LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020420\
Data File : BF118817.D
Acq On : 4 Feb 2020 22:35
Operator : CG/JU
Sample : L1383-09
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-C

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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	2.199	15	19	32	rVB	84912	125509	2.22%	0.157%
2	3.881	295	305	310	rBV	65146	95442	1.69%	0.120%
3	5.034	497	501	506	rVB	82001	100236	1.77%	0.126%
4	5.434	564	569	572	rVB	4821498	4774695	84.49%	5.981%
5	5.651	602	606	613	rBV2	150691	176449	3.12%	0.221%
6	6.445	735	741	744	rBV	4322267	4756633	84.17%	5.959%
7	6.645	772	775	780	rBV3	162854	191972	3.40%	0.240%
8	6.810	800	803	807	rBV	1922224	1627118	28.79%	2.038%
9	6.969	826	830	833	rBV	4753972	4169721	73.78%	5.224%
10	7.075	843	848	855	rBV	165525	184878	3.27%	0.232%
11	7.369	891	898	901	rBV	3338228	3227592	57.11%	4.043%
12	8.092	1017	1021	1023	rBV	2519641	2192046	38.79%	2.746%
13	8.116	1023	1025	1028	rVB	512161	405317	7.17%	0.508%
14	8.592	1103	1106	1112	rBV2	59690	86090	1.52%	0.108%
15	8.804	1137	1142	1146	rVB	322205	265311	4.69%	0.332%
16	8.904	1155	1159	1163	rVB	292228	237651	4.21%	0.298%
17	9.169	1199	1204	1207	rBV	6575392	5651446	100.00%	7.080%
18	9.263	1215	1220	1223	rBV2	91523	141036	2.50%	0.177%
19	9.363	1235	1237	1243	rVB2	77920	101166	1.79%	0.127%
20	9.433	1245	1249	1253	rVV	155150	202050	3.58%	0.253%
21	9.504	1258	1261	1264	rVV	307559	308989	5.47%	0.387%
22	9.533	1264	1266	1268	rVV	202447	163456	2.89%	0.205%
23	9.557	1268	1270	1276	rVV2	398342	448796	7.94%	0.562%
24	9.622	1278	1281	1286	rVV	152249	168314	2.98%	0.211%
25	9.704	1290	1295	1301	rBV	380207	351330	6.22%	0.440%
26	9.845	1313	1319	1323	rBV	2655966	2507336	44.37%	3.141%
27	9.880	1323	1325	1328	rVB2	173522	152400	2.70%	0.191%
28	9.951	1333	1337	1342	rBV2	83173	118997	2.11%	0.149%
29	10.045	1348	1353	1357	rVB3	164248	229684	4.06%	0.288%
30	10.086	1357	1360	1363	rBV	143367	127235	2.25%	0.159%
31	10.163	1368	1373	1376	rBV2	141852	180806	3.20%	0.227%
32	10.192	1376	1378	1380	rVB	110042	71999	1.27%	0.090%
33	10.257	1384	1389	1390	rBV2	102974	146980	2.60%	0.184%
34	10.392	1409	1412	1418	rVB2	279644	318448	5.63%	0.399%

LSC Area Percent Report

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Misc :
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Instrument : BNA_F
ClientSampleId : TP-C

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.504	1429	1431	1436	rVB4	176725	168716	2.99%	0.211%
36	10.551	1436	1439	1444	rVB4	84641	120433	2.13%	0.151%
37	10.633	1448	1453	1456	rBV	4160605	3666653	64.88%	4.593%
38	10.669	1457	1459	1465	rVB5	70888	101556	1.80%	0.127%
39	10.757	1471	1474	1475	rBV	195895	172992	3.06%	0.217%
40	10.939	1499	1505	1508	rBV4	195787	298580	5.28%	0.374%
41	10.969	1508	1510	1513	rVV2	183381	193122	3.42%	0.242%
42	11.022	1517	1519	1522	rVB2	130951	113785	2.01%	0.143%
43	11.133	1535	1538	1542	rVB4	112575	120791	2.14%	0.151%
44	11.233	1551	1555	1563	rVB2	210891	318344	5.63%	0.399%
45	11.327	1567	1571	1573	rBV	2353560	2109285	37.32%	2.642%
46	11.351	1573	1575	1578	rVV	1682690	1355095	23.98%	1.698%
47	11.404	1581	1584	1587	rVB	487752	409086	7.24%	0.512%
48	11.439	1587	1590	1593	rBV	135049	176181	3.12%	0.221%
49	11.627	1620	1622	1624	rVB	136689	99665	1.76%	0.125%
50	11.657	1625	1627	1630	rVB	210451	179529	3.18%	0.225%
51	11.745	1639	1642	1645	rVB	143509	151911	2.69%	0.190%
52	11.786	1646	1649	1652	rVV3	88215	117861	2.09%	0.148%
53	11.833	1653	1657	1659	rVV	703093	742638	13.14%	0.930%
54	11.857	1659	1661	1666	rVV2	1334357	1431809	25.34%	1.794%
55	11.904	1666	1669	1672	rVV	376511	395154	6.99%	0.495%
56	11.939	1672	1675	1678	rVV2	908226	1150987	20.37%	1.442%
57	11.963	1678	1679	1684	rVB	662538	466815	8.26%	0.585%
58	12.033	1689	1691	1694	rVV	121524	116519	2.06%	0.146%
59	12.063	1694	1696	1699	rVB	120120	105374	1.86%	0.132%
60	12.122	1704	1706	1708	rVV	293824	280363	4.96%	0.351%
61	12.145	1708	1710	1717	rVB3	203633	255608	4.52%	0.320%
62	12.198	1717	1719	1721	rBV	84942	83089	1.47%	0.104%
63	12.257	1727	1729	1730	rBV	119322	94710	1.68%	0.119%
64	12.274	1730	1732	1735	rVB	206085	158687	2.81%	0.199%
65	12.304	1735	1737	1739	rBV	179291	166127	2.94%	0.208%
66	12.380	1746	1750	1753	rBV	653415	677850	11.99%	0.849%
67	12.422	1753	1757	1762	rVB2	408449	661468	11.70%	0.829%
68	12.463	1762	1764	1769	rBV2	247416	363907	6.44%	0.456%
69	12.539	1774	1777	1780	rVB	1373460	1170865	20.72%	1.467%
70	12.586	1782	1785	1787	rBV	234664	187836	3.32%	0.235%
71	12.645	1791	1795	1797	rBV2	274322	357178	6.32%	0.447%

LSC Area Percent Report

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Sample : L1383-09
Misc :
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Instrument : BNA_F
ClientSampleId : TP-C

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	12.769	1811	1816	1819	rBV	2269131	2223211	39.34%	2.785%
73	12.792	1819	1820	1823	rVV2	300585	201775	3.57%	0.253%
74	12.827	1824	1826	1829	rVB	197307	199581	3.53%	0.250%
75	12.916	1837	1841	1844	rBV	4333482	4157543	73.57%	5.208%
76	12.986	1850	1853	1860	rBV2	381127	540889	9.57%	0.678%
77	13.098	1869	1872	1875	rVB	581637	586734	10.38%	0.735%
78	13.163	1880	1883	1886	rVB	388329	351837	6.23%	0.441%
79	13.198	1886	1889	1892	rBV	534083	526322	9.31%	0.659%
80	13.292	1902	1905	1908	rBV	485312	409504	7.25%	0.513%
81	13.321	1908	1910	1913	rVB	467029	411139	7.27%	0.515%
82	13.498	1937	1940	1942	rBV3	153834	197912	3.50%	0.248%
83	13.710	1973	1976	1979	rBV3	229348	347571	6.15%	0.435%
84	13.816	1991	1994	1998	rVB3	410366	433963	7.68%	0.544%
85	13.963	2014	2019	2022	rBV2	2292377	3255516	57.61%	4.078%
86	13.992	2022	2024	2031	rVB	1299783	1163883	20.59%	1.458%
87	14.104	2041	2043	2045	rBV	224224	174349	3.09%	0.218%
88	14.315	2077	2079	2081	rBV	251680	226445	4.01%	0.284%
89	14.351	2081	2085	2088	rVV	702108	807362	14.29%	1.011%
90	14.386	2088	2091	2093	rVB	432611	359838	6.37%	0.451%
91	14.474	2104	2106	2108	rBV	350502	303878	5.38%	0.381%
92	14.998	2191	2195	2202	rVB	992268	1890467	33.45%	2.368%
93	15.098	2210	2212	2217	rVB	357022	336961	5.96%	0.422%
94	15.292	2241	2245	2250	rVB	934533	1163474	20.59%	1.458%
95	15.351	2251	2255	2261	rVV	1508813	1805589	31.95%	2.262%
96	15.415	2261	2266	2269	rVV	1411541	1927366	34.10%	2.414%
97	15.445	2269	2271	2278	rVB4	486313	639381	11.31%	0.801%
98	16.845	2504	2509	2516	rVB2	674708	1317558	23.31%	1.651%
99	17.280	2578	2583	2591	rVB	588455	1117118	19.77%	1.399%

Sum of corrected areas: 79824863

LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020420\
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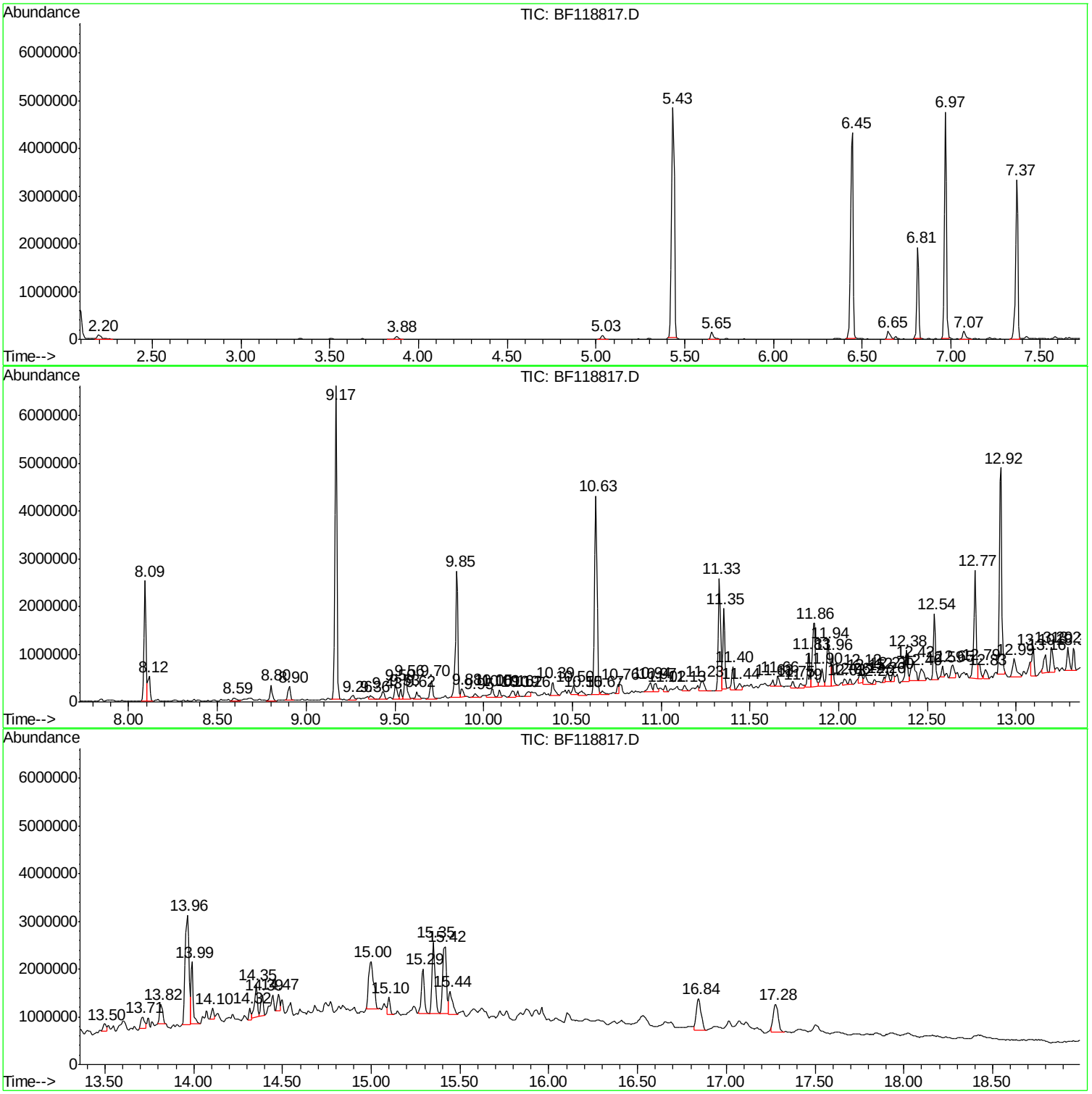
Acq On : 4 Feb 2020 22:35
Operator : CG/JU
Sample : L1383-09
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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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Instrument : BNA_F
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

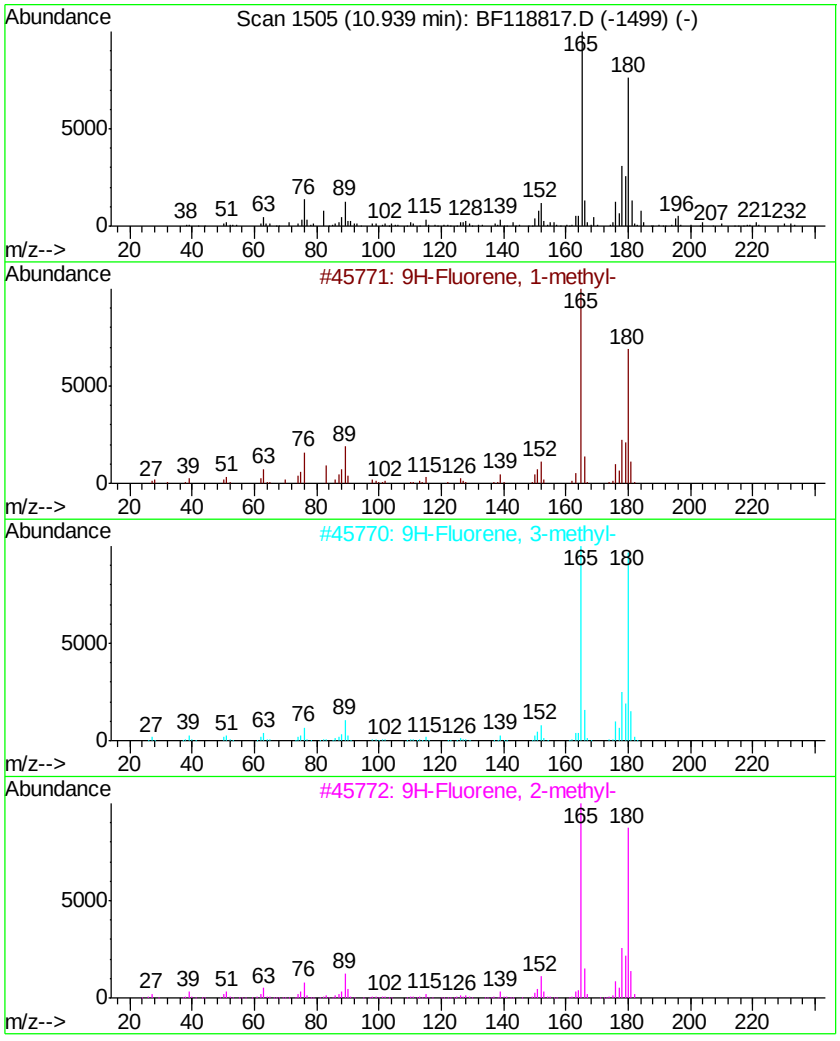
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

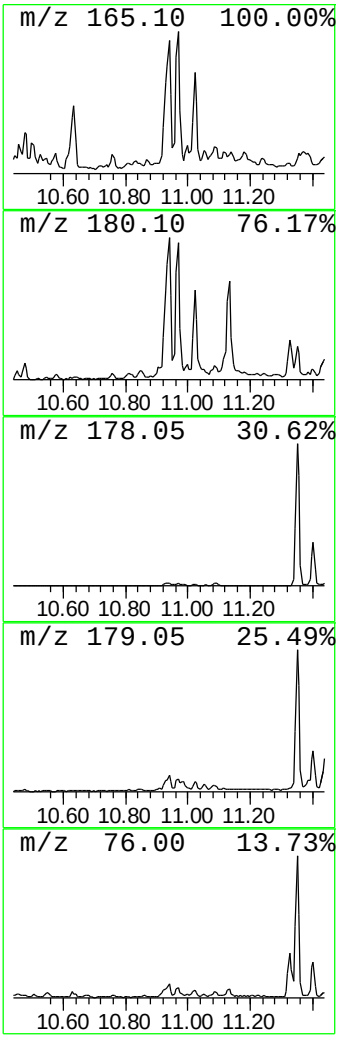
****

Peak Number 2 9H-Fluorene, 1-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.94	2.83 ng	298580	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	95
2	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	94
3	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	90
4	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	90
5	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	89





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Sample : L1383-09
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Instrument : BNA_F
ClientSampleId : TP-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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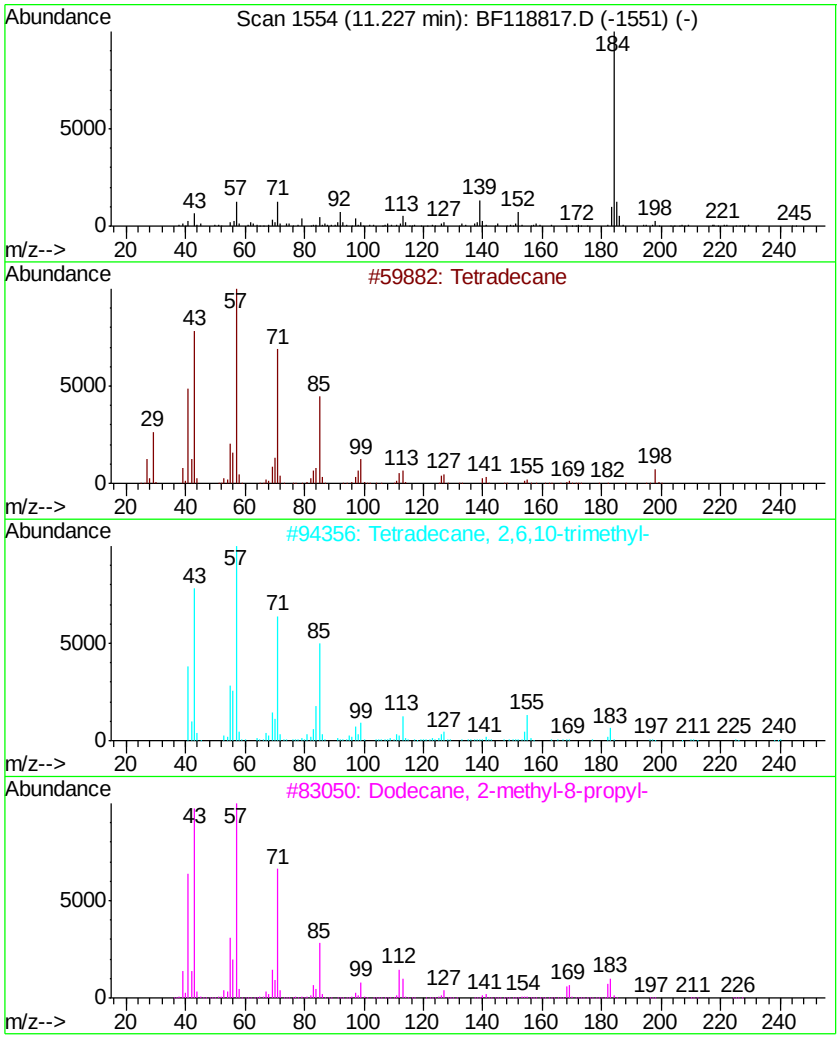
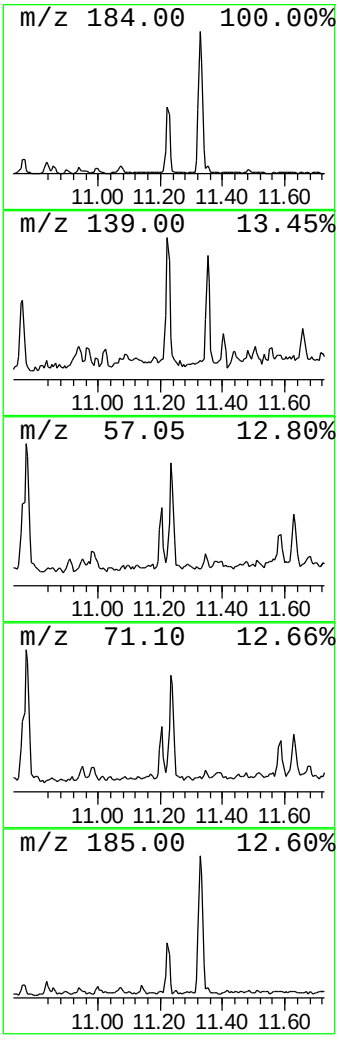
****

Peak Number 3 Tetradecane Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.23	3.02 ng	318344	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane	198	C14H30	000629-59-4	70
2	Tetradecane, 2,6,10-trimethyl-	240	C17H36	014905-56-7	70
3	Dodecane, 2-methyl-8-propyl-	226	C16H34	055045-07-3	62
4	Hexacosane	366	C26H54	000630-01-3	58
5	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	58





Library Search Compound Report

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TIC Library : C:\DATABASE\NIST11.L
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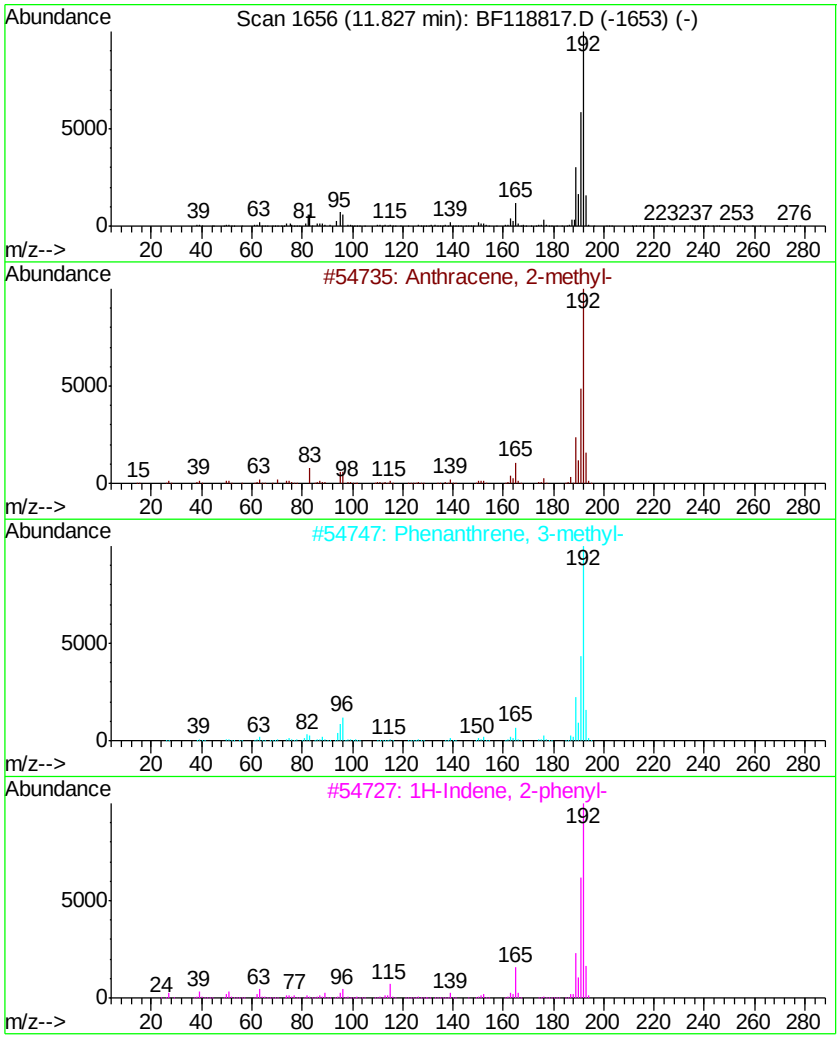
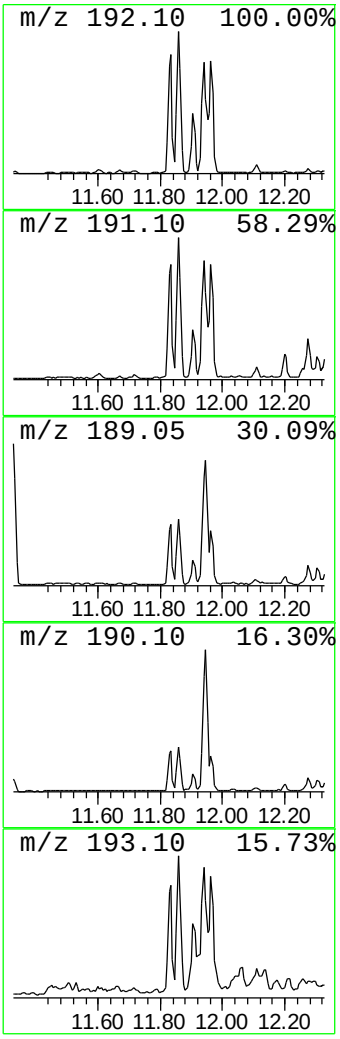
Peak Number 4 Anthracene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.83	7.04 ng	742638	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
2	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	91
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	90
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	89





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Instrument : BNA_F
ClientSampleId : TP-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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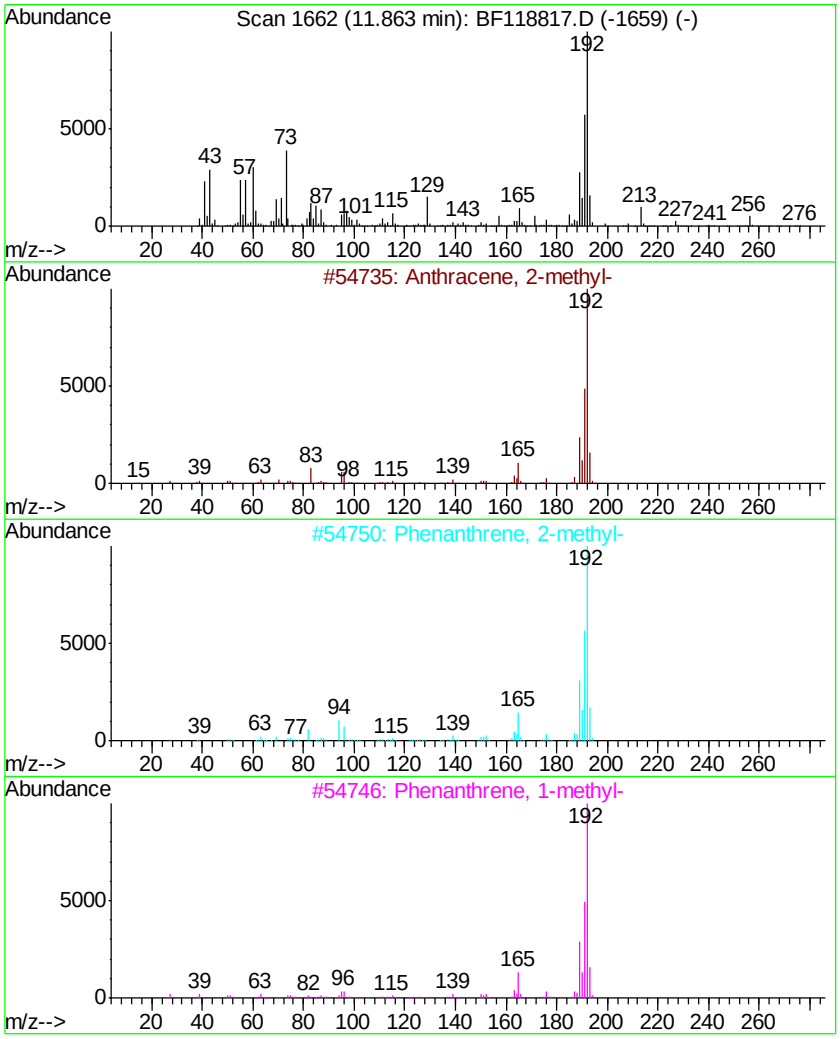
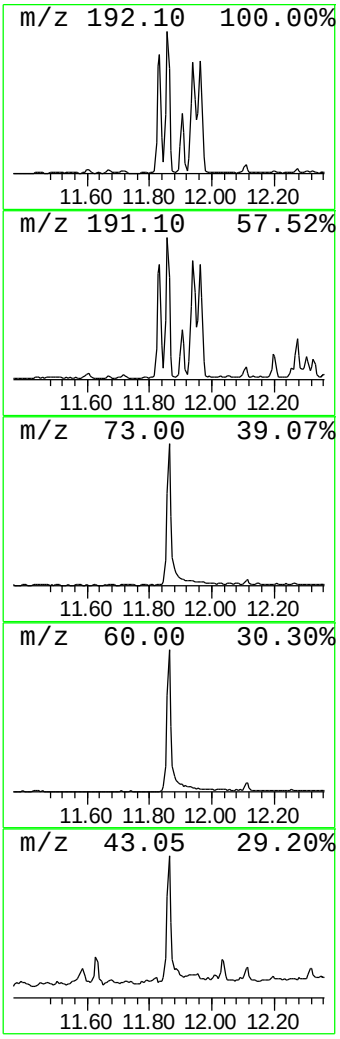
Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.86	13.58 ng	1431810	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	96
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96





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ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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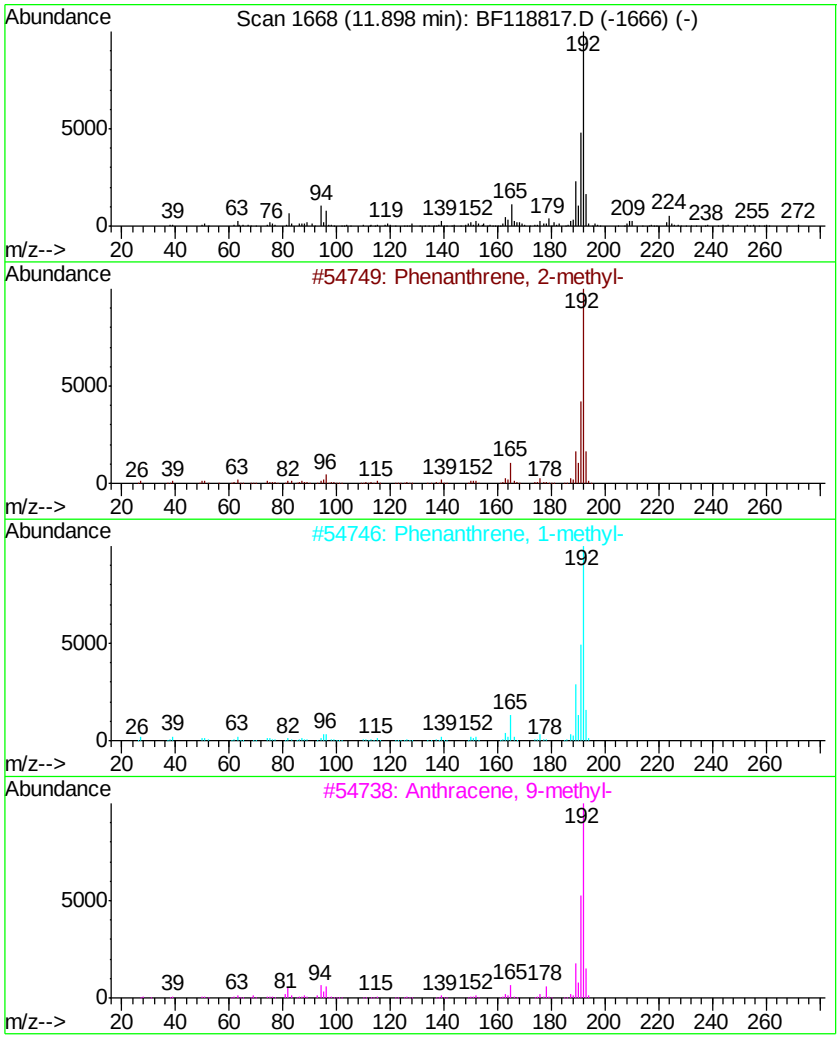
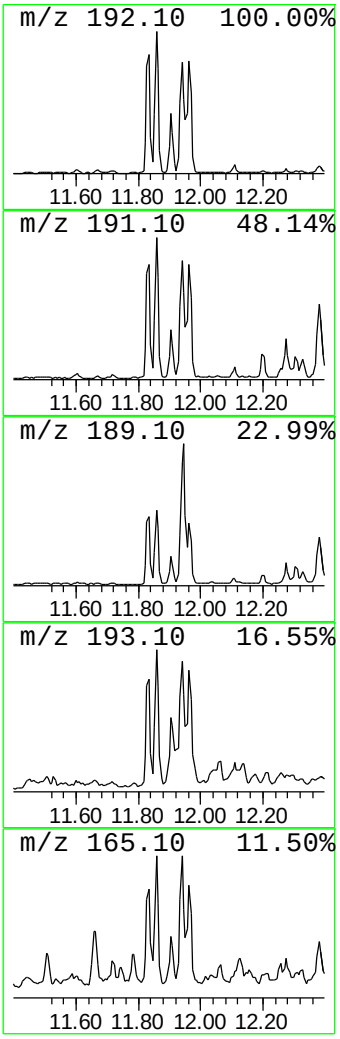
Peak Number 6 Phenanthrene, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	3.75 ng	395154	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93





Library Search Compound Report

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Sample : L1383-09
Misc :
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Instrument : BNA_F
ClientSampleId : TP-C

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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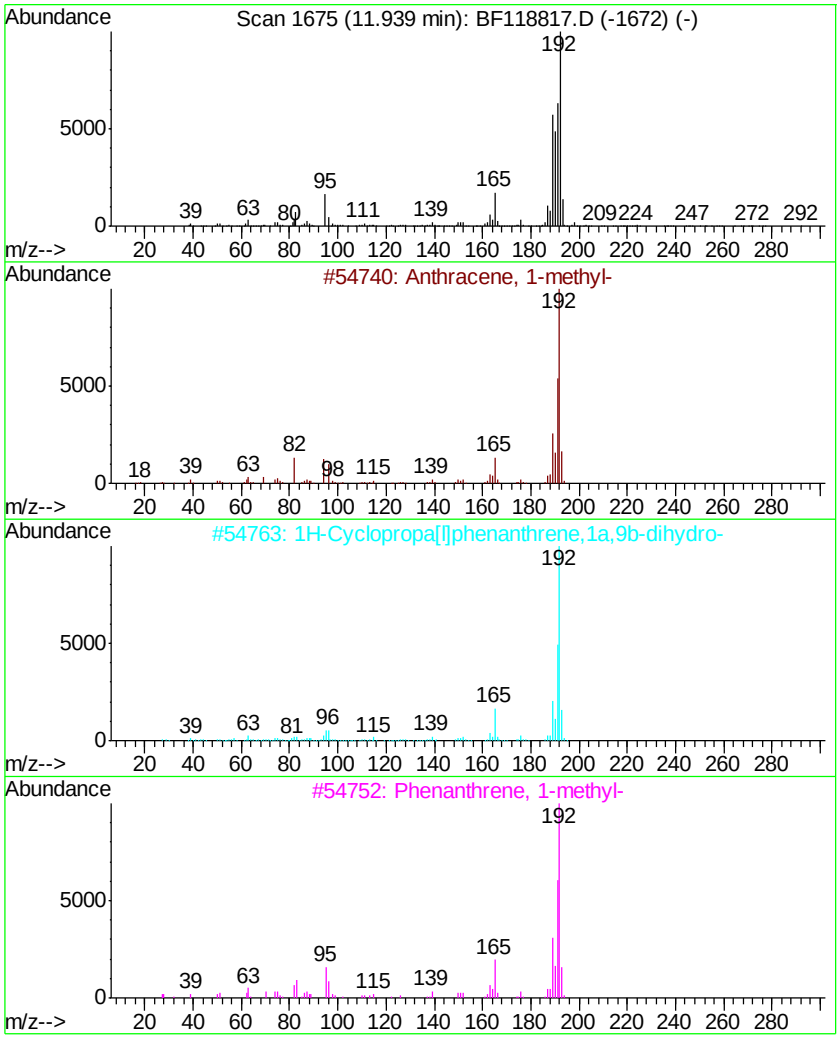
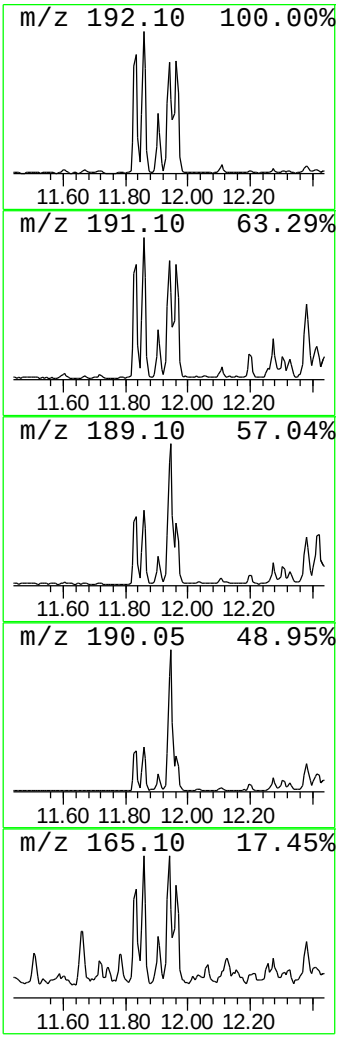
Peak Number 7 Anthracene, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.94	10.91 ng	1150990	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	78
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	64
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	64
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	60
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	55





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Instrument : BNA_F
ClientSampleId : TP-C

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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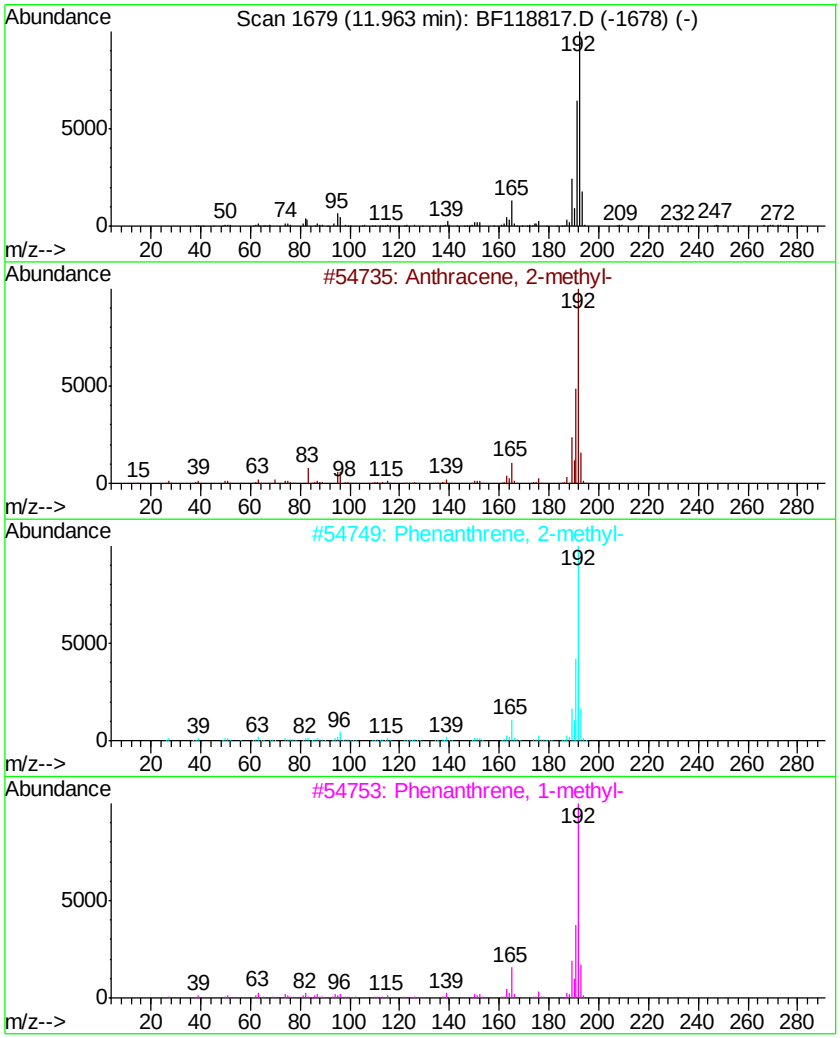
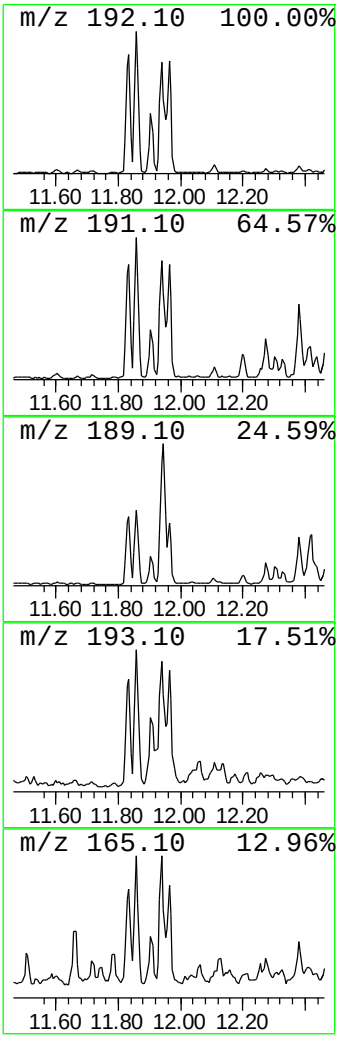
Peak Number 8 Anthracene, 9-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	4.43 ng	466815	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	87
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87





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ClientSampleId : TP-C

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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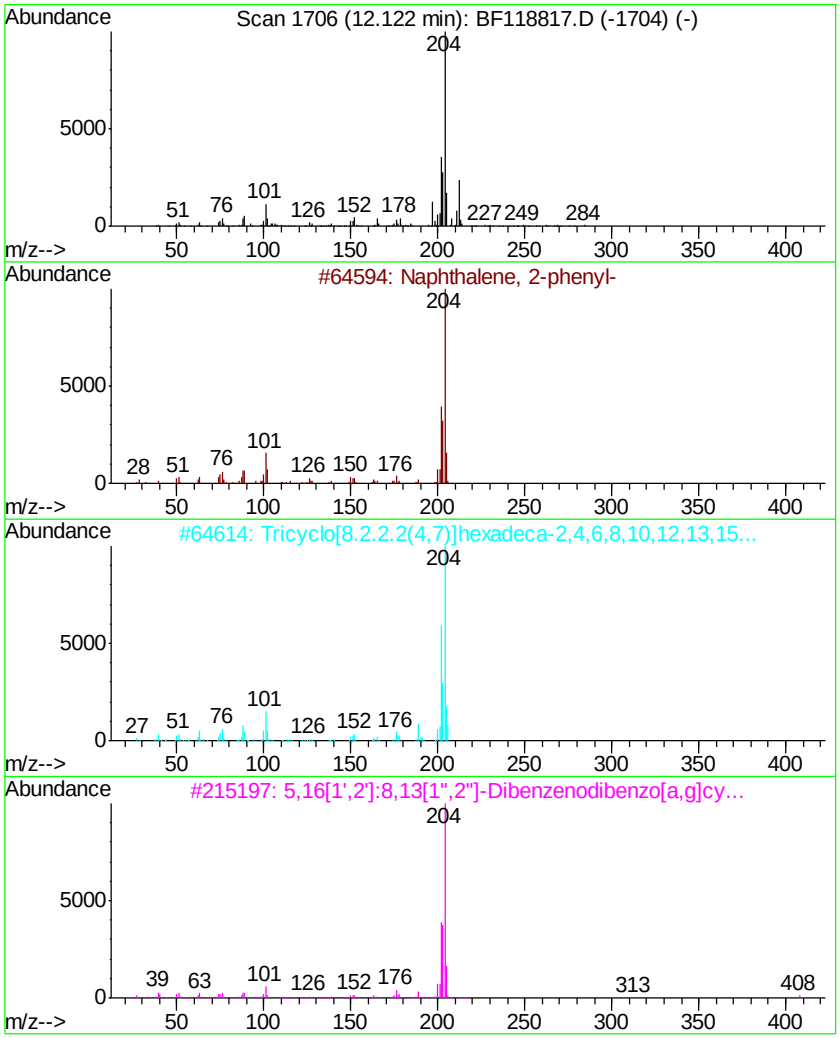
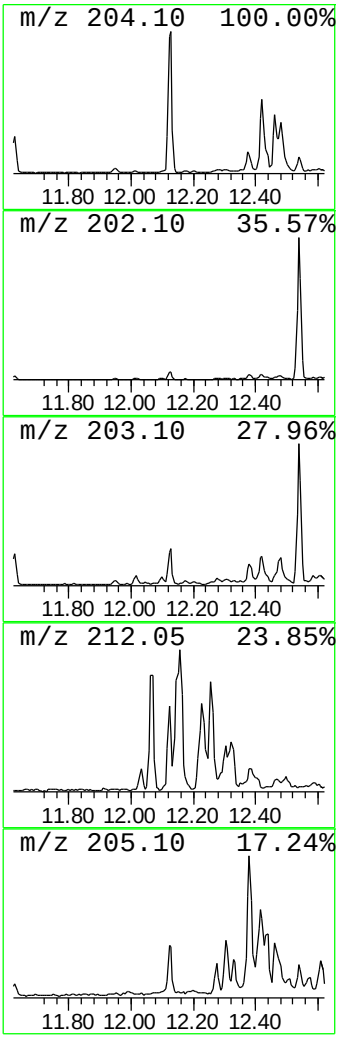
Peak Number 9 Naphthalene, 2-phenyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	2.66 ng	280363	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	64
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	64
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	58
4	Benzene, 1,1'-(1-buten-3-yne-1,4...	204	C16H12	013141-45-2	46
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	46





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ClientSampleId : TP-C

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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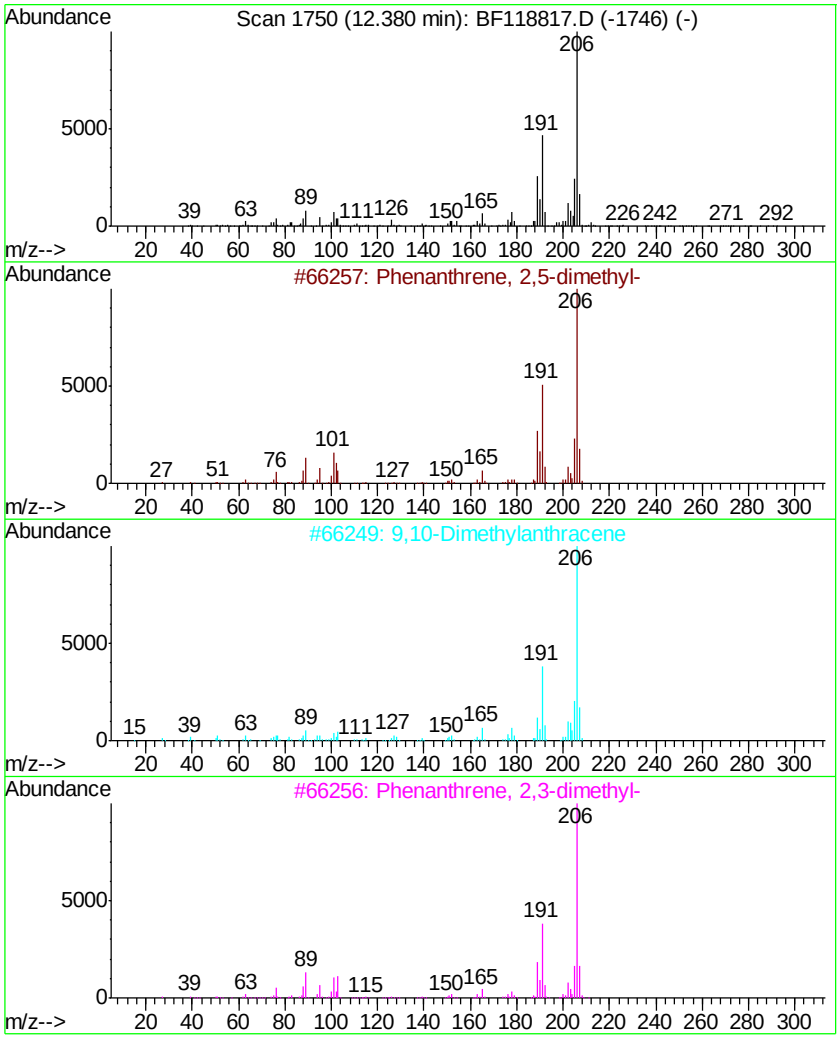
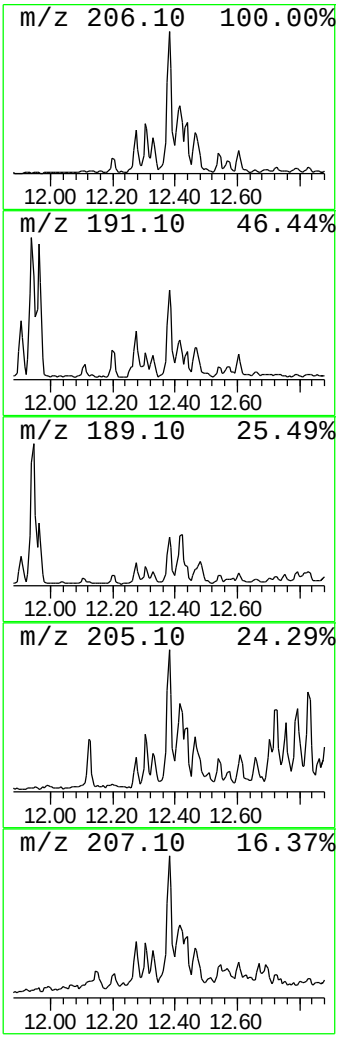
Peak Number 10 Phenanthrene, 2,5-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.38	6.43 ng	677850	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	91
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	86





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ALS Vial : 19 Sample Multiplier: 1

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ClientSampleId : TP-C

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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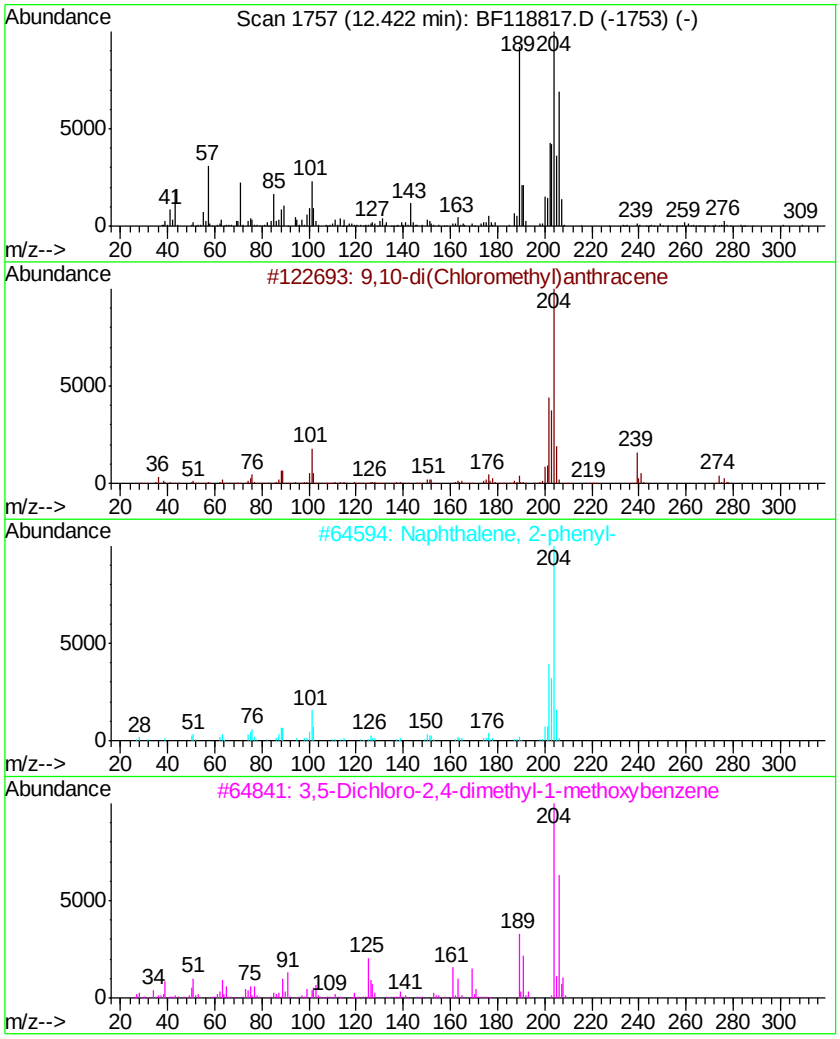
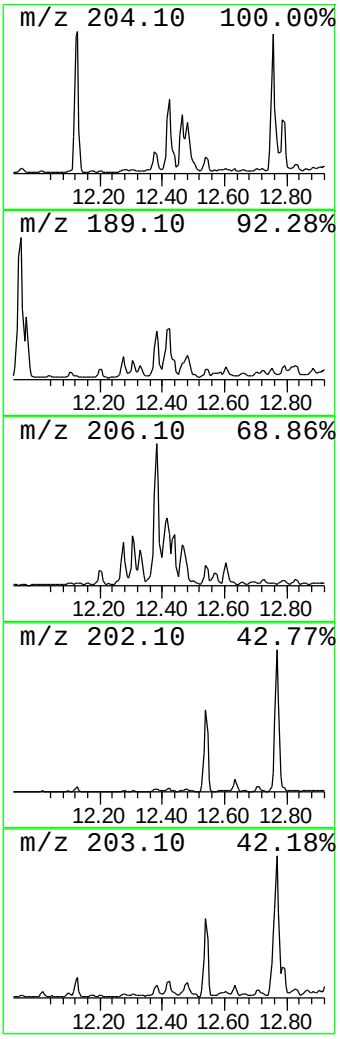
Peak Number 11 unknown12.42 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	6.27 ng	661468	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	43
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	42
3	3,5-Dichloro-2,4-dimethyl-1-meth...	204	C9H10Cl2O	1000250-17-8	38
4	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	38
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	27





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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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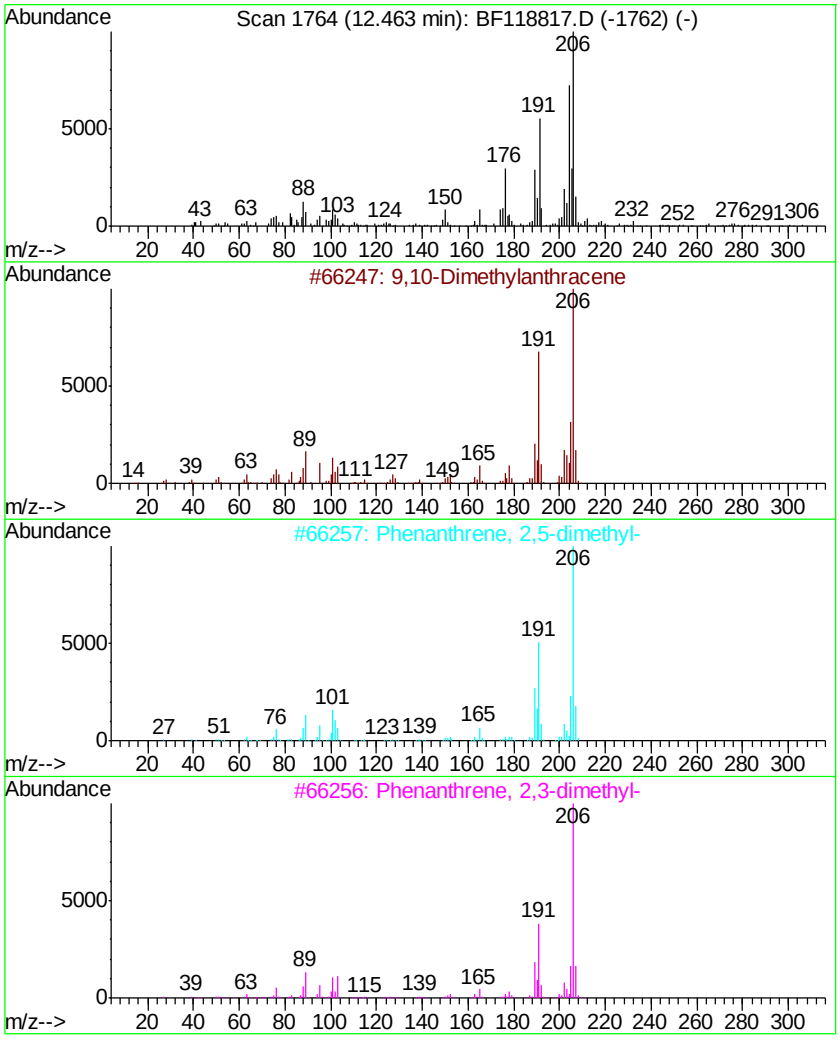
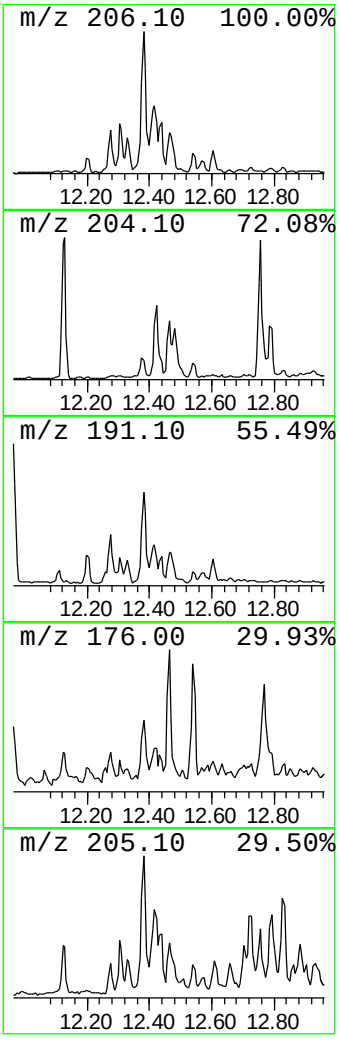
Peak Number 12 9,10-Dimethylanthracene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	3.45 ng	363907	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	92
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	83
4	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	78
5	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	60





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Misc :
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ClientSampleId : TP-C

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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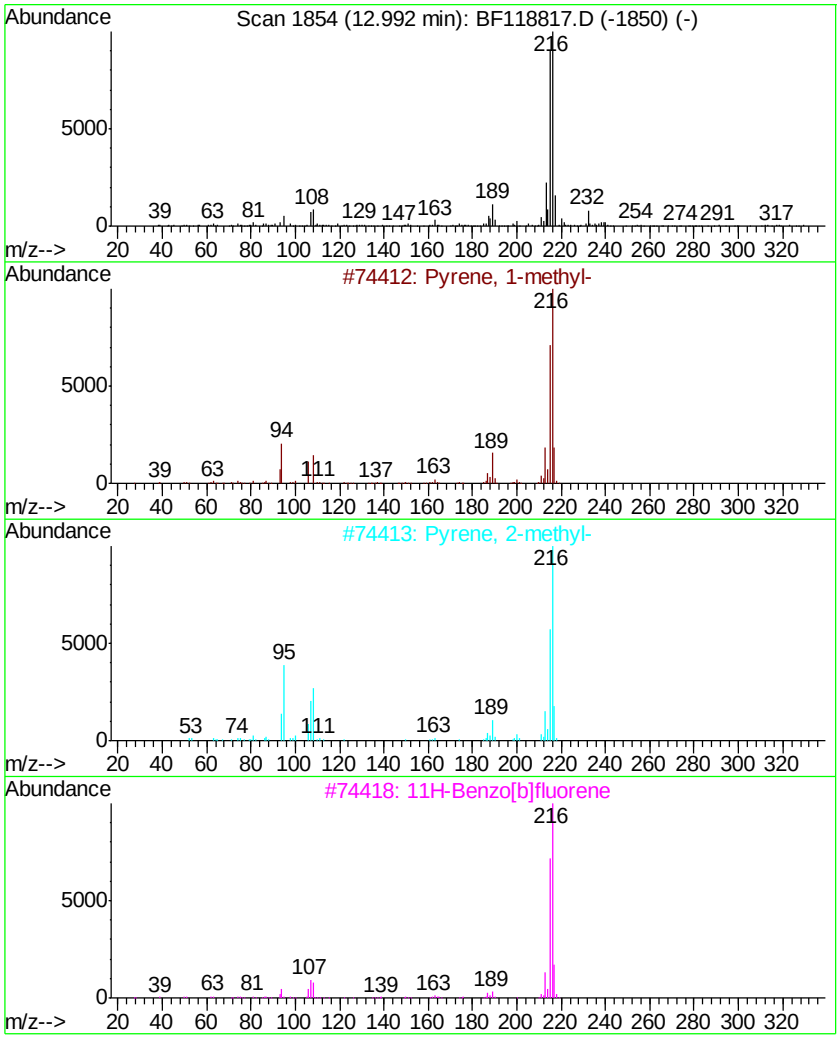
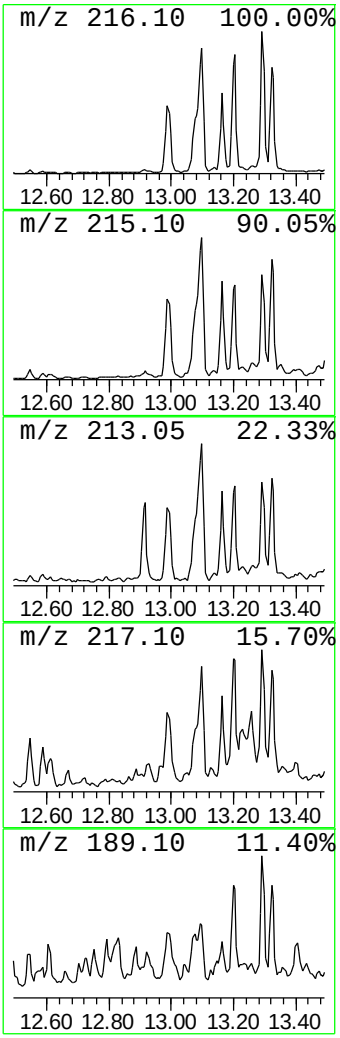
Peak Number 13 Pyrene, 1-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	3.32 ng	540889	Chrysene-d12	13.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	86
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	81
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	76





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

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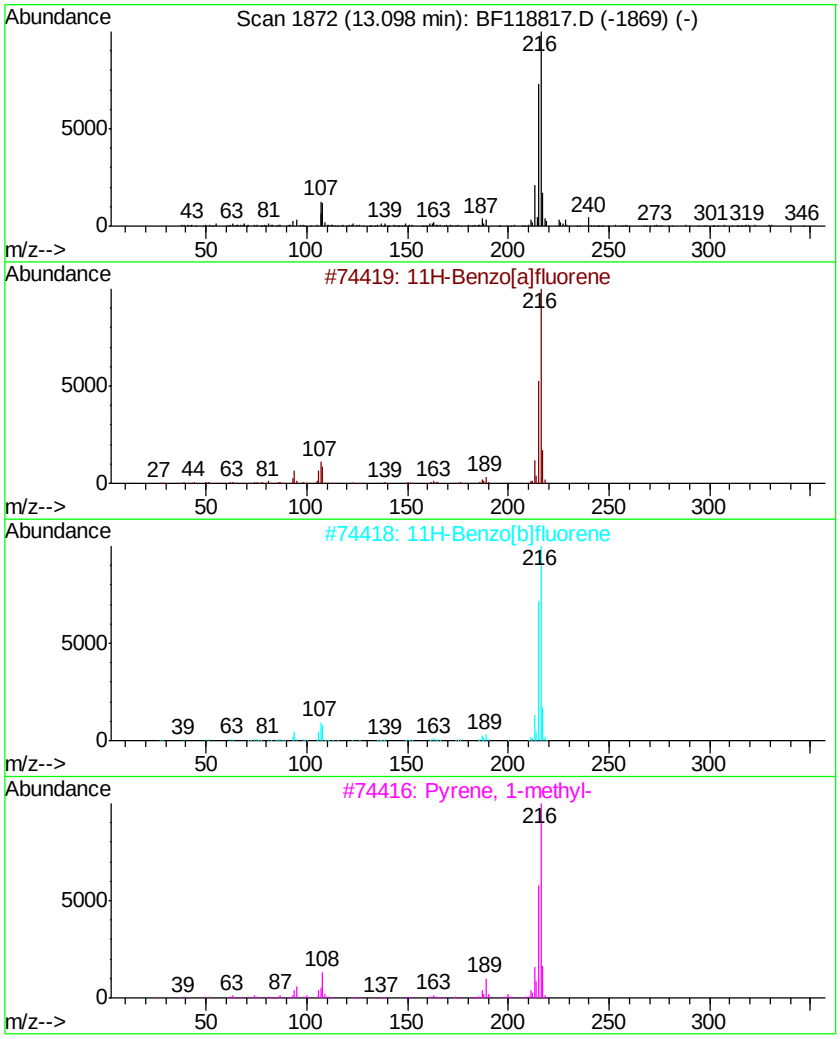
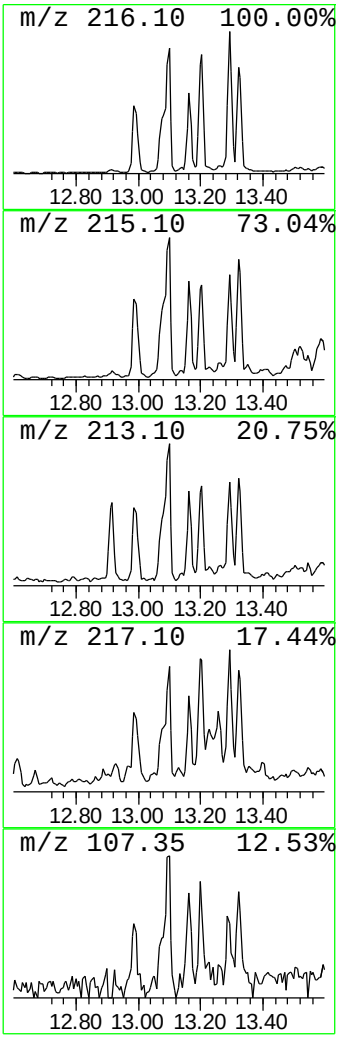
Peak Number 14 11H-Benzo[a]fluorene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.10	3.60 ng	586734	Chrysene-d12	13.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	80
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	72
5	Pyrene, 4-methyl-	216	C17H12	003353-12-6	70





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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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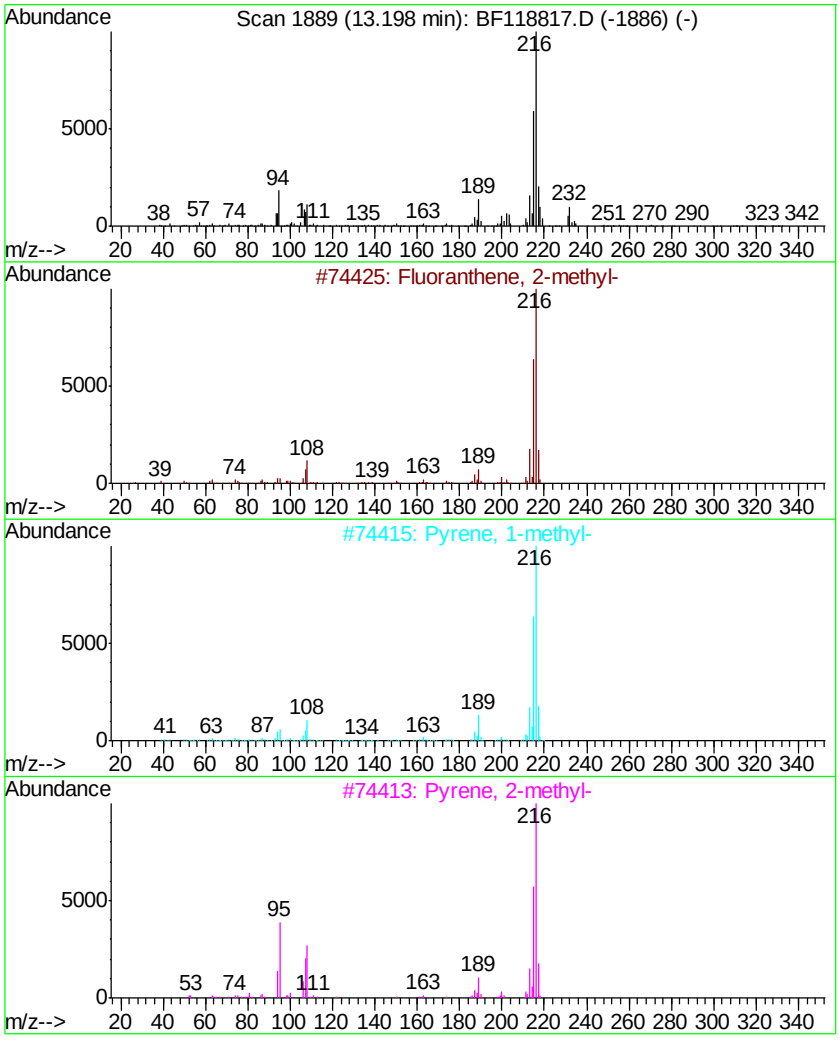
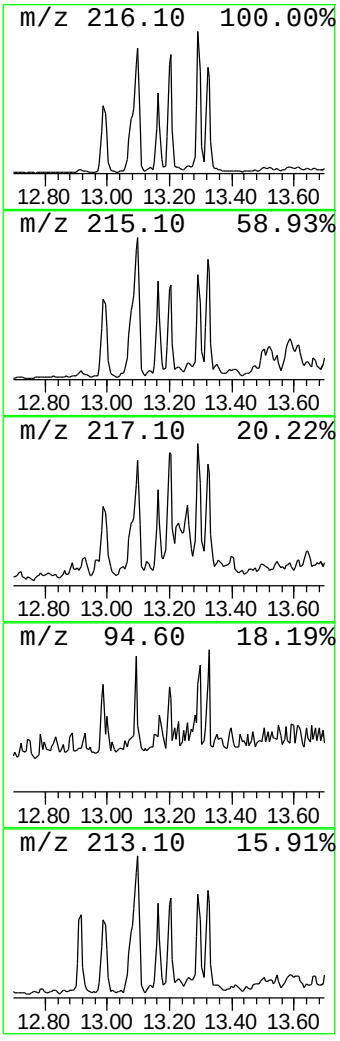
Peak Number 15 Fluoranthene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.20	3.23 ng	526322	Chrysene-d12	13.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	96
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
4	Pyrene, 4-methyl-	216	C17H12	003353-12-6	92
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	81





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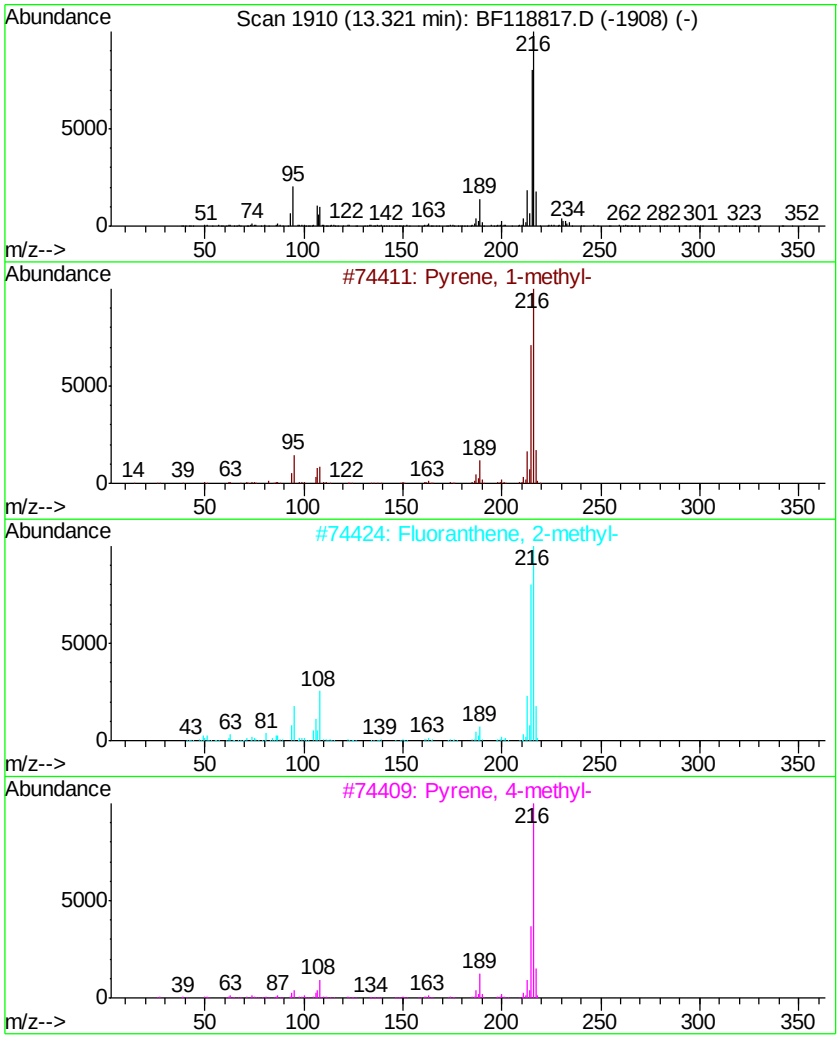
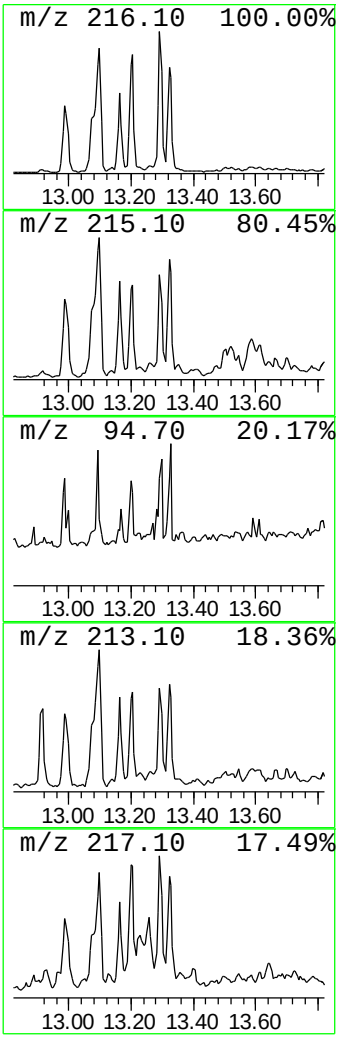
Peak Number 16 Pyrene, 4-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.32	2.53 ng	411139	Chrysene-d12	13.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
3	Pyrene, 4-methyl-	216	C17H12	003353-12-6	90
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	83





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Instrument : BNA_F
ClientSampleId : TP-C

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

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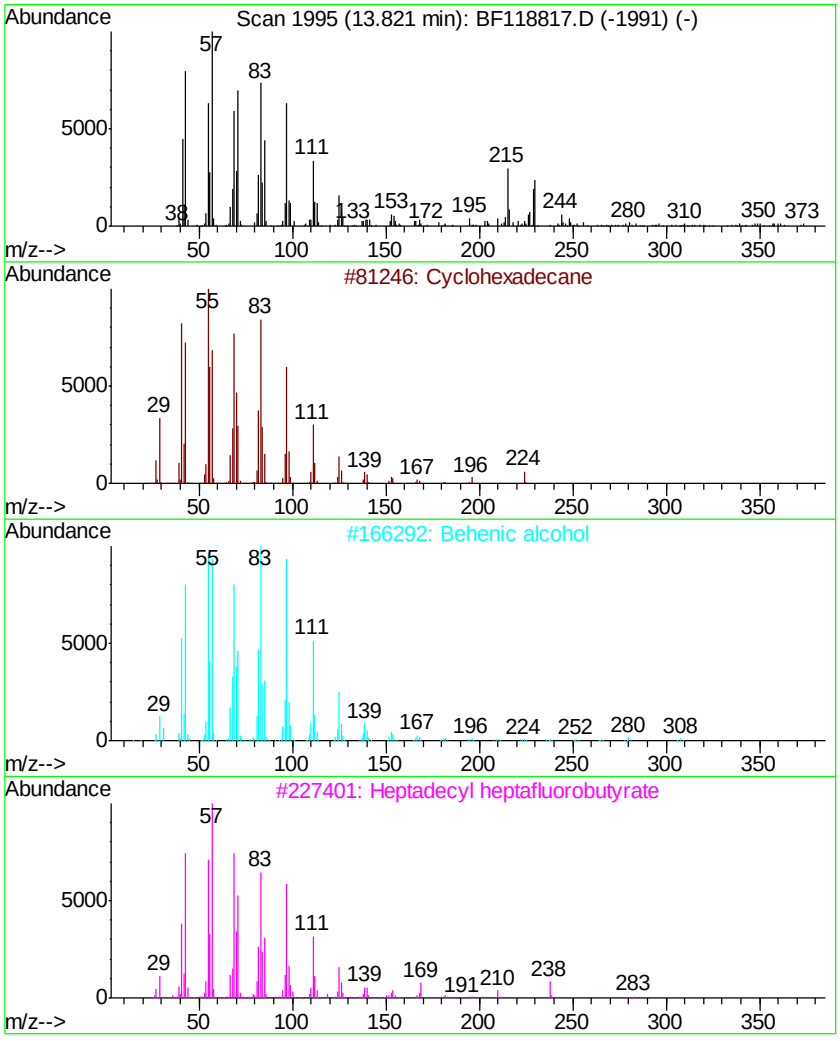
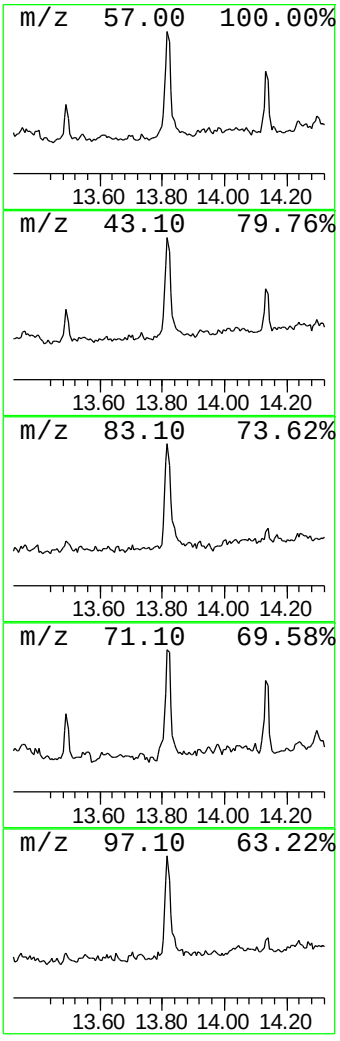
Peak Number 17 Cyclohexadecane Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.82	2.67 ng	433963	Chrysene-d12	13.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexadecane	224	C16H32	000295-65-8	93
2	Behenic alcohol	326	C22H46O	000661-19-8	93
3	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	90
4	Trifluoroacetic acid, pentadecyl...	324	C17H31F3O2	959010-23-2	86
5	9-Eicosene, (E)-	280	C20H40	074685-29-3	78





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Instrument : BNA_F
ClientSampleId : TP-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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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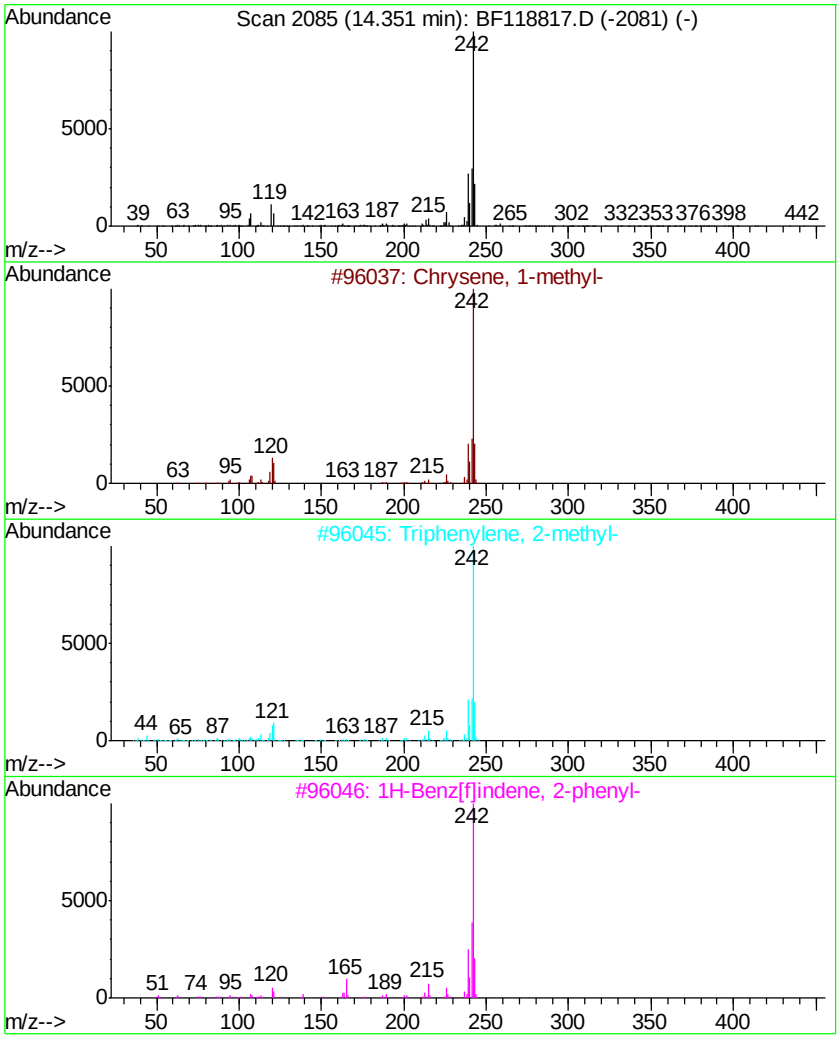
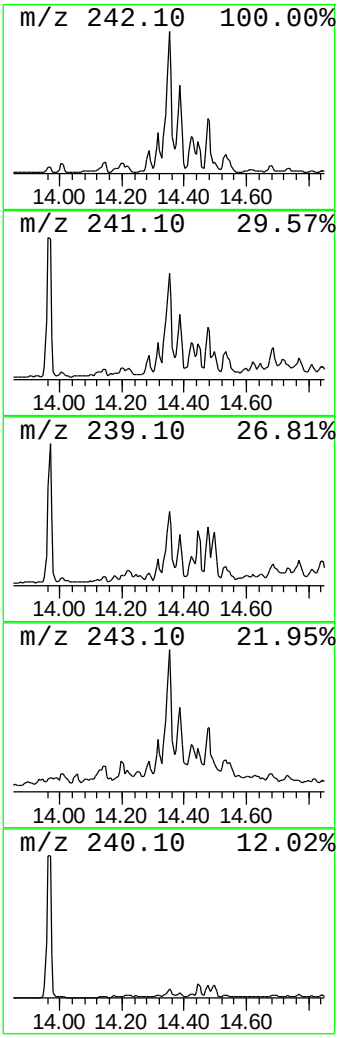
Peak Number 18 Chrysene, 1-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.35	4.96 ng	807362	Chrysene-d12	13.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chrysene, 1-methyl-	242	C19H14	003351-28-8	93
2	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	91
3	1H-Benz[f]indene, 2-phenyl-	242	C19H14	1000305-22-4	90
4	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	90
5	Benz[a]anthracene, 1-methyl-	242	C19H14	002498-77-3	89





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Acq On : 4 Feb 2020 22:35
Operator : CG/JU
Sample : L1383-09
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-C

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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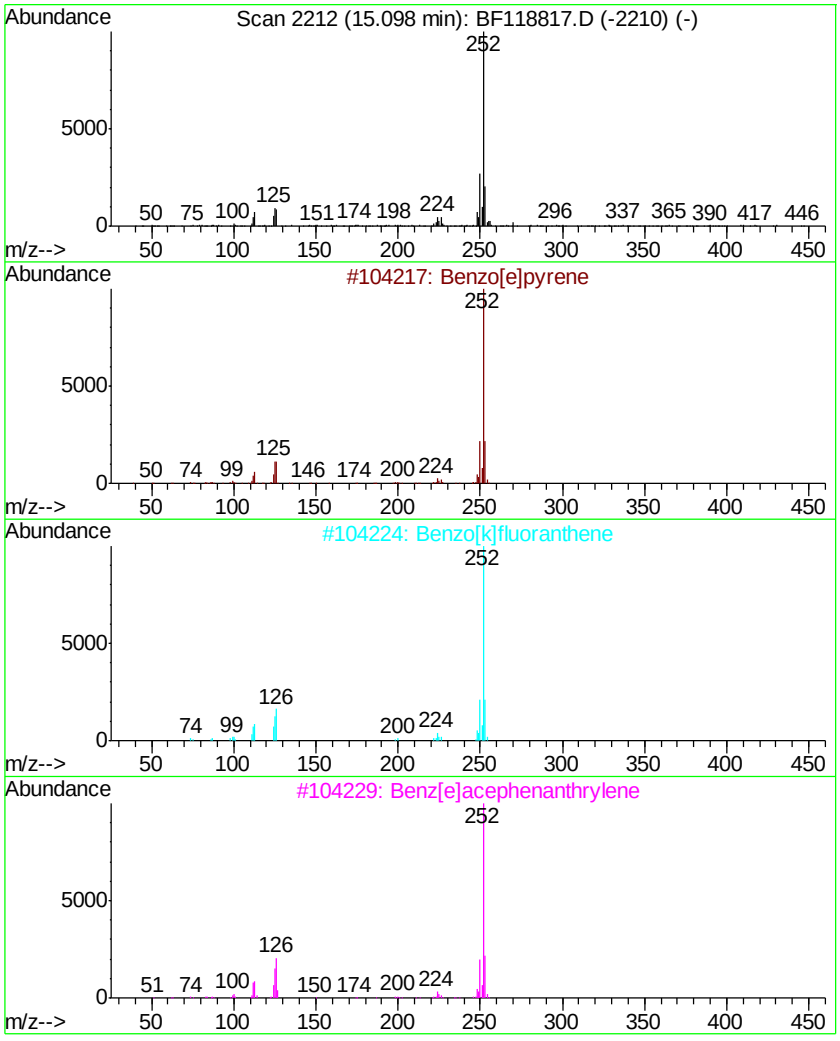
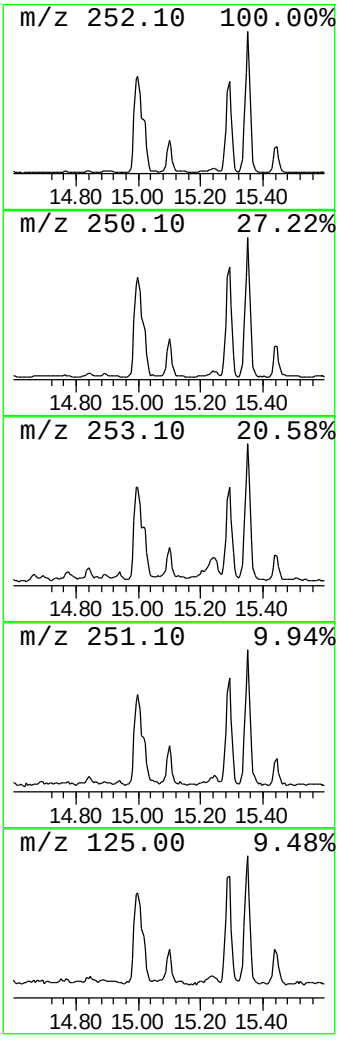
Peak Number 19 Benzo[e]pyrene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.10	3.50 ng	336961	Perylene-d12	15.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	95
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	91
4	Benzo[a]pyrene	252	C20H12	000050-32-8	81
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	81





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Data File : BF118817.D
Acq On : 4 Feb 2020 22:35
Operator : CG/JU
Sample : L1383-09
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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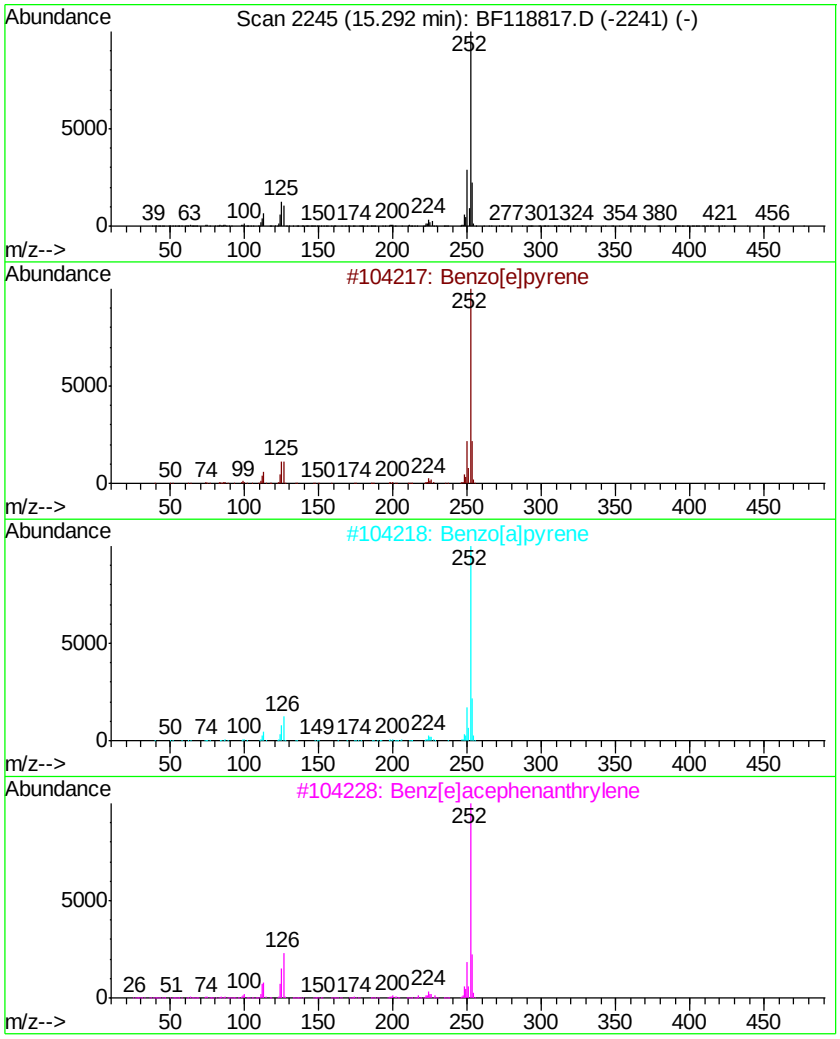
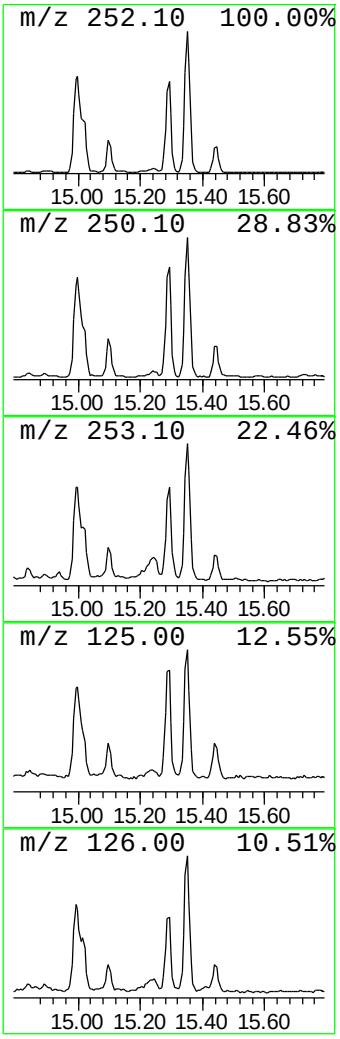
Peak Number 20 Benzo[j]fluoranthene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.29	12.07 ng	1163470	Perylene-d12	15.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	94
2	Benzo[a]pyrene	252	C20H12	000050-32-8	93
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF020420\
Data File : BF118817.D
Acq On : 4 Feb 2020 22:35
Operator : CG/JU
Sample : L1383-09
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
9H-Fluorene, 1-me...	10.94	2.8	ng	298580	4	11.33	2109290	20.0
Tetradecane	11.23	3.0	ng	318344	4	11.33	2109290	20.0
Anthracene, 2-met...	11.83	7.0	ng	742638	4	11.33	2109290	20.0
Phenanthrene, 2-m...	11.86	13.6	ng	1431810	4	11.33	2109290	20.0
Phenanthrene, 1-m...	11.90	3.8	ng	395154	4	11.33	2109290	20.0
Anthracene, 1-met...	11.94	10.9	ng	1150990	4	11.33	2109290	20.0
Anthracene, 9-met...	11.96	4.4	ng	466815	4	11.33	2109290	20.0
Naphthalene, 2-ph...	12.12	2.7	ng	280363	4	11.33	2109290	20.0
Phenanthrene, 2,5...	12.38	6.4	ng	677850	4	11.33	2109290	20.0
unknown12.42	12.42	6.3	ng	661468	4	11.33	2109290	20.0
9,10-Dimethylanth...	12.46	3.5	ng	363907	4	11.33	2109290	20.0
Pyrene, 1-methyl-	12.99	3.3	ng	540889	5	13.96	3255520	20.0
11H-Benzo[a]fluorene	13.10	3.6	ng	586734	5	13.96	3255520	20.0
Fluoranthene, 2-m...	13.20	3.2	ng	526322	5	13.96	3255520	20.0
Pyrene, 4-methyl-	13.32	2.5	ng	411139	5	13.96	3255520	20.0
Cyclohexadecane	13.82	2.7	ng	433963	5	13.96	3255520	20.0
Chrysene, 1-methyl-	14.35	5.0	ng	807362	5	13.96	3255520	20.0
Benzo[e]pyrene	15.10	3.5	ng	336961	6	15.42	1927370	20.0
Benzo[j]fluoranthene	15.29	12.1	ng	1163470	6	15.42	1927370	20.0