LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121019\
Data File : BF118164.D
Acq On : 10 Dec 2019 13:46
Operator : JU
Sample : K6111-01 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-120619

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-BF120619.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	5.063	502	506	517	rVB	181125	196093	5.40%	0.410%
2	5.475	573	576	586	rBV	918284	958943	26.43%	2.007%
3	6.492	746	749	767	rBV	1051129	1071927	29.54%	2.244%
4	6.634	770	773	777	rBV	1207068	1111203	30.62%	2.326%
5	6.869	809	813	819	rBV	702807	544961	15.02%	1.141%
6	7.022	836	839	843	rBV	1025035	882188	24.31%	1.846%
7	7.428	905	908	918	rBV	735553	629265	17.34%	1.317%
8	8.157	1028	1032	1034	rBV	836142	724462	19.97%	1.516%
9	8.175	1034	1035	1040	rVB	256866	179873	4.96%	0.376%
10	8.869	1150	1153	1158	rBV	186791	155142	4.28%	0.325%
11	8.969	1166	1170	1179	rVB	172504	144506	3.98%	0.302%
12	9.233	1211	1215	1226	rBV	1541025	1336394	36.83%	2.797%
13	9.333	1230	1232	1238	rVB2	58855	75105	2.07%	0.157%
14	9.498	1256	1260	1264	rBV	85682	119156	3.28%	0.249%
15	9.575	1269	1273	1275	rBV	128527	130107	3.59%	0.272%
16	9.627	1279	1282	1287	rVB2	106735	105625	2.91%	0.221%
17	9.692	1289	1293	1295	rBV	69478	68939	1.90%	0.144%
18	9.775	1304	1307	1312	rBV	145965	130576	3.60%	0.273%
19	9.916	1328	1331	1334	rVV	1041148	841909	23.20%	1.762%
20	9.951	1334	1337	1340	rVB	429993	365788	10.08%	0.766%
21	10.022	1345	1349	1353	rBV2	43017	57114	1.57%	0.120%
22	10.075	1353	1358	1362	rBV2	44182	60236	1.66%	0.126%
23	10.122	1362	1366	1370	rVV	377209	343824	9.48%	0.720%
24	10.233	1381	1385	1388	rVV2	63479	70451	1.94%	0.147%
25	10.327	1396	1401	1402	rVV2	46384	65728	1.81%	0.138%
26	10.469	1421	1425	1431	rBV	660142	612670	16.89%	1.282%
27	10.533	1431	1436	1437	rBV2	61308	75873	2.09%	0.159%
28	10.551	1437	1439	1442	rVB2	76940	60138	1.66%	0.126%
29	10.622	1449	1451	1455	rVB	119649	99666	2.75%	0.209%
30	10.710	1462	1466	1470	rBV	986833	950738	26.20%	1.990%
31	10.833	1481	1487	1490	rVB3	83064	102188	2.82%	0.214%
32	10.904	1493	1499	1502	rBV5	43070	67811	1.87%	0.142%
33	11.016	1513	1518	1521	rBV2	135841	153894	4.24%	0.322%
34	11.045	1521	1523	1525	rVV	76069	64832	1.79%	0.136%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121019\
Data File : BF118164.D
Acq On : 10 Dec 2019 13:46
Operator : JU
Sample : K6111-01 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-120619

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-BF120619.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.098	1529	1532	1535	rVB2	82131	74895	2.06%	0.157%
36	11.145	1535	1540	1542	rBV2	61375	92951	2.56%	0.195%
37	11.169	1542	1544	1549	rVV	61150	72905	2.01%	0.153%
38	11.263	1556	1560	1563	rBV3	60490	89762	2.47%	0.188%
39	11.304	1564	1567	1572	rVB	249115	232851	6.42%	0.487%
40	11.410	1581	1585	1587	rBV	895004	845649	23.31%	1.770%
41	11.439	1587	1590	1593	rVV	3508118	2852850	78.62%	5.971%
42	11.486	1595	1598	1601	rVV	1160355	917311	25.28%	1.920%
43	11.521	1601	1604	1607	rVV	119204	140604	3.88%	0.294%
44	11.569	1609	1612	1618	rVV2	40415	63883	1.76%	0.134%
45	11.639	1620	1624	1631	rVV	287015	329051	9.07%	0.689%
46	11.704	1631	1635	1637	rVV2	89286	101995	2.81%	0.213%
47	11.739	1639	1641	1646	rVB2	96280	109179	3.01%	0.229%
48	11.827	1653	1656	1659	rVB	64905	69797	1.92%	0.146%
49	11.916	1667	1671	1672	rBV	392361	362484	9.99%	0.759%
50	11.939	1672	1675	1680	rVB2	626655	721760	19.89%	1.511%
51	11.992	1680	1684	1686	rBV	224636	194405	5.36%	0.407%
52	12.027	1686	1690	1692	rBV	820994	779976	21.50%	1.633%
53	12.051	1692	1694	1698	rVB	268243	218054	6.01%	0.456%
54	12.210	1718	1721	1723	rVV	291739	247854	6.83%	0.519%
55	12.239	1723	1726	1732	rVB2	92215	101660	2.80%	0.213%
56	12.357	1745	1746	1749	rVB	85241	60787	1.68%	0.127%
57	12.392	1749	1752	1754	rBV	119211	110592	3.05%	0.231%
58	12.416	1754	1756	1758	rVB2	95303	69886	1.93%	0.146%
59	12.463	1760	1764	1767	rBV	255690	307646	8.48%	0.644%
60	12.504	1767	1771	1773	rVV3	164872	217212	5.99%	0.455%
61	12.557	1777	1780	1784	rBV3	114434	155788	4.29%	0.326%
62	12.639	1789	1794	1797	rBV	3511895	3415955	94.14%	7.150%
63	12.721	1805	1808	1812	rVB3	171128	156662	4.32%	0.328%
64	12.786	1815	1819	1821	rBV2	117869	123999	3.42%	0.260%
65	12.868	1826	1833	1838	rBV	3005178	3628472	100.00%	7.595%
66	12.910	1838	1840	1845	rVB2	165619	193535	5.33%	0.405%
67	12.998	1852	1855	1858	rVB	1373751	1077782	29.70%	2.256%
68	13.021	1858	1859	1862	rVB	199663	122991	3.39%	0.257%
69	13.080	1864	1869	1872	rBV2	217231	365775	10.08%	0.766%
70	13.110	1872	1874	1876	rVB	81610	58363	1.61%	0.122%
71	13.163	1880	1883	1885	rBV3	187730	227661	6.27%	0.477%

LSC Area Percent Report

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Data File : BF118164.D
Acq On : 10 Dec 2019 13:46
Operator : JU
Sample : K6111-01 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-120619

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-BF120619.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.192	1885	1888	1891	rVB	702373	630727	17.38%	1.320%
73	13.221	1891	1893	1896	rBV4	54997	77044	2.12%	0.161%
74	13.257	1896	1899	1902	rBV	727920	564393	15.55%	1.181%
75	13.298	1902	1906	1908	rBV2	319016	351337	9.68%	0.735%
76	13.386	1918	1921	1924	rBV	199723	183050	5.04%	0.383%
77	13.421	1924	1927	1929	rBV	210539	192726	5.31%	0.403%
78	13.674	1967	1970	1973	rBV	112646	158071	4.36%	0.331%
79	13.810	1990	1993	1996	rBV	263076	296827	8.18%	0.621%
80	13.839	1996	1998	2000	rVV	276741	235477	6.49%	0.493%
81	13.863	2000	2002	2006	rVV2	225827	351060	9.68%	0.735%
82	13.898	2006	2008	2014	rVB3	220397	290830	8.02%	0.609%
83	14.062	2029	2036	2039	rBV2	2002326	3004436	82.80%	6.288%
84	14.092	2039	2041	2048	rVB	1516157	1476629	40.70%	3.091%
85	14.174	2052	2055	2058	rVB	392013	308015	8.49%	0.645%
86	14.215	2059	2062	2065	rBV4	188492	217322	5.99%	0.455%
87	14.292	2071	2075	2078	rVB2	173942	213673	5.89%	0.447%
88	14.451	2100	2102	2105	rVB	317091	281460	7.76%	0.589%
89	14.486	2106	2108	2112	rVB	154728	127708	3.52%	0.267%
90	14.580	2122	2124	2126	rBV	157349	128305	3.54%	0.269%
91	14.604	2126	2128	2131	rVB	260667	202997	5.59%	0.425%
92	15.127	2212	2217	2220	rBV	1190060	1897342	52.29%	3.971%
93	15.180	2224	2226	2232	rVV3	234419	299637	8.26%	0.627%
94	15.233	2232	2235	2239	rVB	271789	276345	7.62%	0.578%
95	15.439	2266	2270	2276	rVB	711256	912087	25.14%	1.909%
96	15.504	2277	2281	2286	rVB	1129322	1343058	37.01%	2.811%
97	15.568	2288	2292	2295	rBV	589081	819884	22.60%	1.716%
98	16.021	2366	2369	2373	rVB2	184441	234464	6.46%	0.491%
99	17.080	2544	2549	2557	rVB2	375005	744055	20.51%	1.557%
100	17.539	2623	2627	2636	rVB	256839	487805	13.44%	1.021%

Sum of corrected areas: 47777071

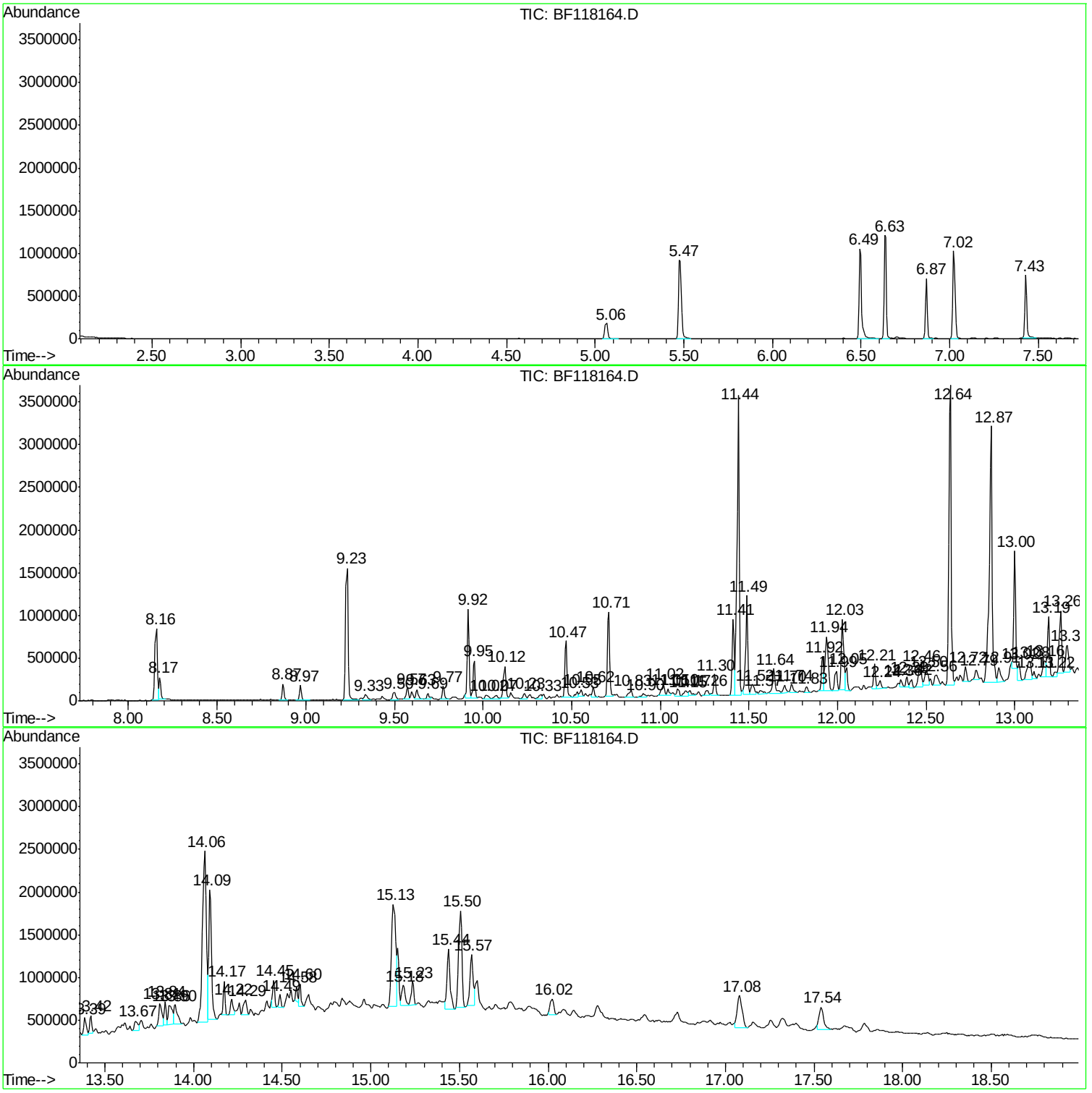
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121019\
Data File : BF118164.D
Acq On : 10 Dec 2019 13:46
Operator : JU
Sample : K6111-01 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-120619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120619.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\BF121019\
Data File : BF118164.D
Acq On : 10 Dec 2019 13:46
Operator : JU
Sample : K6111-01 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-120619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

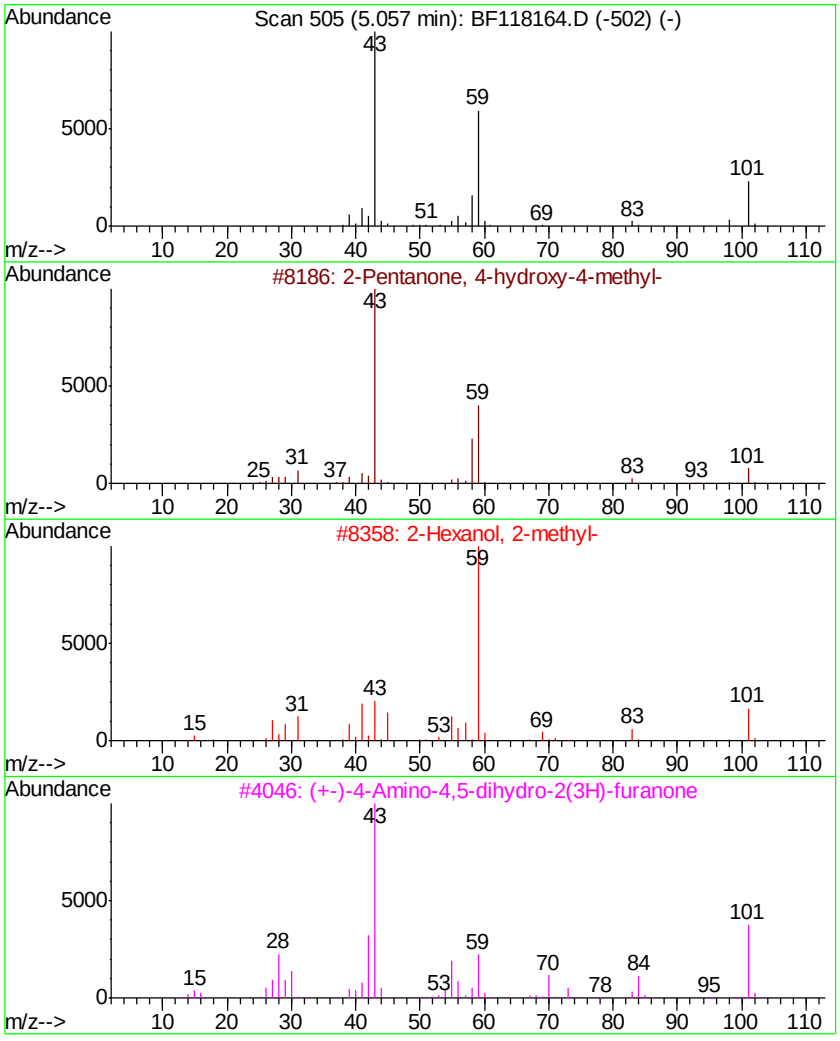
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

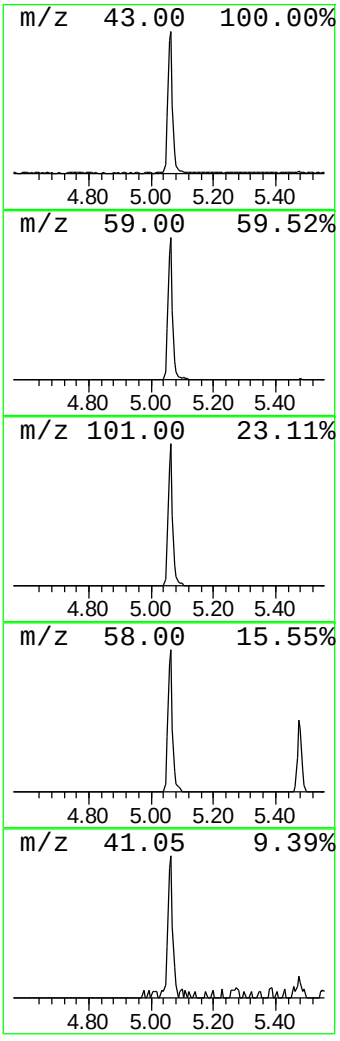
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.06	7.20 ng	196093	1,4-Dichlorobenzene-d4	6.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	37
3	(+-)-4-Amino-4,5-dihydro-2(3H)-f...	101	C4H7NO2	016504-58-8	25
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	17
5	Acetone	58	C3H6O	000067-64-1	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121019\
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Operator : JU
Sample : K6111-01 2X
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Instrument : BNA_F
ClientSampleId : CL-01-120619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

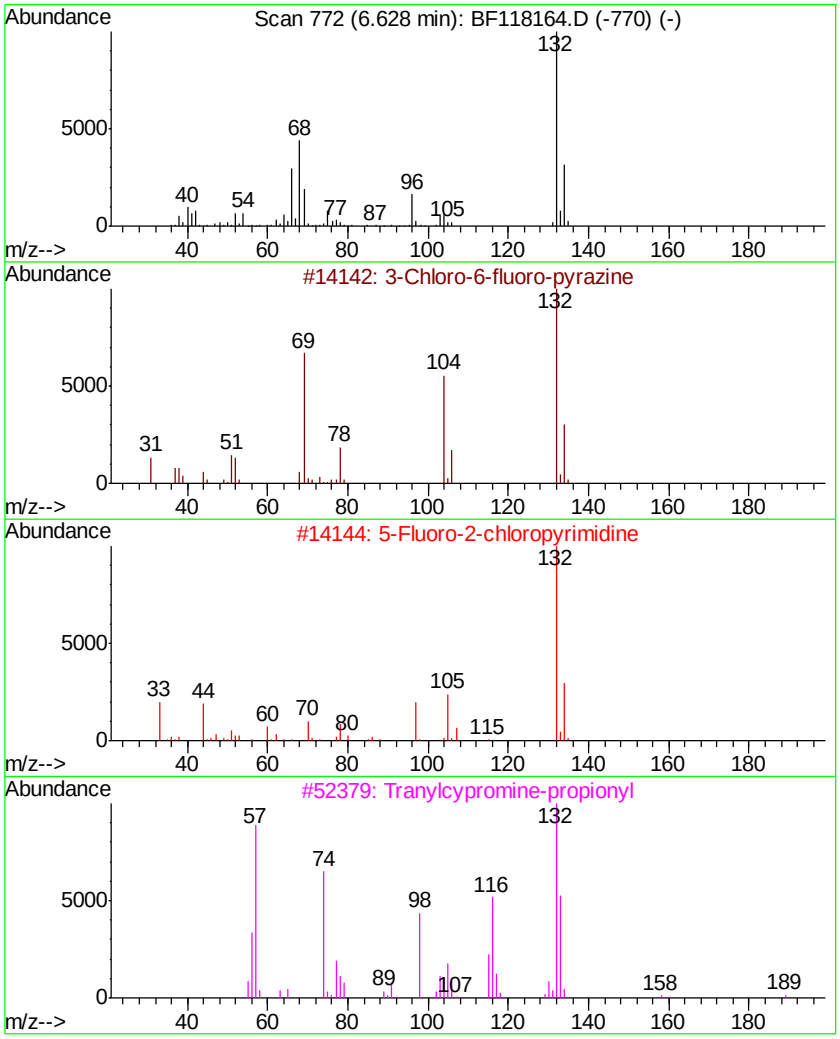
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

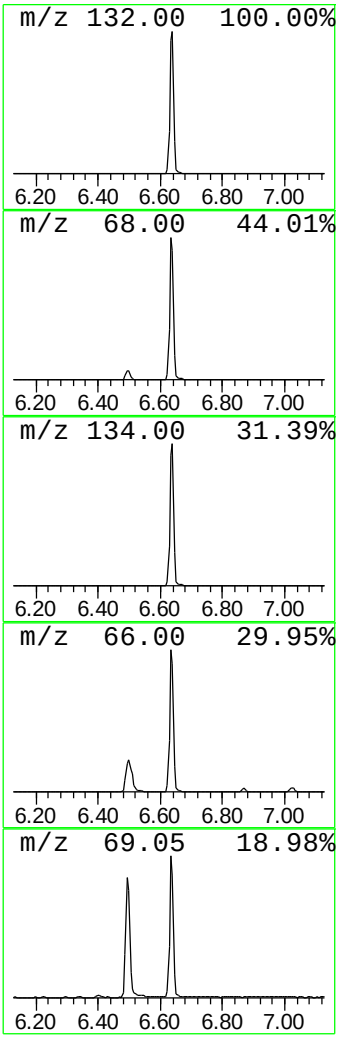
****

Peak Number 2 unknown6.63 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.63	40.78 ng	1111200	1,4-Dichlorobenzene-d4	6.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	12
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
4	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
5	Benzene, 1-ethenyl-3,5-dimethyl-	132	C10H12	005379-20-4	9





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Instrument : BNA_F
ClientSampleId : CL-01-120619

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

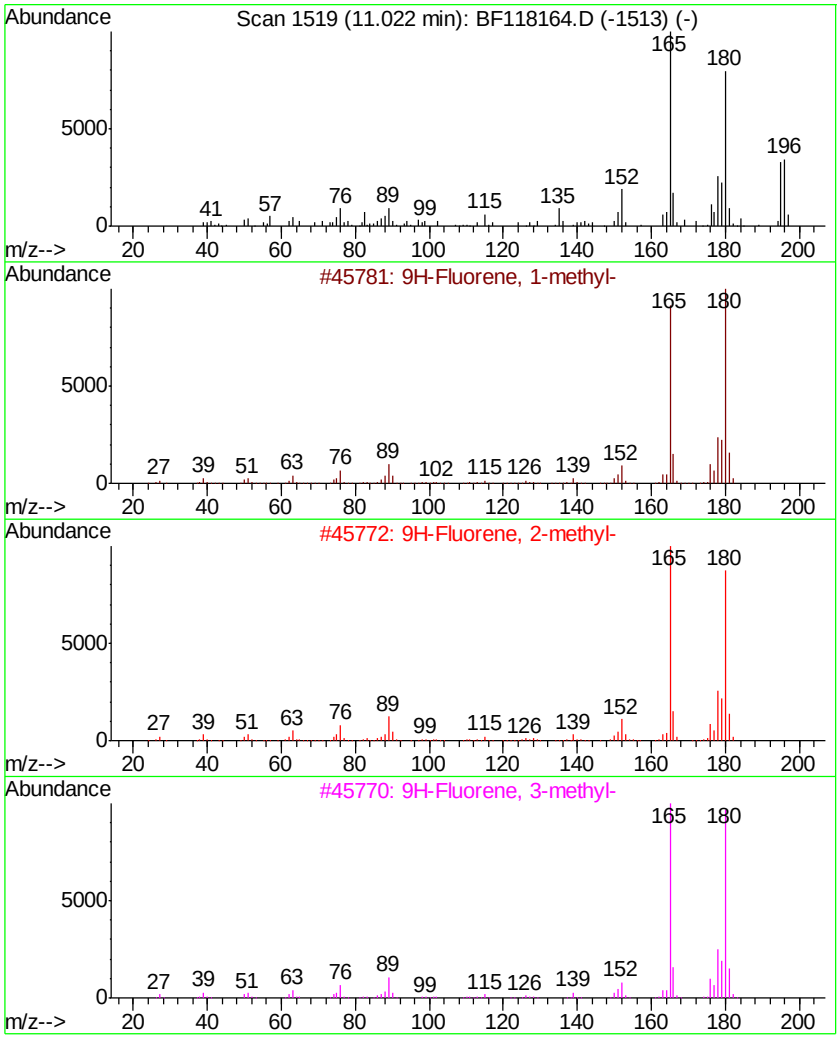
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

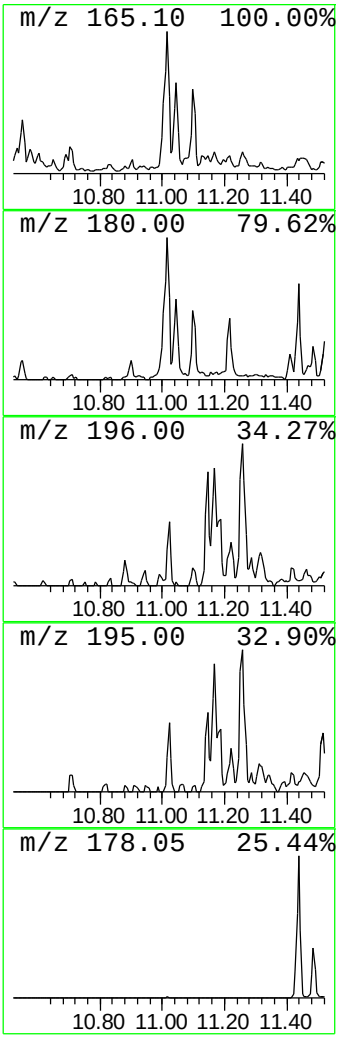
****

Peak Number 4 9H-Fluorene, 1-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.02	3.64 ng	153894	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	93
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	93
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	90
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	81
5	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	74





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Data File : BF118164.D
Acq On : 10 Dec 2019 13:46
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Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-120619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

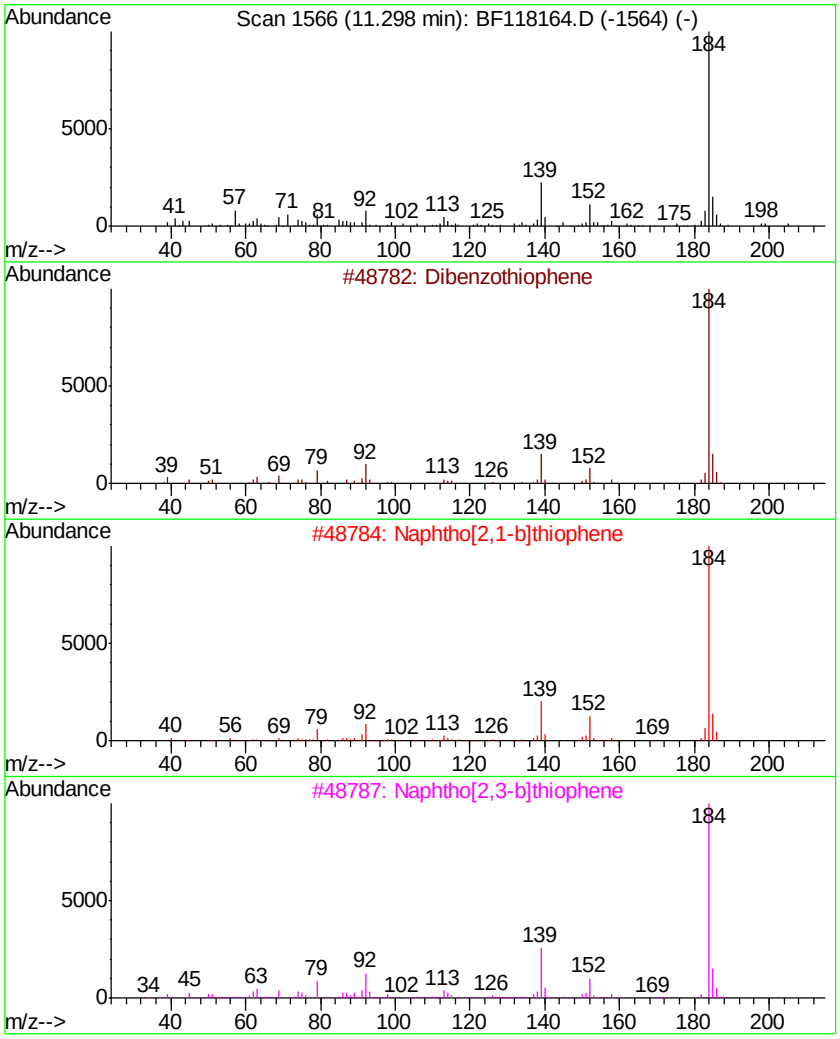
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

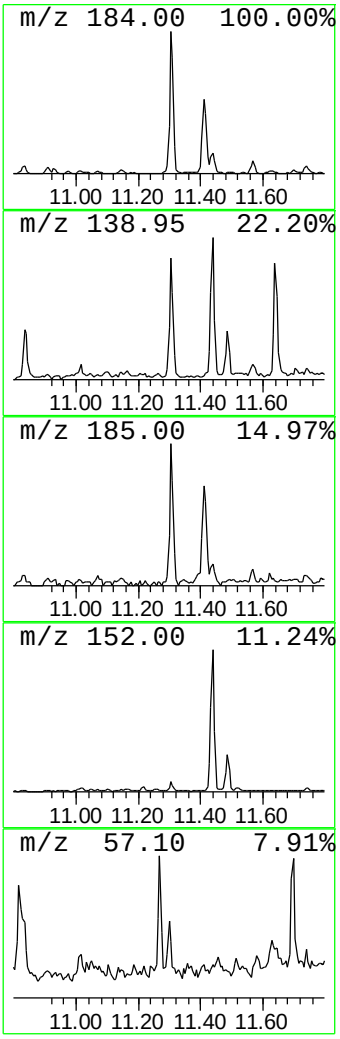
****

Peak Number 5 Dibenzothiophene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.30	5.51 ng	232851	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	96
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	80





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121019\
Data File : BF118164.D
Acq On : 10 Dec 2019 13:46
Operator : JU
Sample : K6111-01 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-120619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

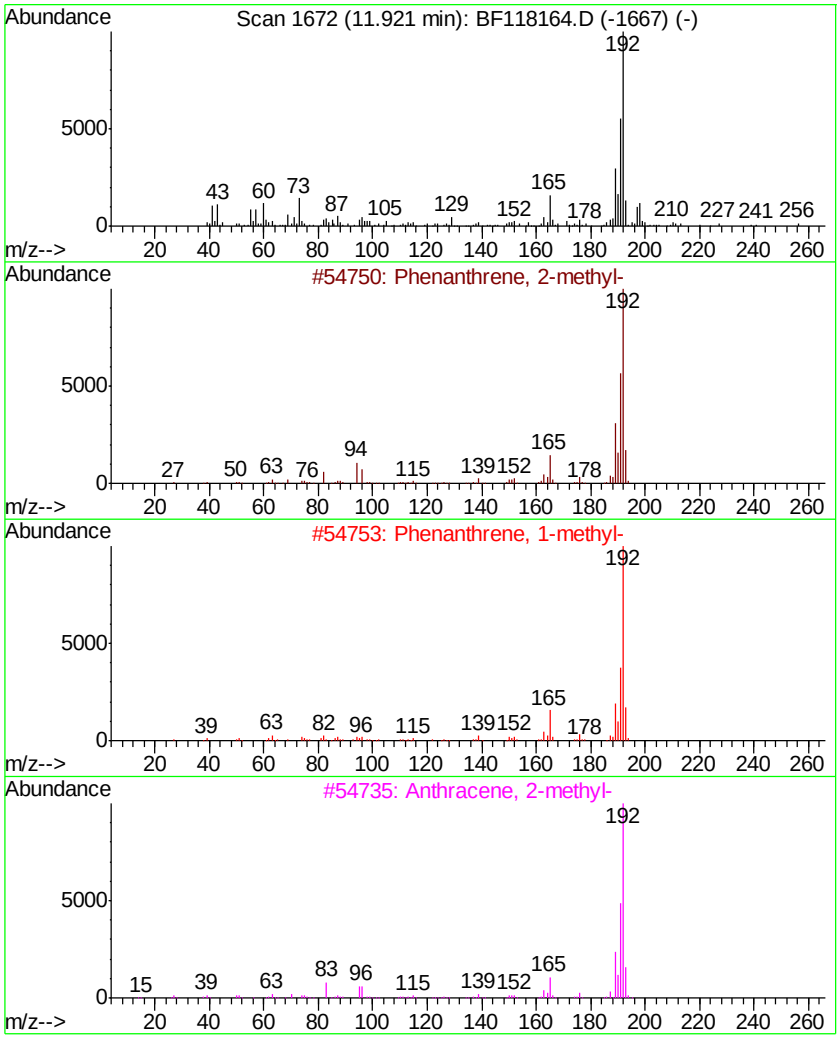
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

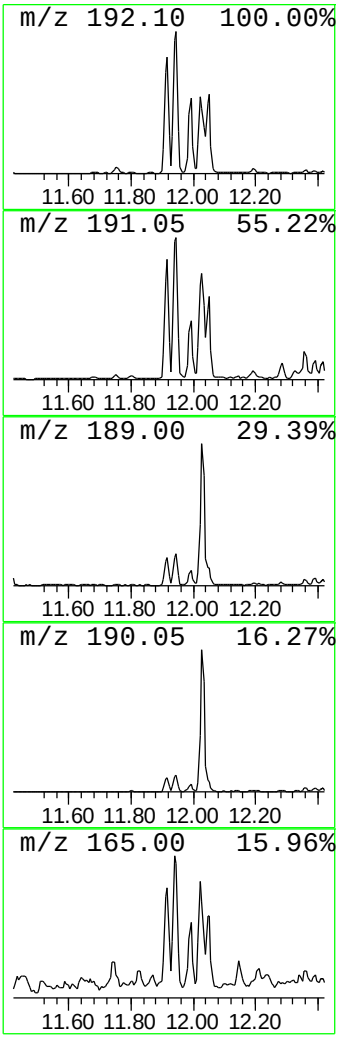
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	8.57 ng	362484	Phenanthrene-d10	11.41

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	95
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93





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Operator : JU
Sample : K6111-01 2X
Misc :
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Instrument : BNA_F
ClientSampleId : CL-01-120619

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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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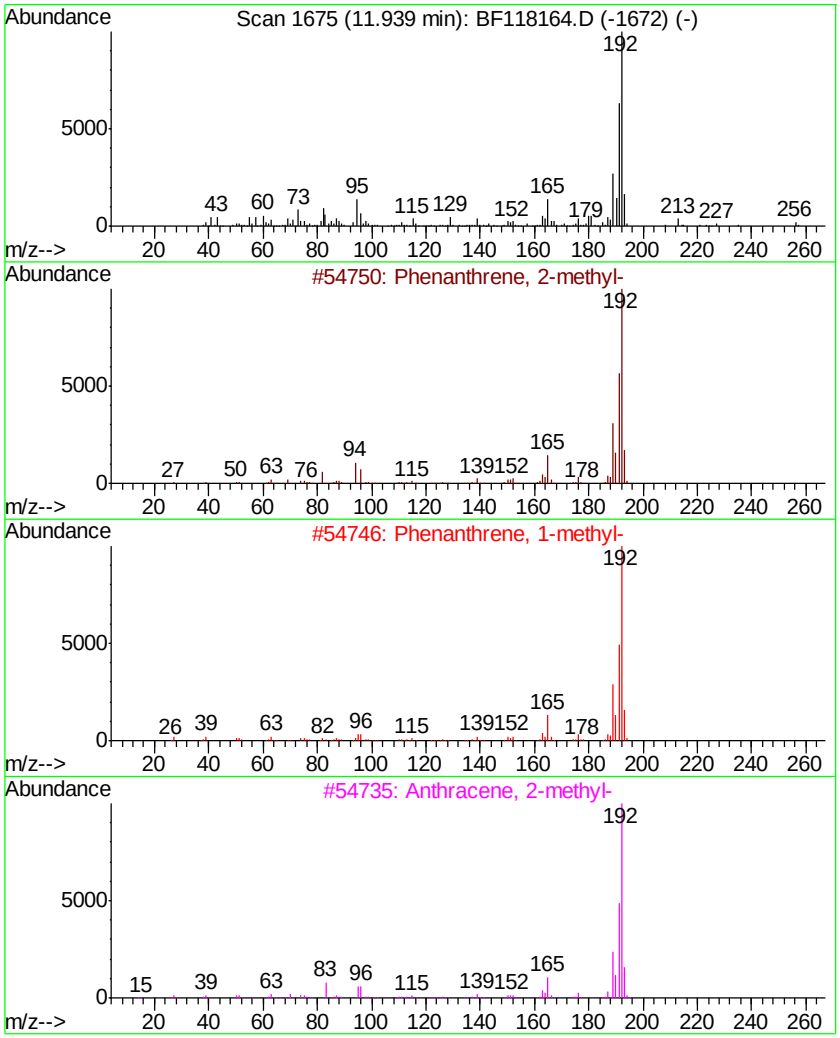
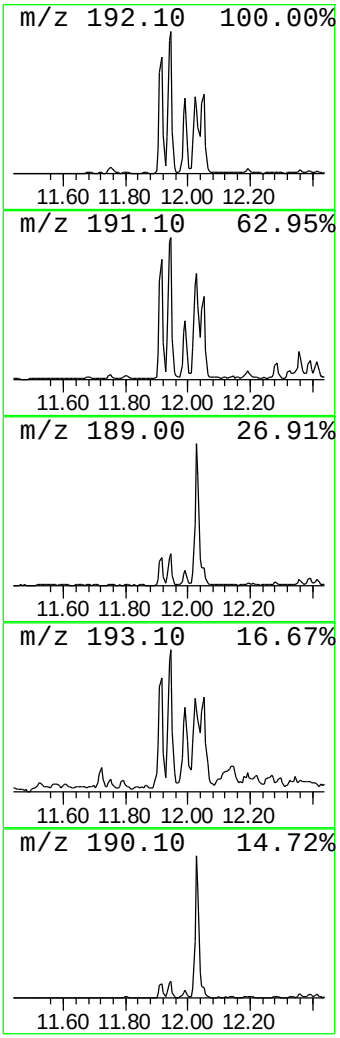
Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.94	17.07 ng	721760	Phenanthrene-d10	11.41

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	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93





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ClientSampleId : CL-01-120619

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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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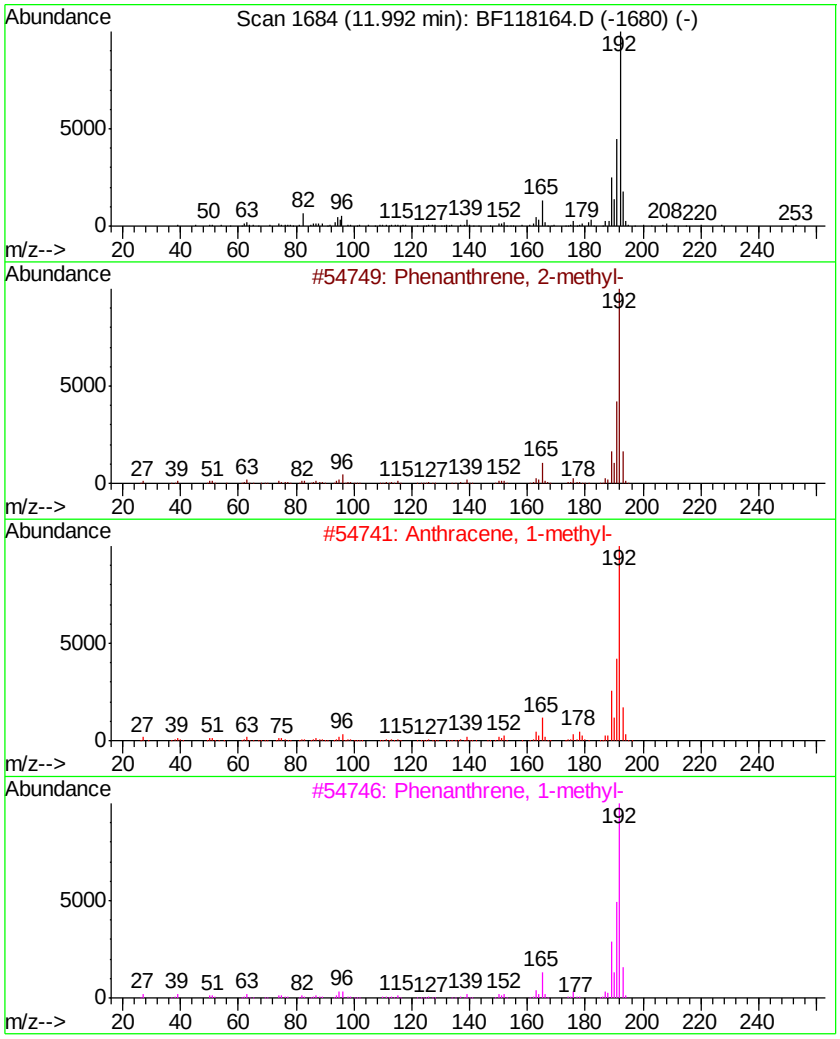
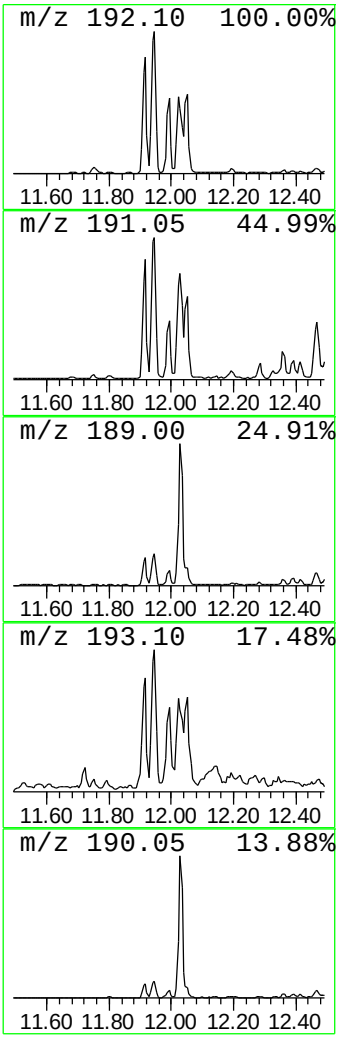
Peak Number 8 Anthracene, 1-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	4.60 ng	194405	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93





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ClientSampleId : CL-01-120619

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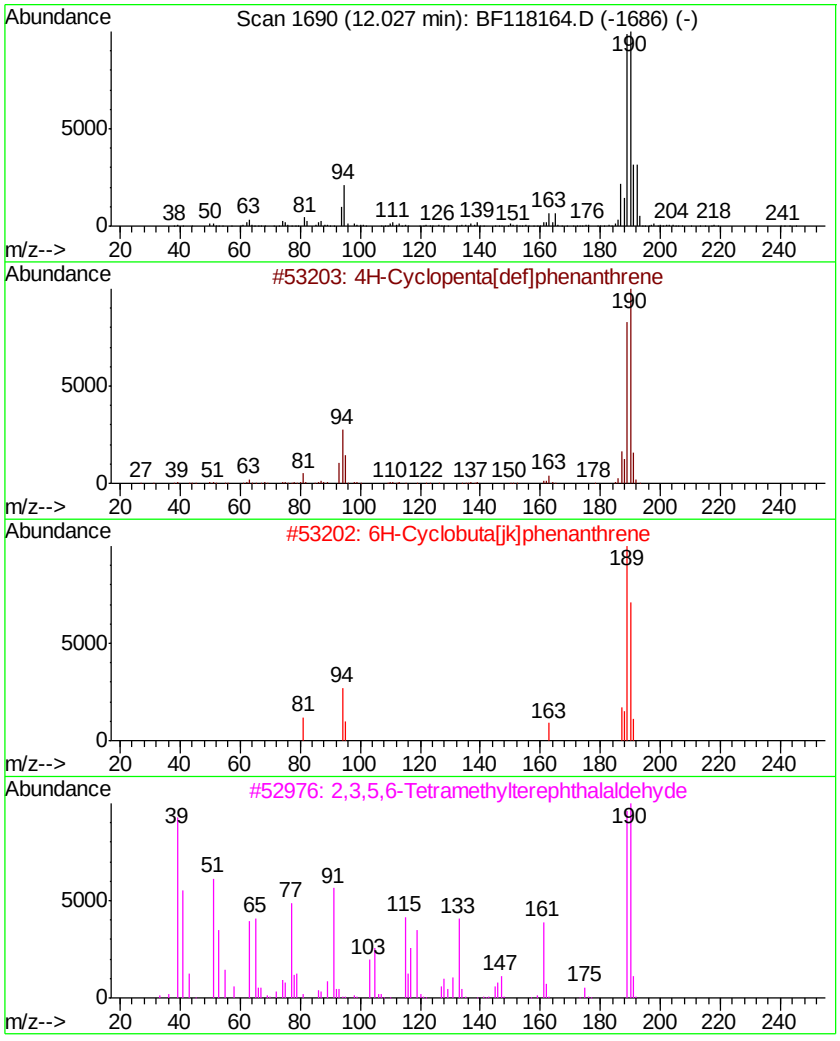
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

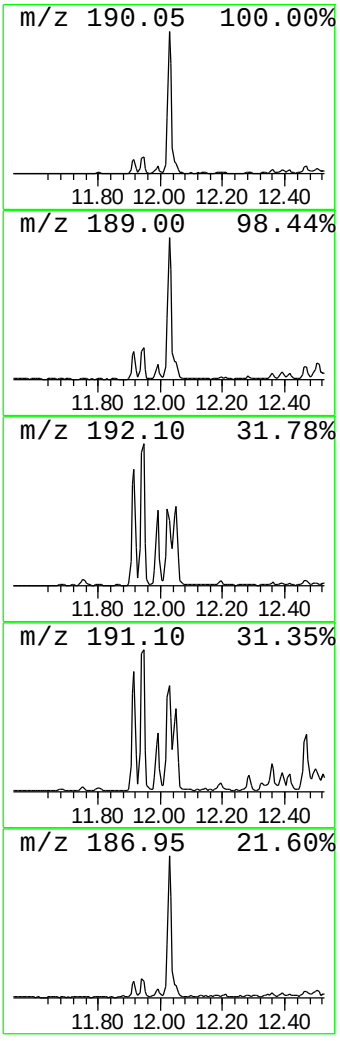
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.03	18.45 ng	779976	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	81
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	64
3	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
5	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	25





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ClientSampleId : CL-01-120619

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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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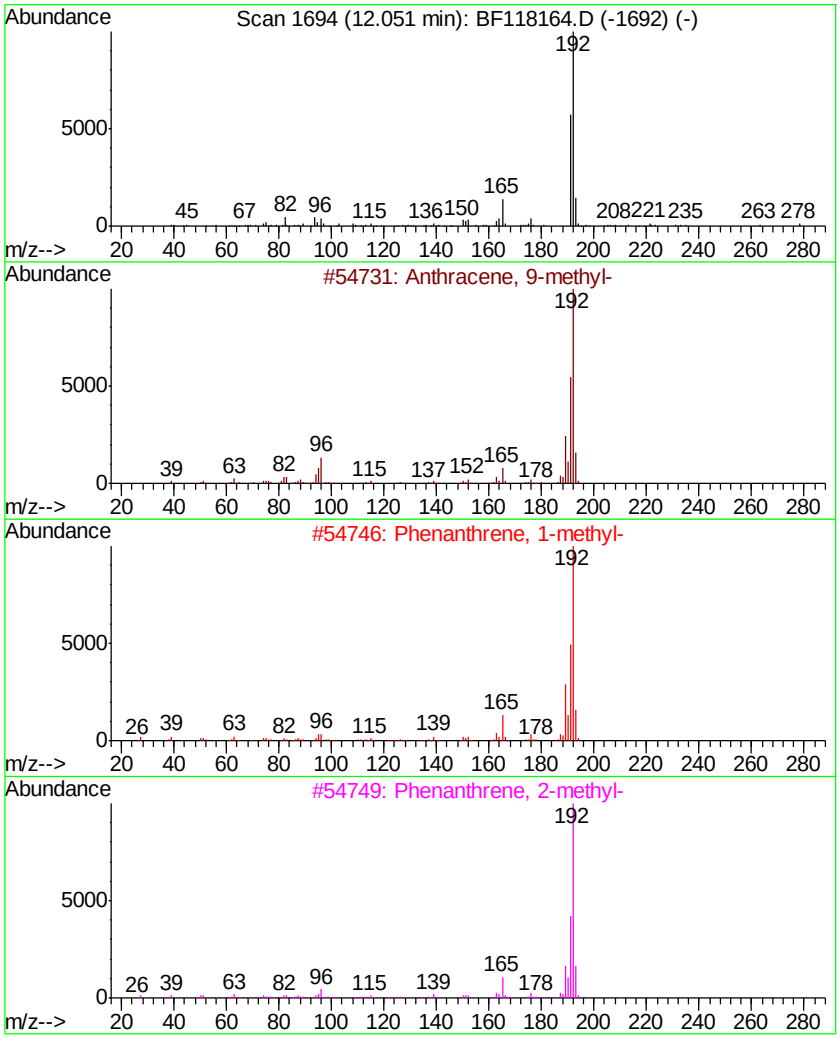
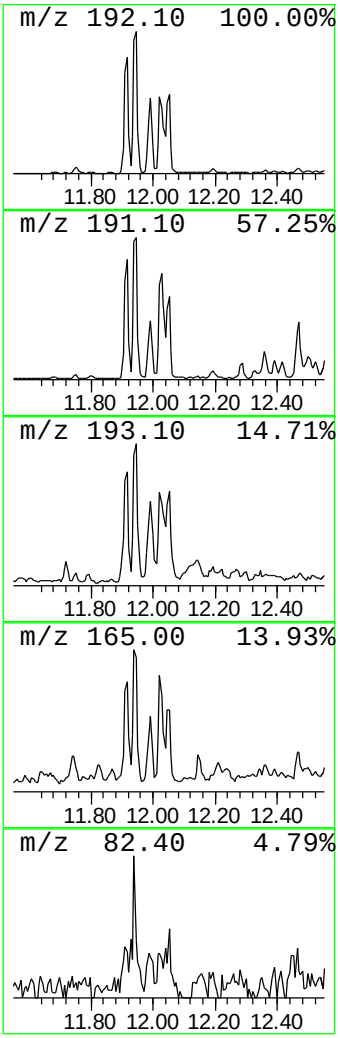
Peak Number 10 Anthracene, 9-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	5.16 ng	218054	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	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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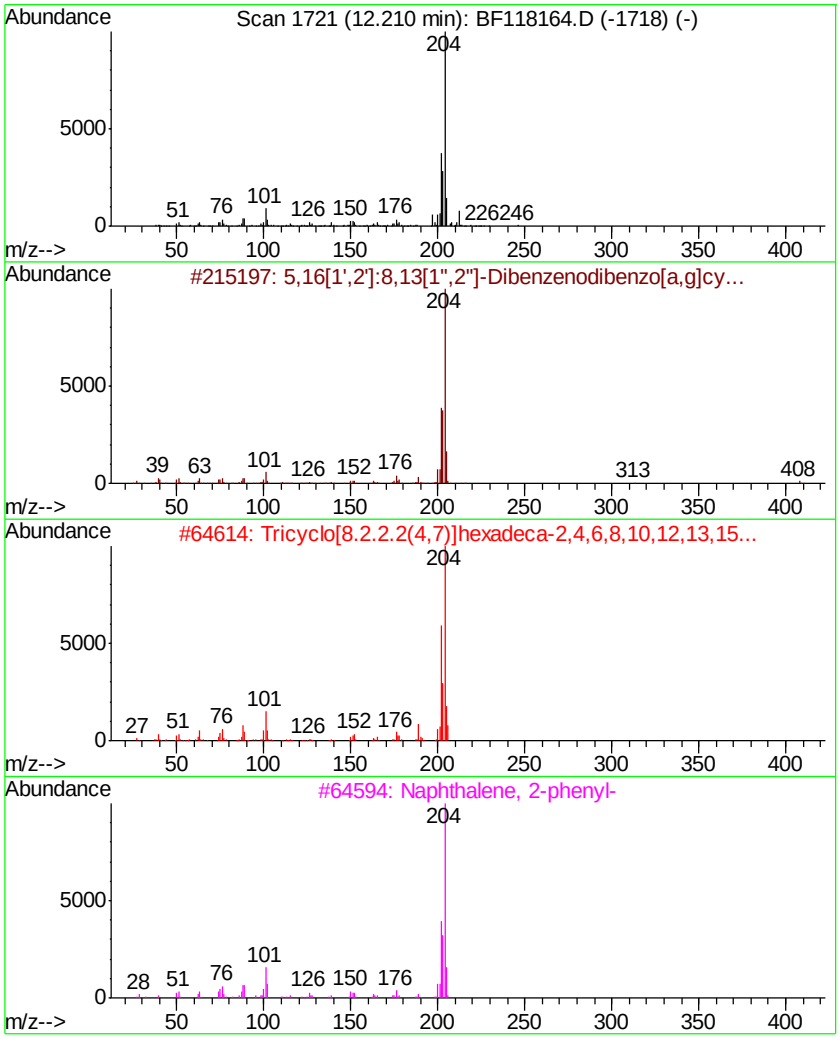
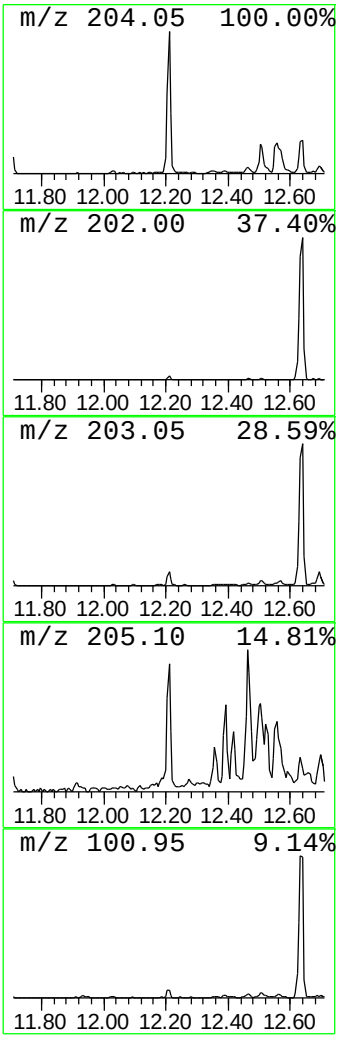
Peak Number 11 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.21	5.86 ng	247854	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	81
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	76
4	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	53
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	52





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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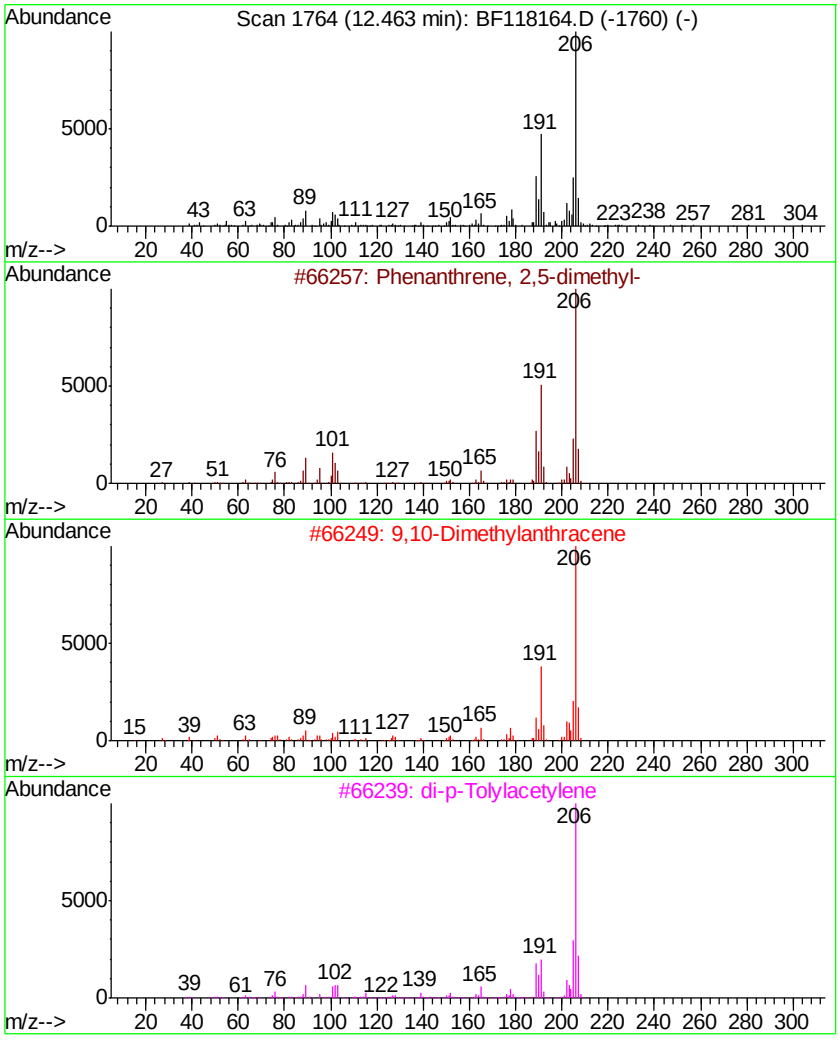
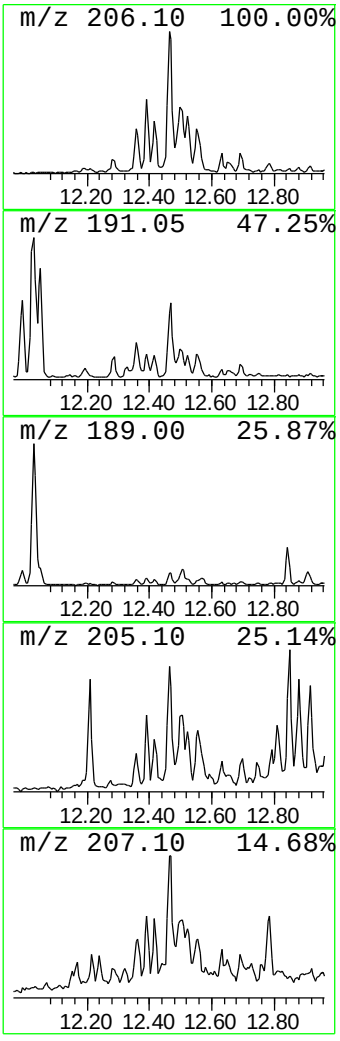
Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	7.28 ng	307646	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	98
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	92
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90





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Operator : JU
Sample : K6111-01 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-120619

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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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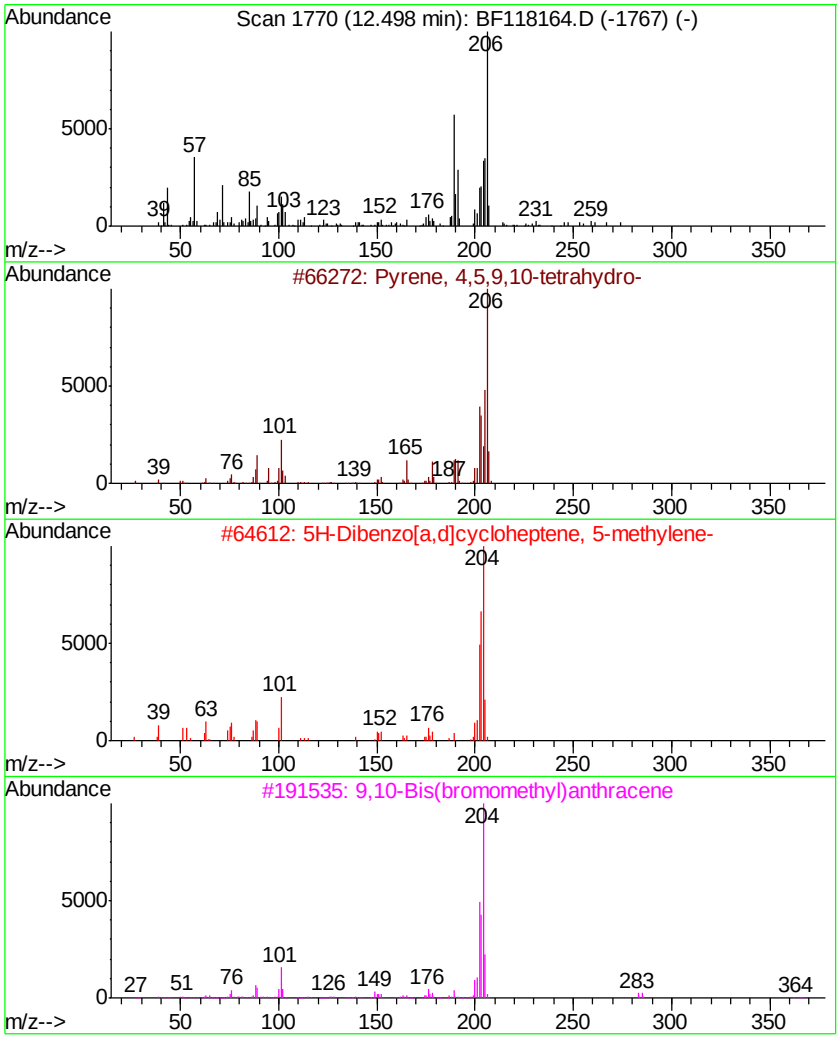
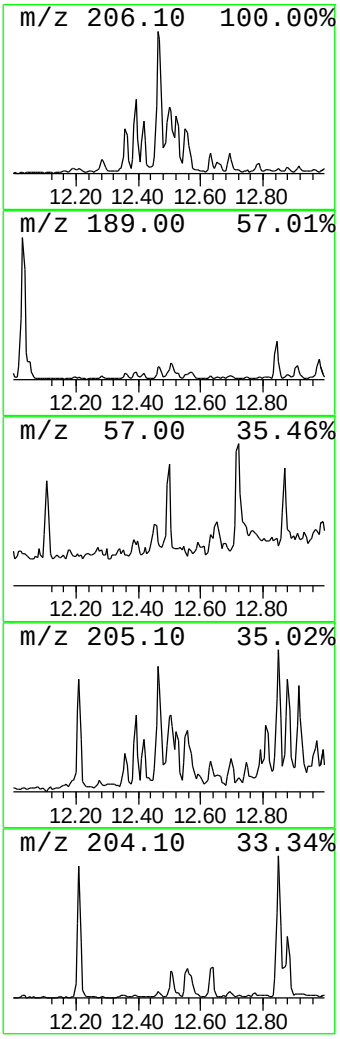
Peak Number 13 unknown12.50 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.50	5.14 ng	217212	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	42
2	5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	38
3	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	35
4	1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	35
5	Levamisole	204	C11H12N2S	014769-73-4	30





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ClientSampleId : CL-01-120619

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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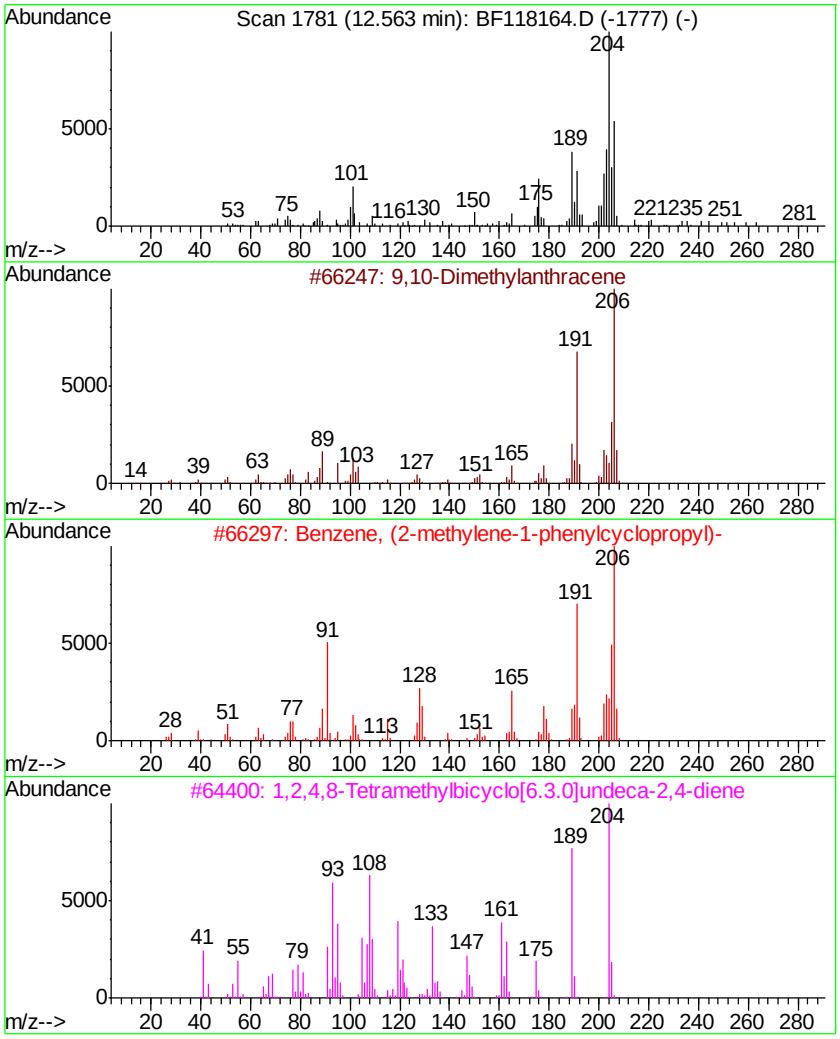
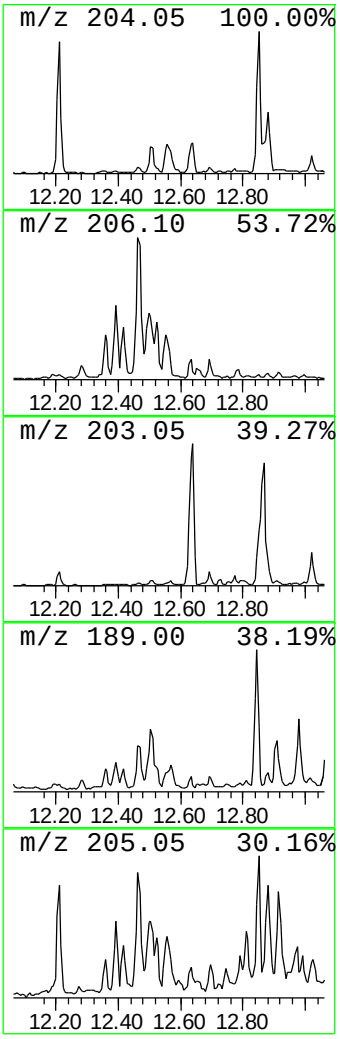
Peak Number 14 unknown12.56 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.56	3.68 ng	155788	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	46
2	Benzene, (2-methylene-1-phenylcy...	206	C16H14	025152-47-0	42
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	42
4	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	41
5	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	41





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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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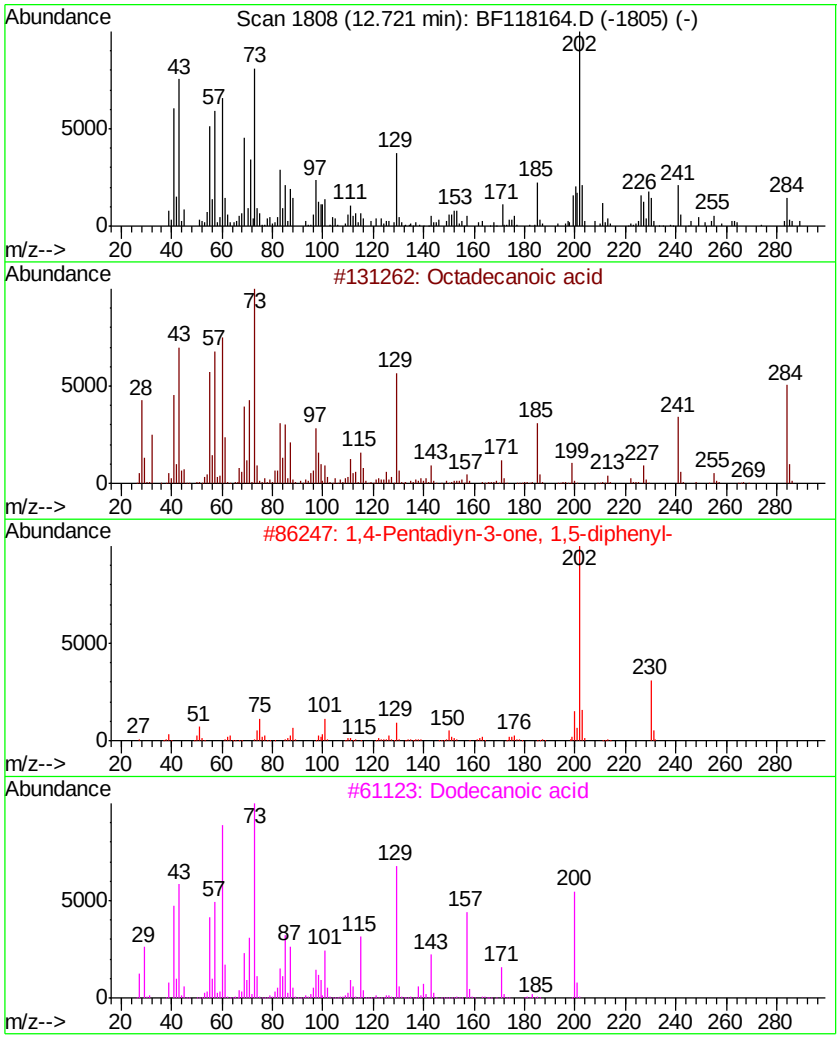
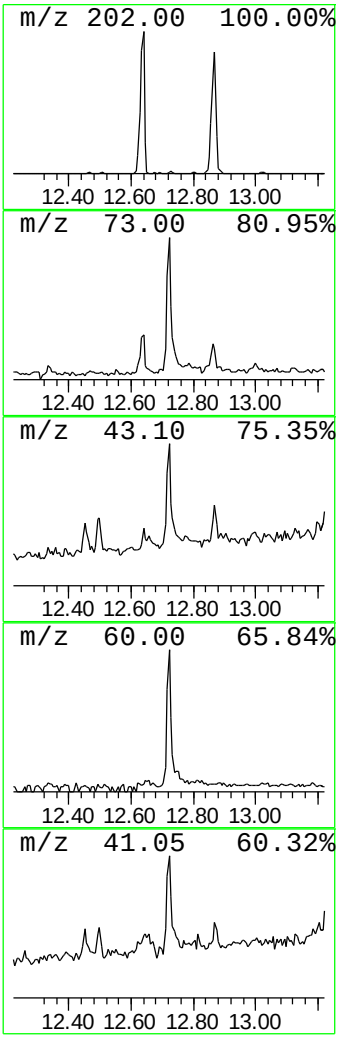
Peak Number 15 Octadecanoic acid Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.72	3.71 ng	156662	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	96
2	1,4-Pentadiyn-3-one, 1,5-diphenyl-	230	C17H10O	015814-30-9	50
3	Dodecanoic acid	200	C12H24O2	000143-07-7	47
4	Fluoranthene	202	C16H10	000206-44-0	38
5	Benzene, 1,1'-(1,3-butadiyne-1,4...	202	C16H10	000886-66-8	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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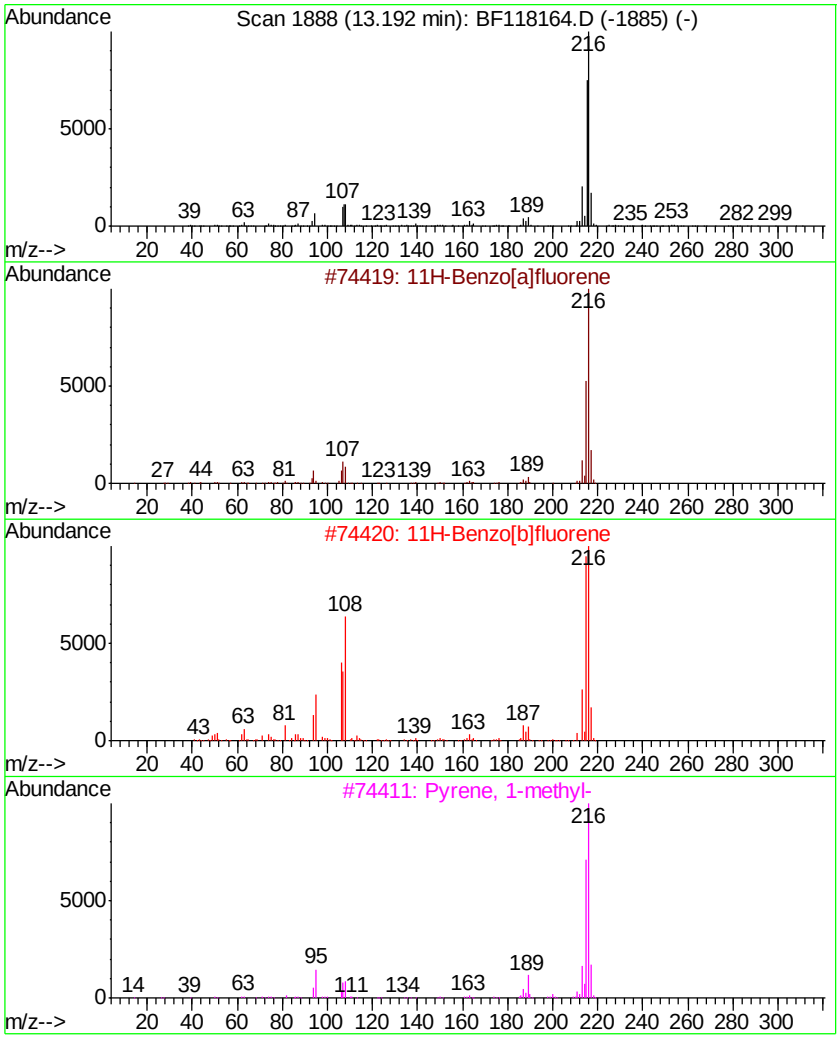
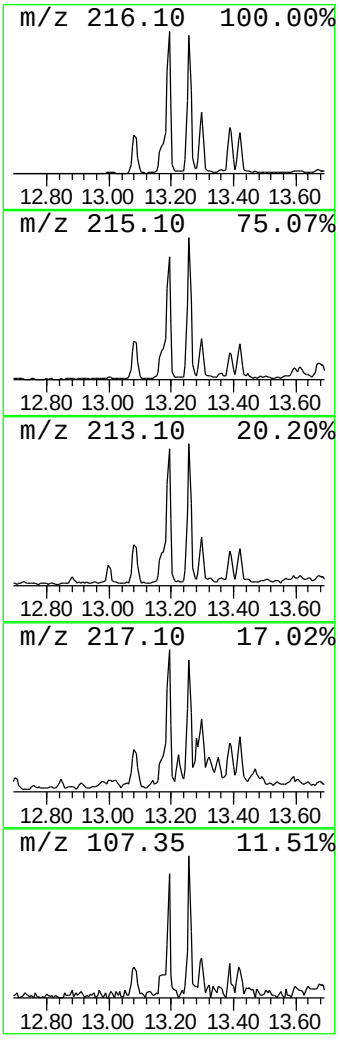
Peak Number 16 11H-Benzo[a]fluorene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.19	4.20 ng	630727	Chrysene-d12	14.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	94
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	62





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

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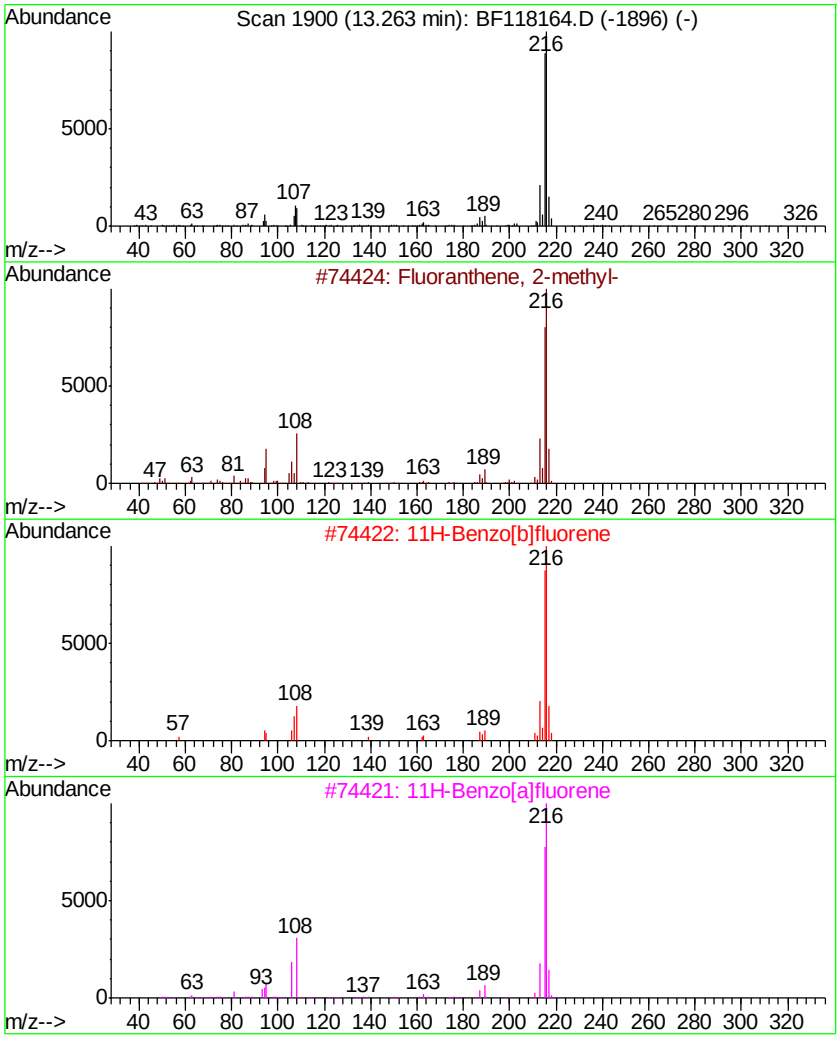
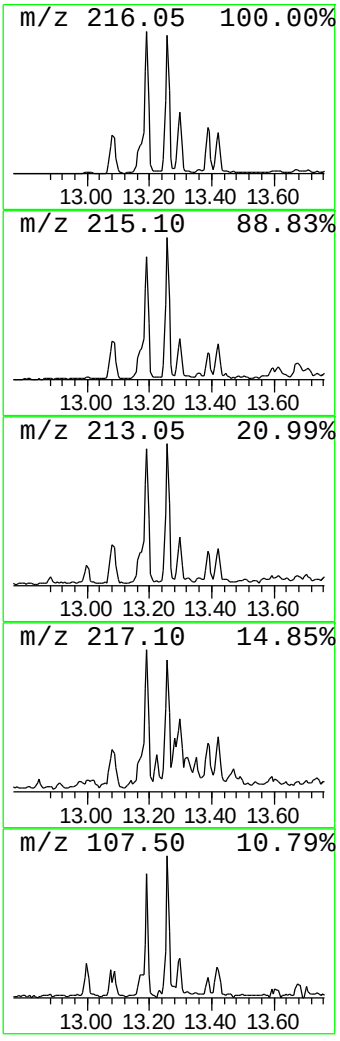
Peak Number 17 Fluoranthene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.26	3.76 ng	564393	Chrysene-d12	14.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	70
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	62





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ClientSampleId : CL-01-120619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120619.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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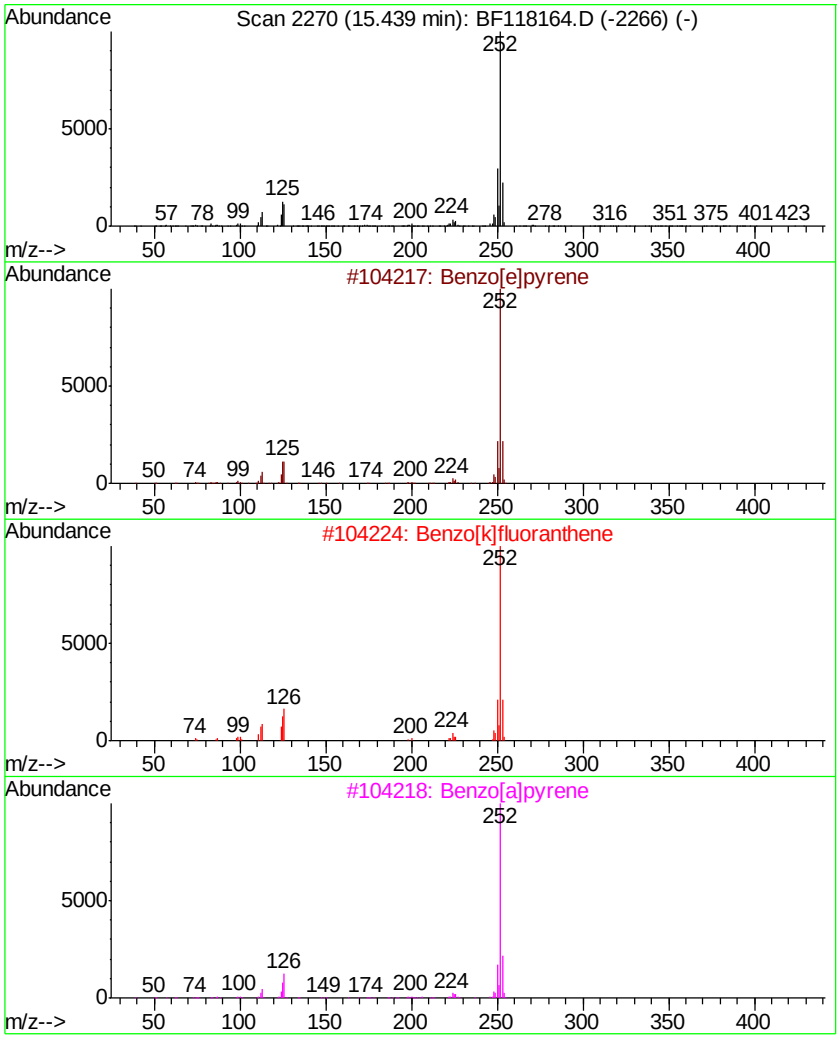
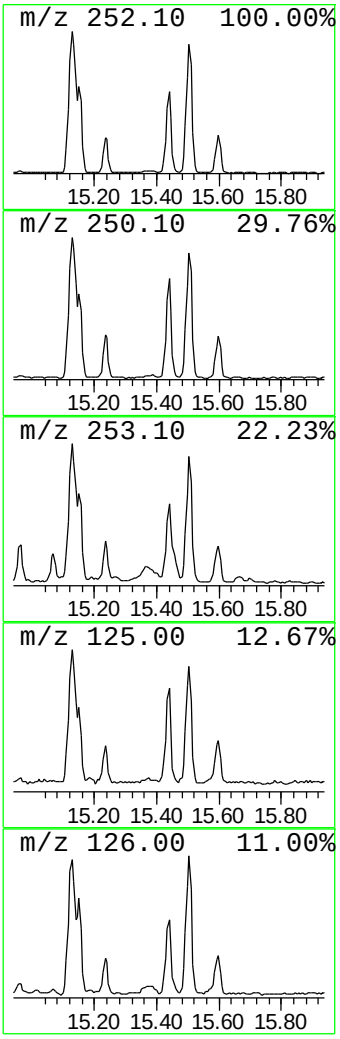
Peak Number 19 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.44	22.25 ng	912087	Perylene-d12	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	97
3	Benzo[a]pyrene	252	C20H12	000050-32-8	97
4	Perylene	252	C20H12	000198-55-0	97
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121019\
Data File : BF118164.D
Acq On : 10 Dec 2019 13:46
Operator : JU
Sample : K6111-01 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-120619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120619.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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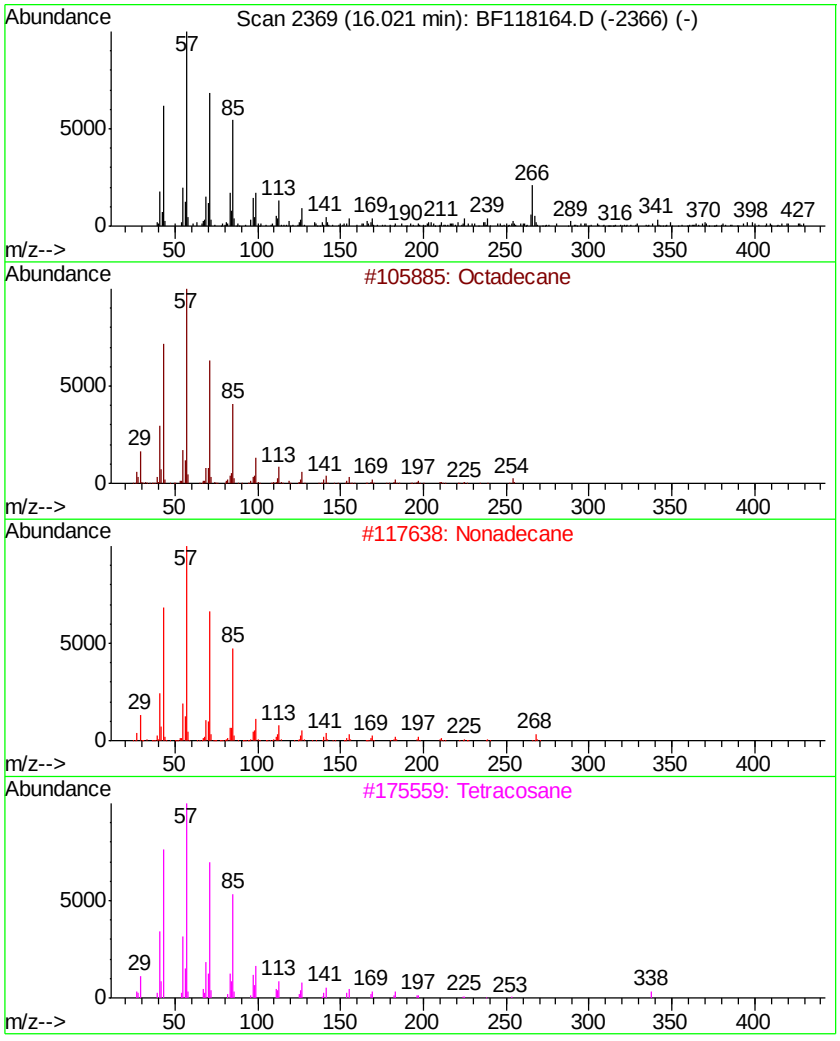
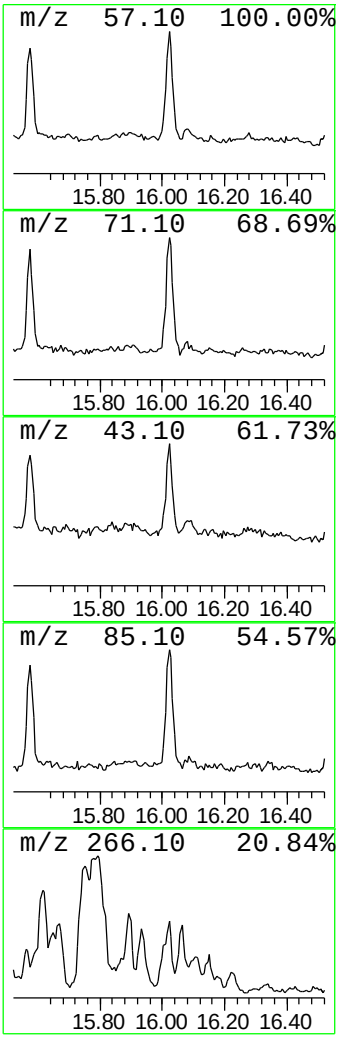
Peak Number 20 Octadecane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.02	5.72 ng	234464	Perylene-d12	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane	254	C18H38	000593-45-3	91
2	Nonadecane	268	C19H40	000629-92-5	91
3	Tetracosane	338	C24H50	000646-31-1	87
4	Decane, 1-iodo-	268	C10H21I	002050-77-3	64
5	Hexacosane	366	C26H54	000630-01-3	64





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF121019\
Data File : BF118164.D
Acq On : 10 Dec 2019 13:46
Operator : JU
Sample : K6111-01 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-120619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120619.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
2-Pentanone, 4-hy...	5.06	7.2	ng	196093	1	6.87	544961	20.0
unknown6.63	6.63	40.8	ng	1111200	1	6.87	544961	20.0
9H-Fluorene, 1-me...	11.02	3.6	ng	153894	4	11.41	845649	20.0
Dibenzothiophene	11.30	5.5	ng	232851	4	11.41	845649	20.0
Phenanthrene, 1-m...	11.92	8.6	ng	362484	4	11.41	845649	20.0
Phenanthrene, 2-m...	11.94	17.1	ng	721760	4	11.41	845649	20.0
Anthracene, 1-met...	11.99	4.6	ng	194405	4	11.41	845649	20.0
4H-Cyclopenta[def...	12.03	18.4	ng	779976	4	11.41	845649	20.0
Anthracene, 9-met...	12.05	5.2	ng	218054	4	11.41	845649	20.0
5,16[1',2']:8,13[...	12.21	5.9	ng	247854	4	11.41	845649	20.0
Phenanthrene, 2,5...	12.46	7.3	ng	307646	4	11.41	845649	20.0
unknown12.50	12.50	5.1	ng	217212	4	11.41	845649	20.0
unknown12.56	12.56	3.7	ng	155788	4	11.41	845649	20.0
Octadecanoic acid	12.72	3.7	ng	156662	4	11.41	845649	20.0
11H-Benzo[a]fluorene	13.19	4.2	ng	630727	5	14.07	3004440	20.0
Fluoranthene, 2-m...	13.26	3.8	ng	564393	5	14.07	3004440	20.0
Benzo[e]pyrene	15.44	22.3	ng	912087	6	15.57	819884	20.0
Octadecane	16.02	5.7	ng	234464	6	15.57	819884	20.0