LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071619\
Data File : BF115610.D
Acq On : 16 Jul 2019 21:05
Operator : HP/JU
Sample : K3623-03 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EO-02-071519-B

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-BF071219.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	2.140	4	9	16	rBV	367775	469608	17.73%	1.107%
2	3.963	311	319	327	rBV	585412	813764	30.72%	1.918%
3	5.498	576	580	594	rVB	1624035	1440712	54.39%	3.395%
4	6.504	747	751	754	rBV	1715121	1439175	54.33%	3.391%
5	6.651	772	776	779	rBV	1858182	1596270	60.27%	3.761%
6	6.881	812	815	819	rBV	1085605	927031	35.00%	2.184%
7	7.039	838	842	845	rBV	1637116	1260526	47.59%	2.970%
8	7.145	857	860	867	rBV2	22704	32627	1.23%	0.077%
9	7.434	902	909	916	rBV	957901	941208	35.53%	2.218%
10	8.163	1029	1033	1036	rBV	1405413	1155467	43.62%	2.723%
11	8.222	1040	1043	1047	rVB5	19821	30134	1.14%	0.071%
12	8.875	1151	1154	1158	rVB	51478	48590	1.83%	0.114%
13	8.975	1168	1171	1176	rBV2	69140	68589	2.59%	0.162%
14	9.239	1212	1216	1219	rBV	2034444	1636087	61.77%	3.855%
15	9.322	1227	1230	1235	rVB4	22872	31114	1.17%	0.073%
16	9.498	1257	1260	1265	rBV2	31852	48126	1.82%	0.113%
17	9.580	1271	1274	1276	rBV2	96693	89213	3.37%	0.210%
18	9.604	1276	1278	1280	rVV	89568	71277	2.69%	0.168%
19	9.628	1280	1282	1287	rVV	223309	217024	8.19%	0.511%
20	9.692	1291	1293	1299	rVB2	35450	44538	1.68%	0.105%
21	9.780	1303	1308	1313	rBV2	184460	216597	8.18%	0.510%
22	9.922	1328	1332	1335	rBV	1316528	1155964	43.64%	2.724%
23	9.951	1335	1337	1340	rVB	89993	72205	2.73%	0.170%
24	10.122	1362	1366	1370	rVB	63570	65653	2.48%	0.155%
25	10.163	1370	1373	1376	rBV	34251	31777	1.20%	0.075%
26	10.233	1382	1385	1388	rBV2	32681	39487	1.49%	0.093%
27	10.327	1397	1401	1403	rBV4	30028	42845	1.62%	0.101%
28	10.433	1417	1419	1422	rVB	68157	53484	2.02%	0.126%
29	10.463	1422	1424	1431	rVB2	95973	107313	4.05%	0.253%
30	10.533	1431	1436	1437	rBV2	28261	36960	1.40%	0.087%
31	10.575	1441	1443	1446	rVB2	39351	34628	1.31%	0.082%
32	10.704	1461	1465	1478	rBV	1042506	977485	36.90%	2.303%
33	10.827	1483	1486	1493	rVB3	85164	125697	4.75%	0.296%
34	11.016	1514	1518	1520	rBV4	44253	50176	1.89%	0.118%

LSC Area Percent Report

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Data File : BF115610.D
Acq On : 16 Jul 2019 21:05
Operator : HP/JU
Sample : K3623-03 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EO-02-071519-B

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-BF071219.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.039	1520	1522	1525	rVV2	43082	41929	1.58%	0.099%
36	11.098	1529	1532	1535	rVB	32921	29401	1.11%	0.069%
37	11.145	1535	1540	1541	rBV4	20691	28882	1.09%	0.068%
38	11.163	1541	1543	1547	rVV2	42228	44301	1.67%	0.104%
39	11.204	1547	1550	1555	rVB	144868	146634	5.54%	0.346%
40	11.274	1560	1562	1564	rVV2	55330	50465	1.91%	0.119%
41	11.298	1564	1566	1572	rVB	135539	141099	5.33%	0.332%
42	11.404	1580	1584	1586	rBV	1400468	1207358	45.58%	2.845%
43	11.427	1586	1588	1591	rVV	1872520	1548460	58.46%	3.649%
44	11.457	1591	1593	1594	rVV	106860	88424	3.34%	0.208%
45	11.480	1594	1597	1600	rVV	440712	399022	15.06%	0.940%
46	11.510	1600	1602	1606	rVB2	45463	54131	2.04%	0.128%
47	11.580	1612	1614	1617	rVB2	37844	34018	1.28%	0.080%
48	11.627	1617	1622	1626	rBV	309374	329149	12.43%	0.776%
49	11.698	1632	1634	1636	rBV	82098	58319	2.20%	0.137%
50	11.733	1637	1640	1643	rVB	98147	87009	3.28%	0.205%
51	11.798	1647	1651	1653	rBV	564394	443931	16.76%	1.046%
52	11.816	1653	1654	1657	rVB	51411	41314	1.56%	0.097%
53	11.857	1658	1661	1663	rBV	47400	44321	1.67%	0.104%
54	11.904	1666	1669	1671	rBV	331899	291612	11.01%	0.687%
55	11.933	1671	1674	1679	rVB2	601621	579181	21.87%	1.365%
56	11.980	1679	1682	1685	rBV	146807	108556	4.10%	0.256%
57	12.016	1685	1688	1691	rBV2	402720	474503	17.91%	1.118%
58	12.039	1691	1692	1697	rVB	263027	165314	6.24%	0.390%
59	12.086	1697	1700	1701	rBV3	30073	34399	1.30%	0.081%
60	12.104	1701	1703	1707	rVV	70961	65874	2.49%	0.155%
61	12.139	1707	1709	1711	rVB2	39416	30509	1.15%	0.072%
62	12.198	1716	1719	1721	rBV	188985	160901	6.07%	0.379%
63	12.221	1721	1723	1730	rVB2	221739	218506	8.25%	0.515%
64	12.274	1730	1732	1736	rBV2	35080	43730	1.65%	0.103%
65	12.333	1739	1742	1743	rBV	53531	53448	2.02%	0.126%
66	12.351	1743	1745	1748	rVB	85010	63307	2.39%	0.149%
67	12.380	1748	1750	1752	rBV	107031	83864	3.17%	0.198%
68	12.404	1752	1754	1757	rVB2	90261	76890	2.90%	0.181%
69	12.457	1759	1763	1765	rBV	294549	301022	11.36%	0.709%
70	12.480	1765	1767	1769	rVV	1267946	1188706	44.88%	2.801%
71	12.504	1769	1771	1775	rVV	1776864	1568540	59.22%	3.696%

LSC Area Percent Report

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Acq On : 16 Jul 2019 21:05
Operator : HP/JU
Sample : K3623-03 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EO-02-071519-B

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-BF071219.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	12.539	1775	1777	1782	rVB	239965	240877	9.09%	0.568%
73	12.586	1782	1785	1787	rBV2	208402	180833	6.83%	0.426%
74	12.621	1787	1791	1794	rBV	2304292	2162402	81.64%	5.096%
75	12.663	1796	1798	1799	rBV	48205	33416	1.26%	0.079%
76	12.710	1804	1806	1809	rBV2	165114	159870	6.04%	0.377%
77	12.769	1814	1816	1820	rBV3	79355	78419	2.96%	0.185%
78	12.845	1823	1829	1835	rBV	2264163	2648711	100.00%	6.241%
79	12.904	1835	1839	1842	rVB2	120858	167296	6.32%	0.394%
80	12.963	1846	1849	1850	rBV	116702	97094	3.67%	0.229%
81	12.986	1850	1853	1861	rVB	2056449	1828692	69.04%	4.309%
82	13.063	1863	1866	1869	rBV2	197983	257162	9.71%	0.606%
83	13.151	1878	1881	1883	rBV2	176430	204731	7.73%	0.482%
84	13.168	1883	1884	1888	rVB	258635	206144	7.78%	0.486%
85	13.239	1891	1896	1898	rBV2	127832	166553	6.29%	0.392%
86	13.274	1899	1902	1905	rBV2	258919	264716	9.99%	0.624%
87	13.368	1916	1918	1921	rVB	222578	166008	6.27%	0.391%
88	13.398	1921	1923	1927	rVB	228458	196962	7.44%	0.464%
89	13.680	1968	1971	1975	rVB	321643	348294	13.15%	0.821%
90	13.792	1985	1990	1993	rBV2	246872	439751	16.60%	1.036%
91	13.821	1993	1995	1997	rVB	152493	114539	4.32%	0.270%
92	13.845	1997	1999	2002	rBV2	130189	152793	5.77%	0.360%
93	13.886	2003	2006	2008	rBV2	208389	191290	7.22%	0.451%
94	14.039	2027	2032	2035	rBV3	1529065	2218810	83.77%	5.228%
95	14.068	2035	2037	2040	rVB	974815	761381	28.75%	1.794%
96	14.551	2117	2119	2122	rBV	224488	261432	9.87%	0.616%
97	15.086	2206	2210	2213	rBV	619182	922903	34.84%	2.175%
98	15.392	2259	2262	2268	rVB	454809	576917	21.78%	1.359%
99	15.451	2268	2272	2279	rBV	552932	862212	32.55%	2.032%
100	15.515	2279	2283	2286	rBV	654979	828508	31.28%	1.952%

Sum of corrected areas: 42437096

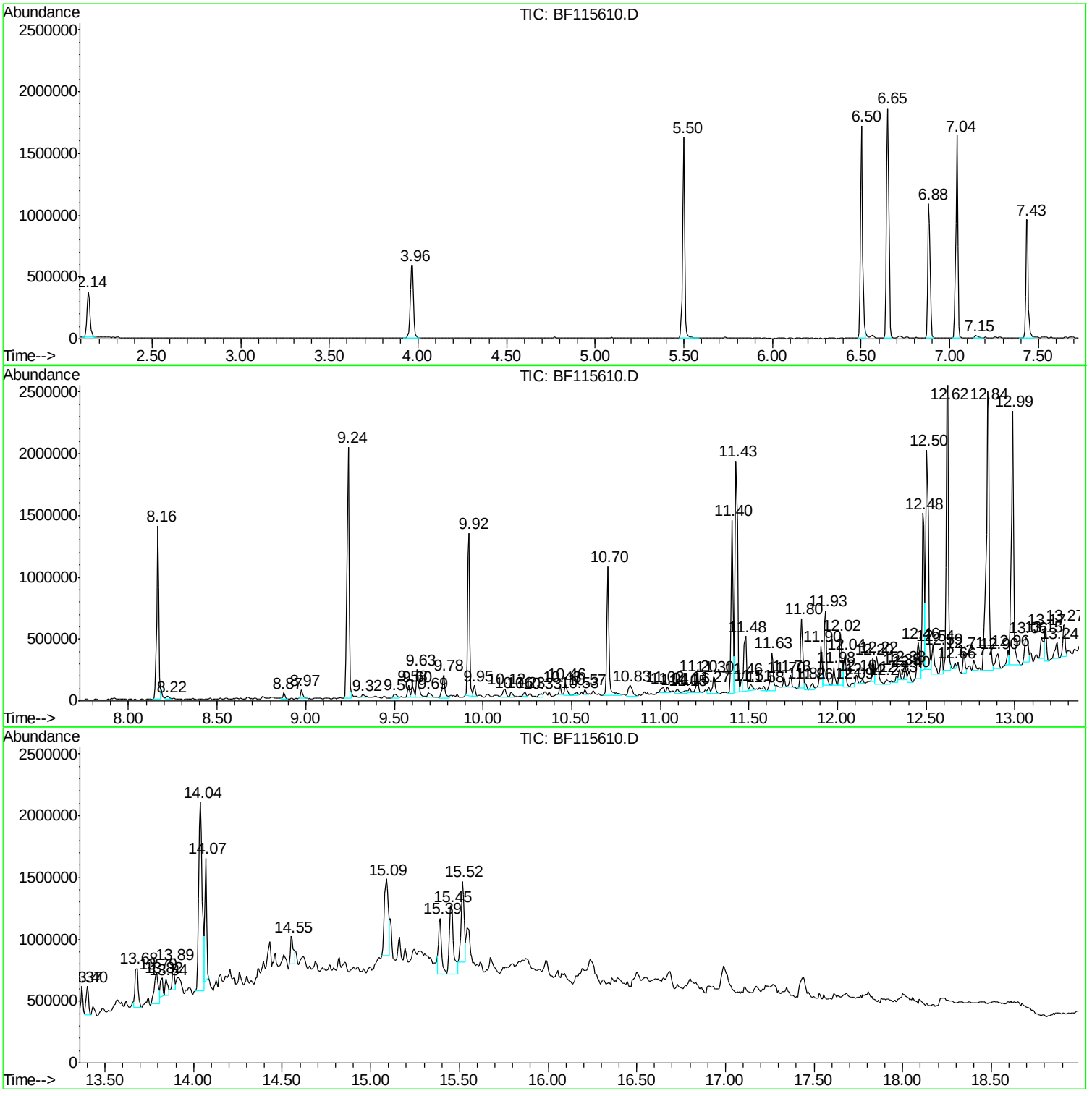
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071619\
Data File : BF115610.D
Acq On : 16 Jul 2019 21:05
Operator : HP/JU
Sample : K3623-03 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
EO-02-071519-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.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\BF071619\
Data File : BF115610.D
Acq On : 16 Jul 2019 21:05
Operator : HP/JU
Sample : K3623-03 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EO-02-071519-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

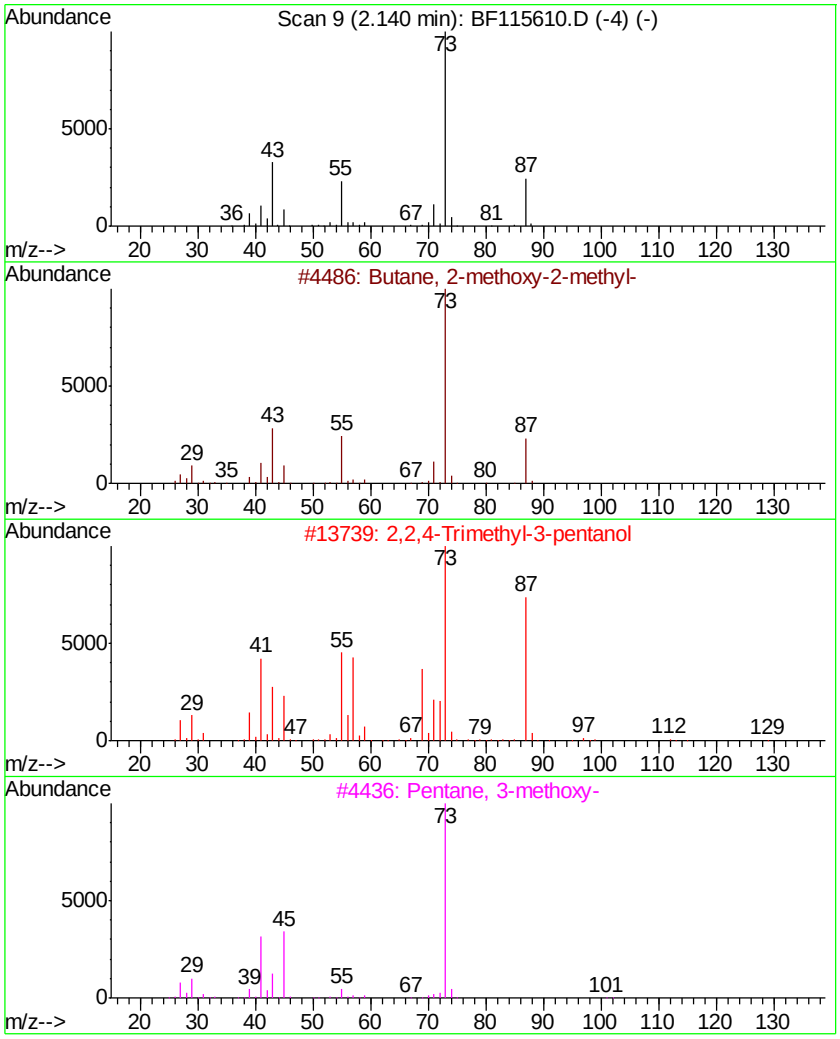
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

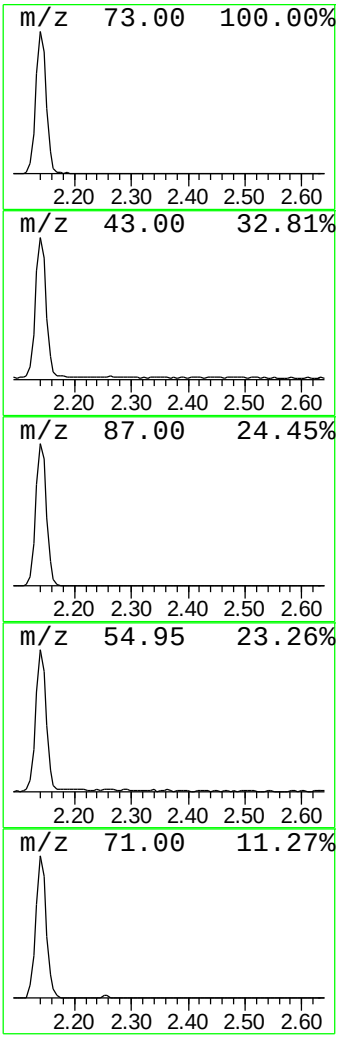
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.14	10.13 ng	469608	1,4-Dichlorobenzene-d4	6.88

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	39
3	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	23
4	Silane, tetramethyl-	88	C4H12Si	000075-76-3	17
5	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	9





Library Search Compound Report

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Acq On : 16 Jul 2019 21:05
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Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EO-02-071519-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

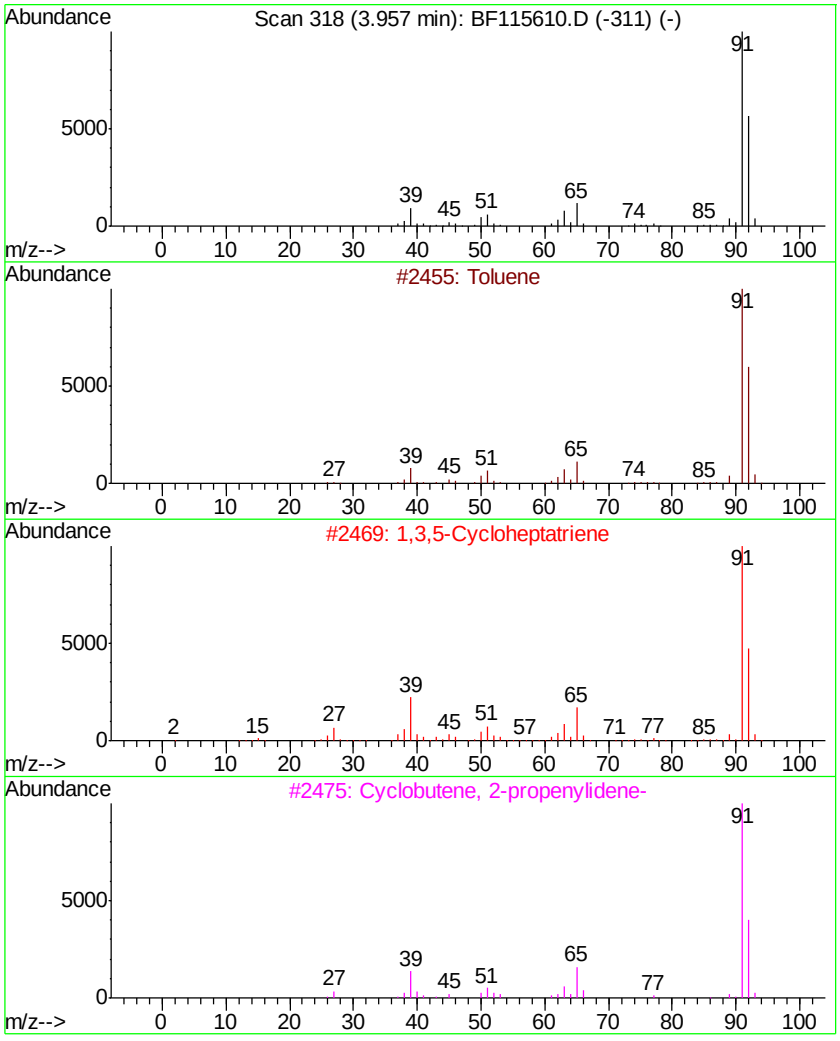
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

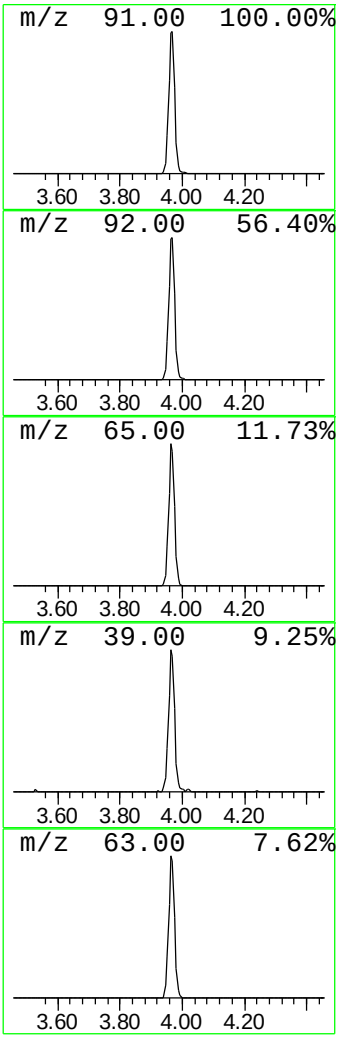
****

Peak Number 2 1,3,5-Cycloheptatriene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.96	17.56 ng	813764	1,4-Dichlorobenzene-d4	6.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Toluene	92	C7H8	000108-88-3	94
2	1,3,5-Cycloheptatriene	92	C7H8	000544-25-2	87
3	Cyclobutene, 2-propenylidene-	92	C7H8	052097-85-5	78
4	2,5-Norbornadiene	92	C7H8	000121-46-0	64
5	Tetracyclo[3.2.0.0(2,7).0(4,6)]h...	92	C7H8	000278-06-8	64





Library Search Compound Report

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Acq On : 16 Jul 2019 21:05
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Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EO-02-071519-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

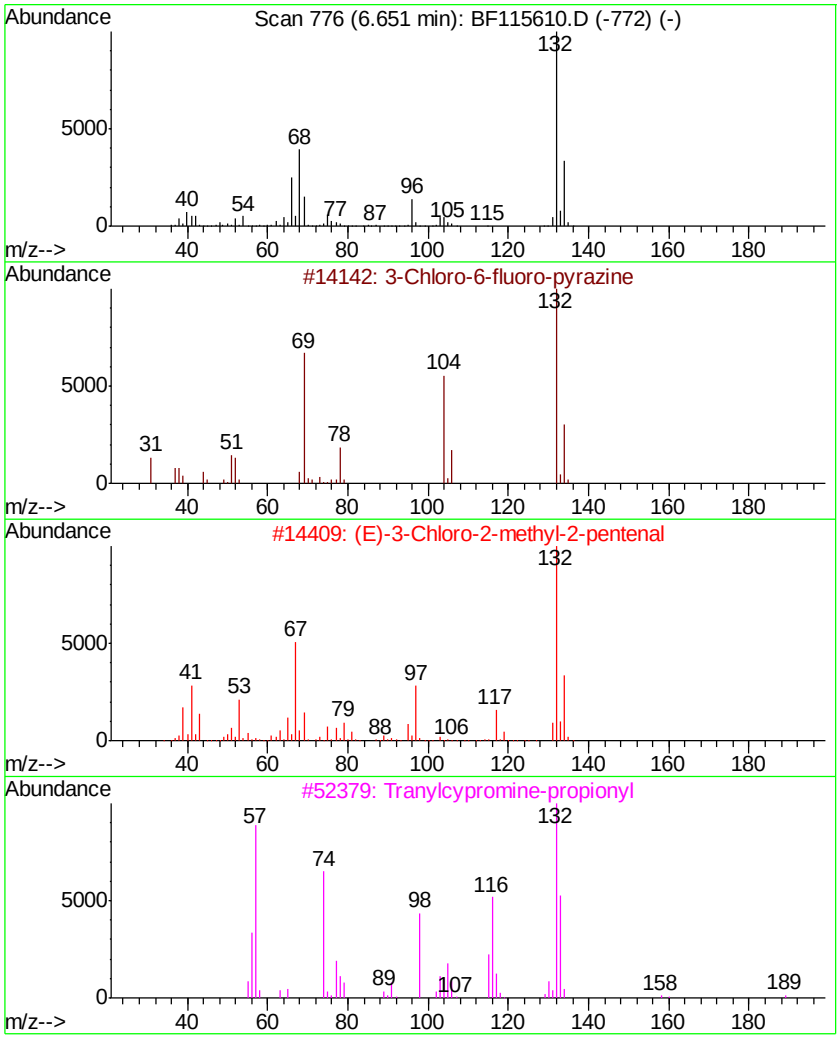
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

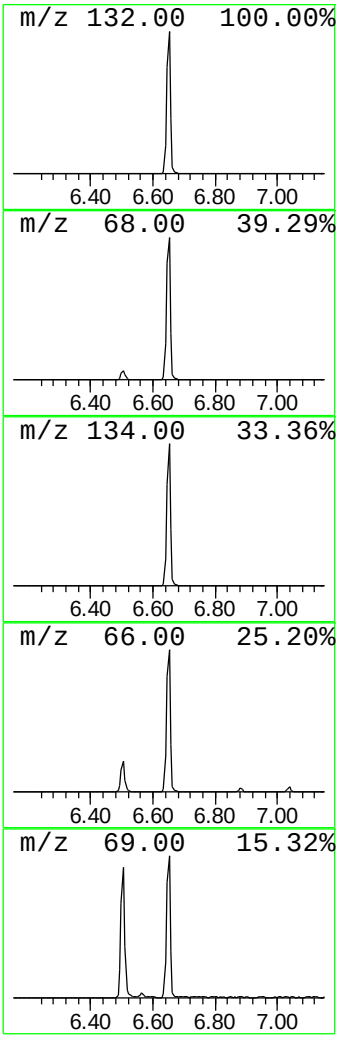
****

Peak Number 3 unknown6.65 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.65	34.44 ng	1596270	1,4-Dichlorobenzene-d4	6.88

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	16
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
4	5-Aminoindole	132	C8H8N2	005192-03-0	12
5	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9





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Data File : BF115610.D
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Sample : K3623-03 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

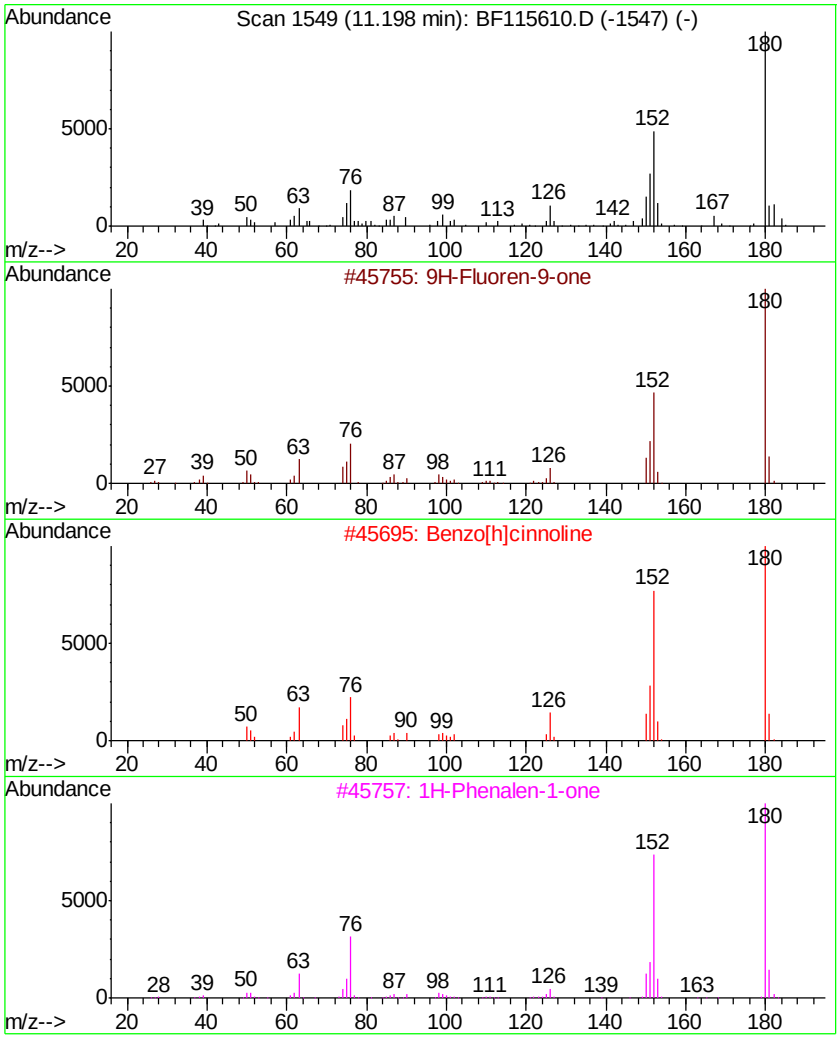
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

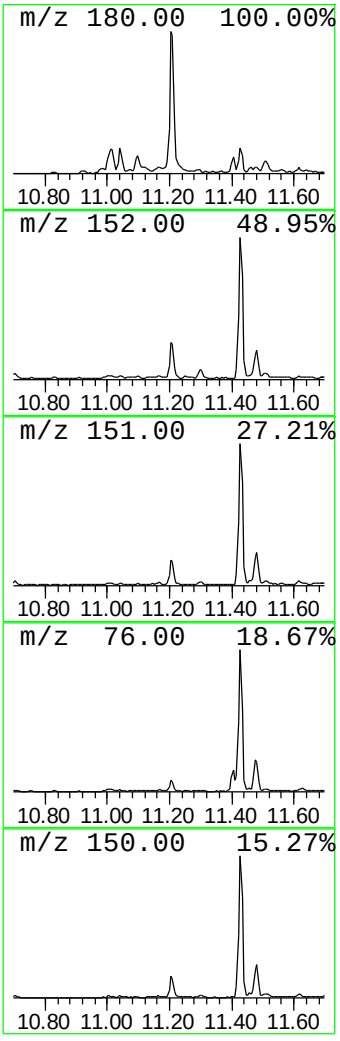
****

Peak Number 5 9H-Fluoren-9-one Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.20	2.43 ng	146634	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	97
2	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	91
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	49
4	Benzaldehyde, 4-nitro-, O-methyl...	180	C8H8N2O3	033499-32-0	43
5	1,7-Phenanthroline	180	C12H8N2	000230-46-6	43





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071619\
Data File : BF115610.D
Acq On : 16 Jul 2019 21:05
Operator : HP/JU
Sample : K3623-03 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EO-02-071519-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

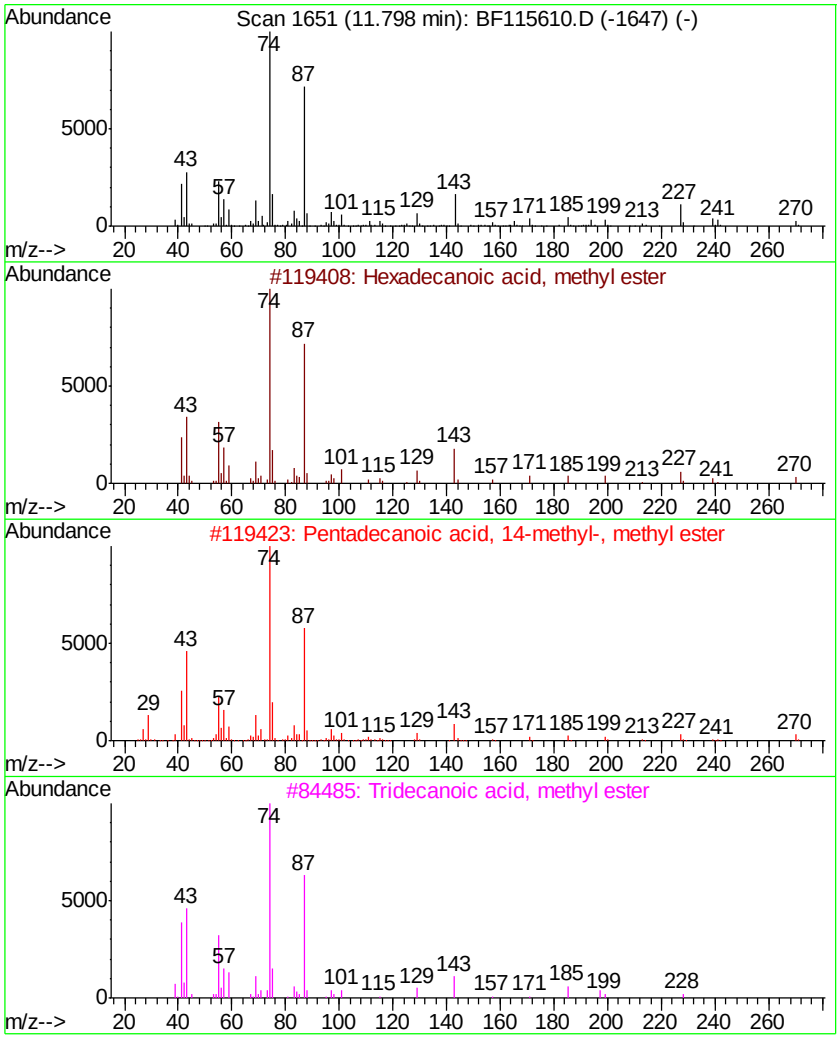
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

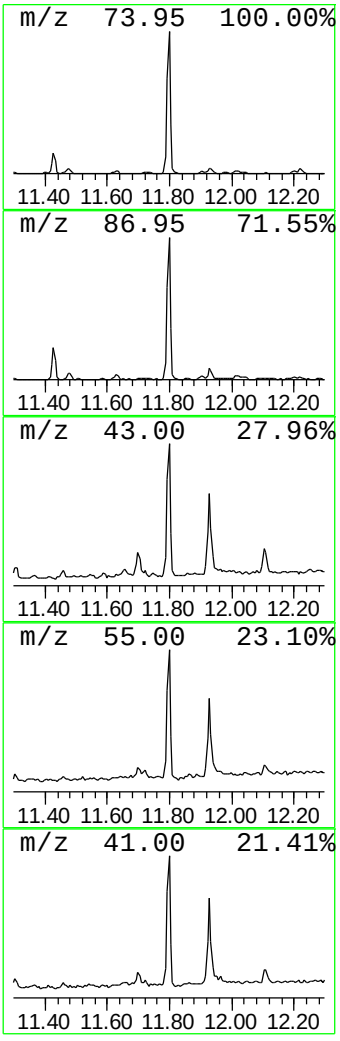
****

Peak Number 6 Hexadecanoic acid, methyl e... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.80	7.35 ng	443931	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanoic acid, methyl ester	270	C17H34O2	000112-39-0	98
2	Pentadecanoic acid, 14-methyl-, ...	270	C17H34O2	005129-60-2	96
3	Tridecanoic acid, methyl ester	228	C14H28O2	001731-88-0	90
4	Pentadecanoic acid, methyl ester	256	C16H32O2	007132-64-1	86
5	Methyl tetradecanoate	242	C15H30O2	000124-10-7	83





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Operator : HP/JU
Sample : K3623-03 2X
Misc :
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Instrument : BNA_F
ClientSampleId : EO-02-071519-B

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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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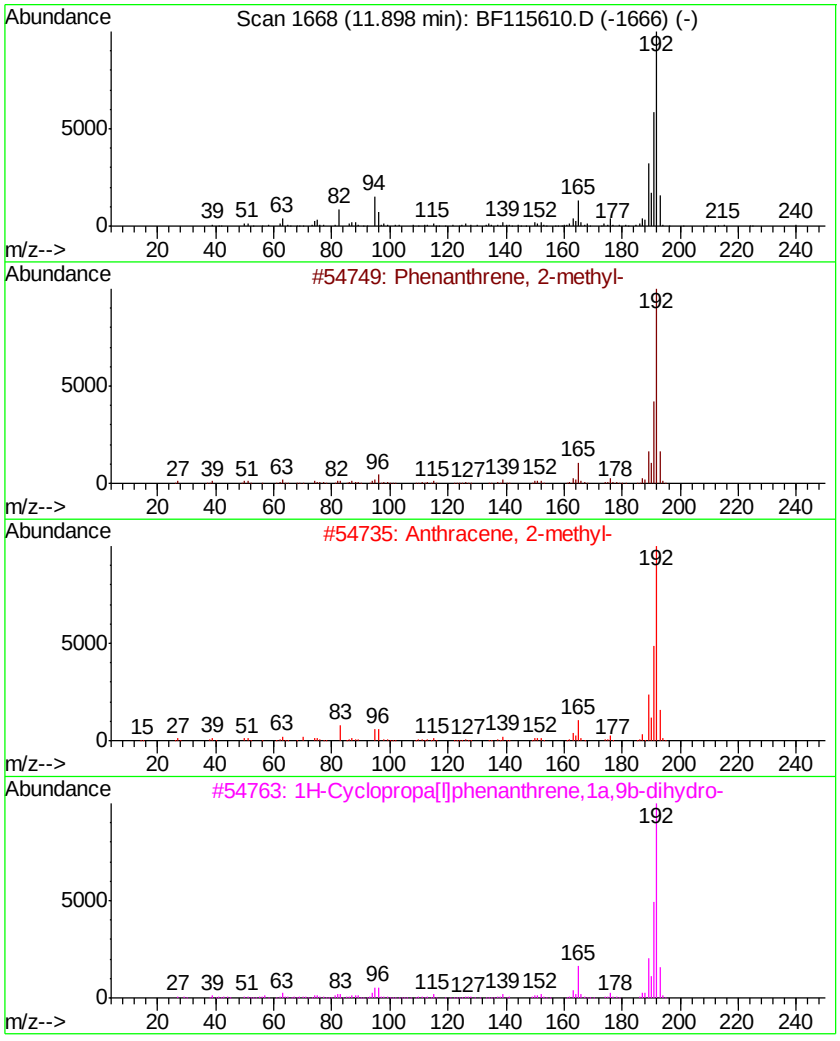
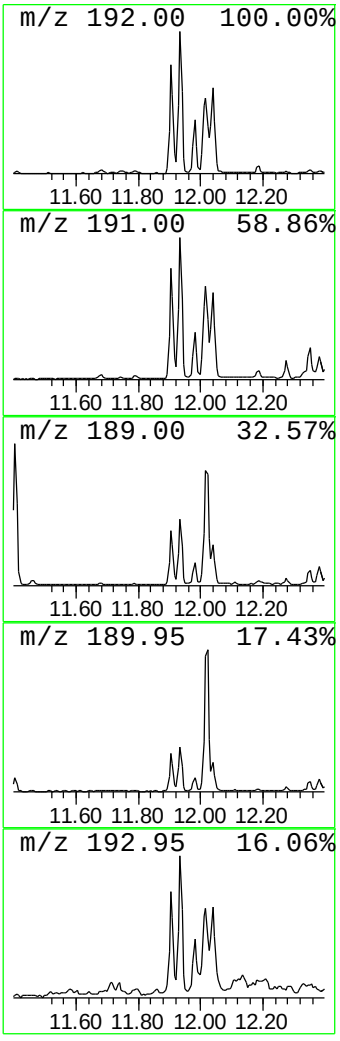
Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	4.83 ng	291612	Phenanthrene-d10	11.40

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	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90





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Instrument : BNA_F
ClientSampleId : EO-02-071519-B

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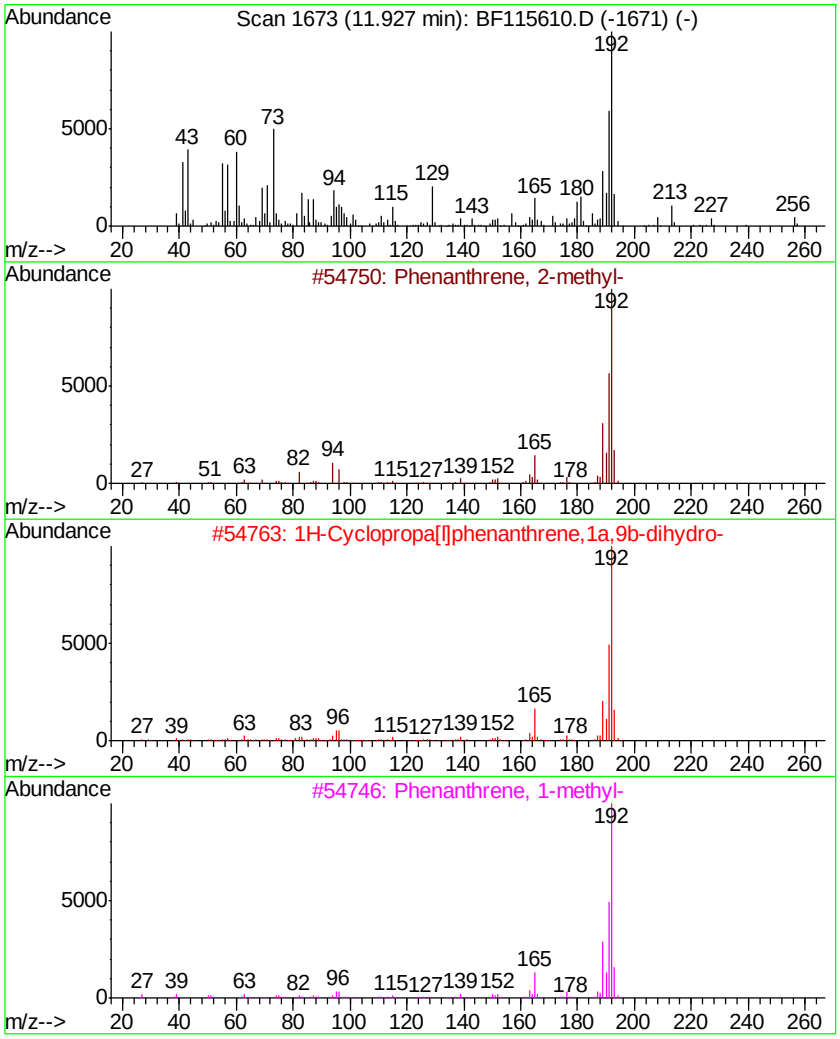
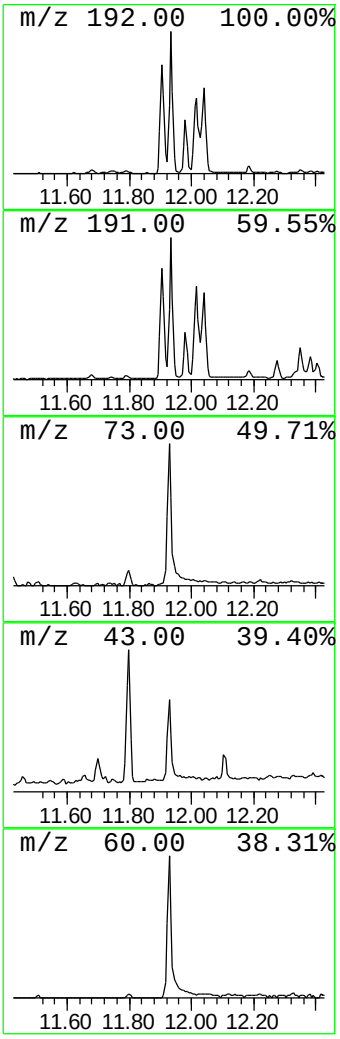
Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.93	9.59 ng	579181	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94





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Misc :
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Instrument : BNA_F
ClientSampleId : EO-02-071519-B

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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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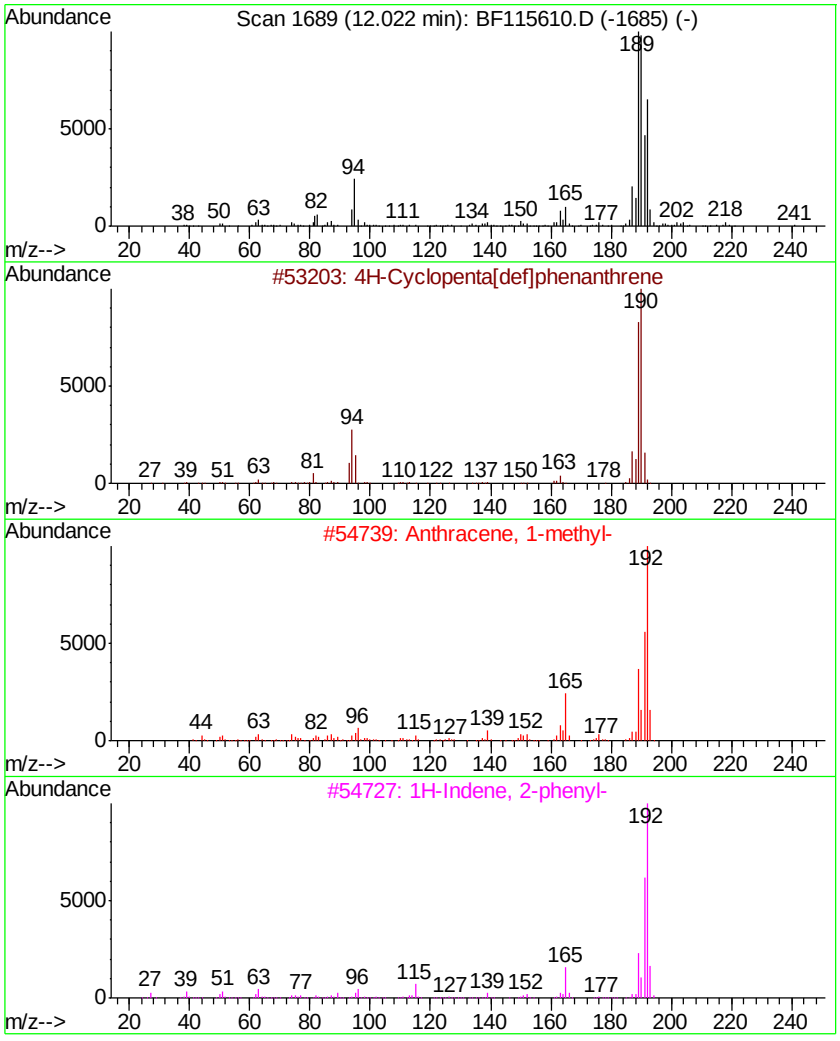
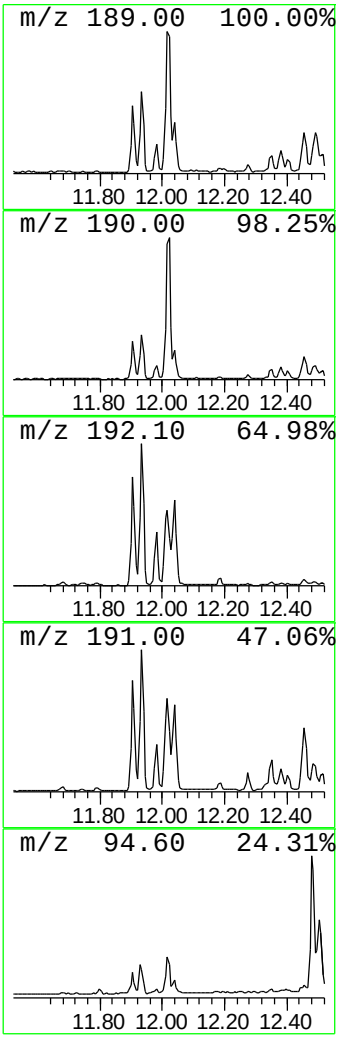
Peak Number 9 unknown12.02 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.02	7.86 ng	474503	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	46
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	42
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	42
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	42
5	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	42





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Sample : K3623-03 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EO-02-071519-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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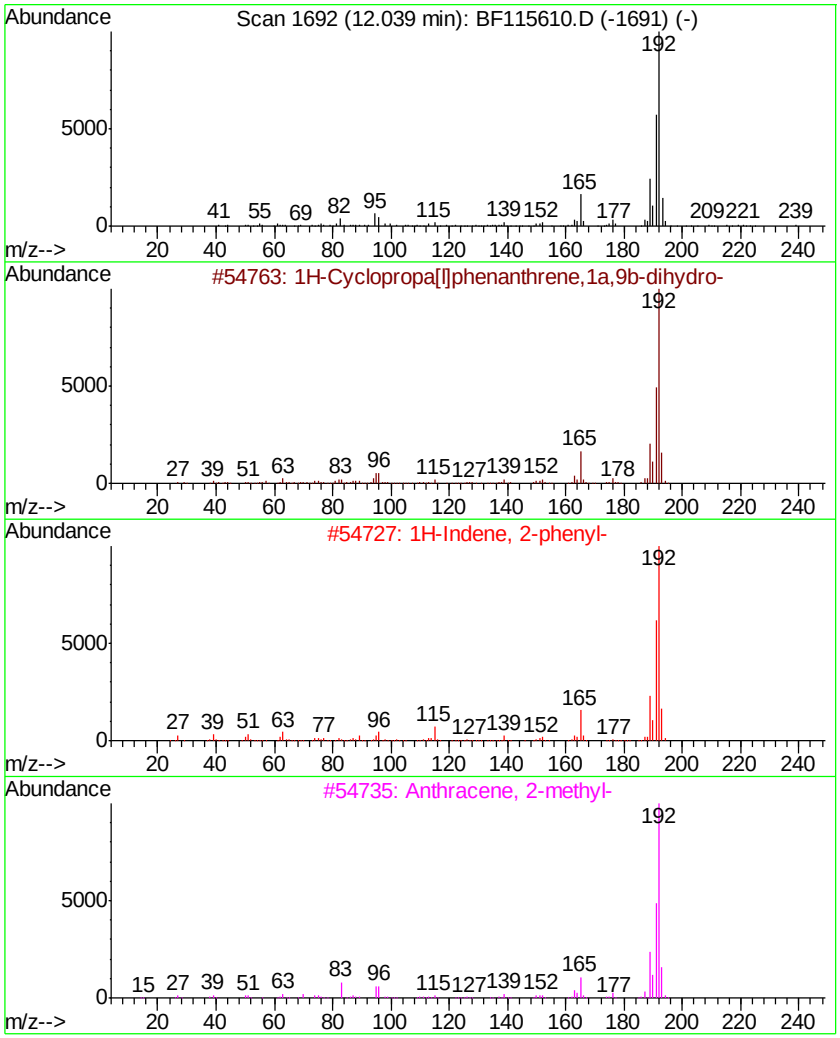
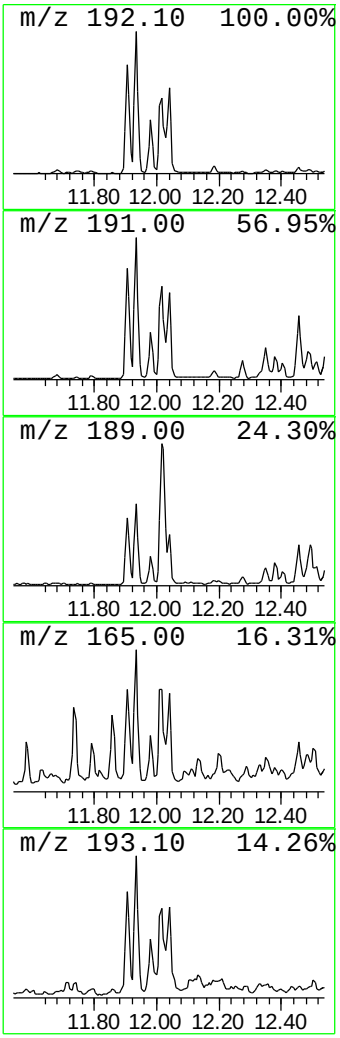
Peak Number 10 1H-Cyclopropa[l]phenanthren... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.04	2.74 ng	165314	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	97
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93





Library Search Compound Report

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ALS Vial : 16 Sample Multiplier: 1

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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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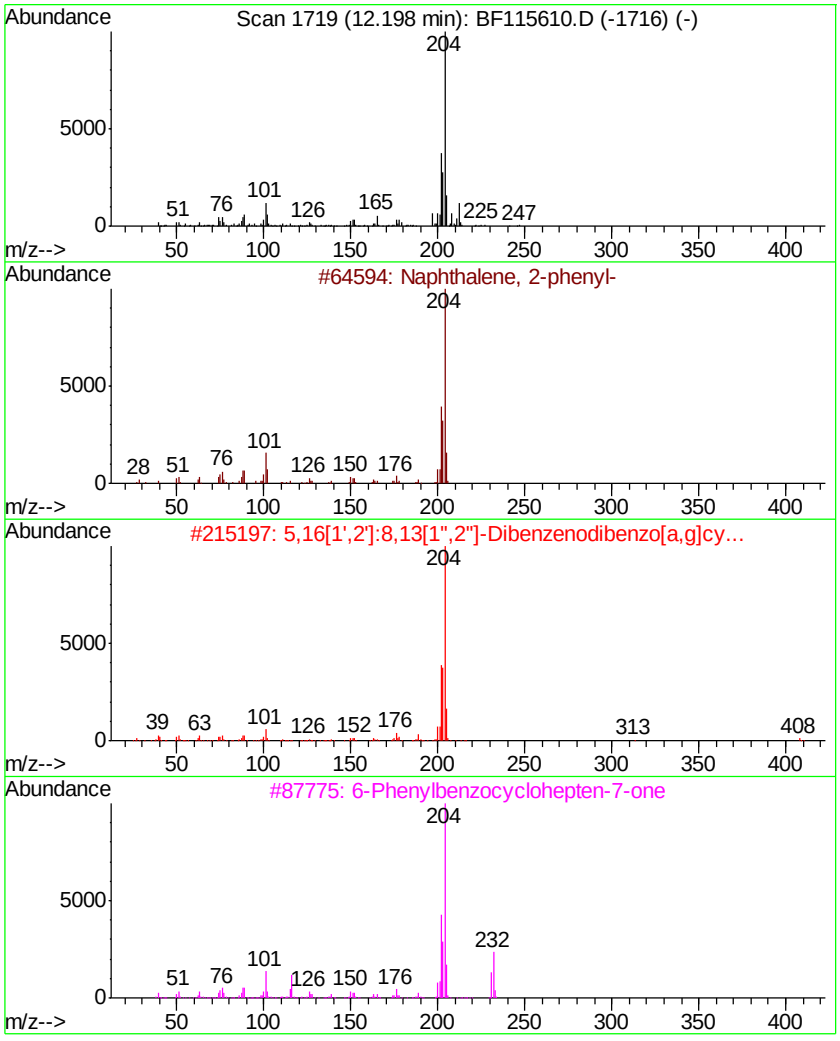
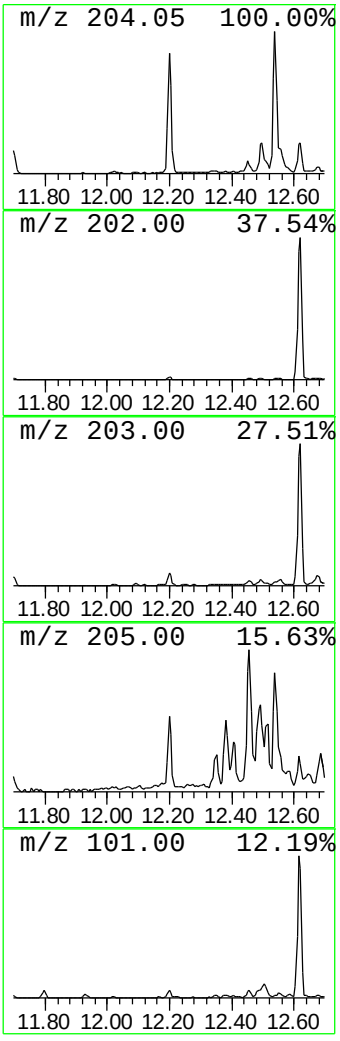
Peak Number 11 Naphthalene, 2-phenyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	2.67 ng	160901	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	80
3	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	80
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	58
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	58





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Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EO-02-071519-B

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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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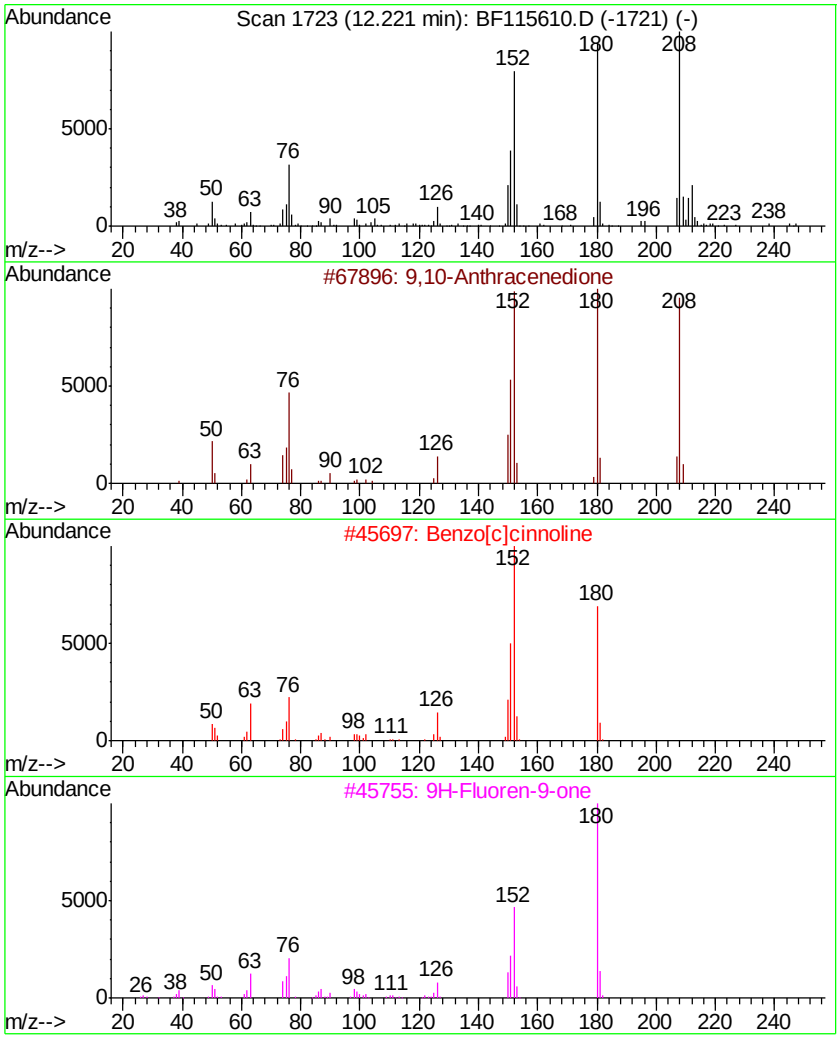
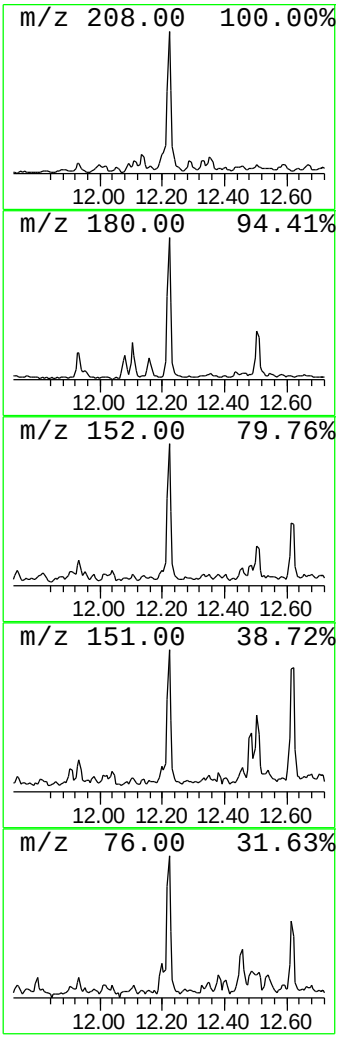
Peak Number 12 9,10-Anthracenedione Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.22	3.62 ng	218506	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	83
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	58
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	55
5	1,4-Anthracenedione	208	C14H8O2	000635-12-1	53





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Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EO-02-071519-B

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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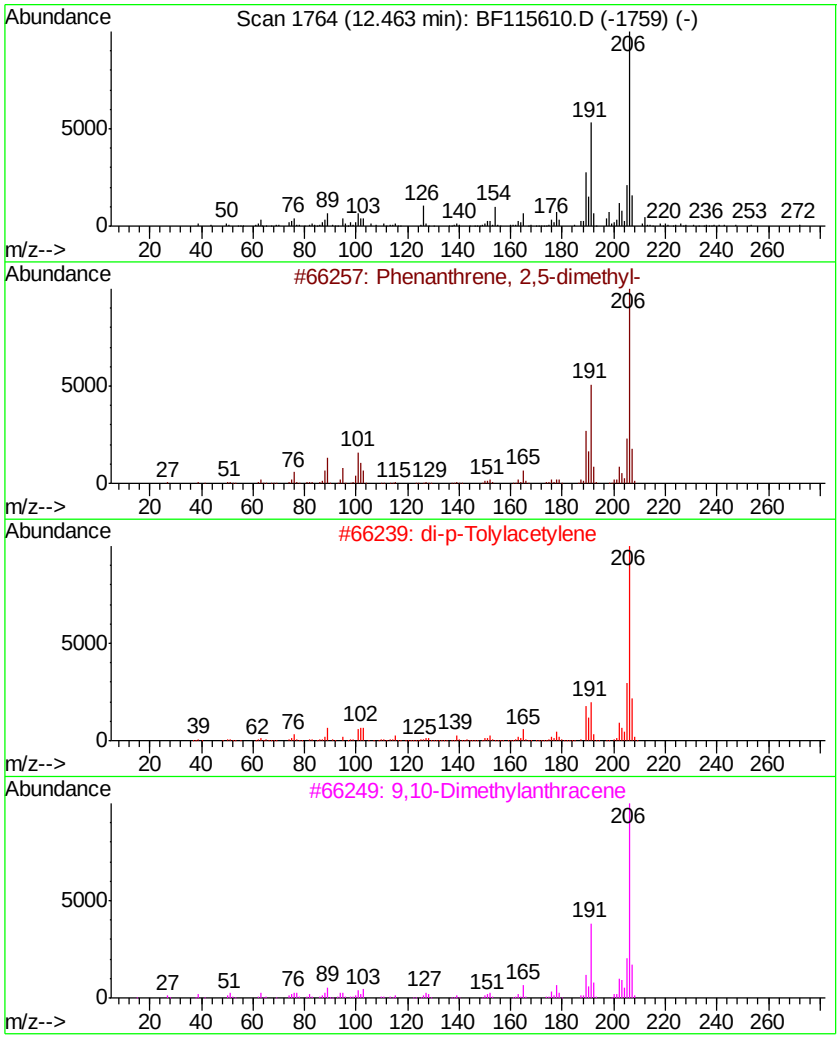
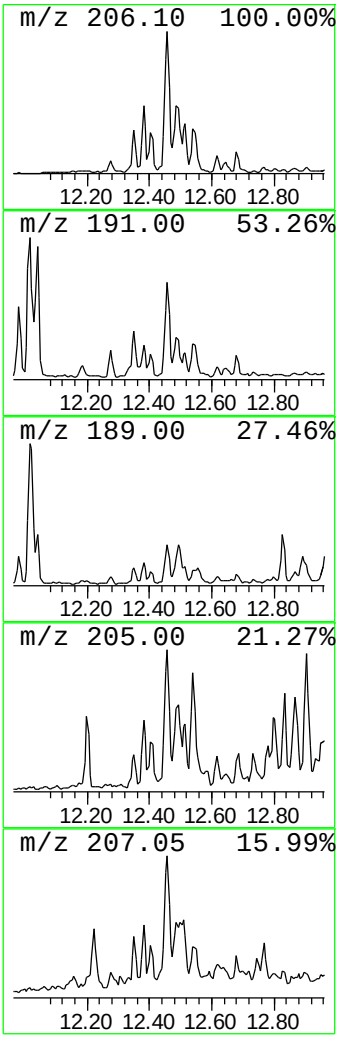
Peak Number 13 Phenanthrene, 2,5-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	4.99 ng	301022	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	98
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	93
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	89
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87





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ClientSampleId : EO-02-071519-B

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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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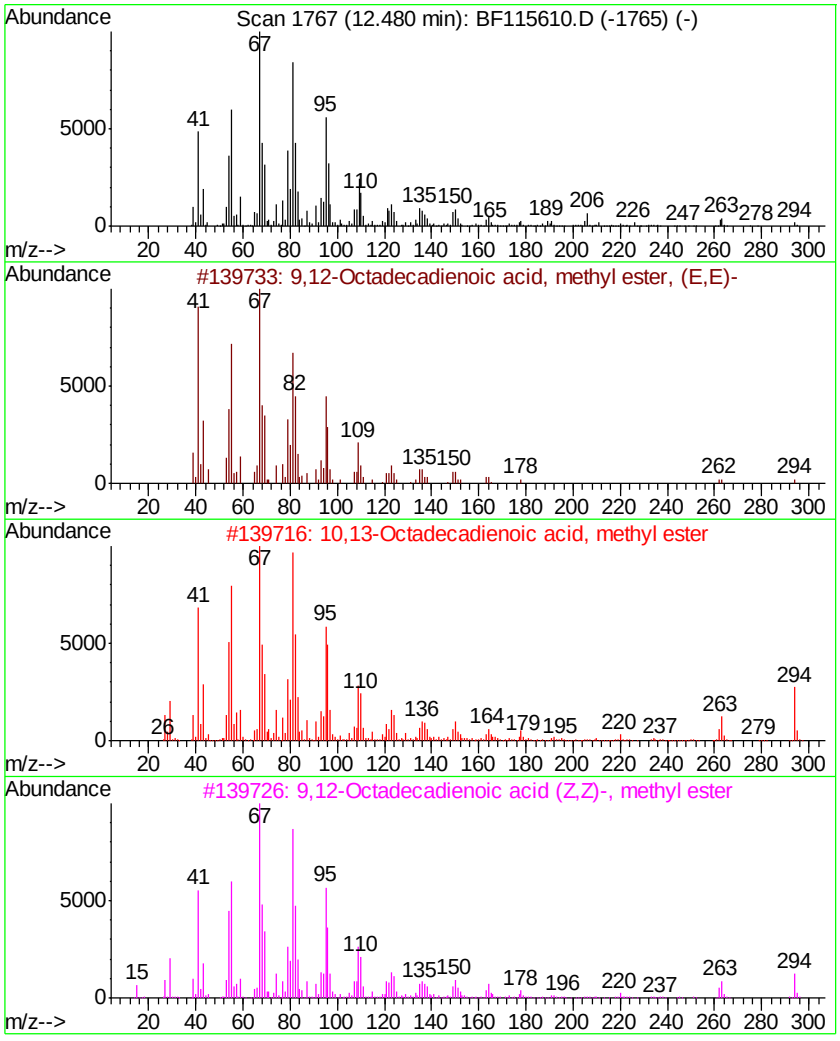
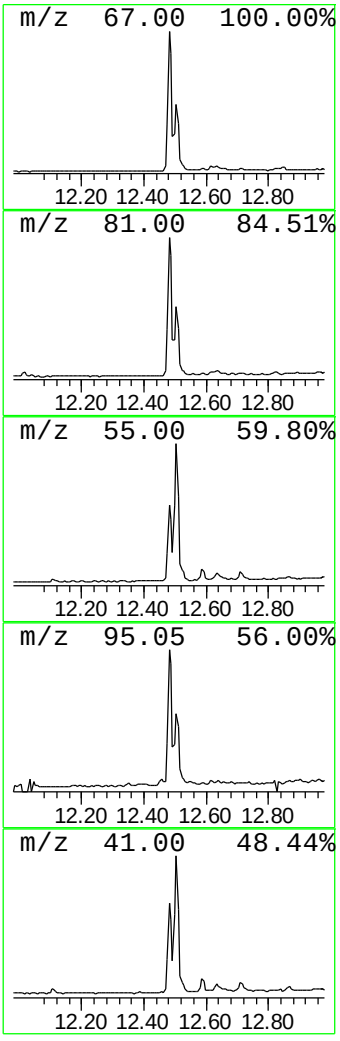
Peak Number 14 9,12-Octadecadienoic acid, ... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.48	19.69 ng	1188710	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,12-Octadecadienoic acid, methy...	294	C19H34O2	002566-97-4	99
2	10,13-Octadecadienoic acid, meth...	294	C19H34O2	056554-62-2	99
3	9,12-Octadecadienoic acid (Z,Z)-...	294	C19H34O2	000112-63-0	99
4	Methyl 10-trans,12-cis-octadecad...	294	C19H34O2	1000336-44-2	98
5	11,14-Octadecadienoic acid, meth...	294	C19H34O2	056554-61-1	98





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ClientSampleId : EO-02-071519-B

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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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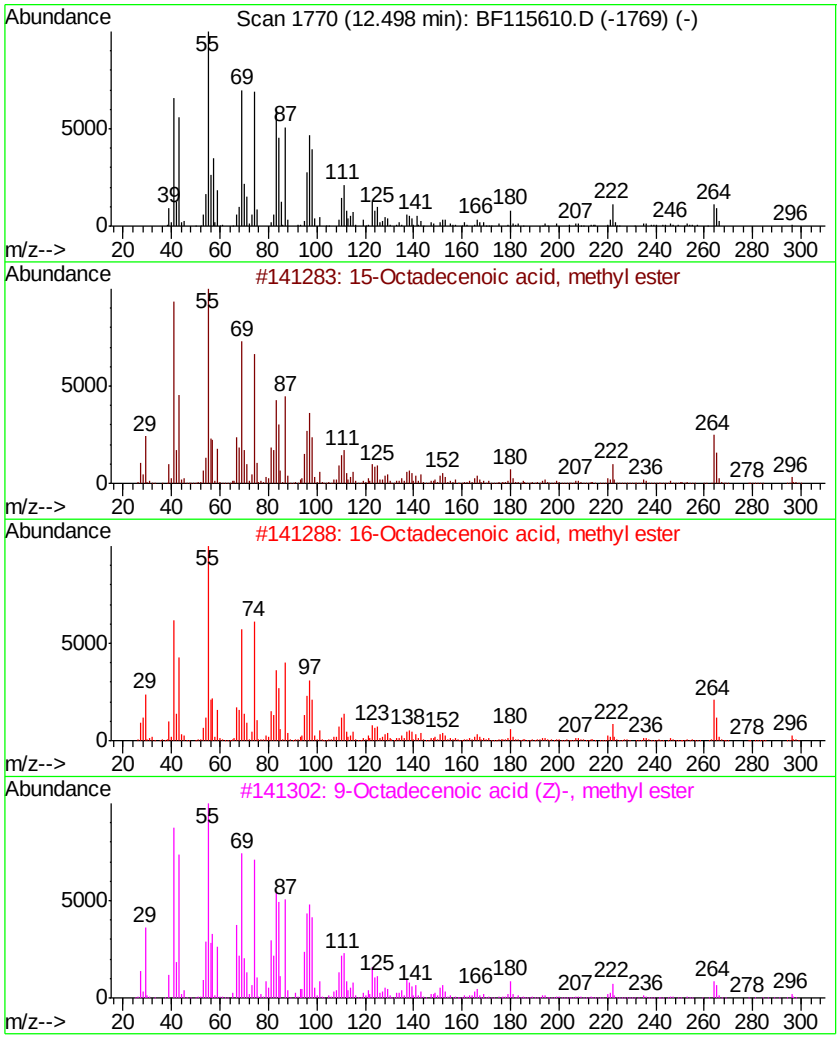
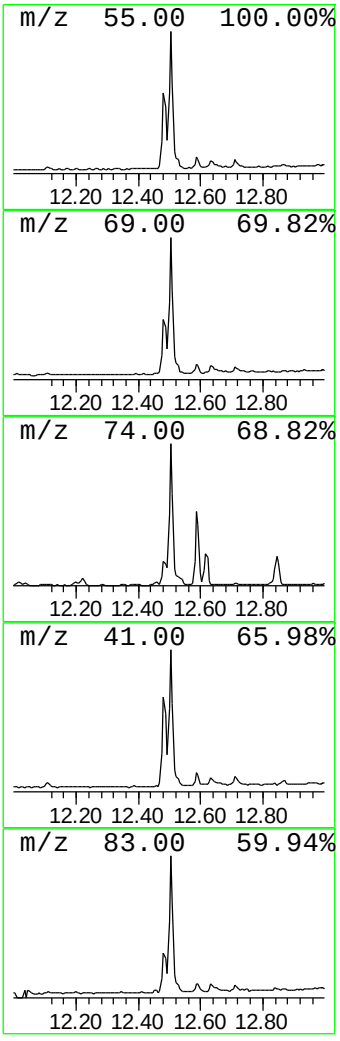
Peak Number 15 15-Octadecenoic acid, methy... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.50	25.98 ng	1568540	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	15-Octadecenoic acid, methyl ester	296	C19H36O2	004764-72-1	99
2	16-Octadecenoic acid, methyl ester	296	C19H36O2	056554-49-5	99
3	9-Octadecenoic acid (Z)-, methyl...	296	C19H36O2	000112-62-9	94
4	11-Octadecenoic acid, methyl ester	296	C19H36O2	052380-33-3	90
5	11-Octadecenoic acid, methyl est...	296	C19H36O2	001937-63-9	90





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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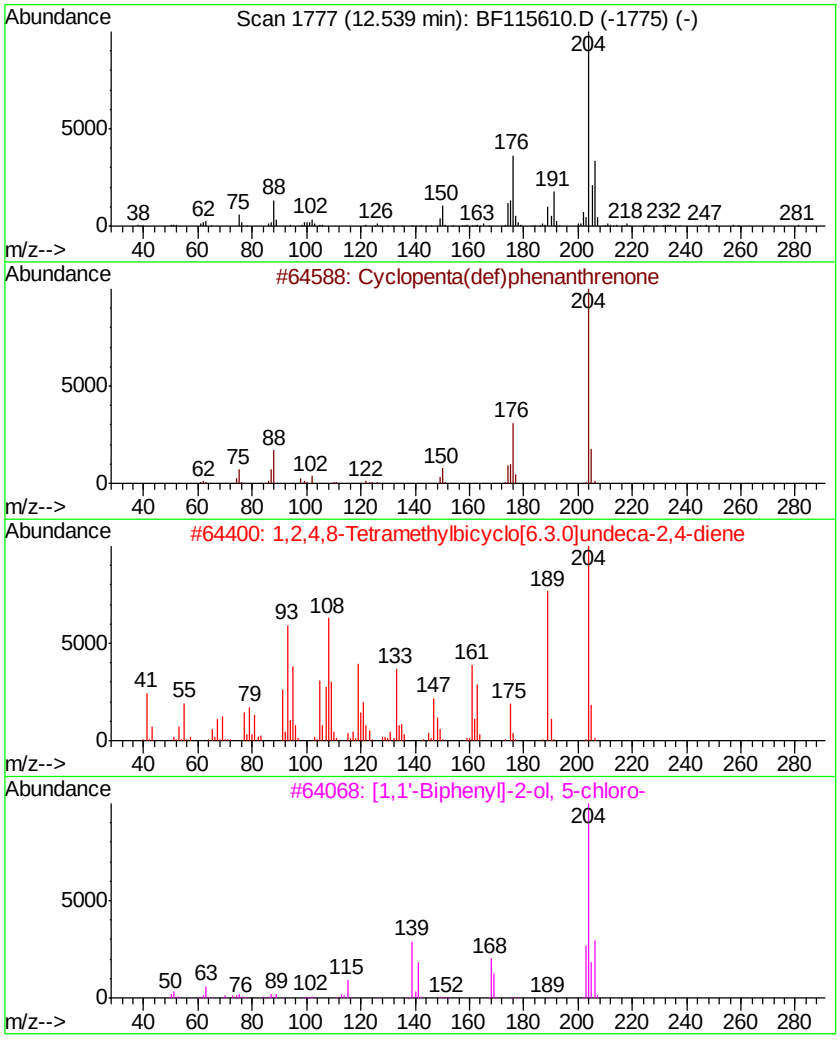
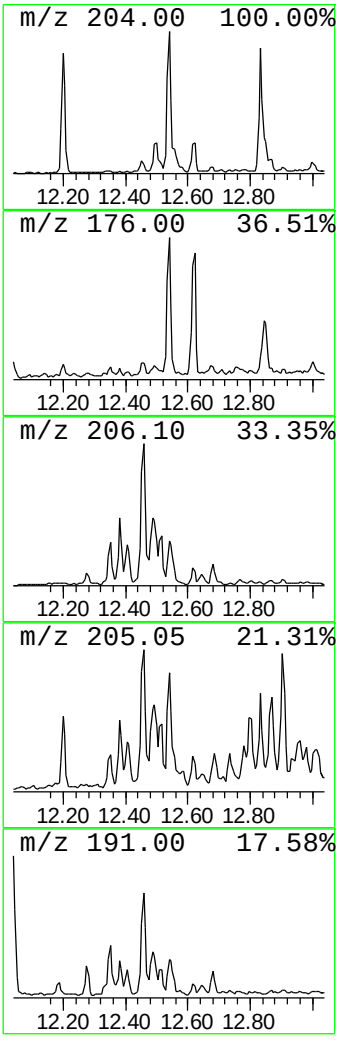
Peak Number 16 Cyclopenta(def)phenanthrenone Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.54	3.99 ng	240877	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	90
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	49
3	[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	47
4	2-Chloro-4-phenylphenol	204	C12H9ClO	000092-04-6	46
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	43





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TIC Integration Parameters: LSCINT.P

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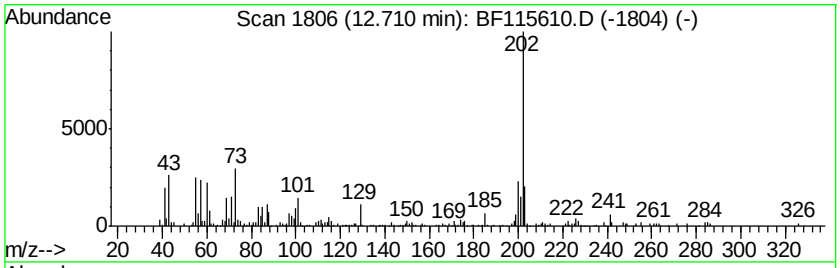
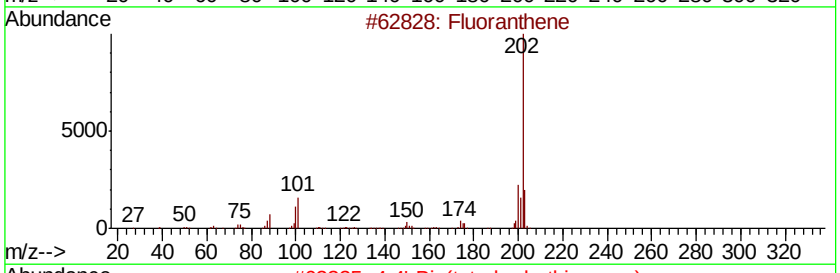
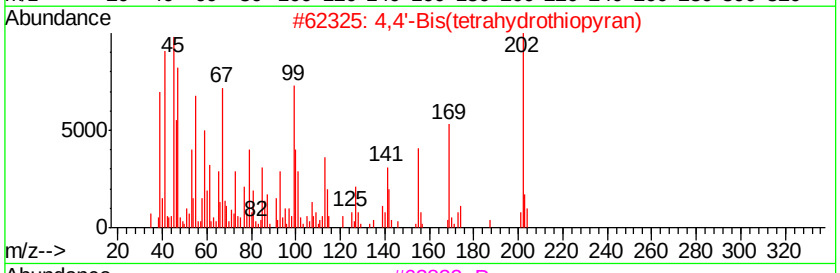
Peak Number 17 4,4'-Bis(tetrahydrothiopyran) Concentration Rank 19

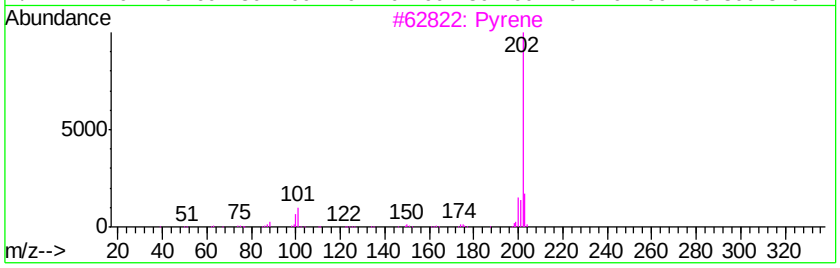
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.71	2.65 ng	159870	Phenanthrene-d10	11.40

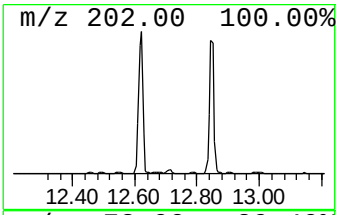
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene	202	C16H10	000206-44-0	95
2	4,4'-Bis(tetrahydrothiopyran)	202	C10H18S2	116196-83-9	86
3	Pyrene	202	C16H10	000129-00-0	70
4	Benzene, 1,1'-(1,3-butadiyne-1,4...	202	C16H10	000886-66-8	64
5	1,4-Pentadiyn-3-one, 1,5-diphenyl-	230	C17H10O	015814-30-9	50

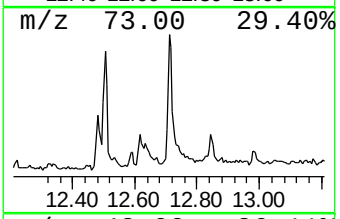


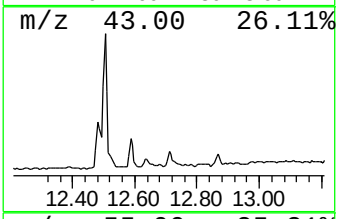


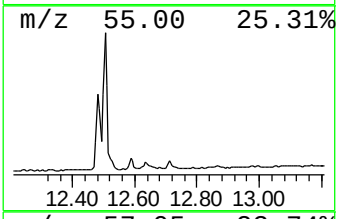


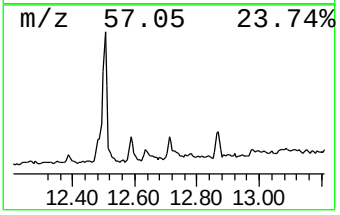












Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071619\
Data File : BF115610.D
Acq On : 16 Jul 2019 21:05
Operator : HP/JU
Sample : K3623-03 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EO-02-071519-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.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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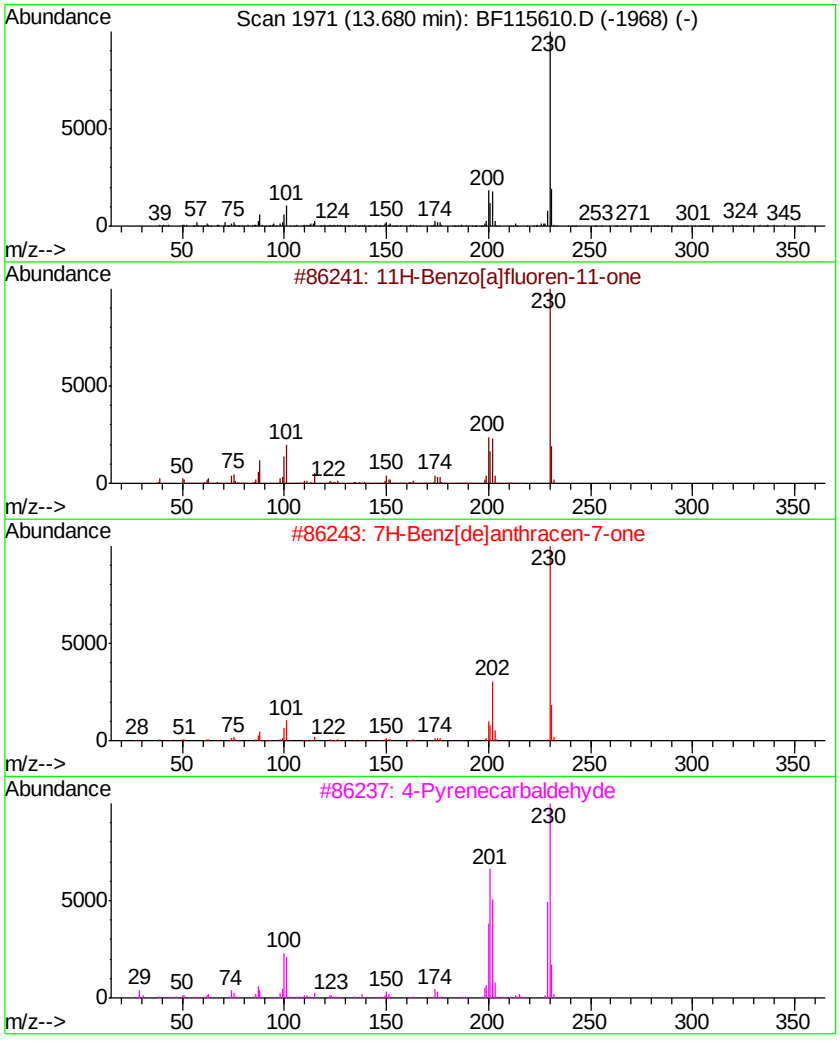
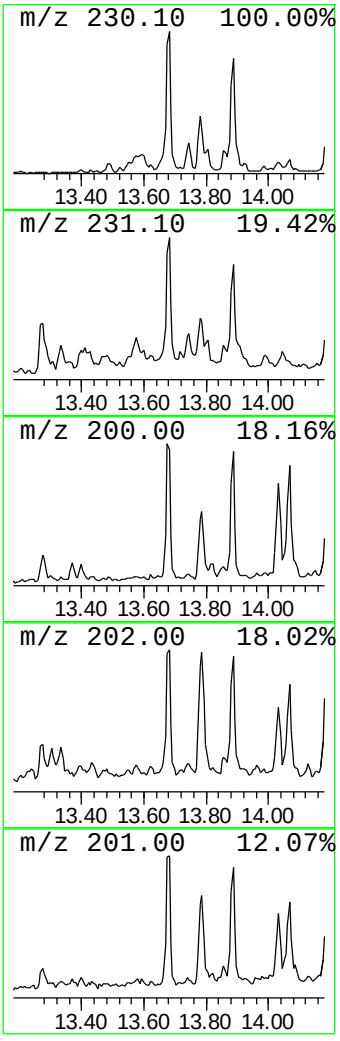
Peak Number 18 11H-Benzo[a]fluoren-11-one Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.68	3.14 ng	348294	Chrysene-d12	14.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	94
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
3	4-Pyrenecarbaldehyde	230	C17H10O	022245-51-8	83
4	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	64
5	Pyrene, 1,3-dimethyl-	230	C18H14	064401-21-4	64





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071619\
Data File : BF115610.D
Acq On : 16 Jul 2019 21:05
Operator : HP/JU
Sample : K3623-03 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EO-02-071519-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.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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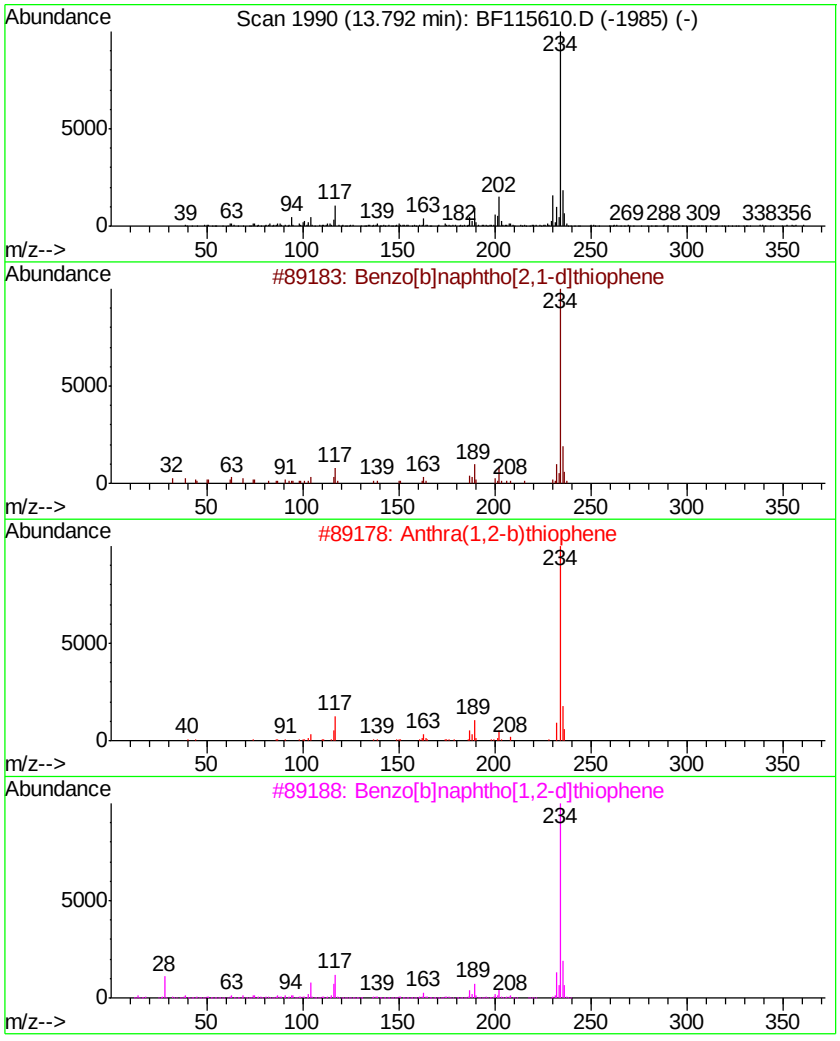
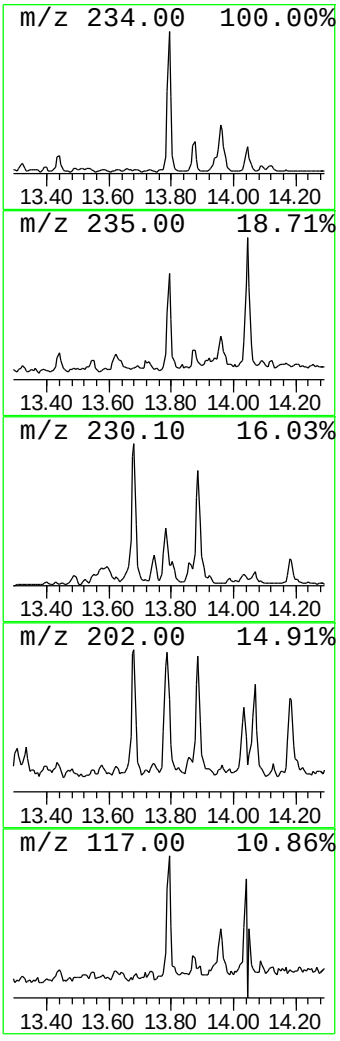
Peak Number 19 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.79	3.96 ng	439751	Chrysene-d12	14.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	94
2	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	91
3	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	90
4	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	90
5	Quinoxalino[2,3-b]quinoxaline, 5...	234	C14H10N4	000531-46-4	58





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071619\
Data File : BF115610.D
Acq On : 16 Jul 2019 21:05
Operator : HP/JU
Sample : K3623-03 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EO-02-071519-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.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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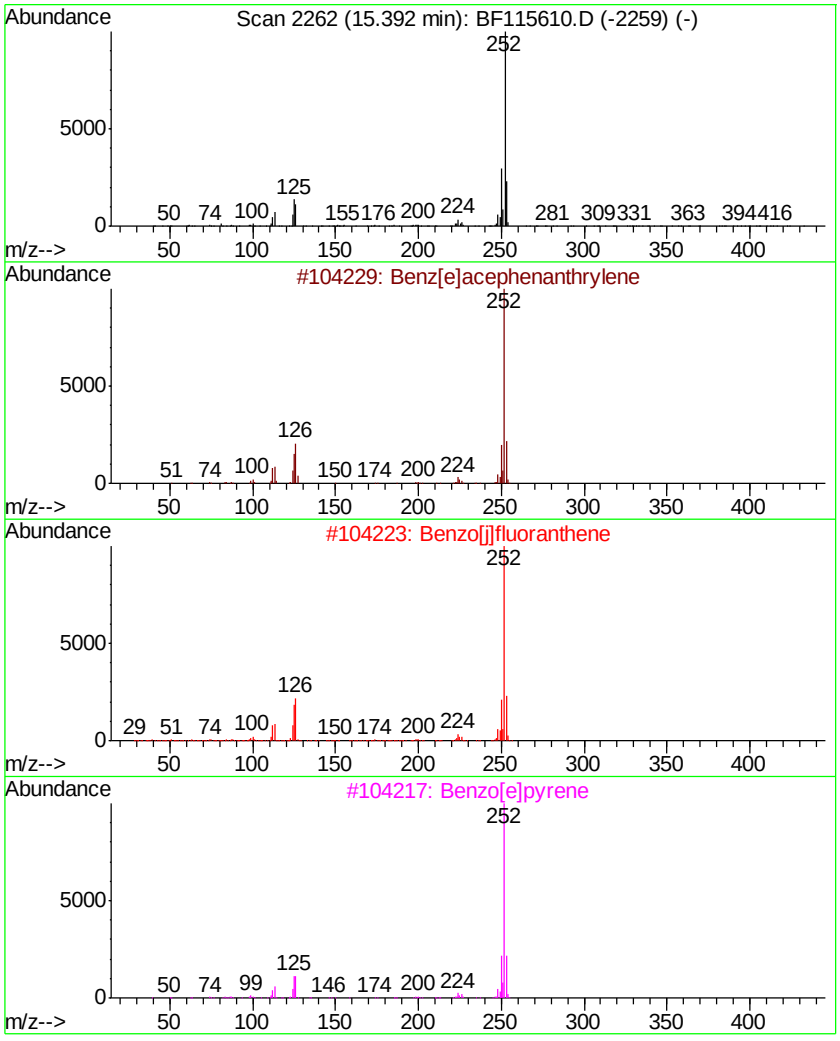
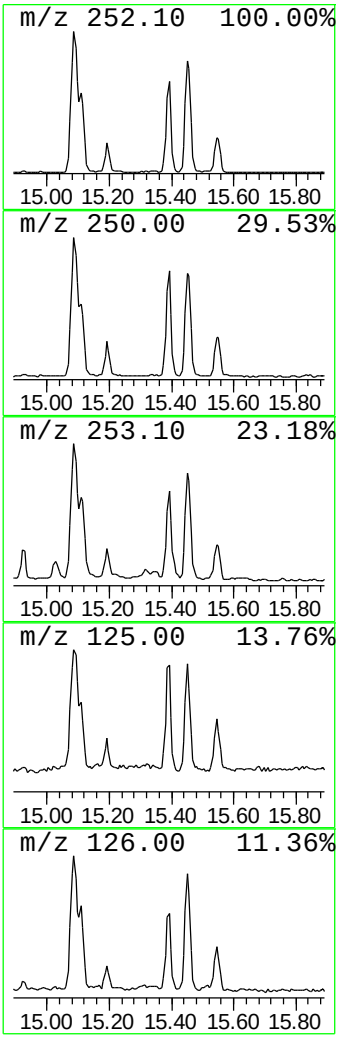
Peak Number 20 Benzo[j]fluoranthene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.39	13.93 ng	576917	Perylene-d12	15.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95
2	Benzo[j]fluoranthene	252	C20H12	000205-82-3	95
3	Benzo[e]pyrene	252	C20H12	000192-97-2	94
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Perylene	252	C20H12	000198-55-0	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF071619\
Data File : BF115610.D
Acq On : 16 Jul 2019 21:05
Operator : HP/JU
Sample : K3623-03 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EO-02-071519-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.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...	2.14	10.1	ng	469608	1	6.88	927031	20.0
1,3,5-Cycloheptat...	3.96	17.6	ng	813764	1	6.88	927031	20.0
unknown6.65	6.65	34.4	ng	1596270	1	6.88	927031	20.0
9H-Fluoren-9-one	11.20	2.4	ng	146634	4	11.40	1207360	20.0
Hexadecanoic acid...	11.80	7.3	ng	443931	4	11.40	1207360	20.0
Phenanthrene, 2-m...	11.90	4.8	ng	291612	4	11.40	1207360	20.0
Phenanthrene, 1-m...	11.93	9.6	ng	579181	4	11.40	1207360	20.0
unknown12.02	12.02	7.9	ng	474503	4	11.40	1207360	20.0
1H-Cyclopropa[l]p...	12.04	2.7	ng	165314	4	11.40	1207360	20.0
Naphthalene, 2-ph...	12.20	2.7	ng	160901	4	11.40	1207360	20.0
9,10-Anthracenedione	12.22	3.6	ng	218506	4	11.40	1207360	20.0
Phenanthrene, 2,5...	12.46	5.0	ng	301022	4	11.40	1207360	20.0
9,12-Octadecadien...	12.48	19.7	ng	1188710	4	11.40	1207360	20.0
15-Octadecenoic a...	12.50	26.0	ng	1568540	4	11.40	1207360	20.0
Cyclopenta(def)ph...	12.54	4.0	ng	240877	4	11.40	1207360	20.0
4,4'-Bis(tetrahyd...	12.71	2.6	ng	159870	4	11.40	1207360	20.0
11H-Benzo[a]fluor...	13.68	3.1	ng	348294	5	14.04	2218810	20.0
Benzo[b]naphtho[2...	13.79	4.0	ng	439751	5	14.04	2218810	20.0
Benzo[j]fluoranthene	15.39	13.9	ng	576917	6	15.52	828508	20.0