LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100819\
Data File : BF117352.D
Acq On : 8 Oct 2019 20:30
Operator : JU
Sample : K5147-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-100719

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-BF091319.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	5.422	564	567	584	rBV	225573	346816	44.88%	2.658%
2	6.440	737	740	755	rBV	304409	429969	55.64%	3.296%
3	6.569	759	762	771	rVV	411398	438236	56.71%	3.359%
4	6.798	797	801	808	rBV	267075	257454	33.32%	1.973%
5	6.951	824	827	839	rBV	326368	347229	44.94%	2.662%
6	7.069	844	847	850	rVB3	11983	12564	1.63%	0.096%
7	7.363	894	897	908	rBV	164709	247320	32.01%	1.896%
8	8.081	1014	1019	1026	rBV	293581	332630	43.05%	2.550%
9	8.504	1088	1091	1093	rBV2	11044	10814	1.40%	0.083%
10	8.898	1155	1158	1162	rBV3	8878	11489	1.49%	0.088%
11	9.151	1198	1201	1212	rBV	514861	538557	69.70%	4.128%
12	9.233	1212	1215	1218	rVB3	12943	13945	1.80%	0.107%
13	9.428	1244	1248	1252	rBV3	11196	17439	2.26%	0.134%
14	9.492	1257	1259	1262	rVV	21980	25194	3.26%	0.193%
15	9.551	1266	1269	1277	rVV2	58404	85059	11.01%	0.652%
16	9.610	1277	1279	1286	rVB3	13105	16159	2.09%	0.124%
17	9.698	1291	1294	1299	rBV	129111	137154	17.75%	1.051%
18	9.763	1303	1305	1310	rVB2	13078	12219	1.58%	0.094%
19	9.833	1313	1317	1321	rVV	447501	382355	49.48%	2.931%
20	9.863	1321	1322	1327	rVB2	24328	23797	3.08%	0.182%
21	9.945	1332	1336	1341	rBV7	9308	13319	1.72%	0.102%
22	10.039	1348	1352	1356	rBV5	15217	22072	2.86%	0.169%
23	10.080	1356	1359	1363	rVB3	17348	18053	2.34%	0.138%
24	10.151	1367	1371	1374	rBV	18163	20964	2.71%	0.161%
25	10.239	1382	1386	1388	rBV3	13664	15474	2.00%	0.119%
26	10.263	1388	1390	1392	rVB	21522	15017	1.94%	0.115%
27	10.292	1392	1395	1397	rBV	13750	12300	1.59%	0.094%
28	10.386	1408	1411	1416	rBV2	30018	38385	4.97%	0.294%
29	10.486	1423	1428	1434	rBV7	13645	25306	3.27%	0.194%
30	10.627	1449	1452	1462	rVB	199334	230415	29.82%	1.766%
31	10.751	1468	1473	1479	rVB5	28832	46084	5.96%	0.353%
32	10.933	1499	1504	1507	rBV3	18960	27167	3.52%	0.208%
33	10.957	1507	1508	1511	rVV2	16122	15070	1.95%	0.116%
34	11.016	1515	1518	1521	rVV	13572	13041	1.69%	0.100%

LSC Area Percent Report

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Data File : BF117352.D
Acq On : 8 Oct 2019 20:30
Operator : JU
Sample : K5147-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-100719

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-BF091319.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.057	1523	1525	1527	rVV2	12219	13315	1.72%	0.102%
36	11.080	1527	1529	1535	rVV6	16574	24257	3.14%	0.186%
37	11.133	1535	1538	1542	rVV4	12804	19136	2.48%	0.147%
38	11.180	1542	1546	1549	rVV3	30635	32968	4.27%	0.253%
39	11.216	1549	1552	1557	rVB2	26035	35810	4.63%	0.274%
40	11.322	1567	1570	1572	rBV	373300	327546	42.39%	2.511%
41	11.345	1572	1574	1580	rVB	290710	256492	33.19%	1.966%
42	11.398	1580	1583	1587	rBV	78437	78027	10.10%	0.598%
43	11.563	1607	1611	1616	rBV2	23179	39592	5.12%	0.303%
44	11.610	1616	1619	1622	rVV3	39083	35195	4.55%	0.270%
45	11.657	1622	1627	1632	rVB4	21430	32467	4.20%	0.249%
46	11.710	1632	1636	1637	rBV3	14410	14026	1.82%	0.108%
47	11.739	1637	1641	1645	rVB2	13115	16258	2.10%	0.125%
48	11.822	1652	1655	1658	rBV	81912	82853	10.72%	0.635%
49	11.851	1658	1660	1664	rVV	104013	106127	13.73%	0.813%
50	11.904	1666	1669	1671	rVV	32364	31404	4.06%	0.241%
51	11.933	1671	1674	1677	rVV2	125827	150269	19.45%	1.152%
52	11.957	1677	1678	1682	rVV	63069	49827	6.45%	0.382%
53	12.016	1685	1688	1693	rVB4	26457	23405	3.03%	0.179%
54	12.057	1693	1695	1698	rBV3	15903	13585	1.76%	0.104%
55	12.116	1702	1705	1709	rBV	51931	51791	6.70%	0.397%
56	12.157	1709	1712	1716	rVB3	28890	33776	4.37%	0.259%
57	12.245	1726	1727	1729	rBV2	13553	13520	1.75%	0.104%
58	12.269	1729	1731	1734	rVV	25195	22112	2.86%	0.169%
59	12.298	1734	1736	1739	rVV	38311	32503	4.21%	0.249%
60	12.327	1739	1741	1743	rVB	25722	18711	2.42%	0.143%
61	12.374	1745	1749	1751	rBV	104409	119664	15.49%	0.917%
62	12.410	1751	1755	1757	rVV4	90713	138329	17.90%	1.060%
63	12.433	1757	1759	1761	rVB	38098	30631	3.96%	0.235%
64	12.469	1761	1765	1768	rBV3	65625	77974	10.09%	0.598%
65	12.498	1768	1770	1773	rVB3	16034	16313	2.11%	0.125%
66	12.539	1773	1777	1781	rBV	682822	642631	83.16%	4.926%
67	12.569	1781	1782	1786	rVB3	35690	31212	4.04%	0.239%
68	12.633	1790	1793	1796	rBV	77862	72829	9.42%	0.558%
69	12.686	1799	1802	1805	rBV2	37910	48024	6.21%	0.368%
70	12.769	1810	1816	1822	rBV	748185	772726	100.00%	5.923%
71	12.821	1822	1825	1829	rVB2	56840	60698	7.86%	0.465%

LSC Area Percent Report

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Acq On : 8 Oct 2019 20:30
Operator : JU
Sample : K5147-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-100719

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-BF091319.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	12.904	1833	1839	1842	rBV	494454	500743	64.80%	3.838%
73	12.980	1849	1852	1858	rBV4	80302	146869	19.01%	1.126%
74	13.092	1864	1871	1875	rBV	121778	206996	26.79%	1.587%
75	13.127	1875	1877	1880	rVV2	39661	48944	6.33%	0.375%
76	13.163	1880	1883	1885	rVV	73272	74364	9.62%	0.570%
77	13.198	1886	1889	1894	rVV2	100783	140115	18.13%	1.074%
78	13.257	1897	1899	1902	rVV4	27262	37949	4.91%	0.291%
79	13.292	1902	1905	1908	rVV	79826	83093	10.75%	0.637%
80	13.321	1908	1910	1919	rVB3	73748	120668	15.62%	0.925%
81	13.474	1933	1936	1938	rBV	49898	49604	6.42%	0.380%
82	13.610	1956	1959	1963	rVB	65256	60956	7.89%	0.467%
83	13.716	1975	1977	1980	rBV	59189	62393	8.07%	0.478%
84	13.768	1984	1986	1988	rBV	52456	48599	6.29%	0.373%
85	13.821	1993	1995	1998	rVB	70282	56426	7.30%	0.433%
86	13.963	2015	2019	2022	rBV2	497895	747756	96.77%	5.732%
87	13.992	2022	2024	2032	rVB	363176	379166	49.07%	2.906%
88	14.074	2036	2038	2040	rBV	31876	20550	2.66%	0.158%
89	14.121	2043	2046	2052	rVB5	83651	116168	15.03%	0.890%
90	14.357	2084	2086	2090	rVB	95926	84533	10.94%	0.648%
91	14.392	2090	2092	2094	rBV	52542	37414	4.84%	0.287%
92	14.421	2095	2097	2101	rVB3	62232	66607	8.62%	0.511%
93	14.721	2146	2148	2151	rVB	54636	46386	6.00%	0.356%
94	15.010	2193	2197	2208	rVB	340608	736712	95.34%	5.647%
95	15.115	2212	2215	2220	rBV	92783	126673	16.39%	0.971%
96	15.310	2244	2248	2253	rVB	178688	227184	29.40%	1.741%
97	15.374	2255	2259	2264	rBV	246732	322682	41.76%	2.473%
98	15.427	2264	2268	2272	rBV2	182696	244656	31.66%	1.875%
99	16.892	2512	2517	2524	rVB2	152733	314692	40.72%	2.412%
100	17.333	2587	2592	2599	rVB	80458	172252	22.29%	1.320%

Sum of corrected areas: 13046219

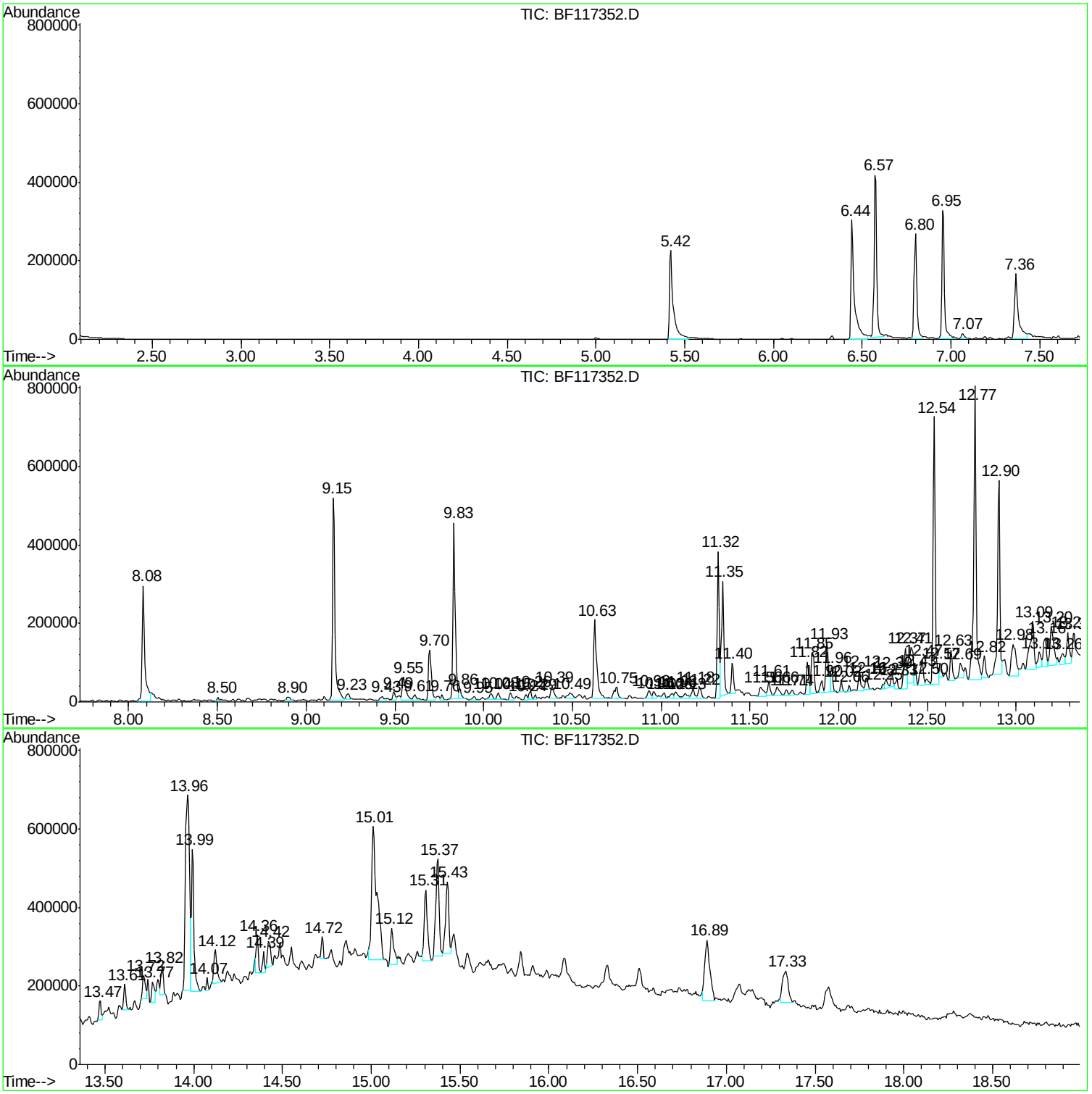
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100819\
Data File : BF117352.D
Acq On : 8 Oct 2019 20:30
Operator : JU
Sample : K5147-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-100719

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091319.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\BF100819\
Data File : BF117352.D
Acq On : 8 Oct 2019 20:30
Operator : JU
Sample : K5147-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-100719

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

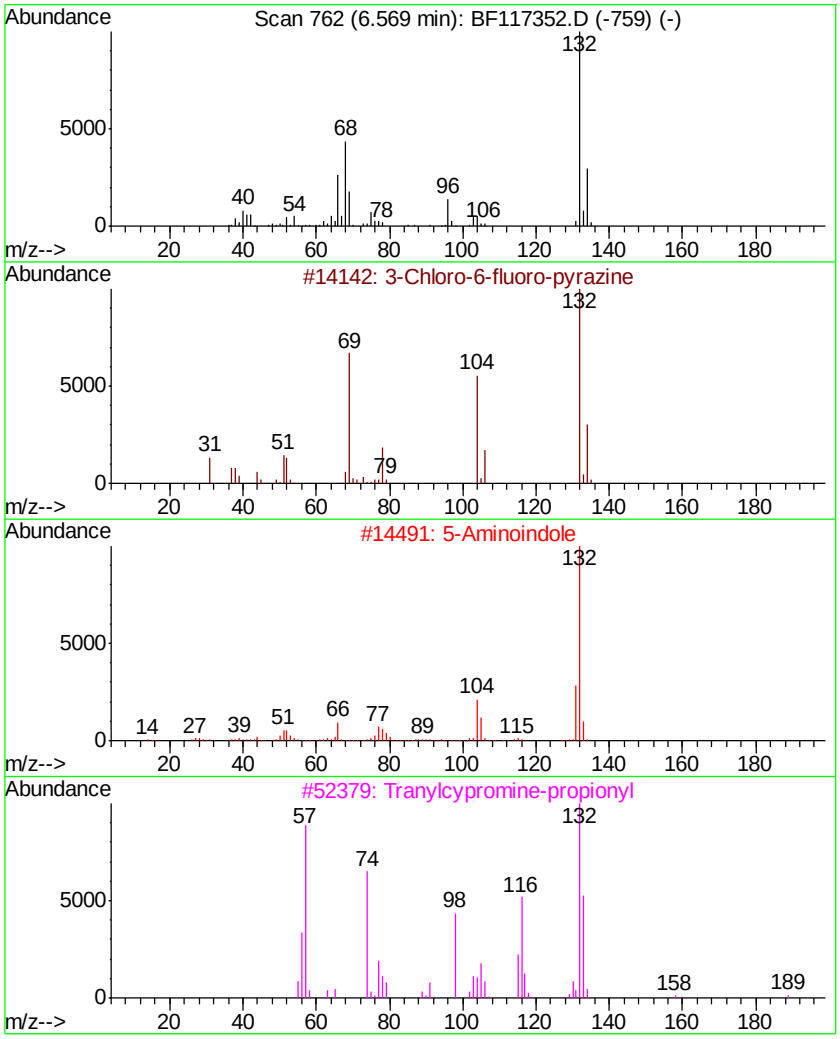
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

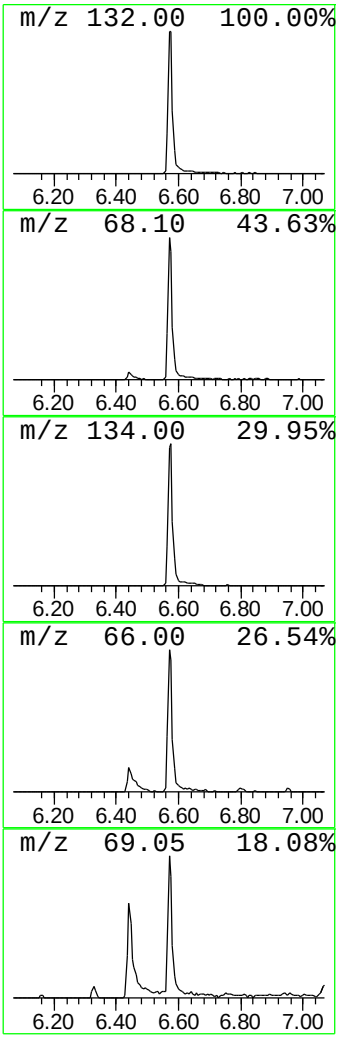
****

Peak Number 1 unknown6.57 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.57	34.04 ng	438236	1,4-Dichlorobenzene-d4	6.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	5-Aminoindole	132	C8H8N2	005192-03-0	12
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
4	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9
5	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100819\
Data File : BF117352.D
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Operator : JU
Sample : K5147-01 2X
Misc :
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Instrument : BNA_F
ClientSampleId : OK-03-100719

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091319.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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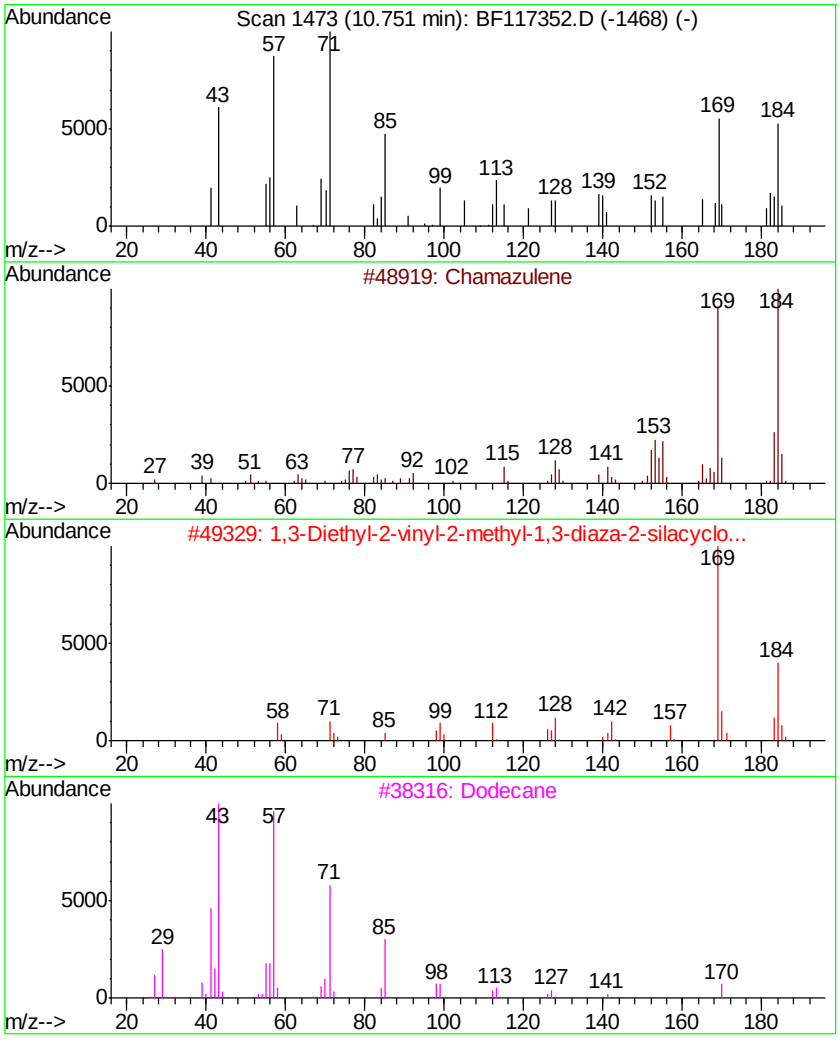
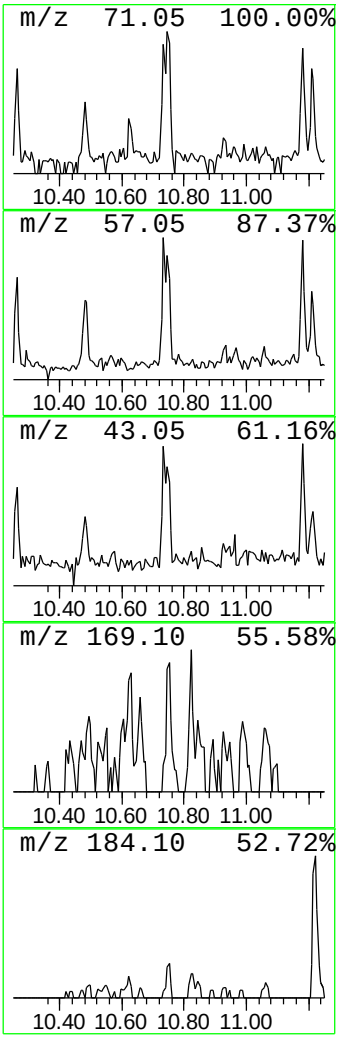
Peak Number 3 Chamazulene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.75	2.81 ng	46084	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chamazulene	184	C14H16	000529-05-5	80
2	1,3-Diethyl-2-vinyl-2-methyl-1,3...	184	C9H20N2Si	051169-45-0	50
3	Dodecane	170	C12H26	000112-40-3	43
4	Bicyclo[3.3.0]octa-2,7-diene-3,7...	184	C12H12N2	1000142-21-7	42
5	1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	38





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Instrument : BNA_F
ClientSampleId : OK-03-100719

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091319.M
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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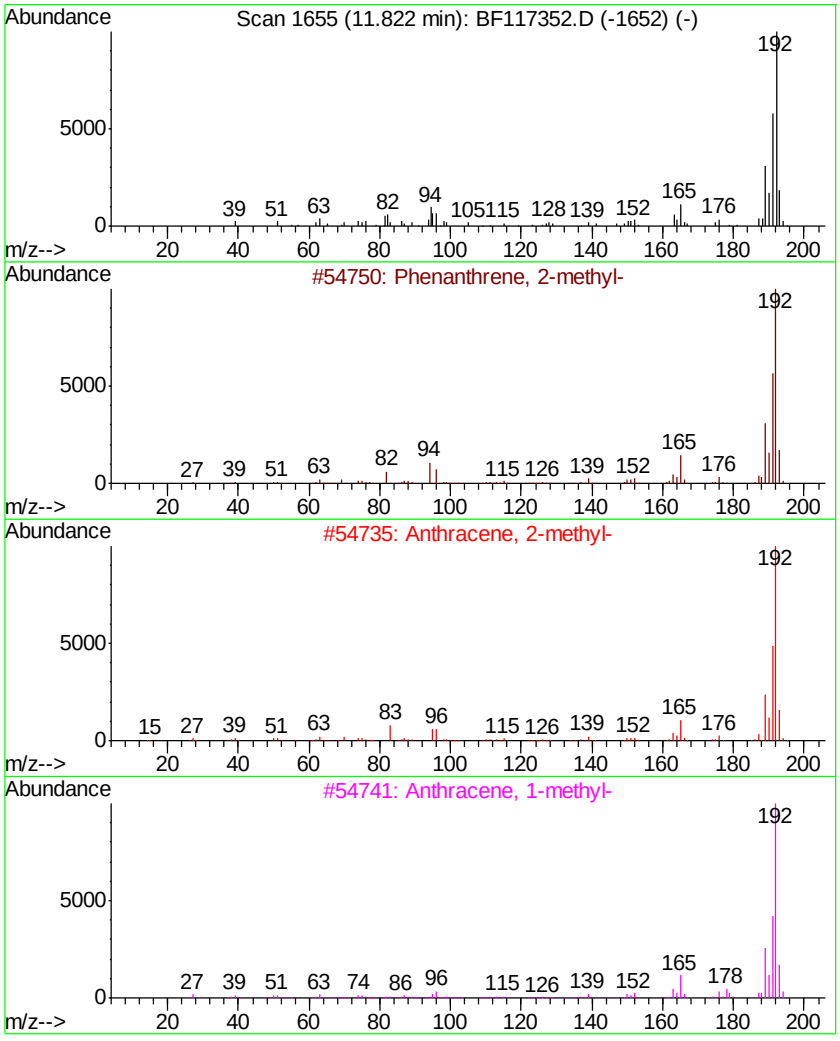
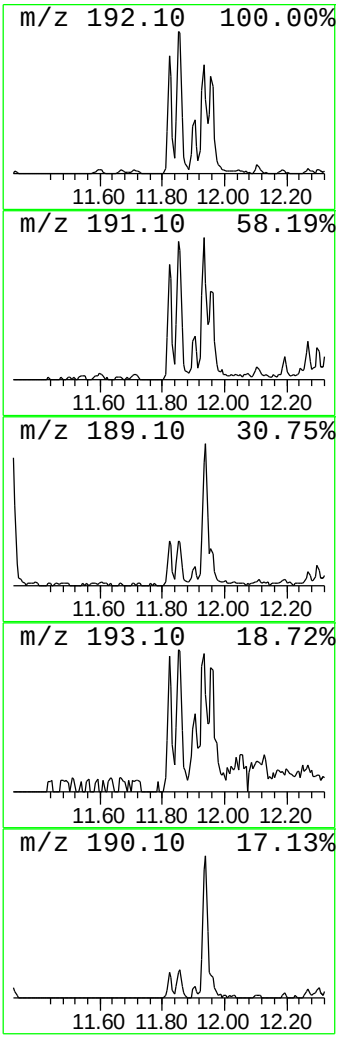
Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.82	5.06 ng	82853	Phenanthrene-d10	11.32

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





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100819\
Data File : BF117352.D
Acq On : 8 Oct 2019 20:30
Operator : JU
Sample : K5147-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-100719

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091319.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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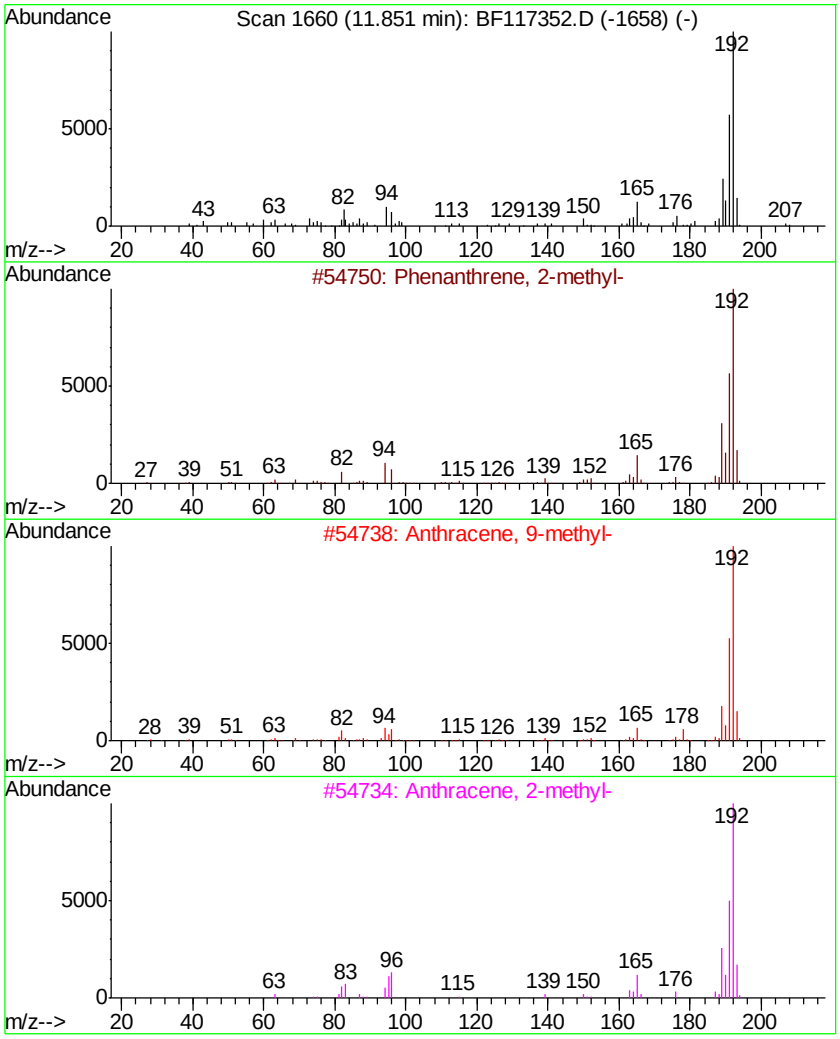
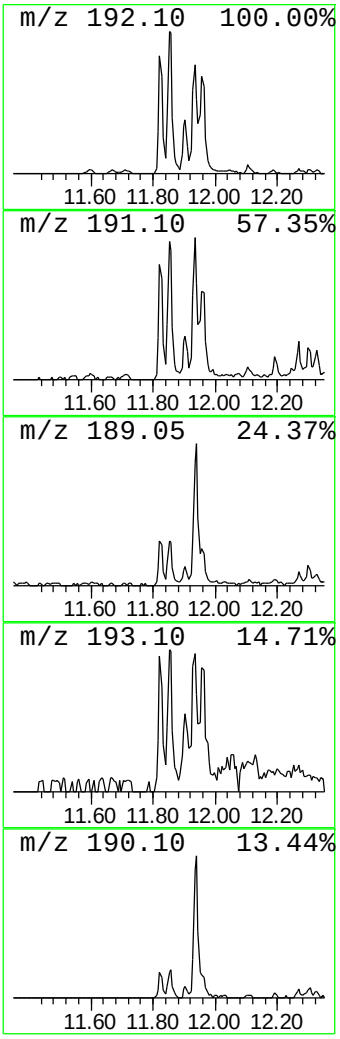
Peak Number 5 Anthracene, 9-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.85	6.48 ng	106127	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	83
4	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	81
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	81





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100819\
Data File : BF117352.D
Acq On : 8 Oct 2019 20:30
Operator : JU
Sample : K5147-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-100719

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

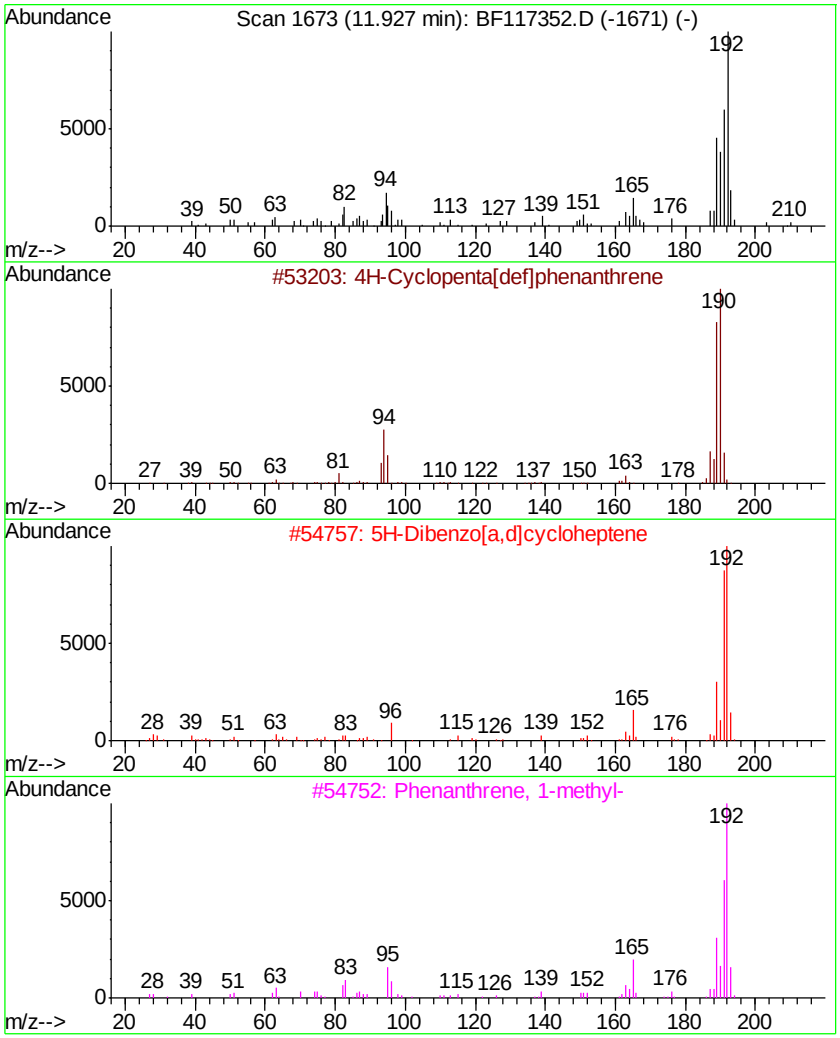
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

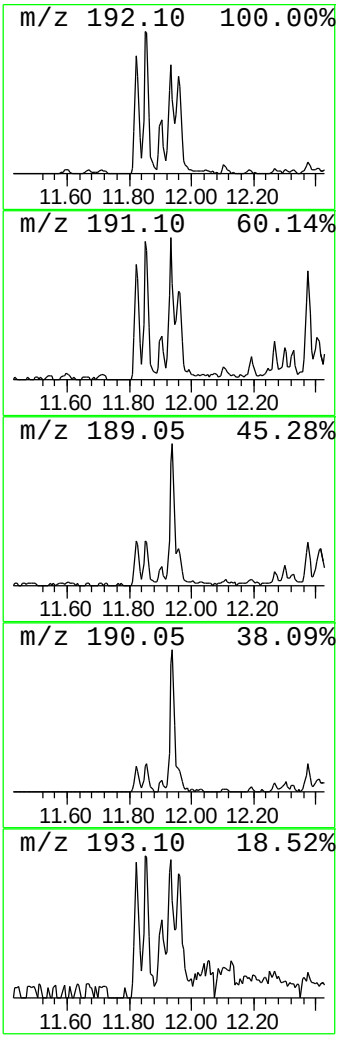
****

Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.93	9.18 ng	150269	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
2	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	50
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	50
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	45
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	43





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Acq On : 8 Oct 2019 20:30
Operator : JU
Sample : K5147-01 2X
Misc :
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Instrument : BNA_F
ClientSampleId : OK-03-100719

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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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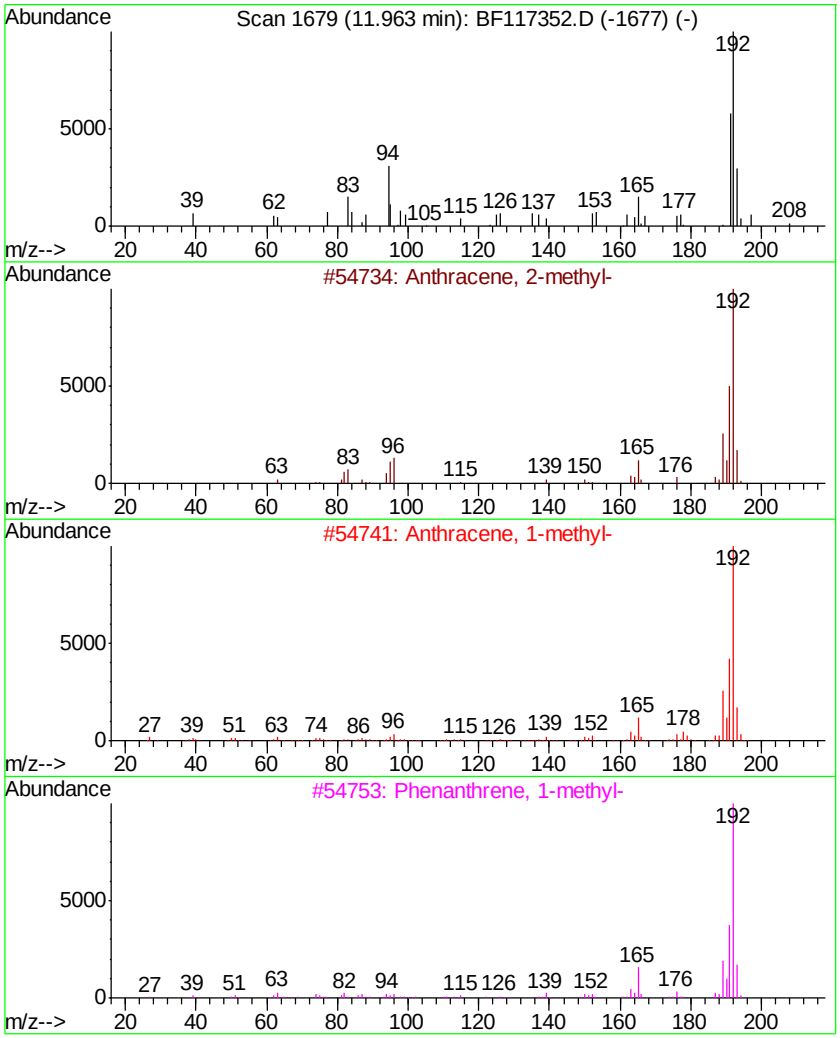
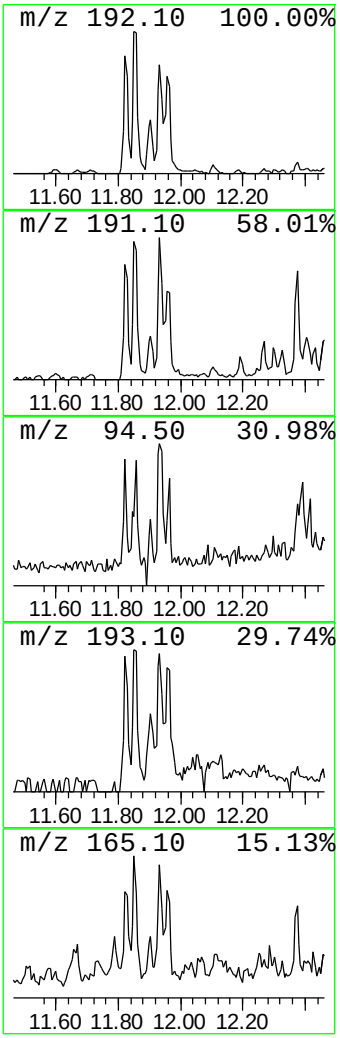
Peak Number 7 Anthracene, 2-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	3.04 ng	49827	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	83
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	74
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	74
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	72
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	64





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Instrument : BNA_F
ClientSampleId : OK-03-100719

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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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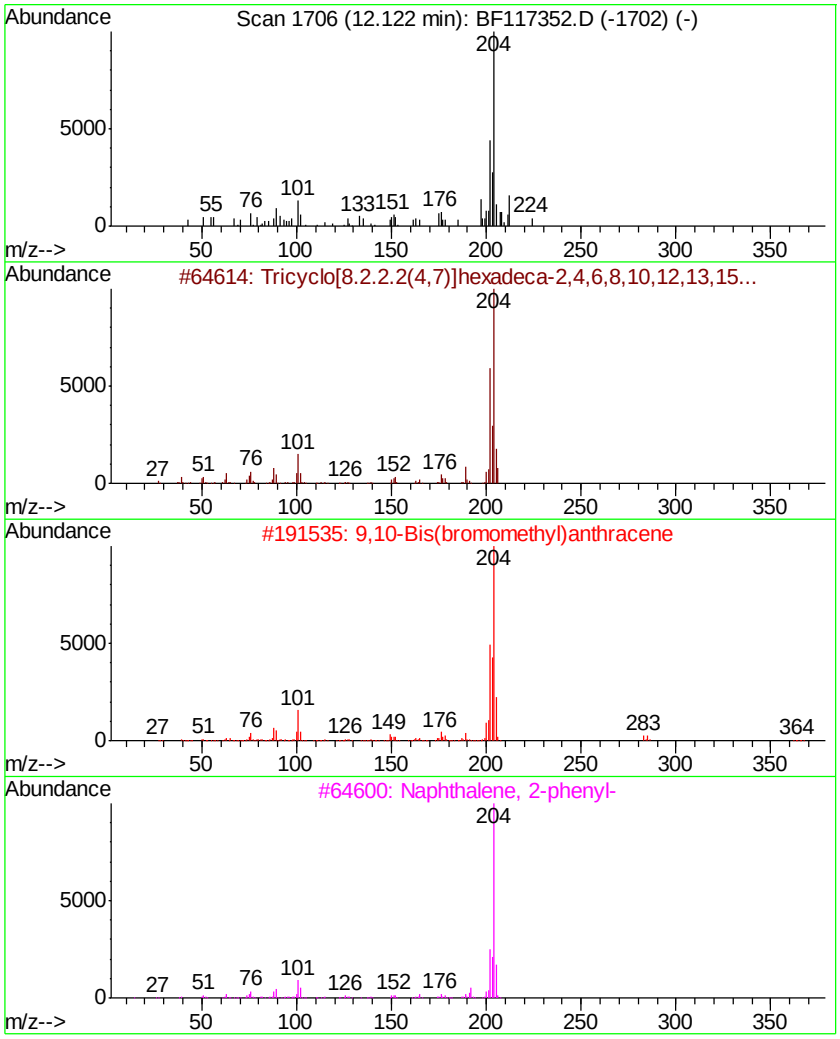
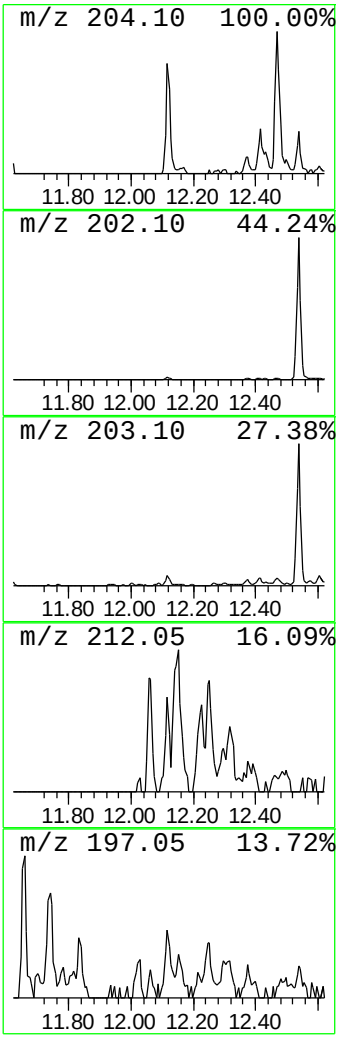
Peak Number 8 Tricyclo[8.2.2.2(4,7)]hexad... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	3.16 ng	51791	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	53
2	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	53
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	49
4	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	43
5	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	43





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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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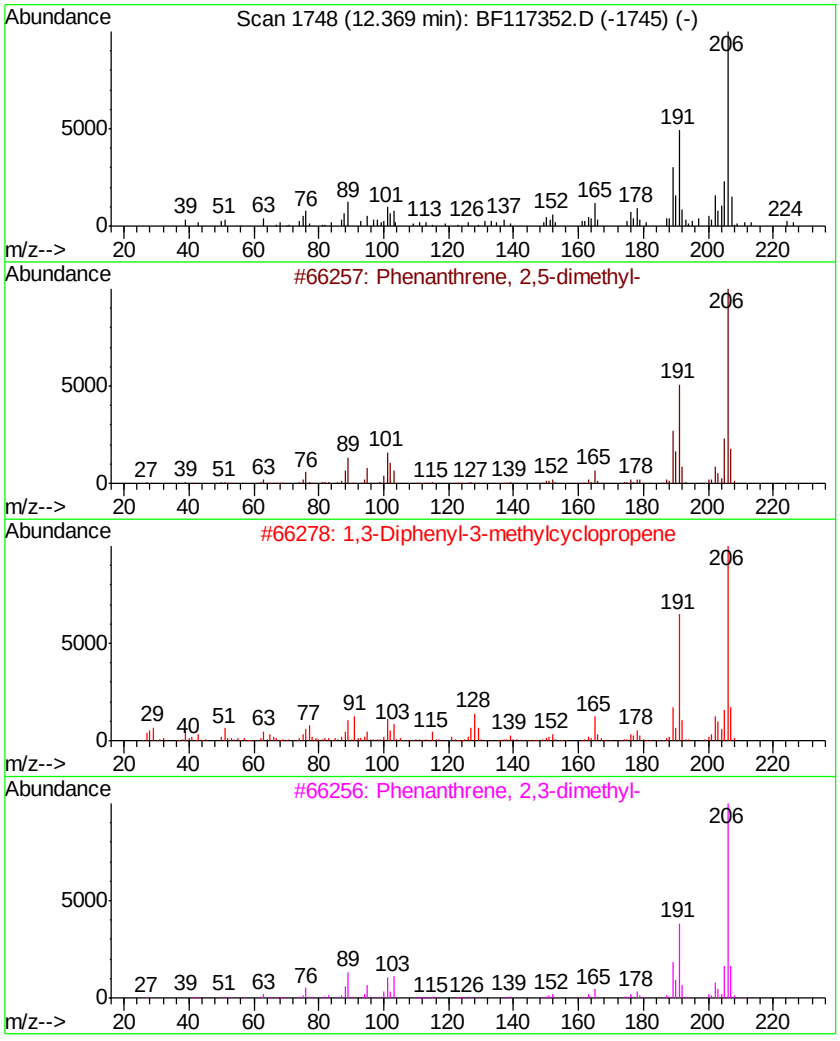
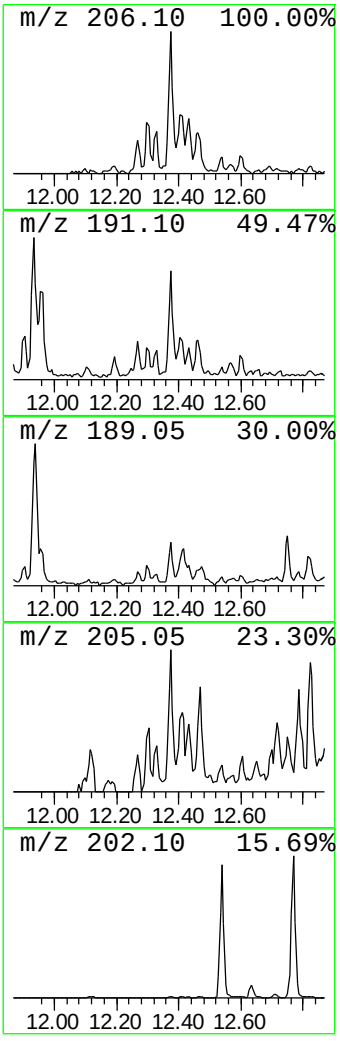
Peak Number 9 1,3-Diphenyl-3-methylcyclop... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.37	7.31 ng	119664	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	94
2	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	93
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90
4	1-Methyl-3-phenyl-1H-indene	206	C16H14	022360-62-9	90
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	87





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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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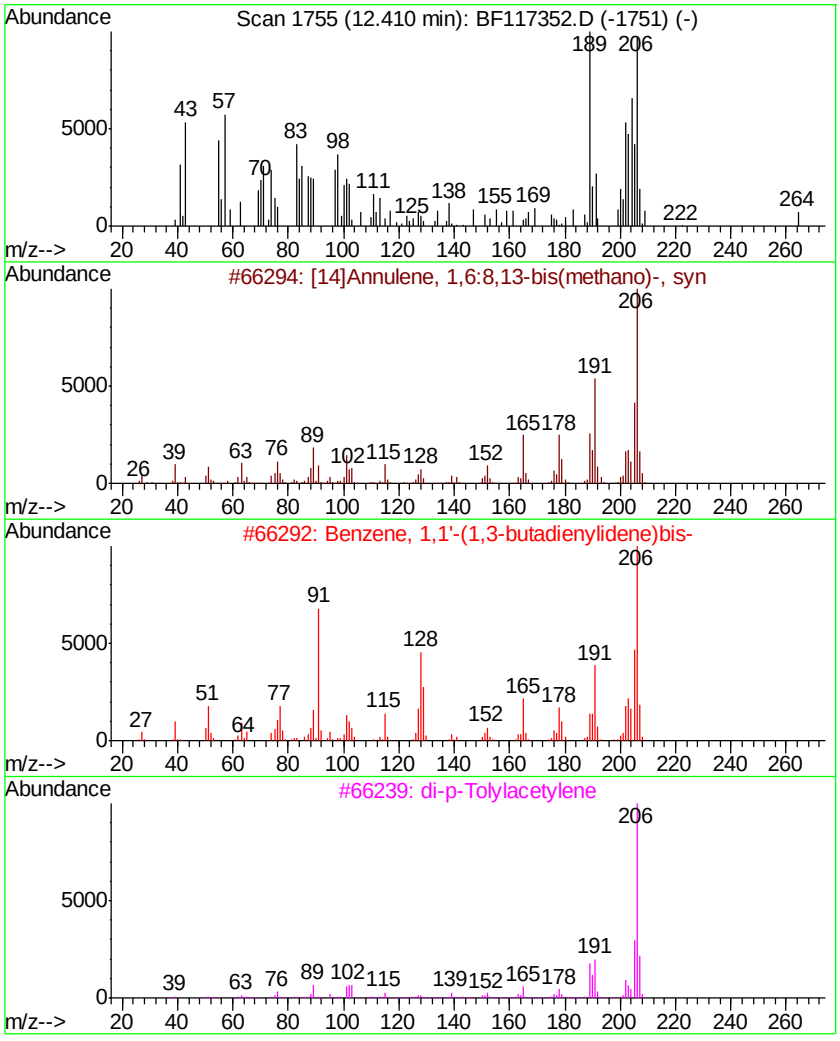
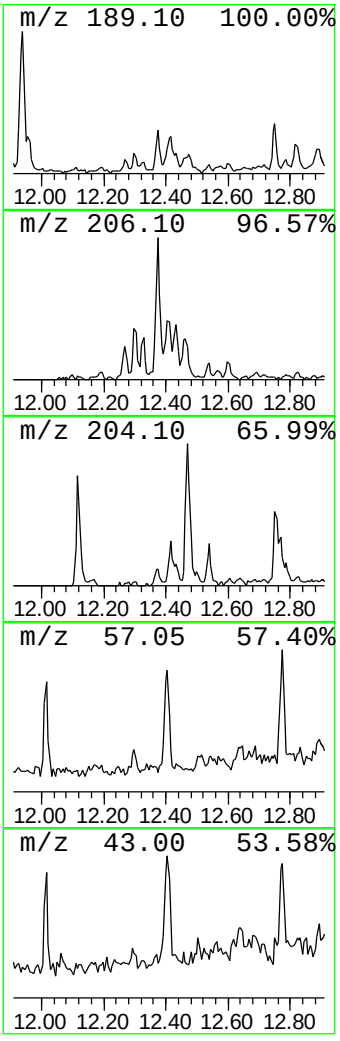
Peak Number 10 unknown12.41 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.41	8.45 ng	138329	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[14]Annulene, 1,6:8,13-bis(metha...	206	C16H14	085385-68-8	38
2	Benzene, 1,1'-(1,3-butadienylide...	206	C16H14	004165-81-5	38
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	35
4	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	30
5	1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	30





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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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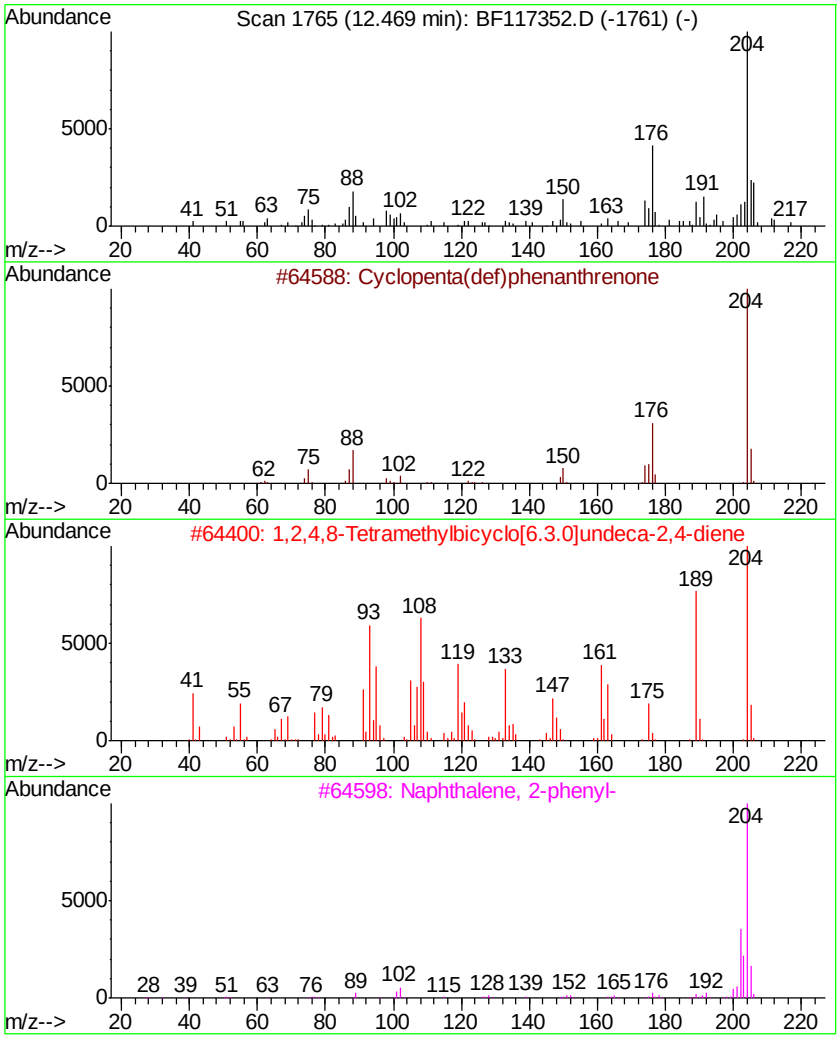
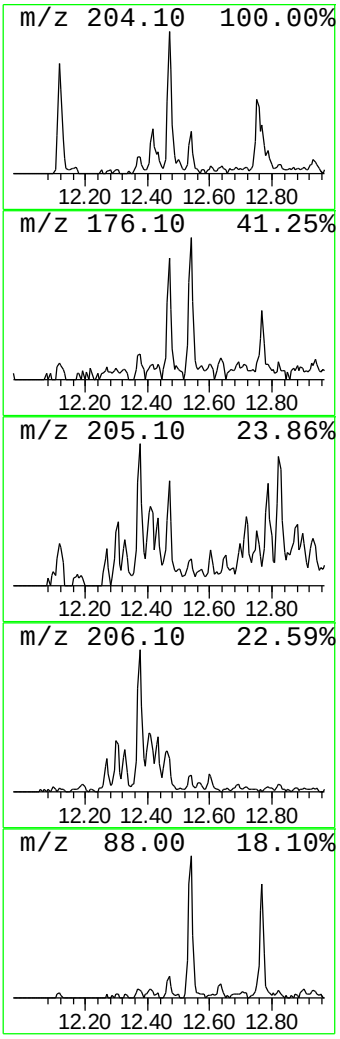
Peak Number 11 Cyclopenta(def)phenanthrenone Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.47	4.76 ng	77974	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	95
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	55
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	43
4	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	38
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	38





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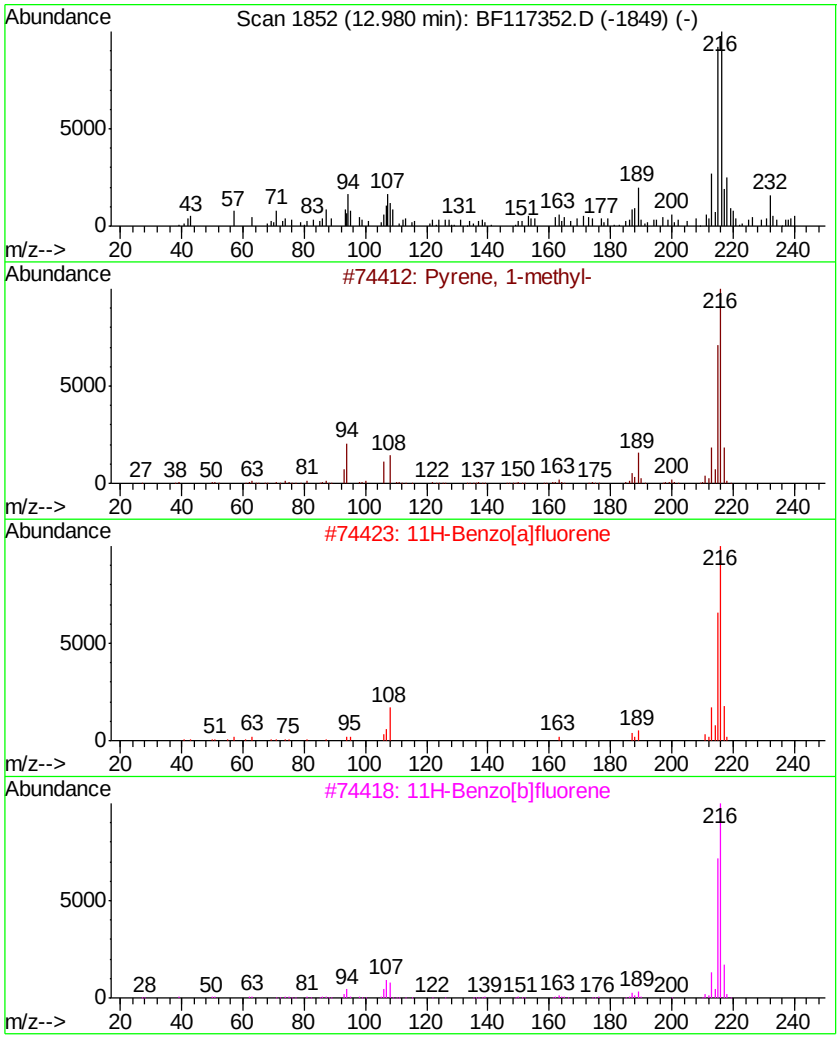
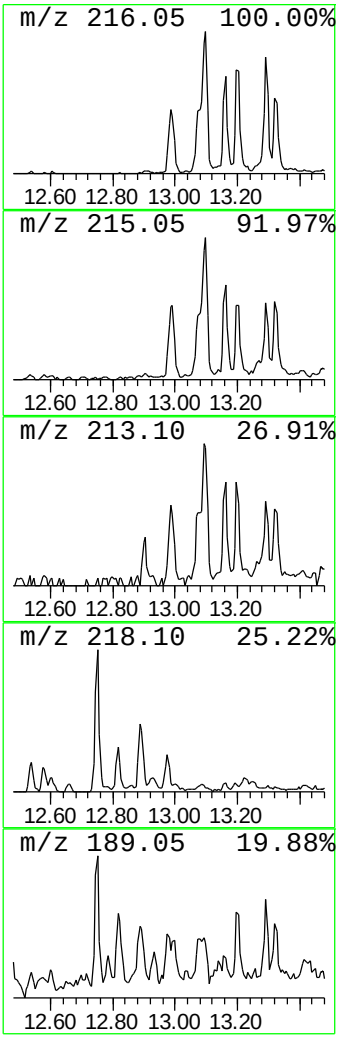
Peak Number 13 Pyrene, 1-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.98	3.93 ng	146869	Chrysene-d12	13.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	89
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	74
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	72
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	64
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	58





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Operator : JU
Sample : K5147-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-100719

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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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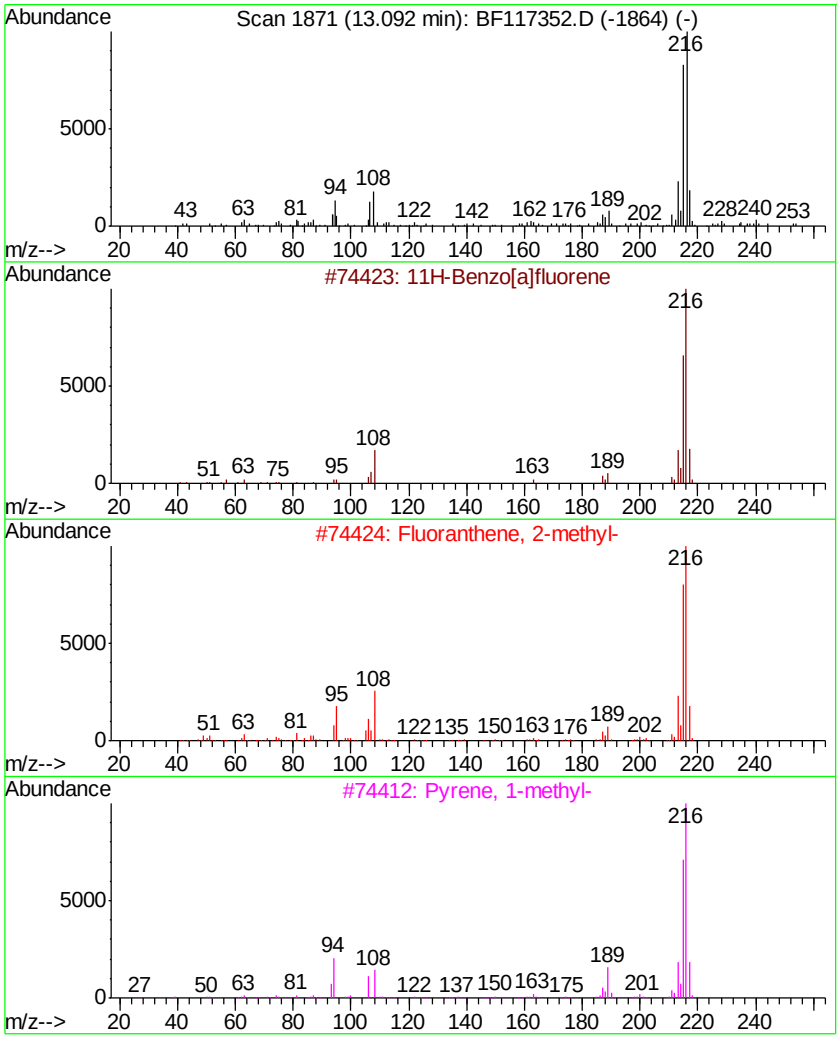
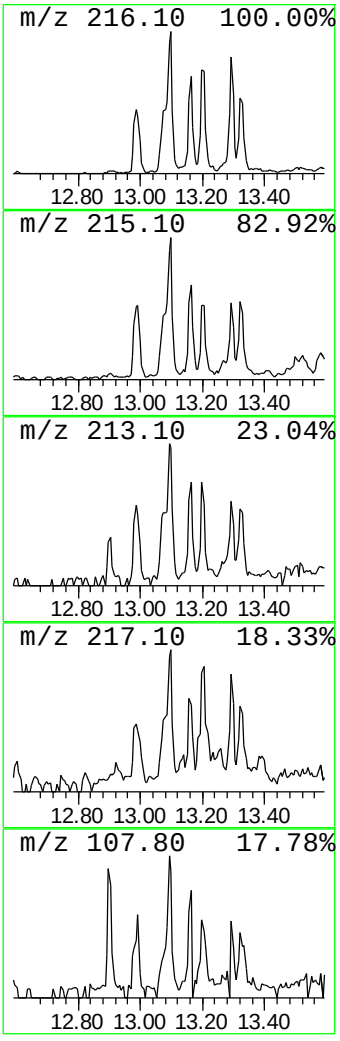
Peak Number 14 11H-Benzo[a]fluorene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.09	5.54 ng	206996	Chrysene-d12	13.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90





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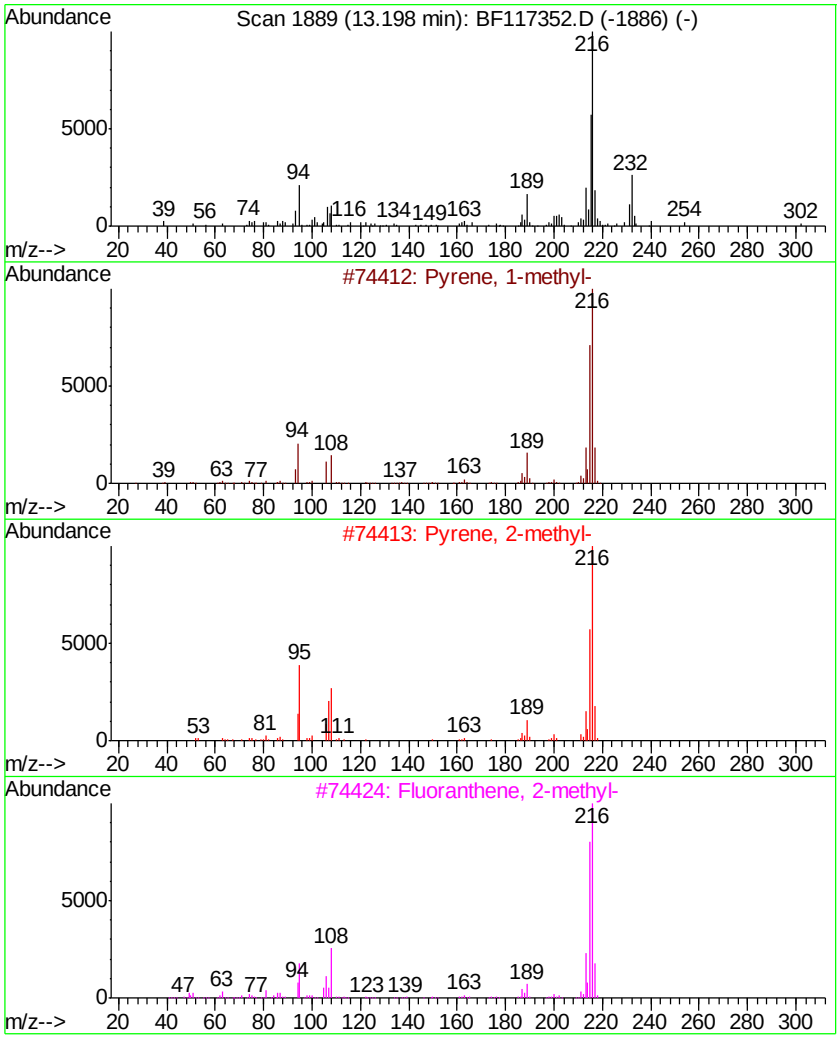
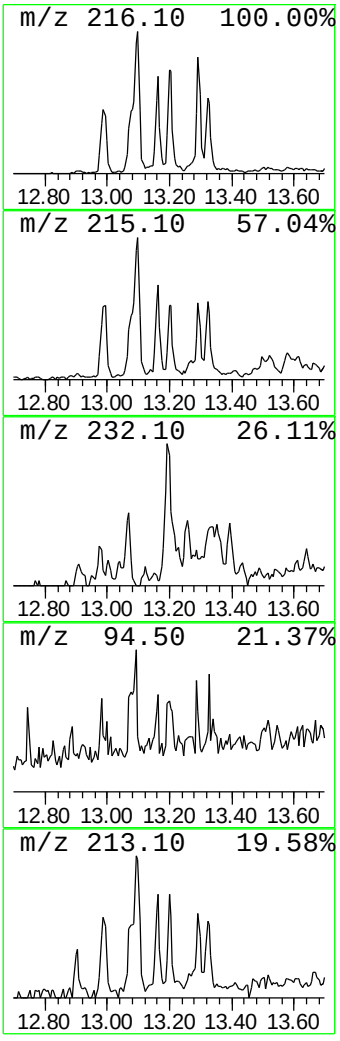
Peak Number 15 Pyrene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.20	3.75 ng	140115	Chrysene-d12	13.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	97
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	90
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	64
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	58
5	Pyrene, 4-methyl-	216	C17H12	003353-12-6	53





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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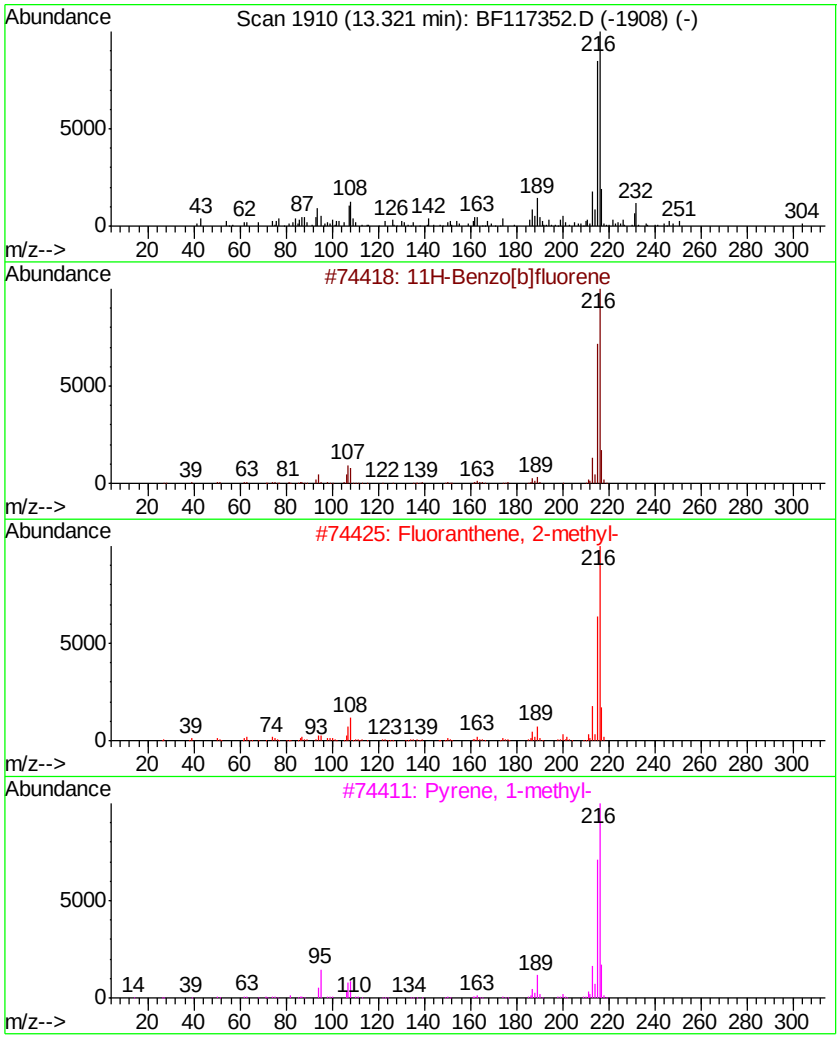
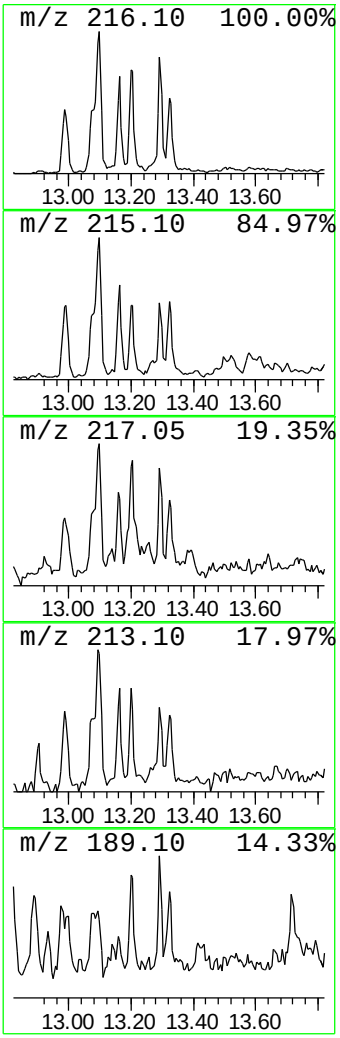
Peak Number 16 11H-Benzo[b]fluorene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.32	3.23 ng	120668	Chrysene-d12	13.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	89
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	80





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ClientSampleId : OK-03-100719

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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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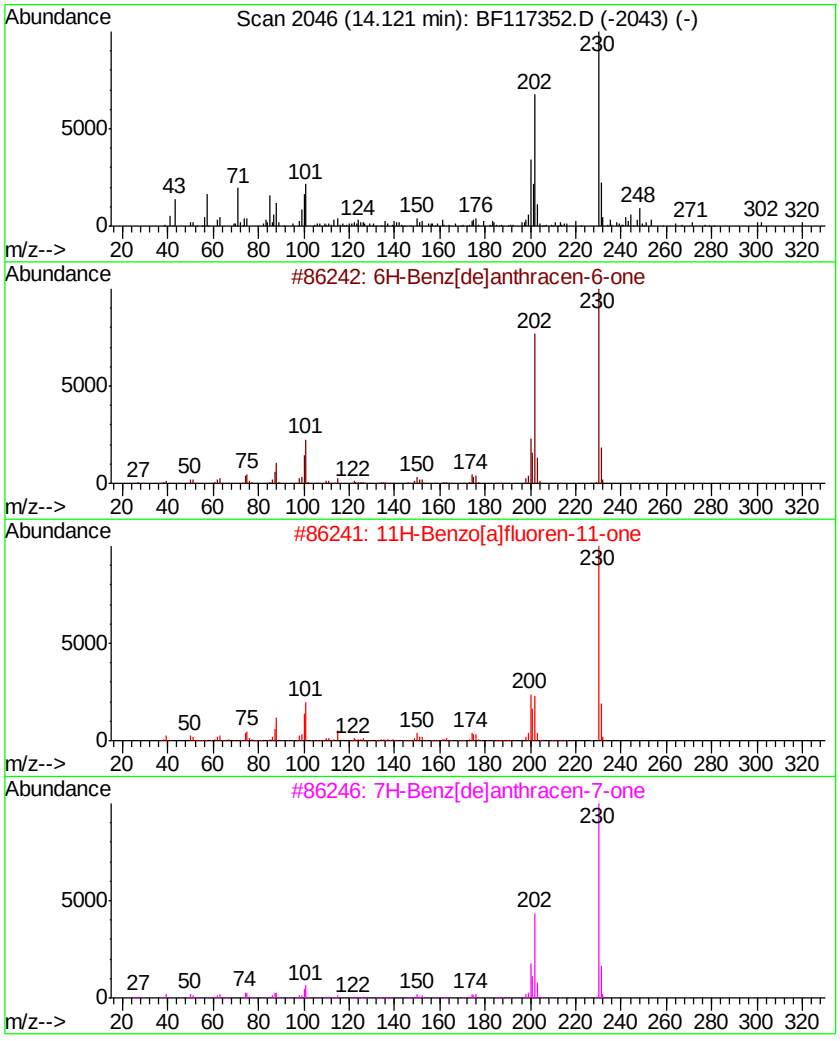
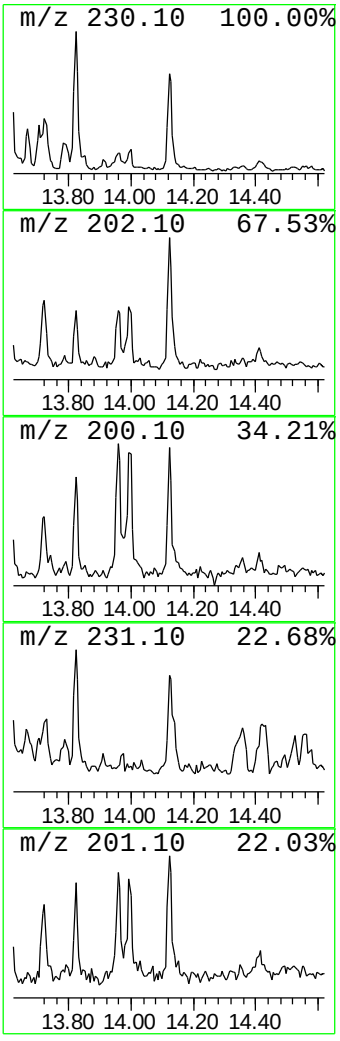
Peak Number 17 6H-Benz[de]anthracen-6-one Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.12	3.11 ng	116168	Chrysene-d12	13.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	93
2	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	93
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
4	4-Pyrenecarbaldehyde	230	C17H10O	022245-51-8	64
5	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	64





Library Search Compound Report

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

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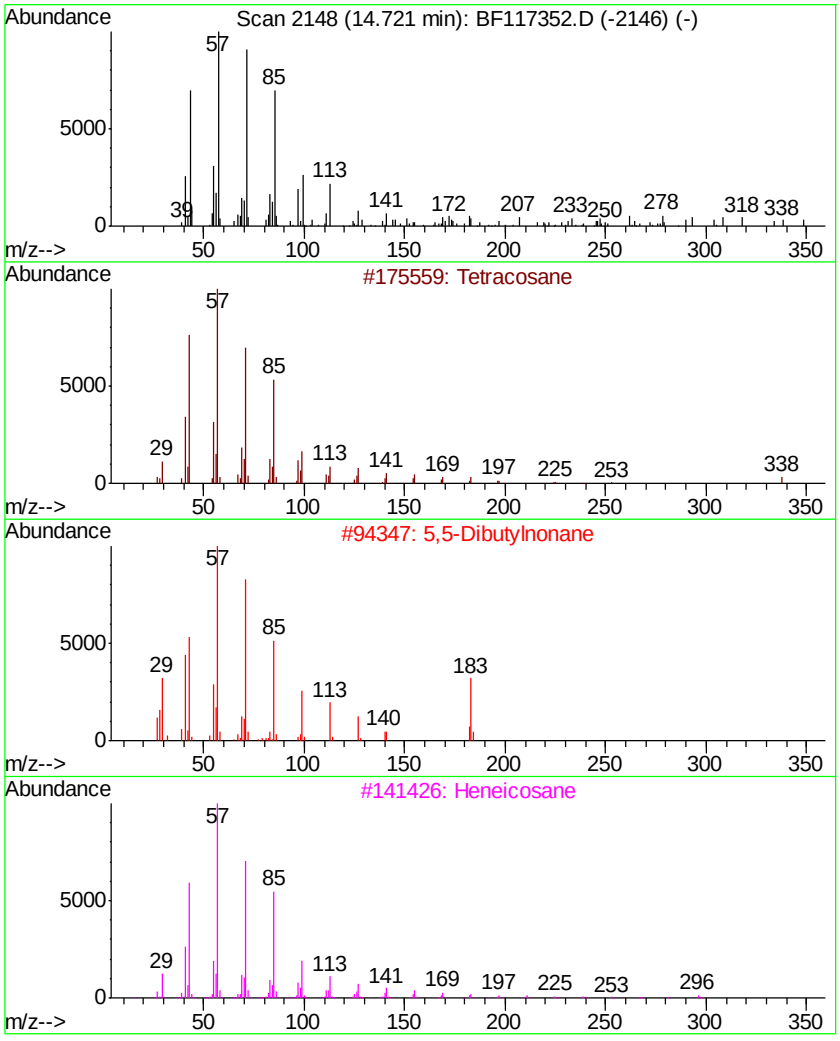
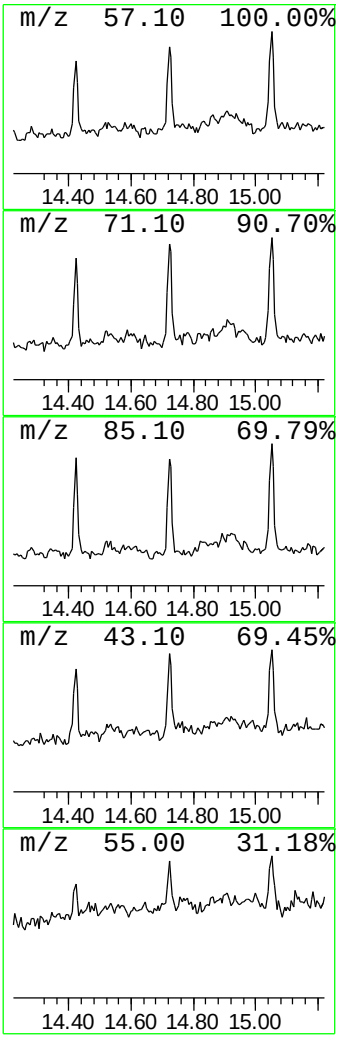
Peak Number 18 Tetracosane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.72	3.79 ng	46386	Perylene-d12	15.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosane	338	C24H50	000646-31-1	86
2	5,5-Dibutylnonane	240	C17H36	006008-17-9	72
3	Heneicosane	296	C21H44	000629-94-7	64
4	Heptadecane	240	C17H36	000629-78-7	64
5	Decane, 3,6-dimethyl-	170	C12H26	017312-53-7	59





Tentatively Identified Compound (LSC) summary

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Data File : BF117352.D
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Operator : JU
Sample : K5147-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-100719

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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
unknown6.57	6.57	34.0	ng	438236	1	6.80	257454	20.0
Chamazulene	10.75	2.8	ng	46084	4	11.32	327546	20.0
Phenanthrene, 2-m...	11.82	5.1	ng	82853	4	11.32	327546	20.0
Anthracene, 9-met...	11.85	6.5	ng	106127	4	11.32	327546	20.0
4H-Cyclopenta[def...	11.93	9.2	ng	150269	4	11.32	327546	20.0
Anthracene, 2-met...	11.96	3.0	ng	49827	4	11.32	327546	20.0
Tricyclo[8.2.2.2(...	12.12	3.2	ng	51791	4	11.32	327546	20.0
1,3-Diphenyl-3-me...	12.37	7.3	ng	119664	4	11.32	327546	20.0
unknown12.41	12.41	8.4	ng	138329	4	11.32	327546	20.0
Cyclopenta(def)ph...	12.47	4.8	ng	77974	4	11.32	327546	20.0
Pyrene, 1-methyl-	12.98	3.9	ng	146869	5	13.97	747756	20.0
11H-Benzo[a]fluorene	13.09	5.5	ng	206996	5	13.97	747756	20.0
Pyrene, 2-methyl-	13.20	3.8	ng	140115	5	13.97	747756	20.0
11H-Benzo[b]fluorene	13.32	3.2	ng	120668	5	13.97	747756	20.0
6H-Benz[de]anthra...	14.12	3.1	ng	116168	5	13.97	747756	20.0
Tetracosane	14.72	3.8	ng	46386	6	15.43	244656	20.0