LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM102319\
Data File : BM023352.D
Acq On : 23 Oct 2019 21:23
Operator : JU
Sample : K5378-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

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_M\METHODS\SOM-EPA-BM102319MA.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	6.816	644	651	668	rVB	2765181	4788206	5.21%	0.484%
2	6.981	672	679	694	rBV	2339891	3797621	4.13%	0.384%
3	7.175	705	712	724	rVV	3095594	4838186	5.26%	0.489%
4	7.640	784	791	798	rBV	2821990	4418634	4.80%	0.447%
5	8.345	904	911	920	rBV	2859598	4579093	4.98%	0.463%
6	8.787	978	986	994	rBV	3131082	5073535	5.52%	0.513%
7	9.504	1099	1108	1117	rBV	2601325	4294982	4.67%	0.434%
8	10.045	1192	1200	1212	rVB	4187360	6794093	7.39%	0.687%
9	10.422	1256	1264	1270	rBV	4080888	6959690	7.57%	0.704%
10	10.551	1279	1286	1300	rBV	2002976	3598415	3.91%	0.364%
11	13.704	1816	1822	1826	rVV	7167390	9891180	10.75%	1.000%
12	13.751	1826	1830	1836	rVB	3009286	3992260	4.34%	0.404%
13	13.974	1860	1868	1890	rBV2	8400815	15289045	16.62%	1.546%
14	14.286	1913	1921	1927	rBV	6430936	9387107	10.21%	0.949%
15	14.486	1949	1955	1964	rBV	1529706	2329965	2.53%	0.236%
16	14.686	1984	1989	1991	rVV	584646	912555	0.99%	0.092%
17	15.280	2084	2090	2096	rBV	10076345	14896357	16.20%	1.506%
18	15.404	2106	2111	2118	rBV	2309068	3354005	3.65%	0.339%
19	15.780	2169	2175	2184	rVV	625862	1312380	1.43%	0.133%
20	16.574	2302	2310	2314	rBV2	576258	995043	1.08%	0.101%
21	16.686	2324	2329	2337	rVB	3807261	5469820	5.95%	0.553%
22	16.768	2337	2343	2350	rBV4	638764	1631415	1.77%	0.165%
23	16.851	2350	2357	2362	rVV	1588823	2399817	2.61%	0.243%
24	17.033	2382	2388	2391	rVV2	6359279	9754348	10.61%	0.986%
25	17.080	2391	2396	2401	rVV	35516780	51849347	56.38%	5.242%
26	17.133	2401	2405	2408	rVV	10734012	15024619	16.34%	1.519%
27	17.168	2408	2411	2416	rVV	6774388	8685908	9.44%	0.878%
28	17.433	2447	2456	2461	rBV	4726376	7204337	7.83%	0.728%
29	17.557	2473	2477	2481	rVV2	1074759	1622952	1.76%	0.164%
30	17.615	2482	2487	2496	rVB3	1229076	2101859	2.29%	0.212%
31	17.827	2519	2523	2527	rVV	668064	918889	1.00%	0.093%
32	17.909	2531	2537	2541	rVV	4732410	7018587	7.63%	0.710%
33	17.957	2541	2545	2553	rVV	8708780	12591069	13.69%	1.273%
34	18.039	2553	2559	2563	rVB	1901690	2846701	3.10%	0.288%

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM102319\
Data File : BM023352.D
Acq On : 23 Oct 2019 21:23
Operator : JU
Sample : K5378-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

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_M\METHODS\SOM-EPA-BM102319MA.M
Title : SVOA CALIBRATION

35	18.098	2563	2569	2573	rBV2	5047905	9119040	9.92%	0.922%
36	18.139	2573	2576	2583	rVB	3367813	4364704	4.75%	0.441%
37	18.257	2592	2596	2600	rVB2	672890	964542	1.05%	0.098%
38	18.415	2618	2623	2626	rBV	5294453	7148760	7.77%	0.723%
39	18.451	2626	2629	2636	rVB	6844223	9174243	9.98%	0.927%
40	18.662	2657	2665	2669	rBV4	1262555	2273364	2.47%	0.230%
41	18.715	2669	2674	2677	rVV	1137483	1518870	1.65%	0.154%
42	18.751	2677	2680	2685	rVB	1205592	1603377	1.74%	0.162%
43	18.839	2686	2695	2700	rBV2	3495715	6300212	6.85%	0.637%
44	18.898	2700	2705	2708	rVV2	1367803	2574409	2.80%	0.260%
45	18.927	2708	2710	2714	rVV	1043273	1376302	1.50%	0.139%
46	18.974	2714	2718	2726	rVB	5538824	8385906	9.12%	0.848%
47	19.109	2733	2741	2746	rVV2	53141504	91969354	100.00%	9.297%
48	19.168	2748	2751	2753	rVV	880223	1184185	1.29%	0.120%
49	19.198	2753	2756	2761	rVV2	1434076	2325979	2.53%	0.235%
50	19.245	2761	2764	2768	rVV	1904904	2462731	2.68%	0.249%
51	19.304	2768	2774	2777	rVV	1419340	2612626	2.84%	0.264%
52	19.339	2777	2780	2785	rVB	2389142	3247106	3.53%	0.328%
53	19.439	2791	2797	2798	rBV	20646151	26801197	29.14%	2.709%
54	19.474	2798	2803	2809	rVB2	47052805	78403081	85.25%	7.926%
55	19.533	2809	2813	2820	rVB2	3068367	4798633	5.22%	0.485%
56	19.639	2826	2831	2837	rVB	4086848	5647719	6.14%	0.571%
57	19.698	2837	2841	2848	rVB2	2027210	3434434	3.73%	0.347%
58	19.786	2850	2856	2857	rBV	3746483	5679256	6.18%	0.574%
59	19.833	2862	2864	2868	rVB	1552136	1771915	1.93%	0.179%
60	19.921	2874	2879	2882	rBV4	2977317	5033215	5.47%	0.509%
61	20.009	2891	2894	2899	rBV3	575176	942863	1.03%	0.095%
62	20.115	2906	2912	2917	rBV2	5863547	9951917	10.82%	1.006%
63	20.156	2917	2919	2923	rVV2	1121392	1344934	1.46%	0.136%
64	20.198	2923	2926	2932	rVB	996700	1382939	1.50%	0.140%
65	20.256	2932	2936	2940	rBV	2430815	3087337	3.36%	0.312%
66	20.303	2940	2944	2948	rVV3	2509285	3752946	4.08%	0.379%
67	20.515	2976	2980	2984	rBV4	1379434	2359757	2.57%	0.239%
68	20.709	3008	3013	3019	rVB	9766456	12372183	13.45%	1.251%
69	20.762	3019	3022	3026	rBV5	641910	997167	1.08%	0.101%
70	20.868	3034	3040	3044	rBV2	5466741	10150005	11.04%	1.026%
71	20.909	3044	3047	3051	rVV	5332570	7139354	7.76%	0.722%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM102319\
Data File : BM023352.D
Acq On : 23 Oct 2019 21:23
Operator : JU
Sample : K5378-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

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_M\METHODS\SOM-EPA-BM102319MA.M
Title : SVOA CALIBRATION

72	20.962	3051	3056	3060	rVV3	7079652	14377108	15.63%	1.453%
73	21.003	3060	3063	3072	rVB	7616169	10591261	11.52%	1.071%
74	21.109	3079	3081	3090	rVB3	1250862	2280741	2.48%	0.231%
75	21.215	3091	3099	3104	rVV3	34383509	59951931	65.19%	6.061%
76	21.268	3104	3108	3118	rVB	28921285	41860396	45.52%	4.232%
77	21.380	3124	3127	3130	rBV	1603996	2209383	2.40%	0.223%
78	21.480	3142	3144	3149	rVB2	2111598	2652216	2.88%	0.268%
79	21.533	3149	3153	3158	rBV2	4567635	7346943	7.99%	0.743%
80	21.586	3159	3162	3166	rVV3	1662031	2173266	2.36%	0.220%
81	21.721	3182	3185	3188	rBV2	1343260	1858342	2.02%	0.188%
82	21.774	3190	3194	3198	rVB	5225054	7467238	8.12%	0.755%
83	21.827	3199	3203	3211	rBV3	2740032	4780989	5.20%	0.483%
84	21.968	3222	3227	3229	rBV	1974533	2956909	3.22%	0.299%
85	22.239	3269	3273	3278	rBV2	1287056	2227302	2.42%	0.225%
86	22.515	3315	3320	3334	rVB3	2756283	7095802	7.72%	0.717%
87	22.786	3358	3366	3371	rBV2	23364776	61141857	66.48%	6.181%
88	22.944	3388	3393	3403	rVB	4300321	6838273	7.44%	0.691%
89	23.074	3410	3415	3425	rBV3	1883742	5501437	5.98%	0.556%
90	23.250	3438	3445	3449	rBV	11633500	22700222	24.68%	2.295%
91	23.297	3449	3453	3456	rVV	4923804	8852931	9.63%	0.895%
92	23.344	3456	3461	3469	rVB	19552849	35781801	38.91%	3.617%
93	23.433	3470	3476	3480	rBV	3721616	7335743	7.98%	0.742%
94	23.480	3480	3484	3492	rVB2	6061883	12056864	13.11%	1.219%
95	24.009	3570	3574	3580	rVB	2254354	3949159	4.29%	0.399%
96	24.086	3583	3587	3593	rVB2	1473552	2840581	3.09%	0.287%
97	25.650	3842	3853	3862	rVB	11062537	35645834	38.76%	3.603%
98	25.750	3866	3870	3879	rVB2	1096219	2577201	2.80%	0.261%
99	26.327	3958	3968	3981	rVB	7953264	24389664	26.52%	2.466%
100	26.468	3986	3992	4007	rVB9	1572434	5487369	5.97%	0.555%

Sum of corrected areas: 989207345

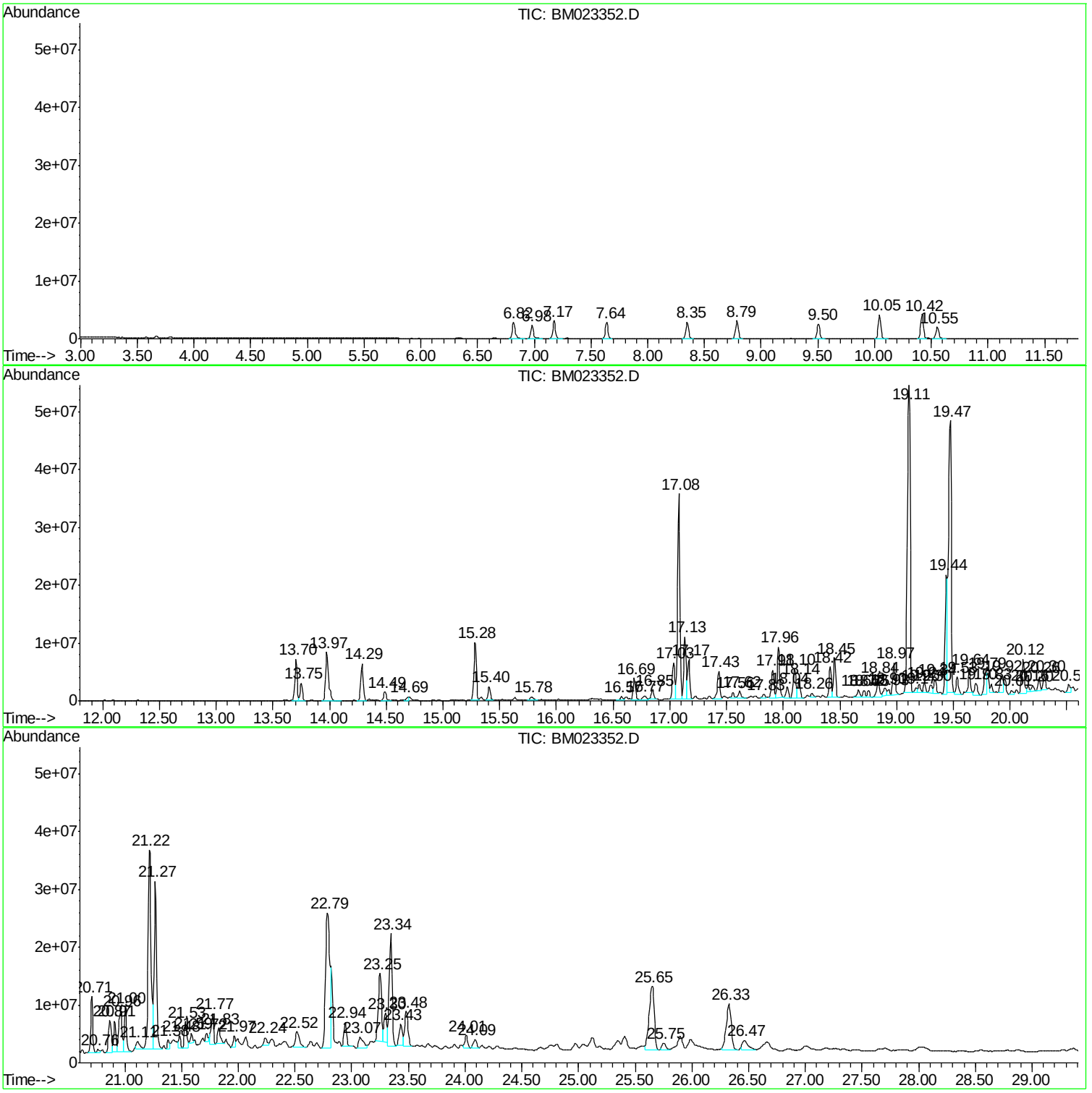
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM102319\
Data File : BM023352.D
Acq On : 23 Oct 2019 21:23
Operator : JU
Sample : K5378-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM102319MA.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM102319\
Data File : BM023352.D
Acq On : 23 Oct 2019 21:23
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Sample : K5378-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM102319MA.M
Quant Title : SVOA CALIBRATION

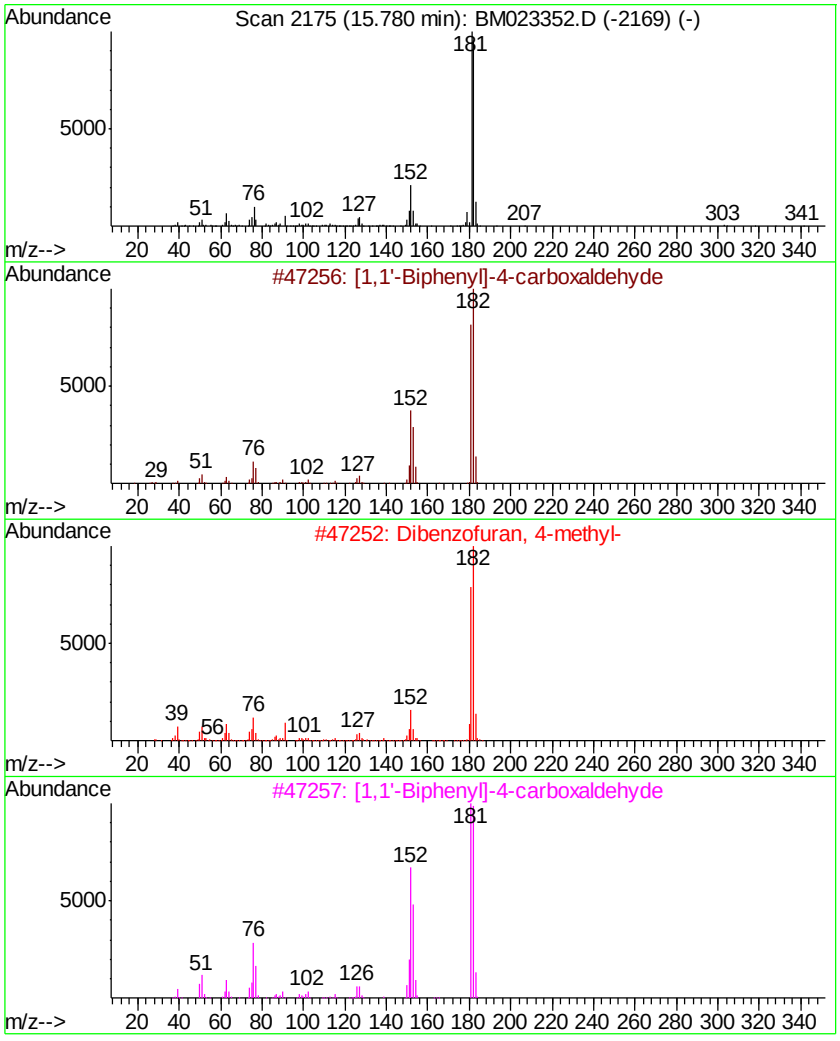
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

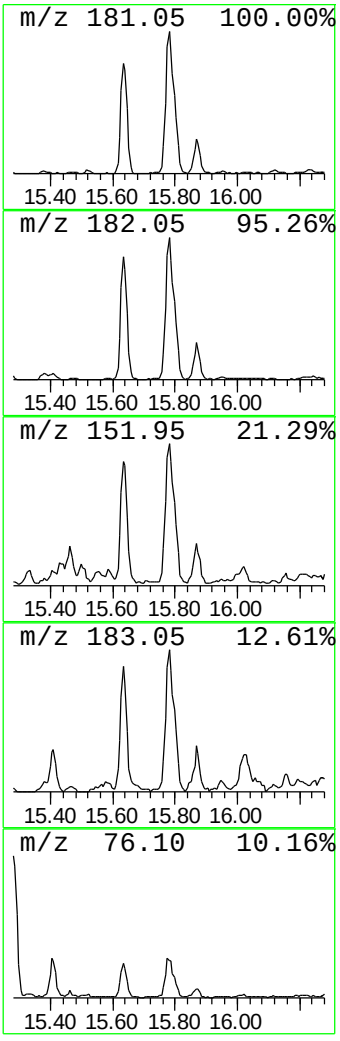
****

Peak Number 1 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.78	2.69 ng/ul	1312380	Phenanthrene-d10	17.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	91
2	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	91
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	78
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
5	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	78





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM102319\
Data File : BM023352.D
Acq On : 23 Oct 2019 21:23
Operator : JU
Sample : K5378-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

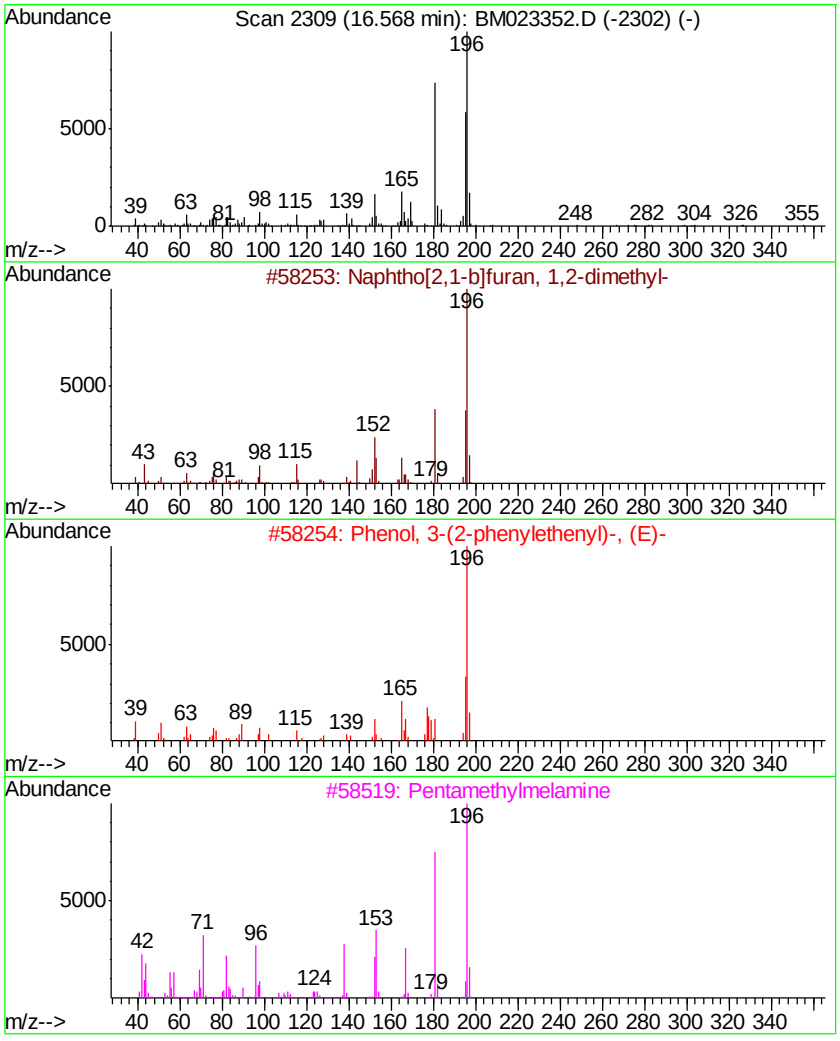
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM102319MA.M
Quant Title : SVOA CALIBRATION

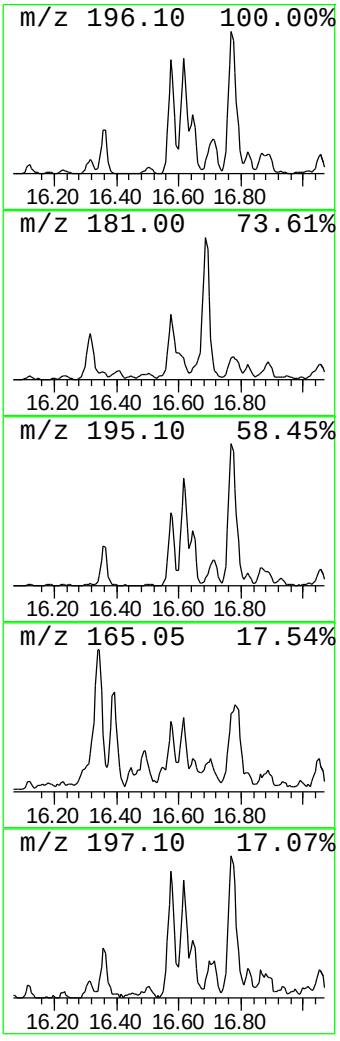
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Naphtho[2,1-b]furan, 1,2-di... Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.57	2.04 ng/ul	995043	Phenanthrene-d10	17.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]furan, 1,2-dimethyl-	196	C14H12O	129812-23-3	72
2	Phenol, 3-(2-phenylethenyl)-, (E)-	196	C14H12O	017861-18-6	58
3	Pentamethylmelamine	196	C8H16N6	035832-09-8	58
4	Phenol, 4-(2-phenylethenyl)-	196	C14H12O	003839-46-1	52
5	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	46





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM102319\
Data File : BM023352.D
Acq On : 23 Oct 2019 21:23
Operator : JU
Sample : K5378-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM102319MA.M
Quant Title : SVOA CALIBRATION

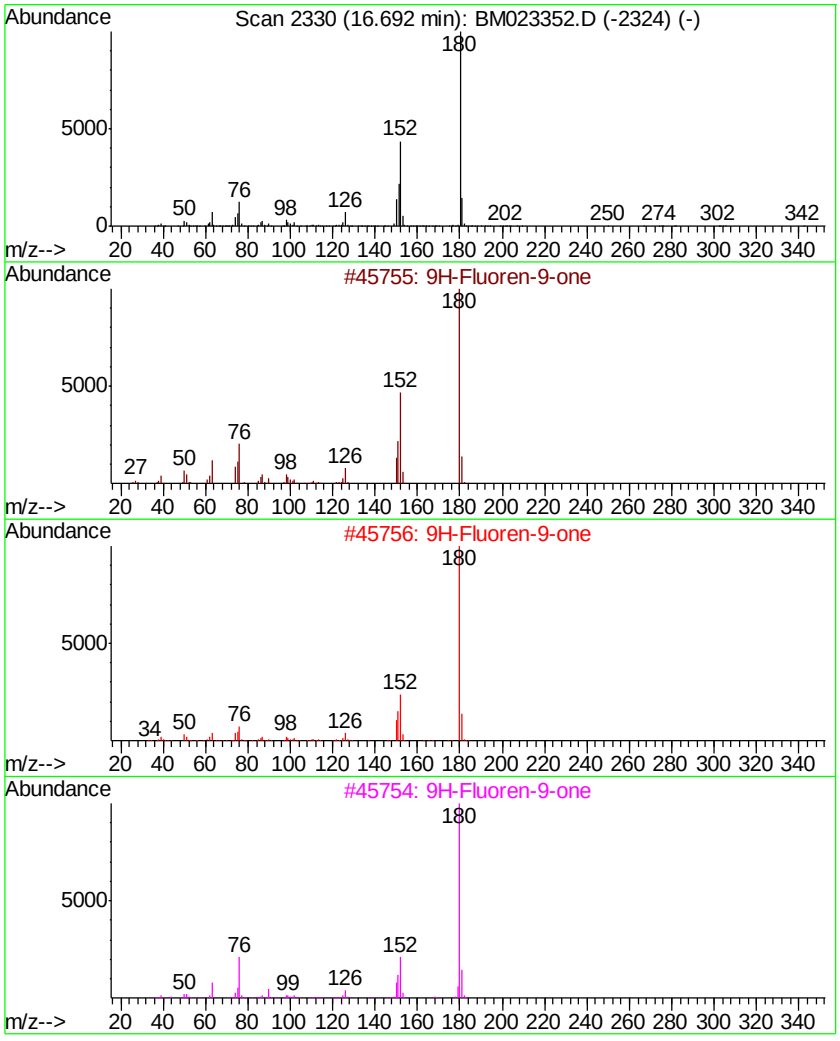
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

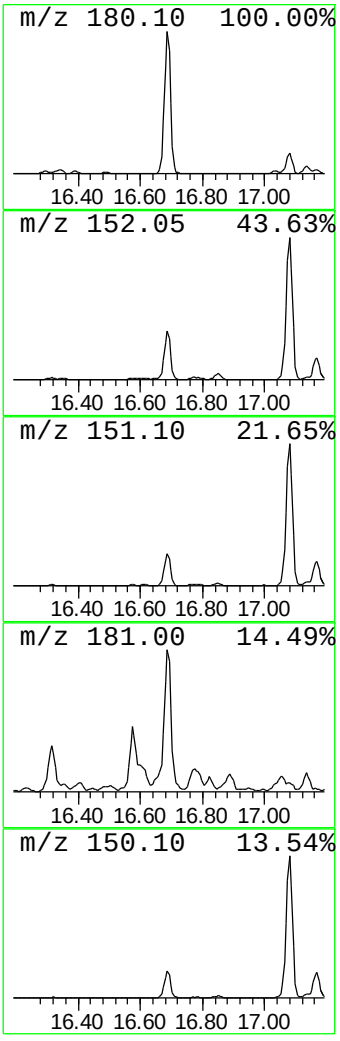
****

Peak Number 3 9H-Fluoren-9-one Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.69	11.22 ng/ul	5469820	Phenanthrene-d10	17.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	94
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	94
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	87





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM102319\
Data File : BM023352.D
Acq On : 23 Oct 2019 21:23
Operator : JU
Sample : K5378-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

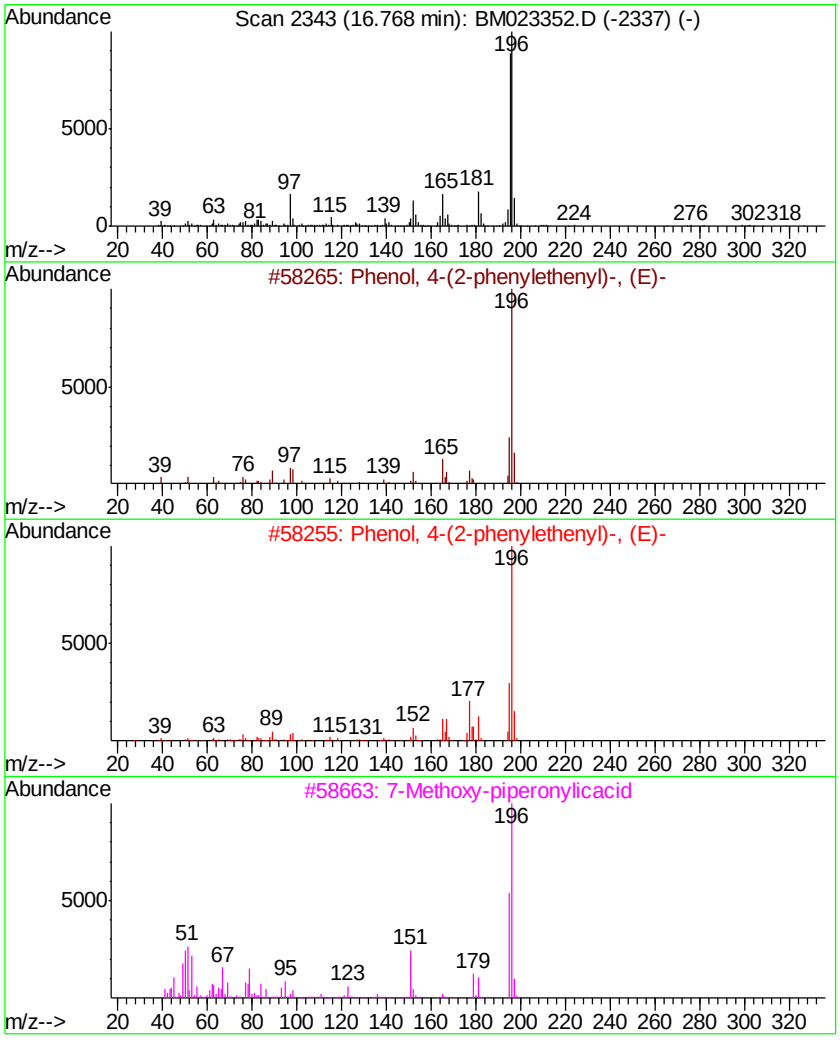
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM102319MA.M
Quant Title : SVOA CALIBRATION

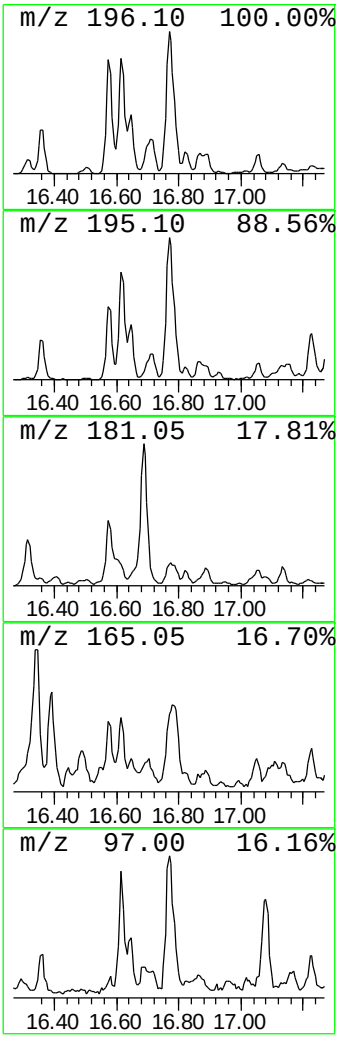
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Phenol, 4-(2-phenylethenyl)... Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.77	3.35 ng/ul	1631420	Phenanthrene-d10	17.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	58
2	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	52
3	7-Methoxy-piperonylicacid	196	C9H8O5	000526-34-1	49
4	Phenol, 3-(2-phenylethenyl)-, (E)-	196	C14H12O	017861-18-6	47
5	Benzenamine, 4-[(E)-2-(4-pyridin...	196	C13H12N2	1000351-61-4	47





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM102319\
Data File : BM023352.D
Acq On : 23 Oct 2019 21:23
Operator : JU
Sample : K5378-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM102319MA.M
Quant Title : SVOA CALIBRATION

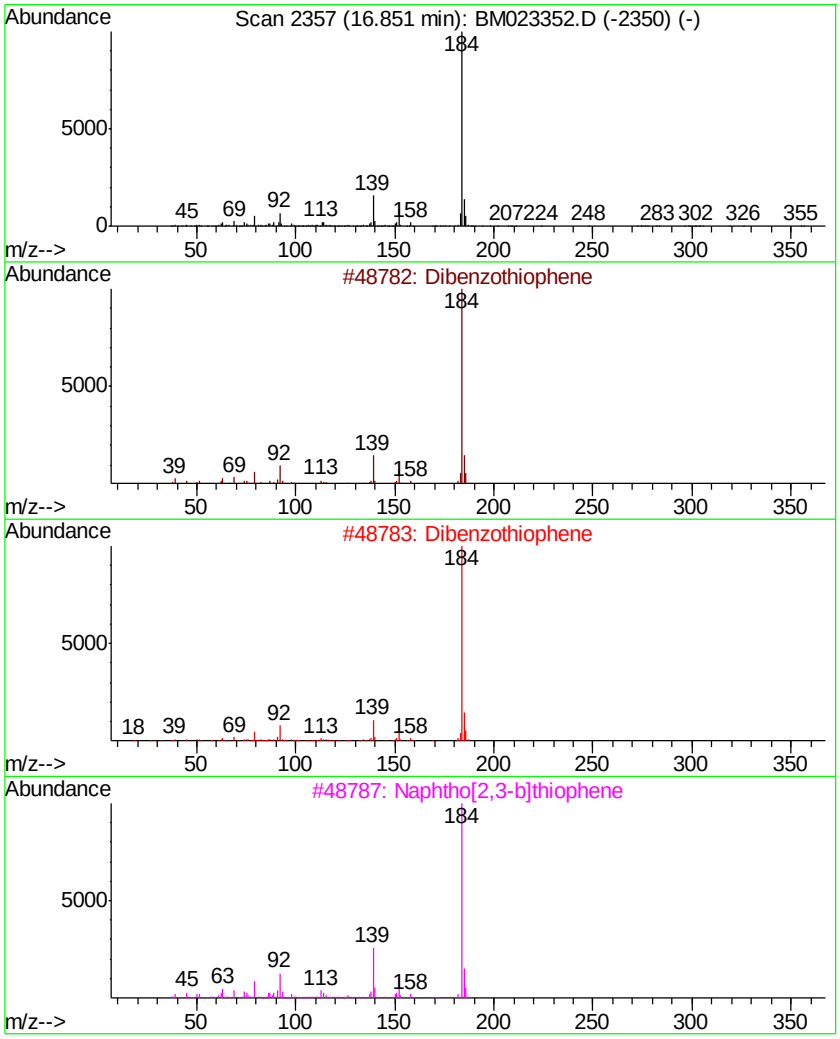
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

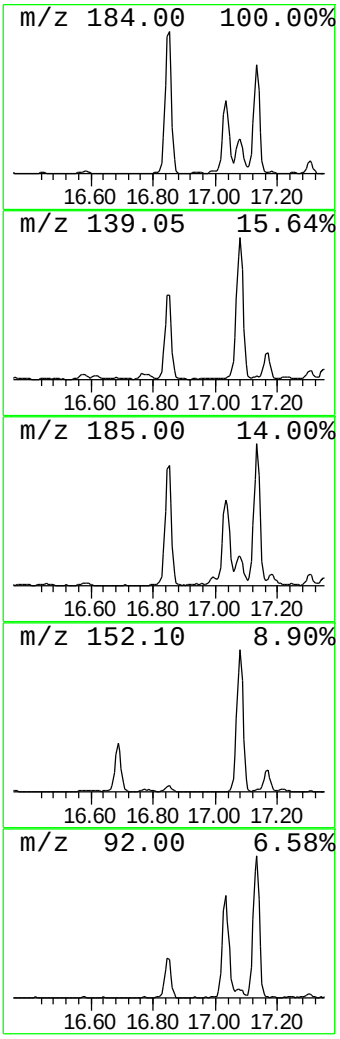
****

Peak Number 5 Dibenzothiophene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.85	4.92 ng/ul	2399820	Phenanthrene-d10	17.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Dibenzothiophene	184	C12H8S	000132-65-0	95
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	95
5	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	94





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Acq On : 23 Oct 2019 21:23
Operator : JU
Sample : K5378-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM102319MA.M
Quant Title : SVOA CALIBRATION

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

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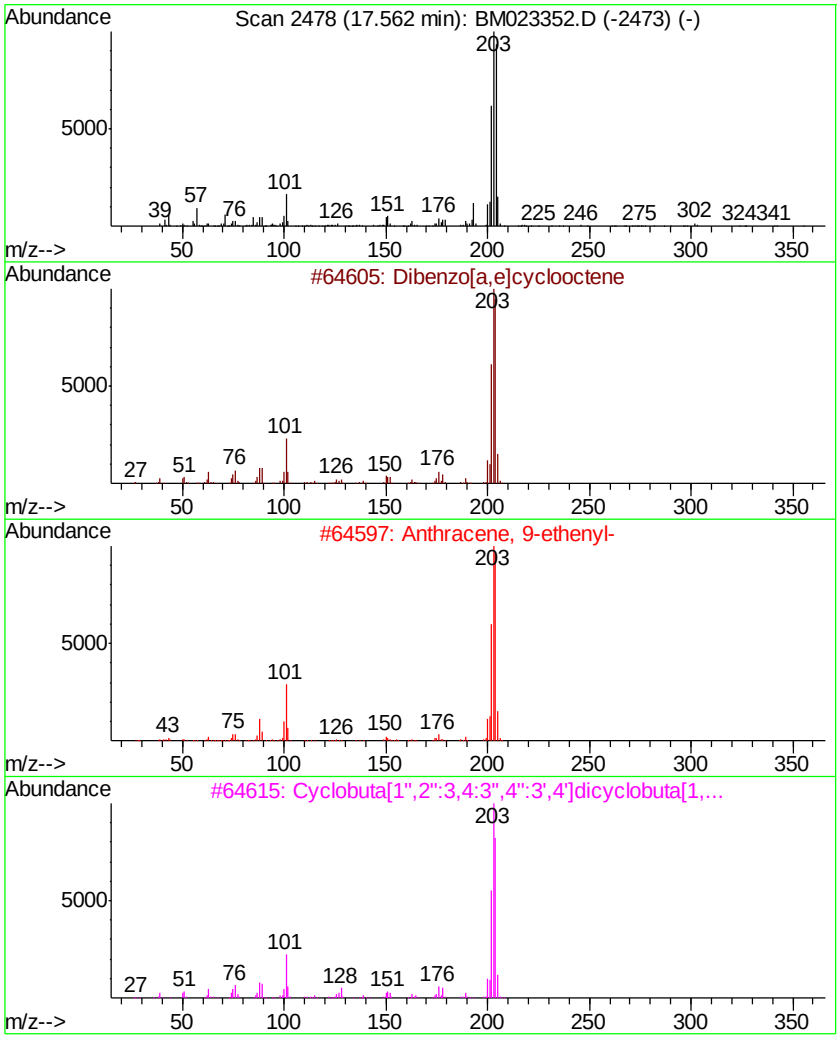
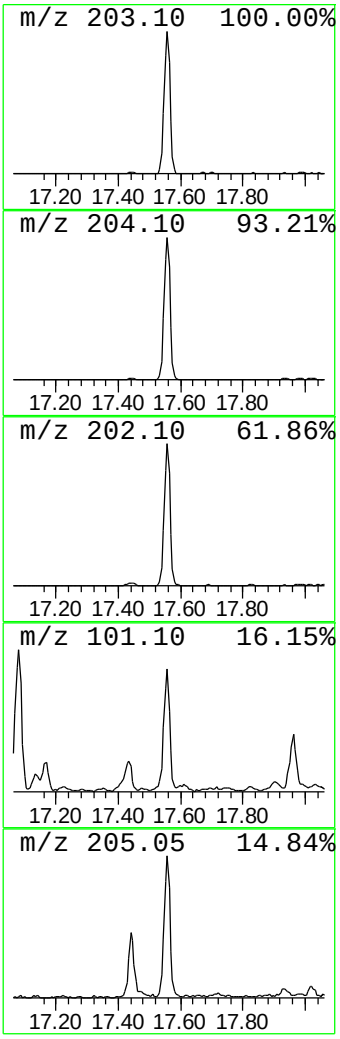
Peak Number 6 Dibenzo[a,e]cyclooctene Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.56	3.33 ng/ul	1622950	Phenanthrene-d10	17.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[a,e]cyclooctene	204	C16H12	000262-89-5	96
2	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	93
3	Cyclobuta[1'',2'':3,4:3'',4'':3'...	204	C16H12	006574-36-3	89
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	78
5	1H-Indene, 1-(phenylmethylene)-	204	C16H12	005394-86-5	76





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Sample : K5378-04
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Instrument : BNA_M
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Quant Title : SVOA CALIBRATION

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

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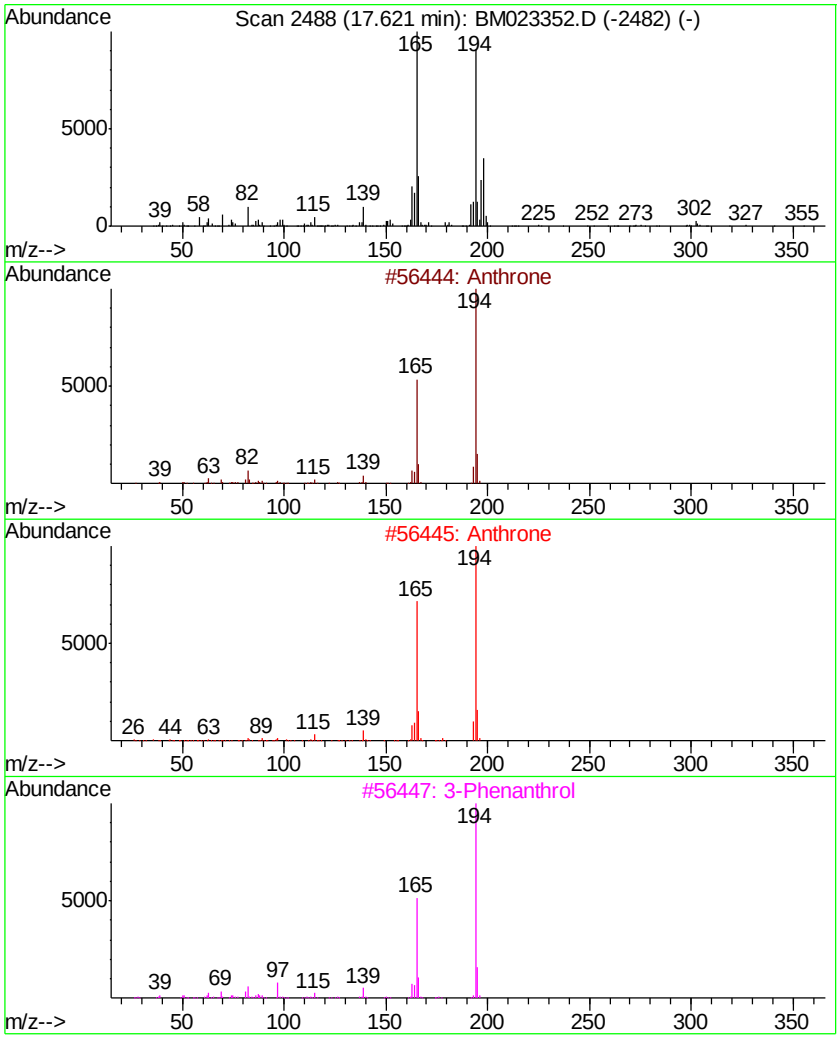
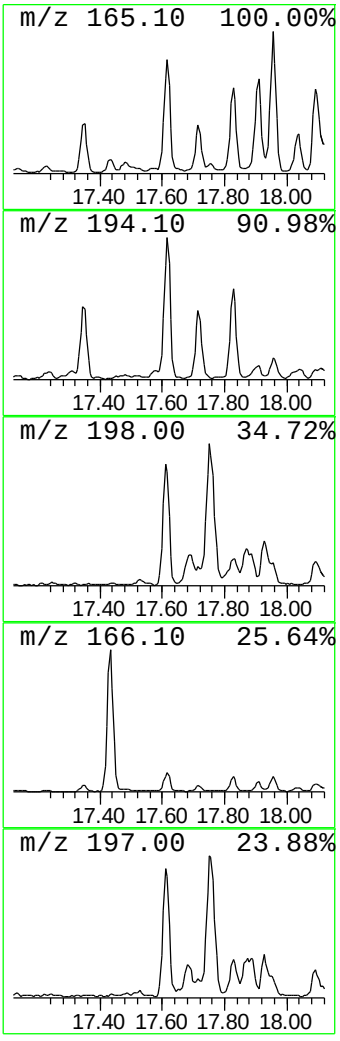
Peak Number 7 Anthrone Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.62	4.31 ng/ul	2101860	Phenanthrene-d10	17.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthrone	194	C14H10O	000090-44-8	89
2	Anthrone	194	C14H10O	000090-44-8	76
3	3-Phenanthrol	194	C14H10O	000605-87-8	76
4	Anthrone	194	C14H10O	000090-44-8	68
5	9H-Fluoren-9-one, hydrazone	194	C13H10N2	013629-22-6	64





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Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

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Quant Title : SVOA CALIBRATION

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

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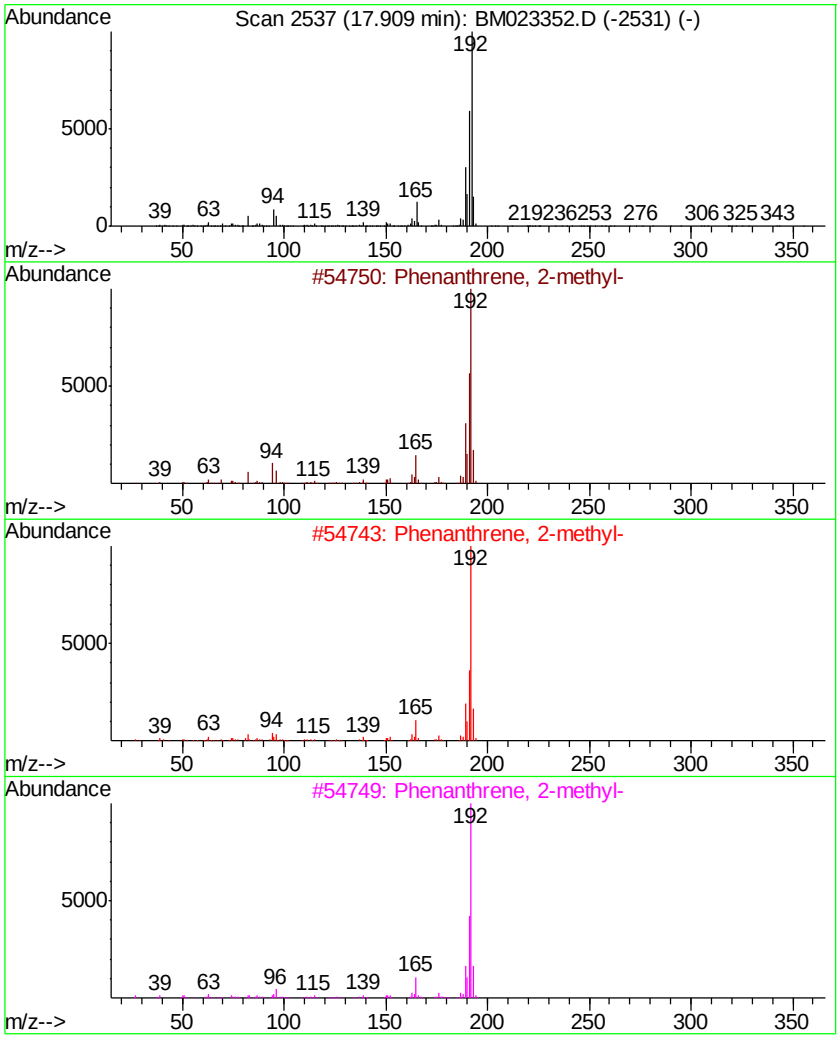
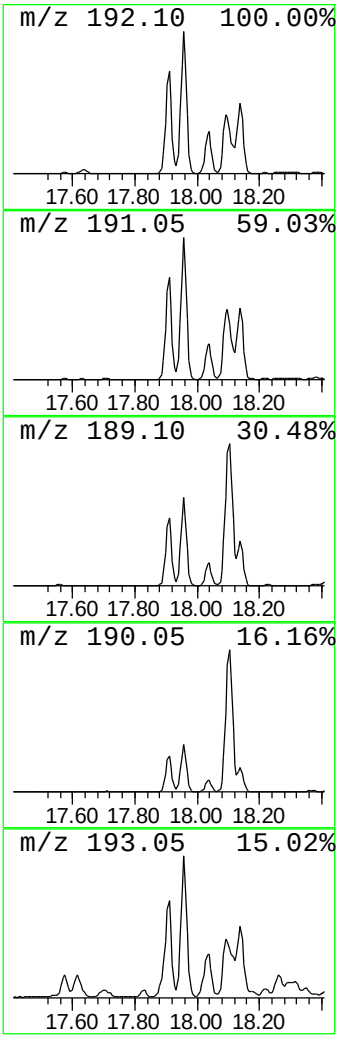
Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.91	14.39 ng/ul	7018590	Phenanthrene-d10	17.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95





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ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

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Quant Title : SVOA CALIBRATION

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

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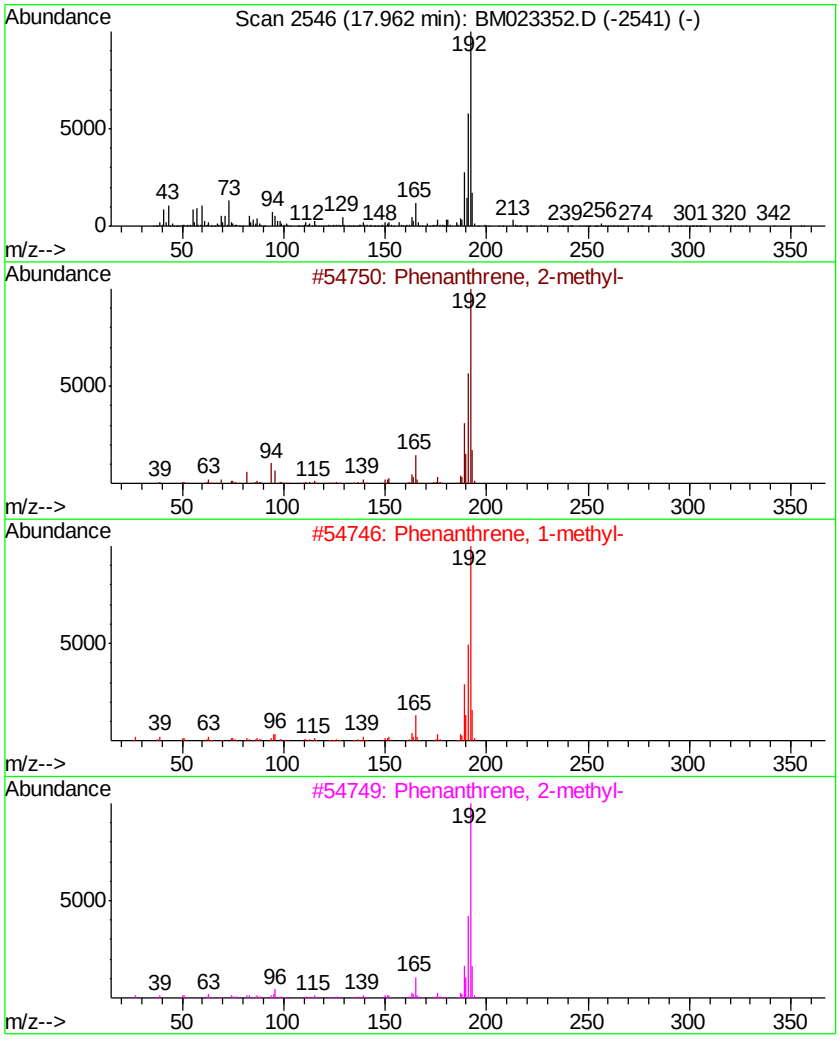
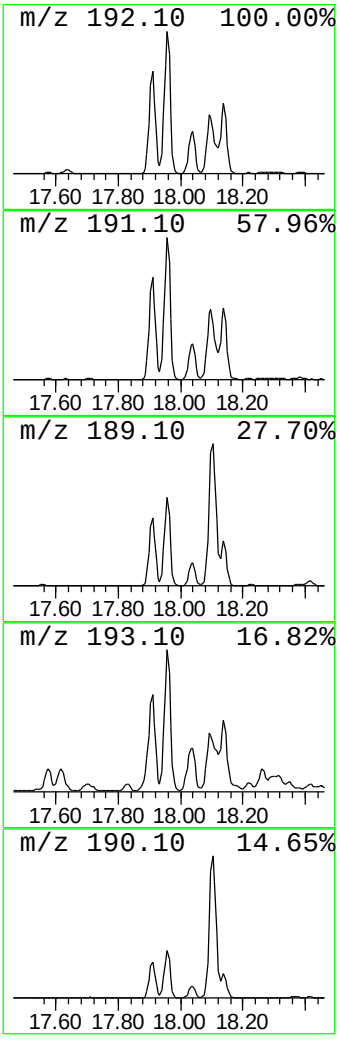
Peak Number 9 Phenanthrene, 1-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.96	25.82 ng/ul	12591100	Phenanthrene-d10	17.03

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	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96





Library Search Compound Report

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Acq On : 23 Oct 2019 21:23
Operator : JU
Sample : K5378-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

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Quant Title : SVOA CALIBRATION

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

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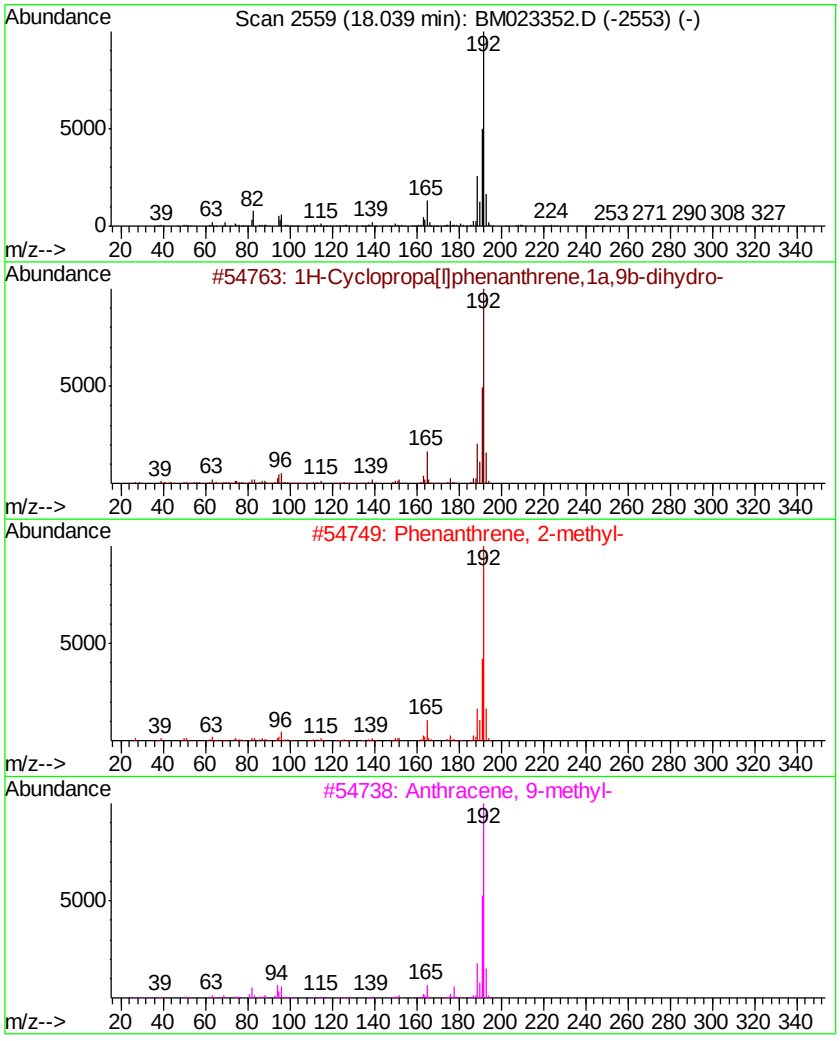
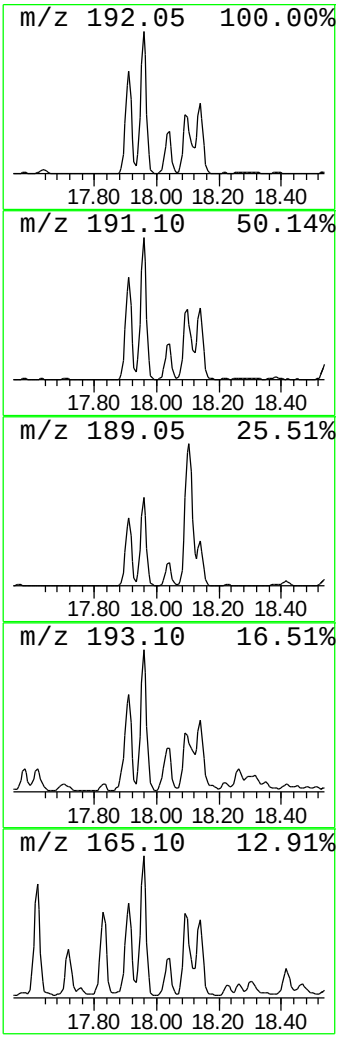
Peak Number 10 1H-Cyclopropa[l]phenanthren... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.04	5.84 ng/ul	2846700	Phenanthrene-d10	17.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	93





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Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

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Quant Title : SVOA CALIBRATION

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

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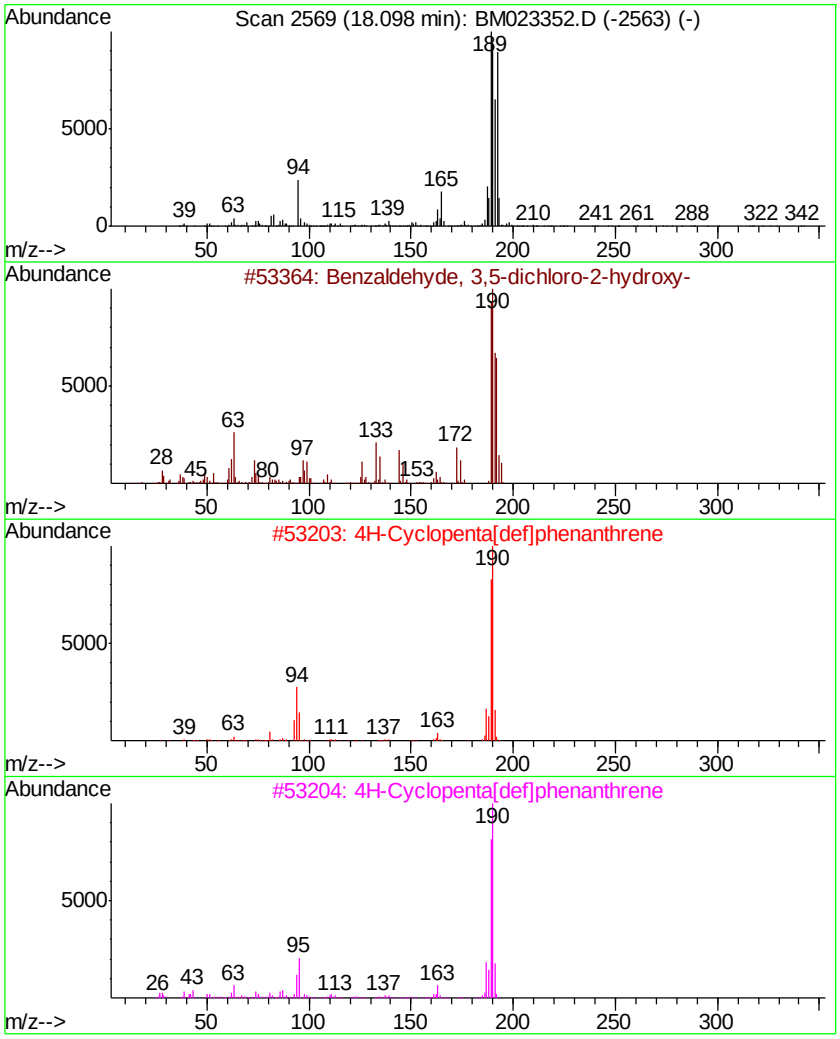
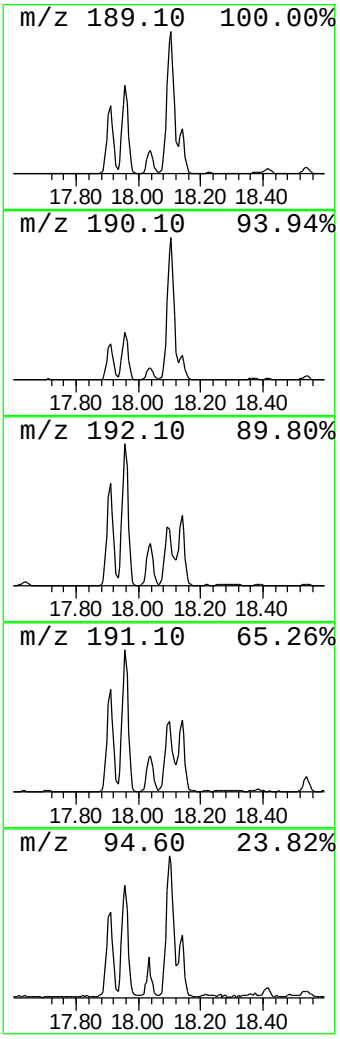
Peak Number 11 Benzaldehyde, 3,5-dichloro-... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.10	18.70 ng/ul	9119040	Phenanthrene-d10	17.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	72
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	42





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ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM102319MA.M
Quant Title : SVOA CALIBRATION

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

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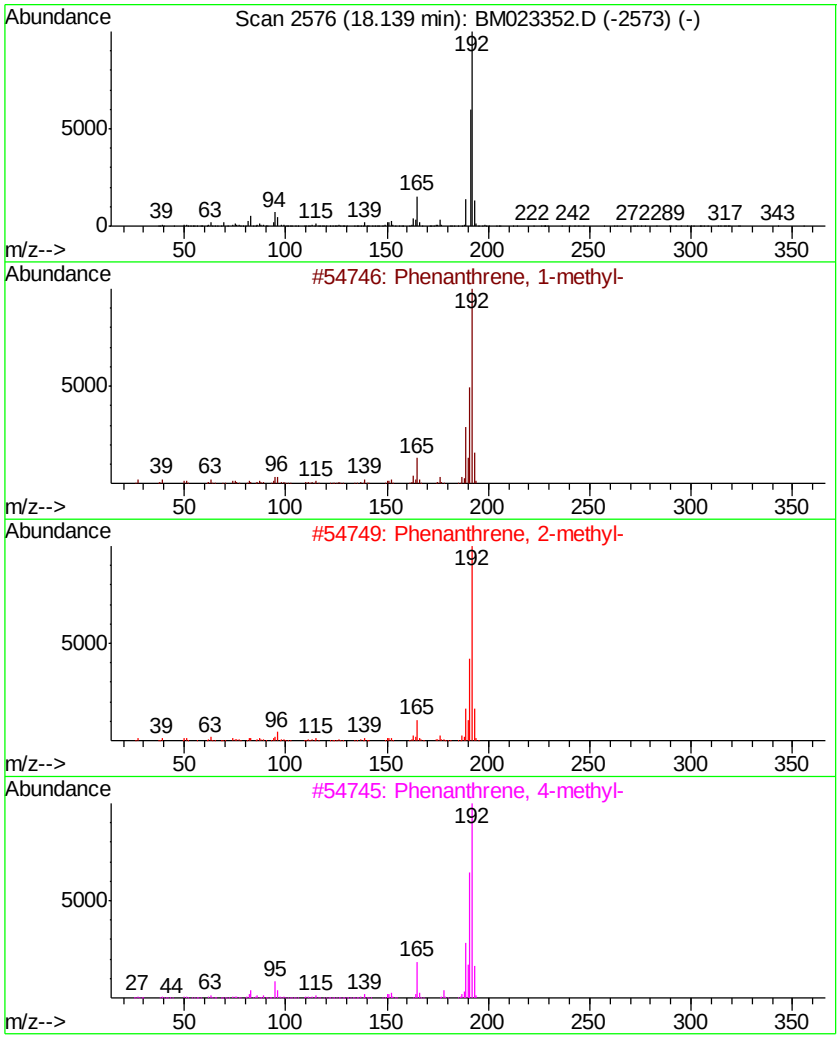
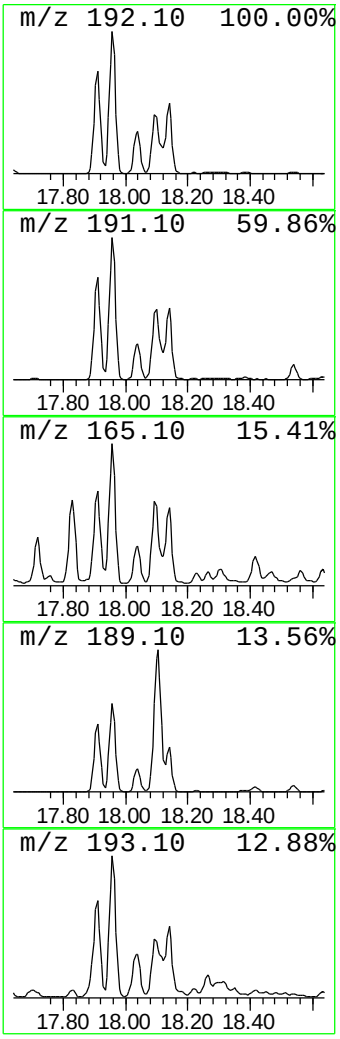
Peak Number 12 Phenanthrene, 4-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.14	8.95 ng/ul	4364700	Phenanthrene-d10	17.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	91
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90





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Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
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Quant Title : SVOA CALIBRATION

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

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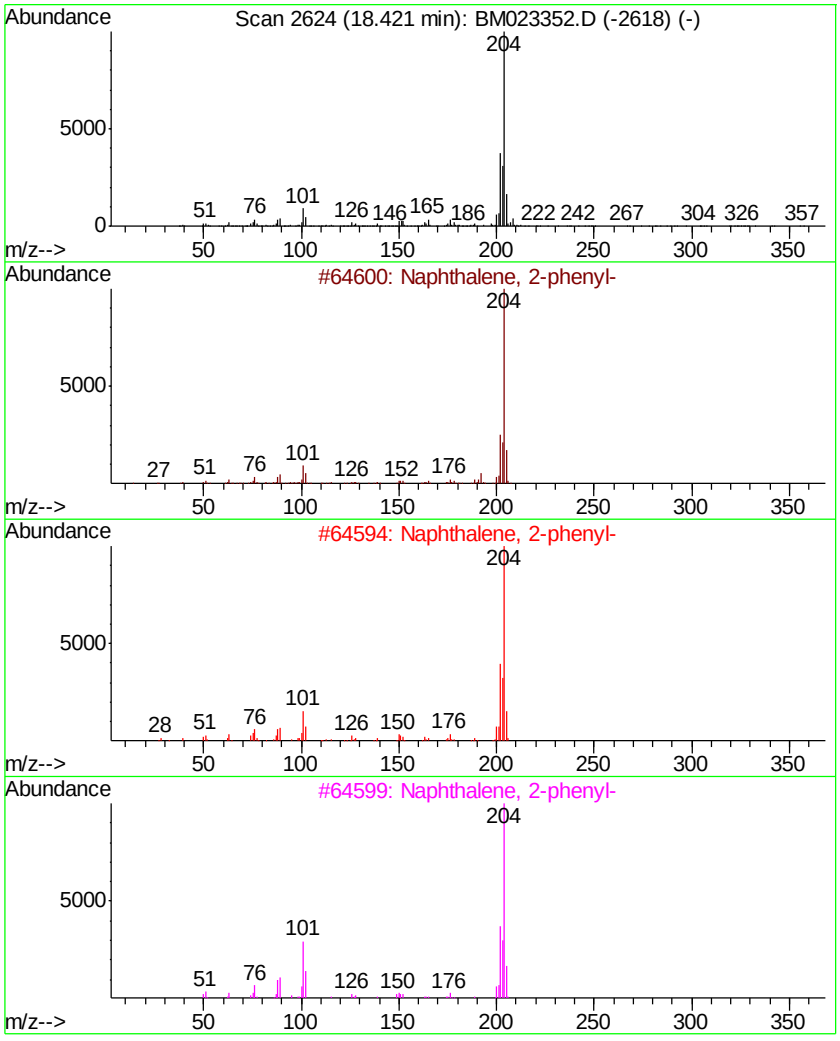
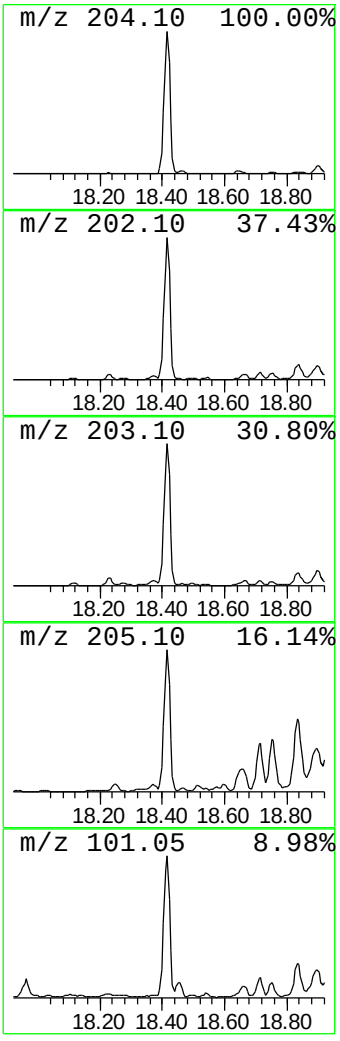
Peak Number 13 Naphthalene, 2-phenyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.42	14.66 ng/ul	7148760	Phenanthrene-d10	17.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	94
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	94
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
4	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	91
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	64





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Quant Title : SVOA CALIBRATION

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

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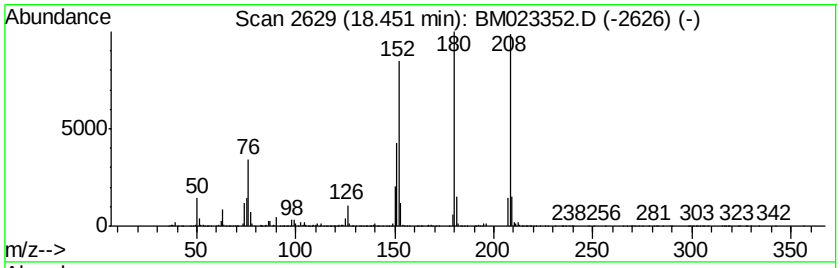
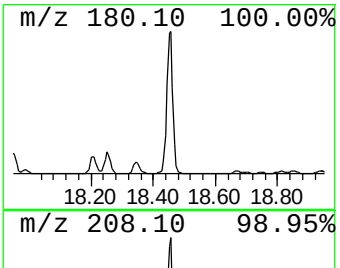
Peak Number 14 9,10-Anthracenedione Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.45	18.81 ng/ul	9174240	Phenanthrene-d10	17.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	96
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	95
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	70
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	64





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Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
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Quant Title : SVOA CALIBRATION

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

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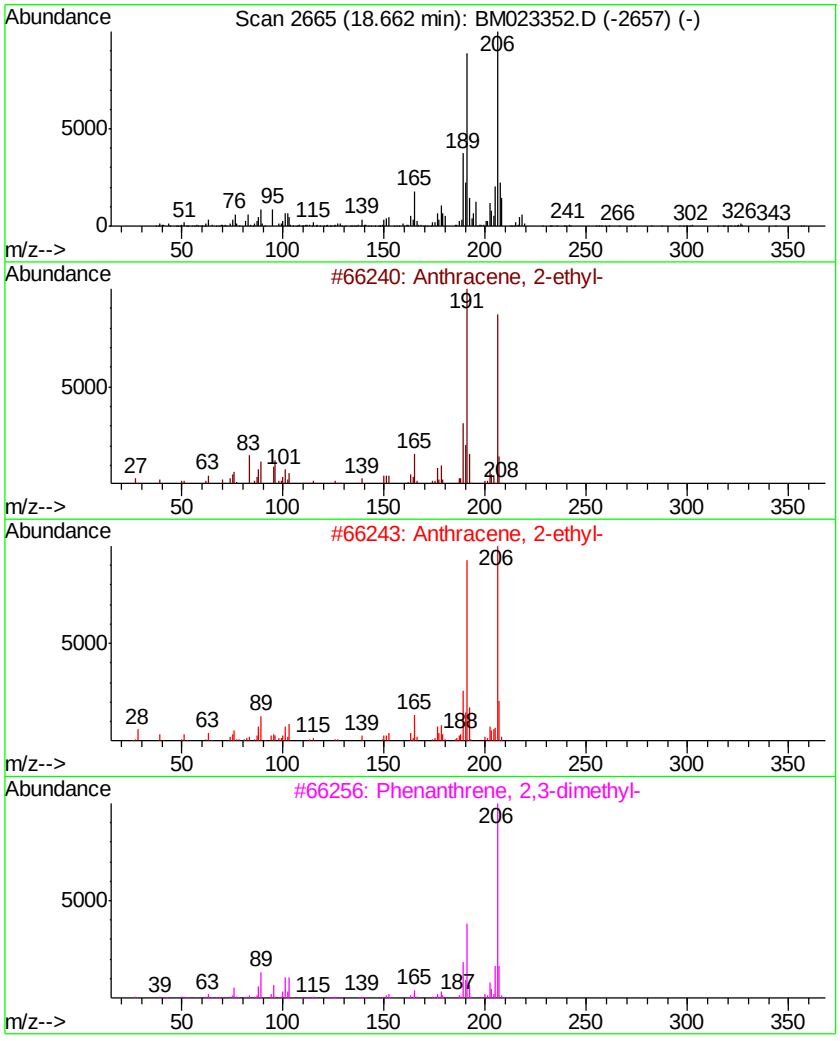
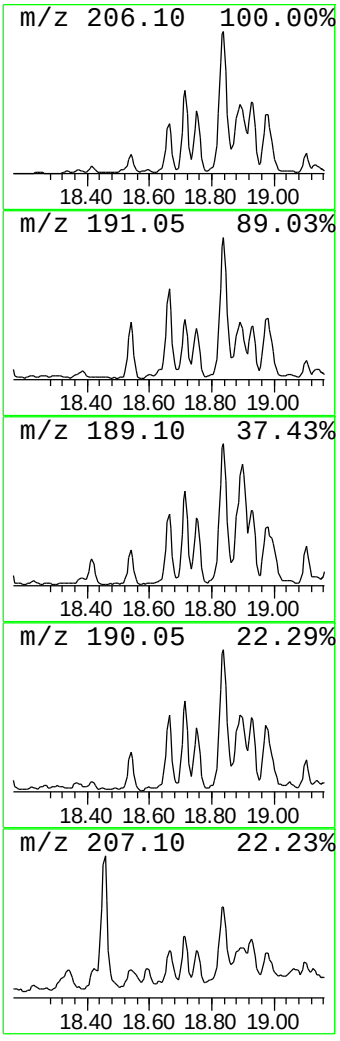
Peak Number 15 Anthracene, 2-ethyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.66	4.66 ng/ul	2273360	Phenanthrene-d10	17.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	95
2	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	93
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
4	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	91
5	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	91





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ALS Vial : 5 Sample Multiplier: 1

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Quant Title : SVOA CALIBRATION

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

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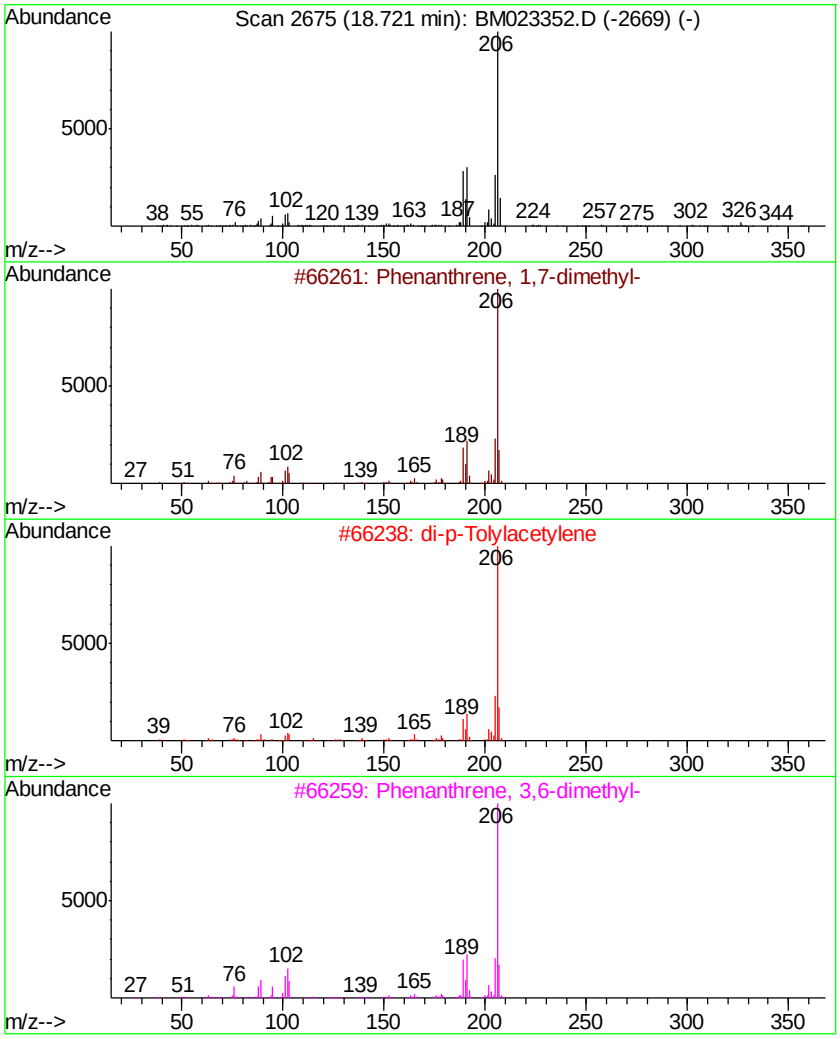
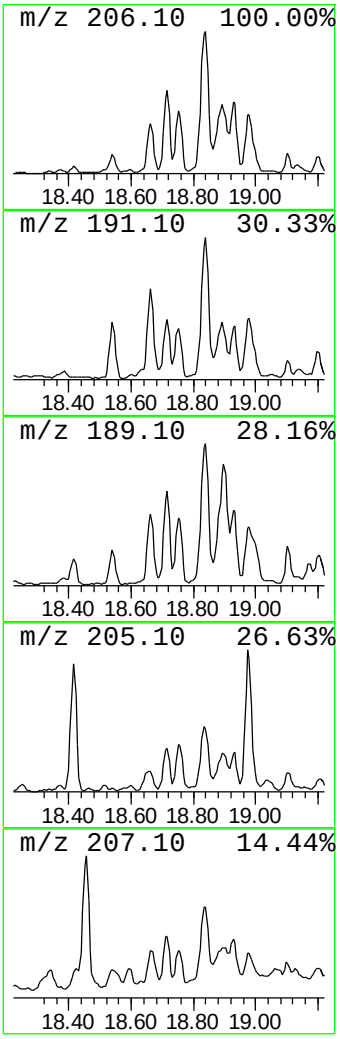
Peak Number 16 Phenanthrene, 1,7-dimethyl- Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.72	3.11 ng/ul	1518870	Phenanthrene-d10	17.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	91
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90





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Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM102319MA.M
Quant Title : SVOA CALIBRATION

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

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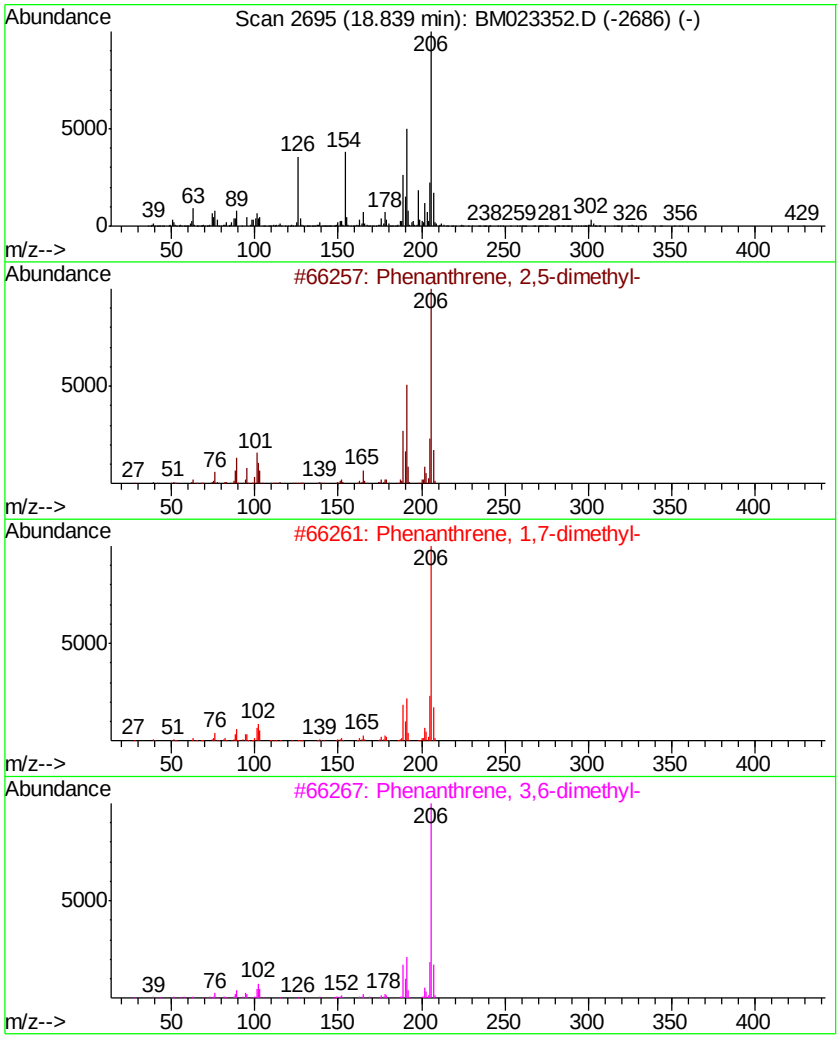
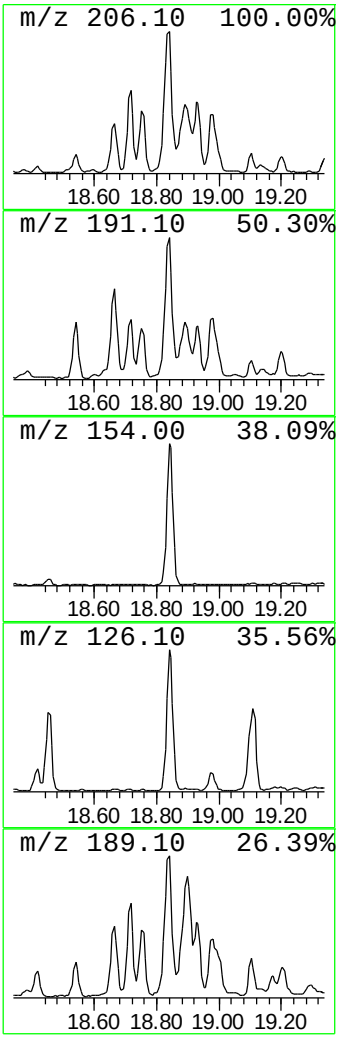
Peak Number 18 Phenanthrene, 2,5-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.84	12.92 ng/ul	6300210	Phenanthrene-d10	17.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	91
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	86
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	83
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	83
5	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	78





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Acq On : 23 Oct 2019 21:23
Operator : JU
Sample : K5378-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

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Quant Title : SVOA CALIBRATION

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

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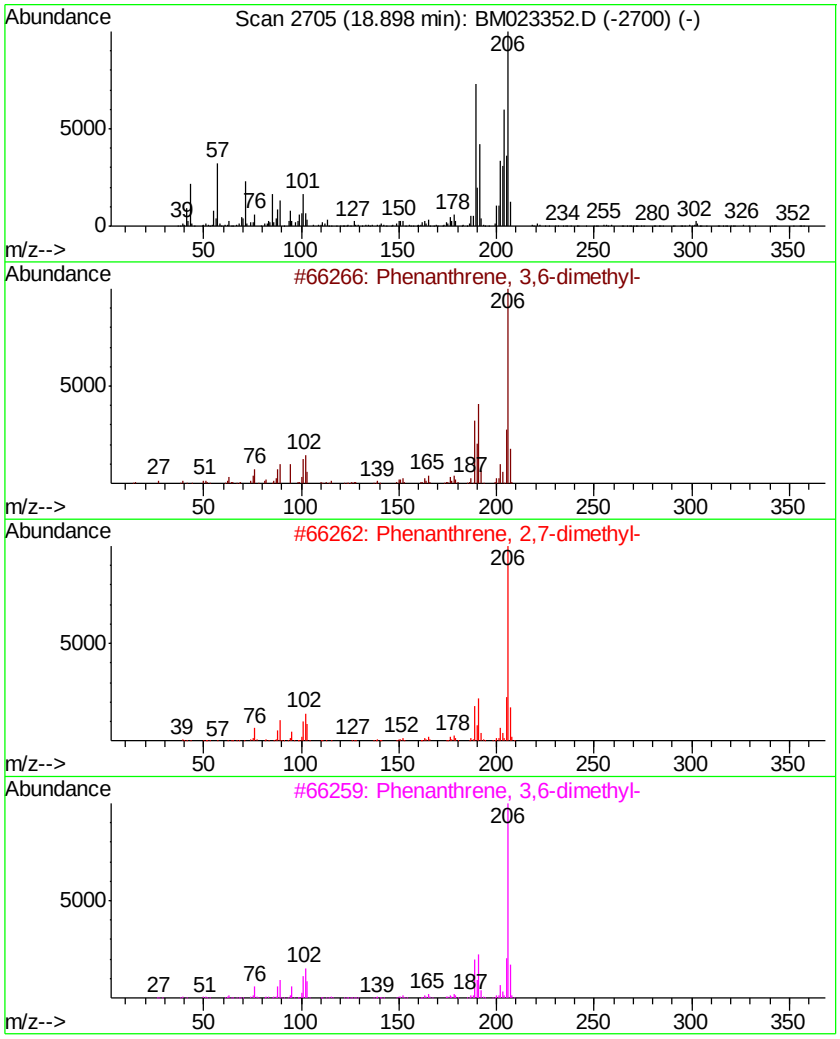
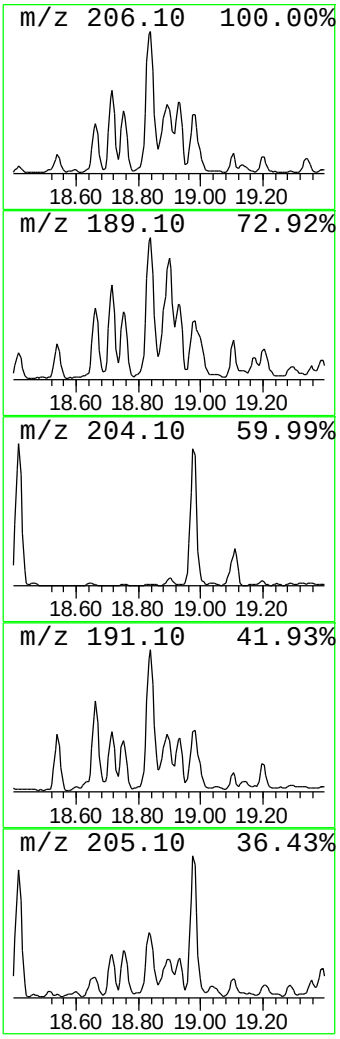
Peak Number 19 Phenanthrene, 3,6-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.90	5.28 ng/ul	2574410	Phenanthrene-d10	17.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	83
2	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	50
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	47
4	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	45
5	1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	38





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Misc :
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Instrument : BNA_M
ClientSampleId : C0012

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Quant Title : SVOA CALIBRATION

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

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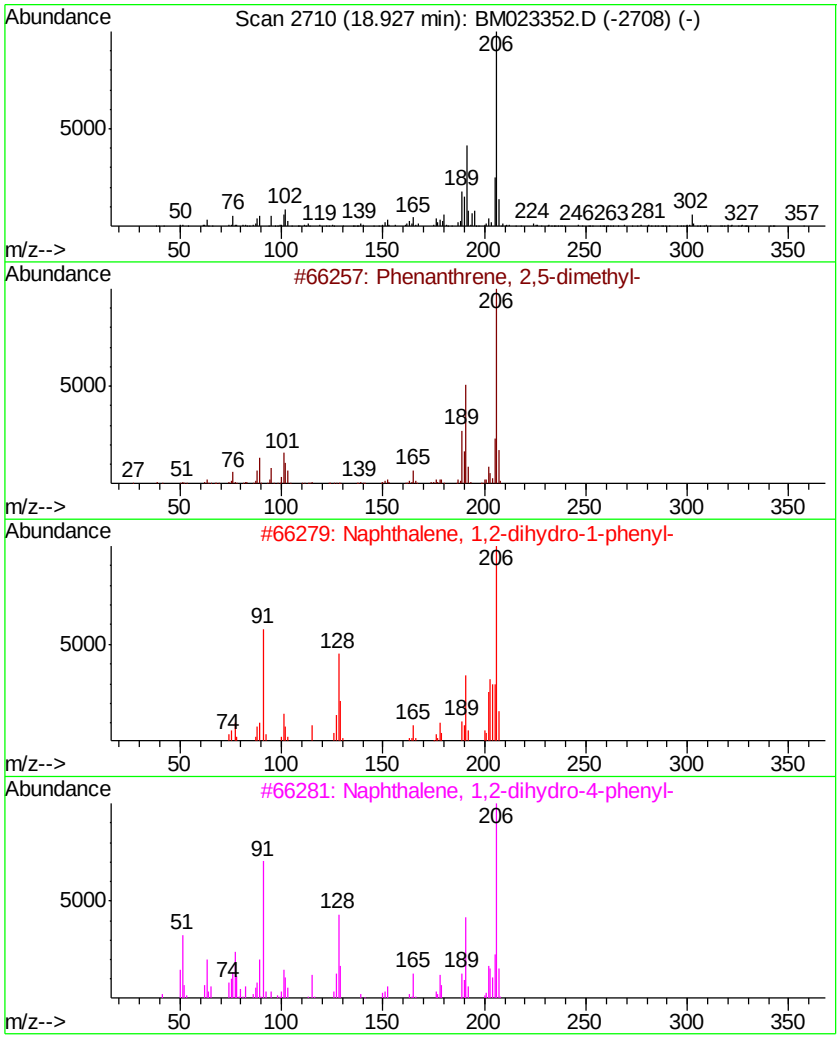
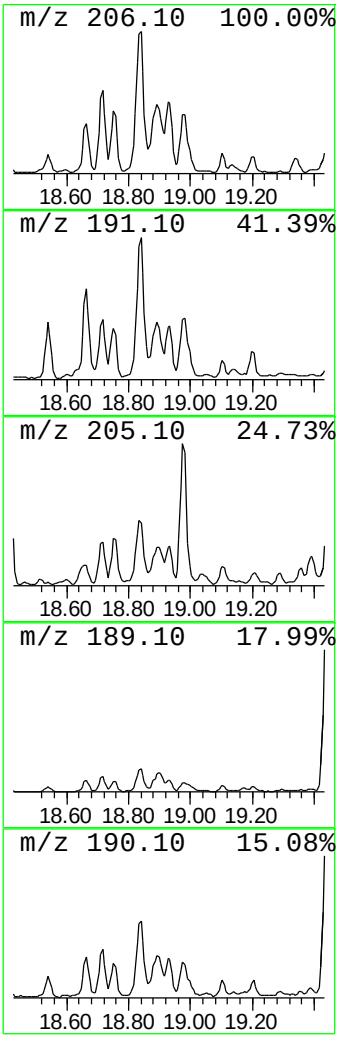
Peak Number 20 Naphthalene, 1,2-dihydro-1-... Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.93	2.82 ng/ul	1376300	Phenanthrene-d10	17.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	Naphthalene, 1,2-dihydro-1-phenyl-	206	C16H14	016606-46-5	87
3	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	86
4	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	86
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	86





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Instrument : BNA_M
ClientSampleId : C0012

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Quant Title : SVOA CALIBRATION

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

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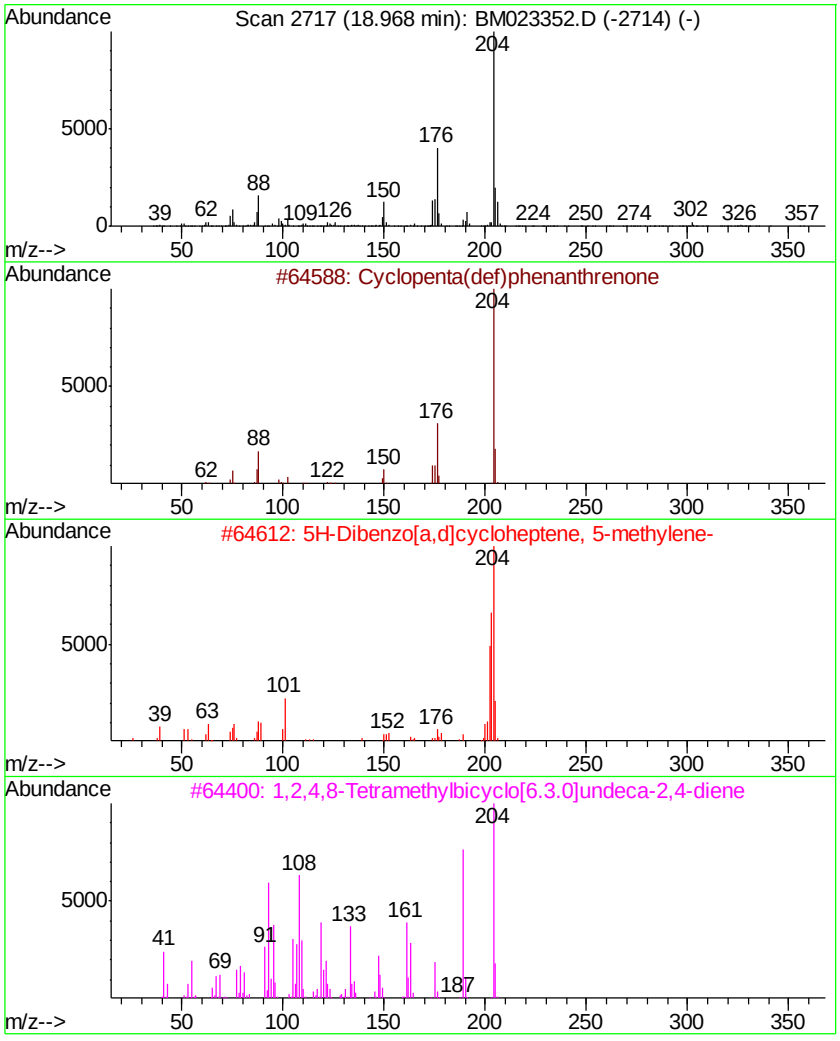
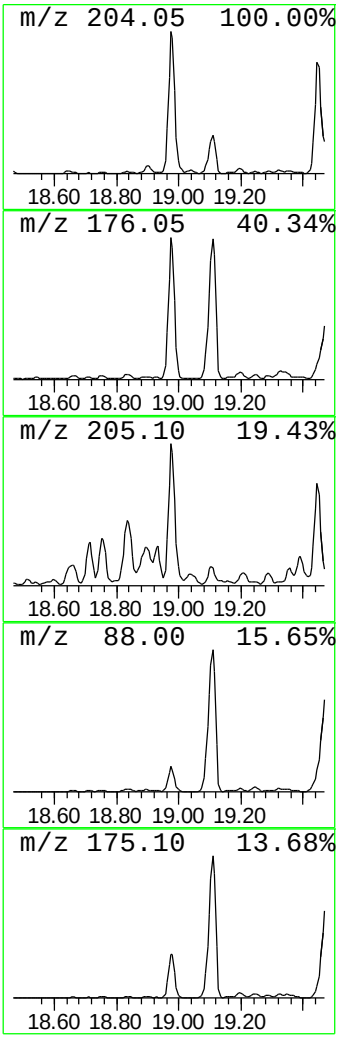
Peak Number 21 Cyclopenta(def)phenanthrenone Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.97	17.19 ng/ul	8385910	Phenanthrene-d10	17.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	47
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	45
4	Quinoline, 8-methoxy-5-nitro-	204	C10H8N2O3	1000298-88-7	43
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	43





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Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

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Quant Title : SVOA CALIBRATION

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

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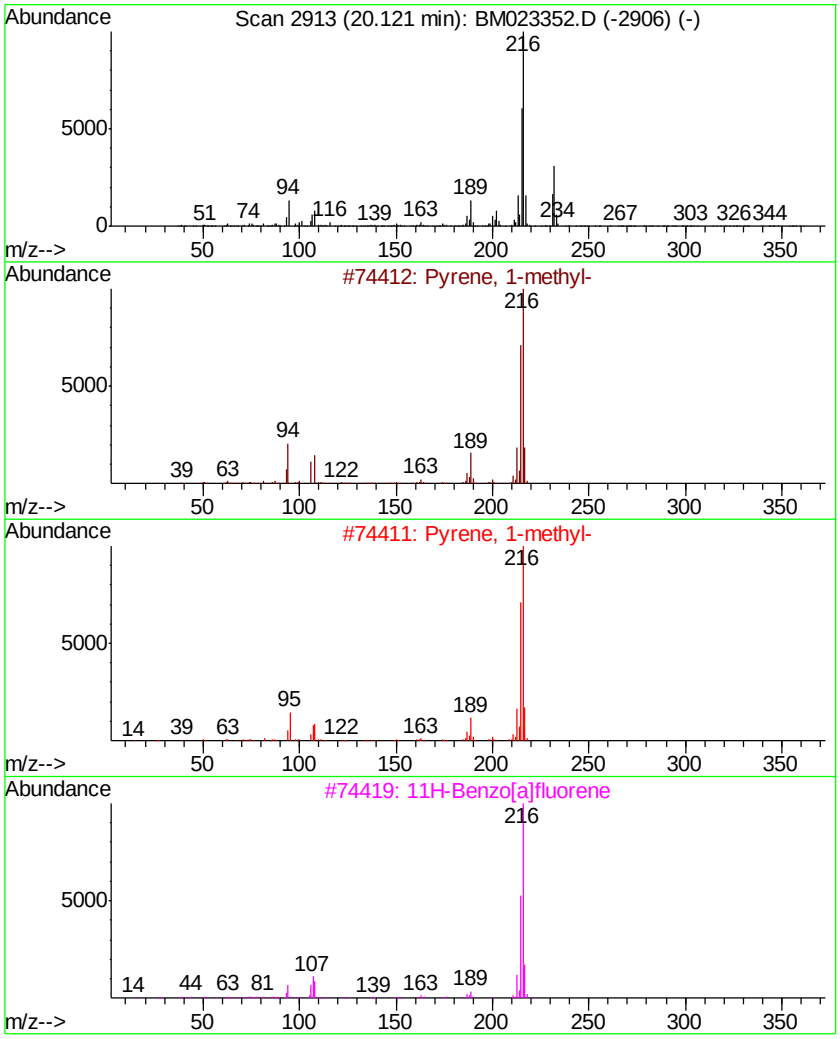
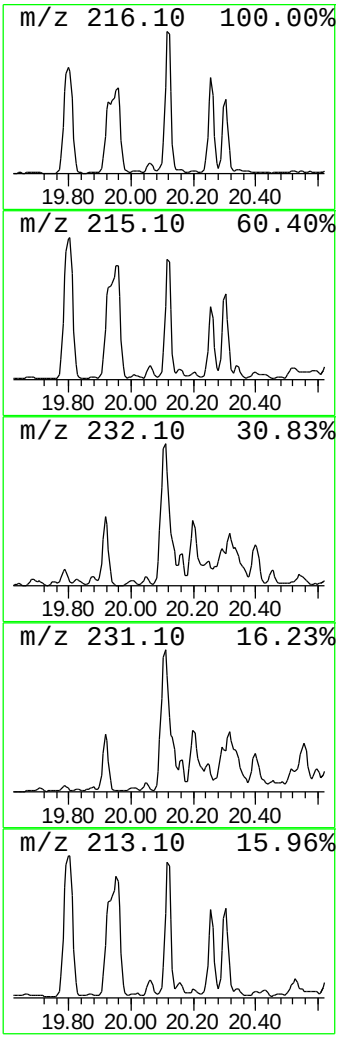
Peak Number 22 Pyrene, 1-methyl- Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.12	3.32 ng/ul	9951920	Chrysene-d12	21.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	92
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	92
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91





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Sample : K5378-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
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Quant Title : SVOA CALIBRATION

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

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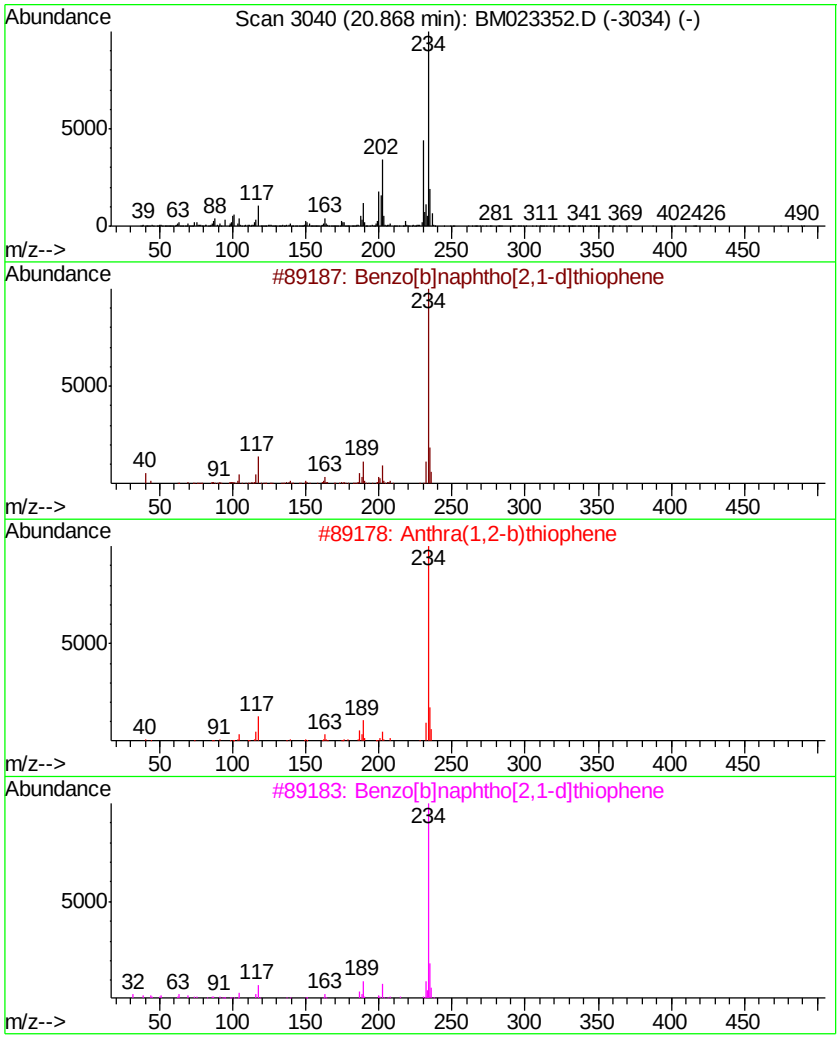
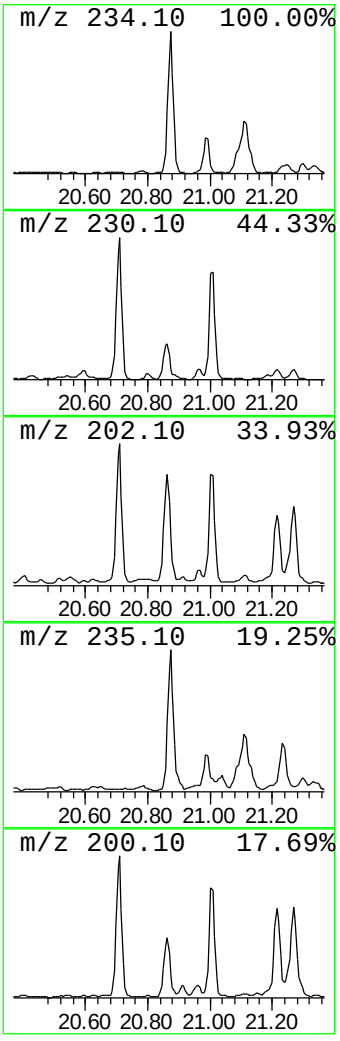
Peak Number 24 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.87	3.39 ng/ul	10150000	Chrysene-d12	21.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	95
2	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	95
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	64
4	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	64
5	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	60





Library Search Compound Report

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Acq On : 23 Oct 2019 21:23
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Sample : K5378-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
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Quant Title : SVOA CALIBRATION

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

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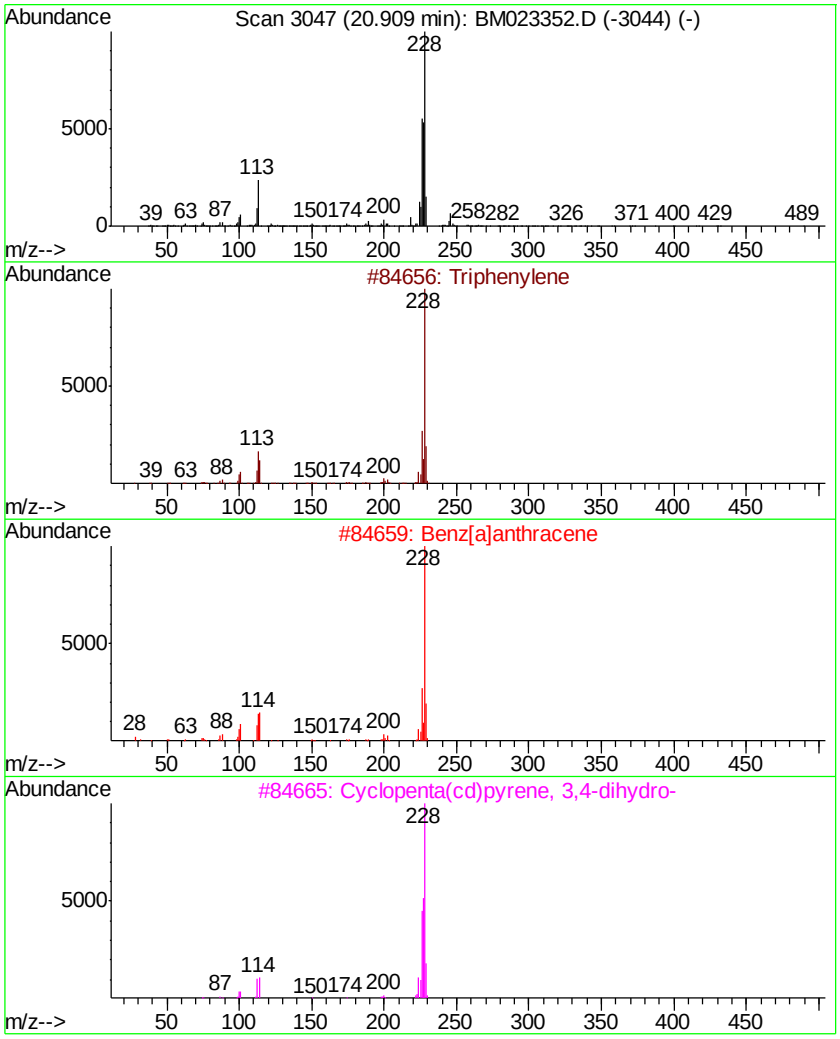
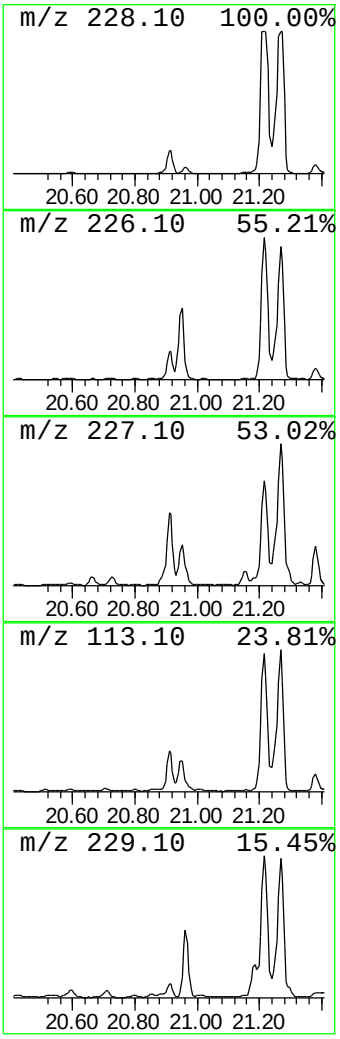
Peak Number 25 Triphenylene Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.91	2.38 ng/ul	7139350	Chrysene-d12	21.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triphenylene	228	C18H12	000217-59-4	55
2	Benz[a]anthracene	228	C18H12	000056-55-3	50
3	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	46
4	Triphenylene	228	C18H12	000217-59-4	43
5	Benz[a]anthracene	228	C18H12	000056-55-3	38





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Sample : K5378-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

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Quant Title : SVOA CALIBRATION

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

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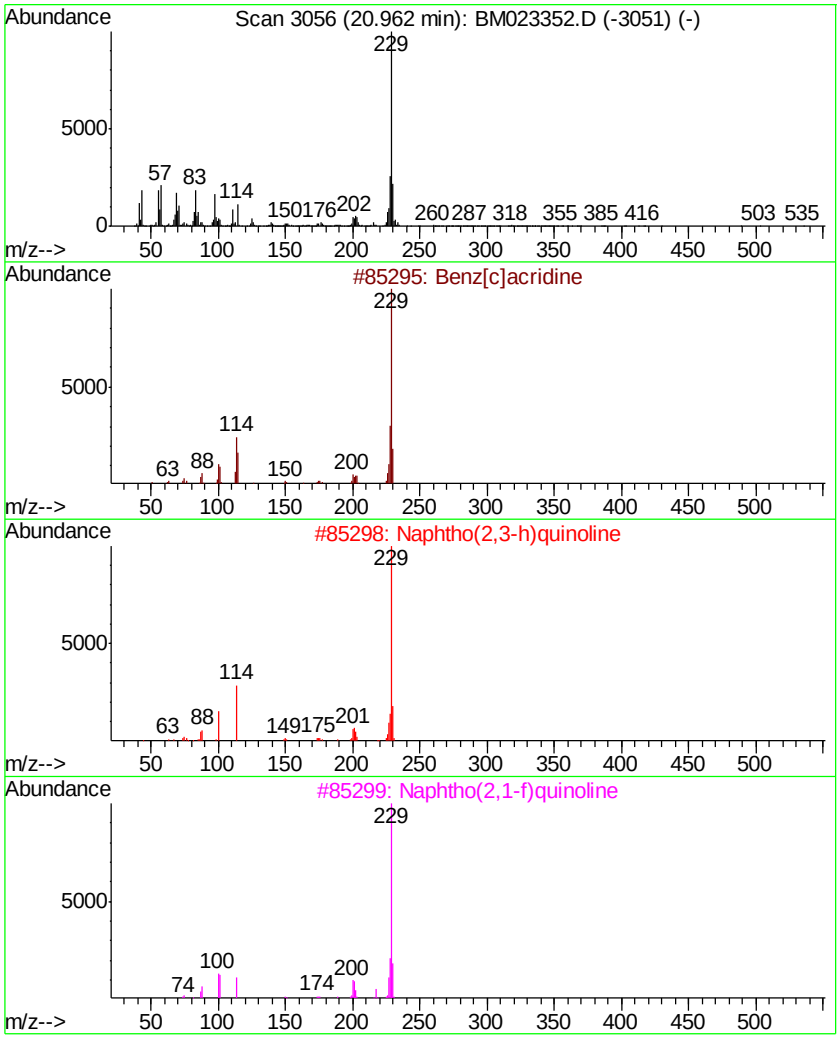
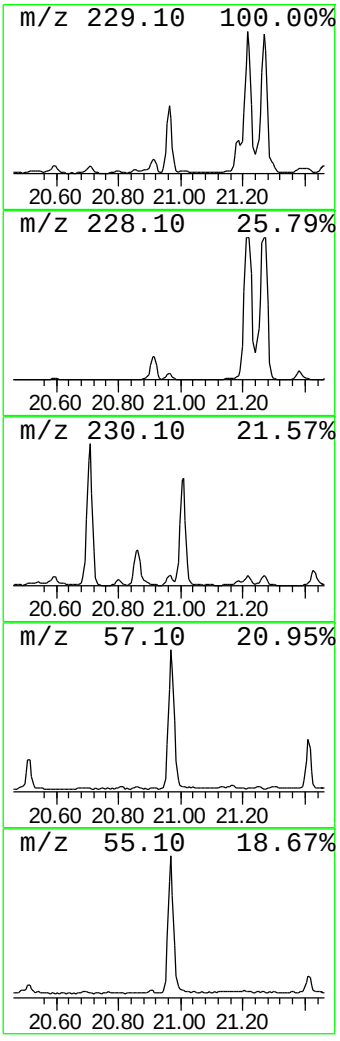
Peak Number 26 Benz[c]acridine Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.96	4.80 ng/ul	14377100	Chrysene-d12	21.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[c]acridine	229	C17H11N	000225-51-4	95
2	Naphtho(2,3-h)quinoline	229	C17H11N	000084-56-0	74
3	Naphtho(2,1-f)quinoline	229	C17H11N	000218-08-6	72
4	Benzimidazole-5-amine, 1-methyl-...	229	C12H11N3S	021444-73-5	58
5	7-Chloro-2-phenazinamine	229	C12H8ClN3	023677-11-4	50





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Instrument : BNA_M
ClientSampleId : C0012

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Quant Title : SVOA CALIBRATION

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

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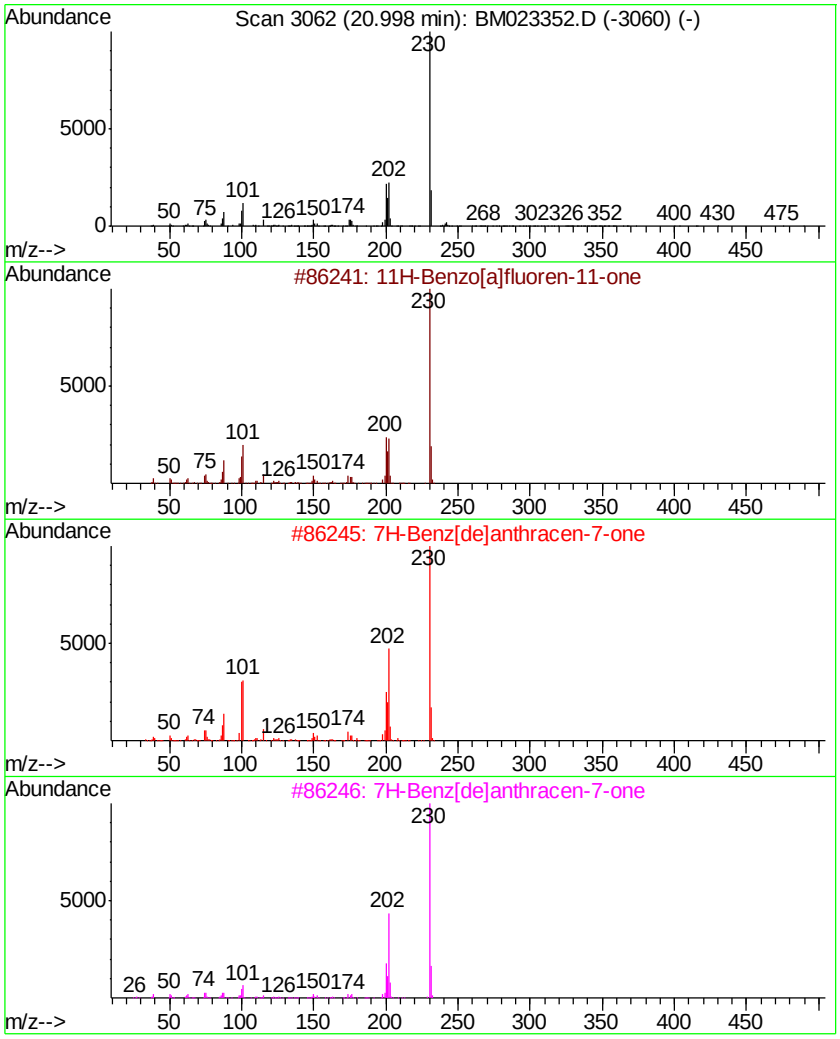
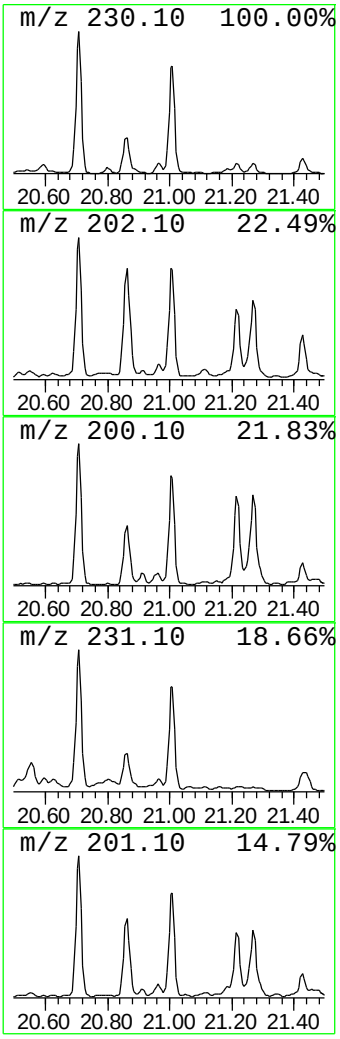
Peak Number 27 11H-Benzo[a]fluoren-11-one Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.00	3.53 ng/ul	10591300	Chrysene-d12	21.23

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	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	74
5	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	70





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Misc :
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Instrument : BNA_M
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Quant Title : SVOA CALIBRATION

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

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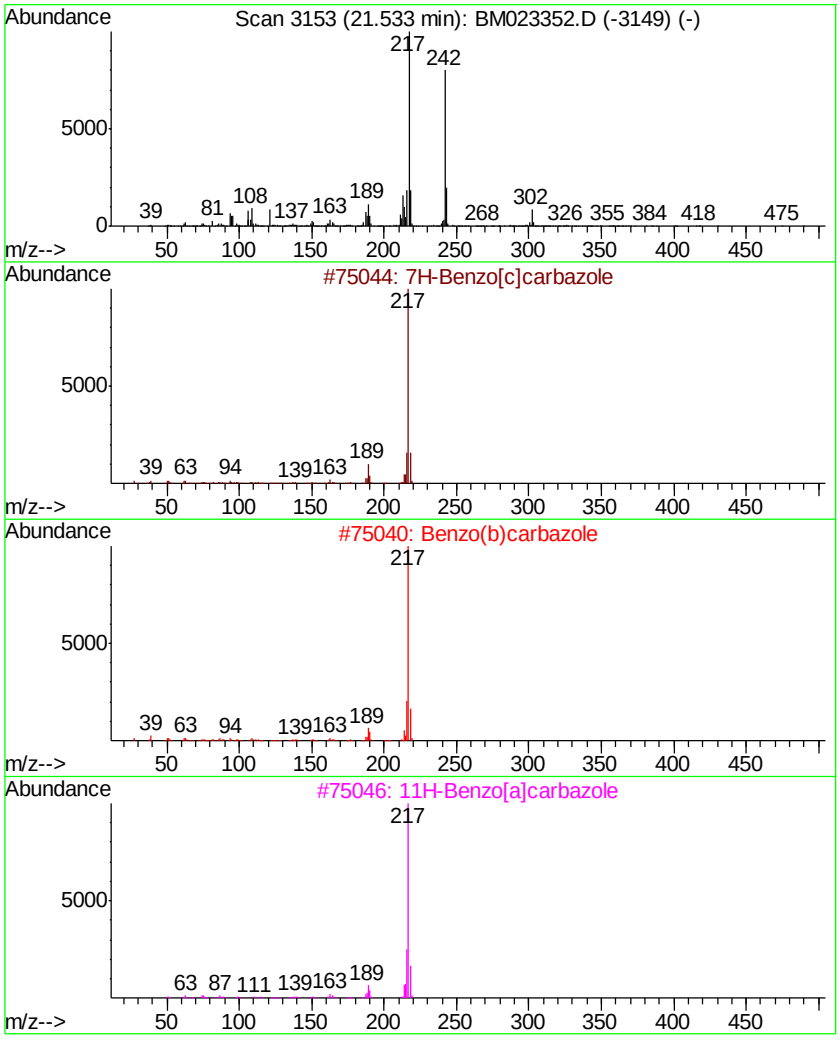
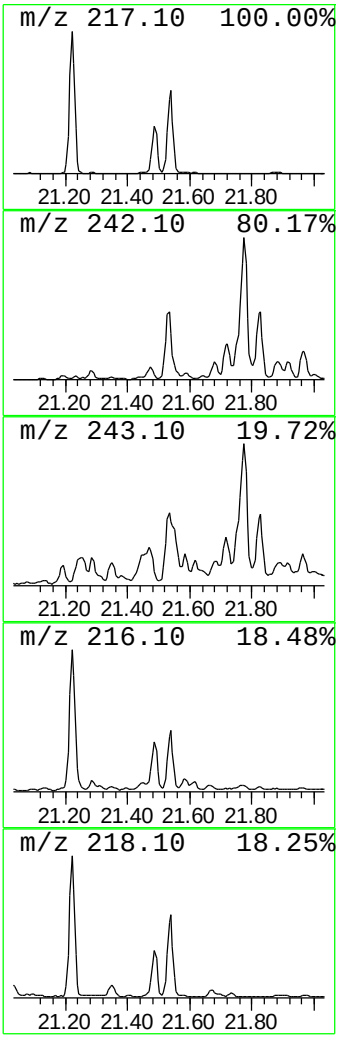
Peak Number 28 unknown-01 Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.53	2.45 ng/ul	7346940	Chrysene-d12	21.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benzo[c]carbazole	217	C16H11N	000205-25-4	46
2	Benzo(b)carbazole	217	C16H11N	000243-28-7	45
3	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	41
4	1-Aminopyrene	217	C16H11N	001606-67-3	38
5	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	38





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Quant Title : SVOA CALIBRATION

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

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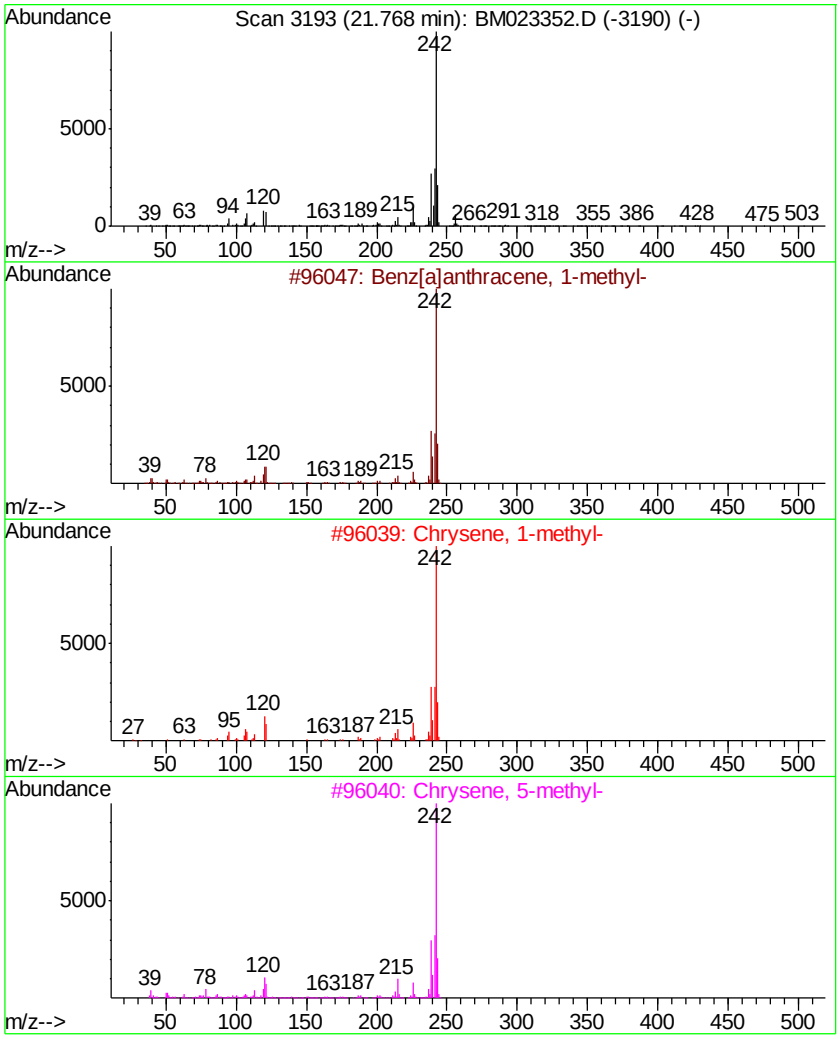
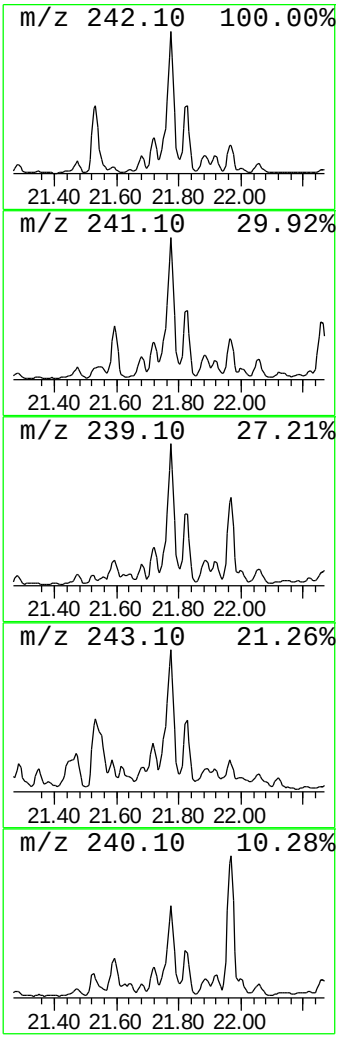
Peak Number 29 Benz[a]anthracene, 1-methyl- Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.77	2.49 ng/ul	7467240	Chrysene-d12	21.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 1-methyl-	242	C19H14	002498-77-3	93
2	Chrysene, 1-methyl-	242	C19H14	003351-28-8	90
3	Chrysene, 5-methyl-	242	C19H14	003697-24-3	90
4	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	90
5	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	90





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Quant Title : SVOA CALIBRATION

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

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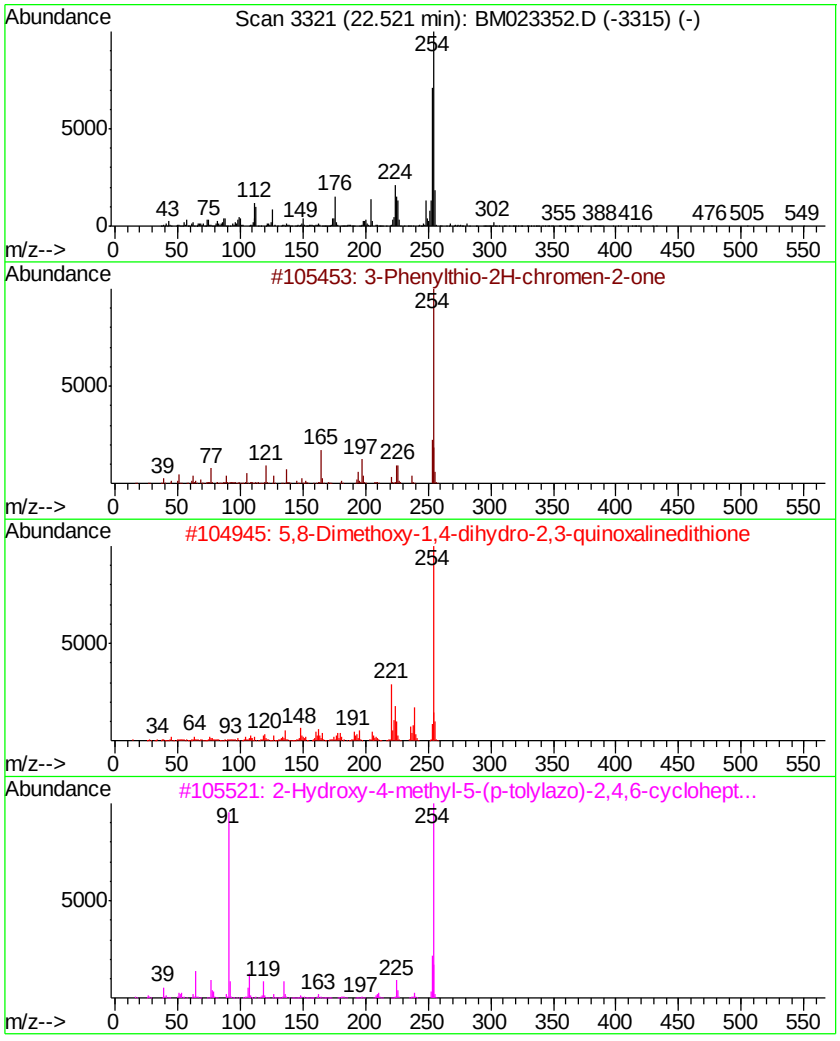
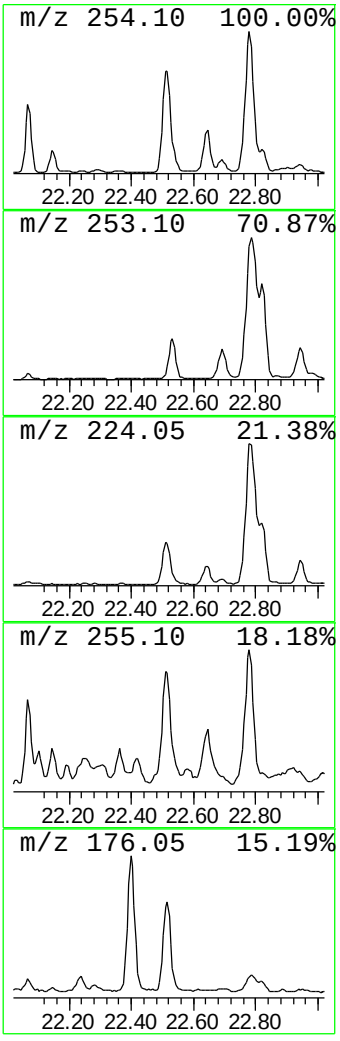
Peak Number 30 3-Phenylthio-2H-chromen-2-one Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.52	19.35 ng/ul	7095800	Perylene-d12	23.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Phenylthio-2H-chromen-2-one	254	C15H10O2S	072167-95-4	53
2	5,8-Dimethoxy-1,4-dihydro-2,3-qu...	254	C10H10N2O2S2	001790-96-1	50
3	2-Hydroxy-4-methyl-5-(p-tolylazo...	254	C15H14N2O2	066777-90-0	50
4	2,5-Cyclohexadien-1-one, 4-[[4-(...	254	C16H18N2O	1000319-40-8	49
5	Estra-1,3,5(10),16-tetraen-3-ol	254	C18H22O	001150-90-9	49





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM102319\
Data File : BM023352.D
Acq On : 23 Oct 2019 21:23
Operator : JU
Sample : K5378-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

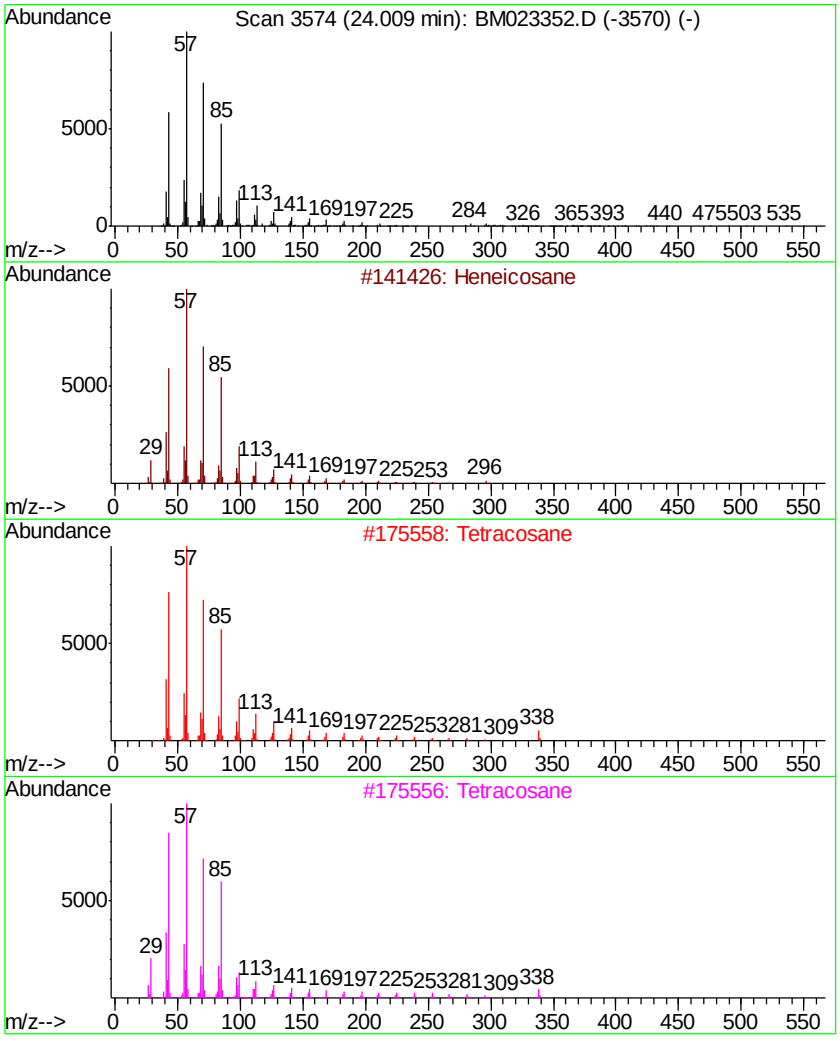
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM102319MA.M
Quant Title : SVOA CALIBRATION

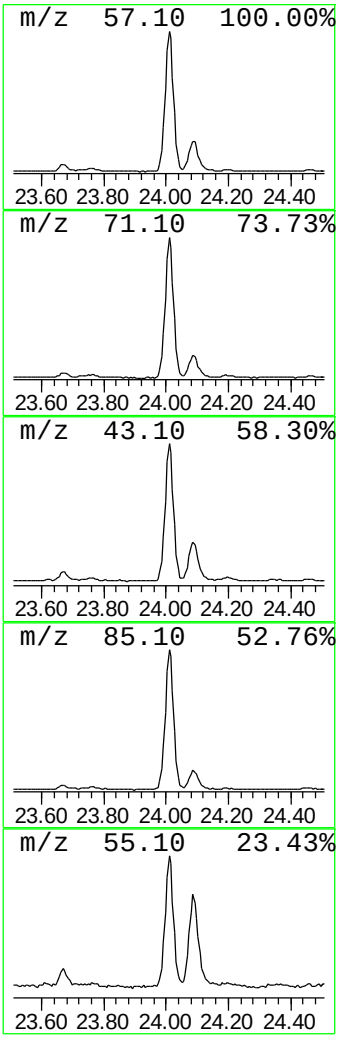
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 33 (DEL) Alkane: Straight-Chai... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.01	10.77 ng/ul	3949160	Perylene-d12	23.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	99
2	Tetracosane	338	C24H50	000646-31-1	94
3	Tetracosane	338	C24H50	000646-31-1	94
4	Docosane, 11-butyl-	366	C26H54	013475-76-8	94
5	Heneicosane	296	C21H44	000629-94-7	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM102319\
Data File : BM023352.D
Acq On : 23 Oct 2019 21:23
Operator : JU
Sample : K5378-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM102319MA.M
Quant Title : SVOA 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
[1,1'-Biphenyl]-4...	15.78	2.7	ng/ul	1312380	4	17.03	9754350	20.0
Naphtho[2,1-b]fur...	16.57	2.0	ng/ul	995043	4	17.03	9754350	20.0
9H-Fluoren-9-one	16.69	11.2	ng/ul	5469820	4	17.03	9754350	20.0
Phenol, 4-(2-phen...	16.77	3.4	ng/ul	1631420	4	17.03	9754350	20.0
Dibenzothiophene	16.85	4.9	ng/ul	2399820	4	17.03	9754350	20.0
Dibenzo[a,e]cyclo...	17.56	3.3	ng/ul	1622950	4	17.03	9754350	20.0
Anthrone	17.62	4.3	ng/ul	2101860	4	17.03	9754350	20.0
Phenanthrene, 2-m...	17.91	14.4	ng/ul	7018590	4	17.03	9754350	20.0
Phenanthrene, 1-m...	17.96	25.8	ng/ul	12591100	4	17.03	9754350	20.0
1H-Cyclopropa[l]p...	18.04	5.8	ng/ul	2846700	4	17.03	9754350	20.0
Benzaldehyde, 3,5...	18.10	18.7	ng/ul	9119040	4	17.03	9754350	20.0
Phenanthrene, 4-m...	18.14	8.9	ng/ul	4364700	4	17.03	9754350	20.0
Naphthalene, 2-ph...	18.42	14.7	ng/ul	7148760	4	17.03	9754350	20.0
9,10-Anthracenedione	18.45	18.8	ng/ul	9174240	4	17.03	9754350	20.0
Anthracene, 2-ethyl-	18.66	4.7	ng/ul	2273360	4	17.03	9754350	20.0
Phenanthrene, 1,7...	18.72	3.1	ng/ul	1518870	4	17.03	9754350	20.0
Phenanthrene, 2,5...	18.84	12.9	ng/ul	6300210	4	17.03	9754350	20.0
Phenanthrene, 3,6...	18.90	5.3	ng/ul	2574410	4	17.03	9754350	20.0
Naphthalene, 1,2-...	18.93	2.8	ng/ul	1376300	4	17.03	9754350	20.0
Cyclopenta(def)ph...	18.97	17.2	ng/ul	8385910	4	17.03	9754350	20.0
Pyrene, 1-methyl-	20.12	3.3	ng/ul	9951920	5	21.23	59951900	20.0
Benzo[b]naphtho[2...	20.87	3.4	ng/ul	10150000	5	21.23	59951900	20.0
Triphenylene	20.91	2.4	ng/ul	7139350	5	21.23	59951900	20.0
Benz[c]acridine	20.96	4.8	ng/ul	14377100	5	21.23	59951900	20.0
11H-Benzo[a]fluor...	21.00	3.5	ng/ul	10591300	5	21.23	59951900	20.0
unknown-01	21.53	2.5	ng/ul	7346940	5	21.23	59951900	20.0
Benz[a]anthracene...	21.77	2.5	ng/ul	7467240	5	21.23	59951900	20.0
3-Phenylthio-2H-c...	22.52	19.4	ng/ul	7095800	6	23.43	7335740	20.0
(DEL) Alkane: Str...	24.01	10.8	ng/ul	3949160	6	23.43	7335740	20.0