LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\
Data File : BF118048.D
Acq On : 27 Nov 2019 18:37
Operator : JU
Sample : K5959-10 10X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B2

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-BF111319.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	6.881	812	815	819	rBV	826430	737694	2.77%	0.229%
2	8.169	1031	1034	1036	rBV	999435	976031	3.67%	0.303%
3	8.198	1036	1039	1042	rVV	2817031	2509580	9.44%	0.778%
4	8.886	1153	1156	1161	rVB	1937489	1584263	5.96%	0.491%
5	8.986	1169	1173	1177	rVB	1632990	1293296	4.86%	0.401%
6	9.522	1257	1264	1267	rBV2	780465	1092286	4.11%	0.339%
7	9.592	1271	1276	1278	rBV	1408910	1349716	5.08%	0.419%
8	9.616	1278	1280	1283	rVB	886521	723831	2.72%	0.225%
9	9.798	1307	1311	1314	rVB2	1799722	1638740	6.16%	0.508%
10	9.933	1332	1334	1337	rVV	1157123	970836	3.65%	0.301%
11	9.969	1337	1340	1343	rVV	3706140	3363894	12.65%	1.043%
12	10.145	1365	1370	1373	rVV	2772744	2738178	10.30%	0.849%
13	10.251	1384	1388	1391	rBV2	645399	650375	2.45%	0.202%
14	10.486	1424	1428	1433	rVB2	3167940	3201378	12.04%	0.993%
15	10.551	1437	1439	1441	rVV	755704	660572	2.48%	0.205%
16	10.645	1452	1455	1459	rVB	1519725	1354997	5.10%	0.420%
17	10.728	1465	1469	1473	rVV	1682451	1929176	7.25%	0.598%
18	11.039	1515	1522	1524	rVV4	1021114	1720890	6.47%	0.534%
19	11.063	1524	1526	1529	rVV2	598030	630206	2.37%	0.195%
20	11.169	1538	1544	1545	rVV2	941538	1193677	4.49%	0.370%
21	11.186	1545	1547	1550	rVV	985937	1126699	4.24%	0.349%
22	11.239	1553	1556	1559	rVV	1950486	1901287	7.15%	0.590%
23	11.292	1559	1565	1568	rVV3	1304458	2071383	7.79%	0.643%
24	11.328	1568	1571	1577	rVB	2182220	2143363	8.06%	0.665%
25	11.486	1585	1598	1600	rBV	12063940	23645719	88.92%	7.335%
26	11.528	1600	1605	1607	rVV	6515207	6626173	24.92%	2.055%
27	11.663	1622	1628	1631	rBV2	2052741	2762330	10.39%	0.857%
28	11.727	1636	1639	1643	rVV2	1015647	931786	3.50%	0.289%
29	11.769	1643	1646	1650	rVV5	813714	934000	3.51%	0.290%
30	11.945	1670	1676	1678	rBV	3609423	4297063	16.16%	1.333%
31	11.975	1678	1681	1684	rVB	5453775	5085568	19.12%	1.577%
32	12.022	1684	1689	1692	rBV	2493432	2513450	9.45%	0.780%
33	12.057	1692	1695	1698	rBV	4901318	6390061	24.03%	1.982%
34	12.080	1698	1699	1702	rVB	3599928	1821385	6.85%	0.565%

LSC Area Percent Report

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Acq On : 27 Nov 2019 18:37
Operator : JU
Sample : K5959-10 10X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B2

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-BF111319.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.233	1722	1725	1728	rVB	2723560	2485505	9.35%	0.771%
36	12.275	1728	1732	1735	rVB	1343216	1480754	5.57%	0.459%
37	12.380	1745	1750	1753	rBV	1241808	1351422	5.08%	0.419%
38	12.416	1753	1756	1758	rVB	1056627	779914	2.93%	0.242%
39	12.439	1758	1760	1764	rVB2	976165	877757	3.30%	0.272%
40	12.492	1764	1769	1772	rBV	2190888	2857224	10.74%	0.886%
41	12.533	1772	1776	1782	rVB3	1224570	2069270	7.78%	0.642%
42	12.604	1782	1788	1793	rVB2	1799977	3160767	11.89%	0.980%
43	12.692	1793	1803	1806	rBV	11615686	26592580	100.00%	8.249%
44	12.727	1806	1809	1812	rVB	873542	749008	2.82%	0.232%
45	12.757	1812	1814	1819	rVB2	793553	850586	3.20%	0.264%
46	12.816	1819	1824	1827	rBV	2190111	2303330	8.66%	0.714%
47	12.910	1834	1840	1841	rBV2	10614948	16505988	62.07%	5.120%
48	12.945	1845	1846	1850	rVB2	2611274	1696417	6.38%	0.526%
49	13.016	1850	1858	1862	rBV	2451562	3152145	11.85%	0.978%
50	13.057	1862	1865	1868	rVB	2300695	2194293	8.25%	0.681%
51	13.116	1868	1875	1878	rBV2	2717925	4856518	18.26%	1.506%
52	13.198	1885	1889	1891	rBV4	2157932	2880709	10.83%	0.894%
53	13.227	1891	1894	1896	rVB	3275319	3376996	12.70%	1.047%
54	13.251	1896	1898	1901	rBV	667209	742875	2.79%	0.230%
55	13.286	1901	1904	1907	rBV	1194075	1055981	3.97%	0.328%
56	13.327	1907	1911	1914	rBV2	3411702	4446831	16.72%	1.379%
57	13.380	1918	1920	1923	rVB	747013	671424	2.52%	0.208%
58	13.422	1923	1927	1930	rBV	2226776	2326284	8.75%	0.722%
59	13.457	1930	1933	1935	rVB	2661295	2265329	8.52%	0.703%
60	13.598	1954	1957	1959	rBV3	713441	901956	3.39%	0.280%
61	13.645	1963	1965	1967	rVV2	1090025	1040787	3.91%	0.323%
62	13.739	1974	1981	1984	rVV	3605811	4232101	15.91%	1.313%
63	13.845	1994	1999	2002	rBV2	2875120	4234860	15.92%	1.314%
64	13.874	2002	2004	2006	rVV	3073817	2846663	10.70%	0.883%
65	13.904	2006	2009	2015	rVV3	2642692	4072685	15.32%	1.263%
66	13.963	2015	2019	2023	rVB	2736125	3381636	12.72%	1.049%
67	14.016	2023	2028	2032	rBV	712853	1120408	4.21%	0.348%
68	14.110	2036	2044	2046	rBV2	8203506	17315205	65.11%	5.371%
69	14.151	2047	2051	2056	rVB	8861447	14418312	54.22%	4.472%
70	14.216	2060	2062	2065	rBV	1492445	1308123	4.92%	0.406%
71	14.251	2065	2068	2070	rBV3	706374	846409	3.18%	0.263%

LSC Area Percent Report

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Sample : K5959-10 10X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B2

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-BF111319.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.292	2073	2075	2077	rVB	1349233	1125924	4.23%	0.349%
73	14.327	2077	2081	2084	rVB2	2076907	2401385	9.03%	0.745%
74	14.363	2084	2087	2089	rVB3	942048	801580	3.01%	0.249%
75	14.421	2094	2097	2099	rBV	814201	755125	2.84%	0.234%
76	14.451	2099	2102	2104	rBV	1294683	1246768	4.69%	0.387%
77	14.492	2104	2109	2112	rBV	3228425	3401636	12.79%	1.055%
78	14.527	2112	2115	2117	rVB	1716306	1477468	5.56%	0.458%
79	14.568	2118	2122	2124	rBV3	808541	1026999	3.86%	0.319%
80	14.621	2127	2131	2132	rBV	1536894	1581928	5.95%	0.491%
81	14.680	2137	2141	2148	rVV3	1452505	2269565	8.53%	0.704%
82	14.810	2160	2163	2171	rBV5	934417	1834170	6.90%	0.569%
83	14.916	2177	2181	2185	rVB3	542146	851871	3.20%	0.264%
84	15.004	2192	2196	2199	rBV2	1485573	1857230	6.98%	0.576%
85	15.204	2219	2230	2232	rVV2	6876310	18051684	67.88%	5.599%
86	15.251	2236	2238	2241	rVV2	768229	755931	2.84%	0.234%
87	15.292	2241	2245	2248	rVB	2127637	2244462	8.44%	0.696%
88	15.374	2255	2259	2260	rBV2	756551	921259	3.46%	0.286%
89	15.510	2274	2282	2287	rBV	4046177	7668540	28.84%	2.379%
90	15.586	2287	2295	2299	rVV	5597972	10504554	39.50%	3.258%
91	15.668	2304	2309	2314	rVB2	2574086	3895832	14.65%	1.208%
92	15.833	2334	2337	2344	rVB3	520778	992676	3.73%	0.308%
93	15.986	2361	2363	2369	rVB2	442978	677950	2.55%	0.210%
94	16.068	2372	2377	2381	rBV3	415719	767477	2.89%	0.238%
95	16.945	2521	2526	2530	rBV2	392640	801785	3.02%	0.249%
96	17.180	2554	2566	2570	rVB	2278468	5987655	22.52%	1.857%
97	17.333	2585	2592	2597	rBV	625900	1339495	5.04%	0.415%
98	17.398	2597	2603	2609	rBV2	515811	1058144	3.98%	0.328%
99	17.645	2634	2645	2653	rVB	1658749	4589427	17.26%	1.424%
100	17.868	2678	2683	2696	rVB2	584847	1482680	5.58%	0.460%

Sum of corrected areas: 322390135

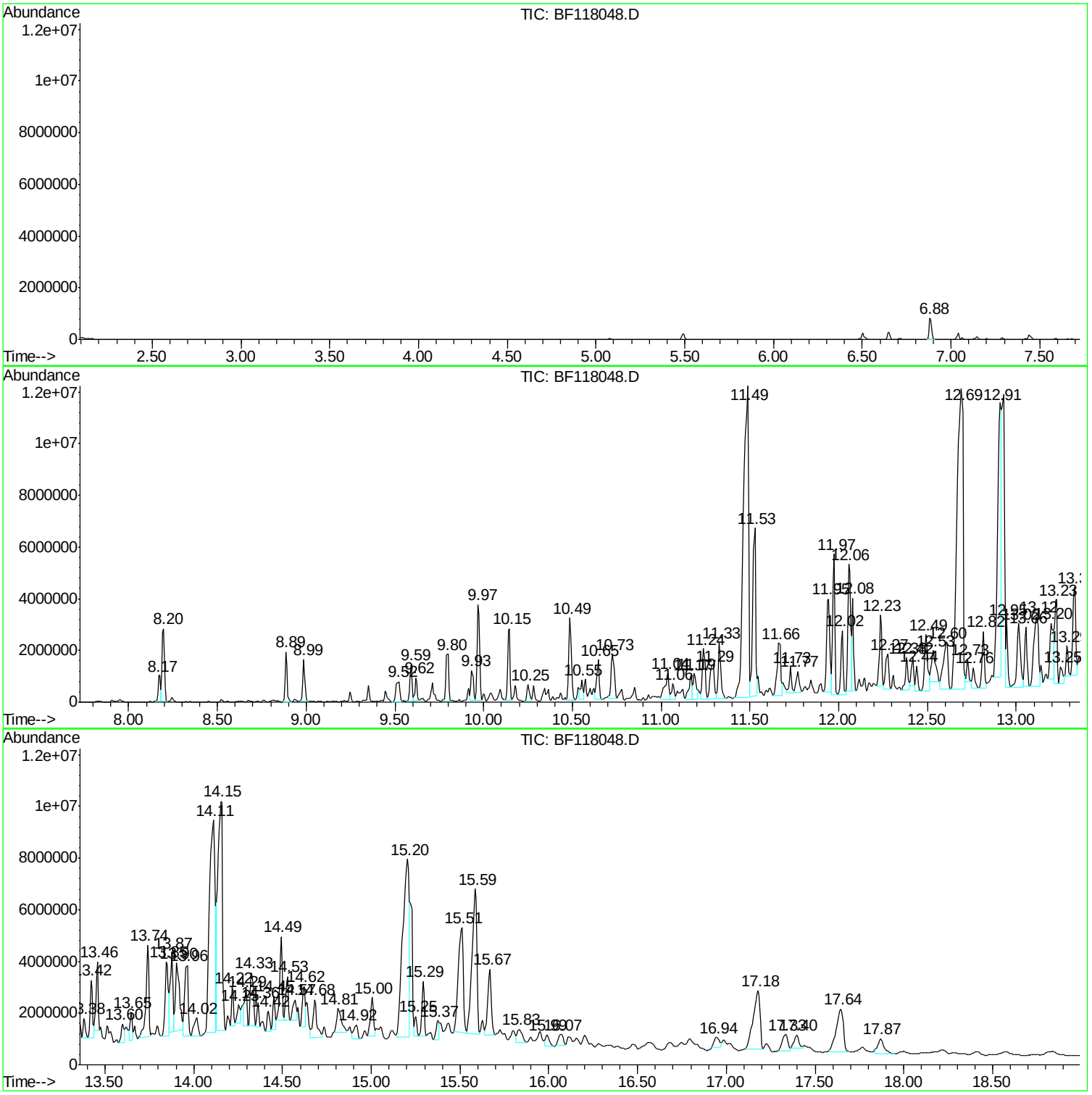
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\
Data File : BF118048.D
Acq On : 27 Nov 2019 18:37
Operator : JU
Sample : K5959-10 10X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WS-112019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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\BF112719\
Data File : BF118048.D
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Misc :
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Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

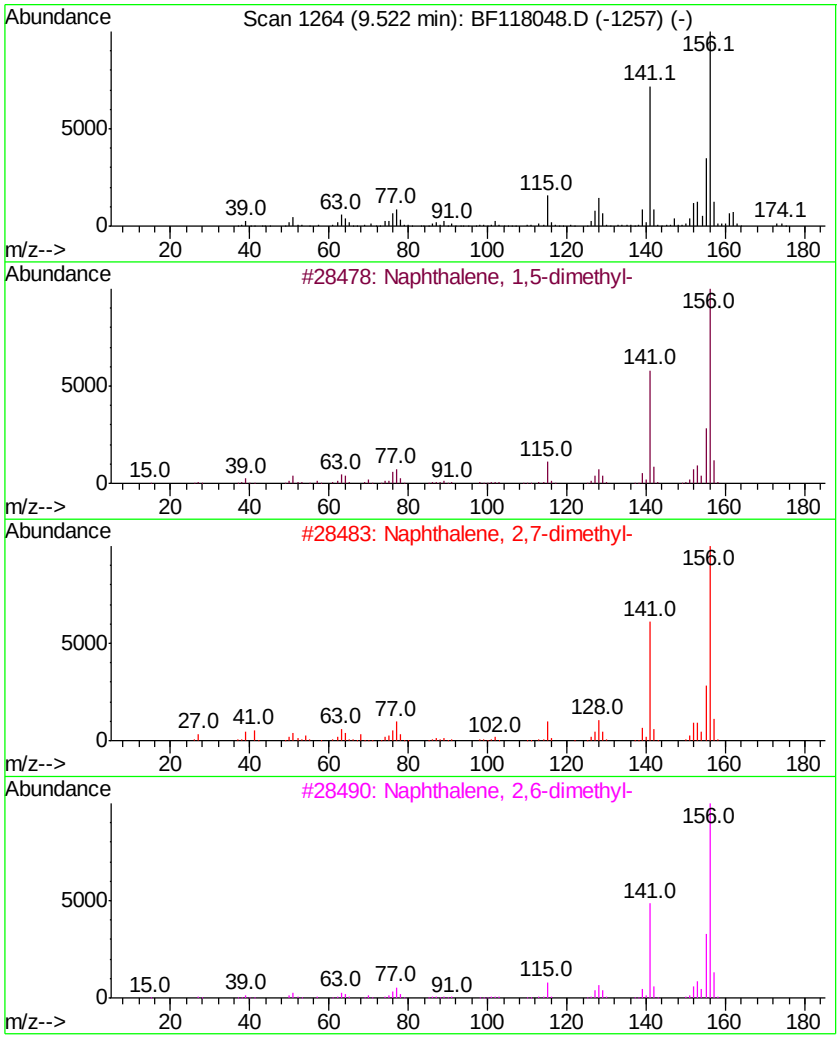
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

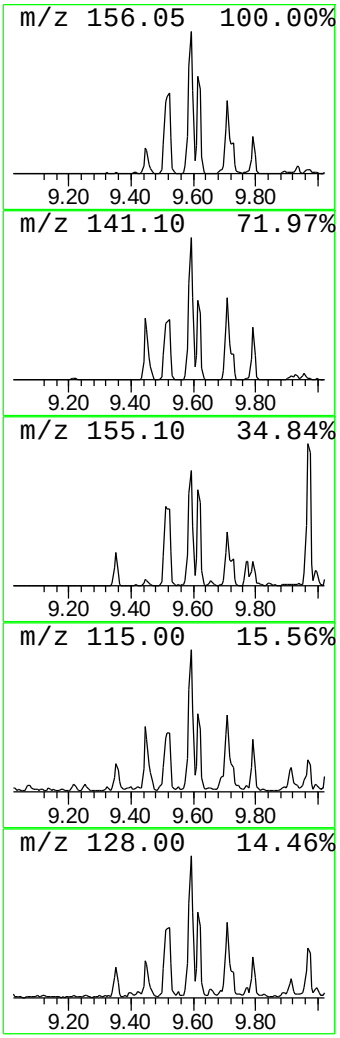
****

Peak Number 1 Naphthalene, 1,5-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.52	22.50 ng	1092290	Acenaphthene-d10	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
2	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
3	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
5	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96





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Operator : JU
Sample : K5959-10 10X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

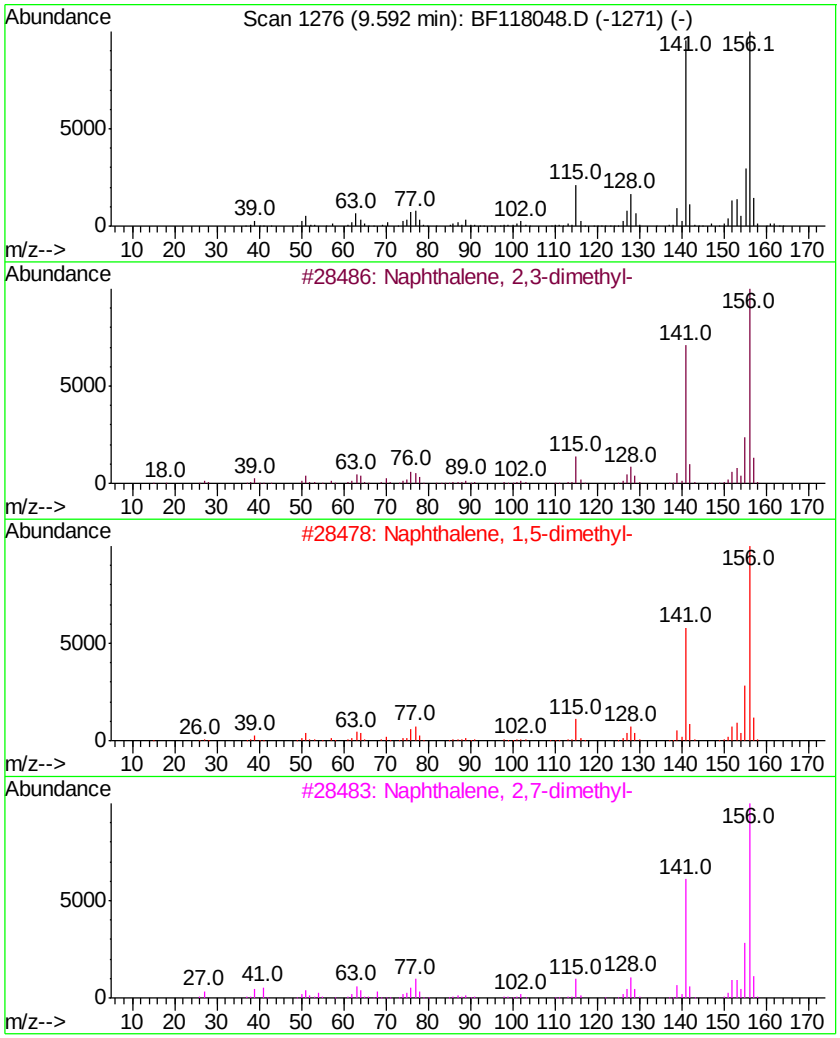
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

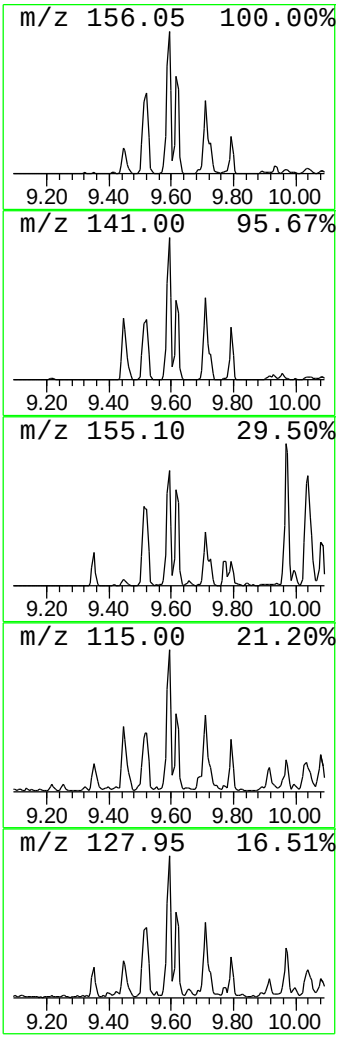
****

Peak Number 2 Naphthalene, 2,3-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.59	27.81 ng	1349720	Acenaphthene-d10	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
3	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
4	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
5	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\
Data File : BF118048.D
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Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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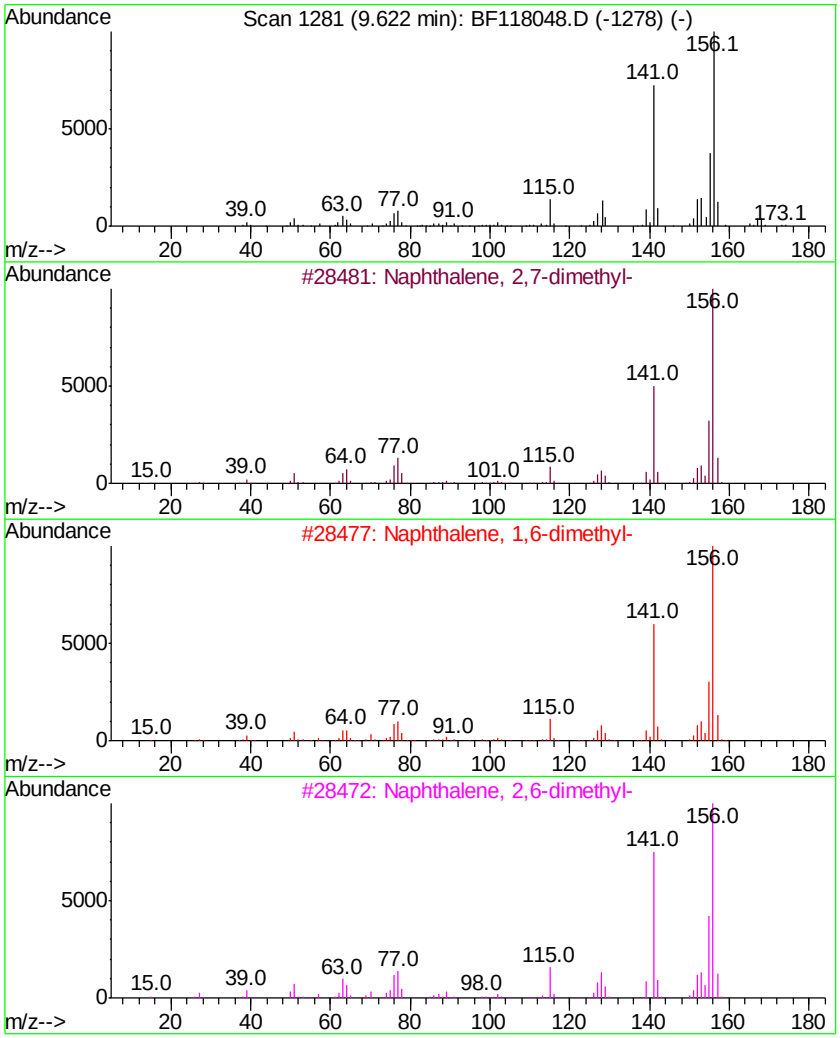
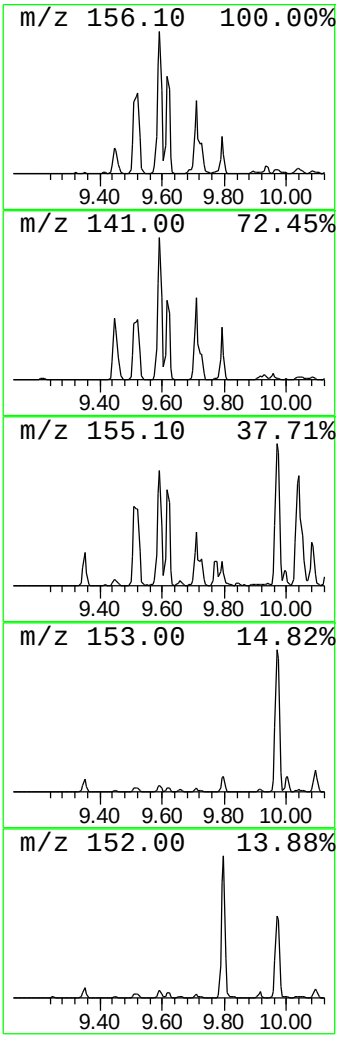
Peak Number 3 Naphthalene, 2,7-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.62	14.91 ng	723831	Acenaphthene-d10	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
3	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
5	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97





Library Search Compound Report

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Data File : BF118048.D
Acq On : 27 Nov 2019 18:37
Operator : JU
Sample : K5959-10 10X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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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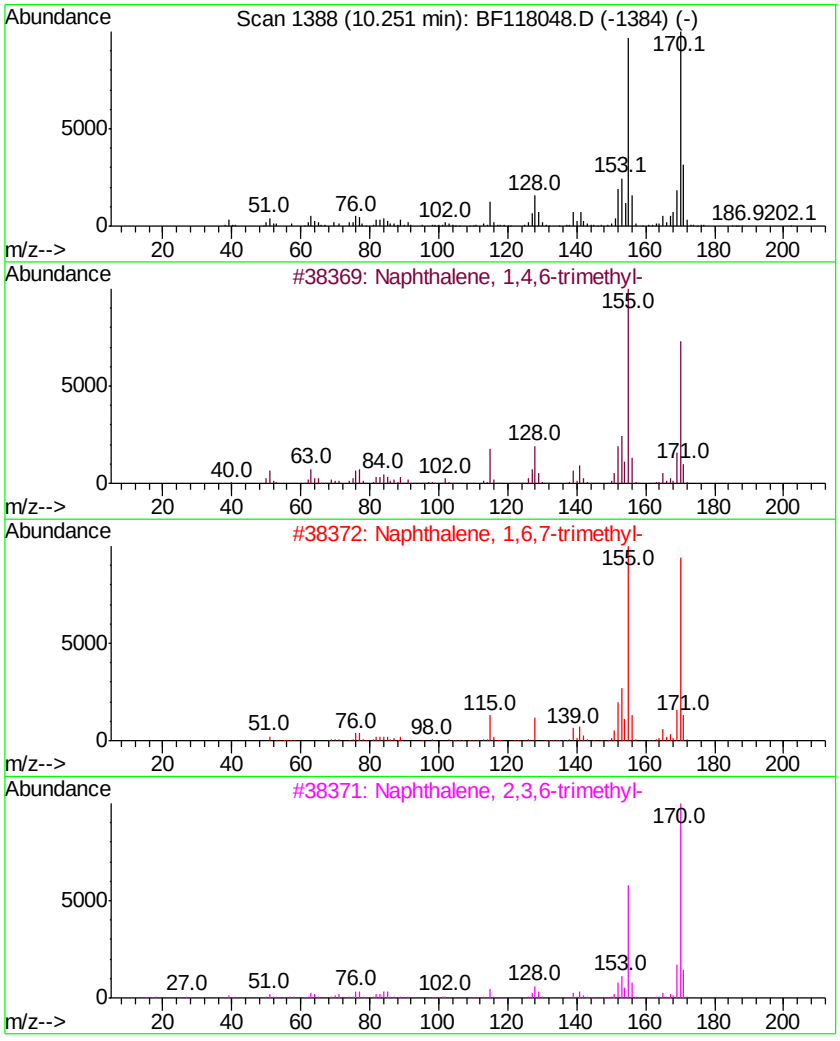
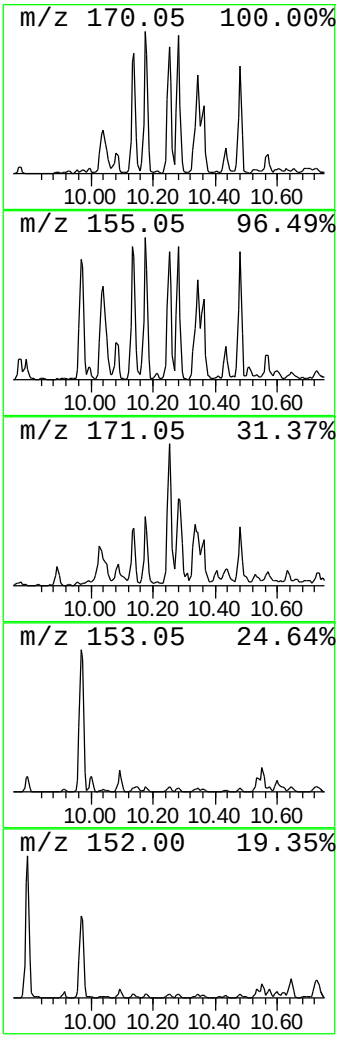
Peak Number 4 Naphthalene, 1,4,6-trimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.25	13.40 ng	650375	Acenaphthene-d10	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	97
2	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	97
3	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	94
4	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	93
5	4,6,8-Trimethylazulene	170	C13H14	000941-81-1	90





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\
Data File : BF118048.D
Acq On : 27 Nov 2019 18:37
Operator : JU
Sample : K5959-10 10X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

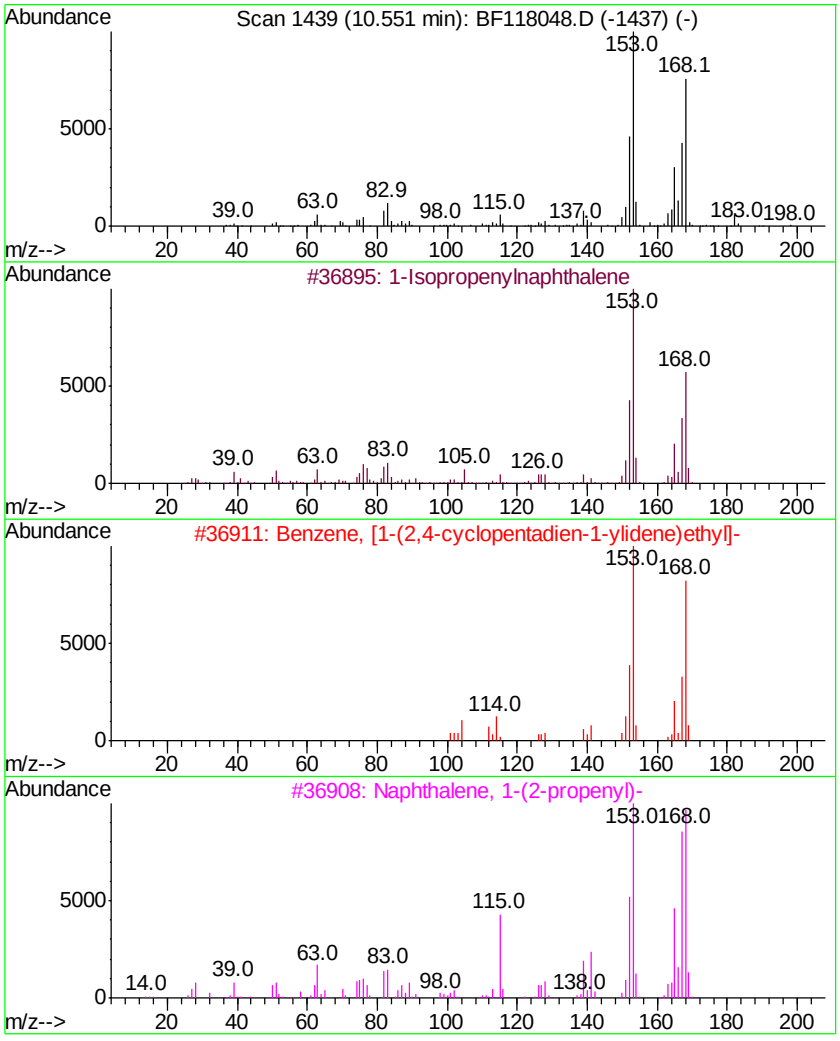
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

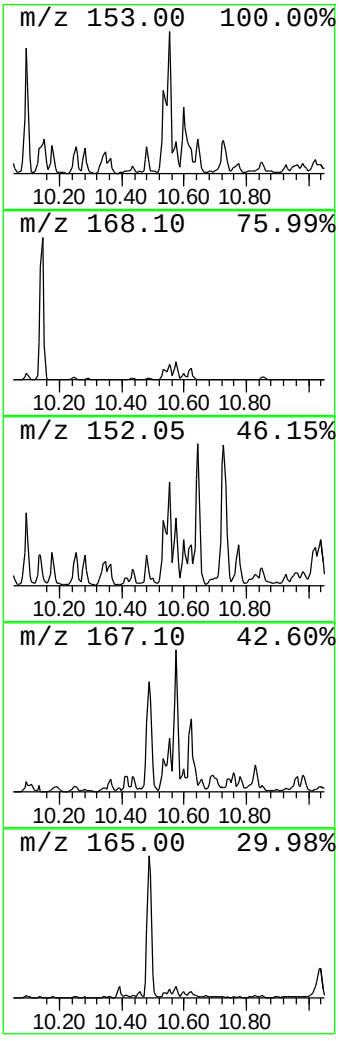
****

Peak Number 5 1-Isopropenylnaphthalene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.55	13.61 ng	660572	Acenaphthene-d10	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	90
2	Benzene, [1-(2,4-cyclopentadien-...	168	C13H12	002320-32-3	72
3	Naphthalene, 1-(2-propenyl)-	168	C13H12	002489-86-3	68
4	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	43
5	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	38





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Data File : BF118048.D
Acq On : 27 Nov 2019 18:37
Operator : JU
Sample : K5959-10 10X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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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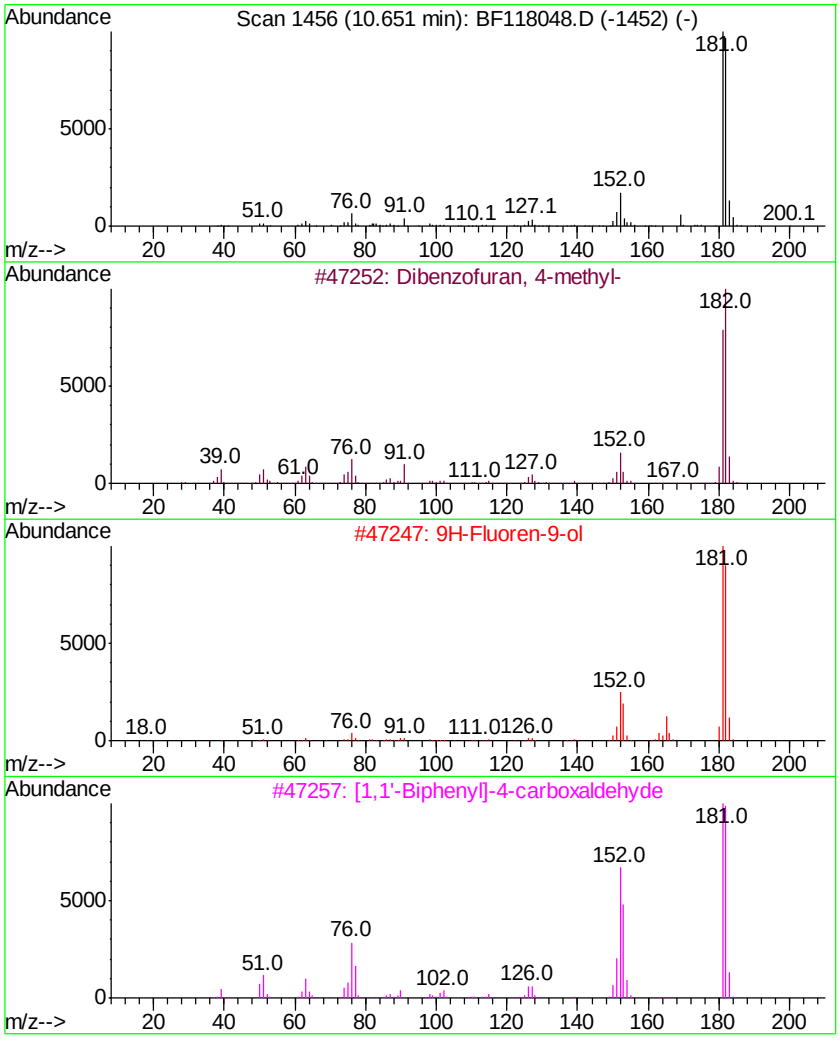
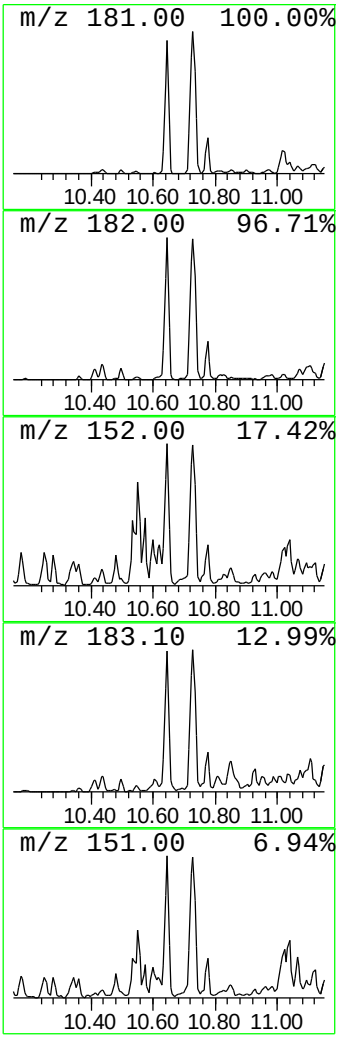
Peak Number 6 9H-Fluoren-9-ol Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.65	27.91 ng	1355000	Acenaphthene-d10	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	87
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	78
4	Pyrido[2,3-b]indole, 6-methyl-	182	C12H10N2	108349-67-3	64
5	2-Hydroxyfluorene	182	C13H10O	002443-58-5	59





Library Search Compound Report

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Operator : JU
Sample : K5959-10 10X
Misc :
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Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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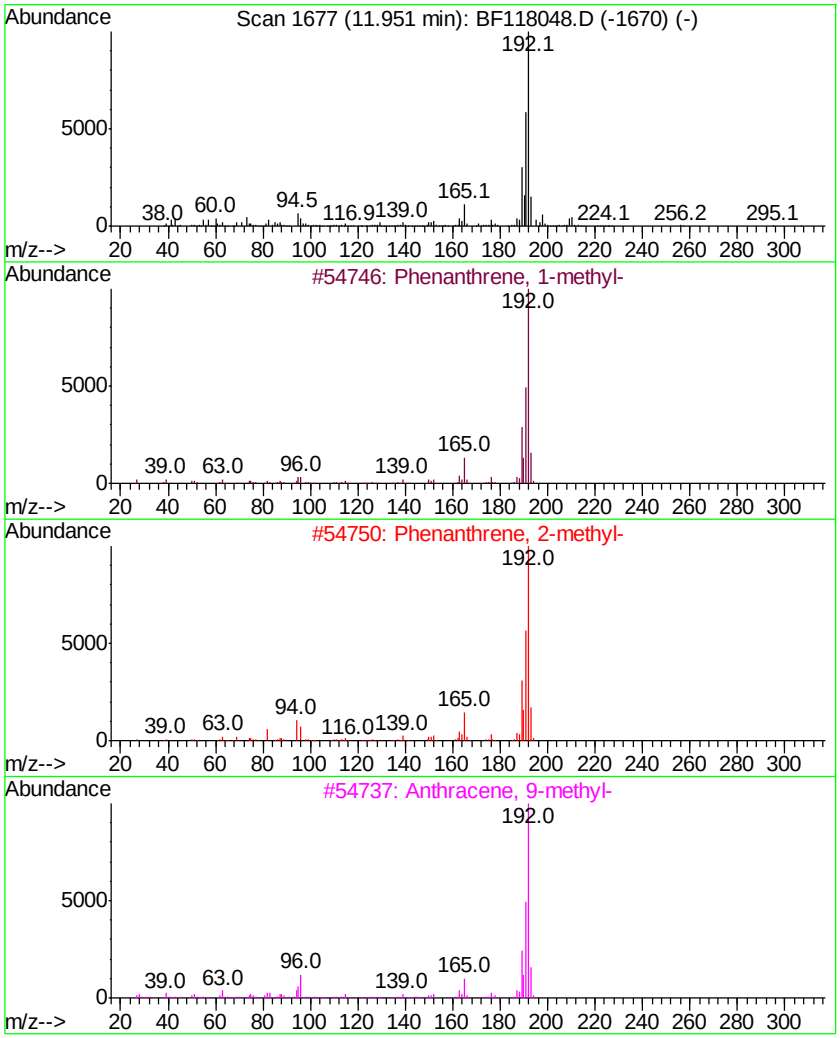
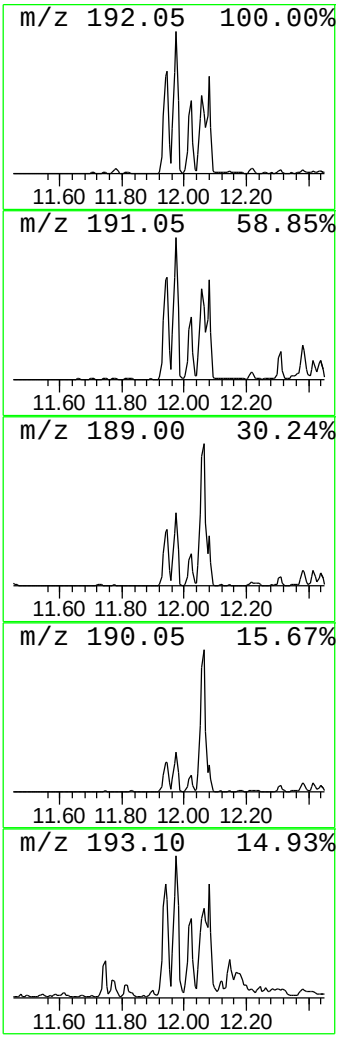
Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.95	3.63 ng	4297060	Phenanthrene-d10	11.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93





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Operator : JU
Sample : K5959-10 10X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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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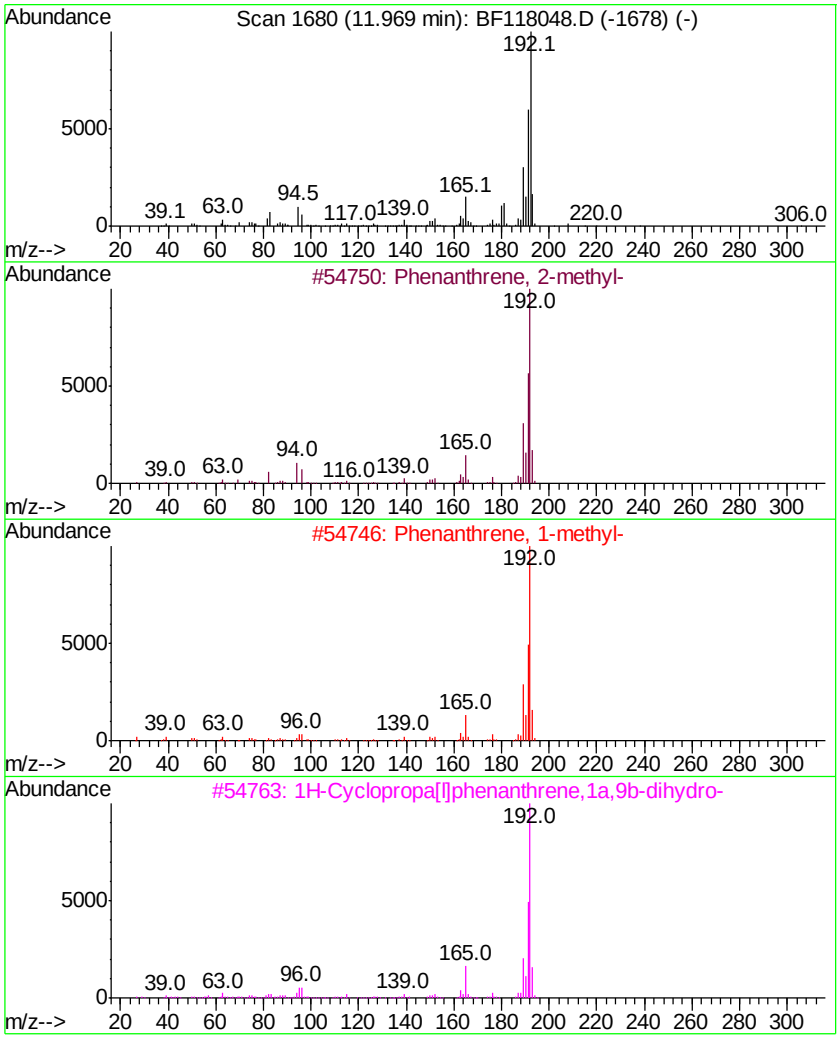
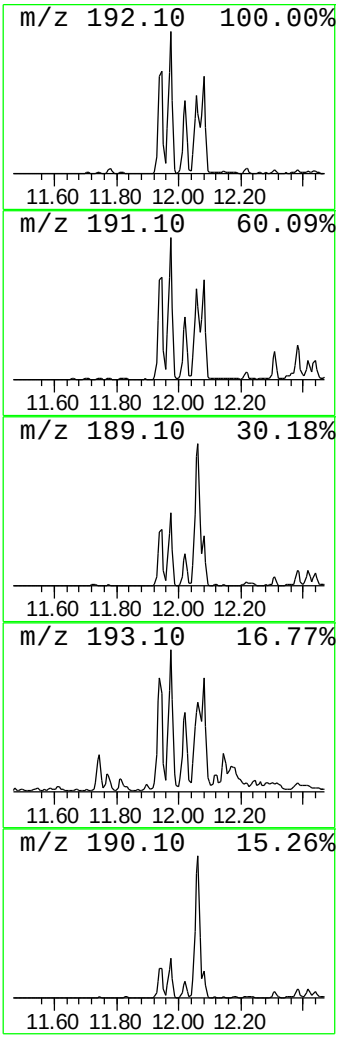
Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	4.30 ng	5085570	Phenanthrene-d10	11.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95





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Operator : JU
Sample : K5959-10 10X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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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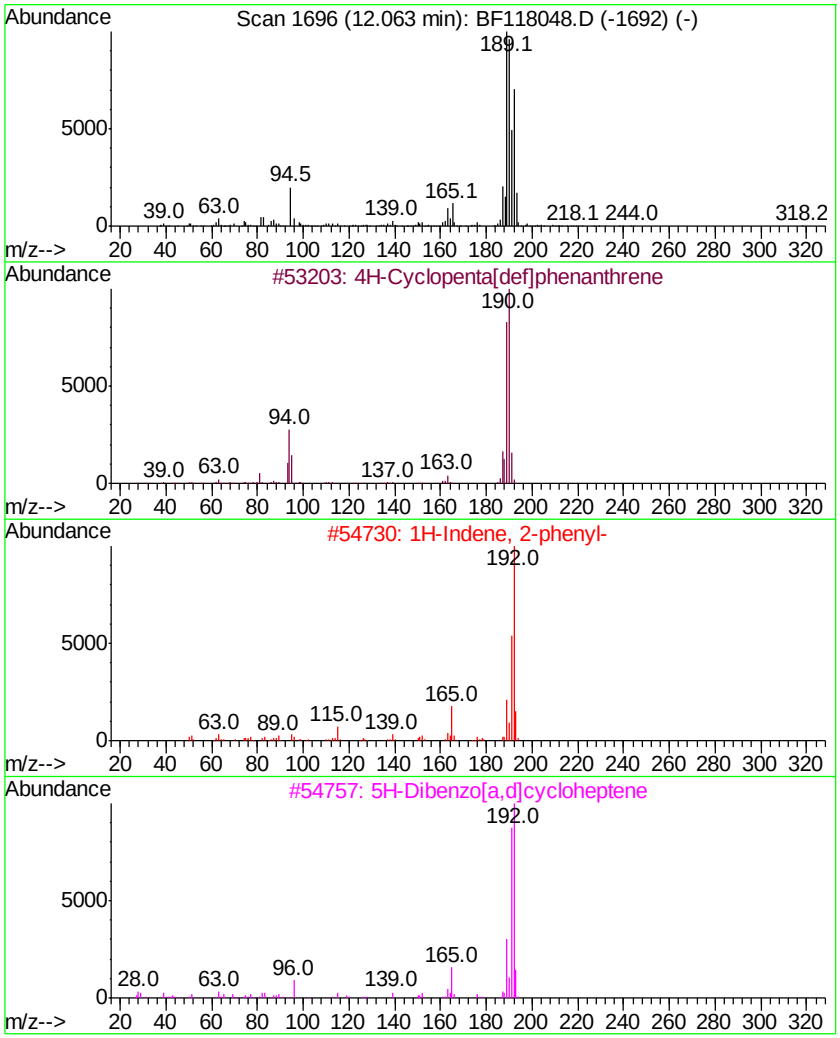
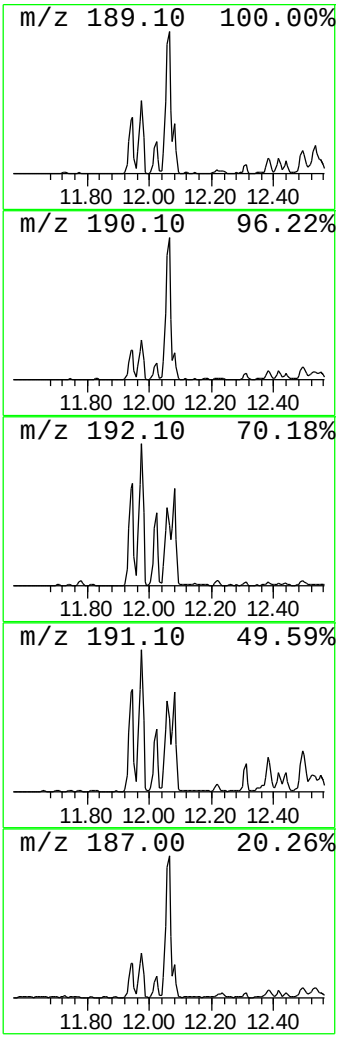
Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.06	5.40 ng	6390060	Phenanthrene-d10	11.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	46
3	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	46
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	46
5	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	46





Library Search Compound Report

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Acq On : 27 Nov 2019 18:37
Operator : JU
Sample : K5959-10 10X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B2

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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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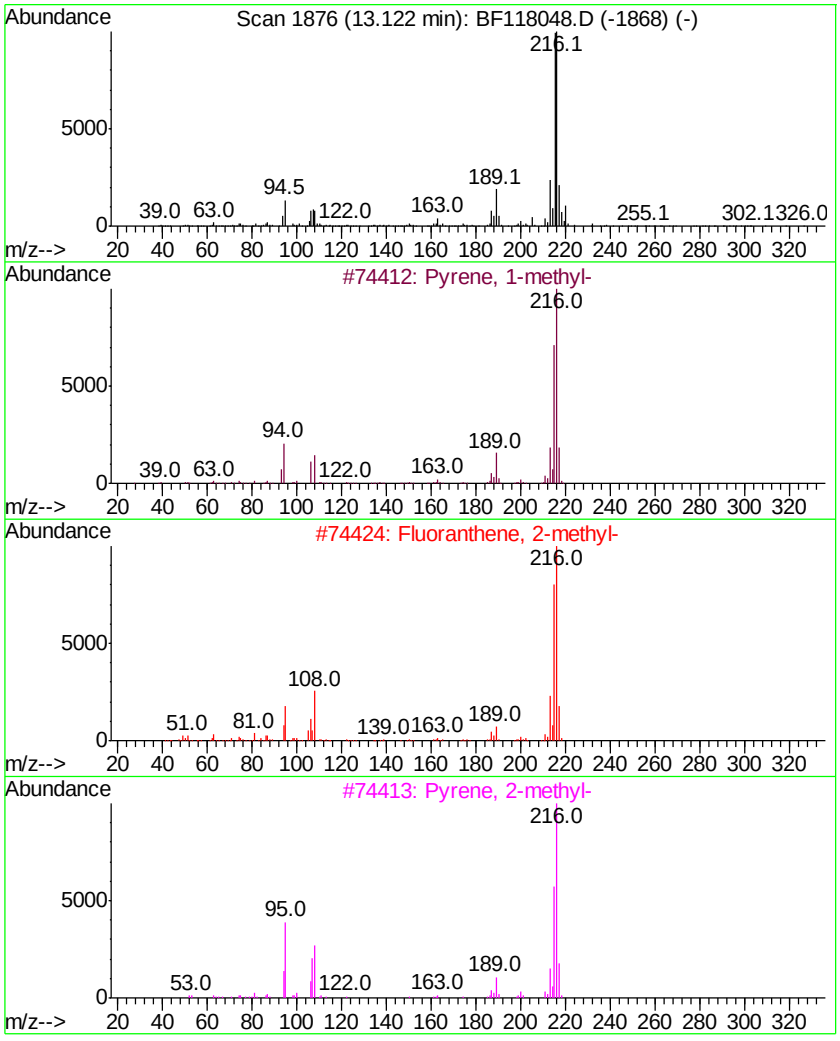
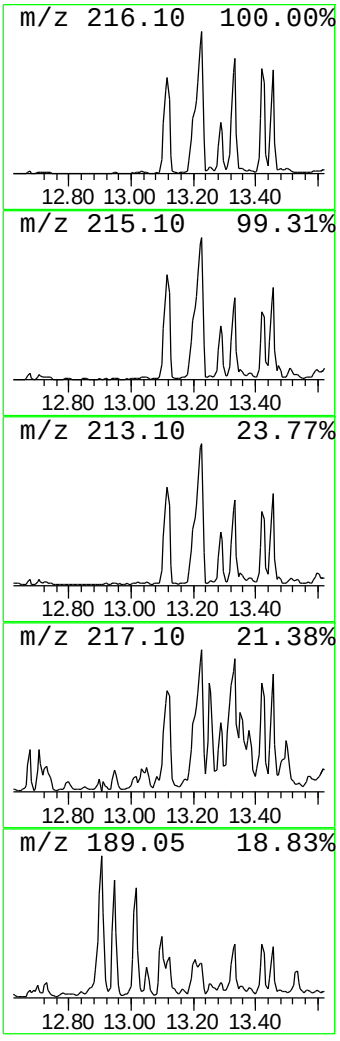
Peak Number 10 Pyrene, 1-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.12	5.61 ng	4856520	Chrysene-d12	14.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	97
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	92
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87





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Sample : K5959-10 10X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B2

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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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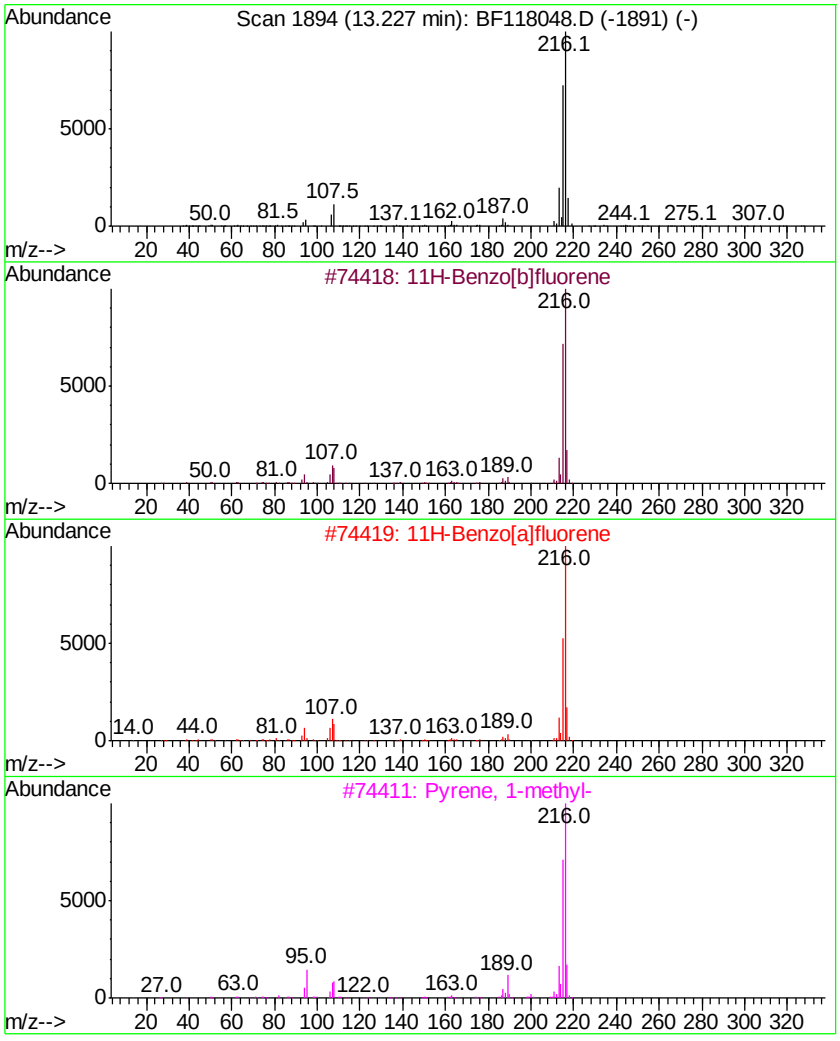
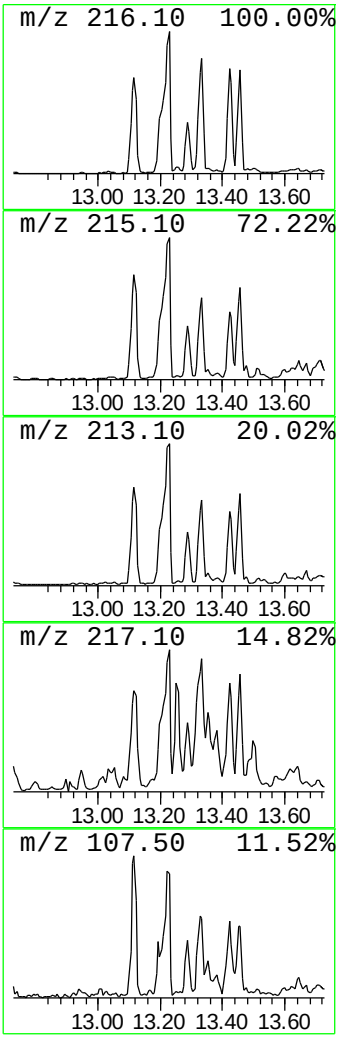
Peak Number 11 11H-Benzo[b]fluorene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.23	3.90 ng	3377000	Chrysene-d12	14.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	72





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Acq On : 27 Nov 2019 18:37
Operator : JU
Sample : K5959-10 10X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B2

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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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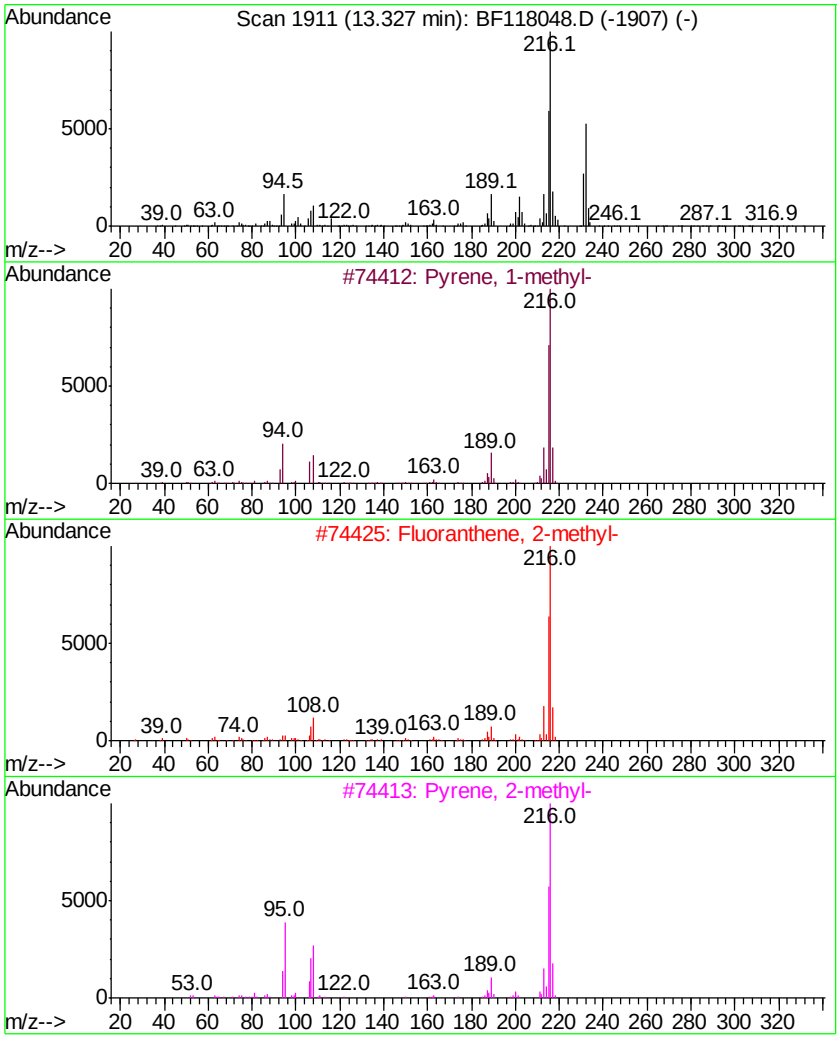
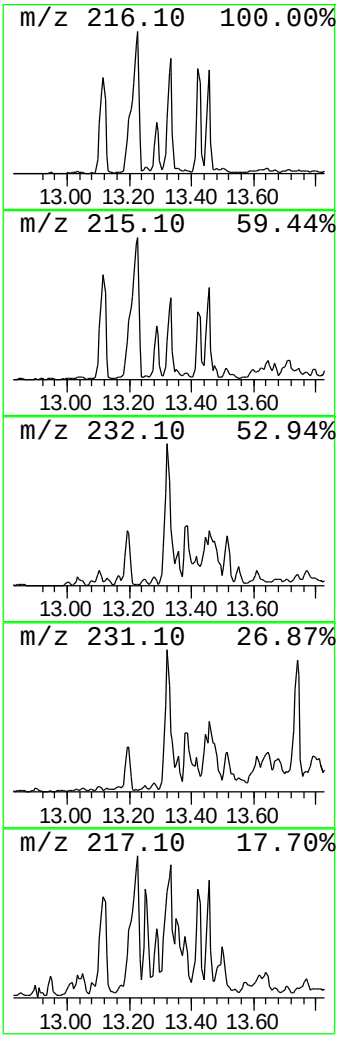
Peak Number 12 Pyrene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.33	5.14 ng	4446830	Chrysene-d12	14.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	83
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	78
5	Pyrene, 4-methyl-	216	C17H12	003353-12-6	55





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Sample : K5959-10 10X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WS-112019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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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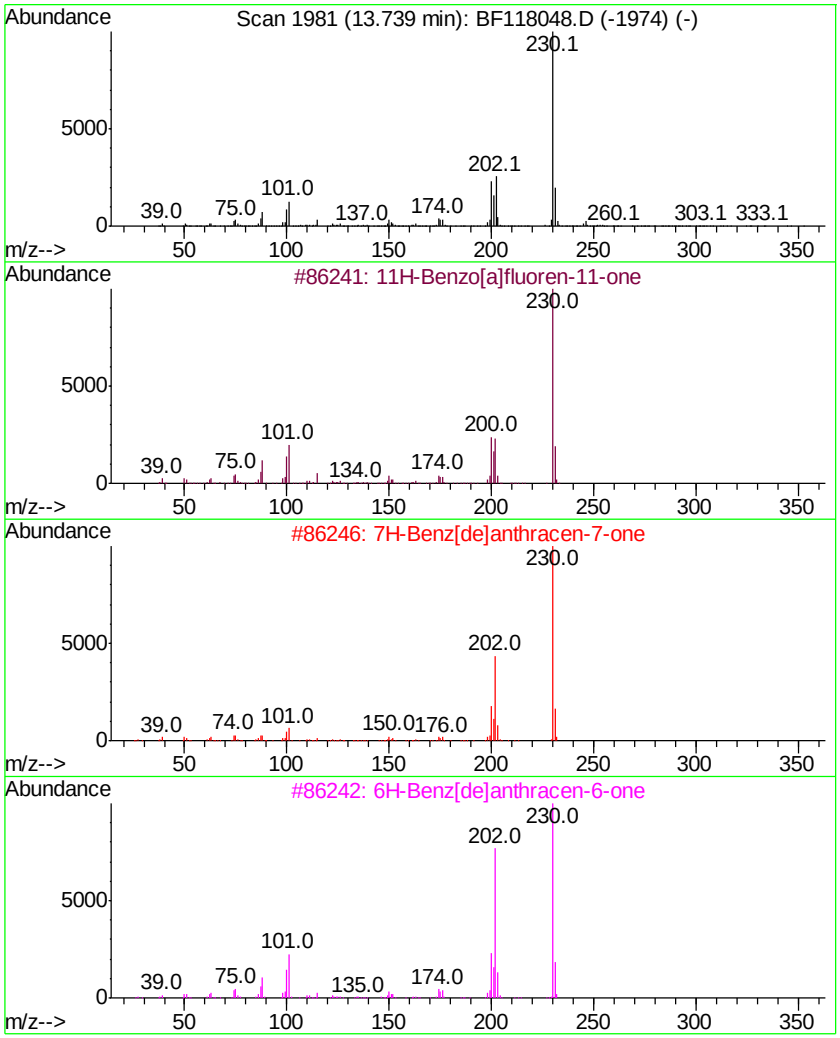
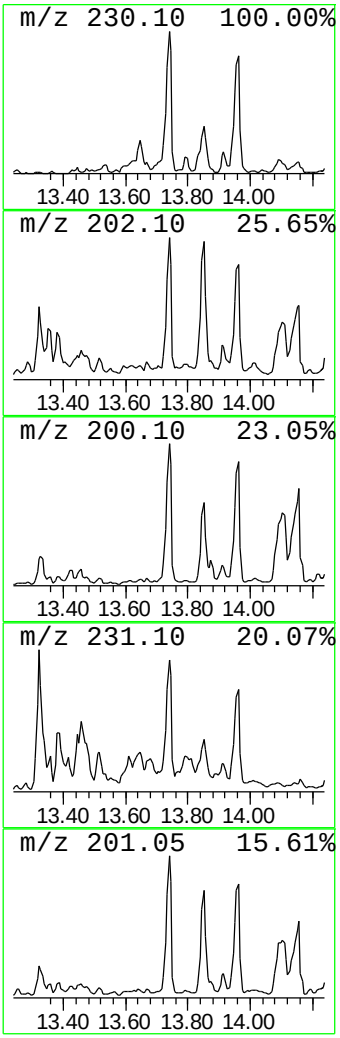
Peak Number 13 11H-Benzo[a]fluoren-11-one Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.74	4.89 ng	4232100	Chrysene-d12	14.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	97
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
3	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	83
4	o-Terphenyl	230	C18H14	000084-15-1	64
5	Dibenzo[c,h][2,6]naphthyridine	230	C16H10N2	000218-30-4	59





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Misc :
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Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B2

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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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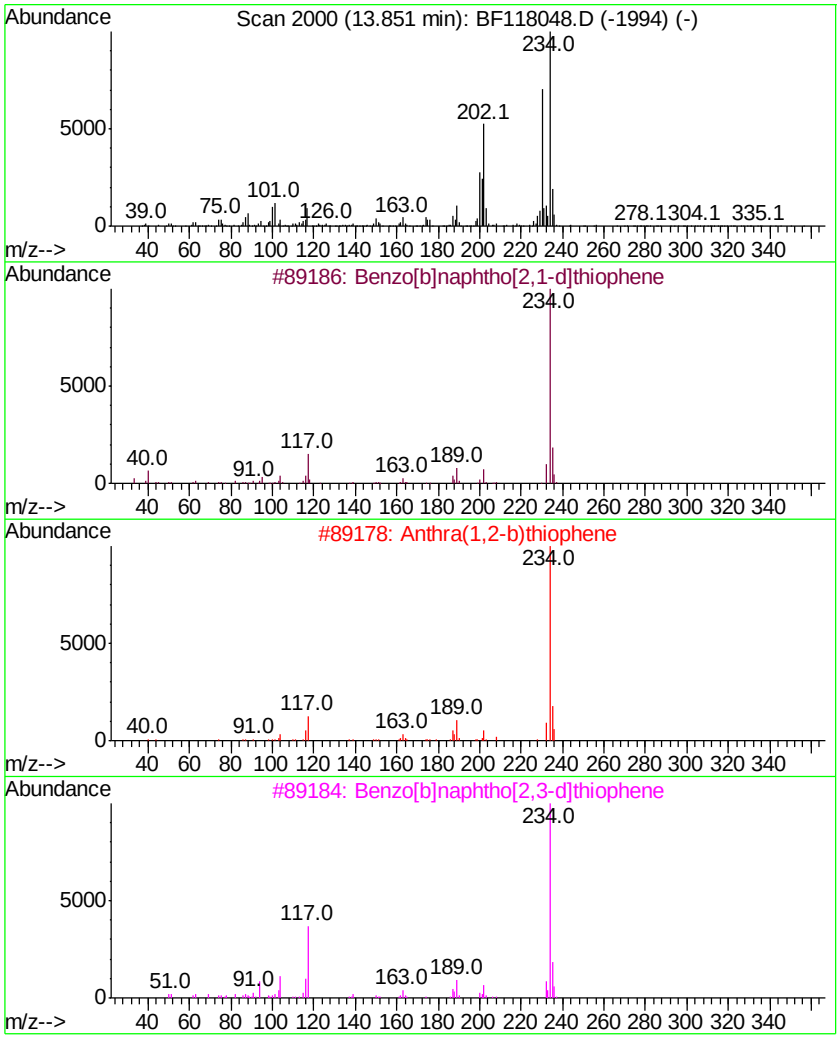
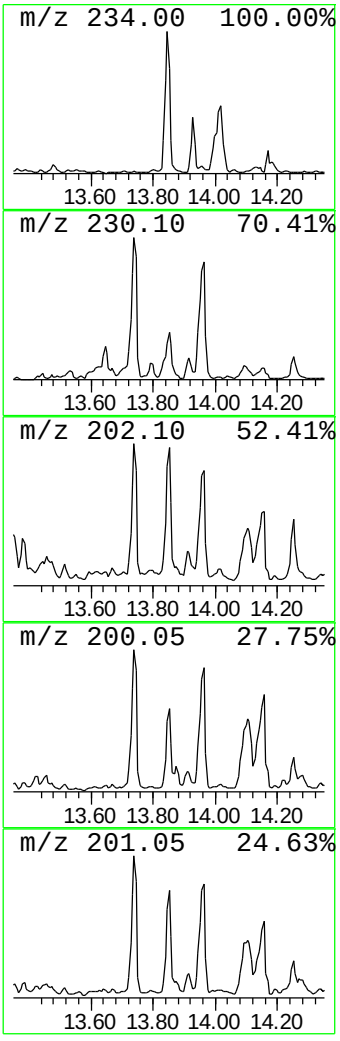
Peak Number 14 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.85	4.89 ng	4234860	Chrysene-d12	14.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	90
2	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	78
3	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	64
4	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	60
5	Quinoxalino[2,3-b]quinoxaline, 5...	234	C14H10N4	000531-46-4	38





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Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B2

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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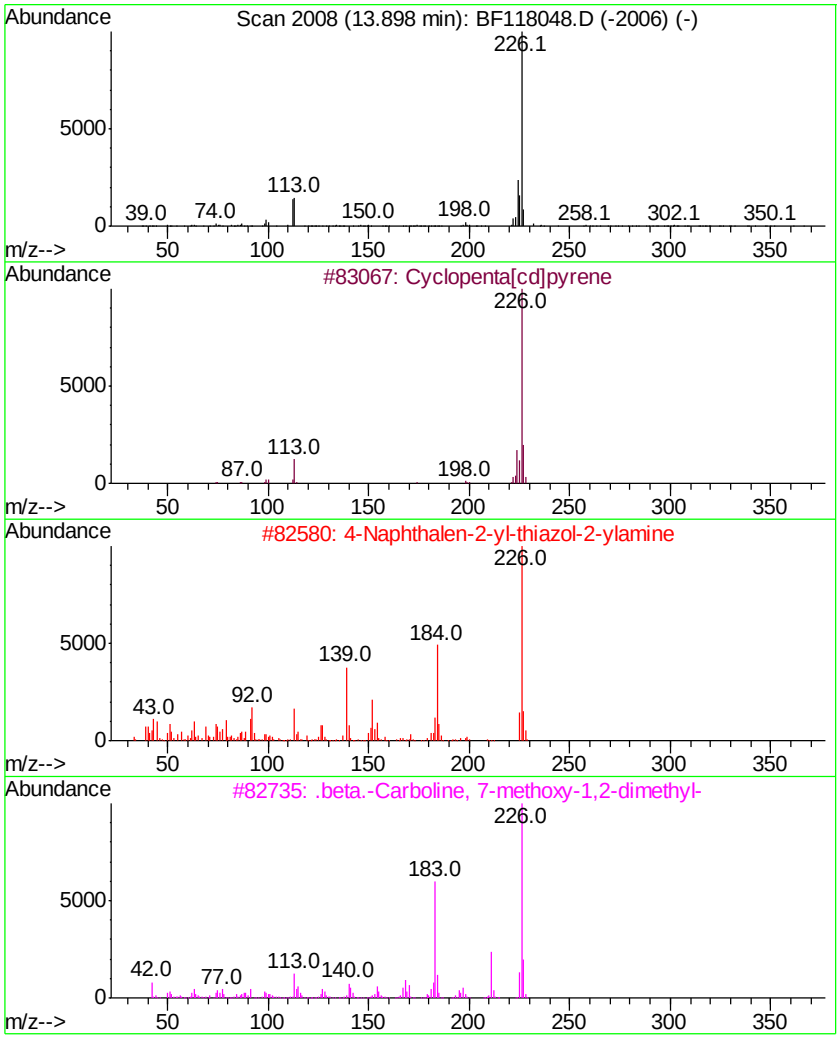
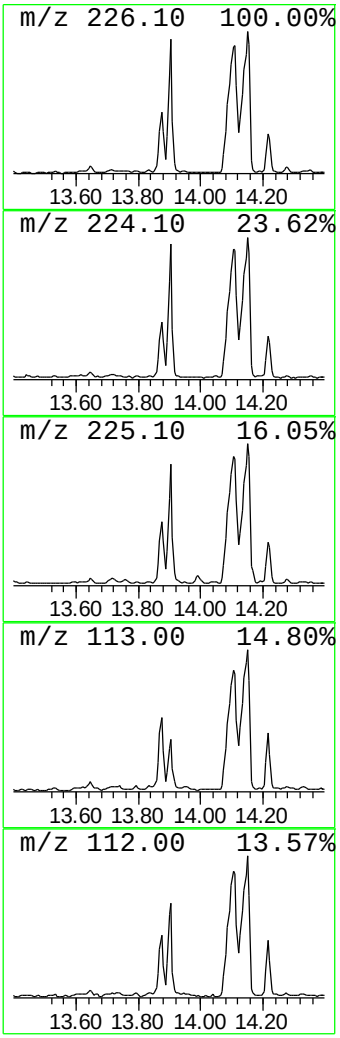
Peak Number 15 Cyclopenta[cd]pyrene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.90	4.70 ng	4072690	Chrysene-d12	14.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	60
2	4-Naphthalen-2-yl-thiazol-2-ylamine	226	C13H10N2S	1000300-53-4	50
3	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	50
4	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	43
5	1-Isopropoxy-2-phenylmethtylbenzene	226	C16H18O	080227-92-5	38





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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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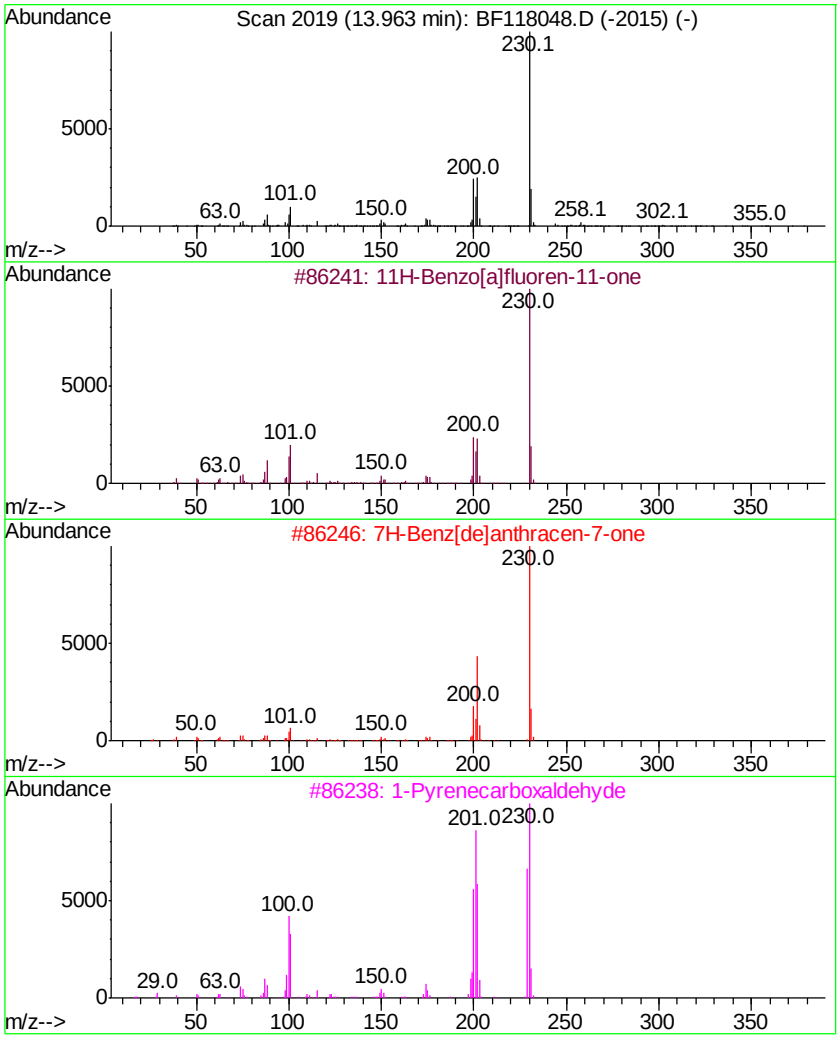
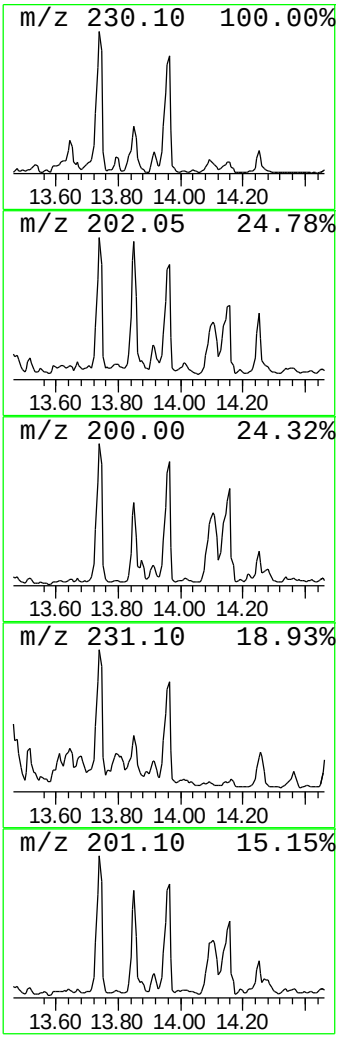
Peak Number 16 7H-Benz[de]anthracen-7-one Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.96	3.91 ng	3381640	Chrysene-d12	14.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	97
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
3	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	78
4	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	68
5	6,6-Diphenylfulvene	230	C18H14	002175-90-8	59





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\
Data File : BF118048.D
Acq On : 27 Nov 2019 18:37
Operator : JU
Sample : K5959-10 10X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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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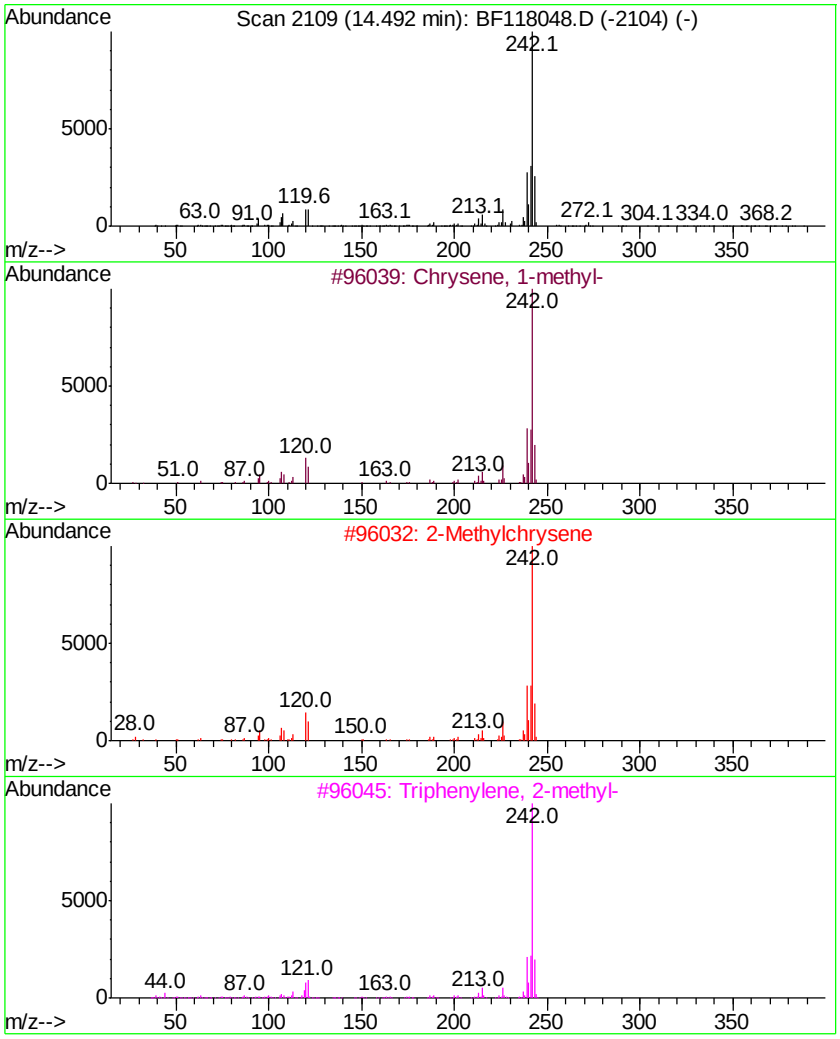
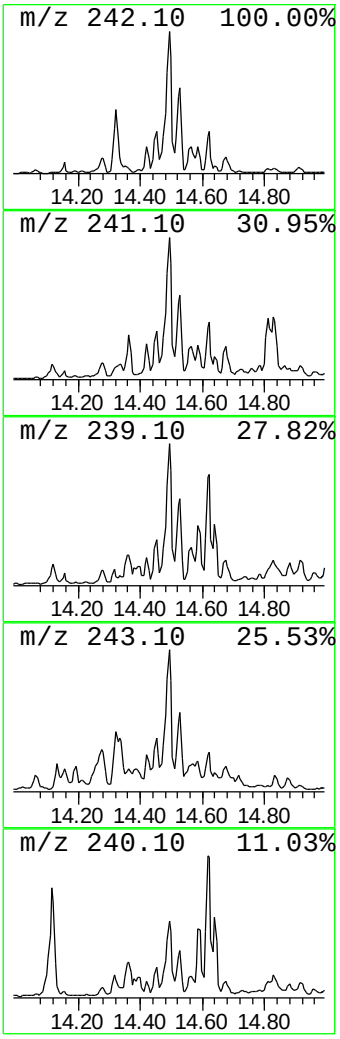
Peak Number 17 Chrysene, 1-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.49	3.93 ng	3401640	Chrysene-d12	14.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chrysene, 1-methyl-	242	C19H14	003351-28-8	96
2	2-Methylchrysene	242	C19H14	003351-32-4	96
3	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	96
4	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	94
5	1H-Benz[f]indene, 2-phenyl-	242	C19H14	1000305-22-4	94





Library Search Compound Report

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Data File : BF118048.D
Acq On : 27 Nov 2019 18:37
Operator : JU
Sample : K5959-10 10X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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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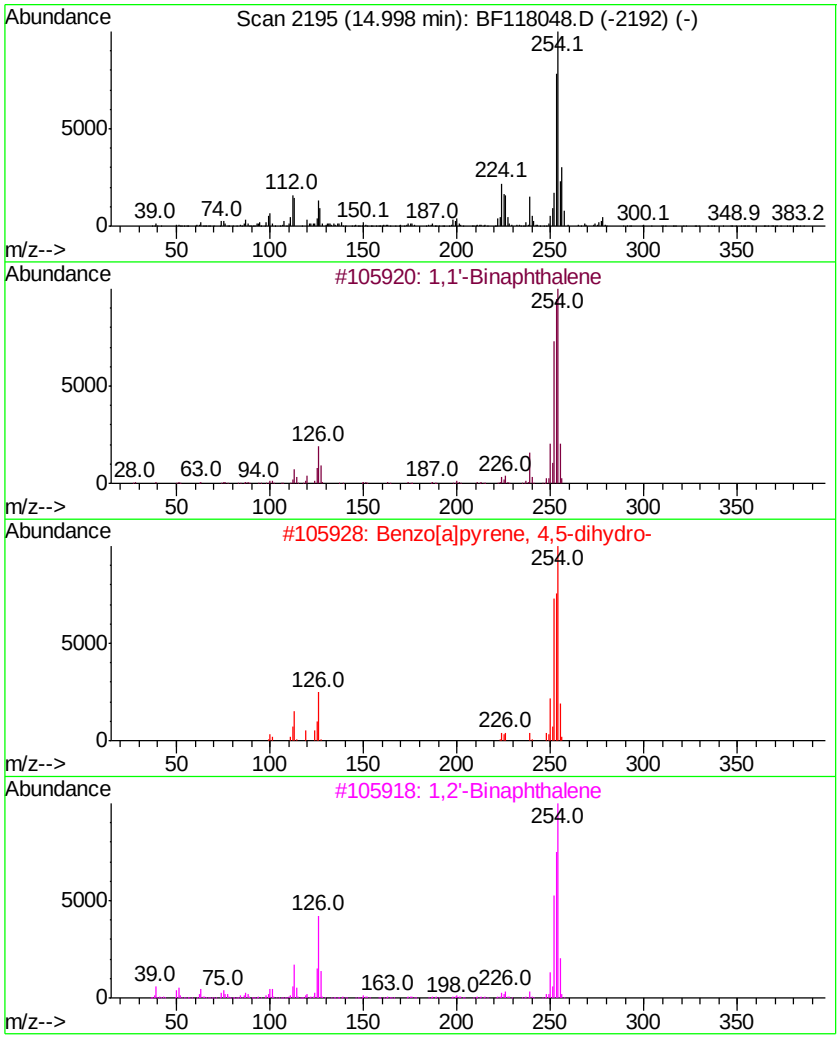
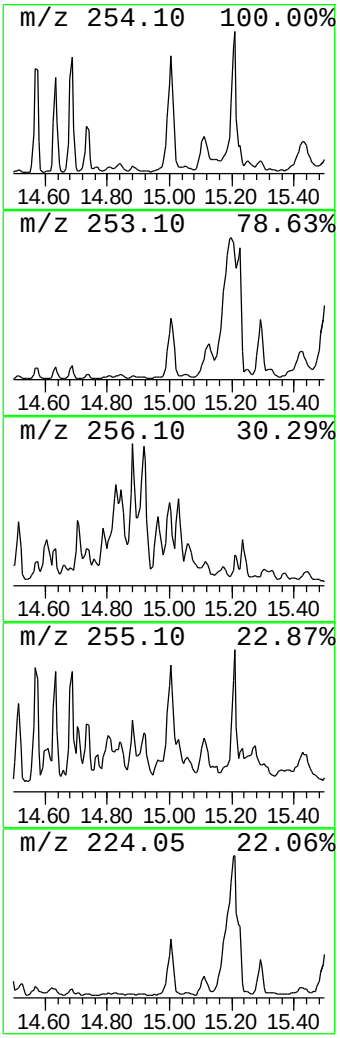
Peak Number 18 1,1'-Binaphthalene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.00	3.54 ng	1857230	Perylene-d12	15.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Binaphthalene	254	C20H14	000604-53-5	76
2	Benzo[a]pyrene, 4,5-dihydro-	254	C20H14	057652-66-1	64
3	1,2'-Binaphthalene	254	C20H14	004325-74-0	64
4	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	64
5	Imidazo[1,2-b]-1,2,4-triazine, 6...	254	C14H14N4O	1000277-24-4	64





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\
Data File : BF118048.D
Acq On : 27 Nov 2019 18:37
Operator : JU
Sample : K5959-10 10X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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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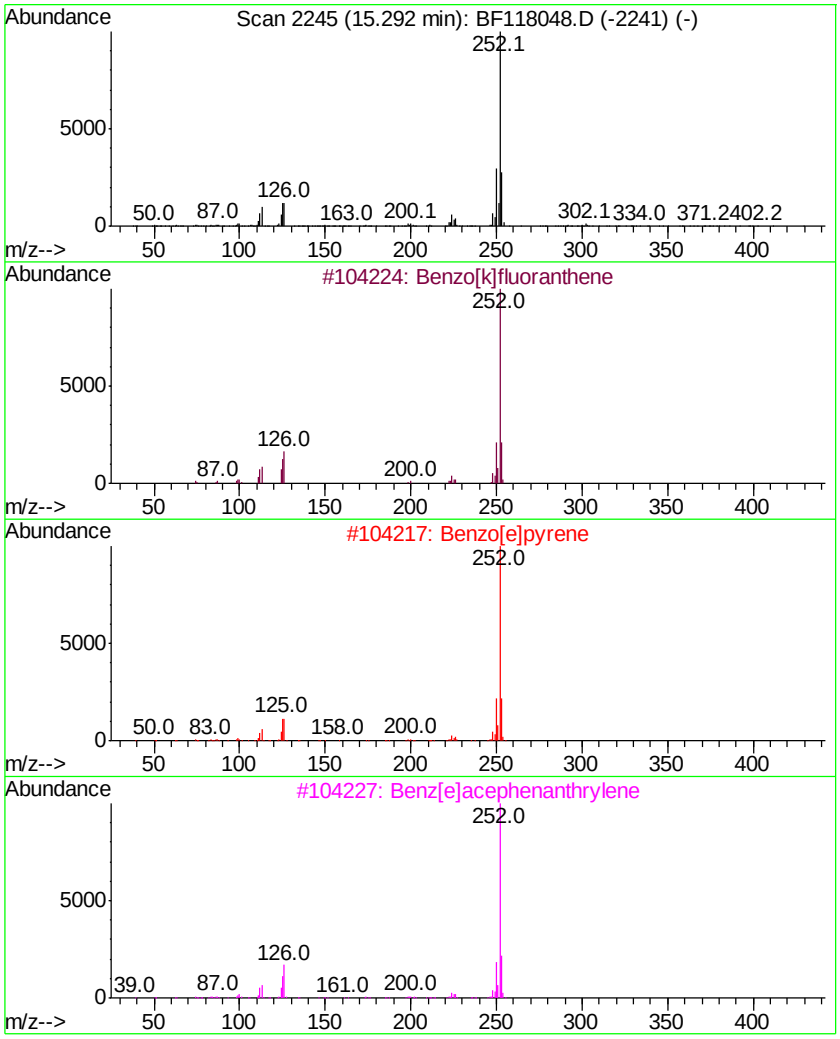
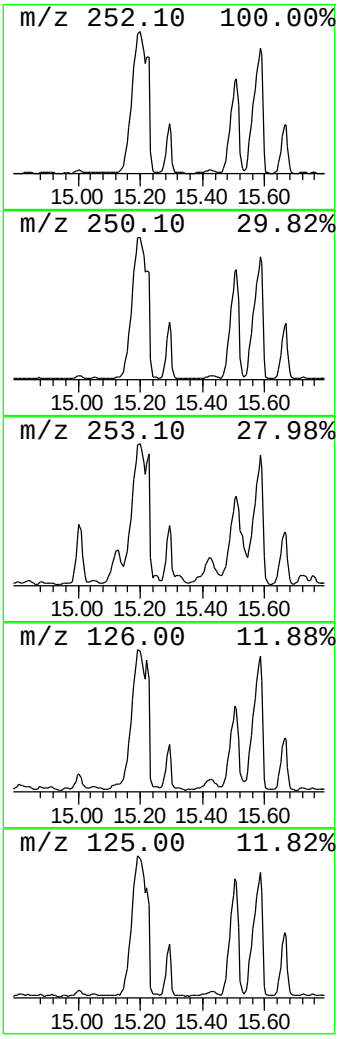
Peak Number 19 Benzo[e]pyrene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.29	4.27 ng	2244460	Perylene-d12	15.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	98
2	Benzo[e]pyrene	252	C20H12	000192-97-2	93
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	91
5	Perylene	252	C20H12	000198-55-0	81





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Acq On : 27 Nov 2019 18:37
Operator : JU
Sample : K5959-10 10X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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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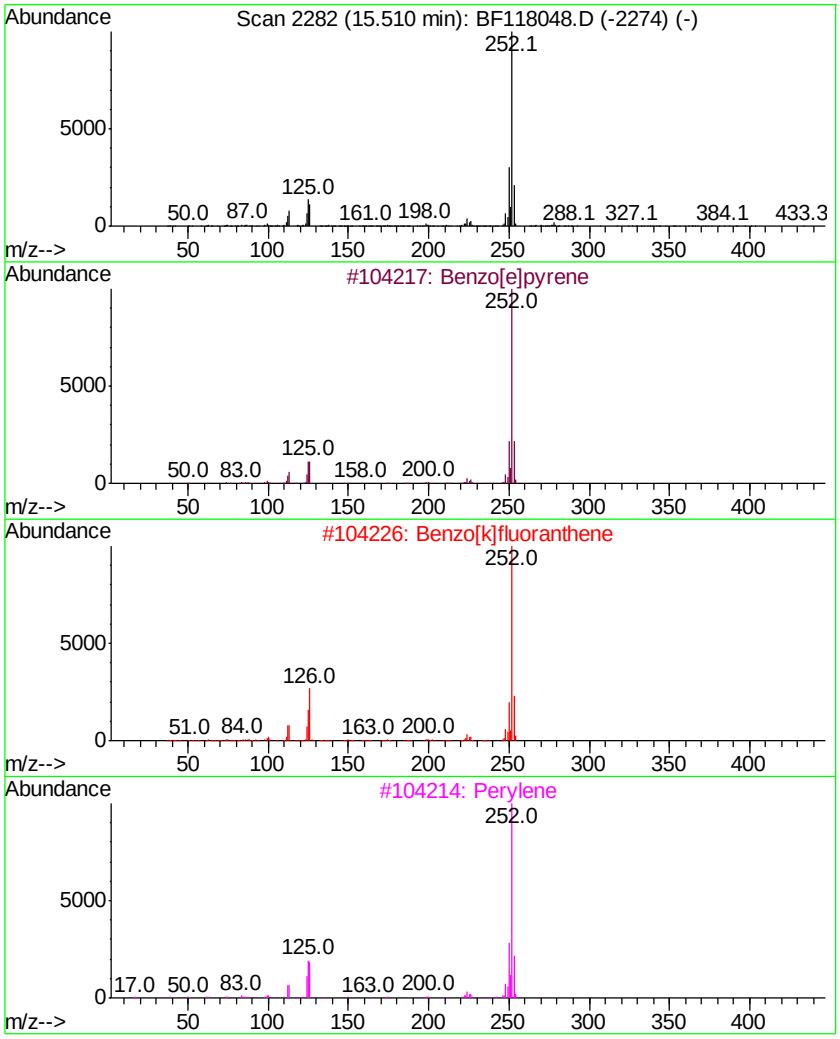
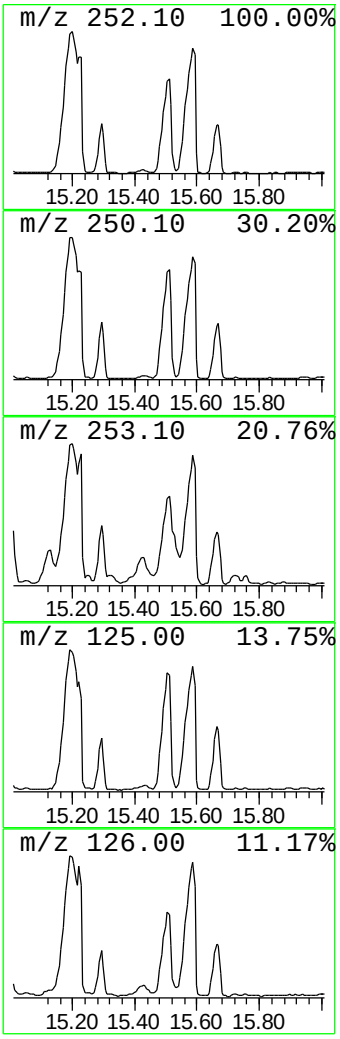
Peak Number 20 Perylene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.51	14.60 ng	7668540	Perylene-d12	15.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	94
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
3	Perylene	252	C20H12	000198-55-0	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF112719\
Data File : BF118048.D
Acq On : 27 Nov 2019 18:37
Operator : JU
Sample : K5959-10 10X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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
Naphthalene, 1,5-...	9.52	22.5	ng	1092290	3	9.93	970836	20.0
Naphthalene, 2,3-...	9.59	27.8	ng	1349720	3	9.93	970836	20.0
Naphthalene, 2,7-...	9.62	14.9	ng	723831	3	9.93	970836	20.0
Naphthalene, 1,4,...	10.25	13.4	ng	650375	3	9.93	970836	20.0
1-Isopropenylnaph...	10.55	13.6	ng	660572	3	9.93	970836	20.0
9H-Fluoren-9-ol	10.65	27.9	ng	1355000	3	9.93	970836	20.0
Phenanthrene, 1-m...	11.95	3.6	ng	4297060	4	11.44	23645700	20.0
Phenanthrene, 2-m...	11.97	4.3	ng	5085570	4	11.44	23645700	20.0
4H-Cyclopenta[def...	12.06	5.4	ng	6390060	4	11.44	23645700	20.0
Pyrene, 1-methyl-	13.12	5.6	ng	4856520	5	14.12	17315200	20.0
11H-Benzo[b]fluorene	13.23	3.9	ng	3377000	5	14.12	17315200	20.0
Pyrene, 2-methyl-	13.33	5.1	ng	4446830	5	14.12	17315200	20.0
11H-Benzo[a]fluor...	13.74	4.9	ng	4232100	5	14.12	17315200	20.0
Benzo[b]naphtho[2...	13.85	4.9	ng	4234860	5	14.12	17315200	20.0
Cyclopenta[cd]pyrene	13.90	4.7	ng	4072690	5	14.12	17315200	20.0
7H-Benz[de]anthra...	13.96	3.9	ng	3381640	5	14.12	17315200	20.0
Chrysene, 1-methyl-	14.49	3.9	ng	3401640	5	14.12	17315200	20.0
1,1'-Binaphthalene	15.00	3.5	ng	1857230	6	15.63	10504600	20.0
Benzo[e]pyrene	15.29	4.3	ng	2244460	6	15.63	10504600	20.0
Perylene	15.51	14.6	ng	7668540	6	15.63	10504600	20.0