LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP120219\
Data File : BP001140.D
Acq On : 02 Dec 2019 22:12
Operator : JU
Sample : K6054-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : RBR-50

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_P\METHODS\8270-BP112719.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	5.628	598	602	616	rVB	99564	143639	3.19%	0.274%
2	6.222	698	703	714	rBV	587668	722799	16.06%	1.378%
3	7.763	960	965	981	rVB	696320	800189	17.78%	1.526%
4	7.957	993	998	1010	rBV	624774	755624	16.79%	1.441%
5	8.328	1055	1061	1066	rBV	838072	942324	20.94%	1.797%
6	8.569	1095	1102	1107	rBV	502661	592583	13.17%	1.130%
7	9.204	1204	1210	1219	rBV	391581	464396	10.32%	0.886%
8	10.363	1396	1407	1411	rBV	1002568	1186427	26.36%	2.263%
9	10.399	1411	1413	1419	rVB	111847	110583	2.46%	0.211%
10	11.528	1600	1605	1610	rVB	87814	98436	2.19%	0.188%
11	11.687	1624	1632	1637	rBV	80310	93175	2.07%	0.178%
12	12.140	1702	1709	1716	rBV	705780	804878	17.88%	1.535%
13	12.557	1774	1780	1787	rBV3	31085	69211	1.54%	0.132%
14	12.681	1795	1801	1805	rBV	71424	100673	2.24%	0.192%
15	12.722	1805	1808	1812	rVB	40413	46781	1.04%	0.089%
16	12.810	1820	1823	1828	rVB	71577	77197	1.72%	0.147%
17	12.993	1847	1854	1862	rBV	157098	208976	4.64%	0.399%
18	13.228	1886	1894	1899	rBV	1072786	1313799	29.19%	2.505%
19	13.281	1899	1903	1907	rVB	246822	288752	6.42%	0.551%
20	13.563	1944	1951	1960	rBV	177892	258566	5.74%	0.493%
21	14.128	2043	2047	2054	rVB	294651	352259	7.83%	0.672%
22	14.398	2089	2093	2102	rVB	93097	139095	3.09%	0.265%
23	14.516	2104	2113	2124	rVV2	408760	656869	14.59%	1.253%
24	14.604	2124	2128	2135	rVB3	32994	47656	1.06%	0.091%
25	15.034	2195	2201	2204	rBV2	75896	126158	2.80%	0.241%
26	15.075	2204	2208	2214	rVB4	44908	75927	1.69%	0.145%
27	15.251	2235	2238	2241	rBV3	54233	73389	1.63%	0.140%
28	15.328	2246	2251	2255	rVB	151473	183421	4.08%	0.350%
29	15.422	2262	2267	2271	rBV	148632	202623	4.50%	0.386%
30	15.463	2271	2274	2278	rVB	162885	181554	4.03%	0.346%
31	15.628	2297	2302	2305	rBV	1068620	1369980	30.44%	2.613%
32	15.669	2305	2309	2313	rVV	3017181	3447243	76.59%	6.574%
33	15.739	2317	2321	2326	rVV	672006	751439	16.69%	1.433%
34	15.787	2326	2329	2332	rVV	44639	53106	1.18%	0.101%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP120219\
Data File : BP001140.D
Acq On : 02 Dec 2019 22:12
Operator : JU
Sample : K6054-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : RBR-50

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_P\METHODS\8270-BP112719.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	15.822	2332	2335	2339	rVB	38159	45566	1.01%	0.087%
36	15.945	2353	2356	2359	rBV	53851	56238	1.25%	0.107%
37	15.986	2359	2363	2369	rVB	248025	289389	6.43%	0.552%
38	16.098	2379	2382	2385	rVV2	67029	79932	1.78%	0.152%
39	16.134	2385	2388	2393	rVB2	74570	100090	2.22%	0.191%
40	16.251	2405	2408	2414	rVB	34361	53214	1.18%	0.101%
41	16.310	2414	2418	2423	rBV	44927	55371	1.23%	0.106%
42	16.381	2425	2430	2434	rVV	379090	471019	10.46%	0.898%
43	16.422	2434	2437	2444	rVB	569702	635475	14.12%	1.212%
44	16.486	2444	2448	2451	rBV	193642	237951	5.29%	0.454%
45	16.534	2452	2456	2460	rVV	618358	789618	17.54%	1.506%
46	16.575	2460	2463	2467	rVB	268960	314708	6.99%	0.600%
47	16.645	2471	2475	2478	rBV	43895	58486	1.30%	0.112%
48	16.681	2478	2481	2485	rVV2	48081	54526	1.21%	0.104%
49	16.822	2500	2505	2514	rVB2	346113	653102	14.51%	1.245%
50	17.022	2536	2539	2543	rBV	91531	116217	2.58%	0.222%
51	17.069	2543	2547	2549	rBV	87879	94678	2.10%	0.181%
52	17.098	2549	2552	2556	rVB2	79677	83515	1.86%	0.159%
53	17.169	2559	2564	2568	rBV	187145	272776	6.06%	0.520%
54	17.216	2568	2572	2575	rBV	106249	135793	3.02%	0.259%
55	17.263	2575	2580	2583	rBV2	120455	181224	4.03%	0.346%
56	17.381	2594	2600	2604	rBV	3832981	4501041	100.00%	8.584%
57	17.410	2604	2605	2610	rVB	91005	76120	1.69%	0.145%
58	17.463	2610	2614	2617	rBV3	96339	133185	2.96%	0.254%
59	17.504	2617	2621	2625	rVB2	103131	127013	2.82%	0.242%
60	17.575	2628	2633	2636	rBV2	155266	225140	5.00%	0.429%
61	17.686	2646	2652	2656	rBV2	3267193	4367451	97.03%	8.329%
62	17.757	2656	2664	2667	rVB	154776	218193	4.85%	0.416%
63	17.786	2667	2669	2675	rVB2	43569	56361	1.25%	0.107%
64	17.857	2677	2681	2684	rBV	217785	251035	5.58%	0.479%
65	17.910	2684	2690	2695	rVB2	717133	993589	22.07%	1.895%
66	17.969	2697	2700	2701	rBV	95489	109225	2.43%	0.208%
67	17.992	2701	2704	2707	rVB	161431	214250	4.76%	0.409%
68	18.104	2719	2723	2725	rBV2	180657	277027	6.15%	0.528%
69	18.133	2725	2728	2732	rVB2	452475	538414	11.96%	1.027%
70	18.222	2740	2743	2747	rBV2	258599	280142	6.22%	0.534%
71	18.269	2747	2751	2754	rBV2	408370	470345	10.45%	0.897%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP120219\
Data File : BP001140.D
Acq On : 02 Dec 2019 22:12
Operator : JU
Sample : K6054-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : RBR-50

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_P\METHODS\8270-BP112719.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	18.351	2762	2765	2768	rBV2	80673	93672	2.08%	0.179%
73	18.386	2768	2771	2775	rBV	188737	194492	4.32%	0.371%
74	18.428	2775	2778	2782	rBV	171126	206007	4.58%	0.393%
75	18.798	2837	2841	2848	rVB	404369	503297	11.18%	0.960%
76	18.939	2861	2865	2869	rBV2	359430	517290	11.49%	0.986%
77	18.986	2870	2873	2875	rBV	232349	235467	5.23%	0.449%
78	19.069	2884	2887	2895	rVB	437241	495895	11.02%	0.946%
79	19.269	2912	2921	2925	rBV2	2116755	3942934	87.60%	7.519%
80	19.310	2925	2928	2931	rVB	1625657	1654843	36.77%	3.156%
81	19.404	2941	2944	2948	rVB	199659	221685	4.93%	0.423%
82	19.516	2961	2963	2966	rVB	135488	104673	2.33%	0.200%
83	19.563	2969	2971	2976	rVB	170420	181016	4.02%	0.345%
84	19.610	2976	2979	2981	rBV2	87543	93439	2.08%	0.178%
85	19.775	3004	3007	3011	rVB	343529	373481	8.30%	0.712%
86	19.822	3012	3015	3018	rVB2	191769	209584	4.66%	0.400%
87	19.892	3025	3027	3030	rVB	119436	105429	2.34%	0.201%
88	20.569	3136	3142	3145	rBV	1383799	2358769	52.40%	4.498%
89	20.686	3160	3162	3166	rVB	235944	255940	5.69%	0.488%
90	20.916	3196	3201	3208	rVB	771929	1235670	27.45%	2.356%
91	20.986	3208	3213	3219	rVB	1129892	1552244	34.49%	2.960%
92	21.057	3220	3225	3228	rBV	906351	1311864	29.15%	2.502%
93	21.092	3228	3231	3235	rVB	258722	318697	7.08%	0.608%
94	22.710	3500	3506	3516	rVB2	484003	1160452	25.78%	2.213%
95	23.198	3584	3589	3600	rVB	340699	753069	16.73%	1.436%

Sum of corrected areas: 52437055

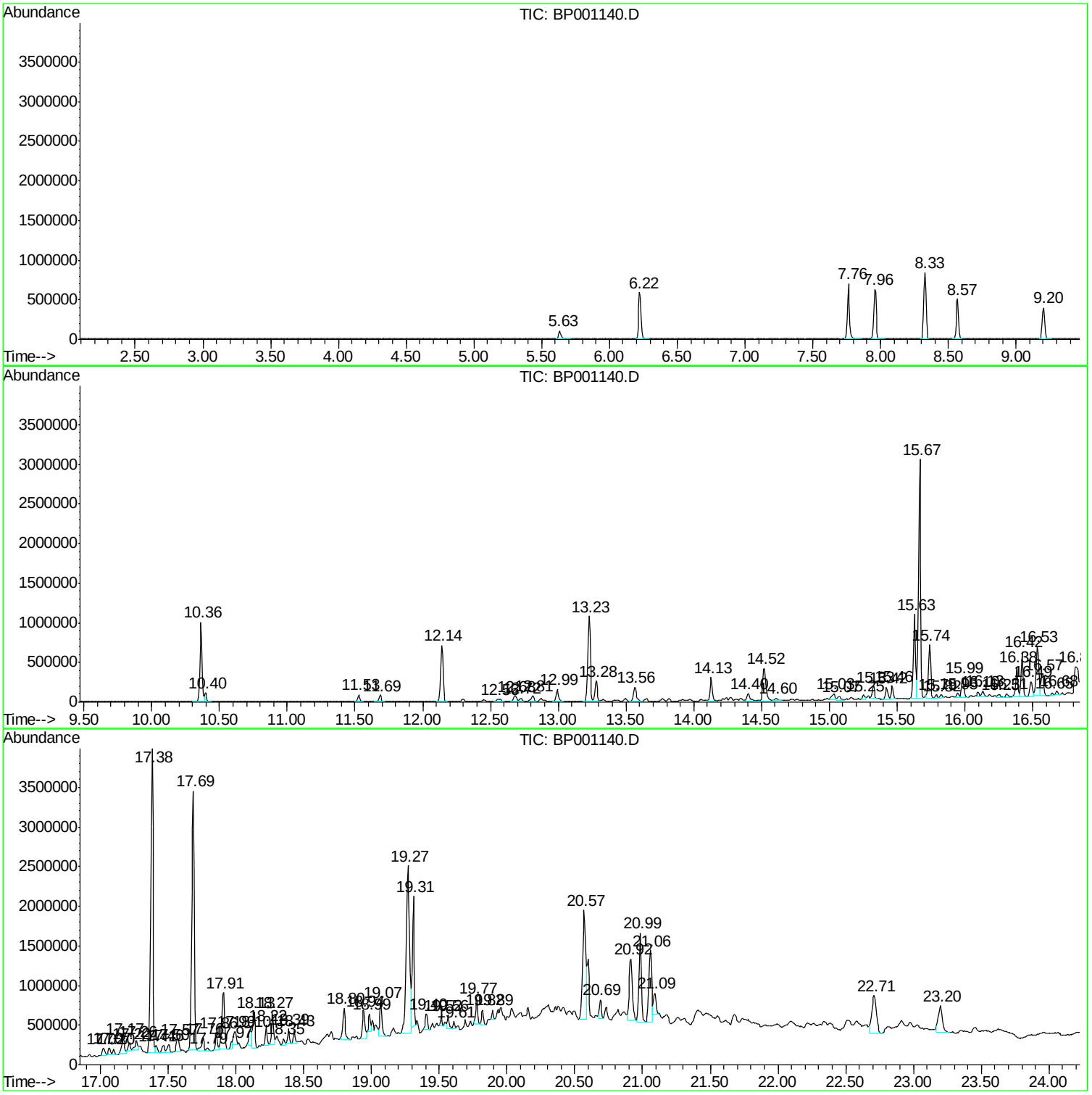
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP120219\
Data File : BP001140.D
Acq On : 02 Dec 2019 22:12
Operator : JU
Sample : K6054-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : RBR-50

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP112719.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 P\DATA\BP120219\
Data File : BP001140.D
Acq On : 02 Dec 2019 22:12
Operator : JU
Sample : K6054-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : RBR-50

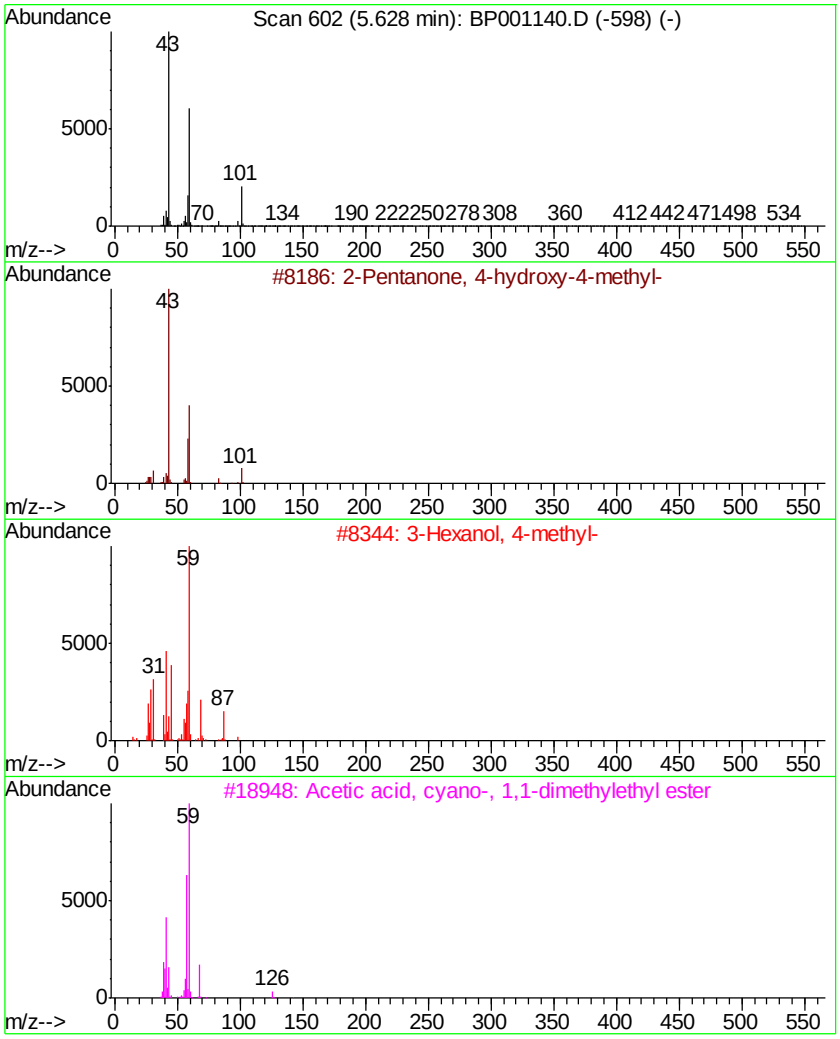
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP112719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

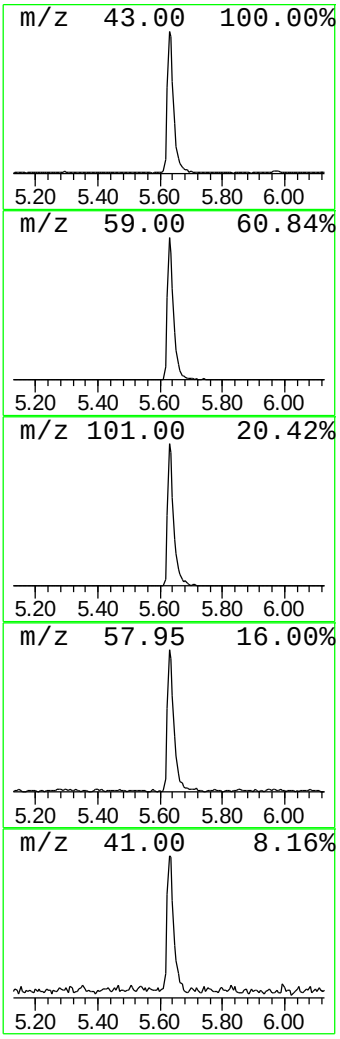
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.63	3.05 ng	143639	1,4-Dichlorobenzene-d4	8.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	28
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
4	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP120219\
Data File : BP001140.D
Acq On : 02 Dec 2019 22:12
Operator : JU
Sample : K6054-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : RBR-50

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP112719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

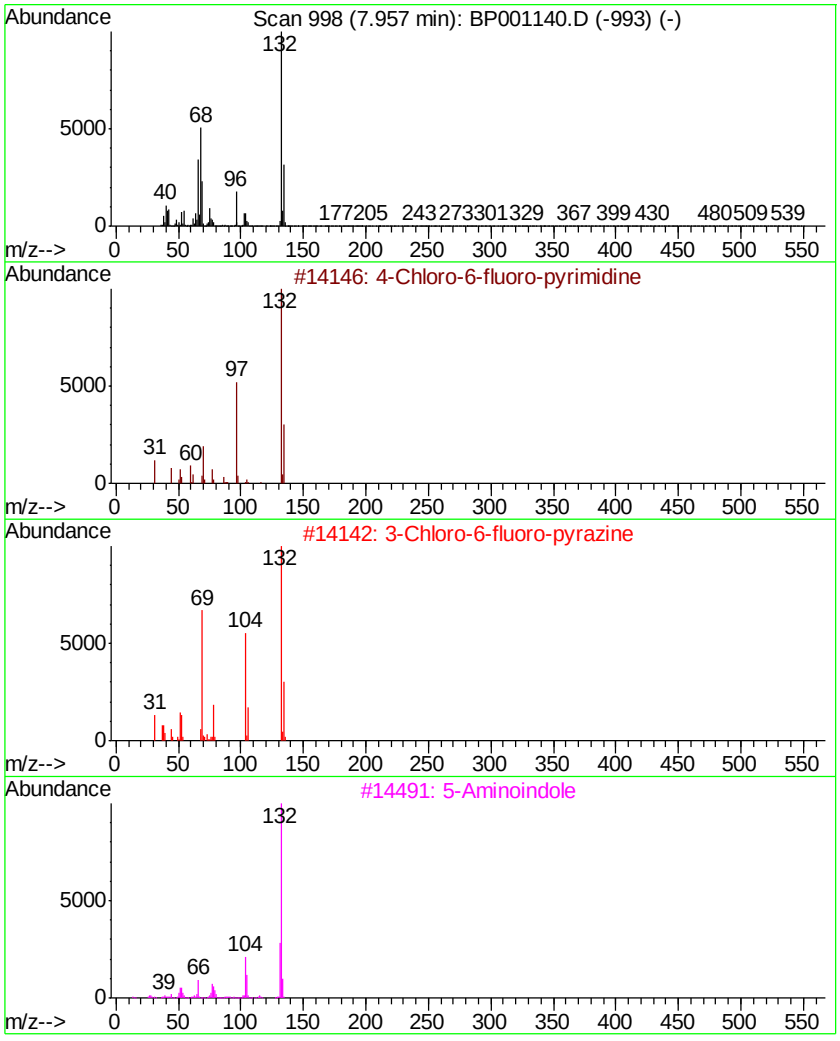
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

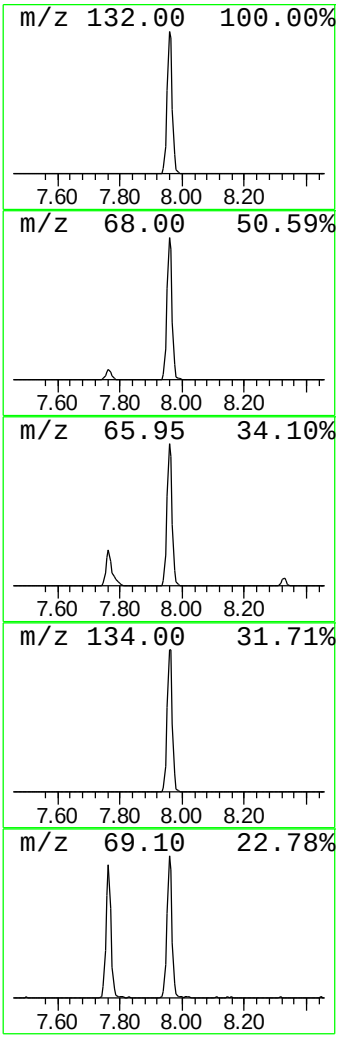
****

Peak Number 2 unknown7.96 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.96	16.04 ng	755624	1,4-Dichlorobenzene-d4	8.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	27
2	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
3	5-Aminoindole	132	C8H8N2	005192-03-0	22
4	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	22
5	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	12





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP120219\
Data File : BP001140.D
Acq On : 02 Dec 2019 22:12
Operator : JU
Sample : K6054-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : RBR-50

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP112719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

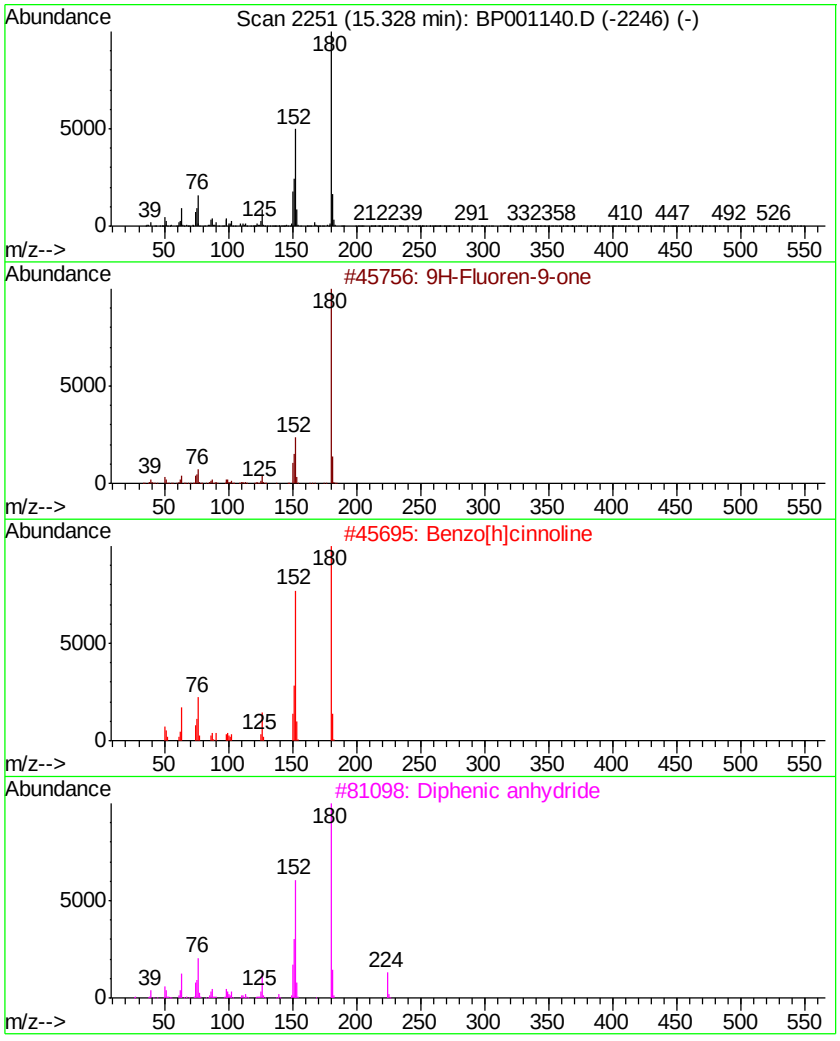
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

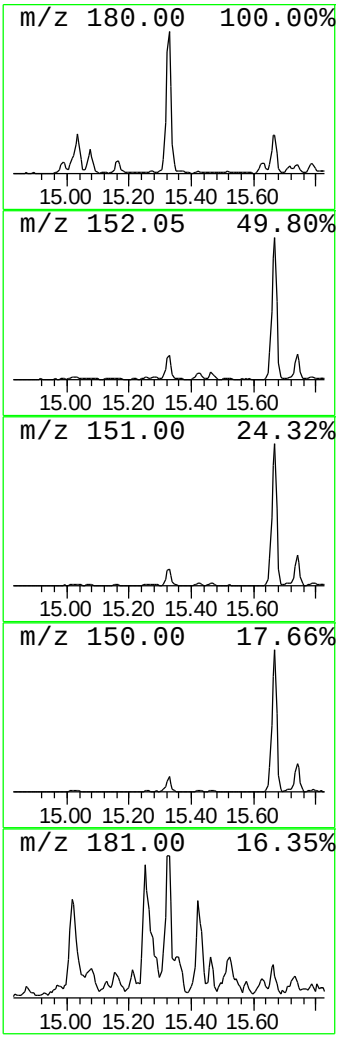
****

Peak Number 4 9H-Fluoren-9-one Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.33	2.68 ng	183421	Phenanthrene-d10	15.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	97
2	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	91
3	Diphenic anhydride	224	C14H8O3	006050-13-1	91
4	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	91
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	70





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP120219\
Data File : BP001140.D
Acq On : 02 Dec 2019 22:12
Operator : JU
Sample : K6054-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : RBR-50

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP112719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

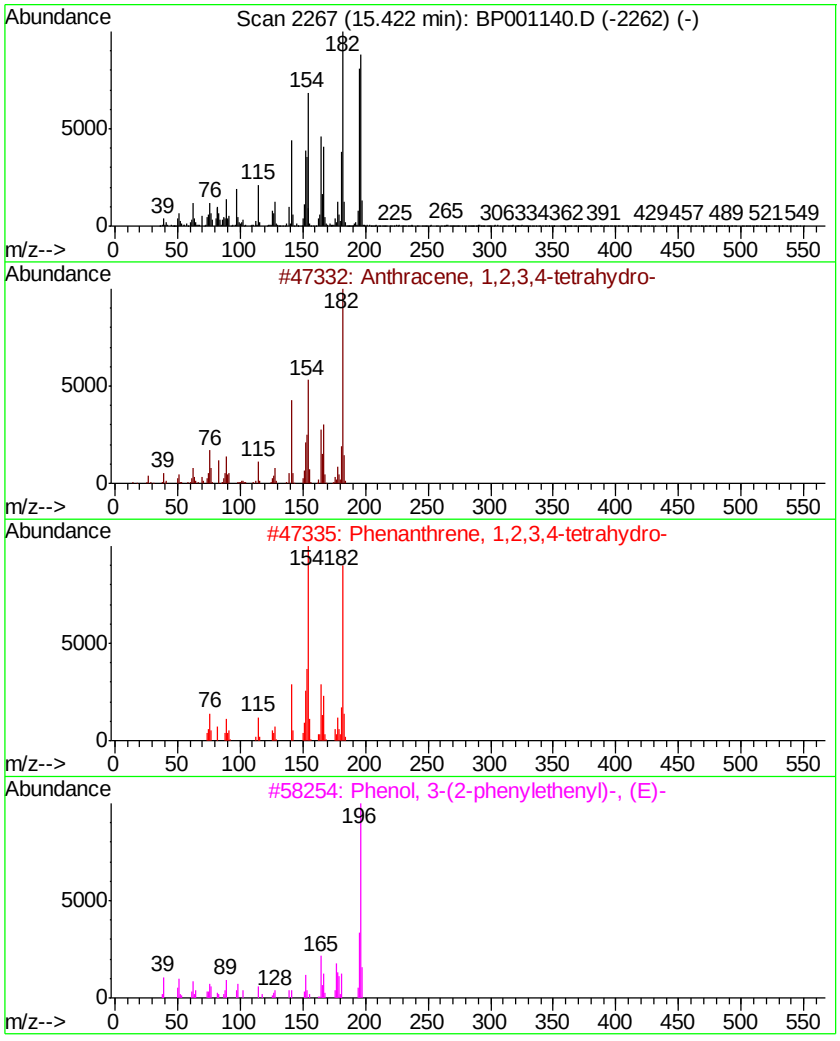
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

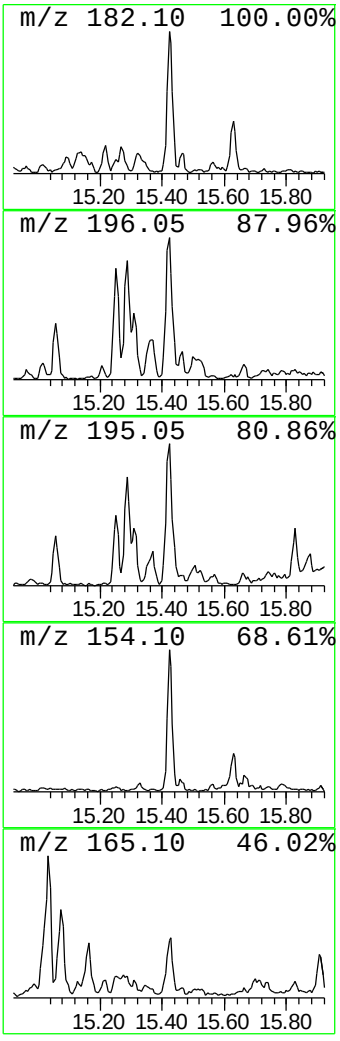
****

Peak Number 5 Anthracene, 1,2,3,4-tetrahy... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.42	2.96 ng	202623	Phenanthrene-d10	15.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	87
2	Phenanthrene, 1,2,3,4-tetrahydro-	182	C14H14	001013-08-7	42
3	Phenol, 3-(2-phenylethenyl)-, (E)-	196	C14H12O	017861-18-6	30
4	Dibenz[c,e]oxepin, 5,7-dihydro-	196	C14H12O	001136-22-7	30
5	2,3-Dihydro-1-oxo-1H-phenalene	182	C13H10O	000518-85-4	30





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP120219\
Data File : BP001140.D
Acq On : 02 Dec 2019 22:12
Operator : JU
Sample : K6054-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : RBR-50

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP112719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

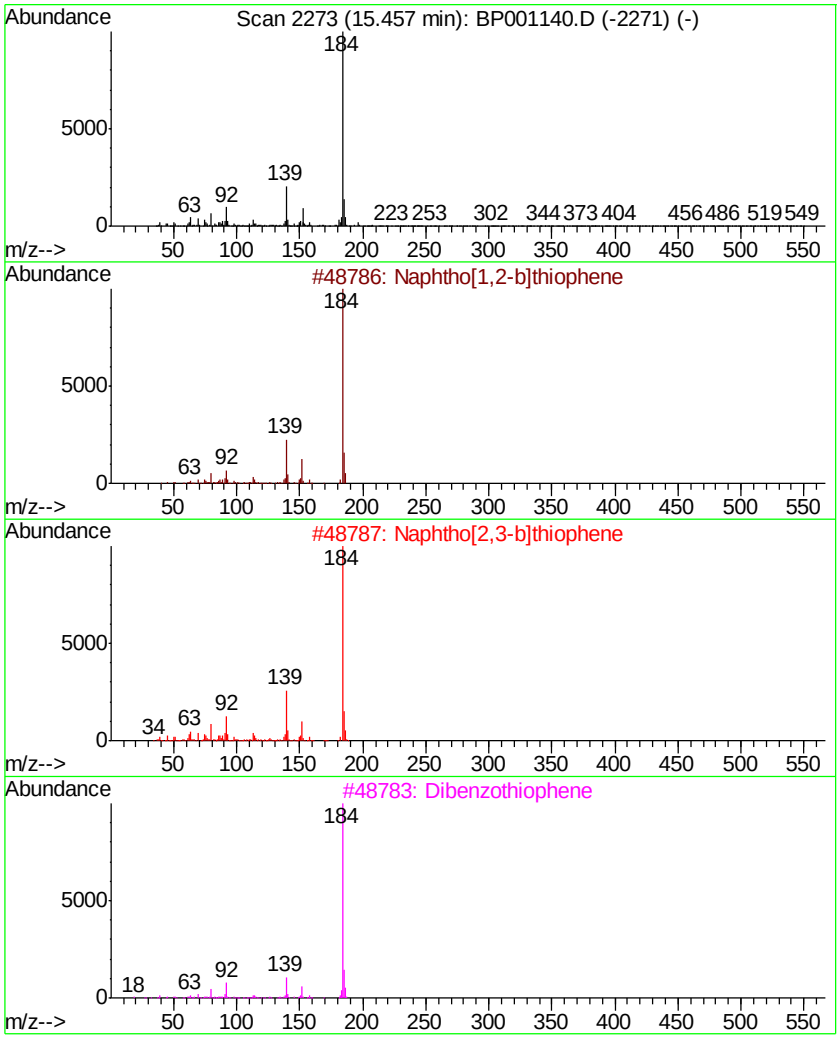
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

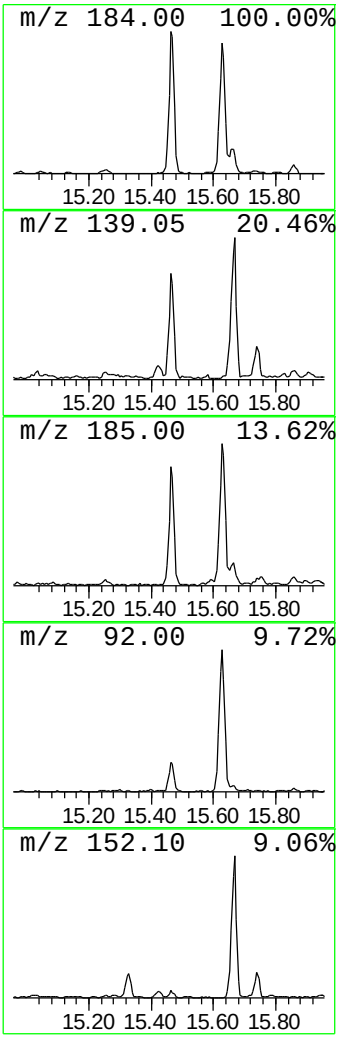
****

Peak Number 6 Naphtho[1,2-b]thiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.46	2.65 ng	181554	Phenanthrene-d10	15.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	97
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	97
3	Dibenzothiophene	184	C12H8S	000132-65-0	96
4	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





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Acq On : 02 Dec 2019 22:12
Operator : JU
Sample : K6054-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : RBR-50

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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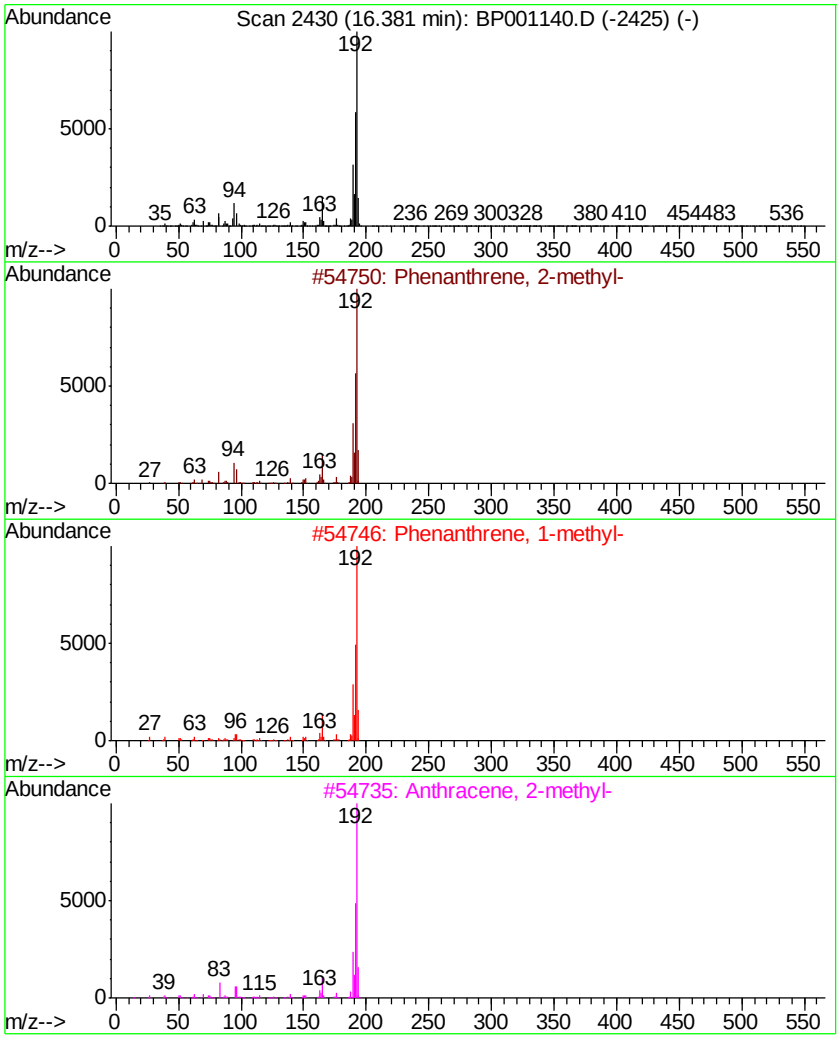
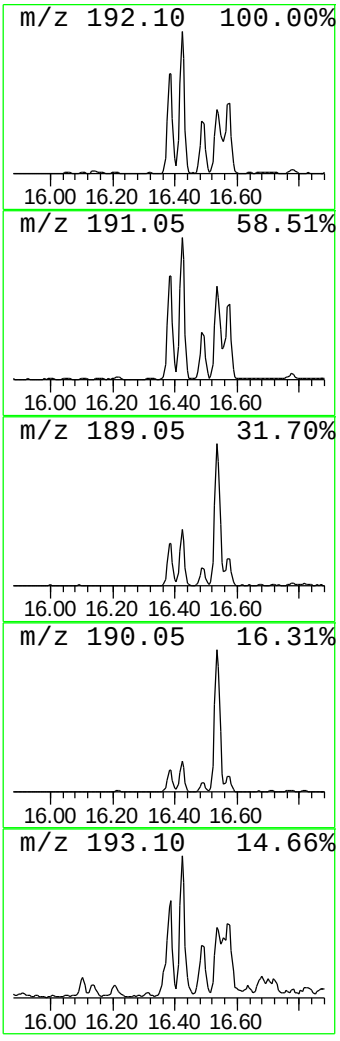
Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.38	6.88 ng	471019	Phenanthrene-d10	15.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	94





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Operator : JU
Sample : K6054-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : RBR-50

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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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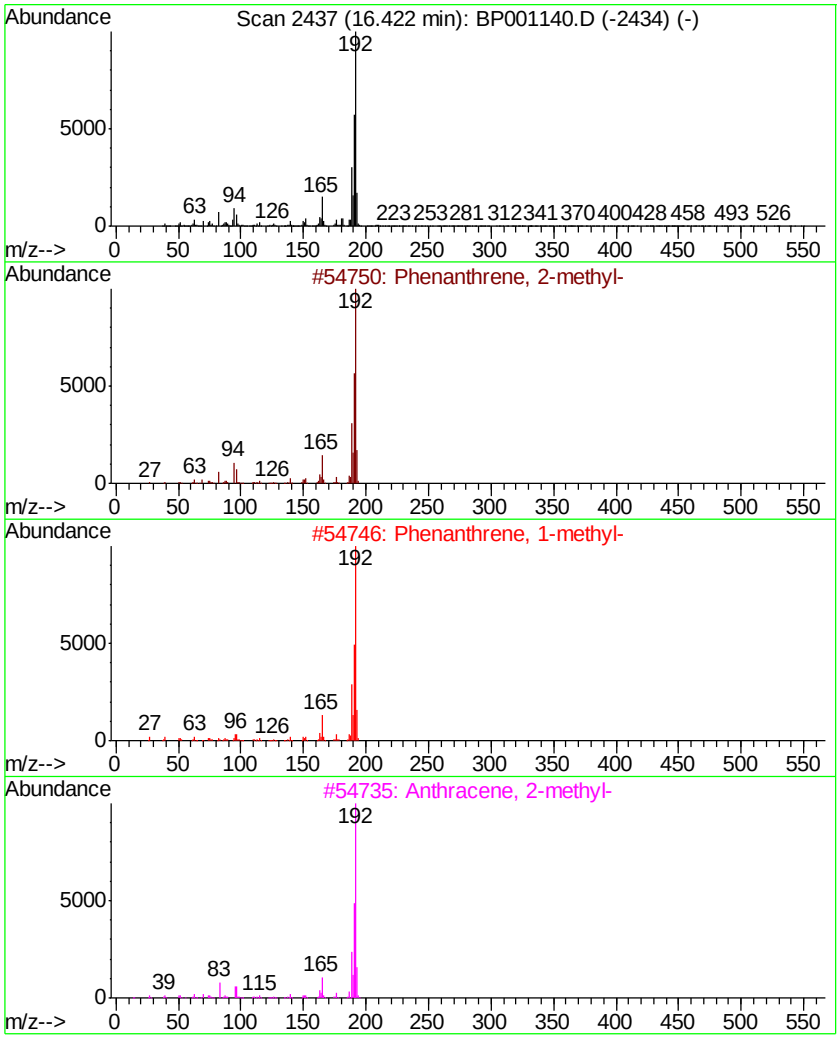
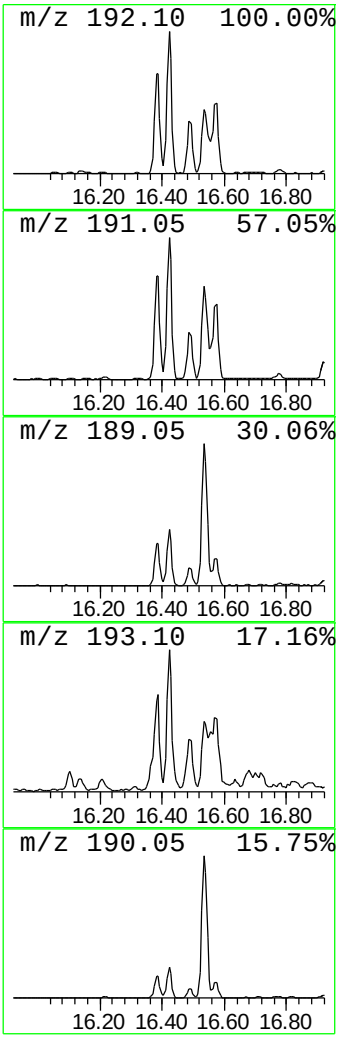
Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.42	9.28 ng	635475	Phenanthrene-d10	15.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95





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Sample : K6054-01 5X
Misc :
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Instrument : BNA_P
ClientSampleId : RBR-50

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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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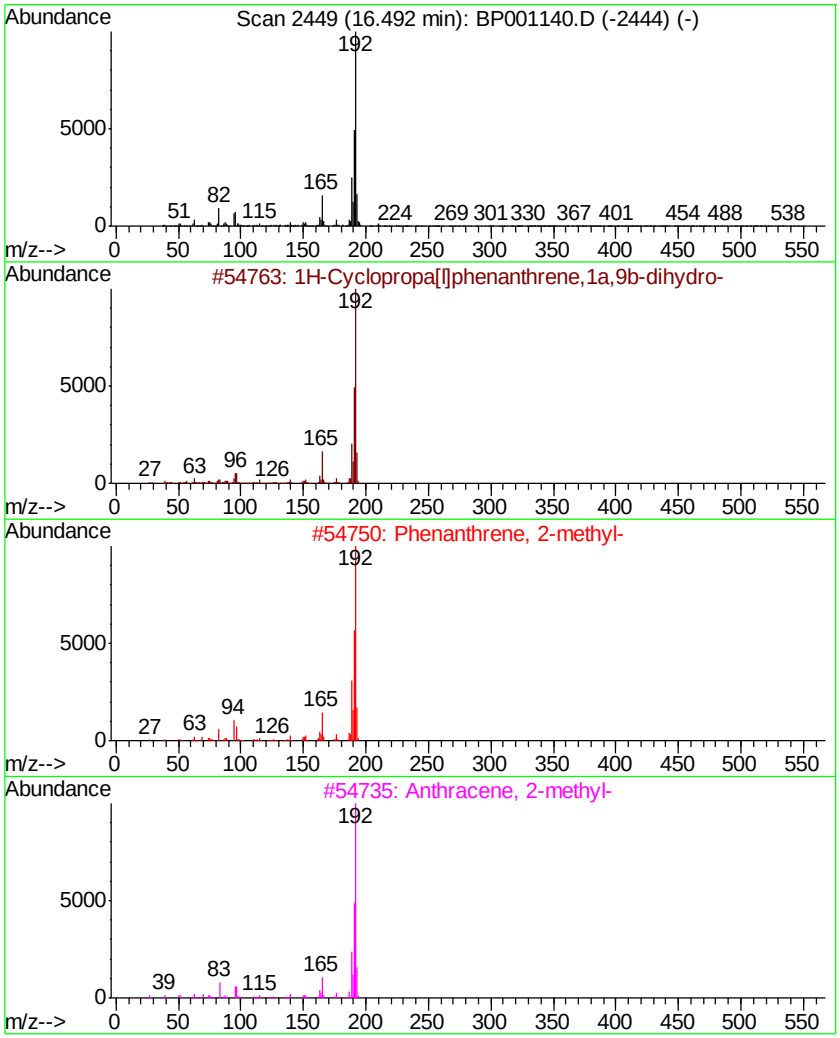
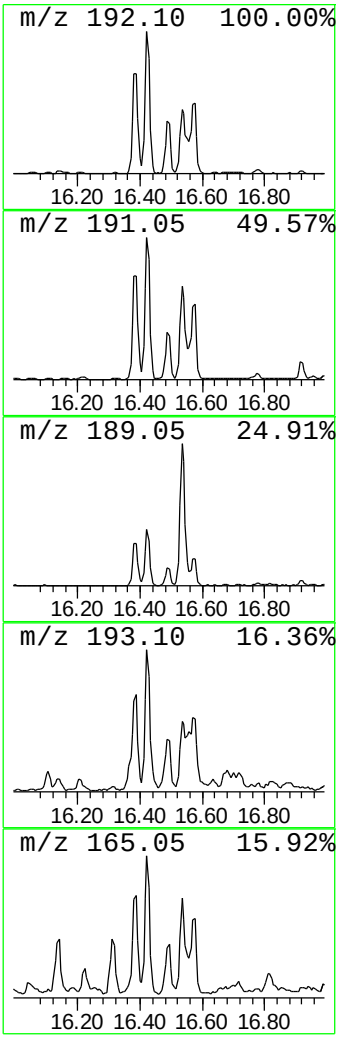
Peak Number 9 1H-Cyclopropa[l]phenanthren... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.49	3.47 ng	237951	Phenanthrene-d10	15.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	98
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	97
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	96





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Sample : K6054-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : RBR-50

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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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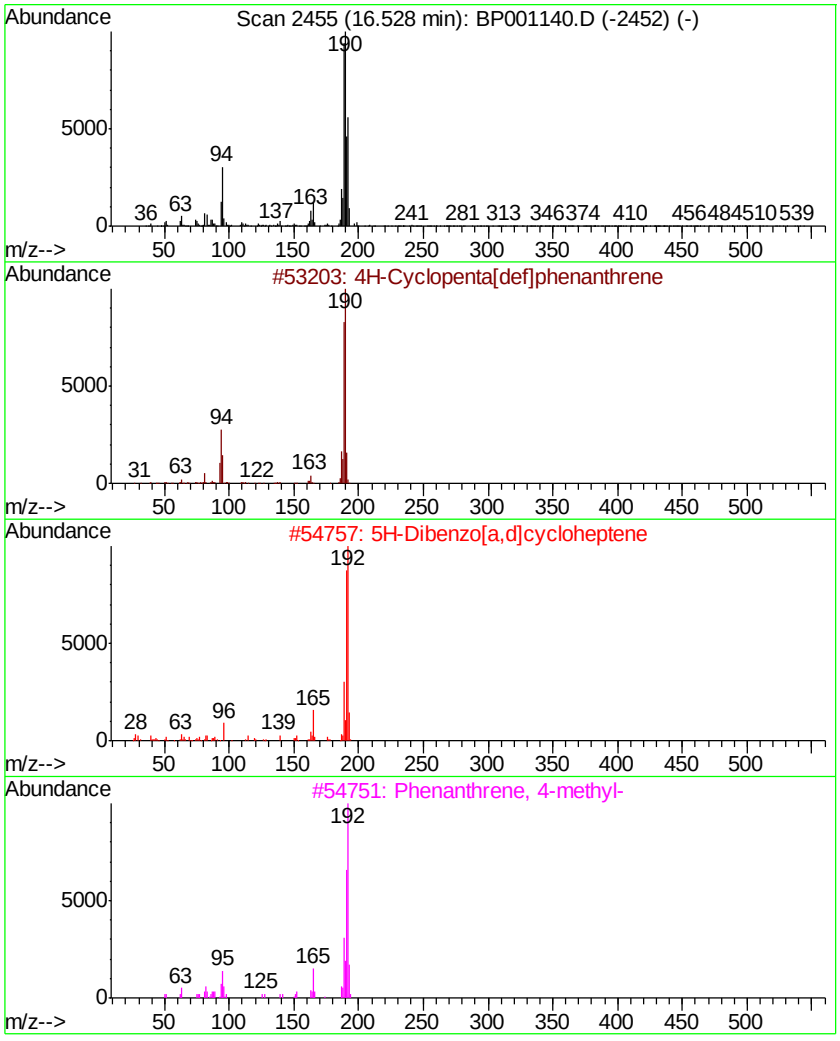
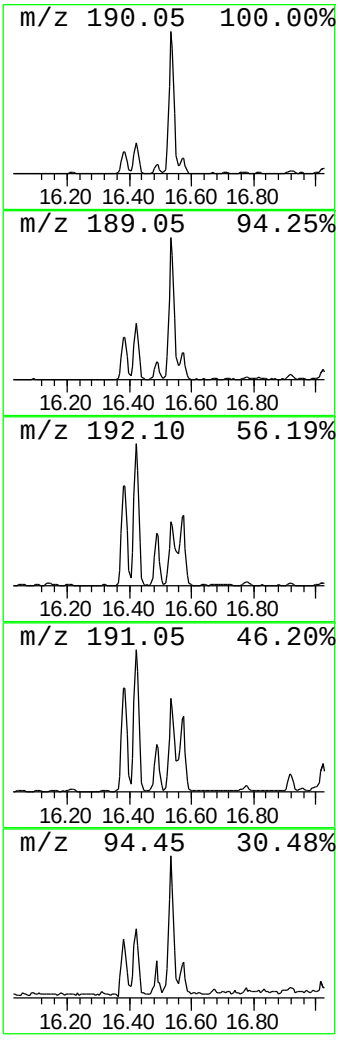
Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.53	11.53 ng	789618	Phenanthrene-d10	15.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	38
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	30
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	30
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	18





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Misc :
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ClientSampleId : RBR-50

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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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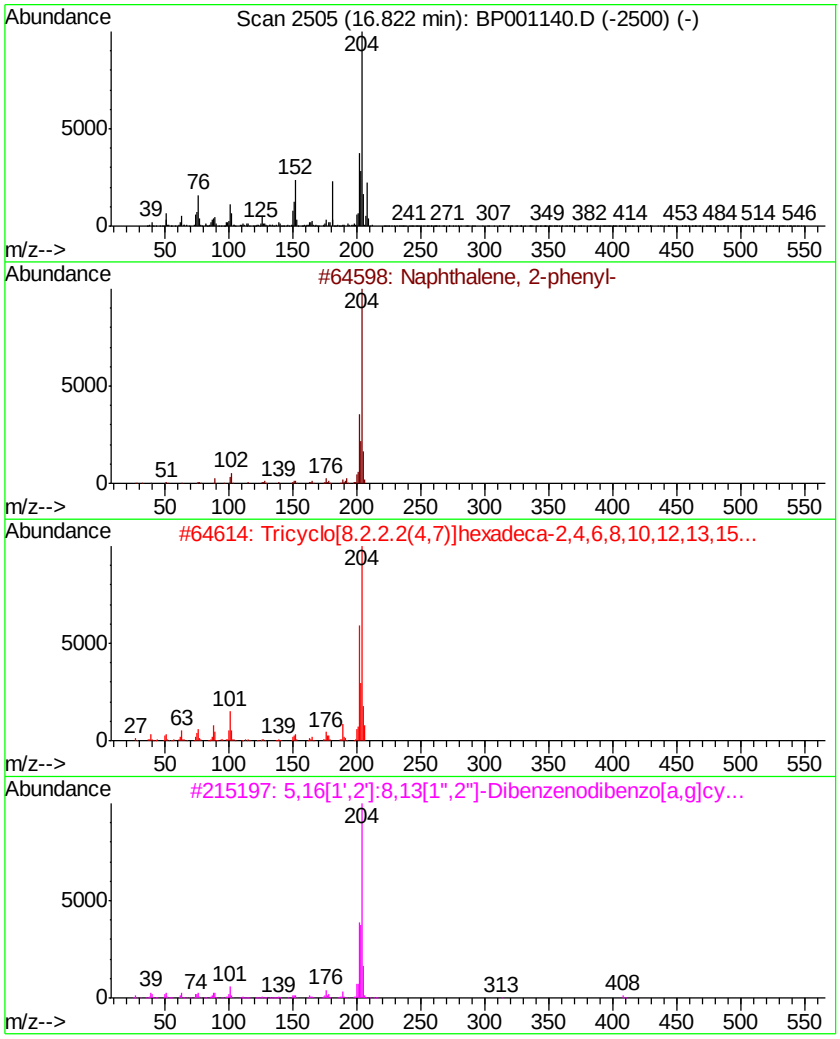
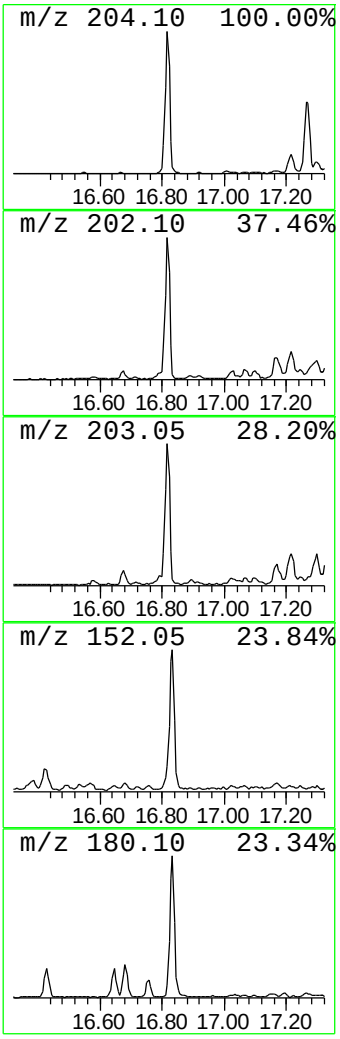
Peak Number 12 Naphthalene, 2-phenyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.82	9.53 ng	653102	Phenanthrene-d10	15.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	55
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	55
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	46
4	Benzene, 1,1'-(1-buten-3-yne-1,4...	204	C16H12	013141-45-2	41
5	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	38





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Misc :
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Instrument : BNA_P
ClientSampleId : RBR-50

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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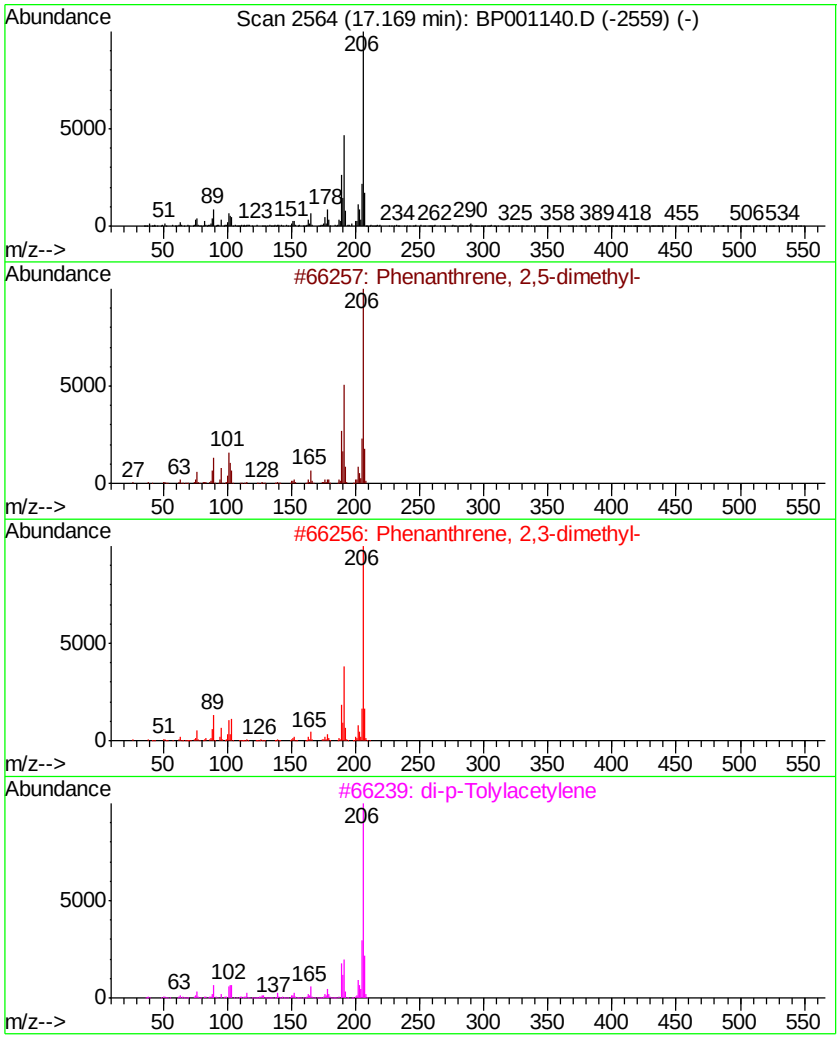
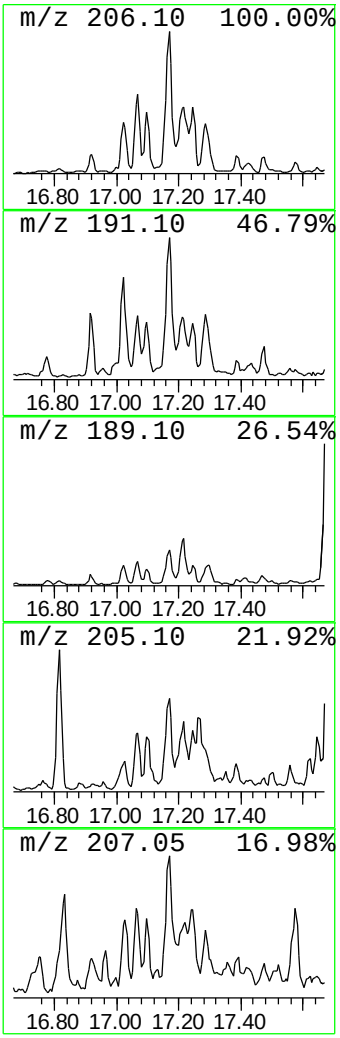
Peak Number 13 Phenanthrene, 2,5-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.17	3.98 ng	272776	Phenanthrene-d10	15.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	92
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90





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Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : RBR-50

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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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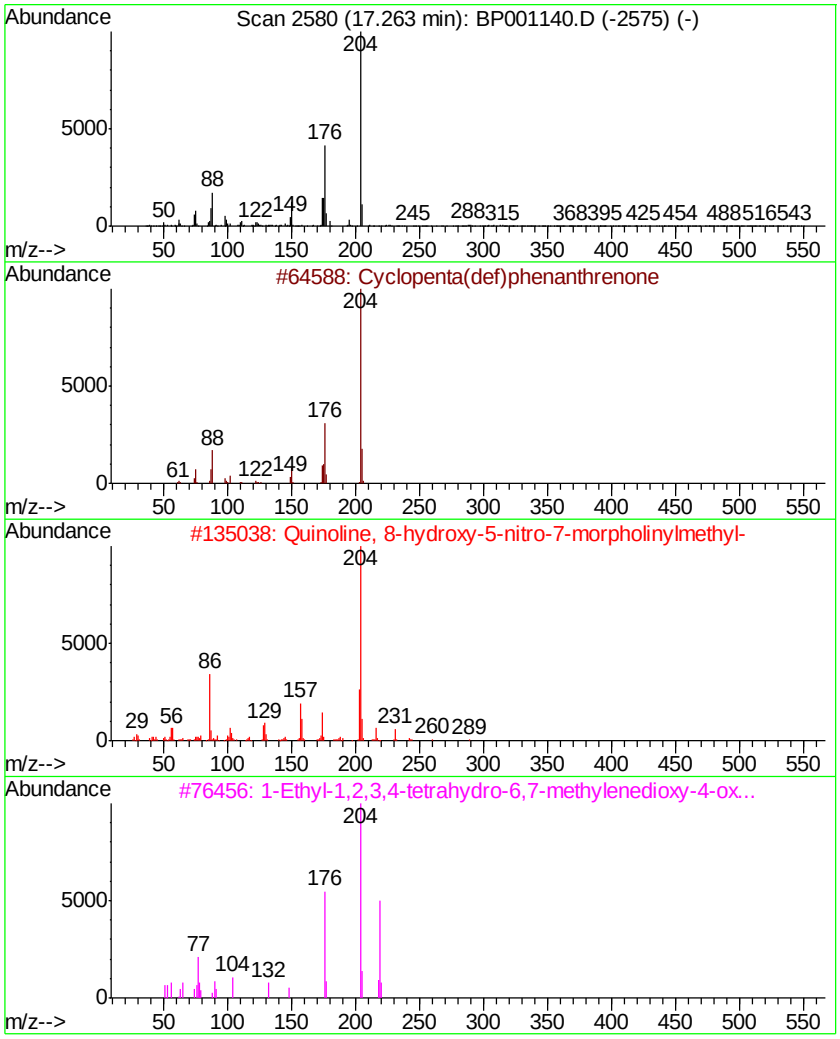
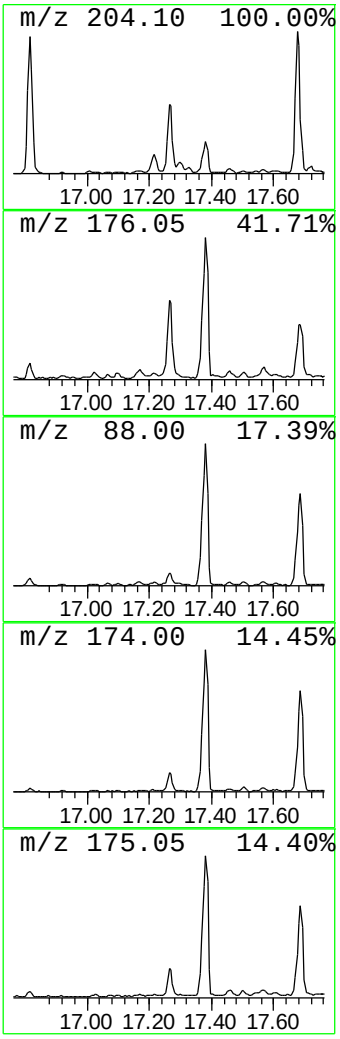
Peak Number 14 Cyclopenta(def)phenanthrenone Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.26	2.65 ng	181224	Phenanthrene-d10	15.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	90
2	Quinoline, 8-hydroxy-5-nitro-7-m...	289	C14H15N3O4	074440-53-2	43
3	1-Ethyl-1,2,3,4-tetrahydro-6,7-m...	219	C12H13NO3	132767-88-5	36
4	[1,2,4]Triazolo[5,1-b]quinazolin...	204	C10H12N4O	1000337-56-5	36
5	Spiro[cyclopropane-1,8'(1H')[3a....	204	C14H20O	452049-62-6	27





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Misc :
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Instrument : BNA_P
ClientSampleId : RBR-50

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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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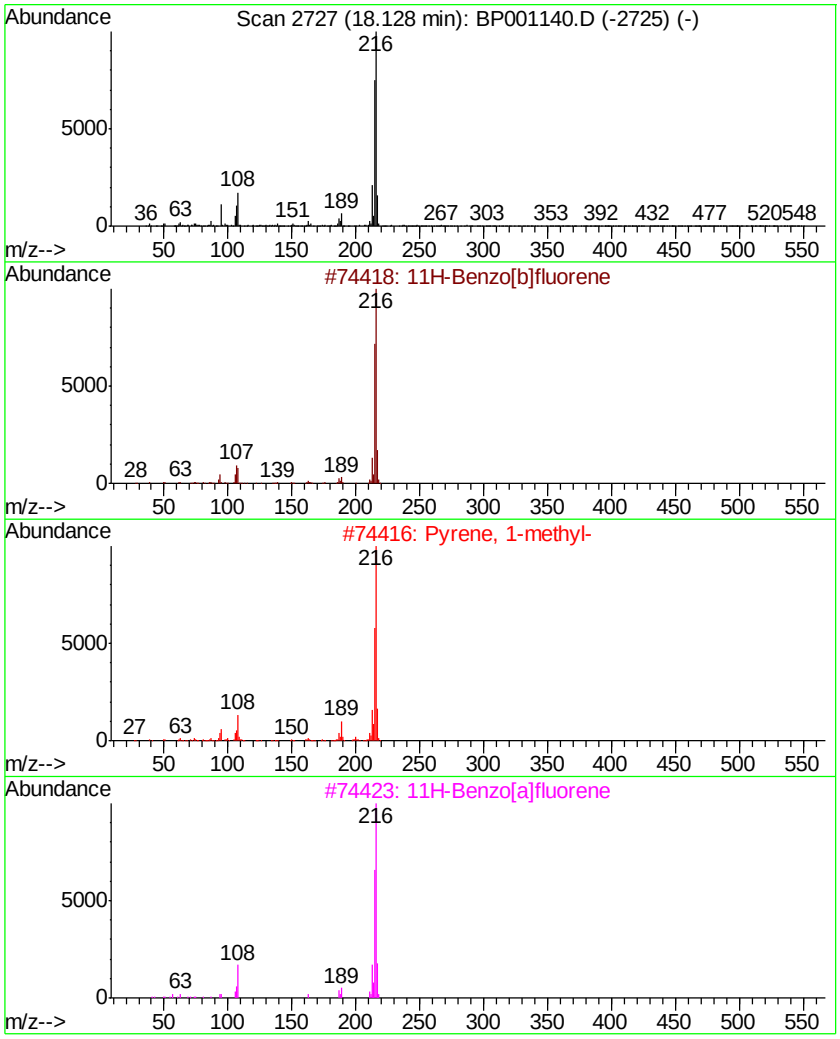
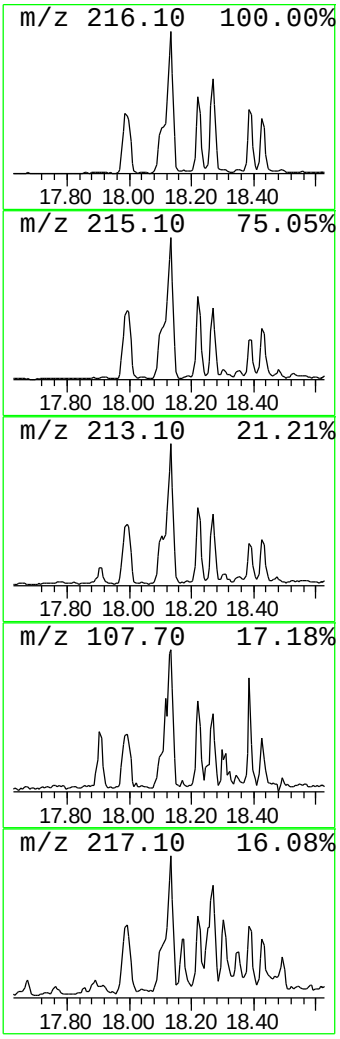
Peak Number 15 11H-Benzo[b]fluorene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.13	2.73 ng	538414	Chrysene-d12	19.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	97
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
5	6H-Thiazolo[5,4-e]indole, 2,7,8-...	216	C12H12N2S	1000338-32-0	64





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Instrument : BNA_P
ClientSampleId : RBR-50

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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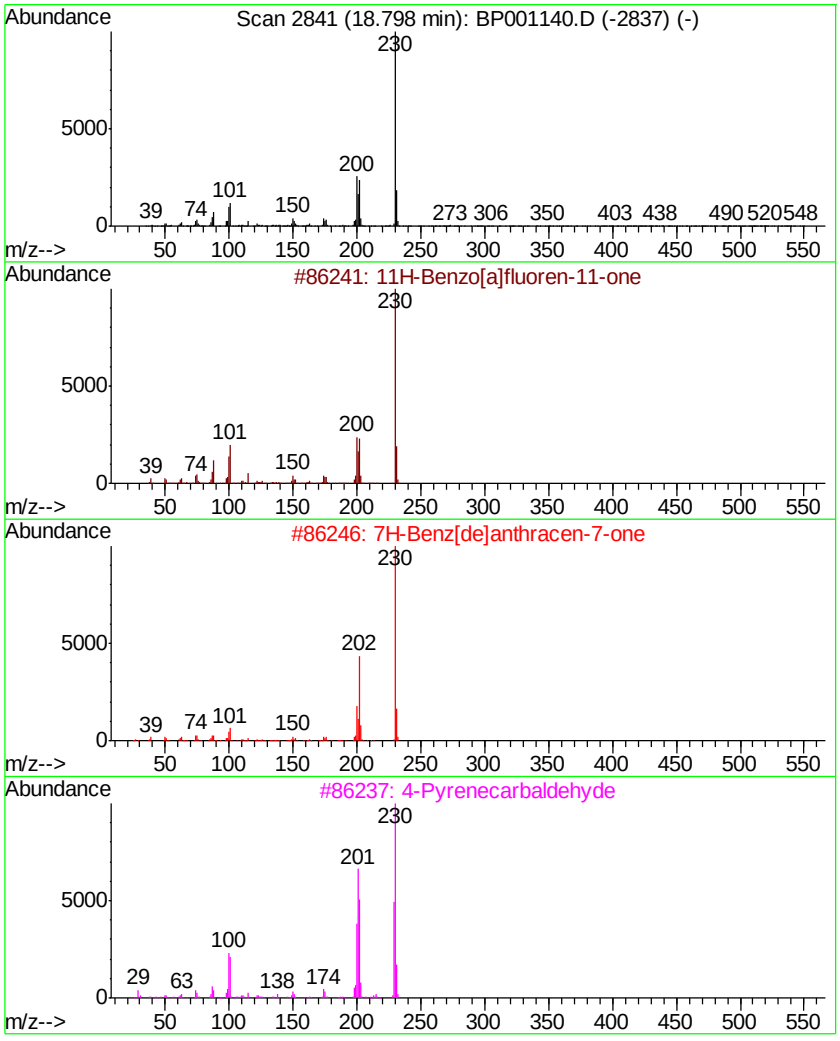
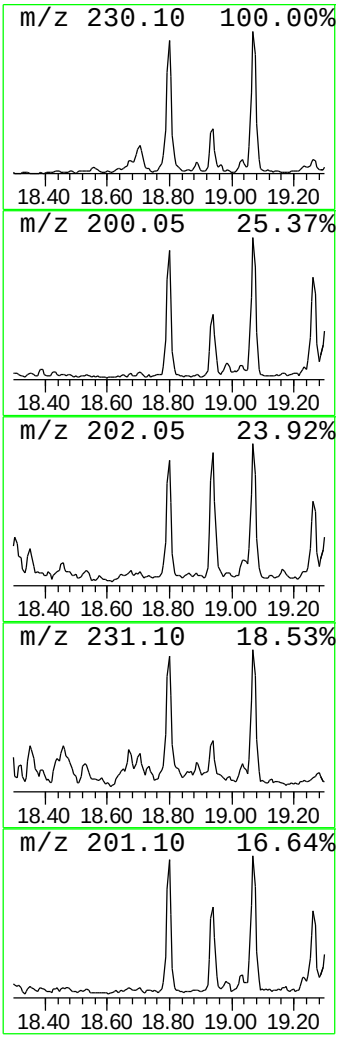
Peak Number 16 11H-Benzo[a]fluoren-11-one Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.80	2.55 ng	503297	Chrysene-d12	19.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	97
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
3	4-Pyrenecarbaldehyde	230	C17H10O	022245-51-8	72
4	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	62
5	o-Terphenyl	230	C18H14	000084-15-1	58





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Sample : K6054-01 5X
Misc :
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Instrument : BNA_P
ClientSampleId : RBR-50

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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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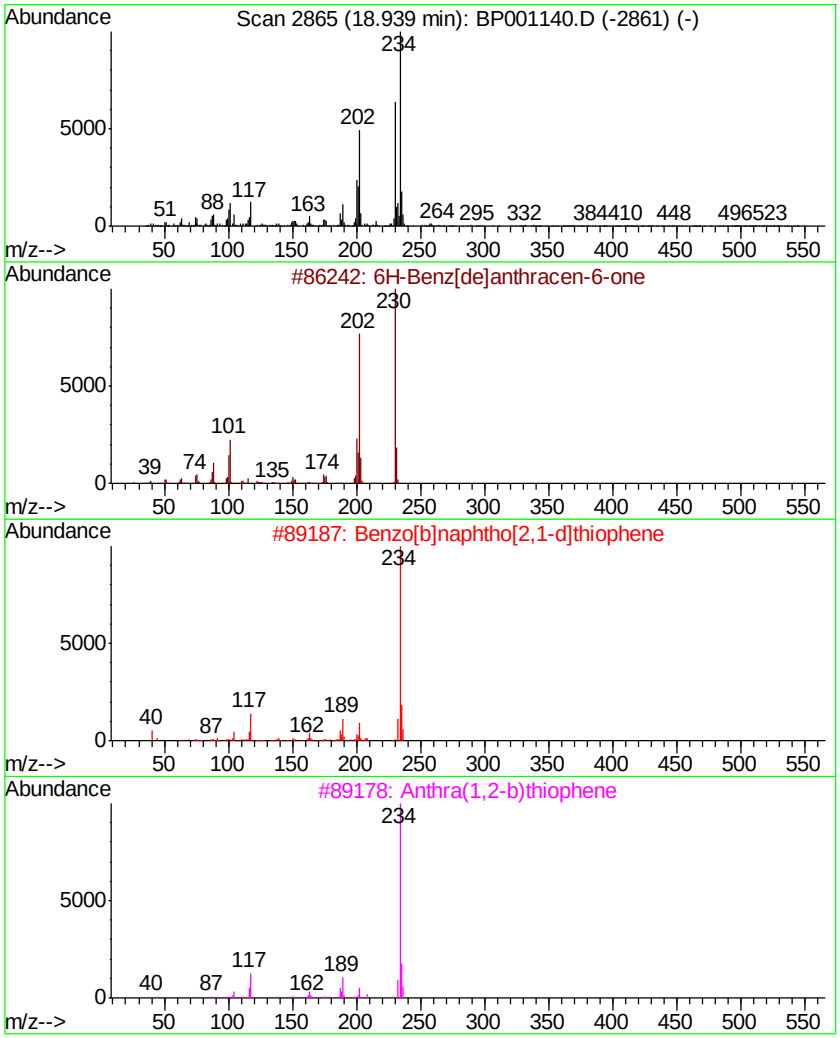
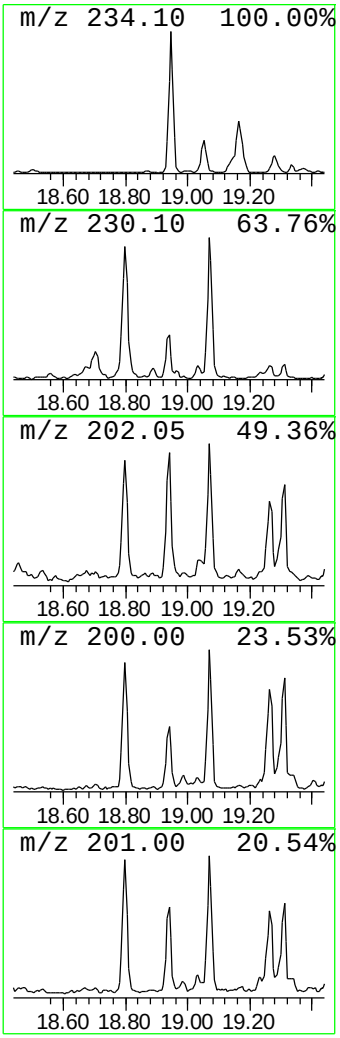
Peak Number 17 6H-Benz[de]anthracen-6-one Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.94	2.62 ng	517290	Chrysene-d12	19.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	95
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	93
3	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	89
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	84
5	Benzenamine, 2-ethyl-N-(4,4-dime...	234	C13H18N2S	1000272-26-2	80





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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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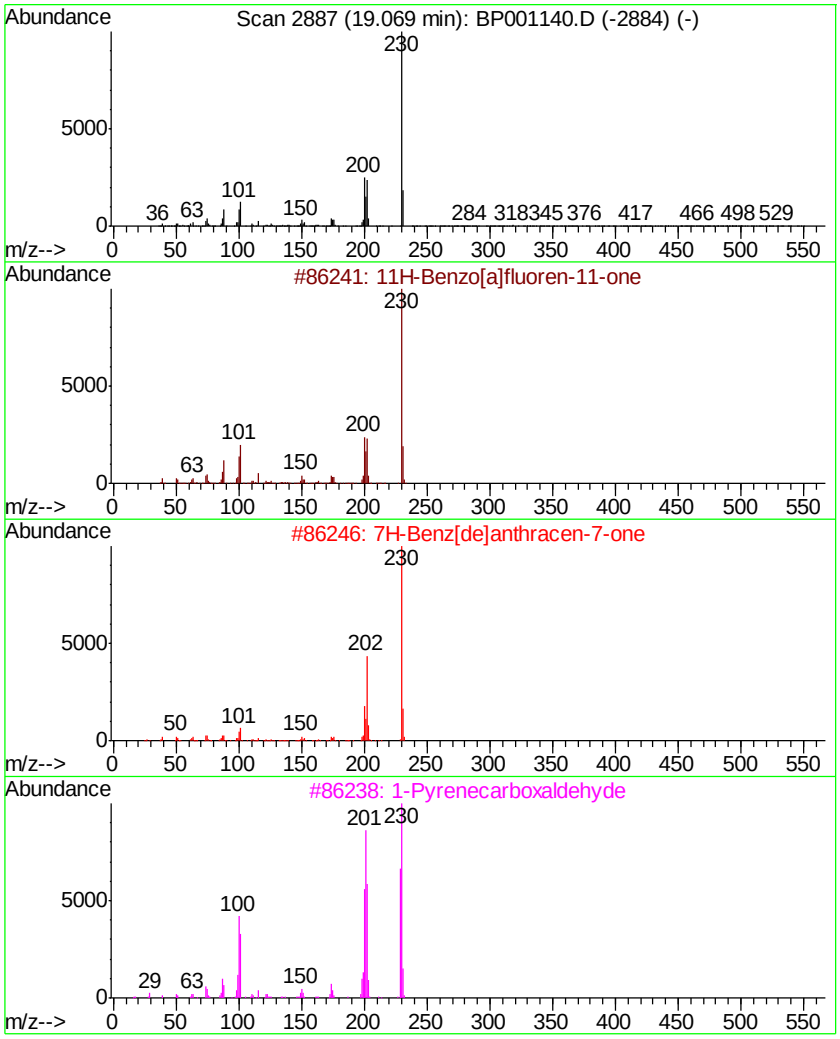
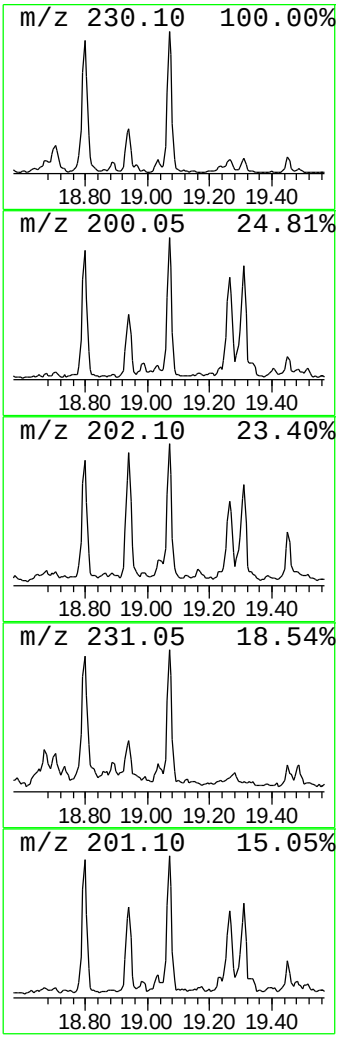
Peak Number 18 7H-Benz[de]anthracen-7-one Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.07	2.52 ng	495895	Chrysene-d12	19.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	97
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
3	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	72
4	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	64
5	o-Terphenyl	230	C18H14	000084-15-1	58





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP120219\
Data File : BP001140.D
Acq On : 02 Dec 2019 22:12
Operator : JU
Sample : K6054-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : RBR-50

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP112719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

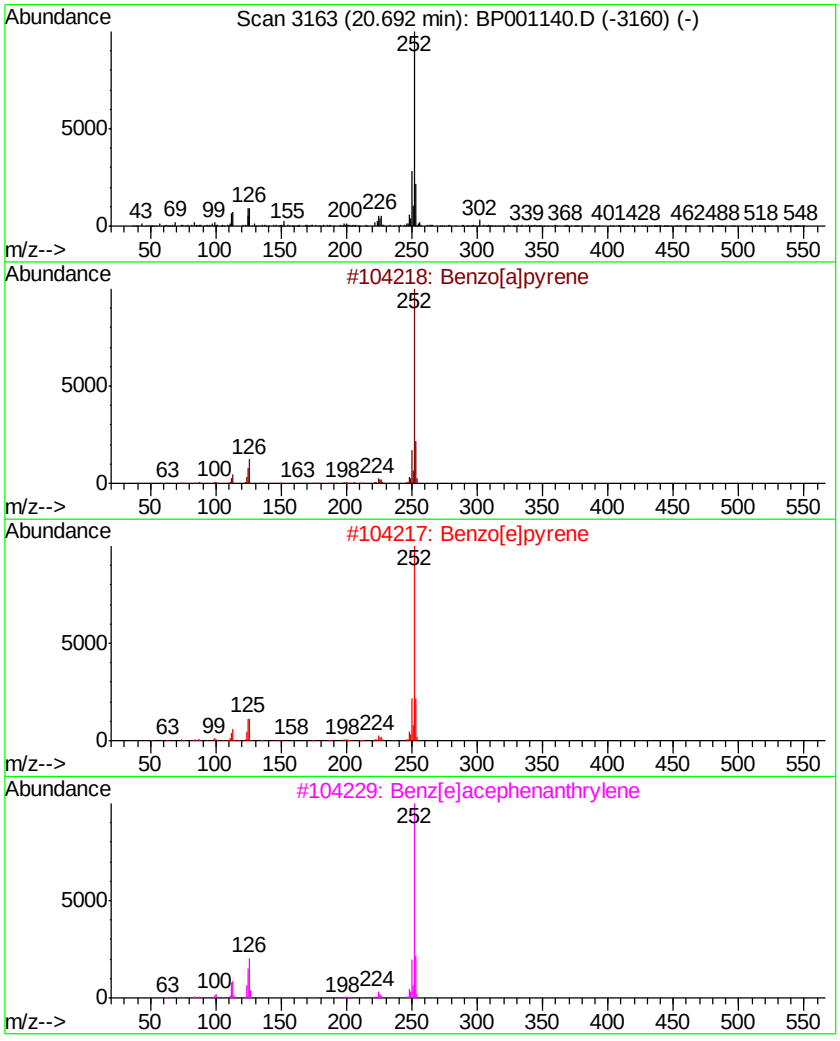
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

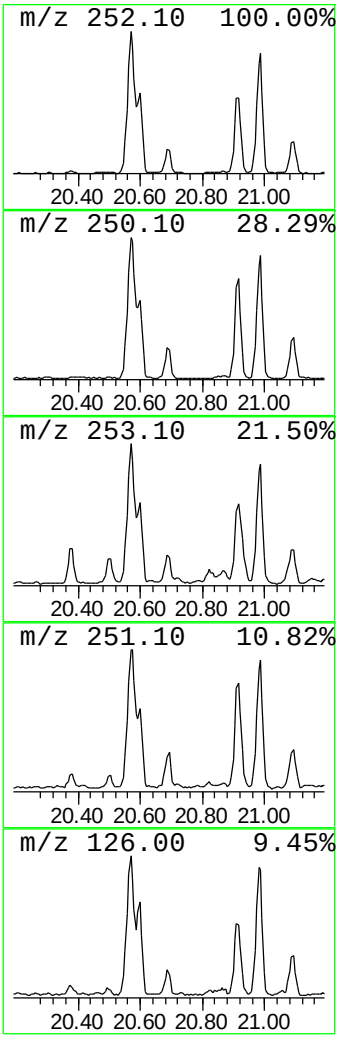
****

Peak Number 19 Benzo[e]pyrene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.69	3.90 ng	255940	Perylene-d12	21.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[a]pyrene	252	C20H12	000050-32-8	91
2	Benzo[e]pyrene	252	C20H12	000192-97-2	91
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90
5	Perylene	252	C20H12	000198-55-0	81





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP120219\
Data File : BP001140.D
Acq On : 02 Dec 2019 22:12
Operator : JU
Sample : K6054-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : RBR-50

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP112719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

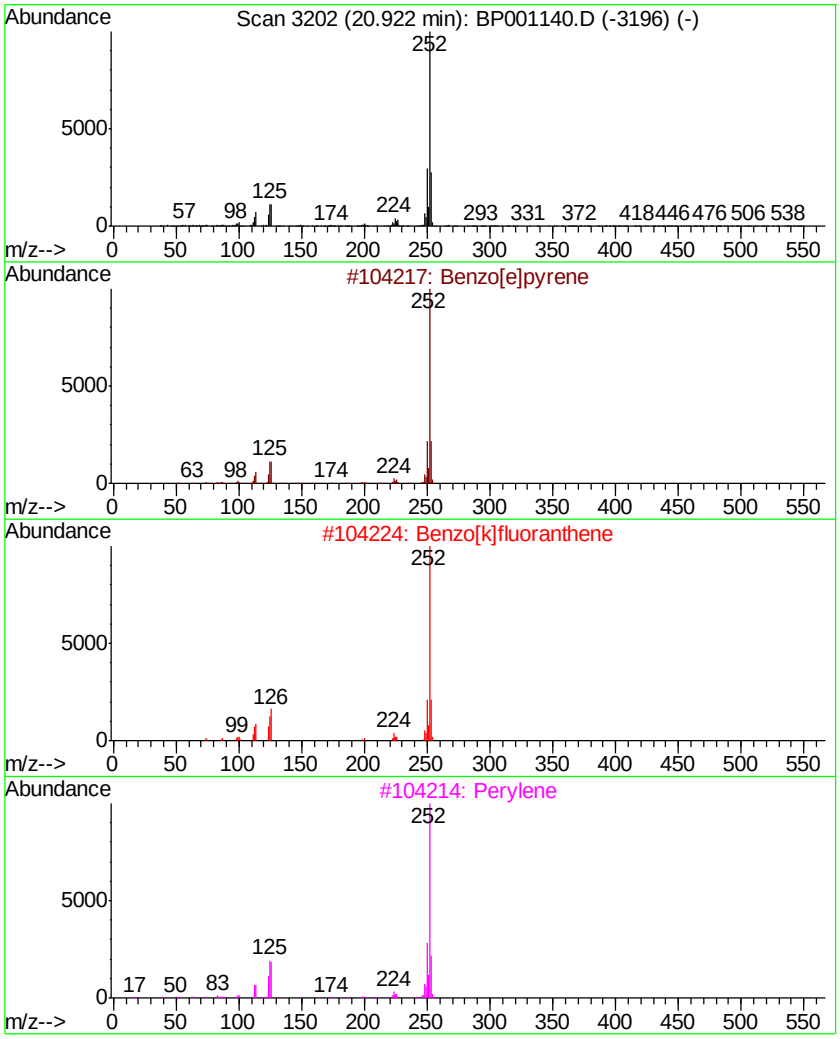
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

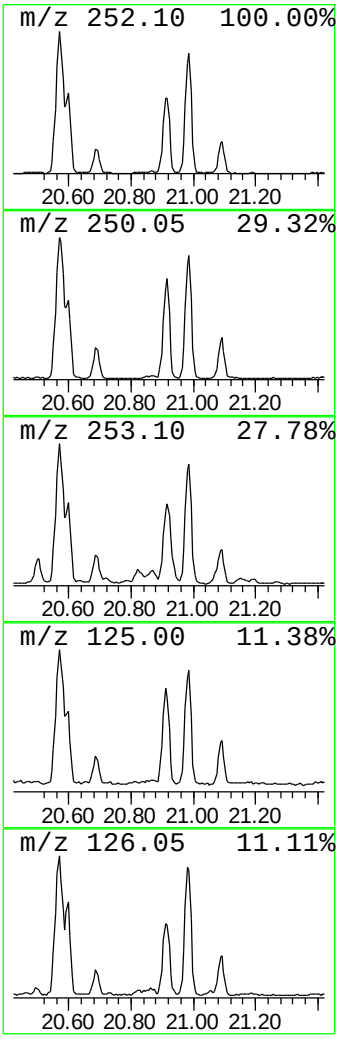
****

Peak Number 20 Perylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.92	18.84 ng	1235670	Perylene-d12	21.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	97
3	Perylene	252	C20H12	000198-55-0	94
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP120219\
Data File : BP001140.D
Acq On : 02 Dec 2019 22:12
Operator : JU
Sample : K6054-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : RBR-50

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP112719.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...	5.63	3.0	ng	143639	1	8.33	942324	20.0
unknown7.96	7.96	16.0	ng	755624	1	8.33	942324	20.0
9H-Fluoren-9-one	15.33	2.7	ng	183421	4	15.63	1369980	20.0
Anthracene, 1,2,3...	15.42	3.0	ng	202623	4	15.63	1369980	20.0
Naphtho[1,2-b]thi...	15.46	2.6	ng	181554	4	15.63	1369980	20.0
Phenanthrene, 2-m...	16.38	6.9	ng	471019	4	15.63	1369980	20.0
Phenanthrene, 1-m...	16.42	9.3	ng	635475	4	15.63	1369980	20.0
1H-Cyclopropa[l]p...	16.49	3.5	ng	237951	4	15.63	1369980	20.0
4H-Cyclopenta[def...	16.53	11.5	ng	789618	4	15.63	1369980	20.0
Naphthalene, 2-ph...	16.82	9.5	ng	653102	4	15.63	1369980	20.0
Phenanthrene, 2,5...	17.17	4.0	ng	272776	4	15.63	1369980	20.0
Cyclopenta(def)ph...	17.26	2.6	ng	181224	4	15.63	1369980	20.0
11H-Benzo[b]fluorene	18.13	2.7	ng	538414	5	19.27	3942930	20.0
11H-Benzo[a]fluor...	18.80	2.5	ng	503297	5	19.27	3942930	20.0
6H-Benz[de]anthra...	18.94	2.6	ng	517290	5	19.27	3942930	20.0
7H-Benz[de]anthra...	19.07	2.5	ng	495895	5	19.27	3942930	20.0
Benzo[e]pyrene	20.69	3.9	ng	255940	6	21.06	1311860	20.0
Perylene	20.92	18.8	ng	1235670	6	21.06	1311860	20.0