LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091420\
Data File : BP003282.D
Acq On : 14 Sep 2020 22:55
Operator : CG/JU
Sample : L3981-08 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B19-4-6

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.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	4.405	251	258	270	rVB	365546	578070	3.36%	0.279%
2	5.257	397	403	411	rBV	274071	422120	2.45%	0.204%
3	6.840	665	672	685	rBV	256154	468257	2.72%	0.226%
4	7.640	802	808	824	rBV	578621	944123	5.49%	0.456%
5	8.793	992	1004	1017	rBV	176641	341084	1.98%	0.165%
6	10.422	1273	1281	1285	rBV	808727	1360788	7.91%	0.657%
7	10.469	1285	1289	1300	rVB	865051	1543386	8.97%	0.745%
8	12.092	1558	1565	1573	rBV	494586	791148	4.60%	0.382%
9	12.310	1594	1602	1614	rVB	458525	761362	4.43%	0.367%
10	12.904	1696	1703	1715	rBV	637074	970984	5.64%	0.469%
11	13.463	1789	1798	1805	rBV	171995	450295	2.62%	0.217%
12	13.610	1815	1823	1828	rBV	381290	662963	3.85%	0.320%
13	13.663	1828	1832	1840	rVB	221954	333357	1.94%	0.161%
14	13.845	1857	1863	1866	rBV	180803	258166	1.50%	0.125%
15	14.004	1882	1890	1904	rBV	1363293	2314177	13.45%	1.117%
16	14.286	1929	1938	1944	rBV	1223131	1998551	11.62%	0.964%
17	14.351	1944	1949	1957	rVV	490503	770340	4.48%	0.372%
18	14.686	2000	2006	2015	rVV	787162	1272463	7.40%	0.614%
19	14.916	2037	2045	2050	rBV3	155062	318391	1.85%	0.154%
20	15.086	2063	2074	2077	rBV3	118874	253346	1.47%	0.122%
21	15.339	2111	2117	2129	rVB	1159384	1806678	10.50%	0.872%
22	15.639	2163	2168	2179	rVB	417626	692830	4.03%	0.334%
23	15.786	2179	2193	2201	rVV	704448	1392547	8.10%	0.672%
24	16.351	2278	2289	2294	rBV4	277508	669520	3.89%	0.323%
25	16.398	2294	2297	2303	rVB2	181408	265118	1.54%	0.128%
26	16.622	2332	2335	2339	rVV2	228834	311690	1.81%	0.150%
27	16.698	2343	2348	2356	rVB	957108	1428240	8.30%	0.689%
28	16.792	2357	2364	2369	rBV2	301510	704400	4.09%	0.340%
29	16.857	2371	2375	2386	rVB	734967	1190041	6.92%	0.574%
30	17.045	2401	2407	2410	rBV	1228520	1968482	11.44%	0.950%
31	17.098	2410	2416	2421	rVV	9035309	14879452	86.50%	7.181%
32	17.174	2425	2429	2435	rVV	1591301	2240086	13.02%	1.081%
33	17.233	2435	2439	2446	rVB3	259032	430479	2.50%	0.208%
34	17.451	2466	2476	2480	rBV2	990596	1740538	10.12%	0.840%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091420\
Data File : BP003282.D
Acq On : 14 Sep 2020 22:55
Operator : CG/JU
Sample : L3981-08 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B19-4-6

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	17.569	2491	2496	2501	rVB2	316380	443638	2.58%	0.214%
36	17.627	2501	2506	2511	rBV4	468811	683871	3.98%	0.330%
37	17.769	2526	2530	2538	rVB	240713	397972	2.31%	0.192%
38	17.839	2538	2542	2546	rBV	171610	244183	1.42%	0.118%
39	17.921	2550	2556	2559	rVV	1864311	2726846	15.85%	1.316%
40	17.969	2559	2564	2571	rVB	2372992	3328530	19.35%	1.606%
41	18.045	2572	2577	2581	rBV	494429	699403	4.07%	0.338%
42	18.104	2581	2587	2591	rBV2	2274476	3945179	22.93%	1.904%
43	18.145	2591	2594	2600	rVB	1346912	1721382	10.01%	0.831%
44	18.221	2602	2607	2610	rBV4	152185	277257	1.61%	0.134%
45	18.404	2633	2638	2642	rVV	1318410	1830330	10.64%	0.883%
46	18.451	2642	2646	2652	rVB	1905060	2628601	15.28%	1.269%
47	18.645	2676	2679	2684	rVV	530578	726508	4.22%	0.351%
48	18.692	2684	2687	2691	rVV	419006	538310	3.13%	0.260%
49	18.733	2691	2694	2698	rVB	364444	431838	2.51%	0.208%
50	18.816	2702	2708	2712	rBV	970626	1627340	9.46%	0.785%
51	18.874	2712	2718	2721	rVV2	503534	1048197	6.09%	0.506%
52	18.904	2721	2723	2726	rVB	345039	322534	1.88%	0.156%
53	18.951	2726	2731	2738	rVB	1109954	1721851	10.01%	0.831%
54	19.074	2744	2752	2757	rVB	10152723	15622519	90.82%	7.539%
55	19.133	2758	2762	2764	rBV	296745	359966	2.09%	0.174%
56	19.163	2764	2767	2772	rVB3	347122	451534	2.62%	0.218%
57	19.216	2772	2776	2779	rVB	783510	961581	5.59%	0.464%
58	19.268	2779	2785	2788	rBV2	495060	823703	4.79%	0.398%
59	19.304	2788	2791	2795	rVB	314968	389743	2.27%	0.188%
60	19.427	2802	2812	2819	rBV2	9485697	17201658	100.00%	8.301%
61	19.486	2819	2822	2830	rVB3	598950	1038301	6.04%	0.501%
62	19.592	2836	2840	2842	rBV	637157	870402	5.06%	0.420%
63	19.616	2842	2844	2847	rVV	876721	993196	5.77%	0.479%
64	19.651	2847	2850	2856	rVB	691934	969744	5.64%	0.468%
65	19.745	2859	2866	2871	rBV3	1001666	2409054	14.00%	1.163%
66	19.868	2882	2887	2889	rBV6	838704	1352296	7.86%	0.653%
67	19.904	2890	2893	2897	rVB	1440884	1853503	10.78%	0.894%
68	19.945	2897	2900	2905	rBV3	147453	275878	1.60%	0.133%
69	19.998	2905	2909	2913	rBV	784678	1058928	6.16%	0.511%
70	20.057	2913	2919	2923	rVV2	1428562	2267653	13.18%	1.094%
71	20.092	2923	2925	2929	rVB2	423613	496548	2.89%	0.240%

LSC Area Percent Report

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Data File : BP003282.D
Acq On : 14 Sep 2020 22:55
Operator : CG/JU
Sample : L3981-08 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B19-4-6

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	20.139	2930	2933	2938	rBV2	247032	385494	2.24%	0.186%
73	20.192	2938	2942	2946	rVV	926988	1154928	6.71%	0.557%
74	20.239	2946	2950	2954	rVB	981246	1292641	7.51%	0.624%
75	20.451	2982	2986	2988	rBV4	210607	310228	1.80%	0.150%
76	20.633	3013	3017	3023	rVB	1667352	2180288	12.67%	1.052%
77	20.792	3038	3044	3048	rBV2	1331107	2379296	13.83%	1.148%
78	20.833	3048	3051	3054	rVV	1355488	1618939	9.41%	0.781%
79	20.874	3054	3058	3062	rVV2	1156263	2039871	11.86%	0.984%
80	20.927	3063	3067	3077	rVB	1683937	2403991	13.98%	1.160%
81	21.133	3093	3102	3107	rBV3	6048602	11371017	66.10%	5.488%
82	21.180	3107	3110	3120	rVB	5746957	7851055	45.64%	3.789%
83	21.298	3126	3130	3134	rBV	713382	1111417	6.46%	0.536%
84	21.345	3135	3138	3143	rVV3	483780	684640	3.98%	0.330%
85	21.445	3152	3155	3161	rBV2	695661	1038805	6.04%	0.501%
86	21.498	3161	3164	3168	rVV4	308766	371507	2.16%	0.179%
87	21.686	3190	3196	3200	rBV	1072804	1697598	9.87%	0.819%
88	21.739	3202	3205	3211	rVB2	841883	1266773	7.36%	0.611%
89	21.804	3213	3216	3219	rVB2	307906	347196	2.02%	0.168%
90	21.880	3226	3229	3232	rBV	584922	787169	4.58%	0.380%
91	21.980	3242	3246	3255	rVB2	549288	977154	5.68%	0.472%
92	22.451	3322	3326	3333	rVB4	437510	928463	5.40%	0.448%
93	22.715	3364	3371	3376	rBV	4529949	11149943	64.82%	5.381%
94	22.880	3394	3399	3404	rBV	1063149	1647786	9.58%	0.795%
95	23.192	3446	3452	3461	rVB	3077350	6099844	35.46%	2.944%
96	23.292	3462	3469	3475	rVV	4148267	7736363	44.97%	3.734%
97	23.380	3479	3484	3488	rVV2	1002477	2012429	11.70%	0.971%
98	23.427	3488	3492	3501	rVB2	1128715	2326543	13.53%	1.123%
99	25.668	3865	3873	3882	rVB	2463049	7071282	41.11%	3.413%
100	26.368	3984	3992	4008	rVB	1817511	5698614	33.13%	2.750%

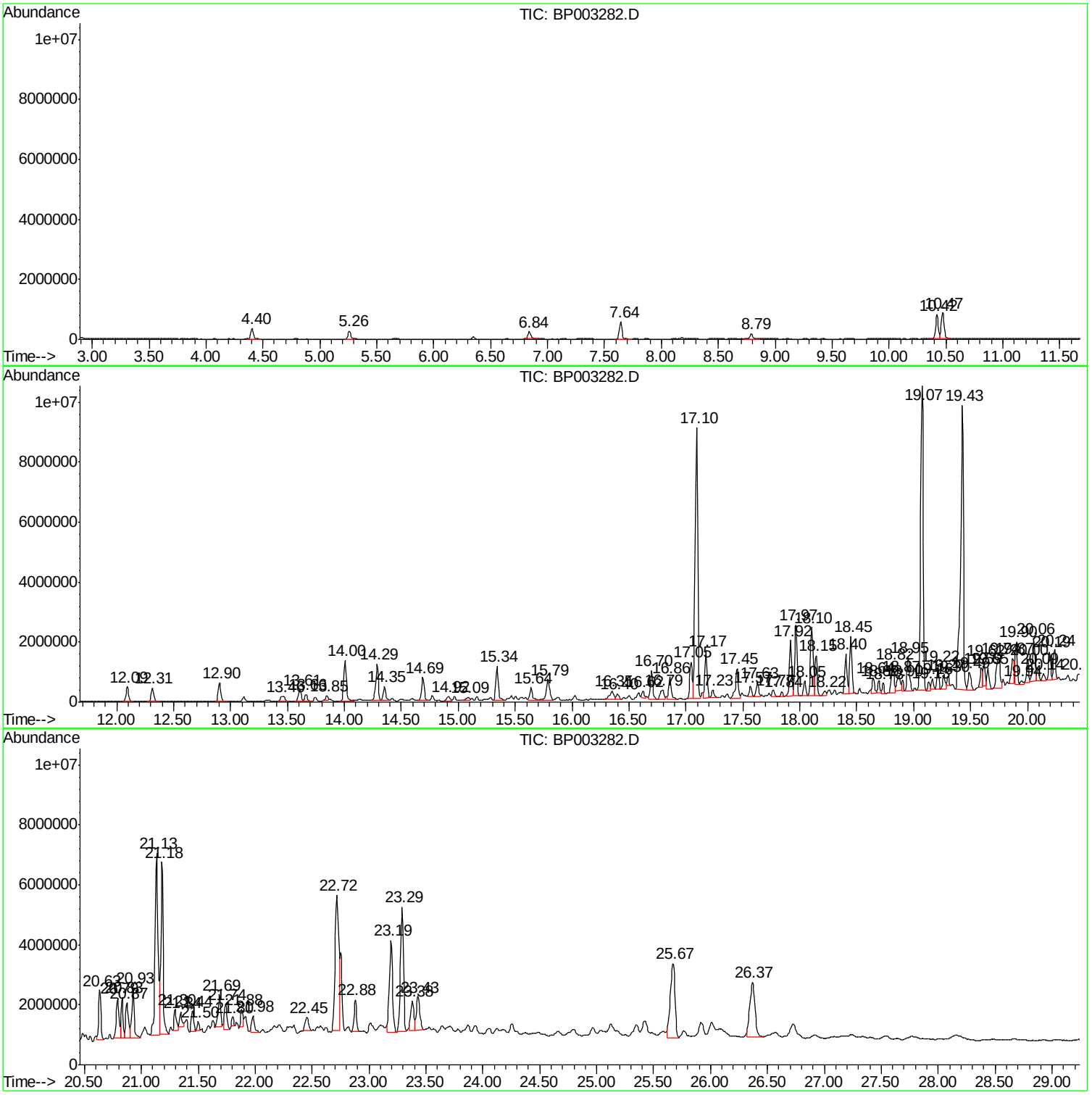
Sum of corrected areas: 207214723

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091420\
Data File : BP003282.D
Acq On : 14 Sep 2020 22:55
Operator : CG/JU
Sample : L3981-08 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B19-4-6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091420\
Data File : BP003282.D
Acq On : 14 Sep 2020 22:55
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Sample : L3981-08 5X
Misc :
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Instrument : BNA_P
ClientSampleId : B19-4-6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

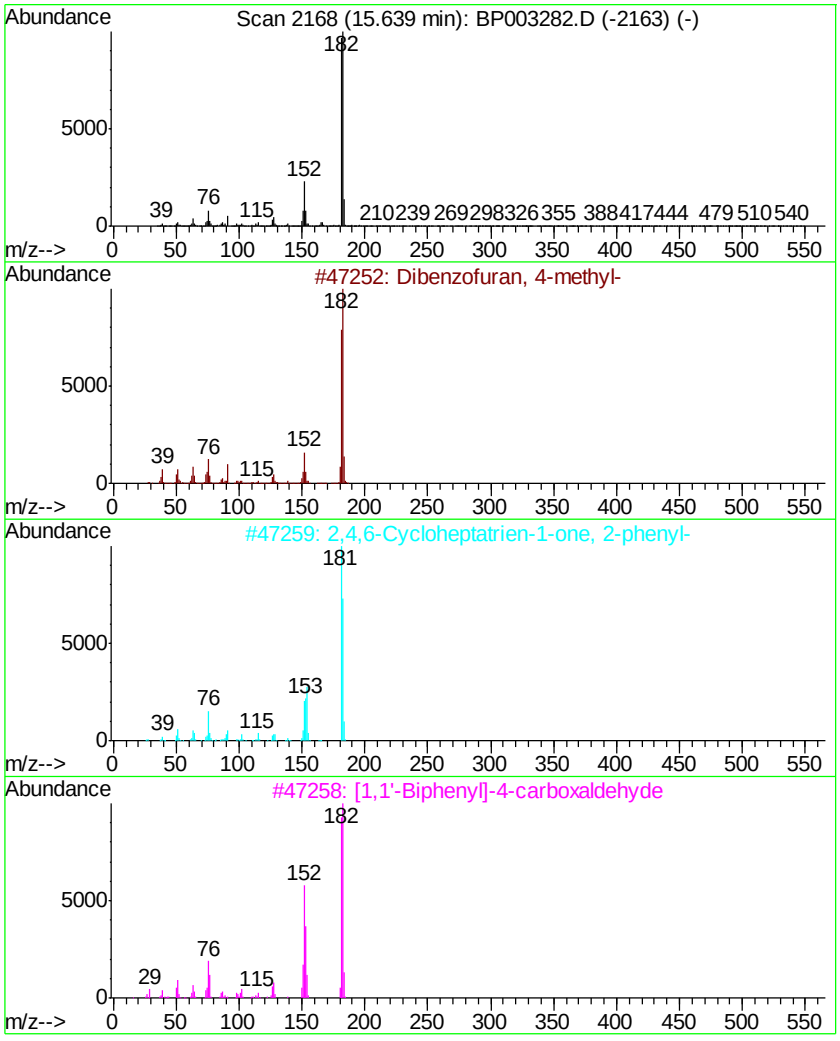
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

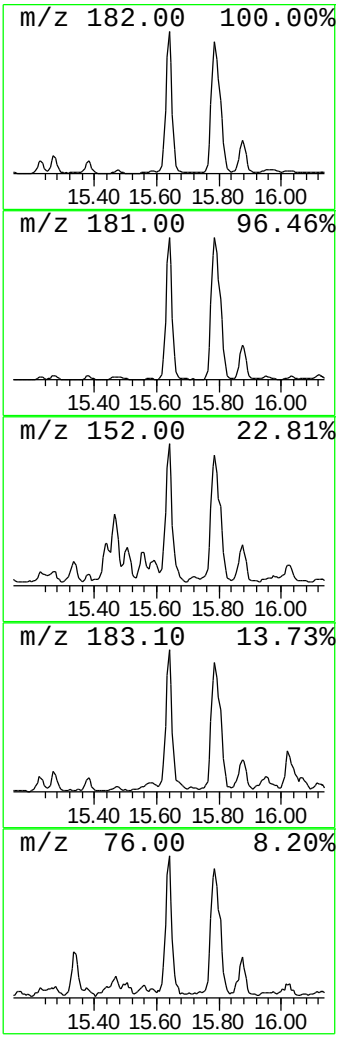
****

Peak Number 2 Dibenzofuran, 4-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.64	6.93 ng	692830	Acenaphthene-d10	14.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	91
2	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	90
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	83
4	Pyridine, 4,4'-(1,2-ethenediyl)bis-	182	C12H10N2	001135-32-6	64
5	Norharmane, N-methyl-	182	C12H10N2	1000374-78-6	64





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091420\
Data File : BP003282.D
Acq On : 14 Sep 2020 22:55
Operator : CG/JU
Sample : L3981-08 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B19-4-6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

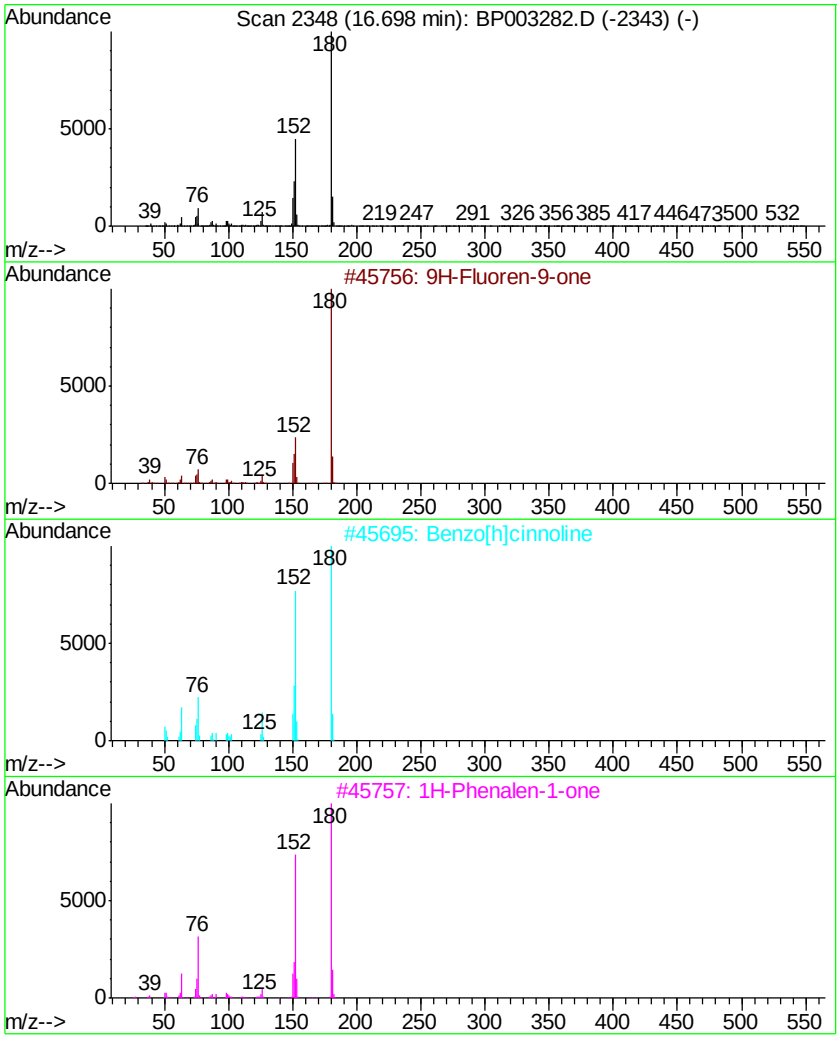
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

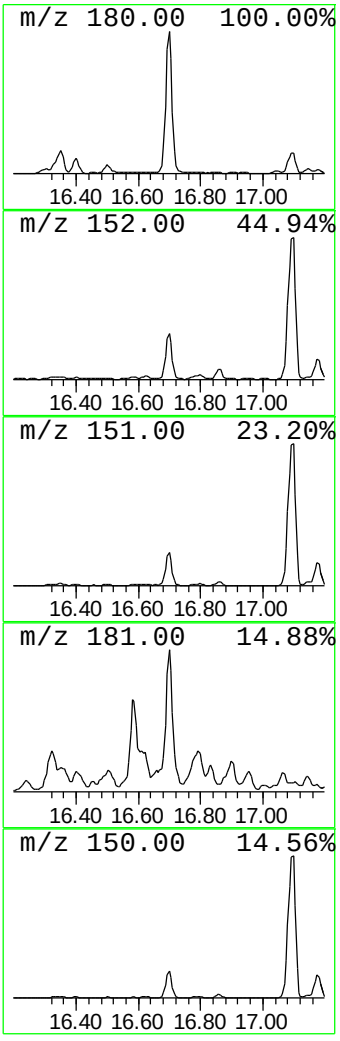
****

Peak Number 3 9H-Fluoren-9-one Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.70	14.51 ng	1428240	Phenanthrene-d10	17.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	97
2	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	91
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	78
4	6H-Purine-6-thione, 9-ethyl-1,9-...	180	C7H8N4S	005427-20-3	64
5	5-Methoxy-4-methyl-2,1,3-benzoth...	180	C8H8N2OS	089976-68-1	50





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Acq On : 14 Sep 2020 22:55
Operator : CG/JU
Sample : L3981-08 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B19-4-6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.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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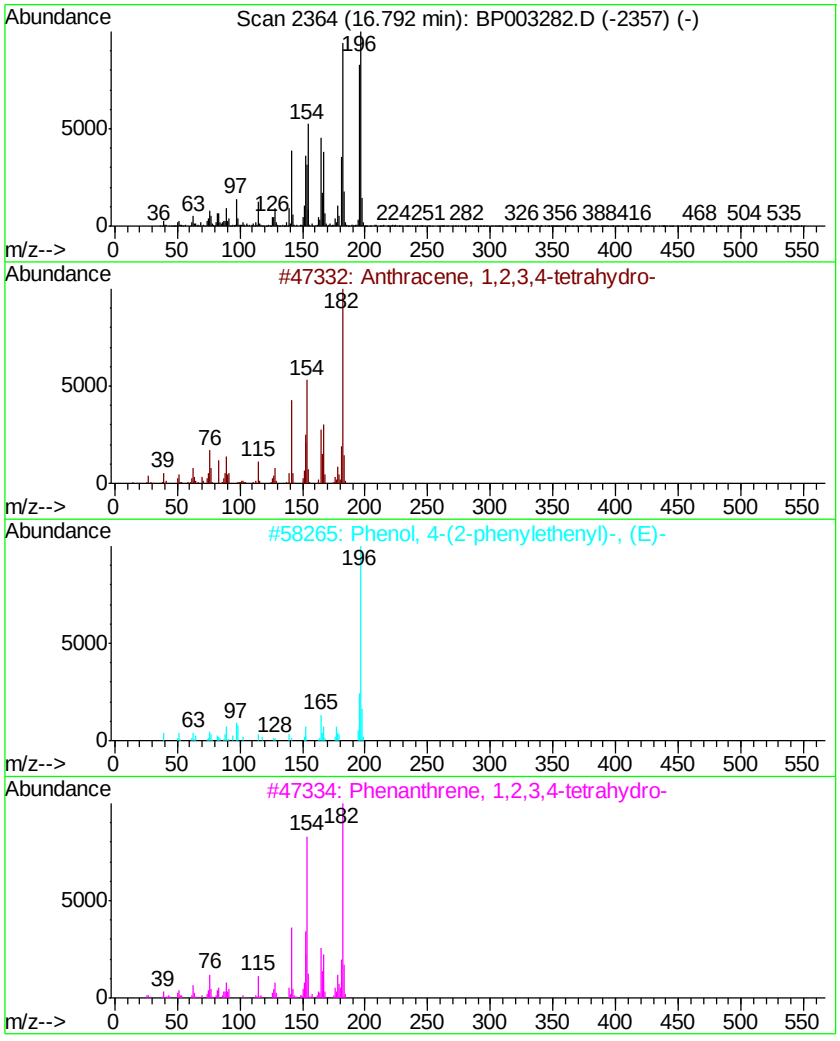
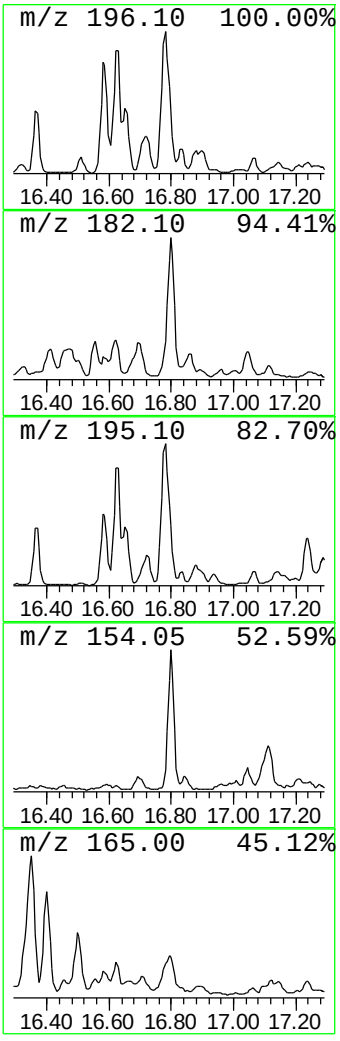
Peak Number 4 Anthracene, 1,2,3,4-tetrahy... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.79	7.16 ng	704400	Phenanthrene-d10	17.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	90
2	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	42
3	Phenanthrene, 1,2,3,4-tetrahydro-	182	C14H14	001013-08-7	42
4	4,4'-Dimethylbiphenyl	182	C14H14	000613-33-2	38
5	Bicyclo[3.2.1]octane-6-carboxyli...	182	C10H14O3	1000362-16-3	38





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091420\
Data File : BP003282.D
Acq On : 14 Sep 2020 22:55
Operator : CG/JU
Sample : L3981-08 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B19-4-6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

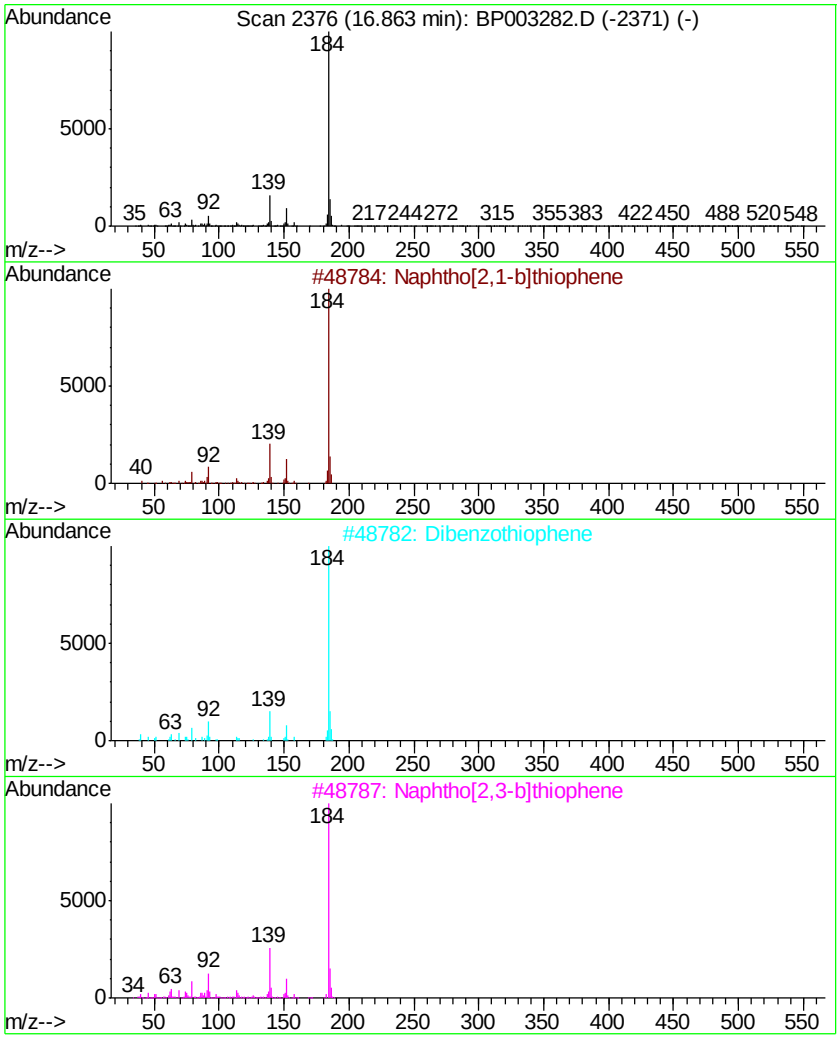
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

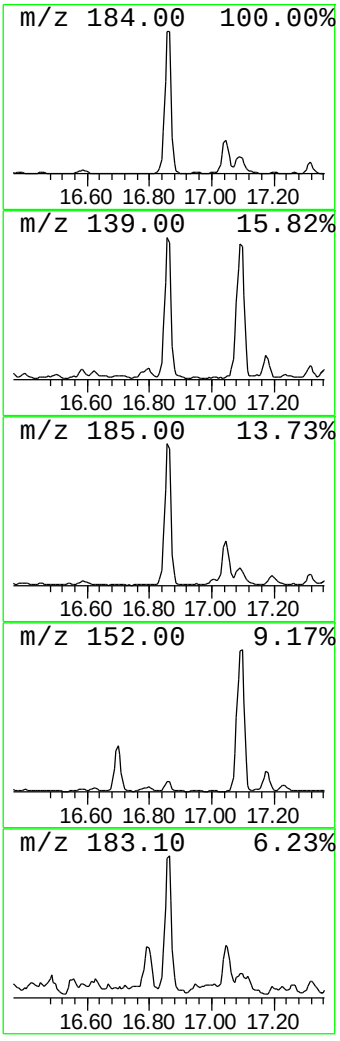
****

Peak Number 5 Naphtho[2,1-b]thiophene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.86	12.09 ng	1190040	Phenanthrene-d10	17.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
2	Dibenzothiophene	184	C12H8S	000132-65-0	95
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	91
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091420\
Data File : BP003282.D
Acq On : 14 Sep 2020 22:55
Operator : CG/JU
Sample : L3981-08 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B19-4-6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

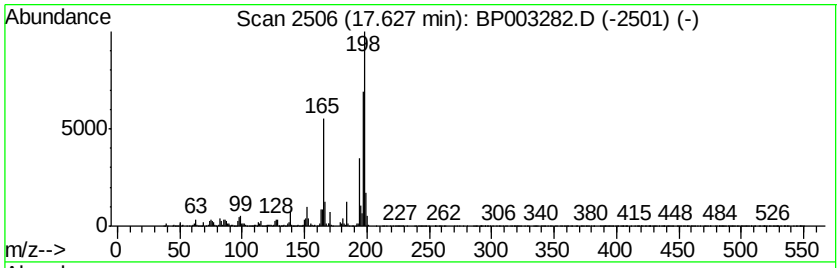
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

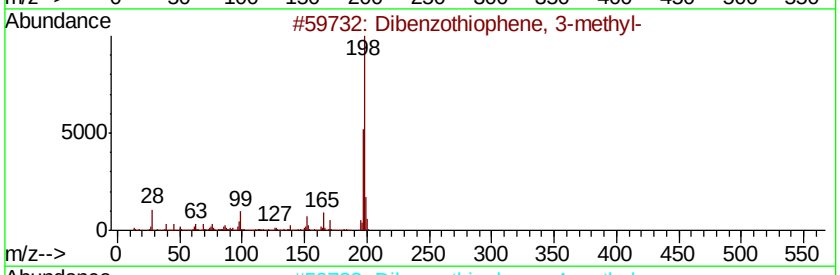
****

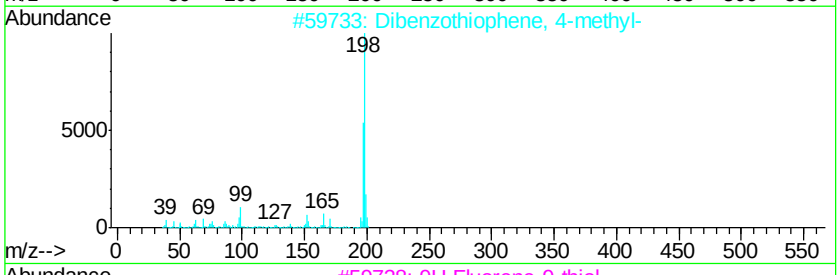
Peak Number 6 Dibenzothiophene, 3-methyl- Concentration Rank 19

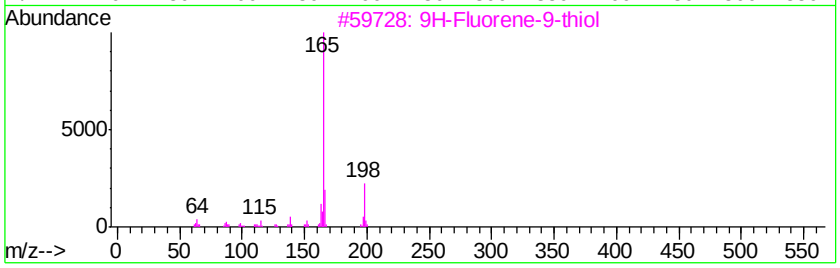
R.T.	EstConc	Area	Relative to ISTD	R.T.
17.63	6.95 ng	683871	Phenanthrene-d10	17.05

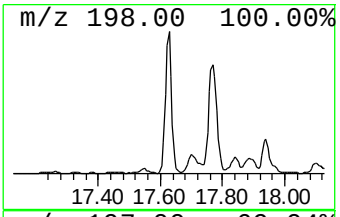
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	70
2	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	62
3	9H-Fluorene-9-thiol	198	C13H10S	019552-08-0	53
4	Methanethione, diphenyl-	198	C13H10S	001450-31-3	53
5	Thioxanthene	198	C13H10S	000261-31-4	50

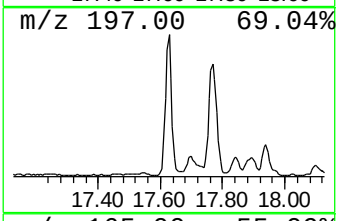


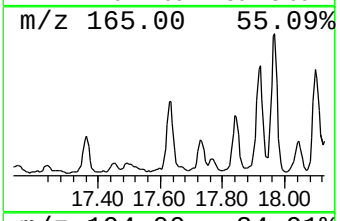


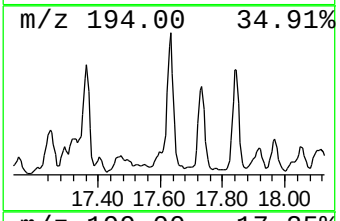


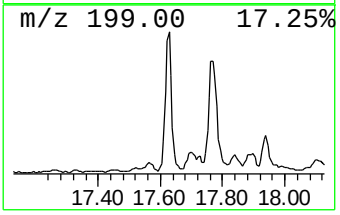












Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091420\
Data File : BP003282.D
Acq On : 14 Sep 2020 22:55
Operator : CG/JU
Sample : L3981-08 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B19-4-6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.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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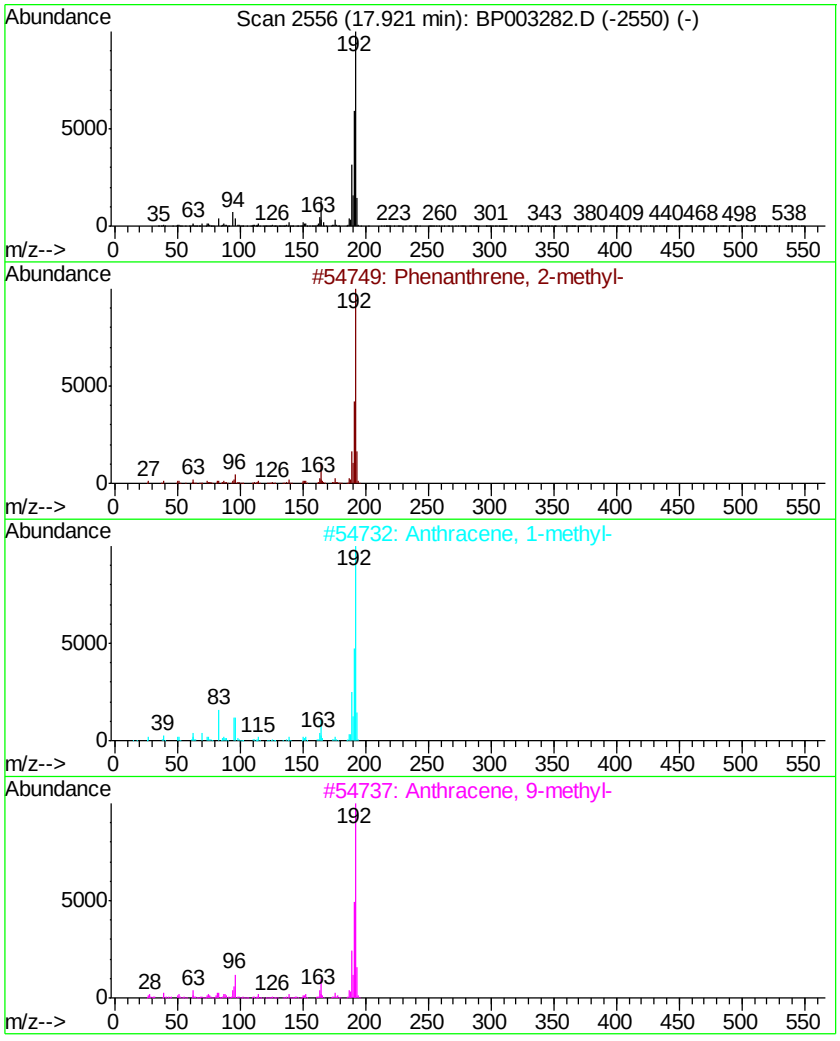
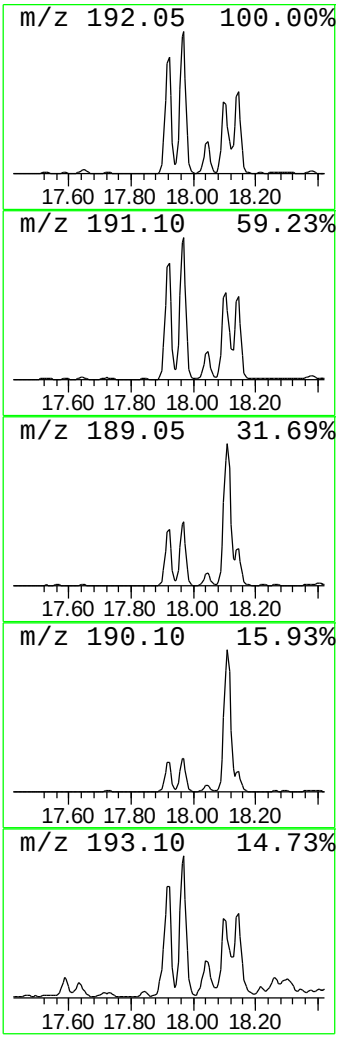
Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.92	27.71 ng	2726850	Phenanthrene-d10	17.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
4	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	91





Library Search Compound Report

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Acq On : 14 Sep 2020 22:55
Operator : CG/JU
Sample : L3981-08 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B19-4-6

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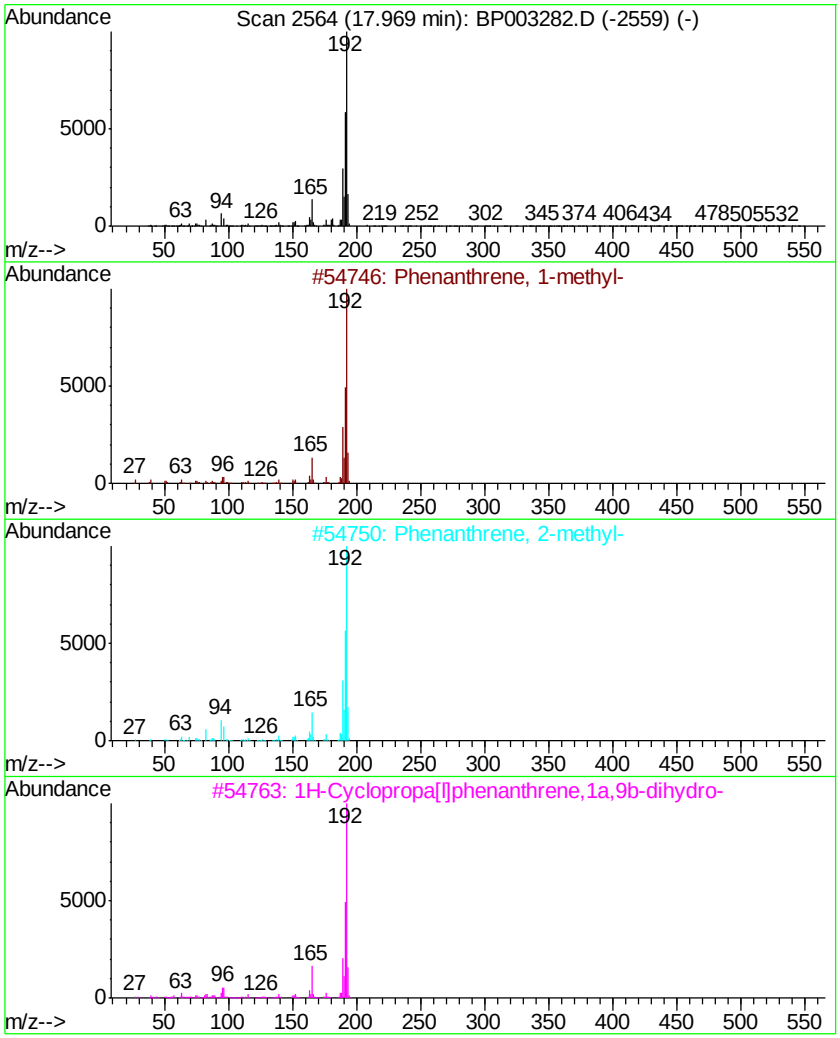
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

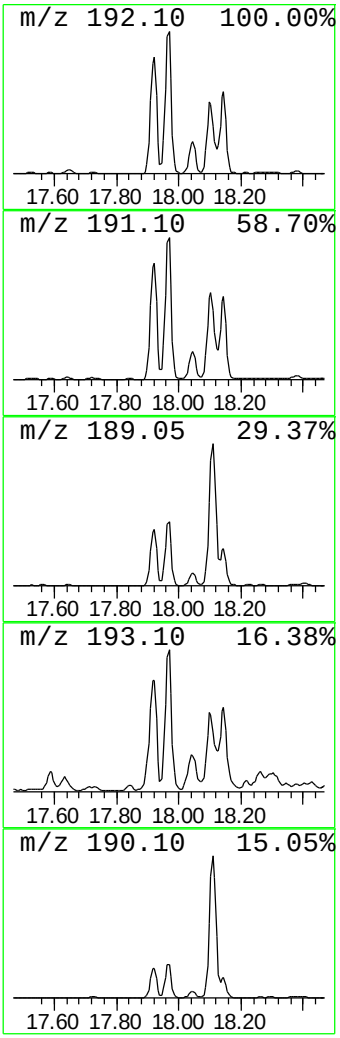
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 1H-Cyclopropa[l]phenanthren... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.97	33.82 ng	3328530	Phenanthrene-d10	17.05

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	95
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94





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Data File : BP003282.D
Acq On : 14 Sep 2020 22:55
Operator : CG/JU
Sample : L3981-08 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B19-4-6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.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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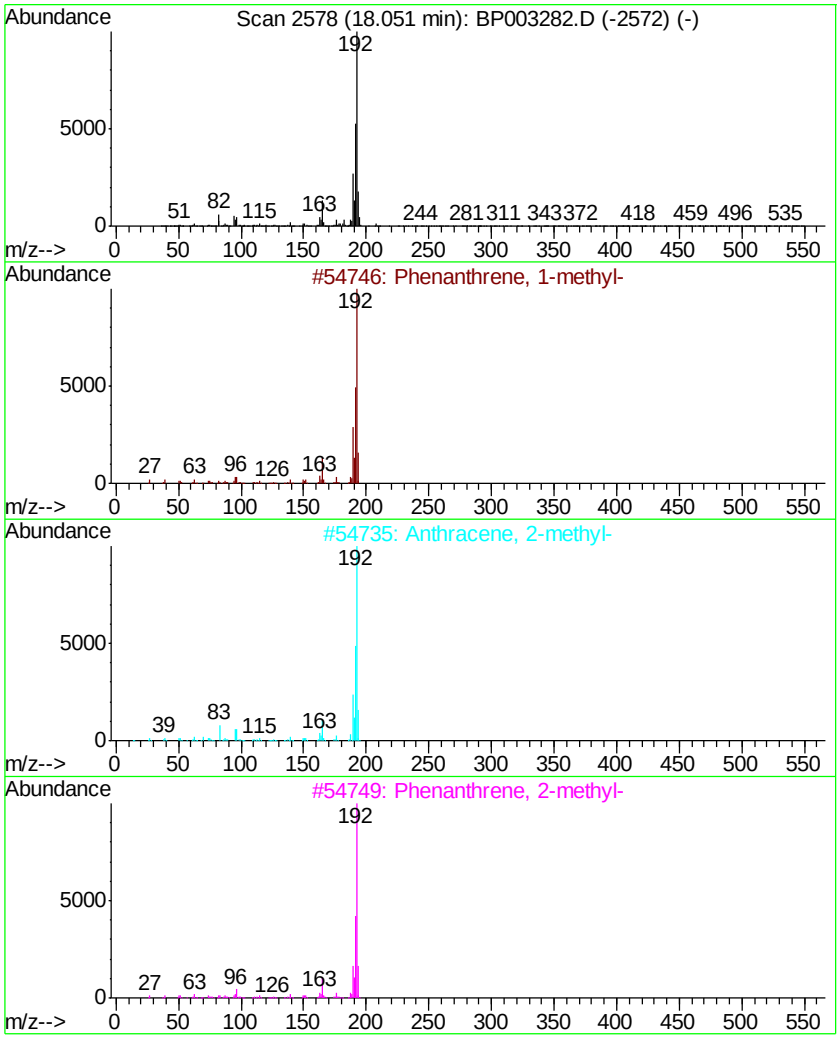
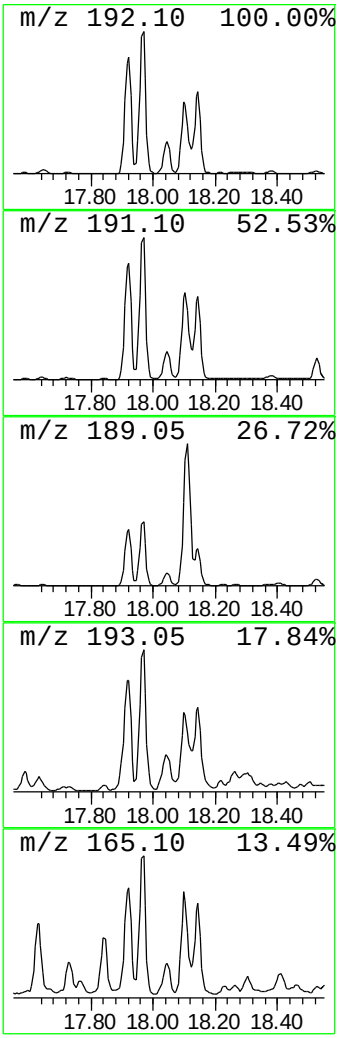
Peak Number 9 Anthracene, 2-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.05	7.11 ng	699403	Phenanthrene-d10	17.05

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	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	94





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Acq On : 14 Sep 2020 22:55
Operator : CG/JU
Sample : L3981-08 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B19-4-6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.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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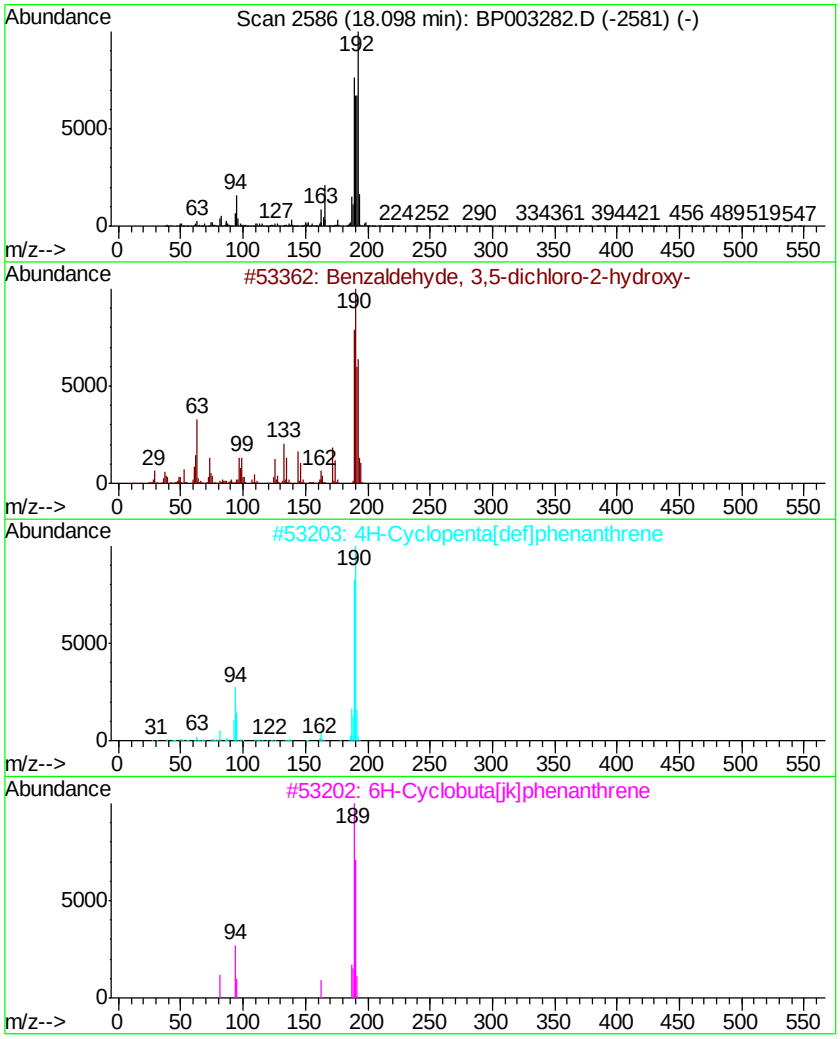
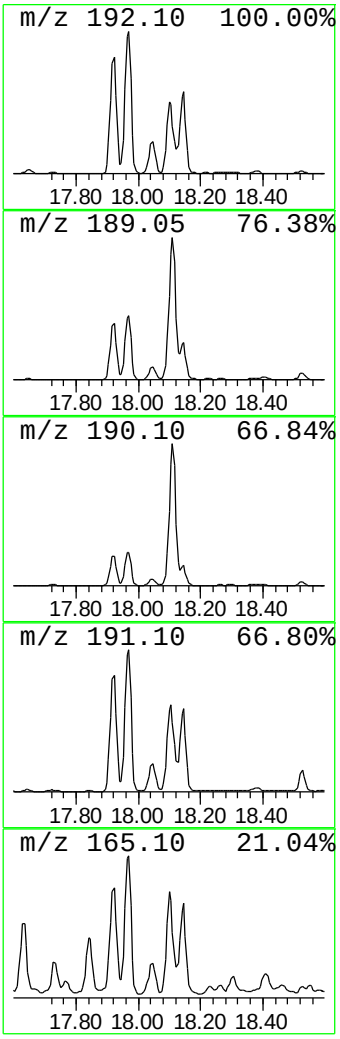
Peak Number 10 Benzaldehyde, 3,5-dichloro-... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.10	40.08 ng	3945180	Phenanthrene-d10	17.05

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	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
4	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	42
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	38





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Acq On : 14 Sep 2020 22:55
Operator : CG/JU
Sample : L3981-08 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B19-4-6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.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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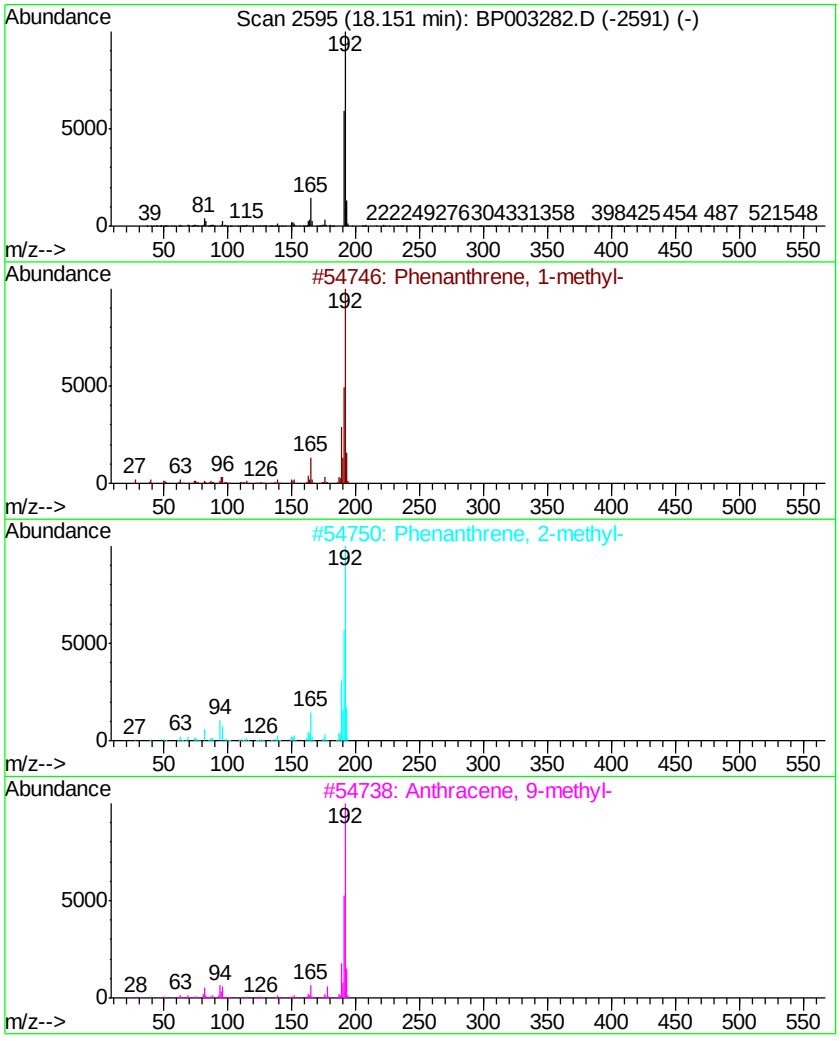
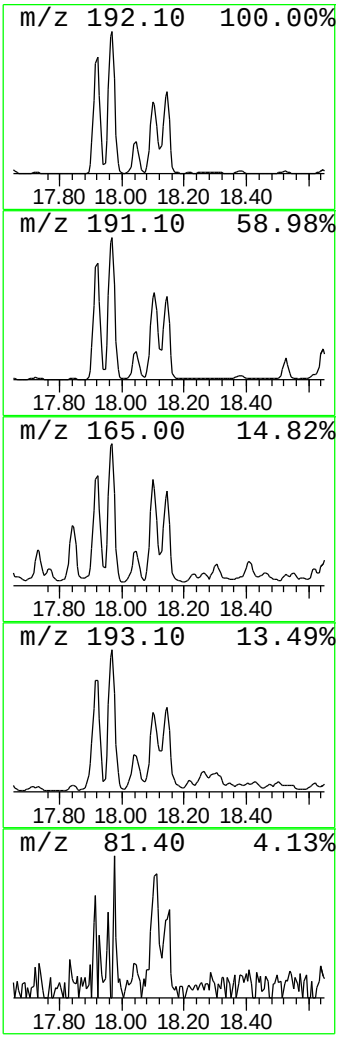
Peak Number 11 Anthracene, 9-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.15	17.49 ng	1721380	Phenanthrene-d10	17.05

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	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90





Library Search Compound Report

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Operator : CG/JU
Sample : L3981-08 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B19-4-6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.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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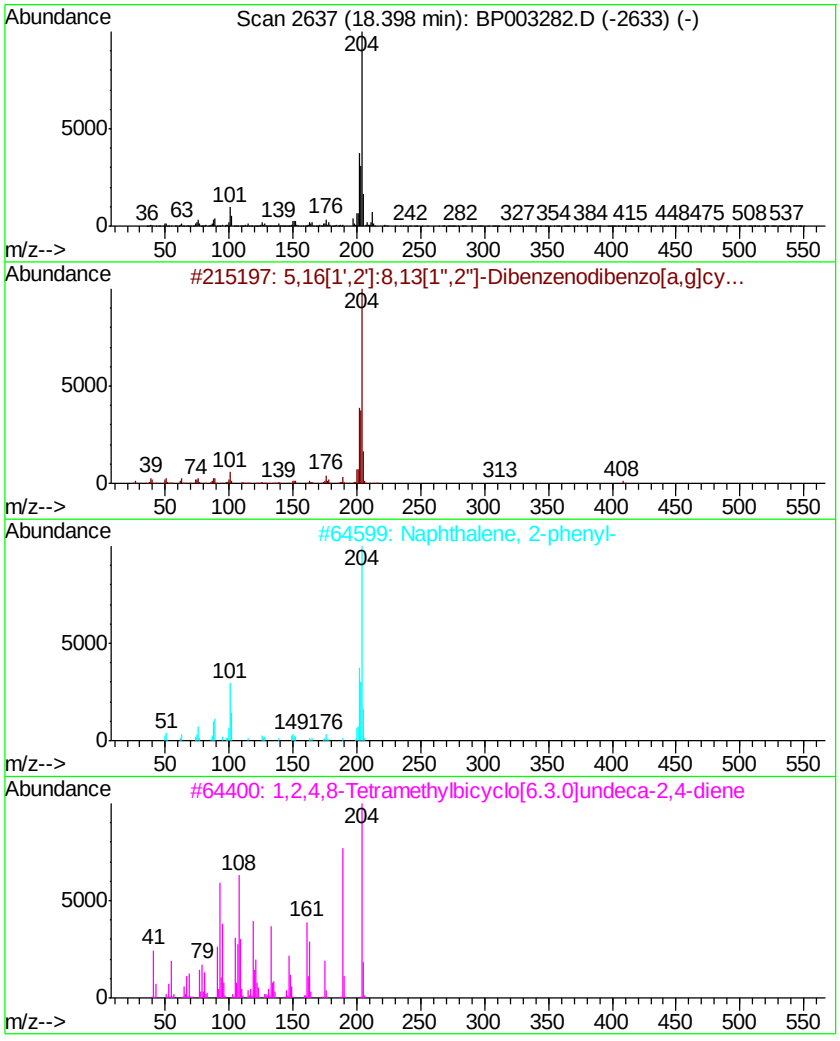
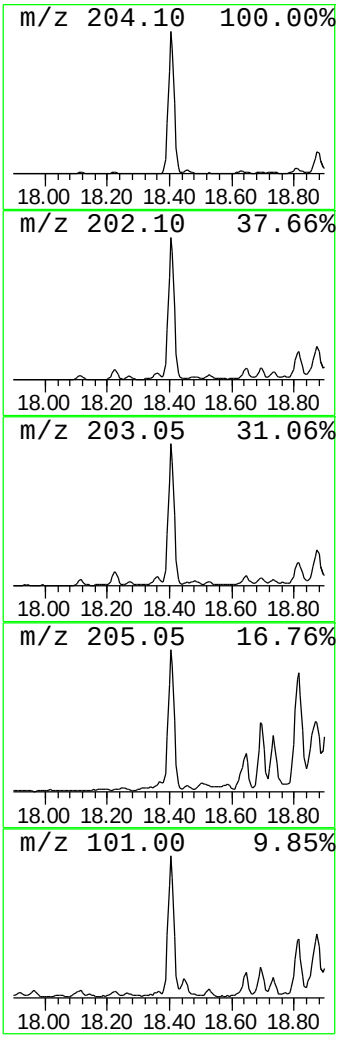
Peak Number 12 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.40	18.60 ng	1830330	Phenanthrene-d10	17.05

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	89
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	86
4	Levamisole	204	C11H12N2S	014769-73-4	52
5	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	50





Library Search Compound Report

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Acq On : 14 Sep 2020 22:55
Operator : CG/JU
Sample : L3981-08 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B19-4-6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.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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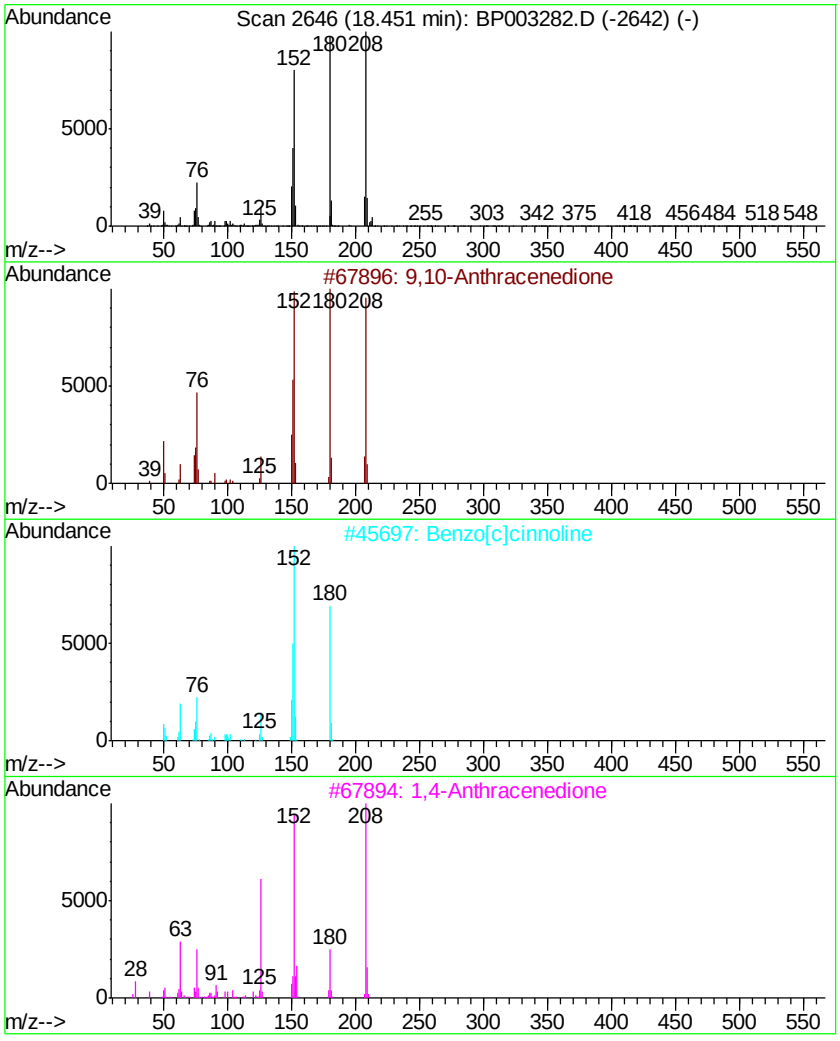
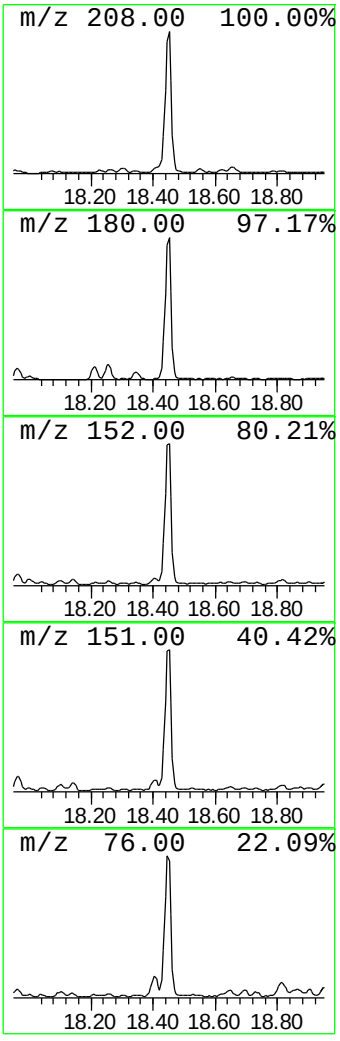
Peak Number 13 9,10-Anthracenedione Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.45	26.71 ng	2628600	Phenanthrene-d10	17.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	86
3	1,4-Anthracenedione	208	C14H8O2	000635-12-1	60
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
5	9H-Fluoren-9-one	180	C13H8O	000486-25-9	50





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Sample : L3981-08 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B19-4-6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.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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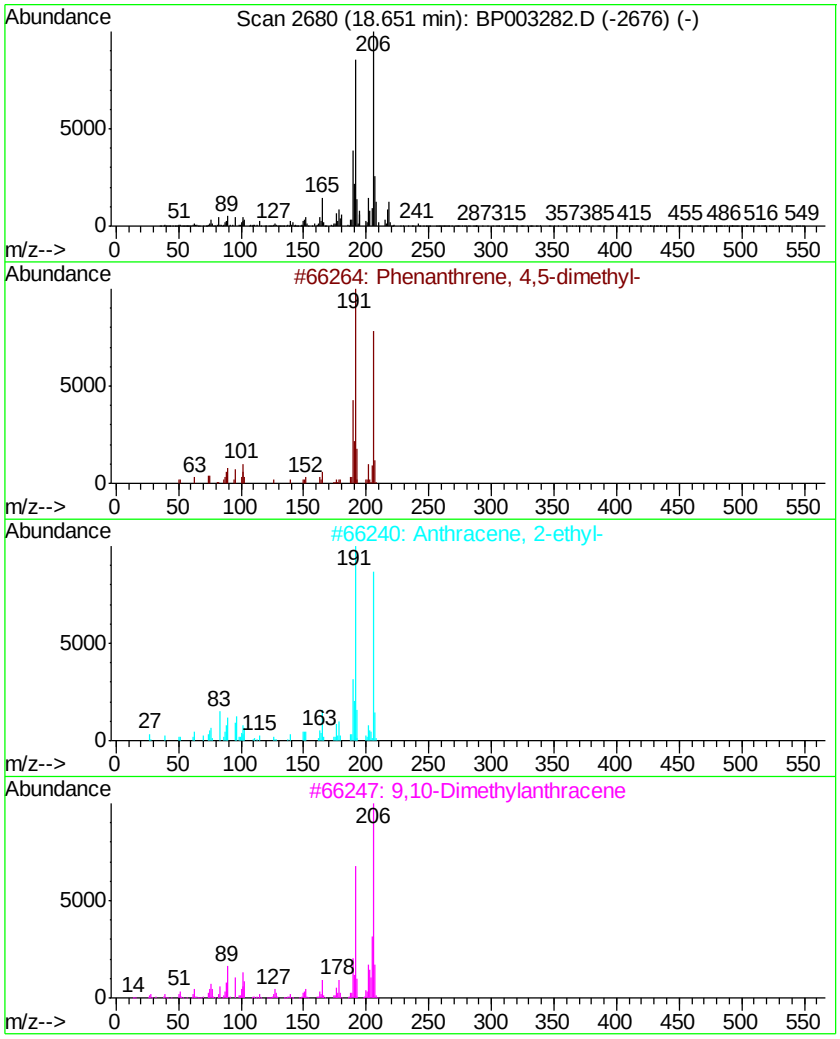
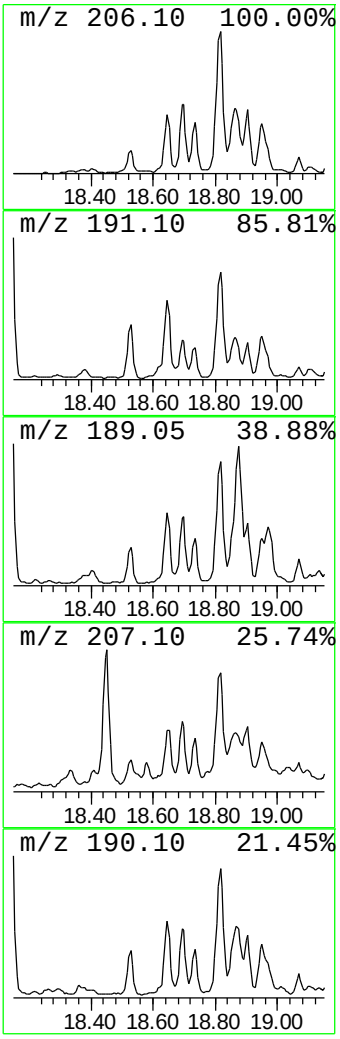
Peak Number 14 Phenanthrene, 4,5-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.65	7.38 ng	726508	Phenanthrene-d10	17.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	94
2	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	91
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	86
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	86
5	Phenanthrene, 9,10-dimethyl-	206	C16H14	000604-83-1	68





Library Search Compound Report

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Sample : L3981-08 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B19-4-6

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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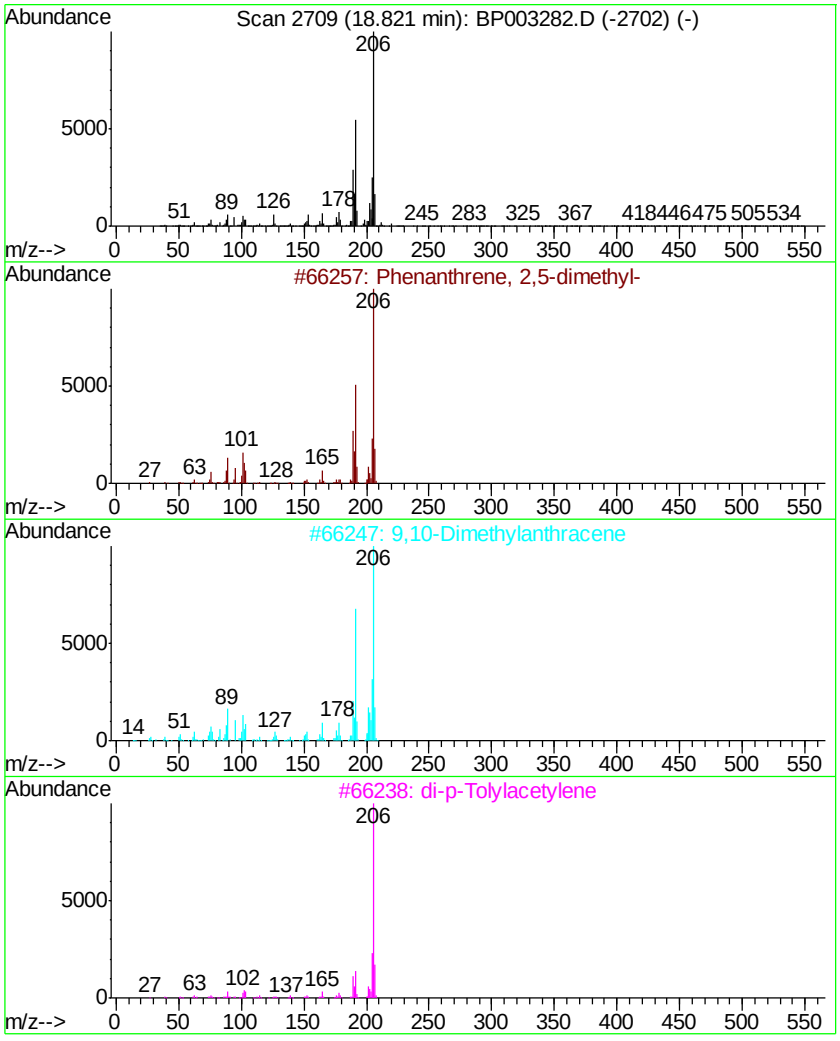
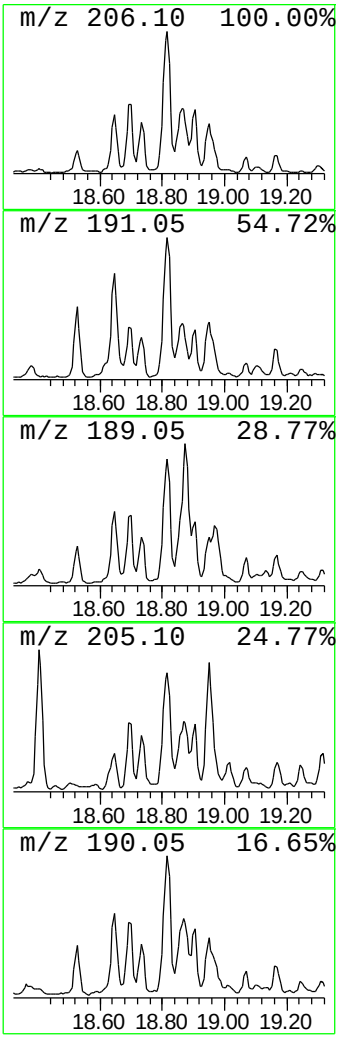
Peak Number 15 Phenanthrene, 2,5-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.82	16.53 ng	1627340	Phenanthrene-d10	17.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87





Library Search Compound Report

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Data File : BP003282.D
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Sample : L3981-08 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B19-4-6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.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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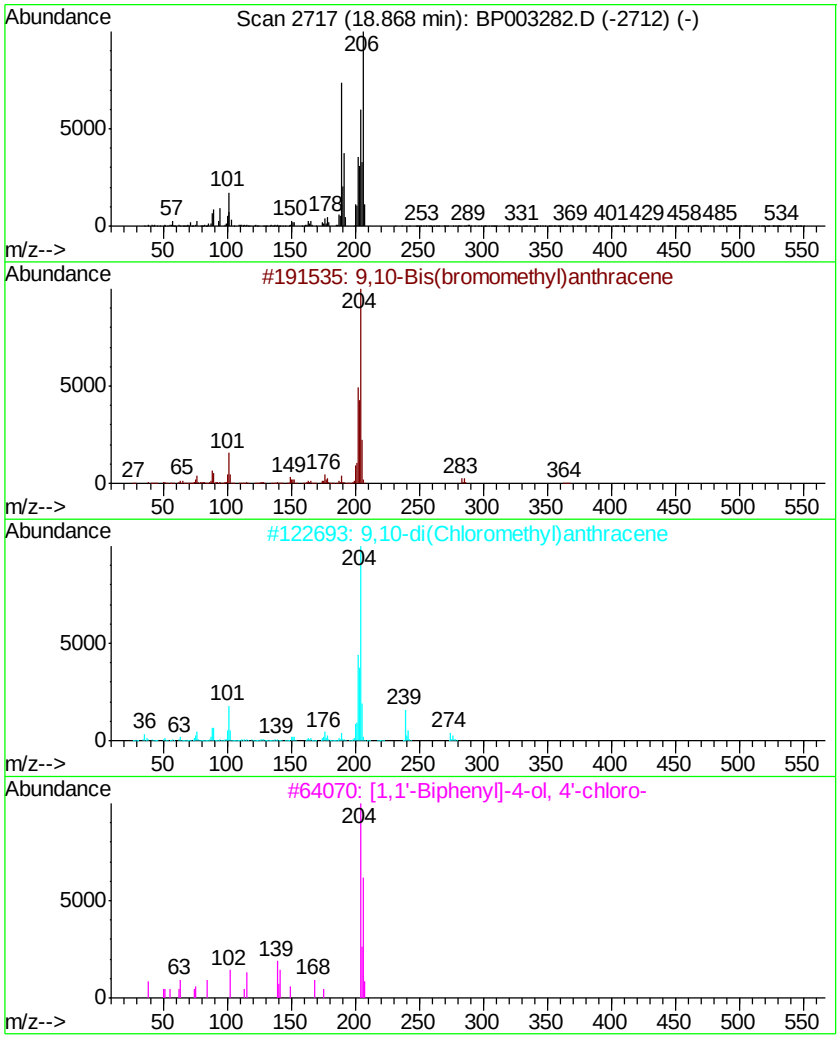
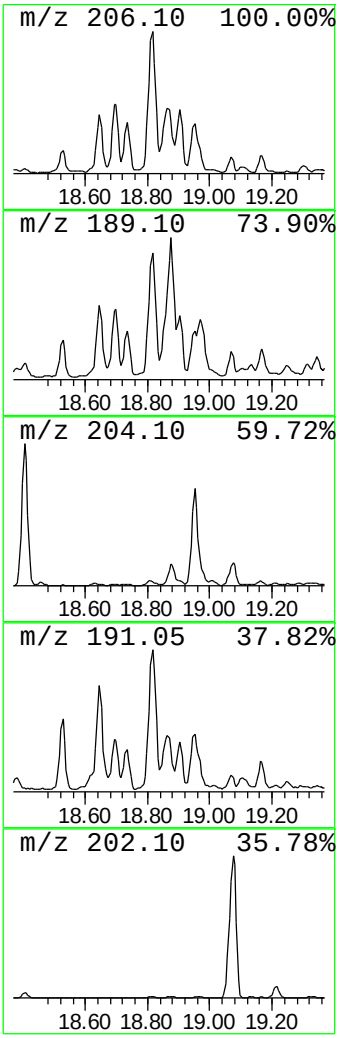
Peak Number 16 unknown18.87 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.87	10.65 ng	1048200	Phenanthrene-d10	17.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	43
2	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	38
3	[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	35
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	30
5	4-(Trifluoromethoxy)benzoic acid	206	C8H5F3O3	000330-12-1	27





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091420\
Data File : BP003282.D
Acq On : 14 Sep 2020 22:55
Operator : CG/JU
Sample : L3981-08 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B19-4-6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.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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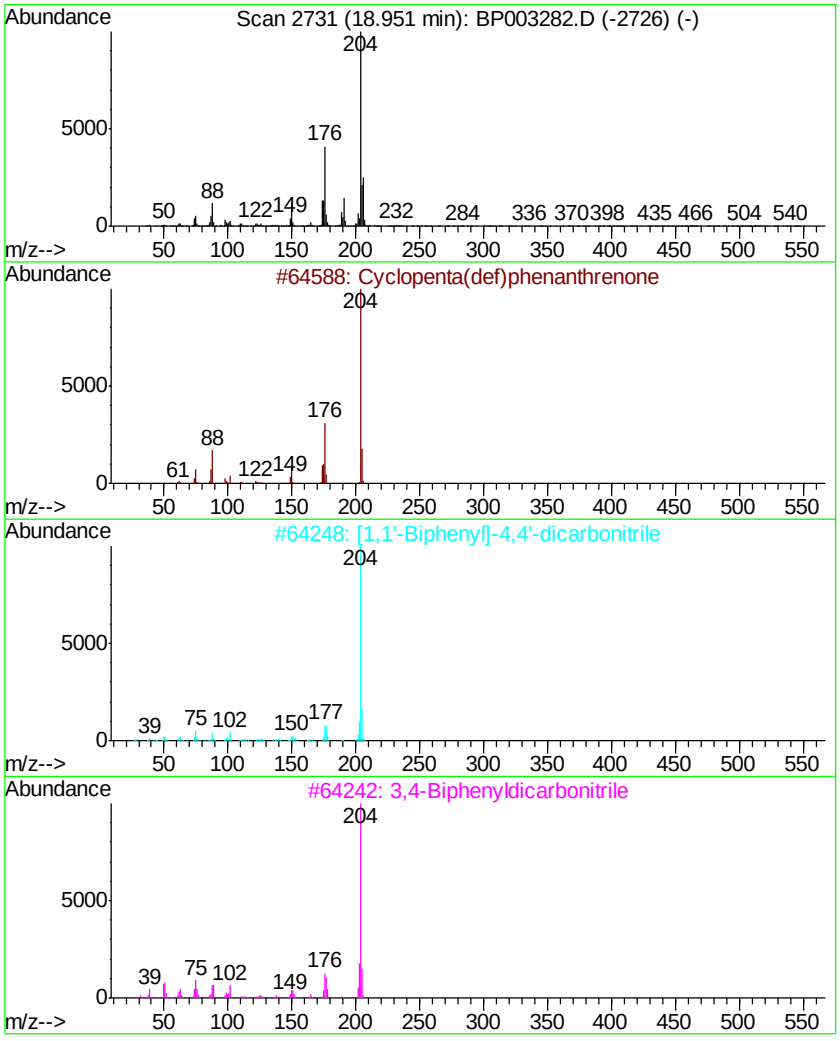
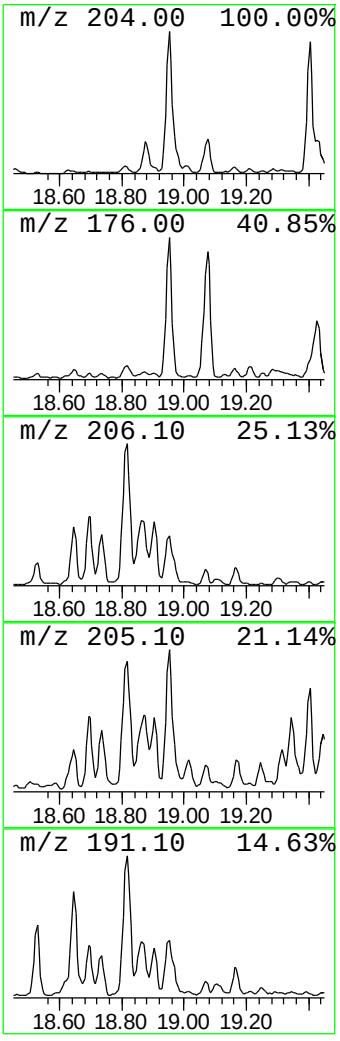
Peak Number 17 Cyclopenta(def)phenanthrenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.95	17.49 ng	1721850	Phenanthrene-d10	17.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	94
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	49
3	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	47
4	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	45
5	[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	43





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091420\
Data File : BP003282.D
Acq On : 14 Sep 2020 22:55
Operator : CG/JU
Sample : L3981-08 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B19-4-6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.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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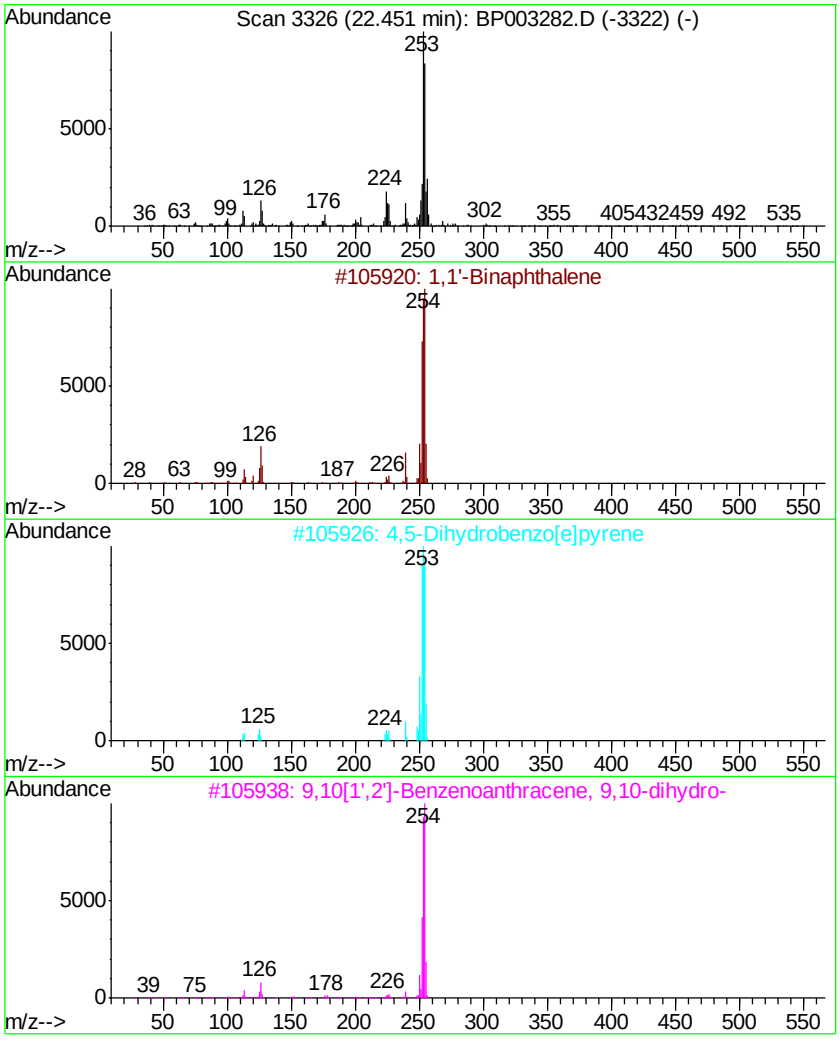
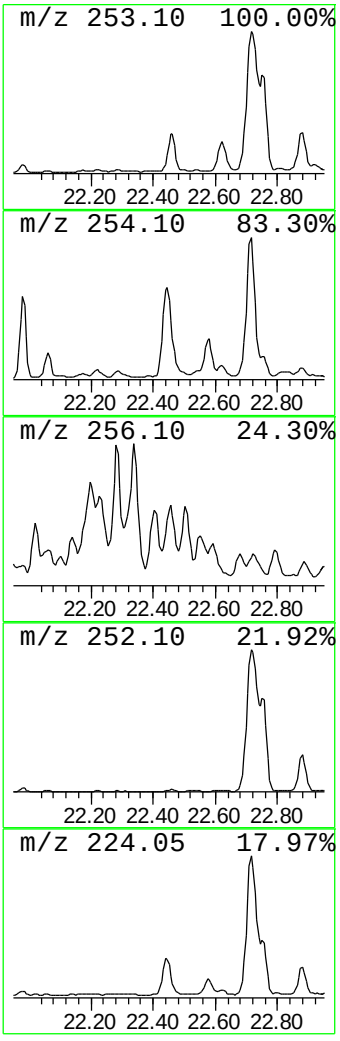
Peak Number 18 1,1'-Binaphthalene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.45	9.23 ng	928463	Perylene-d12	23.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Binaphthalene	254	C20H14	000604-53-5	89
2	4,5-Dihydrobenzo[e]pyrene	254	C20H14	095676-42-9	76
3	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	76
4	3H-Pyrrolo[3,2-f]quinoline, 5-me...	254	C16H18N2O	1000350-44-1	68
5	4,6'-Biazulenyl	254	C20H14	094154-49-1	64





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091420\
Data File : BP003282.D
Acq On : 14 Sep 2020 22:55
Operator : CG/JU
Sample : L3981-08 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B19-4-6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.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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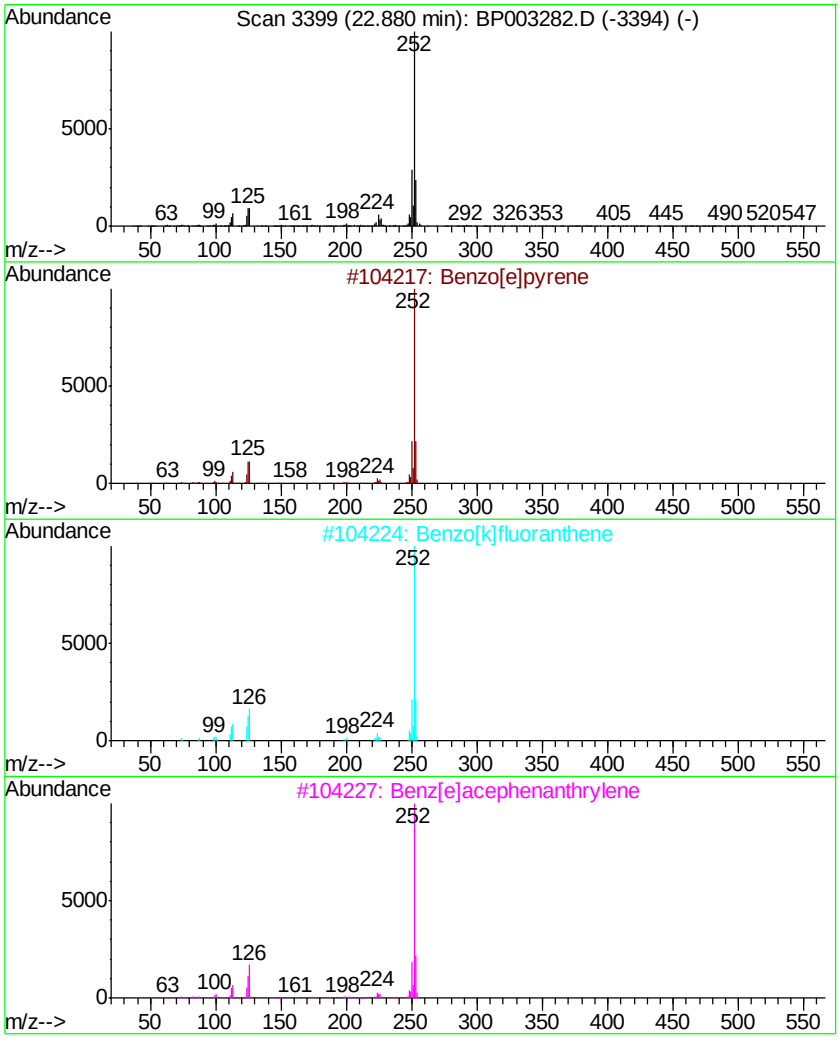
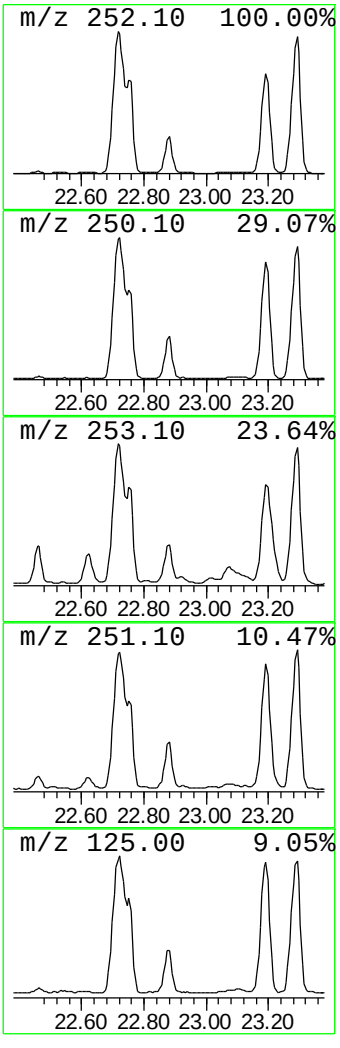
Peak Number 19 Benzo[e]pyrene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.88	16.38 ng	1647790	Perylene-d12	23.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
4	Benzo[a]pyrene	252	C20H12	000050-32-8	91
5	Perylene	252	C20H12	000198-55-0	83





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091420\
Data File : BP003282.D
Acq On : 14 Sep 2020 22:55
Operator : CG/JU
Sample : L3981-08 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B19-4-6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.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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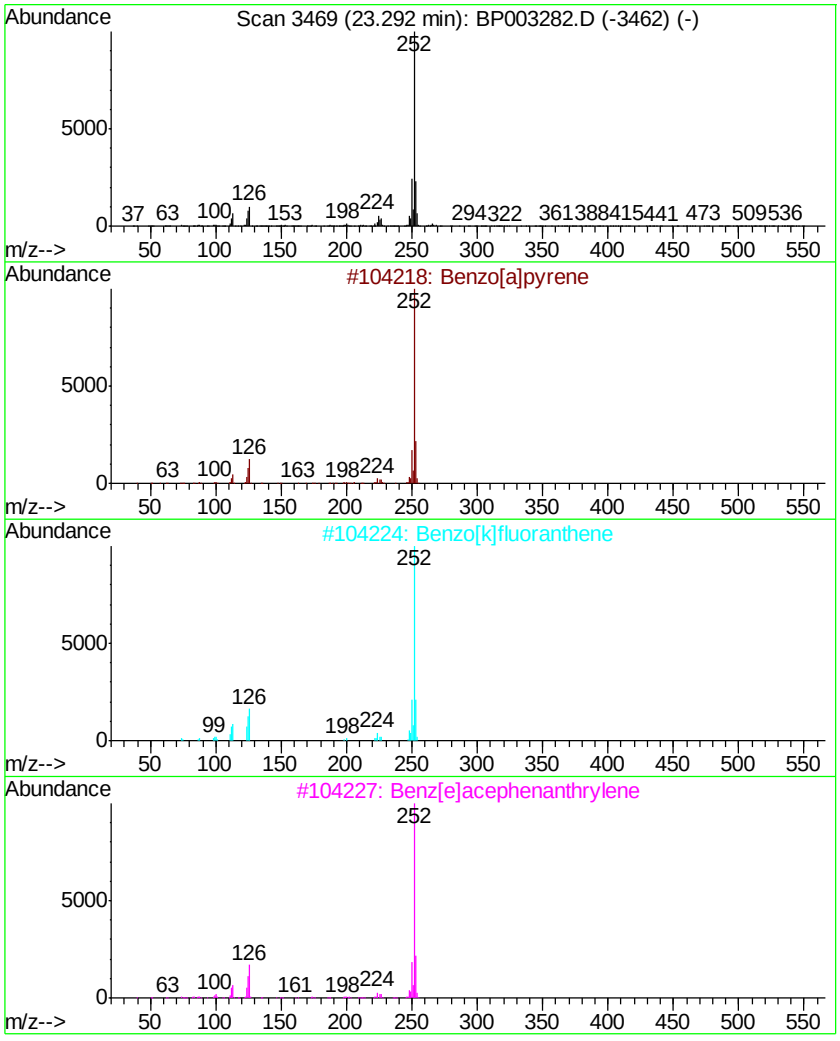
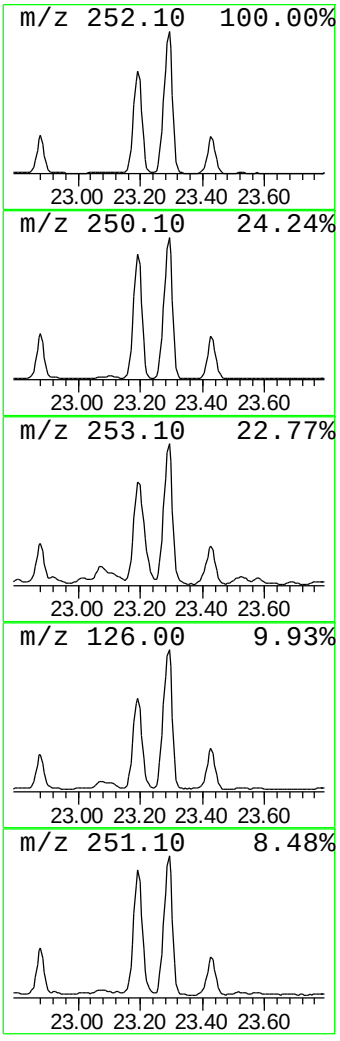
Peak Number 20 Perylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.29	76.89 ng	7736360	Perylene-d12	23.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[a]pyrene	252	C20H12	000050-32-8	95
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Benzo[e]pyrene	252	C20H12	000192-97-2	93
5	Perylene	252	C20H12	000198-55-0	81





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP091420\
Data File : BP003282.D
Acq On : 14 Sep 2020 22:55
Operator : CG/JU
Sample : L3981-08 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B19-4-6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.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
Dibenzofuran, 4-m...	15.64	6.9	ng	692830	3	14.29	1998550	20.0
9H-Fluoren-9-one	16.70	14.5	ng	1428240	4	17.05	1968480	20.0
Anthracene, 1,2,3...	16.79	7.2	ng	704400	4	17.05	1968480	20.0
Naphtho[2,1-b]thi...	16.86	12.1	ng	1190040	4	17.05	1968480	20.0
Dibenzothiophene,...	17.63	7.0	ng	683871	4	17.05	1968480	20.0
Phenanthrene, 2-m...	17.92	27.7	ng	2726850	4	17.05	1968480	20.0
1H-Cyclopropa[l]p...	17.97	33.8	ng	3328530	4	17.05	1968480	20.0
Anthracene, 2-met...	18.05	7.1	ng	699403	4	17.05	1968480	20.0
Benzaldehyde, 3,5...	18.10	40.1	ng	3945180	4	17.05	1968480	20.0
Anthracene, 9-met...	18.15	17.5	ng	1721380	4	17.05	1968480	20.0
5,16[1',2']:8,13[...	18.40	18.6	ng	1830330	4	17.05	1968480	20.0
9,10-Anthracenedione	18.45	26.7	ng	2628600	4	17.05	1968480	20.0
Phenanthrene, 4,5...	18.65	7.4	ng	726508	4	17.05	1968480	20.0
Phenanthrene, 2,5...	18.82	16.5	ng	1627340	4	17.05	1968480	20.0
unknown18.87	18.87	10.7	ng	1048200	4	17.05	1968480	20.0
Cyclopenta(def)ph...	18.95	17.5	ng	1721850	4	17.05	1968480	20.0
1,1'-Binaphthalene	22.45	9.2	ng	928463	6	23.38	2012430	20.0
Benzo[e]pyrene	22.88	16.4	ng	1647790	6	23.38	2012430	20.0
Perylene	23.29	76.9	ng	7736360	6	23.38	2012430	20.0