LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\
Data File : BF107299.D
Acq On : 11 Jul 2018 14:52
Operator : JU/SJ
Sample : J3933-10 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-10-E1

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-BF061918.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	5.149	475	478	489	rVB	37227	37792	3.51%	0.303%
2	5.572	547	550	565	rBV	261805	284185	26.43%	2.280%
3	6.578	717	721	740	rBV	255183	297414	27.66%	2.386%
4	6.707	740	743	750	rBV	358974	307915	28.64%	2.471%
5	6.931	777	781	788	rBV	393292	332582	30.93%	2.669%
6	7.084	803	807	817	rBB	294715	240556	22.37%	1.930%
7	7.495	873	877	892	rBB	189912	180137	16.75%	1.445%
8	8.213	996	999	1002	rBV	460996	412847	38.40%	3.313%
9	8.237	1002	1003	1021	rVB	66891	46939	4.37%	0.377%
10	8.931	1118	1121	1126	rBB	22878	19320	1.80%	0.155%
11	9.031	1135	1138	1143	rBB	20338	15925	1.48%	0.128%
12	9.289	1178	1182	1191	rVB	343823	289554	26.93%	2.323%
13	9.631	1237	1240	1243	rBV	11567	11842	1.10%	0.095%
14	9.684	1247	1249	1255	rVB	66238	50338	4.68%	0.404%
15	9.842	1272	1276	1281	rBV	34065	32941	3.06%	0.264%
16	9.978	1296	1299	1302	rBV2	460968	382888	35.61%	3.072%
17	10.013	1302	1305	1309	rVB	48137	44971	4.18%	0.361%
18	10.184	1329	1334	1337	rBV	34136	29286	2.72%	0.235%
19	10.531	1389	1393	1398	rVB	37078	32020	2.98%	0.257%
20	10.778	1430	1435	1440	rBV2	161890	149359	13.89%	1.198%
21	11.078	1480	1486	1488	rBV3	10607	14363	1.34%	0.115%
22	11.283	1516	1521	1524	rVV	30952	24752	2.30%	0.199%
23	11.372	1533	1536	1539	rVB	21985	16825	1.56%	0.135%
24	11.478	1550	1554	1556	rBV	401405	364957	33.94%	2.928%
25	11.501	1556	1558	1561	rVV	467824	354228	32.95%	2.842%
26	11.554	1561	1567	1571	rVV	87117	77758	7.23%	0.624%
27	11.713	1588	1594	1601	rBV3	40268	47090	4.38%	0.378%
28	11.813	1607	1611	1615	rVB3	10509	13099	1.22%	0.105%
29	11.889	1615	1624	1630	rVB5	6984	16694	1.55%	0.134%
30	11.977	1635	1639	1642	rVV	73319	64518	6.00%	0.518%
31	12.007	1642	1644	1647	rVV	94417	74289	6.91%	0.596%
32	12.054	1649	1652	1655	rVV	31404	26394	2.45%	0.212%
33	12.095	1655	1659	1661	rVV2	88355	109136	10.15%	0.876%
34	12.113	1661	1662	1666	rVB	54738	36365	3.38%	0.292%

LSC Area Percent Report

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Operator : JU/SJ
Sample : J3933-10 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-10-E1

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-BF061918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.272	1686	1689	1693	rBV	50884	40997	3.81%	0.329%
36	12.313	1693	1696	1699	rVB	43848	35985	3.35%	0.289%
37	12.425	1710	1715	1718	rBV4	22413	26777	2.49%	0.215%
38	12.454	1718	1720	1722	rVB	22174	14723	1.37%	0.118%
39	12.477	1722	1724	1727	rVB	17265	14323	1.33%	0.115%
40	12.530	1729	1733	1736	rBV	59082	63919	5.94%	0.513%
41	12.572	1736	1740	1741	rVV2	30445	34195	3.18%	0.274%
42	12.589	1741	1743	1745	rVB	20573	15337	1.43%	0.123%
43	12.625	1745	1749	1753	rBV2	45386	57707	5.37%	0.463%
44	12.701	1757	1762	1765	rBV	763721	662789	61.64%	5.318%
45	12.760	1770	1772	1775	rVB2	24091	20554	1.91%	0.165%
46	12.795	1775	1778	1780	rBV	24323	20603	1.92%	0.165%
47	12.848	1783	1787	1790	rBV3	28881	40921	3.81%	0.328%
48	12.872	1790	1791	1794	rVB3	15918	11677	1.09%	0.094%
49	12.913	1794	1798	1799	rBV2	112623	124196	11.55%	0.997%
50	12.936	1799	1802	1805	rVV	642100	607390	56.49%	4.874%
51	12.977	1807	1809	1814	rVB2	44201	42255	3.93%	0.339%
52	13.060	1816	1823	1826	rBV2	321922	297688	27.69%	2.389%
53	13.095	1826	1829	1833	rVB	45749	49888	4.64%	0.400%
54	13.154	1833	1839	1843	rBV2	63515	111936	10.41%	0.898%
55	13.242	1850	1854	1855	rBV3	51706	67700	6.30%	0.543%
56	13.260	1855	1857	1861	rVB	87790	93682	8.71%	0.752%
57	13.330	1866	1869	1871	rBV	44073	36544	3.40%	0.293%
58	13.372	1871	1876	1879	rBV2	76397	92024	8.56%	0.738%
59	13.424	1883	1885	1888	rBV2	19135	18388	1.71%	0.148%
60	13.466	1889	1892	1895	rBV	52764	50740	4.72%	0.407%
61	13.501	1895	1898	1901	rVV	58396	49905	4.64%	0.400%
62	13.566	1907	1909	1911	rBV	13335	14823	1.38%	0.119%
63	13.589	1911	1913	1916	rVB2	16089	13242	1.23%	0.106%
64	13.648	1921	1923	1925	rBV3	15143	15403	1.43%	0.124%
65	13.672	1925	1927	1929	rBV3	16763	15467	1.44%	0.124%
66	13.701	1929	1932	1934	rVB	23115	20272	1.89%	0.163%
67	13.766	1940	1943	1945	rBV4	11959	14025	1.30%	0.113%
68	13.795	1945	1948	1952	rBV	97465	97383	9.06%	0.781%
69	13.913	1962	1968	1970	rBV	91098	115263	10.72%	0.925%
70	13.936	1970	1972	1975	rVV	89875	69719	6.48%	0.559%
71	13.971	1975	1978	1983	rVV3	79203	130926	12.18%	1.051%

LSC Area Percent Report

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Operator : JU/SJ
Sample : J3933-10 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-10-E1

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

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Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.019	1983	1986	1989	rVB	95969	86810	8.07%	0.697%
73	14.089	1993	1998	2004	rBV2	27894	63641	5.92%	0.511%
74	14.177	2005	2013	2016	rBV2	649839	1075188	100.00%	8.627%
75	14.207	2016	2018	2021	rVB	417372	342397	31.85%	2.747%
76	14.295	2030	2033	2040	rBV3	90680	166555	15.49%	1.336%
77	14.389	2047	2049	2051	rBV2	18218	12288	1.14%	0.099%
78	14.430	2051	2056	2058	rBV2	51972	75849	7.05%	0.609%
79	14.560	2075	2078	2080	rBV2	27002	24182	2.25%	0.194%
80	14.601	2080	2085	2088	rBV	108027	115709	10.76%	0.928%
81	14.636	2088	2091	2093	rBV	40373	40114	3.73%	0.322%
82	14.707	2101	2103	2106	rBV2	28747	40362	3.75%	0.324%
83	14.742	2106	2109	2111	rBV2	77863	89336	8.31%	0.717%
84	14.954	2143	2145	2148	rBV2	32735	30765	2.86%	0.247%
85	15.148	2174	2178	2181	rBV2	60236	73128	6.80%	0.587%
86	15.318	2202	2207	2210	rBV	392763	624241	58.06%	5.009%
87	15.430	2223	2226	2231	rBV	86464	112357	10.45%	0.902%
88	15.648	2258	2263	2270	rVB	217809	306266	28.48%	2.458%
89	15.713	2270	2274	2279	rBV	318291	410922	38.22%	3.297%
90	15.783	2281	2286	2289	rBV	363809	493757	45.92%	3.962%
91	15.813	2289	2291	2298	rVB2	107238	162257	15.09%	1.302%
92	17.383	2552	2558	2564	rVB	124883	248213	23.09%	1.992%
93	17.865	2636	2640	2650	rVB2	75787	176164	16.38%	1.414%
94	18.130	2679	2685	2686	rBV6	27138	43327	4.03%	0.348%

Sum of corrected areas: 12462473

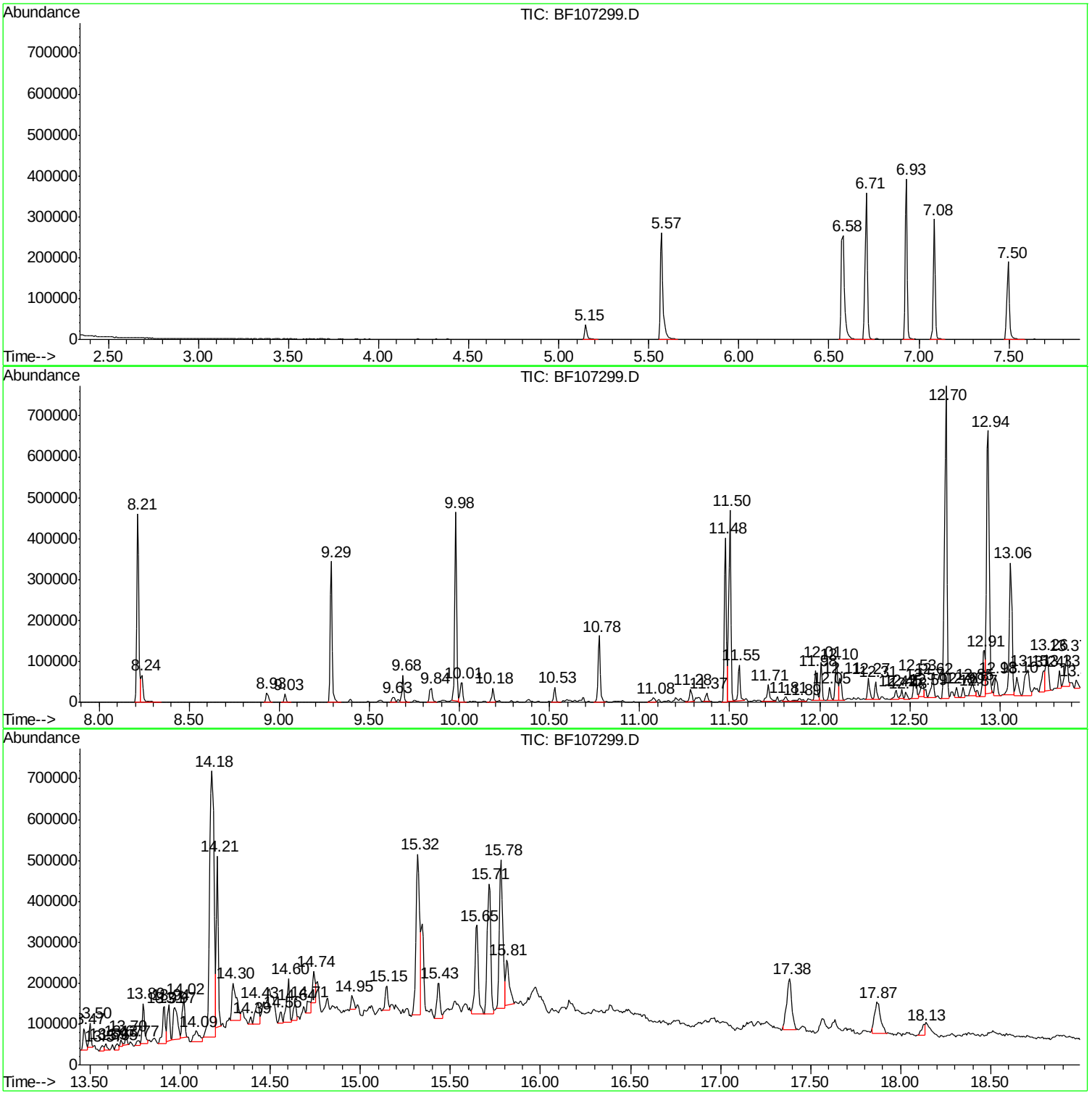
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\
Data File : BF107299.D
Acq On : 11 Jul 2018 14:52
Operator : JU/SJ
Sample : J3933-10 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-10-E1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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\BF071118\
Data File : BF107299.D
Acq On : 11 Jul 2018 14:52
Operator : JU/SJ
Sample : J3933-10 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-10-E1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

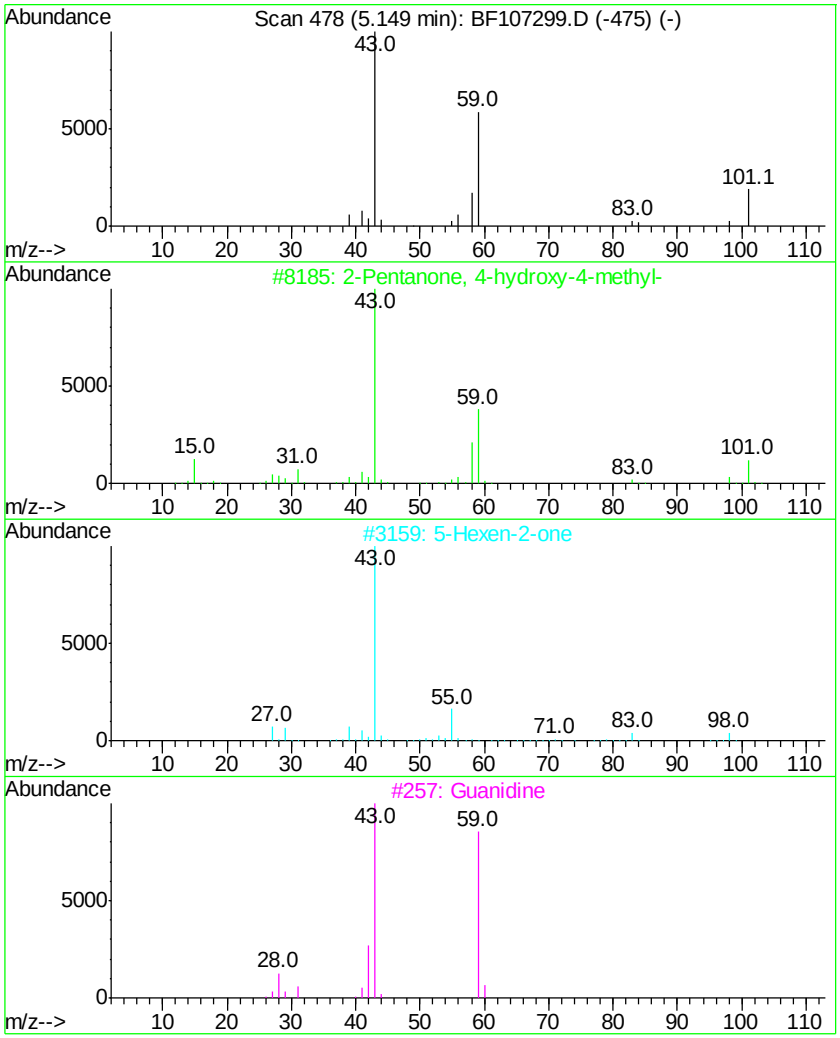
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

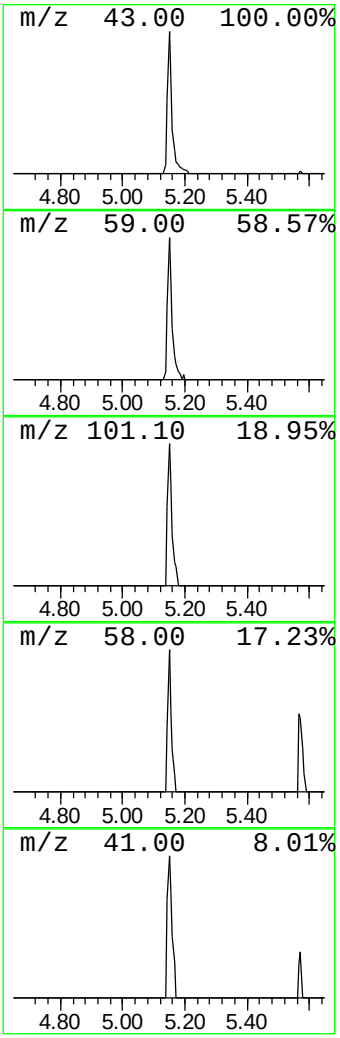
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.15	2.27 ng	37792	1,4-Dichlorobenzene-d4	6.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	5-Hexen-2-one	98	C6H10O	000109-49-9	9
3	Guanidine	59	CH5N3	000113-00-8	9
4	3-Octanol	130	C8H18O	000589-98-0	9
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\
Data File : BF107299.D
Acq On : 11 Jul 2018 14:52
Operator : JU/SJ
Sample : J3933-10 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-10-E1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

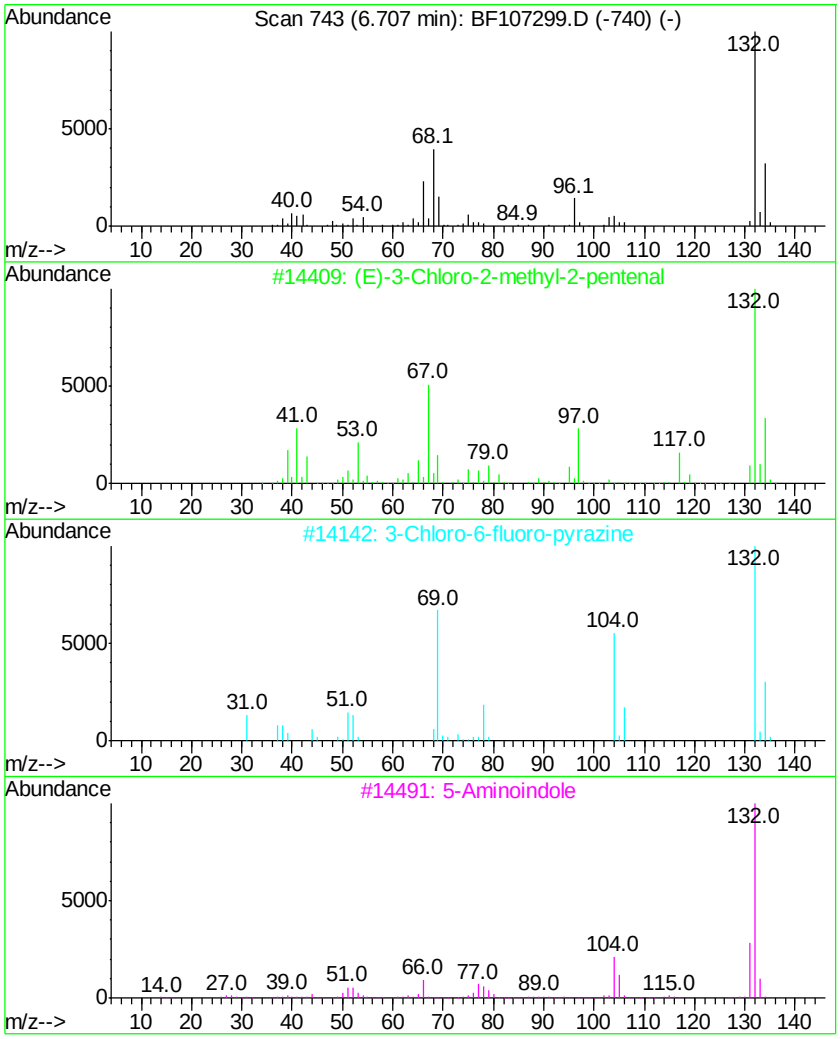
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

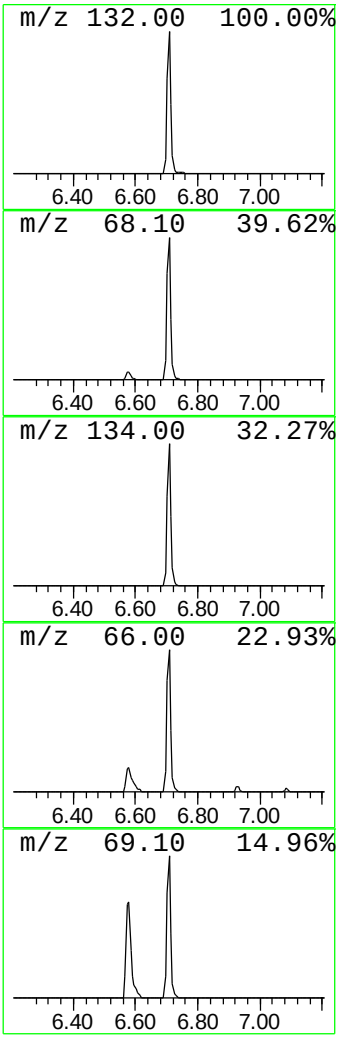
****

Peak Number 2 unknown6.71 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.71	18.52 ng	307915	1,4-Dichlorobenzene-d4	6.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	27
2	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16
3	5-Aminoindole	132	C8H8N2	005192-03-0	12
4	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9
5	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\
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Sample : J3933-10 5X
Misc :
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Instrument : BNA_F
ClientSampleId : EP-10-E1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

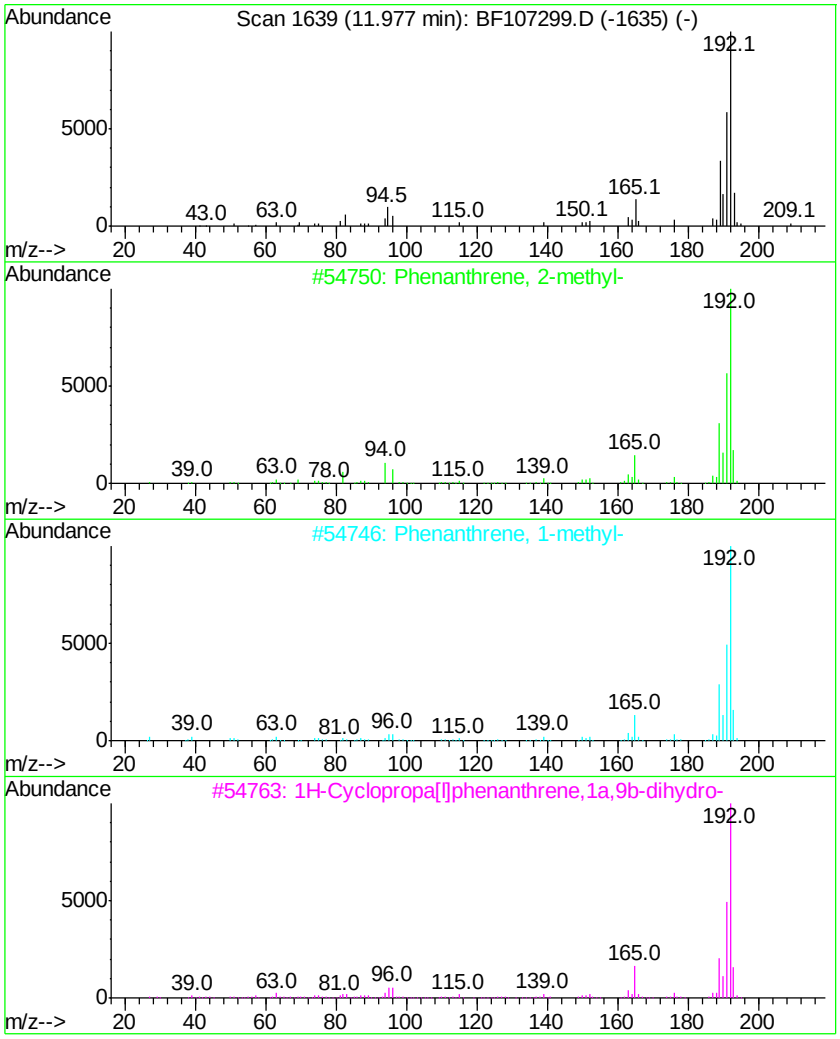
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

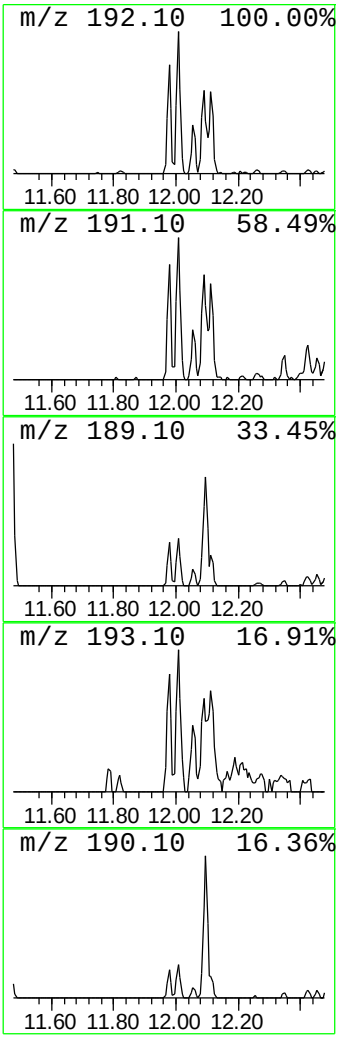
****

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	3.54 ng	64518	Phenanthrene-d10	11.48

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	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\
Data File : BF107299.D
Acq On : 11 Jul 2018 14:52
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Sample : J3933-10 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-10-E1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

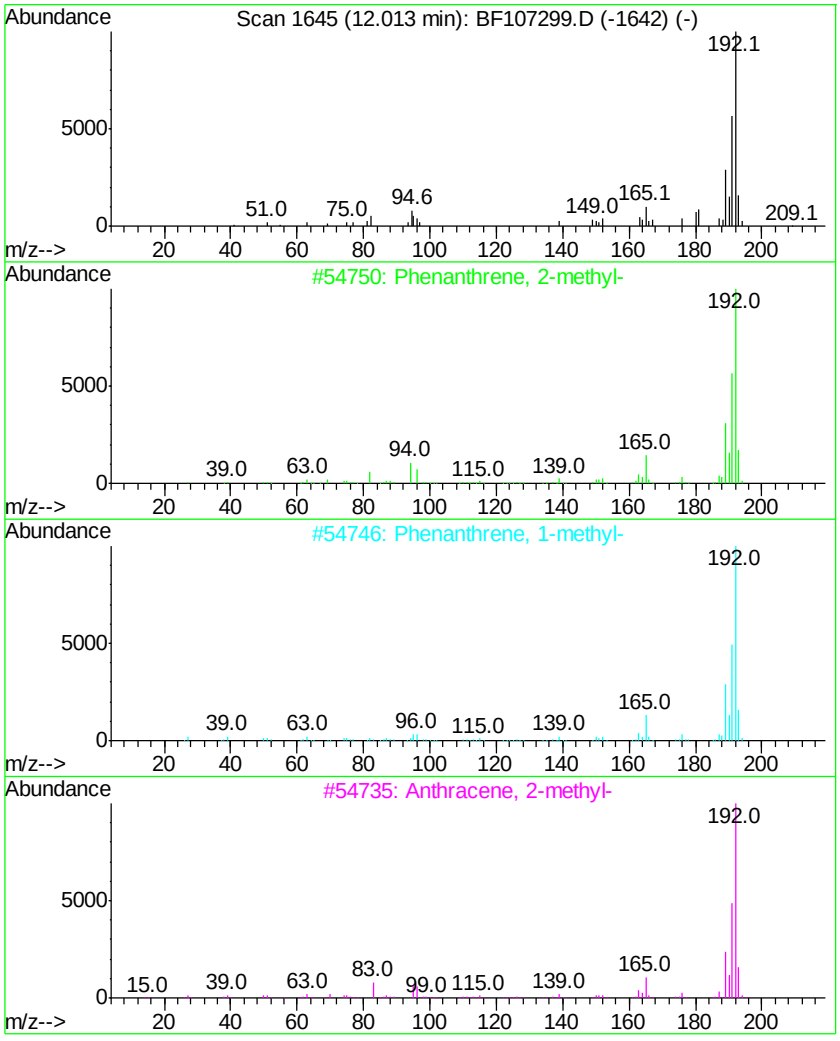
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

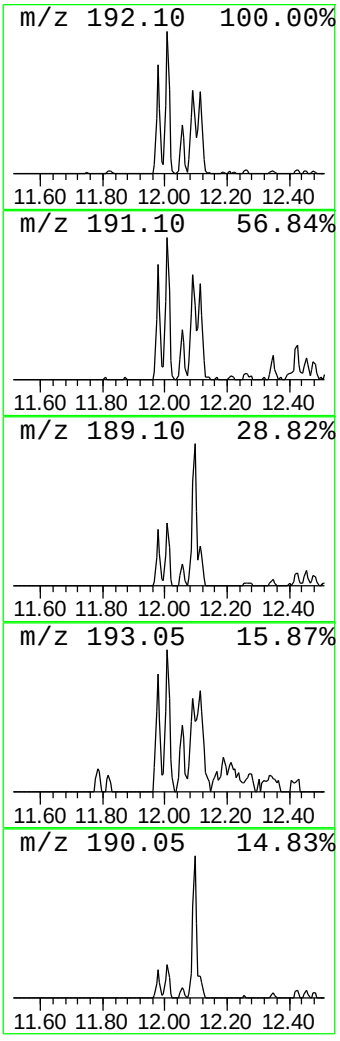
****

Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.01	4.07 ng	74289	Phenanthrene-d10	11.48

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	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93





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Data File : BF107299.D
Acq On : 11 Jul 2018 14:52
Operator : JU/SJ
Sample : J3933-10 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-10-E1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

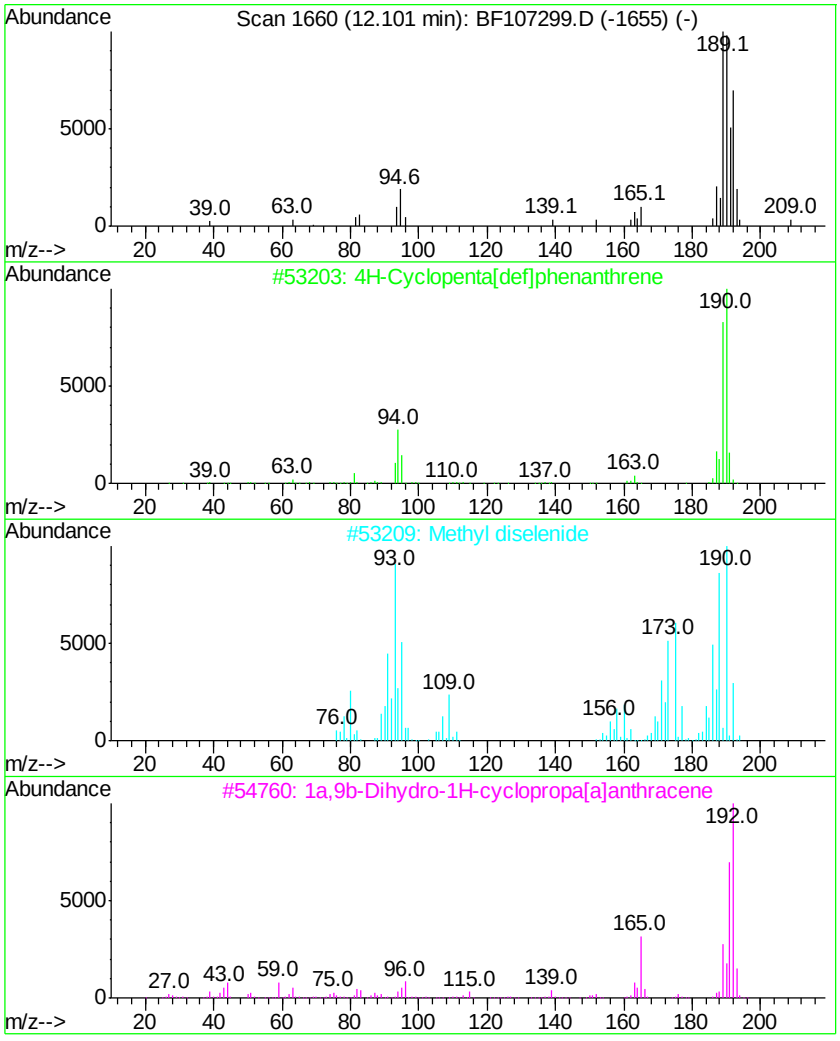
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

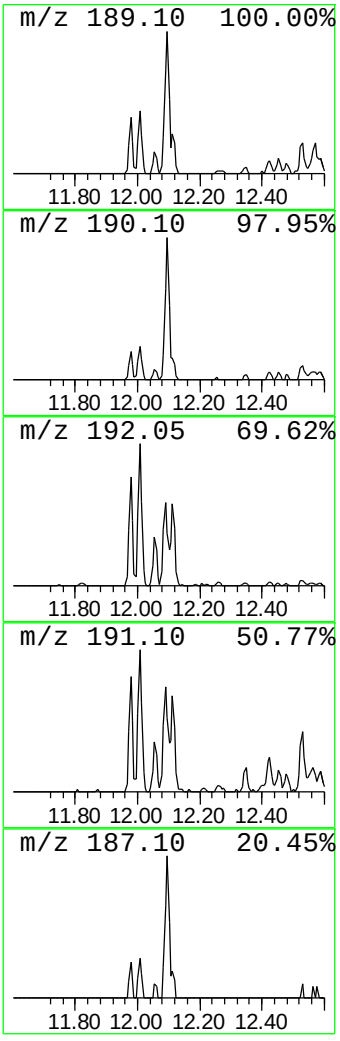
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.10	5.98 ng	109136	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	Methyl diselenide	190	C2H6Se2	007101-31-7	45
3	1a,9b-Dihydro-1H-cyclopropa[a]an...	192	C15H12	006109-24-6	18
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	18
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	18





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\
Data File : BF107299.D
Acq On : 11 Jul 2018 14:52
Operator : JU/SJ
Sample : J3933-10 5X
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Instrument : BNA_F
ClientSampleId : EP-10-E1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

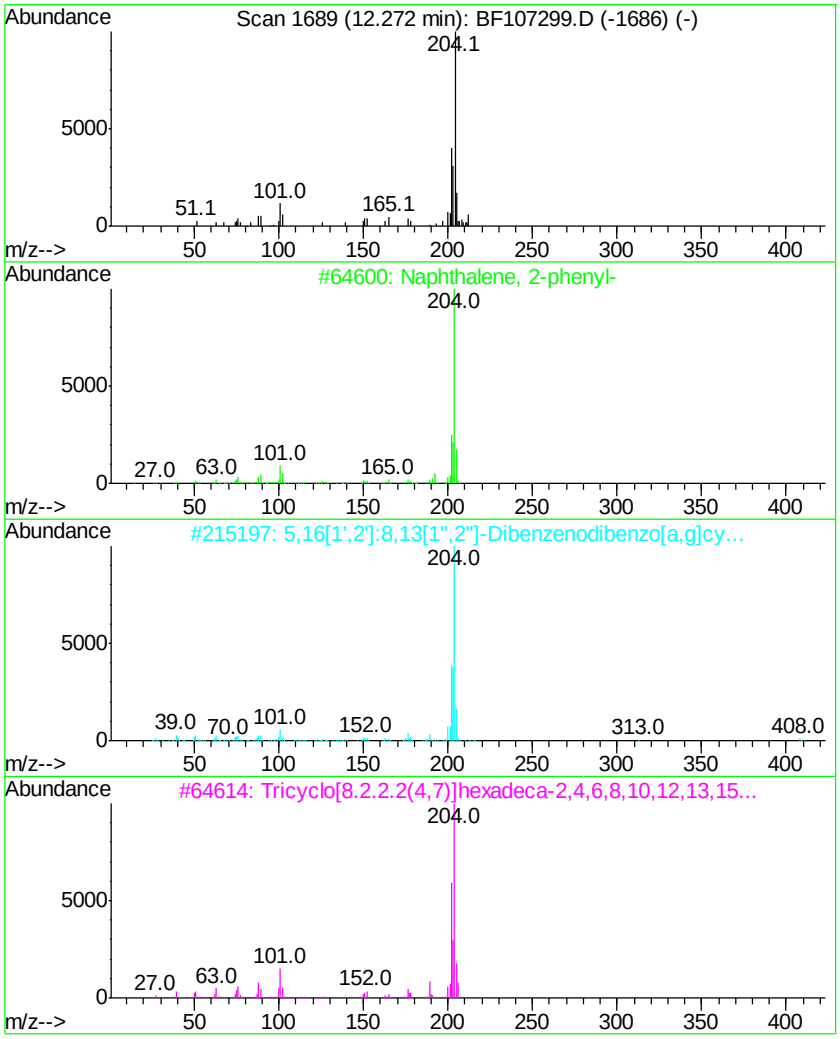
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

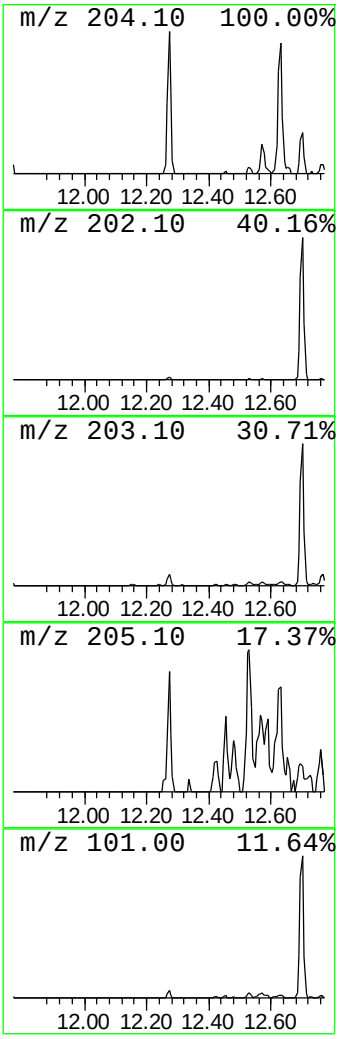
****

Peak Number 7 Naphthalene, 2-phenyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.27	2.25 ng	40997	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	92
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	70
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	62
5	[1,2,4]Triazolo[5,1-b]quinazolin...	204	C10H12N4O	1000337-56-5	49





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Data File : BF107299.D
Acq On : 11 Jul 2018 14:52
Operator : JU/SJ
Sample : J3933-10 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-10-E1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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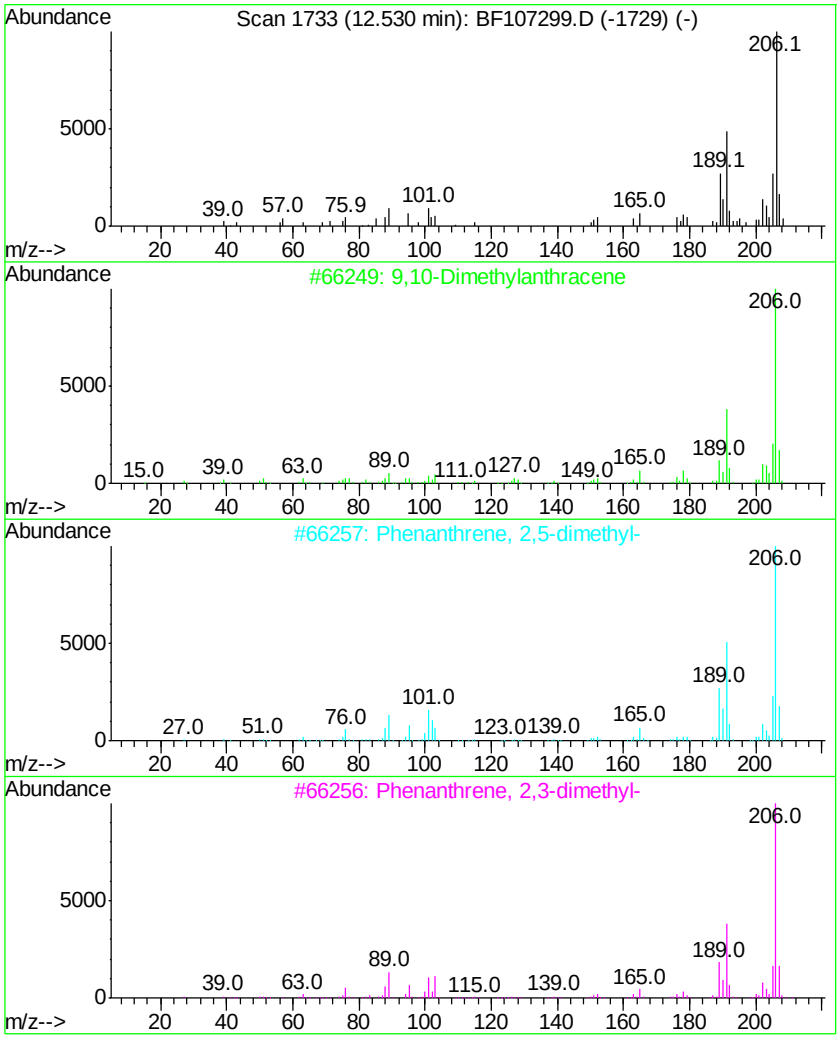
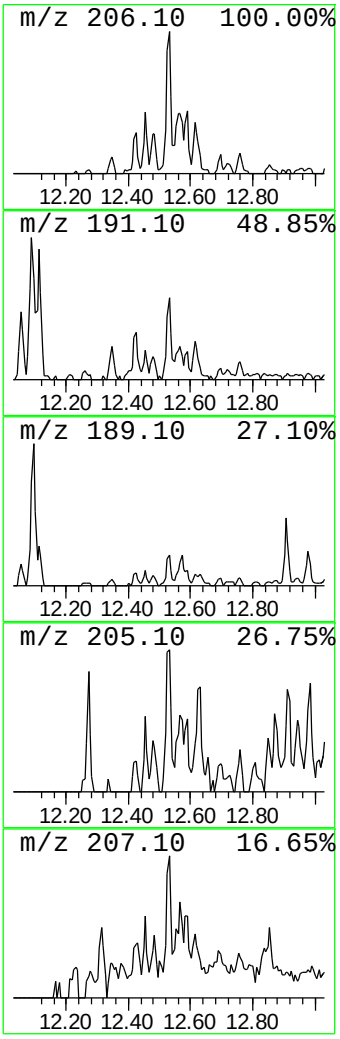
Peak Number 8 9,10-Dimethylanthracene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.53	3.50 ng	63919	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	95
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90
5	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	81





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Operator : JU/SJ
Sample : J3933-10 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-10-E1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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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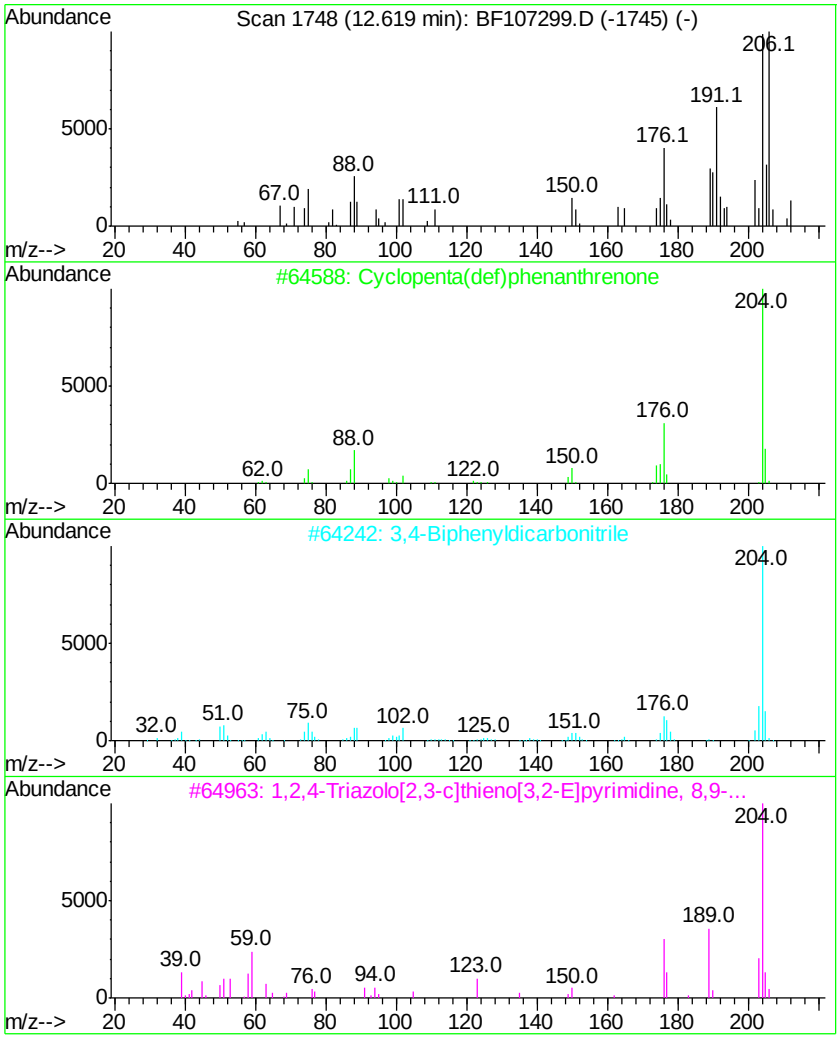
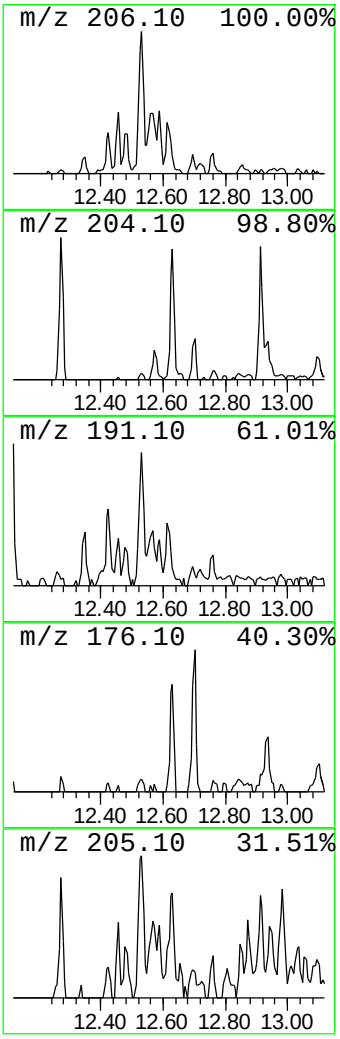
Peak Number 9 Cyclopenta(def)phenanthrenone Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.62	3.16 ng	57707	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	95
2	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	50
3	1,2,4-Triazolo[2,3-c]thieno[3,2-...	204	C9H8N4S	113246-88-1	40
4	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	38
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	38





Library Search Compound Report

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Data File : BF107299.D
Acq On : 11 Jul 2018 14:52
Operator : JU/SJ
Sample : J3933-10 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-10-E1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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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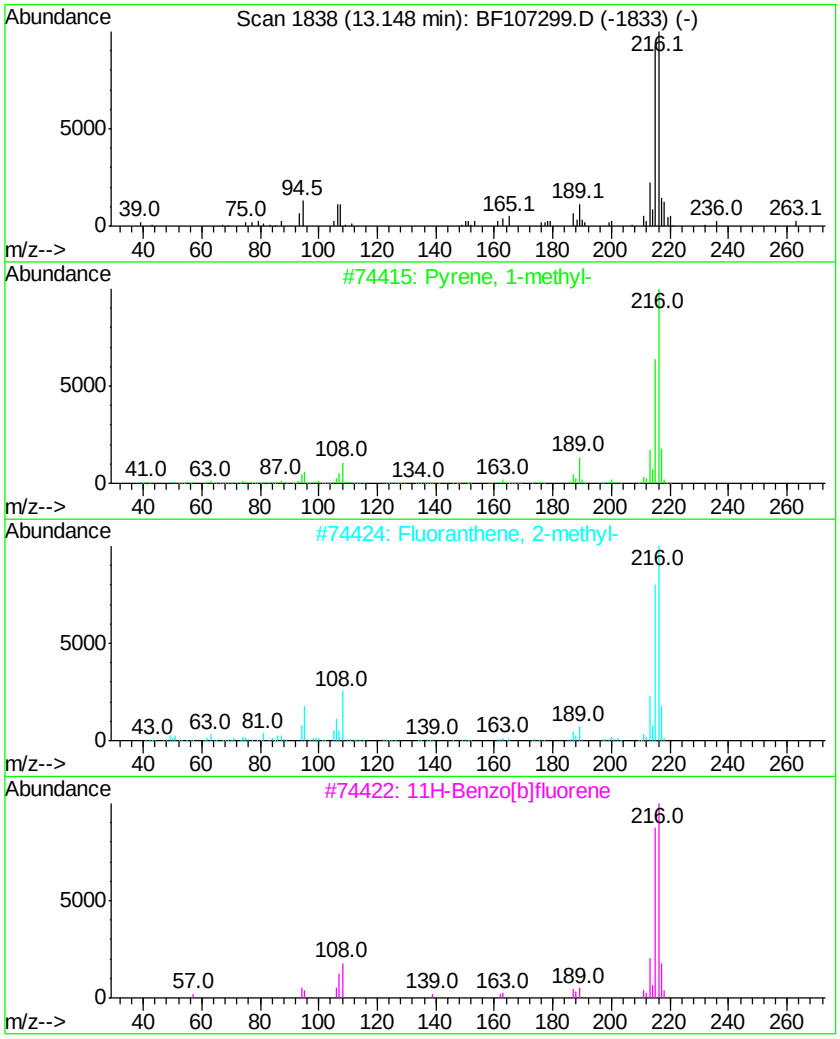
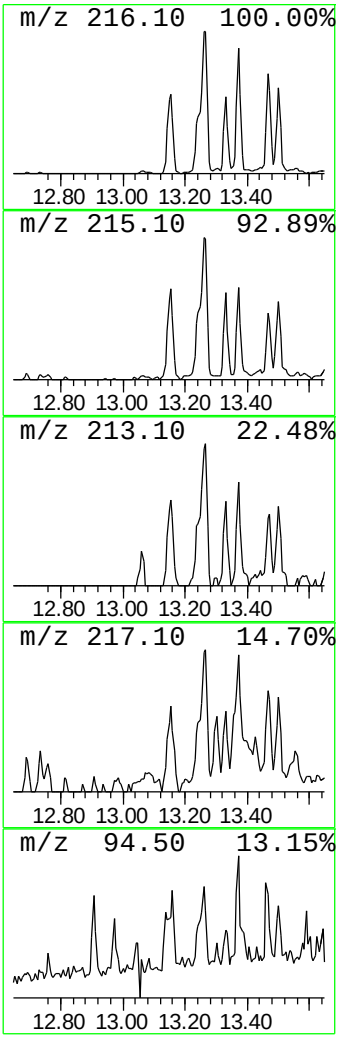
Peak Number 10 Pyrene, 1-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	2.08 ng	111936	Chrysene-d12	14.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	86
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81





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Acq On : 11 Jul 2018 14:52
Operator : JU/SJ
Sample : J3933-10 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-10-E1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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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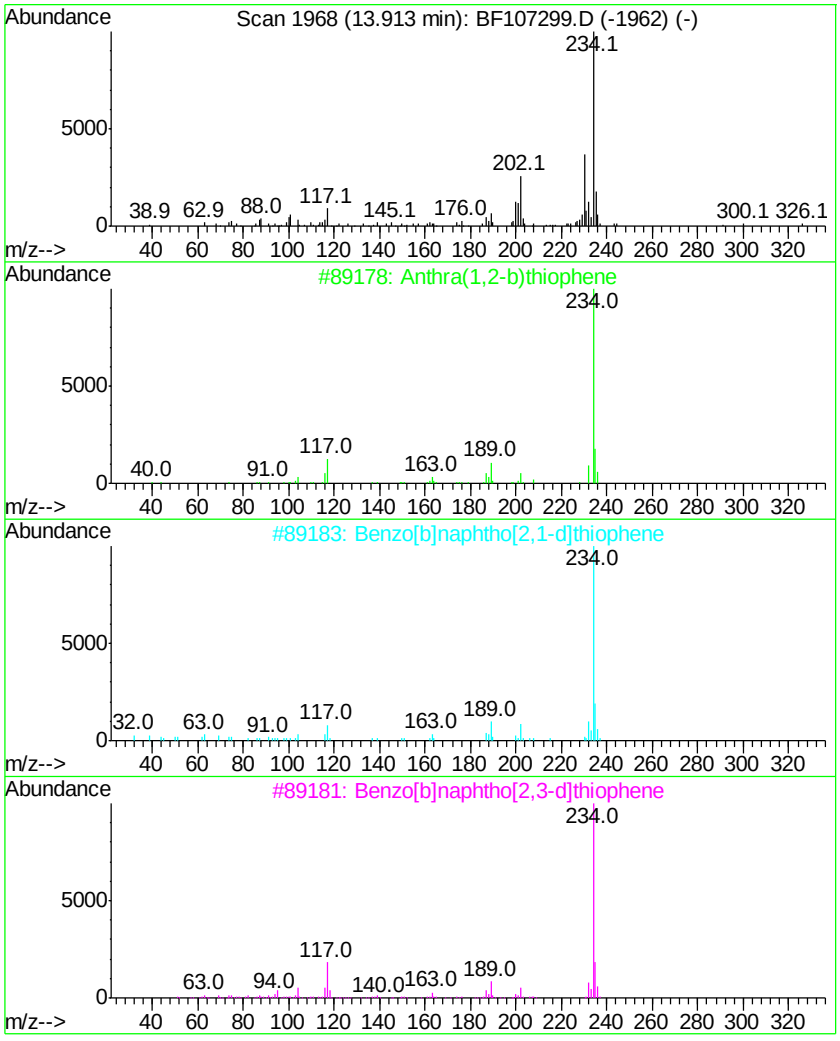
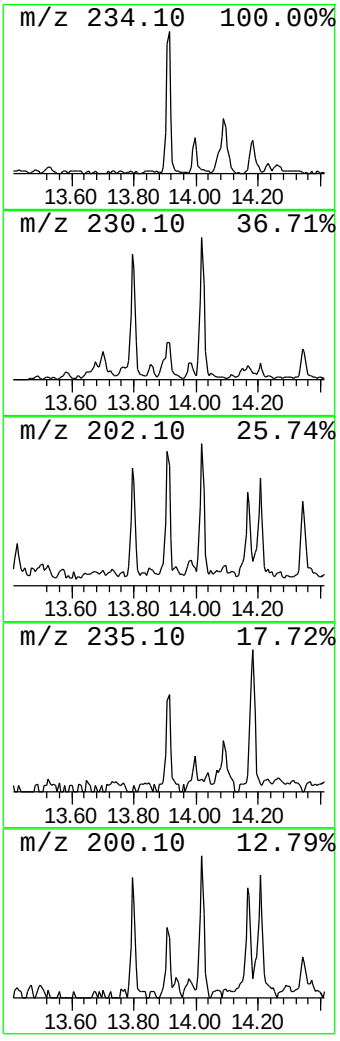
Peak Number 11 Anthra(1,2-b)thiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.91	2.14 ng	115263	Chrysene-d12	14.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	83
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	70
3	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	62
4	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	60
5	Quinoxaline, 2-(3,4-dimethylphen...	234	C16H14N2	1000266-28-1	43





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Acq On : 11 Jul 2018 14:52
Operator : JU/SJ
Sample : J3933-10 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-10-E1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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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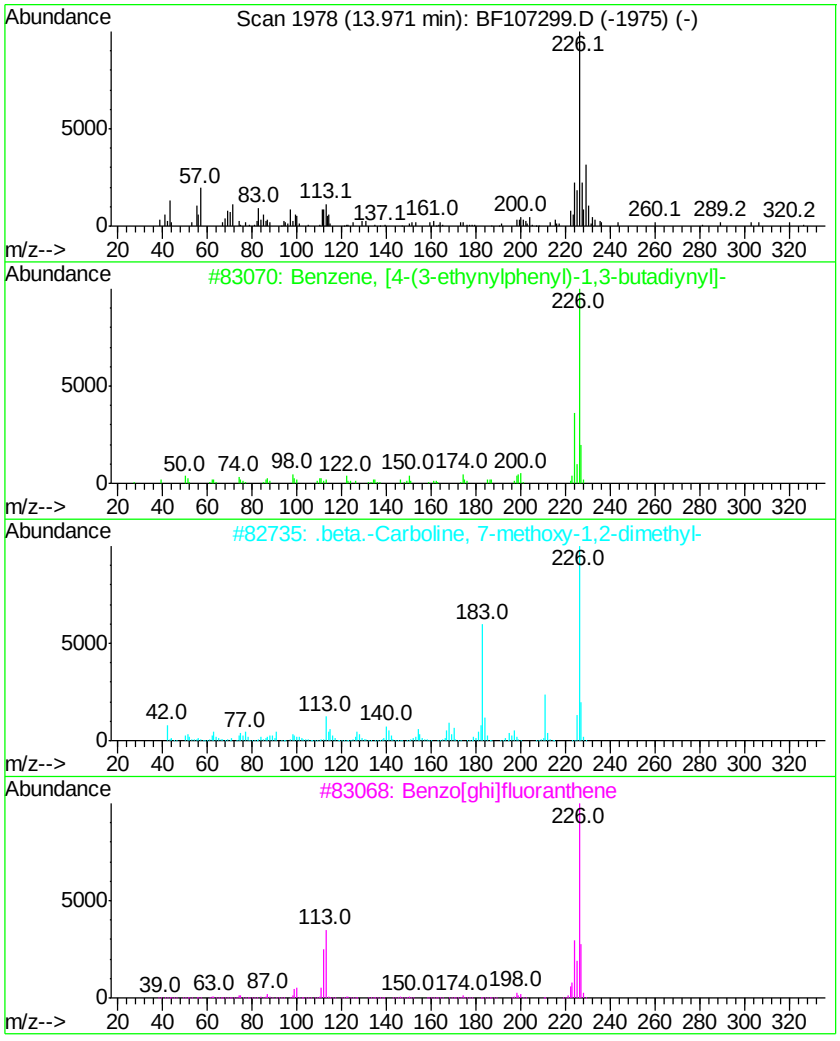
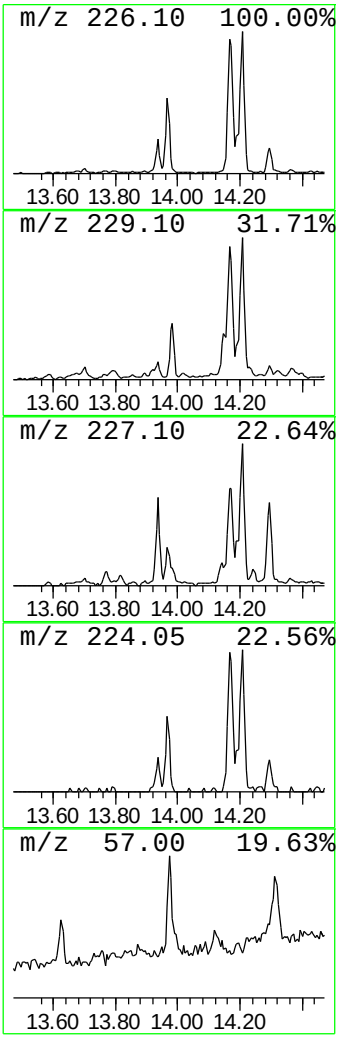
Peak Number 12 unknown13.97 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.97	2.44 ng	130926	Chrysene-d12	14.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, [4-(3-ethynylphenyl)-1,...	226	C18H10	1000115-87-3	47
2	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	47
3	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	45
4	2-(Methylthio)phenazine	226	C13H10N2S	005752-54-5	43
5	9H-Thioxanthen-9-one, 2-methyl-	226	C14H10OS	015774-82-0	38





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Data File : BF107299.D
Acq On : 11 Jul 2018 14:52
Operator : JU/SJ
Sample : J3933-10 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-10-E1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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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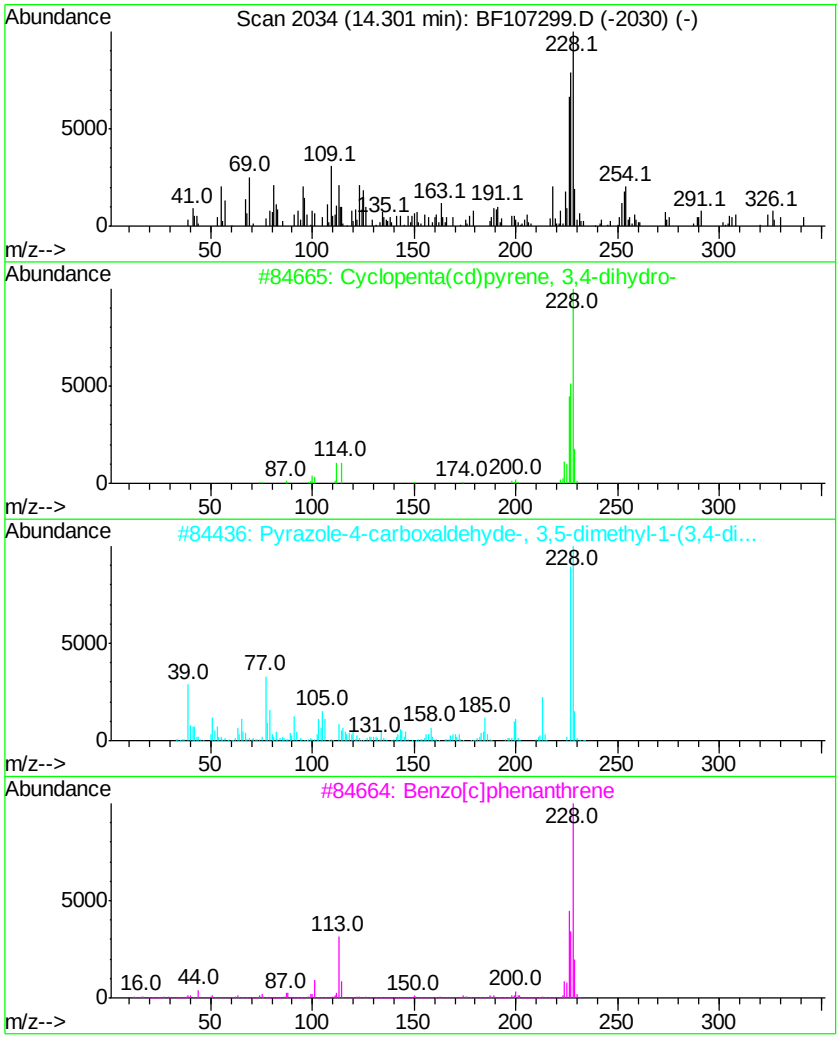
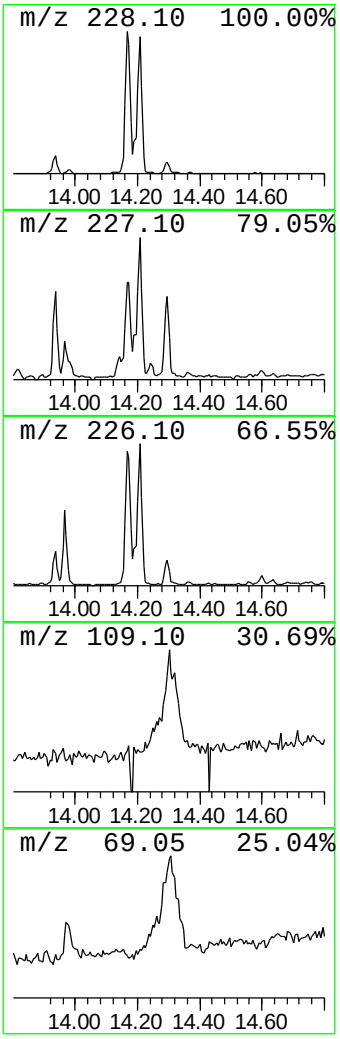
Peak Number 13 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.30	3.10 ng	166555	Chrysene-d12	14.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	50
2	Pyrazole-4-carboxaldehyde-, 3,5-...	228	C14H16N2O	1000272-54-8	50
3	Benzo[c]phenanthrene	228	C18H12	000195-19-7	45
4	Triphenylene	228	C18H12	000217-59-4	38
5	Benz[a]anthracene	228	C18H12	000056-55-3	35





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Operator : JU/SJ
Sample : J3933-10 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-10-E1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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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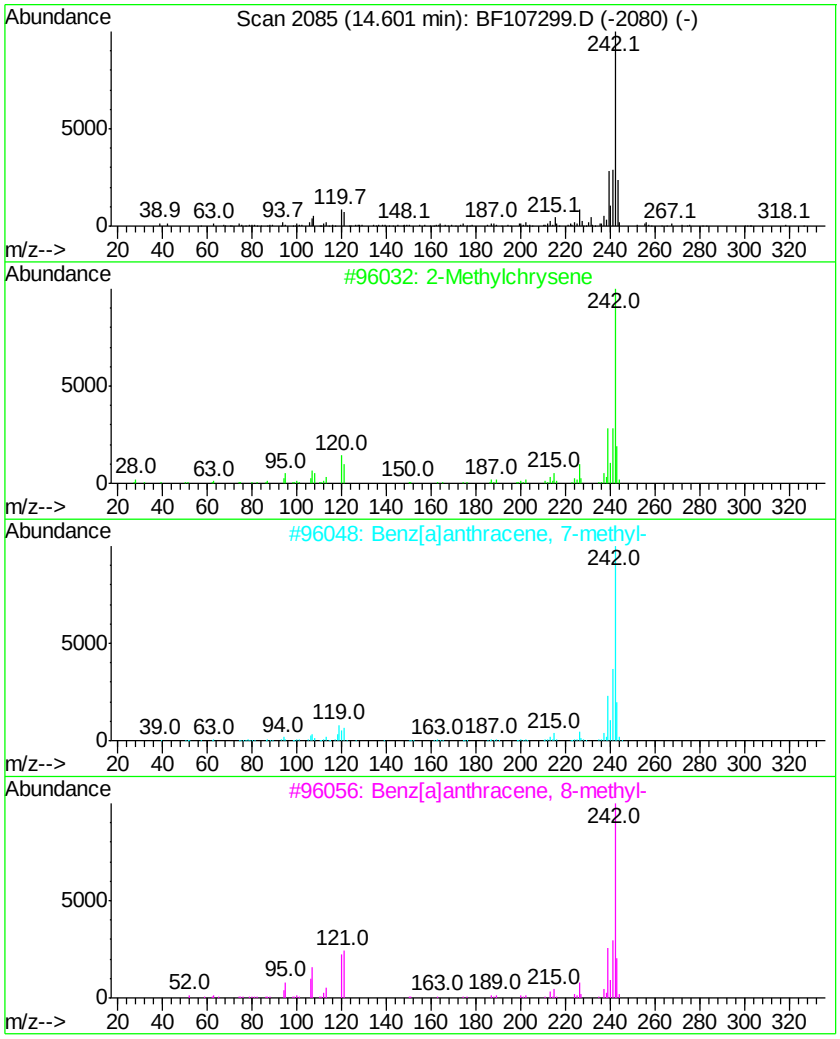
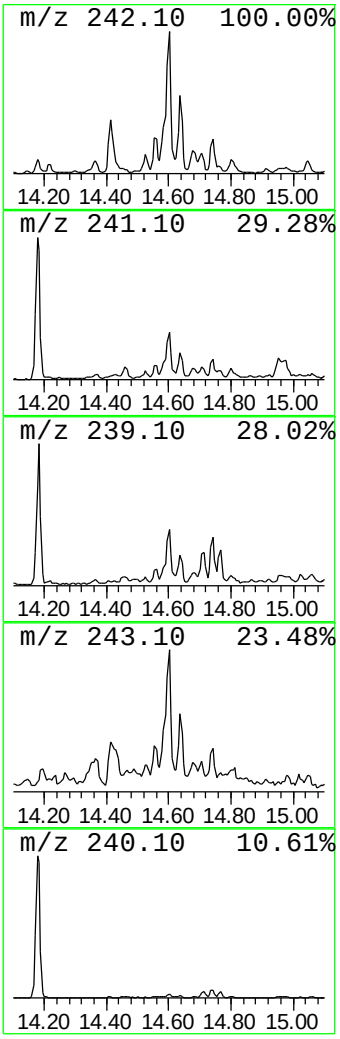
Peak Number 14 2-Methylchrysene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.60	2.15 ng	115709	Chrysene-d12	14.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Methylchrysene	242	C19H14	003351-32-4	96
2	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	95
3	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	95
4	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	95
5	Chrysene, 1-methyl-	242	C19H14	003351-28-8	94





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Sample : J3933-10 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-10-E1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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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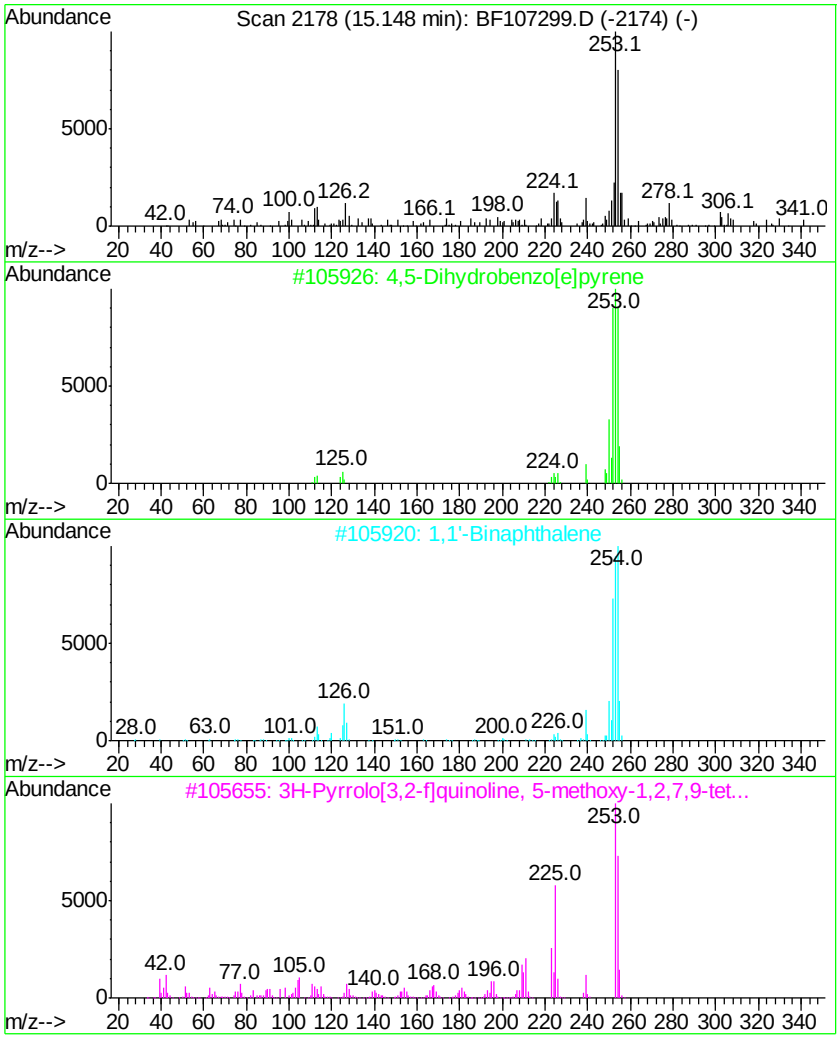
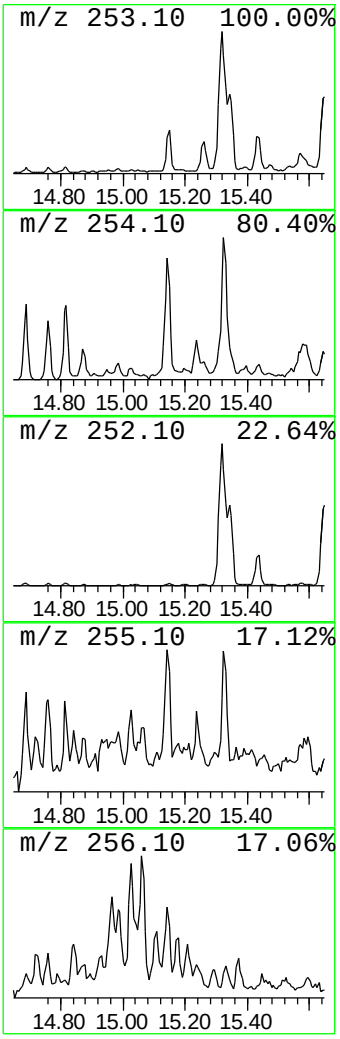
Peak Number 15 4,5-Dihydrobenzo[e]pyrene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.15	2.96 ng	73128	Perylene-d12	15.78

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,5-Dihydrobenzo[e]pyrene	254	C20H14	095676-42-9	76
2	1,1'-Binaphthalene	254	C20H14	000604-53-5	76
3	3H-Pyrrolo[3,2-f]quinoline, 5-me...	254	C16H18N2O	1000350-44-1	70
4	1,2'-Binaphthalene	254	C20H14	004325-74-0	64
5	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	64





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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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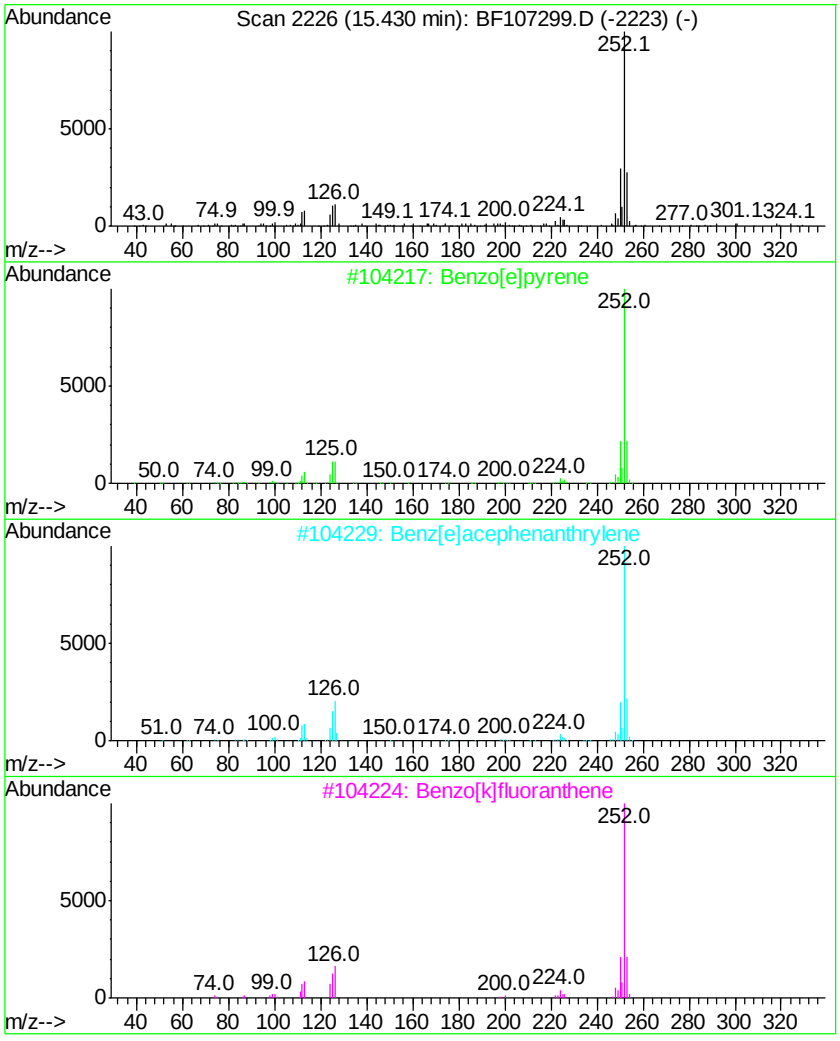
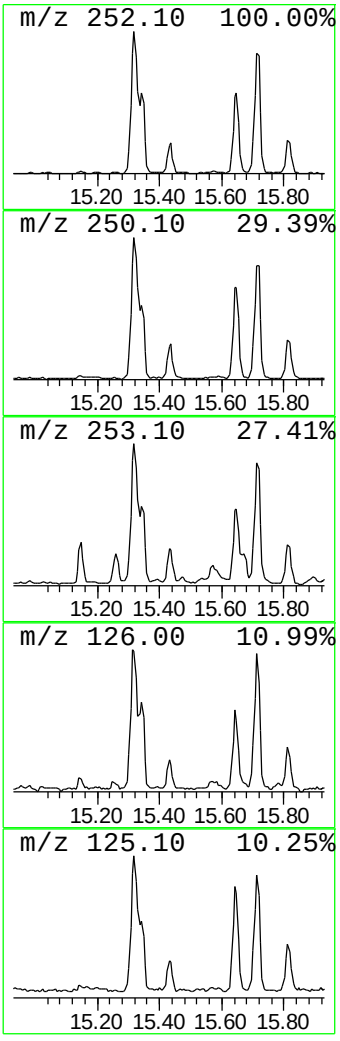
Peak Number 16 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.43	4.55 ng	112357	Perylene-d12	15.78

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90
4	Benzo[a]pyrene	252	C20H12	000050-32-8	90
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	76





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF071118\
Data File : BF107299.D
Acq On : 11 Jul 2018 14:52
Operator : JU/SJ
Sample : J3933-10 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-10-E1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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...	5.15	2.3	ng	37792	1	6.93	332582	20.0
unknown6.71	6.71	18.5	ng	307915	1	6.93	332582	20.0
Phenanthrene, 2-m...	11.98	3.5	ng	64518	4	11.48	364957	20.0
Phenanthrene, 1-m...	12.01	4.1	ng	74289	4	11.48	364957	20.0
4H-Cyclopenta[def...	12.10	6.0	ng	109136	4	11.48	364957	20.0
Naphthalene, 2-ph...	12.27	2.3	ng	40997	4	11.48	364957	20.0
9,10-Dimethylanth...	12.53	3.5	ng	63919	4	11.48	364957	20.0
Cyclopenta(def)ph...	12.62	3.2	ng	57707	4	11.48	364957	20.0
Pyrene, 1-methyl-	13.15	2.1	ng	111936	5	14.18	1075190	20.0
Anthra(1,2-b)thio...	13.91	2.1	ng	115263	5	14.18	1075190	20.0
unknown13.97	13.97	2.4	ng	130926	5	14.18	1075190	20.0
Cyclopenta(cd)pyr...	14.30	3.1	ng	166555	5	14.18	1075190	20.0
2-Methylchrysene	14.60	2.1	ng	115709	5	14.18	1075190	20.0
4,5-Dihydrobenzo[...	15.15	3.0	ng	73128	6	15.78	493757	20.0
Benzo[e]pyrene	15.43	4.5	ng	112357	6	15.78	493757	20.0