LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG060916\
Data File : BG022269.D
Acq On : 9 Jun 2016 15:13
Operator : UM/SJ
Sample : H3402-16 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : SS-49

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_G\METHODS\8270-BG060616.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	2.986	19	25	43	rVB	799444	1358394	78.78%	7.325%
2	5.189	394	400	411	rVB	12874	24215	1.40%	0.131%
3	5.665	474	481	501	rBV	214973	421773	24.46%	2.274%
4	7.281	748	756	769	rBV	240489	483574	28.05%	2.608%
5	7.651	810	819	827	rBV	267546	527257	30.58%	2.843%
6	8.115	890	898	907	rBV	126469	247959	14.38%	1.337%
7	8.444	946	954	967	rBV	212553	424030	24.59%	2.287%
8	9.290	1090	1098	1112	rBV	138293	299461	17.37%	1.615%
9	10.935	1370	1378	1385	rBV	210954	430856	24.99%	2.323%
10	12.586	1652	1659	1667	rBV2	10692	22018	1.28%	0.119%
11	13.368	1784	1792	1806	rBV	540104	910304	52.79%	4.909%
12	14.073	1904	1912	1916	rBV4	8748	18470	1.07%	0.100%
13	14.190	1924	1932	1939	rVB	60703	99375	5.76%	0.536%
14	14.749	2018	2027	2033	rBV2	339366	607483	35.23%	3.276%
15	14.813	2033	2038	2044	rVB	50179	86599	5.02%	0.467%
16	15.142	2084	2094	2101	rVV2	23456	49361	2.86%	0.266%
17	15.794	2198	2205	2214	rBV2	45452	84943	4.93%	0.458%
18	16.088	2249	2255	2261	rVB2	12082	23474	1.36%	0.127%
19	16.235	2273	2280	2292	rBV	307733	534705	31.01%	2.883%
20	16.934	2394	2399	2405	rVB8	7905	17584	1.02%	0.095%
21	17.017	2405	2413	2417	rBV8	8917	25072	1.45%	0.135%
22	17.058	2417	2420	2428	rVB8	10838	18550	1.08%	0.100%
23	17.146	2430	2435	2442	rBV4	19518	34404	2.00%	0.186%
24	17.216	2442	2447	2454	rBV5	22376	49286	2.86%	0.266%
25	17.310	2459	2463	2471	rVB2	29347	51952	3.01%	0.280%
26	17.492	2487	2494	2497	rBV	382444	612962	35.55%	3.305%
27	17.534	2497	2501	2508	rVV	501568	843103	48.90%	4.546%
28	17.628	2511	2517	2523	rVV	111097	205647	11.93%	1.109%
29	17.680	2523	2526	2532	rVB3	14494	27006	1.57%	0.146%
30	17.898	2554	2563	2569	rBV2	43373	98470	5.71%	0.531%
31	17.951	2569	2572	2577	rVV6	16989	23314	1.35%	0.126%
32	18.004	2577	2581	2585	rVV2	10439	17346	1.01%	0.094%
33	18.068	2587	2592	2599	rBV5	13030	27269	1.58%	0.147%
34	18.362	2637	2642	2646	rBV	61852	100678	5.84%	0.543%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG060916\
Data File : BG022269.D
Acq On : 9 Jun 2016 15:13
Operator : UM/SJ
Sample : H3402-16 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : SS-49

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_G\METHODS\8270-BG060616.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	18.415	2646	2651	2656	rVB	84518	139952	8.12%	0.755%
36	18.491	2660	2664	2668	rBV	30819	44672	2.59%	0.241%
37	18.562	2669	2676	2680	rBV2	102149	209617	12.16%	1.130%
38	18.856	2721	2726	2730	rBV	48416	68940	4.00%	0.372%
39	18.903	2730	2734	2740	rVB3	30707	50710	2.94%	0.273%
40	19.096	2761	2767	2772	rBV6	22199	43869	2.54%	0.237%
41	19.143	2772	2775	2779	rBV2	15871	22630	1.31%	0.122%
42	19.267	2791	2796	2801	rBV2	45143	84984	4.93%	0.458%
43	19.414	2817	2821	2827	rBV2	32796	61834	3.59%	0.333%
44	19.537	2835	2842	2848	rBV	778725	1177701	68.30%	6.351%
45	19.625	2855	2857	2863	rVB3	17781	24880	1.44%	0.134%
46	19.901	2892	2904	2910	rBV	688194	1254997	72.79%	6.767%
47	19.966	2912	2915	2920	rVB3	31439	45856	2.66%	0.247%
48	20.084	2929	2935	2940	rBV2	647737	979264	56.79%	5.280%
49	20.225	2953	2959	2965	rVB4	46603	105620	6.13%	0.570%
50	20.383	2983	2986	2991	rVB2	94817	142835	8.28%	0.770%
51	20.483	2999	3003	3007	rBV2	74565	109697	6.36%	0.592%
52	20.542	3010	3013	3017	rVB	50478	77765	4.51%	0.419%
53	20.683	3033	3037	3041	rBV2	46938	75513	4.38%	0.407%
54	20.724	3042	3044	3050	rVB3	36297	50766	2.94%	0.274%
55	21.153	3114	3117	3124	rVB3	48854	75161	4.36%	0.405%
56	21.382	3152	3156	3160	rVB3	62368	106284	6.16%	0.573%
57	21.435	3162	3165	3171	rVB2	44319	71549	4.15%	0.386%
58	21.764	3212	3221	3227	rBV2	462536	1292342	74.95%	6.969%
59	21.817	3227	3230	3242	rVB	264388	470701	27.30%	2.538%
60	21.970	3253	3256	3264	rVB2	46949	83312	4.83%	0.449%
61	22.181	3287	3292	3299	rVB5	99501	187766	10.89%	1.012%
62	24.061	3598	3612	3624	rVB3	500882	1724234	100.00%	9.298%
63	24.766	3726	3732	3744	rVB2	88247	263837	15.30%	1.423%
64	24.913	3749	3757	3770	rVV2	122409	404221	23.44%	2.180%
65	25.078	3778	3785	3792	rVB	110931	286527	16.62%	1.545%

Sum of corrected areas: 18544930

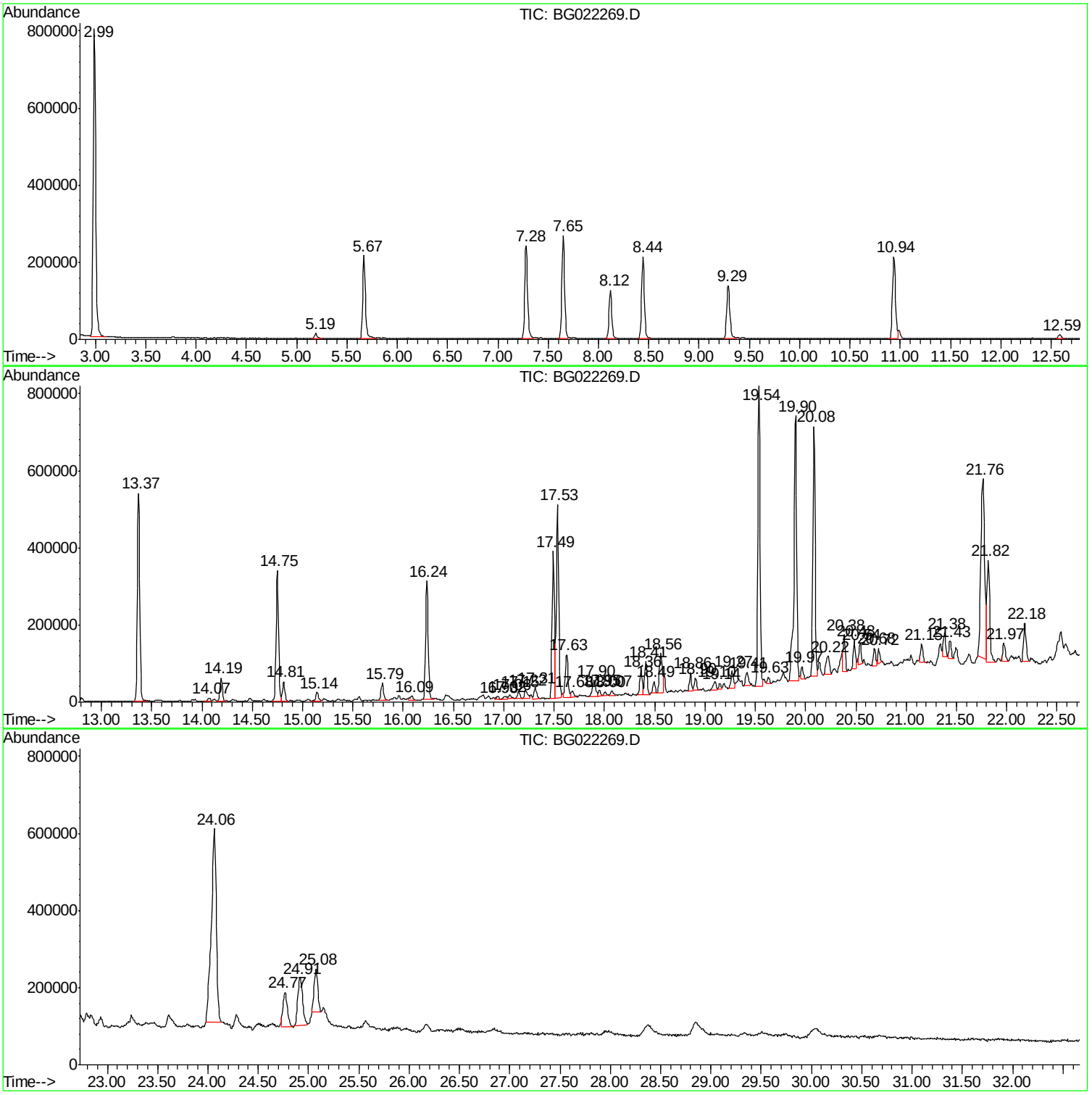
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA G\DATA\BG060916\
Data File : BG022269.D
Acq On : 9 Jun 2016 15:13
Operator : UM/SJ
Sample : H3402-16 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : SS-49

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\HPCHEM1\BNA G\DATA\BG060916\
Data File : BG022269.D
Acq On : 9 Jun 2016 15:13
Operator : UM/SJ
Sample : H3402-16 2X
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

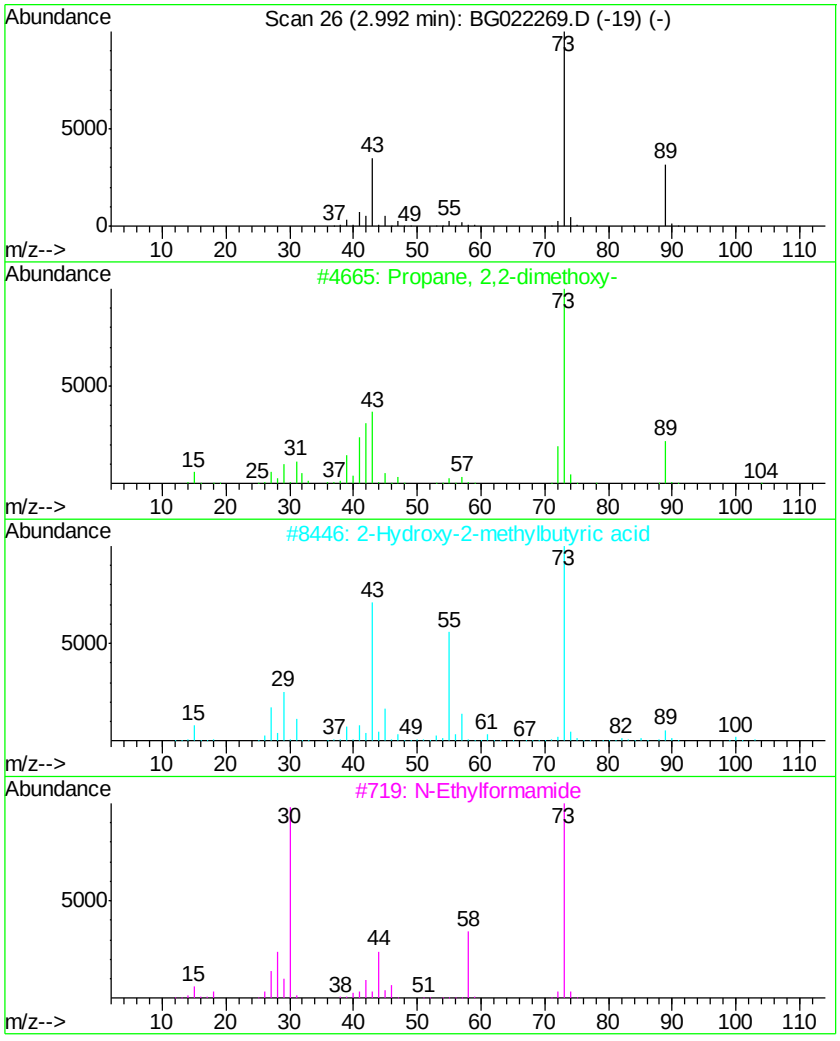
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

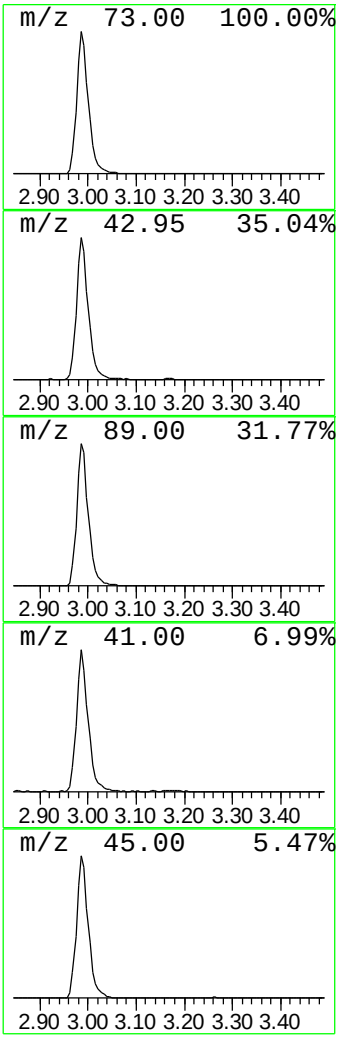
****

Peak Number 1 unknown2.99 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.99	109.57 ng	1358390	1,4-Dichlorobenzene-d4	8.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane, 2,2-dimethoxy-	104	C5H12O2	000077-76-9	45
2	2-Hydroxy-2-methylbutyric acid	118	C5H10O3	003739-30-8	9
3	N-Ethylformamide	73	C3H7NO	000627-45-2	7
4	Methane, isothiocyanato-	73	C2H3NS	000556-61-6	7
5	1,3-Dioxolane, 2-pentadecyl-	284	C18H36O2	004360-57-0	4





Data Path : Z:\HPCHEM1\BNA G\DATA\BG060916\
Data File : BG022269.D
Acq On : 9 Jun 2016 15:13
Operator : UM/SJ
Sample : H3402-16 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : SS-49

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

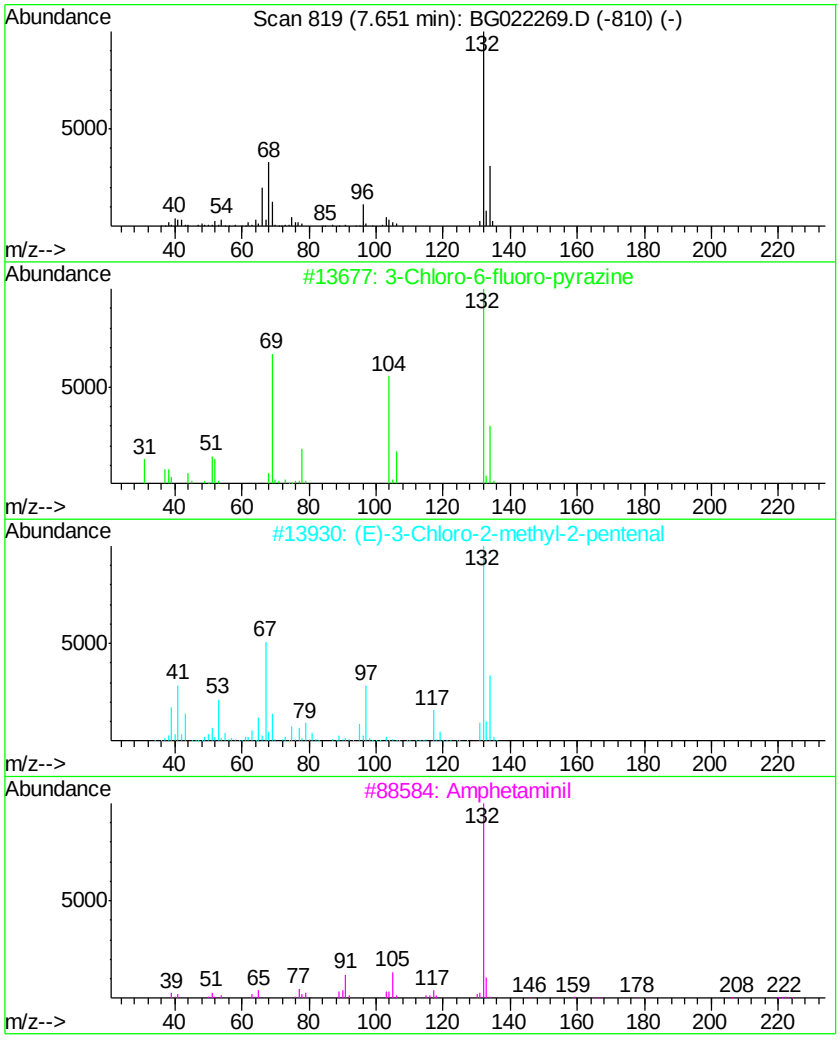
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

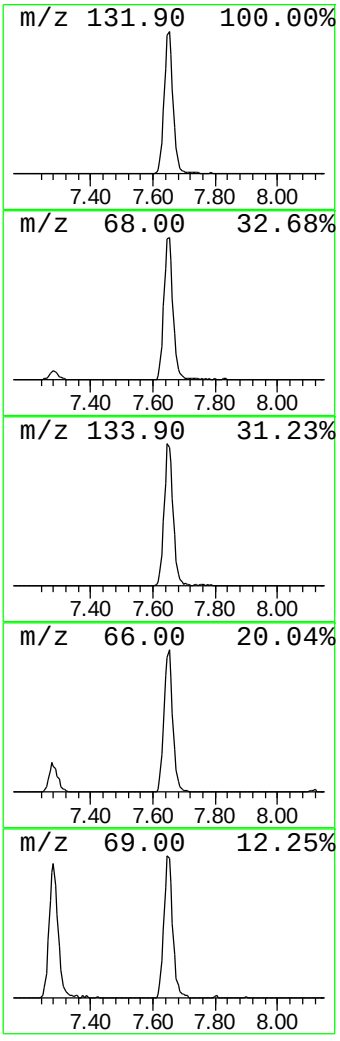
****

Peak Number 2 unknown7.65 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.65	42.53 ng	527257	1,4-Dichlorobenzene-d4	8.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	25
3	Amphetaminil	250	C17H18N2	017590-01-1	12
4	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9
5	Xenon	132	Xe	007440-63-3	9





Data Path : Z:\HPCHEM1\BNA G\DATA\BG060916\
Data File : BG022269.D
Acq On : 9 Jun 2016 15:13
Operator : UM/SJ
Sample : H3402-16 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : SS-49

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

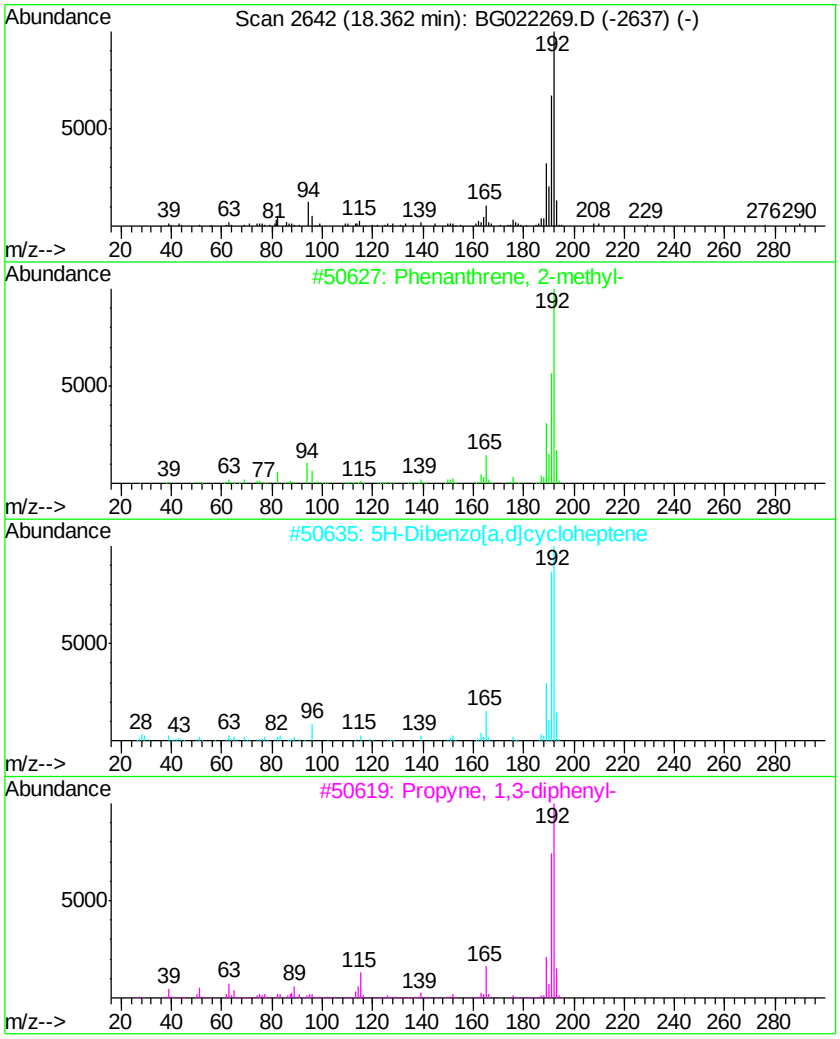
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

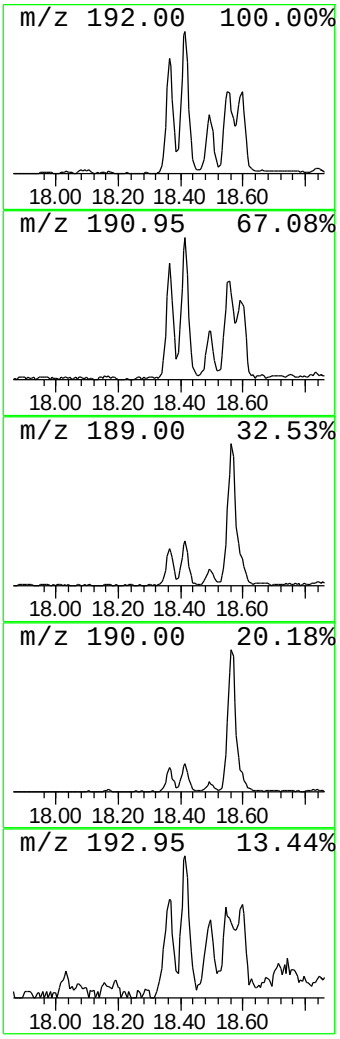
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.36	3.28 ng	100678	Phenanthrene-d10	17.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	81
2	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	76
3	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	70
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	64
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	64





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG060916\
Data File : BG022269.D
Acq On : 9 Jun 2016 15:13
Operator : UM/SJ
Sample : H3402-16 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : SS-49

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

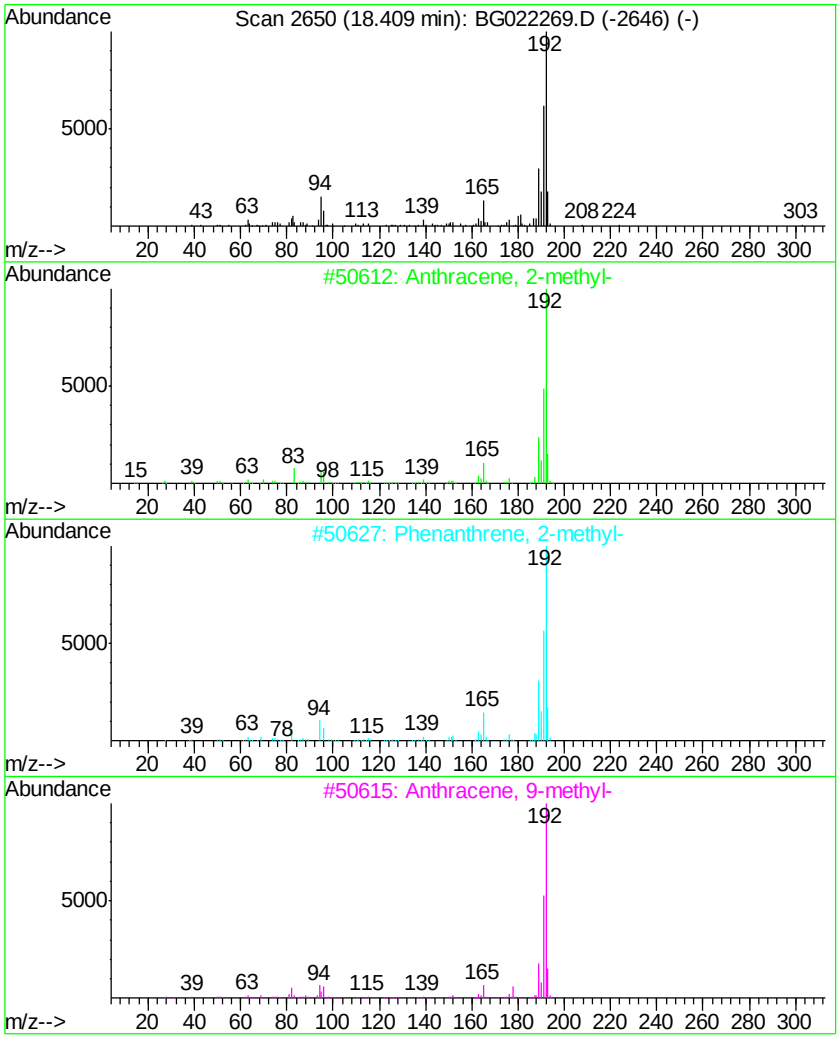
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

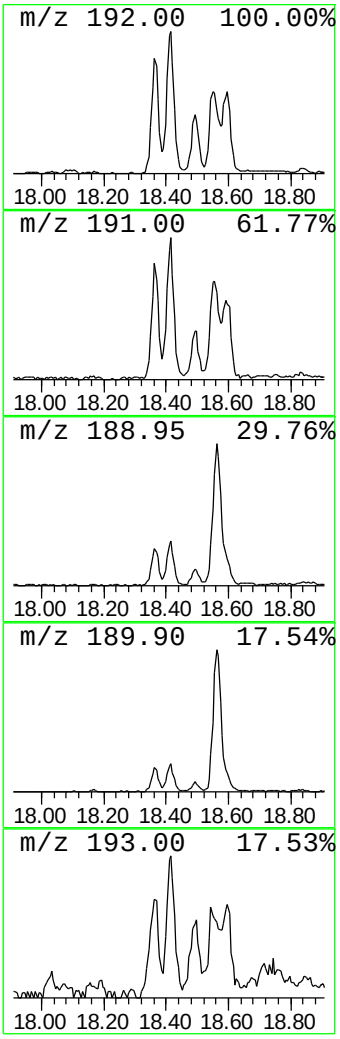
****

Peak Number 5 Anthracene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.41	4.57 ng	139952	Phenanthrene-d10	17.49

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	95
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	89





Data Path : Z:\HPCHEM1\BNA G\DATA\BG060916\
Data File : BG022269.D
Acq On : 9 Jun 2016 15:13
Operator : UM/SJ
Sample : H3402-16 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : SS-49

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

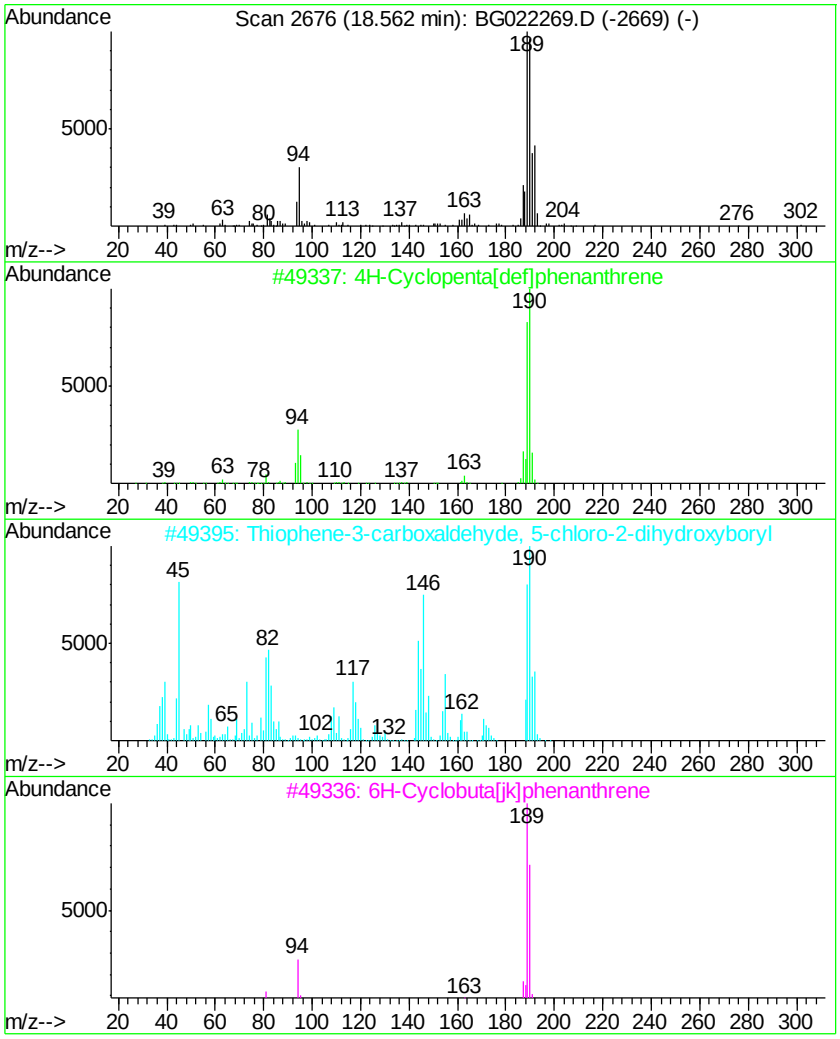
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

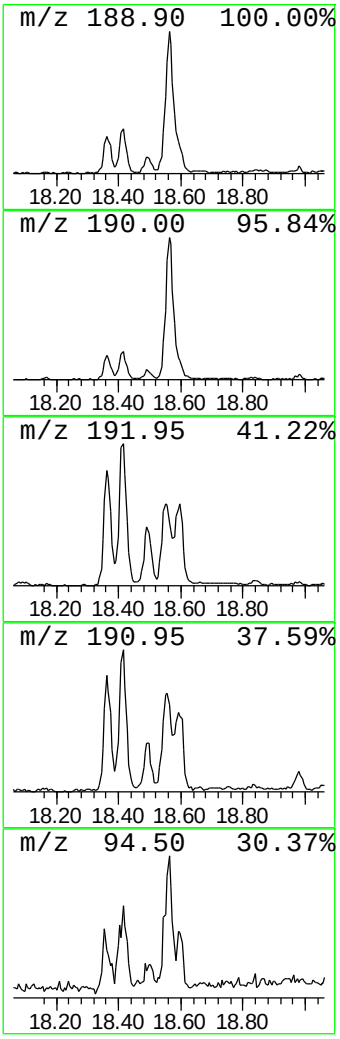
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.56	6.84 ng	209617	Phenanthrene-d10	17.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	64
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	59
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	36
5	Pyrimidine, 2-chloro-5-phenyl-	190	C10H7ClN2	022536-62-5	23





Data Path : Z:\HPCHEM1\BNA G\DATA\BG060916\
Data File : BG022269.D
Acq On : 9 Jun 2016 15:13
Operator : UM/SJ
Sample : H3402-16 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : SS-49

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

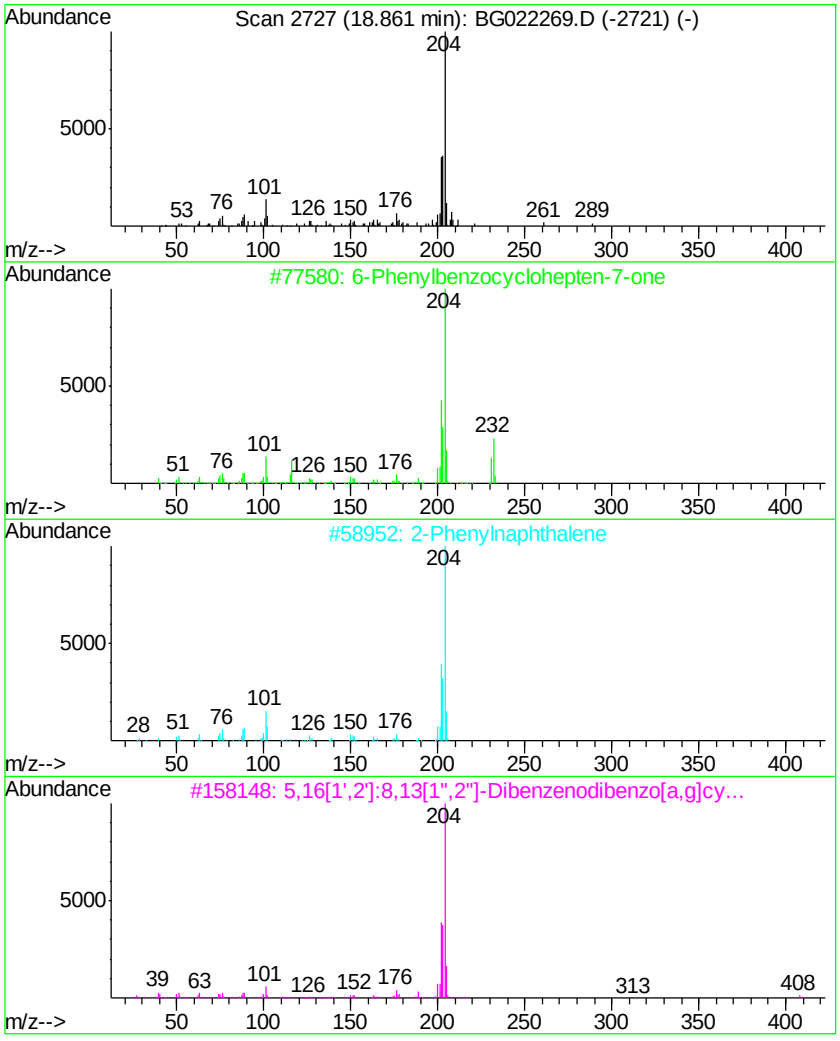
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

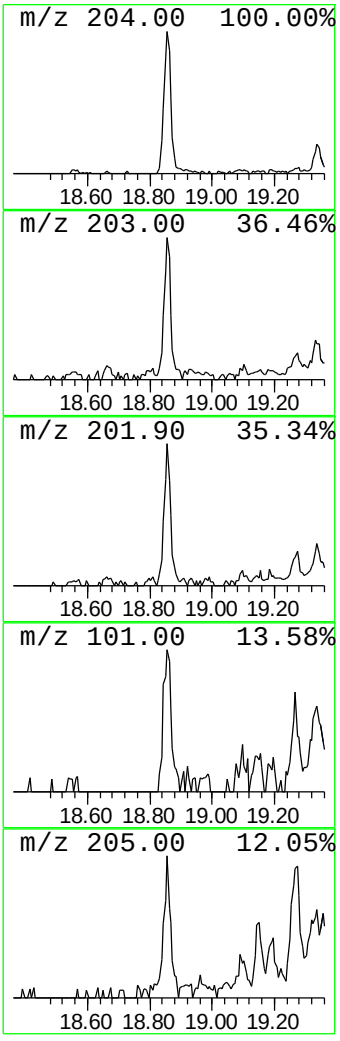
****

Peak Number 7 6-Phenylbenzocyclohepten-7-one Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.86	2.25 ng	68940	Phenanthrene-d10	17.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	86
2	2-Phenylnaphthalene	204	C16H12	035465-71-5	83
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	72
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	70
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	64





Data Path : Z:\HPCHEM1\BNA G\DATA\BG060916\
Data File : BG022269.D
Acq On : 9 Jun 2016 15:13
Operator : UM/SJ
Sample : H3402-16 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : SS-49

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

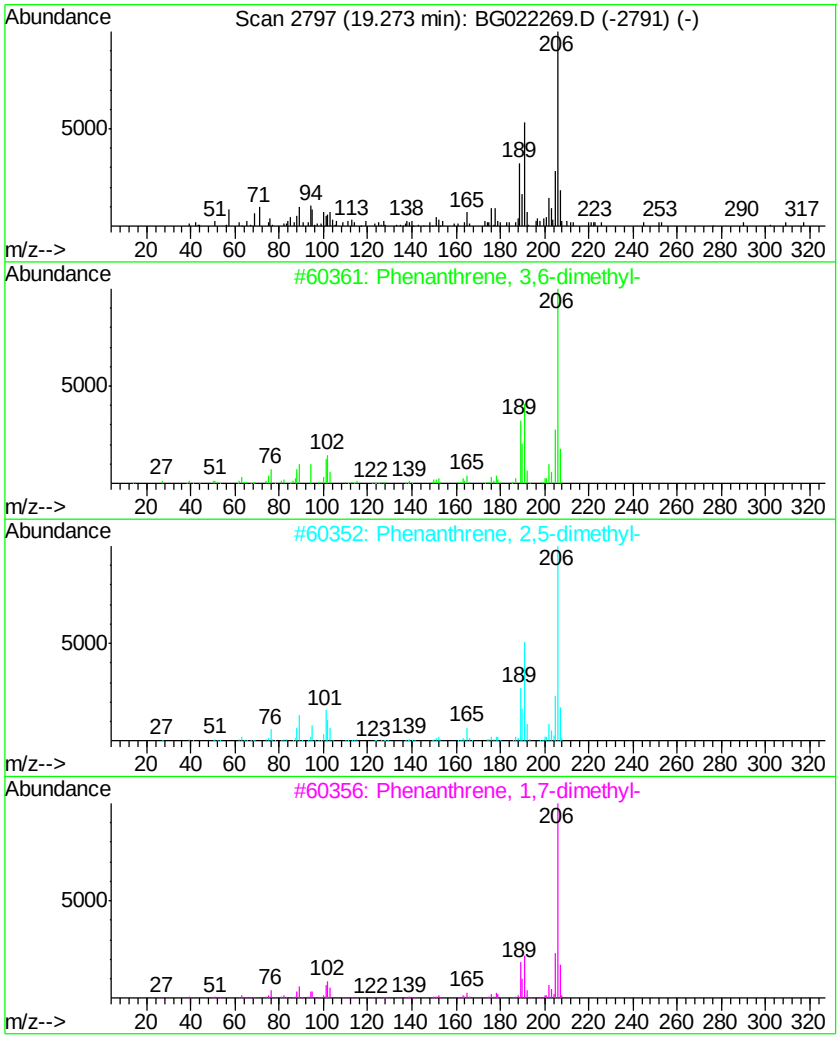
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

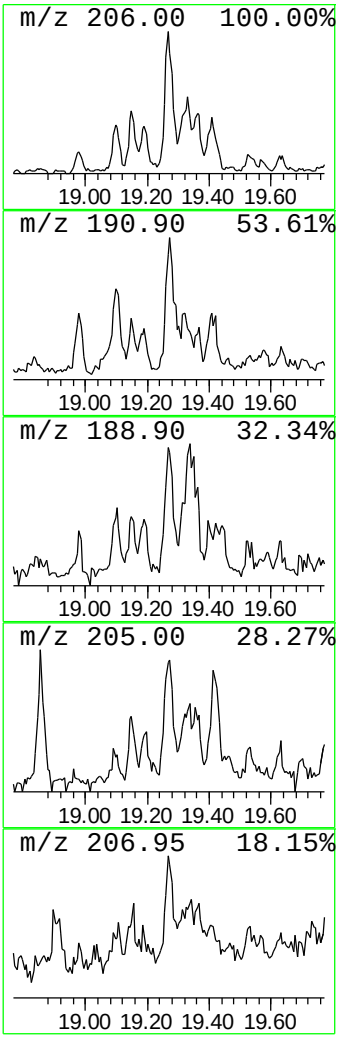
****

Peak Number 8 Phenanthrene, 3,6-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.27	2.77 ng	84984	Phenanthrene-d10	17.49

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, 1,7-dimethyl-	206	C16H14	000483-87-4	93
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
5	di-p-Tolylacetylene	206	C16H14	002789-88-0	91





Data Path : Z:\HPCHEM1\BNA G\DATA\BG060916\
Data File : BG022269.D
Acq On : 9 Jun 2016 15:13
Operator : UM/SJ
Sample : H3402-16 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : SS-49

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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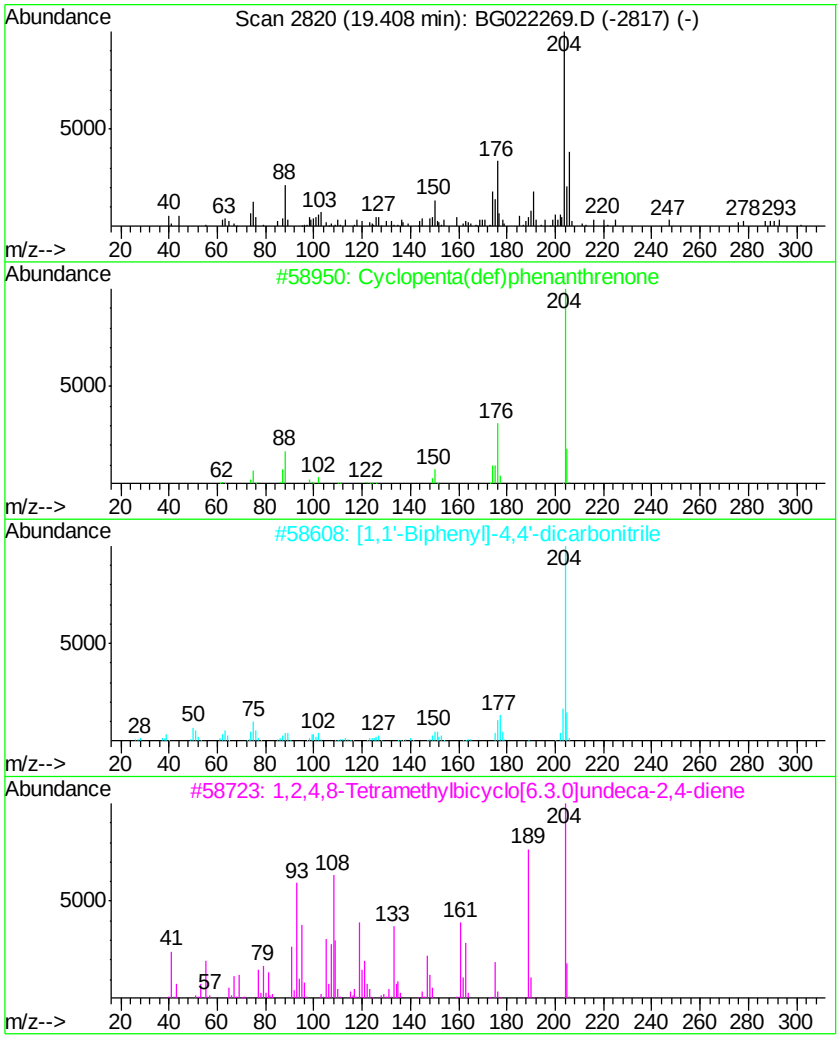
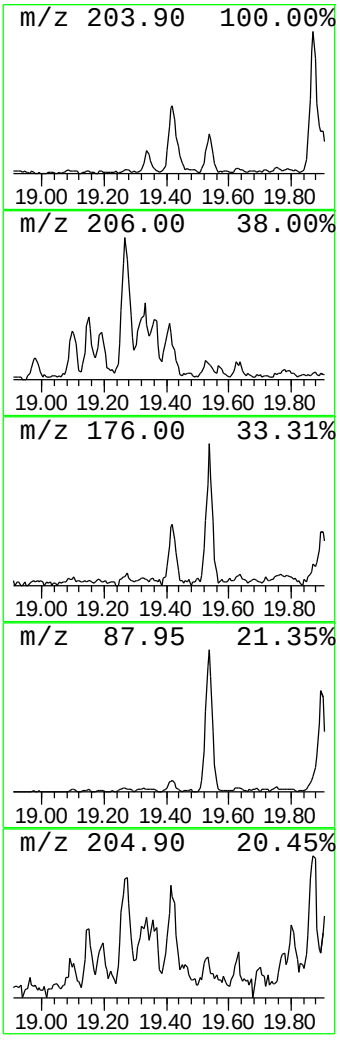
Peak Number 9 Cyclopenta(def)phenanthrenone Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.41	2.02 ng	61834	Phenanthrene-d10	17.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	90
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	53
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	53
4	Tricyclo[5.1.0.0(2,4)]octane, 5-...	247	C17H29N	1000063-59-3	50
5	Benzo[1,2-b:4,3-b']dithiophene, ...	204	C11H8S2	013640-86-3	47





Data Path : Z:\HPCHEM1\BNA G\DATA\BG060916\
Data File : BG022269.D
Acq On : 9 Jun 2016 15:13
Operator : UM/SJ
Sample : H3402-16 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : SS-49

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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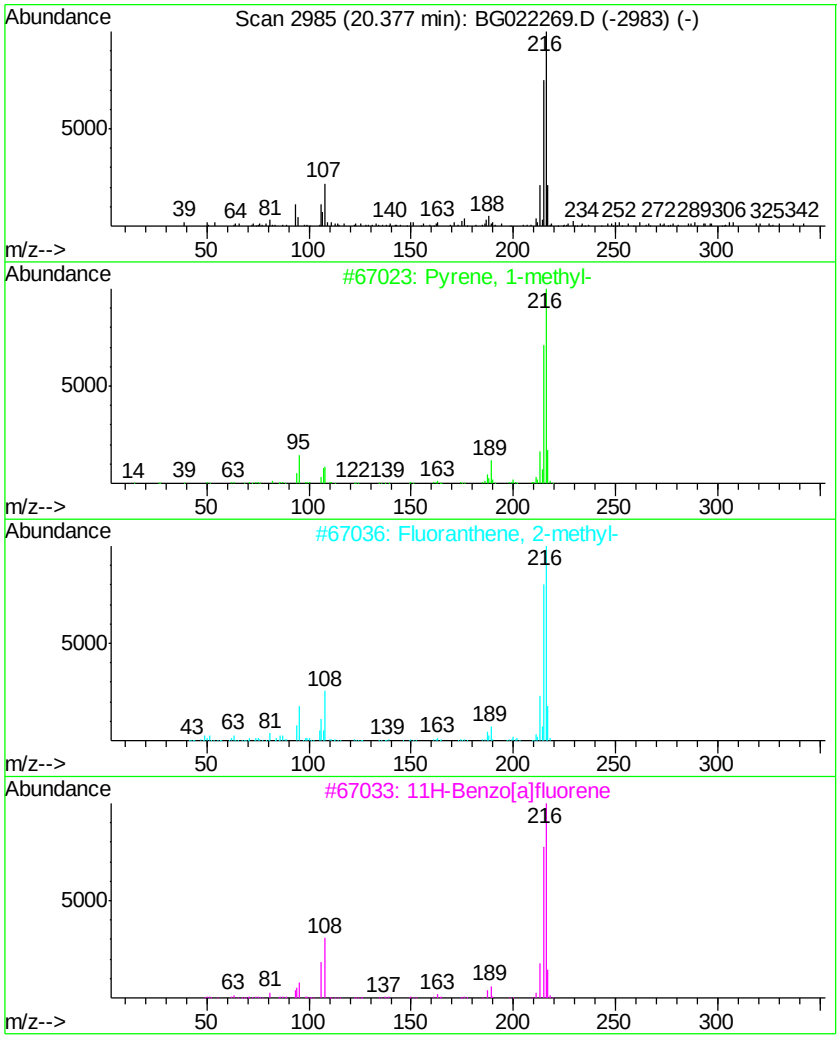
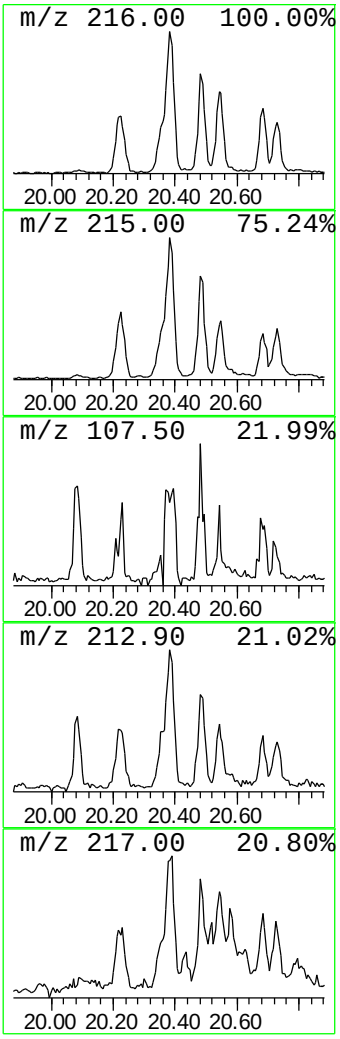
Peak Number 10 Pyrene, 1-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.38	2.21 ng	142835	Chrysene-d12	21.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	80
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	80
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	72
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	68
5	.beta.-Carboline, 1,2,3,4-tetrah...	260	C14H16N2O3	1000124-14-2	64





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Data File : BG022269.D
Acq On : 9 Jun 2016 15:13
Operator : UM/SJ
Sample : H3402-16 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : SS-49

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
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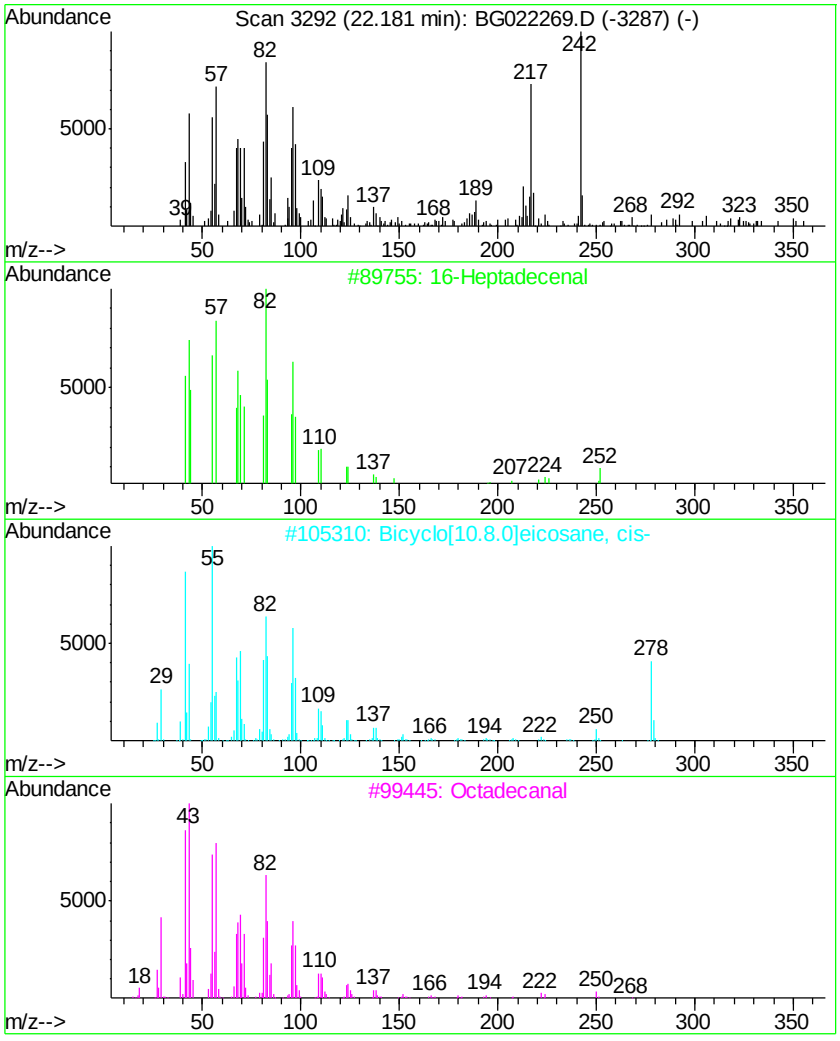
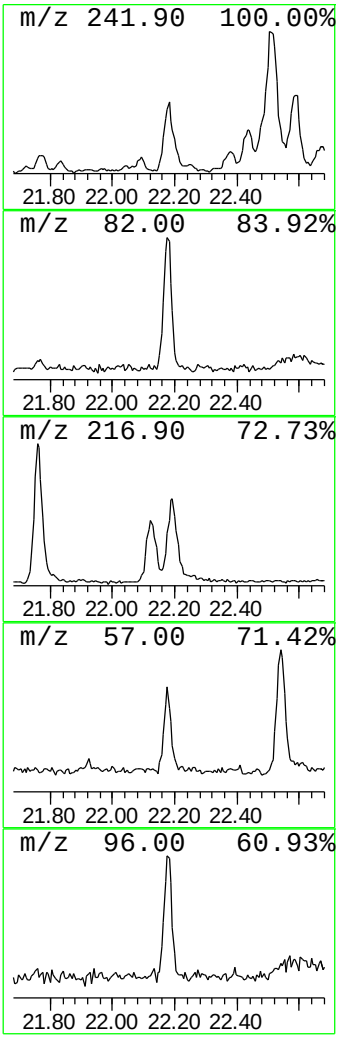
Peak Number 11 16-Heptadecenal Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.18	2.91 ng	187766	Chrysene-d12	21.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	16-Heptadecenal	252	C17H32O	1000144-57-9	70
2	Bicyclo[10.8.0]eicosane, cis-	278	C20H38	1000155-82-2	70
3	Octadecanal	268	C18H36O	000638-66-4	55
4	1,19-Eicosadiene	278	C20H38	014811-95-1	55
5	1,16-Hexadecanediol	258	C16H34O2	007735-42-4	49





Data Path : Z:\HPCHEM1\BNA G\DATA\BG060916\
Data File : BG022269.D
Acq On : 9 Jun 2016 15:13
Operator : UM/SJ
Sample : H3402-16 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : SS-49

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
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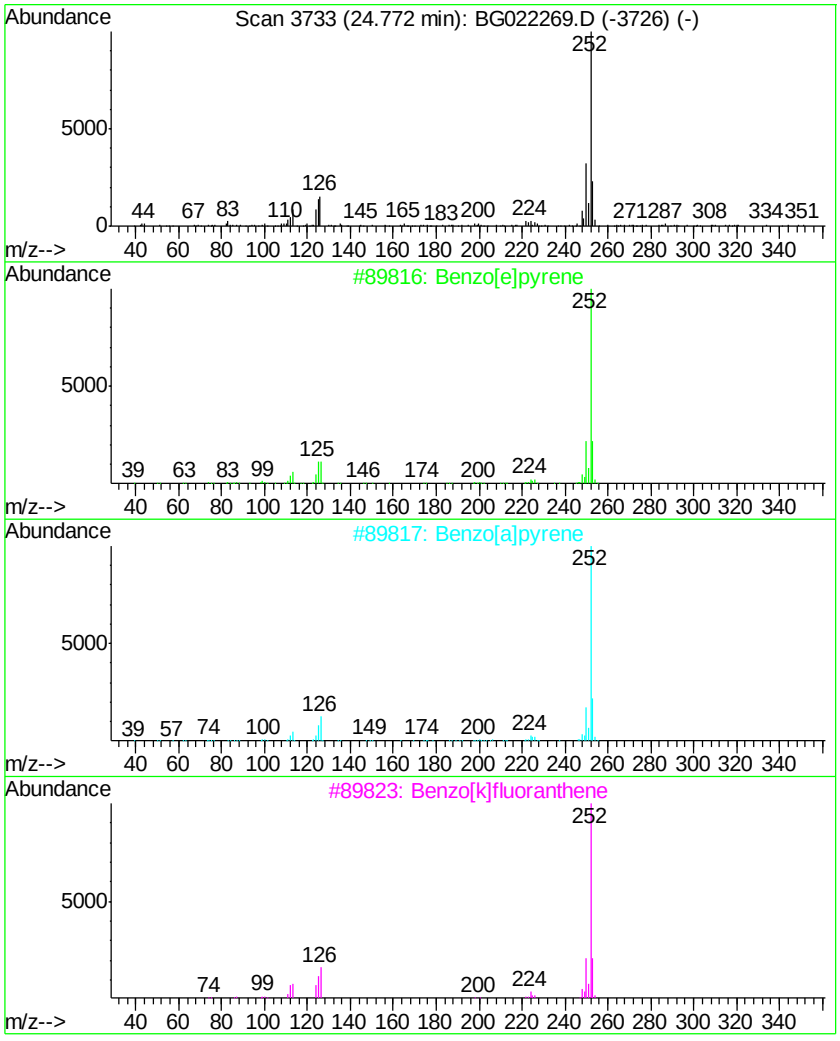
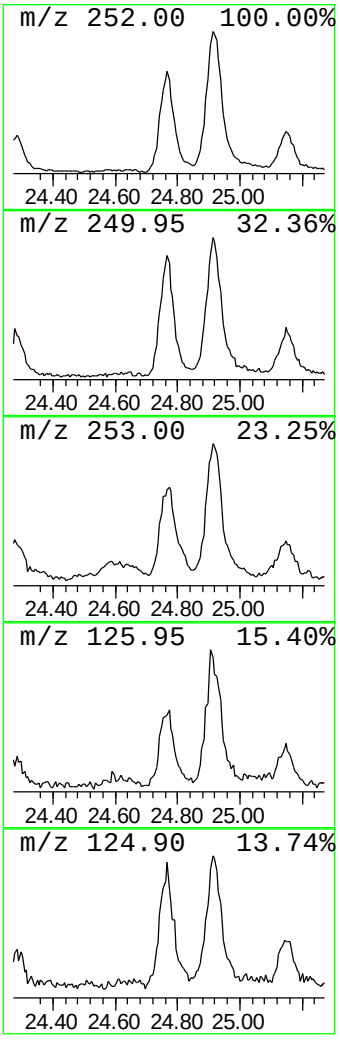
Peak Number 12 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.77	18.42 ng	263837	Perylene-d12	25.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	94
2	Benzo[a]pyrene	252	C20H12	000050-32-8	93
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
4	Perylene	252	C20H12	000198-55-0	91
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060916\
Data File : BG022269.D
Acq On : 9 Jun 2016 15:13
Operator : UM/SJ
Sample : H3402-16 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : SS-49

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown2.99	2.99	109.6	ng	1358390	1	8.12	247959	20.0
unknown7.65	7.65	42.5	ng	527257	1	8.12	247959	20.0
Phenanthrene, 2-m...	18.36	3.3	ng	100678	4	17.49	612962	20.0
Anthracene, 2-met...	18.41	4.6	ng	139952	4	17.49	612962	20.0
4H-Cyclopenta[def...	18.56	6.8	ng	209617	4	17.49	612962	20.0
6-Phenylbenzocycl...	18.86	2.3	ng	68940	4	17.49	612962	20.0
Phenanthrene, 3,6...	19.27	2.8	ng	84984	4	17.49	612962	20.0
Cyclopenta(def)ph...	19.41	2.0	ng	61834	4	17.49	612962	20.0
Pyrene, 1-methyl-	20.38	2.2	ng	142835	5	21.77	1292340	20.0
16-Heptadecenal	22.18	2.9	ng	187766	5	21.77	1292340	20.0
Benzo[e]pyrene	24.77	18.4	ng	263837	6	25.08	286527	20.0