LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
Data File : BM042523.D
Acq On : 31 Oct 2023 22:35
Operator : MA/JU
Sample : 04938-13 10X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A-7(0-2)

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_M\Methods\8270-BM103023.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BM042523.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.922	798	805	813	rBV	285512	454380	2.77%	0.289%
2	10.745	1277	1285	1289	rBV	343379	574963	3.50%	0.365%
3	13.192	1691	1701	1708	rBV	133329	184979	1.13%	0.118%
4	14.304	1883	1890	1901	rBV	193000	312759	1.90%	0.199%
5	14.574	1926	1936	1941	rBV	490110	746571	4.55%	0.474%
6	14.639	1941	1947	1952	rVB	202259	300228	1.83%	0.191%
7	15.621	2107	2114	2124	rVB	291880	458402	2.79%	0.291%
8	16.068	2177	2190	2195	rBV3	143737	289073	1.76%	0.184%
9	16.615	2275	2283	2287	rBV3	76395	164868	1.00%	0.105%
10	16.986	2339	2346	2351	rBV	136324	203918	1.24%	0.130%
11	17.145	2367	2373	2383	rVB	337558	489915	2.98%	0.311%
12	17.327	2398	2404	2407	rBV	602165	869201	5.29%	0.552%
13	17.374	2407	2412	2419	rVV	4455143	5847187	35.61%	3.715%
14	17.462	2419	2427	2434	rVV	1060186	1511947	9.21%	0.961%
15	17.751	2472	2476	2486	rVV	366062	567790	3.46%	0.361%
16	17.839	2486	2491	2497	rVV	125027	202834	1.24%	0.129%
17	17.903	2497	2502	2511	rVB2	152962	260028	1.58%	0.165%
18	18.045	2521	2526	2532	rVB	95595	196930	1.20%	0.125%
19	18.192	2544	2551	2556	rBV	481501	869056	5.29%	0.552%
20	18.245	2556	2560	2568	rVB	602214	824905	5.02%	0.524%
21	18.327	2569	2574	2579	rBV	228779	315528	1.92%	0.200%
22	18.398	2579	2586	2589	rBV3	917347	1609150	9.80%	1.022%
23	18.427	2589	2591	2596	rVB	339896	416958	2.54%	0.265%
24	18.698	2631	2637	2642	rBV	446414	585005	3.56%	0.372%
25	18.762	2642	2648	2653	rVB2	401437	542185	3.30%	0.344%
26	19.103	2702	2706	2711	rBV	269211	409074	2.49%	0.260%
27	19.168	2712	2717	2721	rVV3	140052	248637	1.51%	0.158%
28	19.274	2727	2735	2740	rBV	545747	819165	4.99%	0.520%
29	19.398	2748	2756	2760	rBV	10731079	15642979	95.27%	9.939%
30	19.450	2760	2765	2767	rVV3	90193	166834	1.02%	0.106%
31	19.486	2768	2771	2775	rVB2	160119	220198	1.34%	0.140%
32	19.533	2775	2779	2783	rBV	302962	373289	2.27%	0.237%
33	19.627	2791	2795	2805	rVB3	446566	904748	5.51%	0.575%
34	19.721	2805	2811	2813	rBV2	1306543	2355853	14.35%	1.497%
35	19.762	2813	2818	2823	rVV	10657260	14977039	91.22%	9.516%
36	19.809	2823	2826	2831	rVB2	286749	362739	2.21%	0.230%

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
Data File : BM042523.D
Acq On : 31 Oct 2023 22:35
Operator : MA/JU
Sample : 04938-13 10X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A-7(0-2)

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_M\Methods\8270-BM103023.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	19.927	2841	2846	2851	rBV2	484392	831610	5.06%	0.528%
38	20.003	2854	2859	2863	rVB	559532	781767	4.76%	0.497%
39	20.056	2863	2868	2876	rVB3	512803	1205931	7.34%	0.766%
40	20.145	2878	2883	2887	rBV2	244367	416077	2.53%	0.264%
41	20.203	2887	2893	2895	rVV3	481710	925255	5.64%	0.588%
42	20.239	2896	2899	2904	rVB	910445	1176301	7.16%	0.747%
43	20.339	2912	2916	2919	rBV	638444	758081	4.62%	0.482%
44	20.397	2919	2926	2929	rVV2	605822	1022210	6.23%	0.649%
45	20.427	2929	2931	2935	rVB2	238308	259032	1.58%	0.165%
46	20.533	2946	2949	2953	rBV2	474292	564959	3.44%	0.359%
47	20.580	2953	2957	2963	rVB	463437	593720	3.62%	0.377%
48	20.992	3023	3027	3033	rVB	940401	1219742	7.43%	0.775%
49	21.150	3050	3054	3058	rBV2	1236414	1714875	10.44%	1.090%
50	21.192	3058	3061	3064	rVV	951875	1162274	7.08%	0.738%
51	21.233	3064	3068	3073	rVV2	1082716	1850330	11.27%	1.176%
52	21.292	3075	3078	3083	rVB	963333	1227200	7.47%	0.780%
53	21.392	3093	3095	3099	rBV	209094	232586	1.42%	0.148%
54	21.497	3104	3113	3119	rVV2	7612702	16418883	100.00%	10.432%
55	21.556	3119	3123	3138	rVB2	7919259	13217793	80.50%	8.398%
56	21.668	3138	3142	3149	rVB	1183912	1563195	9.52%	0.993%
57	21.733	3149	3153	3156	rBV2	420254	567787	3.46%	0.361%
58	21.803	3161	3165	3166	rBV	362813	442284	2.69%	0.281%
59	21.827	3167	3169	3171	rBV	255282	275509	1.68%	0.175%
60	21.856	3171	3174	3176	rBV2	360720	381076	2.32%	0.242%
61	22.080	3210	3212	3217	rVB	668732	749480	4.56%	0.476%
62	22.297	3245	3249	3252	rBV	531471	821021	5.00%	0.522%
63	22.615	3300	3303	3307	rVB2	297951	408224	2.49%	0.259%
64	22.915	3349	3354	3364	rVB2	453351	980969	5.97%	0.623%
65	23.209	3395	3404	3408	rBV	5335778	13483153	82.12%	8.566%
66	23.303	3417	3420	3426	rVB2	304544	475312	2.89%	0.302%
67	23.380	3427	3433	3439	rBV	1004271	1765258	10.75%	1.122%
68	23.733	3486	3493	3503	rVB	3238829	6508909	39.64%	4.135%
69	23.844	3504	3512	3518	rBV	4900885	10686805	65.09%	6.790%
70	23.997	3533	3538	3550	rVB	1563328	3312989	20.18%	2.105%
71	26.497	3951	3963	3973	rVB	2221910	7499621	45.68%	4.765%
72	27.303	4089	4100	4115	rVB2	1695803	6615915	40.29%	4.203%

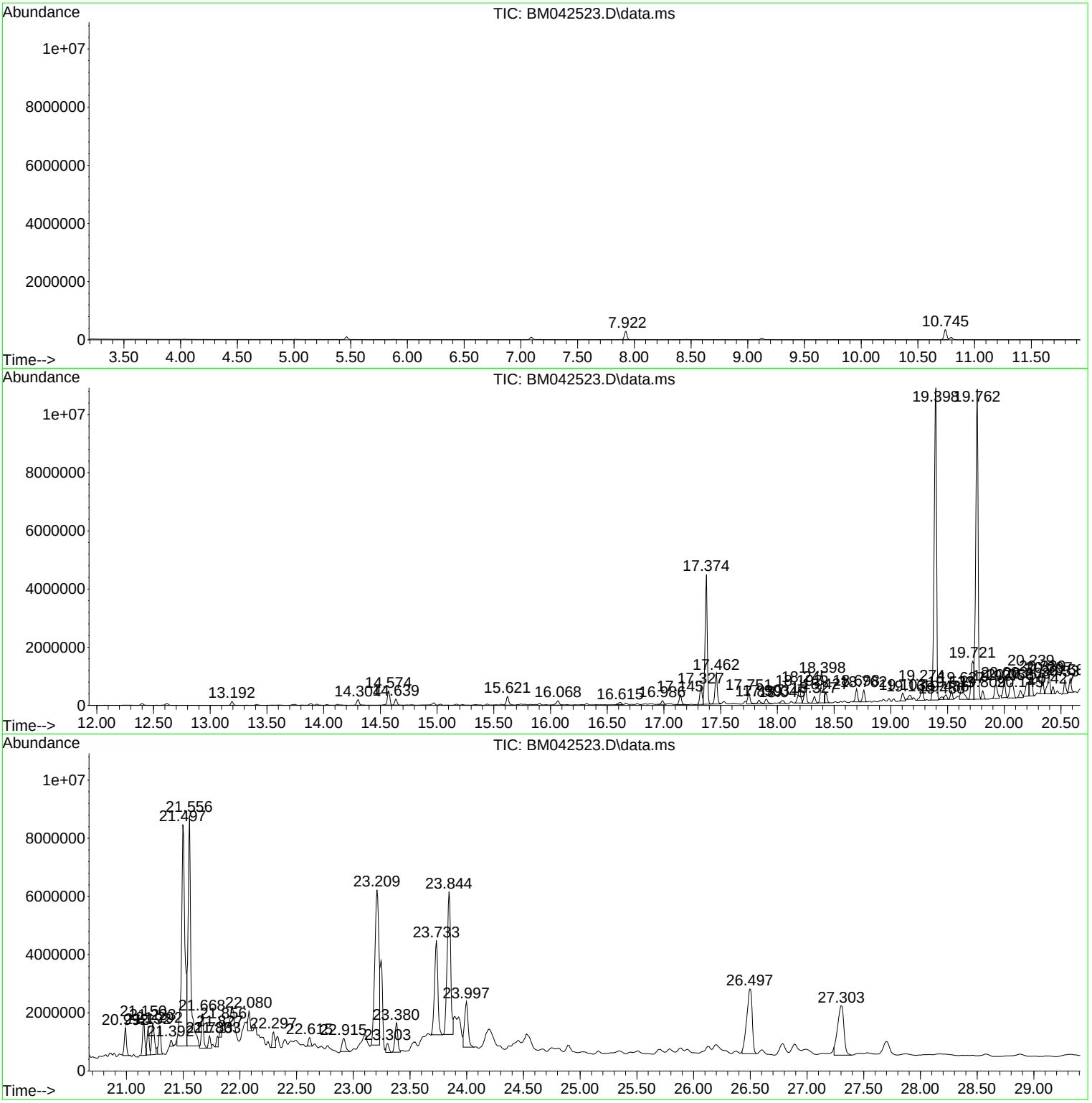
Sum of corrected areas: 157395448

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
Data File : BM042523.D
Acq On : 31 Oct 2023 22:35
Operator : MA/JU
Sample : 04938-13 10X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A-7(0-2)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
Data File : BM042523.D
Acq On : 31 Oct 2023 22:35
Operator : MA/JU
Sample : 04938-13 10X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A-7(0-2)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

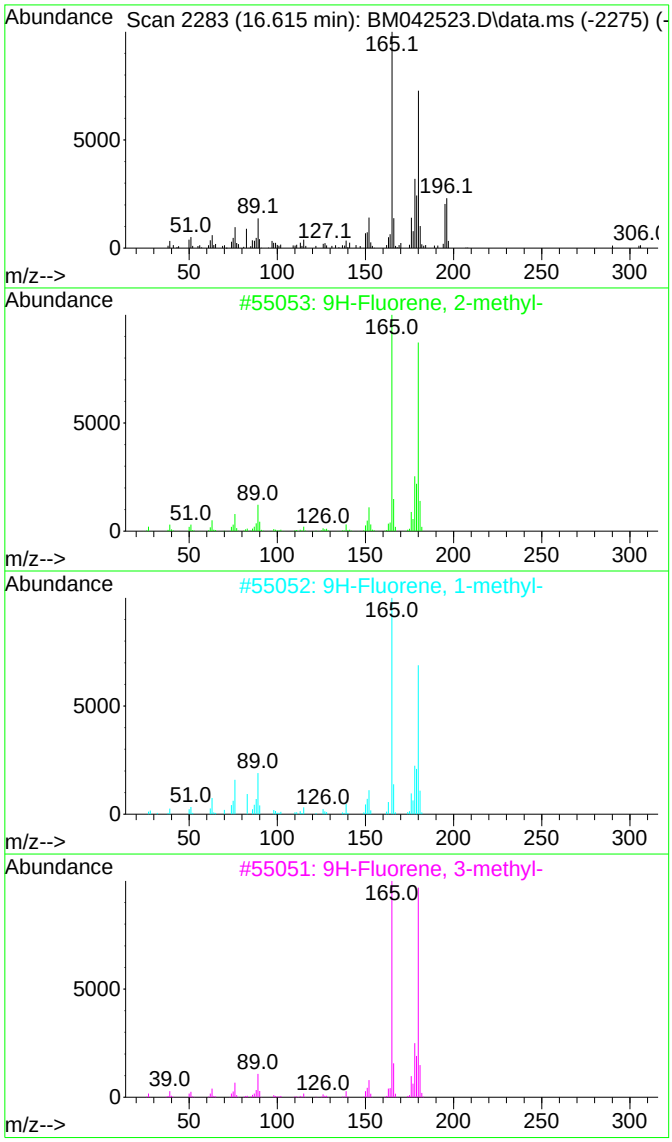
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

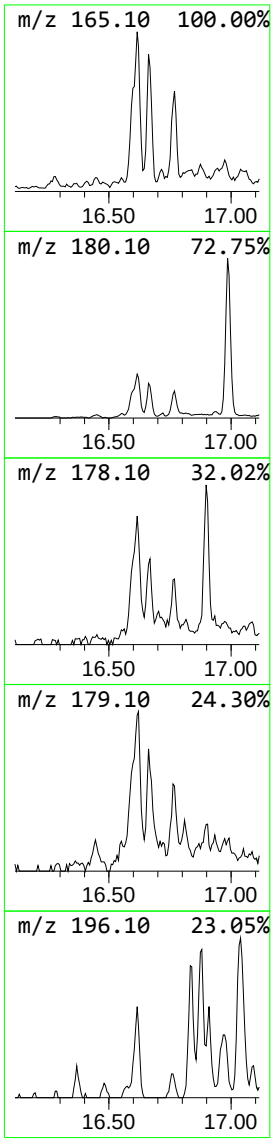
****

Peak Number 1 9H-Fluorene, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.615	3.79 ng	164868	Phenanthrene-d10	17.327

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	95
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	83
4	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	78
5	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	58





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
Data File : BM042523.D
Acq On : 31 Oct 2023 22:35
Operator : MA/JU
Sample : 04938-13 10X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A-7(0-2)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

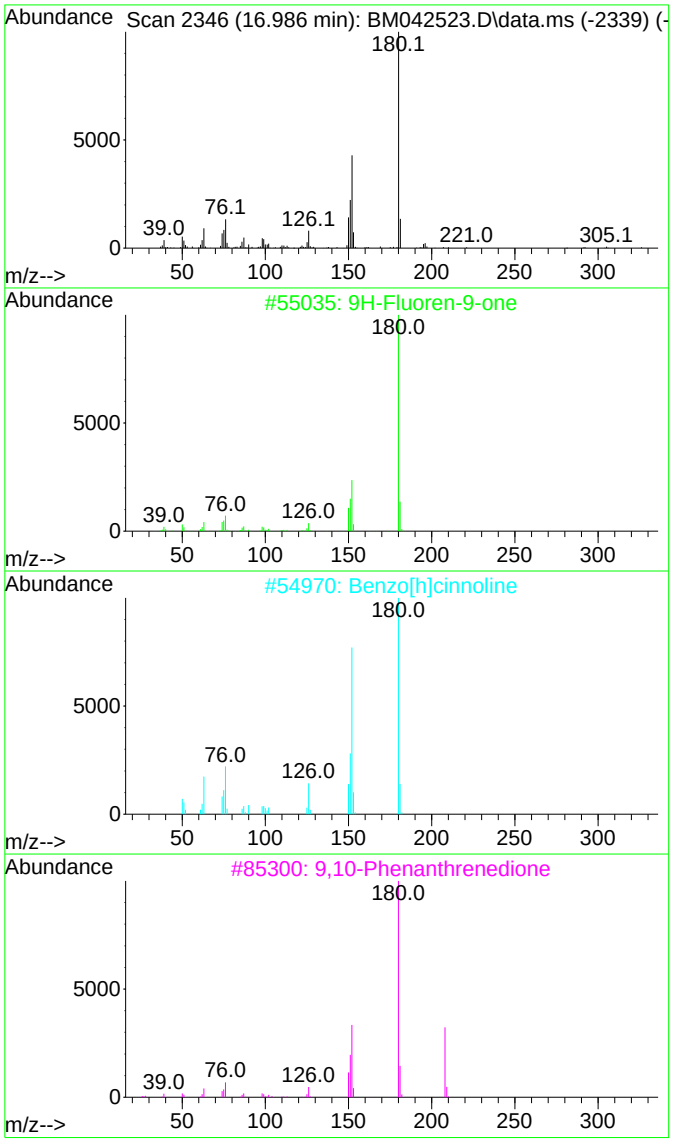
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

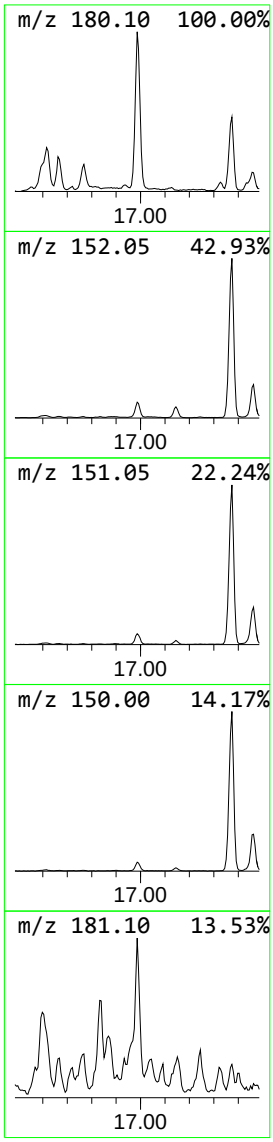
****

Peak Number 2 9H-Fluoren-9-one Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.986	4.69 ng	203918	Phenanthrene-d10	17.327

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	96
2	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	91
3	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	83
4	9,9-Bis[4-aminophenylsulfonyl]fl...	476	C25H20N2O4S2	081269-16-1	78
5	Diphenic anhydride	224	C14H8O3	006050-13-1	68





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
Data File : BM042523.D
Acq On : 31 Oct 2023 22:35
Operator : MA/JU
Sample : 04938-13 10X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A-7(0-2)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

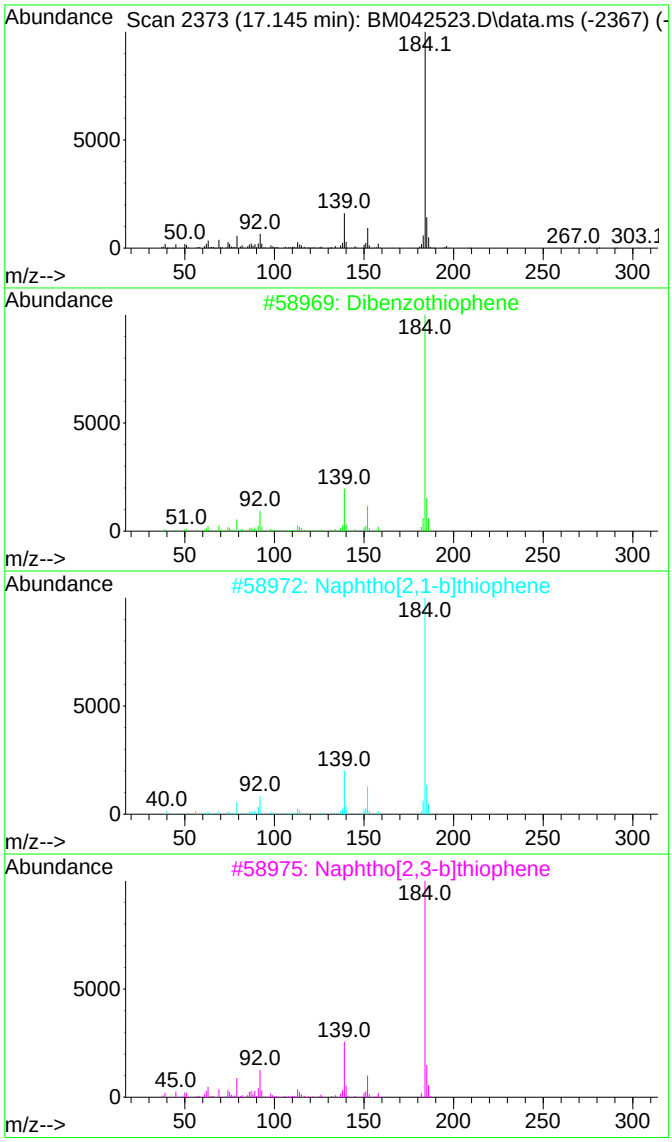
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

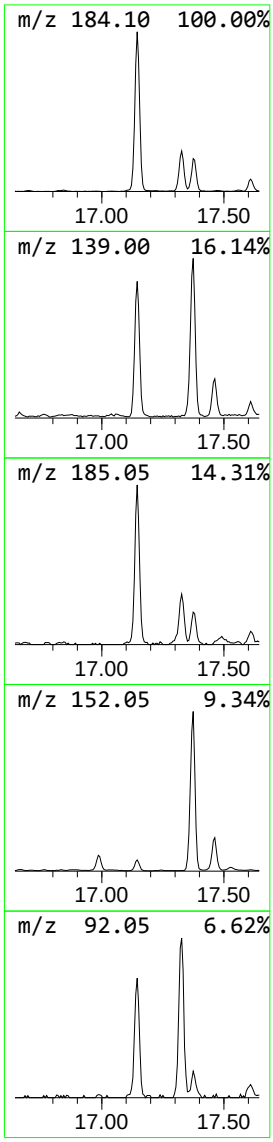
****

Peak Number 3 Dibenzothiophene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.145	11.27 ng	489915	Phenanthrene-d10	17.327

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





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
Data File : BM042523.D
Acq On : 31 Oct 2023 22:35
Operator : MA/JU
Sample : 04938-13 10X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A-7(0-2)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

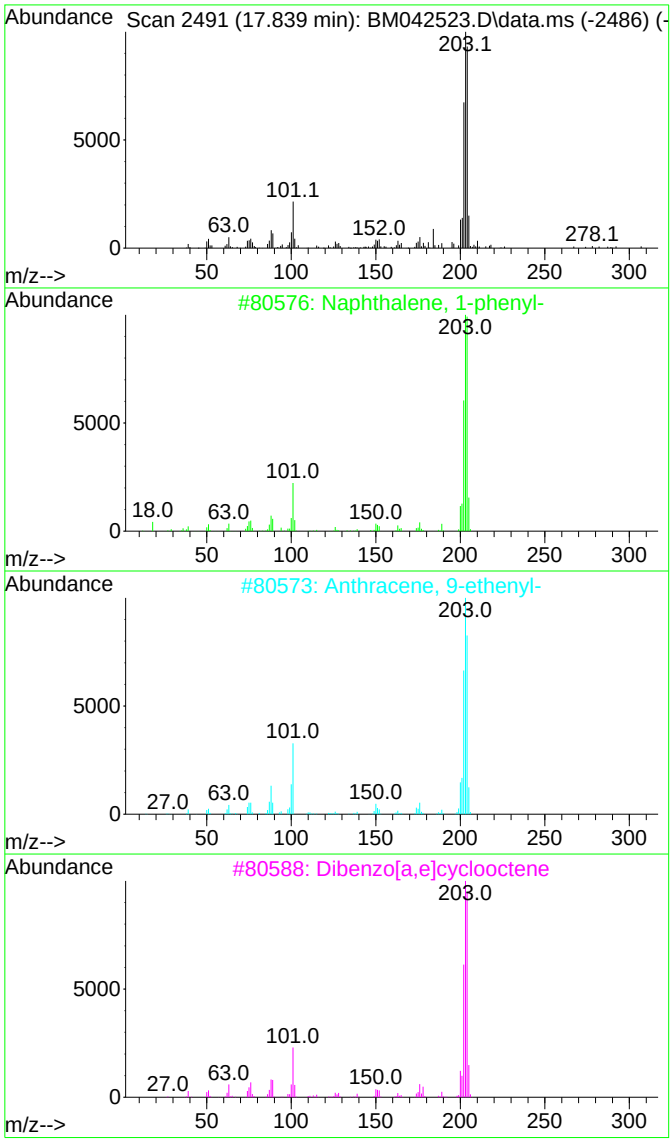
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

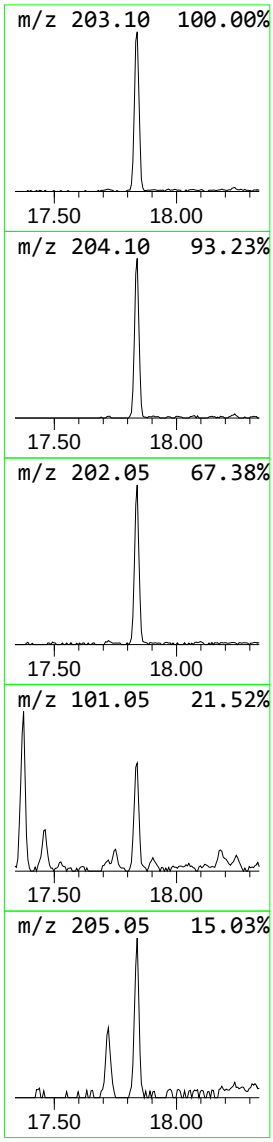
****

Peak Number 4 Naphthalene, 1-phenyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.839	4.67 ng	202834	Phenanthrene-d10	17.327

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	96
2	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	94
3	Dibenzo[a,e]cyclooctene	204	C16H12	000262-89-5	93
4	1H-Indene, 1-(phenylmethylene)-	204	C16H12	005394-86-5	93
5	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	78





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
Data File : BM042523.D
Acq On : 31 Oct 2023 22:35
Operator : MA/JU
Sample : 04938-13 10X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A-7(0-2)

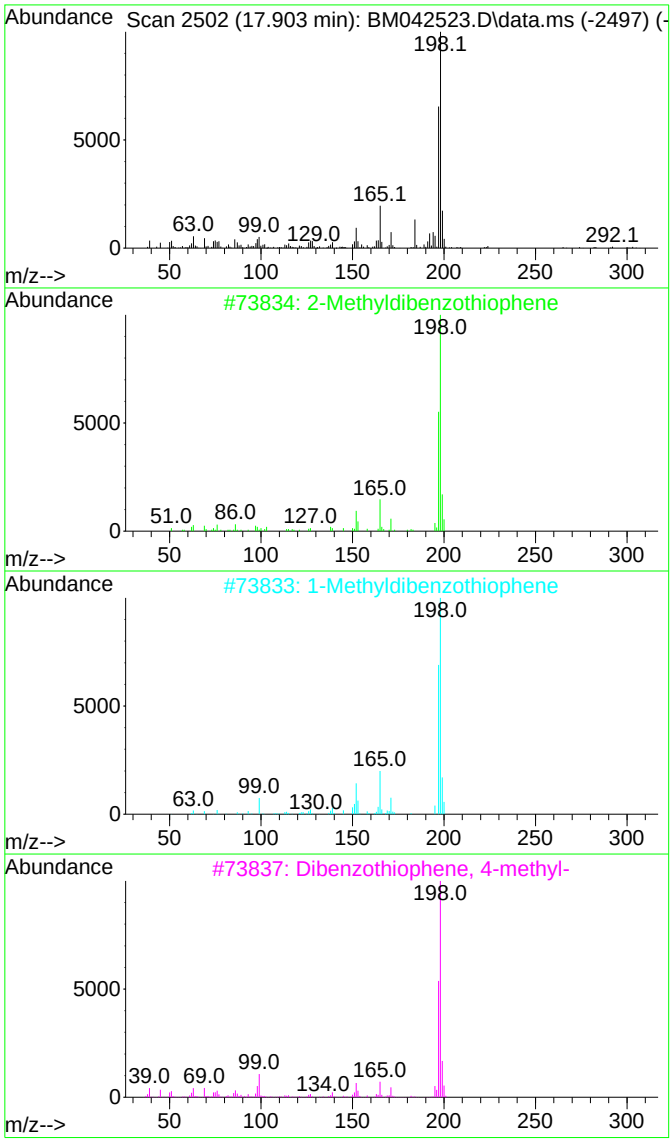
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

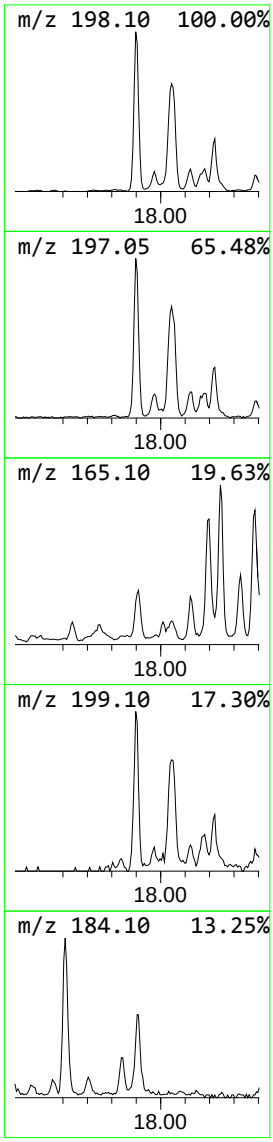
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 2-Methyldibenzothiophene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.904	5.98 ng	260028	Phenanthrene-d10	17.327

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Methyldibenzothiophene	198	C13H10S	1000383-55-1	90
2	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	81
3	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	81
4	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	76
5	Benzene, 1,1'-(1-fluoro-1,2-ethe...	198	C14H11F	000671-19-2	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
Data File : BM042523.D
Acq On : 31 Oct 2023 22:35
Operator : MA/JU
Sample : 04938-13 10X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A-7(0-2)

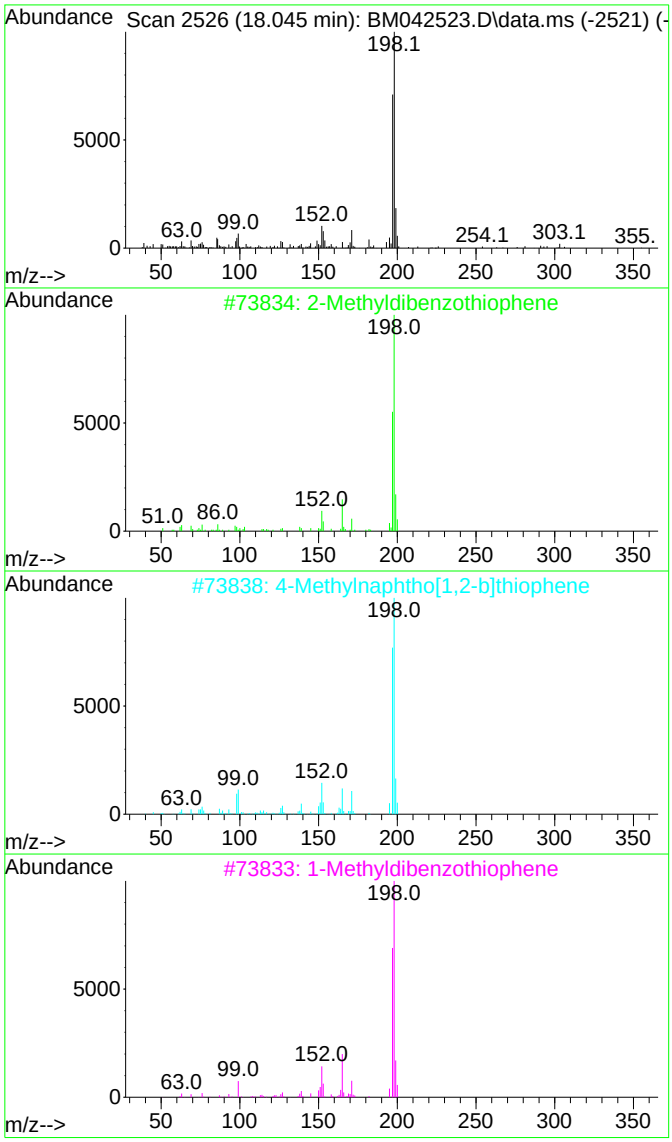
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

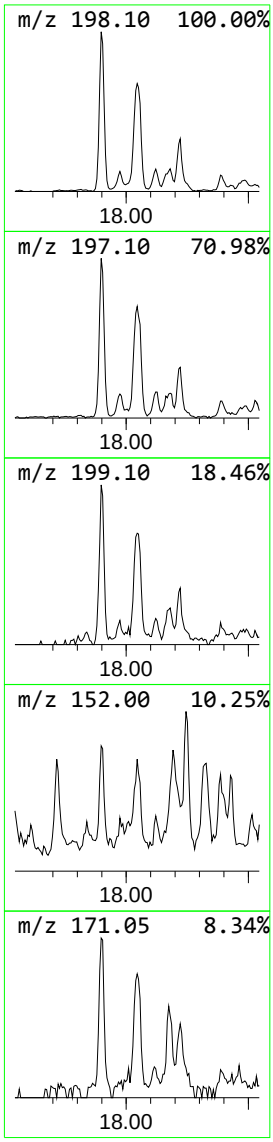
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 4-Methylnaphtho[1,2-b]thiop... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.045	4.53 ng	196930	Phenanthrene-d10	17.327

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Methyldibenzothiophene	198	C13H10S	1000383-55-1	95
2	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	90
3	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	90
4	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	86
5	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	78





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
Data File : BM042523.D
Acq On : 31 Oct 2023 22:35
Operator : MA/JU
Sample : 04938-13 10X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A-7(0-2)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

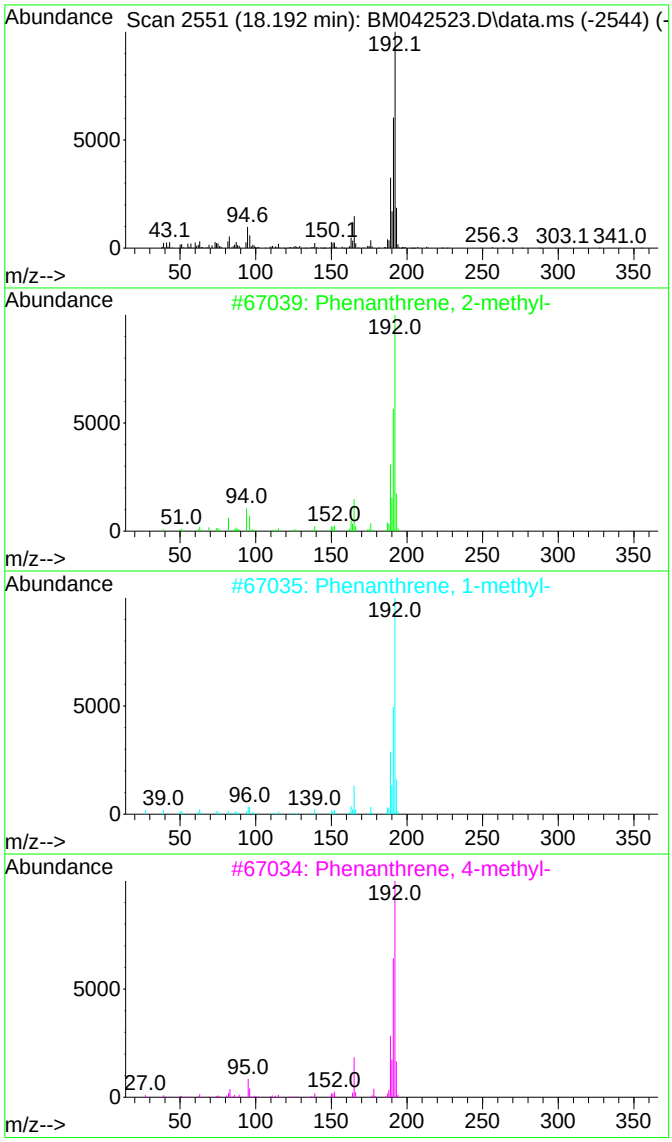
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

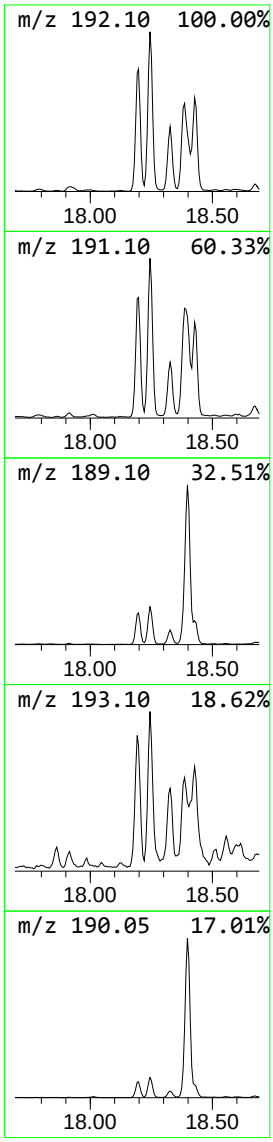
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.192	20.00 ng	869056	Phenanthrene-d10	17.327

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, 4-methyl-	192	C15H12	000832-64-4	95
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95





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Acq On : 31 Oct 2023 22:35
Operator : MA/JU
Sample : 04938-13 10X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
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ClientSampleId :
A-7(0-2)

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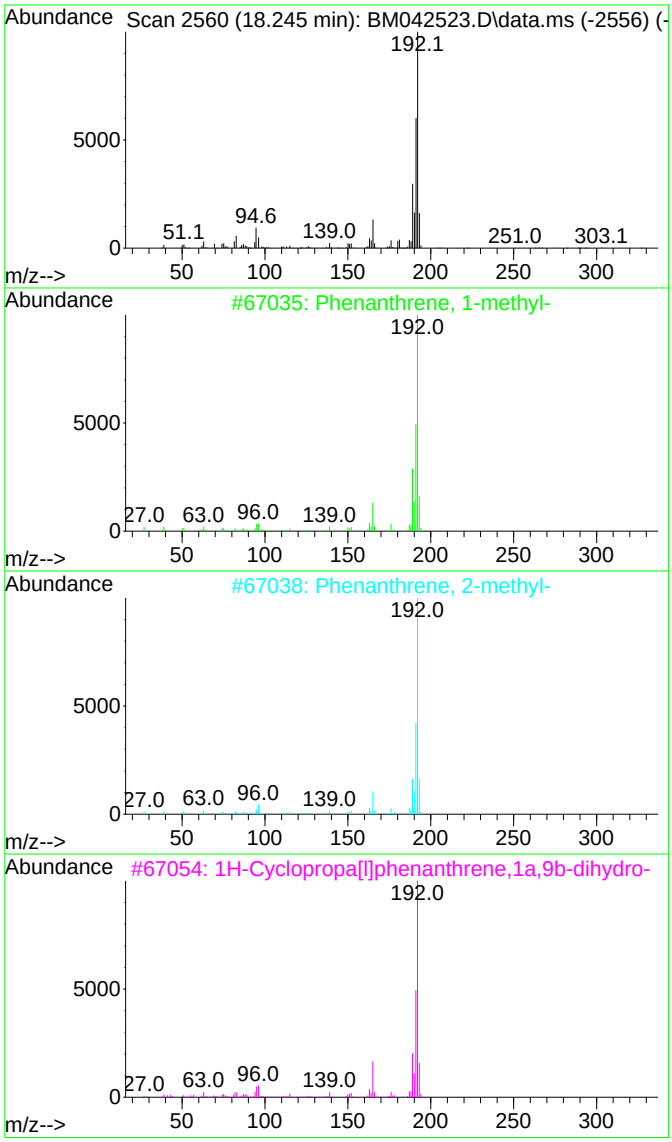
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

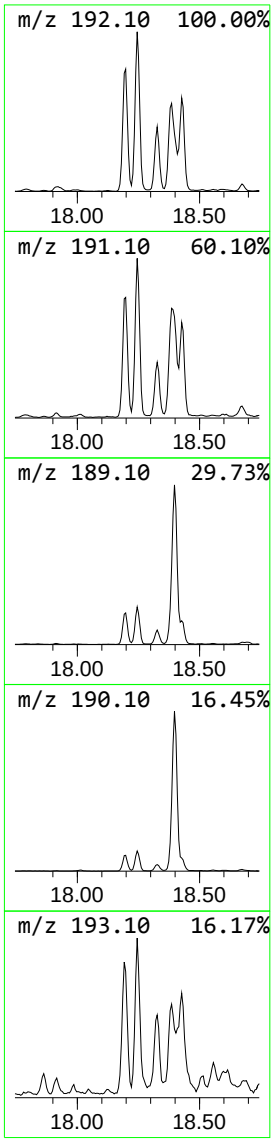
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.245	18.98 ng	824905	Phenanthrene-d10	17.327

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94





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Sample : 04938-13 10X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A-7(0-2)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

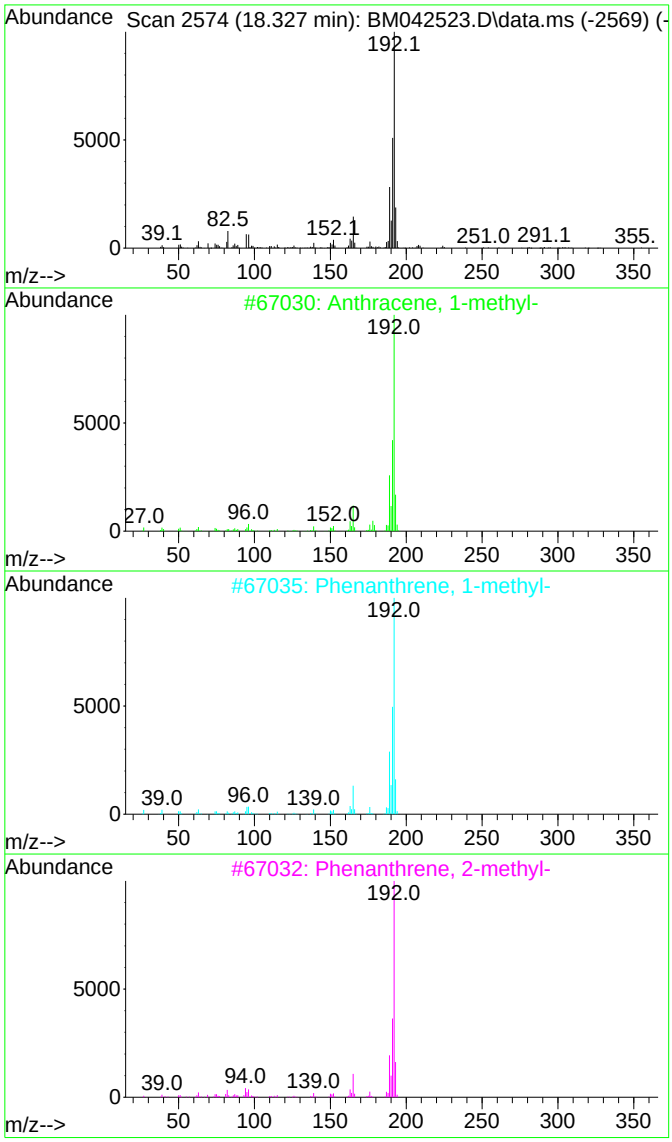
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

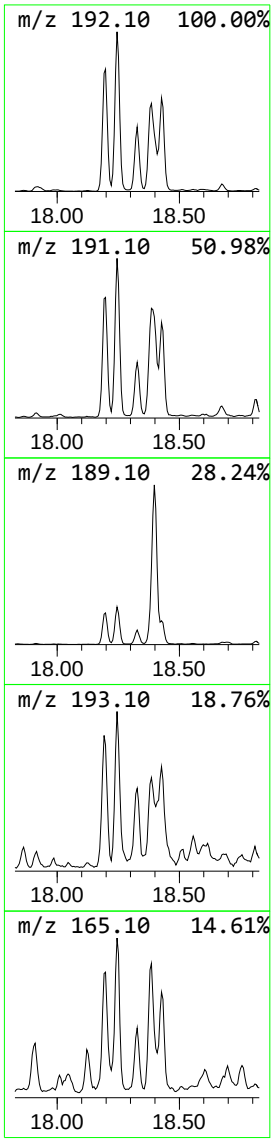
****

Peak Number 9 Anthracene, 1-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.327	7.26 ng	315528	Phenanthrene-d10	17.327

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95





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Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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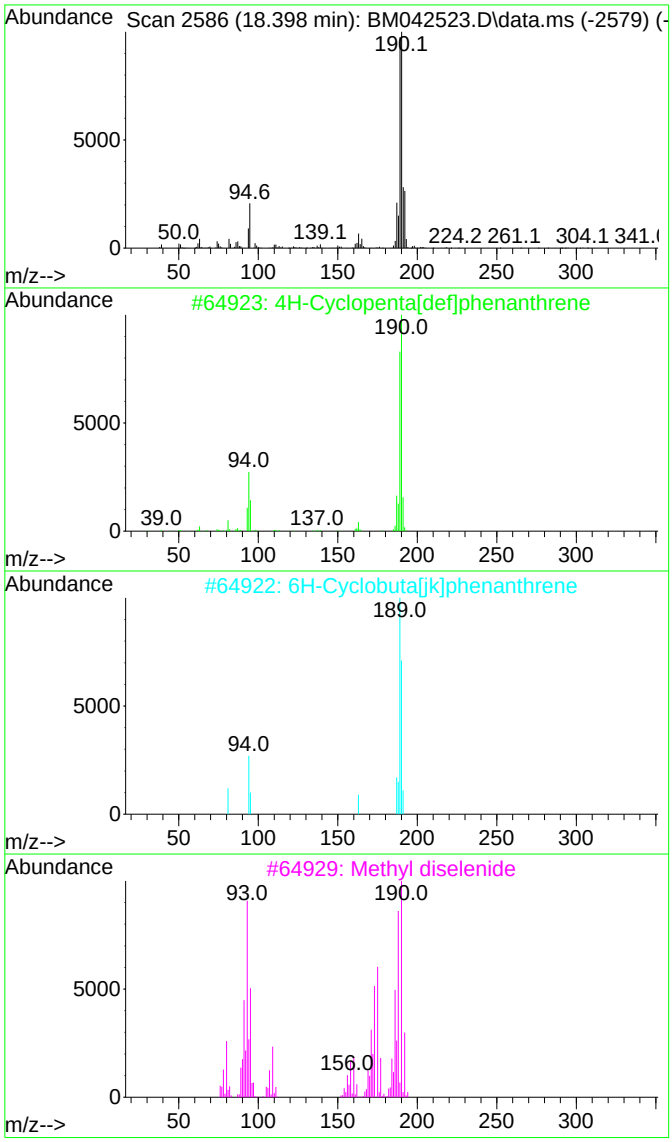
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

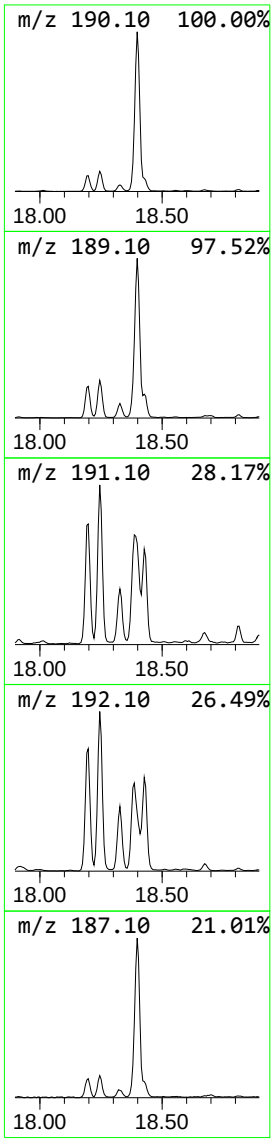
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.398	37.03 ng	1609150	Phenanthrene-d10	17.327

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	87
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	72
3	Methyl diselenide	190	C2H6Se2	007101-31-7	49
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
5	1,1'-Biphenyl, 4,4'-difluoro-	190	C12H8F2	000398-23-2	23





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Sample : 04938-13 10X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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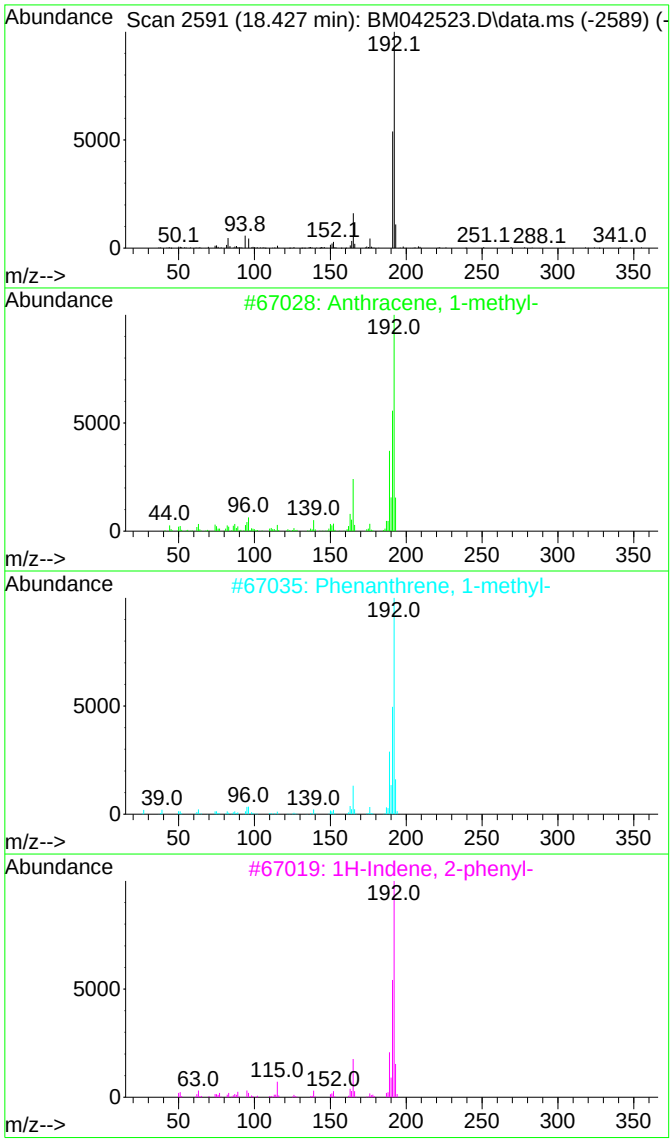
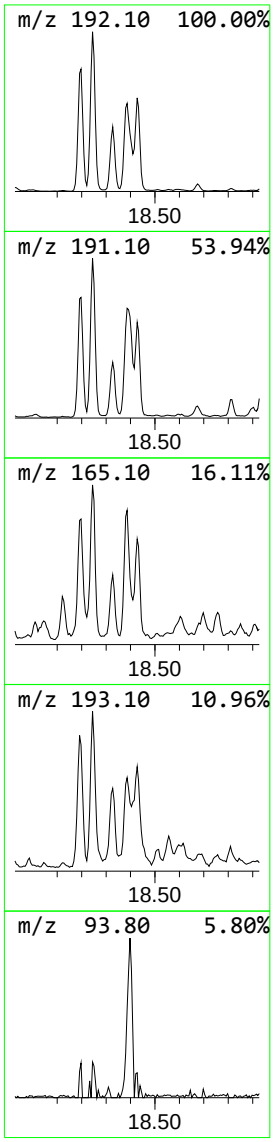
Peak Number 11 1H-Indene, 2-phenyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.427	9.59 ng	416958	Phenanthrene-d10	17.327

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	87
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	83
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	80
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	80





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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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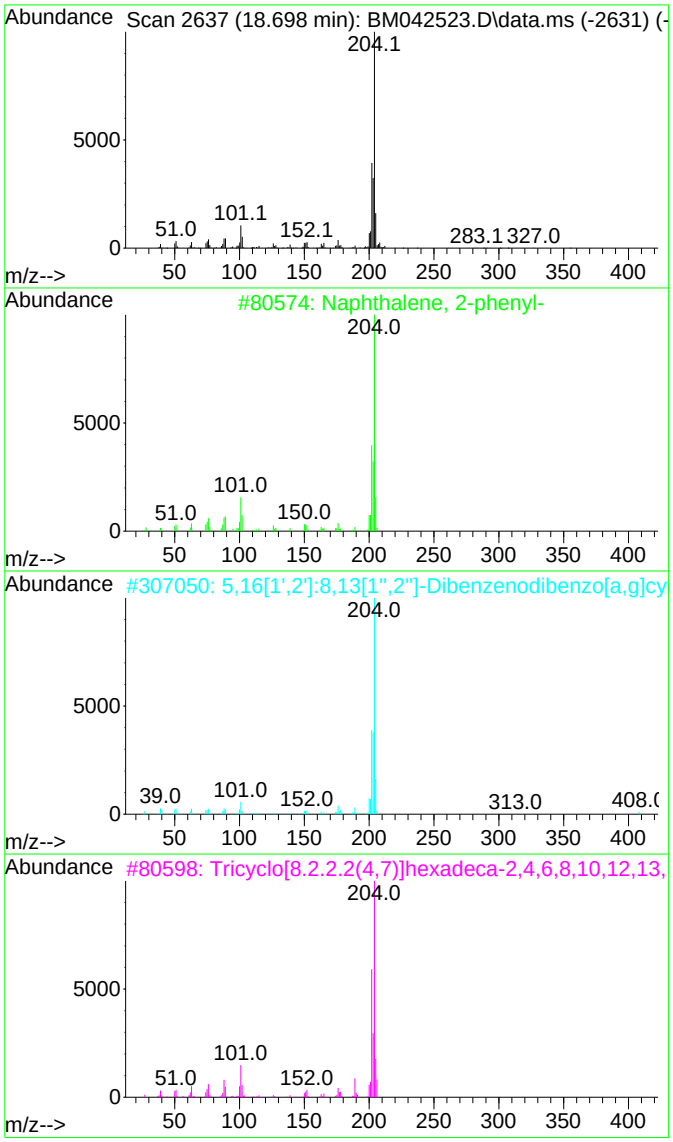
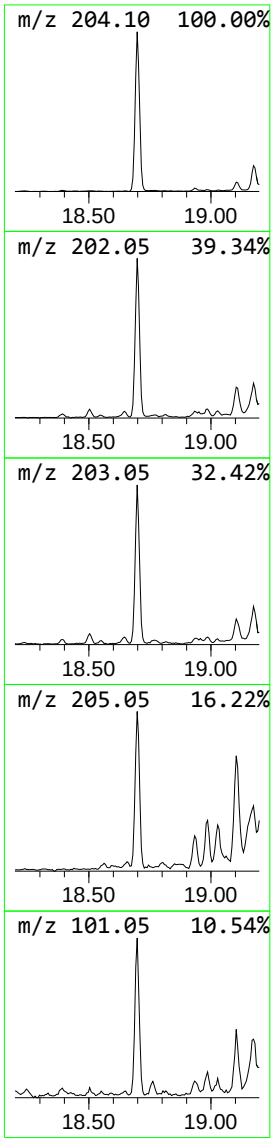
Peak Number 12 Naphthalene, 2-phenyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.698	13.46 ng	585005	Phenanthrene-d10	17.327

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	96
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	91
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	70
4	Benzene, 1,1'-(1-buten-3-yne-1,4...	204	C16H12	013141-45-2	60
5	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	53





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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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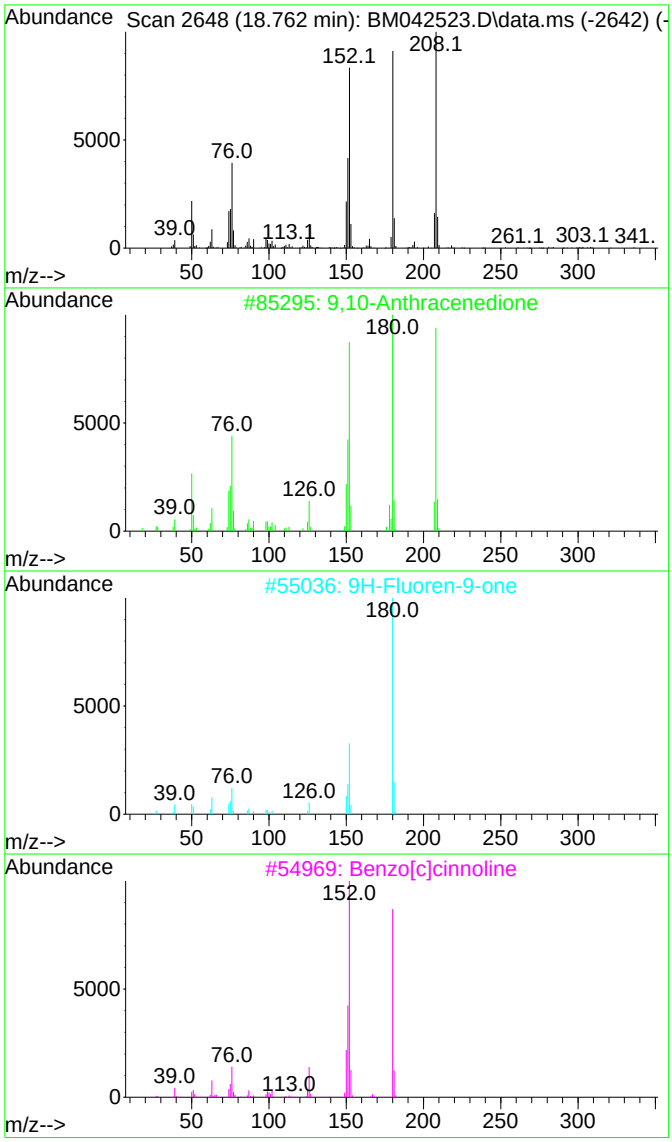
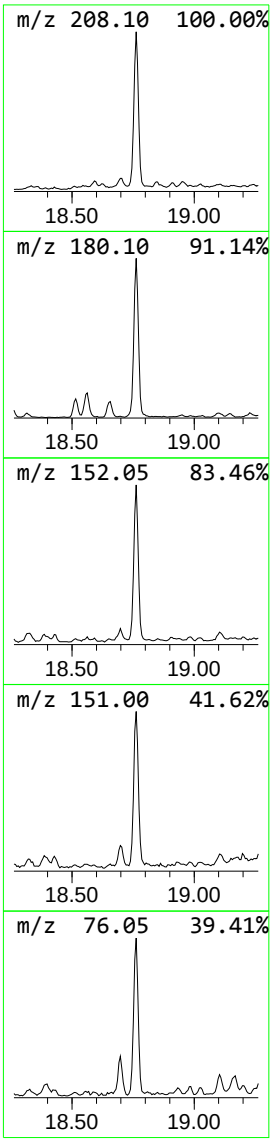
Peak Number 13 9,10-Anthracenedione Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.762	12.48 ng	542185	Phenanthrene-d10	17.327

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	91
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	91
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
5	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	60





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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

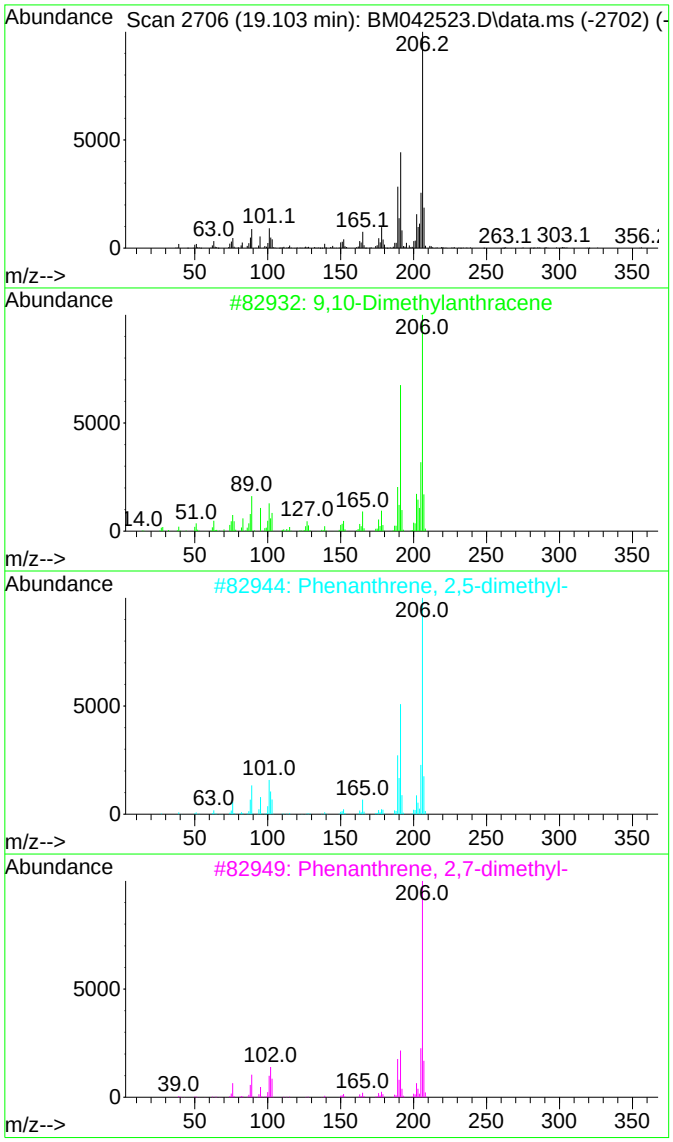
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

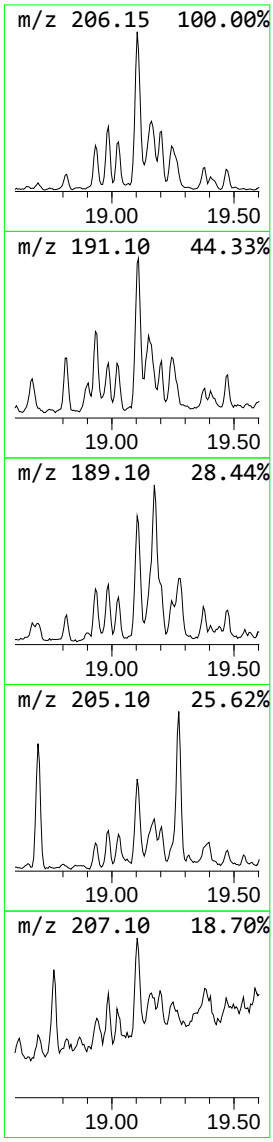
****

Peak Number 14 9,10-Dimethylanthracene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.103	9.41 ng	409074	Phenanthrene-d10	17.327

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	93
4	3,4-Dimethylphenanthrene	206	C16H14	1000452-24-5	90
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	90





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Sample : 04938-13 10X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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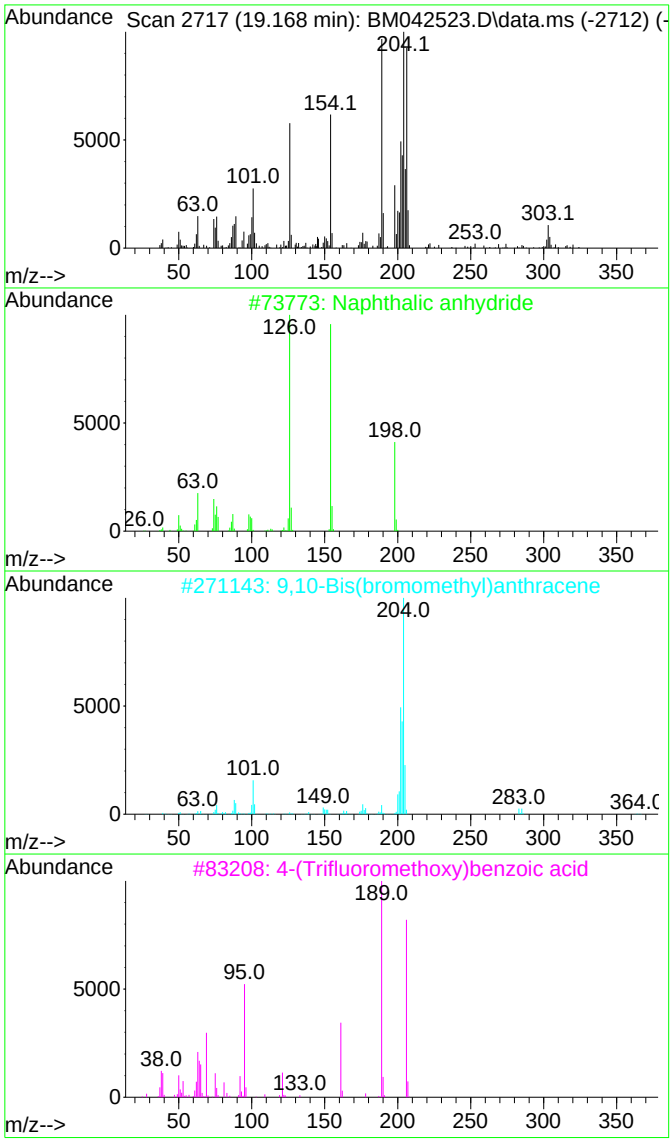
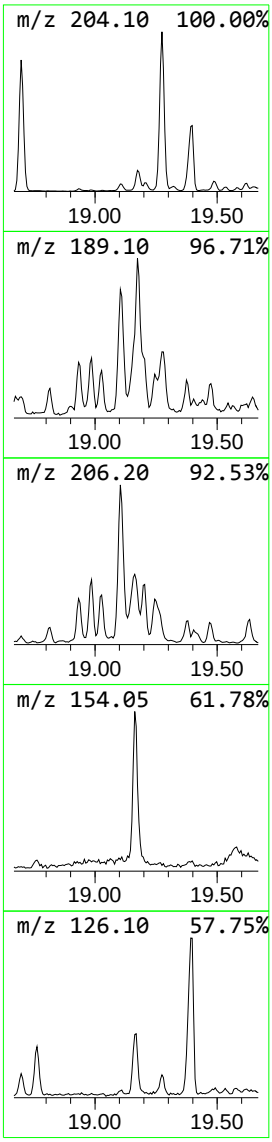
Peak Number 15 Naphthalic anhydride Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.168	5.72 ng	248637	Phenanthrene-d10	17.327

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalic anhydride	198	C12H6O3	000081-84-5	59
2	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	27
3	4-(Trifluoromethoxy)benzoic acid	206	C8H5F3O3	000330-12-1	25
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	25
5	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	25





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ClientSampleId :
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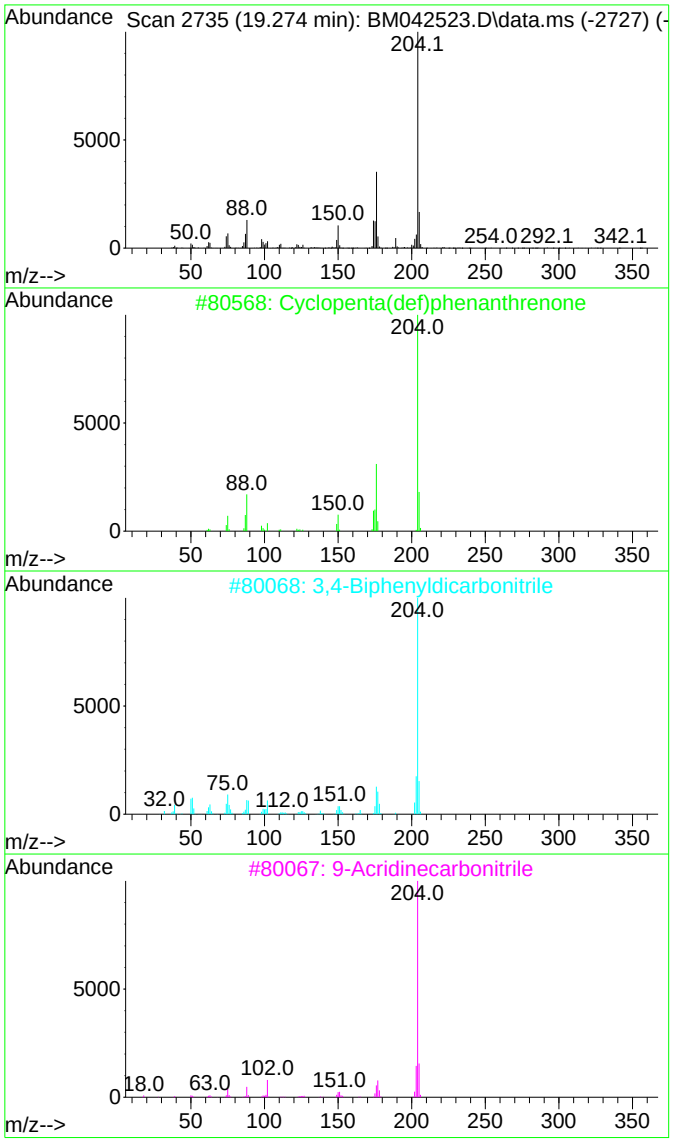
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

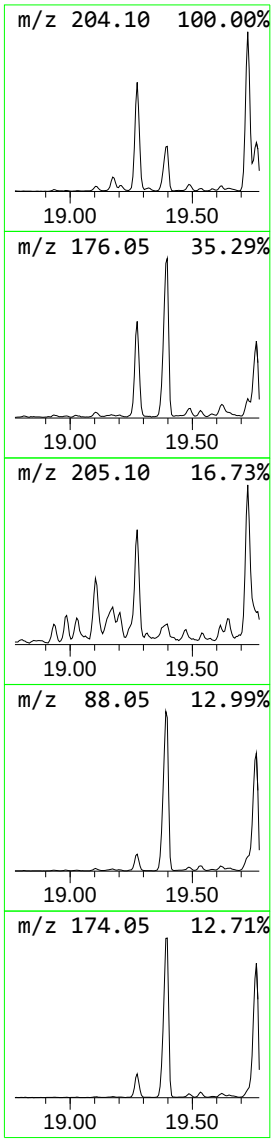
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 16 Cyclopenta(def)phenanthrenone Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.274	18.85 ng	819165	Phenanthrene-d10	17.327

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	72
3	9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	53
4	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	53
5	3-(4-Fluorophenoxy)phenol	204	C12H9FO2	025967-60-6	53





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Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
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ClientSampleId :
A-7(0-2)

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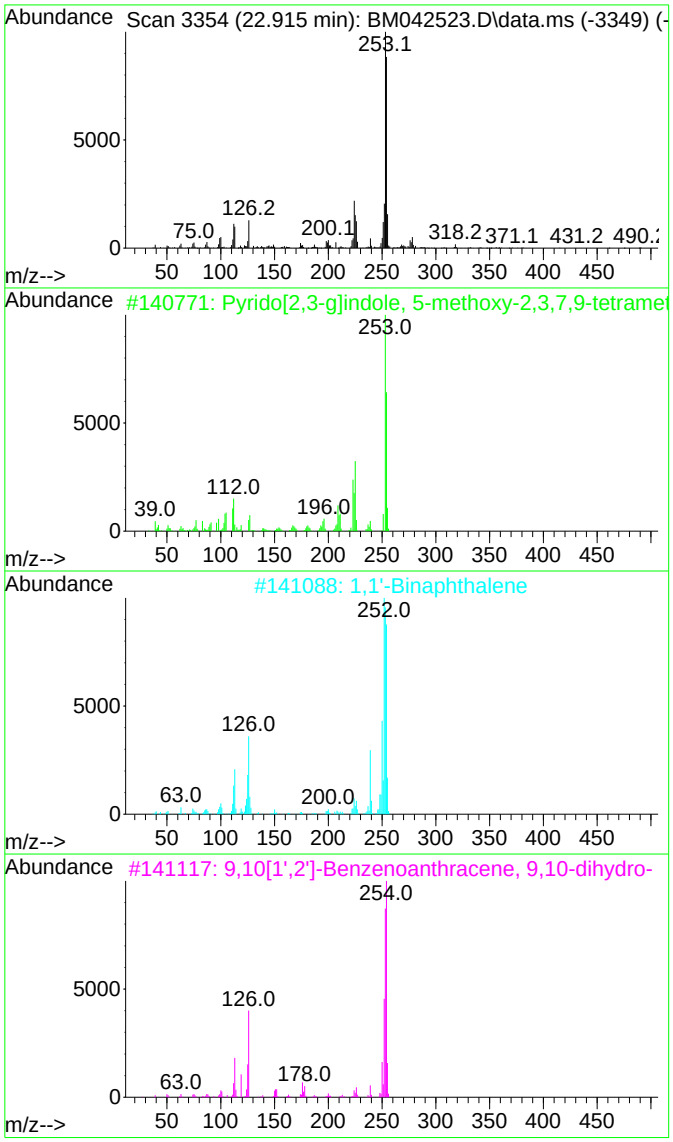
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

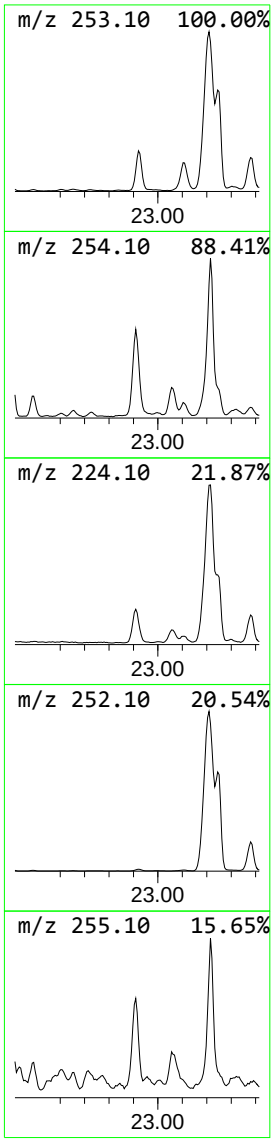
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 17 Pyrido[2,3-g]indole, 5-meth... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.915	5.92 ng	980969	Perylene-d12	23.938

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrido[2,3-g]indole, 5-methoxy-2...	254	C16H18N2O	201991-45-9	72
2	1,1'-Binaphthalene	254	C20H14	000604-53-5	64
3	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	59
4	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	59
5	1,2'-Binaphthalene	254	C20H14	004325-74-0	53





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TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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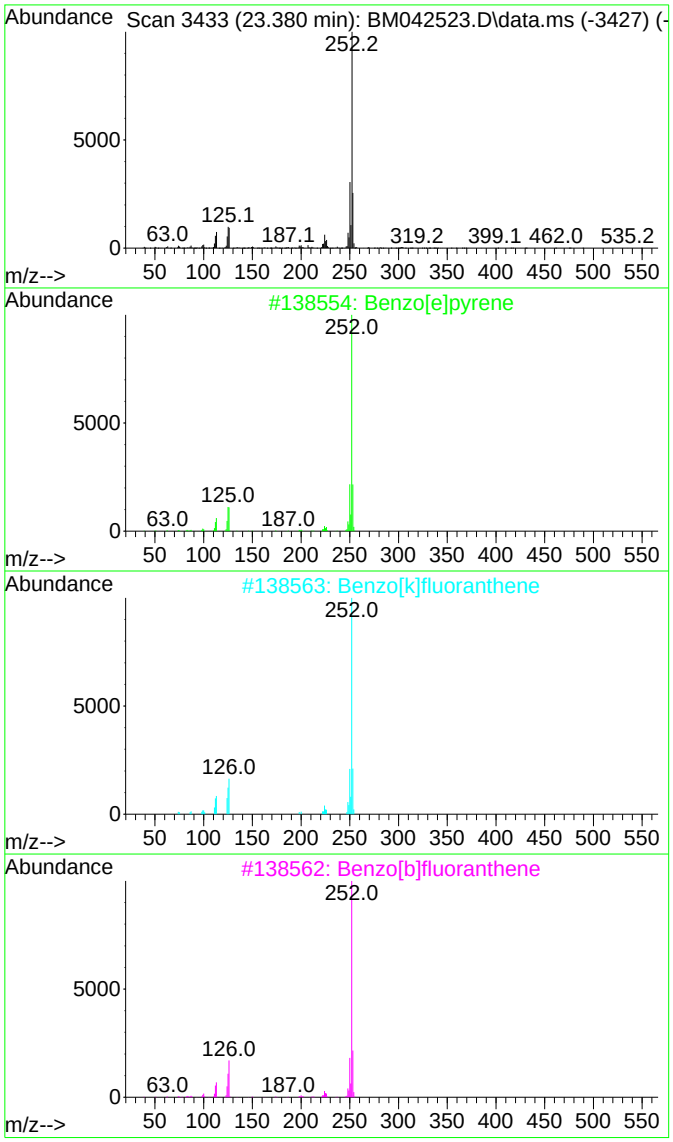
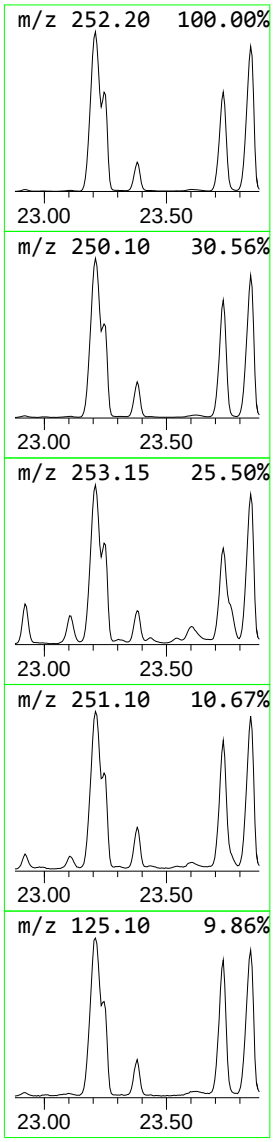
Peak Number 18 Benzo[e]pyrene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.380	10.66 ng	1765260	Perylene-d12	23.938

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
3	Benzo[b]fluoranthene	252	C20H12	000205-99-2	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	90
5	Perylene	252	C20H12	000198-55-0	89





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
Data File : BM042523.D
Acq On : 31 Oct 2023 22:35
Operator : MA/JU
Sample : 04938-13 10X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A-7(0-2)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

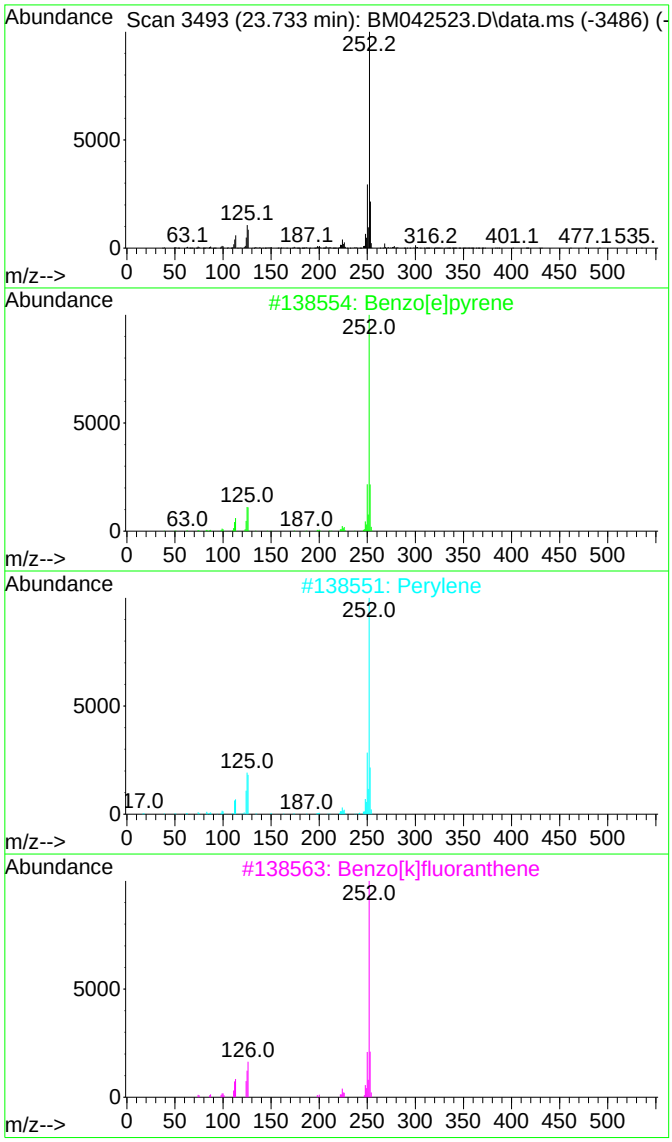
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

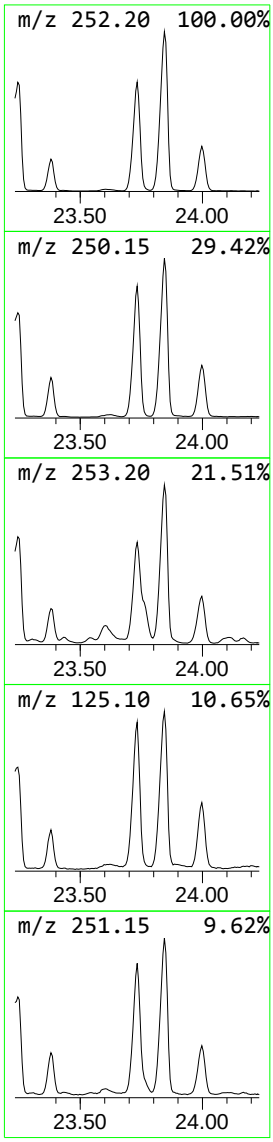
****

Peak Number 19 Perylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.733	39.29 ng	6508910	Perylene-d12	23.938

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Perylene	252	C20H12	000198-55-0	97
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	97
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	95
5	Benzo[b]fluoranthene	252	C20H12	000205-99-2	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
Data File : BM042523.D
Acq On : 31 Oct 2023 22:35
Operator : MA/JU
Sample : 04938-13 10X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A-7(0-2)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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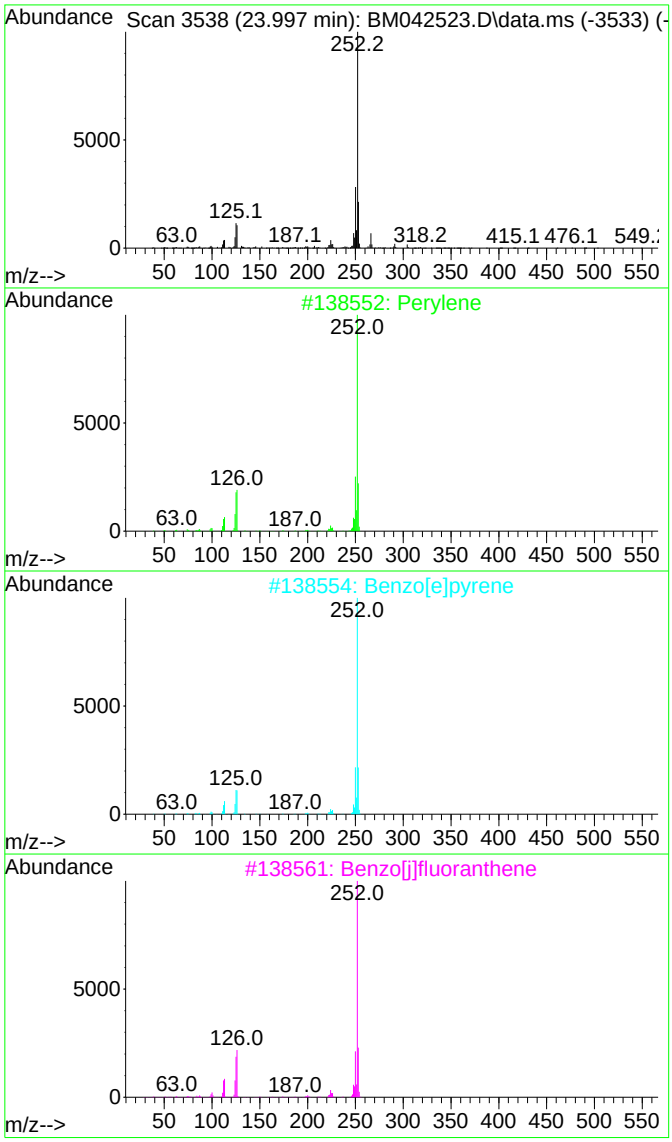
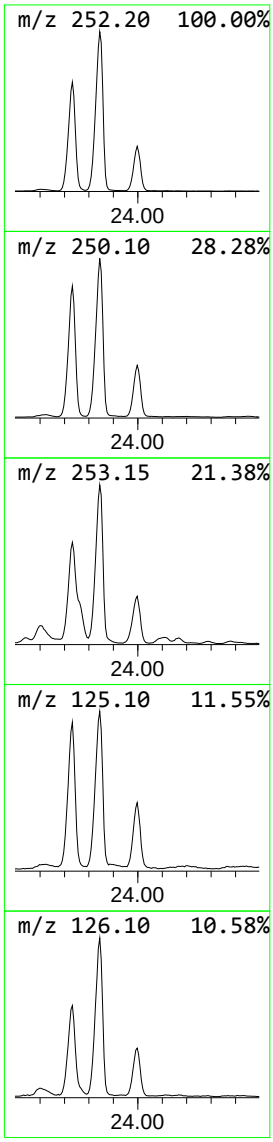
Peak Number 20 Benzo[j]fluoranthene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.997	20.00 ng	3312990	Perylene-d12	23.938

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	96
2	Benzo[e]pyrene	252	C20H12	000192-97-2	95
3	Benzo[j]fluoranthene	252	C20H12	000205-82-3	95
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
5	Benzo[b]fluoranthene	252	C20H12	000205-99-2	94





Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
Data File : BM042523.D
Acq On : 31 Oct 2023 22:35
Operator : MA/JU
Sample : 04938-13 10X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A-7(0-2)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
9H-Fluorene, 2-...	16.615	3.8	ng	164868	4	17.327	869201	20.0
9H-Fluoren-9-one	16.986	4.7	ng	203918	4	17.327	869201	20.0
Dibenzothiophene	17.145	11.3	ng	489915	4	17.327	869201	20.0
Naphthalene, 1-...	17.839	4.7	ng	202834	4	17.327	869201	20.0
2-Methyldibenzo...	17.904	6.0	ng	260028	4	17.327	869201	20.0
4-Methylnaphtho...	18.045	4.5	ng	196930	4	17.327	869201	20.0
Phenanthrene, 2...	18.192	20.0	ng	869056	4	17.327	869201	20.0
Phenanthrene, 1...	18.245	19.0	ng	824905	4	17.327	869201	20.0
Anthracene, 1-m...	18.327	7.3	ng	315528	4	17.327	869201	20.0
4H-Cyclopenta[d...	18.398	37.0	ng	1609150	4	17.327	869201	20.0
1H-Indene, 2-ph...	18.427	9.6	ng	416958	4	17.327	869201	20.0
Naphthalene, 2-...	18.698	13.5	ng	585005	4	17.327	869201	20.0
9,10-Anthracene...	18.762	12.5	ng	542185	4	17.327	869201	20.0
9,10-Dimethylan...	19.103	9.4	ng	409074	4	17.327	869201	20.0
Naphthalic anhy...	19.168	5.7	ng	248637	4	17.327	869201	20.0
Cyclopenta(def)...	19.274	18.9	ng	819165	4	17.327	869201	20.0
Pyrido[2,3-g]in...	22.915	5.9	ng	980969	6	23.938	3312990	20.0
Benzo[e]pyrene	23.380	10.7	ng	1765260	6	23.938	3312990	20.0
Perylene	23.733	39.3	ng	6508910	6	23.938	3312990	20.0
Benzo[j]fluoran...	23.997	20.0	ng	3312990	6	23.938	3312990	20.0