LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092520\
Data File : BF121699.D
Acq On : 25 Sep 2020 16:55
Operator : JU/CG
Sample : L4152-02 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-3-4

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-BF091020.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	4.351	381	385	399	rBV	646160	756691	9.63%	0.893%
2	4.987	489	493	507	rBV	387049	414724	5.28%	0.489%
3	5.404	561	564	575	rBV	202618	211175	2.69%	0.249%
4	6.428	734	738	747	rBV	491684	458600	5.84%	0.541%
5	6.792	797	800	804	rBV	992081	919276	11.70%	1.085%
6	7.357	892	896	901	rBV	513639	429762	5.47%	0.507%
7	8.080	1014	1019	1021	rBV	1475869	1216392	15.49%	1.435%
8	8.104	1021	1023	1027	rVB	236490	192220	2.45%	0.227%
9	9.157	1198	1202	1205	rBV	1039079	851464	10.84%	1.005%
10	9.833	1311	1317	1320	rBV	1543992	1441716	18.35%	1.701%
11	9.869	1320	1323	1326	rVB	848681	673039	8.57%	0.794%
12	10.039	1348	1352	1356	rBV	600995	495566	6.31%	0.585%
13	10.380	1406	1410	1416	rBV	893227	803967	10.23%	0.949%
14	10.539	1435	1437	1441	rVB	220384	169118	2.15%	0.200%
15	10.621	1445	1451	1455	rVV	257446	311871	3.97%	0.368%
16	10.927	1497	1503	1506	rBV3	137824	204027	2.60%	0.241%
17	11.127	1534	1537	1541	rVB	437435	358363	4.56%	0.423%
18	11.180	1541	1546	1549	rBV3	156861	233915	2.98%	0.276%
19	11.216	1549	1552	1558	rVB	512312	479277	6.10%	0.565%
20	11.327	1566	1571	1572	rBV	1391445	1482505	18.87%	1.749%
21	11.357	1572	1576	1579	rVV	5595176	6395805	81.42%	7.546%
22	11.404	1579	1584	1586	rVV	2136369	1972588	25.11%	2.327%
23	11.433	1586	1589	1592	rVB2	131621	123469	1.57%	0.146%
24	11.551	1603	1609	1617	rBV2	825711	928505	11.82%	1.095%
25	11.616	1617	1620	1624	rVV2	228676	210757	2.68%	0.249%
26	11.651	1624	1626	1632	rVV4	102733	128169	1.63%	0.151%
27	11.821	1650	1655	1658	rBV	639096	655150	8.34%	0.773%
28	11.851	1658	1660	1664	rVB	1018311	829105	10.55%	0.978%
29	11.898	1664	1668	1671	rBV	373709	354889	4.52%	0.419%
30	11.939	1671	1675	1677	rBV	1393241	1395188	17.76%	1.646%
31	12.027	1688	1690	1693	rVV	176997	140588	1.79%	0.166%
32	12.121	1703	1706	1708	rVV	676538	592671	7.54%	0.699%
33	12.145	1708	1710	1714	rVV	540529	426041	5.42%	0.503%
34	12.268	1727	1731	1734	rBV2	154511	147229	1.87%	0.174%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092520\
Data File : BF121699.D
Acq On : 25 Sep 2020 16:55
Operator : JU/CG
Sample : L4152-02 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-3-4

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-BF091020.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.298	1734	1736	1738	rVV	126987	108463	1.38%	0.128%
36	12.321	1738	1740	1745	rVB	113299	104177	1.33%	0.123%
37	12.374	1745	1749	1752	rBV	267447	307231	3.91%	0.362%
38	12.415	1752	1756	1761	rVB2	203887	287517	3.66%	0.339%
39	12.463	1761	1764	1769	rBV	367470	393684	5.01%	0.464%
40	12.551	1772	1779	1782	rVB	5997300	7650625	97.40%	9.026%
41	12.598	1782	1787	1790	rBV2	189588	233658	2.97%	0.276%
42	12.686	1795	1802	1811	rBV2	383482	670643	8.54%	0.791%
43	12.780	1811	1818	1821	rBV2	5209661	7855189	100.00%	9.268%
44	12.815	1821	1824	1828	rVB	367449	332720	4.24%	0.393%
45	12.886	1832	1836	1837	rBV	579496	504073	6.42%	0.595%
46	12.910	1837	1840	1847	rVB2	1097302	1480174	18.84%	1.746%
47	12.986	1847	1853	1856	rBV2	420567	715055	9.10%	0.844%
48	13.015	1856	1858	1860	rVB	231045	167521	2.13%	0.198%
49	13.068	1864	1867	1869	rBV4	328491	383274	4.88%	0.452%
50	13.092	1869	1871	1874	rVB	1046478	939785	11.96%	1.109%
51	13.162	1879	1883	1885	rBV	797502	669549	8.52%	0.790%
52	13.198	1885	1889	1891	rBV2	643316	688302	8.76%	0.812%
53	13.221	1891	1893	1896	rVB	360246	303394	3.86%	0.358%
54	13.251	1896	1898	1901	rBV	161584	146047	1.86%	0.172%
55	13.292	1902	1905	1907	rVB	256741	221758	2.82%	0.262%
56	13.321	1907	1910	1913	rBV2	328502	367694	4.68%	0.434%
57	13.492	1933	1939	1941	rBV5	121274	244274	3.11%	0.288%
58	13.521	1941	1944	1946	rVV	149785	166129	2.11%	0.196%
59	13.574	1950	1953	1955	rBV2	130712	151106	1.92%	0.178%
60	13.598	1955	1957	1962	rVB	506621	548079	6.98%	0.647%
61	13.710	1972	1976	1979	rBV2	599526	638208	8.12%	0.753%
62	13.739	1979	1981	1983	rVV	624988	546815	6.96%	0.645%
63	13.762	1983	1985	1990	rVV2	544932	807802	10.28%	0.953%
64	13.809	1990	1993	1999	rVB	651334	607399	7.73%	0.717%
65	13.880	2003	2005	2010	rVB	150459	139136	1.77%	0.164%
66	13.962	2011	2019	2022	rBV2	3612730	5532481	70.43%	6.527%
67	13.998	2022	2025	2032	rVB	3254565	3228148	41.10%	3.809%
68	14.074	2035	2038	2042	rBV	616733	558322	7.11%	0.659%
69	14.151	2049	2051	2054	rVB2	219020	194548	2.48%	0.230%
70	14.186	2054	2057	2061	rVB2	323488	432654	5.51%	0.510%
71	14.280	2071	2073	2076	rBV2	82347	106949	1.36%	0.126%

LSC Area Percent Report

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Data File : BF121699.D
Acq On : 25 Sep 2020 16:55
Operator : JU/CG
Sample : L4152-02 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-3-4

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-BF091020.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.315	2076	2079	2080	rVV	163271	162187	2.06%	0.191%
73	14.351	2080	2085	2087	rVV	532744	651421	8.29%	0.769%
74	14.380	2087	2090	2094	rVV2	306903	393725	5.01%	0.465%
75	14.445	2095	2101	2103	rVV2	314805	529804	6.74%	0.625%
76	14.474	2103	2106	2108	rVV	363633	409305	5.21%	0.483%
77	14.498	2108	2110	2113	rVV3	400824	367747	4.68%	0.434%
78	14.527	2113	2115	2116	rVV2	153295	132312	1.68%	0.156%
79	14.545	2116	2118	2124	rVB3	205487	211241	2.69%	0.249%
80	14.656	2133	2137	2139	rBV2	263832	314005	4.00%	0.370%
81	14.839	2163	2168	2176	rVB2	223432	408357	5.20%	0.482%
82	14.904	2176	2179	2182	rBV3	76639	110160	1.40%	0.130%
83	14.945	2183	2186	2190	rBV	109182	166380	2.12%	0.196%
84	15.004	2190	2196	2199	rBV	2026221	3524307	44.87%	4.158%
85	15.104	2210	2213	2216	rVB	508082	481801	6.13%	0.568%
86	15.192	2224	2228	2229	rBV2	125121	152213	1.94%	0.180%
87	15.298	2241	2246	2252	rVB	1274963	1830695	23.31%	2.160%
88	15.362	2252	2257	2262	rBV	1939446	2439766	31.06%	2.878%
89	15.415	2262	2266	2269	rBV	769578	1029327	13.10%	1.214%
90	15.451	2269	2272	2278	rVB	668779	852427	10.85%	1.006%
91	15.768	2323	2326	2331	rVB4	79791	126489	1.61%	0.149%
92	15.962	2355	2359	2363	rVB	121504	158151	2.01%	0.187%
93	16.415	2432	2436	2441	rBV4	72351	121838	1.55%	0.144%
94	16.662	2472	2478	2481	rBV2	153867	319355	4.07%	0.377%
95	16.856	2504	2511	2518	rVB2	979557	1884270	23.99%	2.223%
96	16.927	2519	2523	2532	rVB	99019	192777	2.45%	0.227%
97	17.021	2532	2539	2544	rBV	231991	499260	6.36%	0.589%
98	17.080	2544	2549	2553	rBV2	153055	270753	3.45%	0.319%
99	17.292	2576	2585	2595	rBV	701793	1560003	19.86%	1.841%
100	17.515	2616	2623	2638	rVB2	250851	621973	7.92%	0.734%

Sum of corrected areas: 84758454

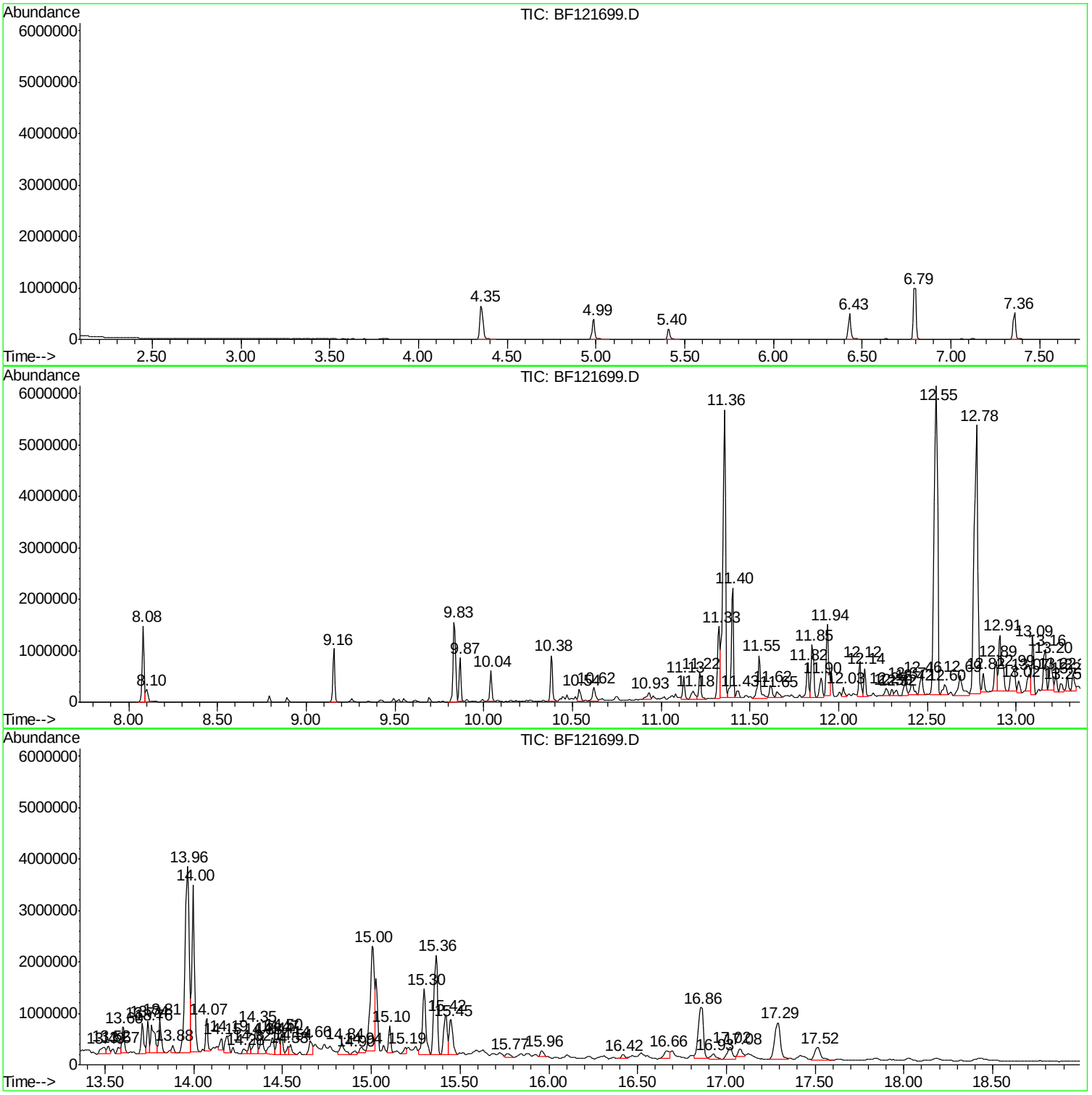
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092520\
Data File : BF121699.D
Acq On : 25 Sep 2020 16:55
Operator : JU/CG
Sample : L4152-02 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-3-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.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\BF092520\
Data File : BF121699.D
Acq On : 25 Sep 2020 16:55
Operator : JU/CG
Sample : L4152-02 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-3-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

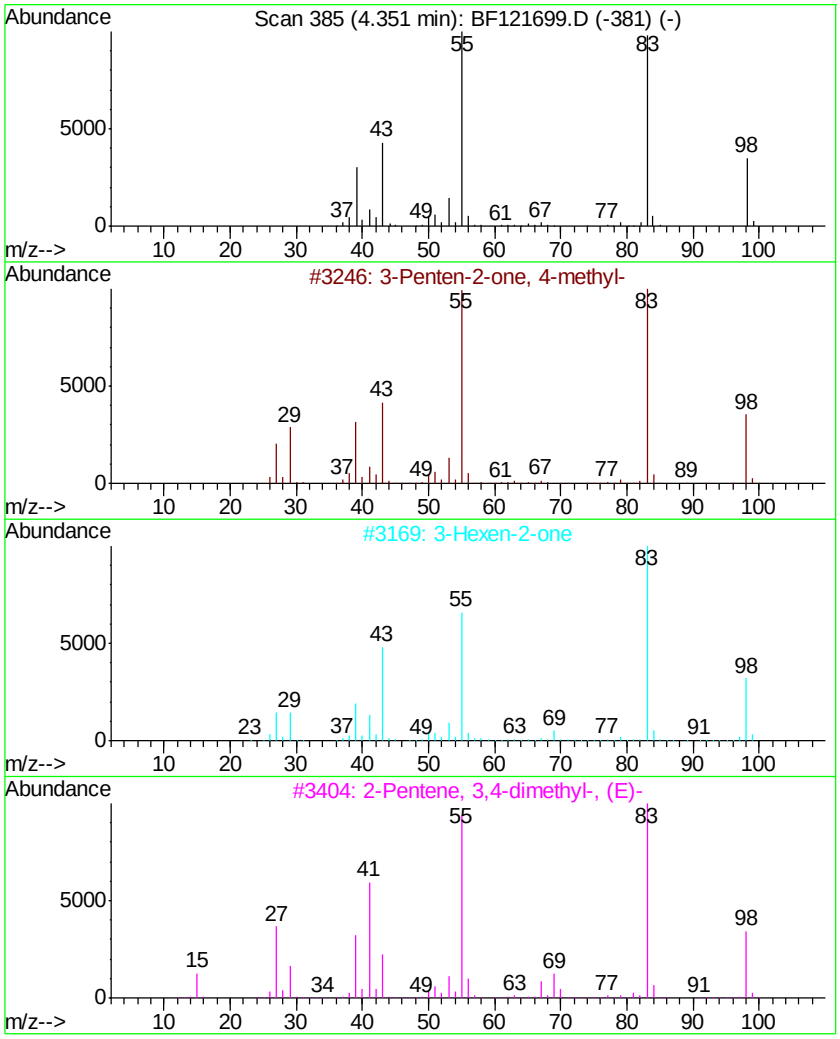
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

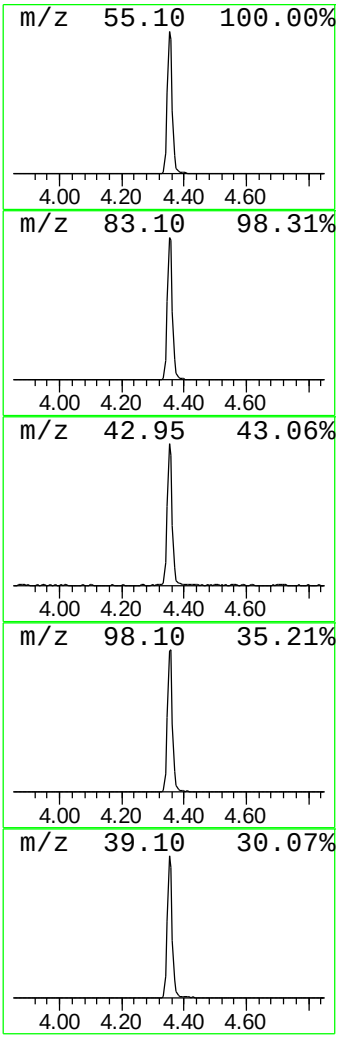
****

Peak Number 1 3-Penten-2-one, 4-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.35	16.46 ng	756691	1,4-Dichlorobenzene-d4	6.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Penten-2-one, 4-methyl-	98	C6H10O	000141-79-7	95
2	3-Hexen-2-one	98	C6H10O	000763-93-9	90
3	2-Pentene, 3,4-dimethyl-, (E)-	98	C7H14	004914-92-5	90
4	2-Pentene, 3,4-dimethyl-, (Z)-	98	C7H14	004914-91-4	86
5	2-Pentene, 2,4-dimethyl-	98	C7H14	000625-65-0	86





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092520\
Data File : BF121699.D
Acq On : 25 Sep 2020 16:55
Operator : JU/CG
Sample : L4152-02 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-3-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

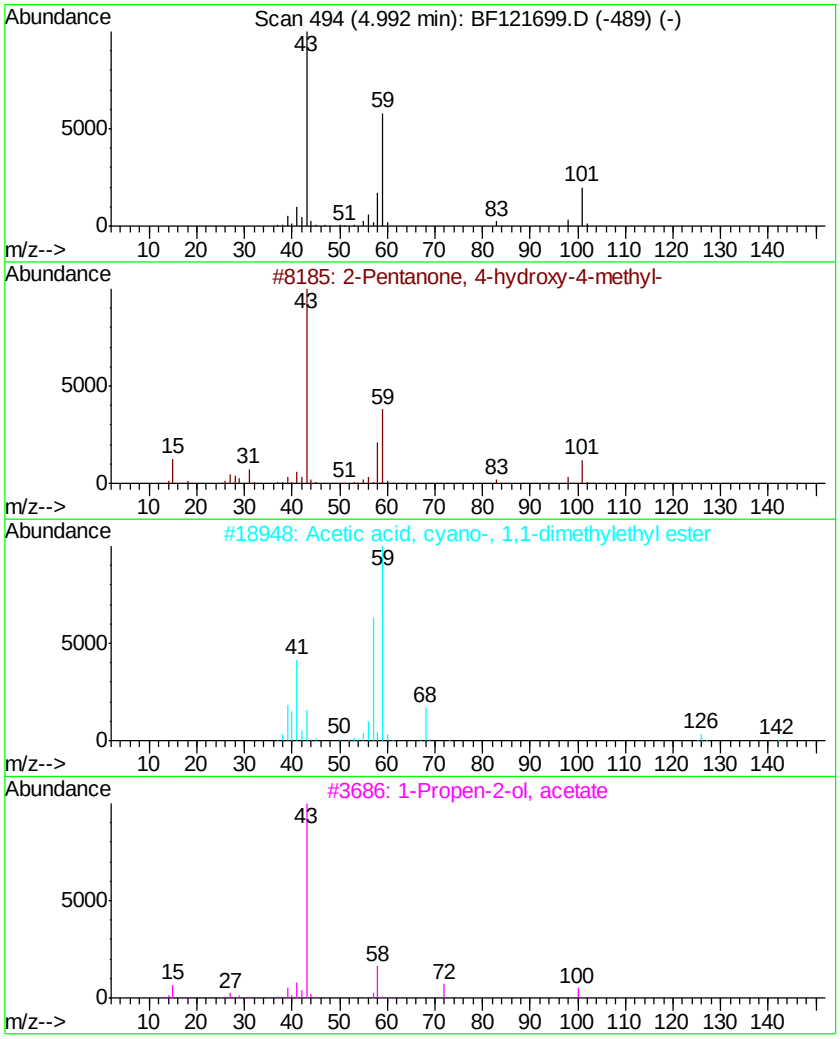
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

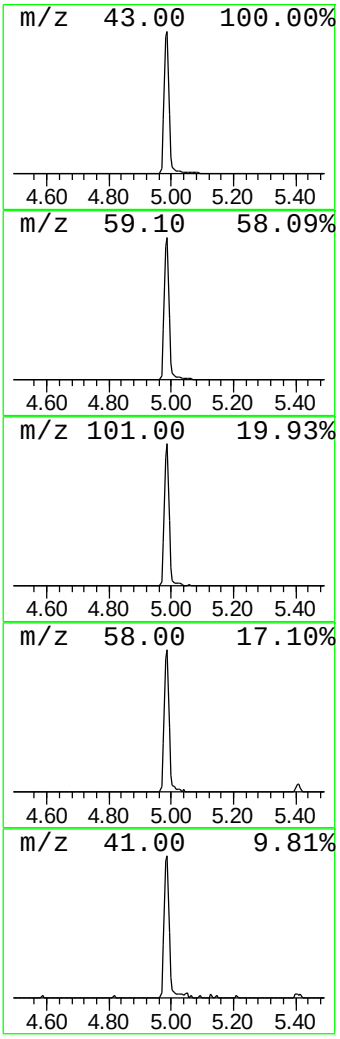
****

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.99	9.02 ng	414724	1,4-Dichlorobenzene-d4	6.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	32
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092520\
Data File : BF121699.D
Acq On : 25 Sep 2020 16:55
Operator : JU/CG
Sample : L4152-02 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-3-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

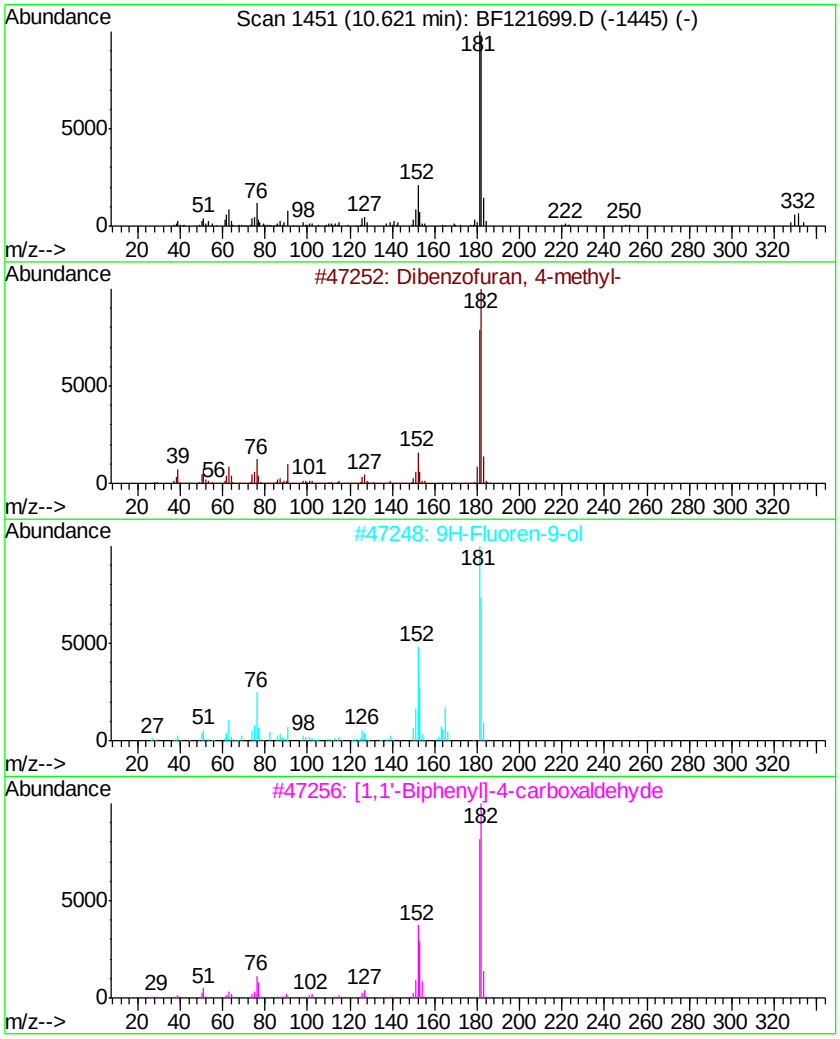
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

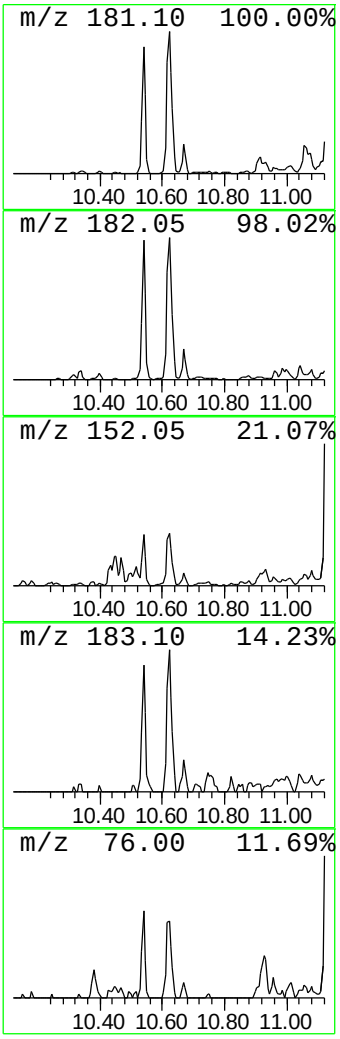
****

Peak Number 3 Dibenzofuran, 4-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.62	4.21 ng	311871	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	93
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	86
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	81
4	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	72
5	Pyridine, 4,4'-(1,2-ethenediyl)bis-	182	C12H10N2	001135-32-6	64





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092520\
Data File : BF121699.D
Acq On : 25 Sep 2020 16:55
Operator : JU/CG
Sample : L4152-02 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-3-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

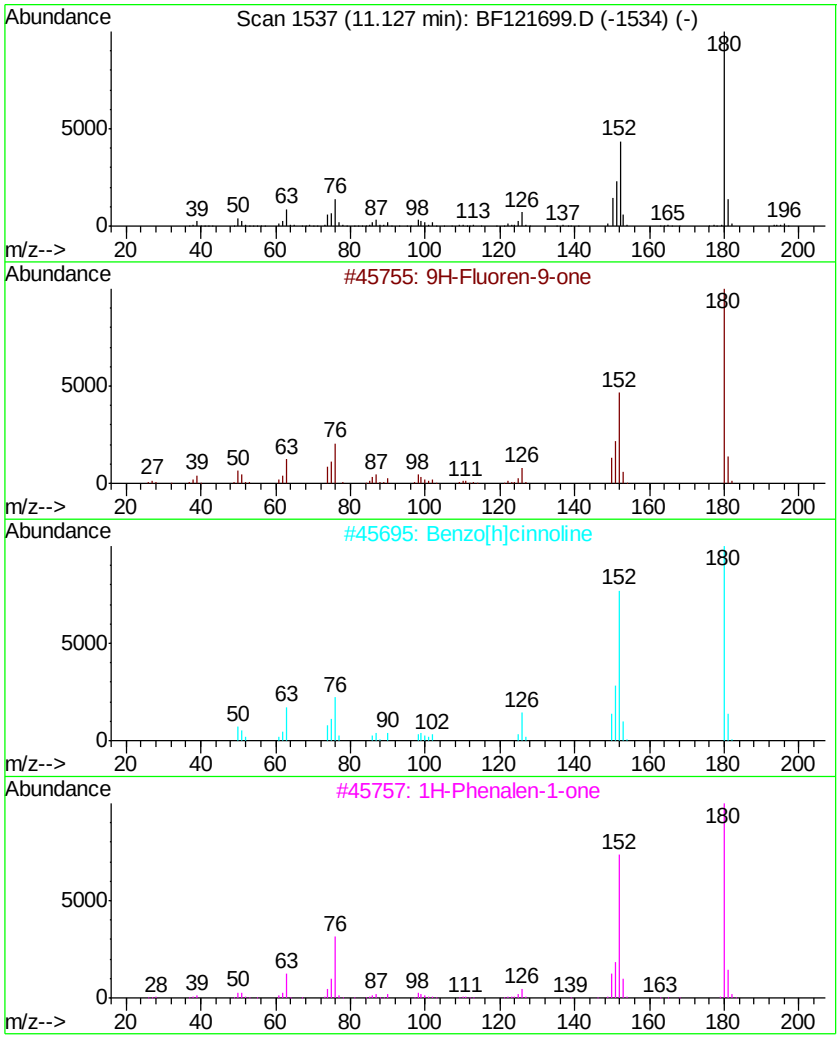
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

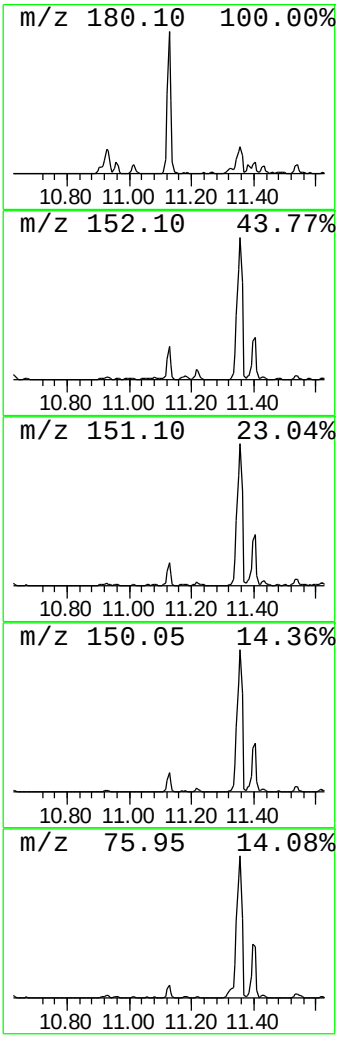
****

Peak Number 4 9H-Fluoren-9-one Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.13	4.83 ng	358363	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
2	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	91
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	58
4	2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	53
5	Phenazine	180	C12H8N2	000092-82-0	47





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092520\
Data File : BF121699.D
Acq On : 25 Sep 2020 16:55
Operator : JU/CG
Sample : L4152-02 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-3-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

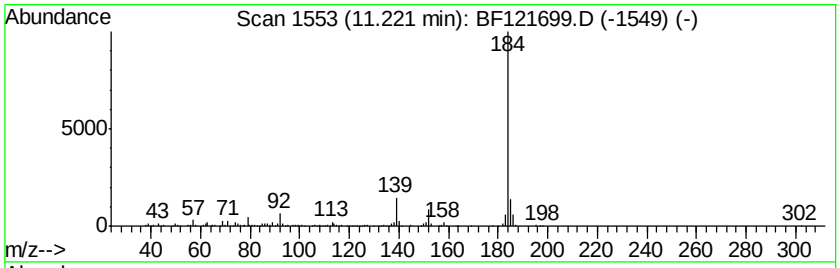
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

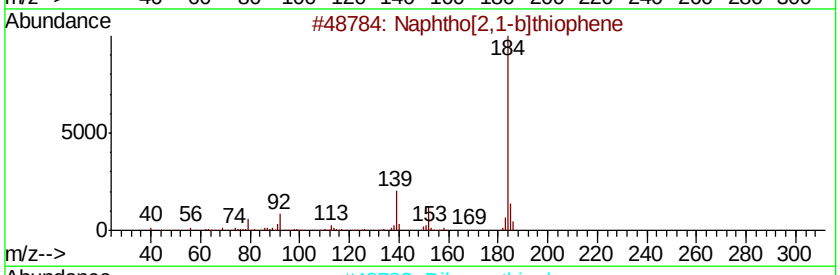
****

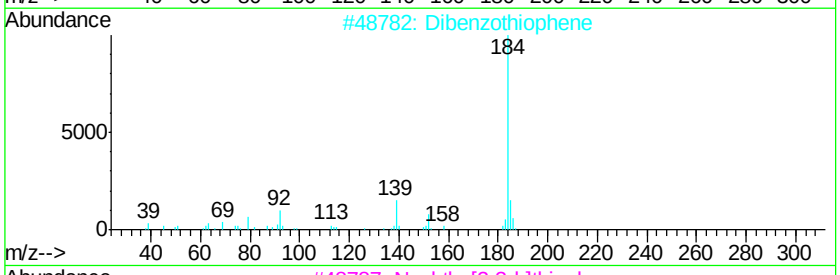
Peak Number 5 Naphtho[2,1-b]thiophene Concentration Rank 12

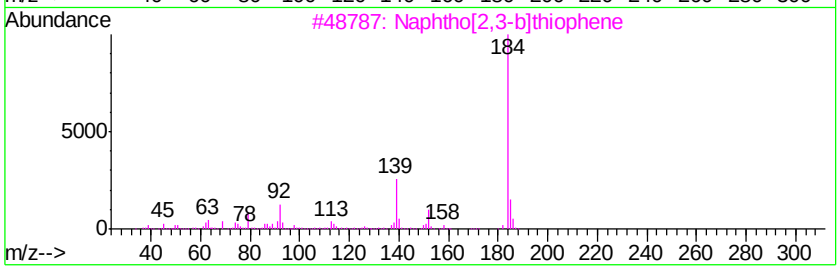
R.T.	EstConc	Area	Relative to ISTD	R.T.
11.22	6.47 ng	479277	Phenanthrene-d10	11.33

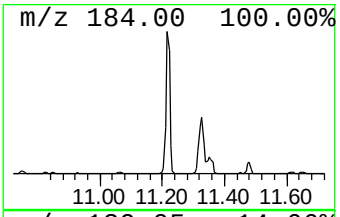
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	97
2	Dibenzothiophene	184	C12H8S	000132-65-0	96
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	95
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	87

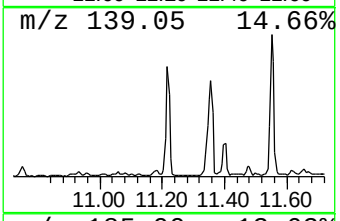


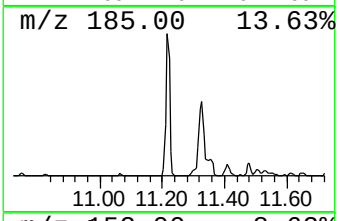


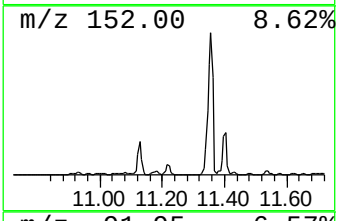


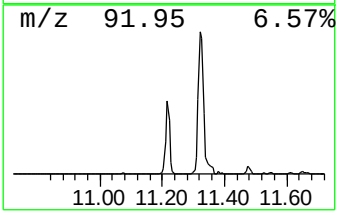












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Acq On : 25 Sep 2020 16:55
Operator : JU/CG
Sample : L4152-02 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-3-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.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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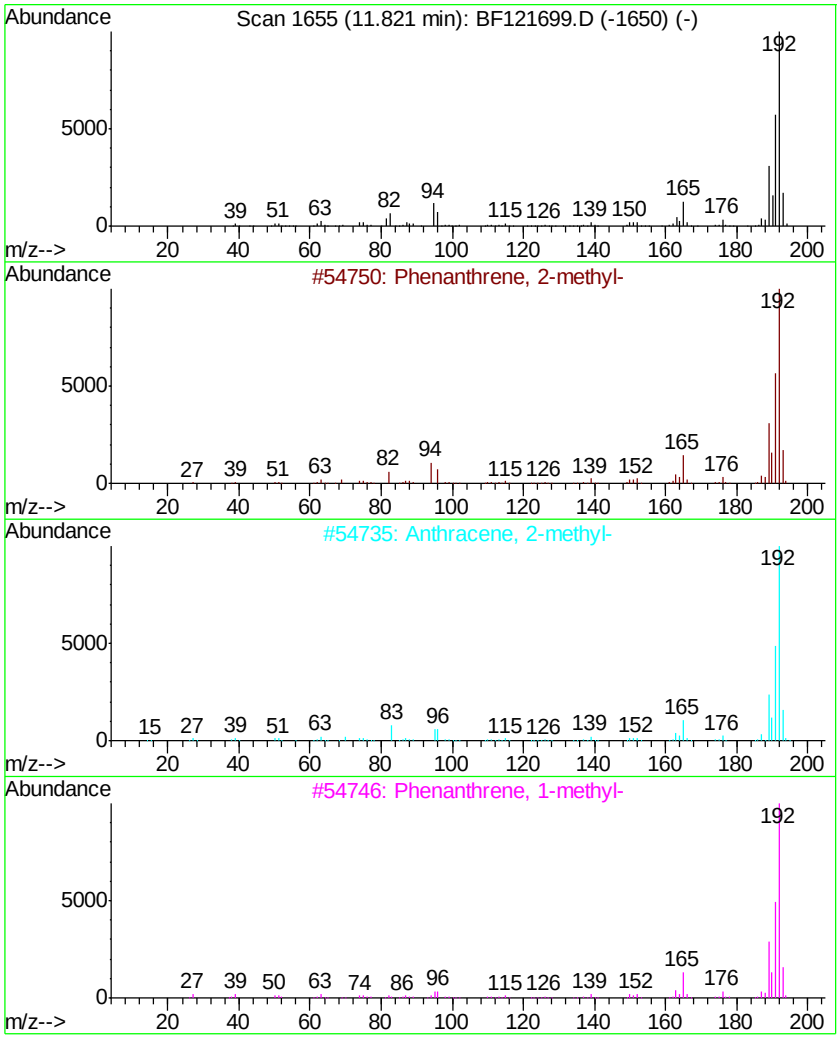
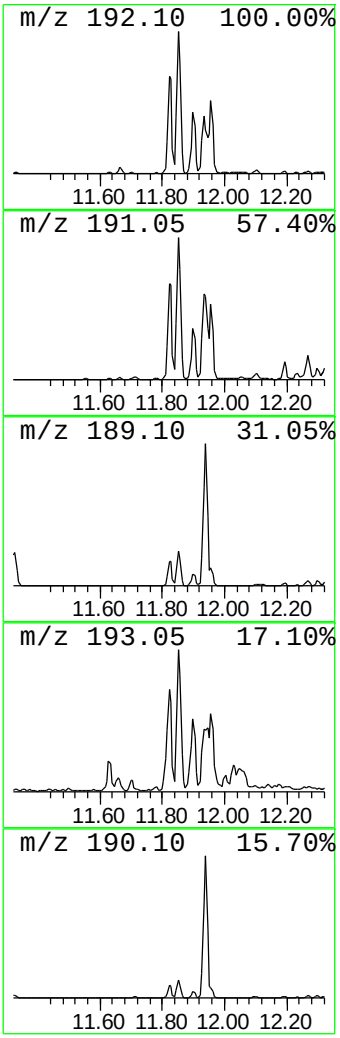
Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.82	8.84 ng	655150	Phenanthrene-d10	11.33

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	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95





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Operator : JU/CG
Sample : L4152-02 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-3-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.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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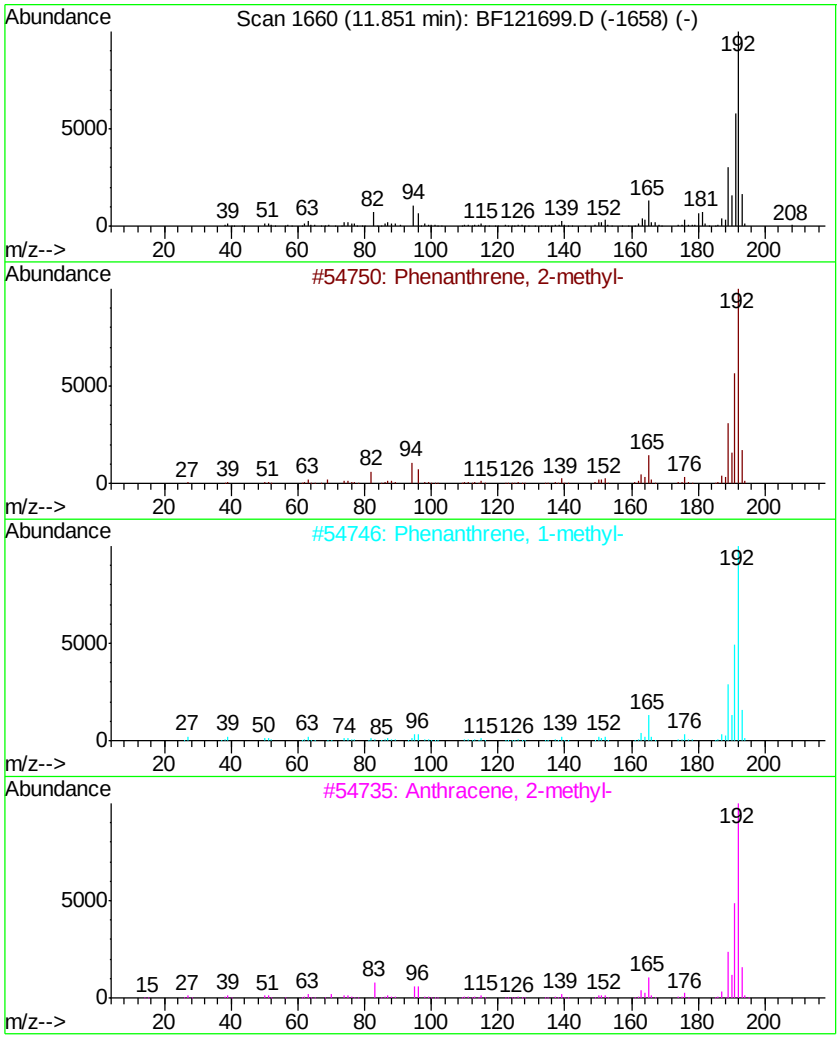
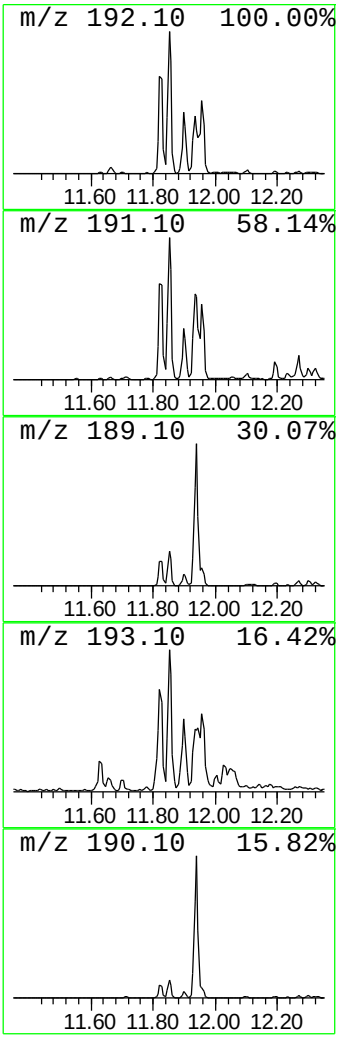
Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.85	11.19 ng	829105	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95





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Acq On : 25 Sep 2020 16:55
Operator : JU/CG
Sample : L4152-02 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-3-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.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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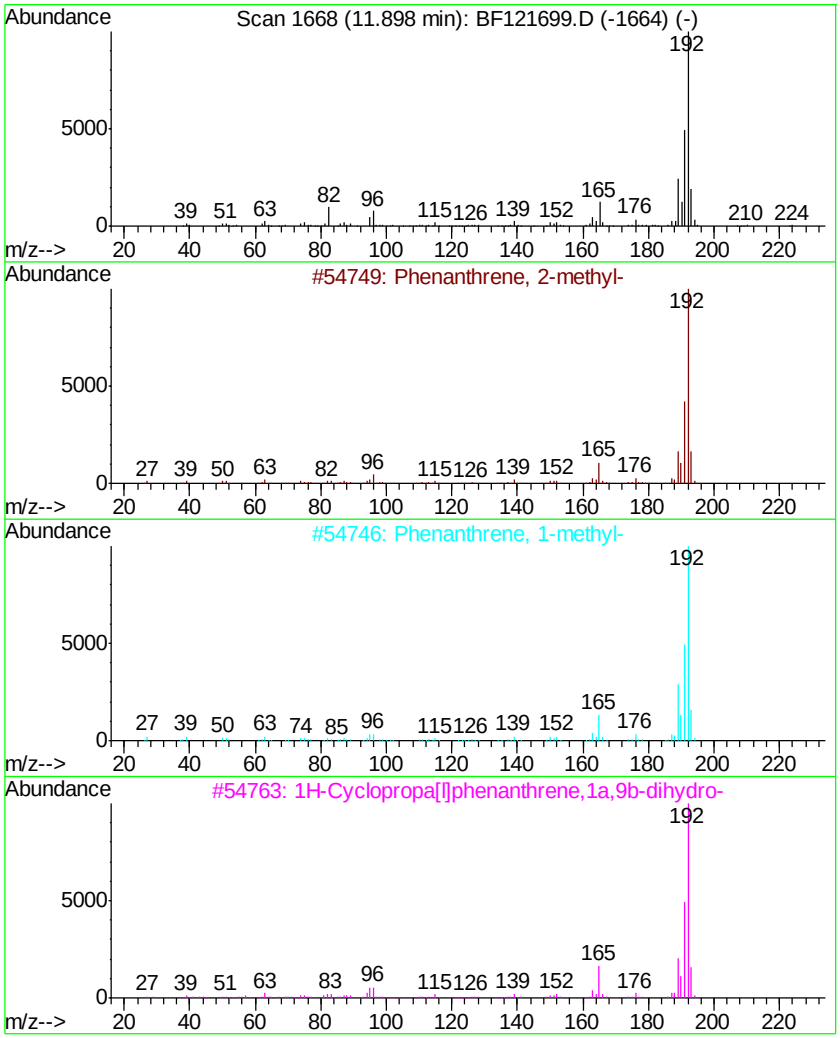
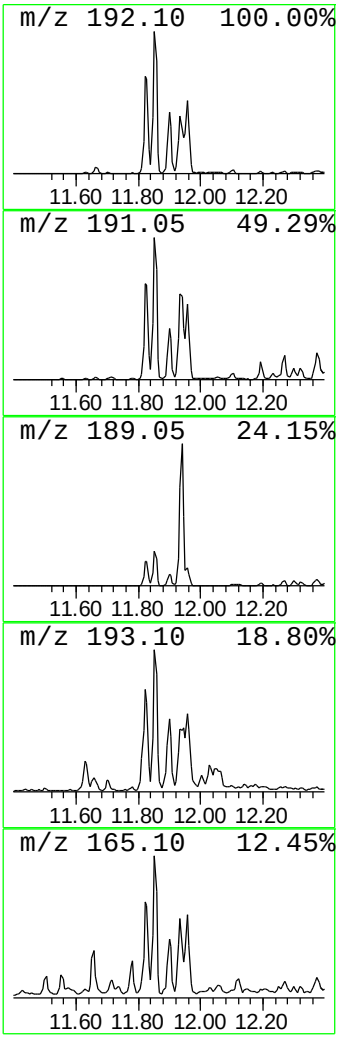
Peak Number 8 1H-Cyclopropa[l]phenanthren... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	4.79 ng	354889	Phenanthrene-d10	11.33

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





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Operator : JU/CG
Sample : L4152-02 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-3-4

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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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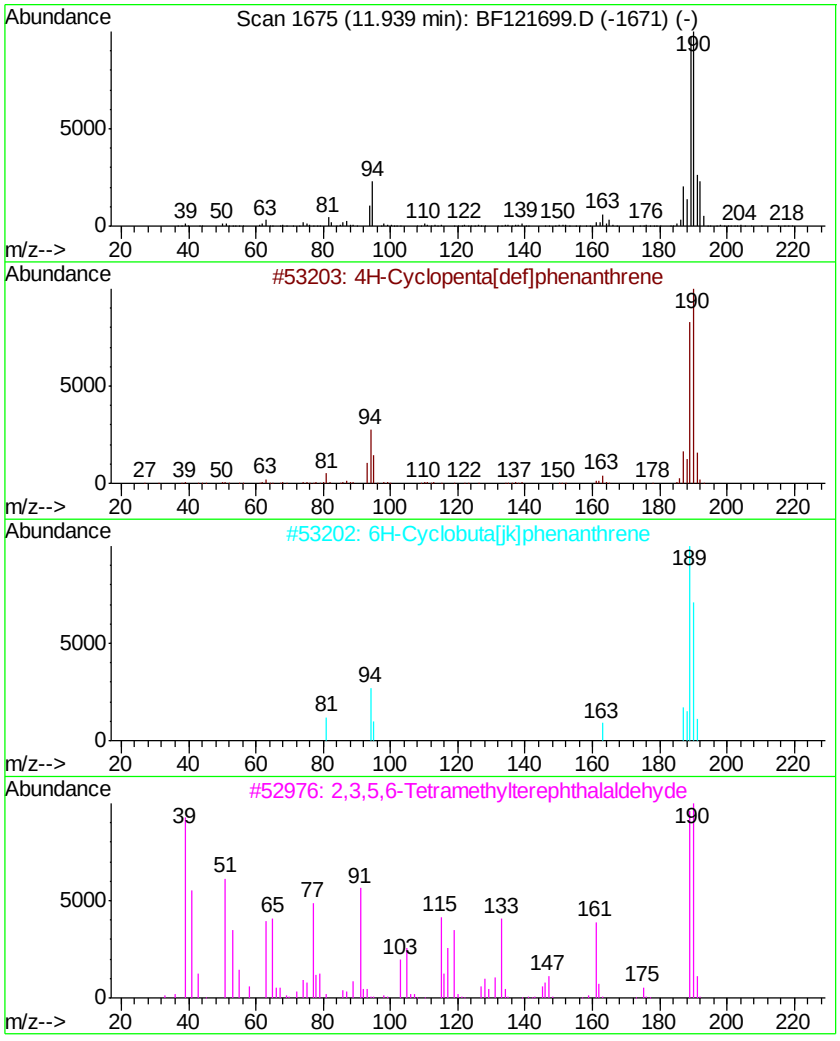
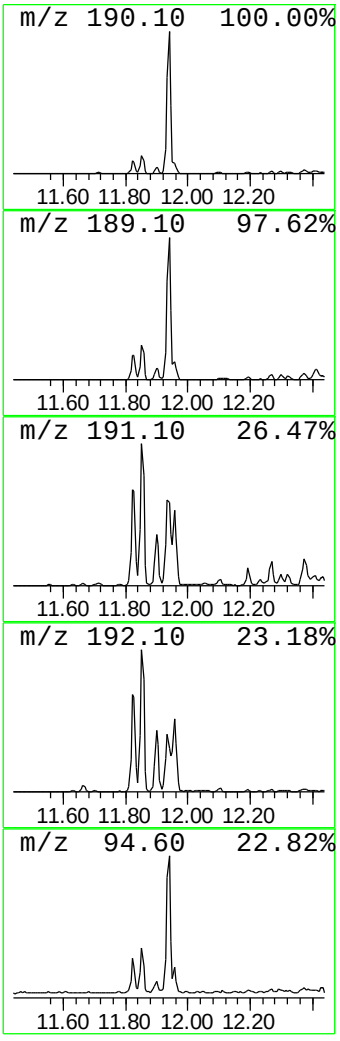
Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.94	18.82 ng	1395190	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	64
3	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
4	Methyl diselenide	190	C2H6Se2	007101-31-7	49
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45





Library Search Compound Report

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Sample : L4152-02 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-3-4

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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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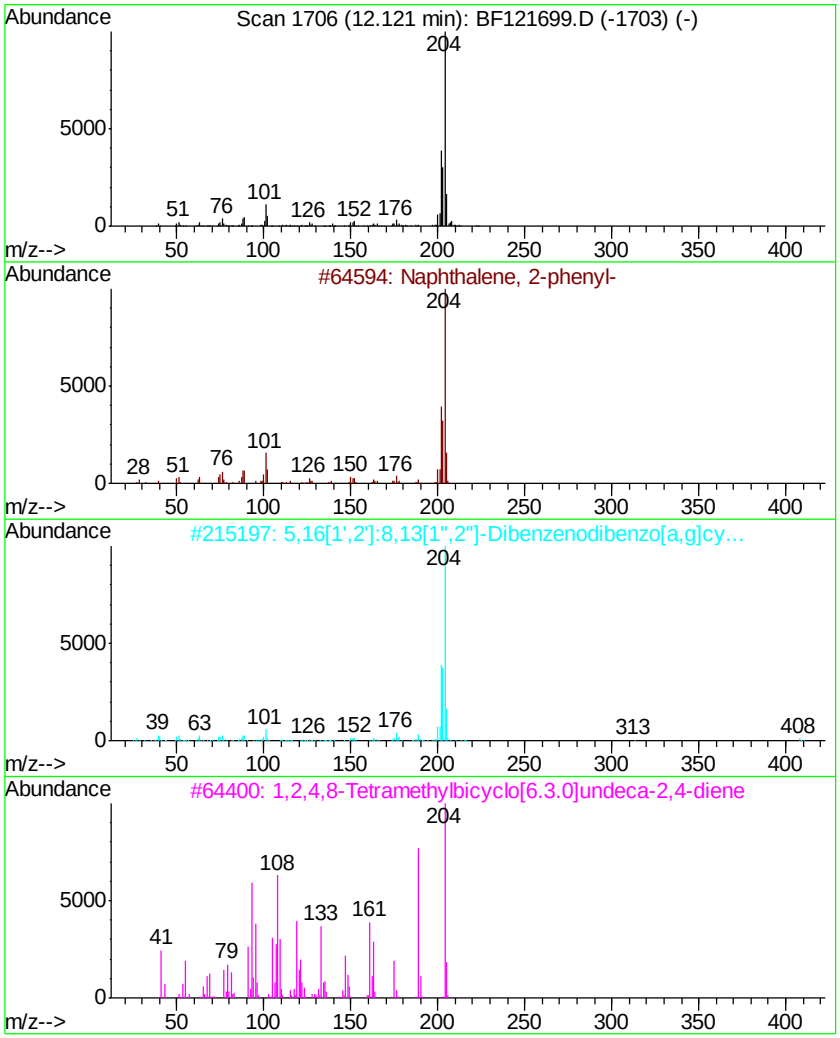
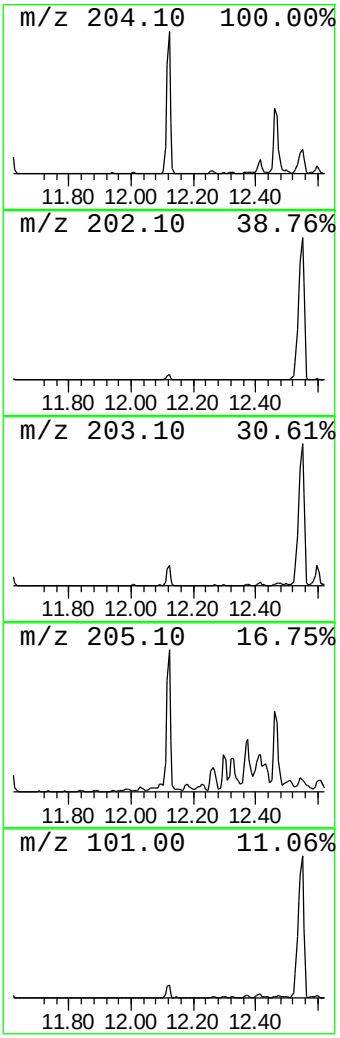
Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	8.00 ng	592671	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	96
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	91
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	86
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	83
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	68





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Sample : L4152-02 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-3-4

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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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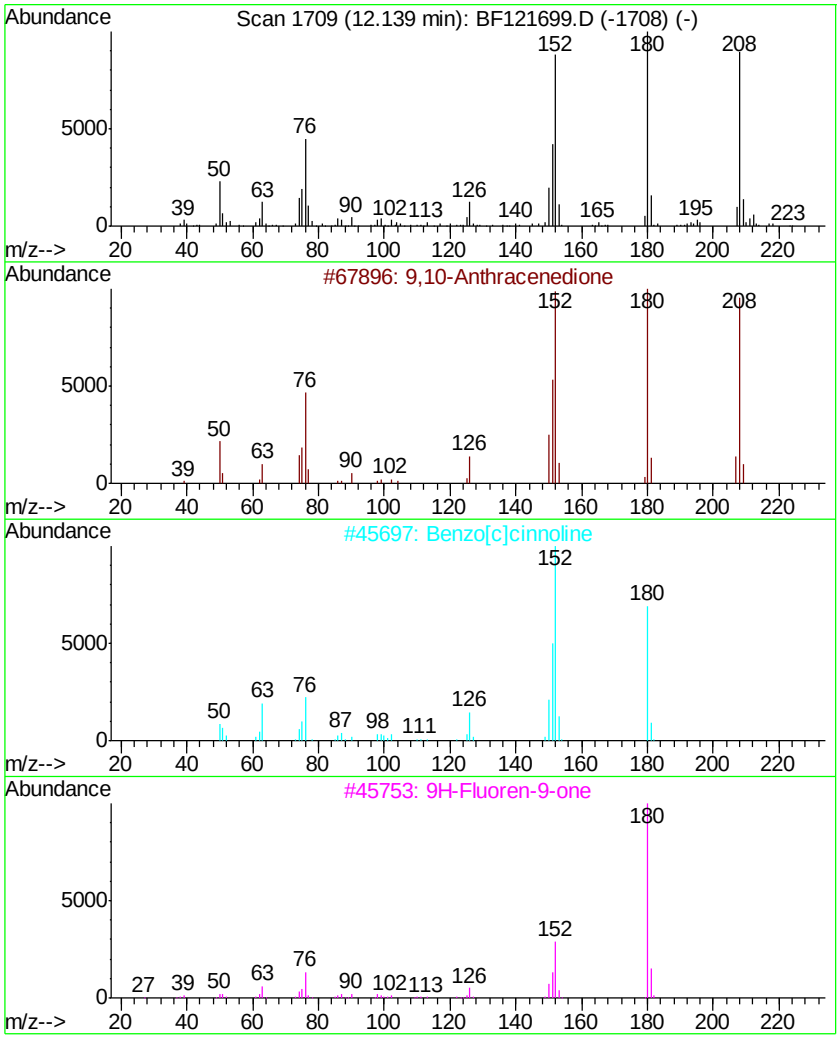
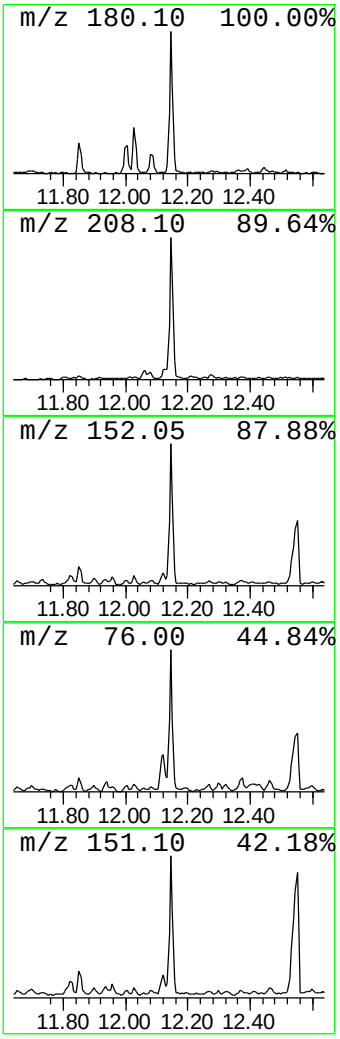
Peak Number 11 9,10-Anthracenedione Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.14	5.75 ng	426041	Phenanthrene-d10	11.33

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	91
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	62
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
5	1,4-Anthracenedione	208	C14H8O2	000635-12-1	58





Library Search Compound Report

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Operator : JU/CG
Sample : L4152-02 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-3-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.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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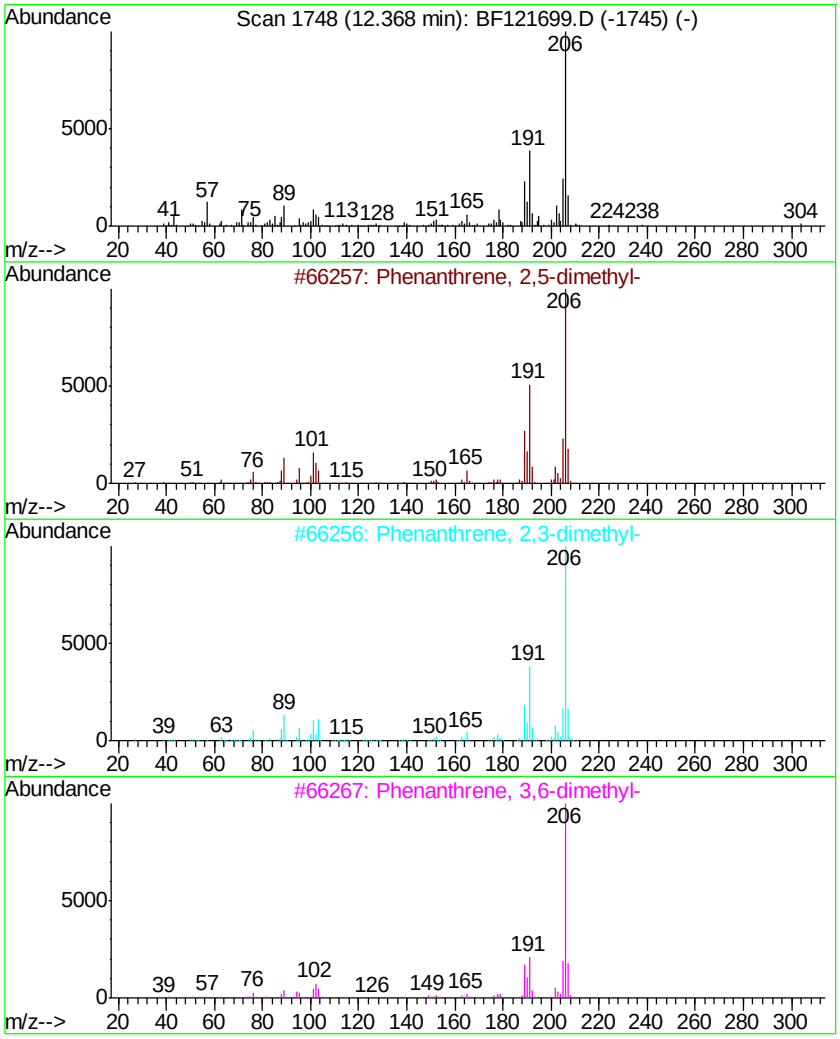
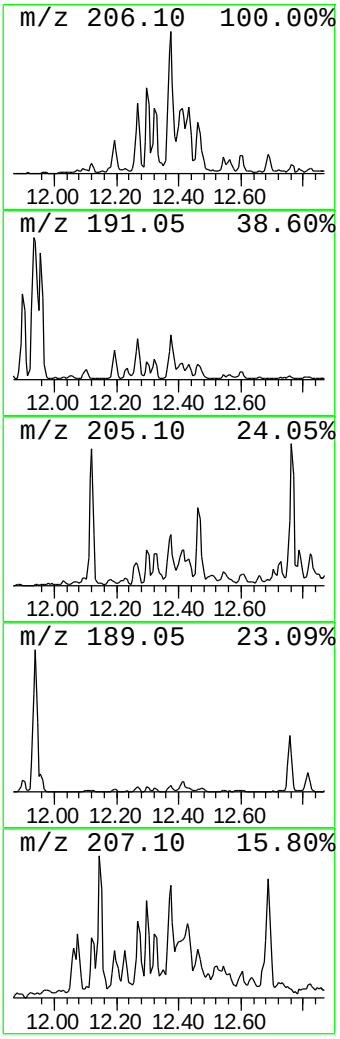
Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.37	4.14 ng	307231	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
4	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	91
5	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	91





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Sample : L4152-02 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-3-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.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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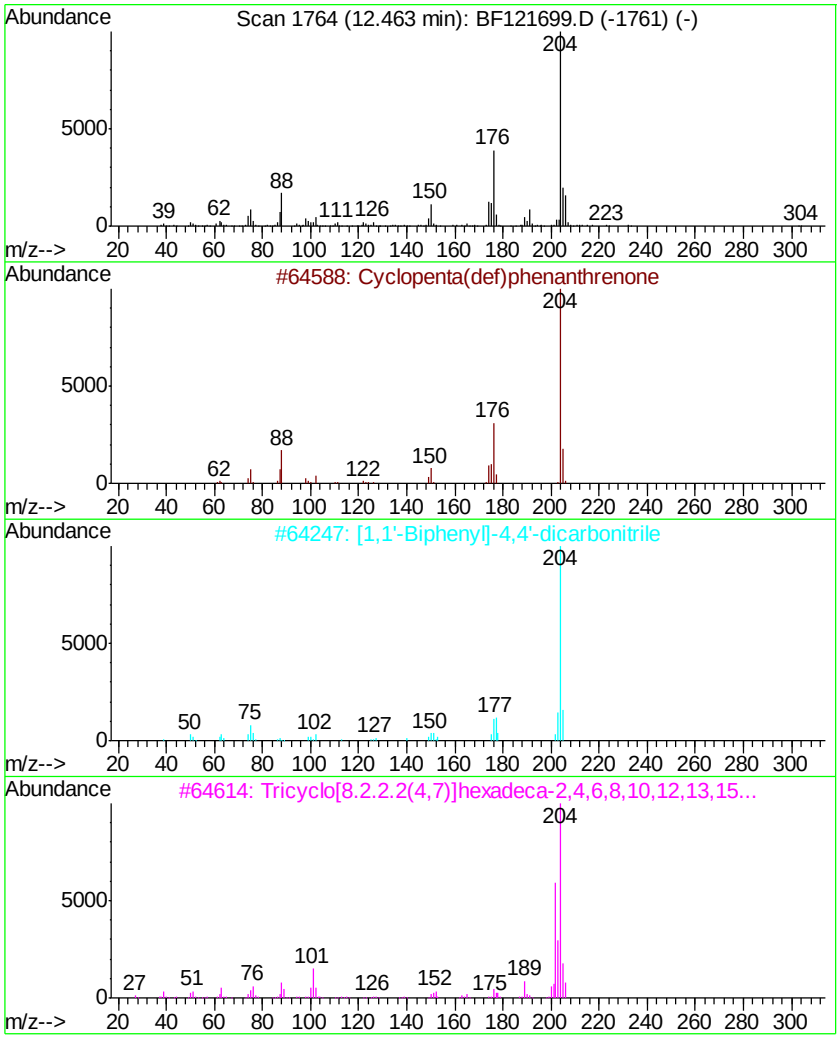
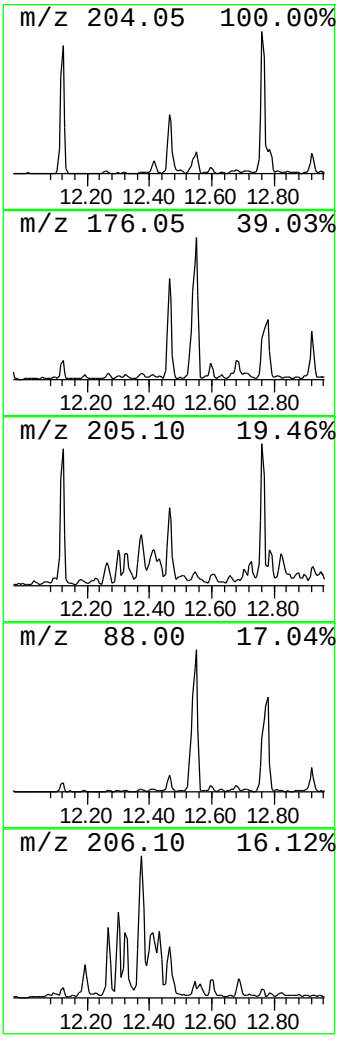
Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	5.31 ng	393684	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	97
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	53
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	50
4	9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	47
5	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	43





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Sample : L4152-02 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-3-4

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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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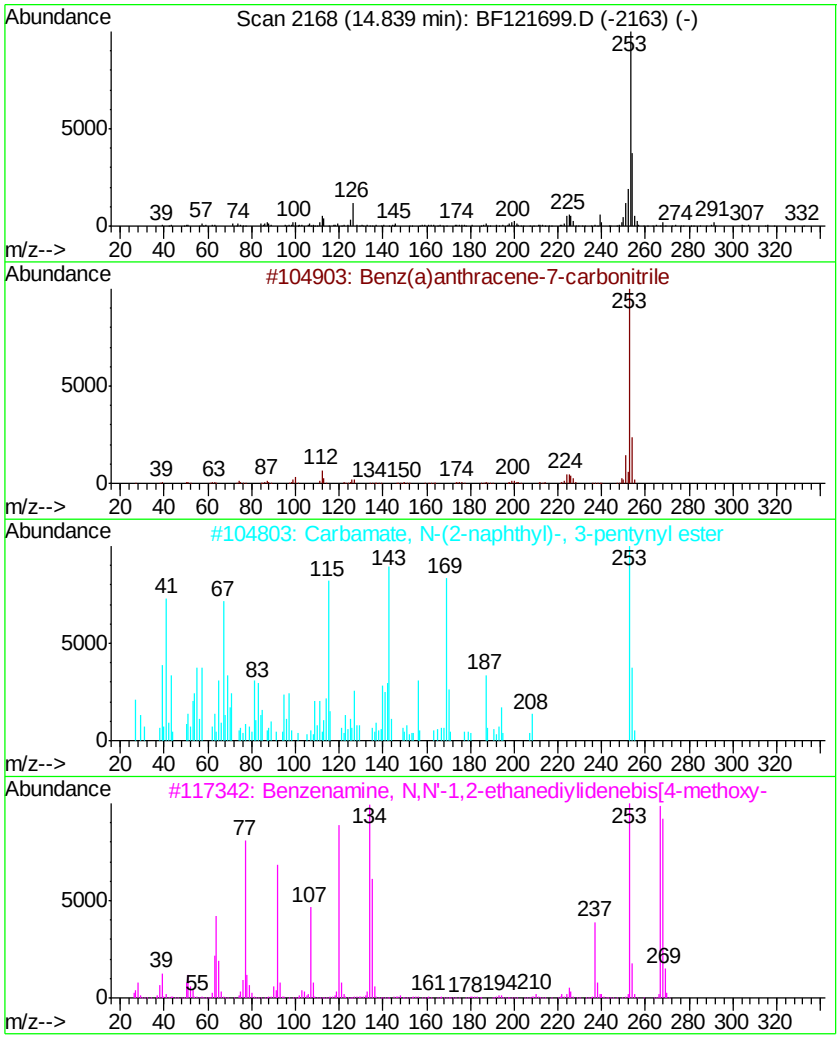
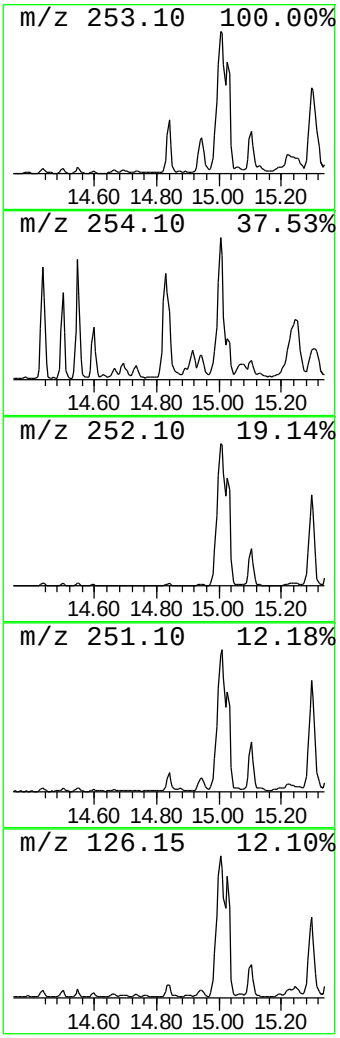
Peak Number 14 Benz(a)anthracene-7-carboni... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.84	7.93 ng	408357	Perylene-d12	15.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	64
2	Carbamate, N-(2-naphthyl)-, 3-pe...	253	C16H15NO2	1000197-96-0	47
3	Benzenamine, N,N'-1,2-ethanediyl...	268	C16H16N2O2	024764-91-8	43
4	Imidazole, 2-iodo-5-methyl-4-nitro-	253	C4H4IN3O2	149510-86-1	43
5	7,12-Dihydrobenzo[k]fluoranthene	254	C20H14	1000080-17-7	43





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Misc :
ALS Vial : 8 Sample Multiplier: 1

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ClientSampleId : WR-PILE-3-4

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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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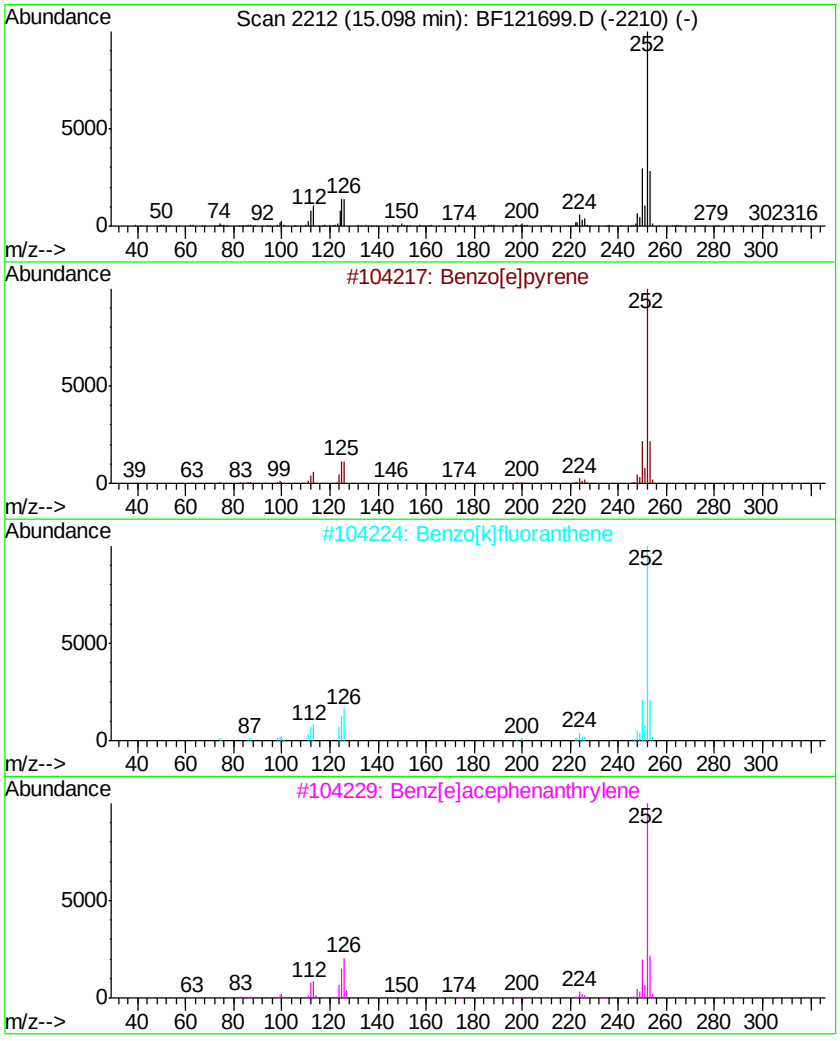
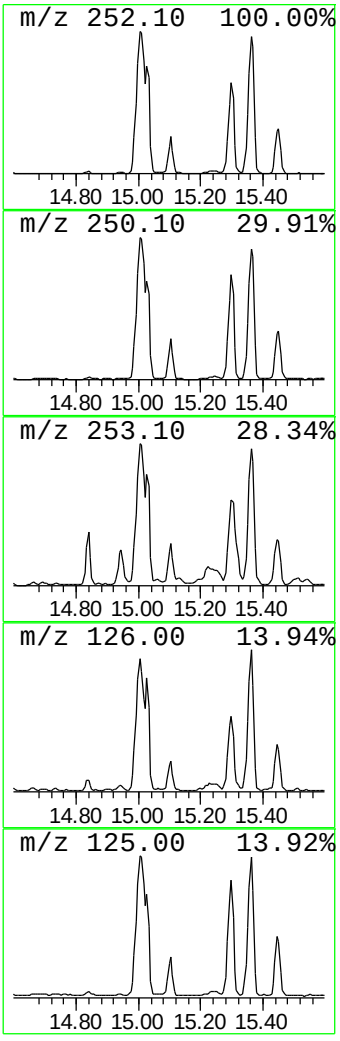
Peak Number 15 Benzo[e]pyrene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.10	9.36 ng	481801	Perylene-d12	15.42

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	97
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
4	Benzo[a]pyrene	252	C20H12	000050-32-8	91
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	89





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Acq On : 25 Sep 2020 16:55
Operator : JU/CG
Sample : L4152-02 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-3-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.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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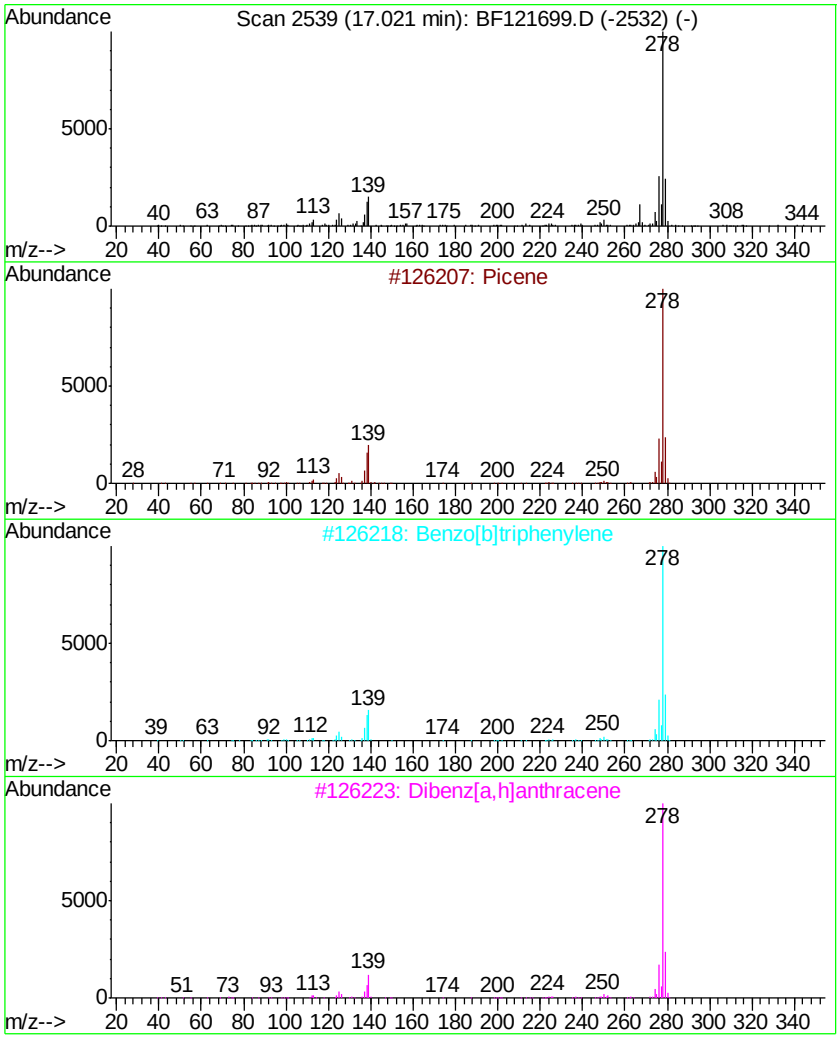
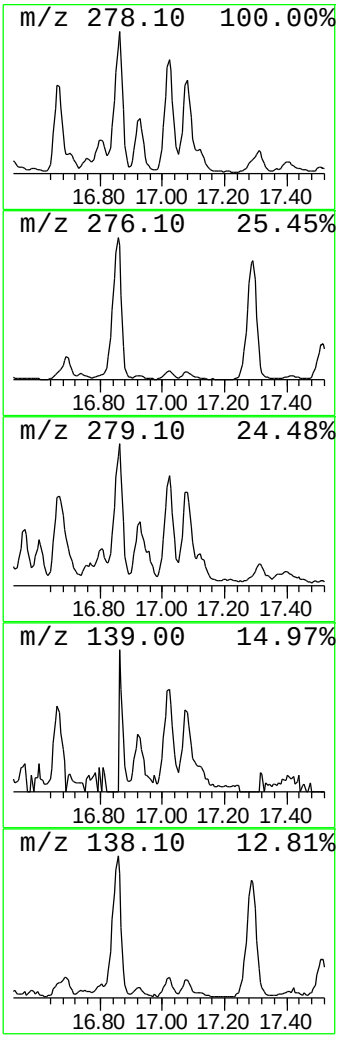
Peak Number 18 Picene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.02	9.70 ng	499260	Perylene-d12	15.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Picene	278	C22H14	000213-46-7	98
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	98
3	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	95
4	Benzo[b]chrysene	278	C22H14	000214-17-5	95
5	Pentaphene	278	C22H14	000222-93-5	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092520\
Data File : BF121699.D
Acq On : 25 Sep 2020 16:55
Operator : JU/CG
Sample : L4152-02 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-3-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.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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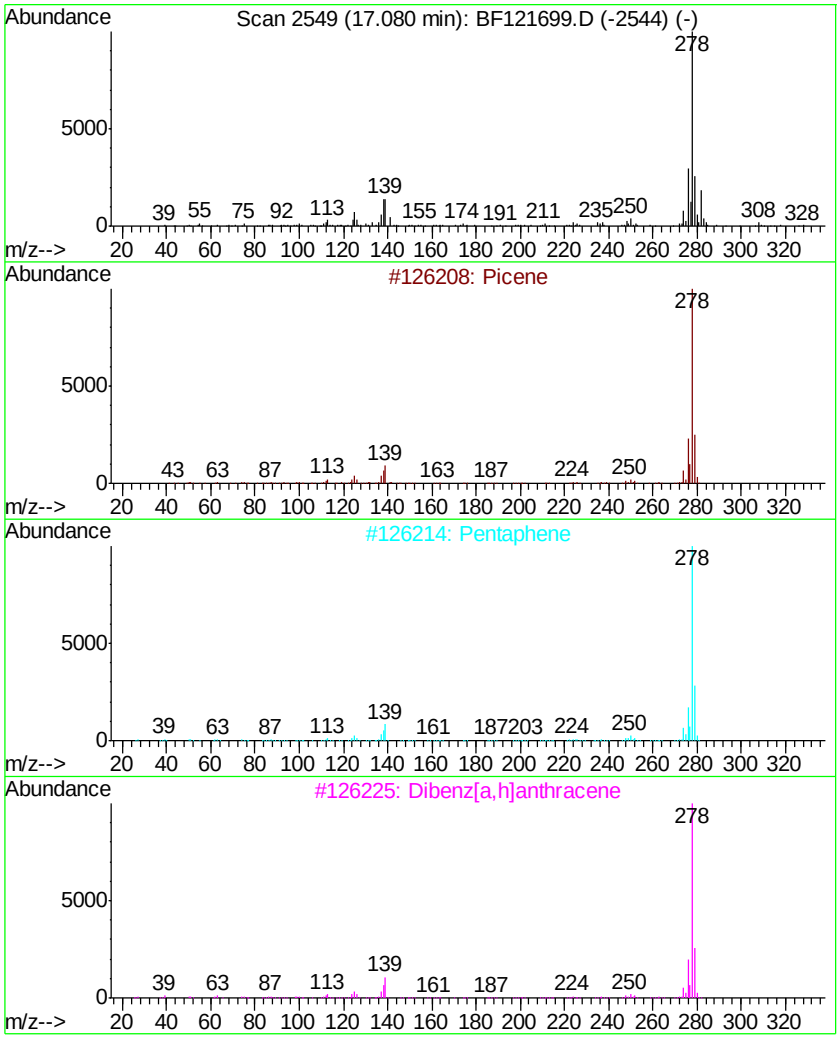
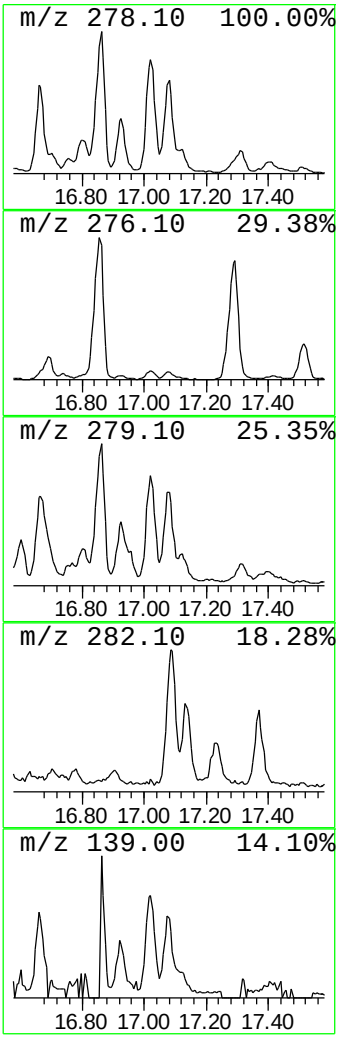
Peak Number 19 Pentaphene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.08	5.26 ng	270753	Perylene-d12	15.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Picene	278	C22H14	000213-46-7	98
2	Pentaphene	278	C22H14	000222-93-5	97
3	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	97
4	Benzo[b]chrysene	278	C22H14	000214-17-5	97
5	Benzo[b]triphenylene	278	C22H14	000215-58-7	96





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF092520\
Data File : BF121699.D
Acq On : 25 Sep 2020 16:55
Operator : JU/CG
Sample : L4152-02 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-3-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.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
3-Penten-2-one, 4...	4.35	16.5	ng	756691	1	6.80	919276	20.0
2-Pentanone, 4-hy...	4.99	9.0	ng	414724	1	6.80	919276	20.0
Dibenzofuran, 4-m...	10.62	4.2	ng	311871	4	11.33	1482510	20.0
9H-Fluoren-9-one	11.13	4.8	ng	358363	4	11.33	1482510	20.0
Naphtho[2,1-b]thi...	11.22	6.5	ng	479277	4	11.33	1482510	20.0
Phenanthrene, 2-m...	11.82	8.8	ng	655150	4	11.33	1482510	20.0
Phenanthrene, 1-m...	11.85	11.2	ng	829105	4	11.33	1482510	20.0
1H-Cyclopropa[l]p...	11.90	4.8	ng	354889	4	11.33	1482510	20.0
4H-Cyclopenta[def...	11.94	18.8	ng	1395190	4	11.33	1482510	20.0
Naphthalene, 2-ph...	12.12	8.0	ng	592671	4	11.33	1482510	20.0
9,10-Anthracenedione	12.14	5.8	ng	426041	4	11.33	1482510	20.0
Phenanthrene, 2,5...	12.37	4.1	ng	307231	4	11.33	1482510	20.0
Cyclopenta(def)ph...	12.46	5.3	ng	393684	4	11.33	1482510	20.0
Benz(a)anthracene...	14.84	7.9	ng	408357	6	15.42	1029330	20.0
Benzo[e]pyrene	15.10	9.4	ng	481801	6	15.42	1029330	20.0
Picene	17.02	9.7	ng	499260	6	15.42	1029330	20.0
Pentaphene	17.08	5.3	ng	270753	6	15.42	1029330	20.0