LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042619\
Data File : BN005347.D
Acq On : 27 Apr 2019 09:09
Operator : JU/SJ
Sample : K2455-21DL 25X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : GAHS1DL

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_N\METHODS\SOM-EPA-BN041919MA.M
Title : SVOA CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.634	445	450	457	rBV	87002	143463	1.05%	0.121%
2	7.134	700	705	712	rBV2	62427	105005	0.77%	0.089%
3	7.263	720	727	733	rBV	64812	124084	0.91%	0.105%
4	7.593	775	783	791	rBV	1596688	2525118	18.49%	2.129%
5	8.122	866	873	885	rBV	100287	183118	1.34%	0.154%
6	8.299	895	903	911	rBV2	64375	122952	0.90%	0.104%
7	8.740	972	978	988	rVB	51367	102361	0.75%	0.086%
8	9.940	1178	1182	1186	rVV	59004	103997	0.76%	0.088%
9	9.987	1186	1190	1197	rVB	58376	109775	0.80%	0.093%
10	10.352	1245	1252	1266	rBV	2128167	3753970	27.49%	3.165%
11	11.740	1482	1488	1496	rVV	159475	318077	2.33%	0.268%
12	11.875	1502	1511	1519	rVV2	112833	372683	2.73%	0.314%
13	12.669	1634	1646	1650	rBV2	50059	158170	1.16%	0.133%
14	13.063	1710	1713	1722	rVB	75675	127763	0.94%	0.108%
15	13.193	1730	1735	1743	rVV5	95043	219633	1.61%	0.185%
16	13.275	1745	1749	1758	rVB7	54019	122850	0.90%	0.104%
17	13.646	1807	1812	1814	rBV	197042	269574	1.97%	0.227%
18	13.681	1814	1818	1824	rVB2	287407	455947	3.34%	0.384%
19	13.945	1853	1863	1875	rBV2	801586	1497683	10.97%	1.263%
20	14.151	1894	1898	1902	rBV	158764	195408	1.43%	0.165%
21	14.228	1905	1911	1927	rVB2	3043647	4775509	34.97%	4.026%
22	14.840	2009	2015	2021	rBV2	152353	312872	2.29%	0.264%
23	15.110	2055	2061	2066	rVB2	285724	409998	3.00%	0.346%
24	15.228	2077	2081	2086	rVB	288831	410006	3.00%	0.346%
25	15.304	2088	2094	2101	rVB3	85427	198417	1.45%	0.167%
26	15.404	2107	2111	2117	rVB2	174375	243693	1.78%	0.205%
27	15.487	2120	2125	2127	rBV3	89236	147357	1.08%	0.124%
28	15.963	2200	2206	2212	rBV2	298971	624983	4.58%	0.527%
29	16.339	2266	2270	2276	rVB2	210349	294782	2.16%	0.249%
30	16.439	2283	2287	2293	rVB3	118173	186378	1.36%	0.157%
31	16.563	2304	2308	2313	rVB4	214648	351366	2.57%	0.296%
32	16.639	2318	2321	2328	rVB5	87282	160618	1.18%	0.135%
33	16.769	2339	2343	2346	rBV	119996	140117	1.03%	0.118%
34	16.981	2374	2379	2383	rBV2	3793646	5403876	39.57%	4.556%

LSC Area Percent Report

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Operator : JU/SJ
Sample : K2455-21DL 25X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : GAHS1DL

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_N\METHODS\SOM-EPA-BN041919MA.M
Title : SVOA CALIBRATION

35	17.022	2383	2386	2392	rVV	1785981	2489823	18.23%	2.099%
36	17.081	2392	2396	2398	rVV2	214958	300681	2.20%	0.254%
37	17.116	2398	2402	2407	rVV	768274	1087546	7.96%	0.917%
38	17.181	2407	2413	2418	rVV5	226063	498717	3.65%	0.420%
39	17.298	2431	2433	2439	rVB4	77460	104985	0.77%	0.089%
40	17.398	2446	2450	2453	rBV3	63028	104753	0.77%	0.088%
41	17.510	2465	2469	2473	rVV	446611	547867	4.01%	0.462%
42	17.563	2475	2478	2484	rVB2	196541	294699	2.16%	0.248%
43	17.657	2489	2494	2497	rBV	562881	929672	6.81%	0.784%
44	17.786	2511	2516	2517	rBV2	147142	198738	1.46%	0.168%
45	17.863	2524	2529	2533	rBV	1514357	2085374	15.27%	1.758%
46	17.910	2533	2537	2545	rVB	2251863	3116444	22.82%	2.628%
47	17.992	2546	2551	2555	rBV	327859	480237	3.52%	0.405%
48	18.051	2555	2561	2566	rBV2	2322505	4188062	30.67%	3.531%
49	18.092	2566	2568	2579	rVB	1197652	1508175	11.04%	1.272%
50	18.186	2580	2584	2587	rBV	210350	302959	2.22%	0.255%
51	18.263	2594	2597	2600	rVB2	135034	169193	1.24%	0.143%
52	18.333	2602	2609	2611	rBV3	222381	391118	2.86%	0.330%
53	18.369	2611	2615	2619	rVV	895610	1291890	9.46%	1.089%
54	18.410	2619	2622	2627	rVB3	273161	431881	3.16%	0.364%
55	18.498	2633	2637	2648	rVB6	173920	439440	3.22%	0.371%
56	18.592	2649	2653	2654	rBV3	140557	176098	1.29%	0.148%
57	18.622	2654	2658	2662	rVV3	449640	743759	5.45%	0.627%
58	18.669	2663	2666	2670	rVV	413234	590571	4.32%	0.498%
59	18.710	2670	2673	2677	rVB	288788	382640	2.80%	0.323%
60	18.798	2683	2688	2692	rBV2	1102433	1790111	13.11%	1.509%
61	18.857	2692	2698	2701	rVV2	715975	1233527	9.03%	1.040%
62	18.886	2701	2703	2707	rVB	429202	442633	3.24%	0.373%
63	18.933	2707	2711	2720	rBV2	1282374	2375412	17.39%	2.003%
64	19.057	2724	2732	2739	rVB	4272621	6573229	48.13%	5.542%
65	19.133	2740	2745	2748	rBV	531723	774273	5.67%	0.653%
66	19.163	2748	2750	2754	rVB3	211856	268144	1.96%	0.226%
67	19.210	2754	2758	2762	rVB	907108	1138098	8.33%	0.960%
68	19.263	2762	2767	2771	rVB2	298525	424077	3.11%	0.358%
69	19.328	2775	2778	2785	rVB	325206	627380	4.59%	0.529%
70	19.428	2786	2795	2803	rBV	9586992	13656938	100.00%	11.514%
71	19.510	2804	2809	2815	rVB4	301484	597604	4.38%	0.504%

LSC Area Percent Report

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Operator : JU/SJ
Sample : K2455-21DL 25X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : GAHS1DL

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_N\METHODS\SOM-EPA-BN041919MA.M
Title : SVOA CALIBRATION

72	19.569	2815	2819	2821	rBV5	107682	173146	1.27%	0.146%
73	19.604	2822	2825	2828	rBV2	108167	125445	0.92%	0.106%
74	19.669	2831	2836	2843	rVB4	297852	617791	4.52%	0.521%
75	19.757	2847	2851	2861	rBV4	1035410	2162907	15.84%	1.824%
76	19.839	2862	2865	2869	rBV4	167271	223792	1.64%	0.189%
77	19.910	2870	2877	2878	rBV4	935483	1784953	13.07%	1.505%
78	20.033	2894	2898	2902	rBV2	779766	985149	7.21%	0.831%
79	20.092	2904	2908	2912	rVB2	1544233	1868495	13.68%	1.575%
80	20.233	2928	2932	2936	rBV	1177701	1485037	10.87%	1.252%
81	20.280	2936	2940	2945	rVB	1325418	1727558	12.65%	1.457%
82	20.492	2973	2976	2979	rBV4	153776	218621	1.60%	0.184%
83	20.686	3006	3009	3017	rVB	487498	868911	6.36%	0.733%
84	20.898	3041	3045	3048	rVB	592065	599354	4.39%	0.505%
85	20.933	3048	3051	3054	rBV	320017	369116	2.70%	0.311%
86	21.210	3092	3098	3103	rBV3	4138617	8799496	64.43%	7.419%
87	21.251	3103	3105	3112	rVB	2149280	3067895	22.46%	2.587%
88	21.422	3131	3134	3140	rVB	509856	656056	4.80%	0.553%
89	21.580	3158	3161	3165	rVB3	278770	336988	2.47%	0.284%
90	21.716	3181	3184	3187	rBV2	273560	363991	2.67%	0.307%
91	21.769	3190	3193	3197	rVV	889855	1289790	9.44%	1.087%
92	21.822	3198	3202	3208	rVB2	607244	944997	6.92%	0.797%
93	21.963	3223	3226	3229	rBV	389001	516662	3.78%	0.436%
94	21.992	3229	3231	3239	rVB2	522822	661818	4.85%	0.558%
95	22.069	3241	3244	3248	rVB2	267592	358353	2.62%	0.302%
96	22.769	3358	3363	3375	rVB2	1206914	3709213	27.16%	3.127%
97	22.933	3388	3391	3399	rVB	388954	683284	5.00%	0.576%
98	23.233	3437	3442	3447	rBV	693763	1146337	8.39%	0.967%
99	23.327	3453	3458	3466	rVB	843577	1556656	11.40%	1.312%
100	23.421	3468	3474	3480	rBV	2130586	3876452	28.38%	3.268%

Sum of corrected areas: 118606614

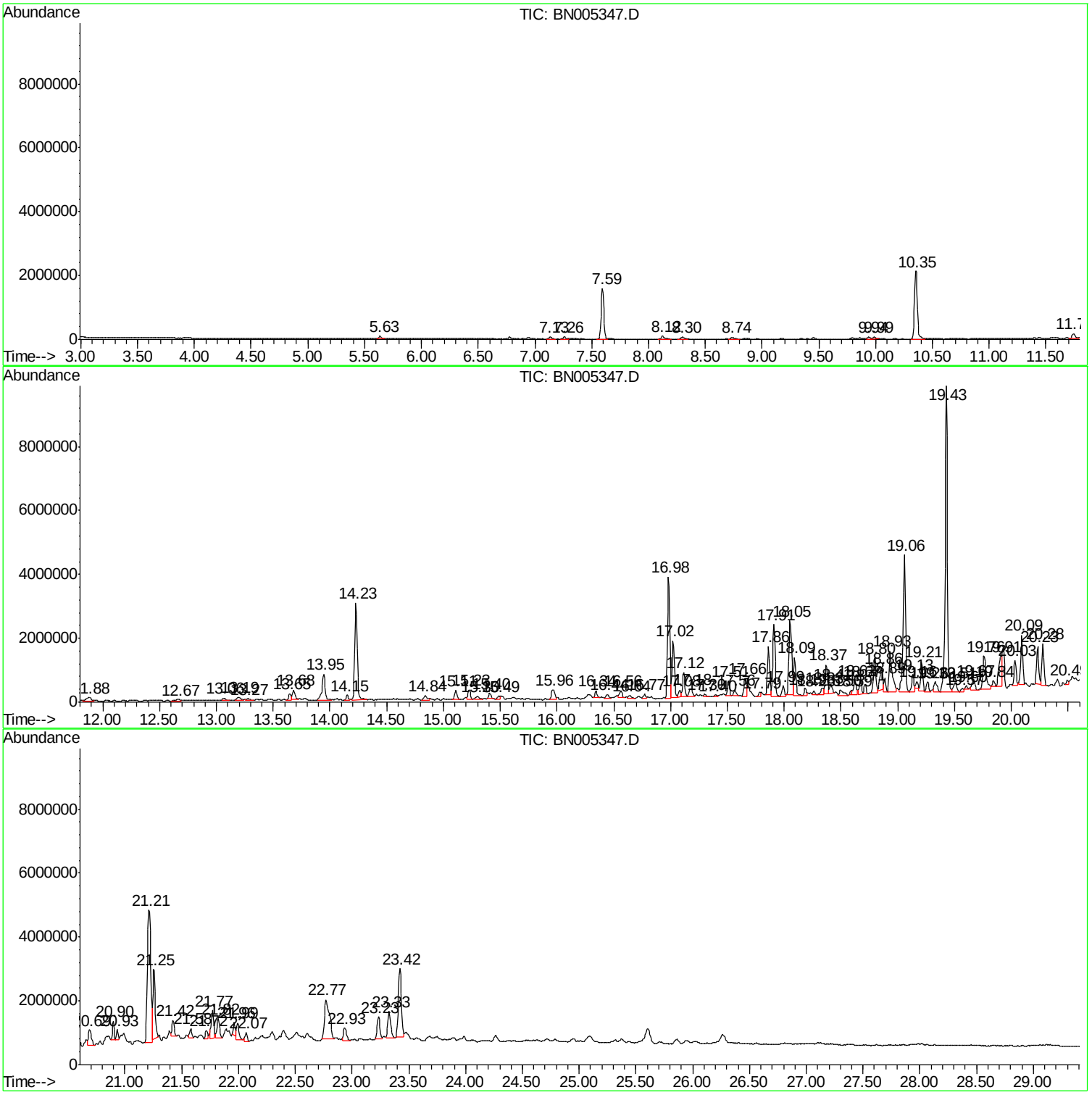
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042619\
Data File : BN005347.D
Acq On : 27 Apr 2019 09:09
Operator : JU/SJ
Sample : K2455-21DL 25X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
GAHS1DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042619\
Data File : BN005347.D
Acq On : 27 Apr 2019 09:09
Operator : JU/SJ
Sample : K2455-21DL 25X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : GAHS1DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

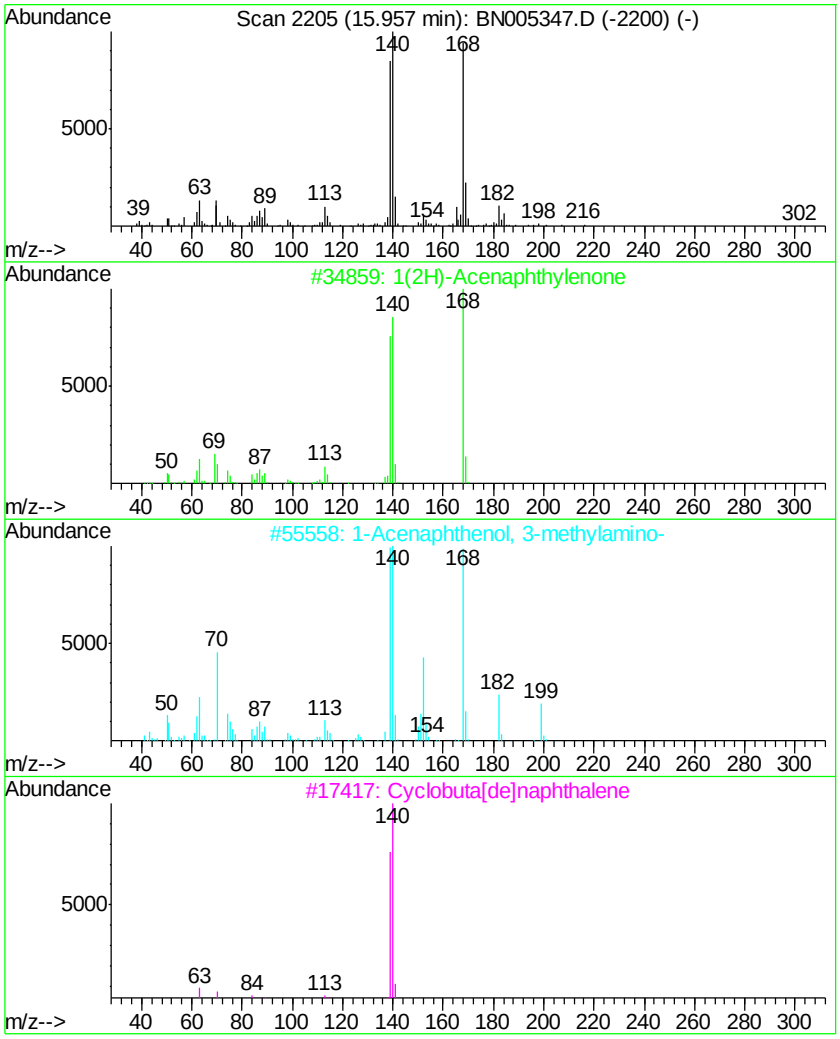
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

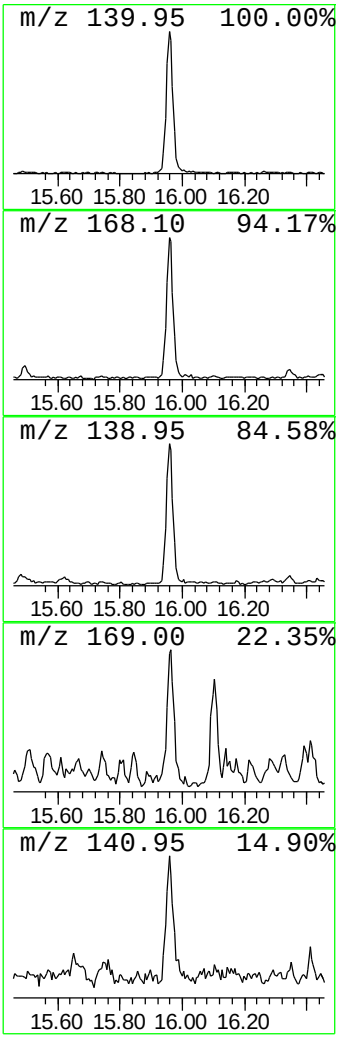
****

Peak Number 1 1(2H)-Acenaphthylenone Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.96	2.31 ng/ul	624983	Phenanthrene-d10	16.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1(2H)-Acenaphthylenone	168	C12H8O	002235-15-6	91
2	1-Acenaphthenol, 3-methylamino-	199	C13H13NO	1000129-22-6	56
3	Cyclobuta[de]naphthalene	140	C11H8	024973-91-9	55
4	4H-Pyran-4-one, 2-ethyl-3-hydroxy-	140	C7H8O3	004940-11-8	43
5	Dibenzofuran	168	C12H8O	000132-64-9	43





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042619\
Data File : BN005347.D
Acq On : 27 Apr 2019 09:09
Operator : JU/SJ
Sample : K2455-21DL 25X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : GAHS1DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

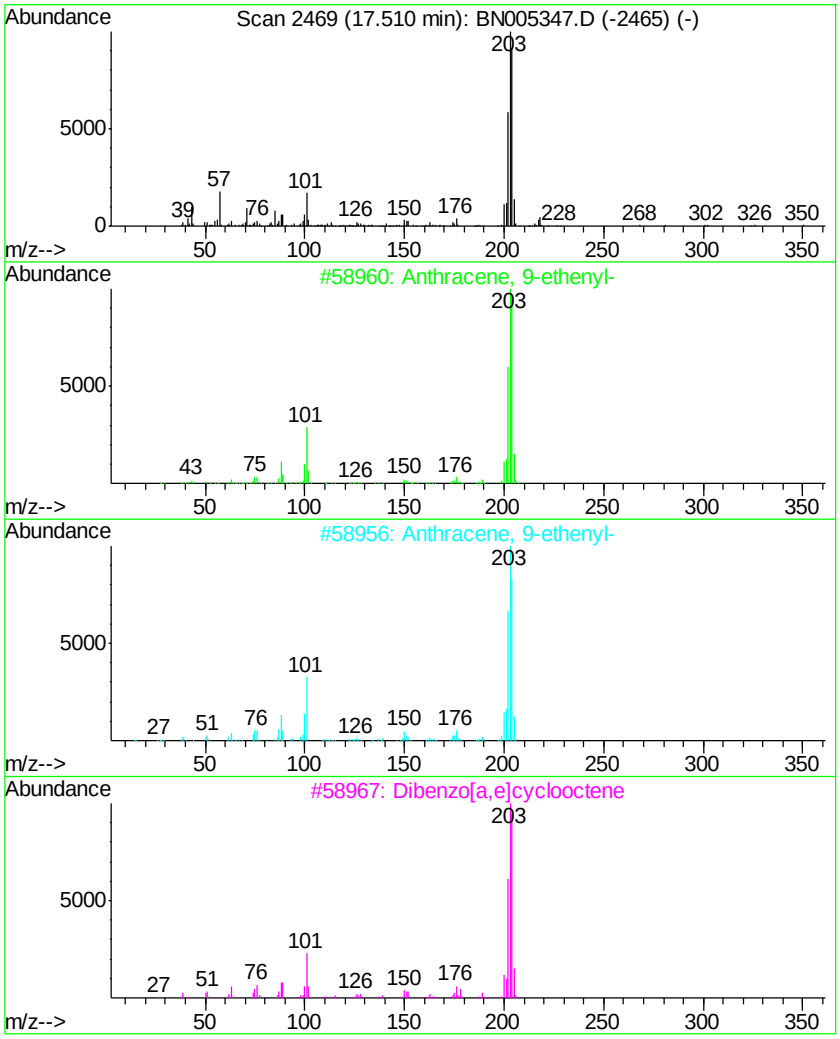
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

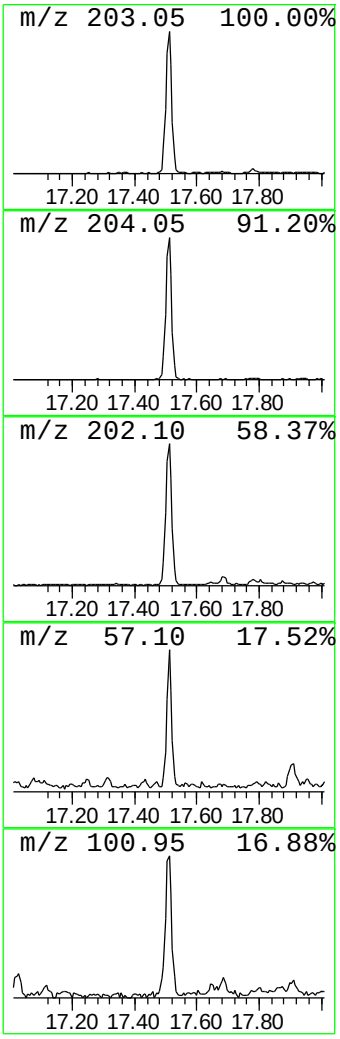
****

Peak Number 2 Anthracene, 9-ethenyl- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.51	2.03 ng/ul	547867	Phenanthrene-d10	16.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	89
2	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	89
3	Dibenzo[a,e]cyclooctene	204	C16H12	000262-89-5	89
4	1H-Indene, 1-(phenylmethylene)-	204	C16H12	005394-86-5	76
5	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	76





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Sample : K2455-21DL 25X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : GAHS1DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

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

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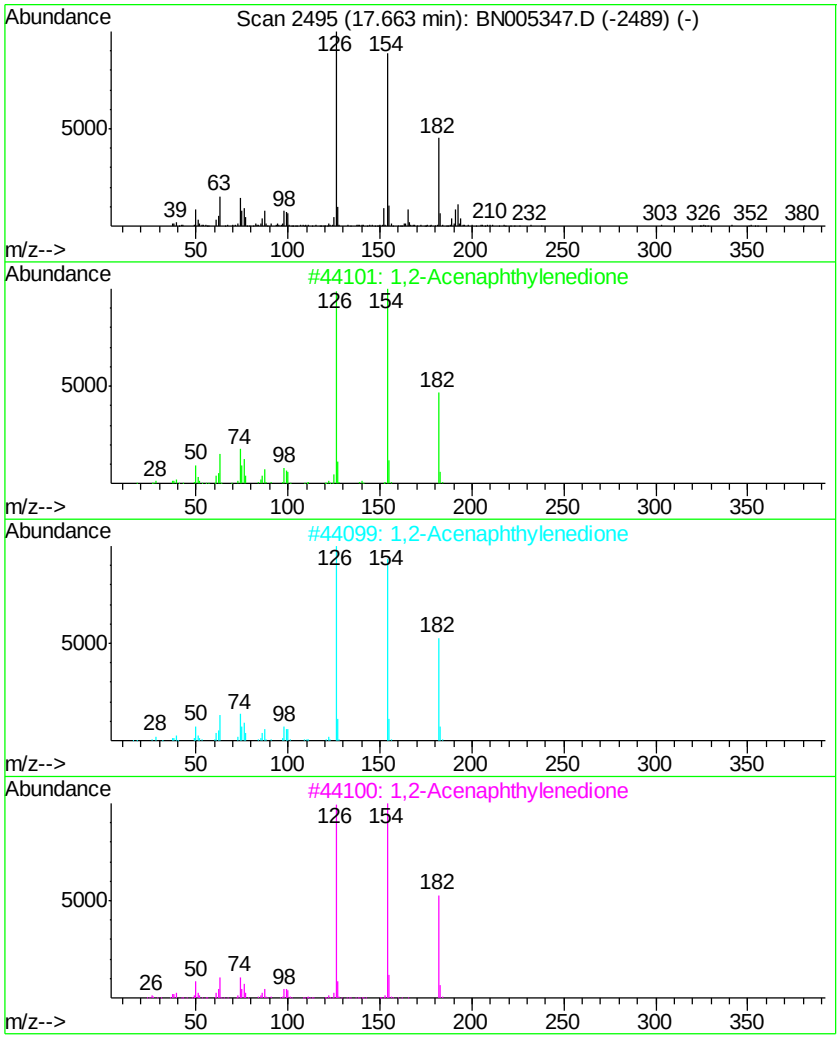
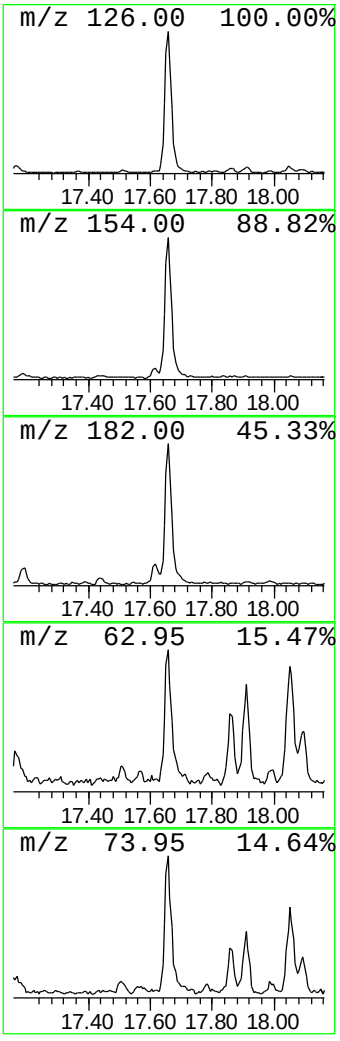
Peak Number 3 1,2-Acenaphthylenedione Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.66	3.44 ng/ul	929672	Phenanthrene-d10	16.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Acenaphthylenedione	182	C12H6O2	000082-86-0	98
2	1,2-Acenaphthylenedione	182	C12H6O2	000082-86-0	97
3	1,2-Acenaphthylenedione	182	C12H6O2	000082-86-0	96
4	1H-Benz[f]indene-1,2,3-trione	210	C13H6O3	020927-01-9	83
5	1H-Benz[f]indene-1,3(2H)-dione, ...	228	C13H8O4	038627-57-5	58





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042619\
Data File : BN005347.D
Acq On : 27 Apr 2019 09:09
Operator : JU/SJ
Sample : K2455-21DL 25X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : GAHS1DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

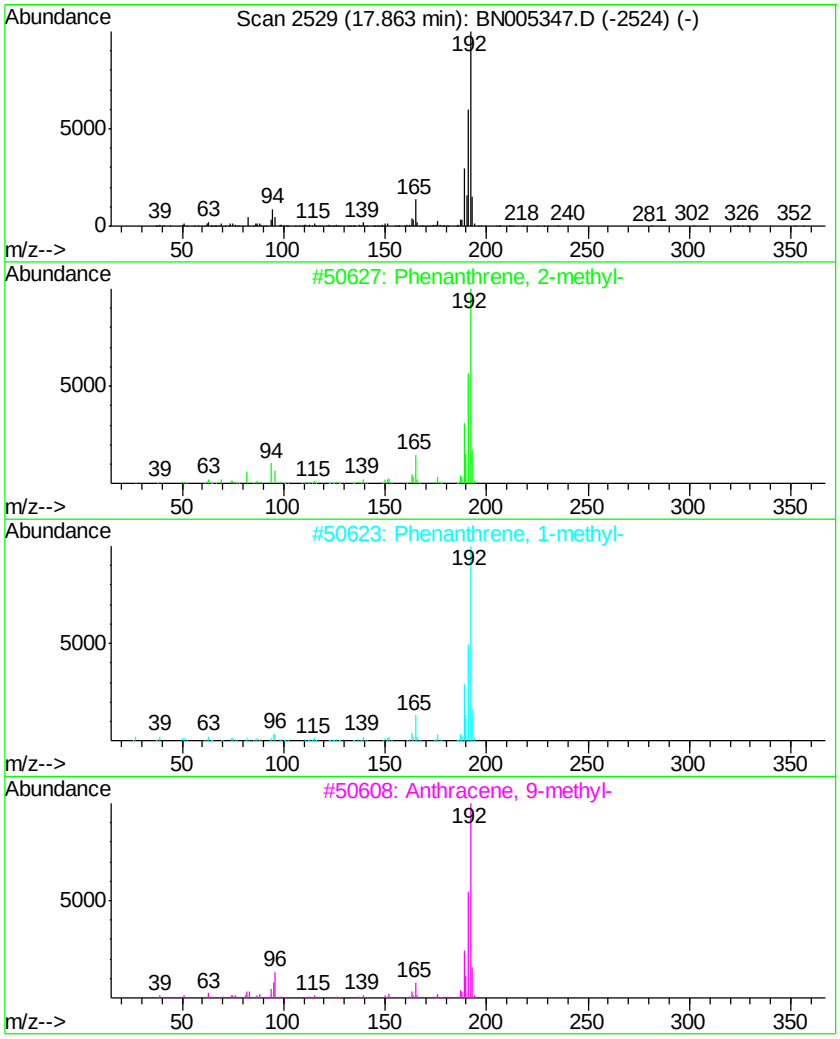
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

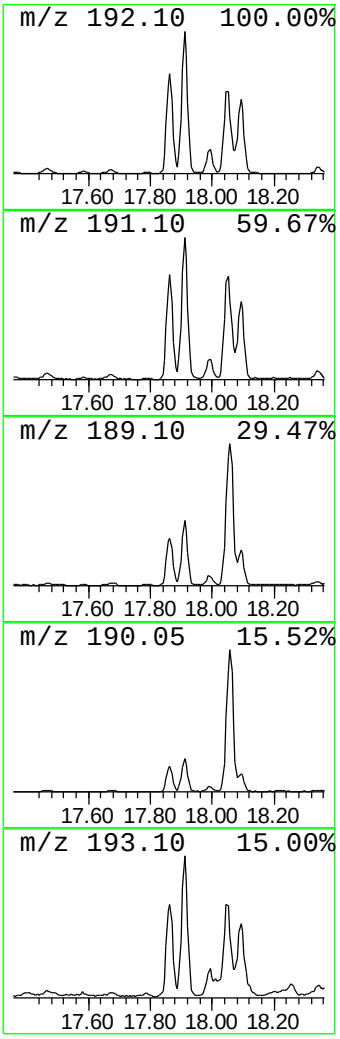
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.86	7.72 ng/ul	2085370	Phenanthrene-d10	16.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94





Library Search Compound Report

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Operator : JU/SJ
Sample : K2455-21DL 25X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : GAHS1DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

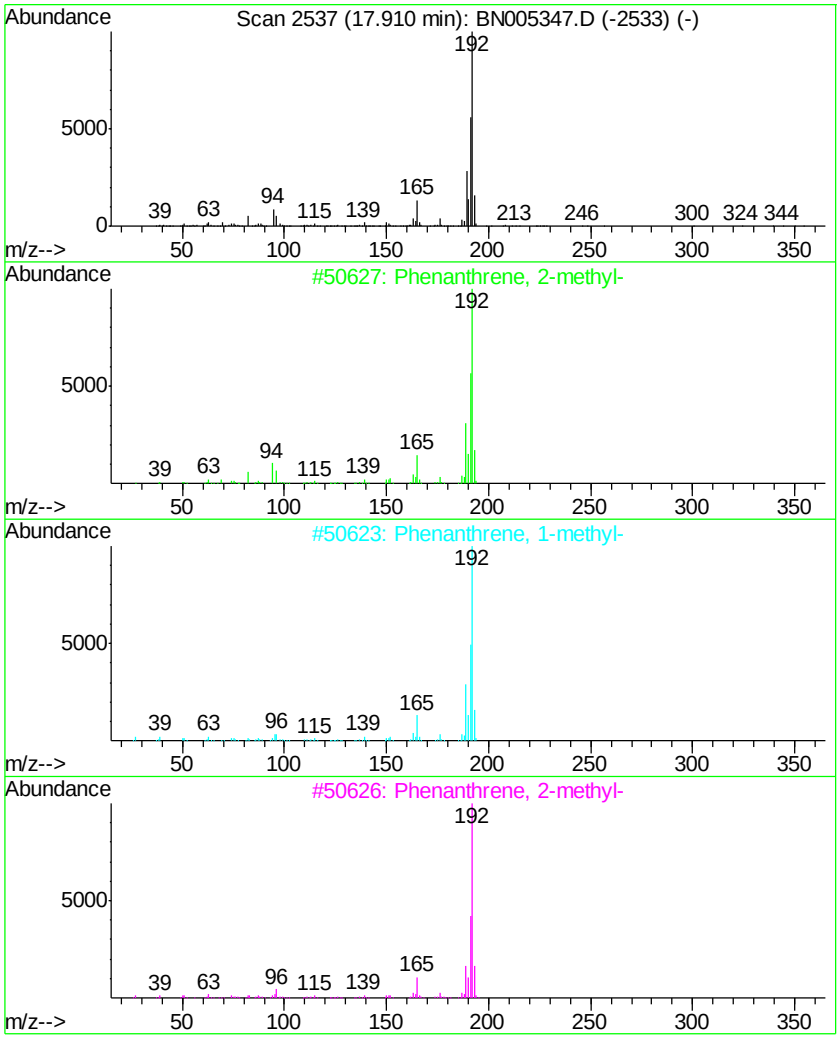
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

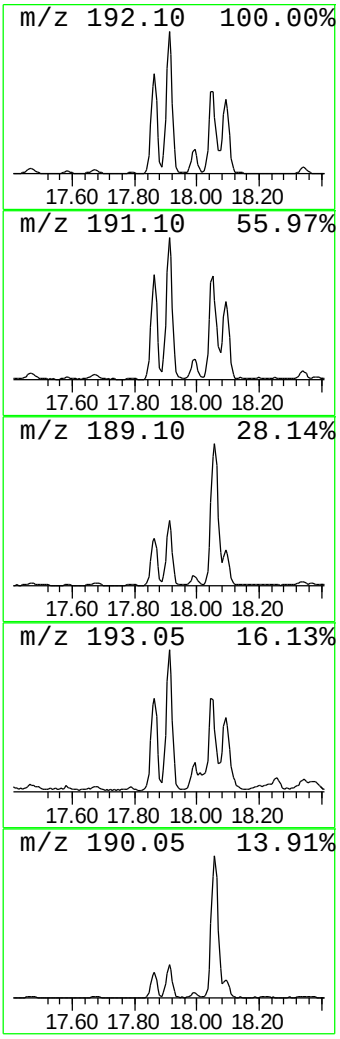
****

Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.91	11.53 ng/ul	3116440	Phenanthrene-d10	16.98

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	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96





Library Search Compound Report

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Data File : BN005347.D
Acq On : 27 Apr 2019 09:09
Operator : JU/SJ
Sample : K2455-21DL 25X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : GAHS1DL

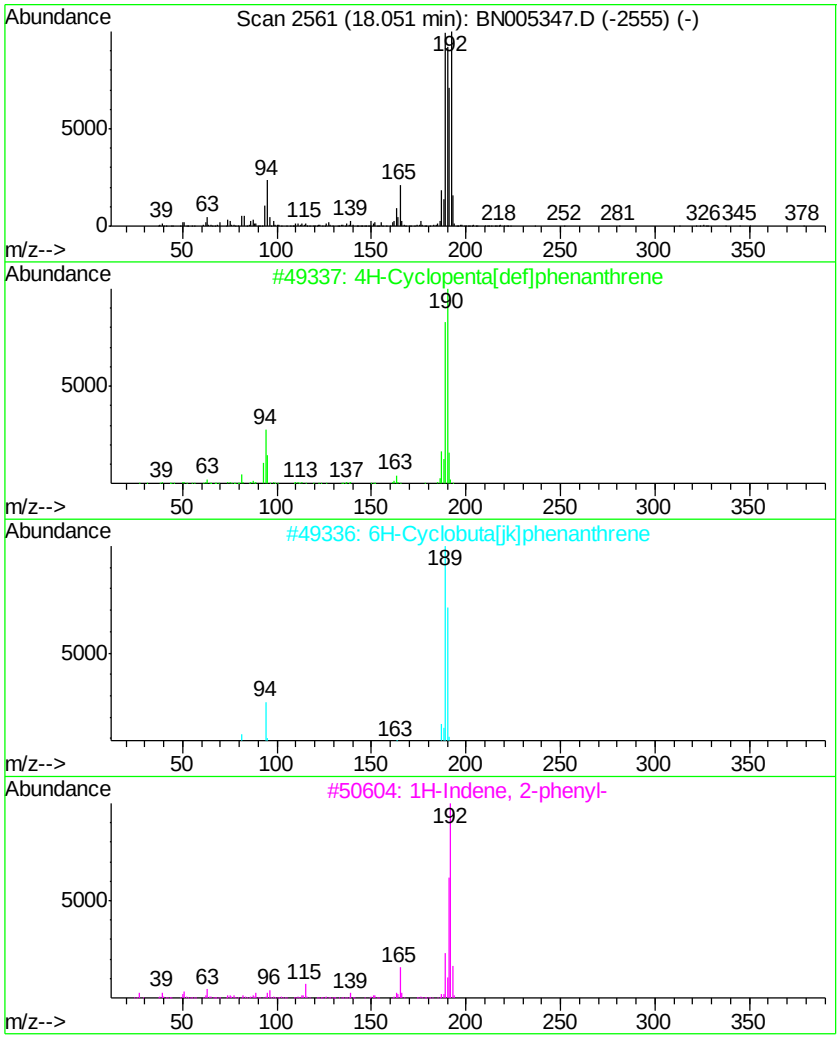
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

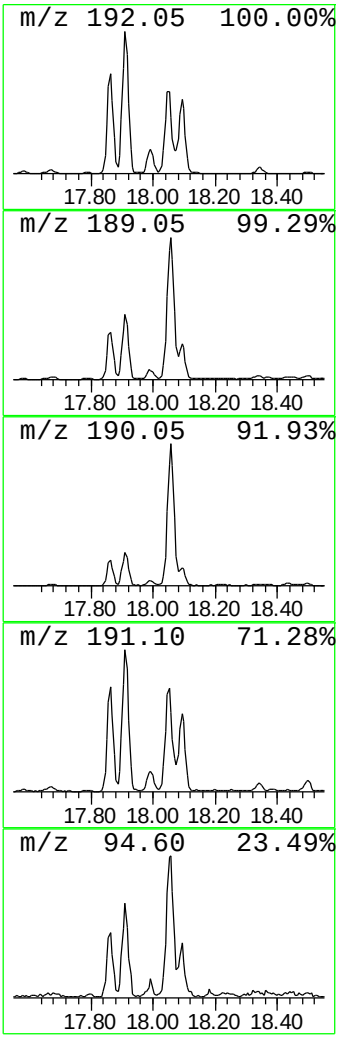
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.05	15.50 ng/ul	4188060	Phenanthrene-d10	16.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	46
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	46
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	46





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Sample : K2455-21DL 25X
Misc :
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Instrument : BNA_N
ClientSampleId : GAHS1DL

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Quant Title : SVOA CALIBRATION

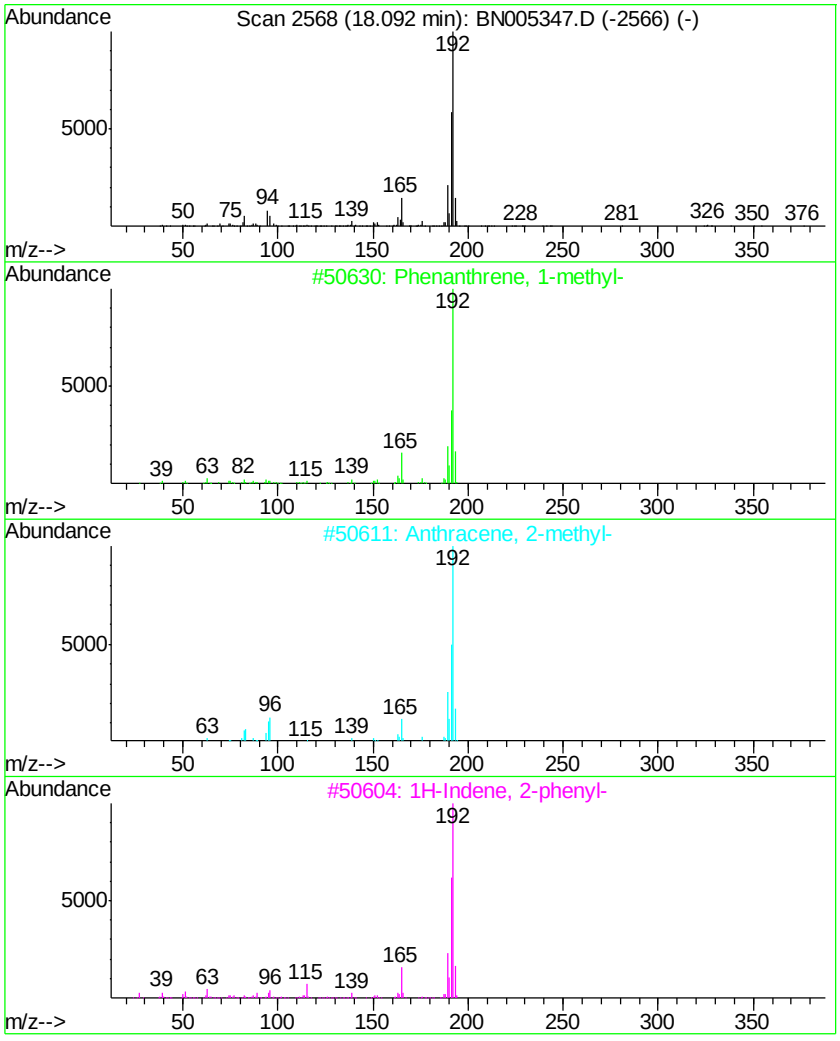
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

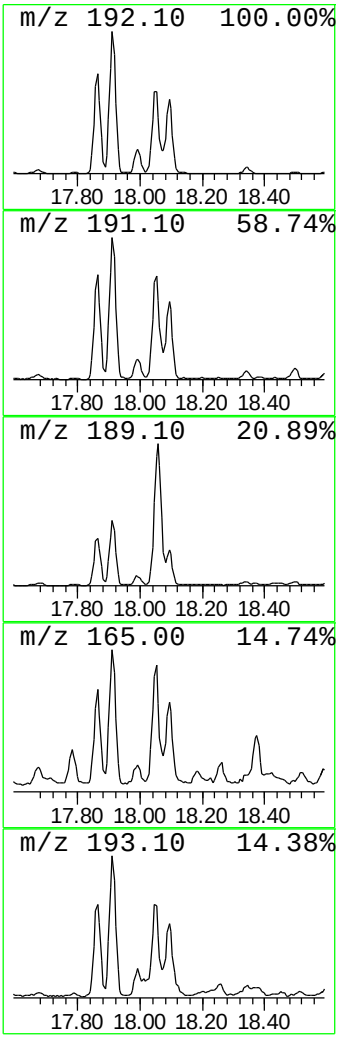
****

Peak Number 7 1H-Indene, 2-phenyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.09	5.58 ng/ul	1508180	Phenanthrene-d10	16.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	93
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	92





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Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : GAHS1DL

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Quant Title : SVOA CALIBRATION

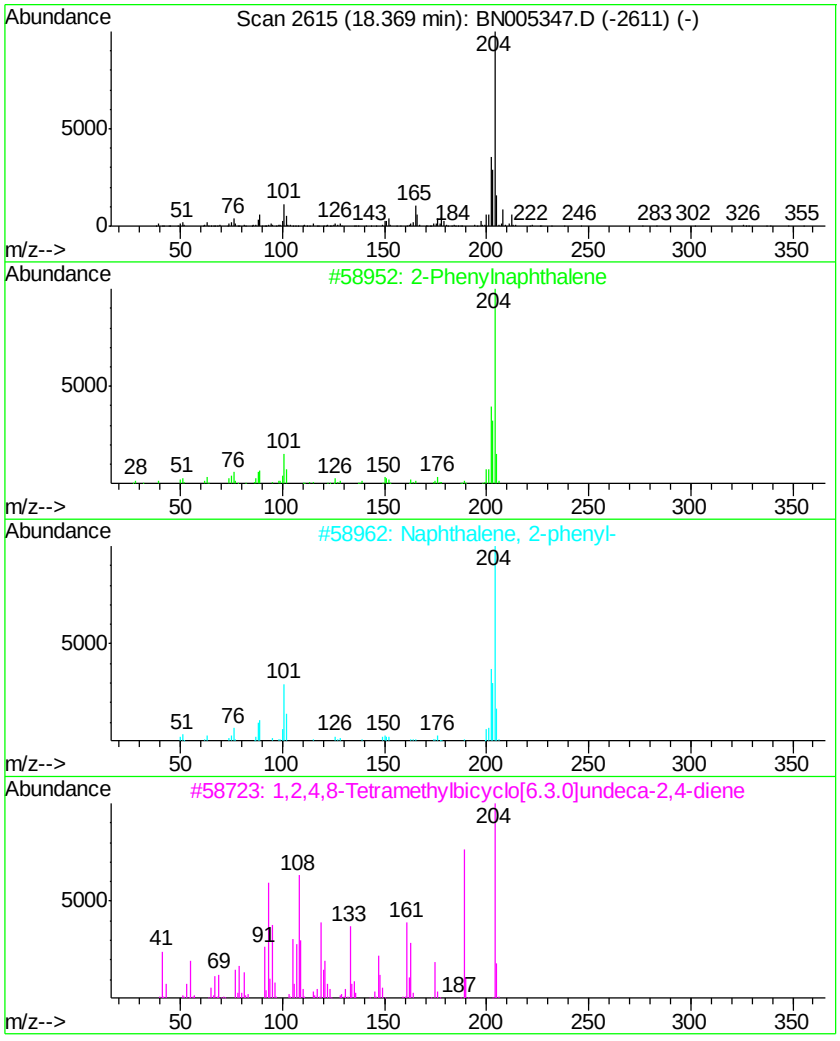
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

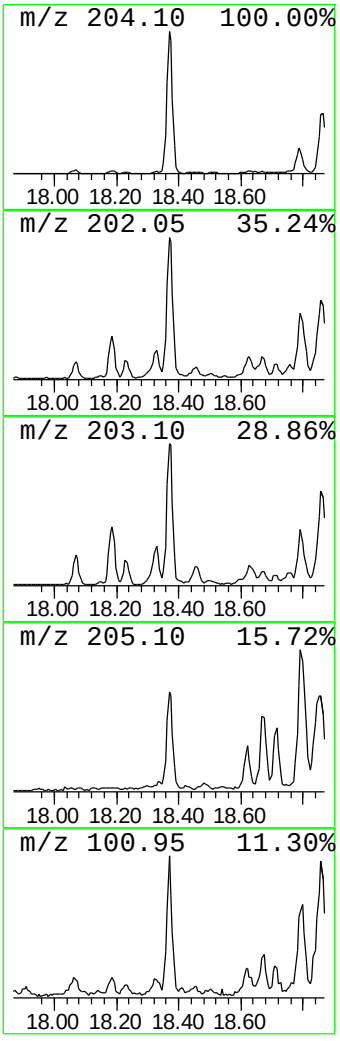
****

Peak Number 8 2-Phenylnaphthalene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.37	4.78 ng/ul	1291890	Phenanthrene-d10	16.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenylnaphthalene	204	C16H12	035465-71-5	89
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	83
4	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	80
5	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	80





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Sample : K2455-21DL 25X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : GAHS1DL

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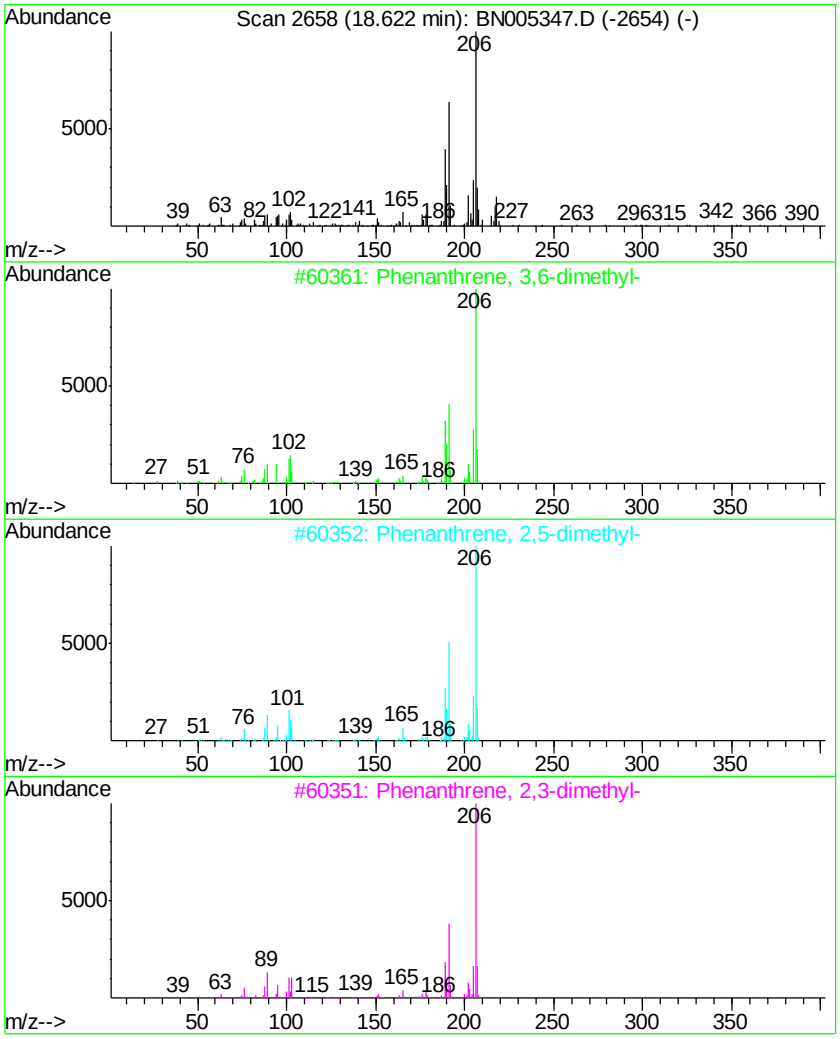
Quant Title : SVOA CALIBRATION

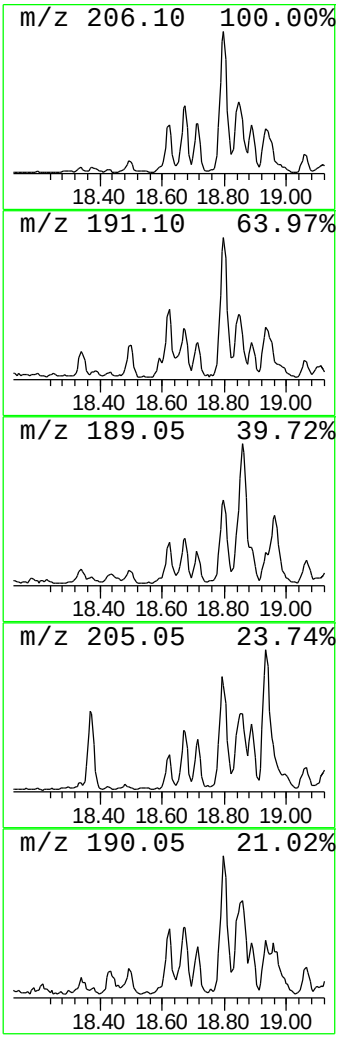
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Phenanthrene, 3,6-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.62	2.75 ng/ul	743759	Phenanthrene-d10	16.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	95
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90





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Acq On : 27 Apr 2019 09:09
Operator : JU/SJ
Sample : K2455-21DL 25X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : GAHS1DL

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Quant Title : SVOA CALIBRATION

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

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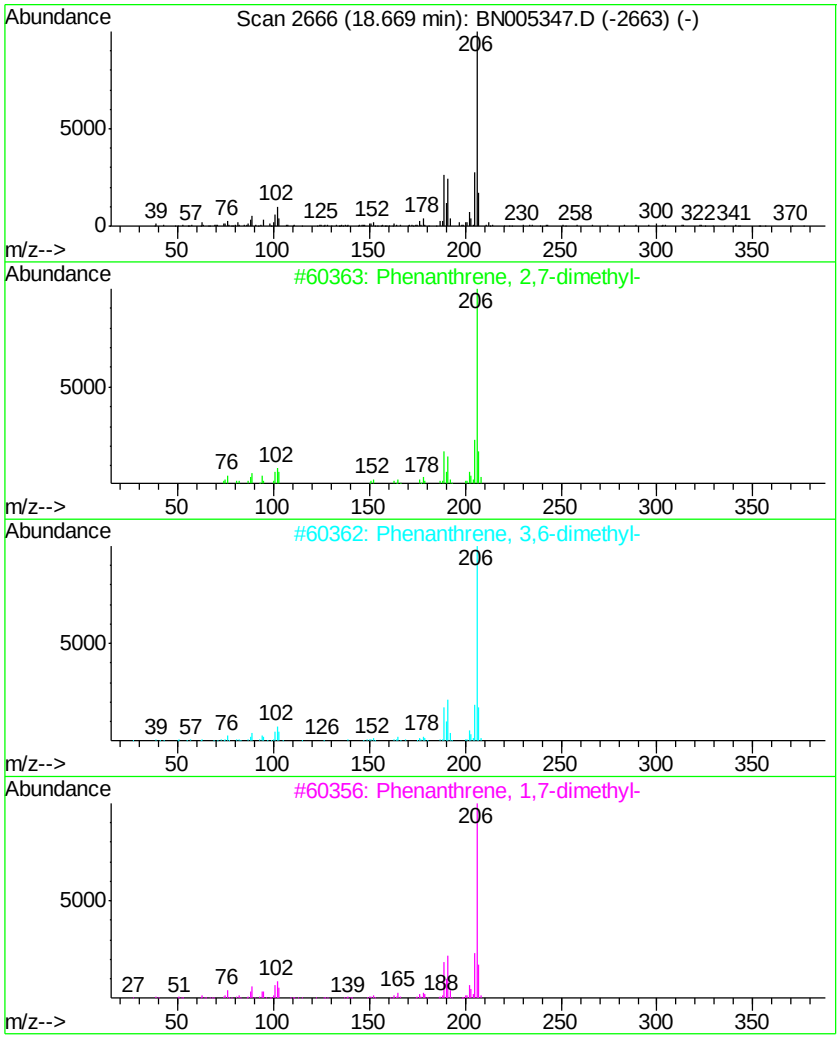
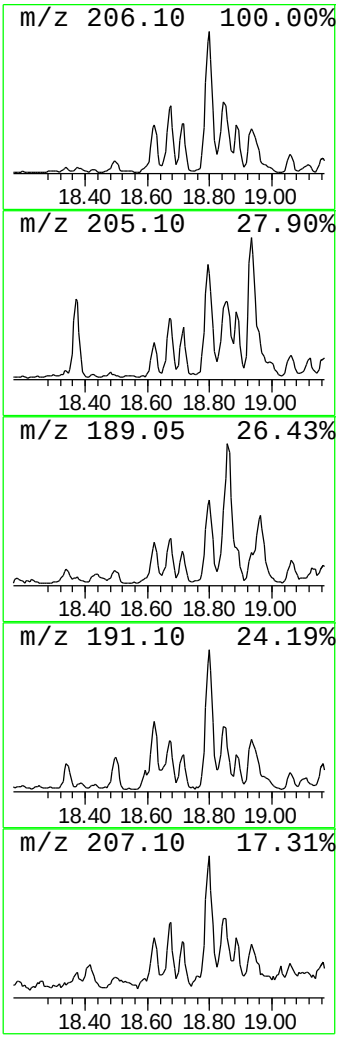
Peak Number 10 Phenanthrene, 2,7-dimethyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.67	2.19 ng/ul	590571	Phenanthrene-d10	16.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	91
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	91
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	91
5	di-p-Tolylacetylene	206	C16H14	002789-88-0	91





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Sample : K2455-21DL 25X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_N
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Quant Title : SVOA CALIBRATION

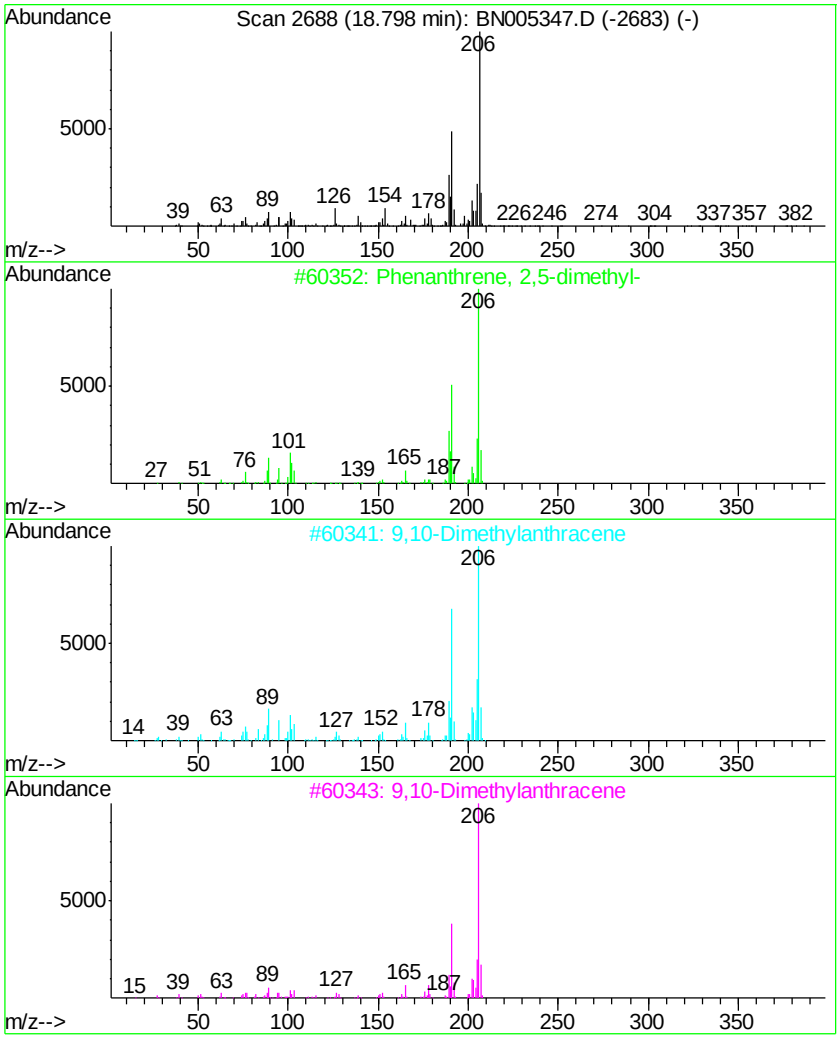
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

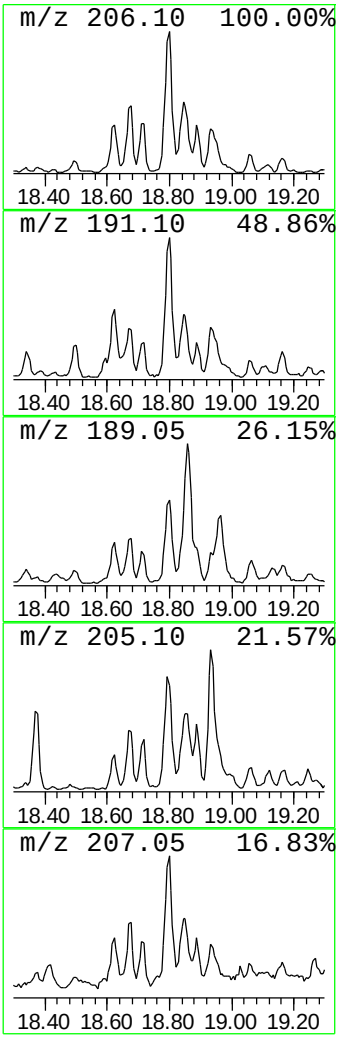
****

Peak Number 11 Phenanthrene, 2,5-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.80	6.63 ng/ul	1790110	Phenanthrene-d10	16.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	95
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	92
5	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	89





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Operator : JU/SJ
Sample : K2455-21DL 25X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : GAHS1DL

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Quant Title : SVOA CALIBRATION

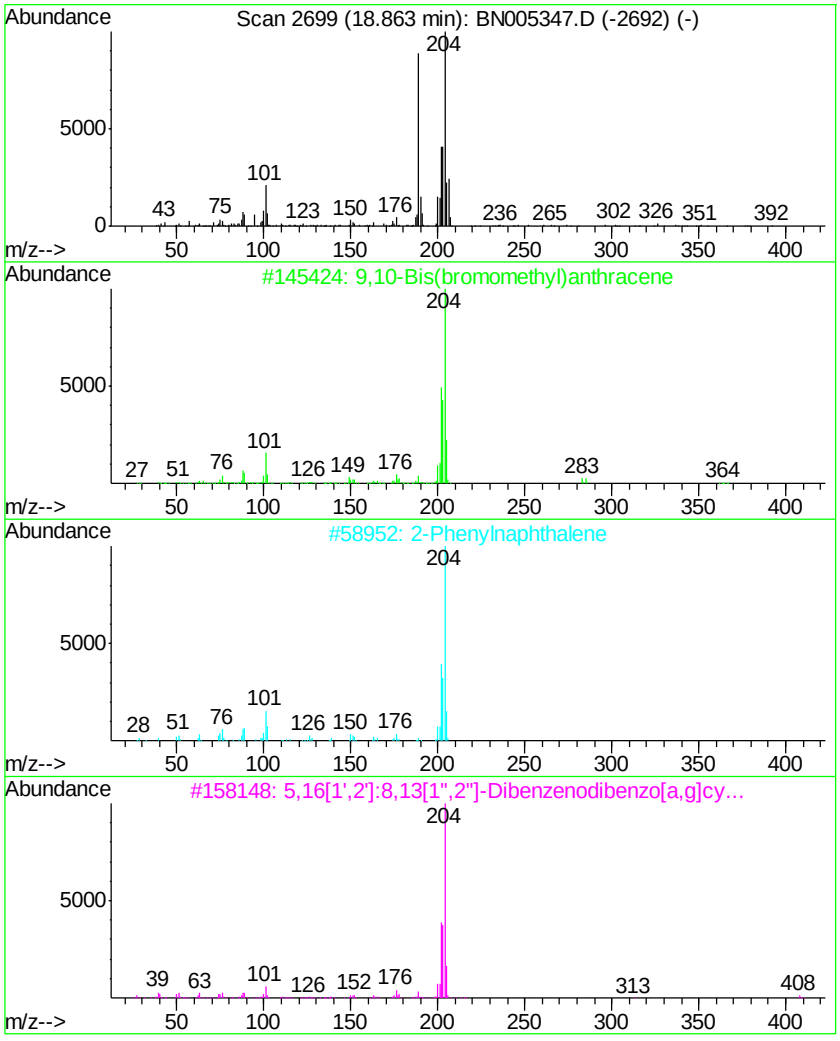
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

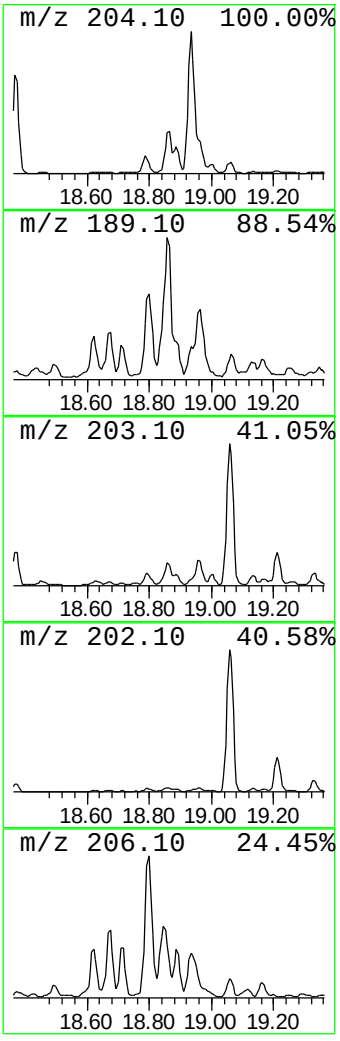
****

Peak Number 12 unknown-01 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.86	4.57 ng/ul	1233530	Phenanthrene-d10	16.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	46
2	2-Phenylnaphthalene	204	C16H12	035465-71-5	42
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	38
4	5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	38
5	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	35





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Sample : K2455-21DL 25X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_N
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Quant Title : SVOA CALIBRATION

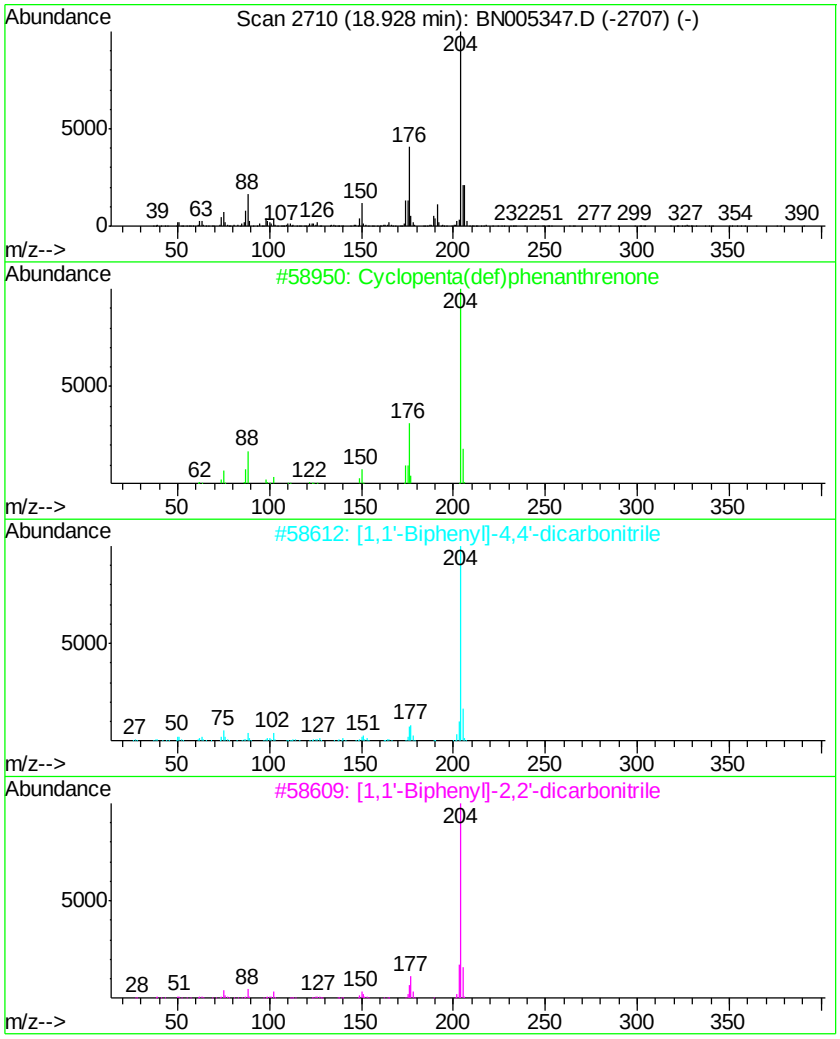
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

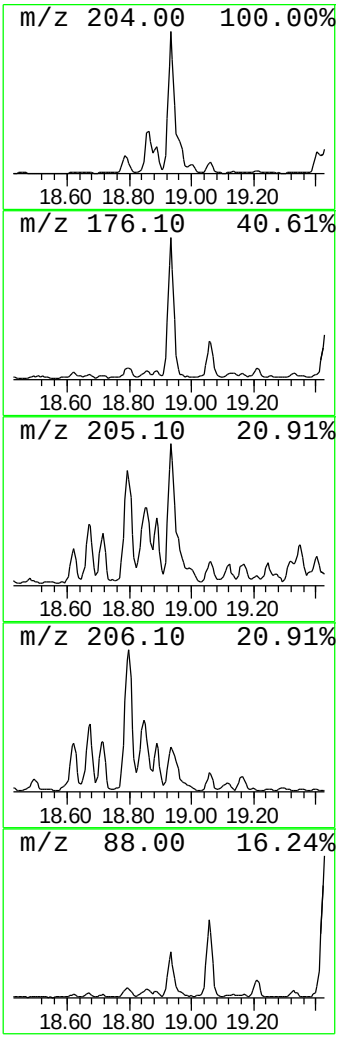
****

Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.93	8.79 ng/ul	2375410	Phenanthrene-d10	16.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	97
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	52
3	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	47
4	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	43
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	43





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Misc :
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ClientSampleId : GAHS1DL

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Quant Title : SVOA CALIBRATION

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

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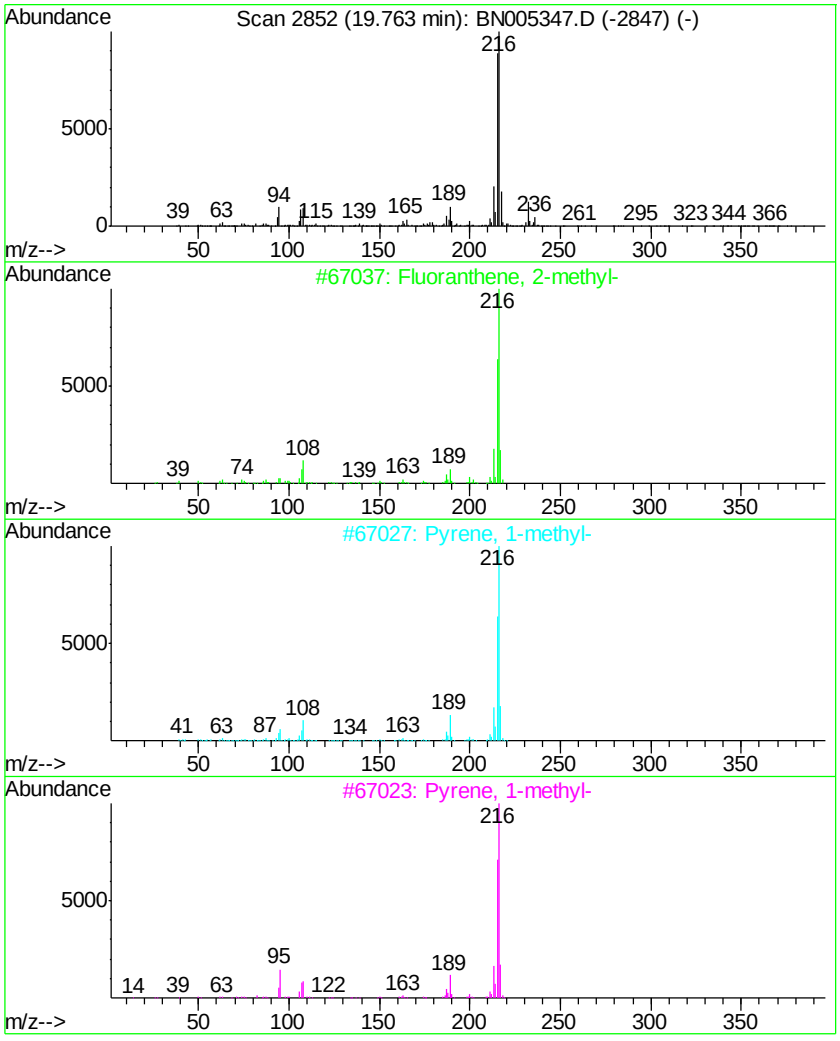
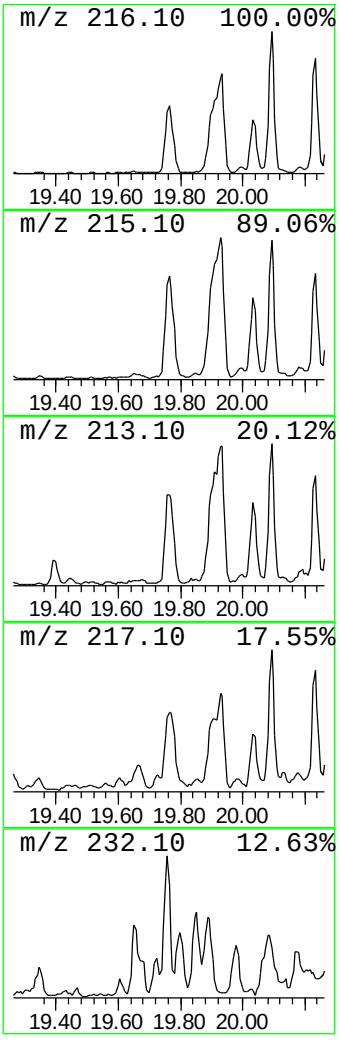
Peak Number 15 Fluoranthene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.76	4.92 ng/ul	2162910	Chrysene-d12	21.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90





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Quant Title : SVOA CALIBRATION

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

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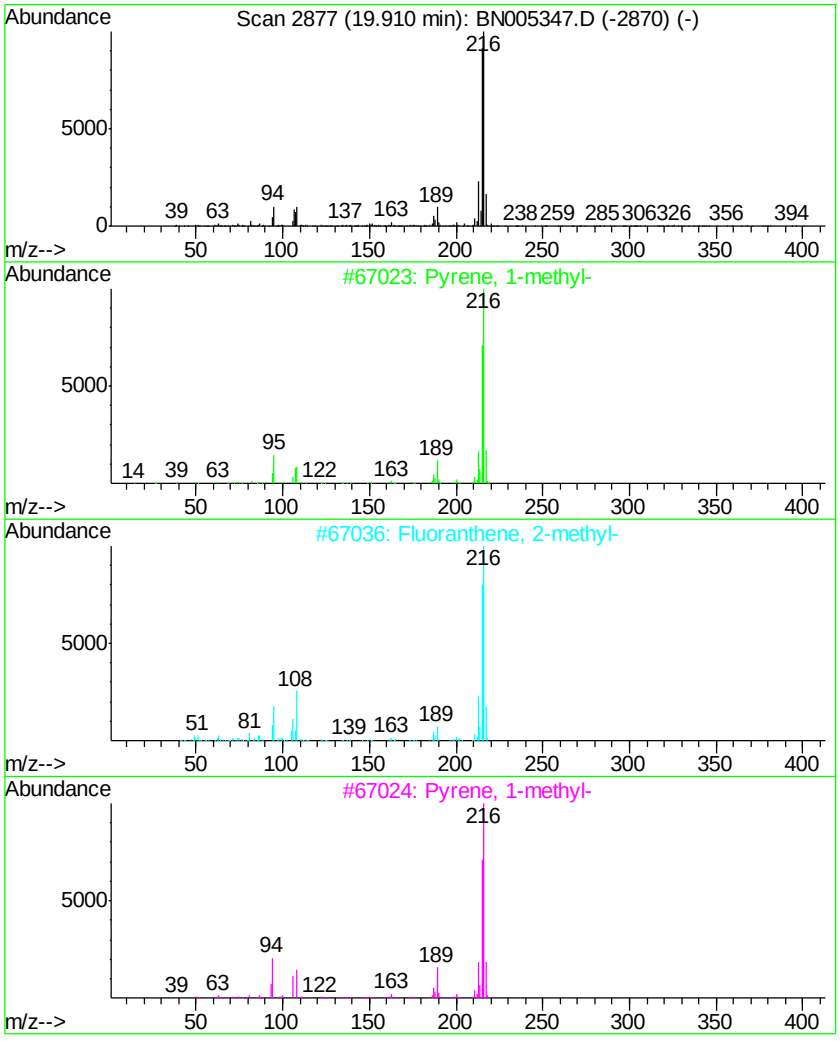
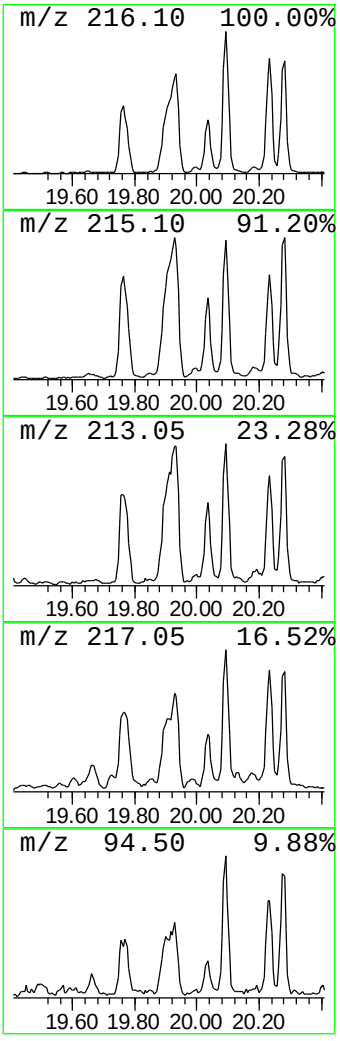
Peak Number 16 Pyrene, 1-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.91	4.06 ng/ul	1784950	Chrysene-d12	21.22

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	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	92
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87





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Sample : K2455-21DL 25X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : GAHS1DL

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Quant Title : SVOA CALIBRATION

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

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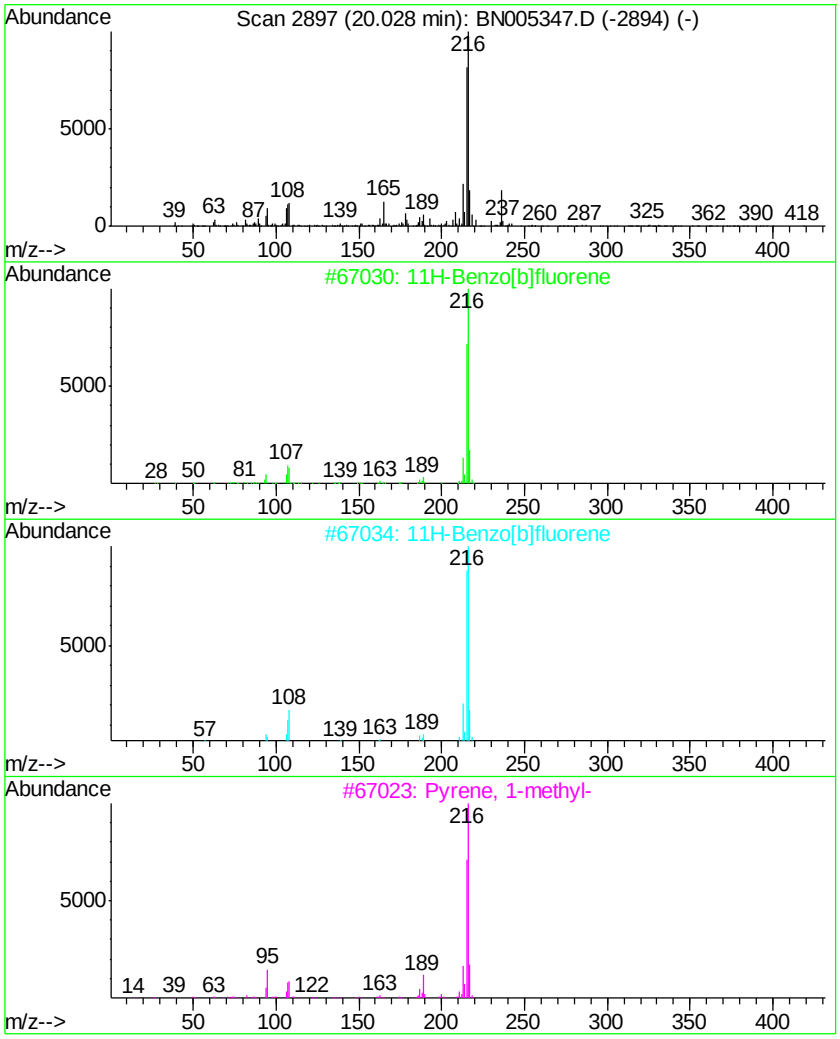
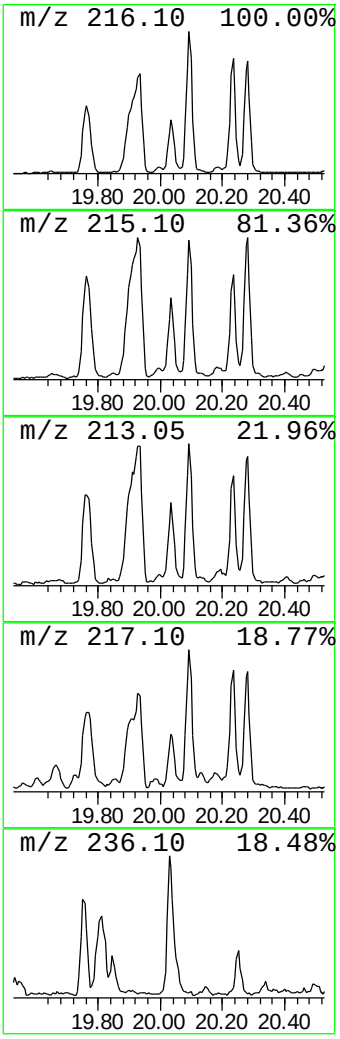
Peak Number 17 11H-Benzo[b]fluorene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.03	2.24 ng/ul	985149	Chrysene-d12	21.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	83
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81





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Operator : JU/SJ
Sample : K2455-21DL 25X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : GAHS1DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

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

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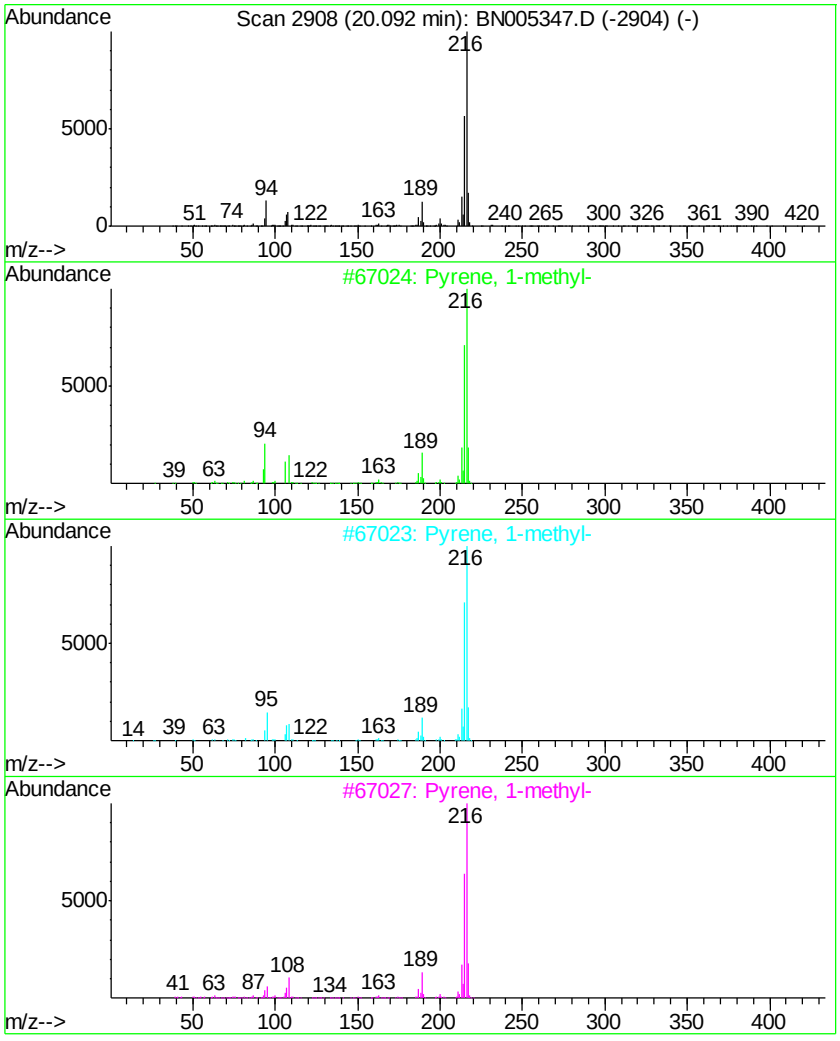
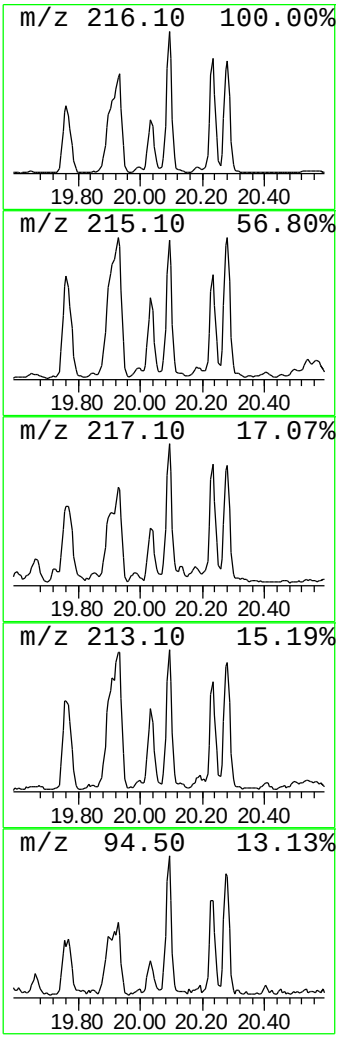
Peak Number 18 Pyrene, 4-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.09	4.25 ng/ul	1868500	Chrysene-d12	21.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	95
5	Pyrene, 4-methyl-	216	C17H12	003353-12-6	95





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042619\
Data File : BN005347.D
Acq On : 27 Apr 2019 09:09
Operator : JU/SJ
Sample : K2455-21DL 25X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : GAHS1DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

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

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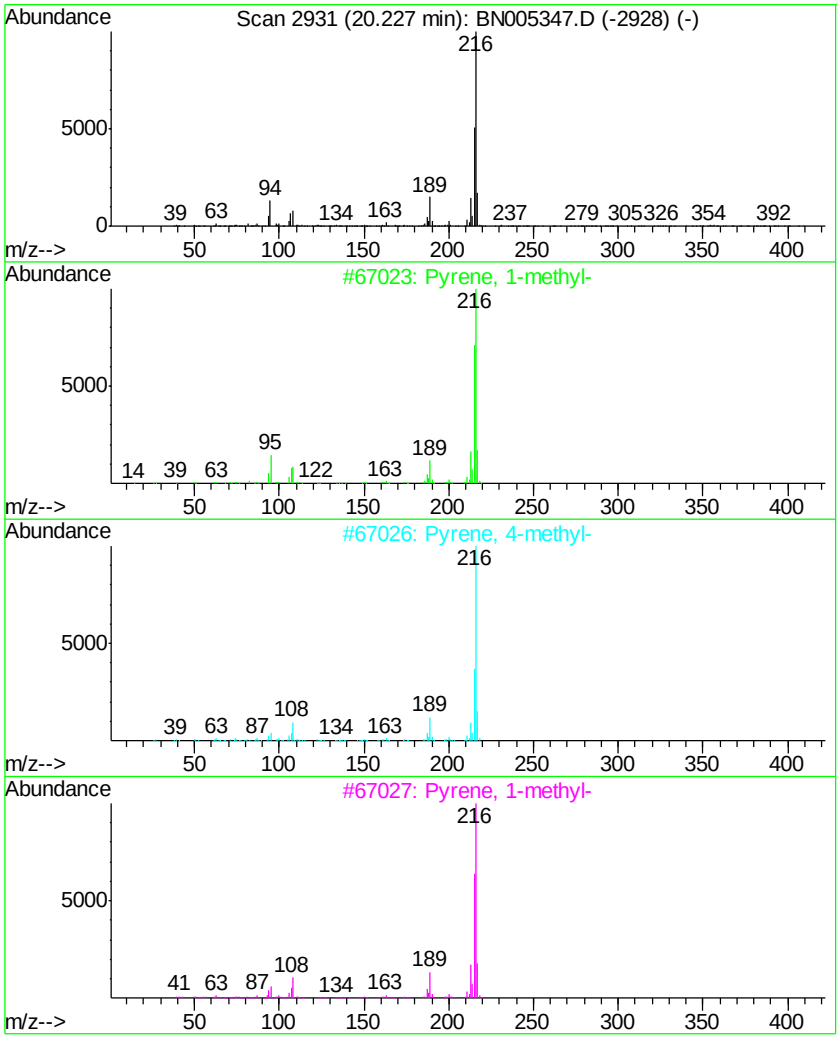
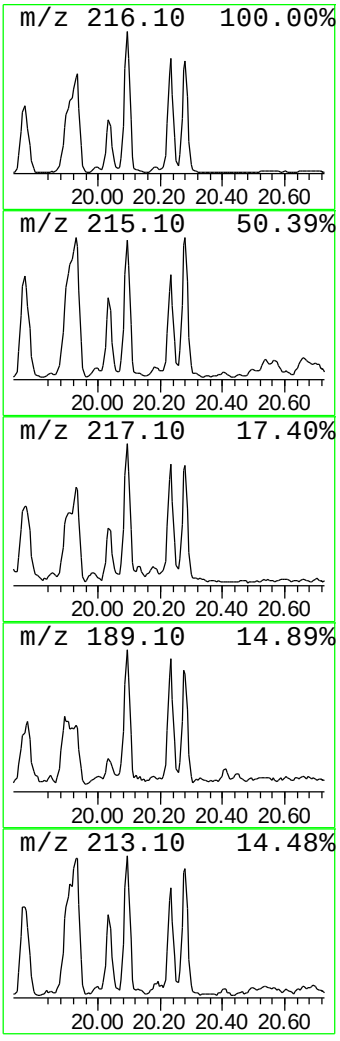
Peak Number 19 11H-Benzo[a]fluorene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.23	3.38 ng/ul	1485040	Chrysene-d12	21.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Pyrene, 4-methyl-	216	C17H12	003353-12-6	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	83





Library Search Compound Report

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Data File : BN005347.D
Acq On : 27 Apr 2019 09:09
Operator : JU/SJ
Sample : K2455-21DL 25X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : GAHS1DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

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

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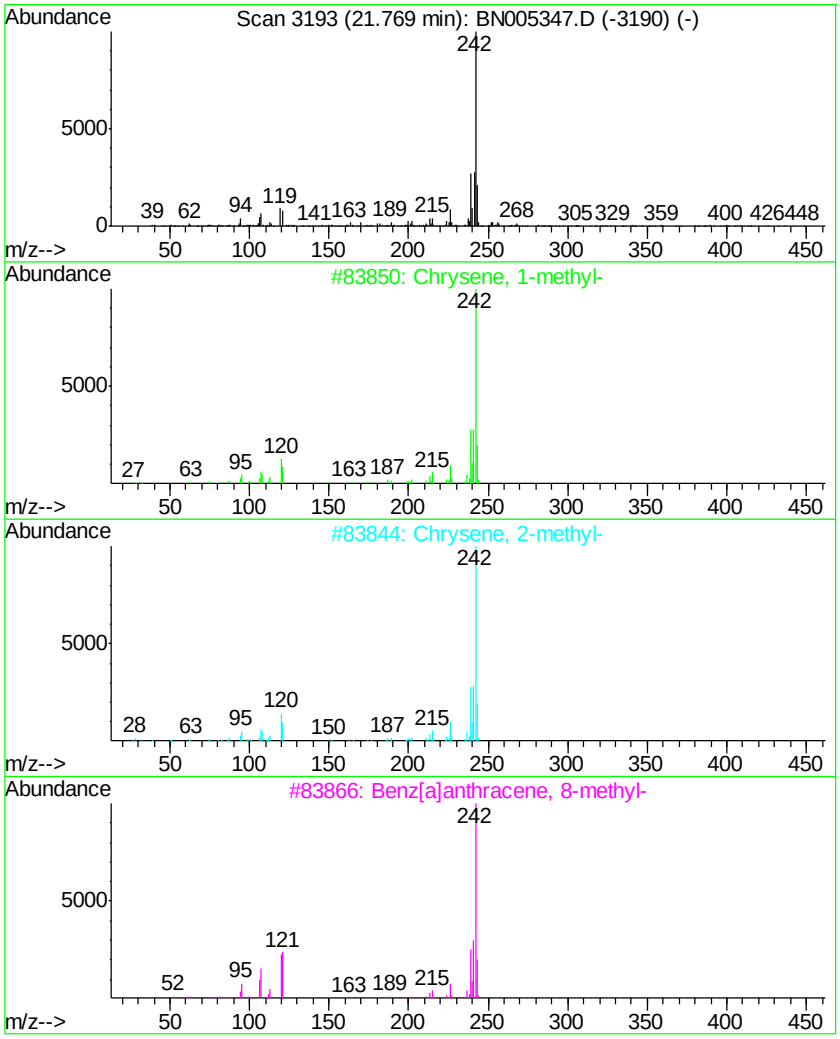
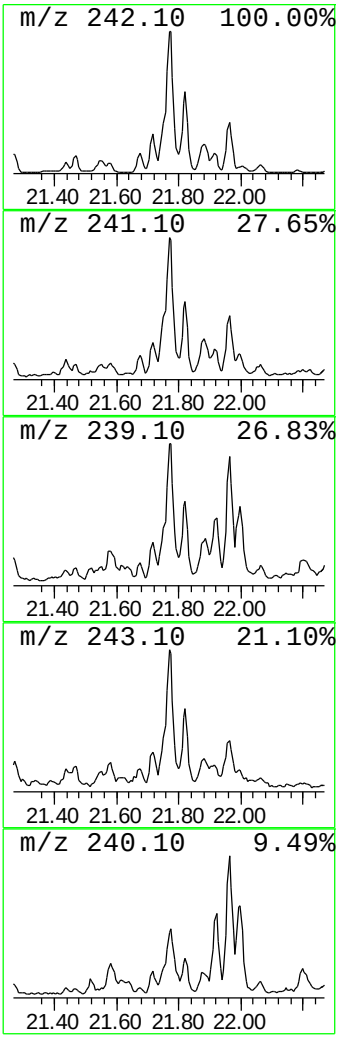
Peak Number 21 Chrysene, 1-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.77	2.93 ng/ul	1289790	Chrysene-d12	21.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chrysene, 1-methyl-	242	C19H14	003351-28-8	98
2	Chrysene, 2-methyl-	242	C19H14	003351-32-4	96
3	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	93
4	Benzo[c]phenanthrene, 3-methyl-	242	C19H14	002381-19-3	93
5	Chrysene, 4-methyl-	242	C19H14	003351-30-2	90





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Data File : BN005347.D
Acq On : 27 Apr 2019 09:09
Operator : JU/SJ
Sample : K2455-21DL 25X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : GAHS1DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

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

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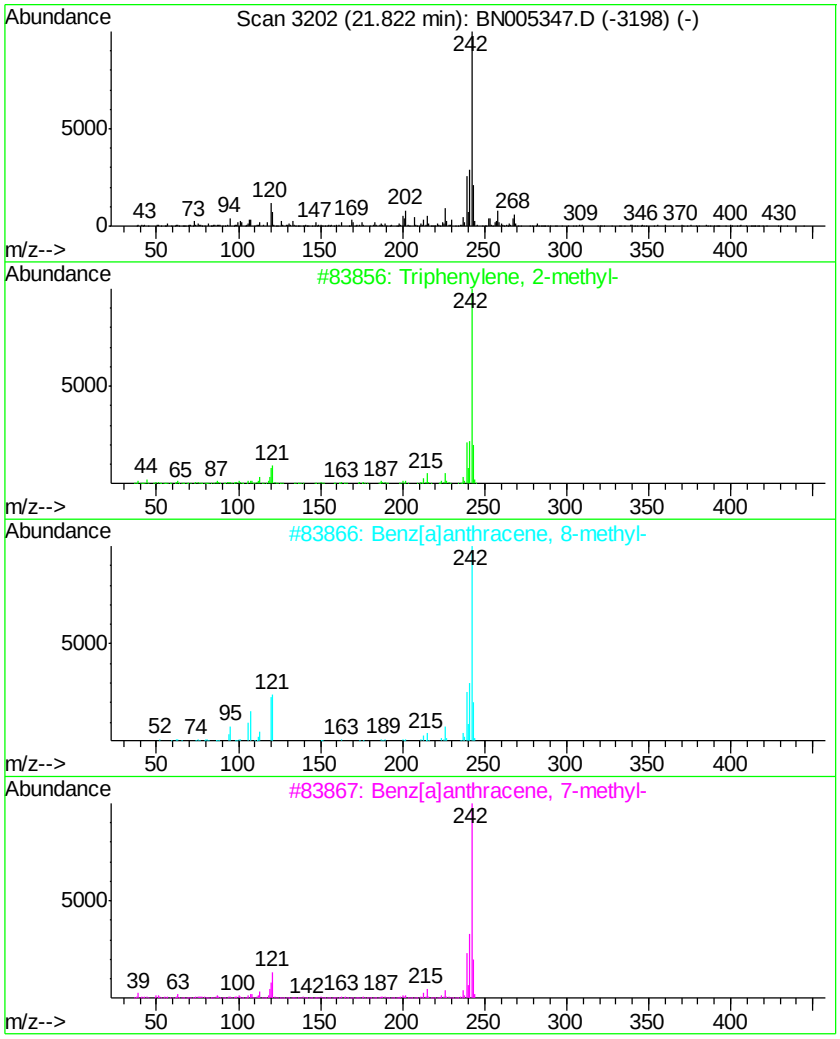
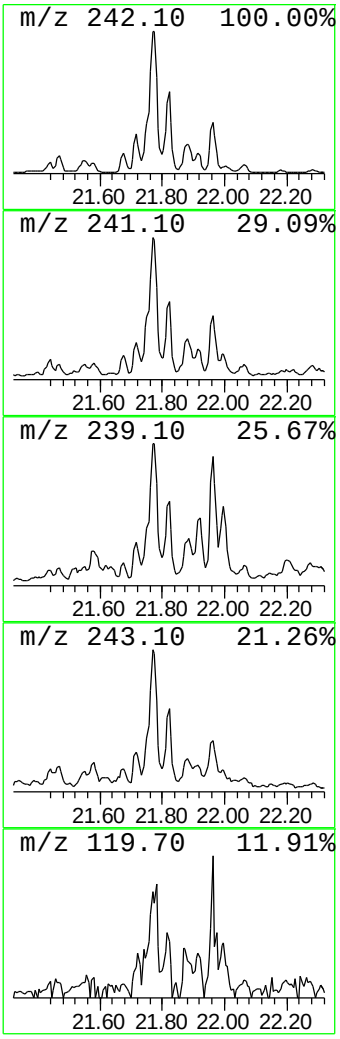
Peak Number 22 Triphenylene, 2-methyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.82	2.15 ng/ul	944997	Chrysene-d12	21.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	96
2	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	94
3	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	90
4	Benz[a]anthracene, 1-methyl-	242	C19H14	002498-77-3	89
5	Chrysene, 6-methyl-	242	C19H14	001705-85-7	89





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042619\
Data File : BN005347.D
Acq On : 27 Apr 2019 09:09
Operator : JU/SJ
Sample : K2455-21DL 25X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : GAHS1DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

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

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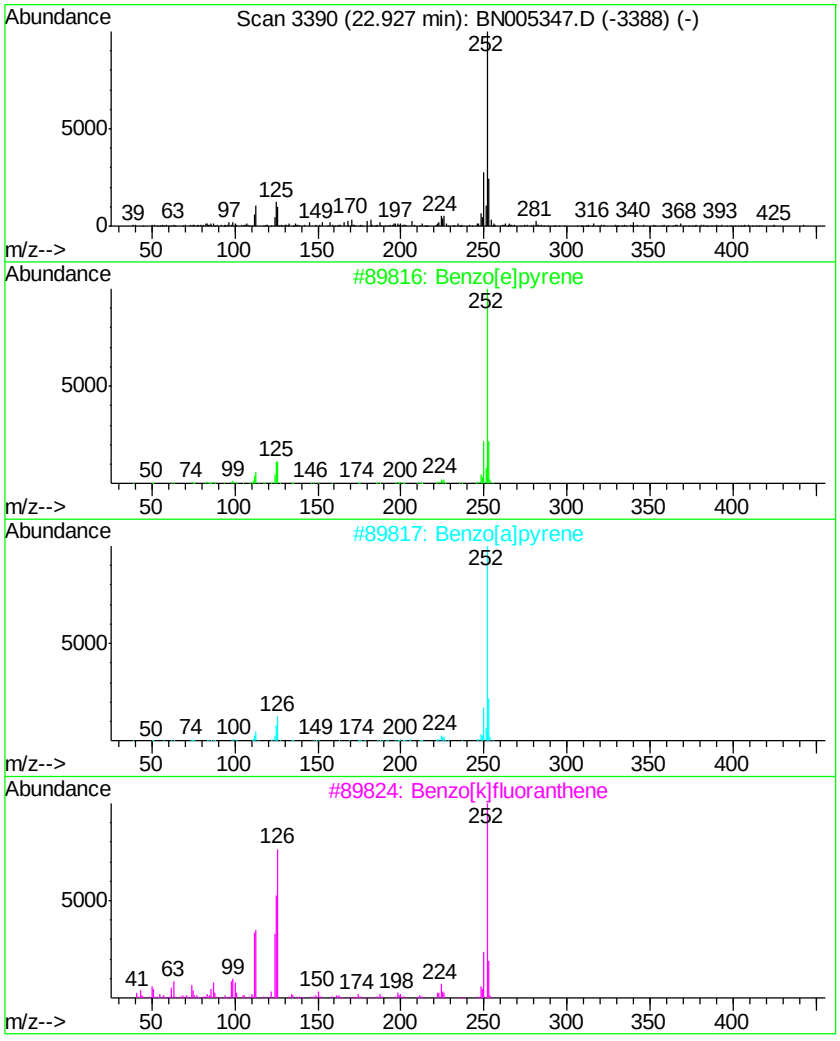
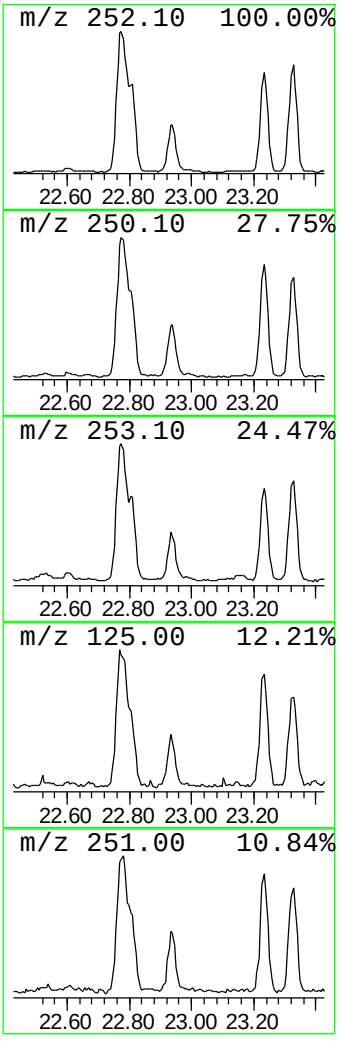
Peak Number 23 Benzo[e]pyrene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.93	3.53 ng/ul	683284	Perylene-d12	23.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benzo[a]pyrene	252	C20H12	000050-32-8	95
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	91
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042619\
Data File : BN005347.D
Acq On : 27 Apr 2019 09:09
Operator : JU/SJ
Sample : K2455-21DL 25X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : GAHS1DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA 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
1(2H)-Acenaphthyl...	15.96	2.3	ng/ul	624983	4	16.98	5403880	20.0
Anthracene, 9-eth...	17.51	2.0	ng/ul	547867	4	16.98	5403880	20.0
1,2-Acenaphthylen...	17.66	3.4	ng/ul	929672	4	16.98	5403880	20.0
Phenanthrene, 2-m...	17.86	7.7	ng/ul	2085370	4	16.98	5403880	20.0
Phenanthrene, 1-m...	17.91	11.5	ng/ul	3116440	4	16.98	5403880	20.0
4H-Cyclopenta[def...	18.05	15.5	ng/ul	4188060	4	16.98	5403880	20.0
1H-Indene, 2-phenyl-	18.09	5.6	ng/ul	1508180	4	16.98	5403880	20.0
2-Phenylnaphthalene	18.37	4.8	ng/ul	1291890	4	16.98	5403880	20.0
Phenanthrene, 3,6...	18.62	2.8	ng/ul	743759	4	16.98	5403880	20.0
Phenanthrene, 2,7...	18.67	2.2	ng/ul	590571	4	16.98	5403880	20.0
Phenanthrene, 2,5...	18.80	6.6	ng/ul	1790110	4	16.98	5403880	20.0
unknown-01	18.86	4.6	ng/ul	1233530	4	16.98	5403880	20.0
Cyclopenta(def)ph...	18.93	8.8	ng/ul	2375410	4	16.98	5403880	20.0
Fluoranthene, 2-m...	19.76	4.9	ng/ul	2162910	5	21.22	8799500	20.0
Pyrene, 1-methyl-	19.91	4.1	ng/ul	1784950	5	21.22	8799500	20.0
11H-Benzo[b]fluorene	20.03	2.2	ng/ul	985149	5	21.22	8799500	20.0
Pyrene, 4-methyl-	20.09	4.3	ng/ul	1868500	5	21.22	8799500	20.0
11H-Benzo[a]fluorene	20.23	3.4	ng/ul	1485040	5	21.22	8799500	20.0
Chrysene, 1-methyl-	21.77	2.9	ng/ul	1289790	5	21.22	8799500	20.0
Triphenylene, 2-m...	21.82	2.1	ng/ul	944997	5	21.22	8799500	20.0
Benzo[e]pyrene	22.93	3.5	ng/ul	683284	6	23.42	3876450	20.0