LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115872.D
Acq On : 31 Jul 2019 18:06
Operator : HP/JU
Sample : K4049-07
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-7

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-BF073019.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	2.128	3	7	25	rVB	757997	993400	32.77%	1.800%
2	5.475	571	576	579	rBV	2885521	2760341	91.05%	5.001%
3	6.481	742	747	750	rBV	2710077	2905684	95.84%	5.264%
4	6.622	767	771	774	rBV	3353004	2967403	97.88%	5.376%
5	6.851	806	810	817	rVB	966925	797728	26.31%	1.445%
6	7.010	833	837	840	rBV	2552270	2352298	77.59%	4.262%
7	7.410	900	905	908	rBV	2102376	1865635	61.54%	3.380%
8	8.128	1022	1027	1030	rBV	1019778	982103	32.39%	1.779%
9	8.845	1146	1149	1153	rBV	40822	34934	1.15%	0.063%
10	8.945	1163	1166	1170	rVB	49678	39447	1.30%	0.071%
11	9.210	1207	1211	1214	rBV	3662149	3031700	100.00%	5.493%
12	9.551	1265	1269	1271	rBV	56168	53244	1.76%	0.096%
13	9.604	1275	1278	1284	rVV	702661	581516	19.18%	1.054%
14	9.669	1286	1289	1294	rVB	28637	36620	1.21%	0.066%
15	9.751	1299	1303	1307	rVV	182338	151367	4.99%	0.274%
16	9.892	1320	1327	1330	rBV	1238059	1113228	36.72%	2.017%
17	9.922	1330	1332	1336	rVB	139007	112369	3.71%	0.204%
18	10.092	1357	1361	1366	rBV	114509	118239	3.90%	0.214%
19	10.298	1392	1396	1398	rBV2	38889	44996	1.48%	0.082%
20	10.439	1416	1420	1426	rVB2	139395	145234	4.79%	0.263%
21	10.592	1444	1446	1450	rVB	67231	64165	2.12%	0.116%
22	10.680	1457	1461	1466	rBV	2075680	1904035	62.80%	3.450%
23	10.804	1478	1482	1488	rVB4	59288	86014	2.84%	0.156%
24	10.986	1508	1513	1516	rBV4	55737	76414	2.52%	0.138%
25	11.116	1530	1535	1537	rBV3	59232	76138	2.51%	0.138%
26	11.139	1537	1539	1543	rVV	57574	65299	2.15%	0.118%
27	11.180	1543	1546	1550	rVV	153734	144061	4.75%	0.261%
28	11.239	1551	1556	1559	rVV3	72160	127555	4.21%	0.231%
29	11.275	1559	1562	1568	rVB	139469	147857	4.88%	0.268%
30	11.374	1576	1579	1581	rBV	1033844	978735	32.28%	1.773%
31	11.404	1581	1584	1587	rVV	2112383	1847446	60.94%	3.347%
32	11.451	1590	1592	1595	rVV	382793	307412	10.14%	0.557%
33	11.486	1595	1598	1601	rVV2	70829	73310	2.42%	0.133%
34	11.604	1613	1618	1621	rBV2	216751	243923	8.05%	0.442%

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Misc :
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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-BF073019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.669	1626	1629	1633	rVV2	104454	109699	3.62%	0.199%
36	11.710	1633	1636	1641	rVV3	68749	72707	2.40%	0.132%
37	11.833	1654	1657	1659	rBV	53509	48497	1.60%	0.088%
38	11.880	1661	1665	1667	rVV	327567	314835	10.38%	0.570%
39	11.904	1667	1669	1675	rVV	728805	755228	24.91%	1.368%
40	11.957	1675	1678	1680	rVV	131848	149614	4.93%	0.271%
41	11.992	1680	1684	1686	rVV2	411572	497072	16.40%	0.901%
42	12.010	1686	1687	1692	rVB	229057	189732	6.26%	0.344%
43	12.057	1693	1695	1697	rVV2	43912	44564	1.47%	0.081%
44	12.080	1697	1699	1702	rVB2	49421	49483	1.63%	0.090%
45	12.174	1712	1715	1717	rBV	231477	190672	6.29%	0.345%
46	12.198	1717	1719	1723	rVB	270704	234415	7.73%	0.425%
47	12.321	1738	1740	1743	rVB	83203	68103	2.25%	0.123%
48	12.357	1743	1746	1748	rBV	70308	56508	1.86%	0.102%
49	12.380	1748	1750	1752	rVB	62560	45871	1.51%	0.083%
50	12.427	1755	1758	1761	rBV	186189	202143	6.67%	0.366%
51	12.463	1762	1764	1767	rVV	85718	86752	2.86%	0.157%
52	12.516	1770	1773	1778	rVB	204464	216291	7.13%	0.392%
53	12.592	1782	1786	1790	rBV	2693390	2532995	83.55%	4.589%
54	12.633	1791	1793	1795	rBV	56302	46687	1.54%	0.085%
55	12.657	1795	1797	1799	rVB	79589	60281	1.99%	0.109%
56	12.686	1799	1802	1806	rBV	274746	287778	9.49%	0.521%
57	12.721	1806	1808	1810	rBV2	60441	63257	2.09%	0.115%
58	12.821	1819	1825	1831	rBV	2501133	2772244	91.44%	5.023%
59	12.869	1831	1833	1838	rVB2	128767	141674	4.67%	0.257%
60	12.963	1842	1849	1852	rBV	2369032	2432225	80.23%	4.407%
61	13.039	1858	1862	1865	rBV2	178311	281186	9.27%	0.509%
62	13.127	1874	1877	1878	rBV2	152598	173134	5.71%	0.314%
63	13.145	1878	1880	1883	rVB	289159	276565	9.12%	0.501%
64	13.216	1889	1892	1894	rVB	113737	91946	3.03%	0.167%
65	13.251	1895	1898	1902	rVV2	277289	271478	8.95%	0.492%
66	13.345	1911	1914	1917	rBV	176251	143408	4.73%	0.260%
67	13.374	1917	1919	1923	rBV2	164594	154447	5.09%	0.280%
68	13.657	1964	1967	1971	rVB	298100	274310	9.05%	0.497%
69	13.768	1982	1986	1988	rBV2	264548	300316	9.91%	0.544%
70	13.792	1988	1990	1992	rVV	235780	199100	6.57%	0.361%
71	13.821	1992	1995	2000	rVV2	180954	258599	8.53%	0.469%

LSC Area Percent Report

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Integrator: RTE
Smoothing : ON Filtering: 5
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72	13.863	2000	2002	2005	rVV	221456	197116	6.50%	0.357%
73	14.015	2021	2028	2031	rBV2	1685241	2651923	87.47%	4.805%
74	14.045	2031	2033	2036	rVB	1339985	1081186	35.66%	1.959%
75	14.127	2044	2047	2049	rVB	128545	104141	3.44%	0.189%
76	14.168	2051	2054	2058	rBV2	107217	174786	5.77%	0.317%
77	14.245	2063	2067	2070	rBV3	134732	180466	5.95%	0.327%
78	14.404	2092	2094	2097	rVB	247798	224059	7.39%	0.406%
79	14.439	2098	2100	2104	rVB2	157243	150556	4.97%	0.273%
80	14.533	2113	2116	2117	rBV2	181049	171734	5.66%	0.311%
81	15.062	2201	2206	2209	rBV	1318737	2077651	68.53%	3.764%
82	15.168	2221	2224	2227	rVB	265671	253520	8.36%	0.459%
83	15.368	2254	2258	2264	rVB	828093	1120107	36.95%	2.029%
84	15.433	2264	2269	2274	rVV	1149172	1538876	50.76%	2.788%
85	15.492	2275	2279	2282	rVV	819653	1079152	35.60%	1.955%
86	15.521	2282	2284	2291	rVB2	359308	461840	15.23%	0.837%
87	16.621	2469	2471	2482	rVB6	131603	267611	8.83%	0.485%
88	16.962	2523	2529	2538	rVB2	563039	1108332	36.56%	2.008%
89	17.198	2565	2569	2574	rBV3	100435	171872	5.67%	0.311%
90	17.409	2598	2605	2614	rVB	402769	857552	28.29%	1.554%

Sum of corrected areas: 55196146

LSC Report - Integrated Chromatogram

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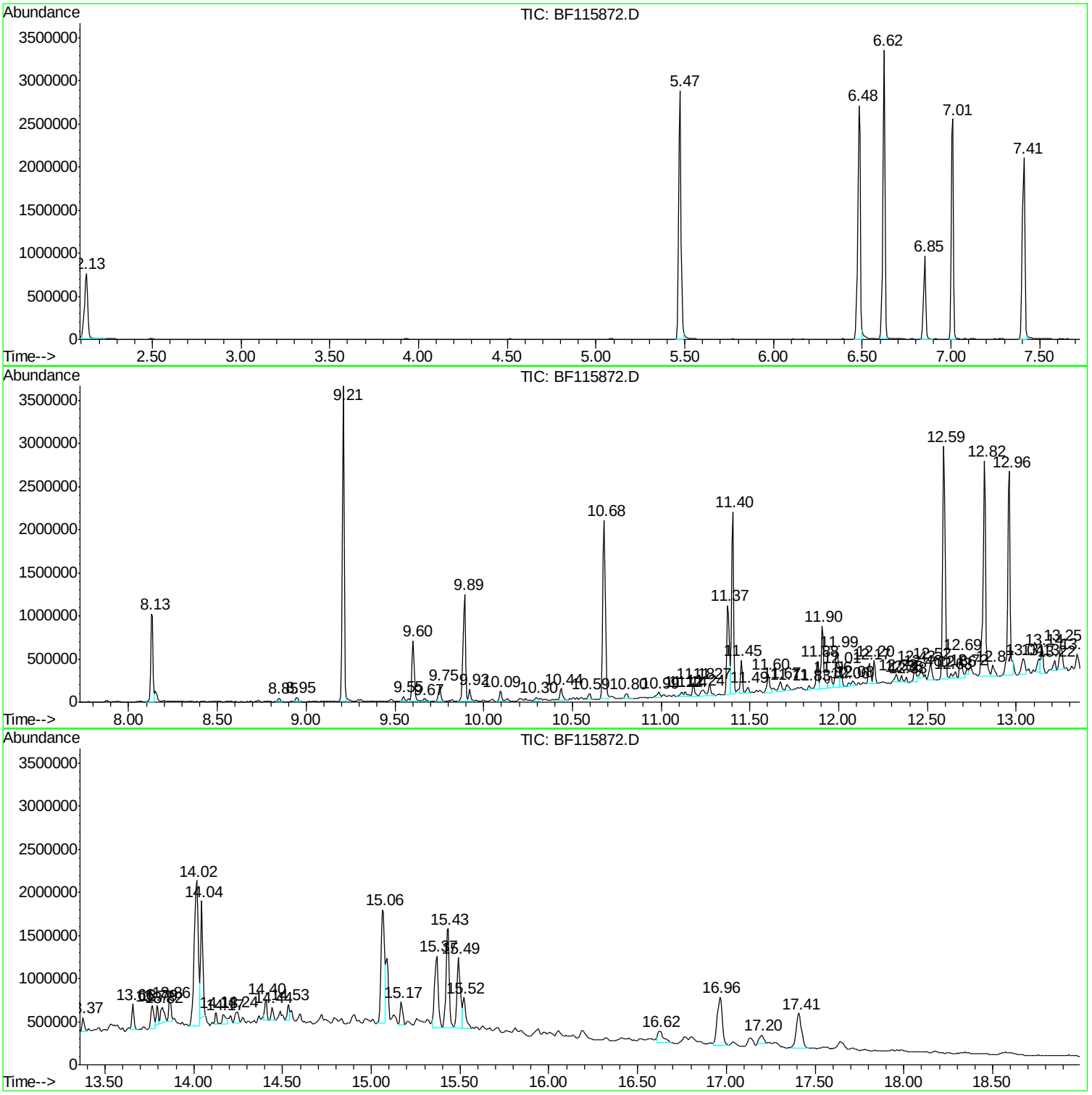
Instrument : BNA_F
ClientSampleId : SP-7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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\BF073119\
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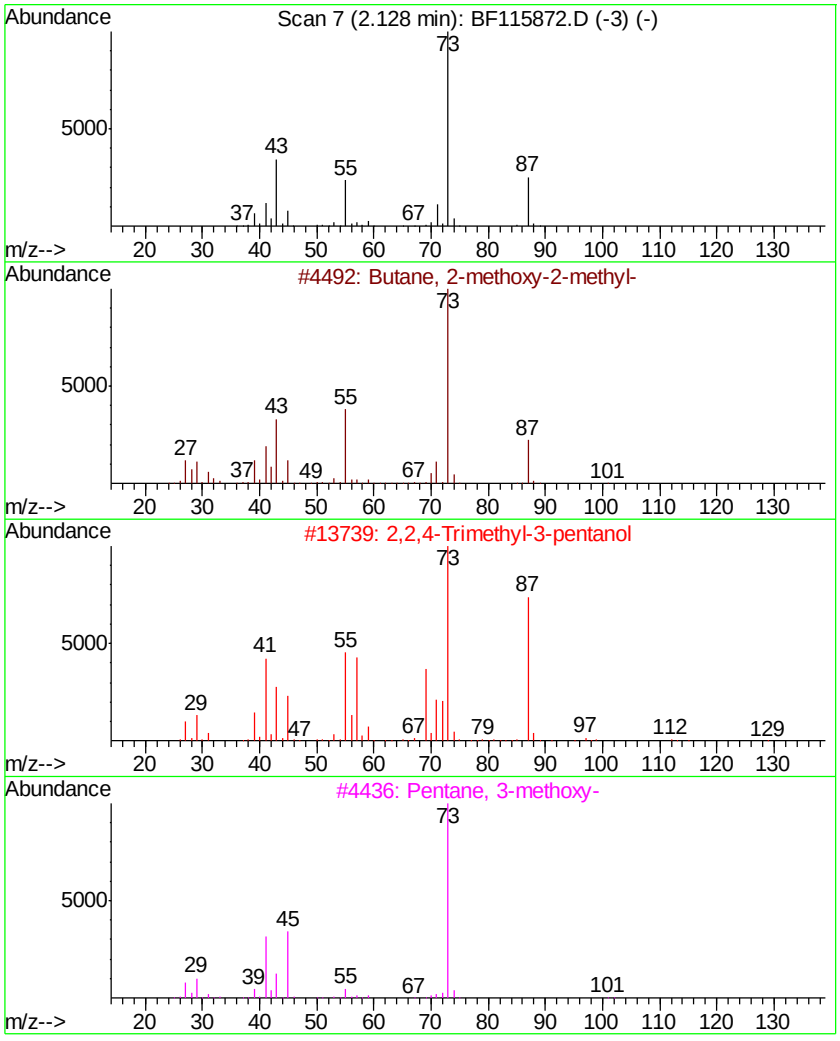
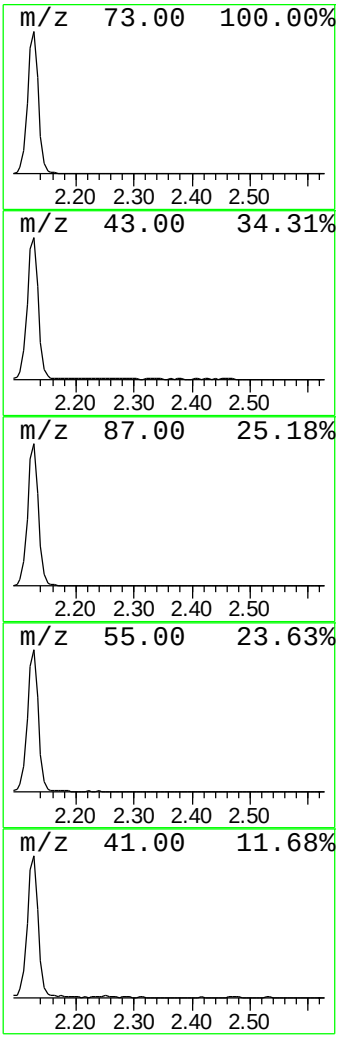
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.13	24.91 ng	993400	1,4-Dichlorobenzene-d4	6.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	23
4	N-Ethylformamide	73	C3H7NO	000627-45-2	9
5	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	9





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Operator : HP/JU
Sample : K4049-07
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

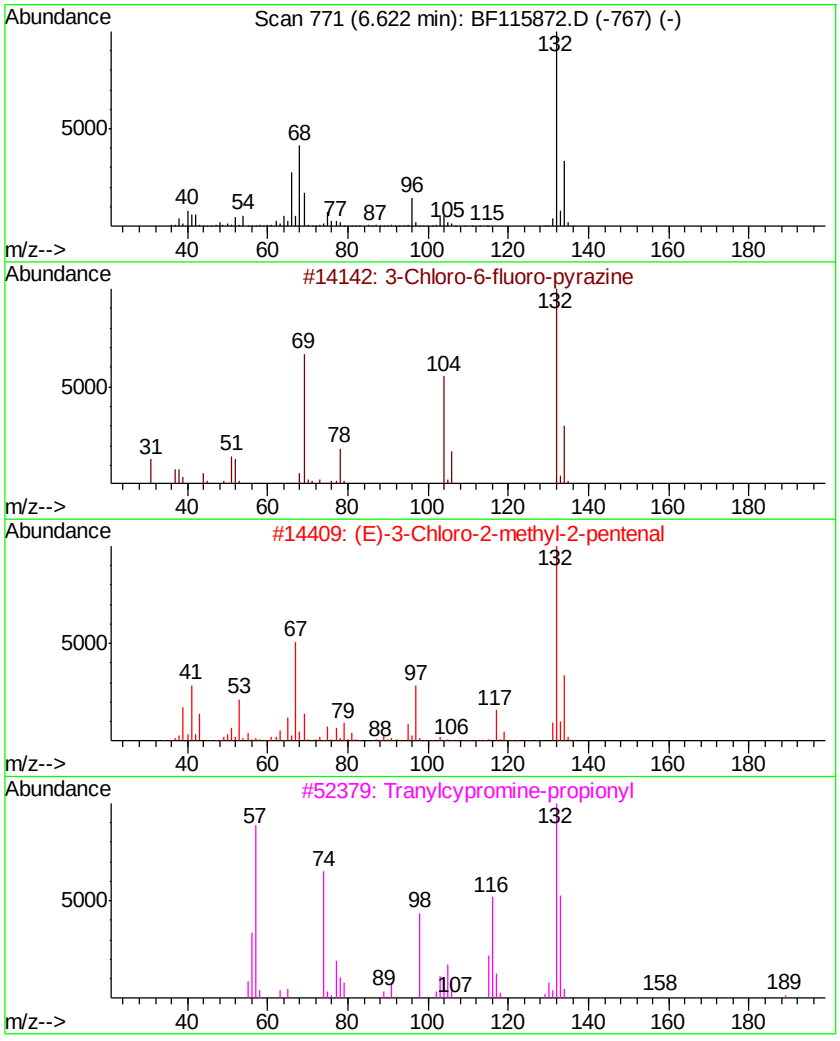
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

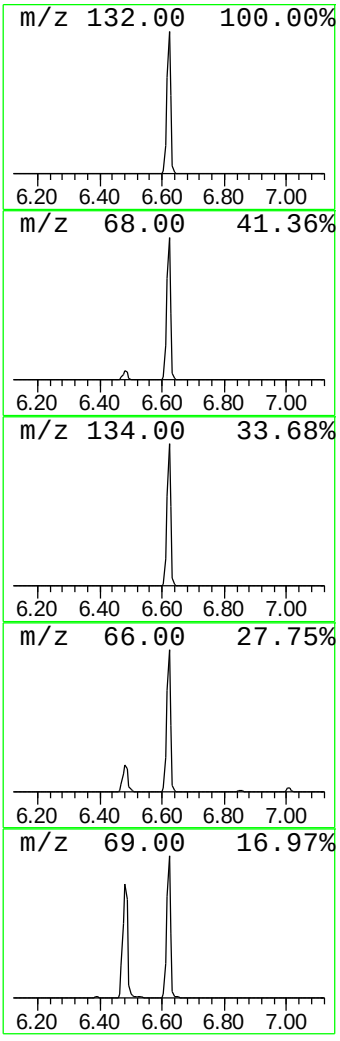
****

Peak Number 2 unknown6.62 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.62	74.40 ng	2967400	1,4-Dichlorobenzene-d4	6.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	12
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
4	Xenon	132	Xe	007440-63-3	9
5	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9





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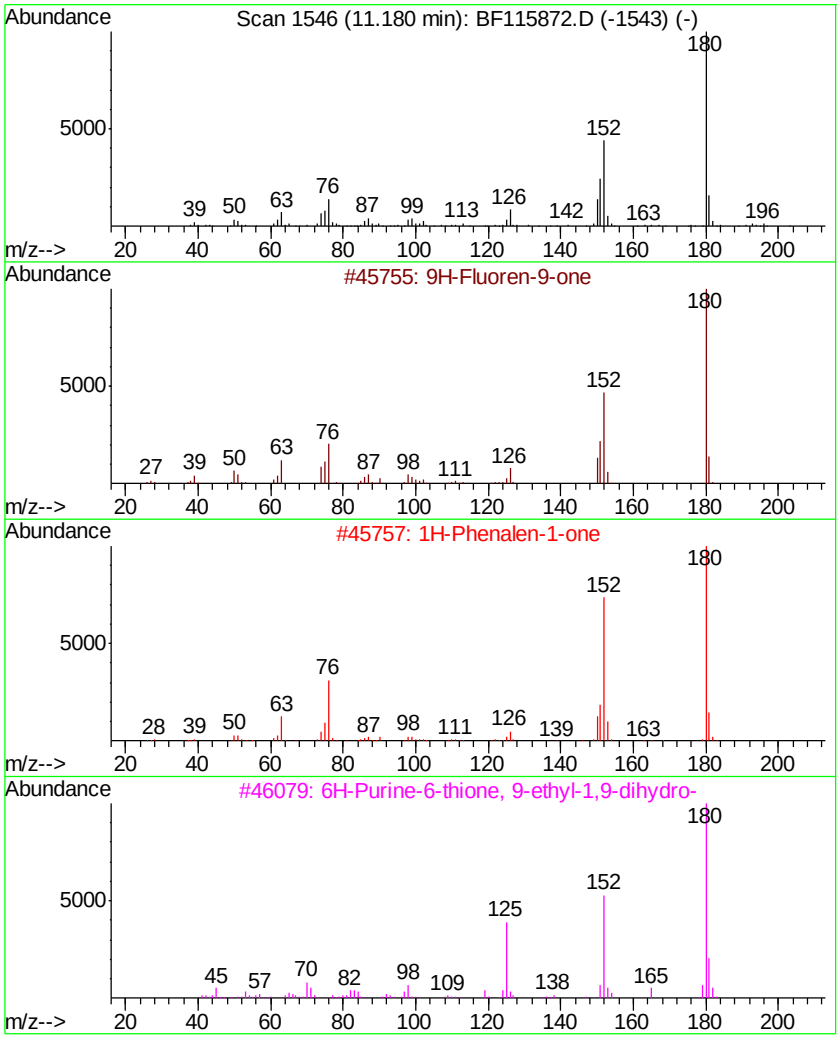
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

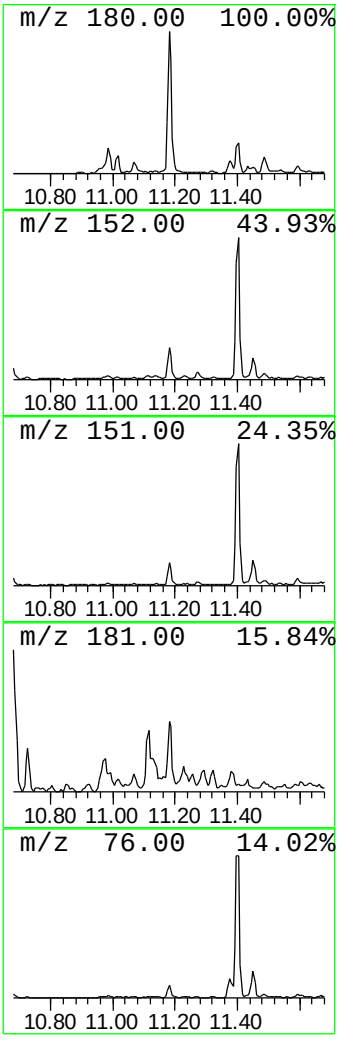
****

Peak Number 4 9H-Fluoren-9-one Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.18	2.94 ng	144061	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	97
2	1H-Phenalen-1-one	180	C13H8O	000548-39-0	70
3	6H-Purine-6-thione, 9-ethyl-1,9-...	180	C7H8N4S	005427-20-3	45
4	2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	45
5	1,3-Diazaphenanthrene	180	C12H8N2	000229-75-4	43





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Instrument : BNA_F
ClientSampleId : SP-7

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

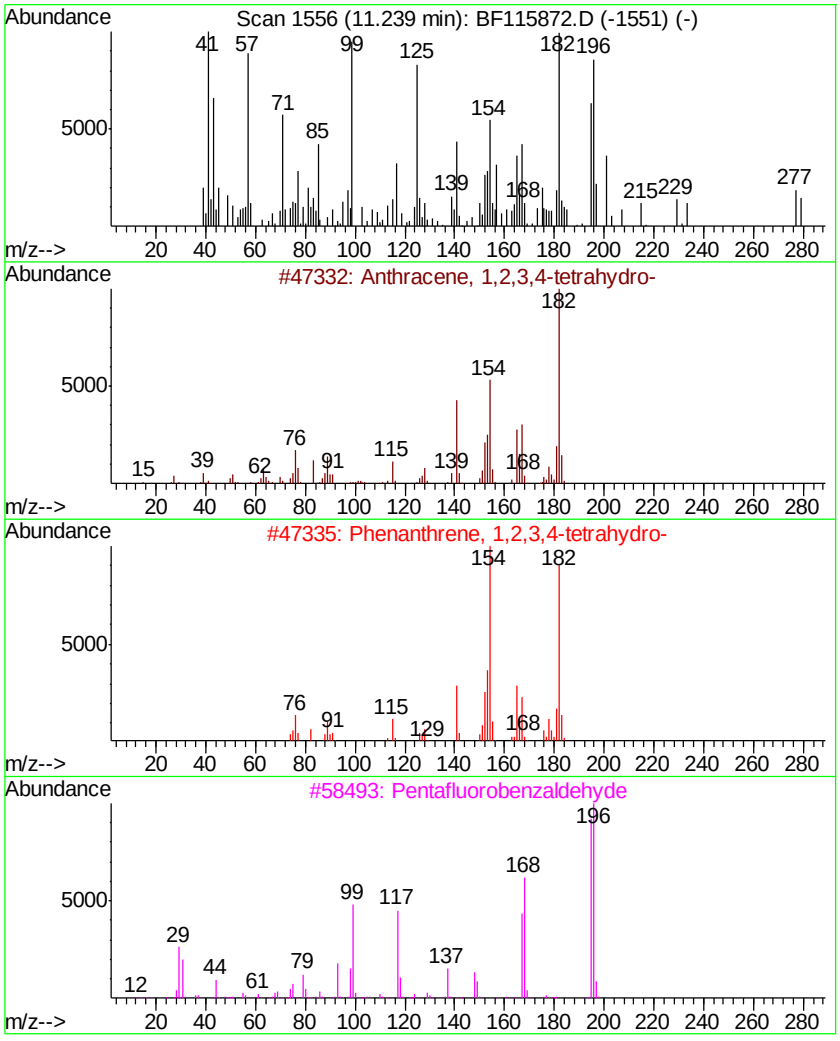
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

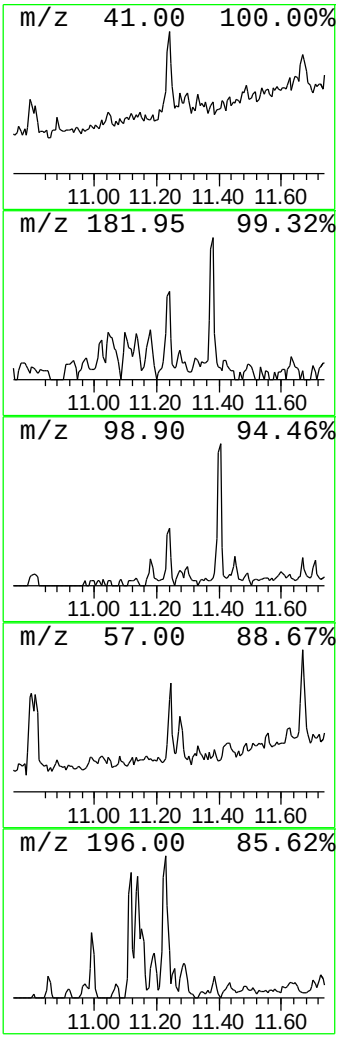
****

Peak Number 5 Anthracene, 1,2,3,4-tetrahy... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.24	2.61 ng	127555	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	60
2	Phenanthrene, 1,2,3,4-tetrahydro-	182	C14H14	001013-08-7	25
3	Pentafluorobenzaldehyde	196	C7HF5O	000653-37-2	18
4	.beta.-Carboline, 1,2-dimethyl-	196	C13H12N2	109847-05-4	15
5	Diethyldithiophosphinic acid	154	C4H11PS2	000866-54-6	11





Library Search Compound Report

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Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

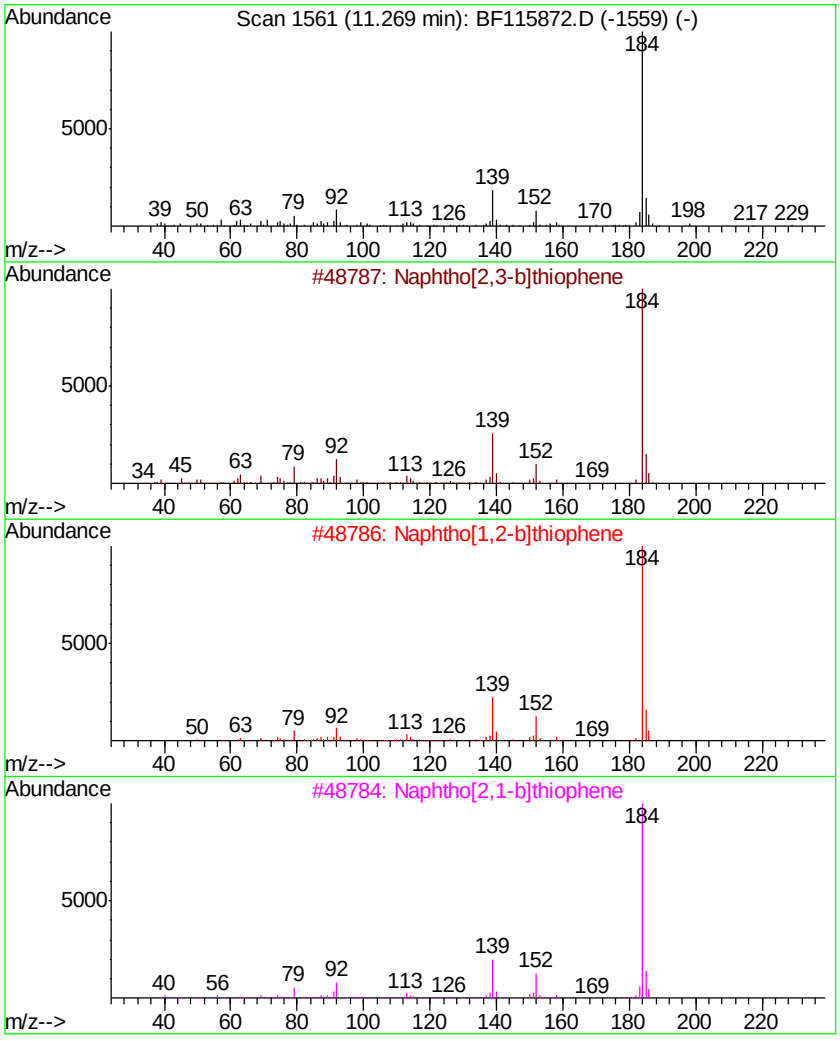
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

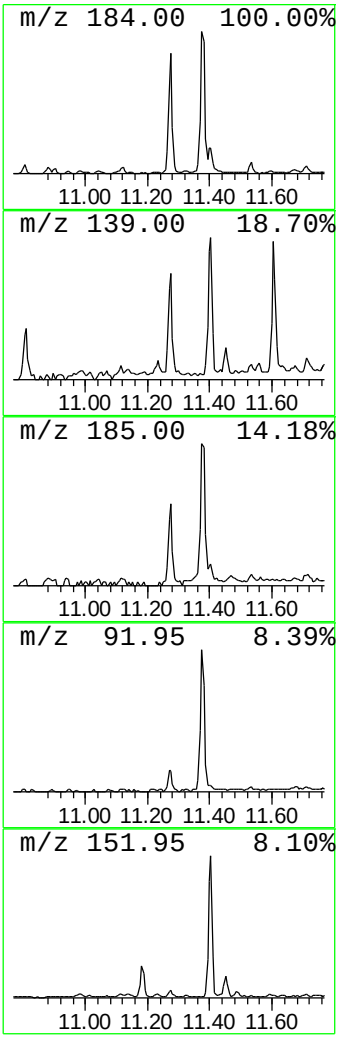
****

Peak Number 6 Naphtho[2,3-b]thiophene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.27	3.02 ng	147857	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	97
2	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	95
3	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
4	Dibenzothiophene	184	C12H8S	000132-65-0	94
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





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Operator : HP/JU
Sample : K4049-07
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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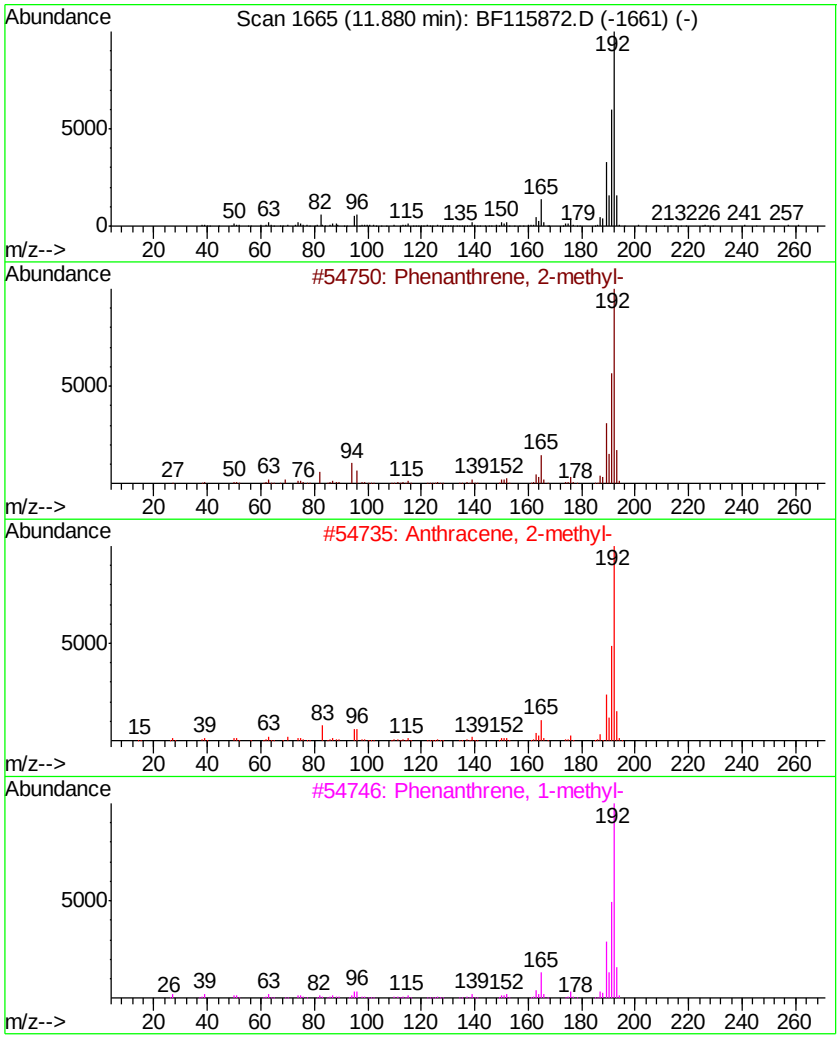
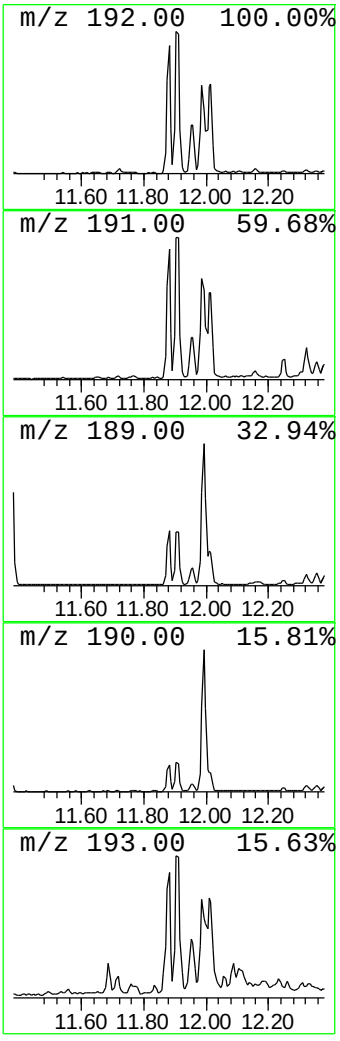
Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.88	6.43 ng	314835	Phenanthrene-d10	11.37

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	95
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93





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Sample : K4049-07
Misc :
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Instrument : BNA_F
ClientSampleId : SP-7

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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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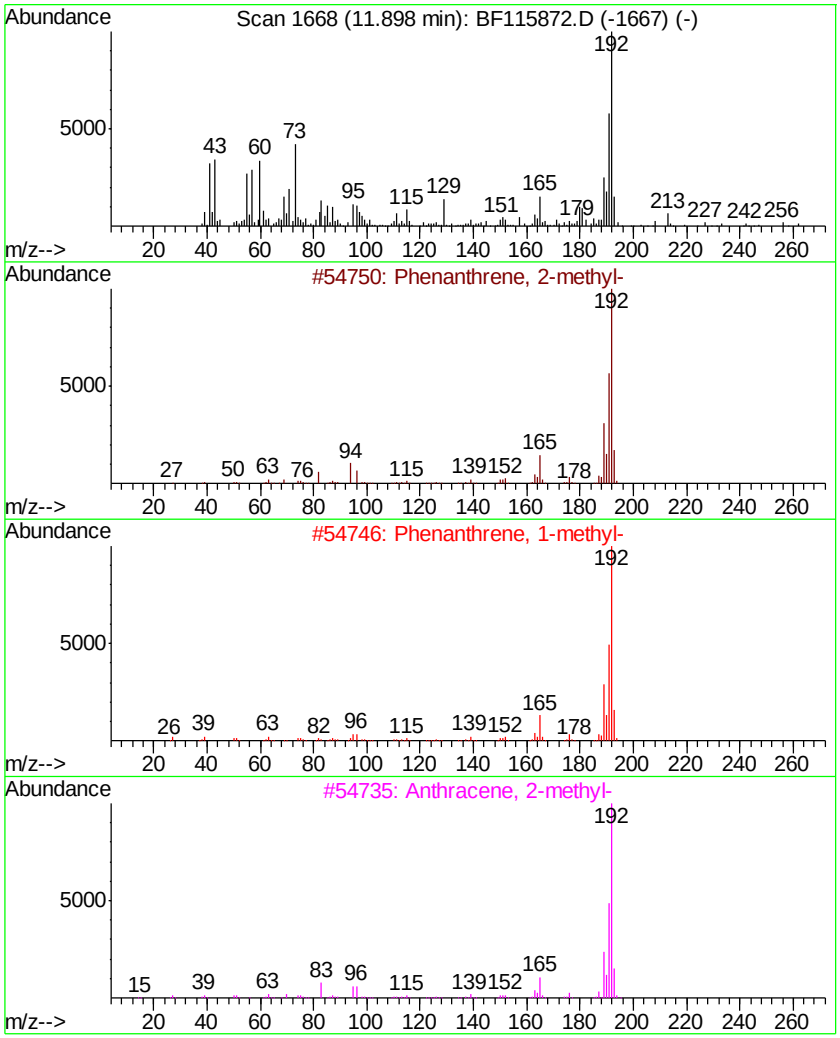
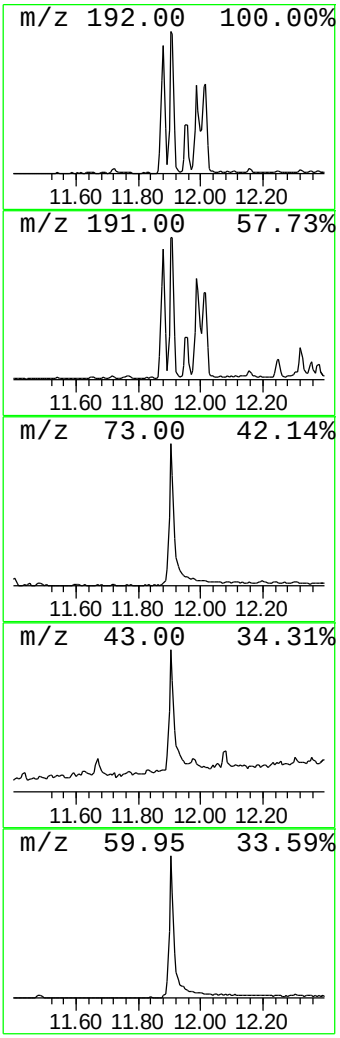
Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	15.43 ng	755228	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
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	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93





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ClientSampleId : SP-7

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

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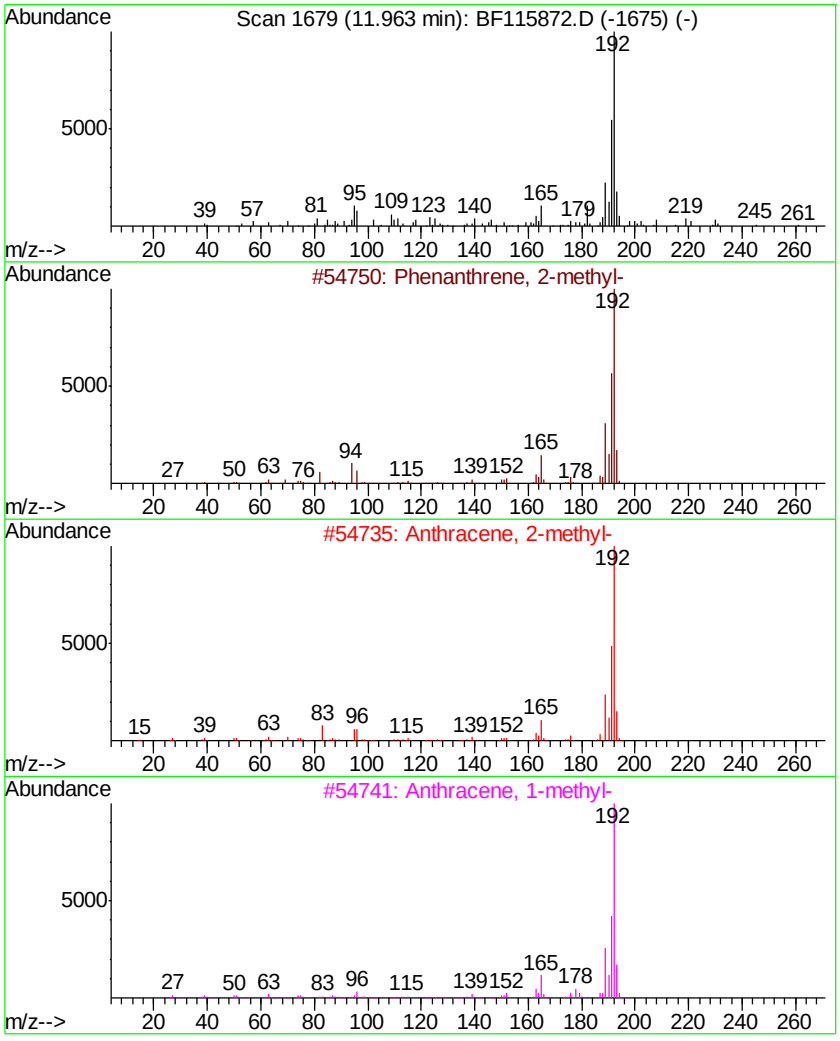
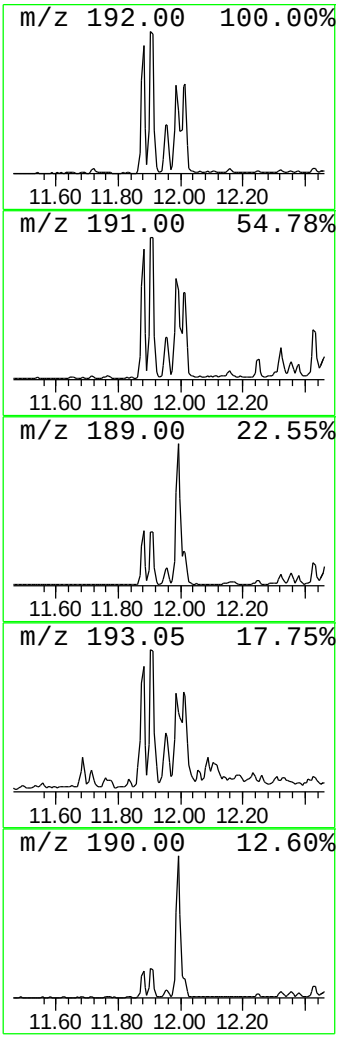
Peak Number 9 Anthracene, 1-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	3.06 ng	149614	Phenanthrene-d10	11.37

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	95
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93





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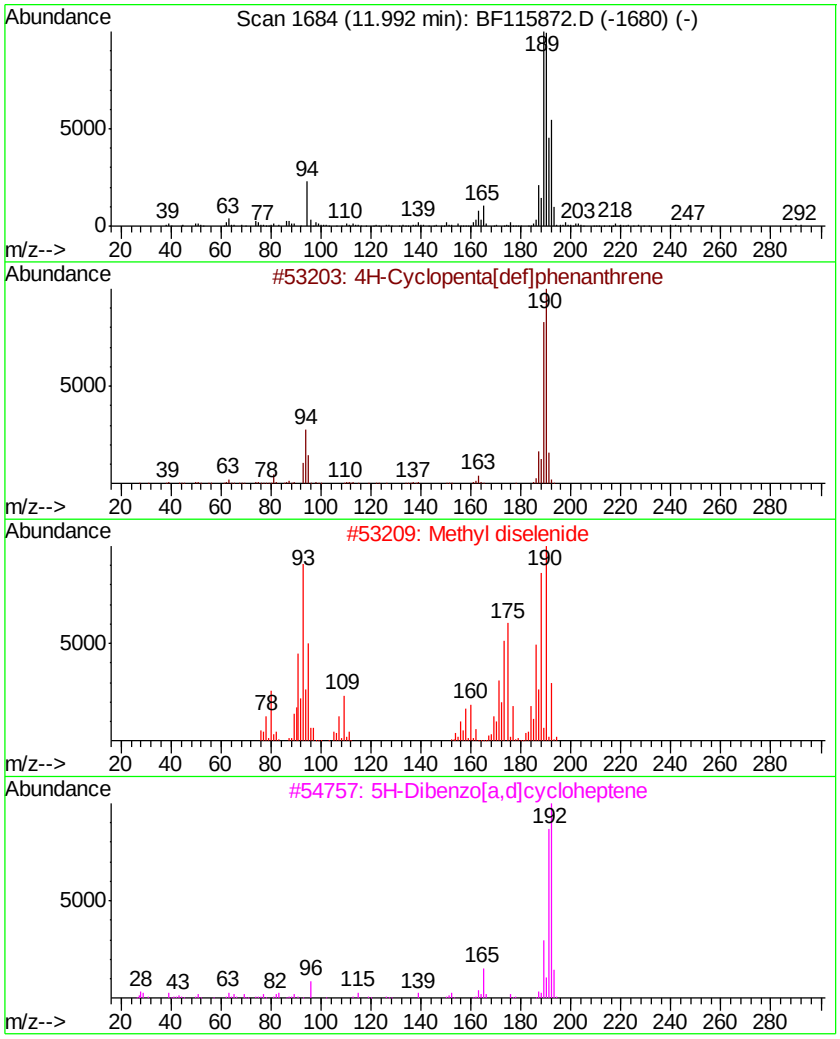
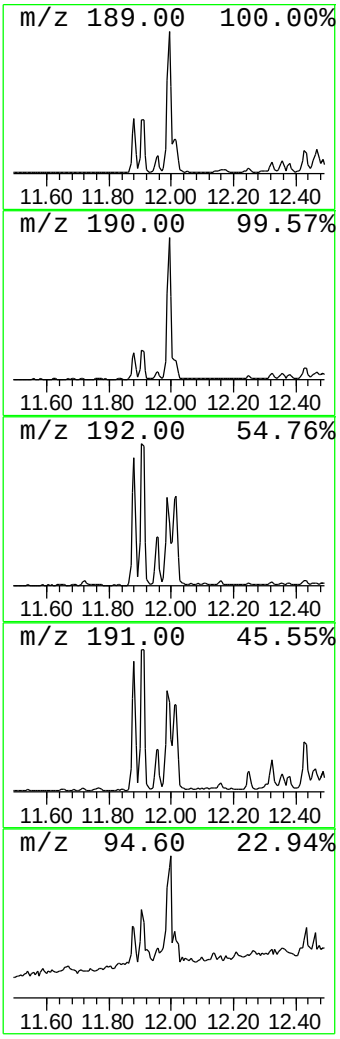
Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	10.16 ng	497072	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
2	Methyl diselenide	190	C2H6Se2	007101-31-7	41
3	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	25
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	25
5	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	18





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ClientSampleId : SP-7

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

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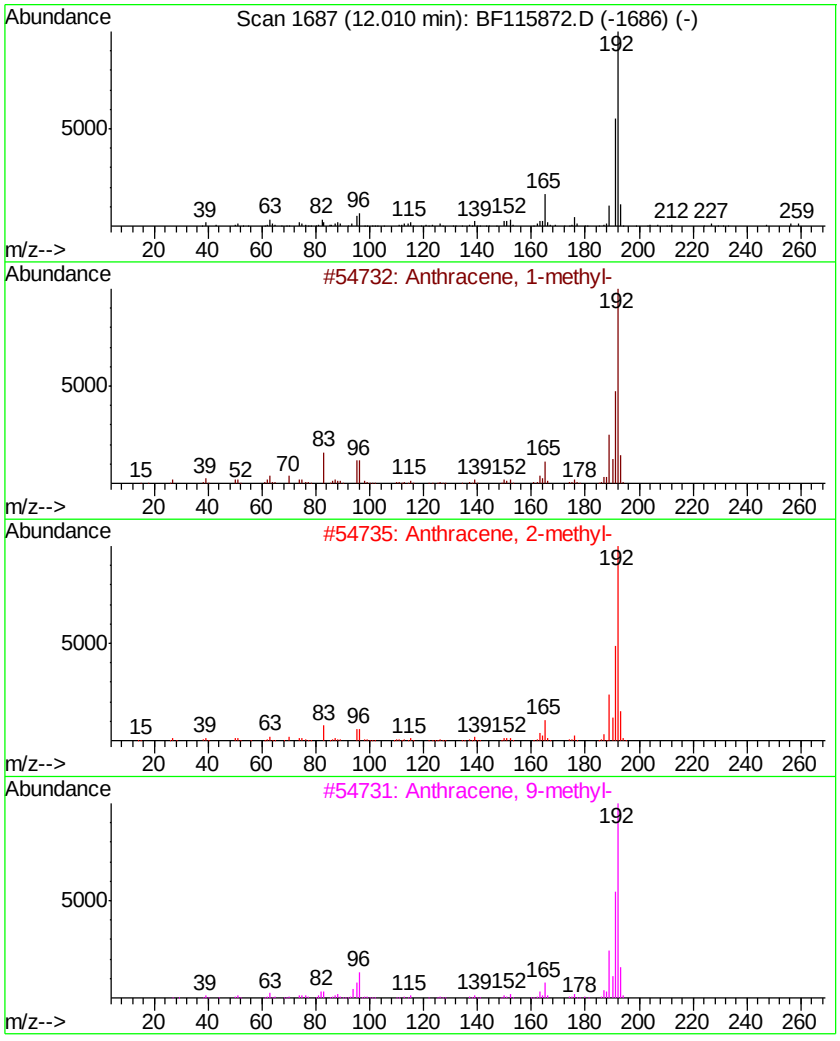
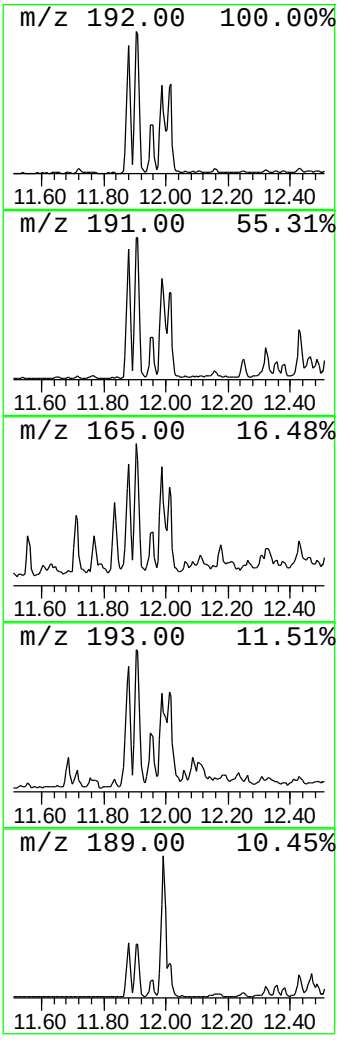
Peak Number 11 Anthracene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.01	3.88 ng	189732	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	87
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	87
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	86
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	83
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	80





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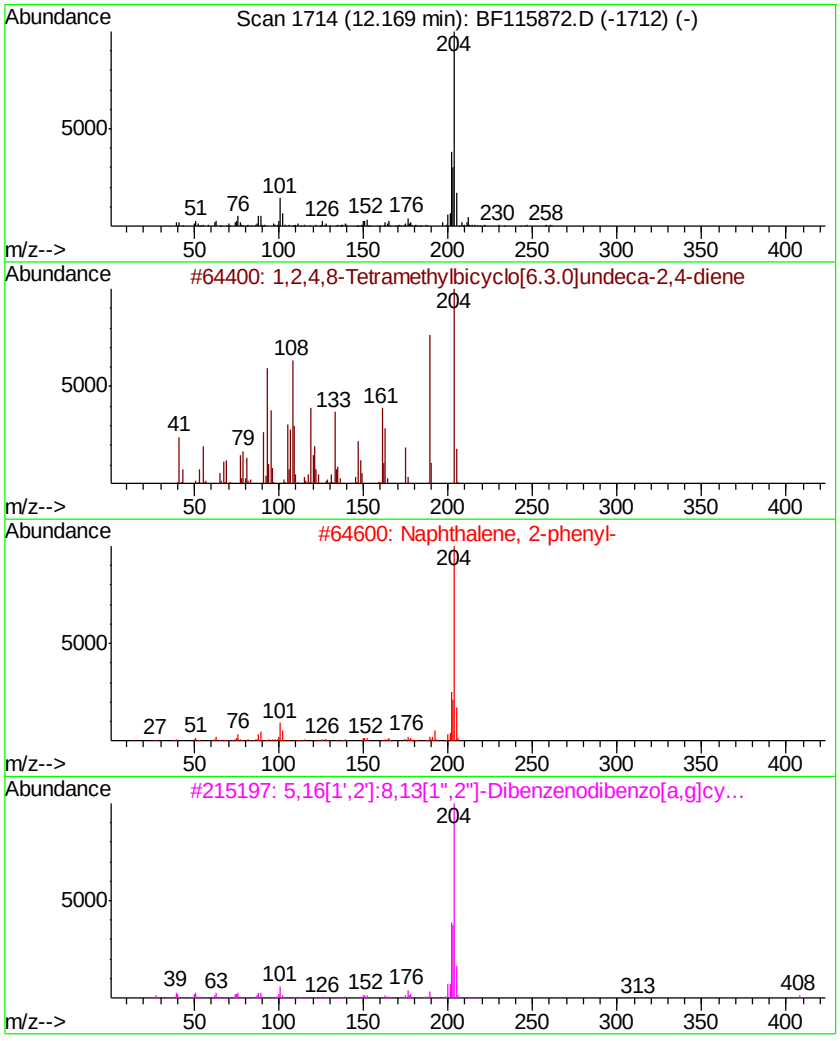
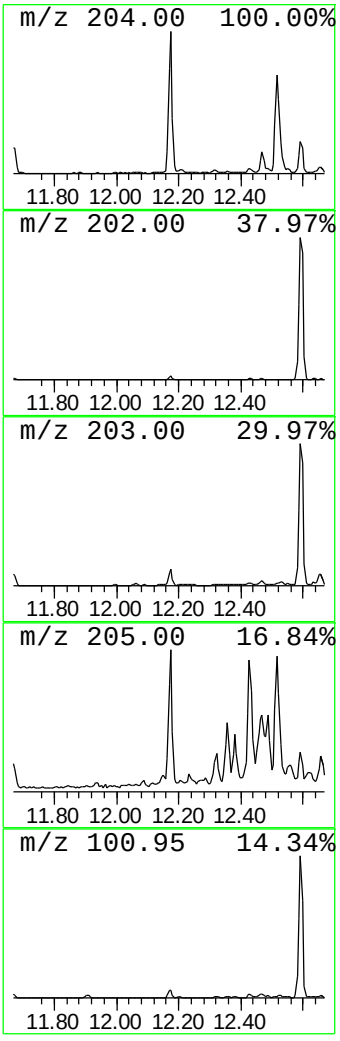
Peak Number 12 1,2,4,8-Tetramethylbicyclo[... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.17	3.90 ng	190672	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	89
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
4	6-Phenylbenzocycloheptен-7-one	232	C17H12O	093327-56-1	74
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	70





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TIC Library : C:\DATABASE\NIST11.L
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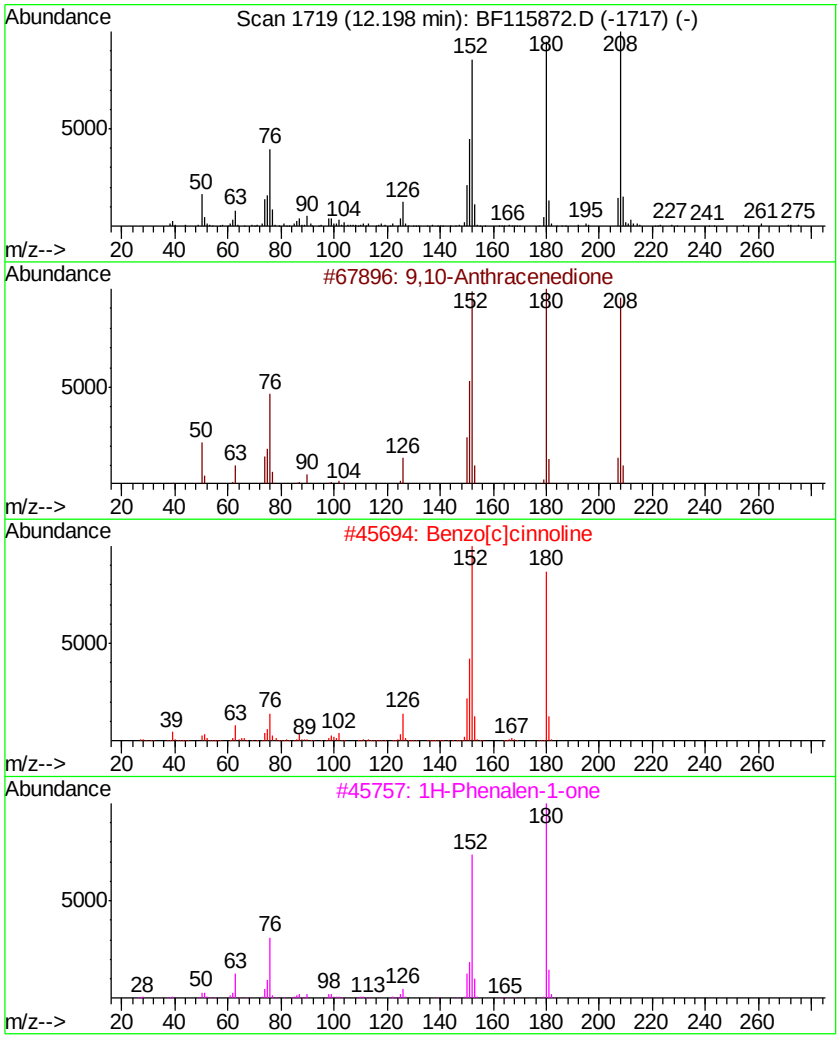
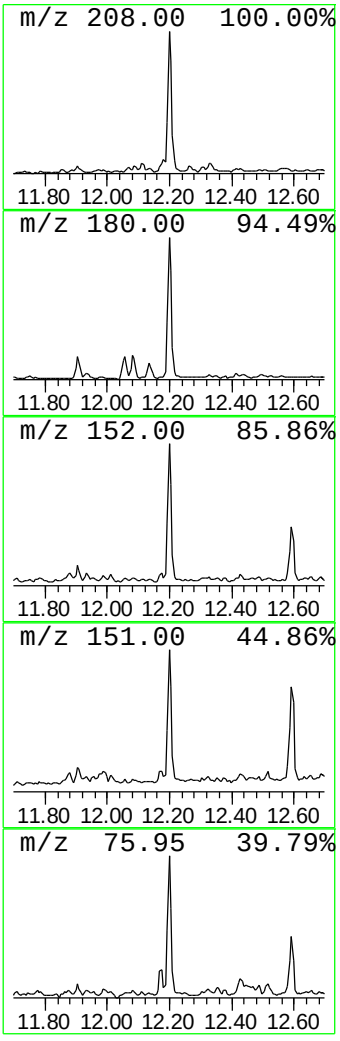
Peak Number 13 9,10-Anthracenedione Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	4.79 ng	234415	Phenanthrene-d10	11.37

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	83
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
4	1,4-Anthracenedione	208	C14H8O2	000635-12-1	53
5	1,3-Benzenedicarboxaldehyde, 2,4...	180	C9H8O4	010209-57-1	46





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TIC Library : C:\DATABASE\NIST11.L
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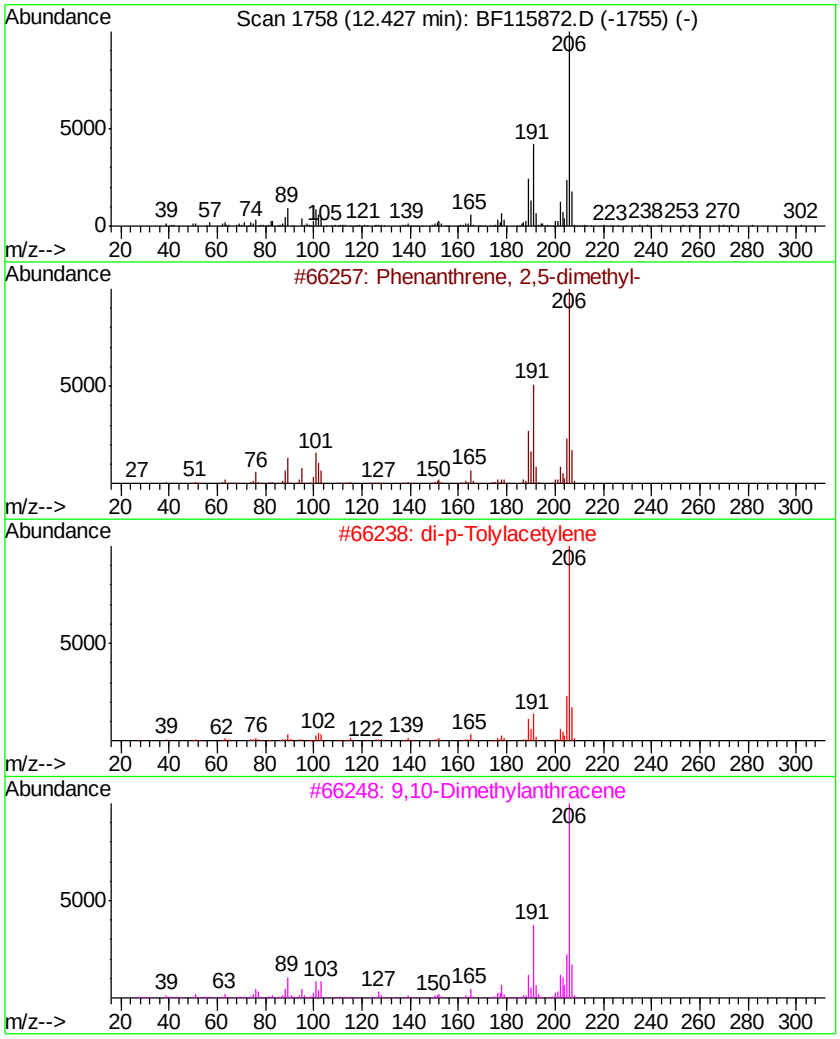
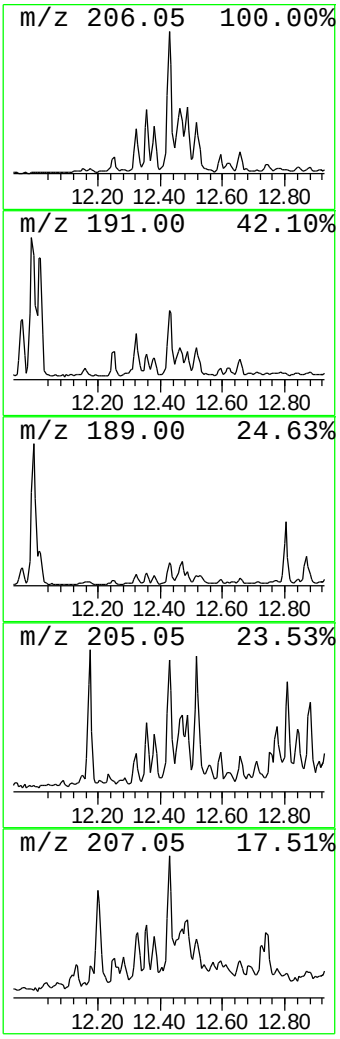
Peak Number 14 Phenanthrene, 2,5-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.43	4.13 ng	202143	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	93
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	91
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90





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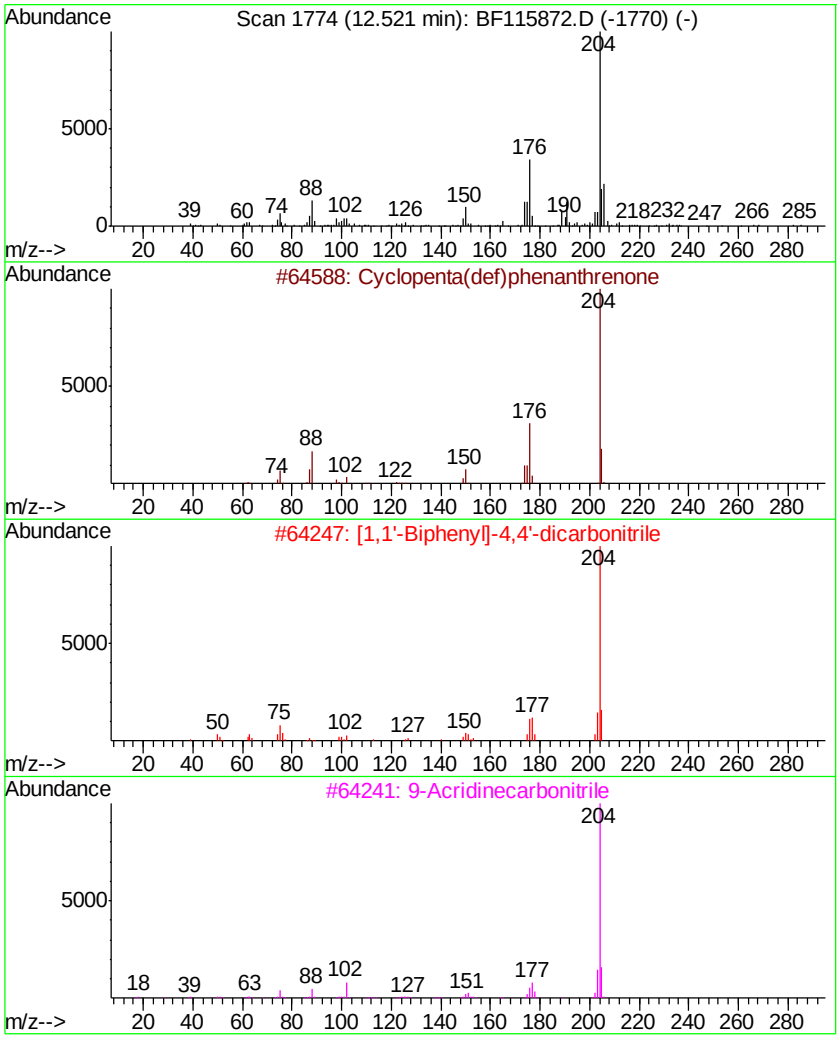
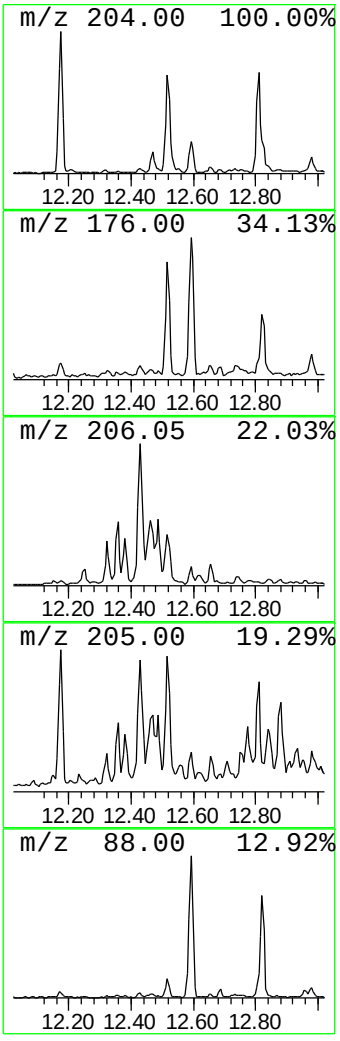
Peak Number 15 Cyclopenta(def)phenanthrenone Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.52	4.42 ng	216291	Phenanthrene-d10	11.37

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	50
3	9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	47
4	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	43
5	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	43





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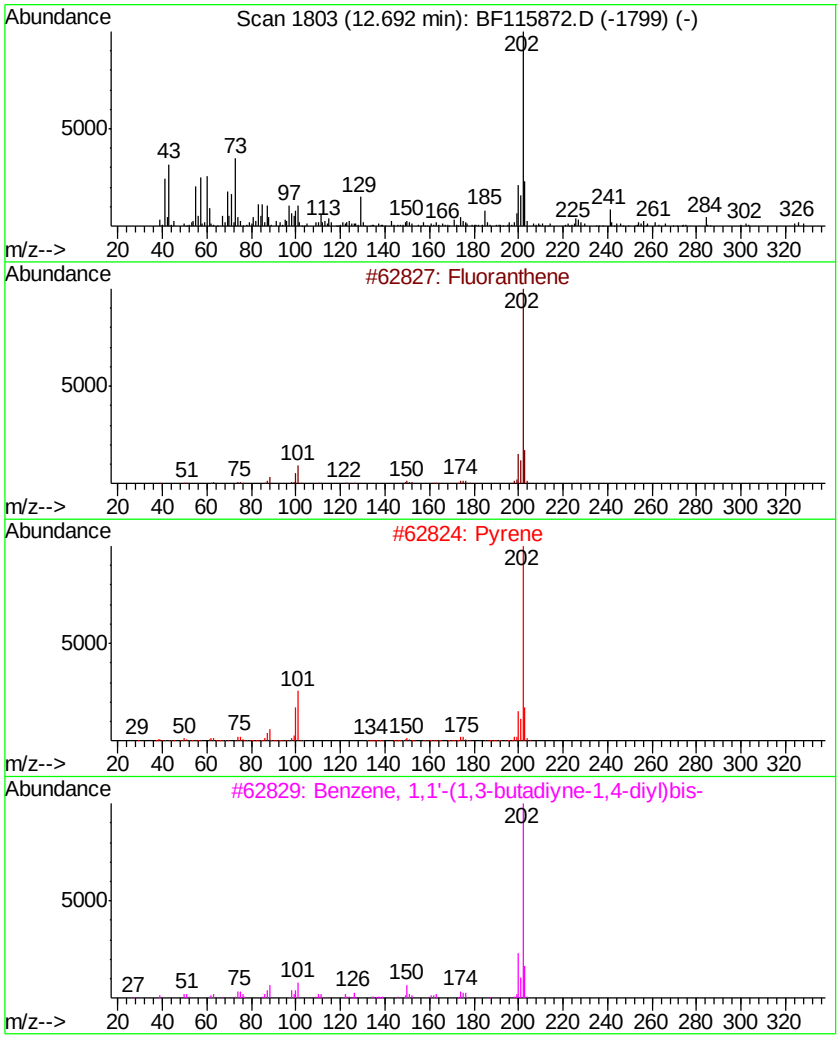
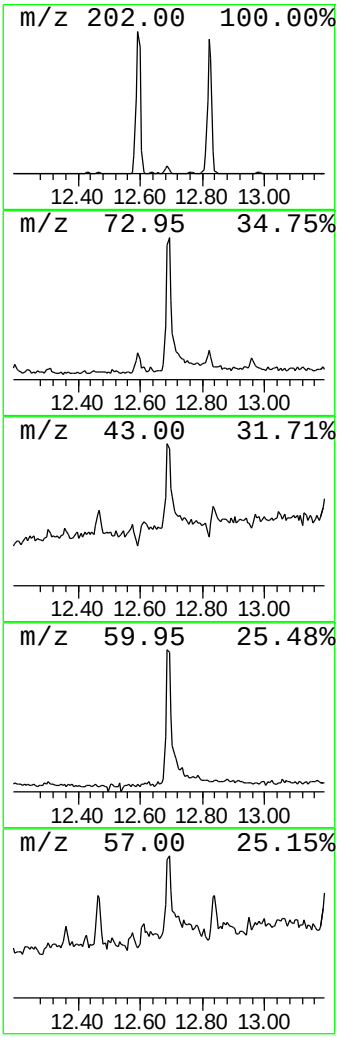
Peak Number 16 Benzene, 1,1'-(1,3-butadiyn... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.69	5.88 ng	287778	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene	202	C16H10	000206-44-0	93
2	Pyrene	202	C16H10	000129-00-0	78
3	Benzene, 1,1'-(1,3-butadiyne-1,4...	202	C16H10	000886-66-8	76
4	1,4-Pentadiyn-3-one, 1,5-diphenyl-	230	C17H10O	015814-30-9	40
5	1H-Indole-3-propanoic acid, 1-(t...	275	C15H21NO2Si	056196-72-6	40





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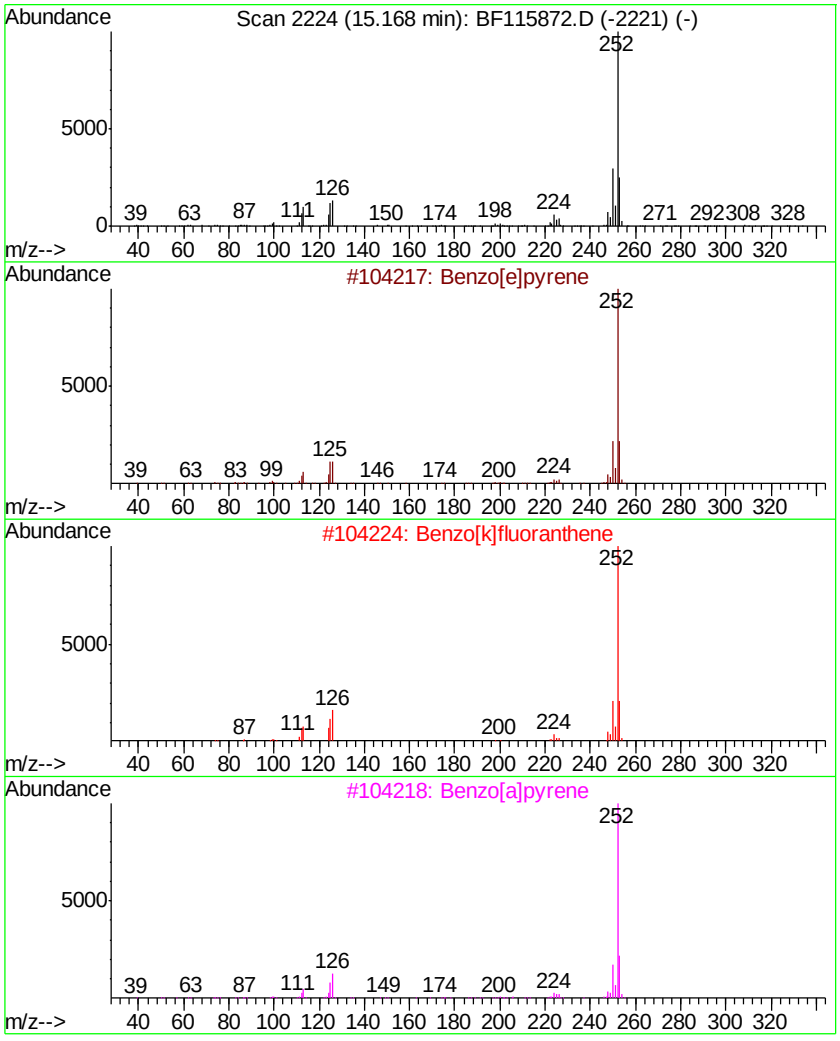
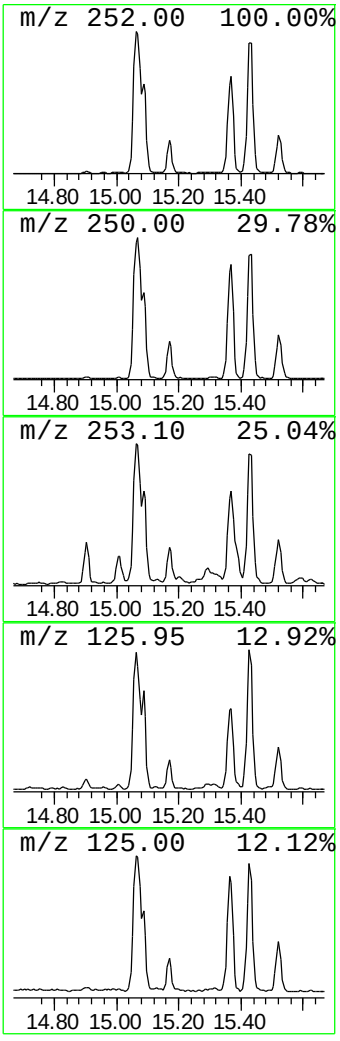
Peak Number 17 Benzo[e]pyrene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.17	4.70 ng	253520	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
3	Benzo[a]pyrene	252	C20H12	000050-32-8	95
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
5	Perylene	252	C20H12	000198-55-0	87





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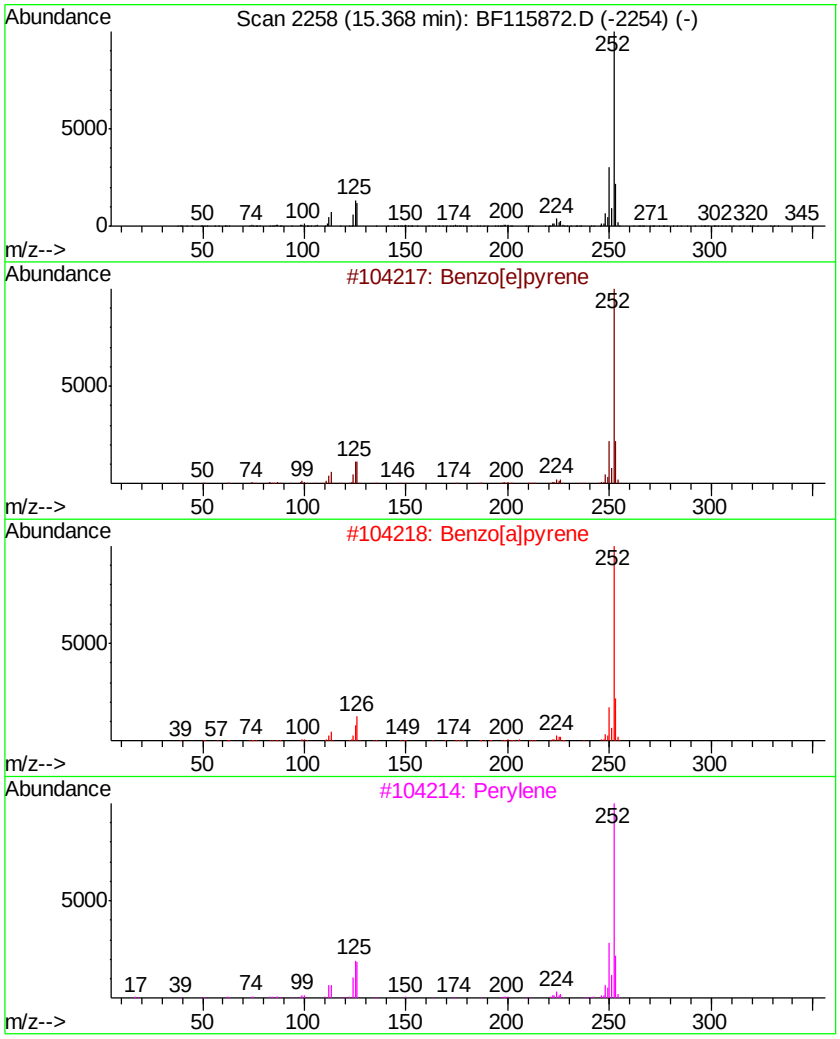
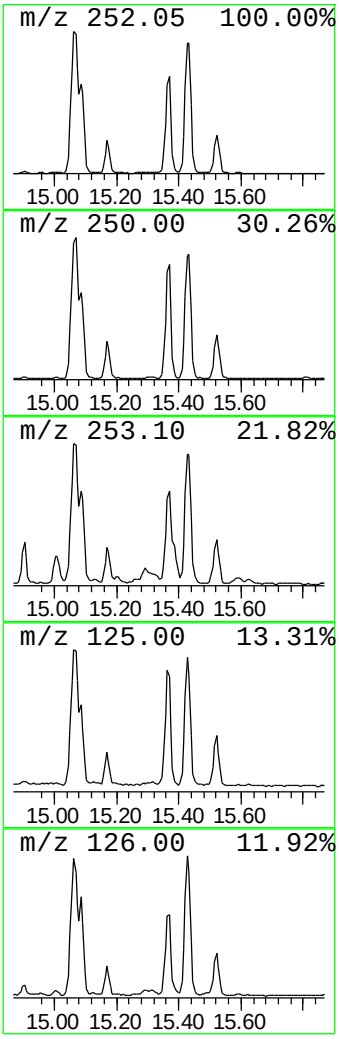
Peak Number 18 Benzo[j]fluoranthene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.37	20.76 ng	1120110	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Benzo[a]pyrene	252	C20H12	000050-32-8	98
3	Perylene	252	C20H12	000198-55-0	97
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	96
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	95





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Acq On : 31 Jul 2019 18:06
Operator : HP/JU
Sample : K4049-07
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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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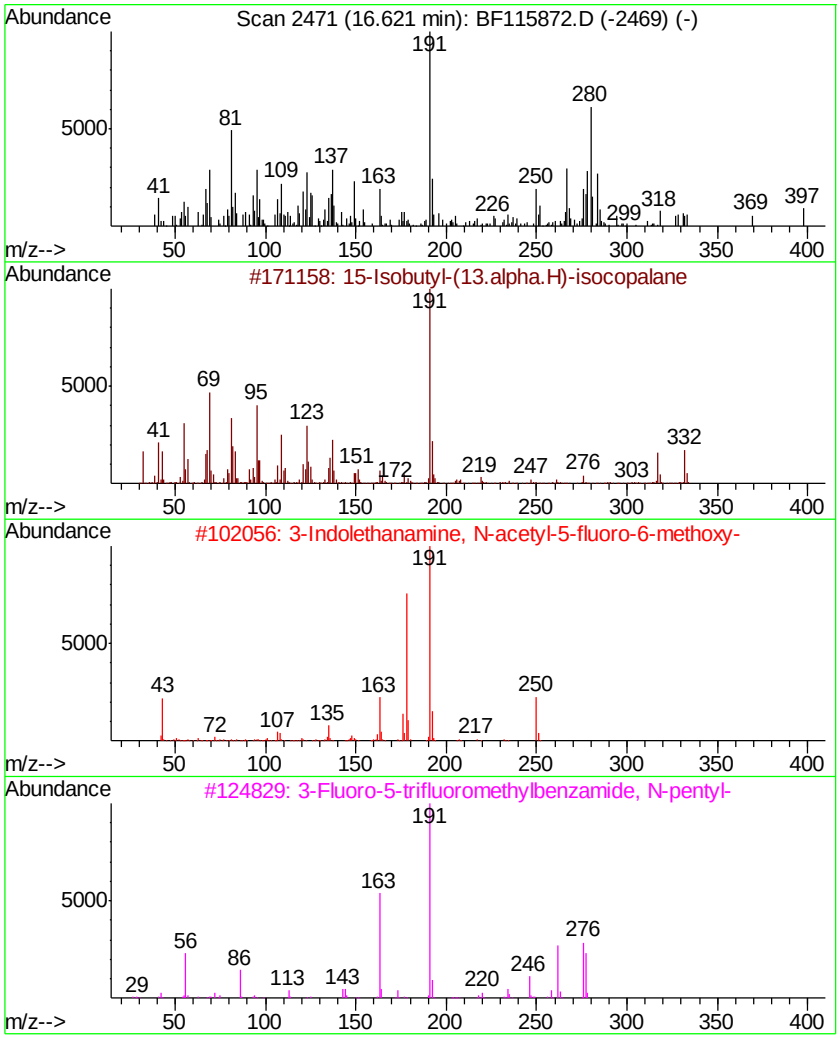
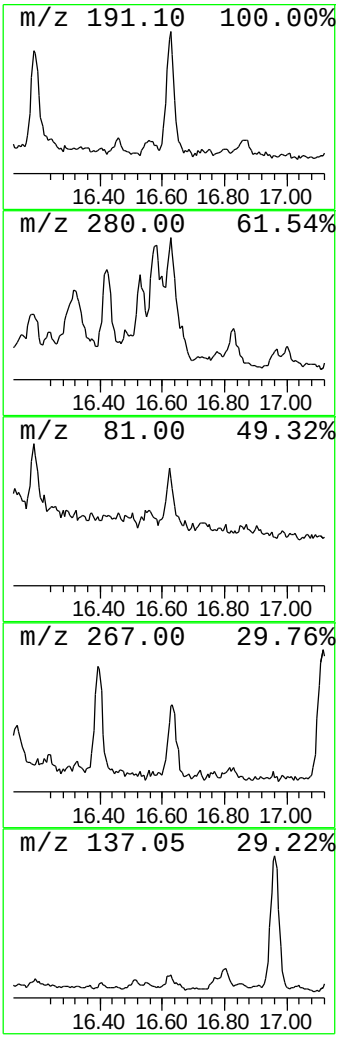
Peak Number 19 15-Isobutyl-(13.alpha.H)-is... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.62	4.96 ng	267611	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	15-Isobutyl-(13.alpha.H)-isocopa...	332	C24H44	087953-47-7	55
2	3-Indolethanamine, N-acetyl-5-fl...	250	C13H15FN2O2	1000116-27-1	42
3	3-Fluoro-5-trifluoromethylbenzam...	277	C13H15F4NO	1000358-14-1	35
4	Protriptyline, N-acetyl-	305	C21H23NO	023047-28-1	30
5	1,1-Diphenyl-2-propynyl dimethyl...	279	C18H17NO2	010473-88-8	27





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115872.D
Acq On : 31 Jul 2019 18:06
Operator : HP/JU
Sample : K4049-07
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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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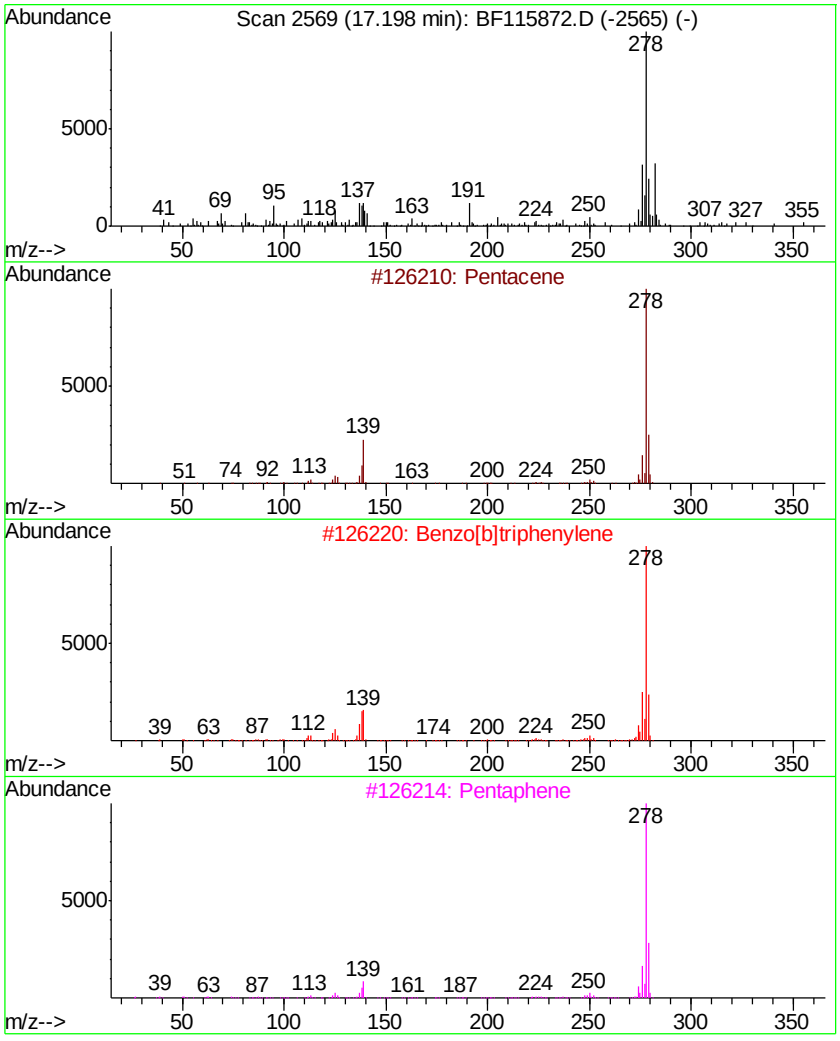
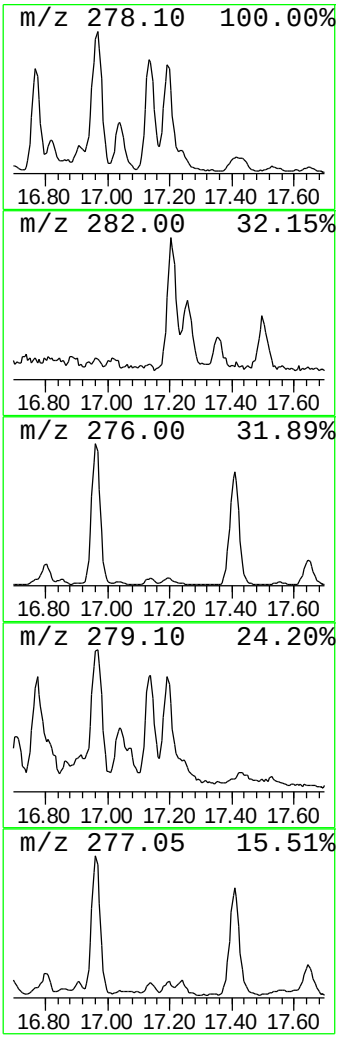
Peak Number 20 Pentacene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.20	3.19 ng	171872	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentacene	278	C22H14	000135-48-8	83
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	83
3	Pentaphene	278	C22H14	000222-93-5	78
4	Benzo[a]naphthacene	278	C22H14	000226-88-0	64
5	Naphtho[1,2-a]anthracene	278	C22H14	000195-06-2	60





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF073119\
Data File : BF115872.D
Acq On : 31 Jul 2019 18:06
Operator : HP/JU
Sample : K4049-07
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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...	2.13	24.9	ng	993400	1	6.85	797728	20.0
unknown6.62	6.62	74.4	ng	2967400	1	6.85	797728	20.0
9H-Fluoren-9-one	11.18	2.9	ng	144061	4	11.37	978735	20.0
Anthracene, 1,2,3...	11.24	2.6	ng	127555	4	11.37	978735	20.0
Naphtho[2,3-b]thi...	11.27	3.0	ng	147857	4	11.37	978735	20.0
Phenanthrene, 2-m...	11.88	6.4	ng	314835	4	11.37	978735	20.0
Phenanthrene, 1-m...	11.90	15.4	ng	755228	4	11.37	978735	20.0
Anthracene, 1-met...	11.96	3.1	ng	149614	4	11.37	978735	20.0
4H-Cyclopenta[def...	11.99	10.2	ng	497072	4	11.37	978735	20.0
Anthracene, 2-met...	12.01	3.9	ng	189732	4	11.37	978735	20.0
1,2,4,8-Tetrameth...	12.17	3.9	ng	190672	4	11.37	978735	20.0
9,10-Anthracenedione	12.20	4.8	ng	234415	4	11.37	978735	20.0
Phenanthrene, 2,5...	12.43	4.1	ng	202143	4	11.37	978735	20.0
Cyclopenta(def)ph...	12.52	4.4	ng	216291	4	11.37	978735	20.0
Benzene, 1,1'-(1,...	12.69	5.9	ng	287778	4	11.37	978735	20.0
Benzo[e]pyrene	15.17	4.7	ng	253520	6	15.49	1079150	20.0
Benzo[j]fluoranthene	15.37	20.8	ng	1120110	6	15.49	1079150	20.0
15-Isobutyl-(13.a...	16.62	5.0	ng	267611	6	15.49	1079150	20.0
Pentacene	17.20	3.2	ng	171872	6	15.49	1079150	20.0