LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083120\
Data File : BF121488.D
Acq On : 31 Aug 2020 20:33
Operator : JU/CG
Sample : L3847-07
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-A

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_F\METHODS\8270-BF082720.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	2.146	5	10	28	rVB	1494429	2072226	13.50%	0.943%
2	5.475	571	576	579	rBV	4325431	4026780	26.24%	1.832%
3	6.486	743	748	761	rVB	4055429	4226920	27.55%	1.923%
4	6.863	808	812	815	rBV	2159869	1767662	11.52%	0.804%
5	7.422	899	907	910	rBV	3351342	2861747	18.65%	1.302%
6	8.145	1025	1030	1032	rBV	2686089	2351277	15.32%	1.070%
7	8.163	1032	1033	1037	rVB	1373793	1076379	7.01%	0.490%
8	8.857	1147	1151	1156	rVB	813993	643922	4.20%	0.293%
9	8.957	1163	1168	1172	rVB	612342	514649	3.35%	0.234%
10	9.222	1208	1213	1216	rBV	6329493	5180596	33.76%	2.357%
11	9.486	1251	1258	1262	rBV	257545	359468	2.34%	0.164%
12	9.557	1266	1270	1272	rVV	517640	477179	3.11%	0.217%
13	9.757	1298	1304	1309	rBV	638274	594174	3.87%	0.270%
14	9.898	1322	1328	1331	rBV	2776974	2552757	16.64%	1.161%
15	9.933	1331	1334	1337	rVB	1353787	1104403	7.20%	0.502%
16	10.104	1359	1363	1367	rVV	1320967	1165959	7.60%	0.530%
17	10.445	1417	1421	1426	rBV	1913465	1588317	10.35%	0.723%
18	10.604	1445	1448	1453	rVV	486427	484566	3.16%	0.220%
19	10.686	1457	1462	1466	rVV	3673404	3334750	21.73%	1.517%
20	10.810	1478	1483	1490	rVB3	345758	418267	2.73%	0.190%
21	10.992	1508	1514	1517	rBV3	447582	661635	4.31%	0.301%
22	11.121	1531	1536	1538	rVV2	279159	379732	2.47%	0.173%
23	11.145	1538	1540	1544	rVV2	385366	402950	2.63%	0.183%
24	11.192	1544	1548	1552	rVV	832739	833260	5.43%	0.379%
25	11.233	1552	1555	1560	rVV4	338012	571250	3.72%	0.260%
26	11.280	1560	1563	1569	rVB	1176899	1114840	7.27%	0.507%
27	11.386	1575	1581	1583	rBV	2100483	2468984	16.09%	1.123%
28	11.421	1583	1587	1589	rVV	10453674	11512129	75.02%	5.237%
29	11.463	1589	1594	1597	rVV	3380151	3051937	19.89%	1.388%
30	11.492	1597	1599	1602	rVV2	454235	418017	2.72%	0.190%
31	11.616	1614	1620	1622	rBV2	1821805	1739053	11.33%	0.791%
32	11.680	1629	1631	1634	rVV	481107	431733	2.81%	0.196%
33	11.716	1634	1637	1642	rVB3	682450	612008	3.99%	0.278%
34	11.892	1661	1667	1669	rBV	2511355	2520650	16.43%	1.147%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083120\
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Operator : JU/CG
Sample : L3847-07
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-A

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

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Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.916	1669	1671	1675	rVV	3526809	3319562	21.63%	1.510%
36	11.963	1676	1679	1682	rVV	1035533	902545	5.88%	0.411%
37	12.004	1682	1686	1688	rVV2	3417100	3944348	25.71%	1.794%
38	12.021	1688	1689	1693	rVB	1943866	1458641	9.51%	0.664%
39	12.186	1714	1717	1719	rVV	1689109	1533237	9.99%	0.697%
40	12.210	1719	1721	1725	rVB2	2017577	1683408	10.97%	0.766%
41	12.333	1737	1742	1745	rBV2	813268	1016034	6.62%	0.462%
42	12.363	1745	1747	1749	rBV	576126	421596	2.75%	0.192%
43	12.386	1749	1751	1754	rVB2	574696	484855	3.16%	0.221%
44	12.439	1754	1760	1763	rBV	1825530	2272608	14.81%	1.034%
45	12.480	1763	1767	1769	rBV	728872	708967	4.62%	0.323%
46	12.527	1772	1775	1780	rVB2	1342873	1589187	10.36%	0.723%
47	12.616	1784	1790	1793	rVB	10478637	13659953	89.02%	6.214%
48	12.651	1793	1796	1797	rBV	376635	361415	2.36%	0.164%
49	12.668	1797	1799	1802	rVB2	455263	377787	2.46%	0.172%
50	12.698	1802	1804	1807	rVB	421730	346109	2.26%	0.157%
51	12.739	1807	1811	1812	rBV3	674872	763126	4.97%	0.347%
52	12.845	1822	1829	1832	rBV2	9891086	15344494	100.00%	6.980%
53	12.880	1832	1835	1840	rVB2	965946	1285236	8.38%	0.585%
54	12.951	1840	1847	1848	rBV2	1121760	1214053	7.91%	0.552%
55	12.974	1848	1851	1858	rVB2	4805158	5577110	36.35%	2.537%
56	13.051	1858	1864	1867	rBV2	1601604	2581186	16.82%	1.174%
57	13.080	1867	1869	1871	rVB	447977	342230	2.23%	0.156%
58	13.110	1871	1874	1875	rBV2	344091	374309	2.44%	0.170%
59	13.139	1875	1879	1880	rVV3	1178122	1383084	9.01%	0.629%
60	13.163	1880	1883	1885	rVB	2374428	2279336	14.85%	1.037%
61	13.227	1891	1894	1896	rVV	1445181	1168796	7.62%	0.532%
62	13.263	1896	1900	1903	rVV2	2084183	2192335	14.29%	0.997%
63	13.357	1913	1916	1918	rBV	1577895	1235673	8.05%	0.562%
64	13.386	1918	1921	1924	rVB	1454649	1251122	8.15%	0.569%
65	13.457	1931	1933	1939	rVB5	452933	696682	4.54%	0.317%
66	13.563	1944	1951	1953	rBV5	546912	1224352	7.98%	0.557%
67	13.668	1965	1969	1973	rVB	1871986	1898960	12.38%	0.864%
68	13.780	1983	1988	1991	rBV2	1785385	2499338	16.29%	1.137%
69	13.810	1991	1993	1995	rVV	1668857	1248059	8.13%	0.568%
70	13.833	1995	1997	2001	rVV2	1272637	1423372	9.28%	0.648%
71	13.874	2001	2004	2011	rVB2	2530372	2832550	18.46%	1.289%

LSC Area Percent Report

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Sample : L3847-07
Misc :
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Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-A

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

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Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.027	2023	2030	2033	rBV2	7007076	10911176	71.11%	4.964%
73	14.068	2033	2037	2043	rVB	7241929	8322027	54.23%	3.786%
74	14.121	2043	2046	2047	rBV2	412128	389126	2.54%	0.177%
75	14.139	2047	2049	2051	rBV	741806	550236	3.59%	0.250%
76	14.257	2065	2069	2072	rBV2	850563	1135707	7.40%	0.517%
77	14.286	2072	2074	2077	rVB	525030	447757	2.92%	0.204%
78	14.351	2082	2085	2088	rBV4	342452	495452	3.23%	0.225%
79	14.380	2088	2090	2092	rVV	506896	487858	3.18%	0.222%
80	14.421	2092	2097	2099	rVV	2134798	2471196	16.10%	1.124%
81	14.451	2099	2102	2106	rVV2	1497792	1532735	9.99%	0.697%
82	14.509	2106	2112	2115	rVV4	1018481	1752598	11.42%	0.797%
83	14.545	2115	2118	2120	rVV	1238546	1266709	8.26%	0.576%
84	14.562	2120	2121	2125	rVB2	934602	639907	4.17%	0.291%
85	14.809	2160	2163	2166	rBV3	340800	424301	2.77%	0.193%
86	14.839	2166	2168	2172	rVB2	467771	500022	3.26%	0.227%
87	15.092	2204	2211	2213	rBV	5528239	10135701	66.05%	4.611%
88	15.186	2224	2227	2231	rVB	1403187	1462162	9.53%	0.665%
89	15.280	2239	2243	2244	rBV2	316841	439690	2.87%	0.200%
90	15.392	2256	2262	2267	rVB	3672791	5467888	35.63%	2.487%
91	15.462	2267	2274	2278	rVB	4981066	7164322	46.69%	3.259%
92	15.509	2278	2282	2285	rBV	1369929	1971569	12.85%	0.897%
93	15.545	2285	2288	2294	rVB2	1808351	2524433	16.45%	1.148%
94	16.074	2375	2378	2383	rVB2	355536	448937	2.93%	0.204%
95	16.798	2497	2501	2503	rBV	276149	465100	3.03%	0.212%
96	16.998	2527	2535	2542	rVB2	2374374	5075645	33.08%	2.309%
97	17.162	2558	2563	2568	rBV	474074	933916	6.09%	0.425%
98	17.221	2569	2573	2577	rVV2	372569	647803	4.22%	0.295%
99	17.445	2602	2611	2618	rVB	1791663	4076426	26.57%	1.854%
100	17.662	2643	2648	2662	rVB2	510756	1264595	8.24%	0.575%

Sum of corrected areas: 219820825

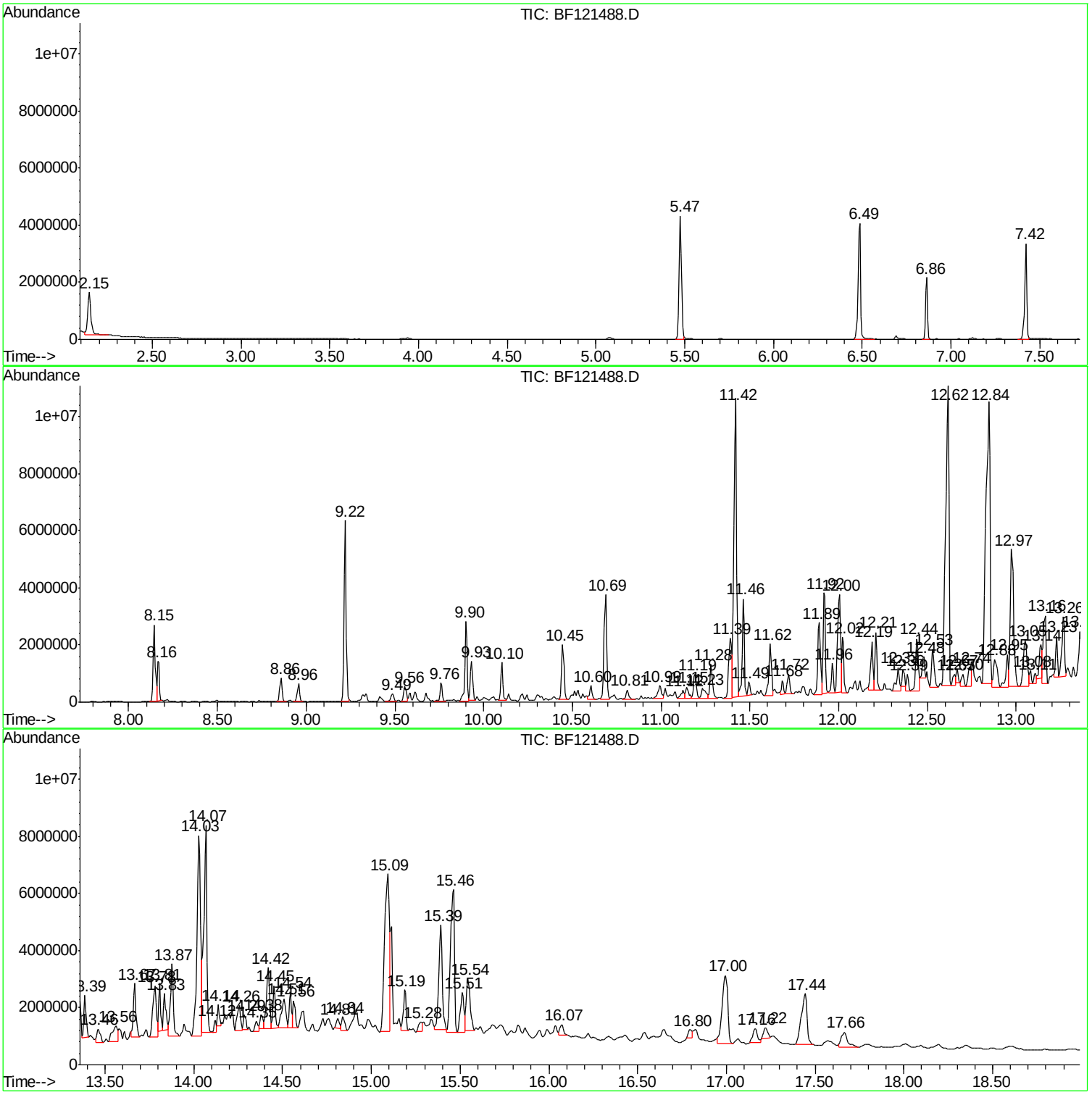
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083120\
Data File : BF121488.D
Acq On : 31 Aug 2020 20:33
Operator : JU/CG
Sample : L3847-07
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.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 F\DATA\BF083120\
Data File : BF121488.D
Acq On : 31 Aug 2020 20:33
Operator : JU/CG
Sample : L3847-07
Misc :
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Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

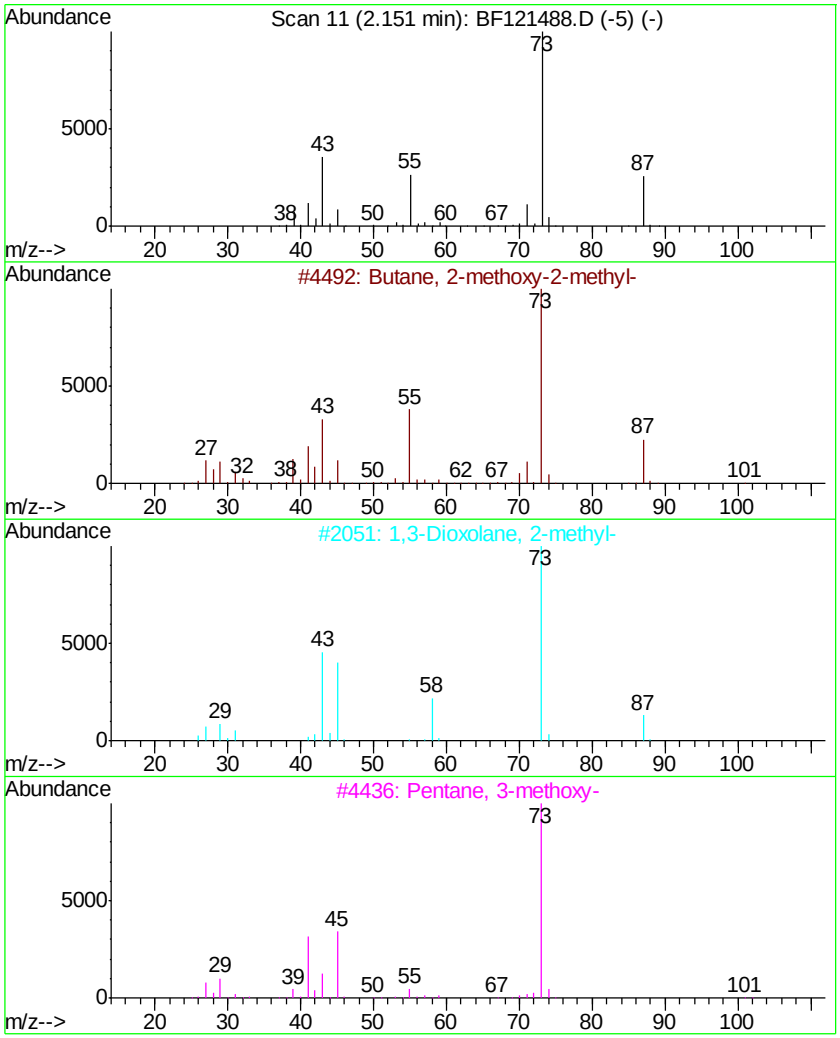
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

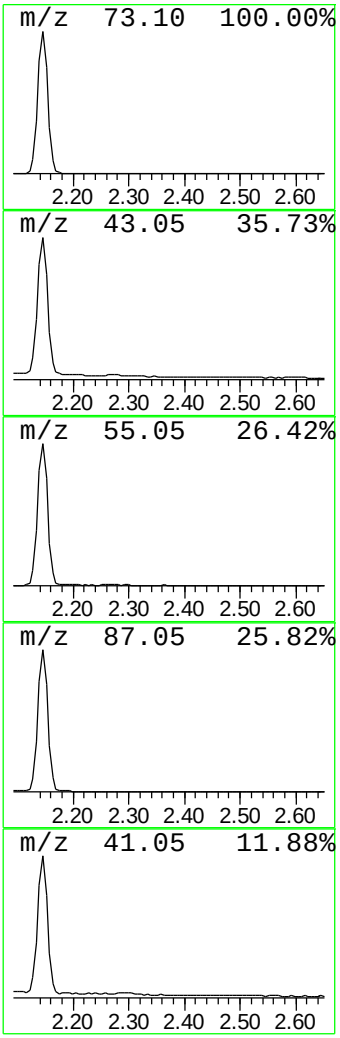
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.15	23.45 ng	2072230	1,4-Dichlorobenzene-d4	6.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	37
3	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17
4	Silane, tetramethyl-	88	C4H12Si	000075-76-3	12
5	N-Ethylformamide	73	C3H7NO	000627-45-2	9





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Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

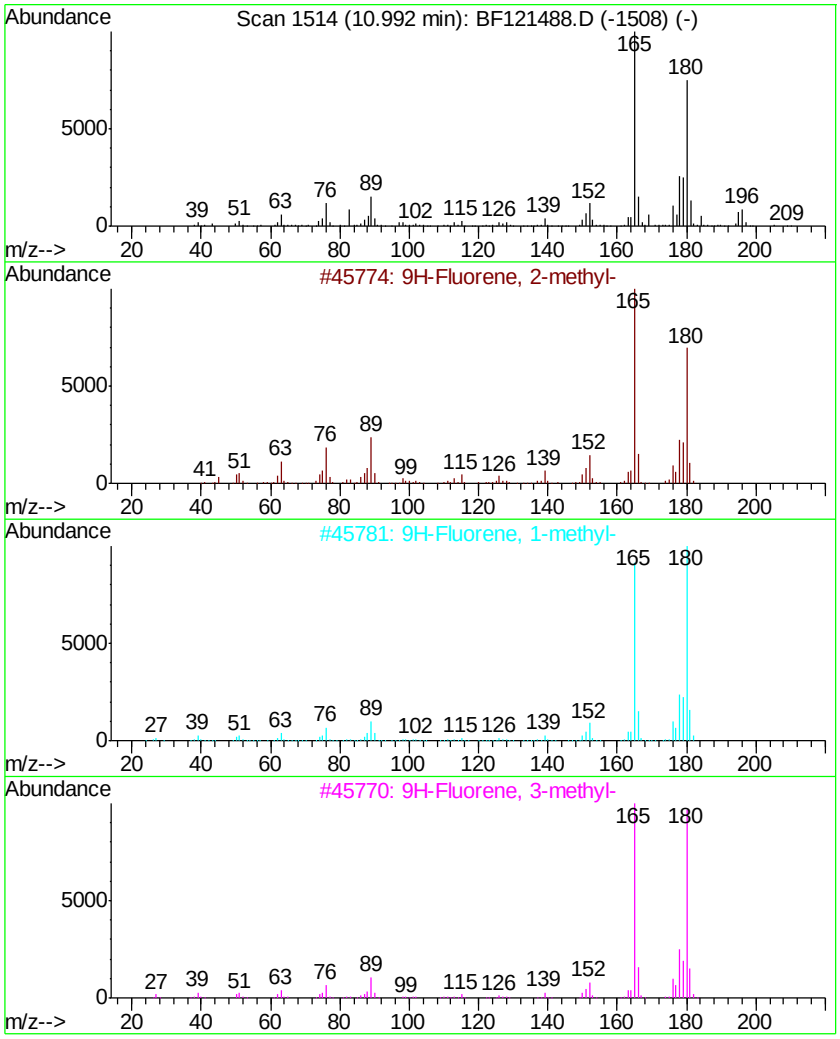
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

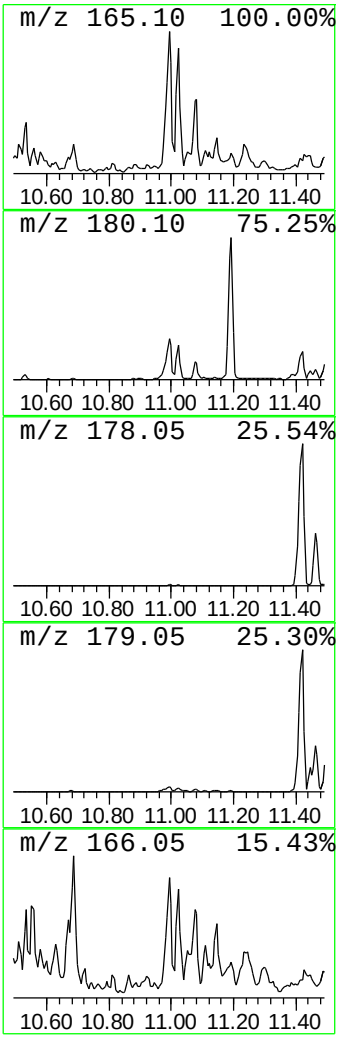
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.99	5.36 ng	661635	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	97
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	95
4	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	90
5	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	76





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Instrument : BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.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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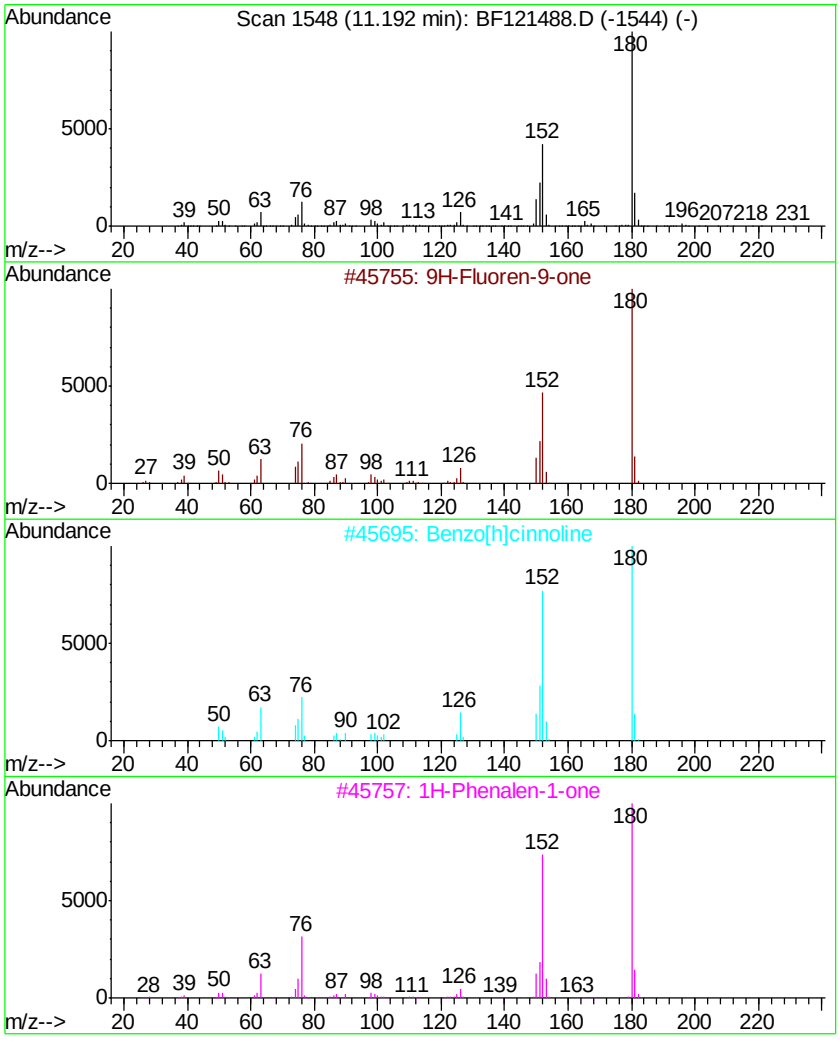
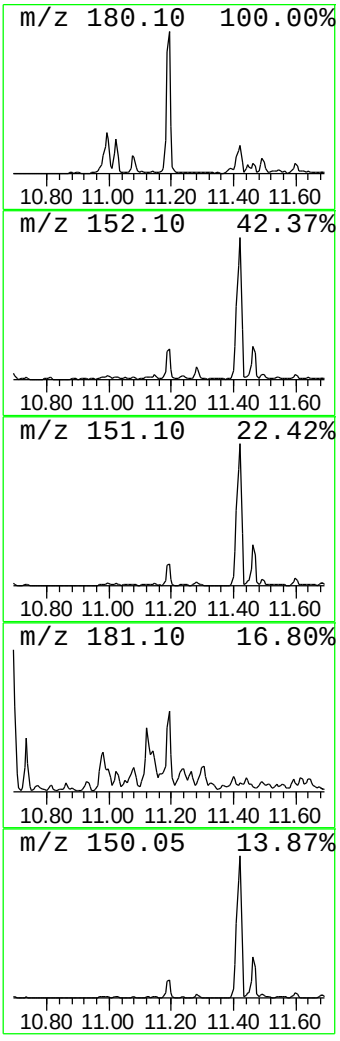
Peak Number 3 9H-Fluoren-9-one Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.19	6.75 ng	833260	Phenanthrene-d10	11.39

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	1H-Phenalen-1-one	180	C13H8O	000548-39-0	64
4	1H-1,2,4-Triazole, 3-(5-nitro-2-...	180	C6H4N4O3	005019-55-6	43
5	2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	42





Library Search Compound Report

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Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

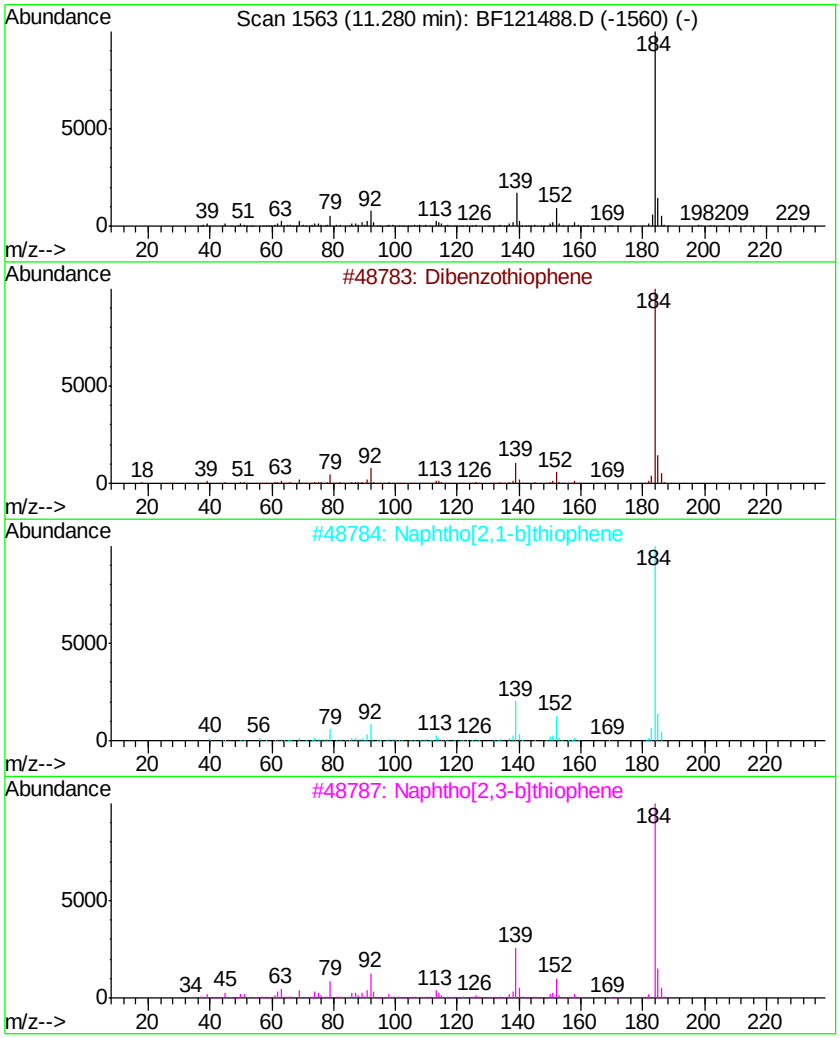
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

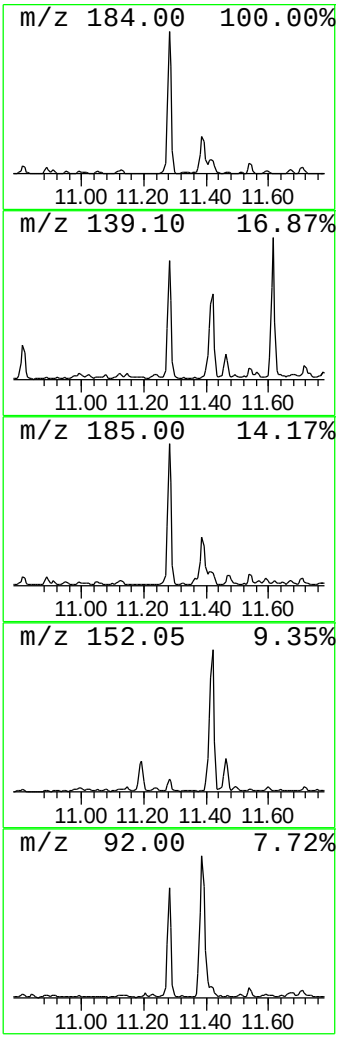
****

Peak Number 4 Dibenzothiophene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.28	9.03 ng	1114840	Phenanthrene-d10	11.39

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	95
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
4	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90
5	1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	72





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083120\
Data File : BF121488.D
Acq On : 31 Aug 2020 20:33
Operator : JU/CG
Sample : L3847-07
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

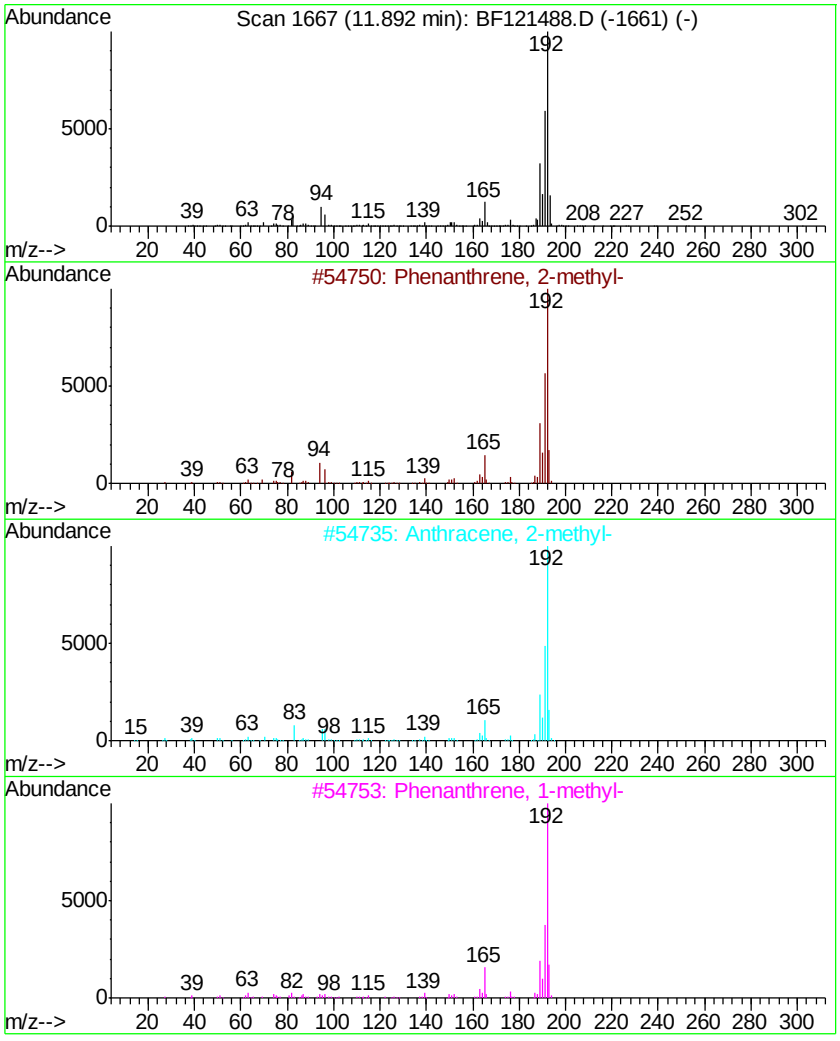
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

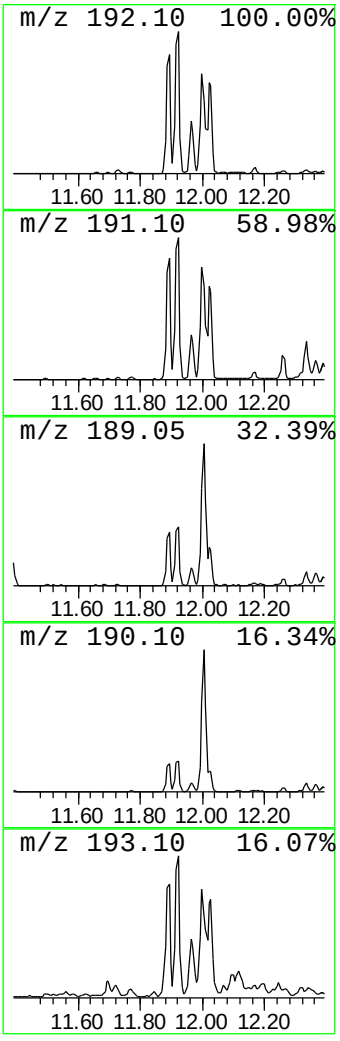
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	20.42 ng	2520650	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93





Library Search Compound Report

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Acq On : 31 Aug 2020 20:33
Operator : JU/CG
Sample : L3847-07
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.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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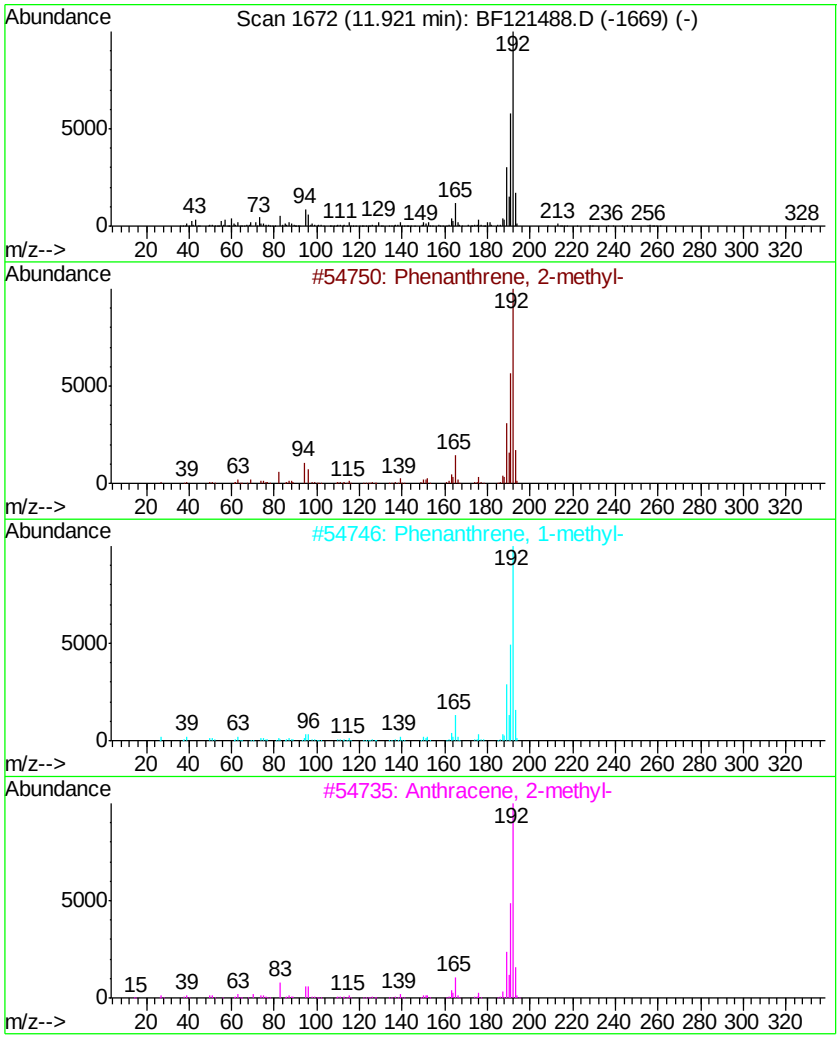
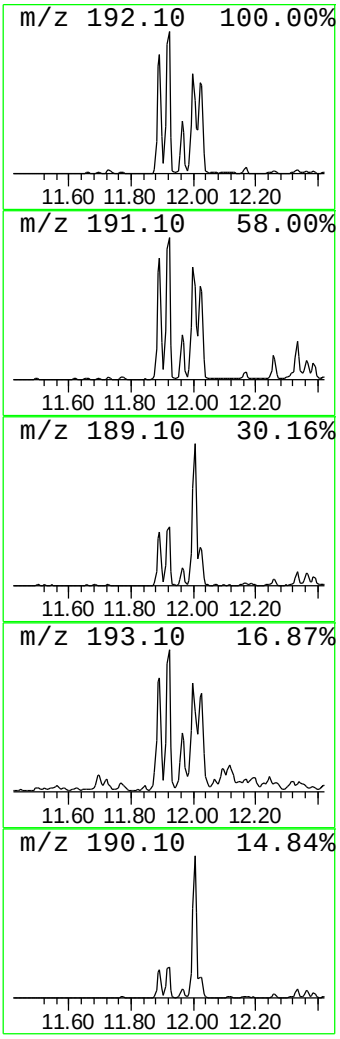
Peak Number 6 Phenanthrene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	26.89 ng	3319560	Phenanthrene-d10	11.39

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	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	94





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ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.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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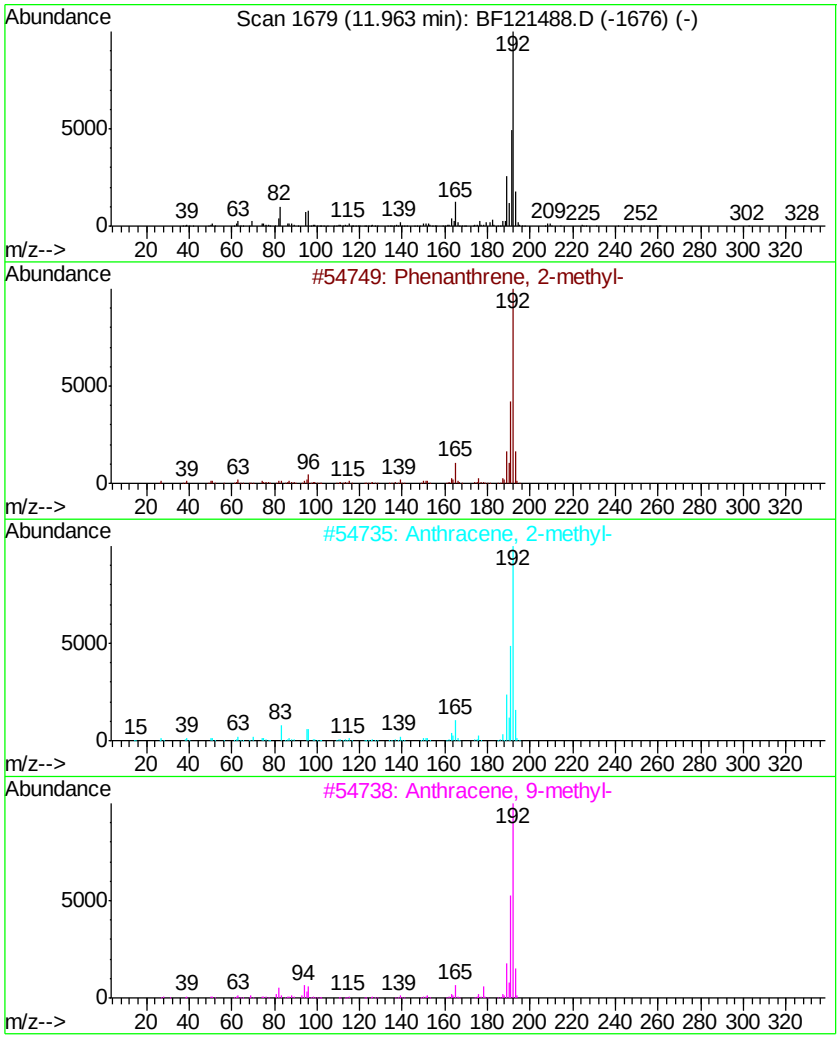
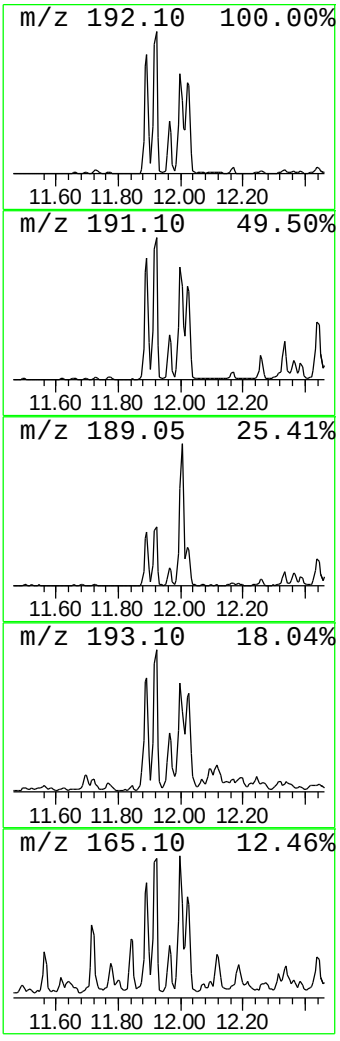
Peak Number 7 Anthracene, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	7.31 ng	902545	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95
4	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	94
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94





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Sample : L3847-07
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-A

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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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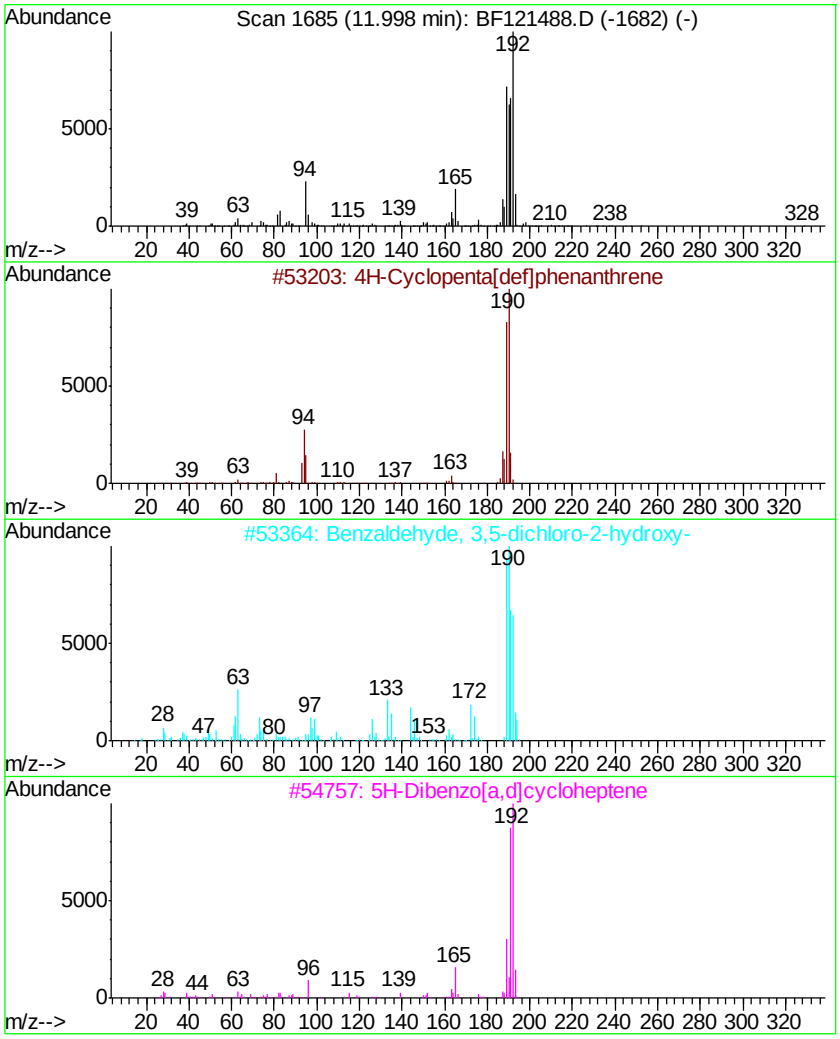
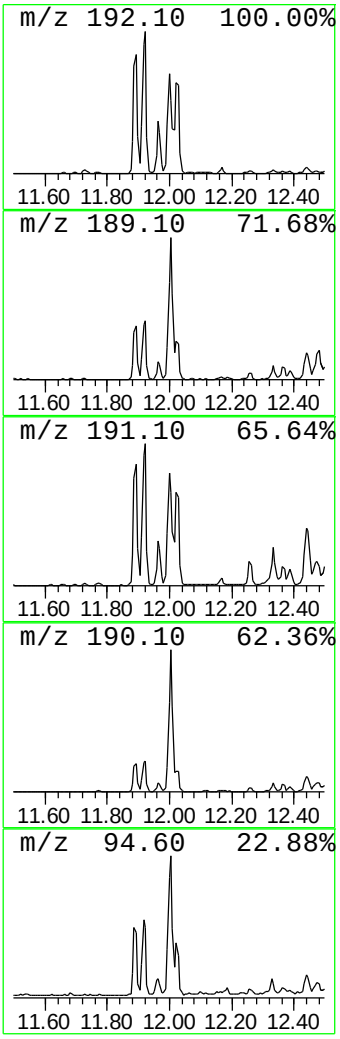
Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	31.95 ng	3944350	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	72
3	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	30
4	Benzene, 1,1'-(1,2-propadienylid...	192	C15H12	014251-57-1	25
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	25





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Operator : JU/CG
Sample : L3847-07
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-A

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

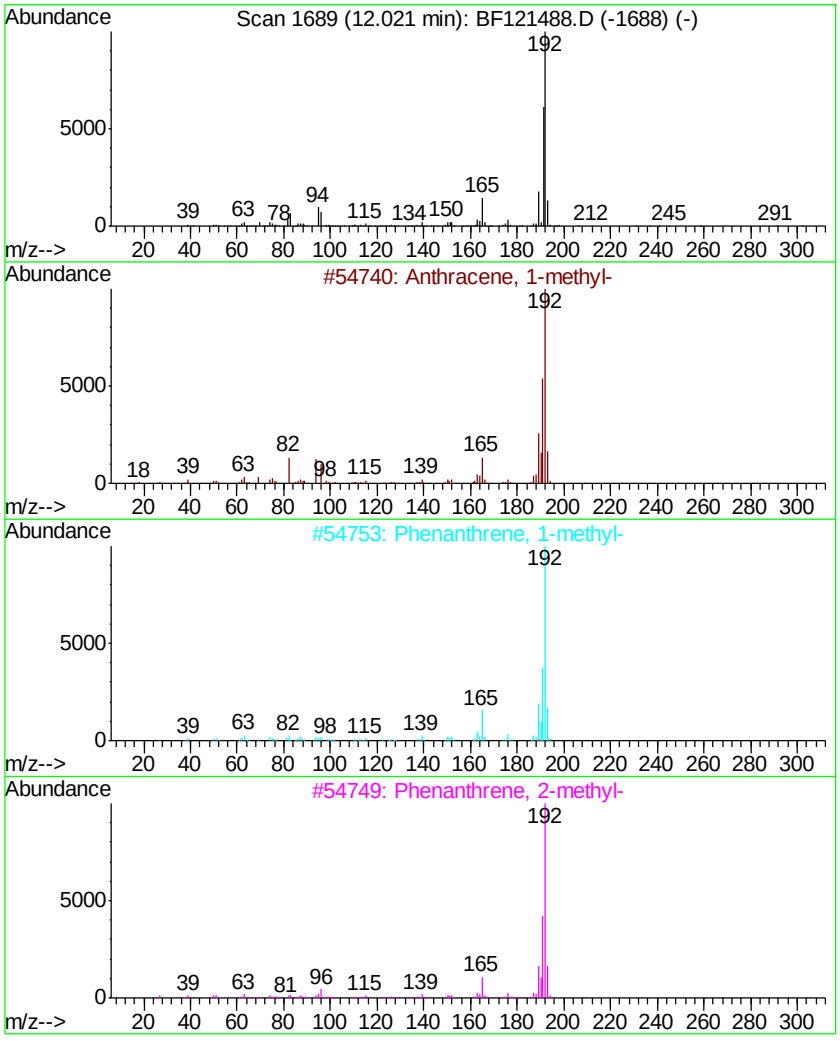
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

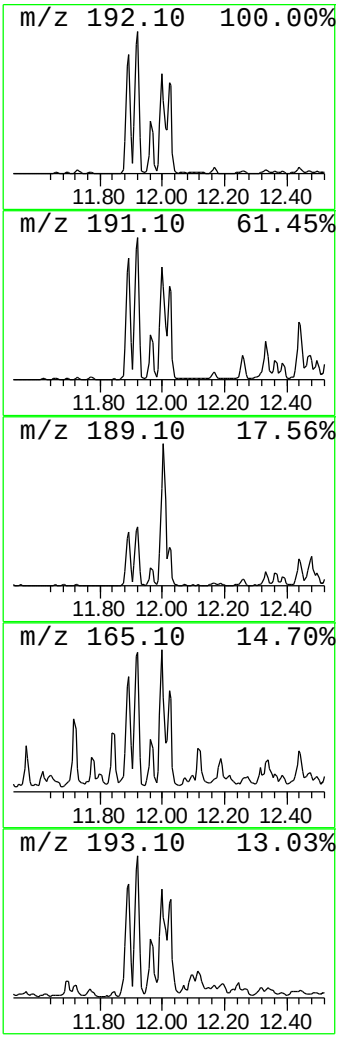
****

Peak Number 9 Anthracene, 1-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.02	11.82 ng	1458640	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	92
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	92
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	91
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	90





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Operator : JU/CG
Sample : L3847-07
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.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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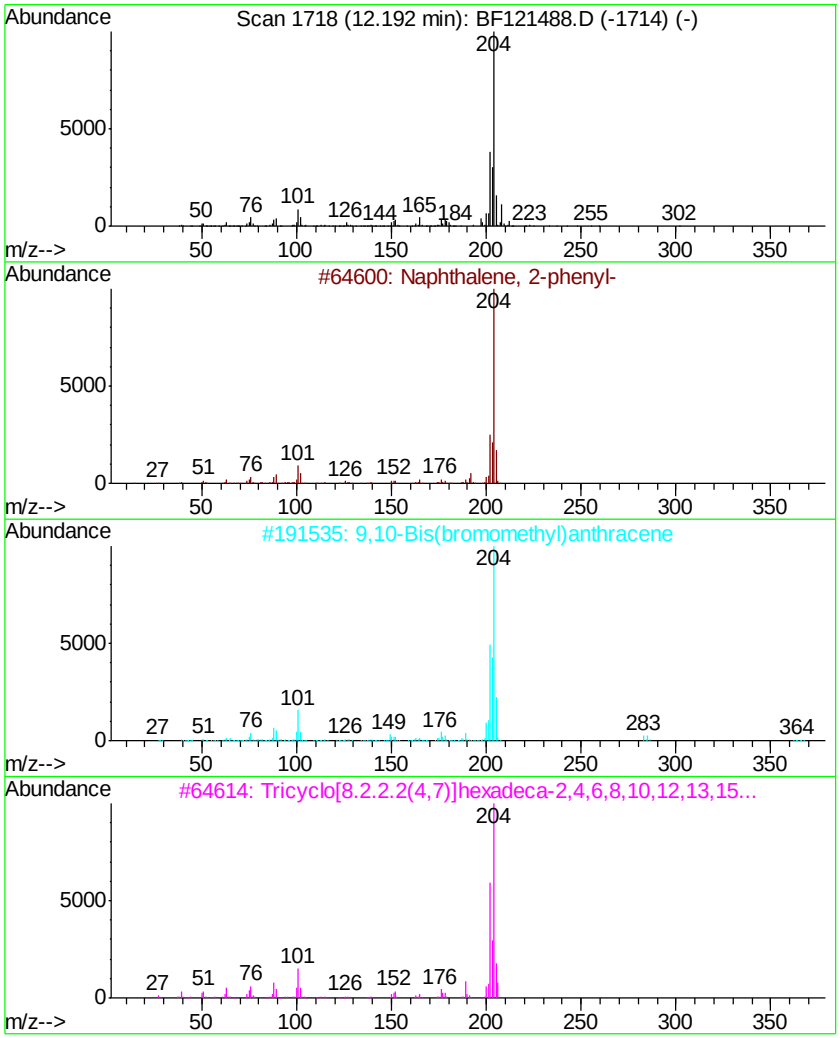
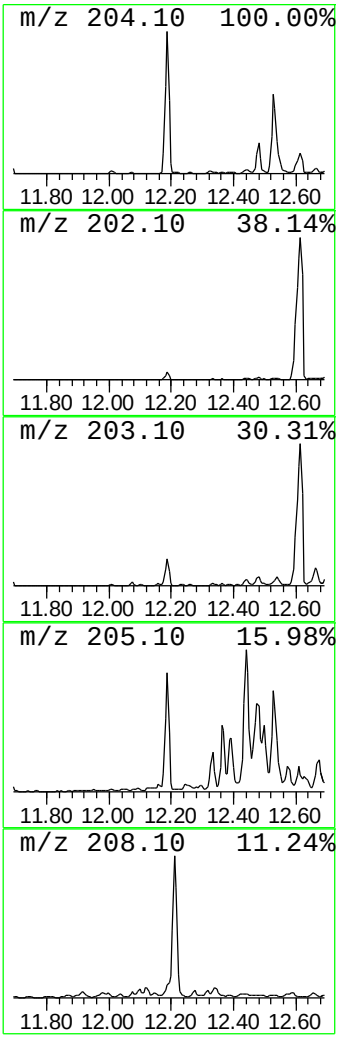
Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.19	12.42 ng	1533240	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
2	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	64
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	62
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	49
5	[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	47





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Acq On : 31 Aug 2020 20:33
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Sample : L3847-07
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-A

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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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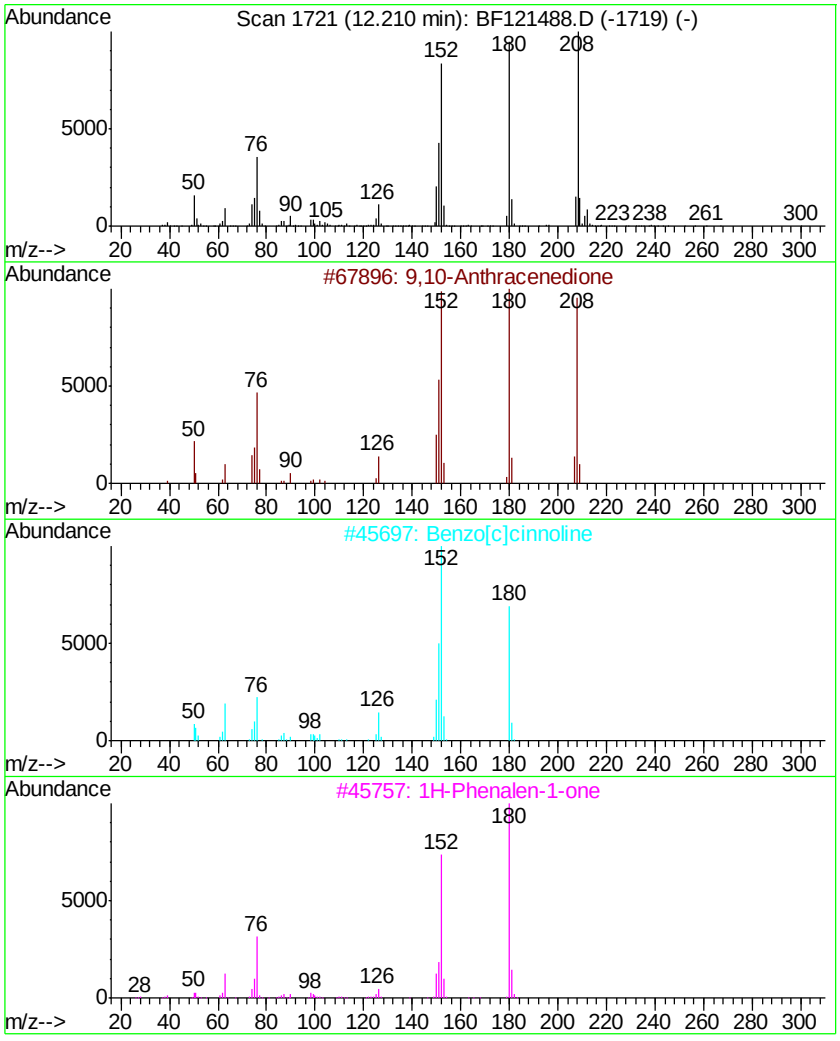
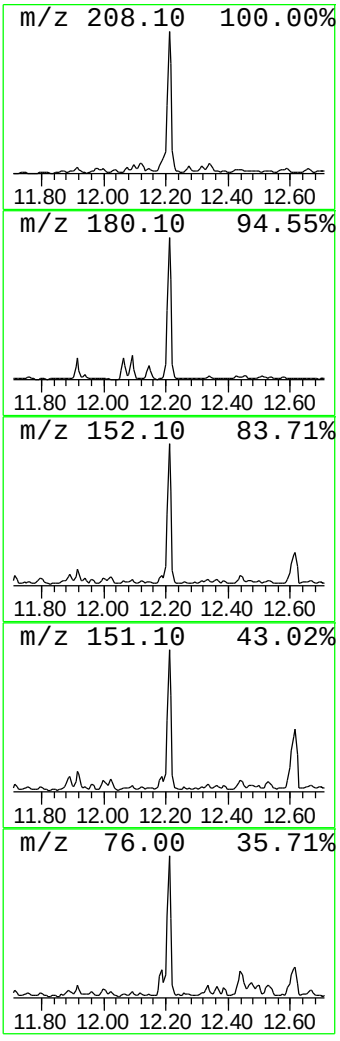
Peak Number 11 9,10-Anthracenedione Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.21	13.64 ng	1683410	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	64
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
4	1,4-Anthracenedione	208	C14H8O2	000635-12-1	58
5	9H-Fluoren-9-one	180	C13H8O	000486-25-9	50





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Sample : L3847-07
Misc :
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Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-A

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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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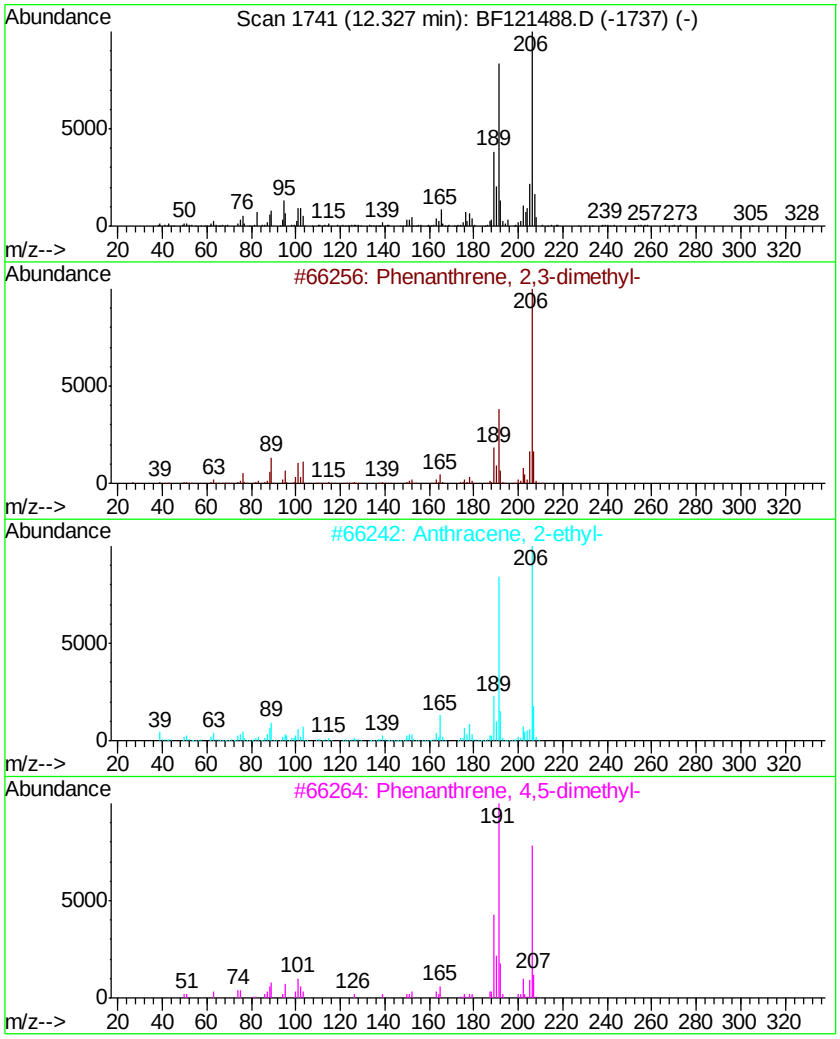
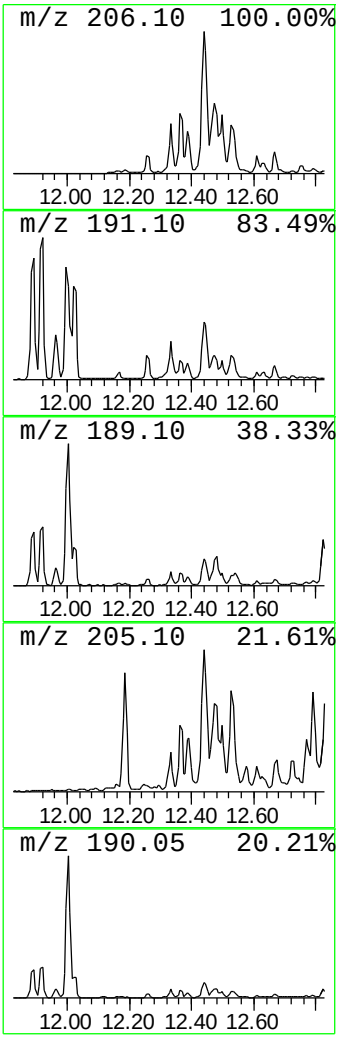
Peak Number 12 Phenanthrene, 2,3-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.33	8.23 ng	1016030	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	94
2	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	93
3	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
4	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	72
5	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	72





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Sample : L3847-07
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-A

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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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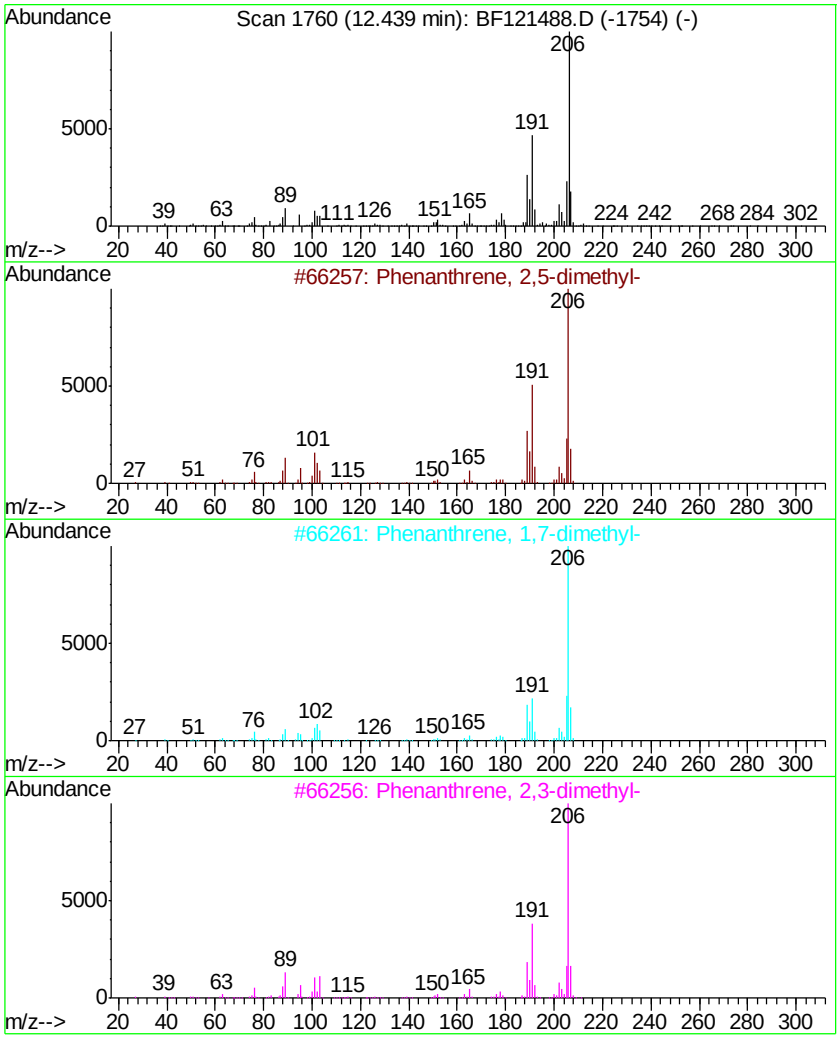
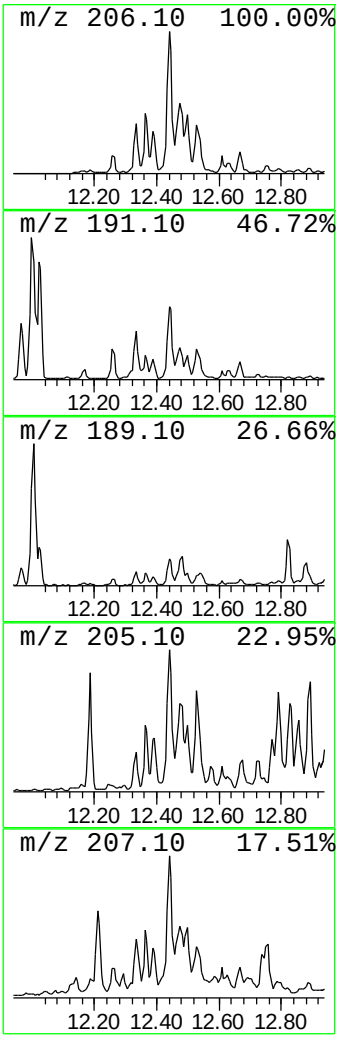
Peak Number 13 Phenanthrene, 2,5-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.44	18.41 ng	2272610	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	98
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91





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Sample : L3847-07
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-A

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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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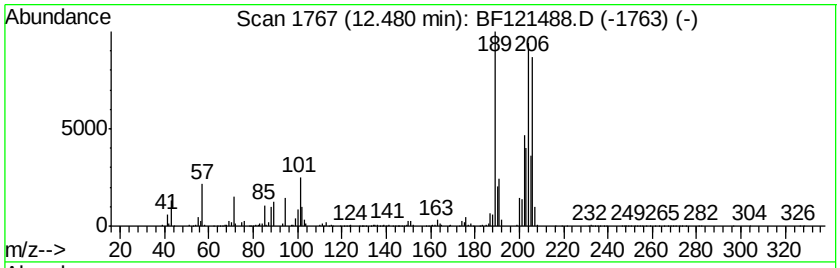
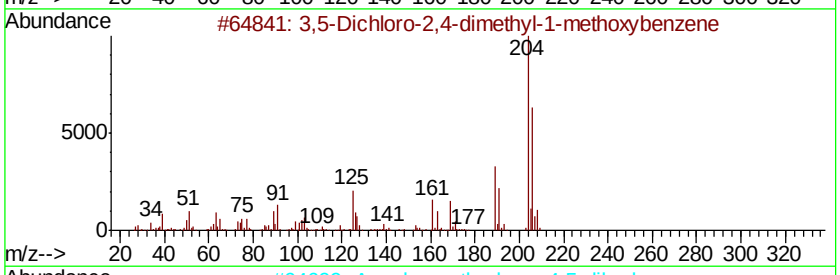
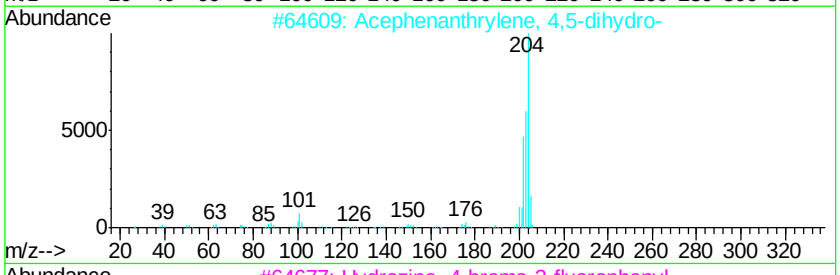
Peak Number 14 unknown12.48 Concentration Rank 19

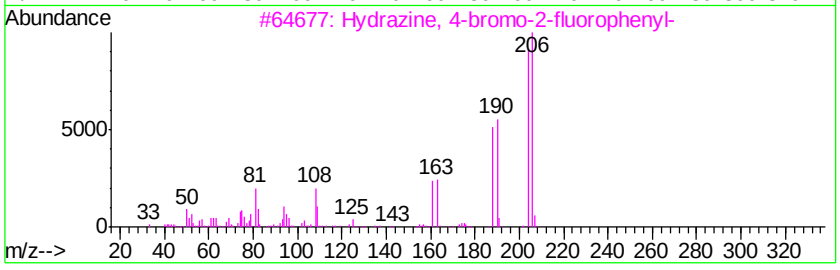
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.48	5.74 ng	708967	Phenanthrene-d10	11.39

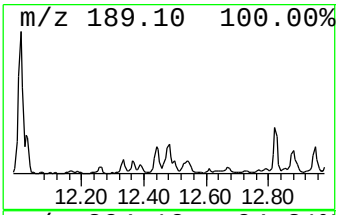
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,5-Dichloro-2,4-dimethyl-1-meth...	204	C9H10Cl2O	1000250-17-8	43
2	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	38
3	Hydrazine, 4-bromo-2-fluorophenyl-	204	C6H6BrFN2	299440-17-8	35
4	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	35
5	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	30

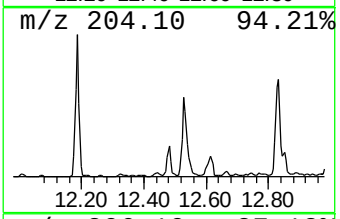


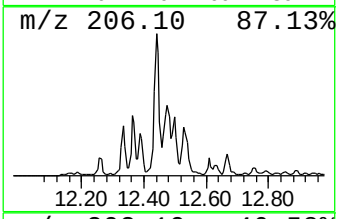


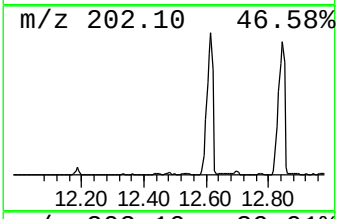


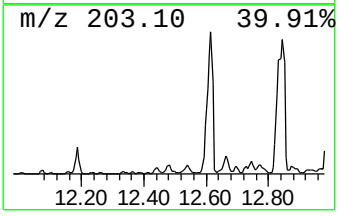












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Operator : JU/CG
Sample : L3847-07
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-A

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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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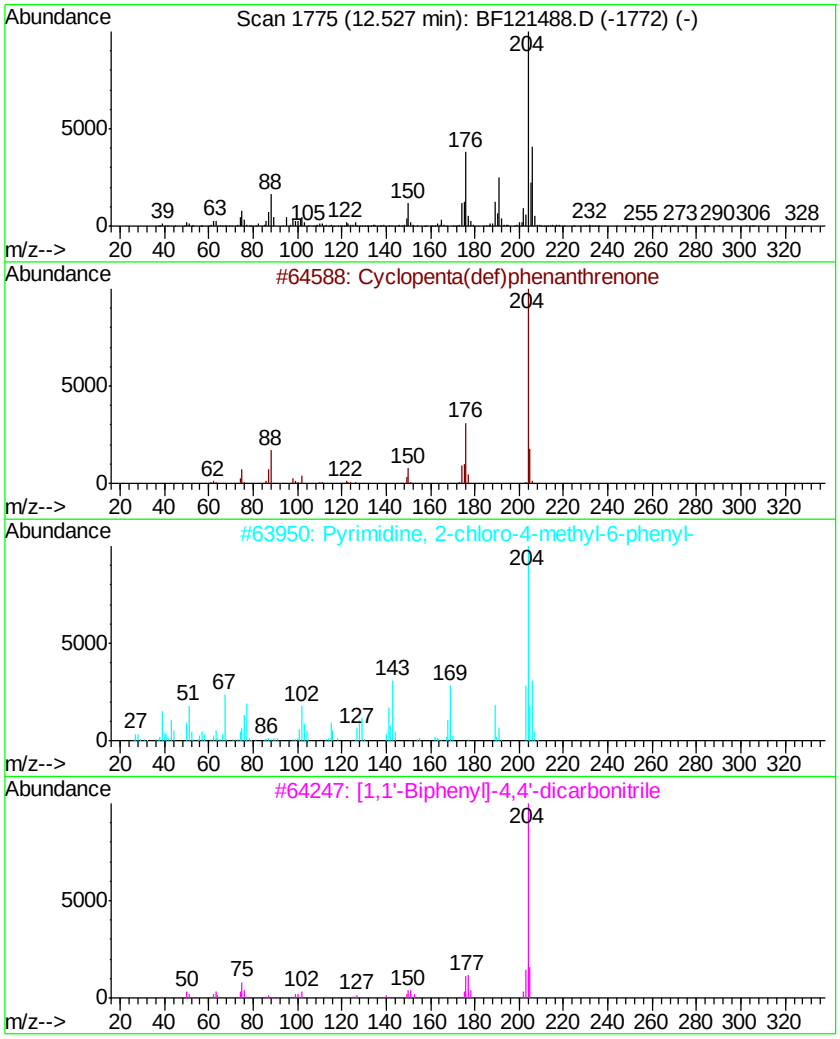
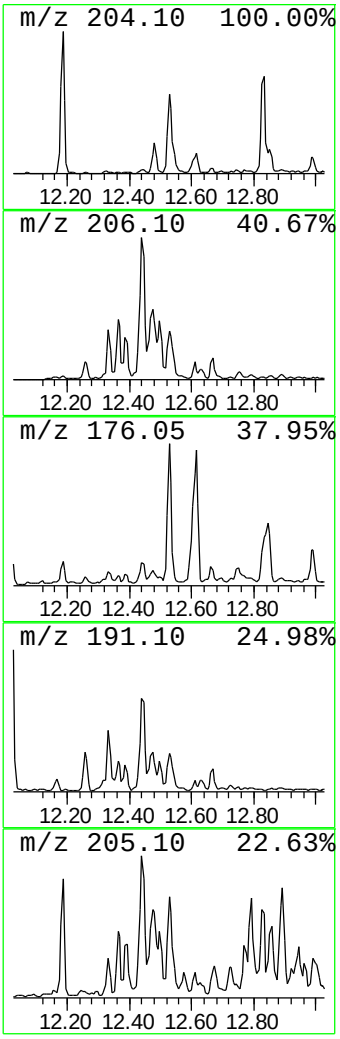
Peak Number 15 Cyclopenta(def)phenanthrenone Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.53	12.87 ng	1589190	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	95
2	Pyrimidine, 2-chloro-4-methyl-6-...	204	C11H9ClN2	032785-40-3	50
3	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	49
4	Pyrimido[5,4-b]benzofurane, 4-ch...	204	C10H5ClN2O	039876-88-5	43
5	2-Chloro-4-phenylphenol	204	C12H9ClO	000092-04-6	43





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083120\
Data File : BF121488.D
Acq On : 31 Aug 2020 20:33
Operator : JU/CG
Sample : L3847-07
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.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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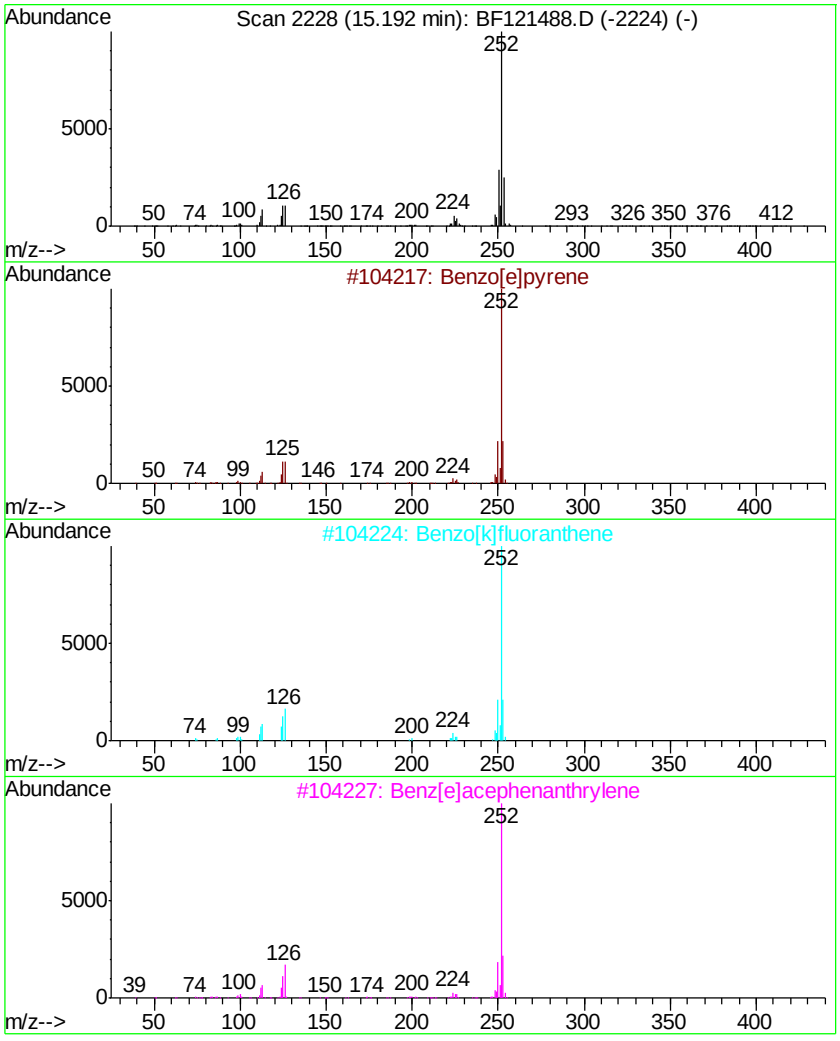
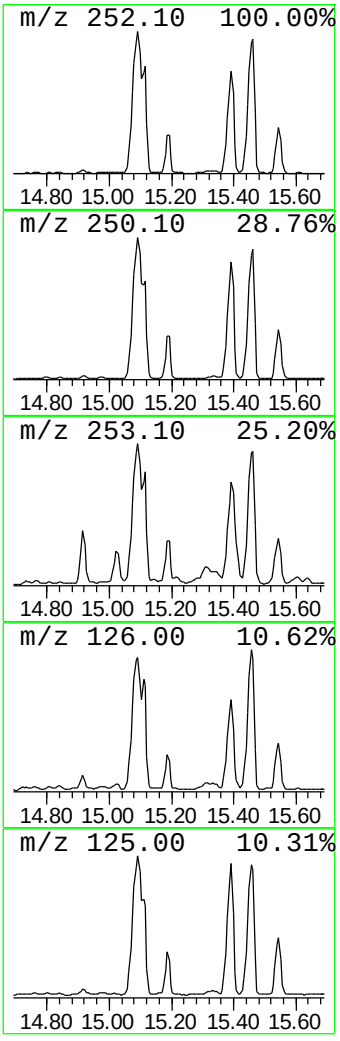
Peak Number 16 Benzo[e]pyrene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.19	14.83 ng	1462160	Perylene-d12	15.51

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	98
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	86





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Data File : BF121488.D
Acq On : 31 Aug 2020 20:33
Operator : JU/CG
Sample : L3847-07
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.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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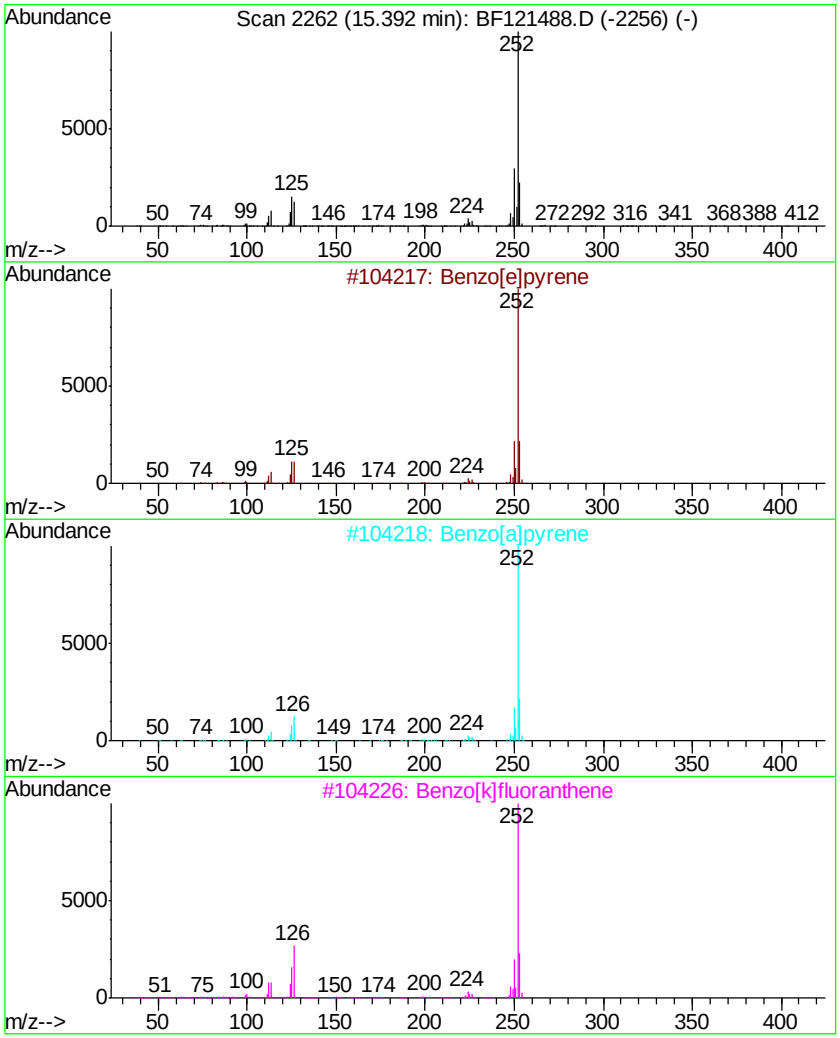
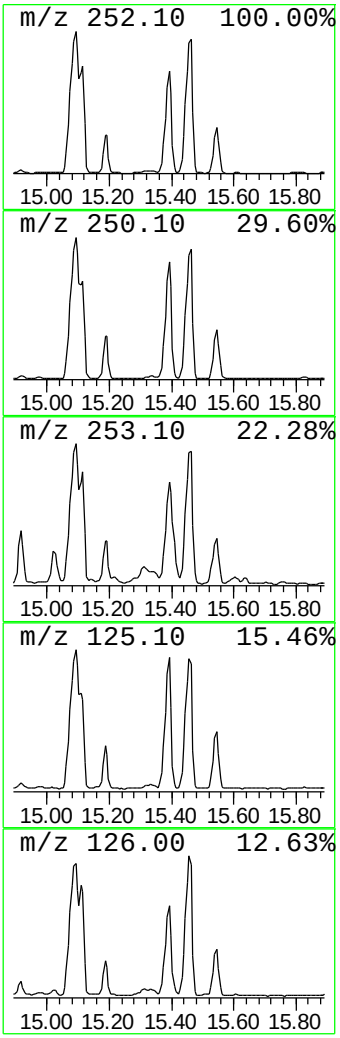
Peak Number 17 Benzo[j]fluoranthene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.39	55.47 ng	5467890	Perylene-d12	15.51

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	95
2	Benzo[a]pyrene	252	C20H12	000050-32-8	93
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90





Library Search Compound Report

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Data File : BF121488.D
Acq On : 31 Aug 2020 20:33
Operator : JU/CG
Sample : L3847-07
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.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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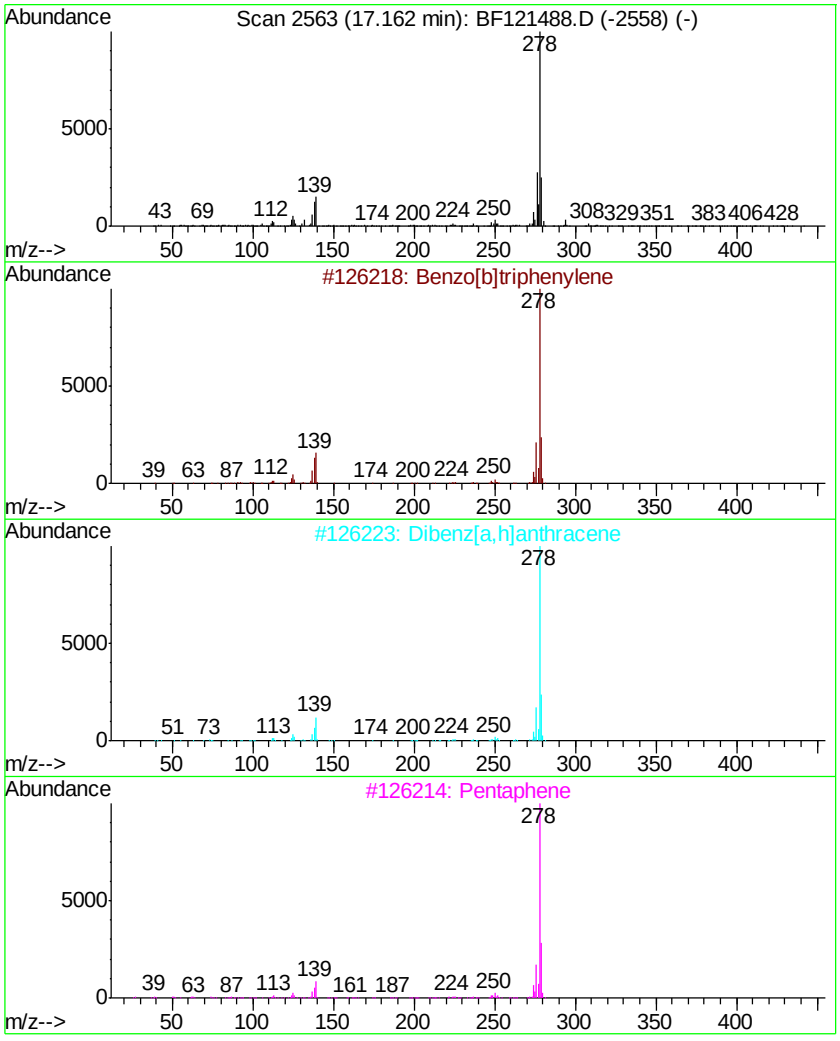
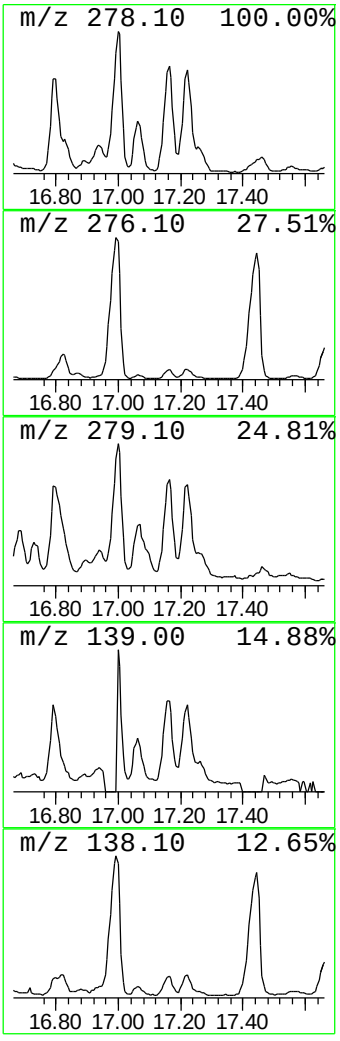
Peak Number 18 Benzo[b]triphenylene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.16	9.47 ng	933916	Perylene-d12	15.51

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	99
2	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	98
3	Pentaphene	278	C22H14	000222-93-5	98
4	Picene	278	C22H14	000213-46-7	98
5	Benzo[b]chrysene	278	C22H14	000214-17-5	96





Library Search Compound Report

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Data File : BF121488.D
Acq On : 31 Aug 2020 20:33
Operator : JU/CG
Sample : L3847-07
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.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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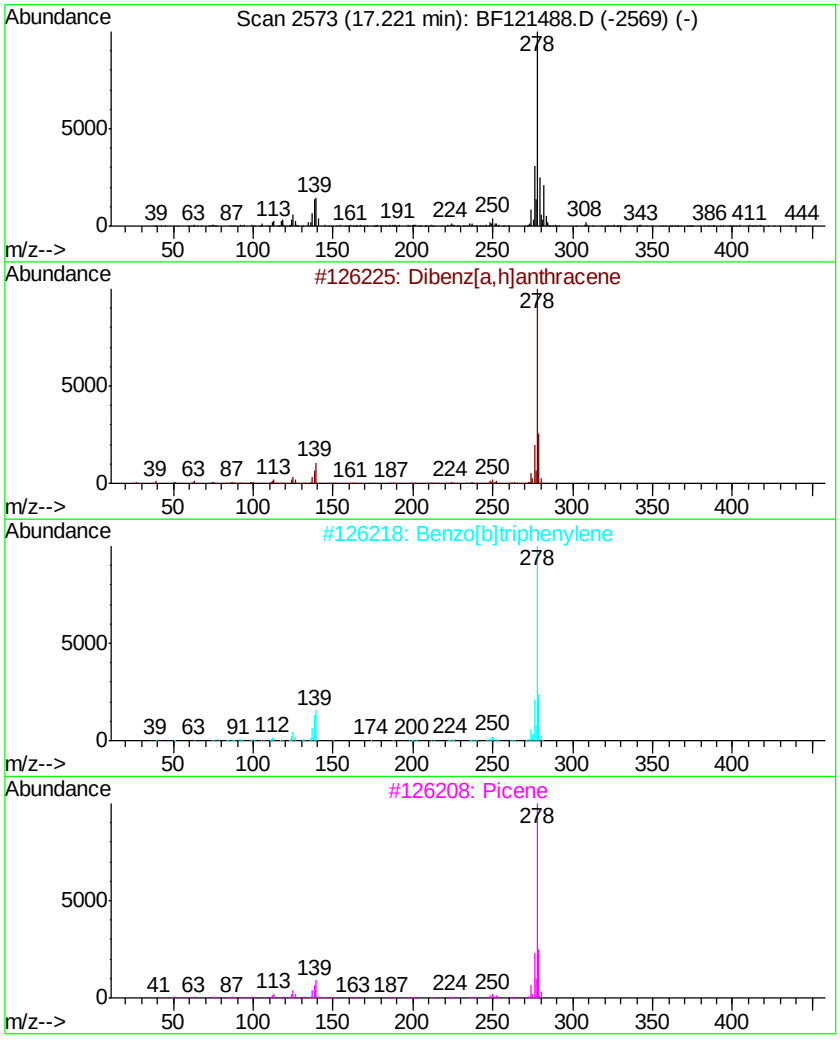
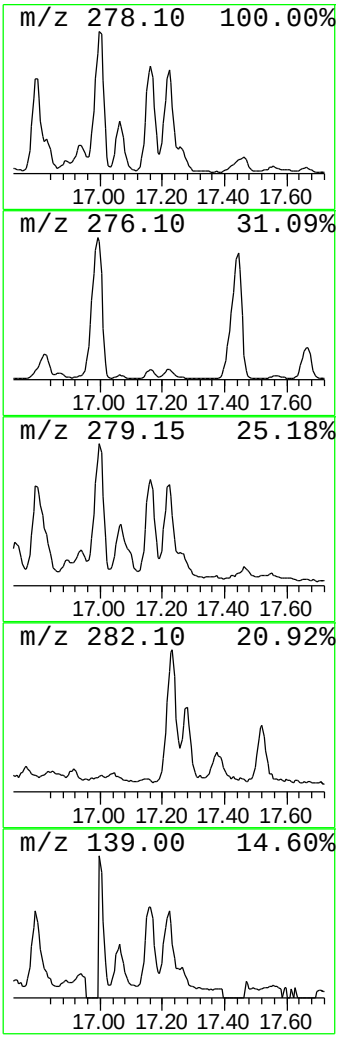
Peak Number 19 Picene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.22	6.57 ng	647803	Perylene-d12	15.51

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	98
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	98
3	Picene	278	C22H14	000213-46-7	98
4	Benzo[a]naphthacene	278	C22H14	000226-88-0	95
5	Pentaphene	278	C22H14	000222-93-5	93





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083120\
Data File : BF121488.D
Acq On : 31 Aug 2020 20:33
Operator : JU/CG
Sample : L3847-07
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.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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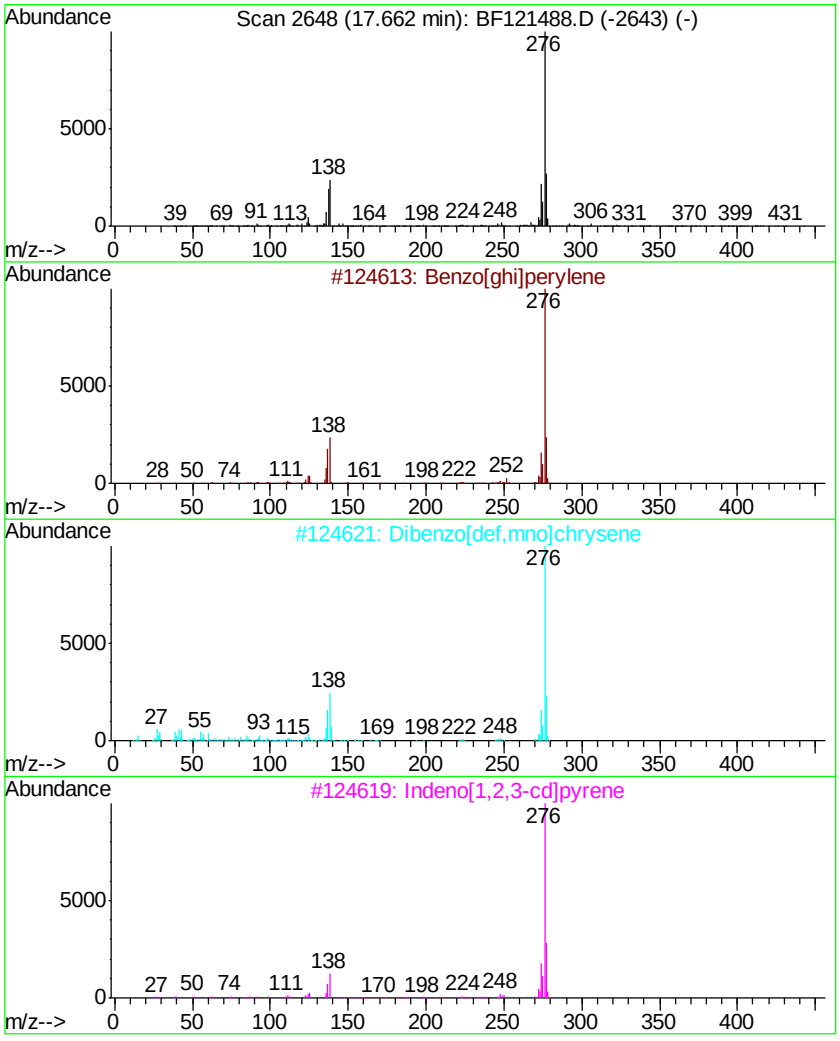
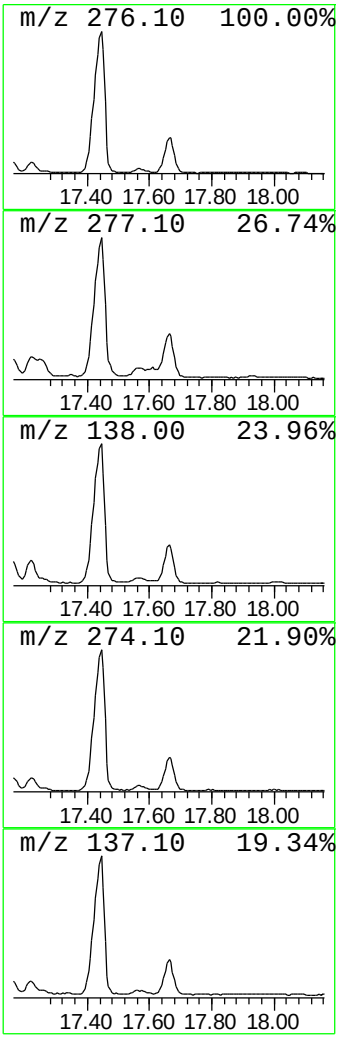
Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.66	12.83 ng	1264600	Perylene-d12	15.51

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]perylene	276	C22H12	000191-24-2	95
2	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	95
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	86
4	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	59
5	Naphthalen-1-yl-(3-nitro-benzyli...	276	C17H12N2O2	200421-53-0	47





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF083120\
Data File : BF121488.D
Acq On : 31 Aug 2020 20:33
Operator : JU/CG
Sample : L3847-07
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.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
Butane, 2-methoxy...	2.15	23.4	ng	2072230	1	6.86	1767660	20.0
9H-Fluorene, 2-me...	10.99	5.4	ng	661635	4	11.39	2468980	20.0
9H-Fluoren-9-one	11.19	6.8	ng	833260	4	11.39	2468980	20.0
Dibenzothiophene	11.28	9.0	ng	1114840	4	11.39	2468980	20.0
Phenanthrene, 2-m...	11.89	20.4	ng	2520650	4	11.39	2468980	20.0
Phenanthrene, 1-m...	11.92	26.9	ng	3319560	4	11.39	2468980	20.0
Anthracene, 2-met...	11.96	7.3	ng	902545	4	11.39	2468980	20.0
4H-Cyclopenta[def...	12.00	31.9	ng	3944350	4	11.39	2468980	20.0
Anthracene, 1-met...	12.02	11.8	ng	1458640	4	11.39	2468980	20.0
Naphthalene, 2-ph...	12.19	12.4	ng	1533240	4	11.39	2468980	20.0
9,10-Anthracenedione	12.21	13.6	ng	1683410	4	11.39	2468980	20.0
Phenanthrene, 2,3...	12.33	8.2	ng	1016030	4	11.39	2468980	20.0
Phenanthrene, 2,5...	12.44	18.4	ng	2272610	4	11.39	2468980	20.0
unknown12.48	12.48	5.7	ng	708967	4	11.39	2468980	20.0
Cyclopenta(def)ph...	12.53	12.9	ng	1589190	4	11.39	2468980	20.0
Benzo[e]pyrene	15.19	14.8	ng	1462160	6	15.51	1971570	20.0
Benzo[j]fluoranthene	15.39	55.5	ng	5467890	6	15.51	1971570	20.0
Benzo[b]triphenylene	17.16	9.5	ng	933916	6	15.51	1971570	20.0
Picene	17.22	6.6	ng	647803	6	15.51	1971570	20.0
Dibenzo[def,mno]c...	17.66	12.8	ng	1264600	6	15.51	1971570	20.0