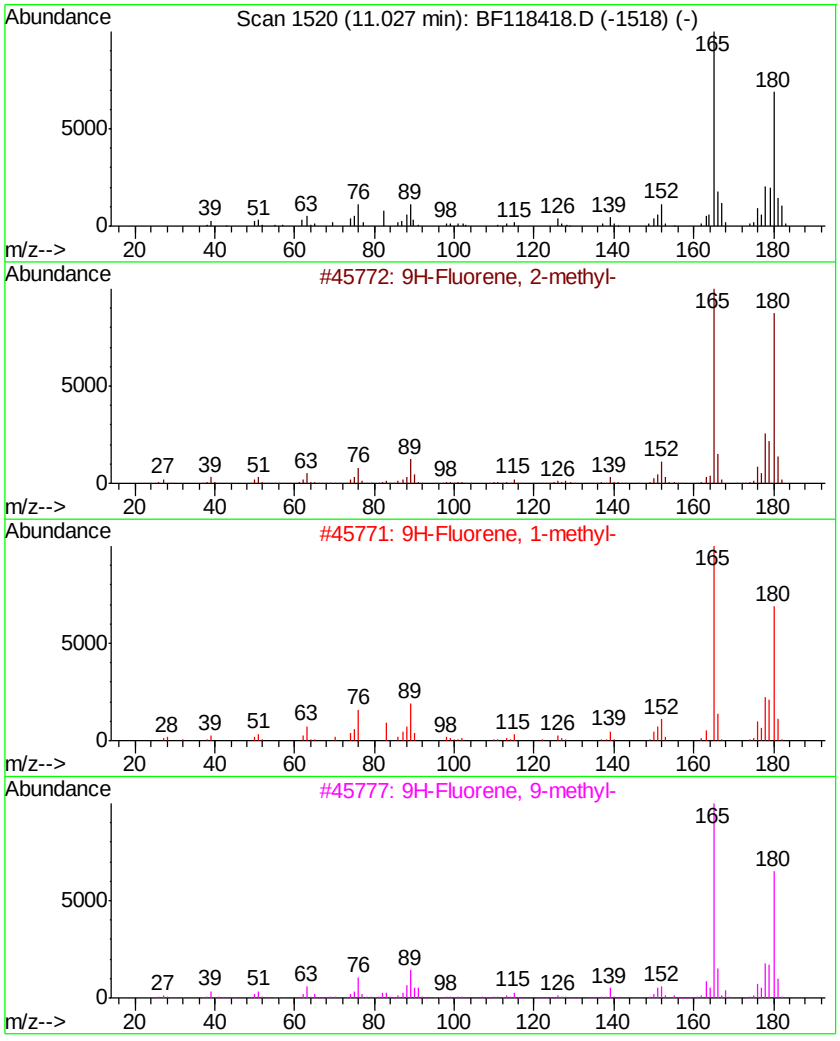
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

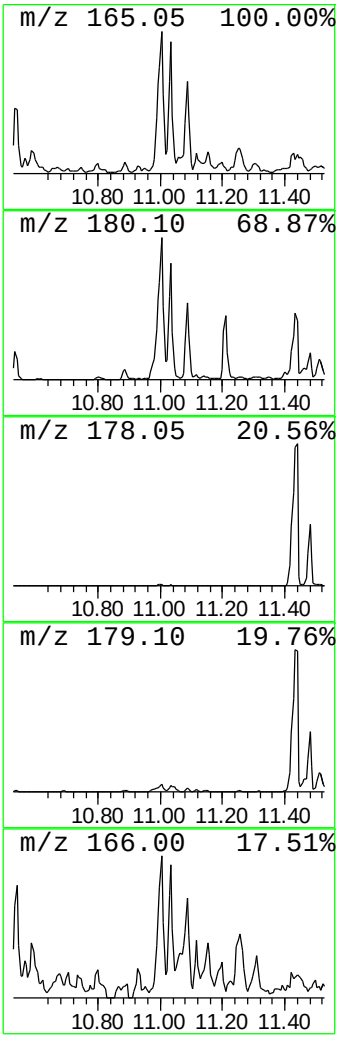
****

Peak Number 4 9H-Fluorene, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.03	9.77 ng	276632	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	95
3	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	94
4	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	89
5	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	55





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118418.D
Acq On : 31 Dec 2019 21:16
Operator : JU
Sample : K6465-02 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GP-11-(5-6)

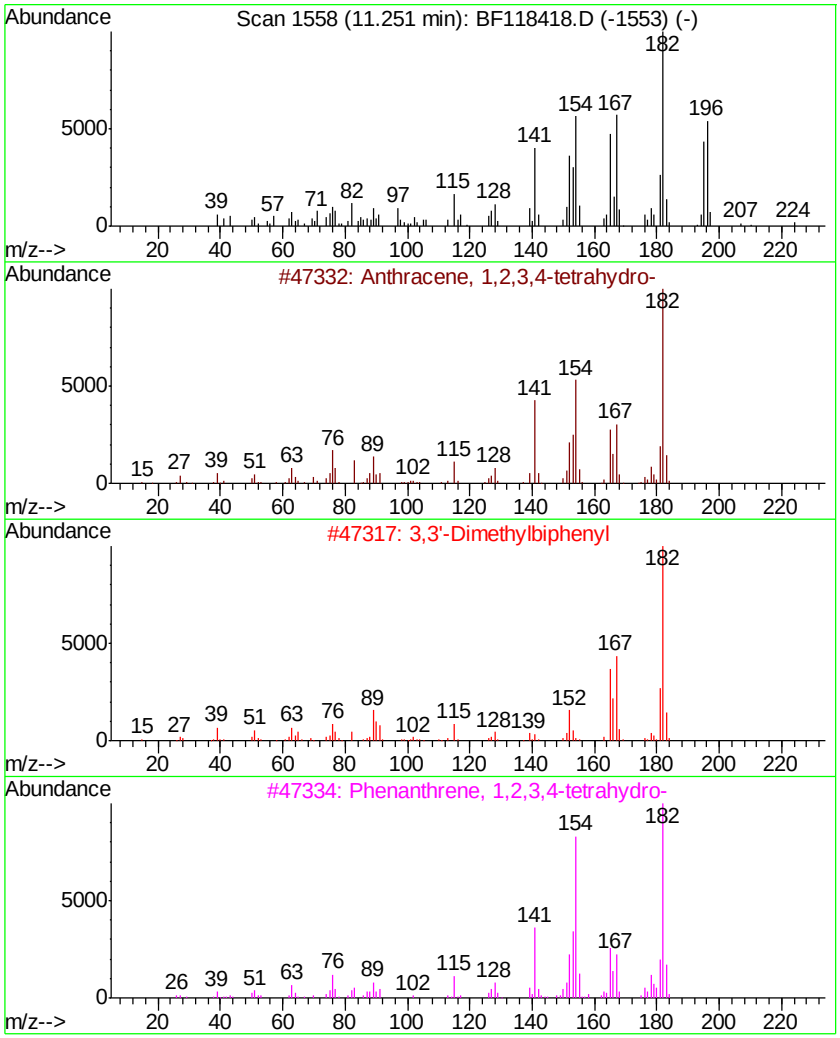
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

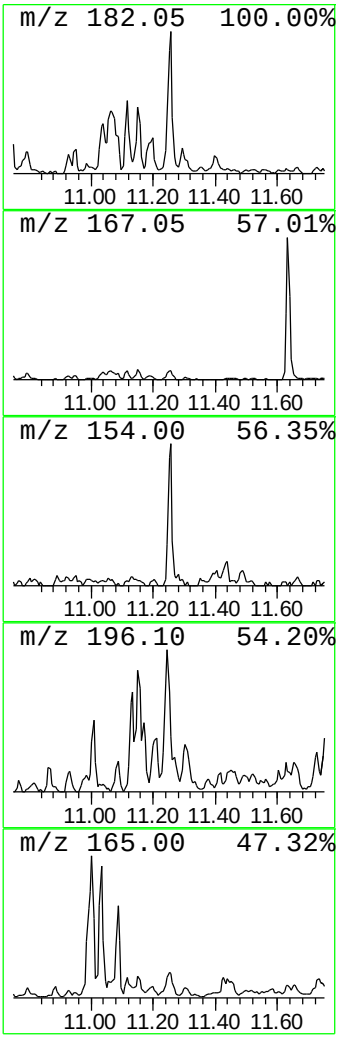
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Anthracene, 1,2,3,4-tetrahy... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.25	8.88 ng	251271	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	83
2	3,3'-Dimethylbiphenyl	182	C14H14	000612-75-9	55
3	Phenanthrene, 1,2,3,4-tetrahydro-	182	C14H14	001013-08-7	50
4	4,4'-Dimethylbiphenyl	182	C14H14	000613-33-2	50
5	7-Phenylbicyclo[3.2.1]octa-2,6-d...	182	C14H14	1000201-01-7	49





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118418.D
Acq On : 31 Dec 2019 21:16
Operator : JU
Sample : K6465-02 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GP-11-(5-6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

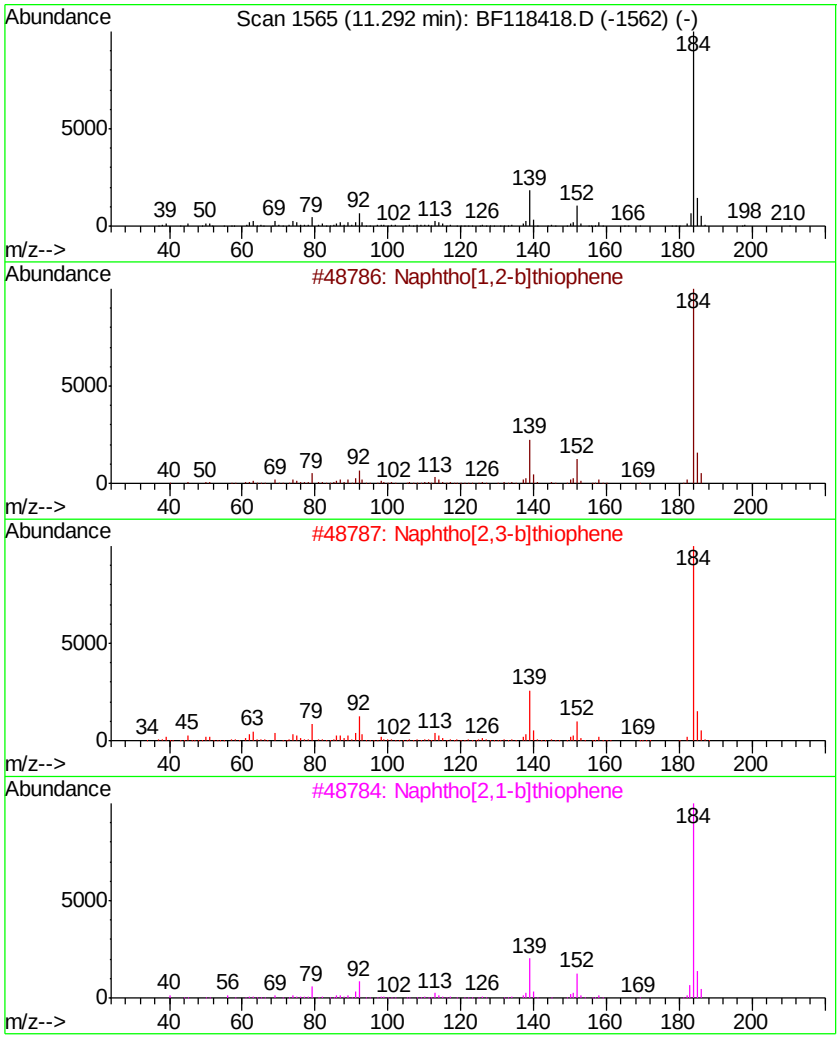
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

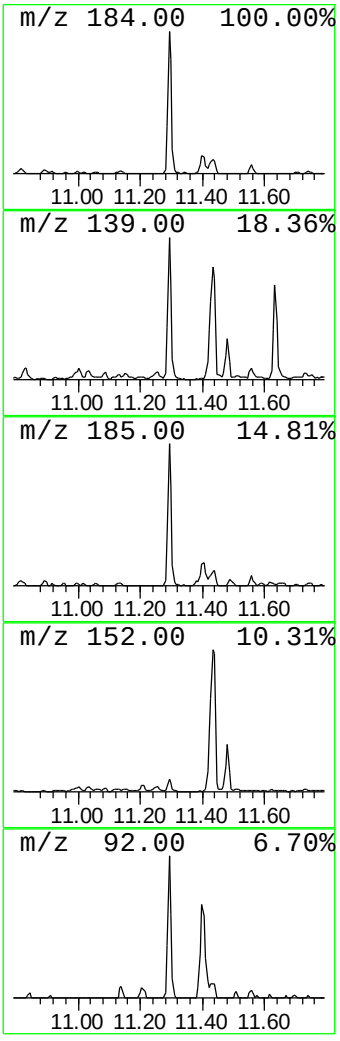
****

Peak Number 6 Naphtho[1,2-b]thiophene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.29	18.83 ng	533134	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	97
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	97
3	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	96
4	Dibenzothiophene	184	C12H8S	000132-65-0	95
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90





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Acq On : 31 Dec 2019 21:16
Operator : JU
Sample : K6465-02 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GP-11-(5-6)

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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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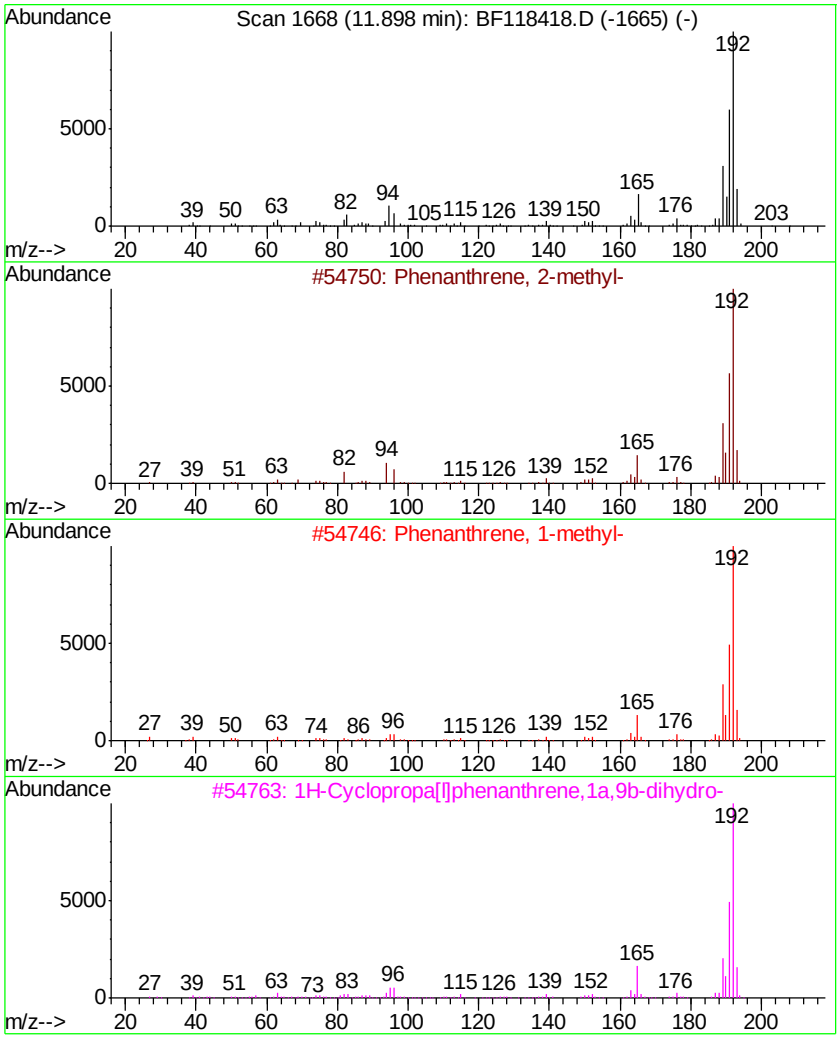
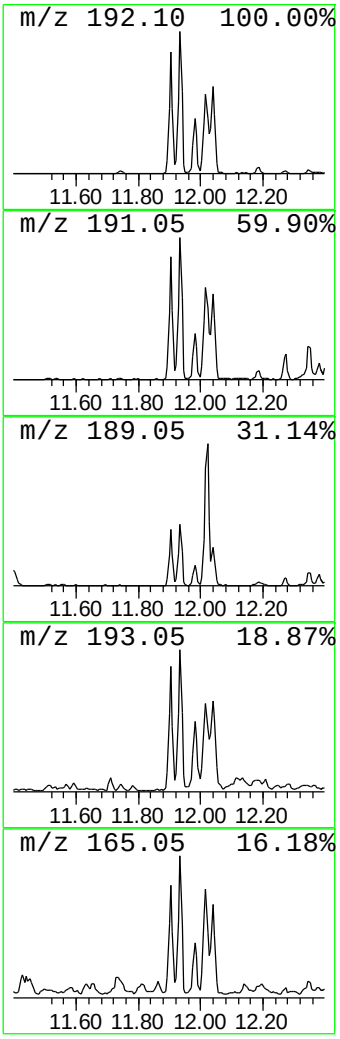
Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	34.67 ng	981399	Phenanthrene-d10	11.40

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	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94





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Sample : K6465-02 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GP-11-(5-6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF122419.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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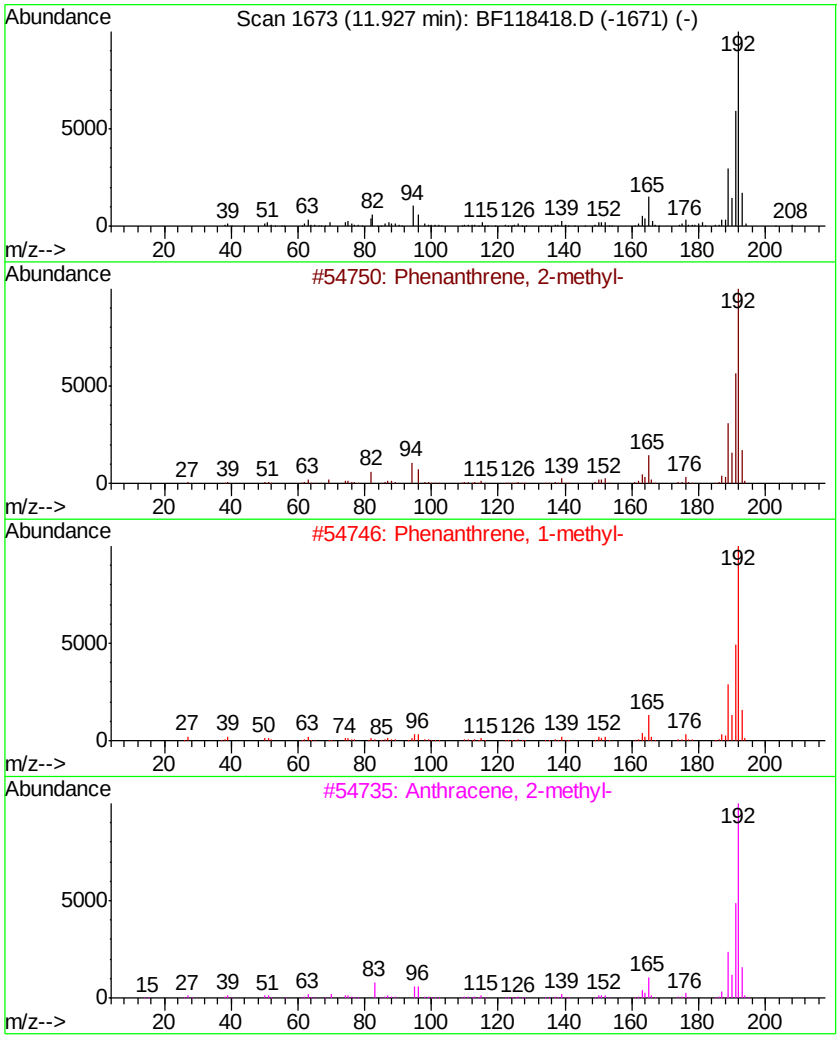
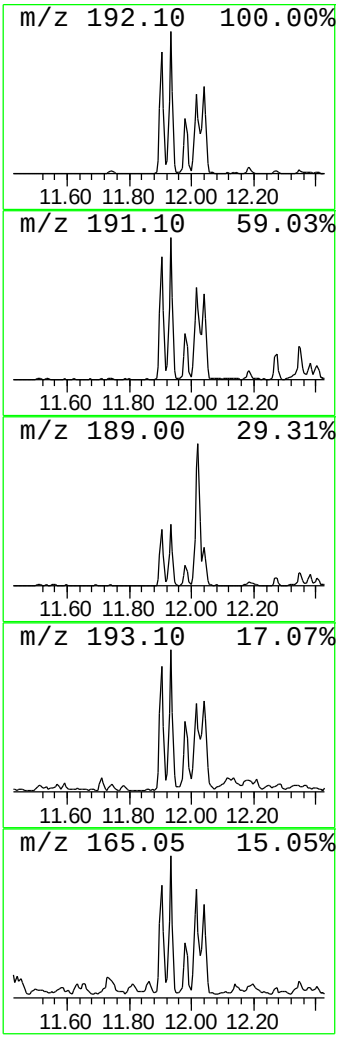
Peak Number 8 1H-Cyclopropa[l]phenanthren... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.93	39.96 ng	1131200	Phenanthrene-d10	11.40

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	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93





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Sample : K6465-02 5X
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ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GP-11-(5-6)

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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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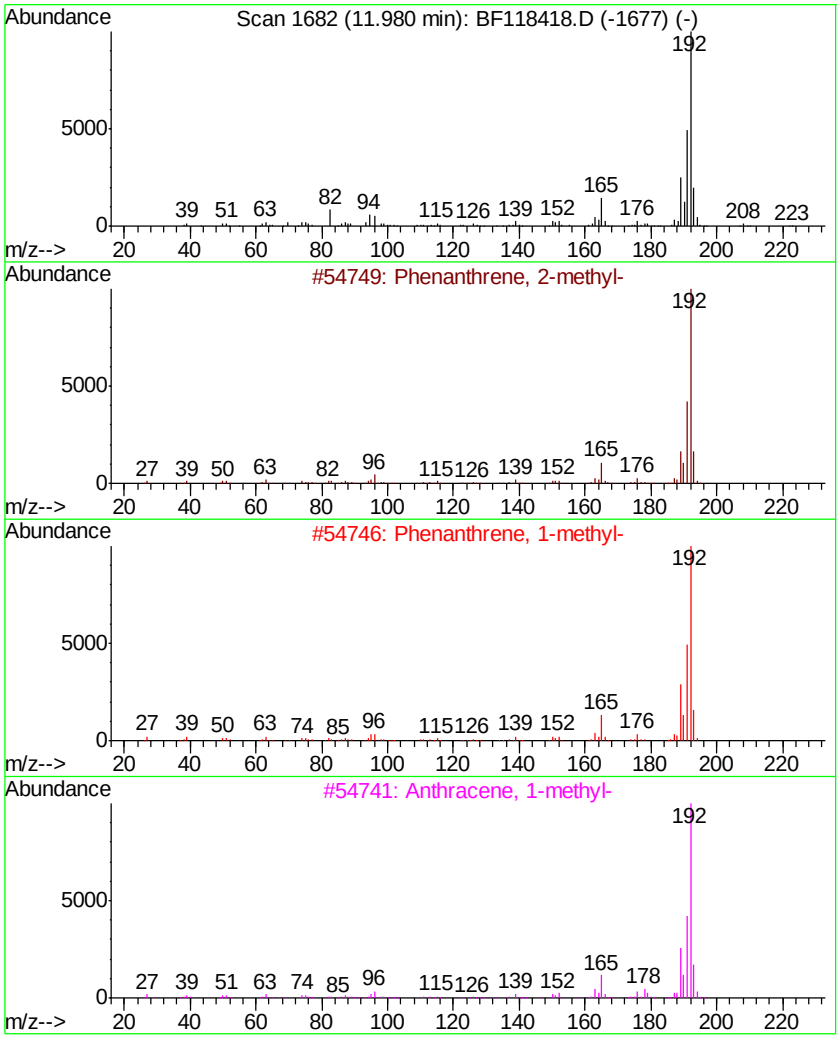
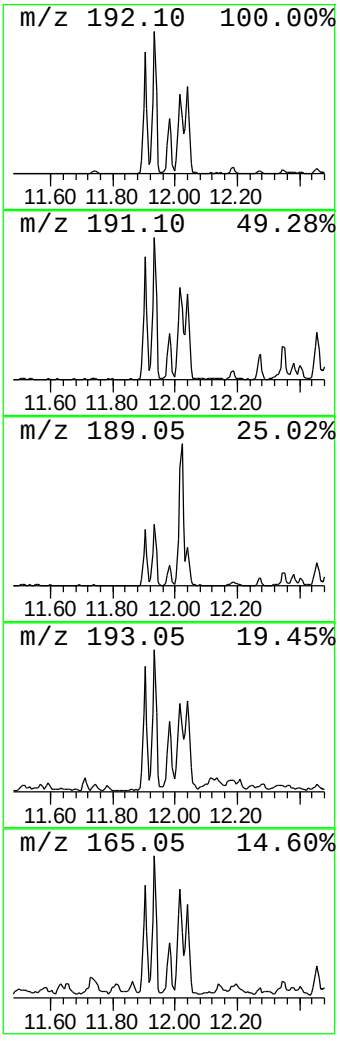
Peak Number 9 Anthracene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	17.03 ng	482152	Phenanthrene-d10	11.40

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





Library Search Compound Report

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Sample : K6465-02 5X
Misc :
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ClientSampleId : GP-11-(5-6)

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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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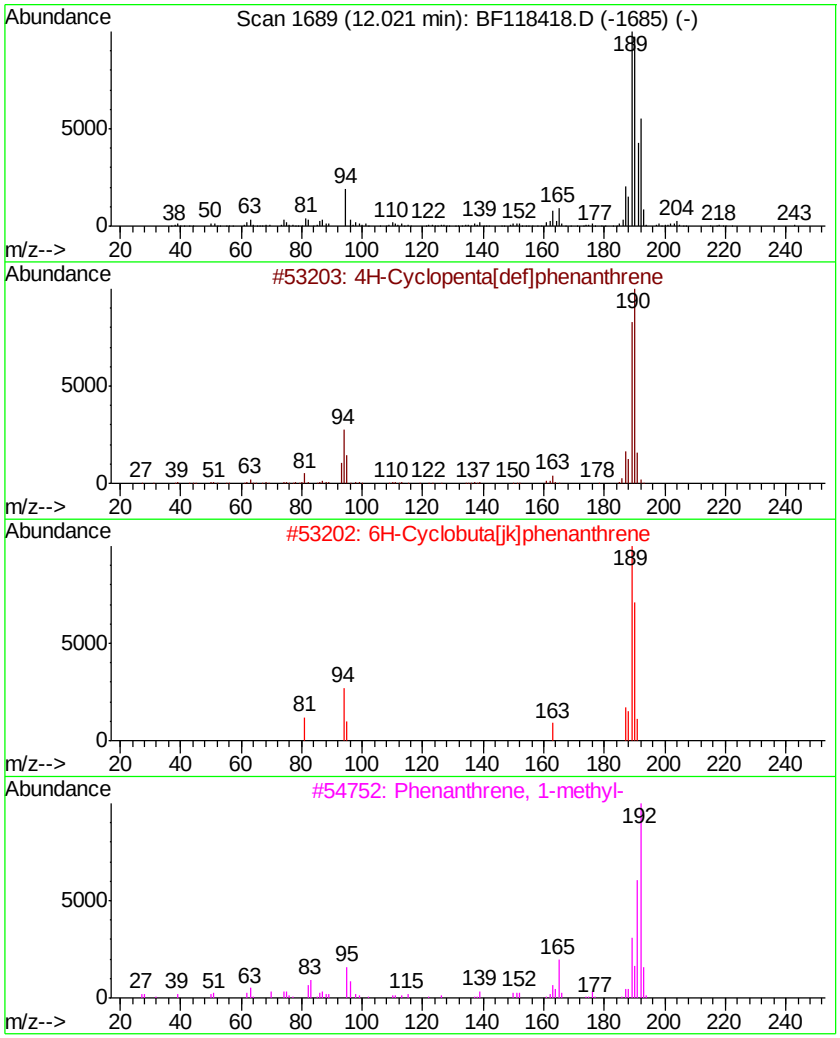
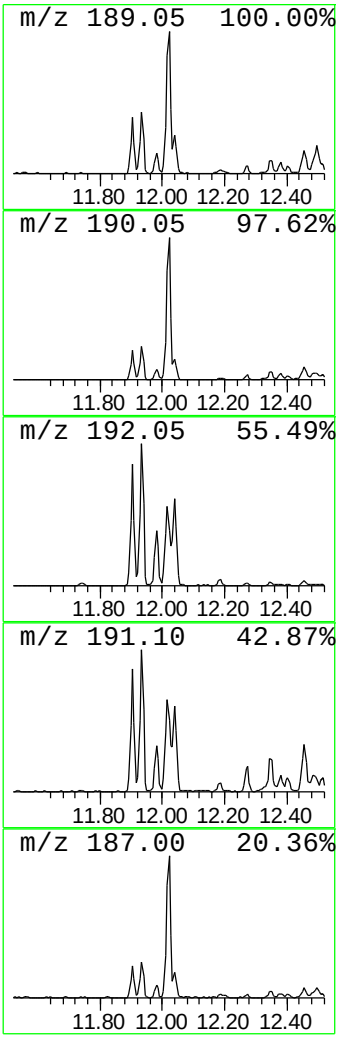
Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.02	58.14 ng	1645870	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	46
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	46
5	3-Bromo-2-hydroxy-2-cyclohexen-1...	190	C6H7BrO2	010324-65-9	46





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Sample : K6465-02 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GP-11-(5-6)

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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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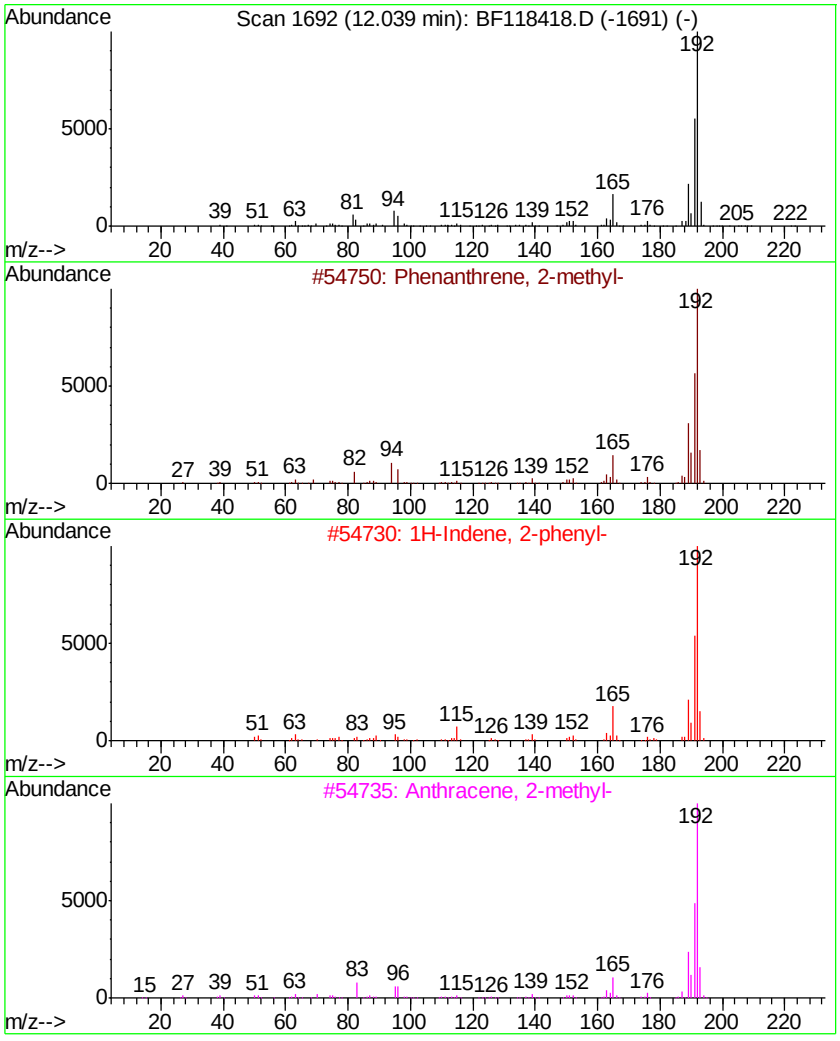
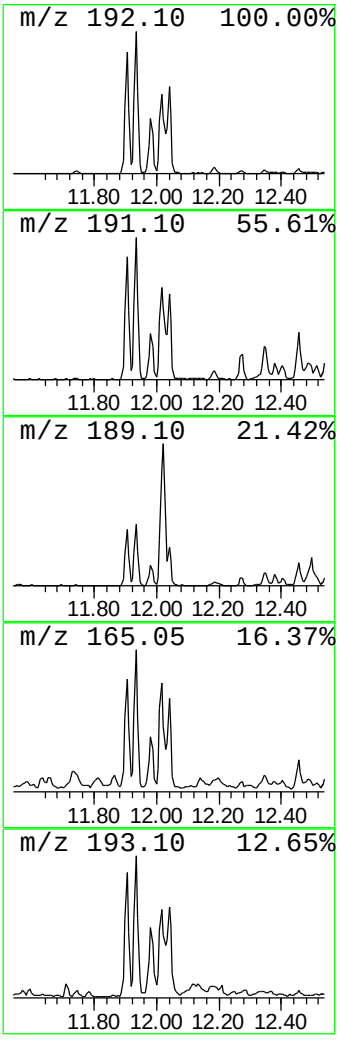
Peak Number 11 1H-Indene, 2-phenyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.04	19.23 ng	544287	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	90
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	90





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Operator : JU
Sample : K6465-02 5X
Misc :
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Instrument : BNA_F
ClientSampleId : GP-11-(5-6)

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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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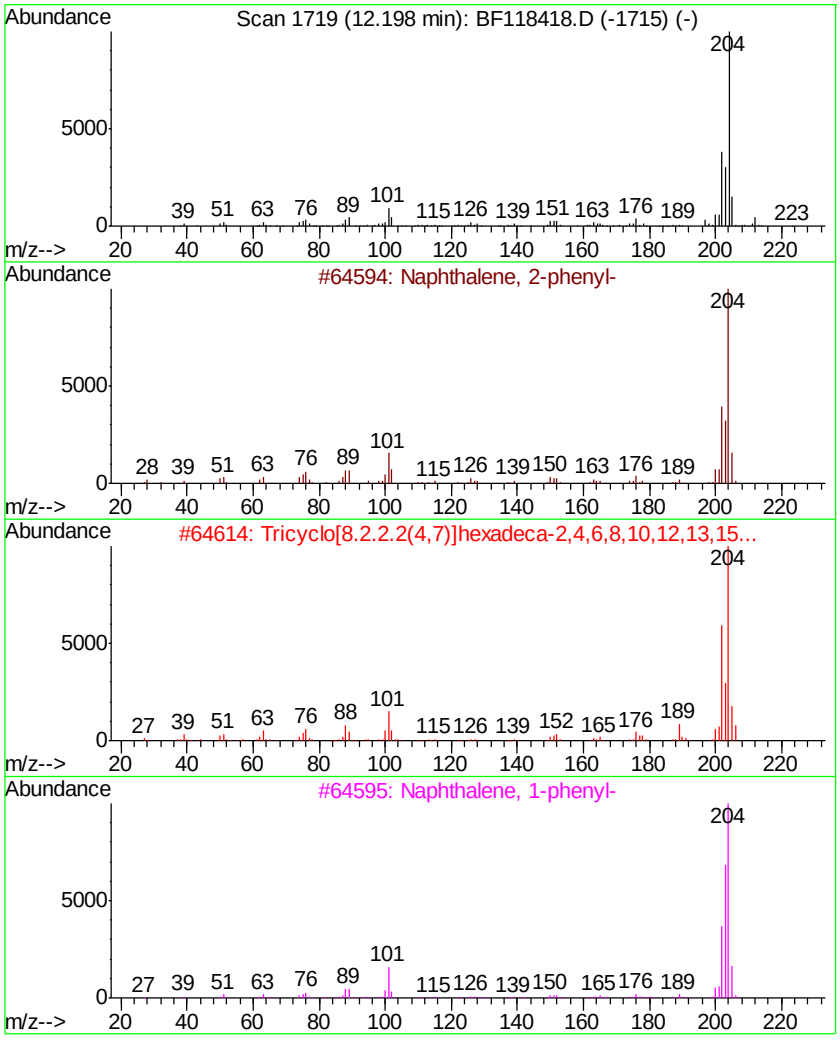
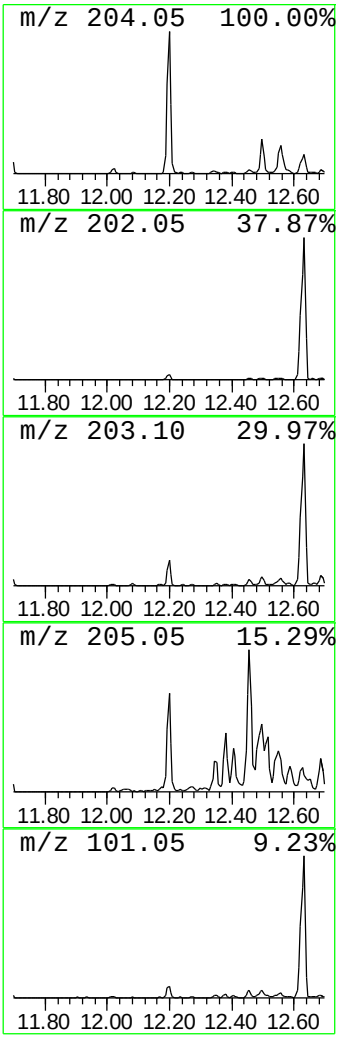
Peak Number 12 Naphthalene, 2-phenyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	18.40 ng	520824	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	90
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	74
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	64
4	6-Cyanophenanthridine	204	C14H8N2	002176-28-5	60
5	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	58





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Operator : JU
Sample : K6465-02 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GP-11-(5-6)

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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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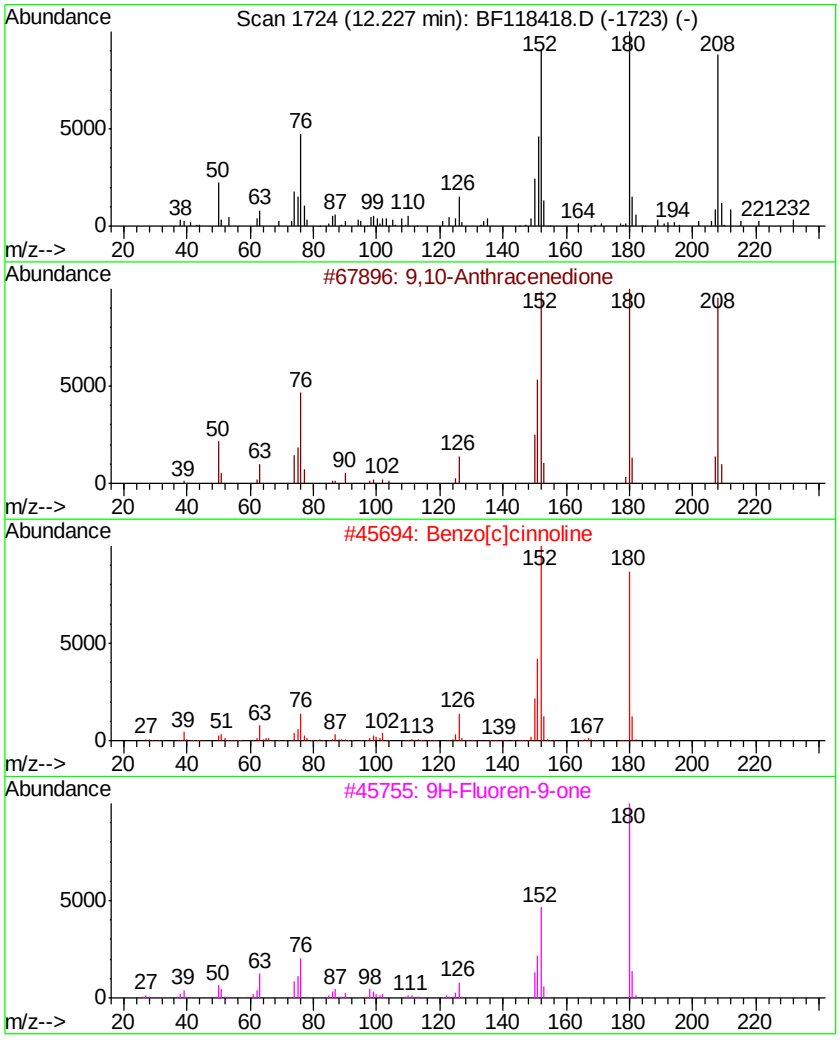
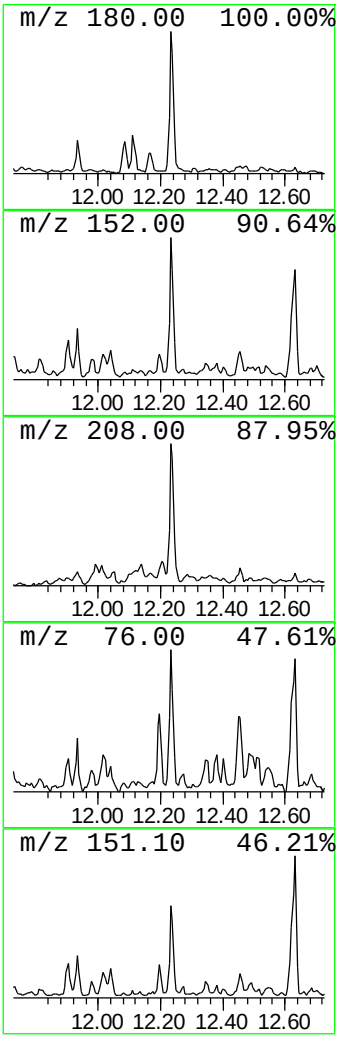
Peak Number 13 9,10-Anthracenedione Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.23	8.81 ng	249384	Phenanthrene-d10	11.40

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	96
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	62
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	60





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Misc :
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Instrument : BNA_F
ClientSampleId : GP-11-(5-6)

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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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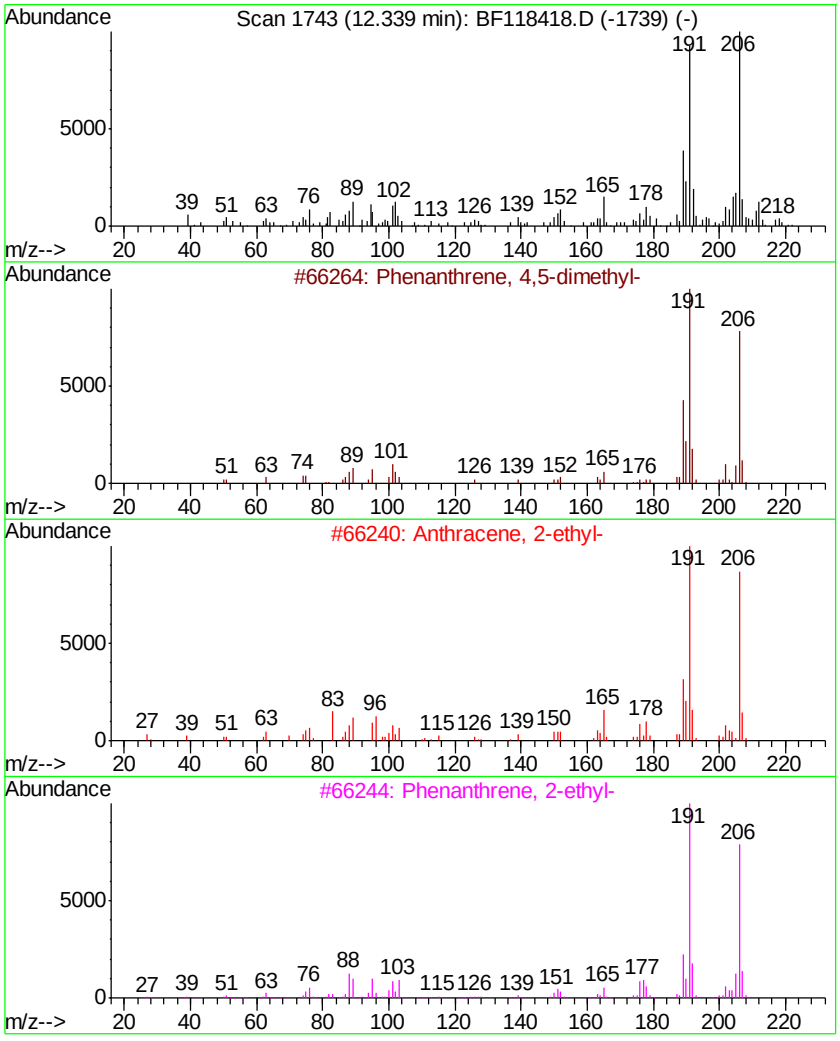
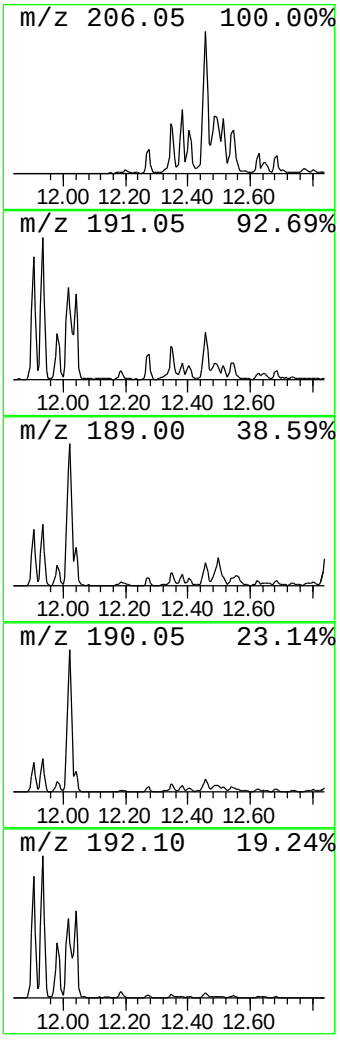
Peak Number 14 Phenanthrene, 4,5-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.34	12.48 ng	353230	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	96
2	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	94
3	Phenanthrene, 2-ethyl-	206	C16H14	003674-74-6	90
4	1-Methyl-3-phenyl-1H-indene	206	C16H14	022360-62-9	83
5	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	83





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Misc :
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Instrument : BNA_F
ClientSampleId : GP-11-(5-6)

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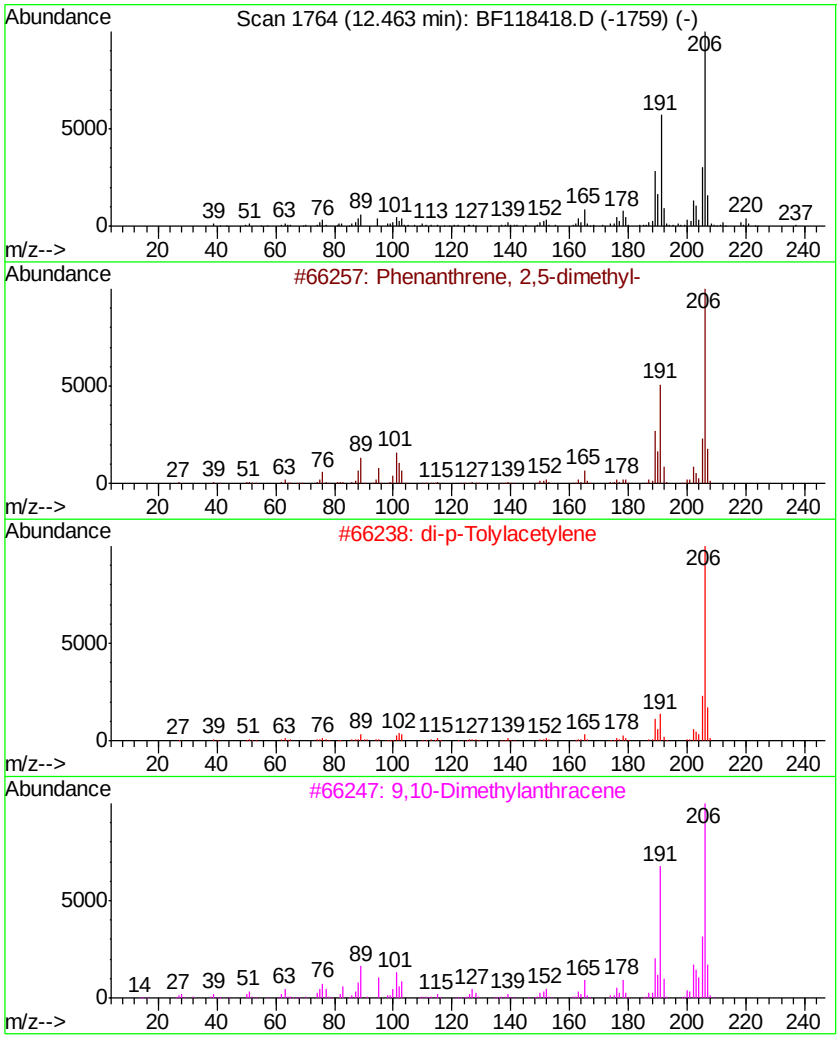
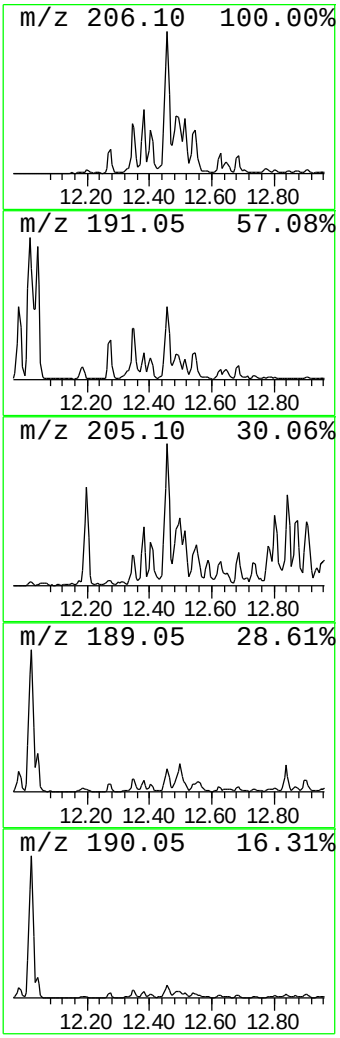
Peak Number 15 Phenanthrene, 2,5-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	23.82 ng	674228	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	94
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	93
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
5	3-Methyl-1-phenyl-1H-indene	206	C16H14	022360-63-0	90





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Misc :
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Instrument : BNA_F
ClientSampleId : GP-11-(5-6)

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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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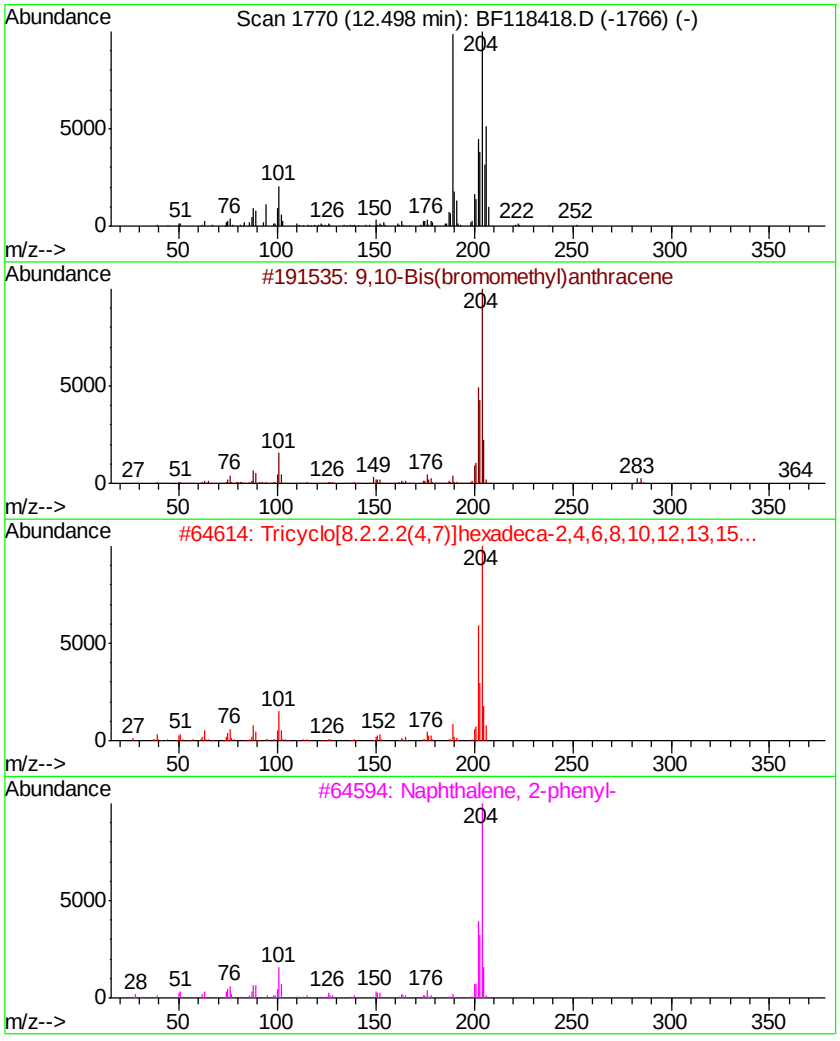
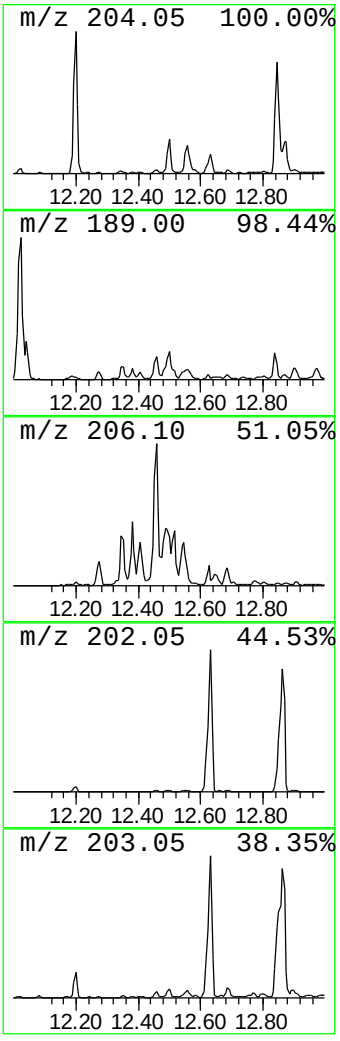
Peak Number 16 unknown12.50 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.50	16.73 ng	473512	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	46
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	45
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	41
4	Quinoline, 8-methoxy-5-nitro-	204	C10H8N2O3	1000298-88-7	38
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	35





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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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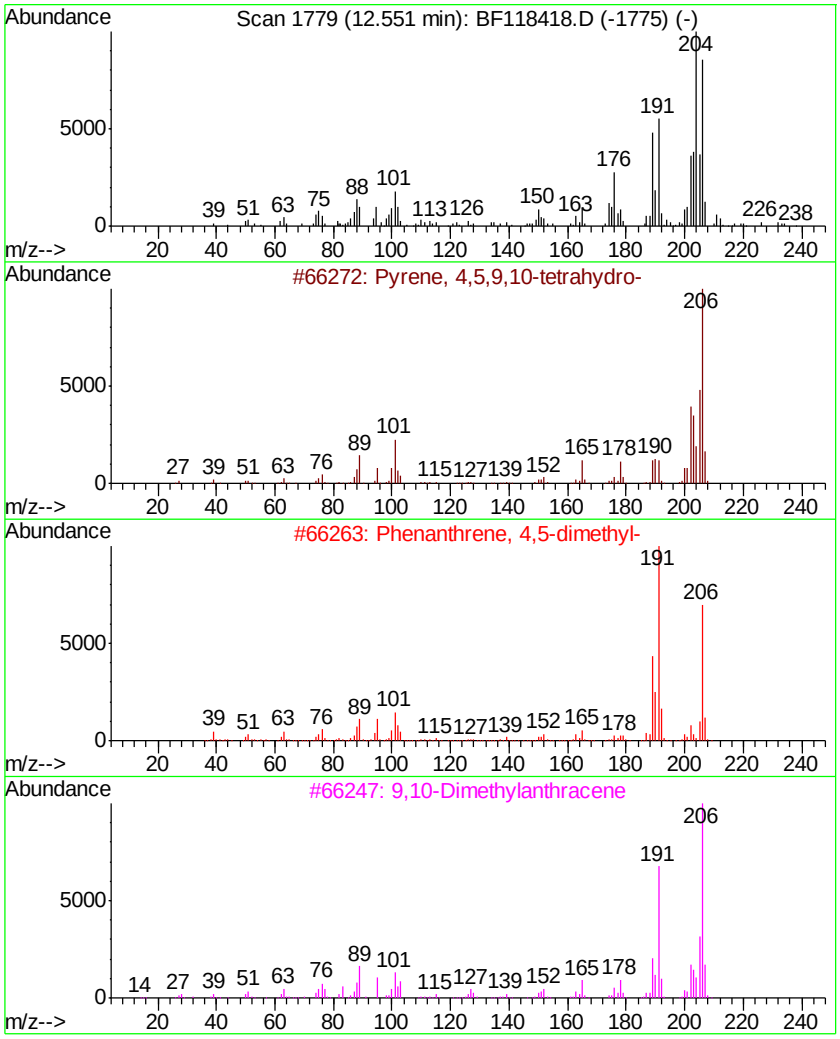
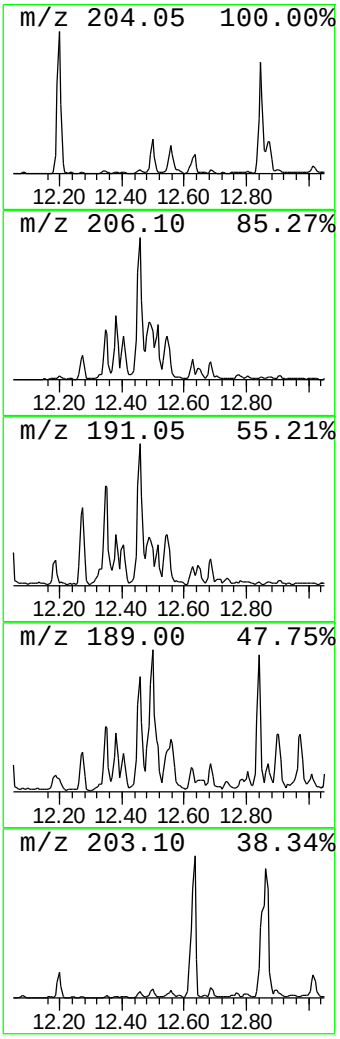
Peak Number 17 Pyrene, 4,5,9,10-tetrahydro- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.55	11.93 ng	337602	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	68
2	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	55
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	46
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	42
5	1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	42





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Acq On : 31 Dec 2019 21:16
Operator : JU
Sample : K6465-02 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GP-11-(5-6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF122419.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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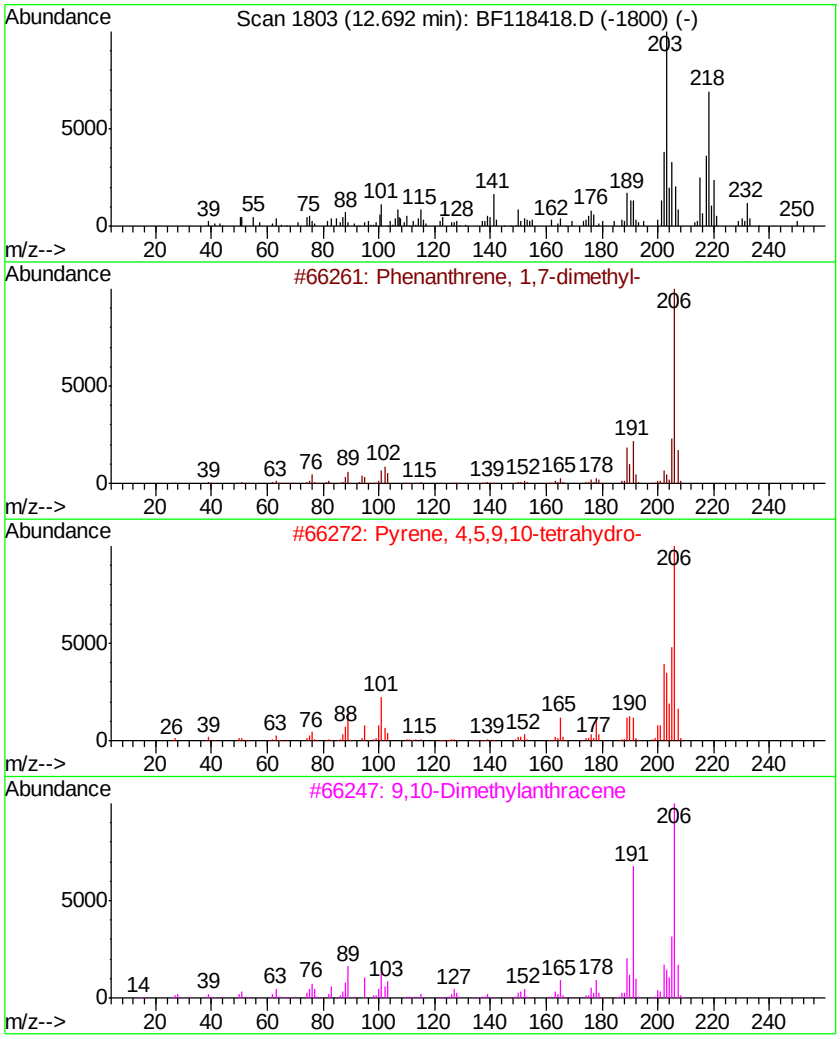
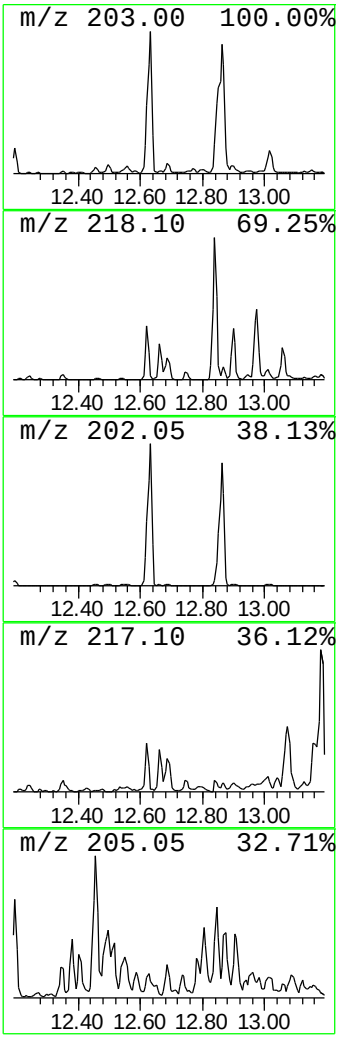
Peak Number 18 unknown12.69 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.69	8.57 ng	242617	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	35
2	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	35
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	35
4	1,2,3,4-Tetrahydro-1-phenyl-1,2,...	218	C17H14	138089-69-7	30
5	9-Cyanophenanthrene	203	C15H9N	002510-55-6	25





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118418.D
Acq On : 31 Dec 2019 21:16
Operator : JU
Sample : K6465-02 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GP-11-(5-6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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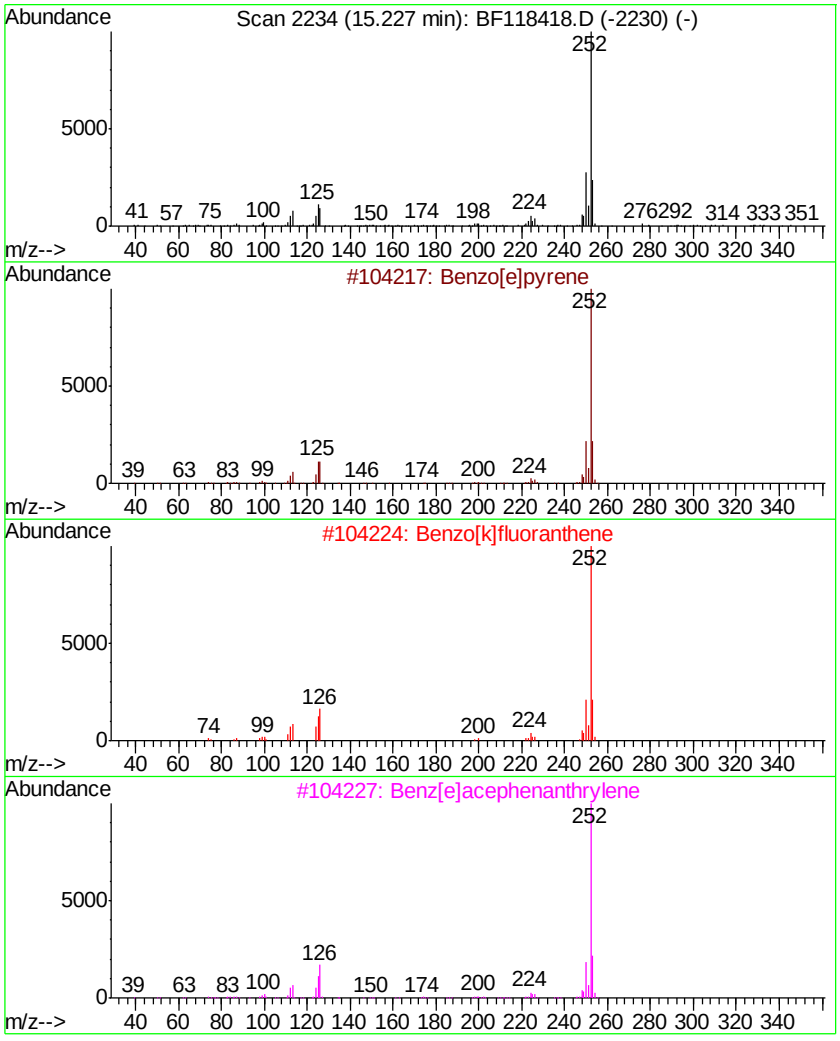
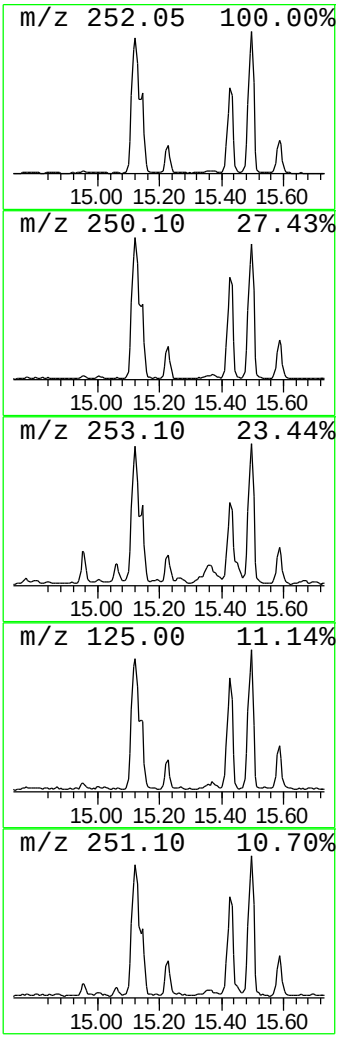
Peak Number 19 Benzo[e]pyrene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.23	8.19 ng	228751	Perylene-d12	15.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Perylene	252	C20H12	000198-55-0	90





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118418.D
Acq On : 31 Dec 2019 21:16
Operator : JU
Sample : K6465-02 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GP-11-(5-6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF122419.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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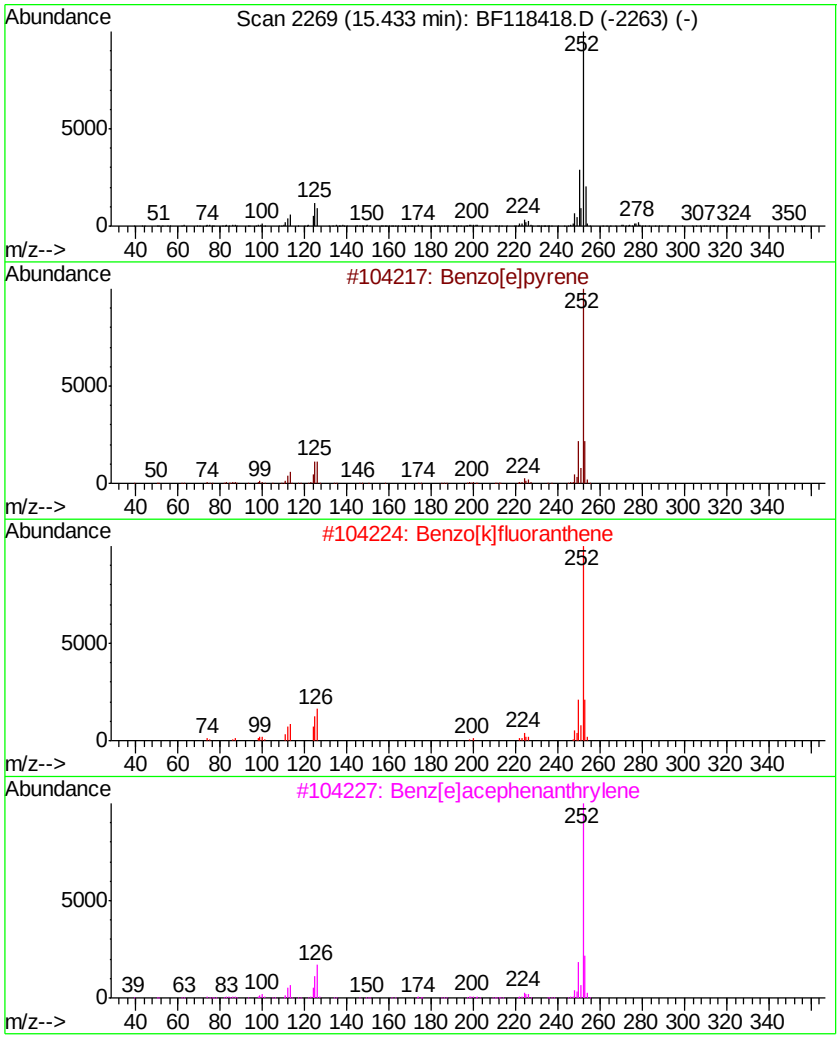
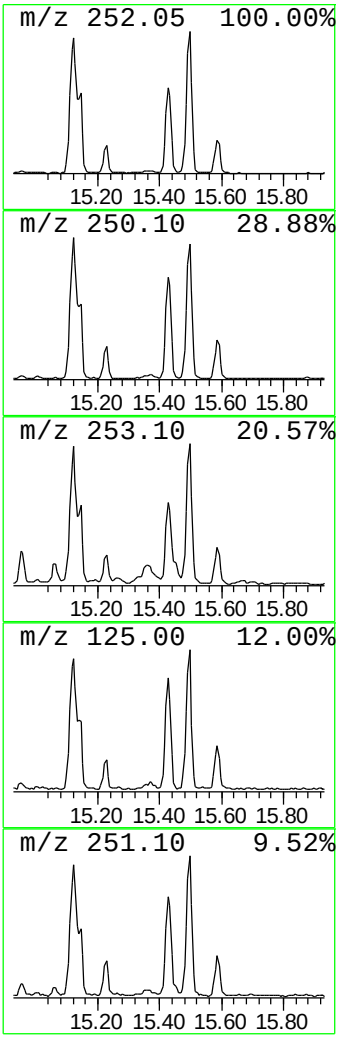
Peak Number 20 Perylene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.43	34.15 ng	953788	Perylene-d12	15.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	97
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95
4	Perylene	252	C20H12	000198-55-0	94
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF123119\
Data File : BF118418.D
Acq On : 31 Dec 2019 21:16
Operator : JU
Sample : K6465-02 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GP-11-(5-6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF122419.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
unknown6.63	6.63	15.4	ng	266906	1	6.85	345706	20.0
9H-Fluorene, 1-me...	11.00	15.1	ng	426773	4	11.40	566169	20.0
9H-Fluorene, 2-me...	11.03	9.8	ng	276632	4	11.40	566169	20.0
Anthracene, 1,2,3...	11.25	8.9	ng	251271	4	11.40	566169	20.0
Naphtho[1,2-b]thi...	11.29	18.8	ng	533134	4	11.40	566169	20.0
Phenanthrene, 2-m...	11.90	34.7	ng	981399	4	11.40	566169	20.0
1H-Cyclopropa[l]p...	11.93	40.0	ng	1131200	4	11.40	566169	20.0
Anthracene, 2-met...	11.98	17.0	ng	482152	4	11.40	566169	20.0
4H-Cyclopenta[def...	12.02	58.1	ng	1645870	4	11.40	566169	20.0
1H-Indene, 2-phenyl-	12.04	19.2	ng	544287	4	11.40	566169	20.0
Naphthalene, 2-ph...	12.20	18.4	ng	520824	4	11.40	566169	20.0
9,10-Anthracenedione	12.23	8.8	ng	249384	4	11.40	566169	20.0
Phenanthrene, 4,5...	12.34	12.5	ng	353230	4	11.40	566169	20.0
Phenanthrene, 2,5...	12.46	23.8	ng	674228	4	11.40	566169	20.0
unknown12.50	12.50	16.7	ng	473512	4	11.40	566169	20.0
Pyrene, 4,5,9,10-...	12.55	11.9	ng	337602	4	11.40	566169	20.0
unknown12.69	12.69	8.6	ng	242617	4	11.40	566169	20.0
Benzo[e]pyrene	15.23	8.2	ng	228751	6	15.56	558596	20.0
Perylene	15.43	34.1	ng	953788	6	15.56	558596	20.0