LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111326.D
Acq On : 12 Dec 2018 17:26
Operator : JU/SJ
Sample : J6214-41
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(0-2)

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-BF121218.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	5.004	493	496	504	rVB	316502	400394	4.88%	0.352%
2	5.410	560	565	568	rBV	6709886	7044643	85.88%	6.190%
3	6.428	732	738	756	rBV	7047443	8202968	100.00%	7.208%
4	6.563	756	761	764	rBV	7693075	7509135	91.54%	6.598%
5	6.792	796	800	803	rBV	2033581	1744782	21.27%	1.533%
6	6.951	822	827	830	rBV	6297048	5755663	70.17%	5.058%
7	7.351	889	895	898	rBV	5108893	5108540	62.28%	4.489%
8	8.075	1013	1018	1021	rBV	2619574	2390786	29.15%	2.101%
9	9.151	1196	1201	1204	rBV	8535327	7770732	94.73%	6.828%
10	9.539	1264	1267	1271	rBV	982665	742638	9.05%	0.653%
11	9.828	1310	1316	1319	rBV	2844300	2477198	30.20%	2.177%
12	9.857	1319	1321	1324	rVB	293770	222512	2.71%	0.196%
13	10.028	1347	1350	1354	rBV	175786	158346	1.93%	0.139%
14	10.233	1381	1385	1389	rBV2	88908	127969	1.56%	0.112%
15	10.369	1405	1408	1415	rBV	265305	243240	2.97%	0.214%
16	10.528	1433	1435	1441	rVB	130360	138023	1.68%	0.121%
17	10.610	1445	1449	1454	rBV	3425817	3288100	40.08%	2.889%
18	10.739	1468	1471	1478	rVB2	114443	125065	1.52%	0.110%
19	10.922	1495	1502	1505	rBV3	109716	193062	2.35%	0.170%
20	11.051	1519	1524	1525	rBV2	98904	103773	1.27%	0.091%
21	11.110	1532	1534	1539	rVB	192196	191787	2.34%	0.169%
22	11.163	1539	1543	1546	rBV3	110515	168494	2.05%	0.148%
23	11.204	1546	1550	1556	rVB	223064	277103	3.38%	0.243%
24	11.310	1564	1568	1570	rBV	2292214	2044308	24.92%	1.796%
25	11.333	1570	1572	1576	rVV	4184906	3499718	42.66%	3.075%
26	11.380	1577	1580	1584	rVV	953337	901348	10.99%	0.792%
27	11.416	1584	1586	1589	rVB2	111433	97610	1.19%	0.086%
28	11.533	1601	1606	1609	rBV2	224504	249297	3.04%	0.219%
29	11.610	1616	1619	1622	rBV2	108782	93977	1.15%	0.083%
30	11.639	1622	1624	1627	rVB2	113505	85376	1.04%	0.075%
31	11.810	1650	1653	1655	rBV	591447	483700	5.90%	0.425%
32	11.839	1655	1658	1663	rVV2	1333137	1482330	18.07%	1.303%
33	11.886	1663	1666	1669	rVV	306134	311955	3.80%	0.274%
34	11.922	1669	1672	1674	rVV2	787300	801726	9.77%	0.704%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
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Acq On : 12 Dec 2018 17:26
Operator : JU/SJ
Sample : J6214-41
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(0-2)

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-BF121218.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.945	1674	1676	1679	rVB	411361	318466	3.88%	0.280%
36	12.104	1700	1703	1705	rBV	426208	391030	4.77%	0.344%
37	12.122	1705	1706	1714	rVB2	334528	293252	3.57%	0.258%
38	12.257	1724	1729	1732	rBV	175985	199627	2.43%	0.175%
39	12.286	1732	1734	1736	rBV	130923	88111	1.07%	0.077%
40	12.310	1736	1738	1741	rVB	131524	100234	1.22%	0.088%
41	12.363	1743	1747	1749	rBV	359009	381137	4.65%	0.335%
42	12.398	1749	1753	1755	rBV	138882	163380	1.99%	0.144%
43	12.445	1758	1761	1766	rVB2	274286	335373	4.09%	0.295%
44	12.527	1770	1775	1778	rBV	5651692	5201507	63.41%	4.571%
45	12.569	1778	1782	1787	rVB4	88777	144187	1.76%	0.127%
46	12.633	1787	1793	1798	rBV	1581606	1923652	23.45%	1.690%
47	12.751	1807	1813	1817	rBV2	4334614	5066691	61.77%	4.452%
48	12.798	1819	1821	1827	rVB2	257583	318941	3.89%	0.280%
49	12.869	1830	1833	1834	rBV	322870	259140	3.16%	0.228%
50	12.898	1834	1838	1841	rVV	4962947	4406934	53.72%	3.872%
51	12.969	1845	1850	1853	rBV2	353168	567946	6.92%	0.499%
52	13.057	1862	1865	1866	rBV2	241846	259436	3.16%	0.228%
53	13.074	1866	1868	1872	rVB	545025	540205	6.59%	0.475%
54	13.139	1876	1879	1882	rBV2	359780	358542	4.37%	0.315%
55	13.180	1882	1886	1889	rBV	547725	538920	6.57%	0.474%
56	13.274	1899	1902	1904	rBV	259317	196007	2.39%	0.172%
57	13.304	1904	1907	1911	rBV2	272507	247491	3.02%	0.217%
58	13.374	1917	1919	1927	rVB5	126182	182646	2.23%	0.160%
59	13.457	1930	1933	1935	rBV3	81106	108198	1.32%	0.095%
60	13.480	1935	1937	1939	rBV2	163449	130213	1.59%	0.114%
61	13.580	1951	1954	1959	rVB	466677	495255	6.04%	0.435%
62	13.692	1969	1973	1976	rBV2	489126	629852	7.68%	0.553%
63	13.721	1976	1978	1980	rVV	427148	386619	4.71%	0.340%
64	13.745	1980	1982	1986	rVV2	366830	466490	5.69%	0.410%
65	13.786	1986	1989	1991	rVV2	399058	406419	4.95%	0.357%
66	13.816	1991	1994	2000	rVB	497351	717836	8.75%	0.631%
67	13.939	2008	2015	2019	rBV3	3247560	5030563	61.33%	4.420%
68	13.974	2019	2021	2026	rVB	2828547	2455233	29.93%	2.157%
69	14.051	2032	2034	2038	rBV	242765	197073	2.40%	0.173%
70	14.127	2045	2047	2050	rVB2	324053	274218	3.34%	0.241%
71	14.163	2050	2053	2058	rVV2	212677	289470	3.53%	0.254%

LSC Area Percent Report

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Operator : JU/SJ
Sample : J6214-41
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(0-2)

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-BF121218.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.204	2058	2060	2062	rVB2	124778	91510	1.12%	0.080%
73	14.298	2074	2076	2078	rBV	150741	140937	1.72%	0.124%
74	14.333	2078	2082	2085	rVV	532235	557574	6.80%	0.490%
75	14.368	2085	2088	2091	rVB	315563	300916	3.67%	0.264%
76	14.427	2095	2098	2101	rVB3	275149	283322	3.45%	0.249%
77	14.457	2101	2103	2105	rBV	237654	227938	2.78%	0.200%
78	14.633	2130	2133	2136	rBV2	154370	210687	2.57%	0.185%
79	14.733	2148	2150	2158	rVB3	238360	319367	3.89%	0.281%
80	14.810	2159	2163	2171	rVB3	204731	375239	4.57%	0.330%
81	14.974	2186	2191	2194	rBV	2243275	3587002	43.73%	3.152%
82	15.074	2205	2208	2212	rVB2	495651	583207	7.11%	0.512%
83	15.268	2236	2241	2246	rVB	1332134	1752595	21.37%	1.540%
84	15.327	2246	2251	2257	rBV	1932411	2282357	27.82%	2.006%
85	15.386	2257	2261	2264	rVV	980368	1241881	15.14%	1.091%
86	15.415	2264	2266	2273	rVB2	547447	814120	9.92%	0.715%
87	16.792	2494	2500	2508	rVB2	689633	1456313	17.75%	1.280%
88	17.215	2566	2572	2584	rVB	509393	1072222	13.07%	0.942%

Sum of corrected areas: 113803779

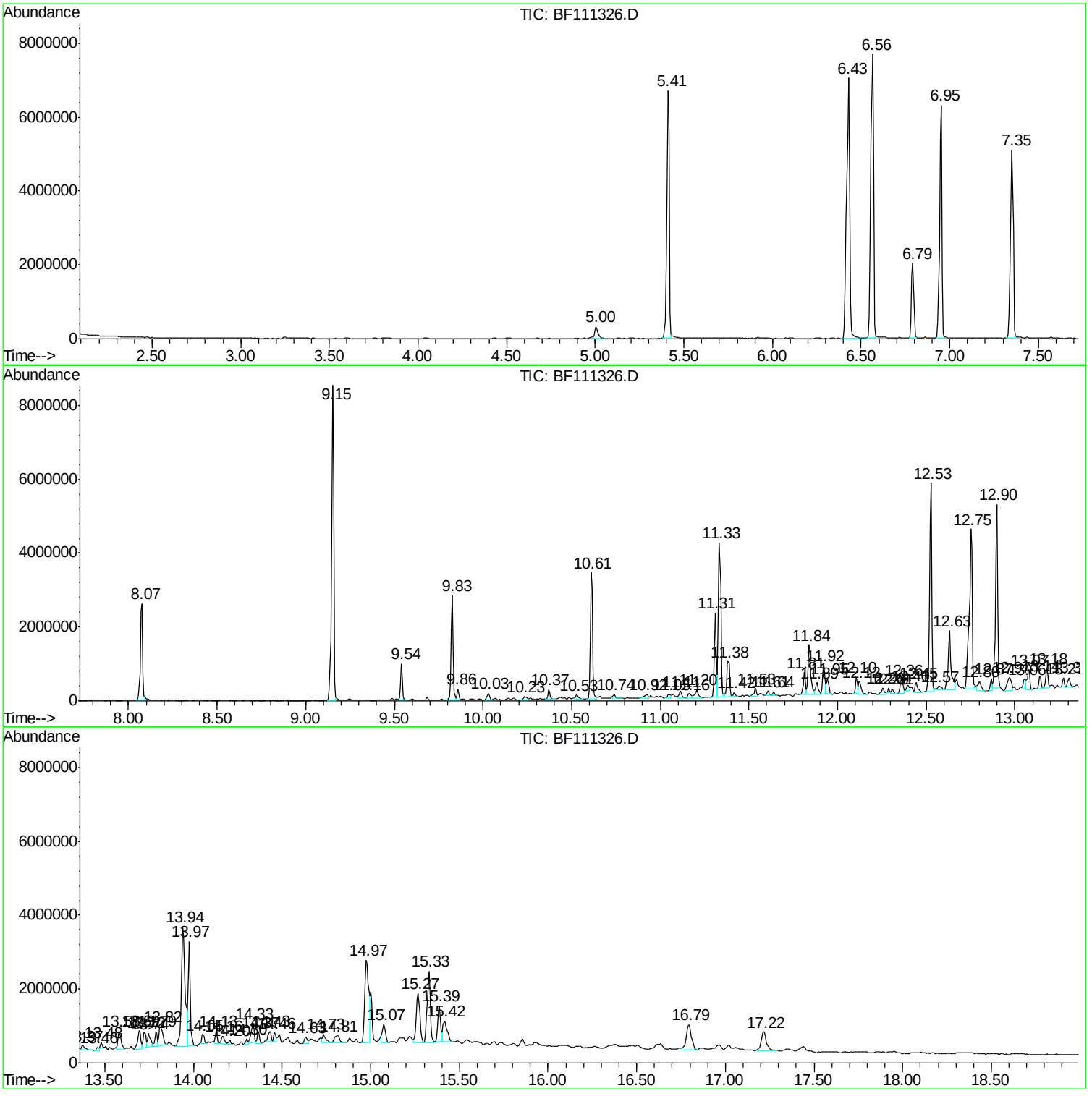
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111326.D
Acq On : 12 Dec 2018 17:26
Operator : JU/SJ
Sample : J6214-41
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111326.D
Acq On : 12 Dec 2018 17:26
Operator : JU/SJ
Sample : J6214-41
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

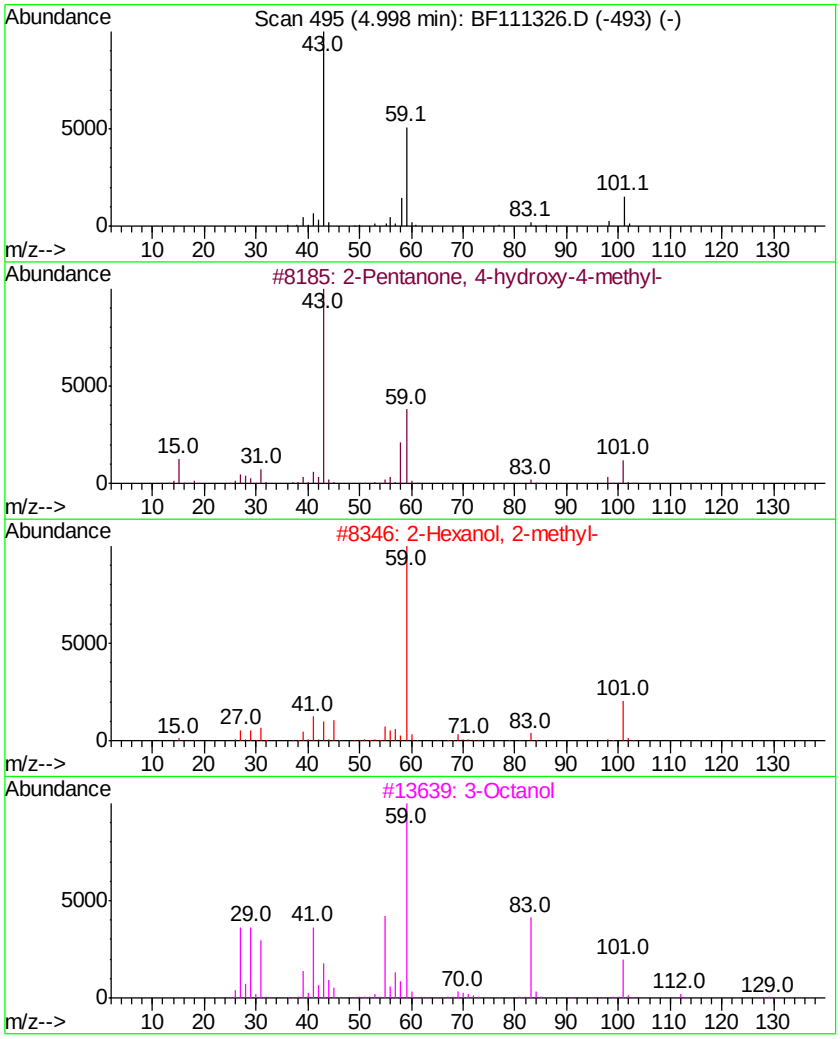
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

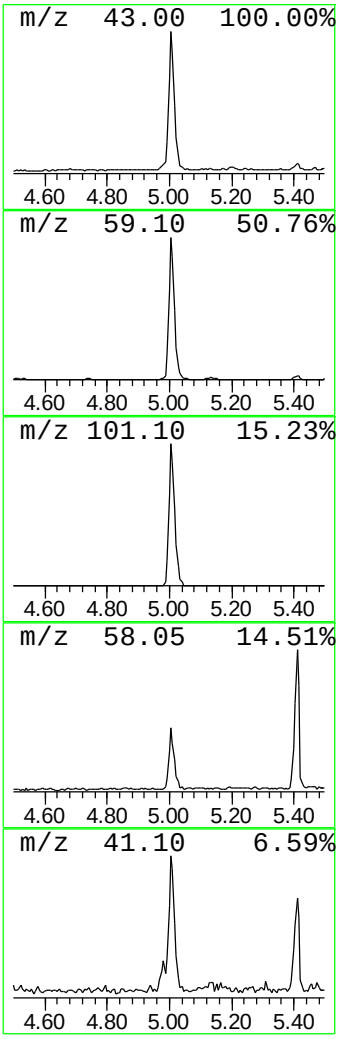
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.00	4.59 ng	400394	1,4-Dichlorobenzene-d4	6.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	38
3	3-Octanol	130	C8H18O	000589-98-0	33
4	3,3-Dimethylbutylamine	101	C6H15N	015673-00-4	9
5	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111326.D
Acq On : 12 Dec 2018 17:26
Operator : JU/SJ
Sample : J6214-41
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

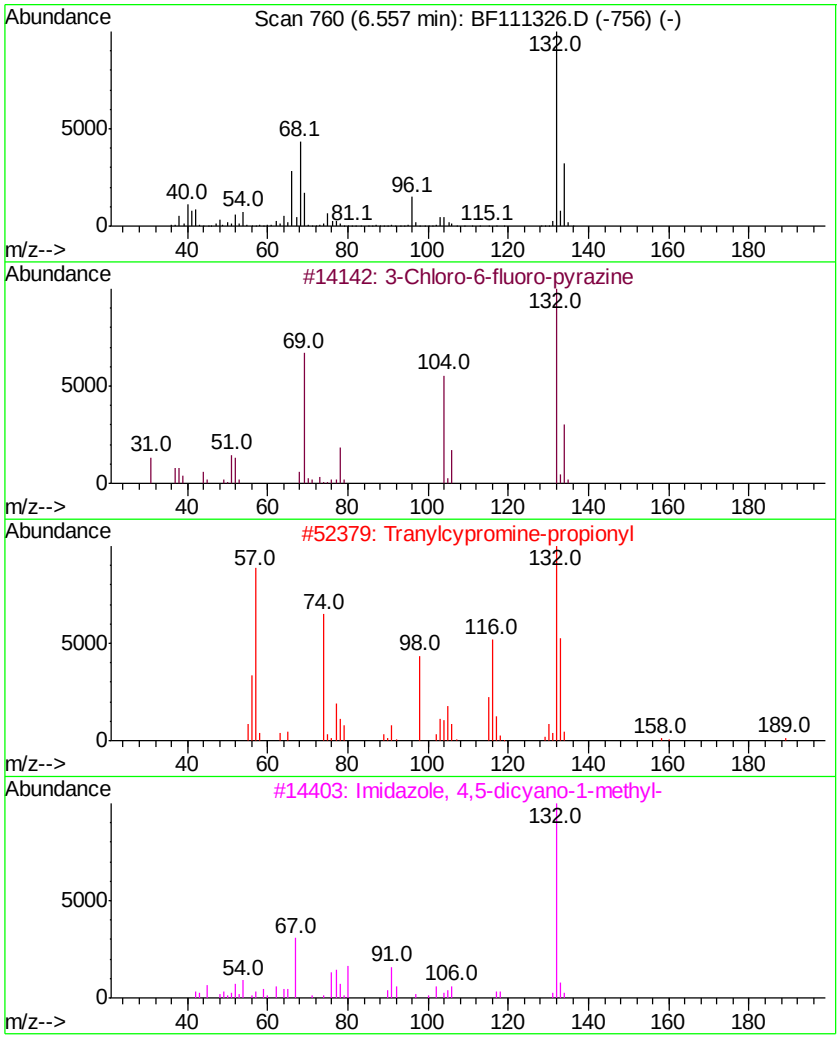
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

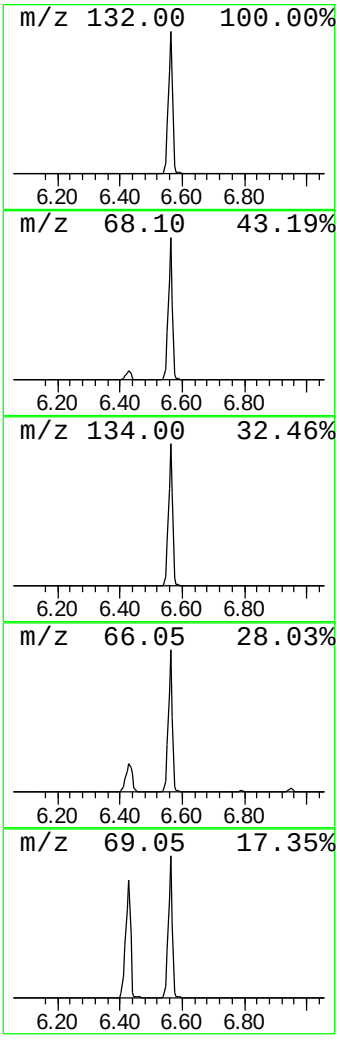
****

Peak Number 2 unknown6.56 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.56	86.08 ng	7509140	1,4-Dichlorobenzene-d4	6.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
3	Imidazole, 4,5-dicyano-1-methyl-	132	C6H4N4	019485-35-9	9
4	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	9
5	1,3,5-Trifluorobenzene	132	C6H3F3	000372-38-3	9





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Data File : BF111326.D
Acq On : 12 Dec 2018 17:26
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Sample : J6214-41
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ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

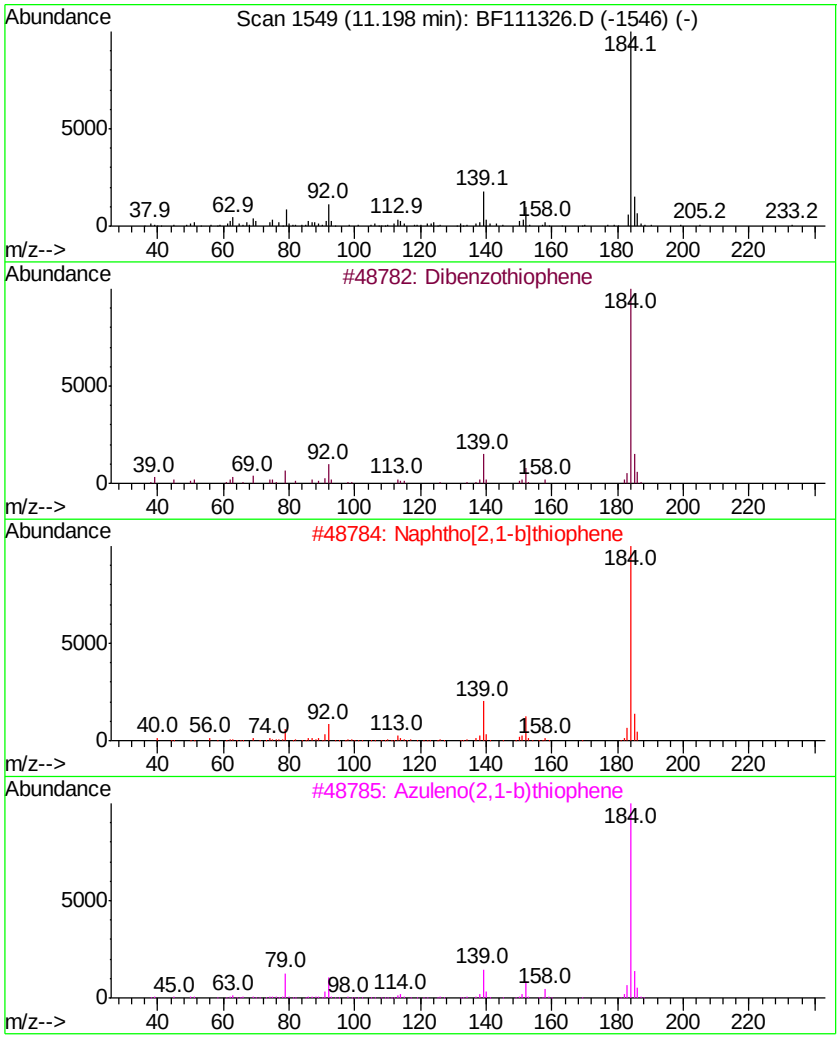
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

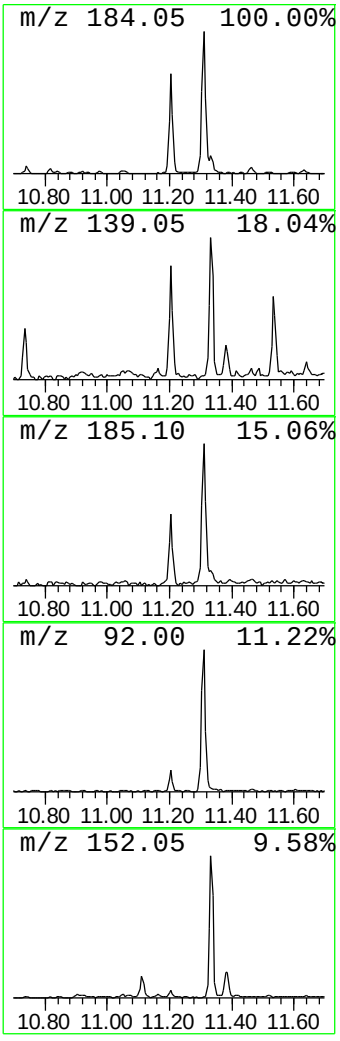
****

Peak Number 4 Dibenzothiophene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.20	2.71 ng	277103	Phenanthrene-d10	11.31

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	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	94
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	93
5	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	90





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111326.D
Acq On : 12 Dec 2018 17:26
Operator : JU/SJ
Sample : J6214-41
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

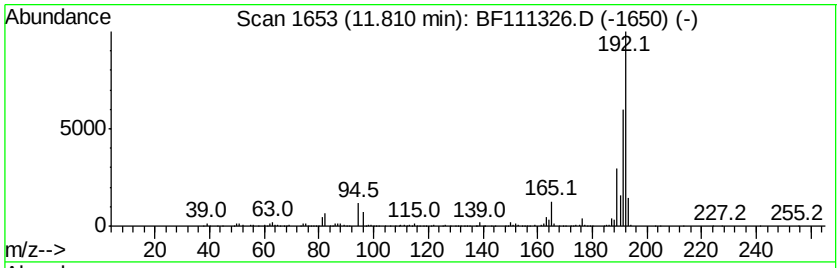
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

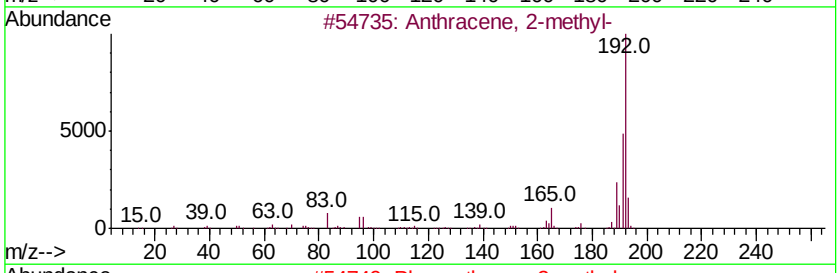
****

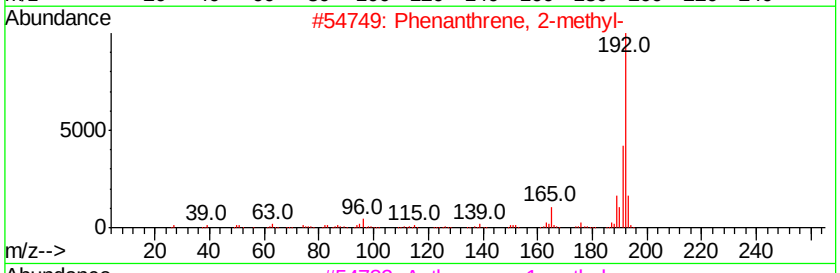
Peak Number 5 Anthracene, 2-methyl- Concentration Rank 10

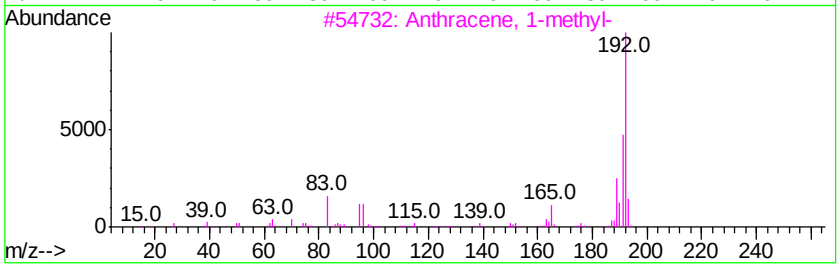
R.T.	EstConc	Area	Relative to ISTD	R.T.
11.81	4.73 ng	483700	Phenanthrene-d10	11.31

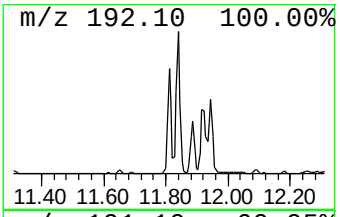
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91

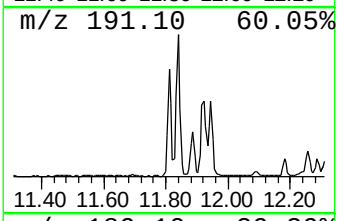


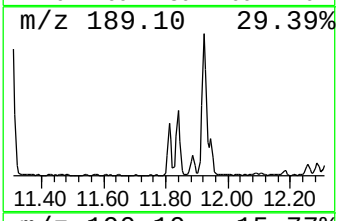


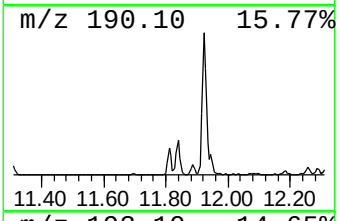


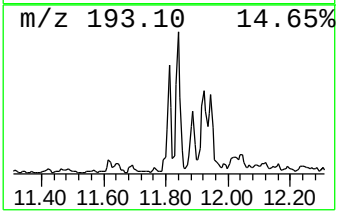












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Data File : BF111326.D
Acq On : 12 Dec 2018 17:26
Operator : JU/SJ
Sample : J6214-41
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(0-2)

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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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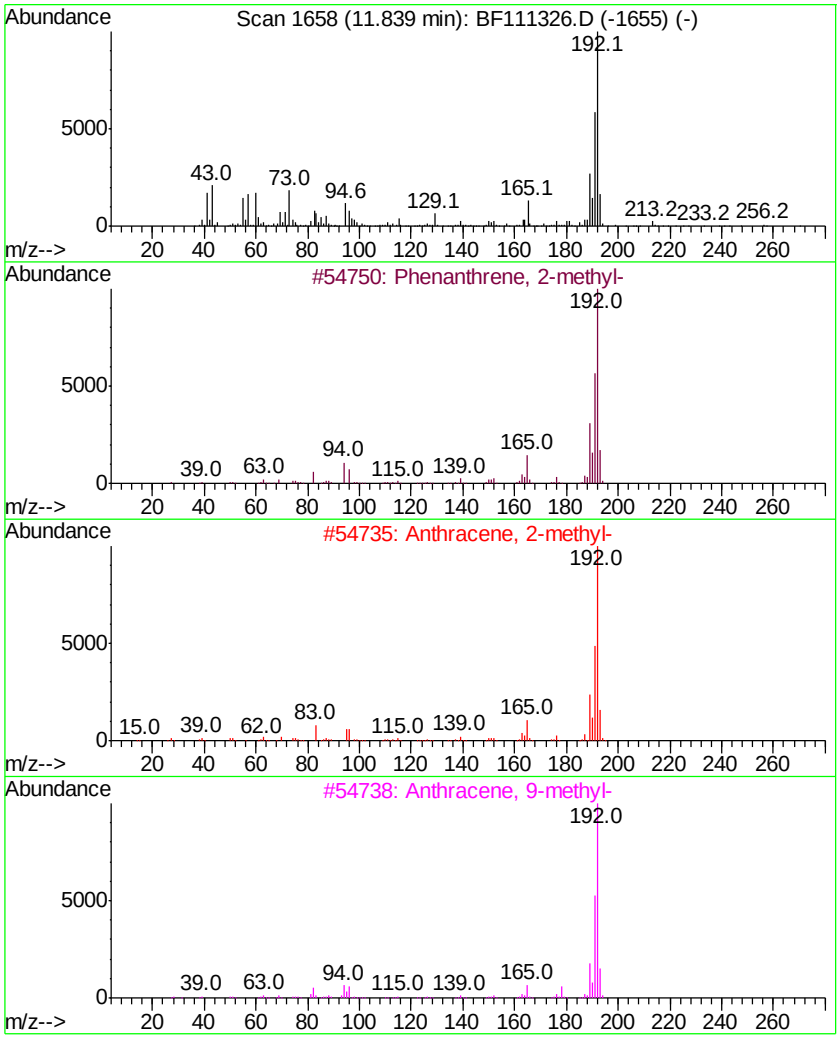
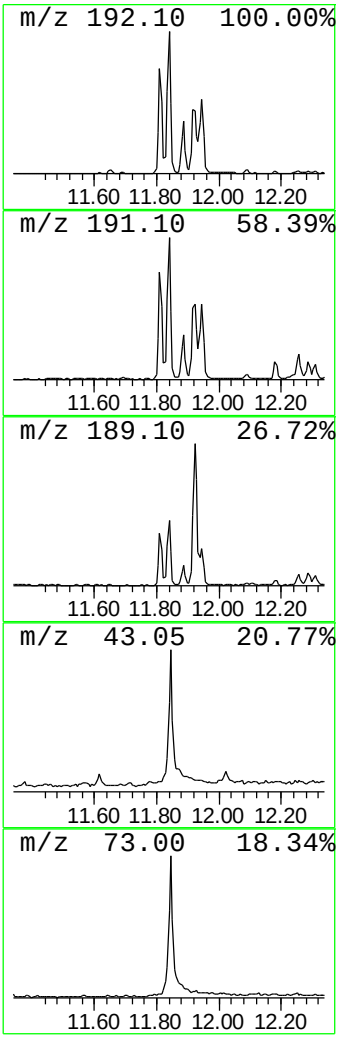
Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.84	14.50 ng	1482330	Phenanthrene-d10	11.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	96
4	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	95
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94





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Sample : J6214-41
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(0-2)

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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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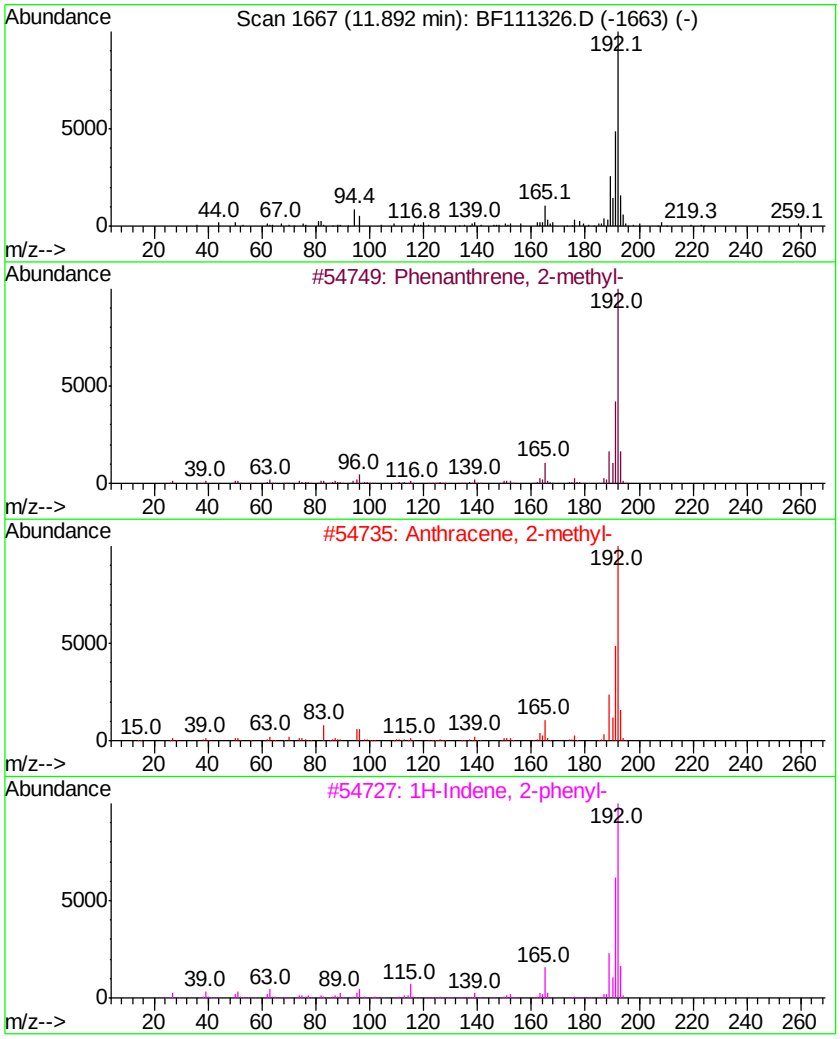
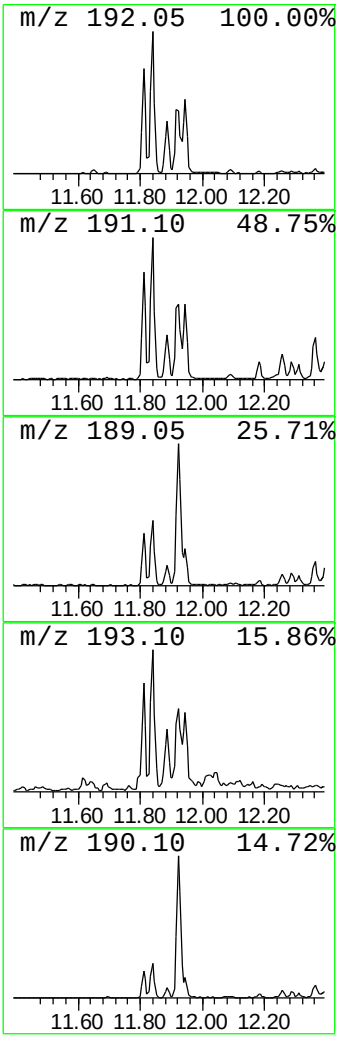
Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	3.05 ng	311955	Phenanthrene-d10	11.31

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	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94





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Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(0-2)

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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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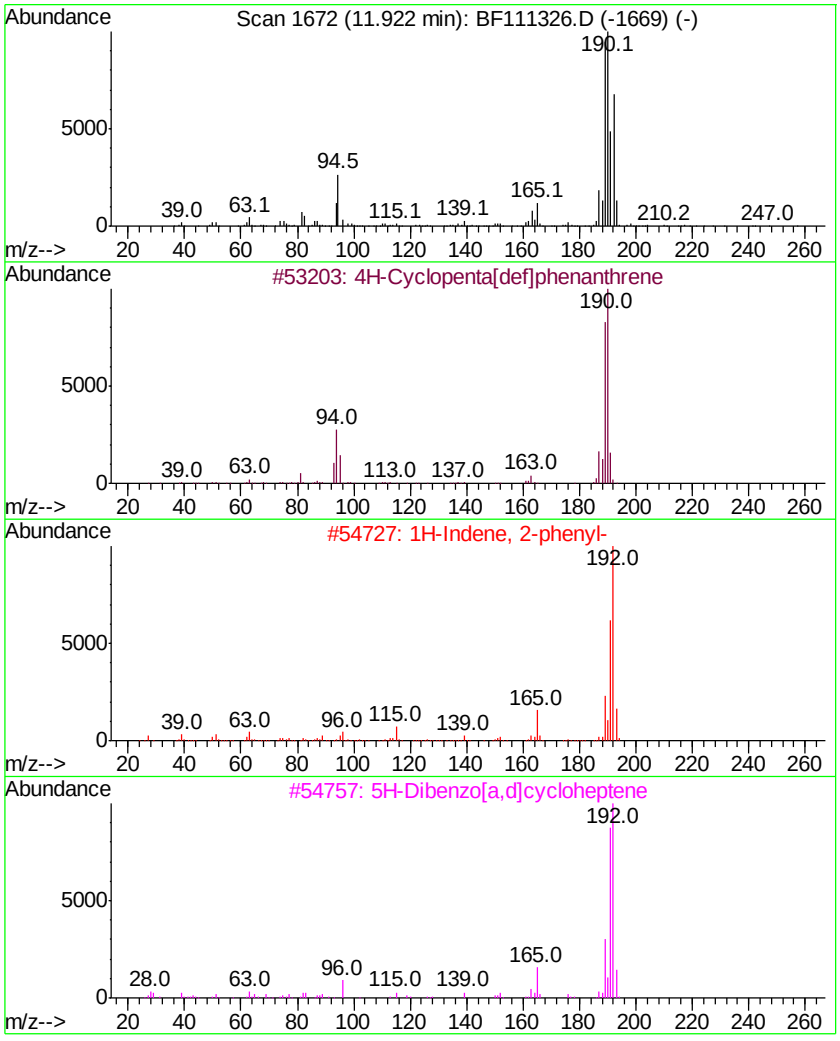
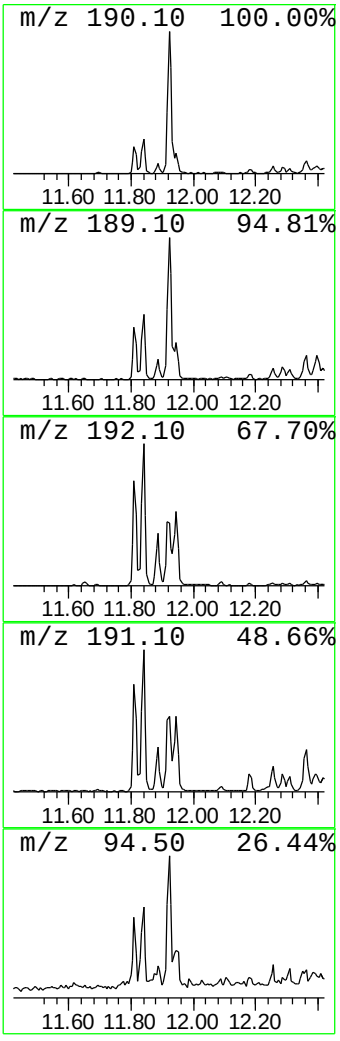
Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	7.84 ng	801726	Phenanthrene-d10	11.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	38
3	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	38
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	38
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	35





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Instrument : BNA_F
ClientSampleId : SB-5(0-2)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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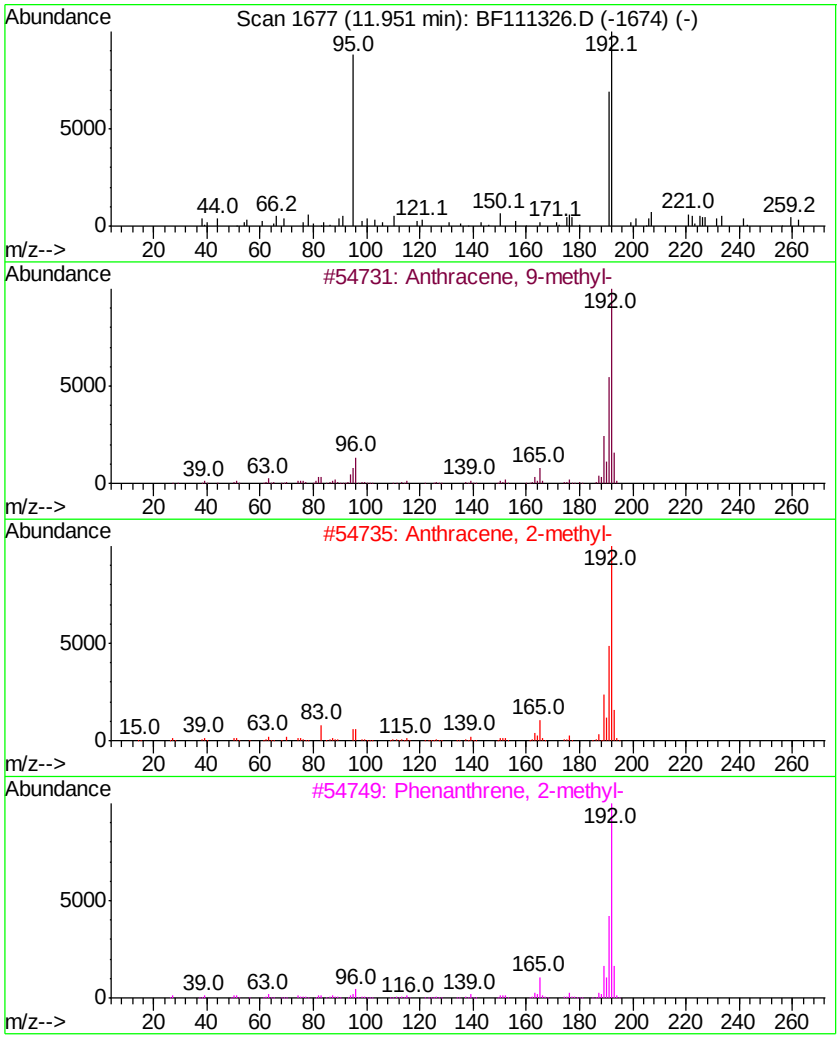
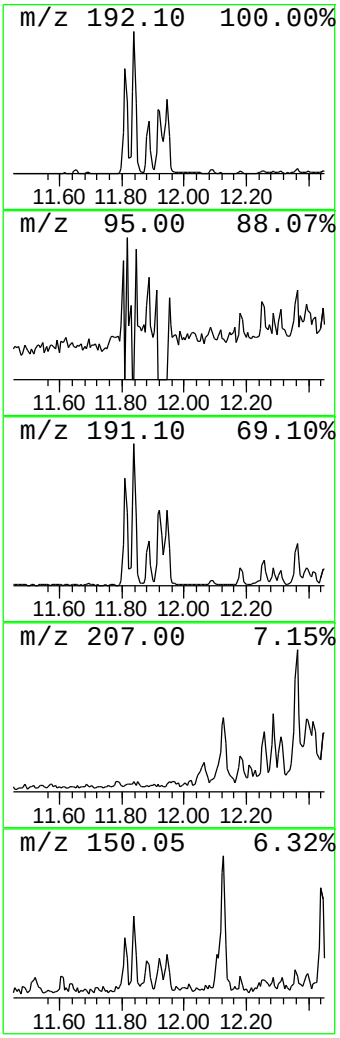
Peak Number 9 Anthracene, 9-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.95	3.12 ng	318466	Phenanthrene-d10	11.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	87
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	87
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	86
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	86





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Operator : JU/SJ
Sample : J6214-41
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(0-2)

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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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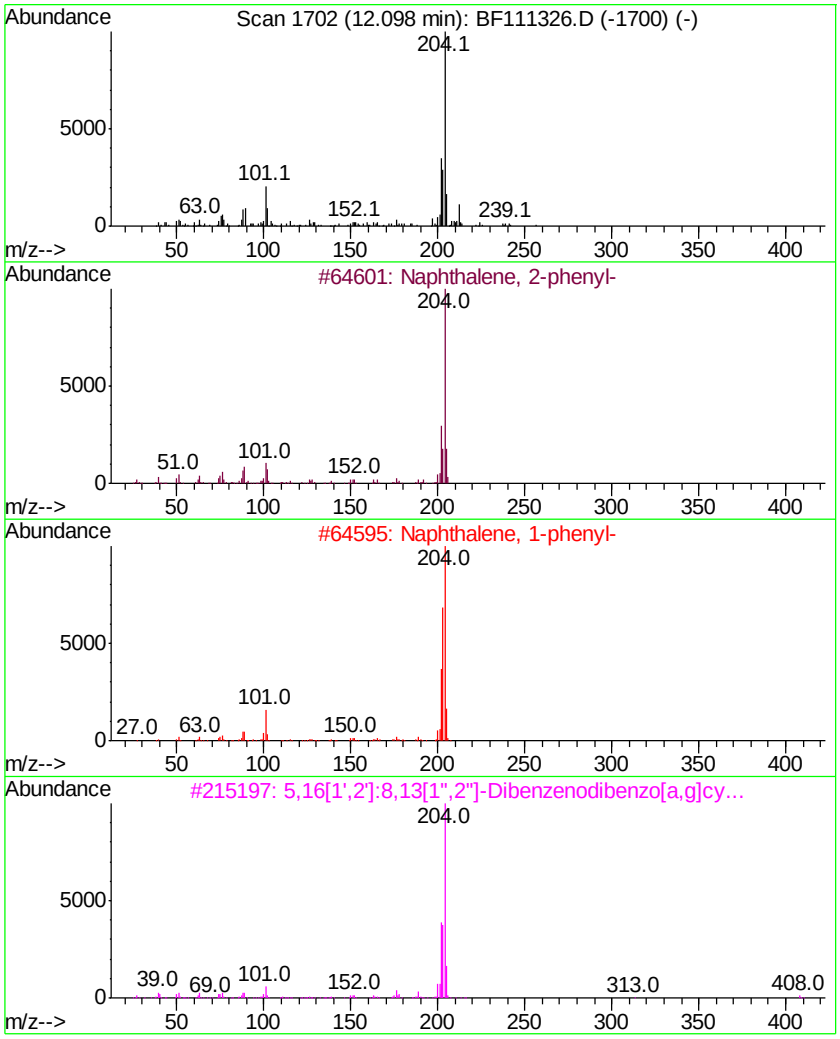
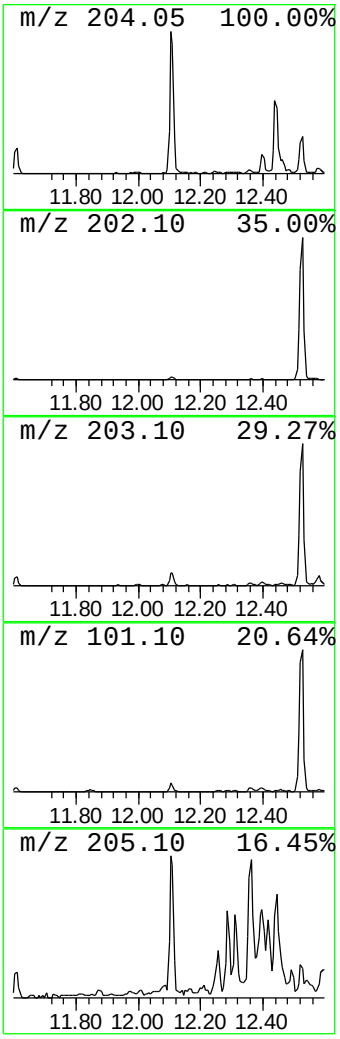
Peak Number 10 Naphthalene, 1-phenyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.10	3.83 ng	391030	Phenanthrene-d10	11.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
2	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	83
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	78
4	9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	52
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	50





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Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(0-2)

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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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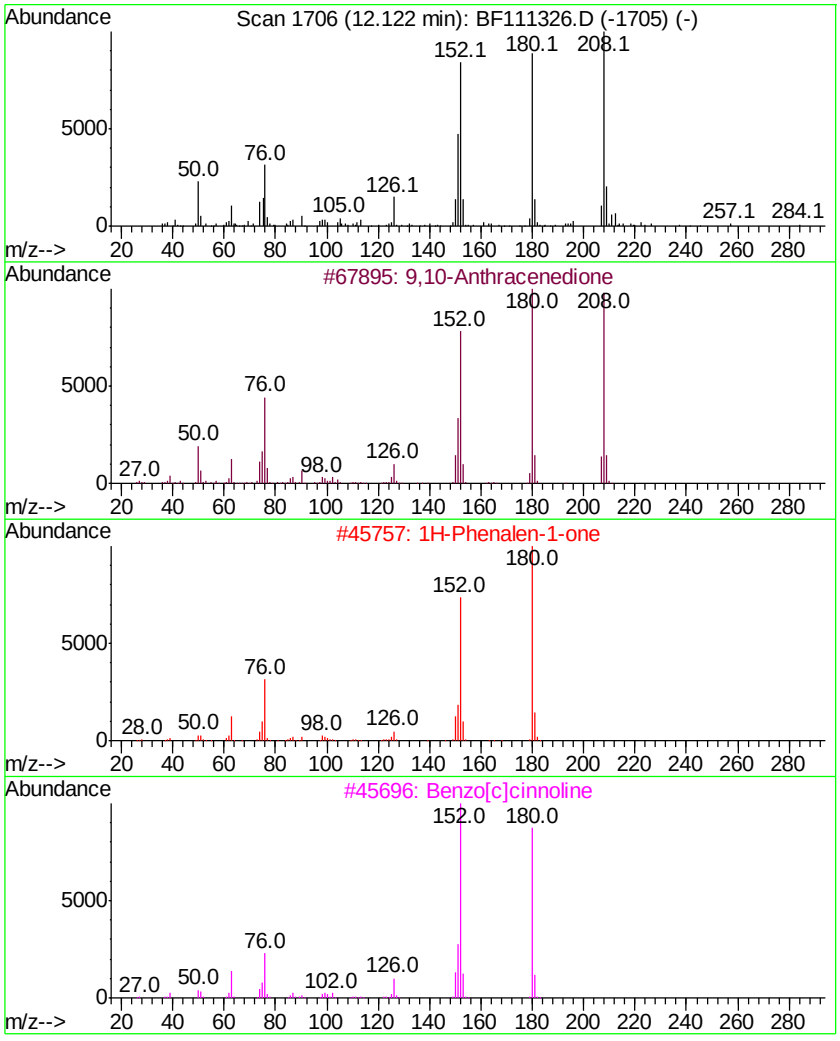
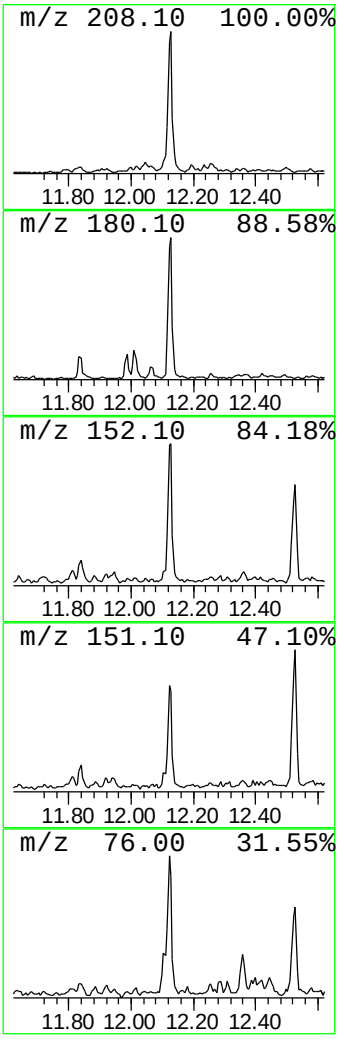
Peak Number 11 9,10-Anthracenedione Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	2.87 ng	293252	Phenanthrene-d10	11.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
2	1H-Phenalen-1-one	180	C13H8O	000548-39-0	92
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	90
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	60
5	1,4-Anthracenedione	208	C14H8O2	000635-12-1	58





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Misc :
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Instrument : BNA_F
ClientSampleId : SB-5(0-2)

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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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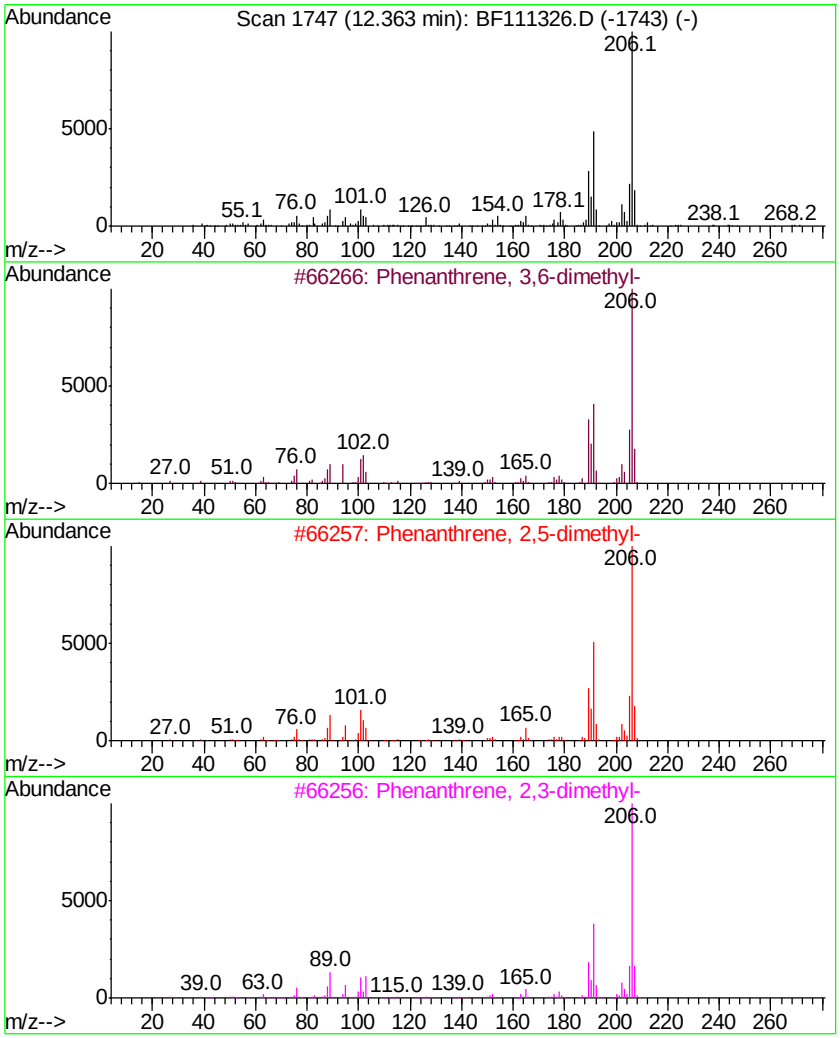
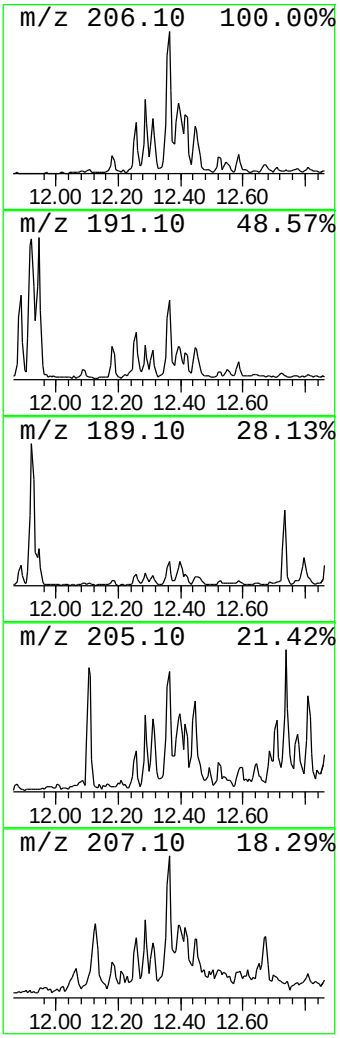
Peak Number 12 Phenanthrene, 3,6-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.36	3.73 ng	381137	Phenanthrene-d10	11.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	89





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Sample : J6214-41
Misc :
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Instrument : BNA_F
ClientSampleId : SB-5(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.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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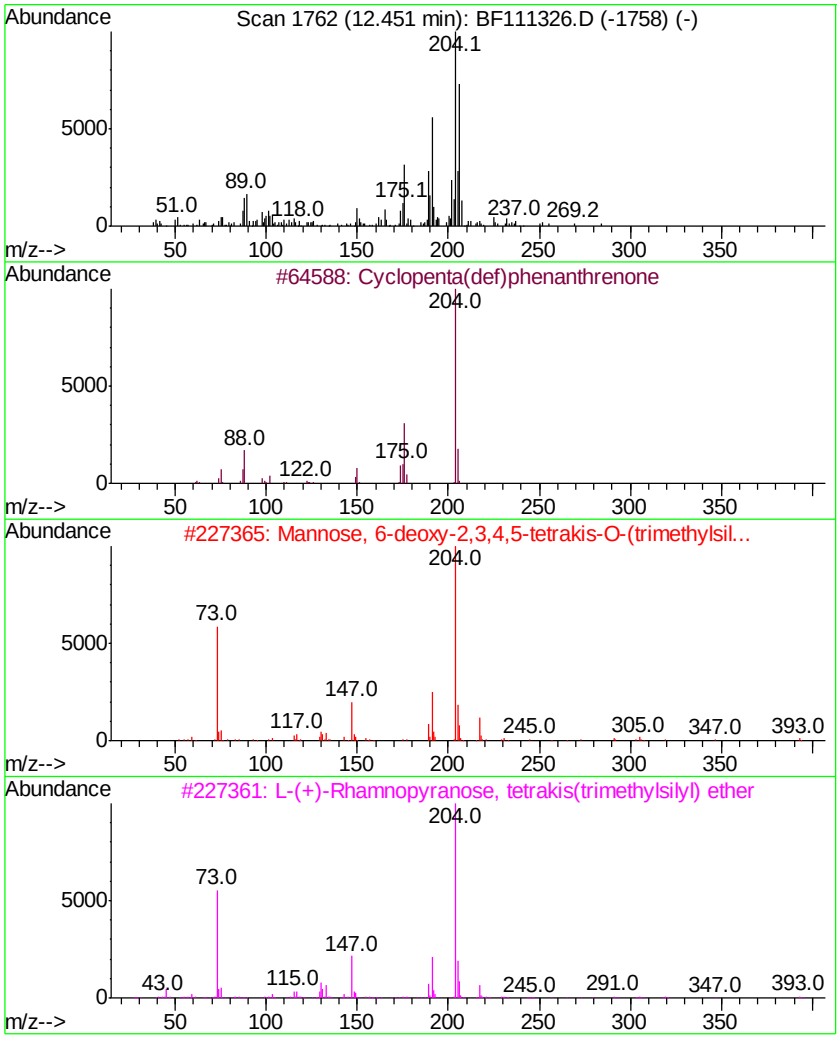
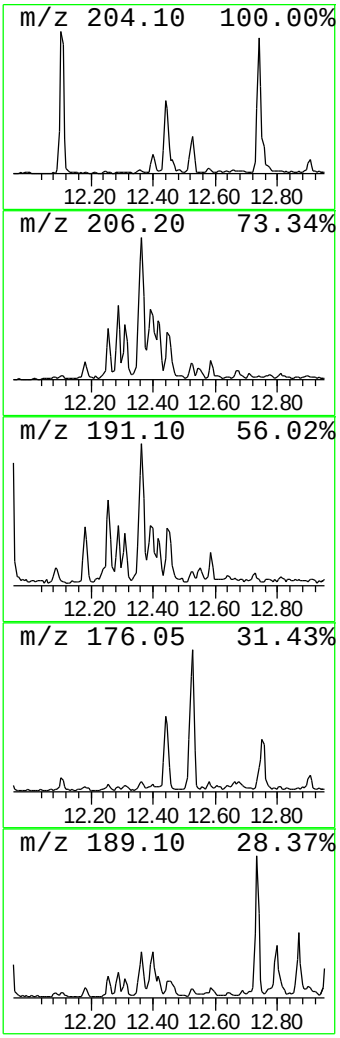
Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.45	3.28 ng	335373	Phenanthrene-d10	11.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	94
2	Mannose, 6-deoxy-2,3,4,5-tetraki...	452	C18H44O5Si4	019127-15-2	50
3	L-(+)-Rhamnopyranose, tetrakis(t...	452	C18H44O5Si4	1000380-12-9	50
4	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	49
5	[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	43





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ClientSampleId : SB-5(0-2)

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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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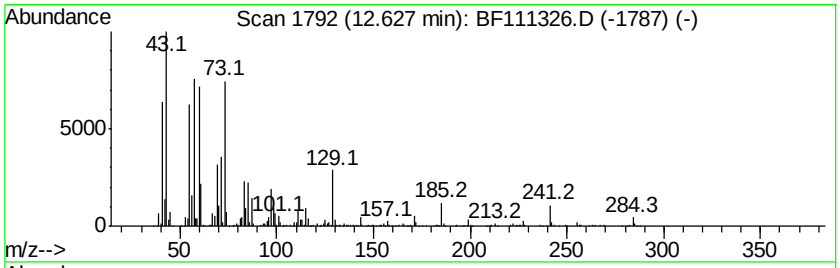
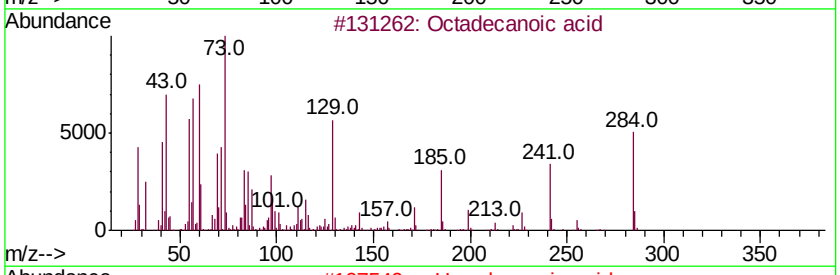
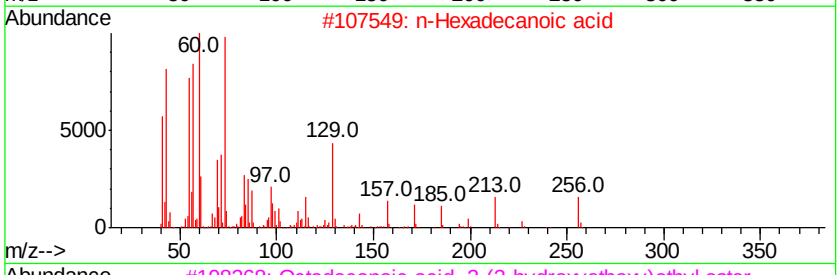
Peak Number 14 Octadecanoic acid Concentration Rank 7

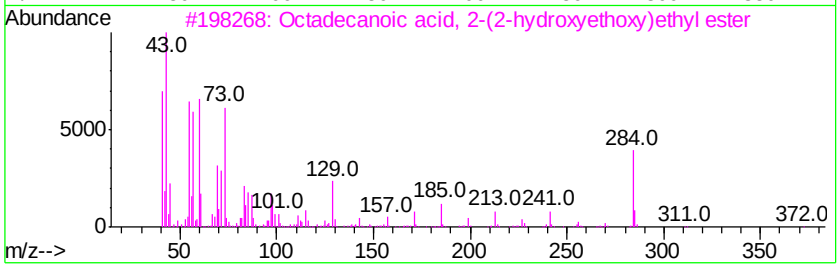
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.63	7.65 ng	1923650	Chrysene-d12	13.95

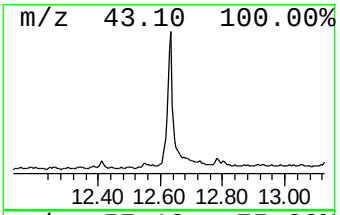
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	91
3	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	91
4	n-Decanoic acid	172	C10H20O2	000334-48-5	90
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	81

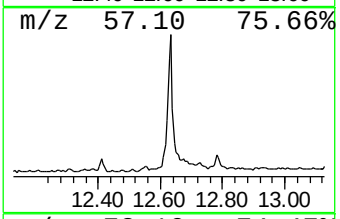


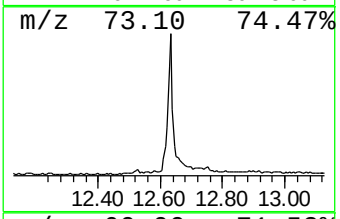


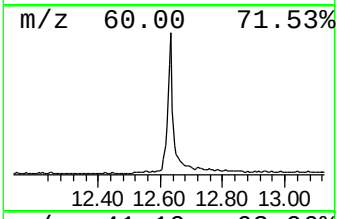


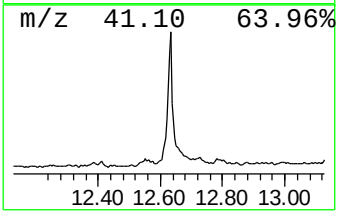












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Sample : J6214-41
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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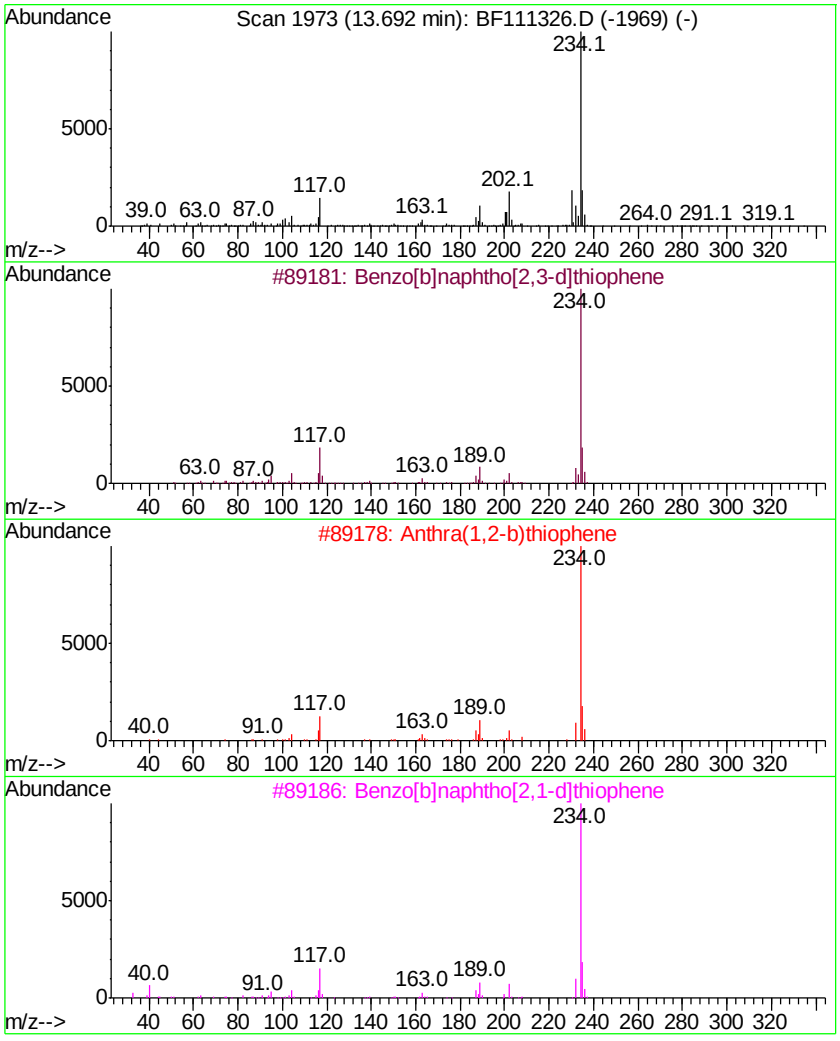
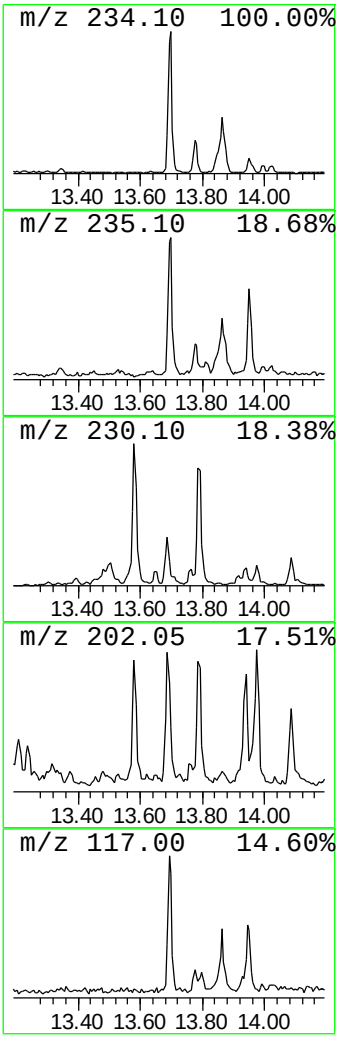
Peak Number 15 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.69	2.50 ng	629852	Chrysene-d12	13.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	91
2	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	91
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	91
4	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	90
5	Anthra(2,3-b)thiophene	234	C16H10S	022108-55-0	80





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Instrument : BNA_F
ClientSampleId : SB-5(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.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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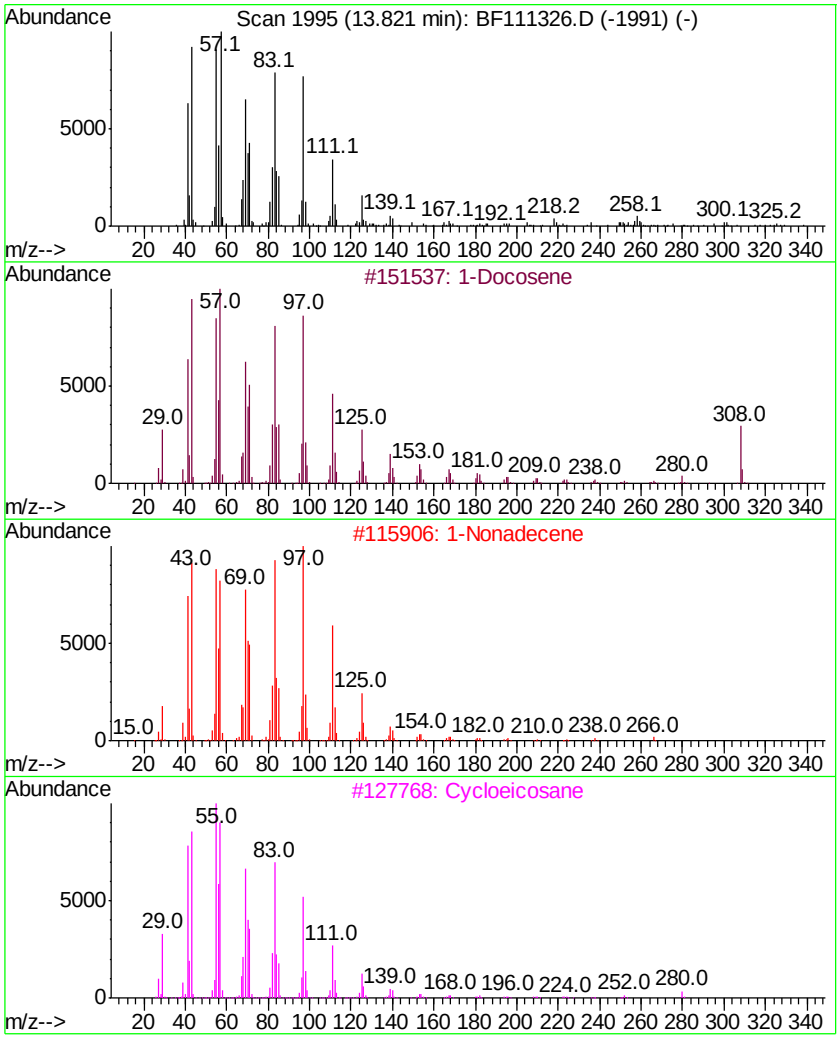
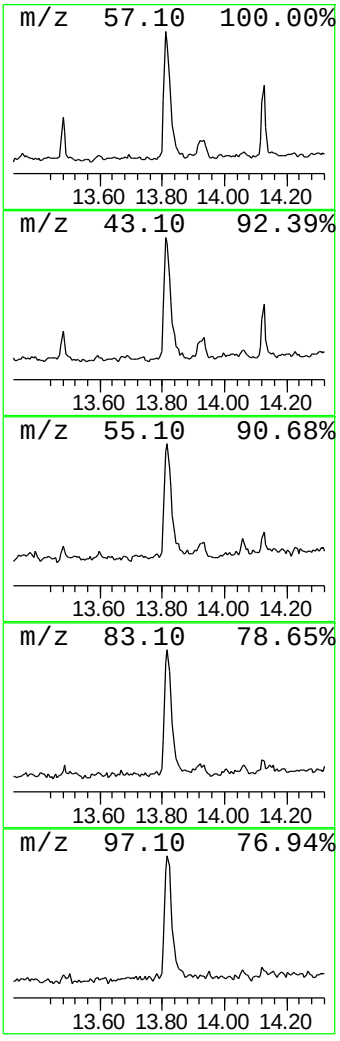
Peak Number 16 1-Docosene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.82	2.85 ng	717836	Chrysene-d12	13.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Docosene	308	C22H44	001599-67-3	97
2	1-Nonadecene	266	C19H38	018435-45-5	97
3	Cycloeicosane	280	C20H40	000296-56-0	96
4	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	91
5	Pentafluoropropionic acid, hexad...	388	C19H33F5O2	006222-07-7	91





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111326.D
Acq On : 12 Dec 2018 17:26
Operator : JU/SJ
Sample : J6214-41
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.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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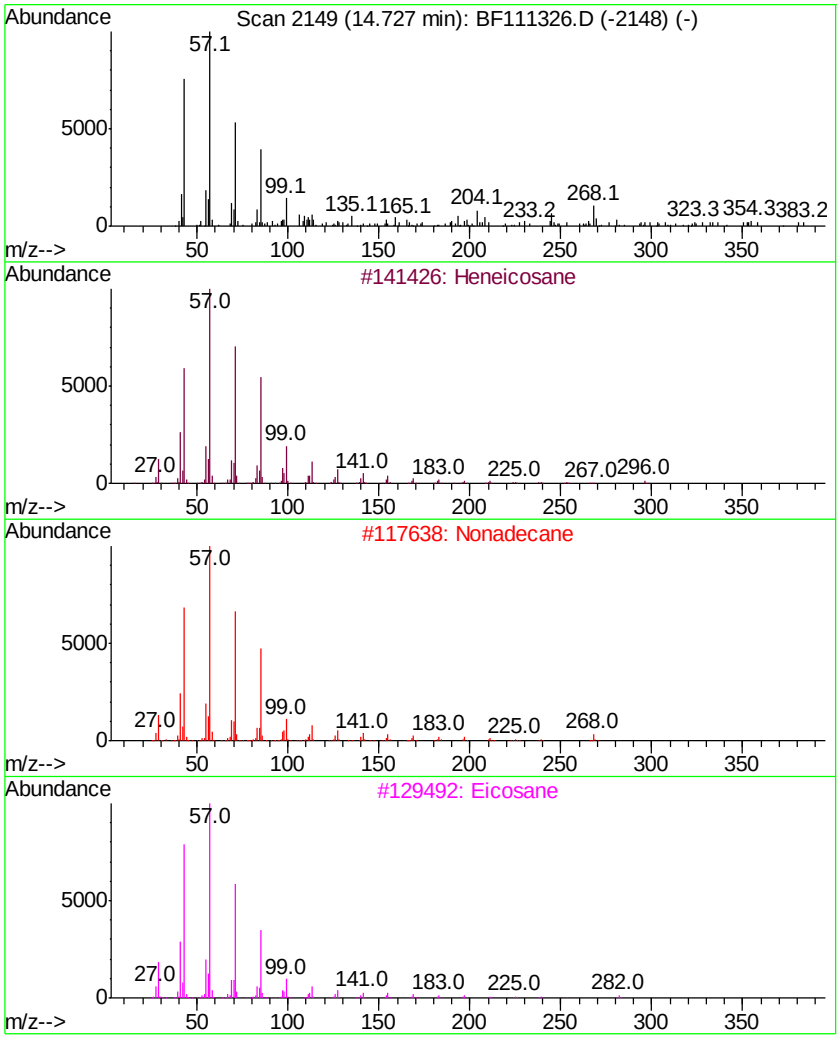
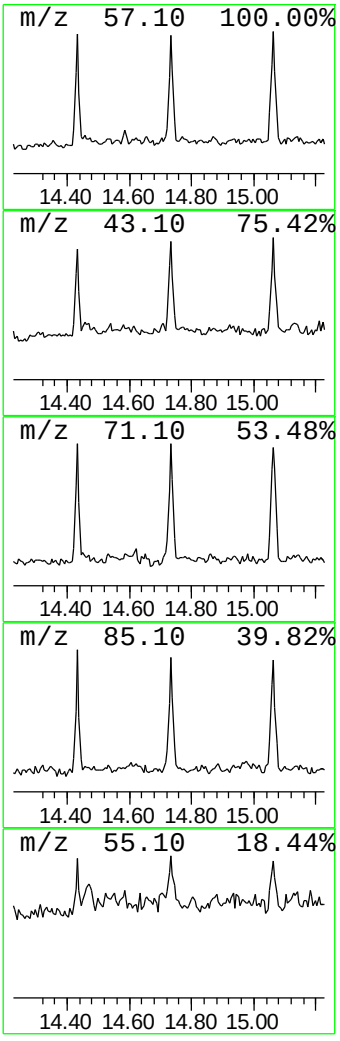
Peak Number 17 Heneicosane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.73	5.14 ng	319367	Perylene-d12	15.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	93
2	Nonadecane	268	C19H40	000629-92-5	93
3	Eicosane	282	C20H42	000112-95-8	91
4	Heptacosane	380	C27H56	000593-49-7	83
5	Heptadecane	240	C17H36	000629-78-7	83





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Data File : BF111326.D
Acq On : 12 Dec 2018 17:26
Operator : JU/SJ
Sample : J6214-41
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.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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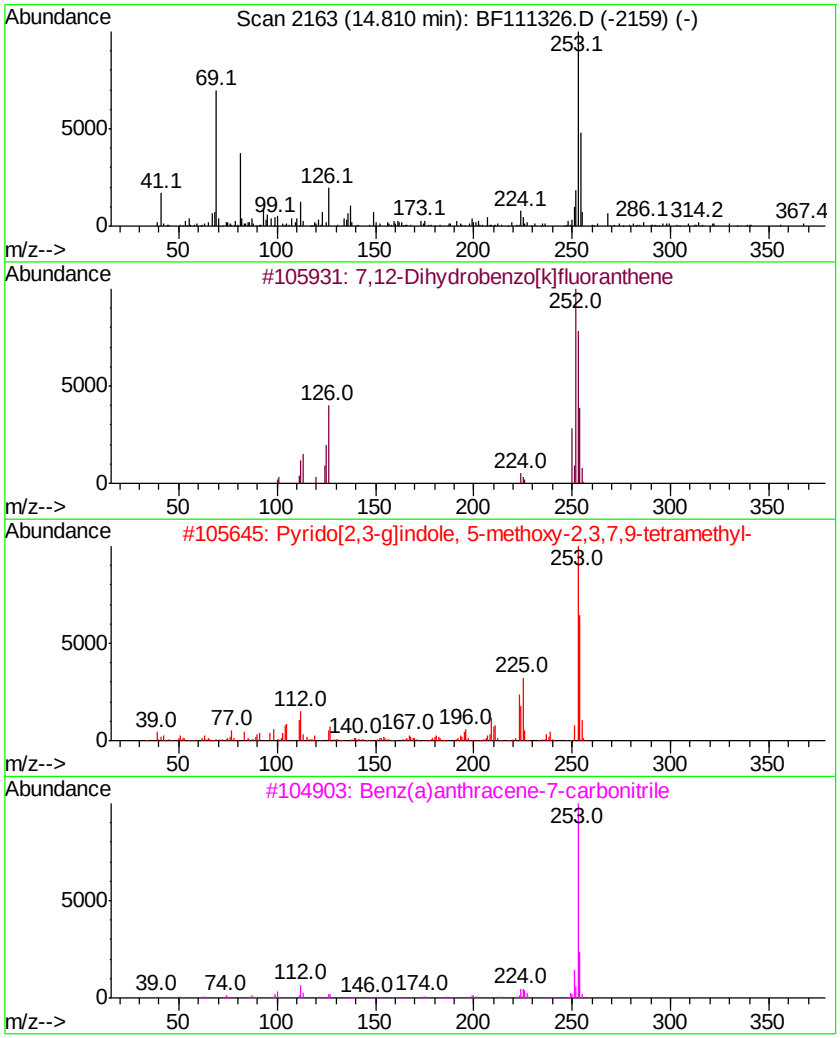
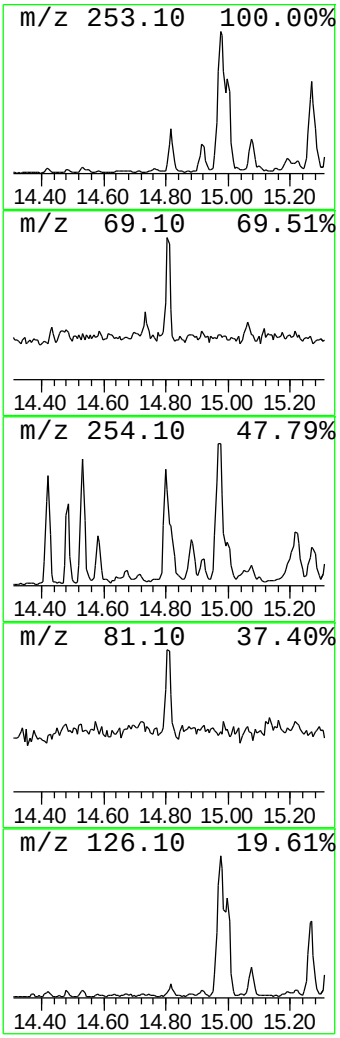
Peak Number 18 7,12-Dihydrobenzo[k]fluoran... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.81	6.04 ng	375239	Perylene-d12	15.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7,12-Dihydrobenzo[k]fluoranthene	254	C20H14	1000080-17-7	59
2	Pyrido[2,3-g]indole, 5-methoxy-2...	254	C16H18N2O	201991-45-9	53
3	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	49
4	Benzofuran-5,6-diol-3-one, 2-ben...	254	C15H10O4	1000128-65-2	47
5	Imidazole, 2-iodo-5-methyl-4-nitro-	253	C4H4IN3O2	149510-86-1	46





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111326.D
Acq On : 12 Dec 2018 17:26
Operator : JU/SJ
Sample : J6214-41
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.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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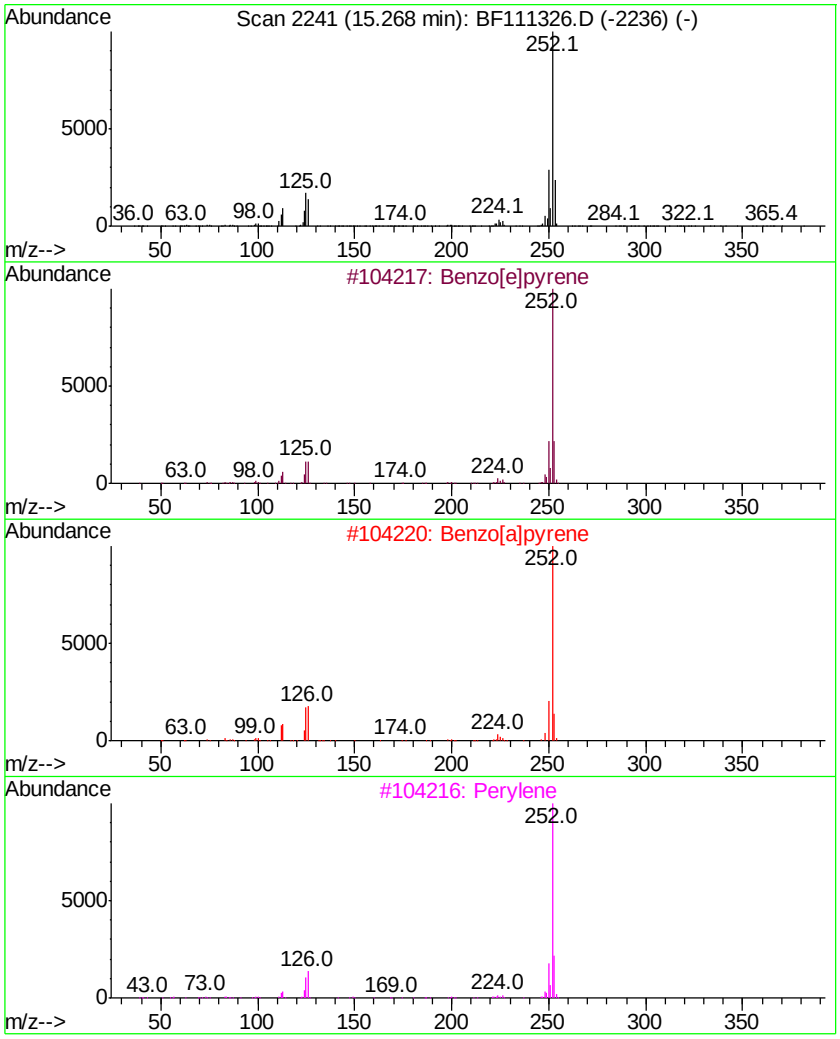
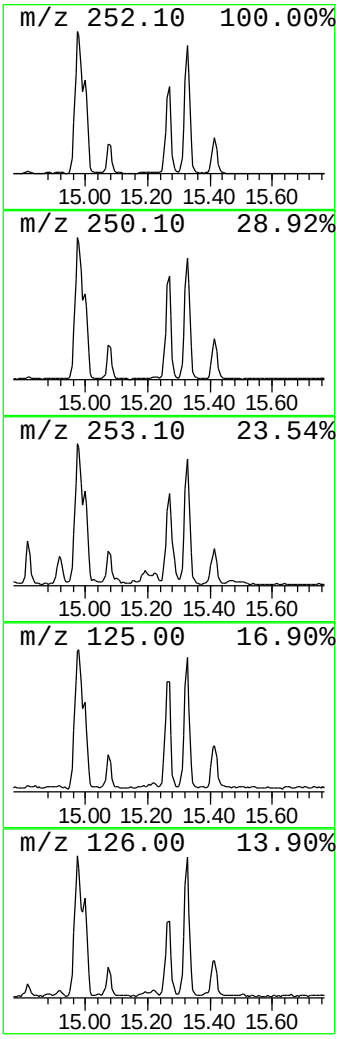
Peak Number 20 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.27	28.22 ng	1752600	Perylene-d12	15.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benzo[a]pyrene	252	C20H12	000050-32-8	95
3	Perylene	252	C20H12	000198-55-0	91
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	89





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF121218\
Data File : BF111326.D
Acq On : 12 Dec 2018 17:26
Operator : JU/SJ
Sample : J6214-41
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.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...	5.00	4.6	ng	400394	1	6.79	1744780	20.0
unknown6.56	6.56	86.1	ng	7509140	1	6.79	1744780	20.0
Dibenzothiophene	11.20	2.7	ng	277103	4	11.31	2044310	20.0
Anthracene, 2-met...	11.81	4.7	ng	483700	4	11.31	2044310	20.0
Phenanthrene, 2-m...	11.84	14.5	ng	1482330	4	11.31	2044310	20.0
Phenanthrene, 1-m...	11.89	3.0	ng	311955	4	11.31	2044310	20.0
4H-Cyclopenta[def...	11.92	7.8	ng	801726	4	11.31	2044310	20.0
Anthracene, 9-met...	11.95	3.1	ng	318466	4	11.31	2044310	20.0
Naphthalene, 1-ph...	12.10	3.8	ng	391030	4	11.31	2044310	20.0
9,10-Anthracenedione	12.12	2.9	ng	293252	4	11.31	2044310	20.0
Phenanthrene, 3,6...	12.36	3.7	ng	381137	4	11.31	2044310	20.0
Cyclopenta(def)ph...	12.45	3.3	ng	335373	4	11.31	2044310	20.0
Octadecanoic acid	12.63	7.7	ng	1923650	5	13.95	5030560	20.0
Benzo[b]naphtho[2...	13.69	2.5	ng	629852	5	13.95	5030560	20.0
1-Docosene	13.82	2.9	ng	717836	5	13.95	5030560	20.0
Heneicosane	14.73	5.1	ng	319367	6	15.39	1241880	20.0
7,12-Dihydrobenzo...	14.81	6.0	ng	375239	6	15.39	1241880	20.0
Benzo[e]pyrene	15.27	28.2	ng	1752600	6	15.39	1241880	20.0