LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122117\
Data File : BF101609.D
Acq On : 21 Dec 2017 16:17
Operator : SJ/JU
Sample : I6988-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT4008-RT3867-RT3075

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:\HPCHEM1\BNA_F\METHODS\8270-BF121417.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	5.022	495	499	517	rBV	602262	1081445	25.65%	2.481%
2	5.428	563	568	592	rBV	3284433	4148120	98.40%	9.515%
3	6.445	736	741	758	rBV	3309206	4215421	100.00%	9.669%
4	6.575	758	763	766	rBV	3604584	3705773	87.91%	8.500%
5	6.798	797	801	809	rBV	924852	867751	20.59%	1.990%
6	6.951	823	827	842	rBV	2994249	3055335	72.48%	7.008%
7	7.369	893	898	901	rBV	2465432	2463391	58.44%	5.650%
8	8.080	1015	1019	1039	rVB	1091619	1102566	26.16%	2.529%
9	9.157	1196	1202	1205	rBV	3609051	3776041	89.58%	8.661%
10	9.222	1210	1213	1216	rVB	50129	44269	1.05%	0.102%
11	9.545	1262	1268	1275	rBV	313414	347717	8.25%	0.798%
12	9.698	1288	1294	1299	rBV	63936	76045	1.80%	0.174%
13	9.751	1299	1303	1306	rVV	148754	112967	2.68%	0.259%
14	9.833	1313	1317	1321	rBV2	1092075	963655	22.86%	2.210%
15	10.074	1355	1358	1361	rVB3	38136	43600	1.03%	0.100%
16	10.251	1385	1388	1391	rVB	166978	136449	3.24%	0.313%
17	10.469	1417	1425	1427	rBV2	56308	74806	1.77%	0.172%
18	10.627	1448	1452	1462	rBV	1744134	1793216	42.54%	4.113%
19	10.721	1465	1468	1474	rBV	141994	145305	3.45%	0.333%
20	11.169	1541	1544	1547	rBV	74340	57003	1.35%	0.131%
21	11.321	1567	1570	1573	rBV	865725	856881	20.33%	1.965%
22	11.345	1573	1574	1580	rVV	561823	459747	10.91%	1.055%
23	11.404	1580	1584	1589	rVB	175749	166164	3.94%	0.381%
24	11.827	1653	1656	1659	rBV	104067	141849	3.37%	0.325%
25	11.857	1659	1661	1666	rVV	145333	130623	3.10%	0.300%
26	11.904	1666	1669	1672	rVV	54617	51836	1.23%	0.119%
27	11.939	1672	1675	1677	rVV2	199605	202285	4.80%	0.464%
28	11.963	1677	1679	1683	rVB	70001	59222	1.40%	0.136%
29	12.121	1702	1706	1710	rBV	75590	75876	1.80%	0.174%
30	12.163	1710	1713	1716	rVV2	55218	55163	1.31%	0.127%
31	12.374	1746	1749	1752	rBV	80343	86490	2.05%	0.198%
32	12.415	1752	1756	1758	rVV3	42072	55607	1.32%	0.128%
33	12.474	1761	1766	1773	rVB2	86092	111820	2.65%	0.256%
34	12.545	1773	1778	1781	rBV	1471260	1490446	35.36%	3.419%

LSC Area Percent Report

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Operator : SJ/JU
Sample : I6988-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT4008-RT3867-RT3075

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:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.692	1799	1803	1806	rBV	83005	84961	2.02%	0.195%
36	12.774	1810	1817	1822	rBV	1437527	1633110	38.74%	3.746%
37	12.821	1822	1825	1828	rVB	62081	65072	1.54%	0.149%
38	12.910	1834	1840	1843	rBV	2770632	2772232	65.76%	6.359%
39	12.939	1843	1845	1849	rVB	47179	48221	1.14%	0.111%
40	12.992	1849	1854	1857	rBV2	89035	149094	3.54%	0.342%
41	13.074	1864	1868	1869	rBV3	65729	70762	1.68%	0.162%
42	13.098	1869	1872	1877	rVB	180782	196023	4.65%	0.450%
43	13.163	1881	1883	1886	rBV	101589	88677	2.10%	0.203%
44	13.204	1886	1890	1894	rVV2	118917	135774	3.22%	0.311%
45	13.298	1903	1906	1908	rBV	77265	61170	1.45%	0.140%
46	13.327	1908	1911	1914	rBV	76213	70425	1.67%	0.162%
47	13.621	1958	1961	1967	rVB	104327	110576	2.62%	0.254%
48	13.721	1975	1978	1980	rBV2	142294	134942	3.20%	0.310%
49	13.745	1980	1982	1985	rVB	121564	82770	1.96%	0.190%
50	13.786	1985	1989	1994	rBV4	172593	289265	6.86%	0.664%
51	13.827	1994	1996	2002	rVB2	128856	129236	3.07%	0.296%
52	13.974	2014	2021	2023	rBV2	1147127	1731339	41.07%	3.971%
53	13.998	2023	2025	2029	rVB	718442	608805	14.44%	1.396%
54	14.080	2036	2039	2042	rBV	146840	128008	3.04%	0.294%
55	14.133	2046	2048	2053	rVV3	61493	66410	1.58%	0.152%
56	14.321	2078	2080	2082	rBV	46416	46389	1.10%	0.106%
57	14.357	2084	2086	2089	rVB	92198	97039	2.30%	0.223%
58	14.486	2106	2108	2110	rBV	63474	57317	1.36%	0.131%
59	15.015	2194	2198	2200	rBV	512411	694513	16.48%	1.593%
60	15.121	2214	2216	2221	rVB	87290	86514	2.05%	0.198%
61	15.315	2245	2249	2254	rVB	278734	316213	7.50%	0.725%
62	15.380	2256	2260	2266	rVV	357758	501837	11.90%	1.151%
63	15.439	2266	2270	2273	rVV	467317	582588	13.82%	1.336%
64	15.468	2273	2275	2280	rVB	111501	141320	3.35%	0.324%
65	16.915	2517	2521	2528	rVB	139613	261094	6.19%	0.599%

Sum of corrected areas: 43596580

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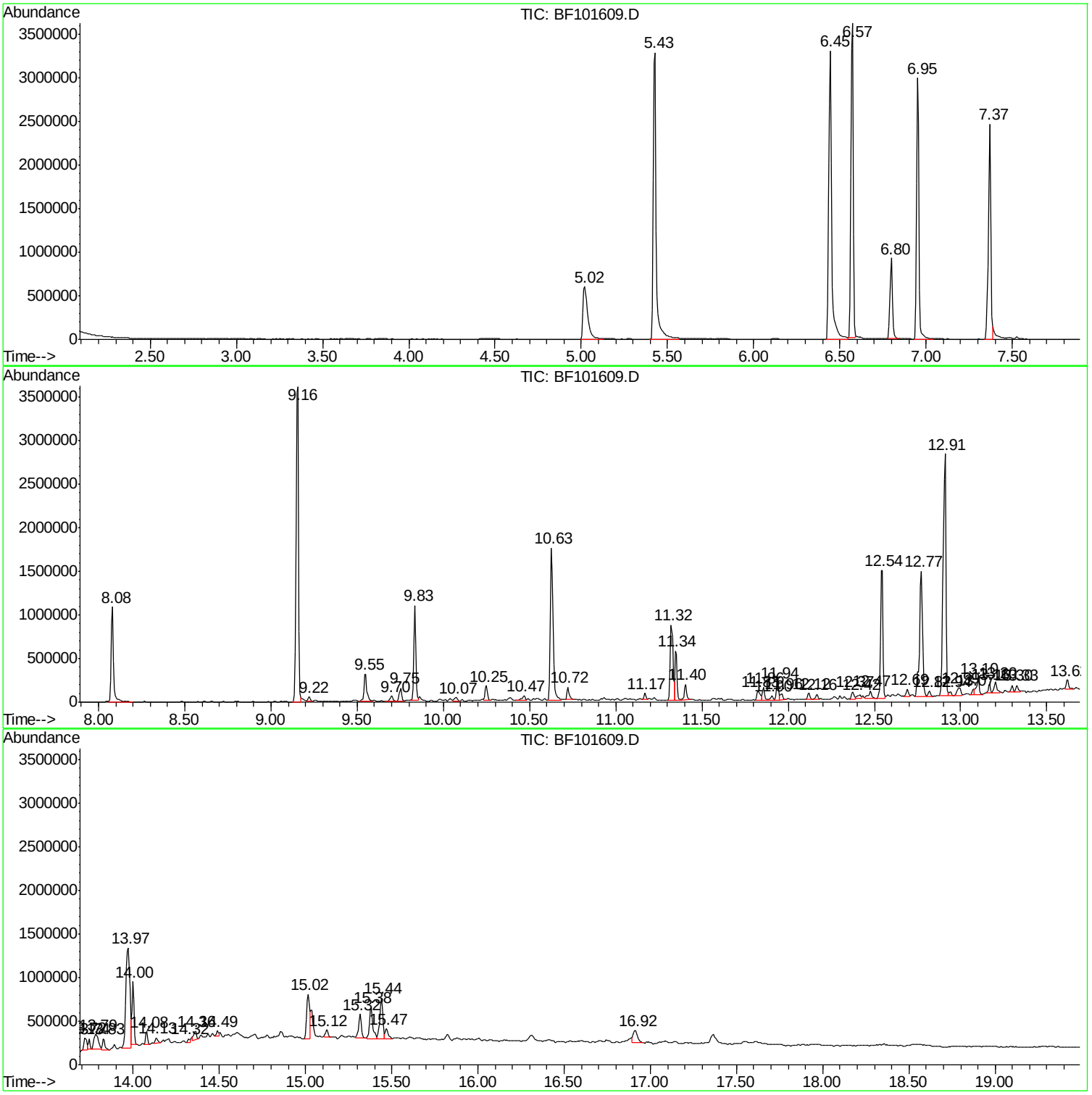
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RT4008-RT3867-RT3075

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.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

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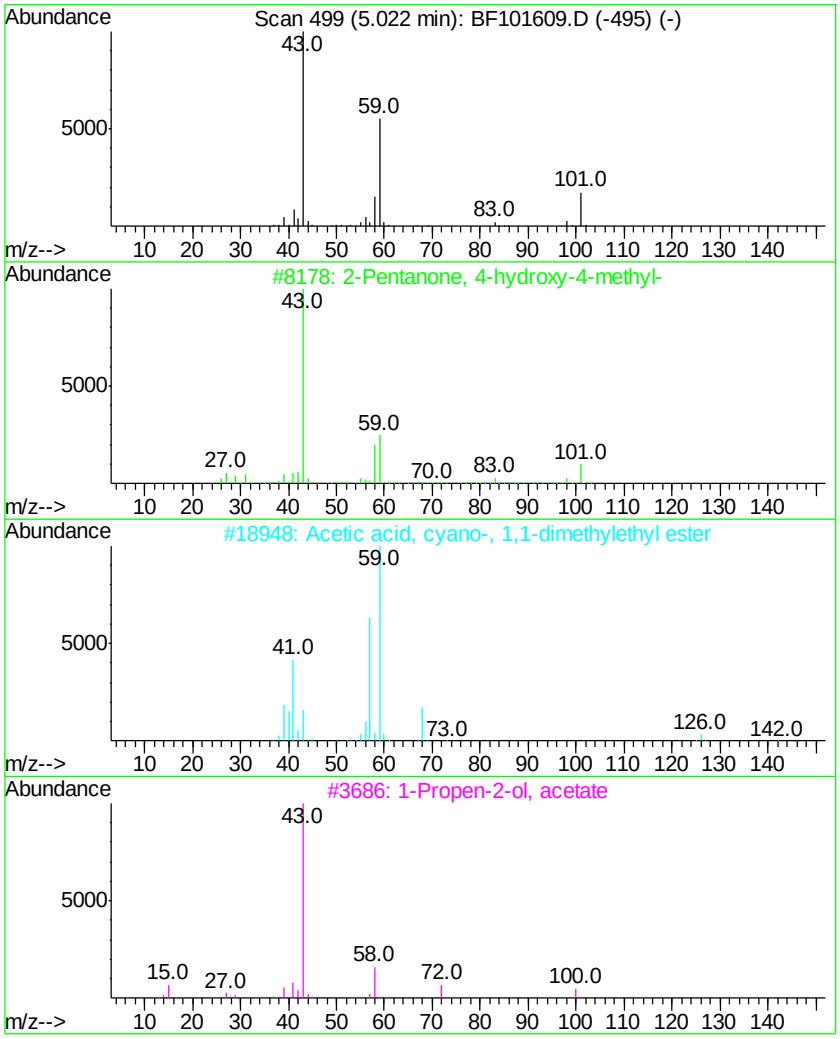
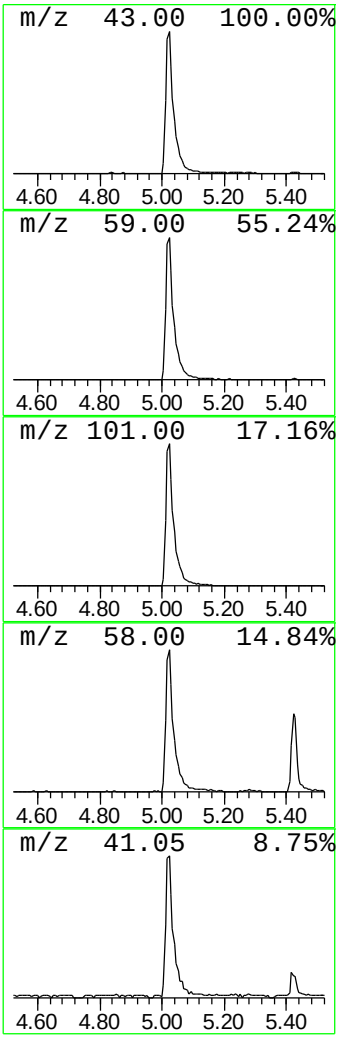
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.02	24.93 ng	1081450	1,4-Dichlorobenzene-d4	6.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
4	2-Butanone, 3-ethoxy-3-methyl-	130	C7H14O2	036687-99-7	9
5	1,2-Butanediol	90	C4H10O2	000584-03-2	9





Library Search Compound Report

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Sample : I6988-01
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Instrument : BNA_F
ClientSampleId : RT4008-RT3867-RT3075

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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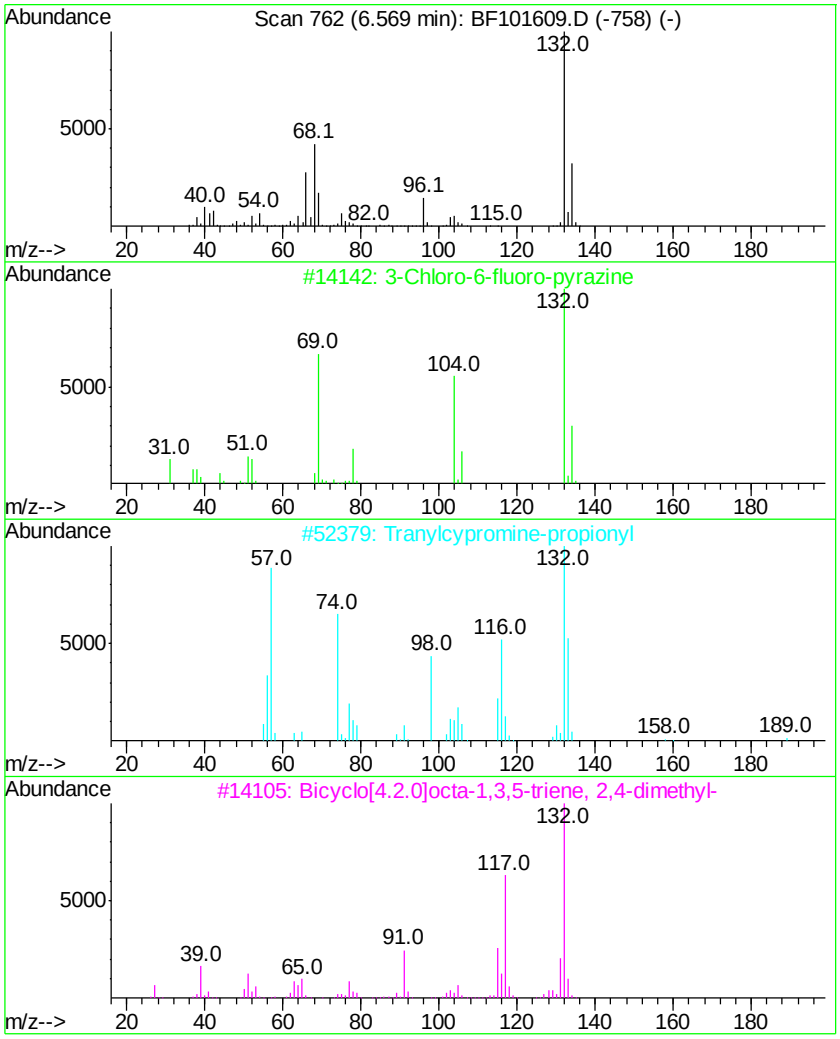
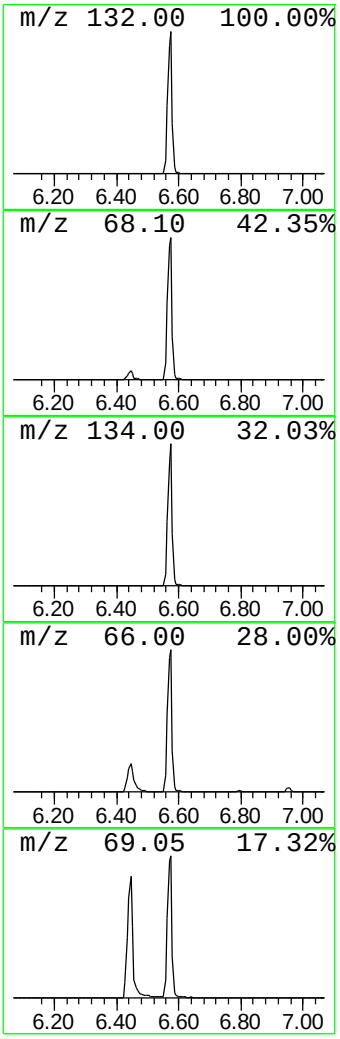
****

Peak Number 2 unknown6.57 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.57	85.41 ng	3705770	1,4-Dichlorobenzene-d4	6.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
3	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
4	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	9
5	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9





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Instrument : BNA_F
ClientSampleId : RT4008-RT3867-RT3075

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
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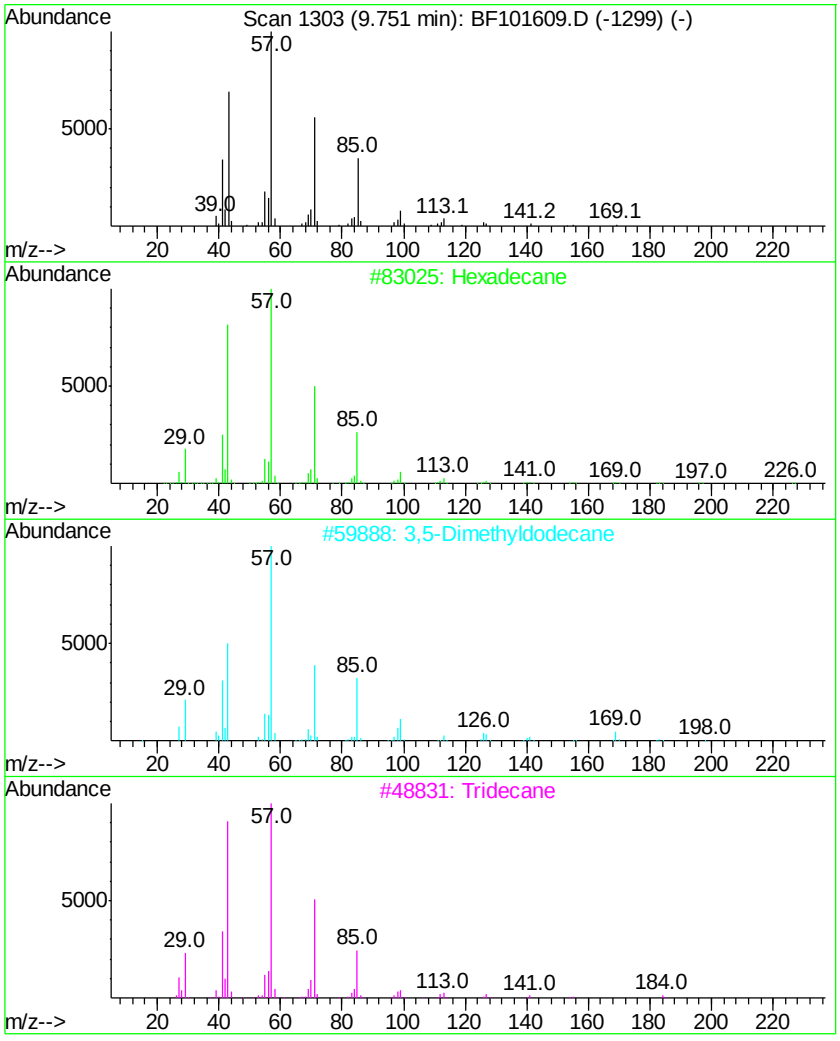
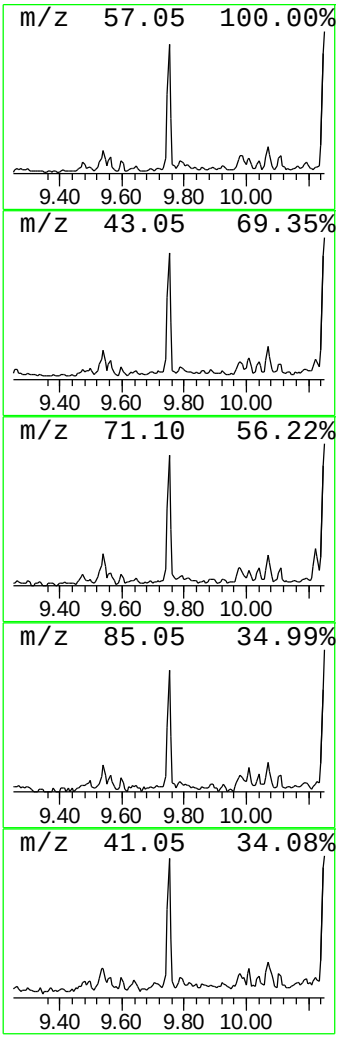
Peak Number 4 Hexadecane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.75	2.34 ng	112967	Acenaphthene-d10	9.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	90
2	3,5-Dimethyldodecane	198	C14H30	107770-99-0	78
3	Tridecane	184	C13H28	000629-50-5	72
4	Sulfurous acid, 2-ethylhexyl hex...	278	C14H30O3S	1000309-20-2	64
5	Vinyl decanoate	198	C12H22O2	004704-31-8	53





Library Search Compound Report

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Instrument : BNA_F
ClientSampleId : RT4008-RT3867-RT3075

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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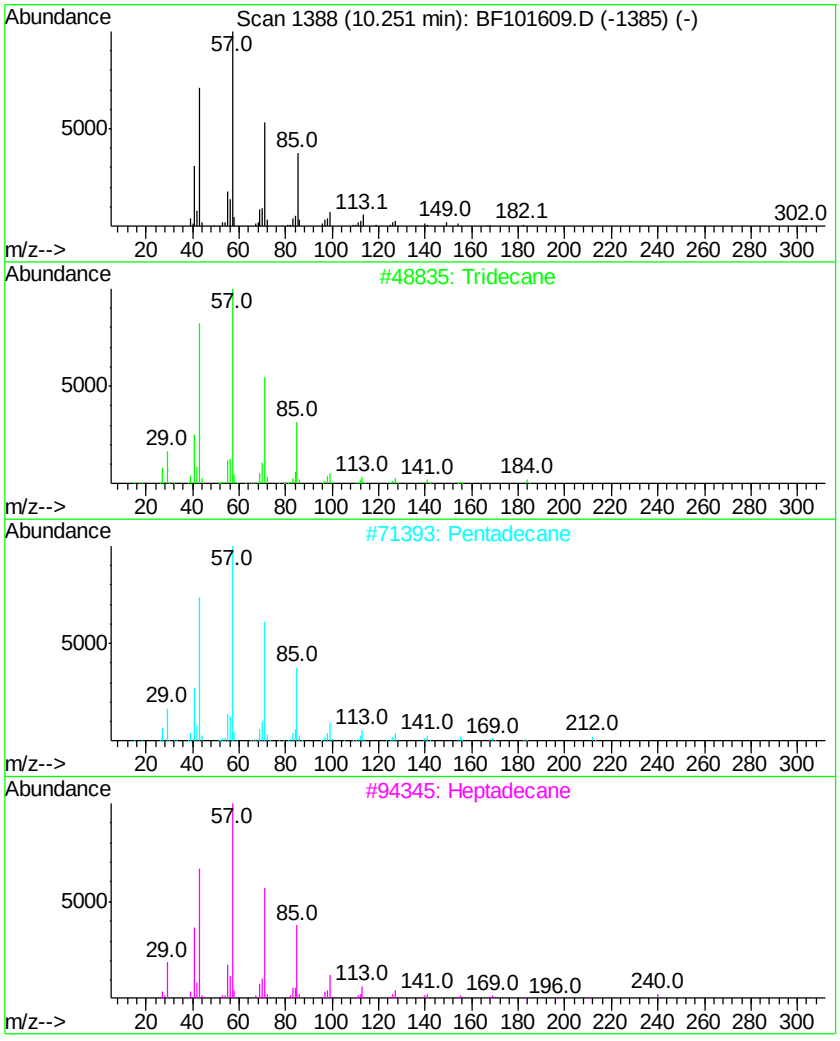
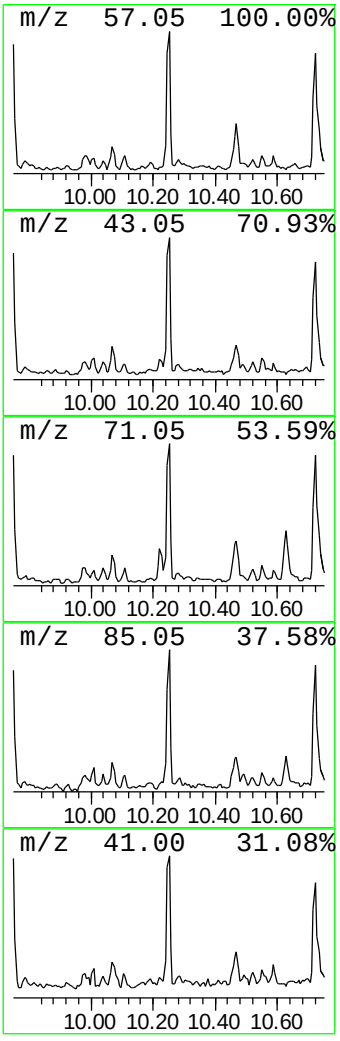
Peak Number 5 Tridecane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.25	2.83 ng	136449	Acenaphthene-d10	9.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	90
2	Pentadecane	212	C15H32	000629-62-9	90
3	Heptadecane	240	C17H36	000629-78-7	90
4	Tetradecane	198	C14H30	000629-59-4	86
5	Hexadecane	226	C16H34	000544-76-3	86





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Instrument : BNA_F
ClientSampleId : RT4008-RT3867-RT3075

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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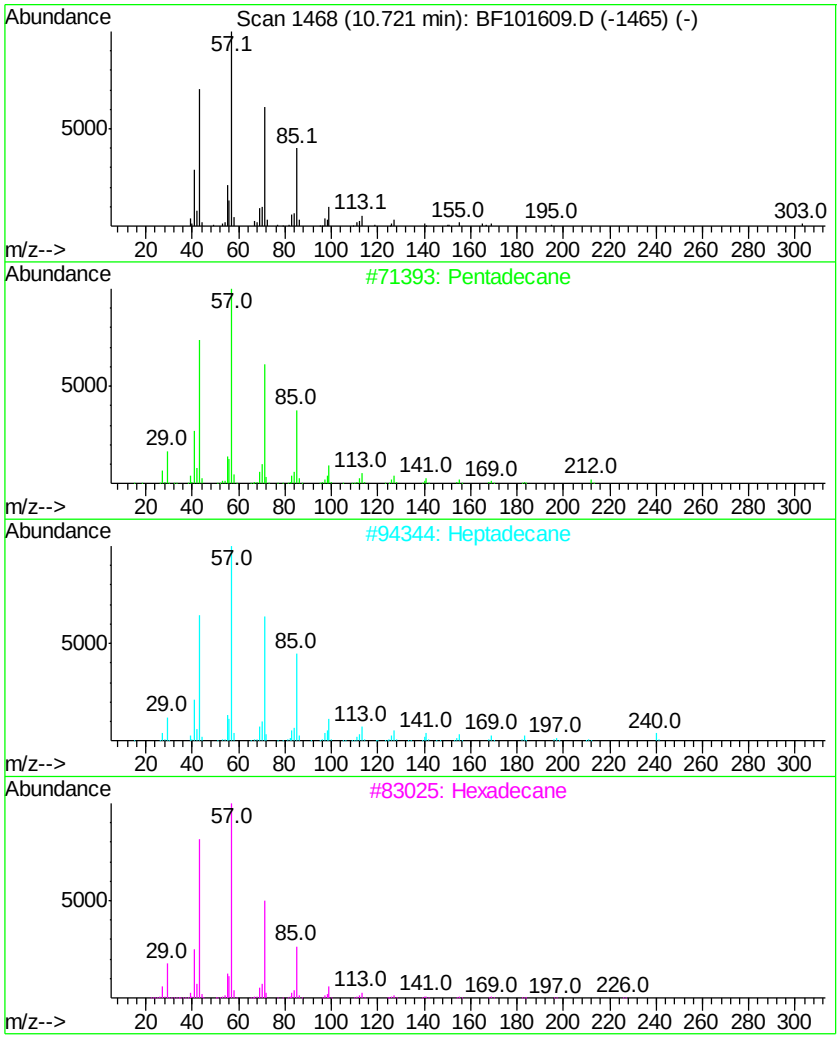
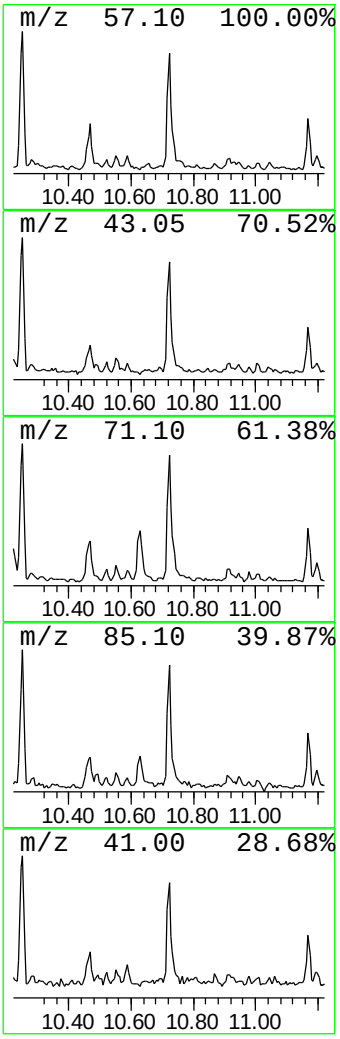
Peak Number 6 Pentadecane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.72	3.39 ng	145305	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane	212	C15H32	000629-62-9	91
2	Heptadecane	240	C17H36	000629-78-7	90
3	Hexadecane	226	C16H34	000544-76-3	90
4	Octadecane	254	C18H38	000593-45-3	90
5	Nonadecane	268	C19H40	000629-92-5	86





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Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT4008-RT3867-RT3075

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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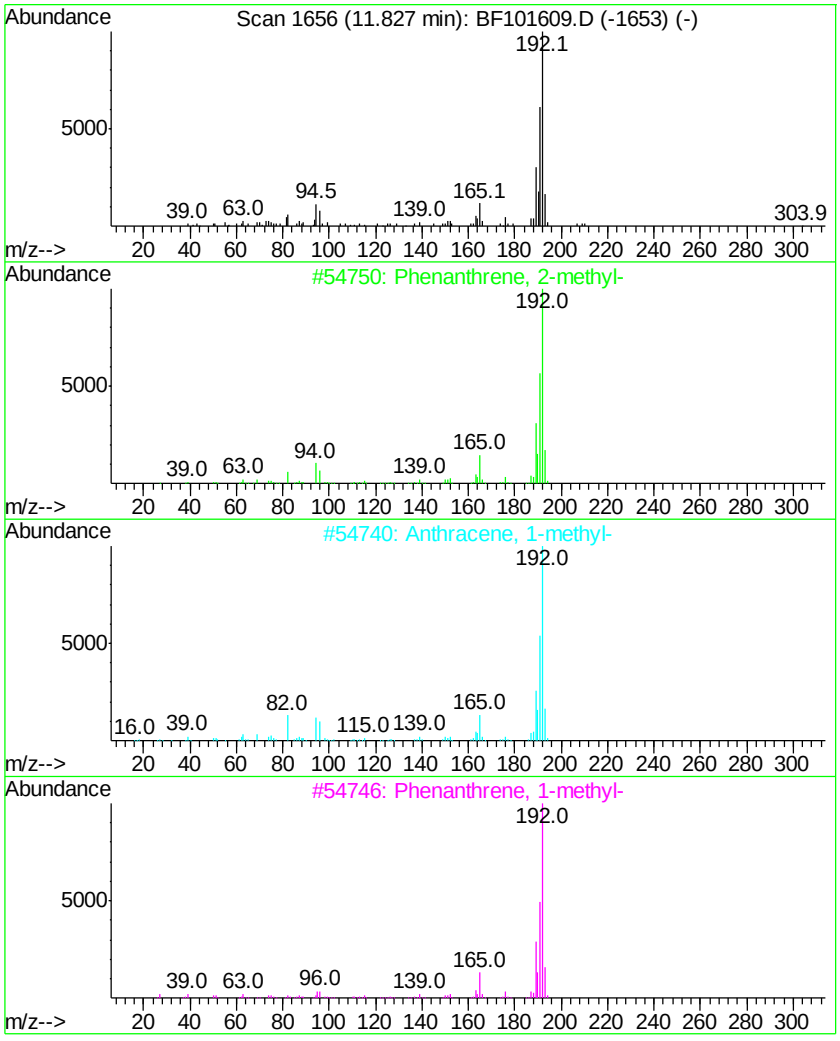
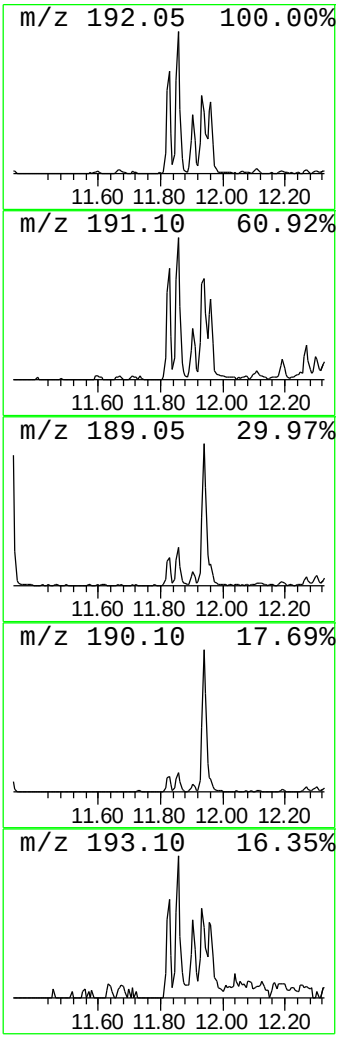
Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.83	3.31 ng	141849	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94





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Operator : SJ/JU
Sample : I6988-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT4008-RT3867-RT3075

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.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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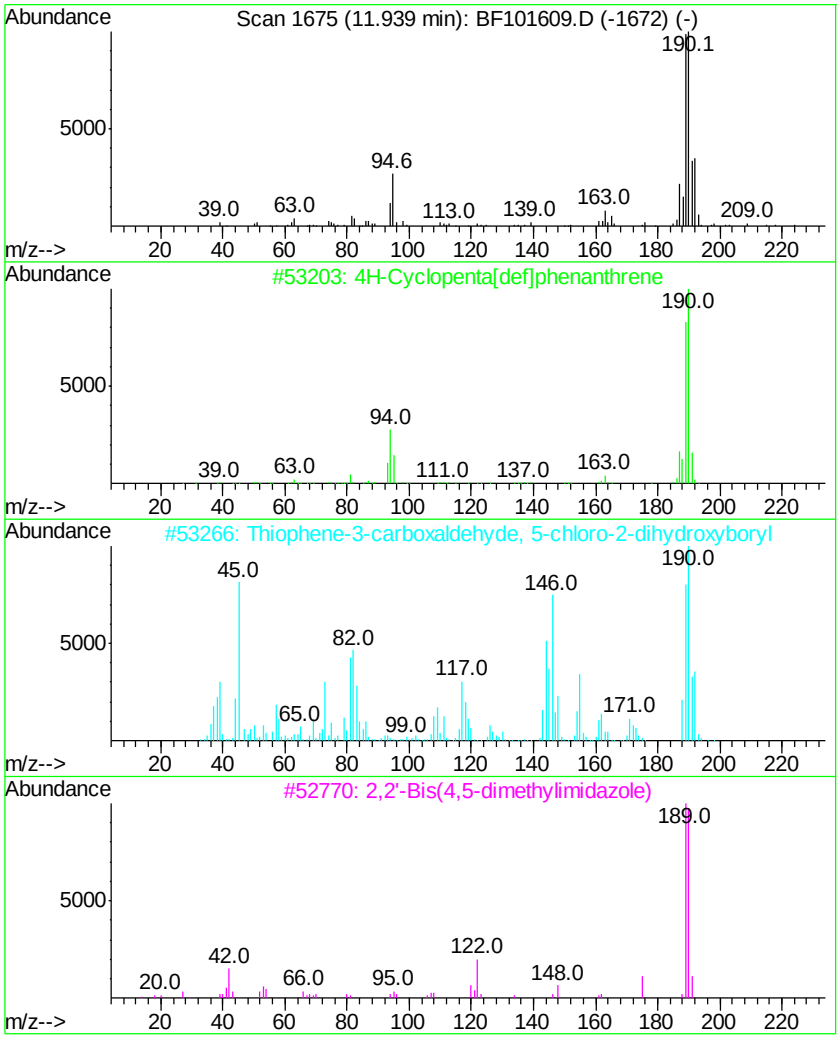
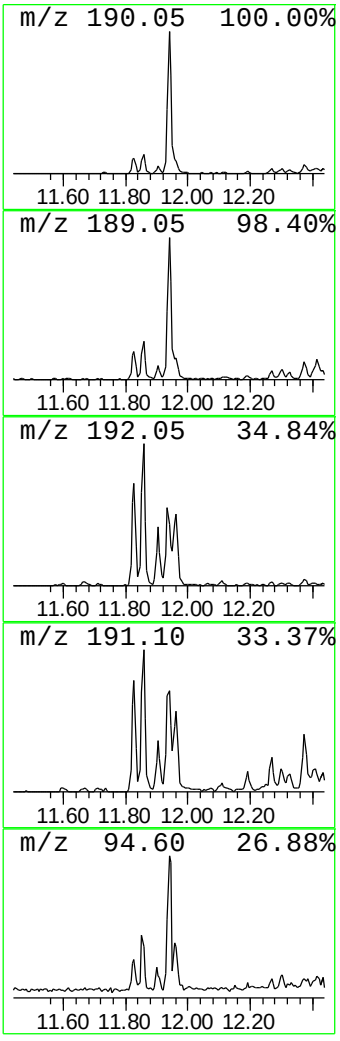
Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.94	4.72 ng	202285	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	49
3	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	28
4	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	16
5	Hydrazinecarboxaldehyde, 2-[3-(m...	190	C4H6N4OS2	038362-25-3	14





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Sample : I6988-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT4008-RT3867-RT3075

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

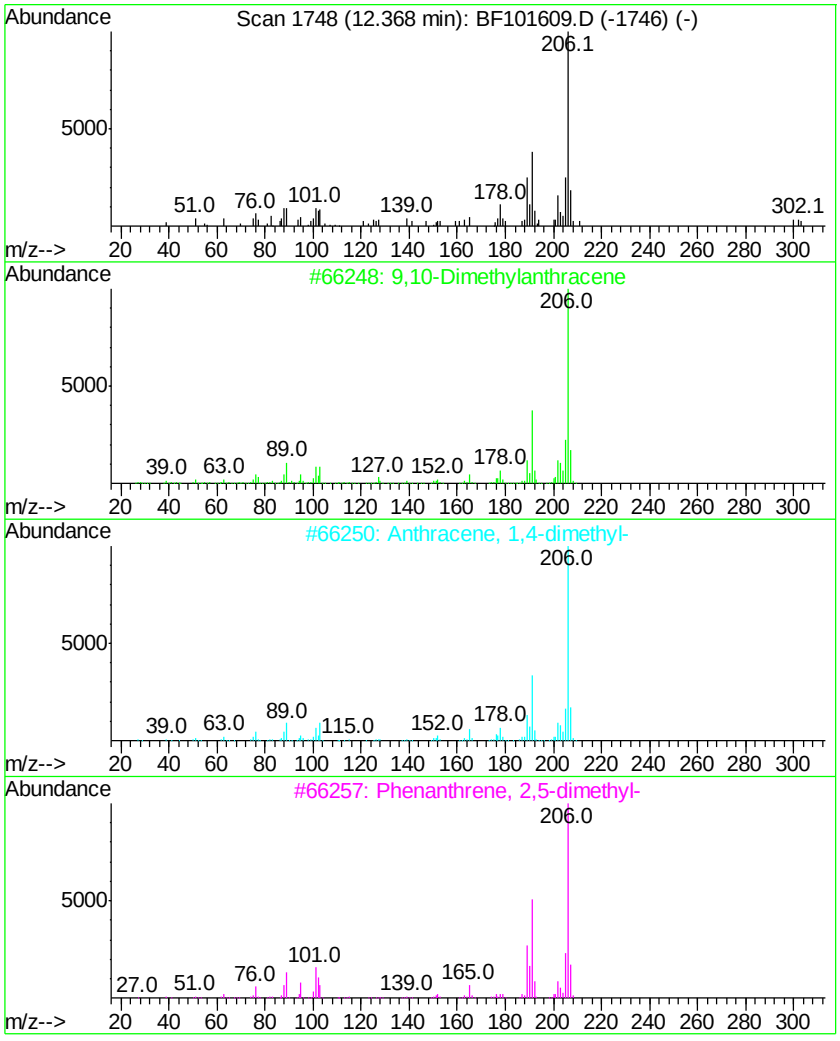
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

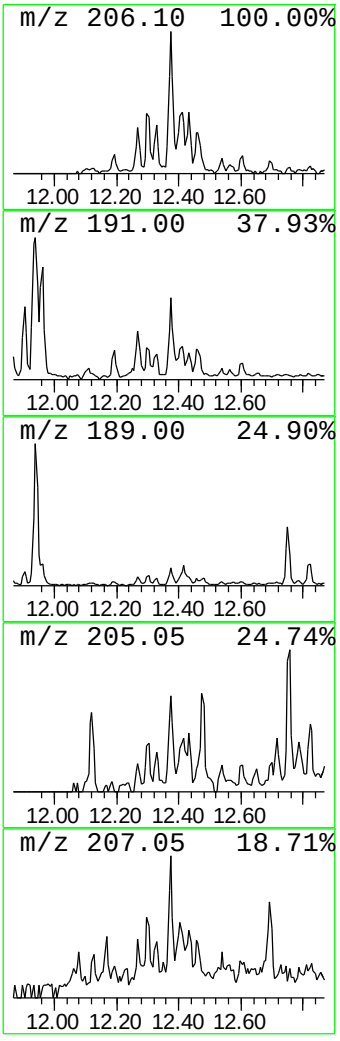
****

Peak Number 10 9,10-Dimethylanthracene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.37	2.02 ng	86490	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
2	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	95
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	94
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93





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Data File : BF101609.D
Acq On : 21 Dec 2017 16:17
Operator : SJ/JU
Sample : I6988-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT4008-RT3867-RT3075

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.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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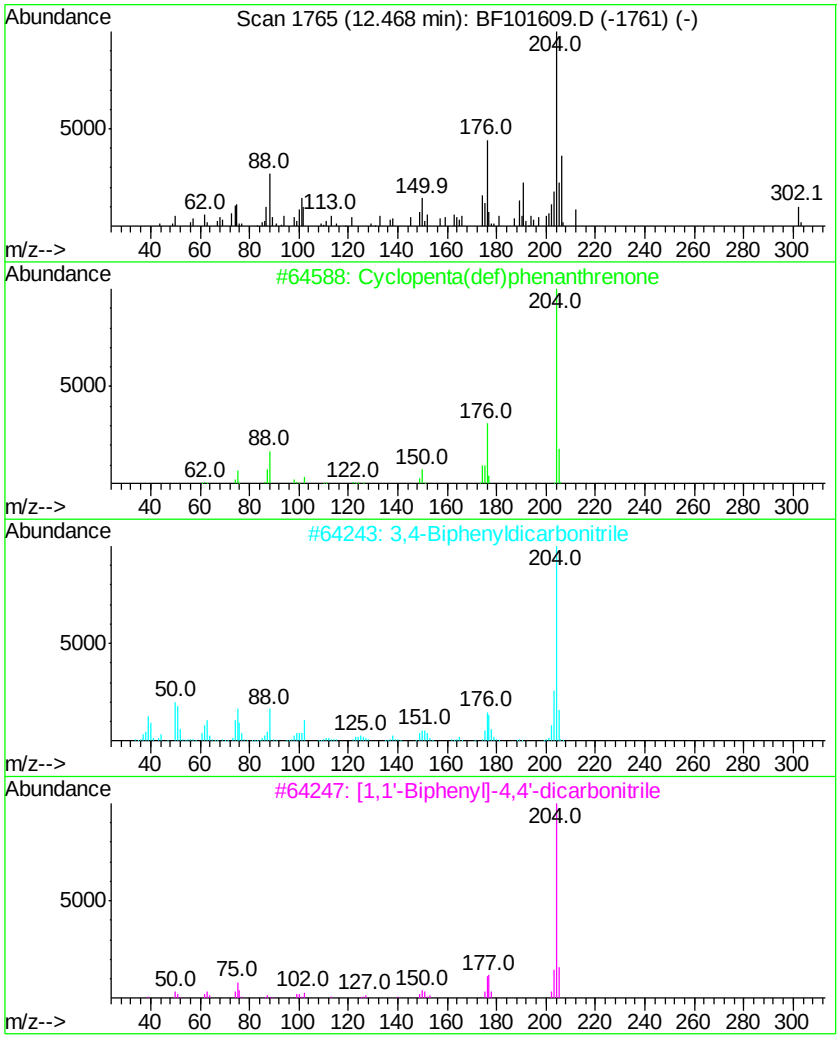
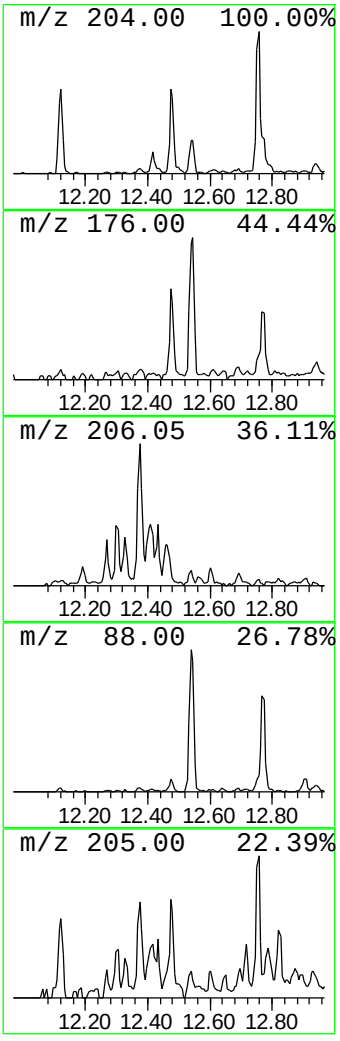
Peak Number 11 Cyclopenta(def)phenanthrenone Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.47	2.61 ng	111820	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	97
2	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	59
3	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	58
4	9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	53
5	4-Quinolinol, 5,8-dimethoxy-2-me...	219	C12H13NO3	1000337-90-3	53





Library Search Compound Report

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Data File : BF101609.D
Acq On : 21 Dec 2017 16:17
Operator : SJ/JU
Sample : I6988-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT4008-RT3867-RT3075

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
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TIC Library : C:\DATABASE\NIST11.L
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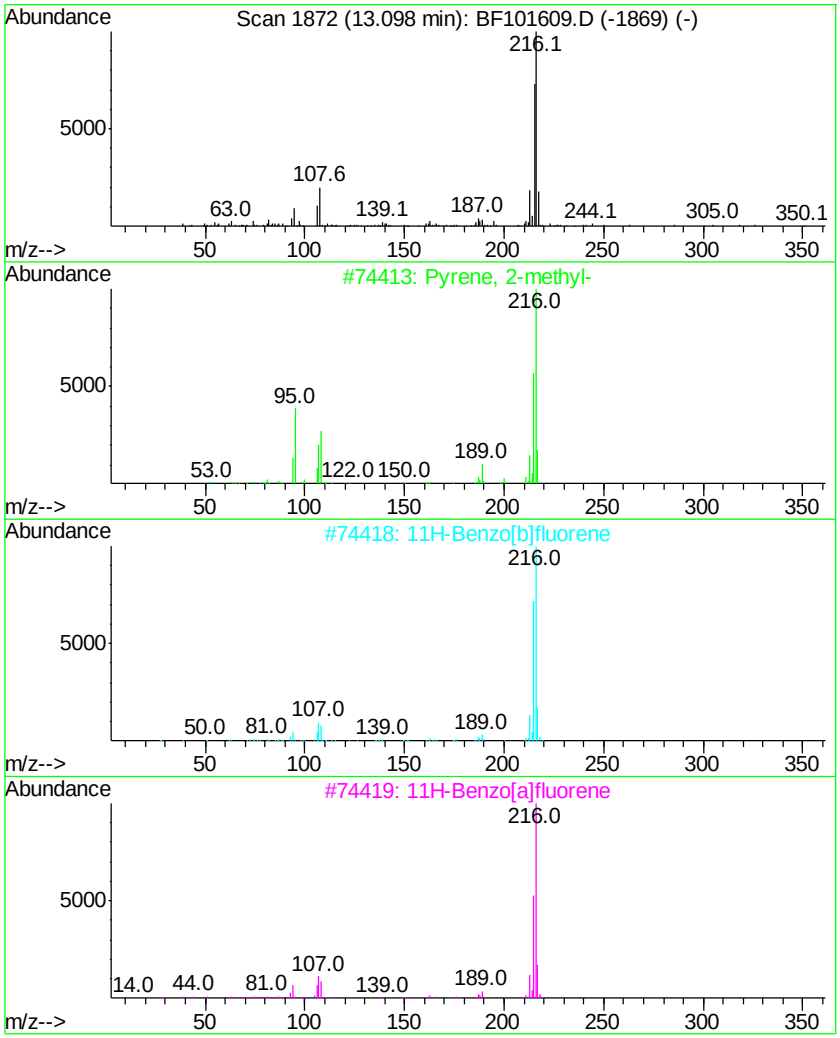
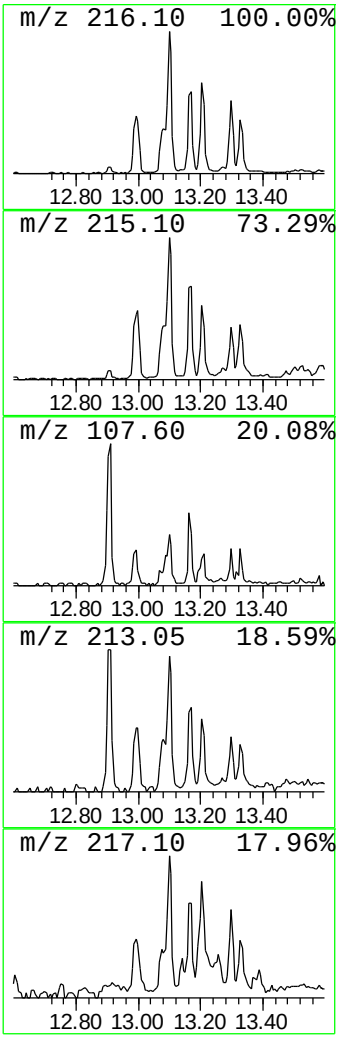
Peak Number 12 Pyrene, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.10	2.26 ng	196023	Chrysene-d12	13.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 2-methyl-	216	C17H12	003442-78-2	94
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	83





Library Search Compound Report

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Operator : SJ/JU
Sample : I6988-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT4008-RT3867-RT3075

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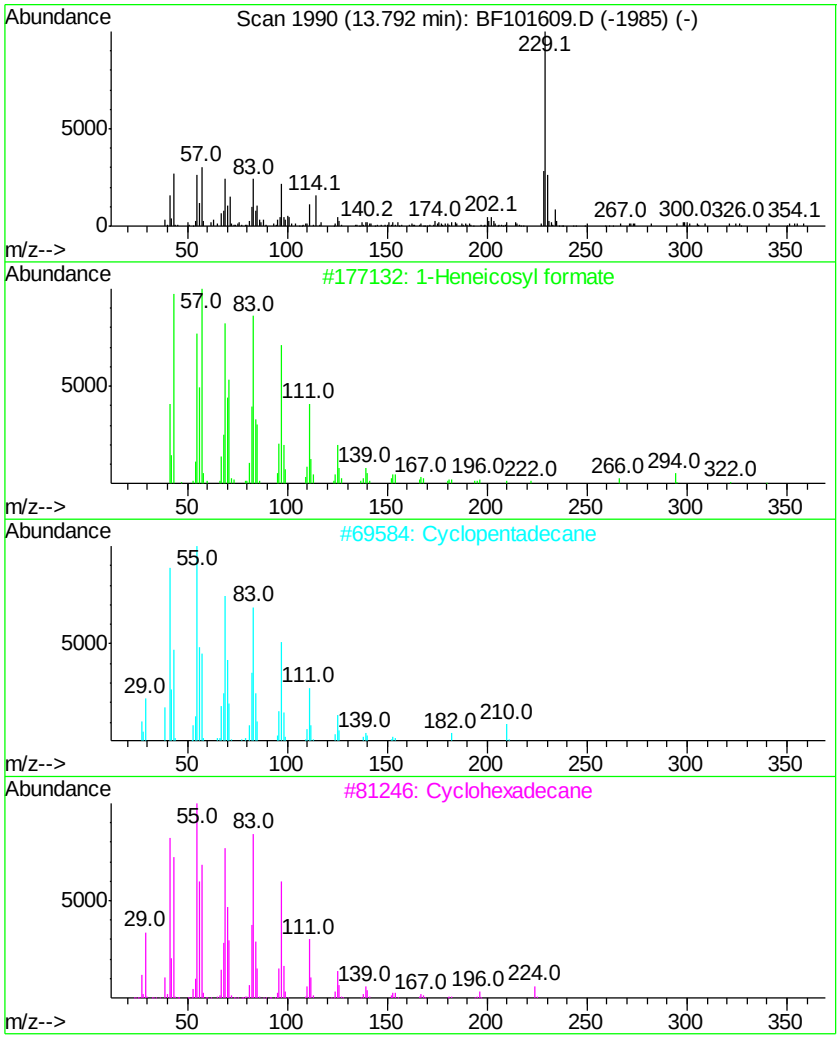
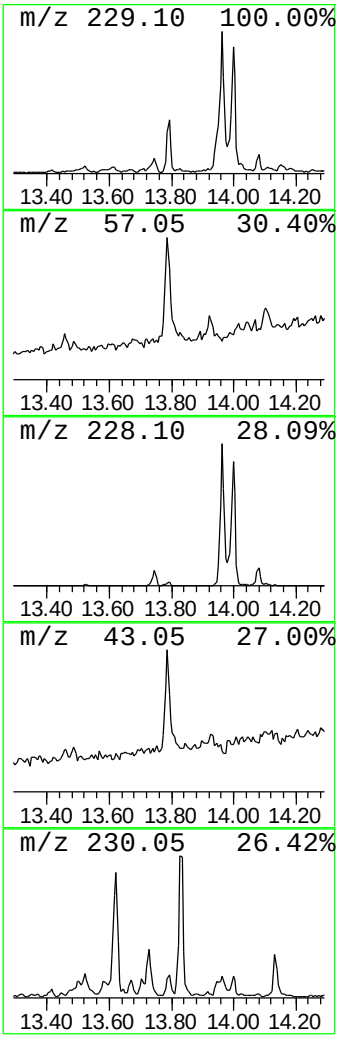
Peak Number 13 1-Heneicosyl formate Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.79	3.34 ng	289265	Chrysene-d12	13.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosyl formate	340	C22H44O2	077899-03-7	86
2	Cyclopentadecane	210	C15H30	000295-48-7	74
3	Cyclohexadecane	224	C16H32	000295-65-8	66
4	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	62
5	Pentafluoropropionic acid, penta...	374	C18H31F5O2	959092-08-1	62





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Operator : SJ/JU
Sample : I6988-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT4008-RT3867-RT3075

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
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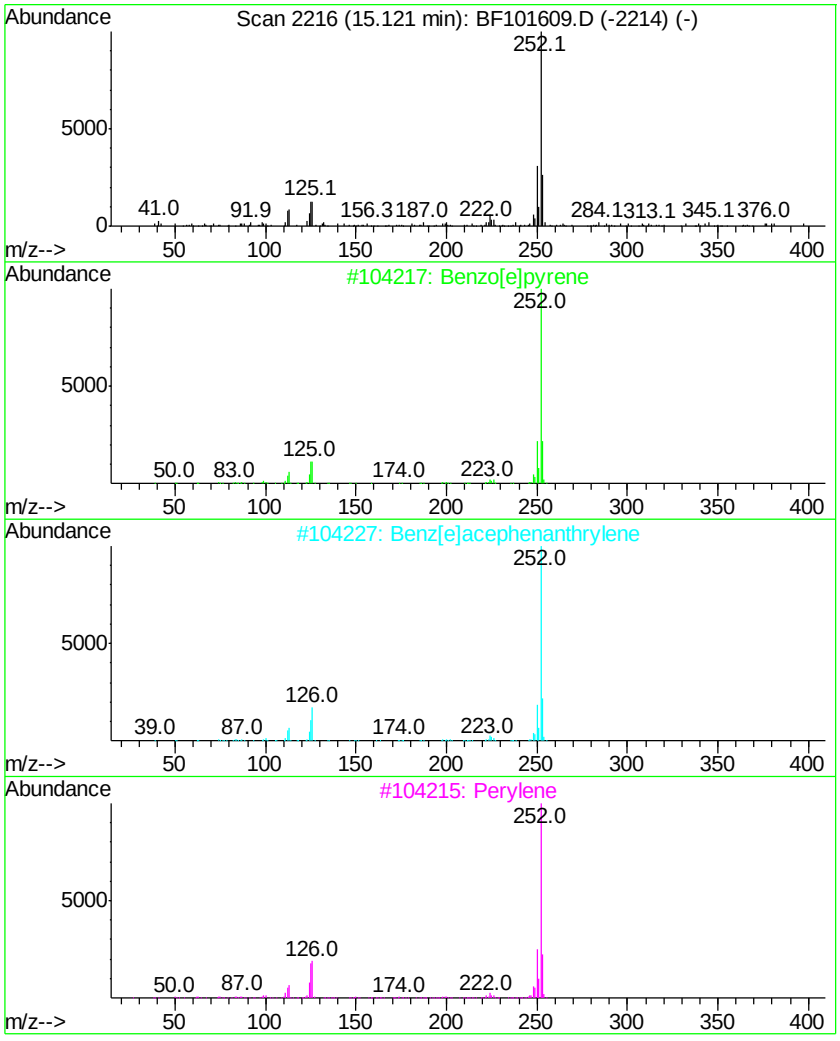
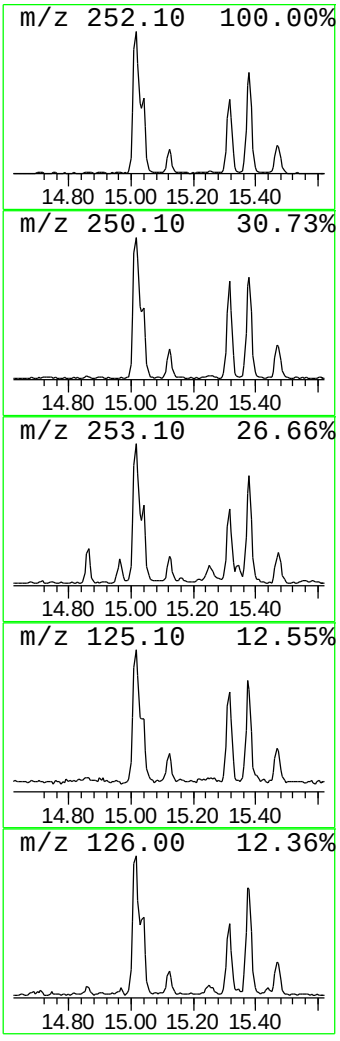
Peak Number 14 Benzo[e]pyrene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.12	2.97 ng	86514	Perylene-d12	15.44

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	93
3	Perylene	252	C20H12	000198-55-0	93
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	92
5	Benzo[a]pyrene	252	C20H12	000050-32-8	81





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ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT4008-RT3867-RT3075

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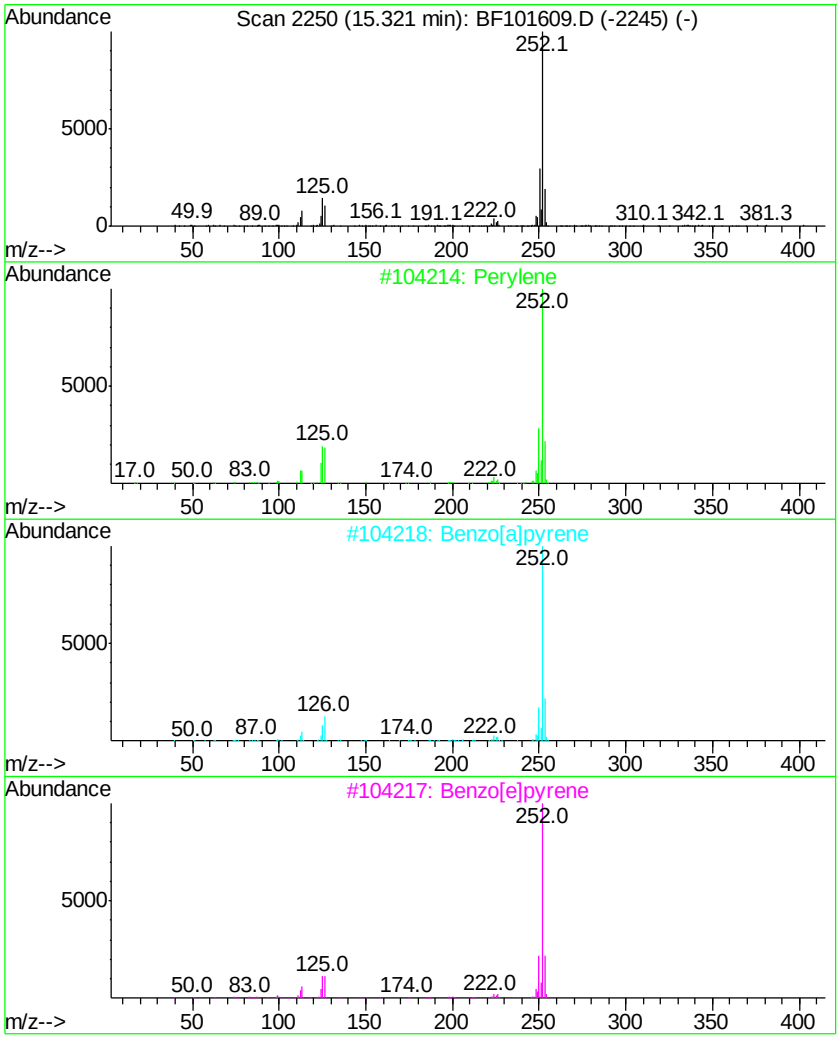
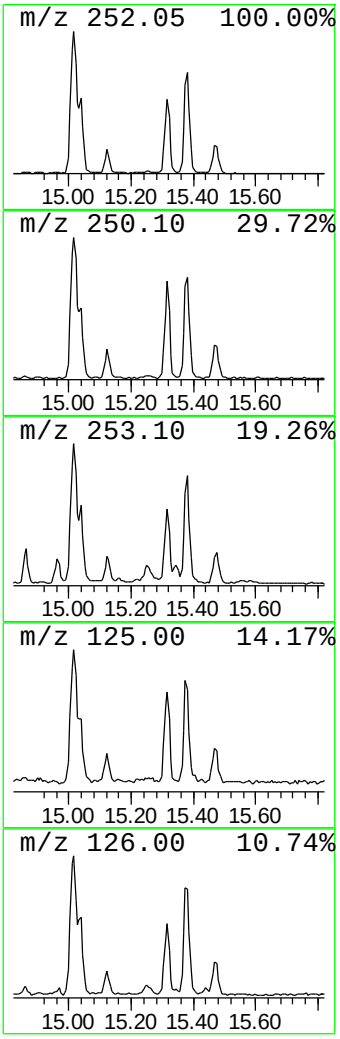
Peak Number 15 Perylene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.32	10.86 ng	316213	Perylene-d12	15.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	99
2	Benzo[a]pyrene	252	C20H12	000050-32-8	96
3	Benzo[e]pyrene	252	C20H12	000192-97-2	94
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93





Tentatively Identified Compound (LSC) summary

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Data File : BF101609.D
Acq On : 21 Dec 2017 16:17
Operator : SJ/JU
Sample : I6988-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT4008-RT3867-RT3075

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.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...	5.02	24.9	ng	1081450	1	6.80	867751	20.0
unknown6.57	6.57	85.4	ng	3705770	1	6.80	867751	20.0
Hexadecane	9.75	2.3	ng	112967	3	9.83	963655	20.0
Tridecane	10.25	2.8	ng	136449	3	9.83	963655	20.0
Pentadecane	10.72	3.4	ng	145305	4	11.32	856881	20.0
Phenanthrene, 2-m...	11.83	3.3	ng	141849	4	11.32	856881	20.0
4H-Cyclopenta[def...	11.94	4.7	ng	202285	4	11.32	856881	20.0
9,10-Dimethylanth...	12.37	2.0	ng	86490	4	11.32	856881	20.0
Cyclopenta(def)ph...	12.47	2.6	ng	111820	4	11.32	856881	20.0
Pyrene, 2-methyl-	13.10	2.3	ng	196023	5	13.97	1731340	20.0
1-Heneicosyl formate	13.79	3.3	ng	289265	5	13.97	1731340	20.0
Benzo[e]pyrene	15.12	3.0	ng	86514	6	15.44	582588	20.0
Perylene	15.32	10.9	ng	316213	6	15.44	582588	20.0