LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112320\
Data File : BF122450.D
Acq On : 23 Nov 2020 16:46
Operator : JU/CG
Sample : L4836-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-04

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-BF110920.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF122450.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.140	3	9	14	rVB	423080	522273	15.36%	1.169%
2	2.246	23	27	32	rVB	40863	50700	1.49%	0.113%
3	4.451	396	402	410	rBV	55671	67362	1.98%	0.151%
4	5.075	502	508	511	rBV	1552779	1777393	52.26%	3.979%
5	5.481	573	577	581	rBV	2997484	3034205	89.21%	6.792%
6	5.875	640	644	649	rVB	194841	155005	4.56%	0.347%
7	6.492	744	749	764	rBV	3203770	3219191	94.65%	7.206%
8	6.692	779	783	788	rBV2	36057	45771	1.35%	0.102%
9	6.863	808	812	815	rBV	1355171	1044188	30.70%	2.338%
10	7.422	902	907	910	rBV	2185698	1982226	58.28%	4.437%
11	8.151	1026	1031	1033	rBV	1398294	1296726	38.13%	2.903%
12	9.228	1209	1214	1217	rBV	3943396	3401179	100.00%	7.614%
13	9.622	1278	1281	1288	rVB	293767	278845	8.20%	0.624%
14	9.904	1322	1329	1333	rBV	1582566	1519251	44.67%	3.401%
15	9.939	1333	1335	1339	rVB	133084	107233	3.15%	0.240%
16	10.110	1360	1364	1368	rBV	65448	63018	1.85%	0.141%
17	10.457	1418	1423	1428	rBV	106183	113881	3.35%	0.255%
18	10.692	1459	1463	1476	rBV	2299759	2396189	70.45%	5.364%
19	10.816	1481	1484	1488	rBV2	40222	45414	1.34%	0.102%
20	11.004	1507	1516	1518	rBV5	49628	85758	2.52%	0.192%
21	11.198	1546	1549	1553	rVB	58521	54609	1.61%	0.122%
22	11.257	1553	1559	1563	rBV4	114525	161932	4.76%	0.363%
23	11.292	1563	1565	1571	rVB	92324	84164	2.47%	0.188%
24	11.392	1578	1582	1584	rBV	1528614	1464510	43.06%	3.278%
25	11.416	1584	1586	1590	rVV	1355533	1252305	36.82%	2.803%
26	11.469	1592	1595	1599	rVB	226803	191132	5.62%	0.428%
27	11.627	1616	1622	1624	rBV	88219	105045	3.09%	0.235%
28	11.692	1631	1633	1636	rBV2	69044	52095	1.53%	0.117%
29	11.727	1636	1639	1641	rBV	71710	60049	1.77%	0.134%
30	11.810	1650	1653	1656	rVB	45646	44092	1.30%	0.099%
31	11.898	1663	1668	1670	rBV	336665	287697	8.46%	0.644%
32	11.927	1670	1673	1677	rVV	741409	695652	20.45%	1.557%
33	11.974	1677	1681	1683	rVV	118872	147771	4.34%	0.331%
34	12.010	1683	1687	1689	rVV2	384345	435117	12.79%	0.974%
35	12.033	1689	1691	1696	rVB	242347	204505	6.01%	0.458%
36	12.098	1700	1702	1705	rVB2	53843	49708	1.46%	0.111%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112320\
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Acq On : 23 Nov 2020 16:46
Operator : JU/CG
Sample : L4836-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-04

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-BF110920.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	12.192	1710	1718	1720	rVV	162120	181013	5.32%	0.405%
38	12.216	1720	1722	1729	rVB	107757	102150	3.00%	0.229%
39	12.345	1741	1744	1746	rVB	82105	69671	2.05%	0.156%
40	12.374	1746	1749	1751	rBV	62244	51495	1.51%	0.115%
41	12.398	1751	1753	1756	rVB	66815	50628	1.49%	0.113%
42	12.451	1758	1762	1764	rBV	193347	201927	5.94%	0.452%
43	12.486	1764	1768	1773	rVB2	144813	210765	6.20%	0.472%
44	12.533	1773	1776	1781	rVB4	103114	138625	4.08%	0.310%
45	12.610	1785	1789	1794	rBV	1322111	1093112	32.14%	2.447%
46	12.674	1798	1800	1804	rVB2	45963	42277	1.24%	0.095%
47	12.710	1804	1806	1808	rBV2	75740	67060	1.97%	0.150%
48	12.763	1813	1815	1818	rVB2	47090	44644	1.31%	0.100%
49	12.839	1822	1828	1831	rBV	1462852	1426199	41.93%	3.193%
50	12.886	1834	1836	1842	rVB3	67364	107809	3.17%	0.241%
51	12.957	1845	1848	1849	rBV	58524	48573	1.43%	0.109%
52	12.986	1849	1853	1856	rBV	3629148	3188593	93.75%	7.138%
53	13.057	1861	1865	1869	rBV3	143748	197574	5.81%	0.442%
54	13.169	1877	1884	1887	rVB	217061	351770	10.34%	0.787%
55	13.233	1890	1895	1898	rVB2	137094	144347	4.24%	0.323%
56	13.269	1898	1901	1904	rBV	221976	230812	6.79%	0.517%
57	13.298	1904	1906	1909	rVB	75207	64160	1.89%	0.144%
58	13.363	1914	1917	1920	rVV	152295	133166	3.92%	0.298%
59	13.398	1920	1923	1926	rVB	153885	142999	4.20%	0.320%
60	13.568	1949	1952	1955	rBV4	53590	63206	1.86%	0.141%
61	13.674	1967	1970	1975	rVB	127016	146002	4.29%	0.327%
62	13.786	1984	1989	1992	rBV2	141148	215494	6.34%	0.482%
63	13.816	1992	1994	1996	rVV	103166	78354	2.30%	0.175%
64	13.898	2003	2008	2016	rVB2	234352	427585	12.57%	0.957%
65	14.039	2027	2032	2035	rBV2	1559374	1909527	56.14%	4.275%
66	14.063	2035	2036	2044	rVB	651700	519269	15.27%	1.162%
67	14.145	2048	2050	2052	rVB	62913	43360	1.27%	0.097%
68	14.298	2074	2076	2078	rVB2	53598	43453	1.28%	0.097%
69	14.392	2089	2092	2094	rBV2	66789	73047	2.15%	0.164%
70	14.427	2094	2098	2101	rVV	293050	326630	9.60%	0.731%
71	14.463	2101	2104	2107	rVV	192550	203935	6.00%	0.457%
72	14.515	2111	2113	2116	rVV2	126864	142065	4.18%	0.318%
73	14.551	2116	2119	2121	rVV2	113275	130956	3.85%	0.293%
74	14.574	2121	2123	2127	rVV2	88970	112998	3.32%	0.253%
75	14.627	2130	2132	2138	rVB2	71243	77928	2.29%	0.174%
76	14.733	2147	2150	2153	rBV3	39612	49077	1.44%	0.110%

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Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-04

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
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If leading or trailing edge < 100 prefer < Baseline drop else tangent >
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Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

77	14.827	2163	2166	2169	rBV3	55274	77426	2.28%	0.173%
78	14.904	2176	2179	2181	rBV2	78695	90292	2.65%	0.202%
79	14.992	2191	2194	2199	rVB3	50329	66551	1.96%	0.149%
80	15.086	2205	2210	2218	rBV	396527	731279	21.50%	1.637%
81	15.192	2226	2228	2232	rVB	51832	51157	1.50%	0.115%
82	15.286	2241	2244	2245	rBV2	36046	42561	1.25%	0.095%
83	15.345	2251	2254	2257	rBV3	34878	42914	1.26%	0.096%
84	15.392	2258	2262	2268	rVB	358829	453318	13.33%	1.015%
85	15.451	2268	2272	2278	rVB	405618	495670	14.57%	1.110%
86	15.521	2279	2284	2287	rBV	984346	1234837	36.31%	2.764%
87	15.551	2287	2289	2296	rVB4	124589	206188	6.06%	0.462%
88	15.839	2335	2338	2342	rBV2	75767	91237	2.68%	0.204%
89	15.880	2342	2345	2352	rVB	82186	129372	3.80%	0.290%
90	15.962	2354	2359	2363	rBV2	44366	79062	2.32%	0.177%
91	16.004	2363	2366	2371	rBV3	53587	84634	2.49%	0.189%
92	16.086	2376	2380	2384	rBV3	43277	75536	2.22%	0.169%
93	16.333	2419	2422	2427	rBV3	34211	59017	1.74%	0.132%
94	16.809	2498	2503	2505	rBV3	40172	66526	1.96%	0.149%
95	16.992	2528	2534	2543	rVB2	181132	419027	12.32%	0.938%
96	17.174	2561	2565	2569	rVB2	51628	76507	2.25%	0.171%
97	17.227	2570	2574	2578	rBV2	60606	96826	2.85%	0.217%
98	17.433	2602	2609	2623	rVB	199713	484232	14.24%	1.084%
99	17.662	2646	2648	2655	rVB	25529	44464	1.31%	0.100%
100	18.203	2735	2740	2748	rVB4	47607	123803	3.64%	0.277%

Sum of corrected areas: 44670882

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Data File : BF122450.D
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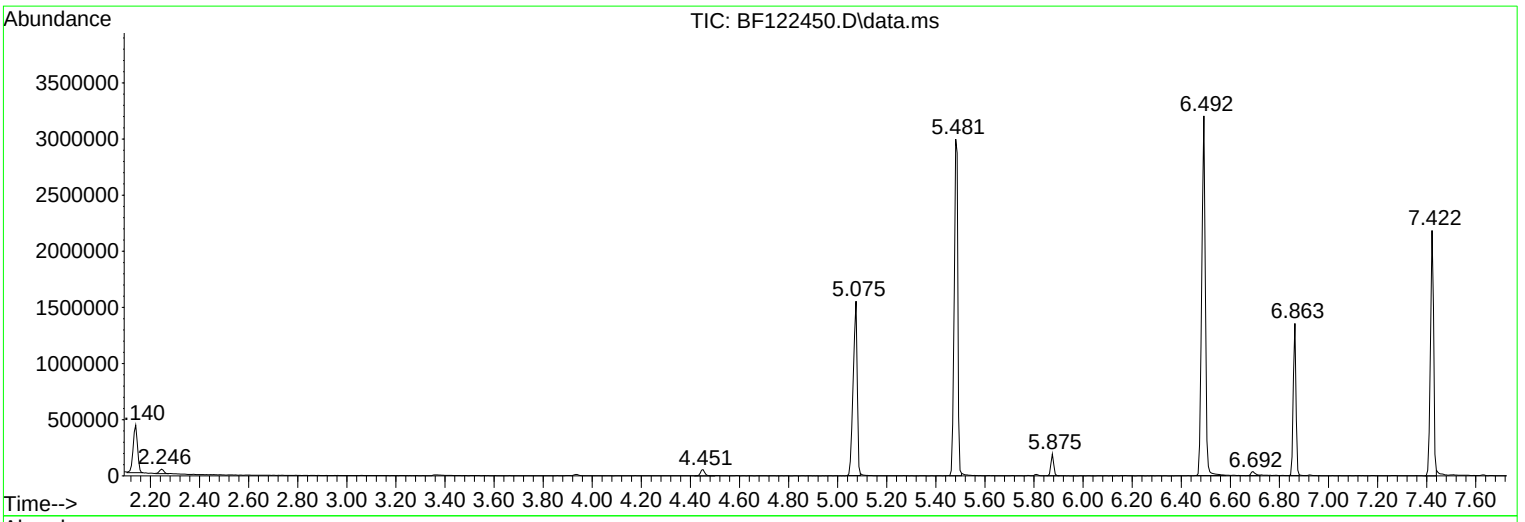
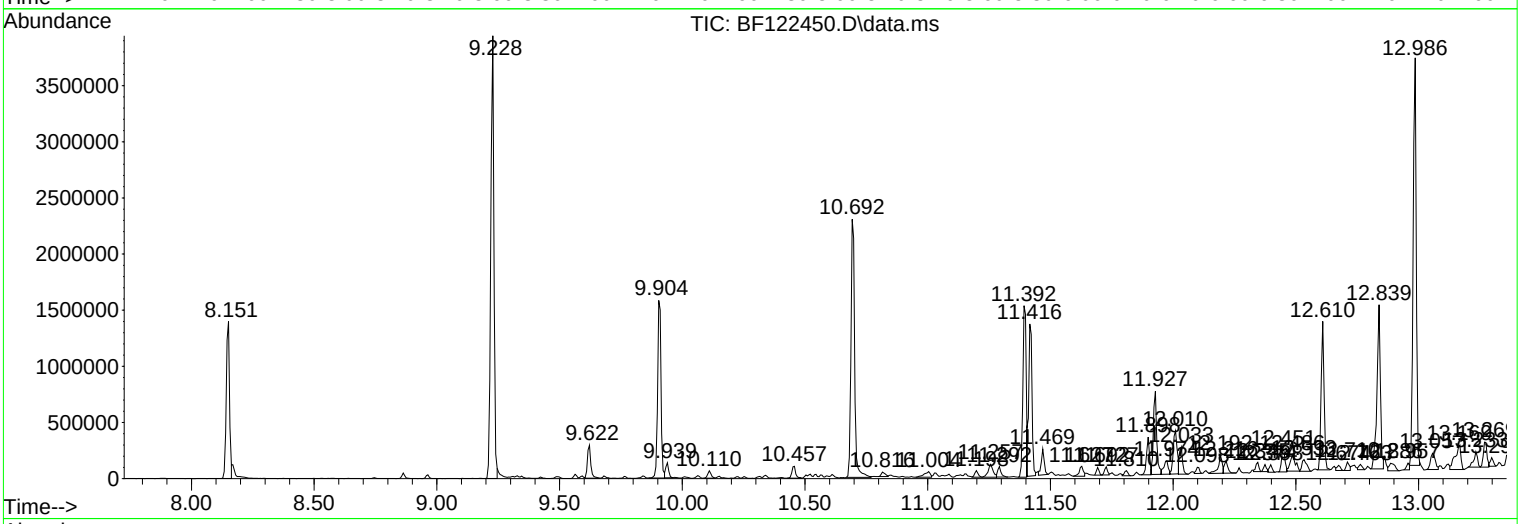
Sample : L4836-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

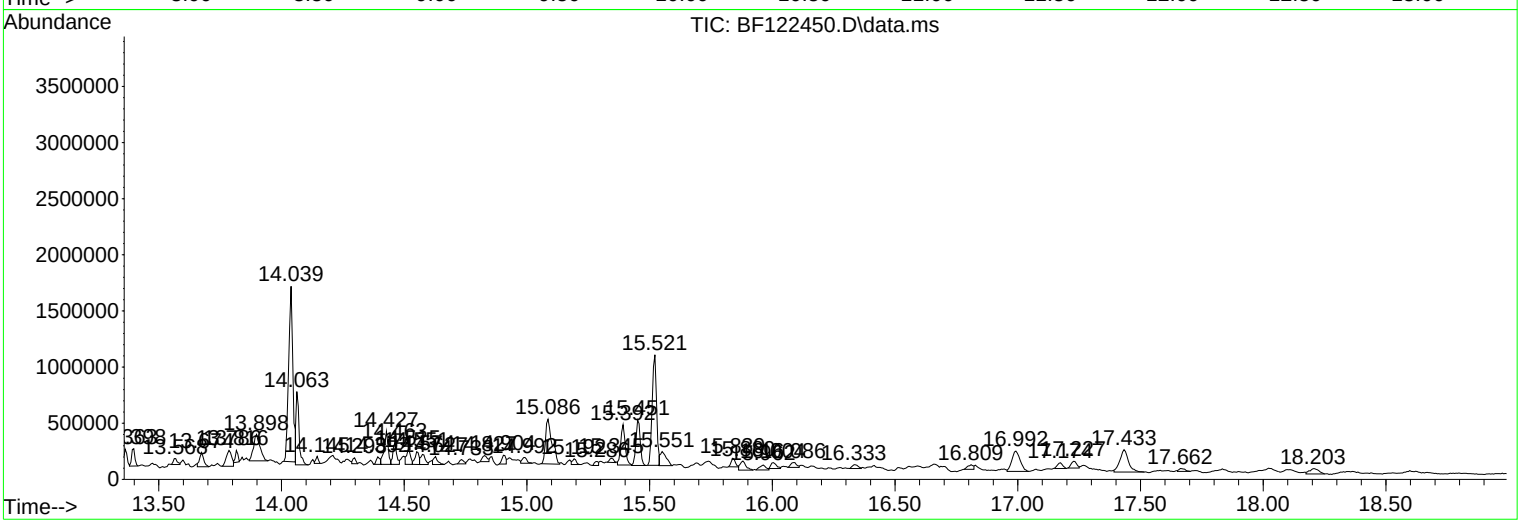
Instrument :
BNA_F
ClientSampleId :
SB-04

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110920.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_F\Data\BF112320\
Data File : BF122450.D
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Sample : L4836-04
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ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-04

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110920.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

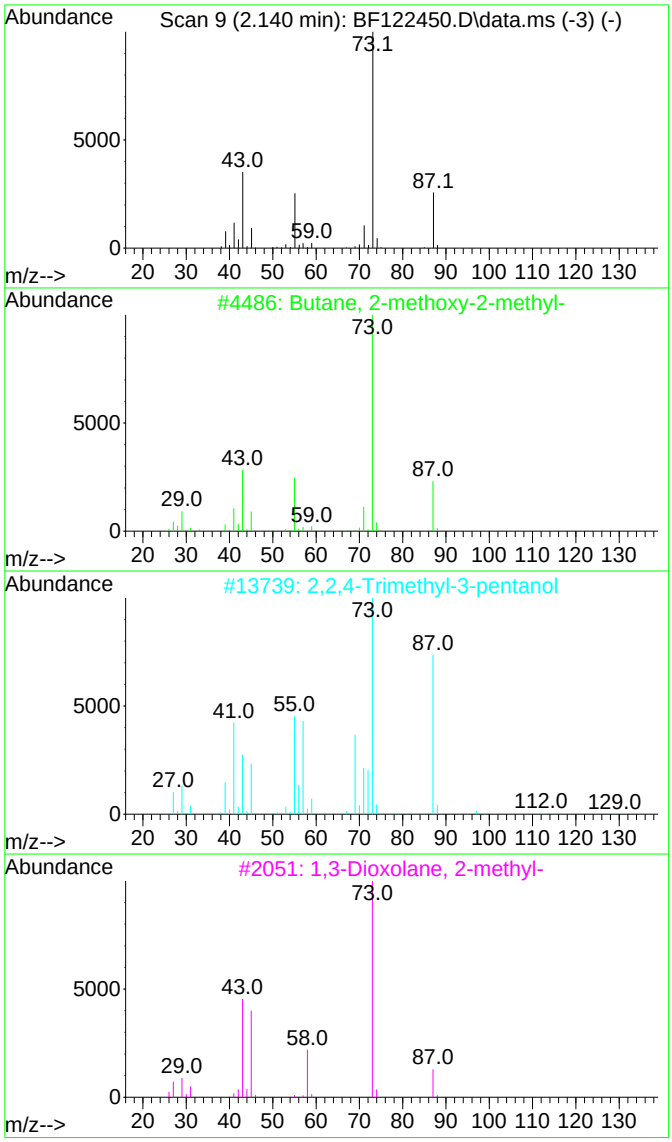
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

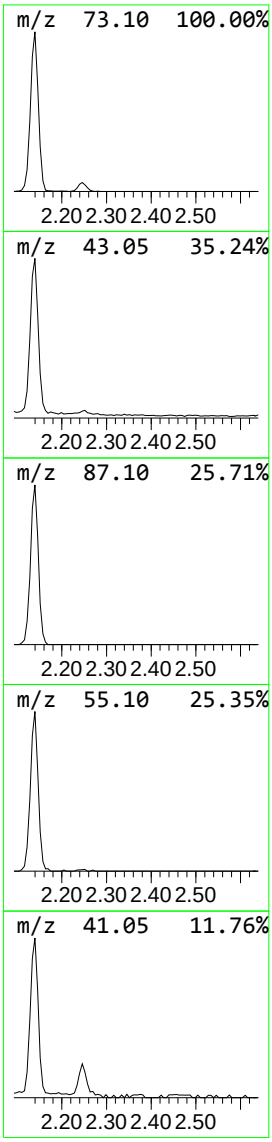
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.140	10.00 ng	522273	1,4-Dichlorobenzene-d4	6.863

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
4	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112320\
Data File : BF122450.D
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Operator : JU/CG
Sample : L4836-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-04

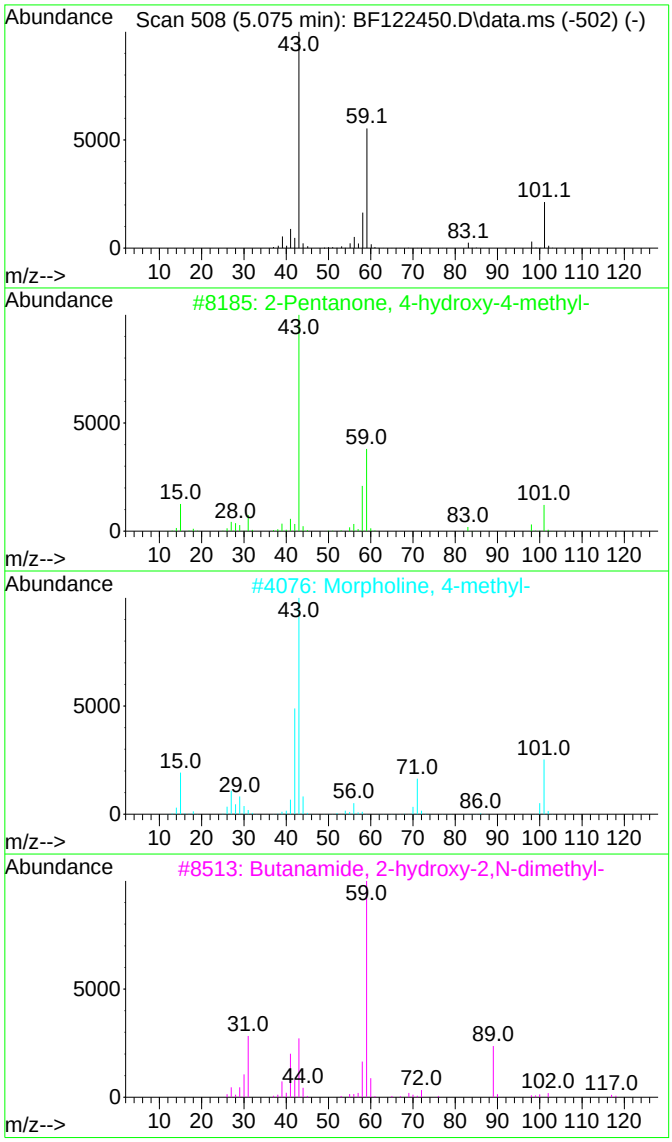
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110920.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

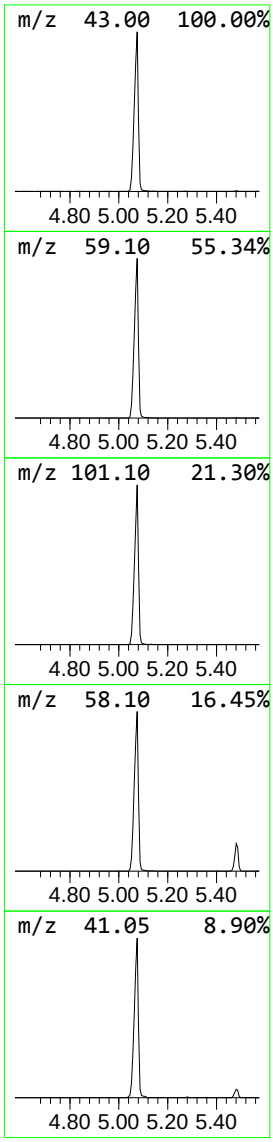
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.075	34.04 ng	1777390	1,4-Dichlorobenzene-d4	6.863

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	53
2	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
3	Butanamide, 2-hydroxy-2,N-dimethyl-	117	C5H11NO2	039961-72-3	9
4	2-Propanone, 1-(1-methylethoxy)-	116	C6H12O2	042781-12-4	9
5	Propanoic acid, 2-nitro-, methyl...	133	C4H7NO4	006118-50-9	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112320\
Data File : BF122450.D
Acq On : 23 Nov 2020 16:46
Operator : JU/CG
Sample : L4836-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-04

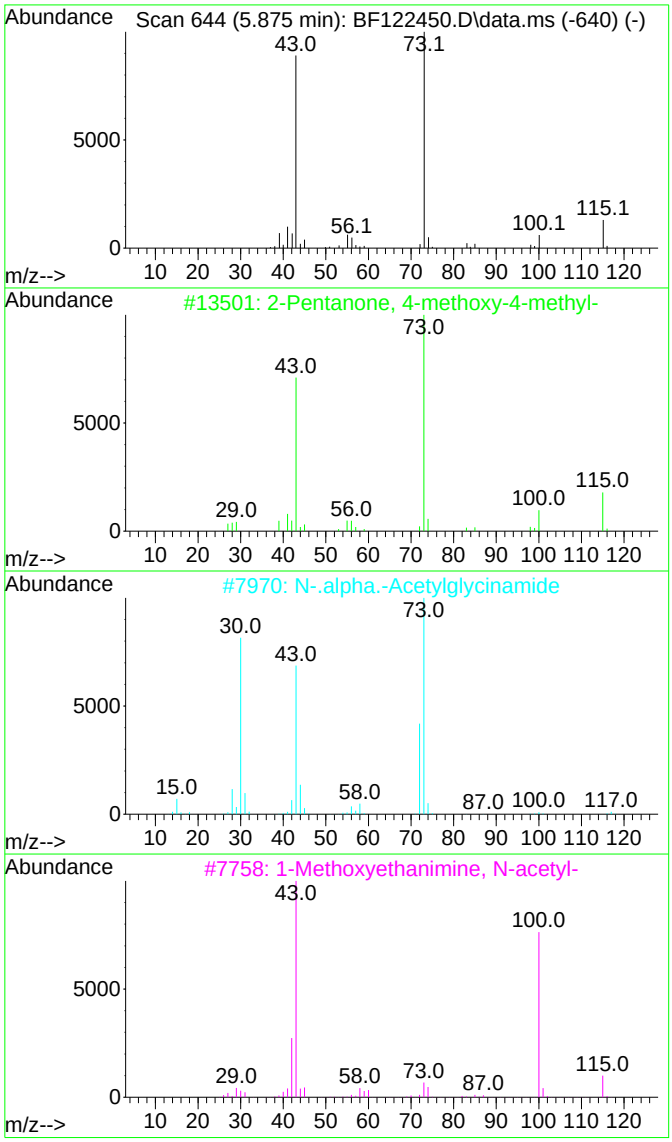
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110920.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

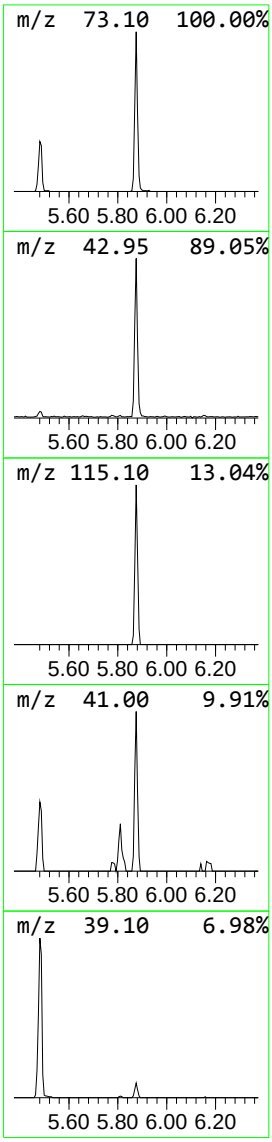
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 2-Pentanone, 4-methoxy-4-me... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.875	2.97 ng	155005	1,4-Dichlorobenzene-d4	6.863

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-methoxy-4-methyl-	130	C7H14O2	000107-70-0	83
2	N-.alpha.-Acetylglycinamide	116	C4H8N2O2	002620-63-5	28
3	1-Methoxyethanimine, N-acetyl-	115	C5H9NO2	099028-43-0	28
4	1,3-Dioxolane, 2-(1-methylethyl)-	116	C6H12O2	000822-83-3	25
5	N-Formylmorpholine	115	C5H9NO2	004394-85-8	10





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112320\
Data File : BF122450.D
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Sample : L4836-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-04

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110920.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

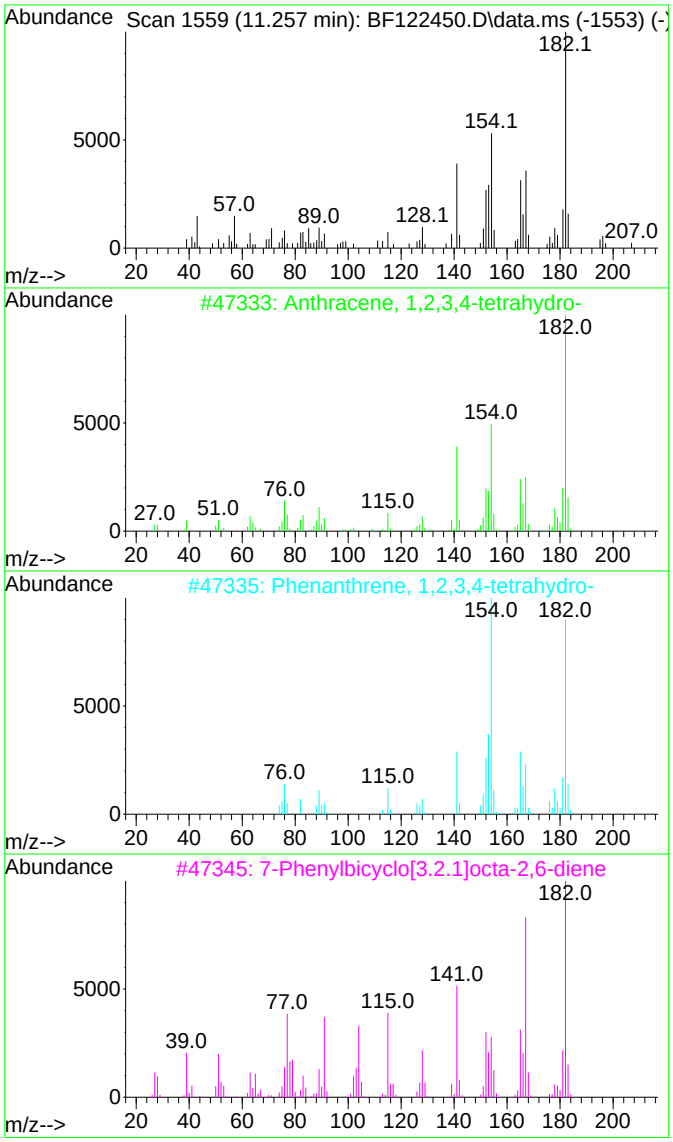
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

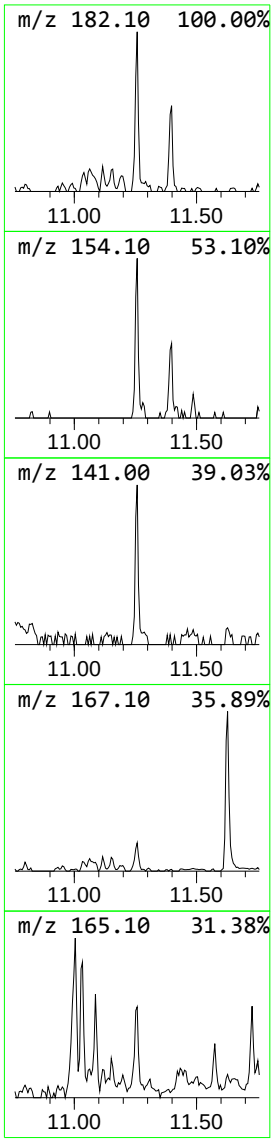
****

Peak Number 4 Anthracene, 1,2,3,4-tetrahy... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.257	2.21 ng	161932	Phenanthrene-d10	11.392

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	97
2	Phenanthrene, 1,2,3,4-tetrahydro-	182	C14H14	001013-08-7	70
3	7-Phenylbicyclo[3.2.1]octa-2,6-d...	182	C14H14	1000201-01-7	59
4	1,1'-Biphenyl, 3,4'-dimethyl-	182	C14H14	007383-90-6	55
5	3,3'-Dimethylbiphenyl	182	C14H14	000612-75-9	55





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112320\
Data File : BF122450.D
Acq On : 23 Nov 2020 16:46
Operator : JU/CG
Sample : L4836-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-04

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110920.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

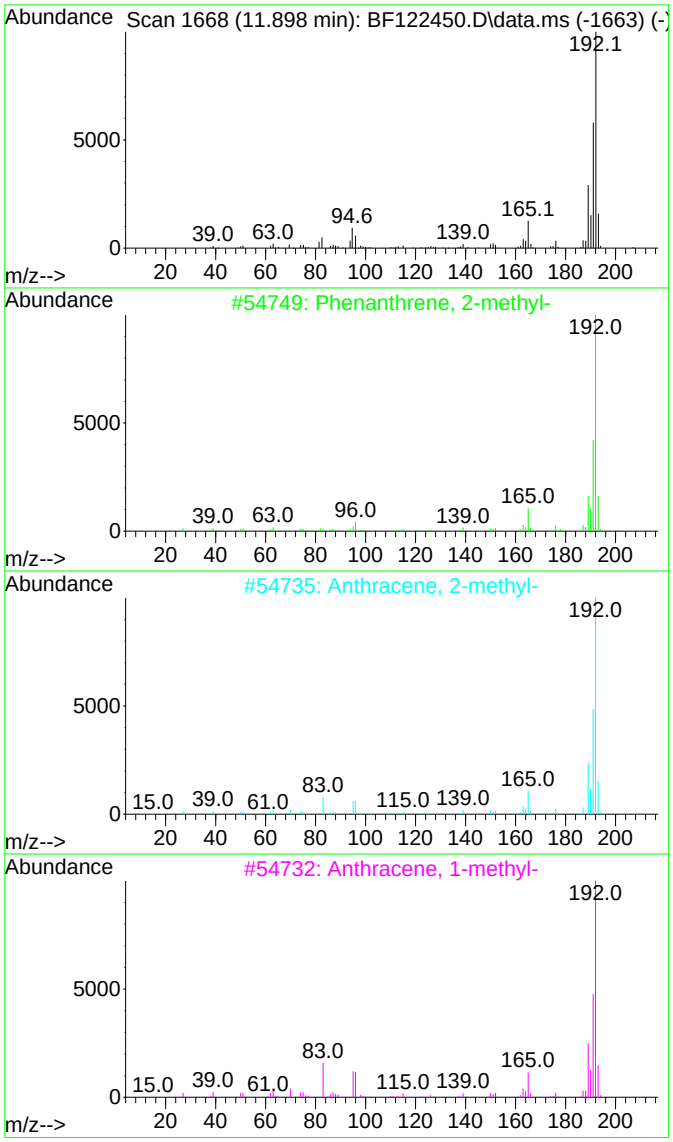
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

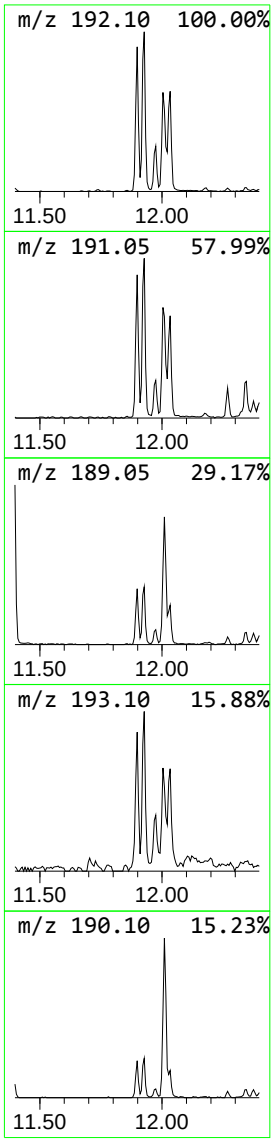
****

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.898	3.93 ng	287697	Phenanthrene-d10	11.392

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, 1-methyl-	192	C15H12	000610-48-0	94
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93





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Operator : JU/CG
Sample : L4836-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-04

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110920.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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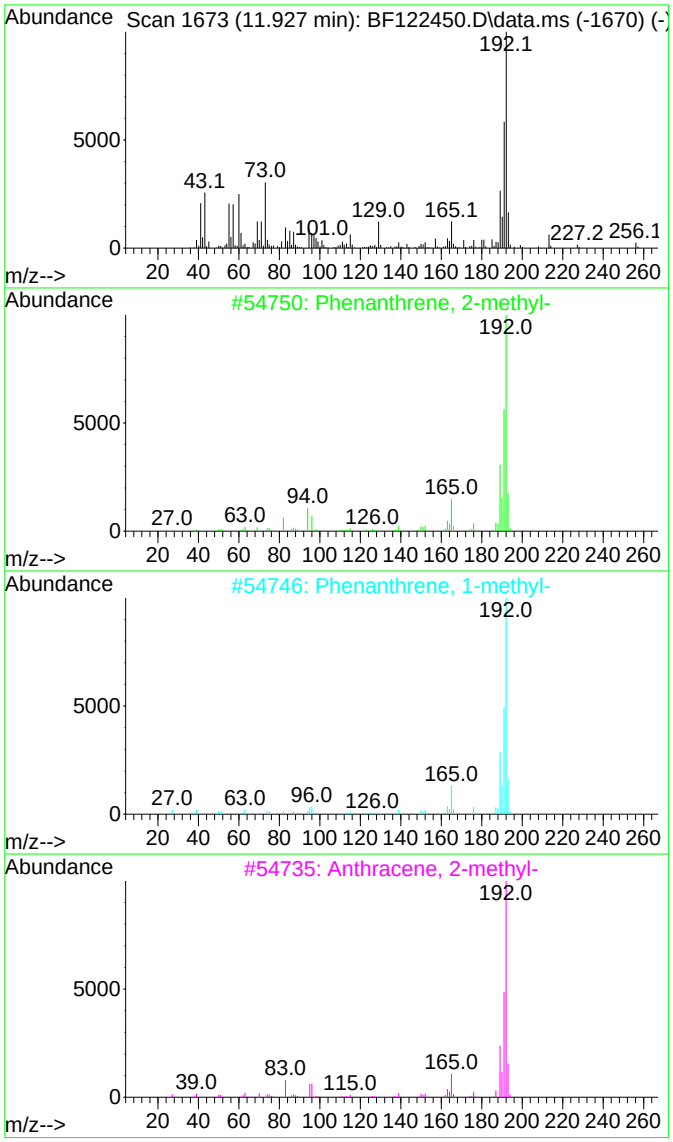
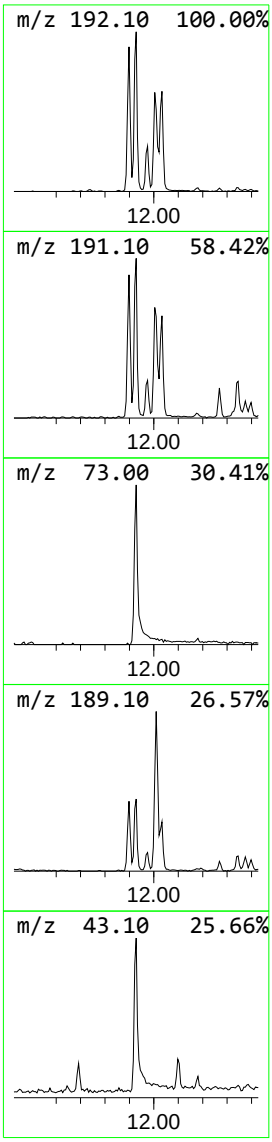
Peak Number 6 Phenanthrene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.927	9.50 ng	695652	Phenanthrene-d10	11.392

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	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	92





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Sample : L4836-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-04

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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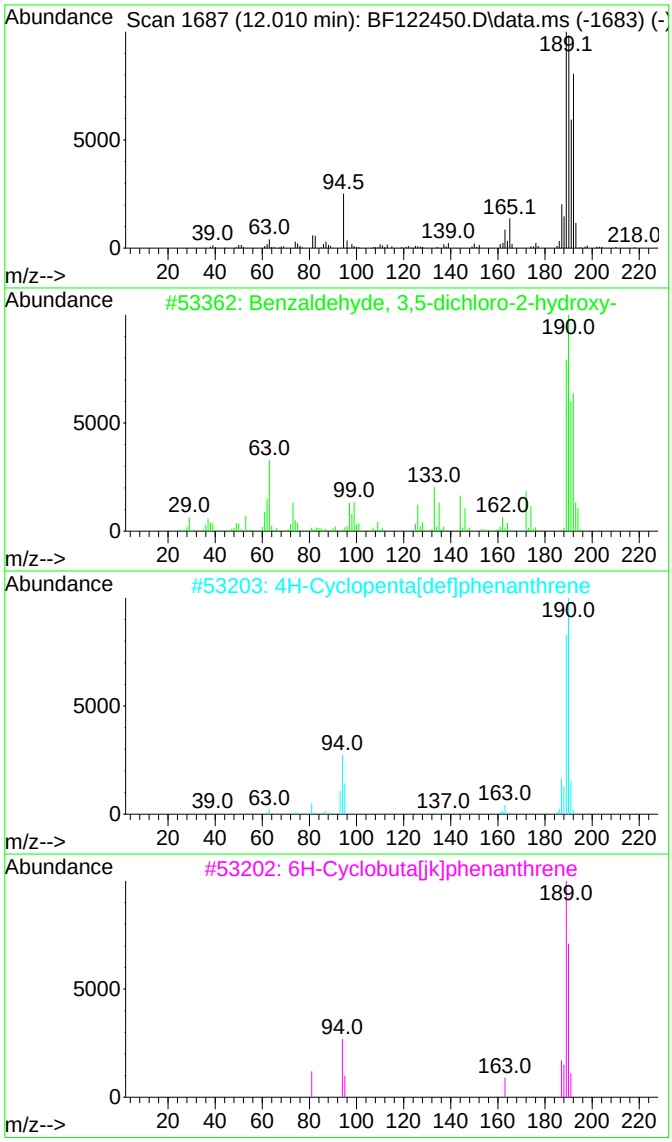
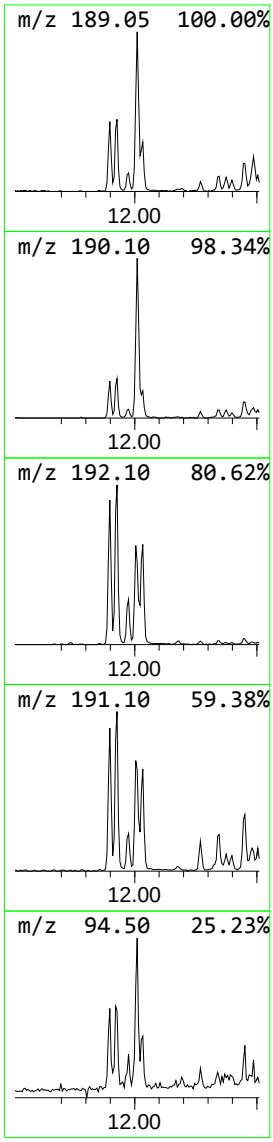
Peak Number 7 Benzaldehyde, 3,5-dichloro-... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.010	5.94 ng	435117	Phenanthrene-d10	11.392

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	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	42
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	38





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Operator : JU/CG
Sample : L4836-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-04

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110920.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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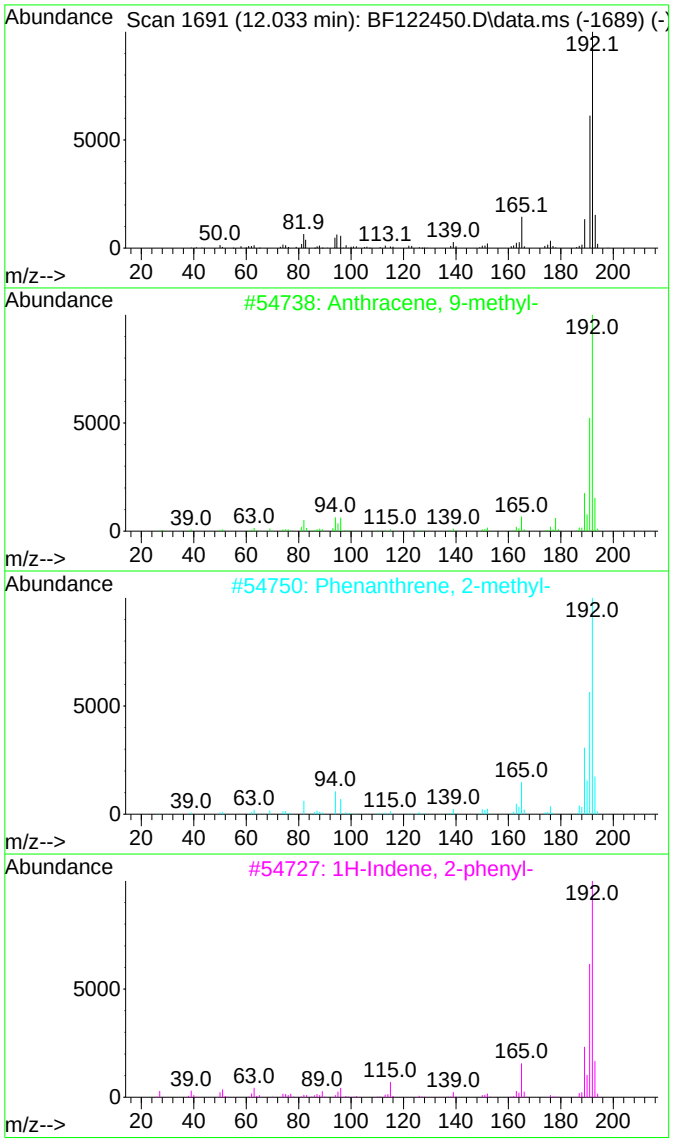
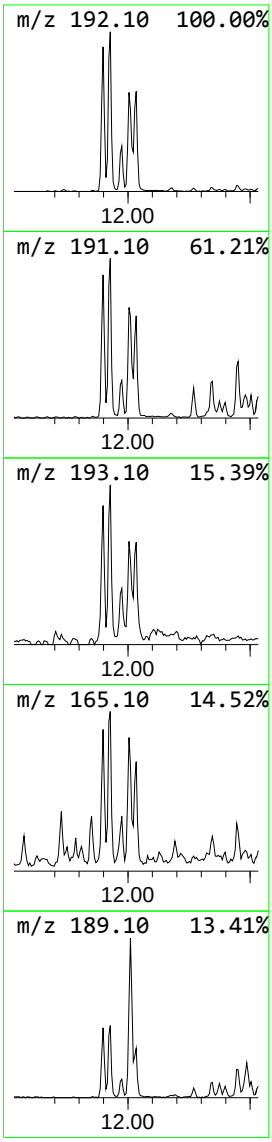
Peak Number 8 Anthracene, 9-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.033	2.79 ng	204505	Phenanthrene-d10	11.392

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-methyl-	192	C15H12	000779-02-2	90
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	90
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	87
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	87
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	87





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Operator : JU/CG
Sample : L4836-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-04

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110920.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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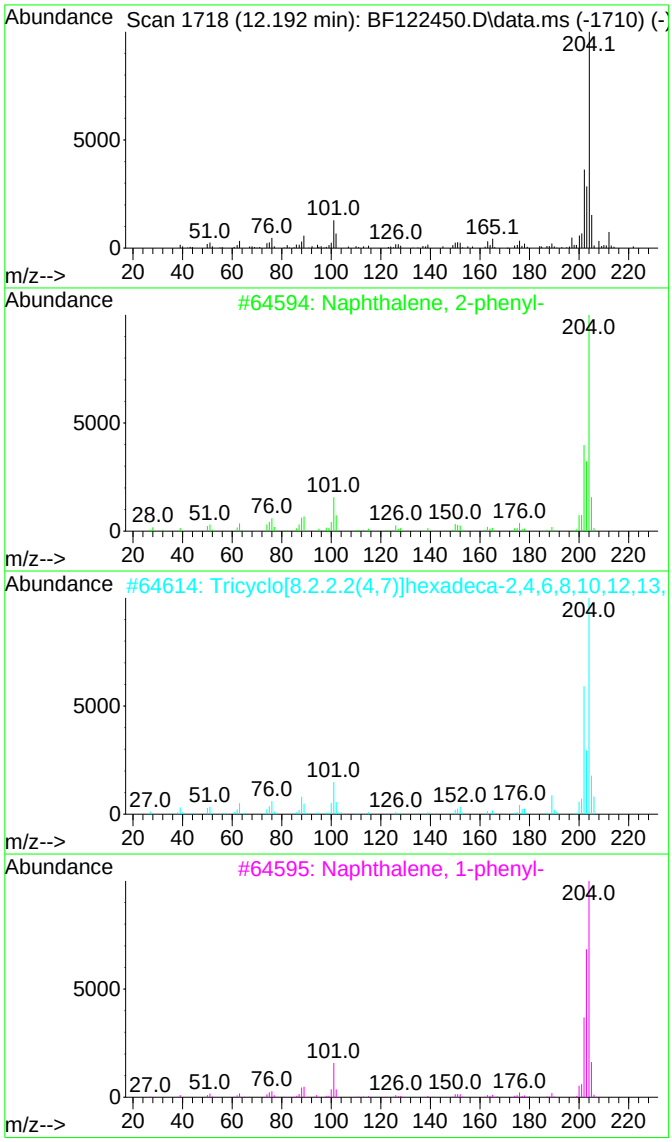
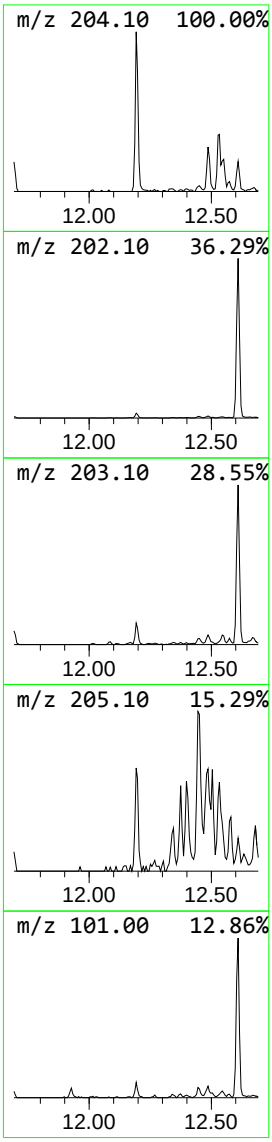
Peak Number 9 Naphthalene, 2-phenyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.192	2.47 ng	181013	Phenanthrene-d10	11.392

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	90
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	53
4	6-Cyanophenanthridine	204	C14H8N2	002176-28-5	53
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	52





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Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
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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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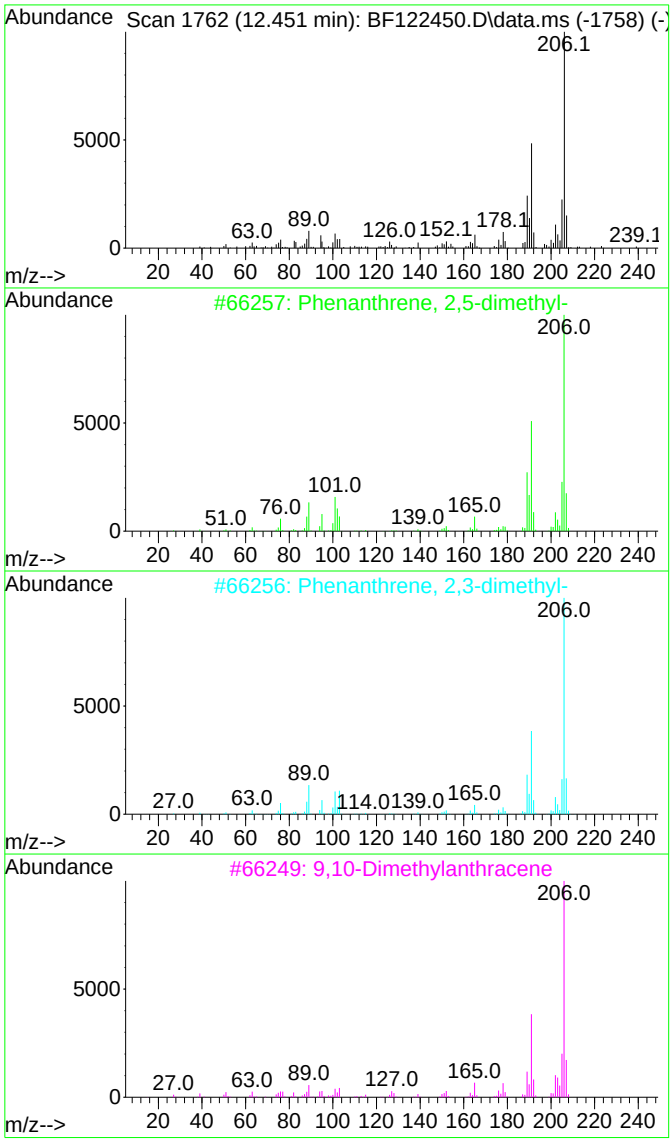
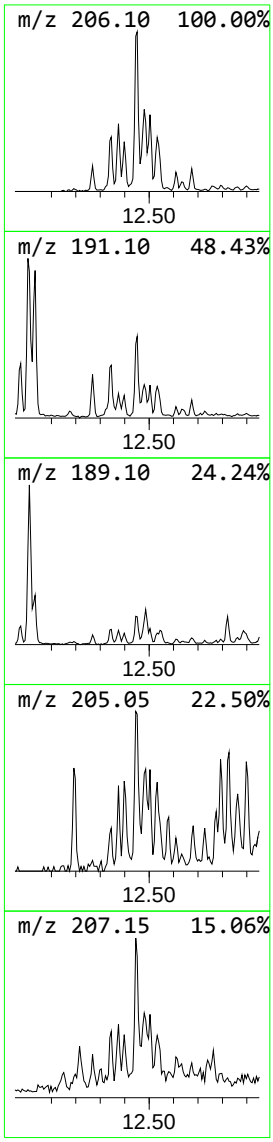
Peak Number 10 Phenanthrene, 2,5-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.451	2.76 ng	201927	Phenanthrene-d10	11.392

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	90
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	89
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	89





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Operator : JU/CG
Sample : L4836-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-04

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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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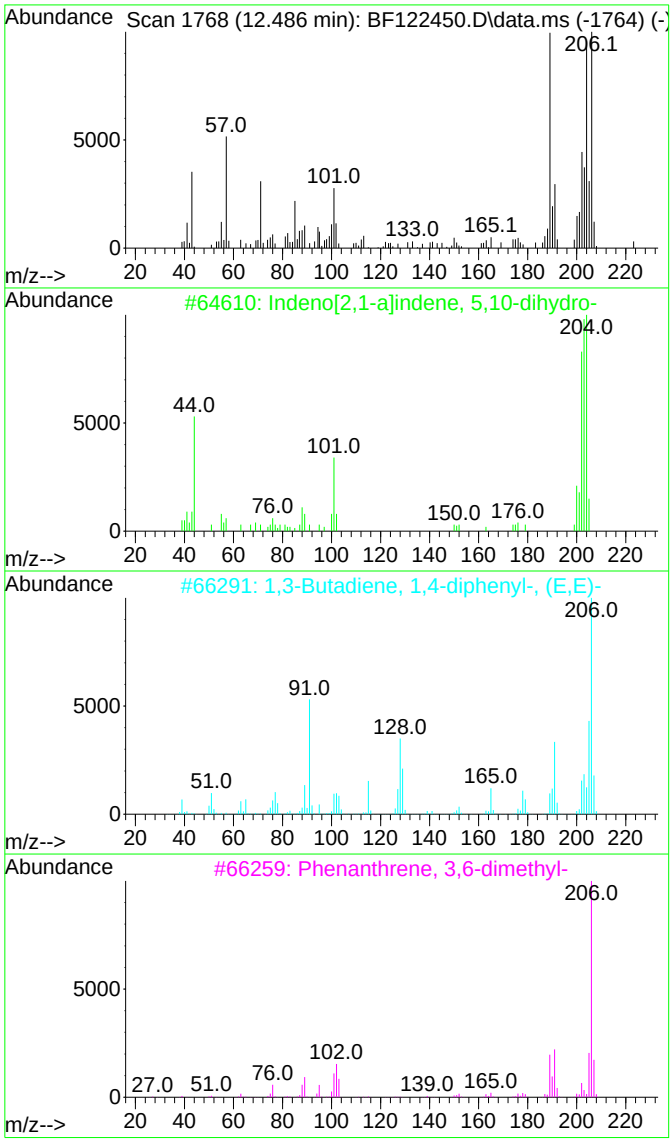
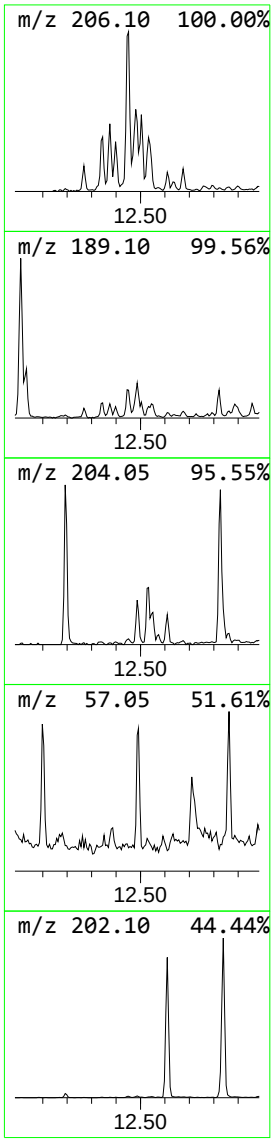
Peak Number 11 unknown12.48 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.486	2.88 ng	210765	Phenanthrene-d10	11.392

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	41
2	1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	38
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	35
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	30
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	30





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Operator : JU/CG
Sample : L4836-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-04

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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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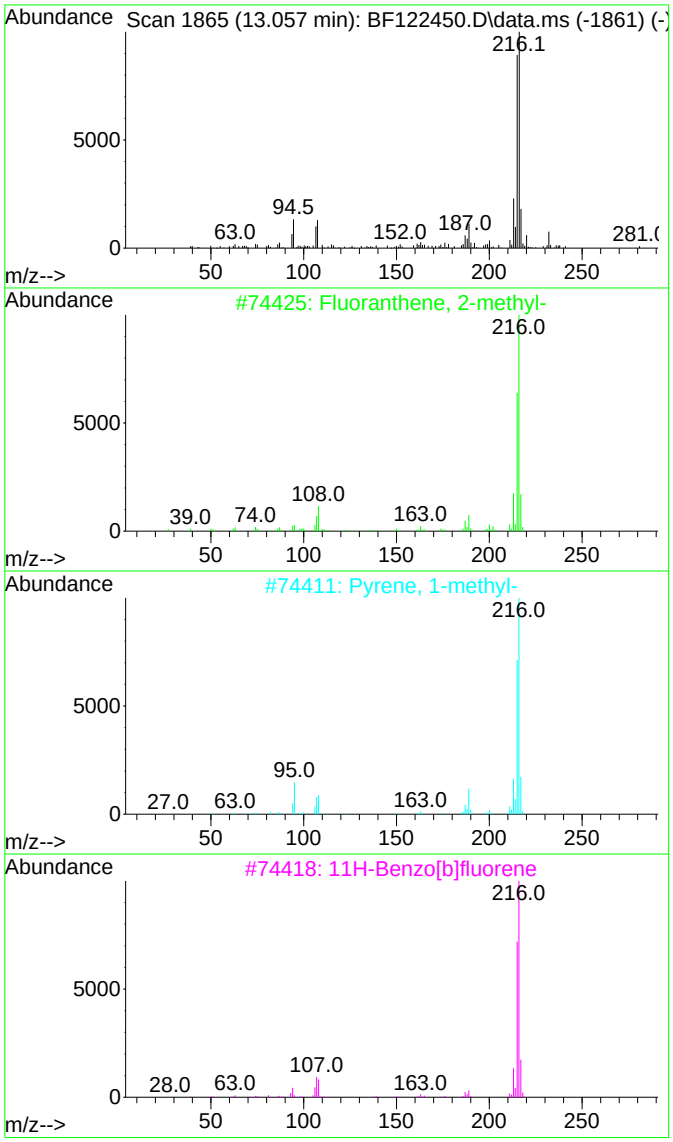
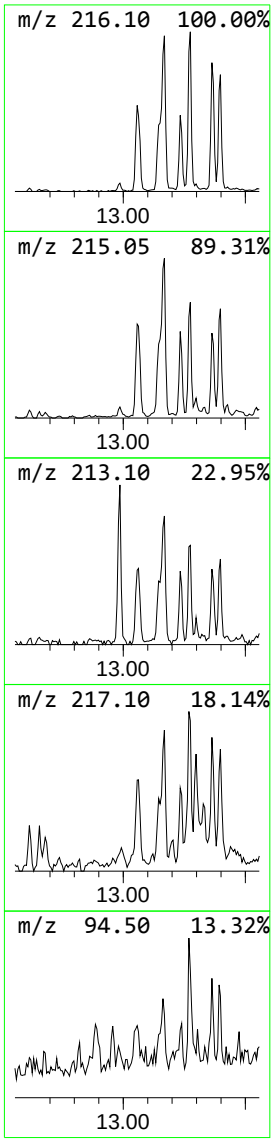
Peak Number 12 Fluoranthene, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.057	2.07 ng	197574	Chrysene-d12	14.039

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	94
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	86





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Sample : L4836-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-04

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110920.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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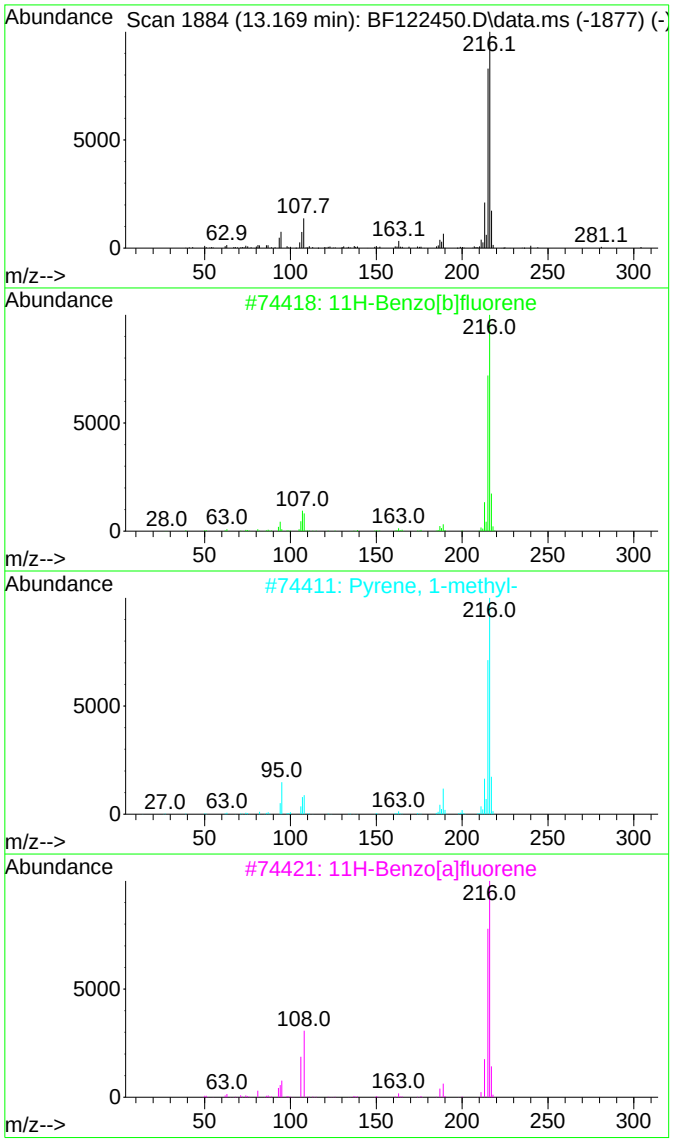
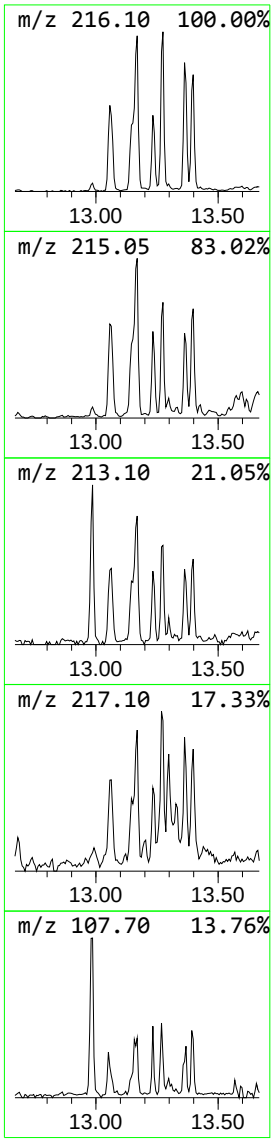
Peak Number 13 11H-Benzo[b]fluorene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.169	3.68 ng	351770	Chrysene-d12	14.039

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
5	Pyridin-3-ol, 2-(4-nitrophenyl)-	216	C11H8N2O3	030820-89-4	64





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Sample : L4836-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

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ClientSampleId : SB-04

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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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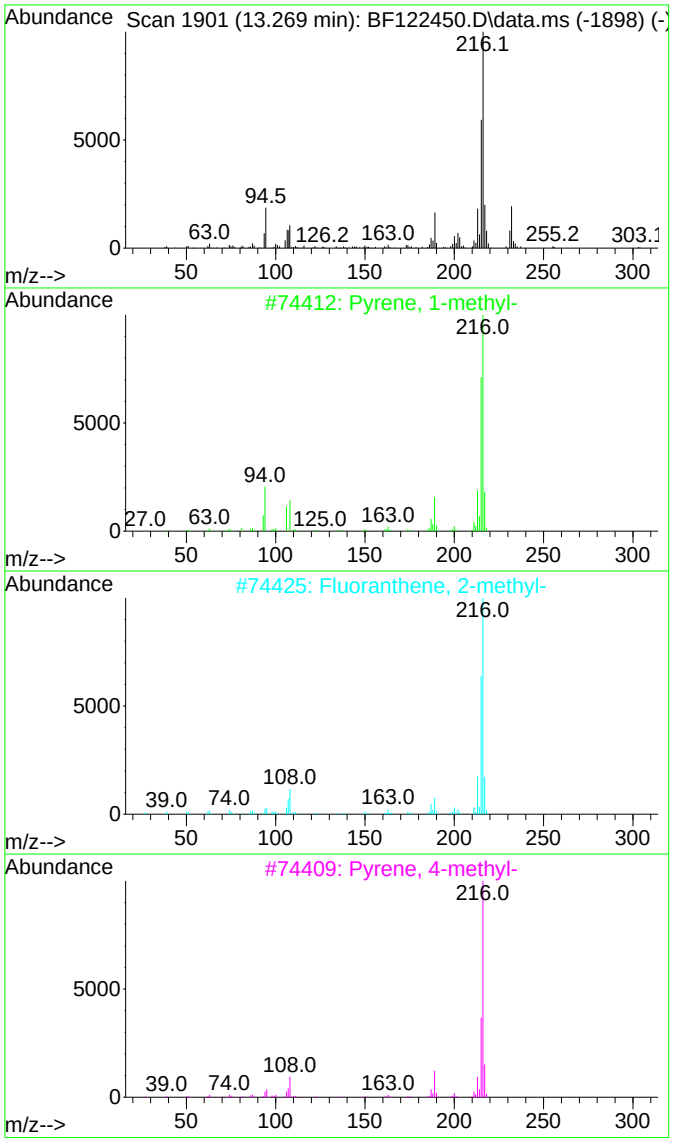
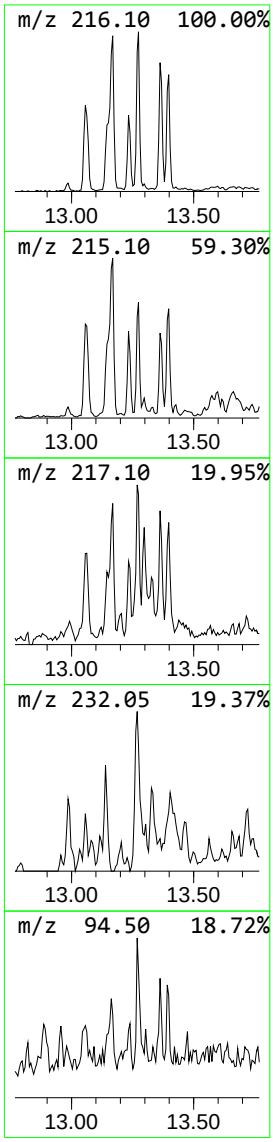
Peak Number 14 Pyrene, 1-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.269	2.42 ng	230812	Chrysene-d12	14.039

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	98
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
3	Pyrene, 4-methyl-	216	C17H12	003353-12-6	94
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	91
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	80





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Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-04

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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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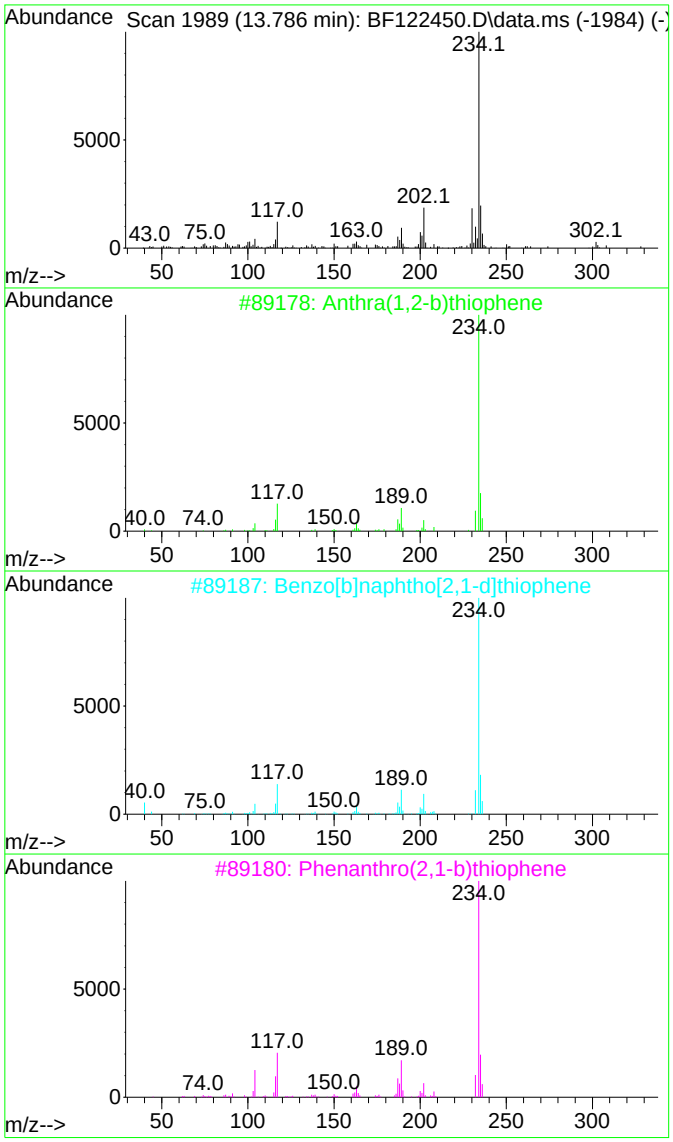
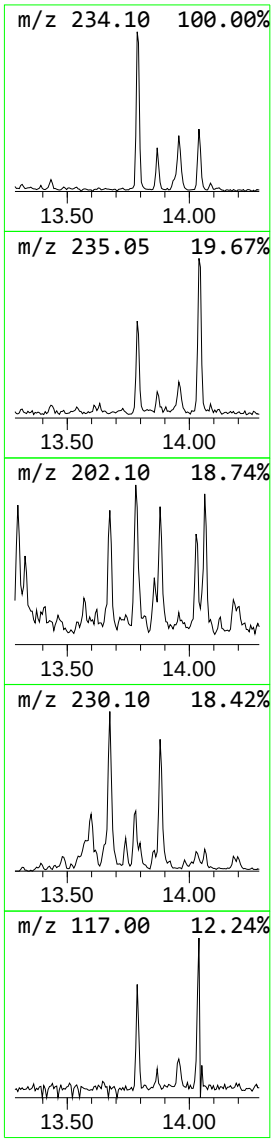
Peak Number 15 Anthra(1,2-b)thiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.786	2.26 ng	215494	Chrysene-d12	14.039

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	98
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	96
3	Phenanthro(2,1-b)thiophene	234	C16H10S	000219-25-0	95
4	Anthra(2,3-b)thiophene	234	C16H10S	022108-55-0	94
5	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	91





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Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-04

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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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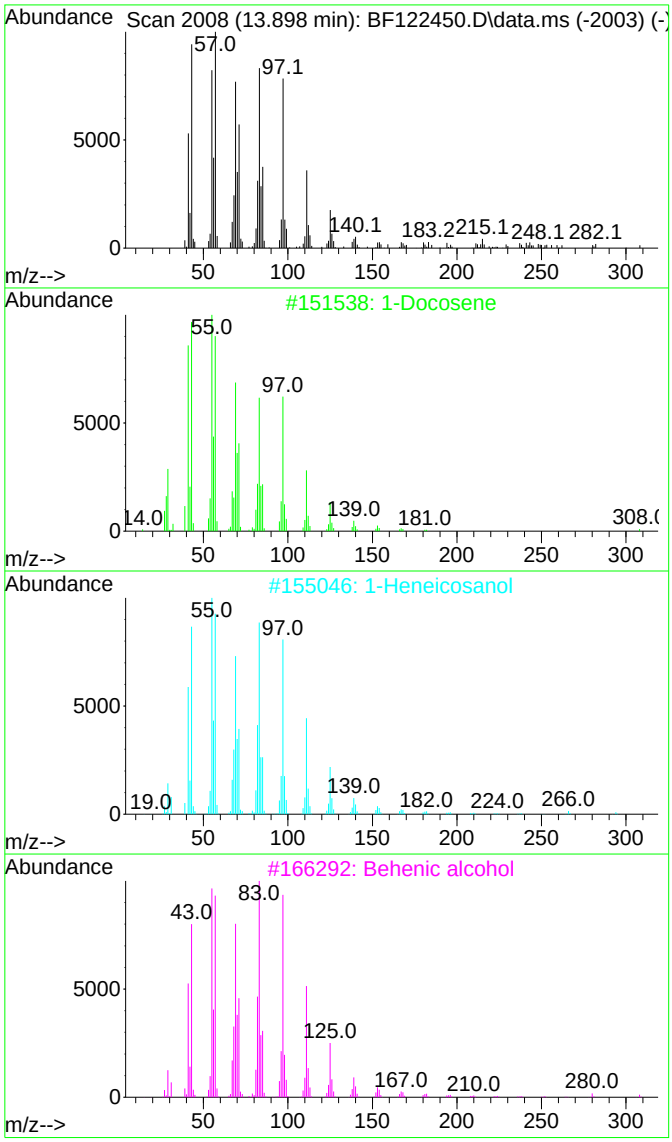
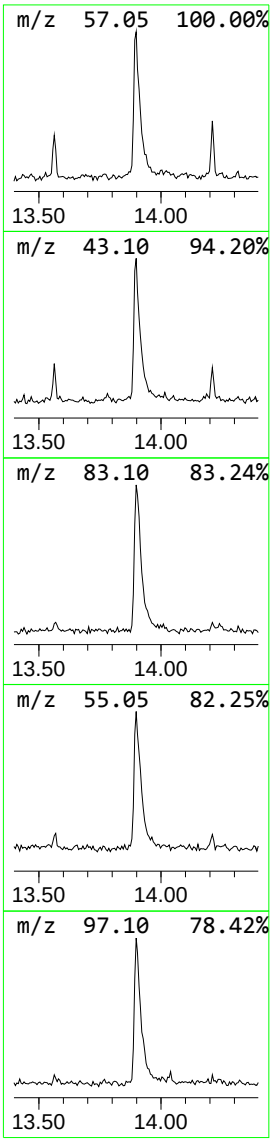
Peak Number 16 1-Docosene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.898	4.48 ng	427585	Chrysene-d12	14.039

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Docosene	308	C22H44	001599-67-3	95
2	1-Heneicosanol	312	C21H44O	015594-90-8	91
3	Behenic alcohol	326	C22H46O	000661-19-8	90
4	n-Nonadecanol-1	284	C19H40O	001454-84-8	87
5	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112320\
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Acq On : 23 Nov 2020 16:46
Operator : JU/CG
Sample : L4836-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-04

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110920.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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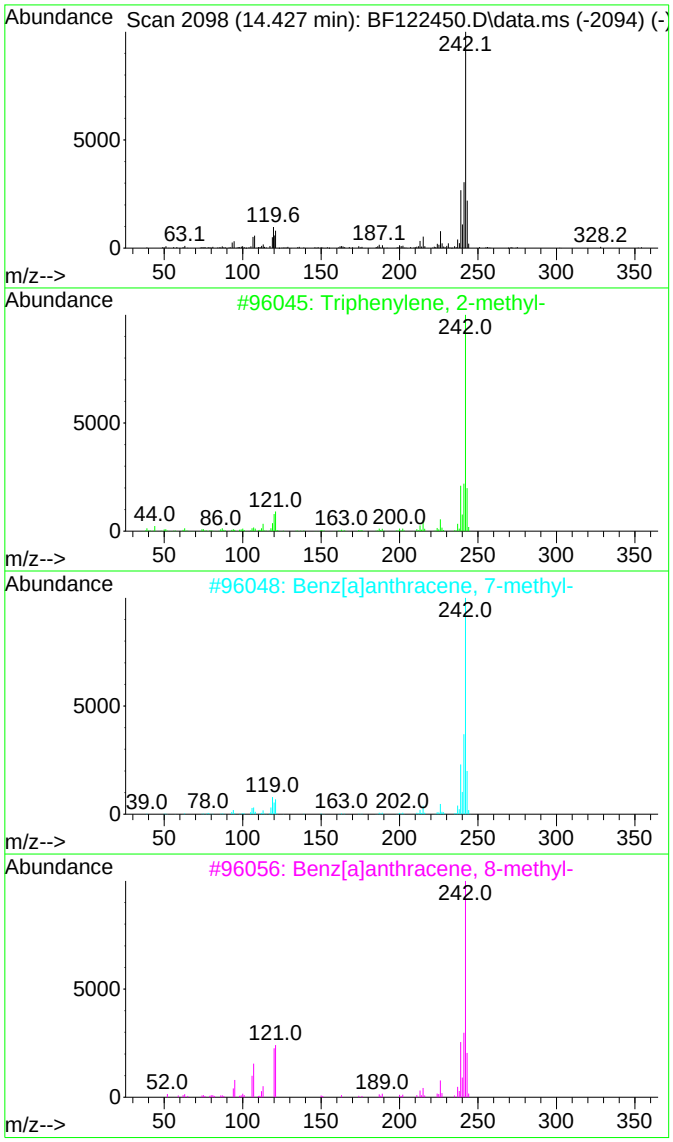
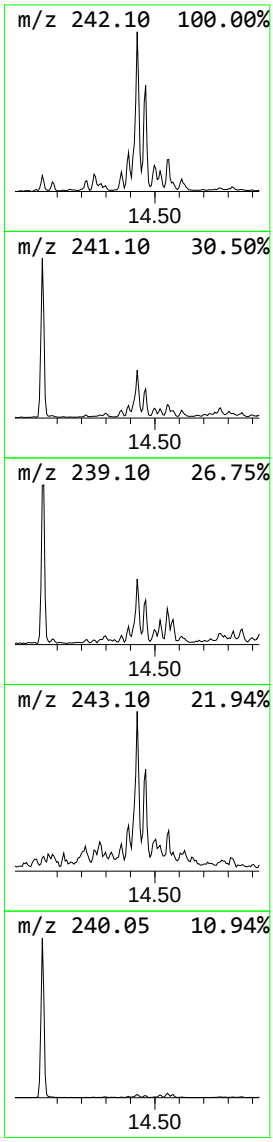
Peak Number 17 Triphenylene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.427	3.42 ng	326630	Chrysene-d12	14.039

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	97
2	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	95
3	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	95
4	2-Methylchrysene	242	C19H14	003351-32-4	94
5	Chrysene, 5-methyl-	242	C19H14	003697-24-3	94





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Acq On : 23 Nov 2020 16:46
Operator : JU/CG
Sample : L4836-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-04

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110920.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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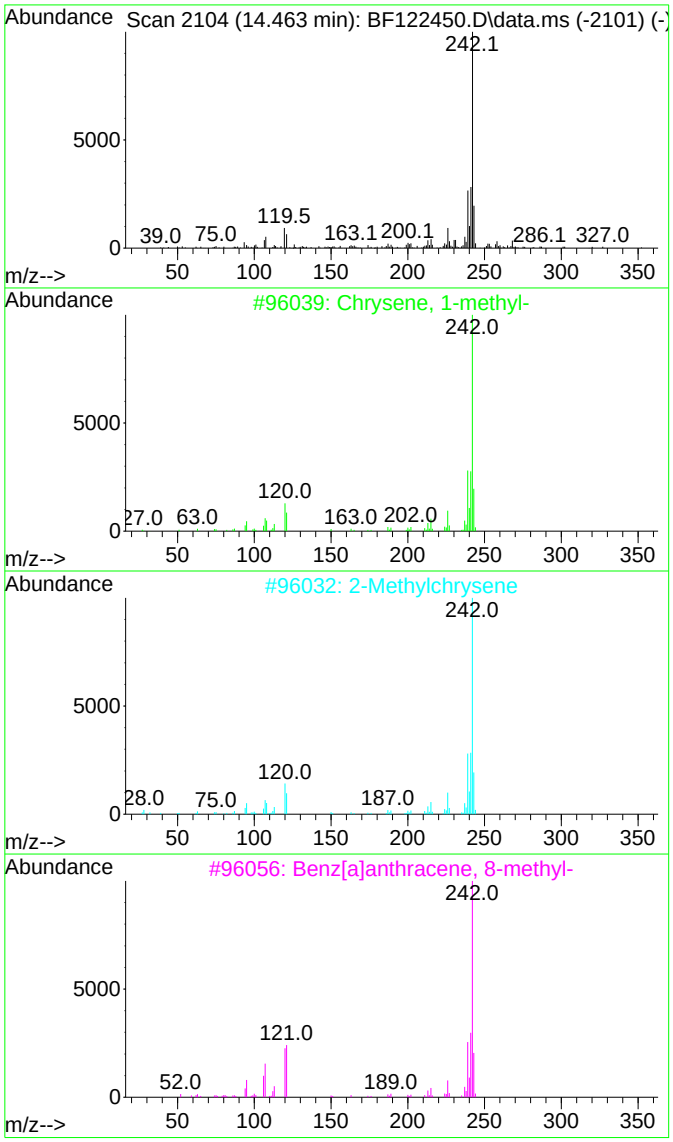
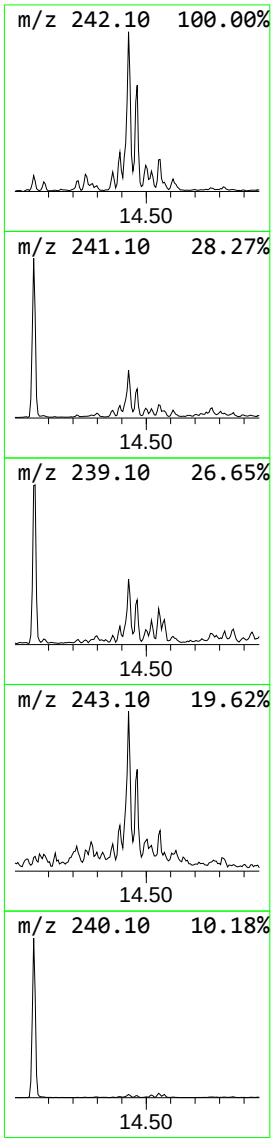
Peak Number 18 Chrysene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.463	2.14 ng	203935	Chrysene-d12	14.039

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chrysene, 1-methyl-	242	C19H14	003351-28-8	95
2	2-Methylchrysene	242	C19H14	003351-32-4	94
3	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	94
4	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	93
5	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	93





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Data File : BF122450.D
Acq On : 23 Nov 2020 16:46
Operator : JU/CG
Sample : L4836-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-04

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110920.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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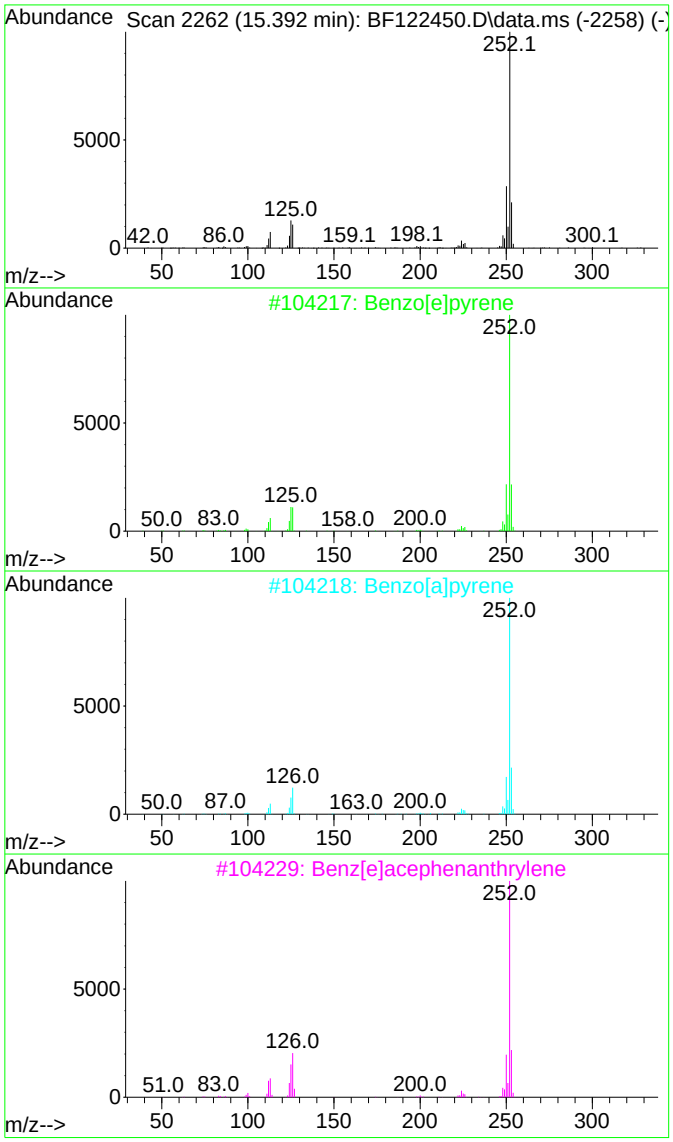
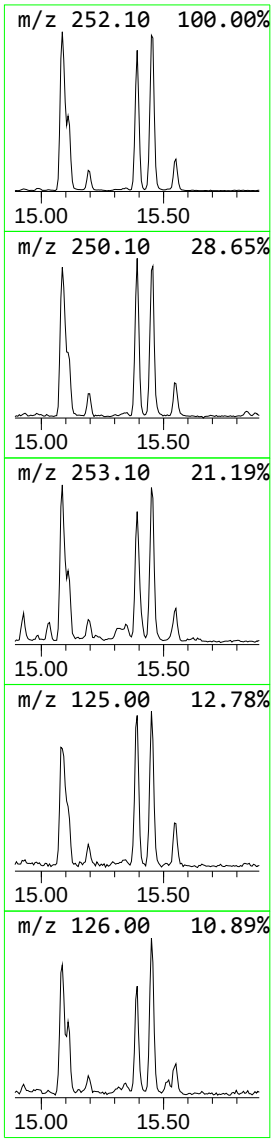
Peak Number 19 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.392	7.34 ng	453318	Perylene-d12	15.521

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[a]pyrene	252	C20H12	000050-32-8	96
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	89
5	Perylene	252	C20H12	000198-55-0	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112320\
Data File : BF122450.D
Acq On : 23 Nov 2020 16:46
Operator : JU/CG
Sample : L4836-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-04

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110920.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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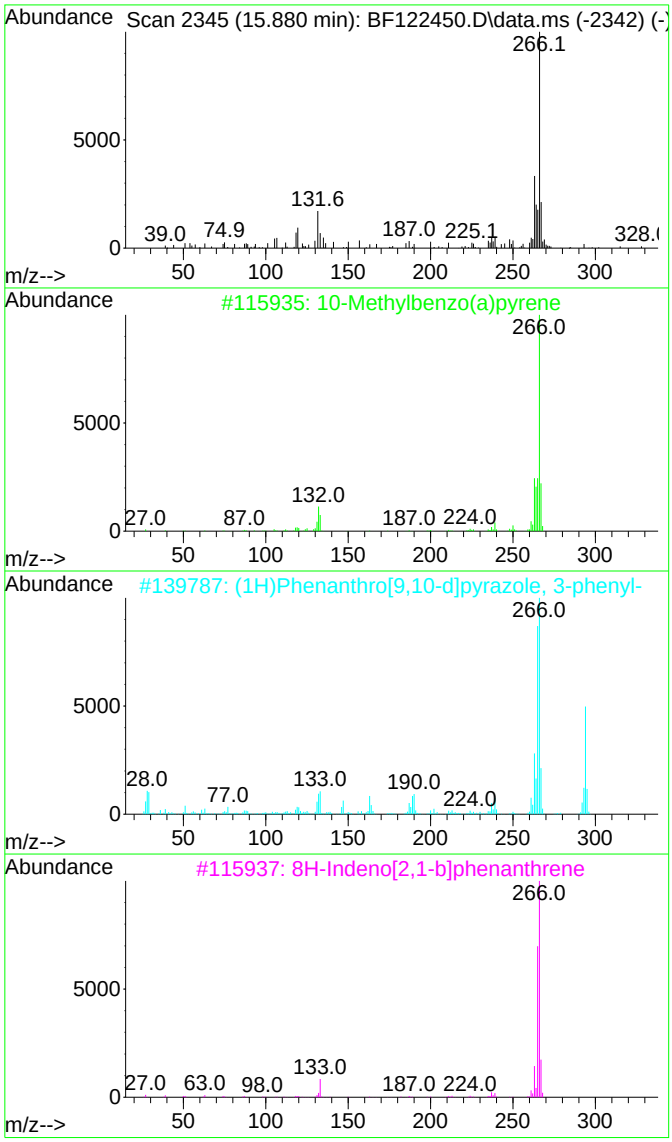
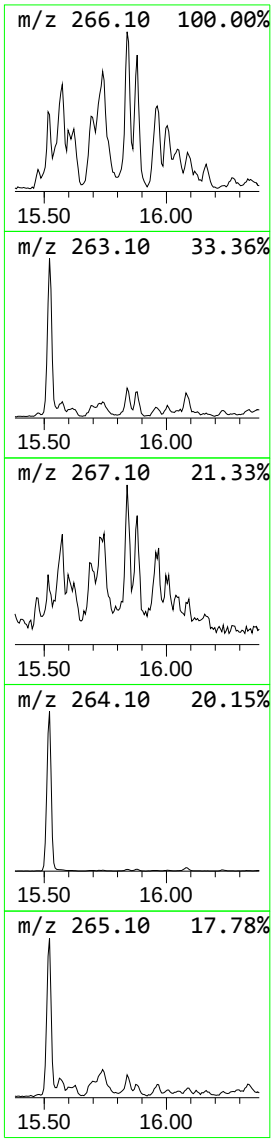
Peak Number 20 10-Methylbenzo(a)pyrene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.880	2.10 ng	129372	Perylene-d12	15.521

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	10-Methylbenzo(a)pyrene	266	C21H14	063104-32-5	62
2	(1H)Phenanthro[9,10-d]pyrazole, ...	294	C21H14N2	037944-54-0	56
3	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	53
4	9,10-Anthracenedione, 1,4-bis(me...	266	C16H14N2O2	002475-44-7	52
5	9,10-Anthracenedione, 1,4-bis(am...	266	C16H14N2O2	077862-13-6	52





Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112320\
Data File : BF122450.D
Acq On : 23 Nov 2020 16:46
Operator : JU/CG
Sample : L4836-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-04

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110920.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-metho...	2.140	10.0	ng	522273	1	6.863	1044190	20.0
2-Pentanone, 4-...	5.075	34.0	ng	1777390	1	6.863	1044190	20.0
2-Pentanone, 4-...	5.875	3.0	ng	155005	1	6.863	1044190	20.0
Anthracene, 1,2...	11.257	2.2	ng	161932	4	11.392	1464510	20.0
Phenanthrene, 2...	11.898	3.9	ng	287697	4	11.392	1464510	20.0
Phenanthrene, 1...	11.927	9.5	ng	695652	4	11.392	1464510	20.0
Benzaldehyde, 3...	12.010	5.9	ng	435117	4	11.392	1464510	20.0
Anthracene, 9-m...	12.033	2.8	ng	204505	4	11.392	1464510	20.0
Naphthalene, 2-...	12.192	2.5	ng	181013	4	11.392	1464510	20.0
Phenanthrene, 2...	12.451	2.8	ng	201927	4	11.392	1464510	20.0
unknown12.48	12.486	2.9	ng	210765	4	11.392	1464510	20.0
Fluoranthene, 2...	13.057	2.1	ng	197574	5	14.039	1909530	20.0
11H-Benzo[b]flu...	13.169	3.7	ng	351770	5	14.039	1909530	20.0
Pyrene, 1-methyl-	13.269	2.4	ng	230812	5	14.039	1909530	20.0
Anthra(1,2-b)th...	13.786	2.3	ng	215494	5	14.039	1909530	20.0
1-Docosene	13.898	4.5	ng	427585	5	14.039	1909530	20.0
Triphenylene, 2...	14.427	3.4	ng	326630	5	14.039	1909530	20.0
Chrysene, 1-met...	14.463	2.1	ng	203935	5	14.039	1909530	20.0
Benzo[e]pyrene	15.392	7.3	ng	453318	6	15.521	1234840	20.0
10-Methylbenzo(...	15.880	2.1	ng	129372	6	15.521	1234840	20.0