LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022459.D
Acq On : 31 Aug 2019 02:13
Operator : HP/JU
Sample : K4618-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-14-16

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-BM082919.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.140	361	366	378	rVB	257671	383766	1.91%	0.255%
2	6.722	629	635	650	rBV	237851	440077	2.19%	0.292%
3	7.057	686	692	704	rBB	280513	438902	2.18%	0.292%
4	7.828	817	823	834	rBB	179902	284179	1.41%	0.189%
5	8.692	963	970	984	rBV	126706	222573	1.11%	0.148%
6	10.339	1245	1250	1261	rVB	378529	611888	3.04%	0.407%
7	11.963	1520	1526	1535	rBV	184766	285772	1.42%	0.190%
8	12.186	1558	1564	1570	rVB	140553	211784	1.05%	0.141%
9	12.780	1660	1665	1676	rVB	244234	357868	1.78%	0.238%
10	13.898	1844	1855	1865	rVB2	133621	205909	1.02%	0.137%
11	14.180	1893	1903	1908	rVB3	126765	237081	1.18%	0.158%
12	14.245	1908	1914	1923	rBV	694809	986291	4.90%	0.656%
13	14.586	1965	1972	1978	rVB	506028	711300	3.53%	0.473%
14	15.245	2076	2084	2093	rVB	791928	1154829	5.74%	0.768%
15	15.533	2129	2133	2141	rVB	184954	262343	1.30%	0.174%
16	15.692	2148	2160	2166	rBV2	562805	982010	4.88%	0.653%
17	16.251	2243	2255	2259	rBV3	167296	365283	1.81%	0.243%
18	16.674	2322	2327	2335	rBV3	108649	245458	1.22%	0.163%
19	16.768	2337	2343	2351	rVB	385811	552555	2.75%	0.367%
20	16.951	2367	2374	2376	rBV	155514	236563	1.18%	0.157%
21	17.009	2376	2384	2388	rVV	13055009	16787072	83.41%	11.157%
22	17.092	2388	2398	2403	rVV	2205786	2936850	14.59%	1.952%
23	17.151	2405	2408	2416	rVB	154968	267221	1.33%	0.178%
24	17.345	2436	2441	2442	rBV	169628	206721	1.03%	0.137%
25	17.374	2442	2446	2457	rVV	619049	936036	4.65%	0.622%
26	17.821	2517	2522	2527	rBV	593649	906978	4.51%	0.603%
27	17.874	2527	2531	2537	rVV	844492	1144098	5.68%	0.760%
28	17.956	2540	2545	2550	rVB	427172	564516	2.80%	0.375%
29	18.027	2550	2557	2560	rBV2	1105574	1851656	9.20%	1.231%
30	18.056	2560	2562	2571	rVB	403627	511366	2.54%	0.340%
31	18.333	2604	2609	2616	rVB	546348	730684	3.63%	0.486%
32	18.403	2616	2621	2626	rBV	226123	330154	1.64%	0.219%
33	18.750	2672	2680	2685	rBV	293286	541091	2.69%	0.360%
34	19.045	2721	2730	2734	rBV	15170060	20126666	100.00%	13.377%

LSC Area Percent Report

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Sample : K4618-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-14-16

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-BM082919.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	19.133	2741	2745	2751	rVB3	145205	230967	1.15%	0.154%
36	19.268	2762	2768	2772	rBV2	316469	445492	2.21%	0.296%
37	19.415	2780	2793	2798	rBV	12047981	19718658	97.97%	13.106%
38	19.462	2798	2801	2808	rVB3	373777	567180	2.82%	0.377%
39	19.597	2821	2824	2828	rVB	592750	711322	3.53%	0.473%
40	19.650	2829	2833	2838	rVB	359041	525456	2.61%	0.349%
41	19.715	2838	2844	2846	rBV2	380936	654427	3.25%	0.435%
42	19.792	2852	2857	2862	rBV	180838	309378	1.54%	0.206%
43	19.856	2862	2868	2869	rVV3	288503	418249	2.08%	0.278%
44	19.897	2870	2875	2880	rVB	1165357	1673658	8.32%	1.112%
45	19.997	2887	2892	2895	rBV	1205792	1384542	6.88%	0.920%
46	20.056	2895	2902	2905	rVV2	565835	1071763	5.33%	0.712%
47	20.086	2905	2907	2911	rVB	202033	241633	1.20%	0.161%
48	20.192	2921	2925	2928	rBV	325596	398538	1.98%	0.265%
49	20.239	2929	2933	2937	rBV2	329984	408414	2.03%	0.271%
50	20.521	2978	2981	2985	rBV2	171002	233781	1.16%	0.155%
51	20.603	2991	2995	3000	rBV4	157523	299270	1.49%	0.199%
52	20.656	3000	3004	3008	rVB3	190445	281553	1.40%	0.187%
53	20.815	3027	3031	3034	rBV	416157	558429	2.77%	0.371%
54	20.850	3034	3037	3041	rVV	671475	879317	4.37%	0.584%
55	20.892	3041	3044	3053	rVB3	484813	976001	4.85%	0.649%
56	21.056	3064	3072	3078	rBV	206623	602900	3.00%	0.401%
57	21.162	3081	3090	3095	rBV	6428208	10197171	50.66%	6.777%
58	21.215	3095	3099	3103	rVB	5489213	6547528	32.53%	4.352%
59	21.327	3114	3118	3122	rBV	1193617	1374175	6.83%	0.913%
60	21.450	3135	3139	3141	rVV	287181	339953	1.69%	0.226%
61	21.497	3141	3147	3150	rVB3	414343	661075	3.28%	0.439%
62	21.656	3171	3174	3176	rBV	180160	225723	1.12%	0.150%
63	21.715	3180	3184	3188	rVV	850749	1180160	5.86%	0.784%
64	21.762	3189	3192	3196	rVV	338129	434613	2.16%	0.289%
65	21.827	3199	3203	3206	rVV3	242890	379970	1.89%	0.253%
66	21.868	3206	3210	3213	rVV3	348378	501469	2.49%	0.333%
67	21.909	3213	3217	3219	rVV	382591	550891	2.74%	0.366%
68	21.939	3219	3222	3228	rVV2	421070	654888	3.25%	0.435%
69	21.997	3228	3232	3237	rVB4	249282	440151	2.19%	0.293%
70	22.203	3263	3267	3271	rBV	363755	577470	2.87%	0.384%
71	22.474	3308	3313	3322	rBV4	254060	492769	2.45%	0.328%

LSC Area Percent Report

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Misc :
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Instrument : BNA_M
ClientSampleId : SB-4-14-16

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
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Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	22.727	3347	3356	3360	rBV	3979912	8482835	42.15%	5.638%
73	22.762	3360	3362	3366	rVV	2210734	2330562	11.58%	1.549%
74	22.815	3367	3371	3376	rVV4	166745	290349	1.44%	0.193%
75	22.880	3377	3382	3387	rVB	658792	977324	4.86%	0.650%
76	23.003	3399	3403	3405	rBV2	167845	268911	1.34%	0.179%
77	23.185	3427	3434	3443	rVB	2250445	3995504	19.85%	2.656%
78	23.285	3443	3451	3459	rBV	4114018	7365384	36.60%	4.895%
79	23.368	3461	3465	3468	rVV	258317	445585	2.21%	0.296%
80	23.415	3468	3473	3479	rVB2	1014984	1796932	8.93%	1.194%
81	24.203	3602	3607	3619	rVB	197736	527142	2.62%	0.350%
82	25.568	3828	3839	3847	rVB2	1483100	3999108	19.87%	2.658%
83	25.797	3872	3878	3885	rVB	257364	637983	3.17%	0.424%
84	25.885	3888	3893	3899	rVV	153046	365635	1.82%	0.243%
85	26.250	3943	3955	3966	rVB	1111885	3526264	17.52%	2.344%
86	26.591	4007	4013	4027	rVB	427307	1283312	6.38%	0.853%

Sum of corrected areas: 150459304

LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
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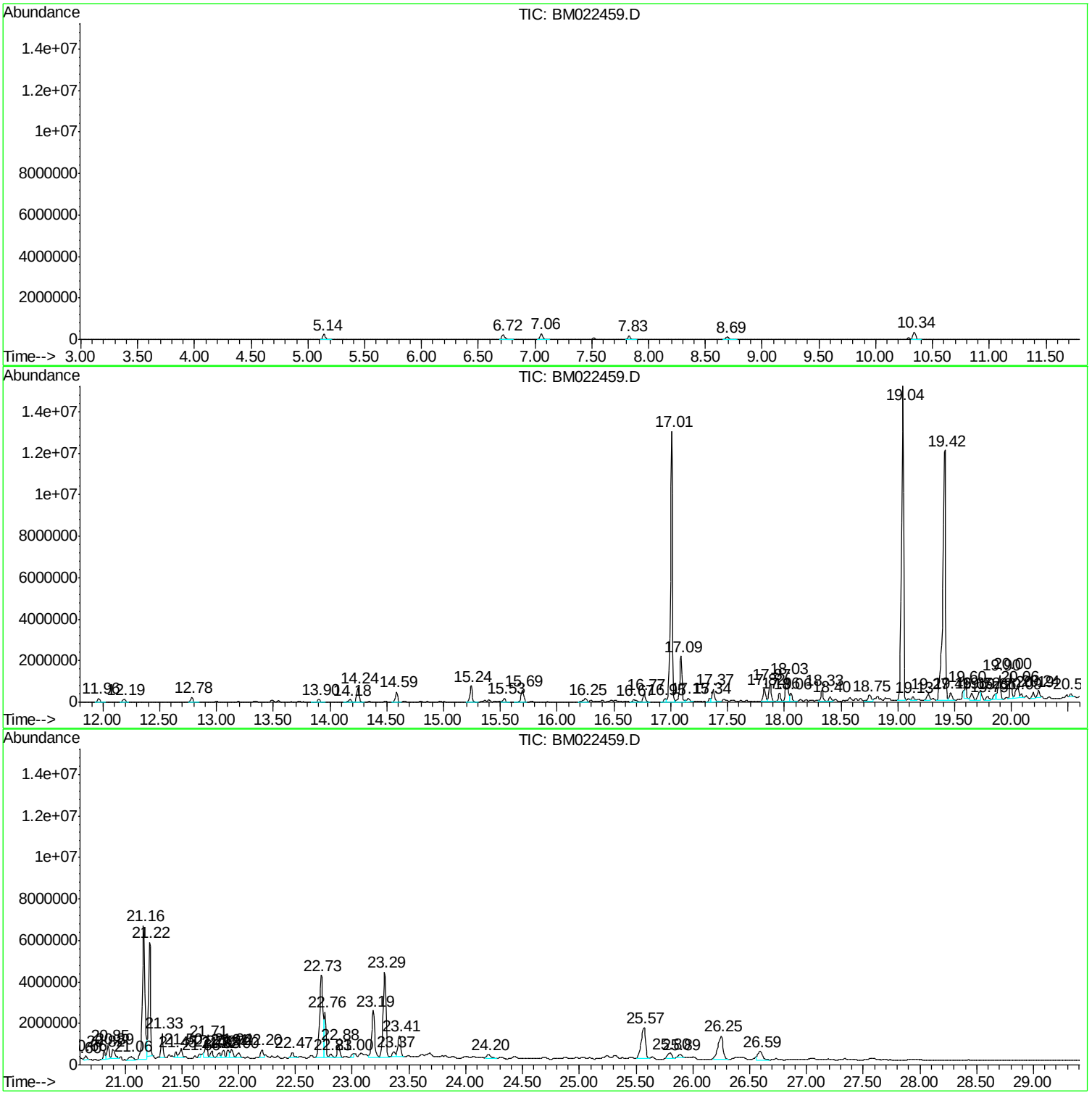
Operator : HP/JU
Sample : K4618-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-14-16

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022459.D
Acq On : 31 Aug 2019 02:13
Operator : HP/JU
Sample : K4618-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-14-16

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

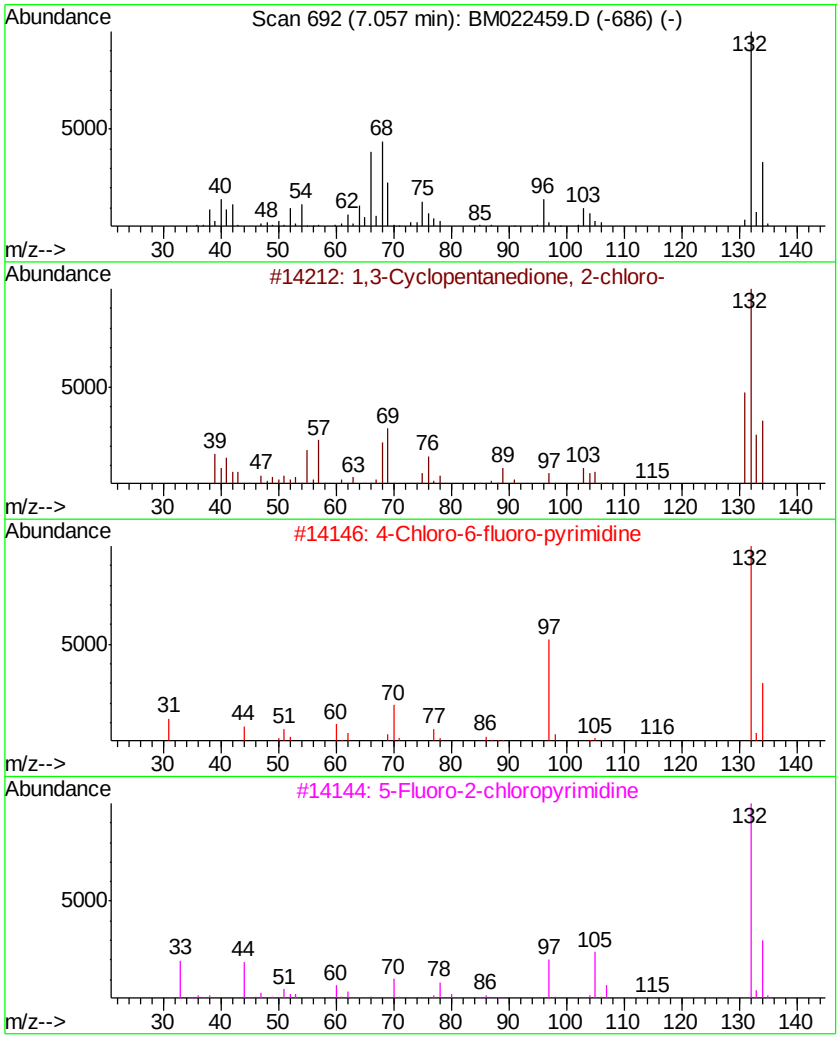
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

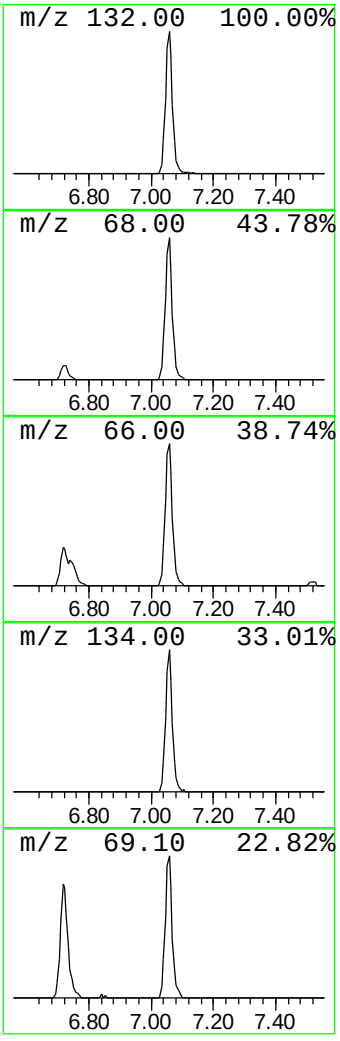
****

Peak Number 1 unknown7.06 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.06	30.89 ng	438902	1,4-Dichlorobenzene-d4	7.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Cyclopentanedione, 2-chloro-	132	C5H5ClO2	014203-19-1	22
2	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	14
3	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	14
4	3H-1,2-Dithiol-3-one, 5-methyl-	132	C4H4OS2	003620-08-4	10
5	1,3,4-Thiadiazole-2(3H)-thione, ...	132	C3H4N2S2	029490-19-5	10





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022459.D
Acq On : 31 Aug 2019 02:13
Operator : HP/JU
Sample : K4618-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-14-16

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

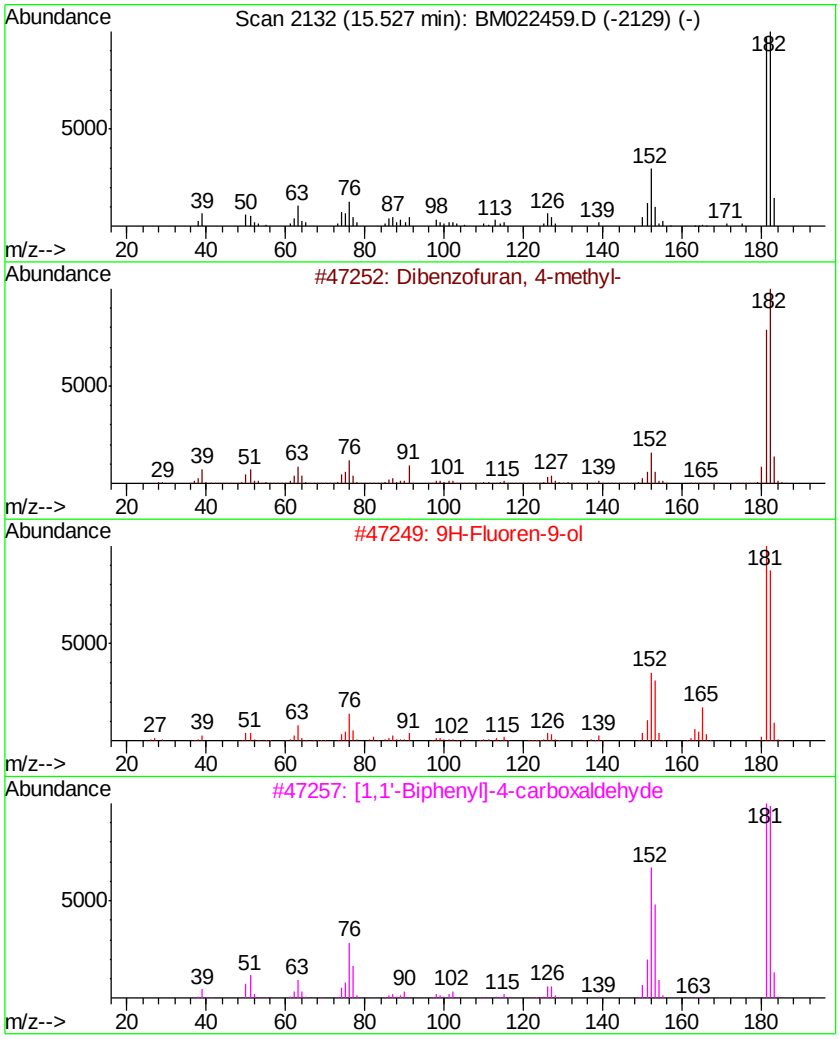
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

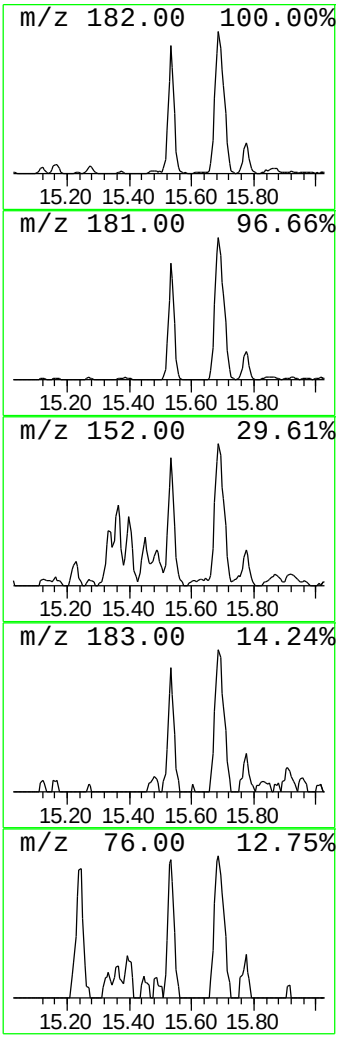
****

Peak Number 2 Dibenzofuran, 4-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.53	22.13 ng	262343	Acenaphthene-d10	14.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	90
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	87
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	86
4	Pyrido[2,3-b]indole, 6-methyl-	182	C12H10N2	108349-67-3	72
5	3-(2-Naphthyl)acrylaldehyde	182	C13H10O	020884-05-3	72





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Instrument : BNA_M
ClientSampleId : SB-4-14-16

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

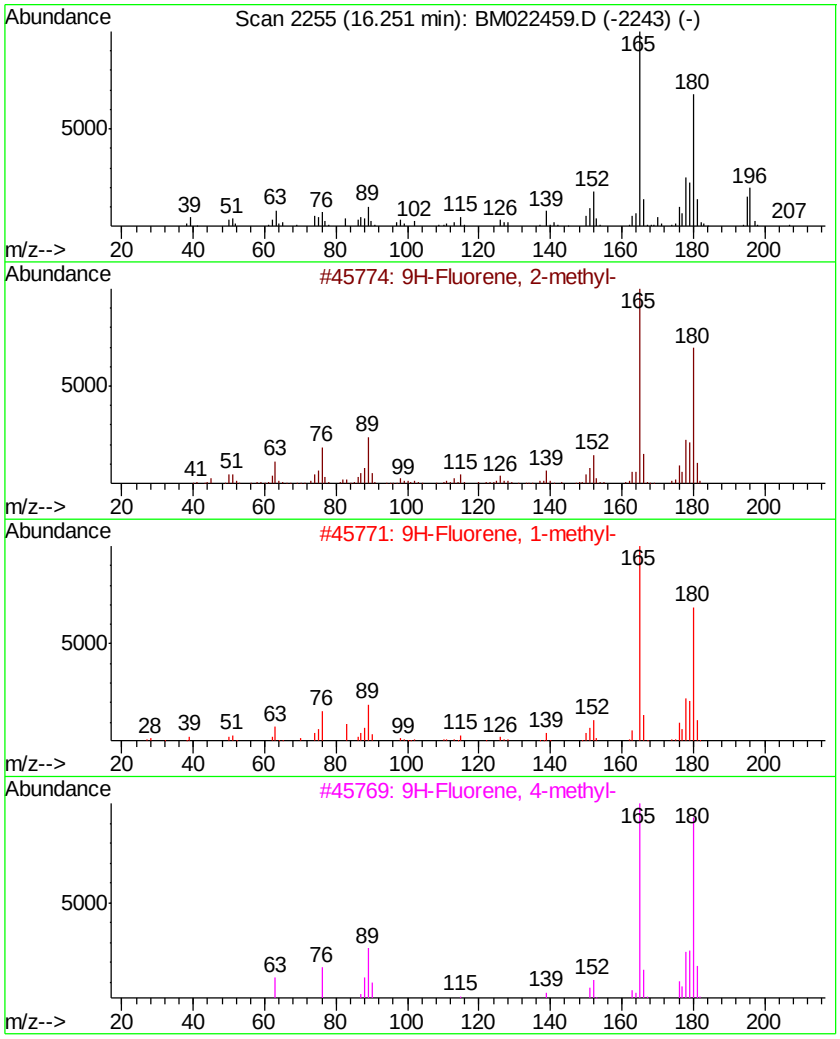
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

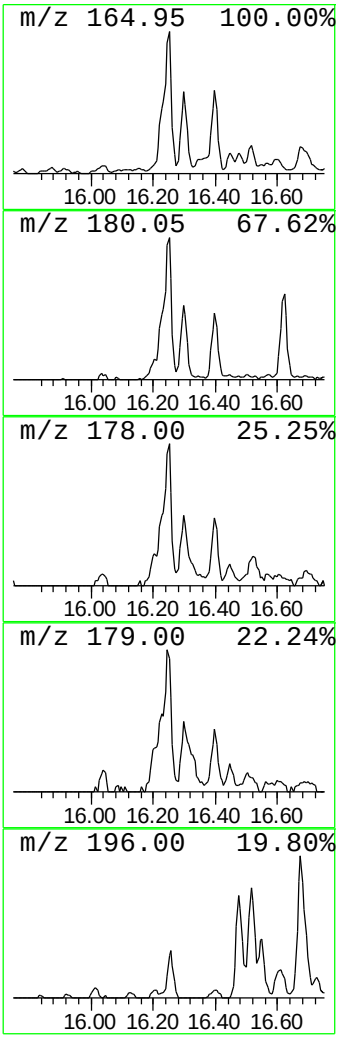
****

Peak Number 3 9H-Fluorene, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.25	30.88 ng	365283	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	95
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	93
3	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	86
4	Pentacyclo[6.4.0.0(1,8).1(2,7)]t...	180	C14H12	086120-84-5	78
5	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	78





Library Search Compound Report

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
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TIC Library : C:\DATABASE\NIST11.L
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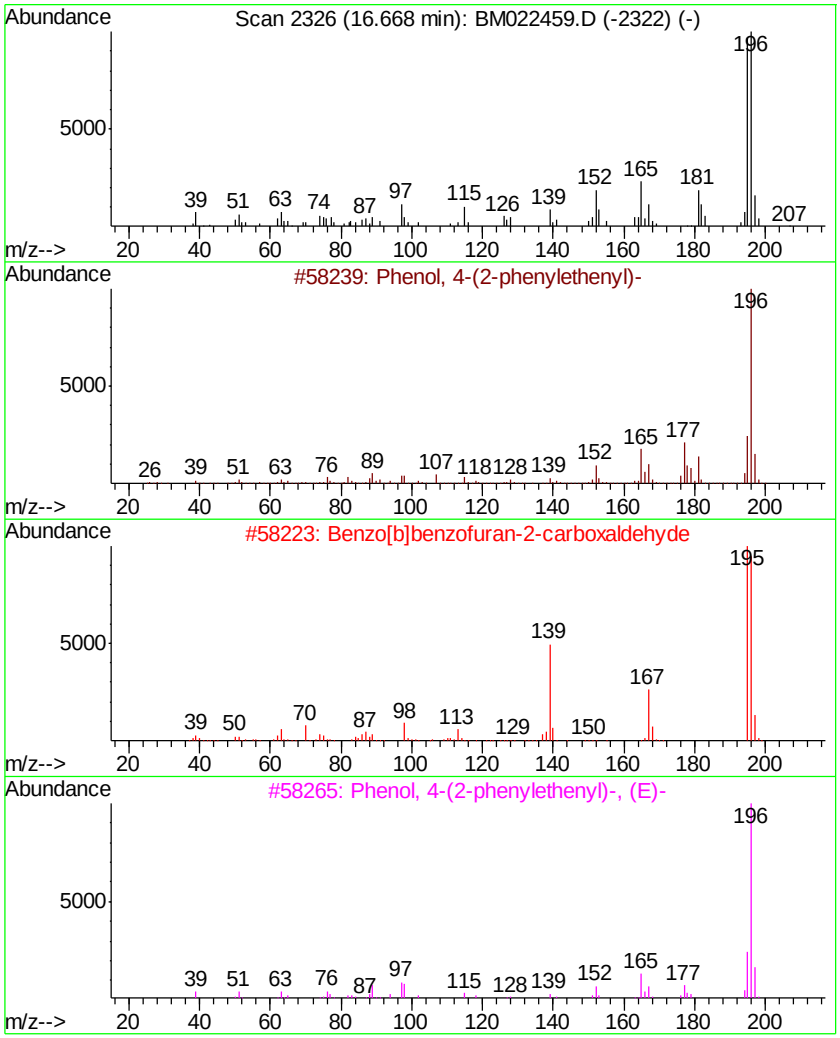
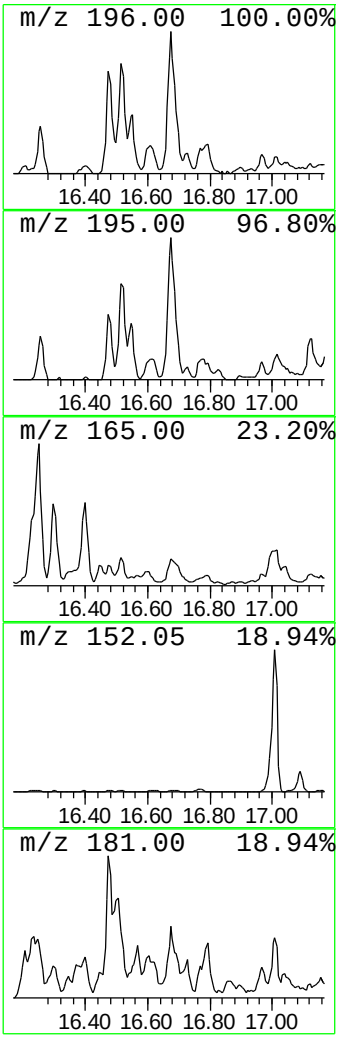
****

Peak Number 4 Phenol, 4-(2-phenylethenyl)- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.67	20.75 ng	245458	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 4-(2-phenylethenyl)-	196	C14H12O	003839-46-1	58
2	Benzo[b]benzofuran-2-carboxaldehyde	196	C13H8O2	1000351-56-0	58
3	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	53
4	Phenol, 3-(2-phenylethenyl)-, (E)-	196	C14H12O	017861-18-6	49
5	5,7-Dimethylpyrimido-[3,4-a]-indole	196	C13H12N2	038349-21-2	47





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Misc :
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Instrument : BNA_M
ClientSampleId : SB-4-14-16

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

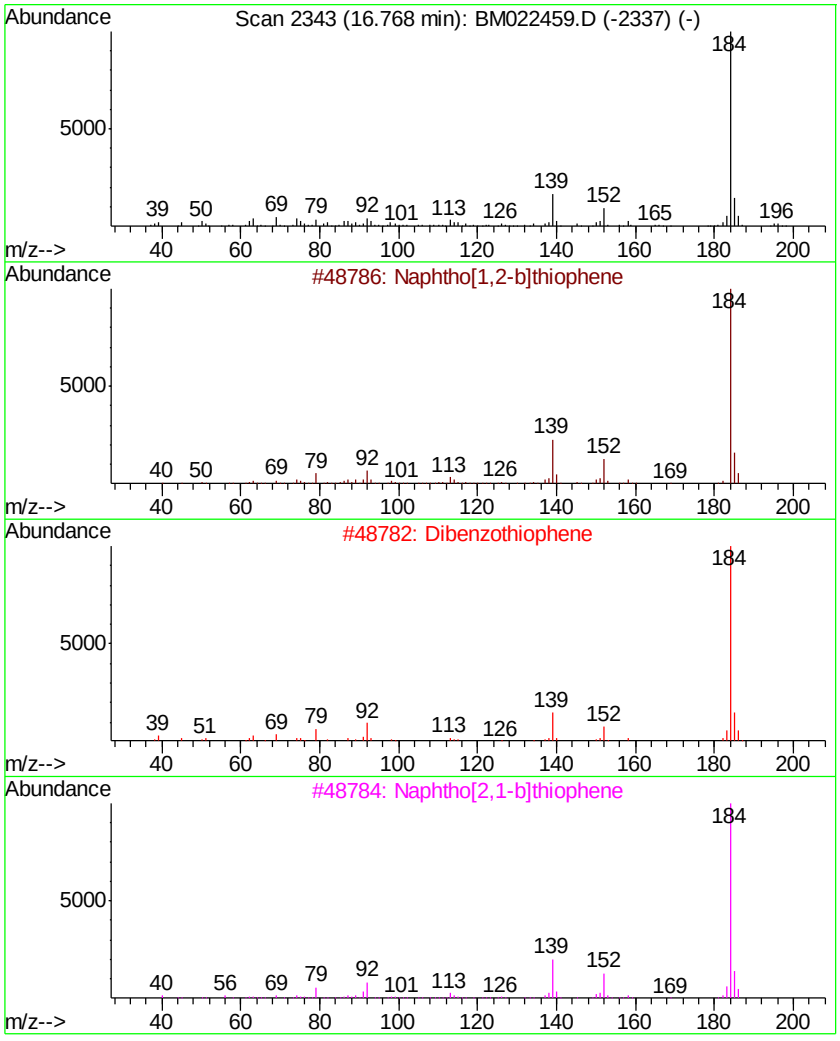
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

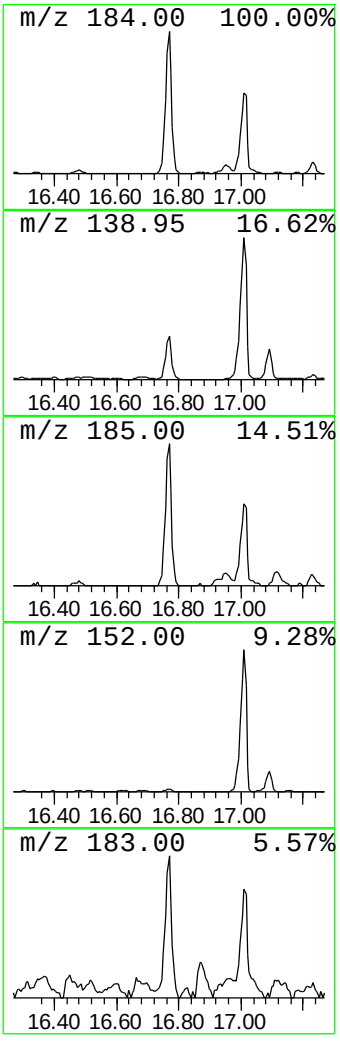
****

Peak Number 5 Naphtho[1,2-b]thiophene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.77	46.72 ng	552555	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	93
2	Dibenzothiophene	184	C12H8S	000132-65-0	93
3	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	93
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90





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Misc :
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Instrument : BNA_M
ClientSampleId : SB-4-14-16

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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TIC Integration Parameters: LSCINT.P

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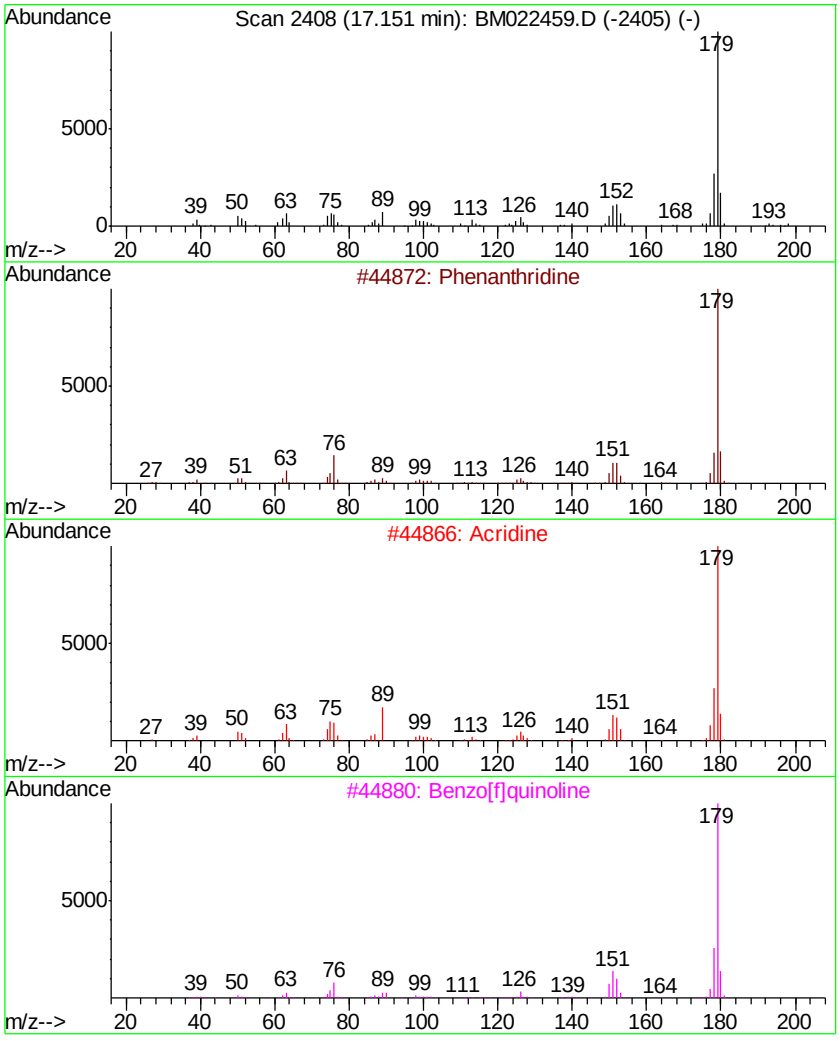
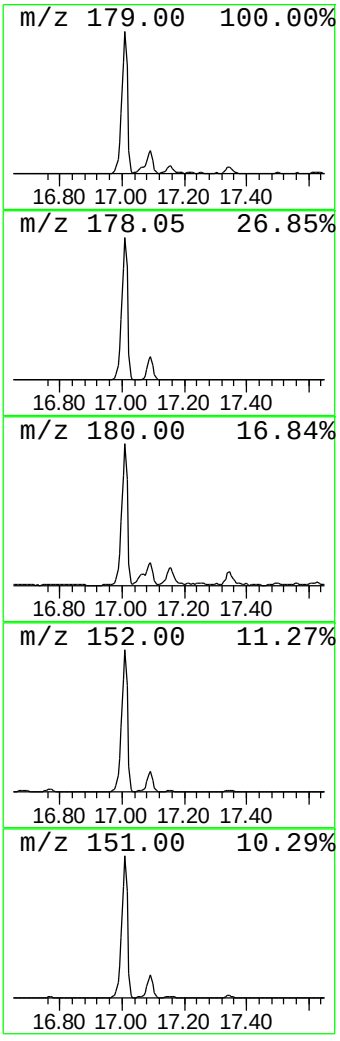
Peak Number 6 Phenanthridine Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.15	22.59 ng	267221	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthridine	179	C13H9N	000229-87-8	93
2	Acridine	179	C13H9N	000260-94-6	91
3	Benzo[f]quinoline	179	C13H9N	000085-02-9	91
4	Benzo[h]quinoline	179	C13H9N	000230-27-3	91
5	Benzo[f]isoquinoline	179	C13H9N	000229-67-4	90





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Sample : K4618-03
Misc :
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ClientSampleId : SB-4-14-16

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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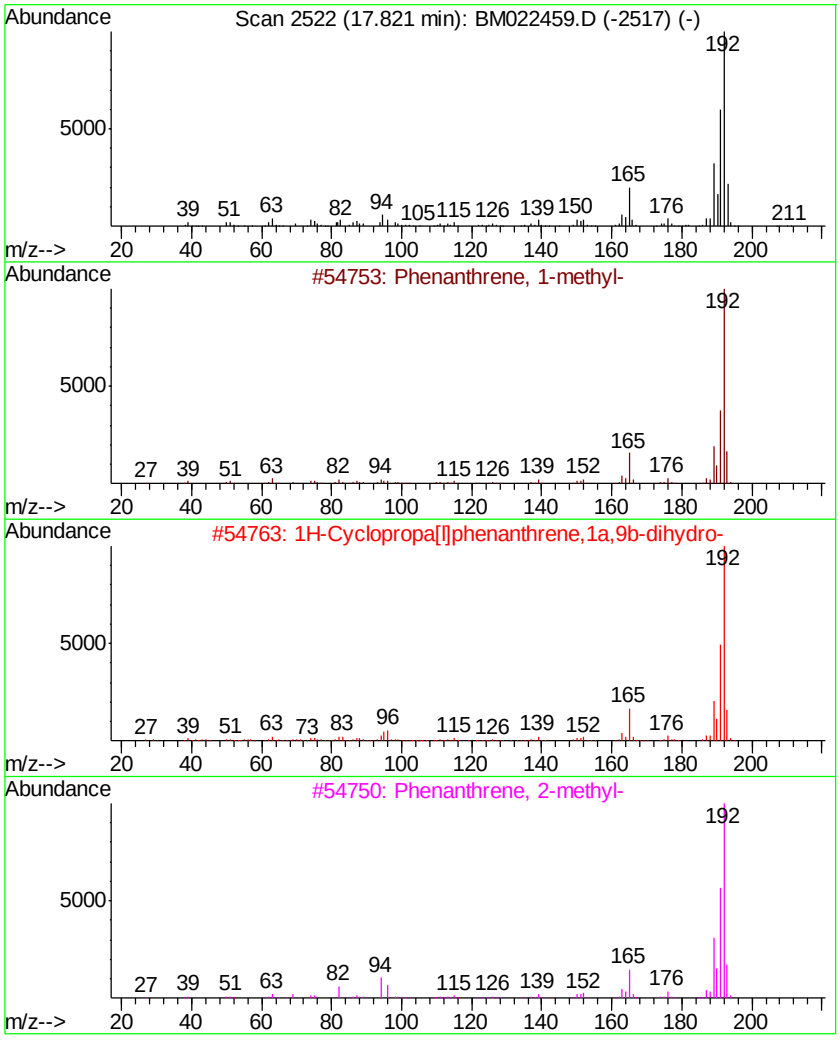
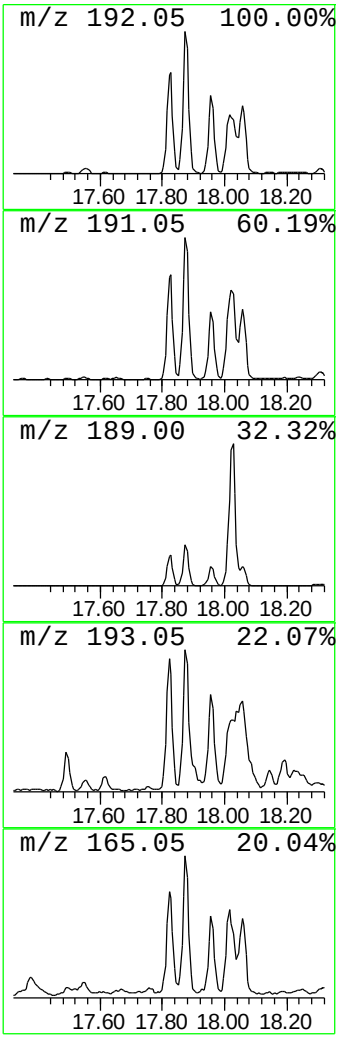
Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.82	76.68 ng	906978	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	93
5	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	93





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Instrument : BNA_M
ClientSampleId : SB-4-14-16

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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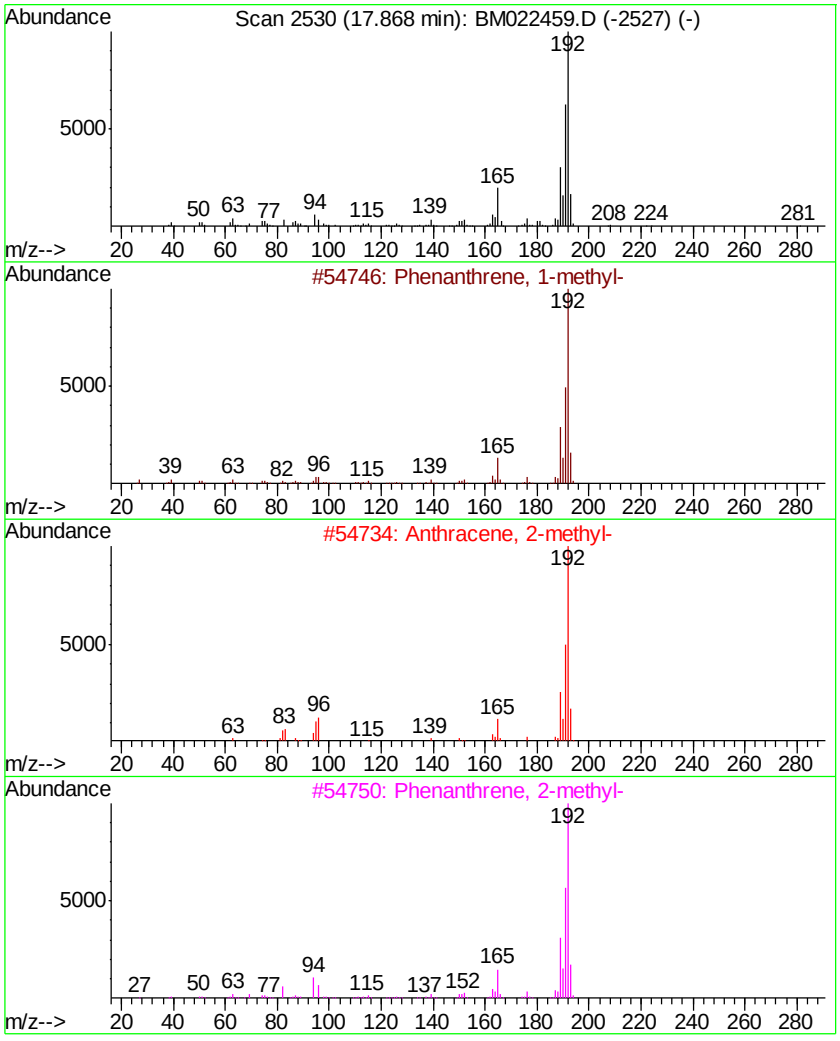
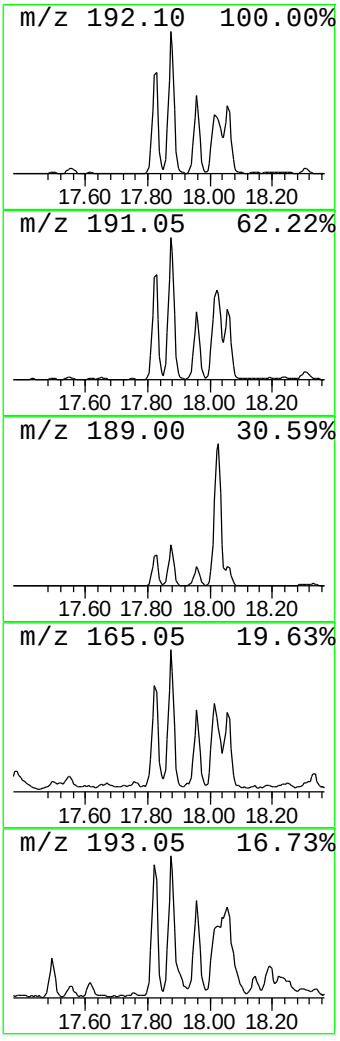
Peak Number 8 Anthracene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.87	96.73 ng	1144100	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	91





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

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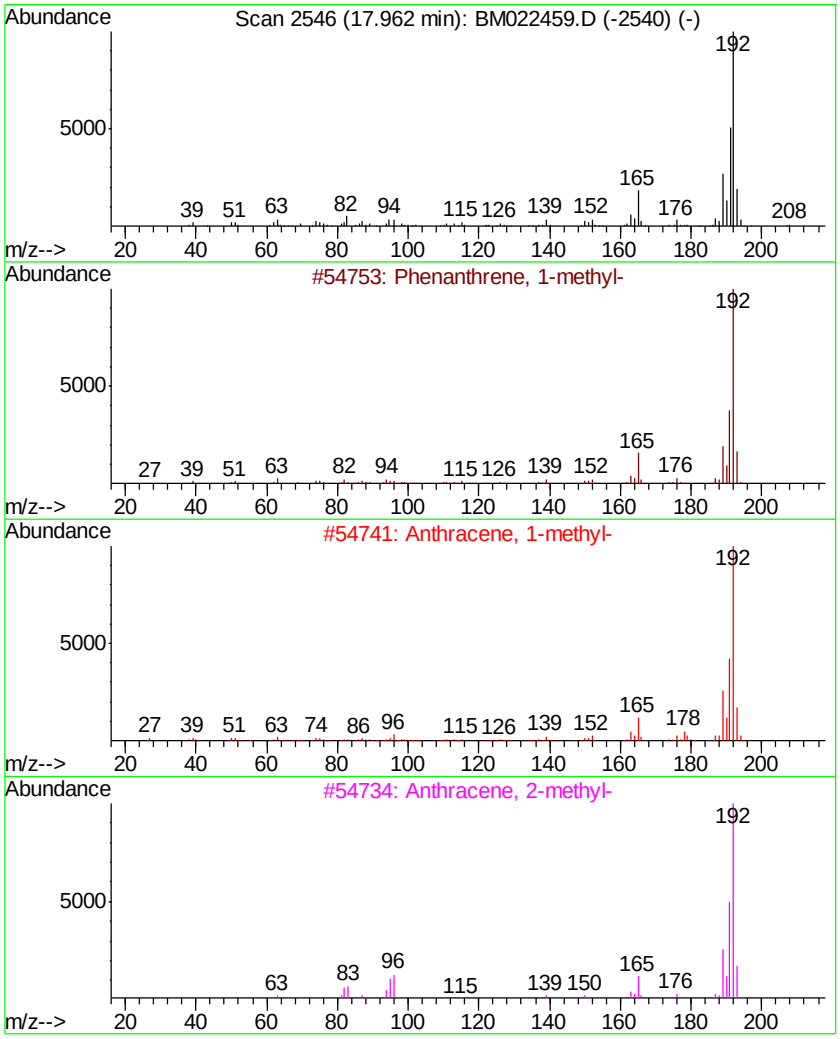
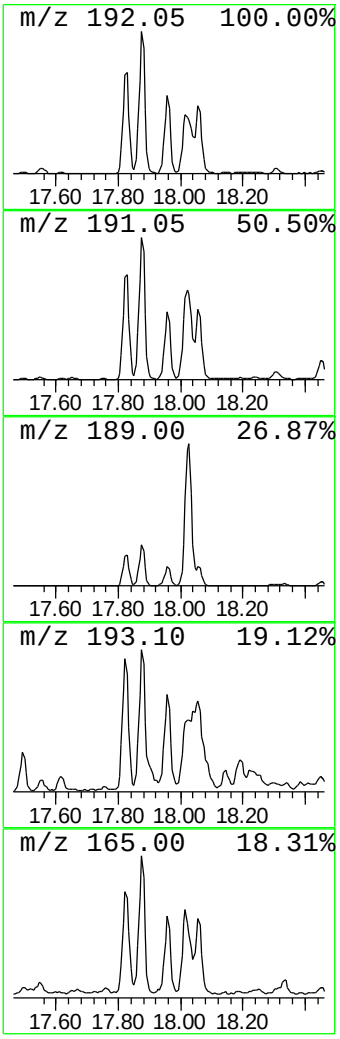
Peak Number 9 Anthracene, 1-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.96	47.73 ng	564516	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93





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ClientSampleId : SB-4-14-16

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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TIC Integration Parameters: LSCINT.P

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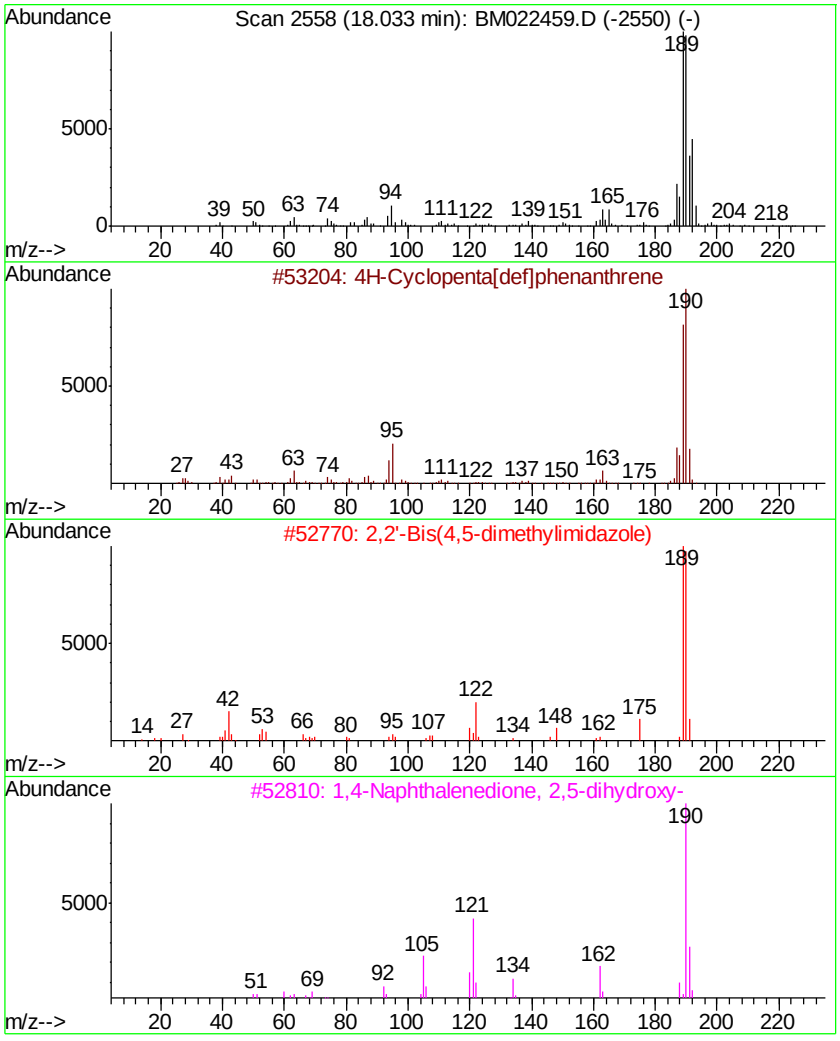
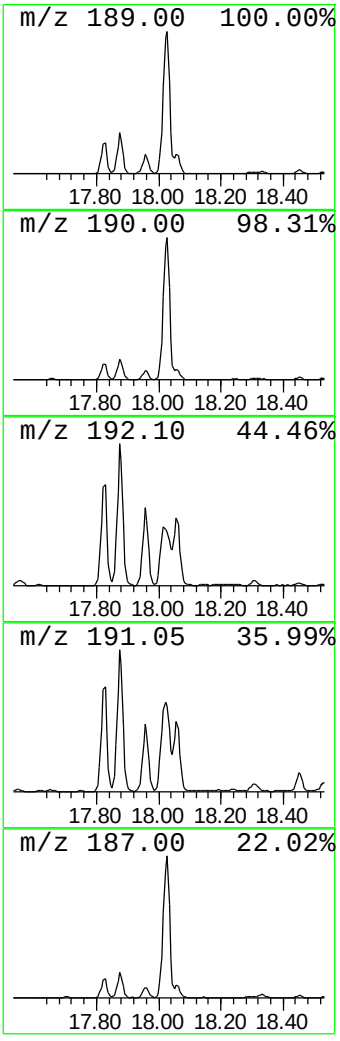
Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.03	156.55 ng	1851660	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	33
3	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	25
4	2-Naphthaldehyde, 1,2,3,4-tetrah...	190	C12H14O2	002472-02-8	18
5	1-(Phenylethynyl)-1H-1,2,3-benzo...	219	C14H9N3	209912-23-2	12





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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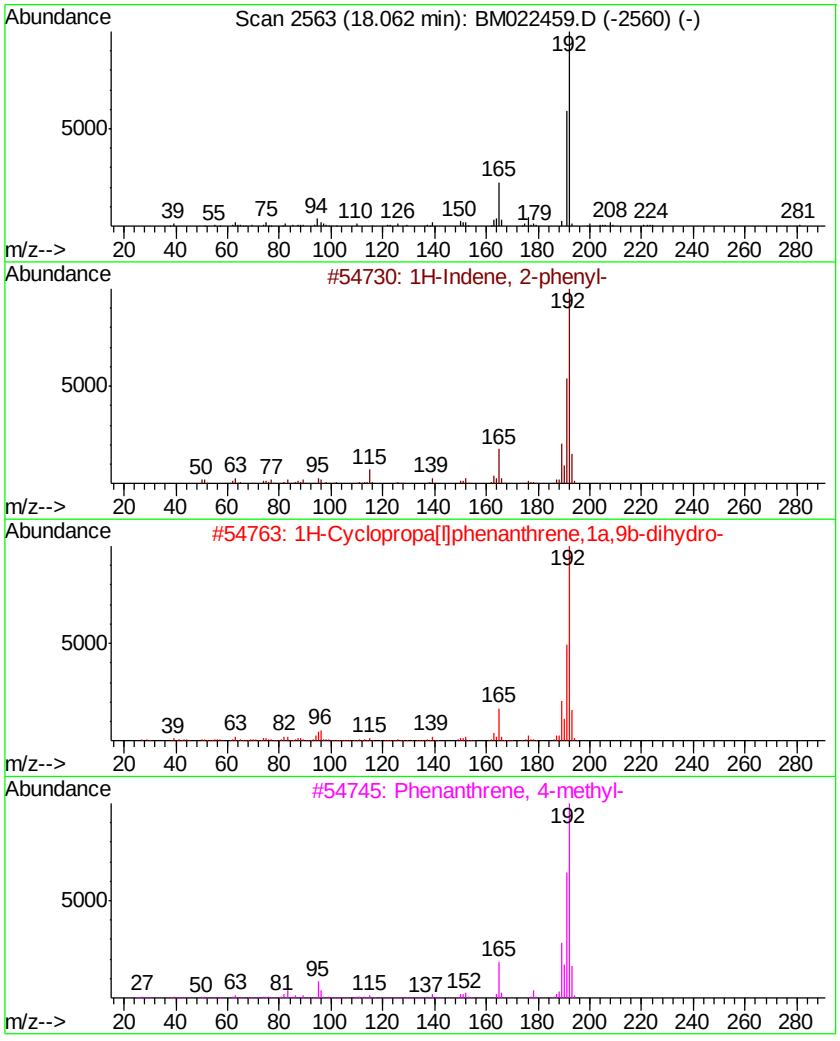
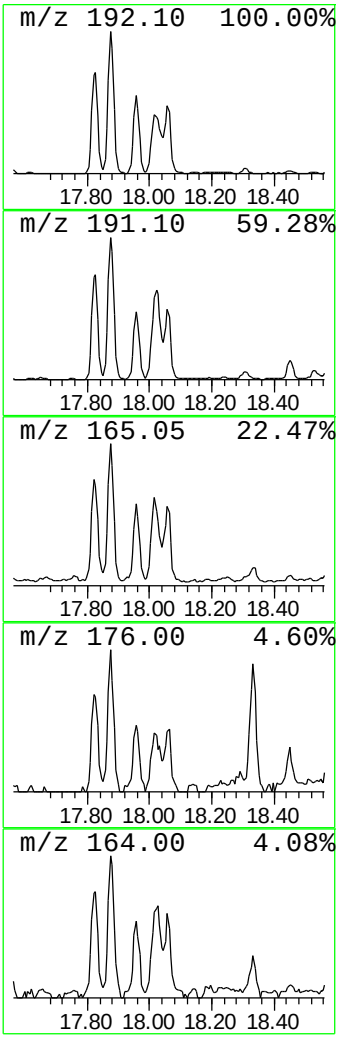
Peak Number 11 1H-Indene, 2-phenyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.06	43.23 ng	511366	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	80
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	80
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	80
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	74
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	74





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

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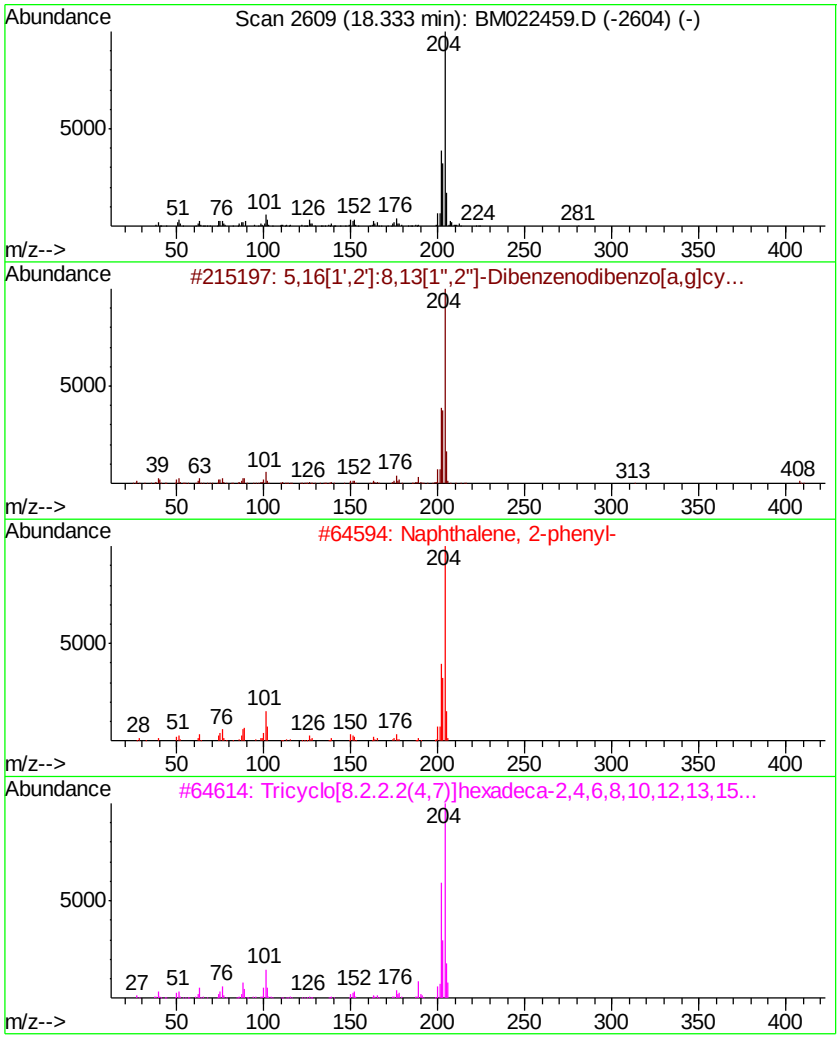
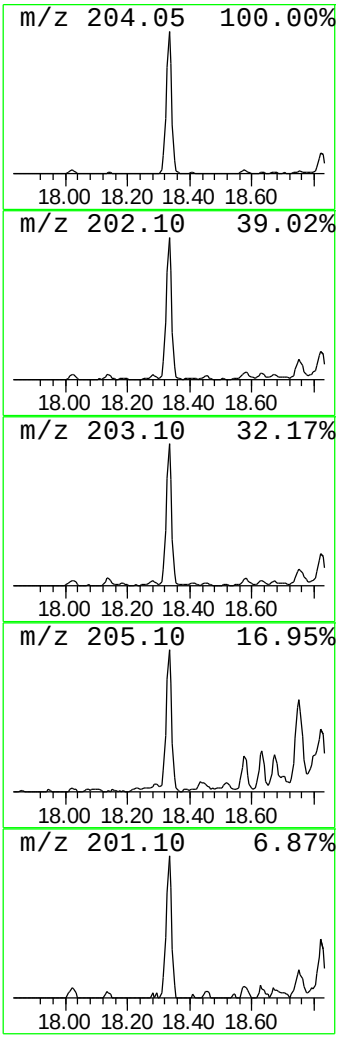
Peak Number 12 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.33	61.78 ng	730684	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	90
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	53
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	49
5	6-Cyanophenanthridine	204	C14H8N2	002176-28-5	49





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

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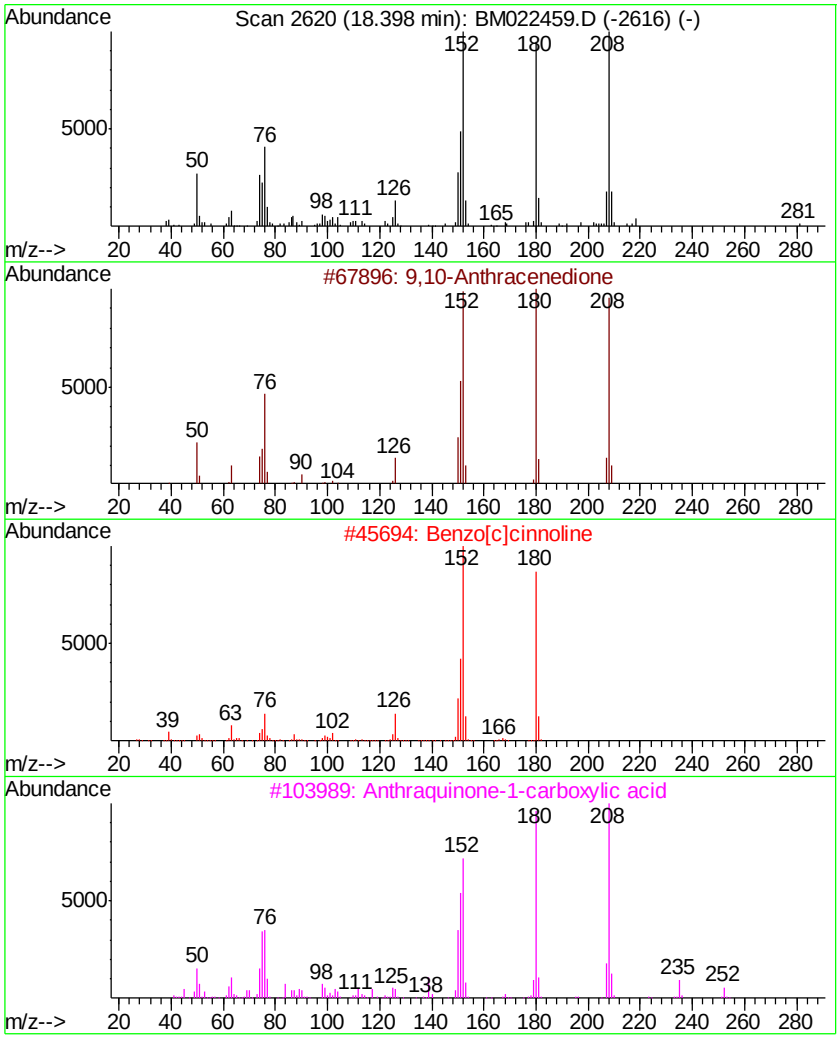
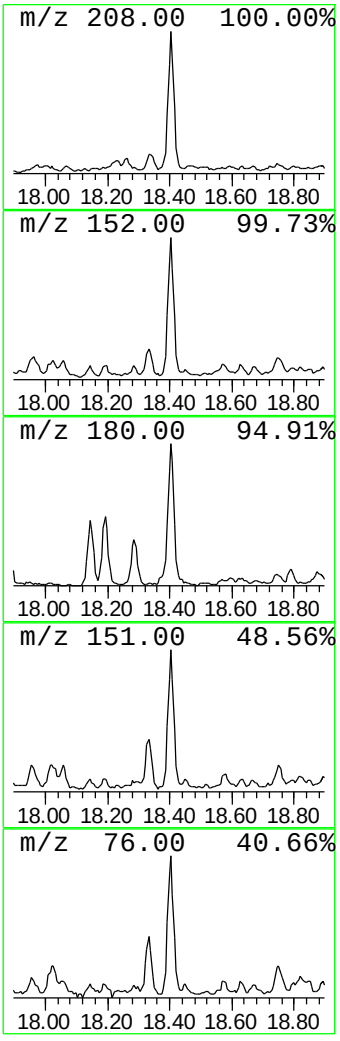
Peak Number 13 9,10-Anthracenedione Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.40	27.91 ng	330154	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	86
3	Anthraquinone-1-carboxylic acid	252	C15H8O4	000602-69-7	83
4	1,4-Anthracenedione	208	C14H8O2	000635-12-1	58
5	5,6-Dimethyl-1,10-phenanthroline	208	C14H12N2	003002-81-1	58





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

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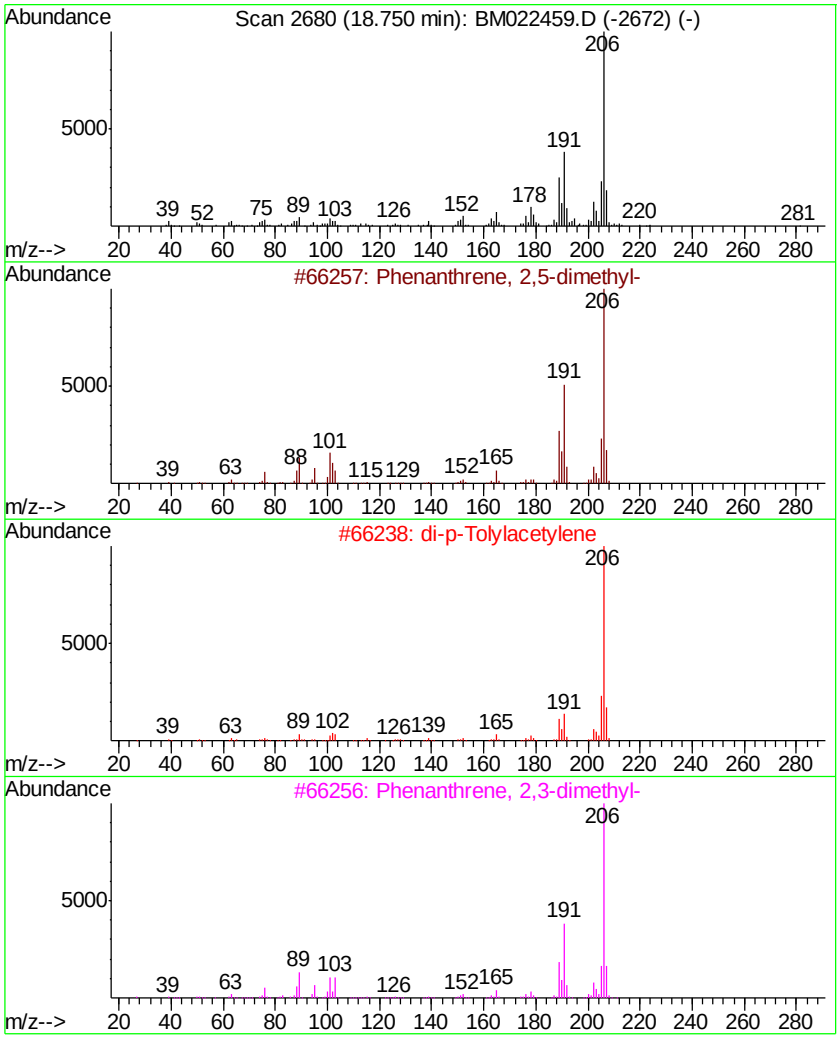
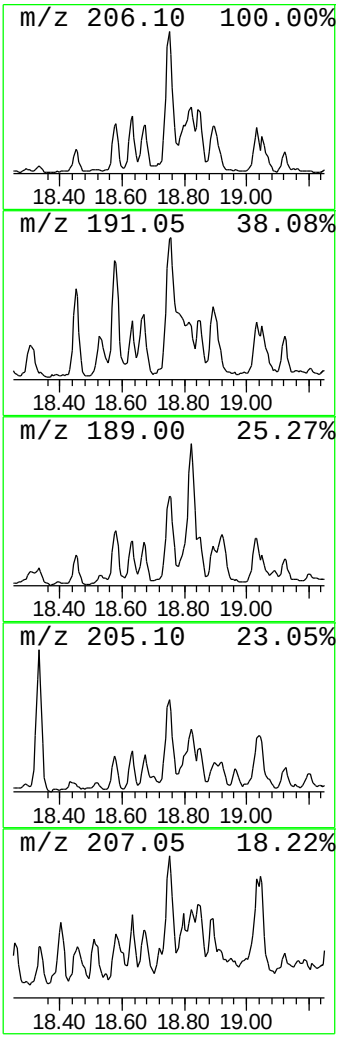
Peak Number 14 Phenanthrene, 2,5-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.75	45.75 ng	541091	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
5	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	91





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ClientSampleId : SB-4-14-16

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

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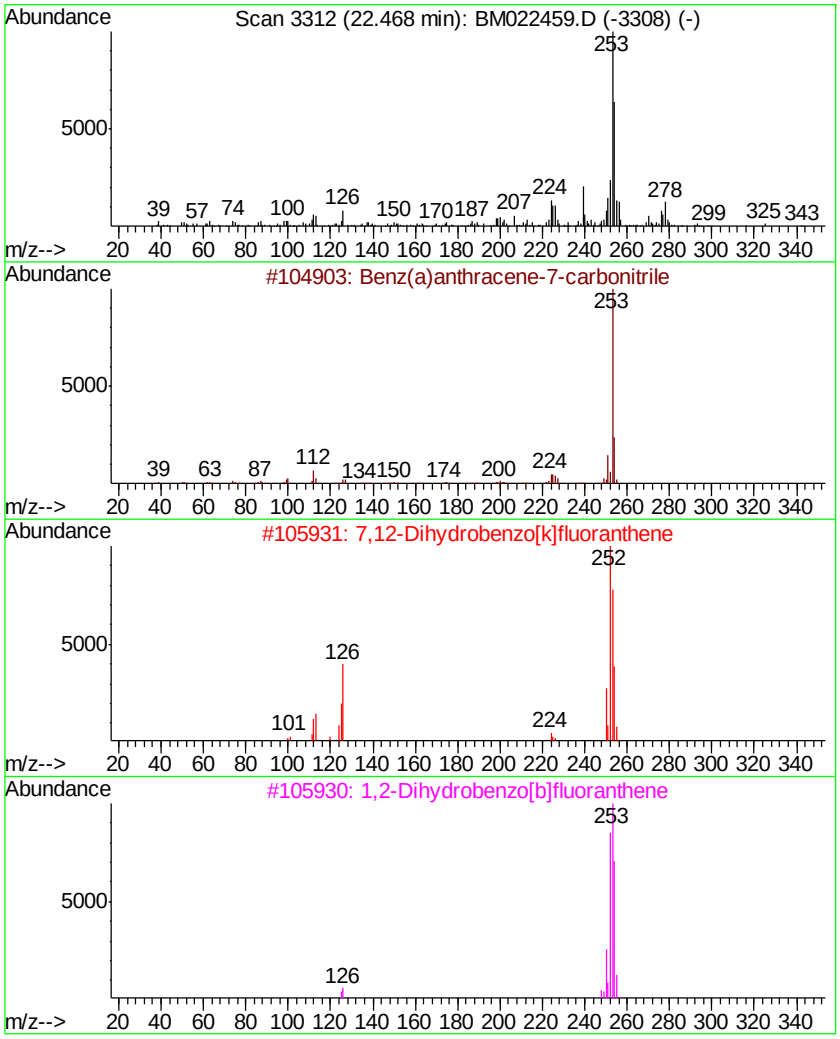
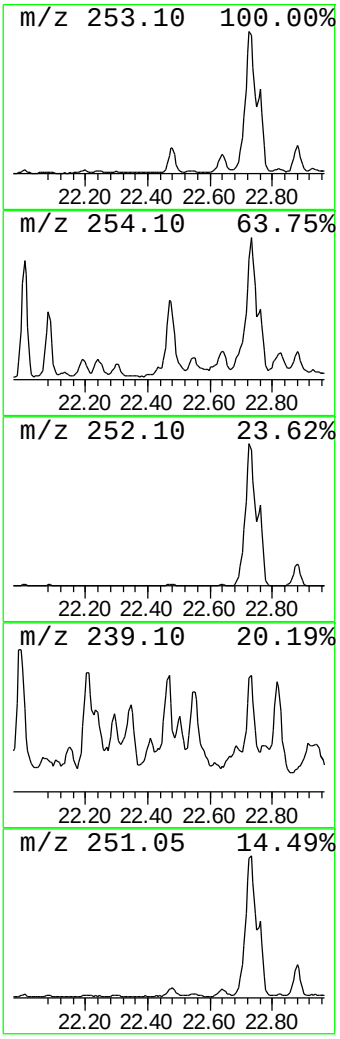
Peak Number 15 Benz(a)anthracene-7-carboni... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.47	22.12 ng	492769	Perylene-d12	23.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	60
2	7,12-Dihydrobenzo[k]fluoranthene	254	C20H14	1000080-17-7	59
3	1,2-Dihydrobenzo[b]fluoranthene	254	C20H14	100516-13-0	53
4	Benzimidazol-5-amine, 1-(4-ethox...	253	C15H15N3O	007104-62-3	47
5	Plumbane, trimethyl(1-methylprop...	310	C7H18Pb	054964-76-0	43





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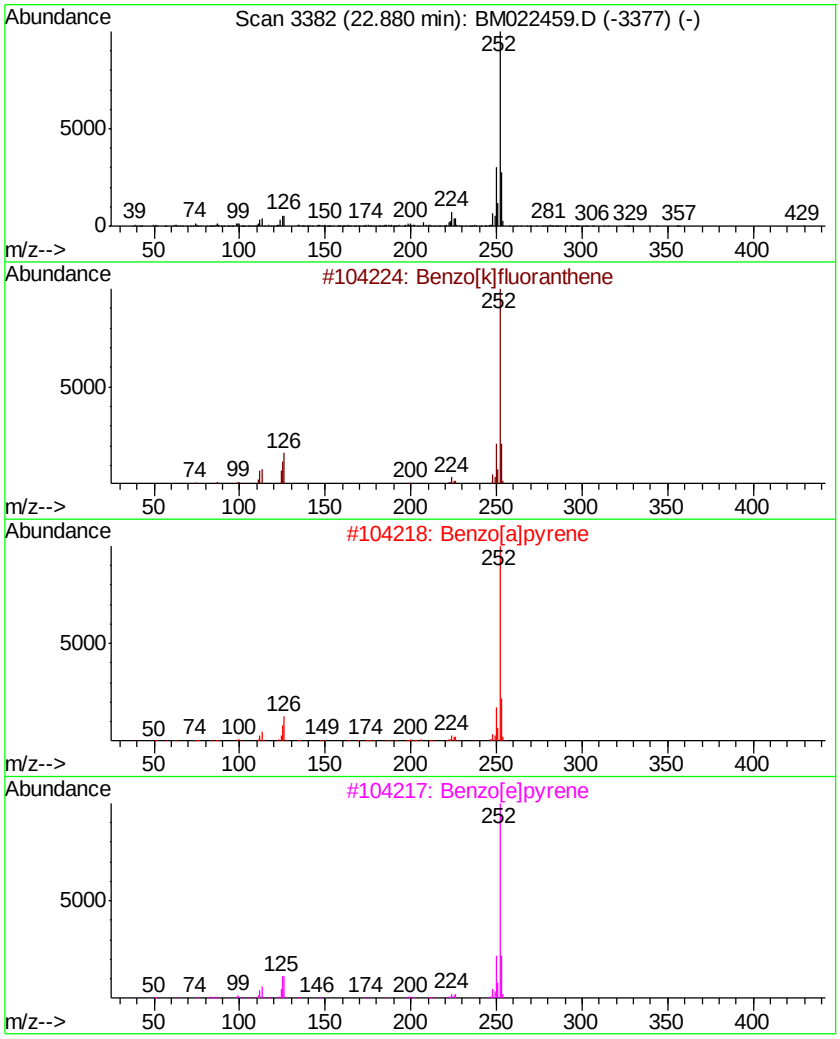
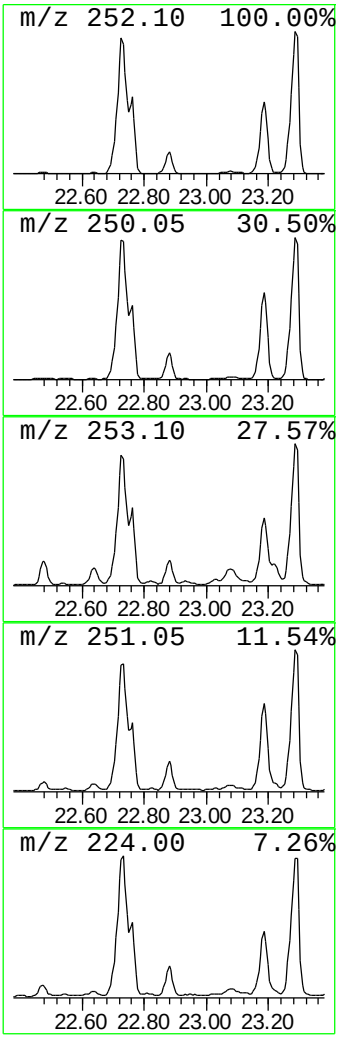
Peak Number 16 Benzo[e]pyrene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.88	43.87 ng	977324	Perylene-d12	23.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	91
2	Benzo[a]pyrene	252	C20H12	000050-32-8	87
3	Benzo[e]pyrene	252	C20H12	000192-97-2	87
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	81
5	Perylene	252	C20H12	000198-55-0	81





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TIC Integration Parameters: LSCINT.P

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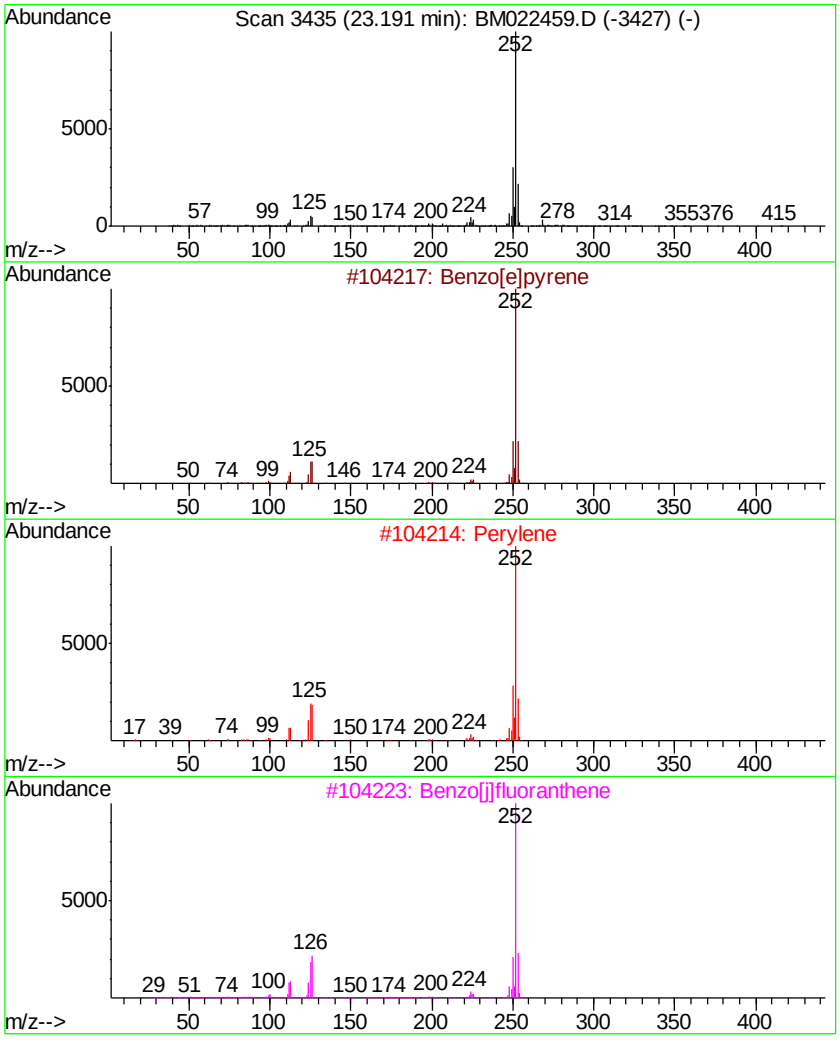
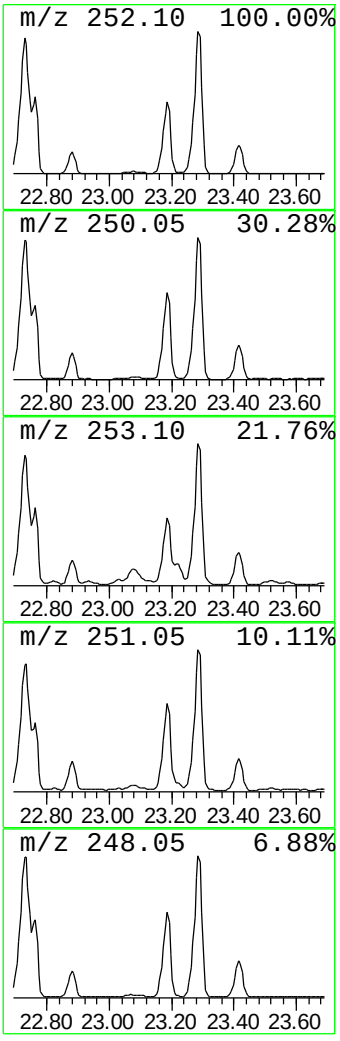
Peak Number 17 Perylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.19	179.34 ng	3995500	Perylene-d12	23.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	94
2	Perylene	252	C20H12	000198-55-0	93
3	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022459.D
Acq On : 31 Aug 2019 02:13
Operator : HP/JU
Sample : K4618-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-14-16

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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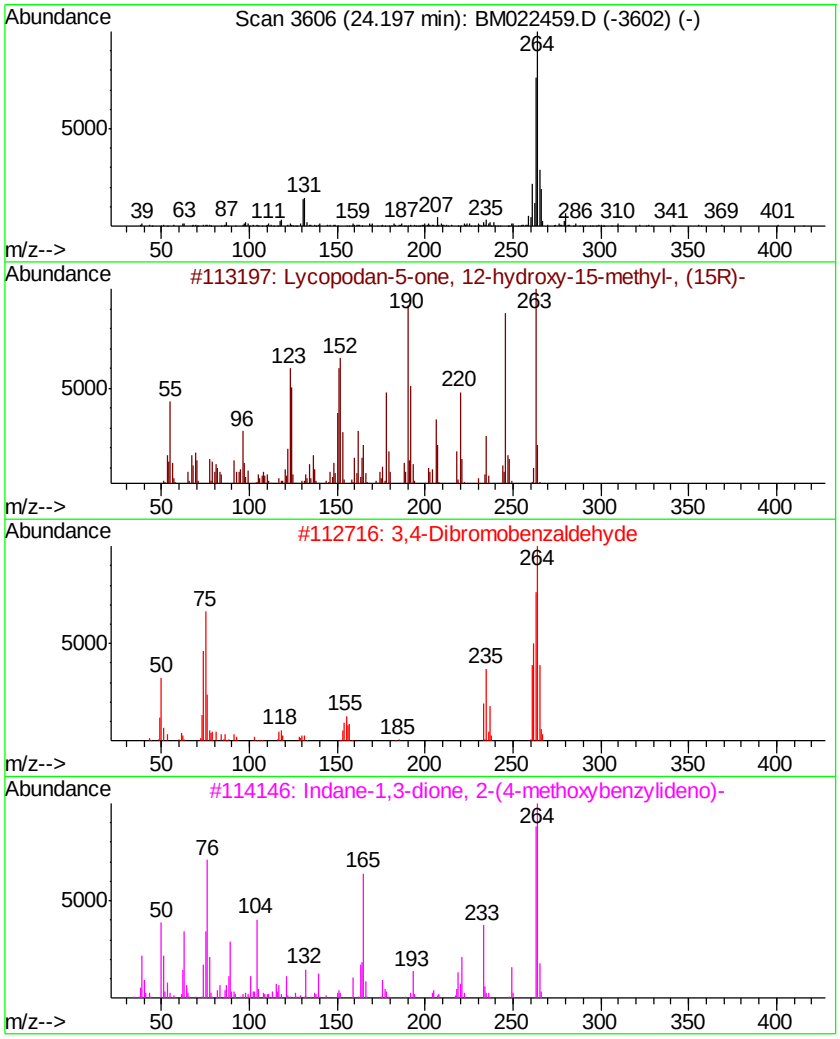
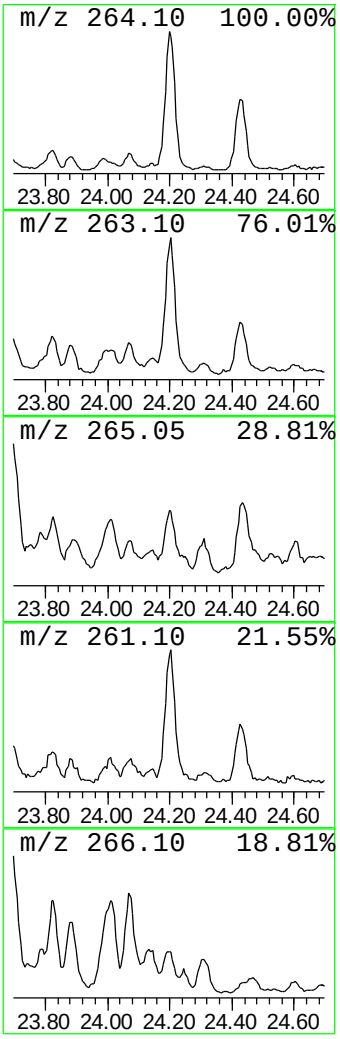
Peak Number 18 Lycopodan-5-one, 12-hydroxy... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.20	23.66 ng	527142	Perylene-d12	23.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Lycopodan-5-one, 12-hydroxy-15-m...	263	C16H25NO2	006900-92-1	83
2	3,4-Dibromobenzaldehyde	262	C7H4Br2O	074003-55-7	72
3	Indane-1,3-dione, 2-(4-methoxybe...	264	C17H12O3	007421-76-3	40
4	Pentan-2-one, 4-(2-fluorenylimino)-	263	C18H17NO	050651-58-6	27
5	7-Carbomethoxy-5,8-dimethoxy-1-t...	264	C14H16O5	122136-07-6	25





Library Search Compound Report

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Data File : BM022459.D
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Misc :
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Instrument : BNA_M
ClientSampleId : SB-4-14-16

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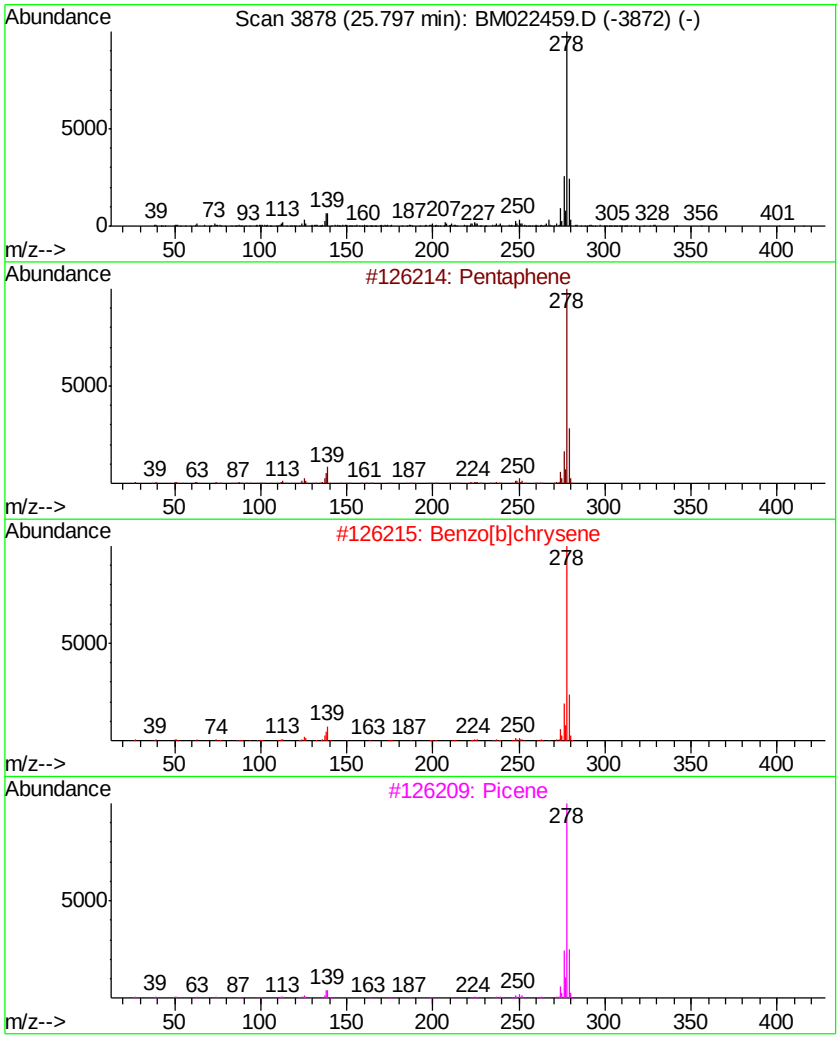
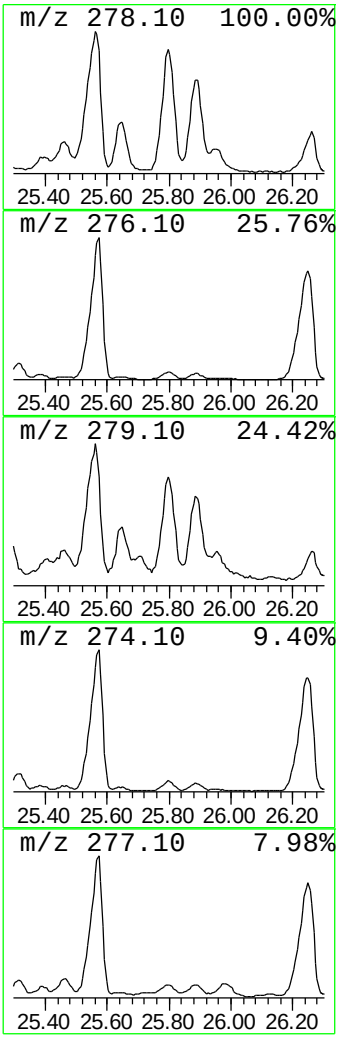
Peak Number 19 Pentaphene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.80	28.64 ng	637983	Perylene-d12	23.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentaphene	278	C22H14	000222-93-5	97
2	Benzo[b]chrysene	278	C22H14	000214-17-5	96
3	Picene	278	C22H14	000213-46-7	95
4	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	93
5	Benzo[a]naphthacene	278	C22H14	000226-88-0	91





Library Search Compound Report

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Data File : BM022459.D
Acq On : 31 Aug 2019 02:13
Operator : HP/JU
Sample : K4618-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-14-16

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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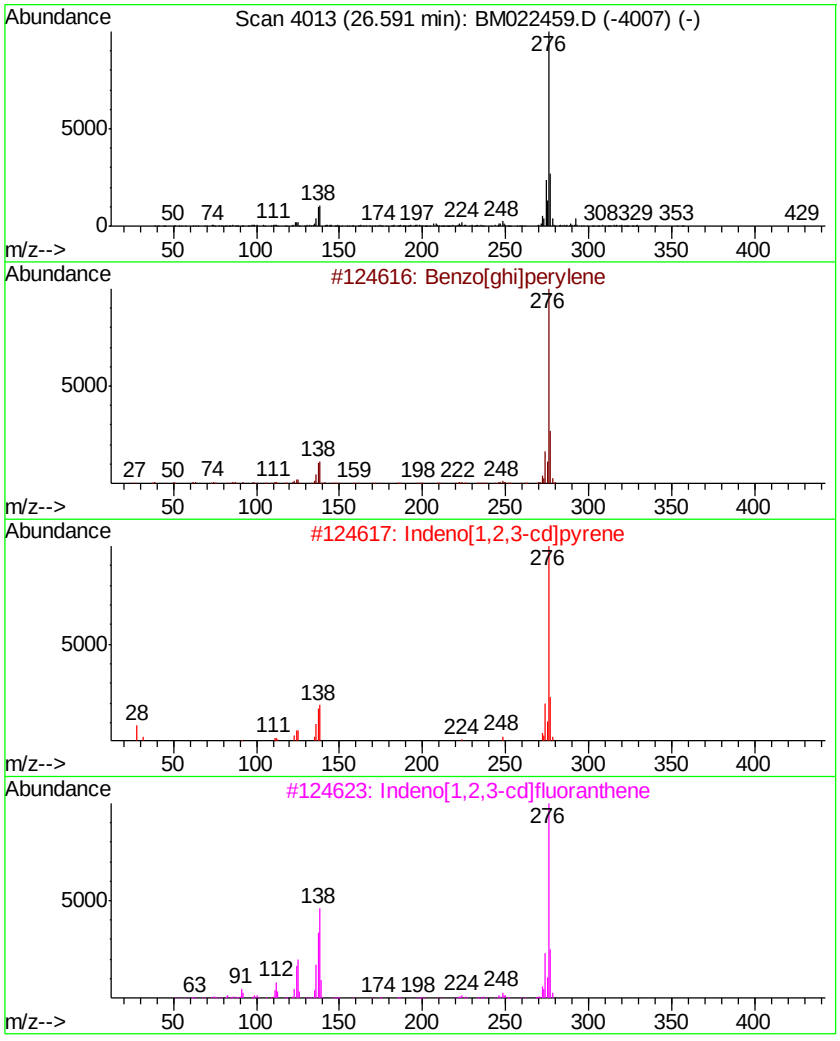
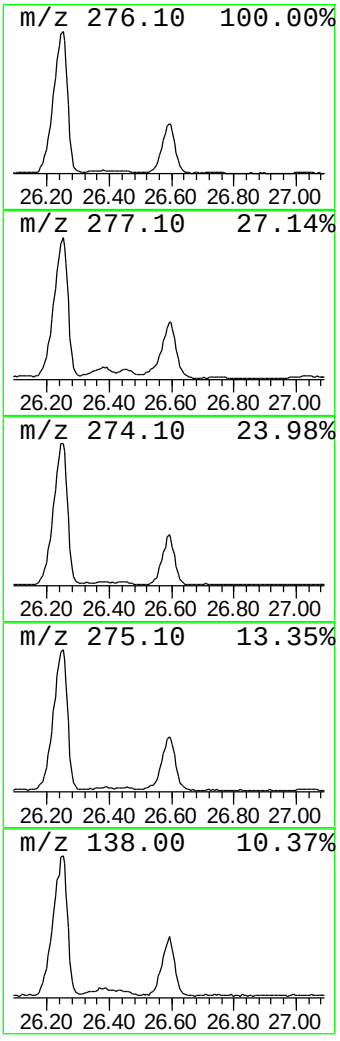
Peak Number 20 Indeno[1,2,3-cd]fluoranthene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
26.59	57.60 ng	1283310	Perylene-d12	23.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]perylene	276	C22H12	000191-24-2	95
2	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	93
3	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	81
4	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	81
5	1H-Cyclopenta[4,5]pyrido[1,2-a]b...	276	C17H16N4	329707-31-5	53





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM083019\
Data File : BM022459.D
Acq On : 31 Aug 2019 02:13
Operator : HP/JU
Sample : K4618-03
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Instrument : BNA_M
ClientSampleId : SB-4-14-16

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown7.06	7.06	30.9	ng	438902	1	7.52	284179	20.0
Dibenzofuran, 4-m...	15.53	22.1	ng	262343	3	14.18	237081	20.0
9H-Fluorene, 2-me...	16.25	30.9	ng	365283	4	16.95	236563	20.0
Phenol, 4-(2-phen...	16.67	20.8	ng	245458	4	16.95	236563	20.0
Naphtho[1,2-b]thi...	16.77	46.7	ng	552555	4	16.95	236563	20.0
Phenanthridine	17.15	22.6	ng	267221	4	16.95	236563	20.0
Phenanthrene, 1-m...	17.82	76.7	ng	906978	4	16.95	236563	20.0
Anthracene, 2-met...	17.87	96.7	ng	1144100	4	16.95	236563	20.0
Anthracene, 1-met...	17.96	47.7	ng	564516	4	16.95	236563	20.0
4H-Cyclopenta[def...	18.03	156.6	ng	1851660	4	16.95	236563	20.0
1H-Indene, 2-phenyl-	18.06	43.2	ng	511366	4	16.95	236563	20.0
5,16[1',2']:8,13[...	18.33	61.8	ng	730684	4	16.95	236563	20.0
9,10-Anthracenedione	18.40	27.9	ng	330154	4	16.95	236563	20.0
Phenanthrene, 2,5...	18.75	45.8	ng	541091	4	16.95	236563	20.0
Benz(a)anthracene...	22.47	22.1	ng	492769	6	23.37	445585	20.0
Benzo[e]pyrene	22.88	43.9	ng	977324	6	23.37	445585	20.0
Perylene	23.19	179.3	ng	3995500	6	23.37	445585	20.0
Lycopodan-5-one, ...	24.20	23.7	ng	527142	6	23.37	445585	20.0
Pentaphene	25.80	28.6	ng	637983	6	23.37	445585	20.0
Indeno[1,2,3-cd]f...	26.59	57.6	ng	1283310	6	23.37	445585	20.0