LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116640.D
Acq On : 29 Aug 2019 2:51
Operator : HP/JU
Sample : K4088-08 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-082619

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-BF082819.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	5.481	572	577	580	rBV	923227	903532	54.02%	3.499%
2	6.487	744	748	754	rBV	1088714	895873	53.57%	3.469%
3	6.634	769	773	776	rBV	969849	812958	48.61%	3.148%
4	6.863	809	812	816	rBV	530319	450938	26.96%	1.746%
5	7.022	835	839	842	rBV	947012	735672	43.99%	2.849%
6	7.416	902	906	910	rBV	626063	533334	31.89%	2.065%
7	8.145	1026	1030	1032	rBV	741080	579335	34.64%	2.243%
8	8.163	1032	1033	1039	rVB	73195	61126	3.65%	0.237%
9	9.216	1209	1212	1215	rBV	833694	639840	38.26%	2.478%
10	9.557	1266	1270	1272	rBV	24896	22038	1.32%	0.085%
11	9.604	1276	1278	1284	rVB2	40638	43689	2.61%	0.169%
12	9.757	1301	1304	1307	rBV	103357	80004	4.78%	0.310%
13	9.898	1324	1328	1331	rVB	587503	443338	26.51%	1.717%
14	9.927	1331	1333	1336	rVB	59654	42032	2.51%	0.163%
15	10.098	1357	1362	1366	rBV	56706	45694	2.73%	0.177%
16	10.439	1417	1420	1426	rVB	122030	109332	6.54%	0.423%
17	10.510	1426	1432	1433	rBV2	16133	18472	1.10%	0.072%
18	10.598	1444	1447	1450	rVB	21528	18618	1.11%	0.072%
19	10.680	1457	1461	1465	rVB	461573	391347	23.40%	1.515%
20	10.804	1478	1482	1487	rBV4	33615	42437	2.54%	0.164%
21	10.986	1509	1513	1516	rBV	34792	40631	2.43%	0.157%
22	11.016	1516	1518	1521	rVB2	24382	19145	1.14%	0.074%
23	11.074	1525	1528	1531	rVB	22505	19636	1.17%	0.076%
24	11.180	1543	1546	1550	rVB3	17717	19901	1.19%	0.077%
25	11.227	1550	1554	1556	rBV2	18282	21555	1.29%	0.083%
26	11.274	1560	1562	1568	rVB2	65489	66285	3.96%	0.257%
27	11.380	1576	1580	1582	rBV	454099	448582	26.82%	1.737%
28	11.404	1582	1584	1587	rVV	1024160	728831	43.58%	2.822%
29	11.451	1589	1592	1595	rVV	270644	221734	13.26%	0.859%
30	11.486	1595	1598	1601	rVB2	29233	32916	1.97%	0.127%
31	11.604	1612	1618	1620	rBV	61396	66496	3.98%	0.257%
32	11.674	1628	1630	1632	rVB	47933	33629	2.01%	0.130%
33	11.710	1632	1636	1639	rBV2	35861	38766	2.32%	0.150%
34	11.774	1641	1647	1649	rBV	77687	75649	4.52%	0.293%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116640.D
Acq On : 29 Aug 2019 2:51
Operator : HP/JU
Sample : K4088-08 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-082619

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-BF082819.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.880	1659	1665	1667	rBV	150987	149273	8.93%	0.578%
36	11.904	1667	1669	1673	rVV	235425	217459	13.00%	0.842%
37	11.951	1673	1677	1680	rVV	78585	78065	4.67%	0.302%
38	11.992	1680	1684	1686	rVV	268273	284399	17.00%	1.101%
39	12.010	1686	1687	1691	rVB	105802	82586	4.94%	0.320%
40	12.080	1696	1699	1701	rVV2	30426	26786	1.60%	0.104%
41	12.174	1712	1715	1717	rVV	99488	93067	5.56%	0.360%
42	12.192	1717	1718	1723	rVB4	36745	30444	1.82%	0.118%
43	12.321	1738	1740	1743	rVB	35336	27013	1.62%	0.105%
44	12.357	1743	1746	1747	rBV	37685	36536	2.18%	0.141%
45	12.374	1747	1749	1752	rVB	38834	33927	2.03%	0.131%
46	12.427	1754	1758	1760	rBV	104686	106863	6.39%	0.414%
47	12.457	1760	1763	1765	rBV2	195073	200458	11.99%	0.776%
48	12.480	1765	1767	1770	rVB2	287387	229335	13.71%	0.888%
49	12.510	1770	1772	1777	rVB3	70050	80282	4.80%	0.311%
50	12.563	1778	1781	1782	rBV2	33650	28143	1.68%	0.109%
51	12.592	1782	1786	1789	rVB	1365257	1119518	66.94%	4.335%
52	12.633	1791	1793	1795	rBV	24036	21911	1.31%	0.085%
53	12.680	1799	1801	1804	rBV	66029	59667	3.57%	0.231%
54	12.739	1809	1811	1818	rVB2	53488	75876	4.54%	0.294%
55	12.821	1818	1825	1828	rBV	1172125	1226898	73.36%	4.751%
56	12.868	1830	1833	1837	rBV2	64523	107302	6.42%	0.415%
57	12.933	1841	1844	1845	rBV2	90032	75475	4.51%	0.292%
58	12.957	1845	1848	1856	rVB	959841	993830	59.42%	3.848%
59	13.033	1856	1861	1864	rBV3	201376	352715	21.09%	1.366%
60	13.098	1869	1872	1873	rVV2	50418	57326	3.43%	0.222%
61	13.121	1873	1876	1877	rVV2	143415	146988	8.79%	0.569%
62	13.145	1877	1880	1883	rVB	381964	355777	21.27%	1.378%
63	13.210	1888	1891	1894	rBV	394169	317245	18.97%	1.228%
64	13.245	1894	1897	1901	rVV2	216244	205208	12.27%	0.795%
65	13.304	1905	1907	1910	rVV3	61907	78757	4.71%	0.305%
66	13.339	1910	1913	1916	rVV	184685	172894	10.34%	0.669%
67	13.368	1916	1918	1922	rVB	158594	148439	8.88%	0.575%
68	13.521	1941	1944	1945	rBV3	57966	60029	3.59%	0.232%
69	13.539	1945	1947	1950	rVB2	56234	64086	3.83%	0.248%
70	13.621	1958	1961	1963	rBV2	68655	93785	5.61%	0.363%
71	13.645	1963	1965	1969	rVB2	83856	98183	5.87%	0.380%

LSC Area Percent Report

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Acq On : 29 Aug 2019 2:51
Operator : HP/JU
Sample : K4088-08 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-082619

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-BF082819.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.757	1982	1984	1987	rVB	147732	147604	8.83%	0.572%
73	13.786	1987	1989	1991	rVV	160954	127115	7.60%	0.492%
74	13.810	1991	1993	1997	rVV2	131432	159844	9.56%	0.619%
75	13.851	1997	2000	2010	rVB5	196092	297498	17.79%	1.152%
76	14.004	2022	2026	2030	rBV3	1240753	1672454	100.00%	6.476%
77	14.039	2030	2032	2037	rVB	929782	766587	45.84%	2.968%
78	14.098	2040	2042	2043	rBV2	52430	40052	2.39%	0.155%
79	14.115	2043	2045	2048	rVB	140319	107889	6.45%	0.418%
80	14.151	2048	2051	2053	rBV	101547	81280	4.86%	0.315%
81	14.192	2054	2058	2061	rVV3	170780	231538	13.84%	0.897%
82	14.227	2061	2064	2069	rVV2	108047	110765	6.62%	0.429%
83	14.262	2069	2070	2073	rVB3	56211	44913	2.69%	0.174%
84	14.357	2084	2086	2089	rBV	149210	153250	9.16%	0.593%
85	14.398	2089	2093	2096	rVV	358905	544985	32.59%	2.110%
86	14.427	2096	2098	2101	rVB	168036	176083	10.53%	0.682%
87	14.486	2106	2108	2111	rVV2	231732	303816	18.17%	1.176%
88	14.521	2111	2114	2115	rVV	209664	218045	13.04%	0.844%
89	14.539	2115	2117	2121	rVB2	182970	196872	11.77%	0.762%
90	14.786	2157	2159	2162	rVB3	93330	77576	4.64%	0.300%
91	14.815	2162	2164	2165	rBV	83366	52651	3.15%	0.204%
92	14.833	2165	2167	2168	rBV	96073	75614	4.52%	0.293%
93	15.051	2199	2204	2207	rBV	946589	1587290	94.91%	6.146%
94	15.151	2219	2221	2227	rVB	238265	282736	16.91%	1.095%
95	15.351	2251	2255	2260	rVB	378591	535610	32.03%	2.074%
96	15.386	2260	2261	2262	rBV	48933	21856	1.31%	0.085%
97	15.409	2262	2265	2270	rVB	532340	749442	44.81%	2.902%
98	15.474	2272	2276	2279	rBV	256173	339289	20.29%	1.314%
99	16.927	2519	2523	2531	rVB3	139952	277363	16.58%	1.074%
100	17.368	2593	2598	2608	rVB	94652	205054	12.26%	0.794%

Sum of corrected areas: 25824981

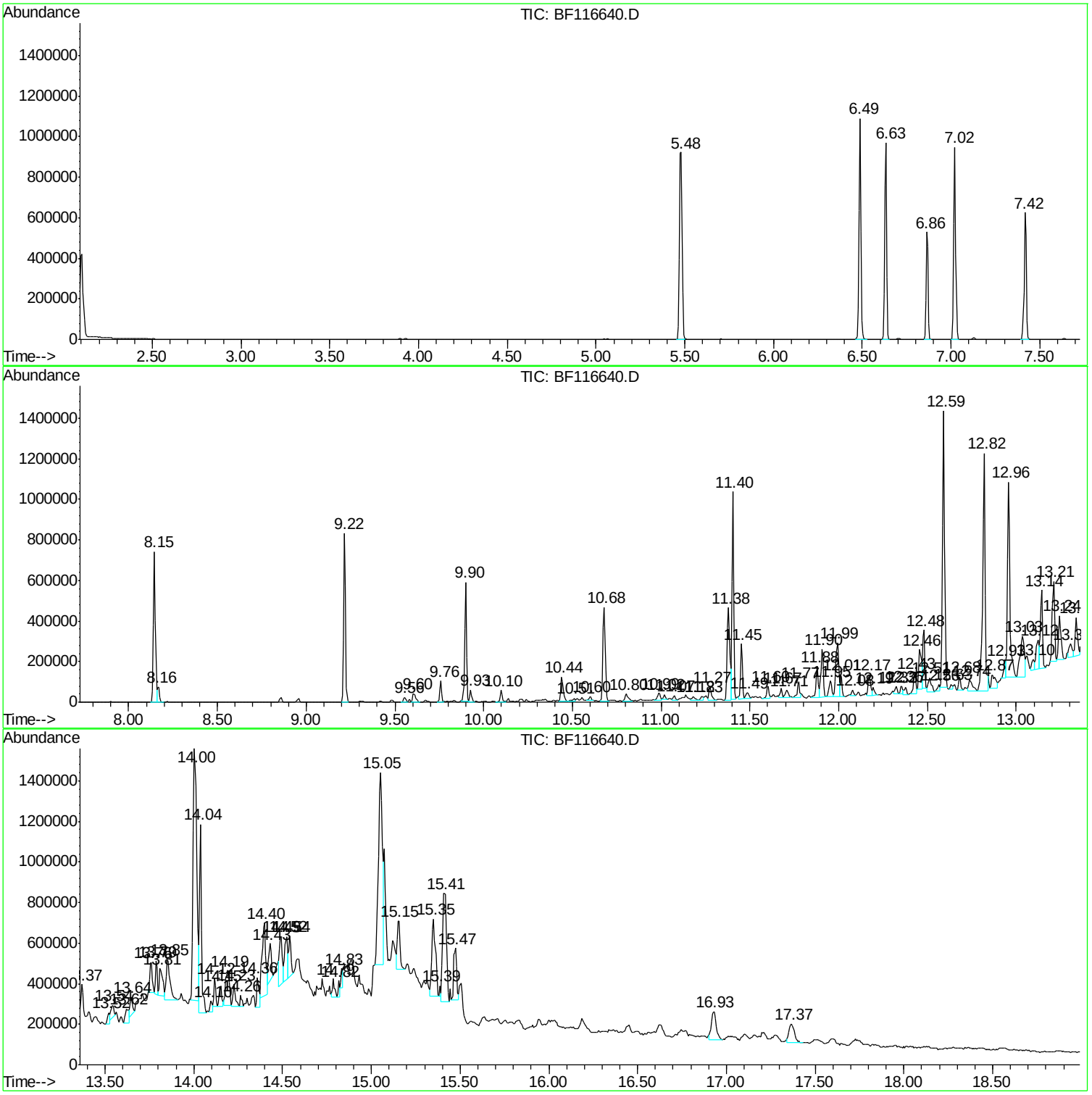
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116640.D
Acq On : 29 Aug 2019 2:51
Operator : HP/JU
Sample : K4088-08 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CL-02-082619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.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\BF082819\
Data File : BF116640.D
Acq On : 29 Aug 2019 2:51
Operator : HP/JU
Sample : K4088-08 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-082619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

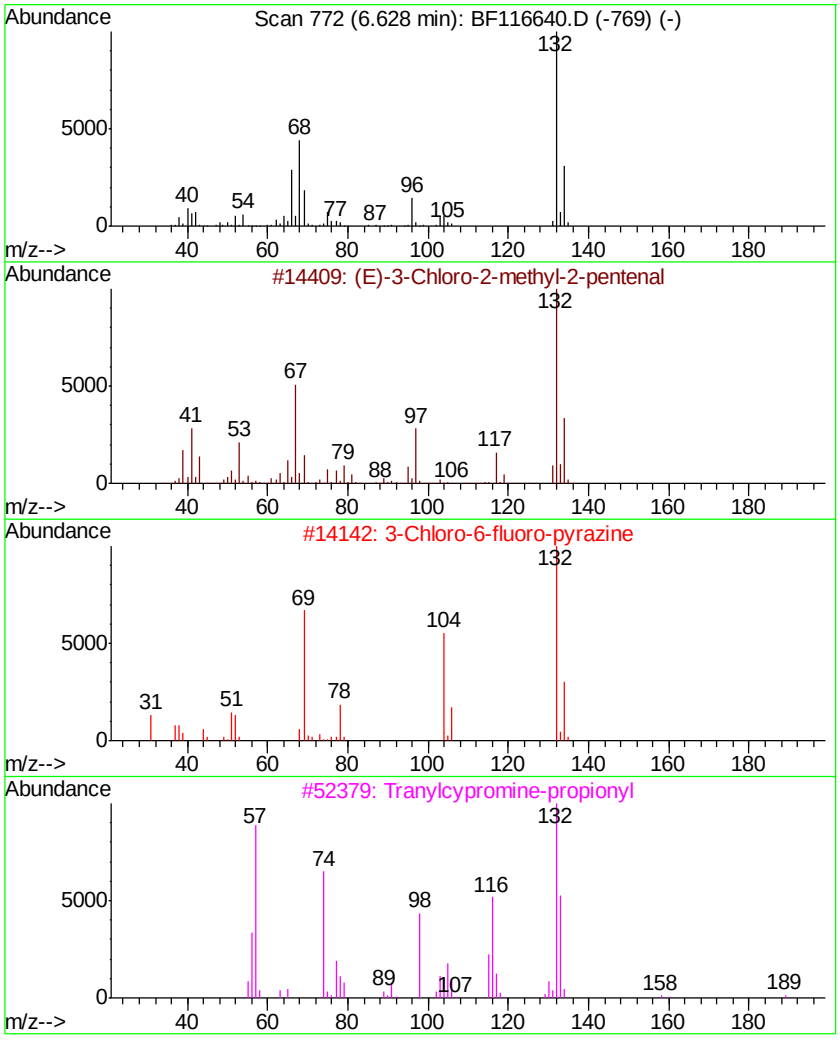
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

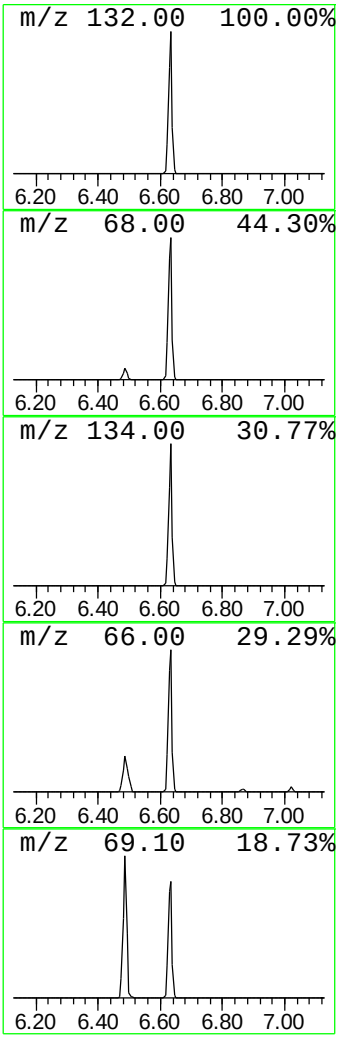
****

Peak Number 1 unknown6.63 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.63	36.06 ng	812958	1,4-Dichlorobenzene-d4	6.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	16
2	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
4	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
5	Xenon	132	Xe	007440-63-3	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116640.D
Acq On : 29 Aug 2019 2:51
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Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-082619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

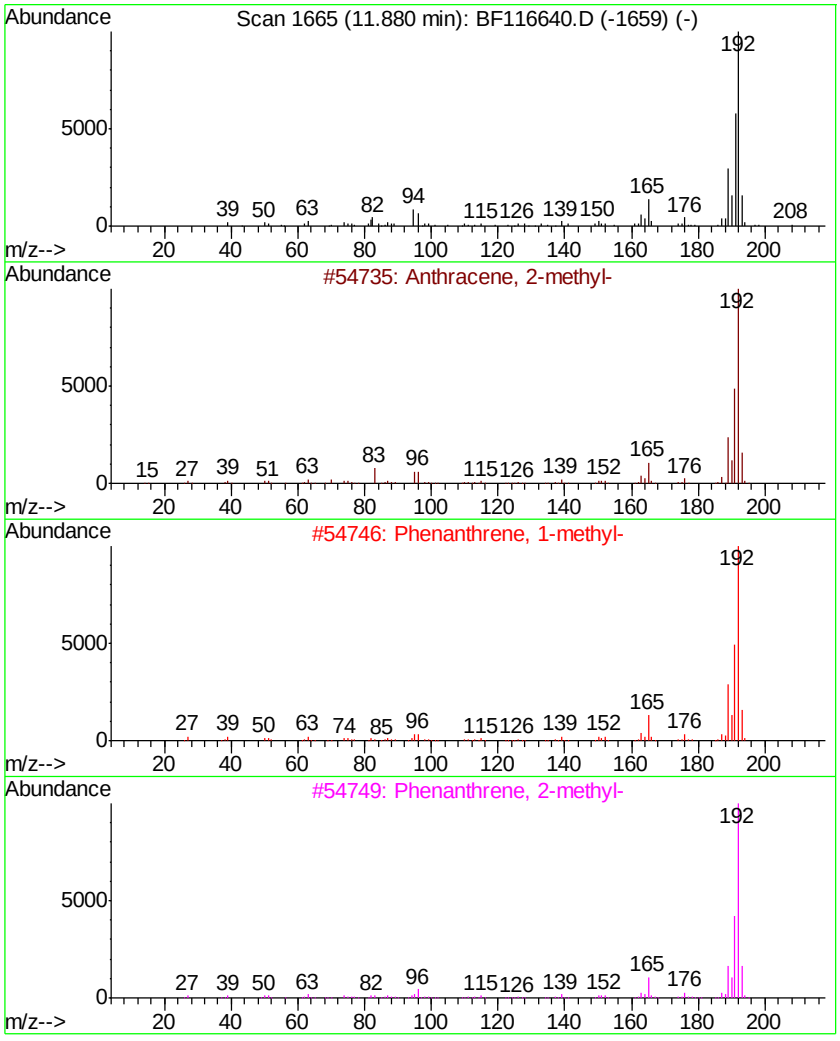
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

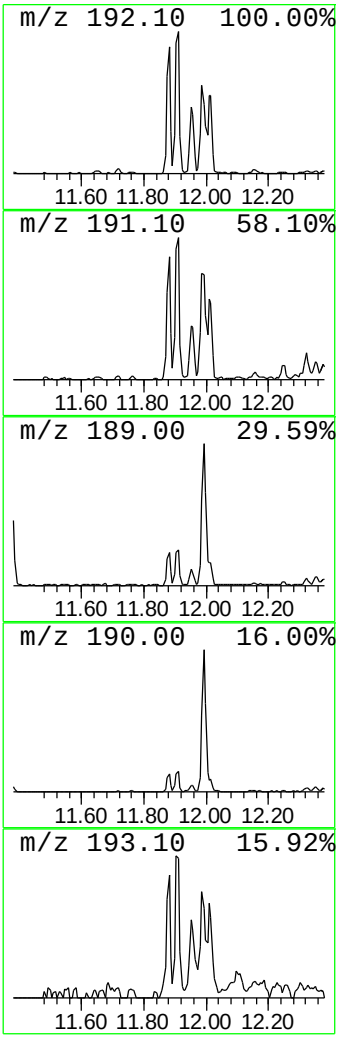
****

Peak Number 3 Anthracene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.88	6.66 ng	149273	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116640.D
Acq On : 29 Aug 2019 2:51
Operator : HP/JU
Sample : K4088-08 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-082619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

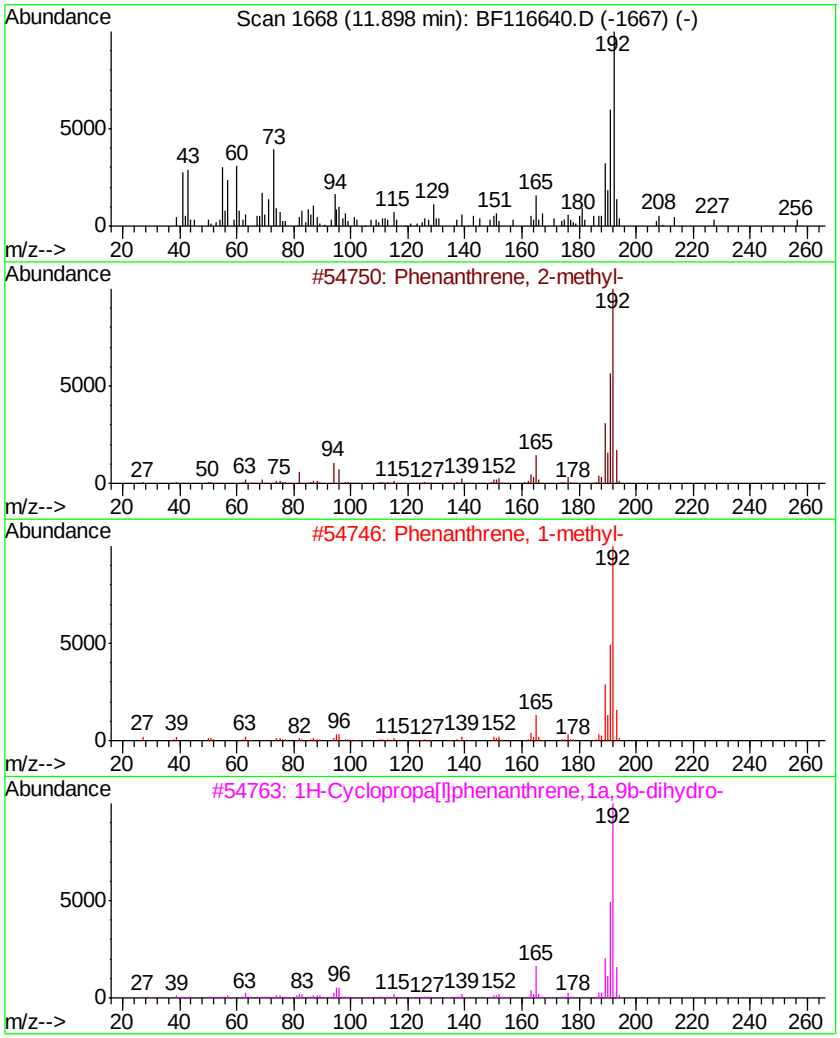
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

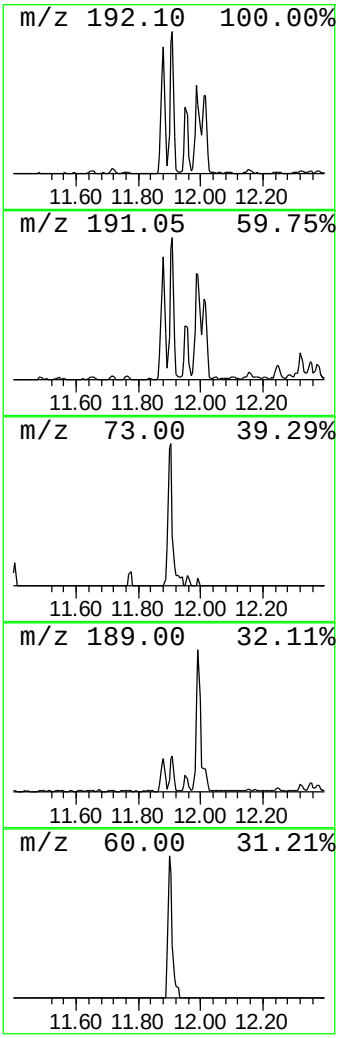
****

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	9.70 ng	217459	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116640.D
Acq On : 29 Aug 2019 2:51
Operator : HP/JU
Sample : K4088-08 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-082619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

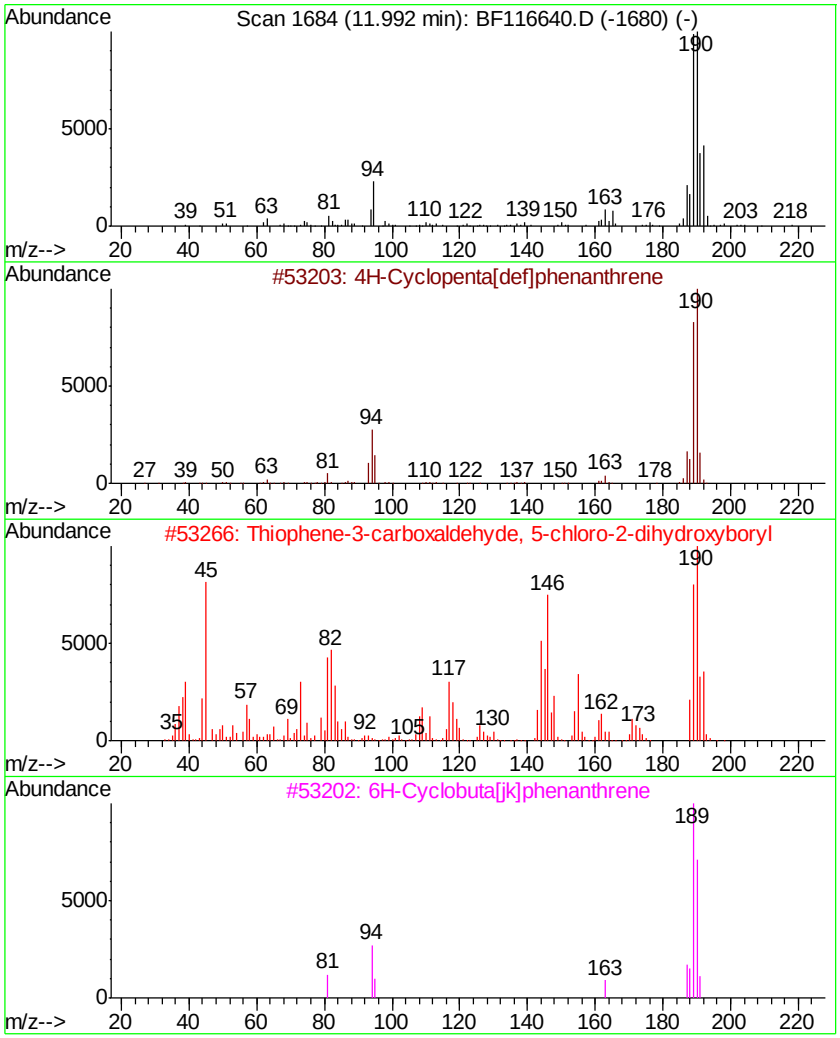
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

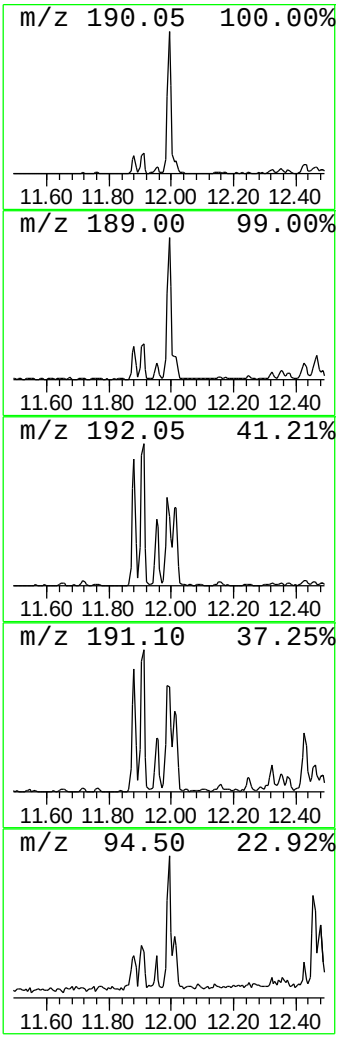
****

Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	12.68 ng	284399	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	81
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	52
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	45
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	42
5	1,1'-Biphenyl, 4,4'-difluoro-	190	C12H8F2	000398-23-2	17





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116640.D
Acq On : 29 Aug 2019 2:51
Operator : HP/JU
Sample : K4088-08 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-082619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

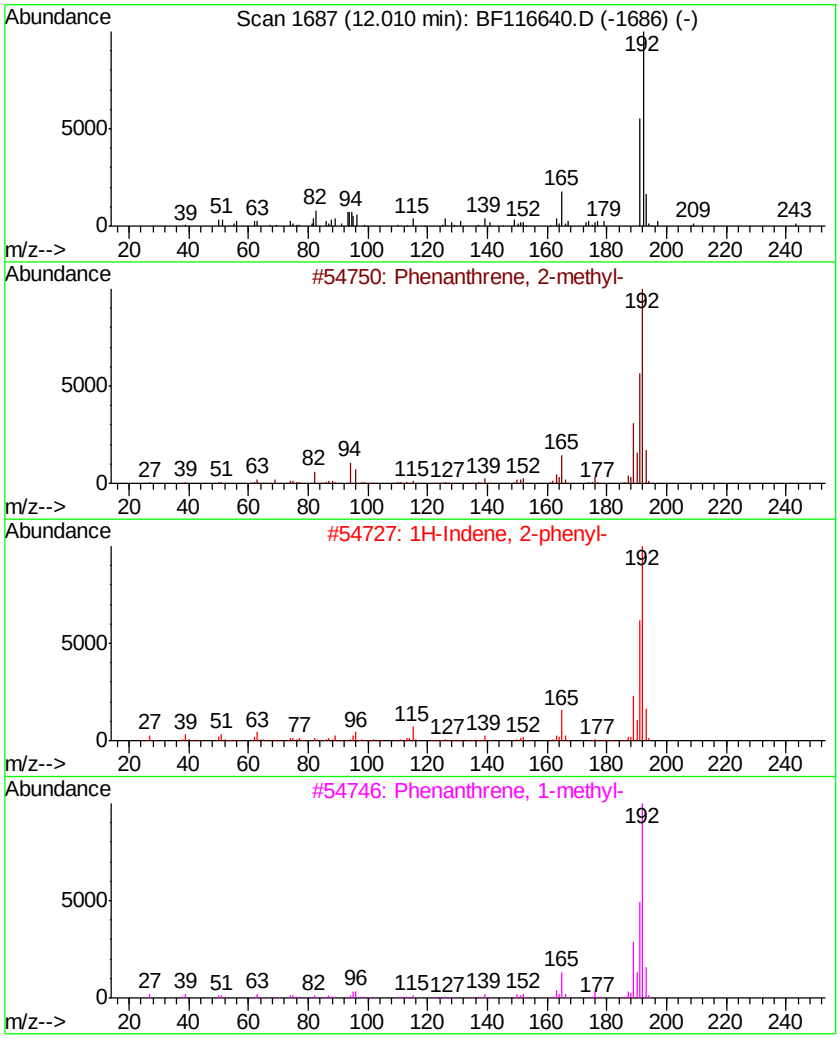
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

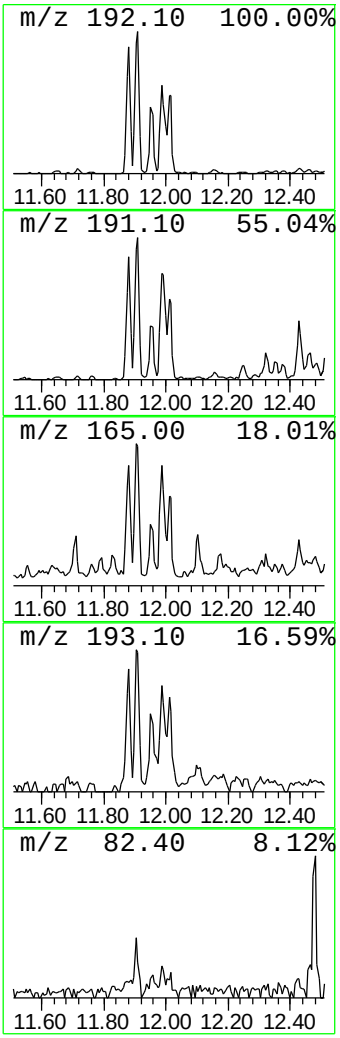
****

Peak Number 6 1H-Indene, 2-phenyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.01	3.68 ng	82586	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	90
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	87





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Acq On : 29 Aug 2019 2:51
Operator : HP/JU
Sample : K4088-08 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-082619

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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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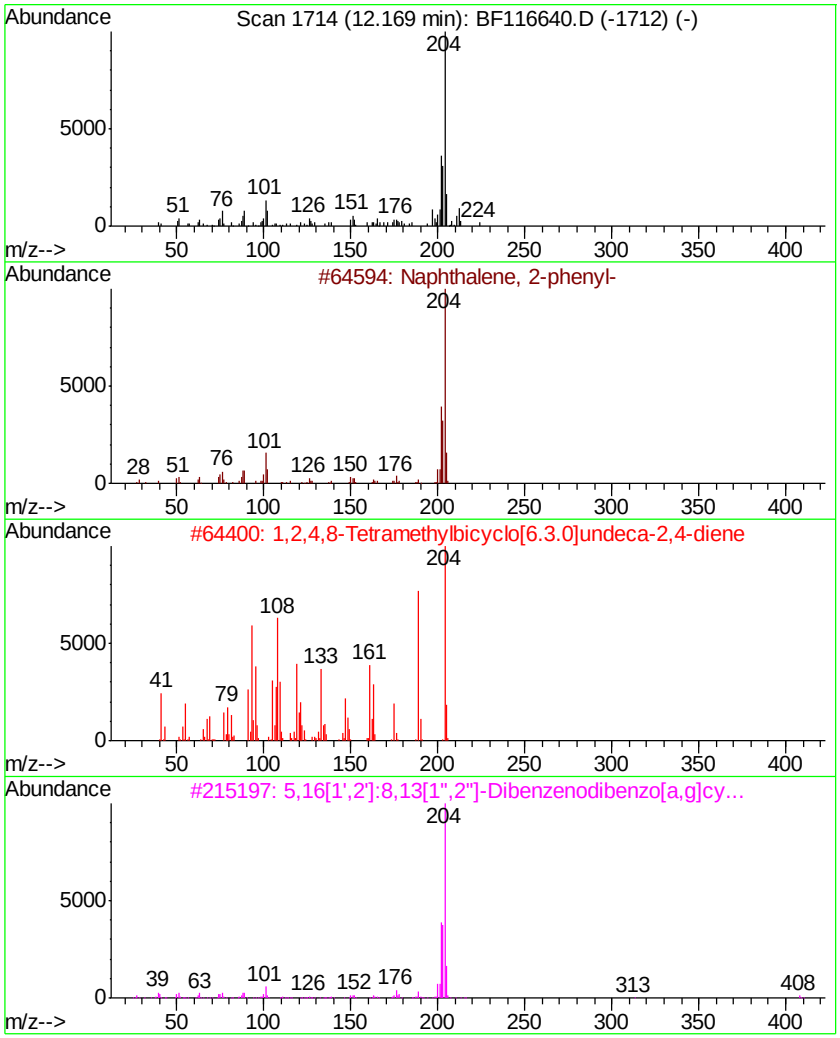
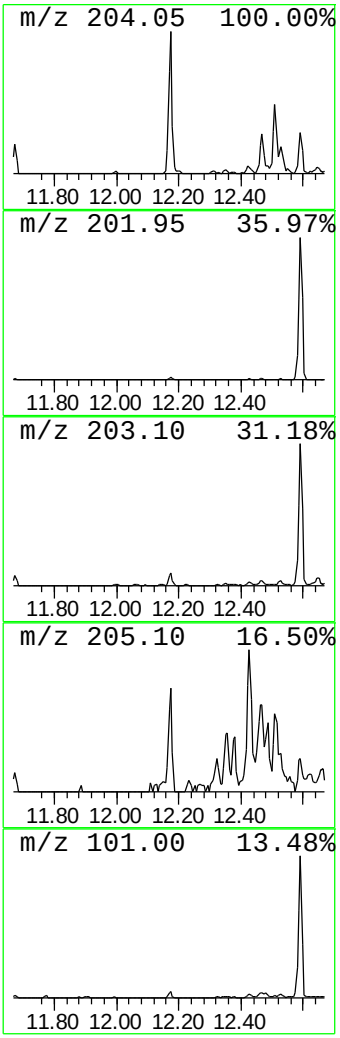
Peak Number 7 Naphthalene, 2-phenyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.17	4.15 ng	93067	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	86
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	74
5	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	52





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Instrument : BNA_F
ClientSampleId : CL-02-082619

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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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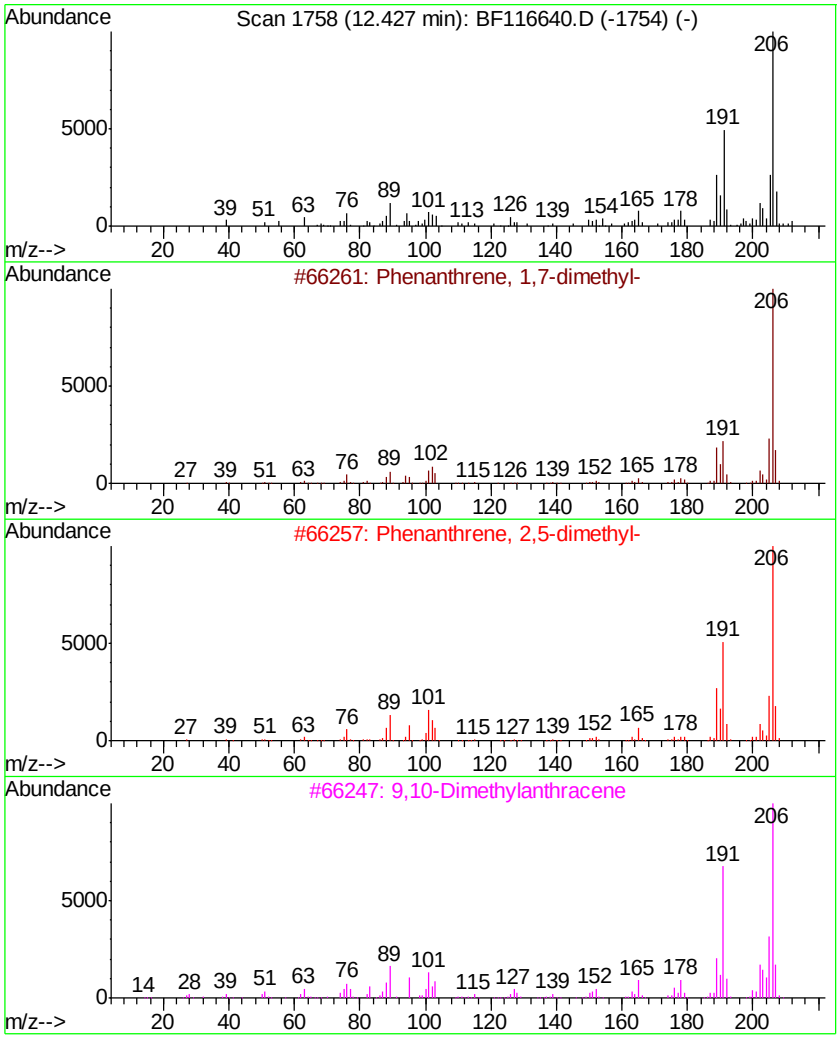
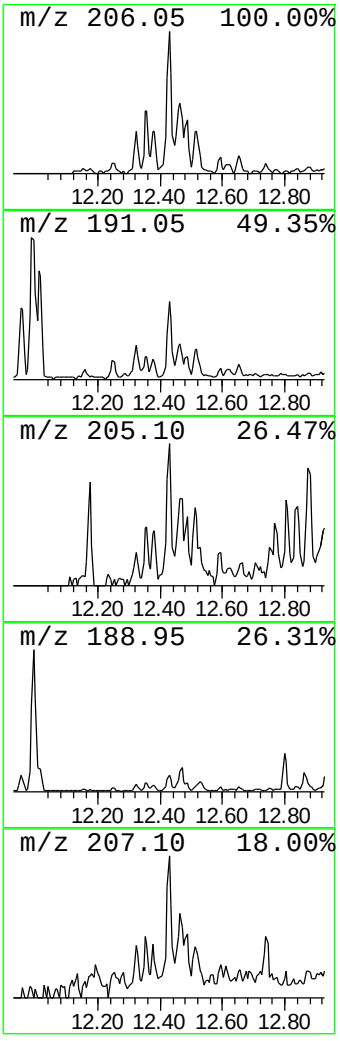
Peak Number 8 Phenanthrene, 1,7-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.43	4.76 ng	106863	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	90
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90





Library Search Compound Report

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ClientSampleId : CL-02-082619

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

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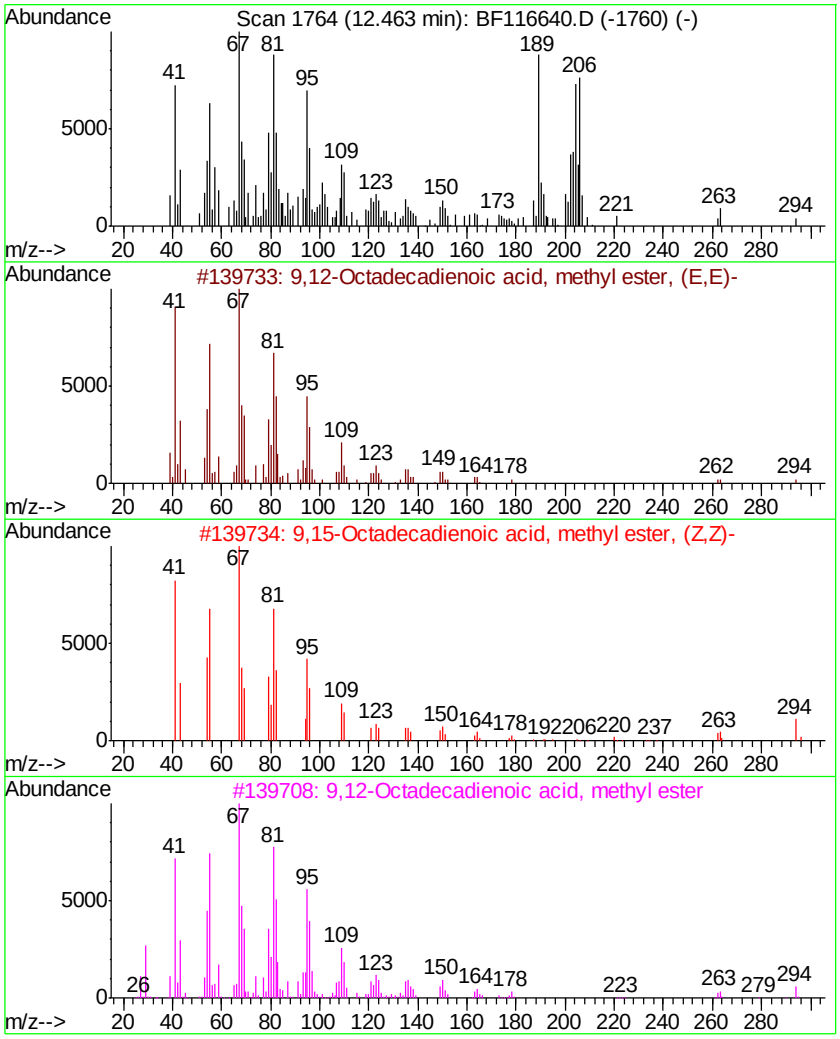
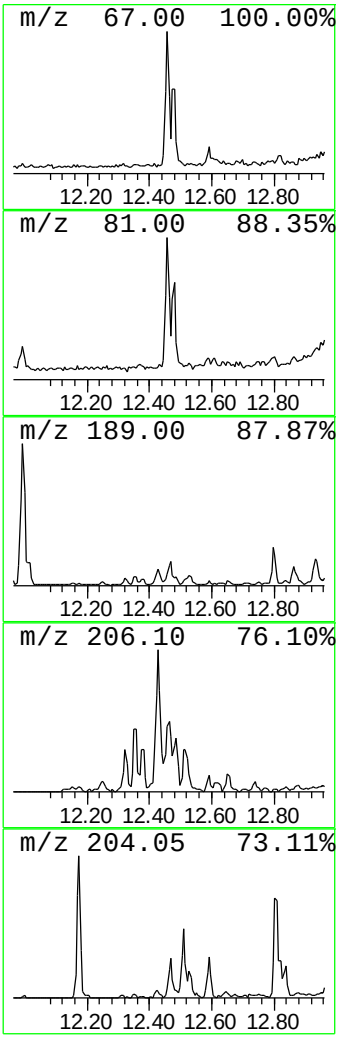
Peak Number 9 9,12-Octadecadienoic acid, ... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	8.94 ng	200458	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,12-Octadecadienoic acid, methy...	294	C19H34O2	002566-97-4	99
2	9,15-Octadecadienoic acid, methy...	294	C19H34O2	017309-05-6	99
3	9,12-Octadecadienoic acid, methy...	294	C19H34O2	002462-85-3	93
4	11,14-Octadecadienoic acid, meth...	294	C19H34O2	056554-61-1	93
5	13-Tetradece-11-yn-1-ol	208	C14H24O	1000131-00-4	91





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Misc :
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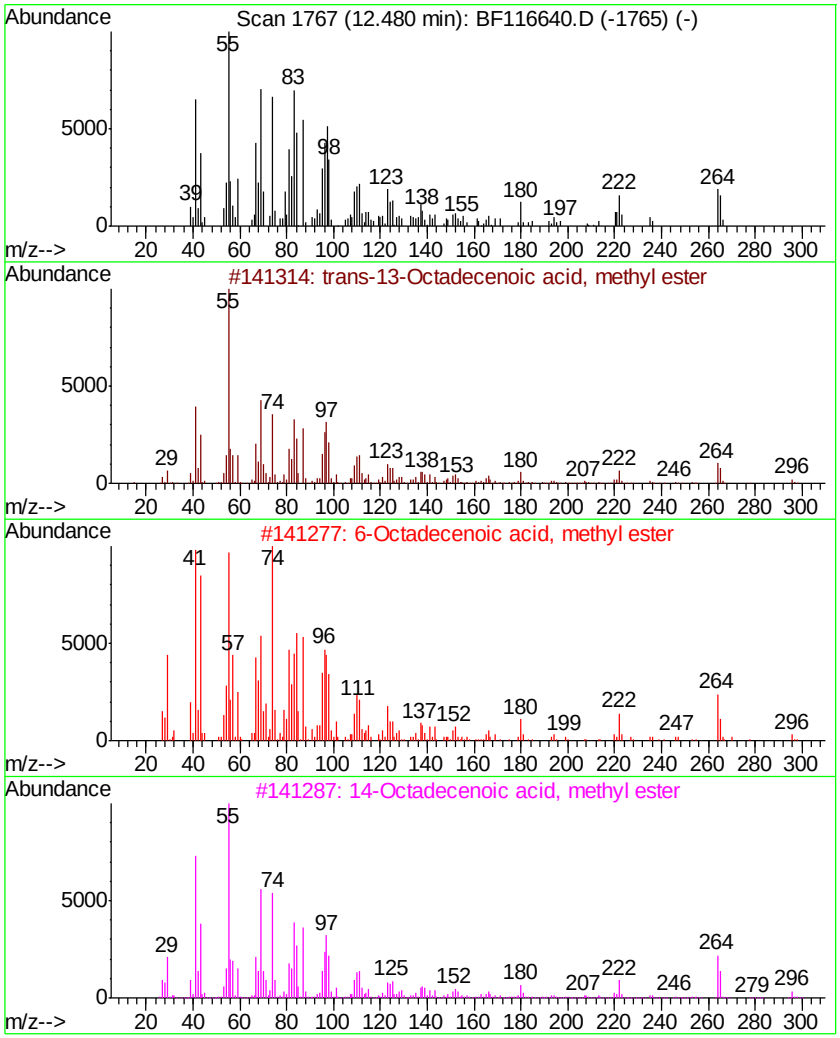
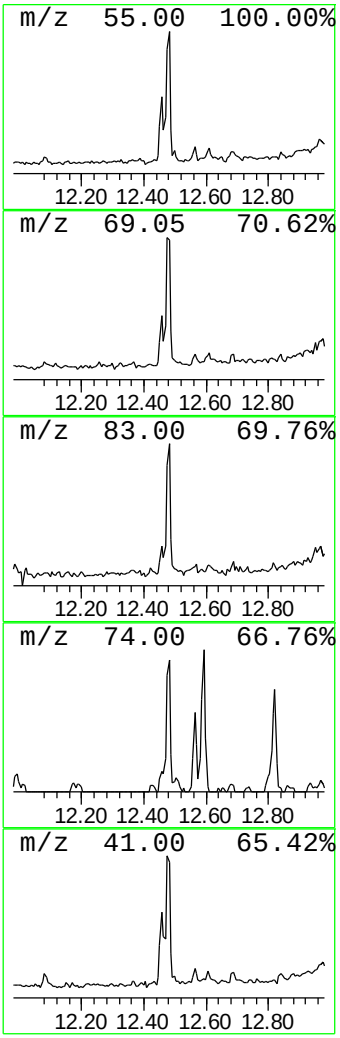
Peak Number 10 trans-13-Octadecenoic acid,... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.48	10.22 ng	229335	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans-13-Octadecenoic acid, meth...	296	C19H36O2	1000333-61-3	94
2	6-Octadecenoic acid, methyl ester	296	C19H36O2	052355-31-4	91
3	14-Octadecenoic acid, methyl ester	296	C19H36O2	056554-48-4	91
4	10-Octadecenoic acid, methyl ester	296	C19H36O2	013481-95-3	91
5	9-Octadecenoic acid (Z)-, methyl...	296	C19H36O2	000112-62-9	91





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Sample : K4088-08 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

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ClientSampleId : CL-02-082619

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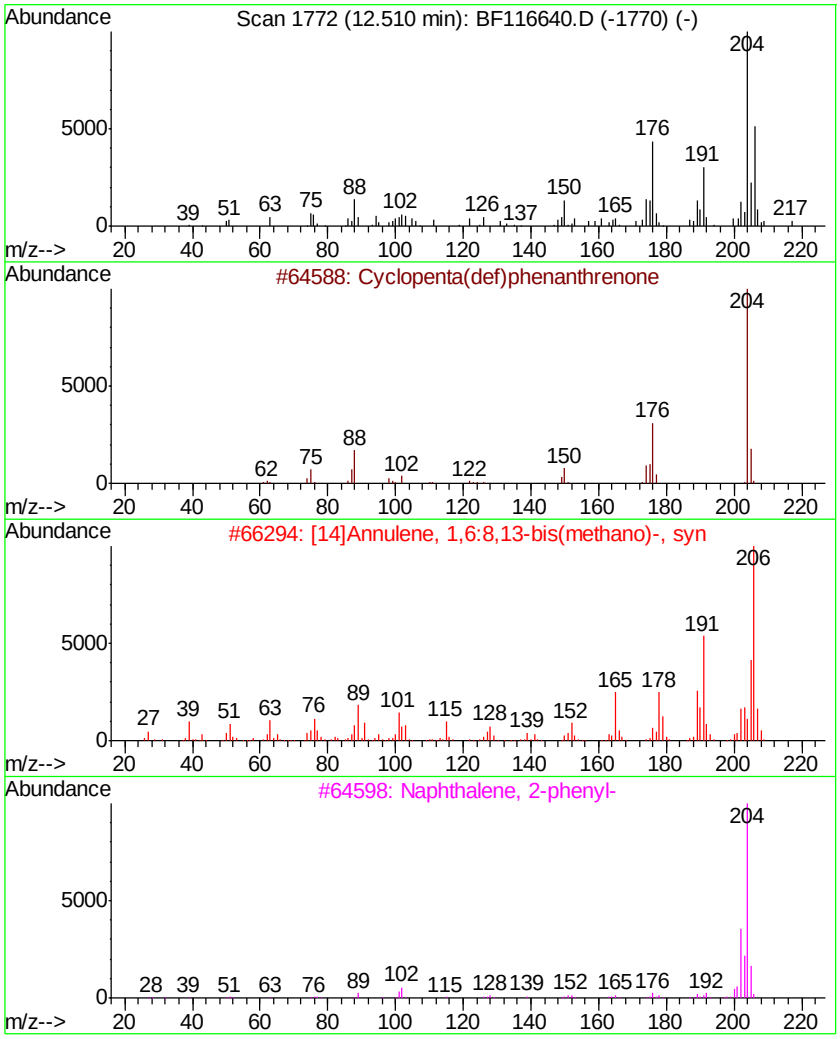
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

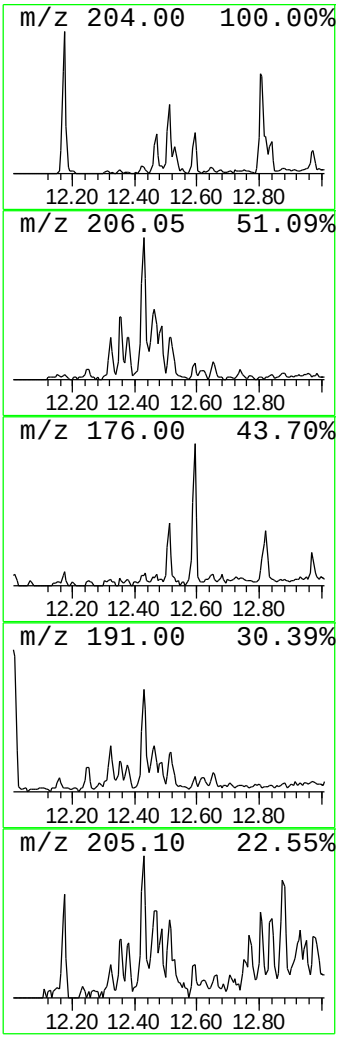
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 11 Cyclopenta(def)phenanthrenone Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.51	3.58 ng	80282	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	60
2	[14]Annulene, 1,6:8,13-bis(metha...	206	C16H14	085385-68-8	42
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	38
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	38
5	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	38





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Misc :
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ClientSampleId : CL-02-082619

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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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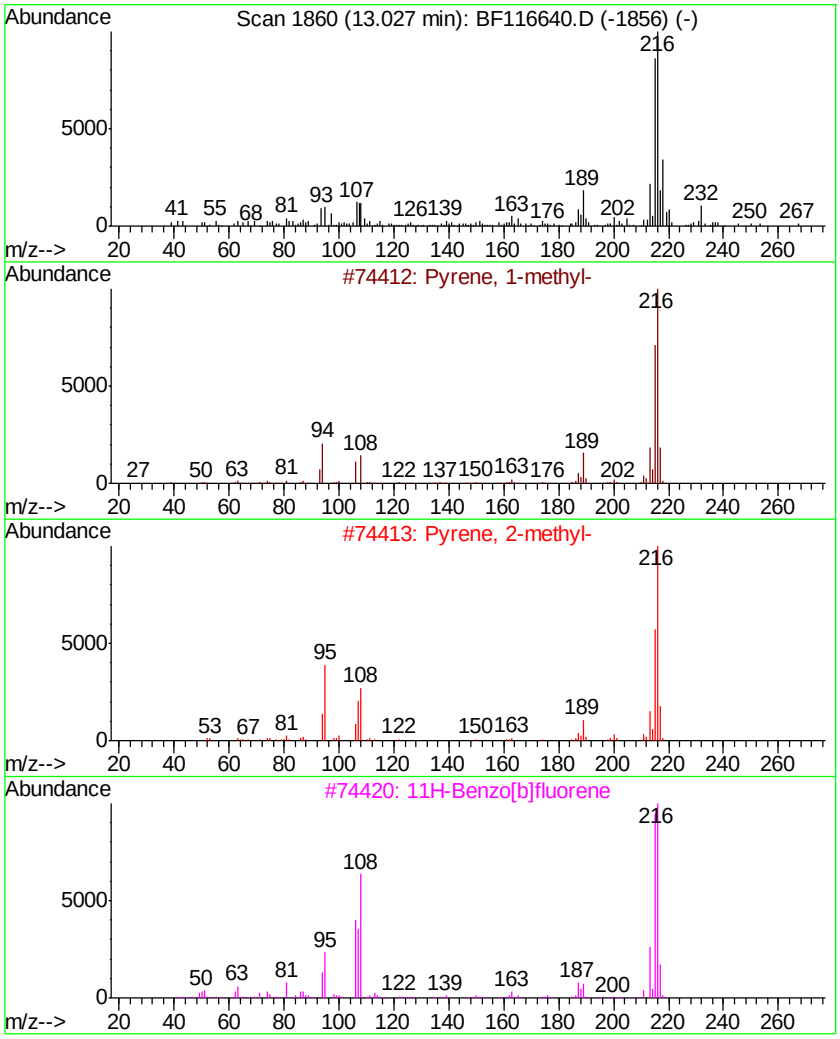
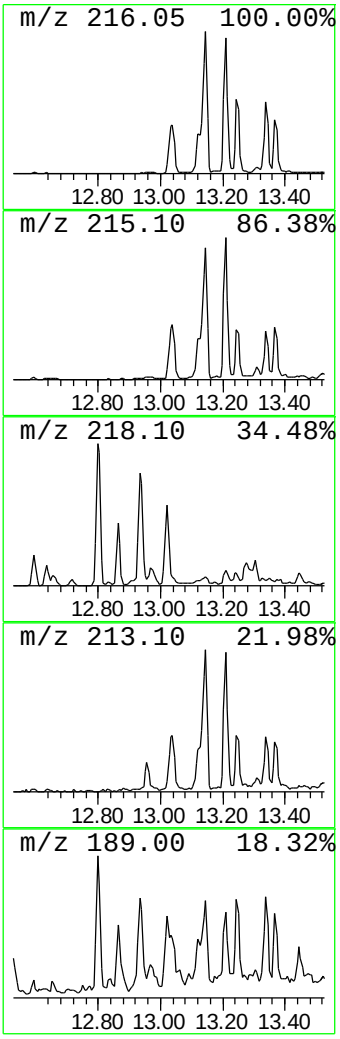
Peak Number 12 Pyrene, 1-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.03	4.22 ng	352715	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	97
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	92
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	81
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	76
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	76





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Sample : K4088-08 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-082619

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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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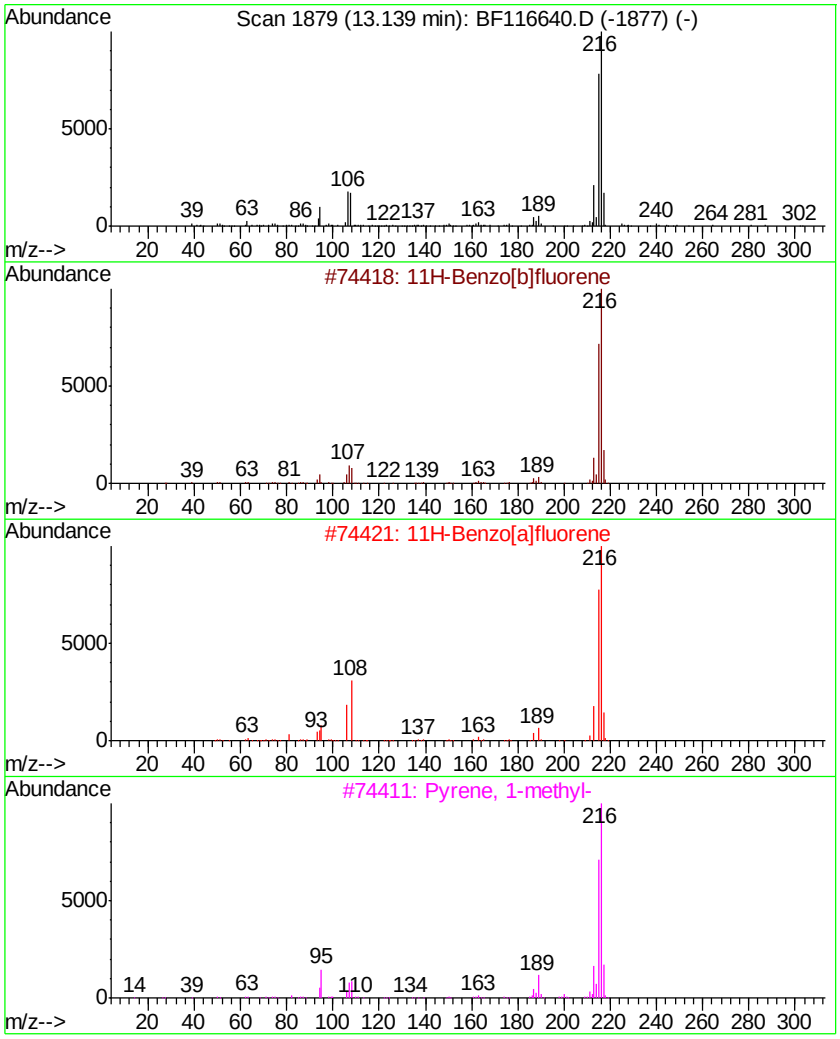
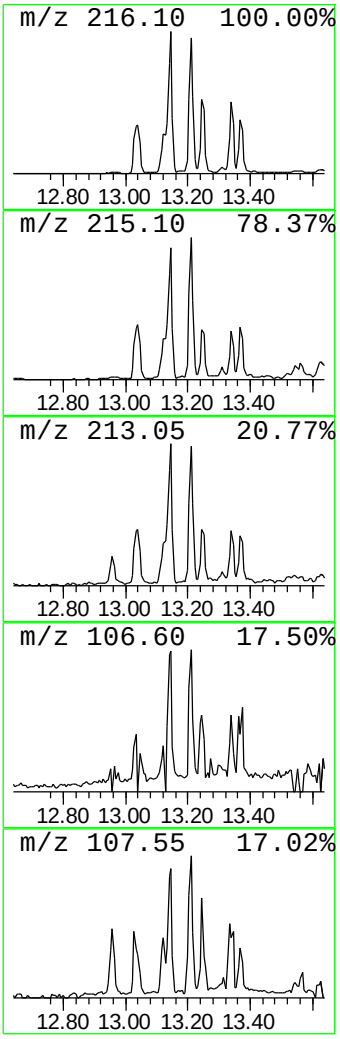
Peak Number 13 11H-Benzo[b]fluorene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.14	4.25 ng	355777	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	80
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	72
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	64





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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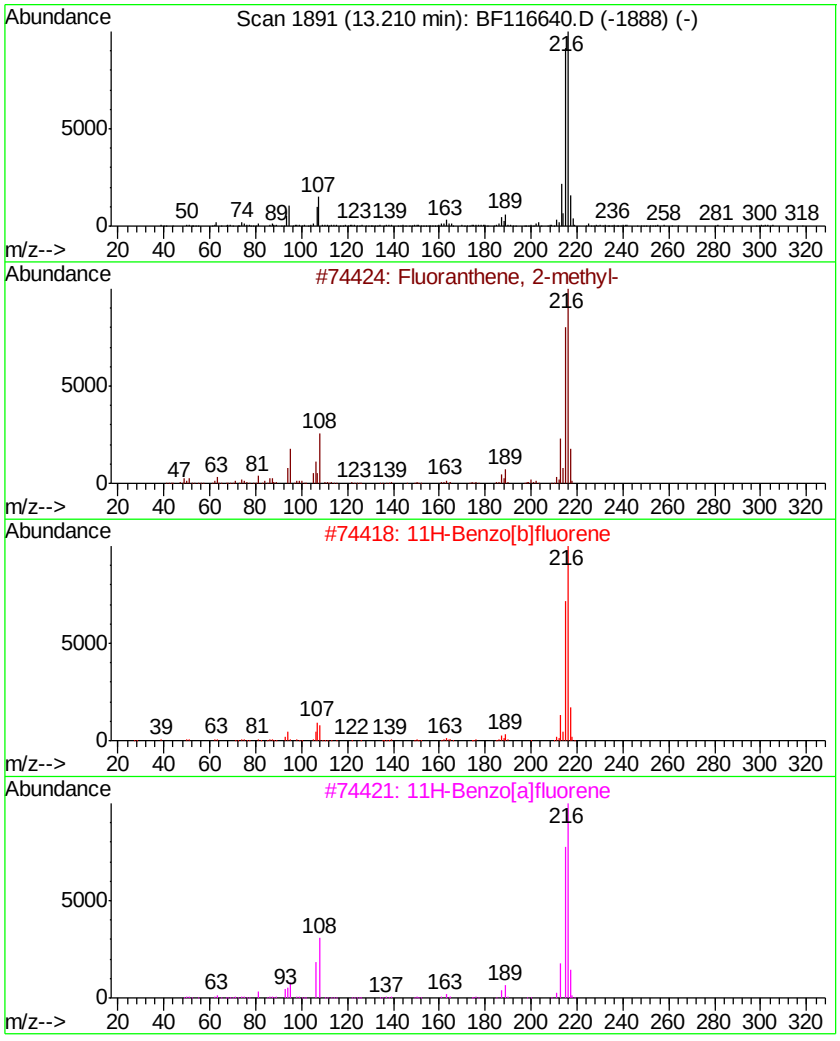
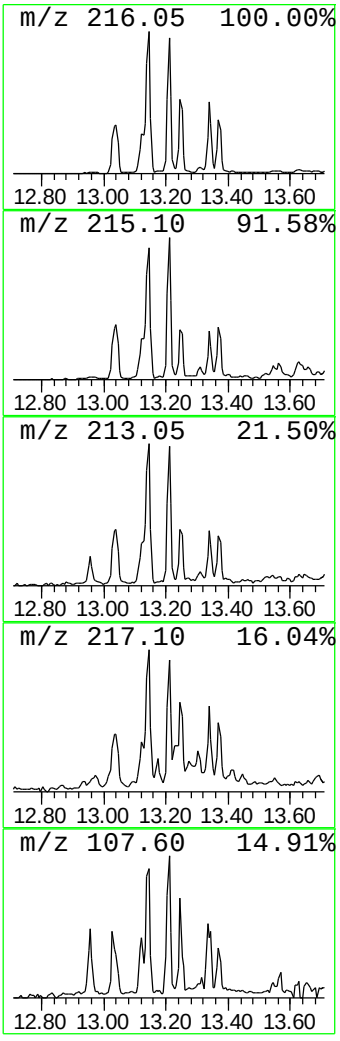
Peak Number 14 Fluoranthene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.21	3.79 ng	317245	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	94
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81





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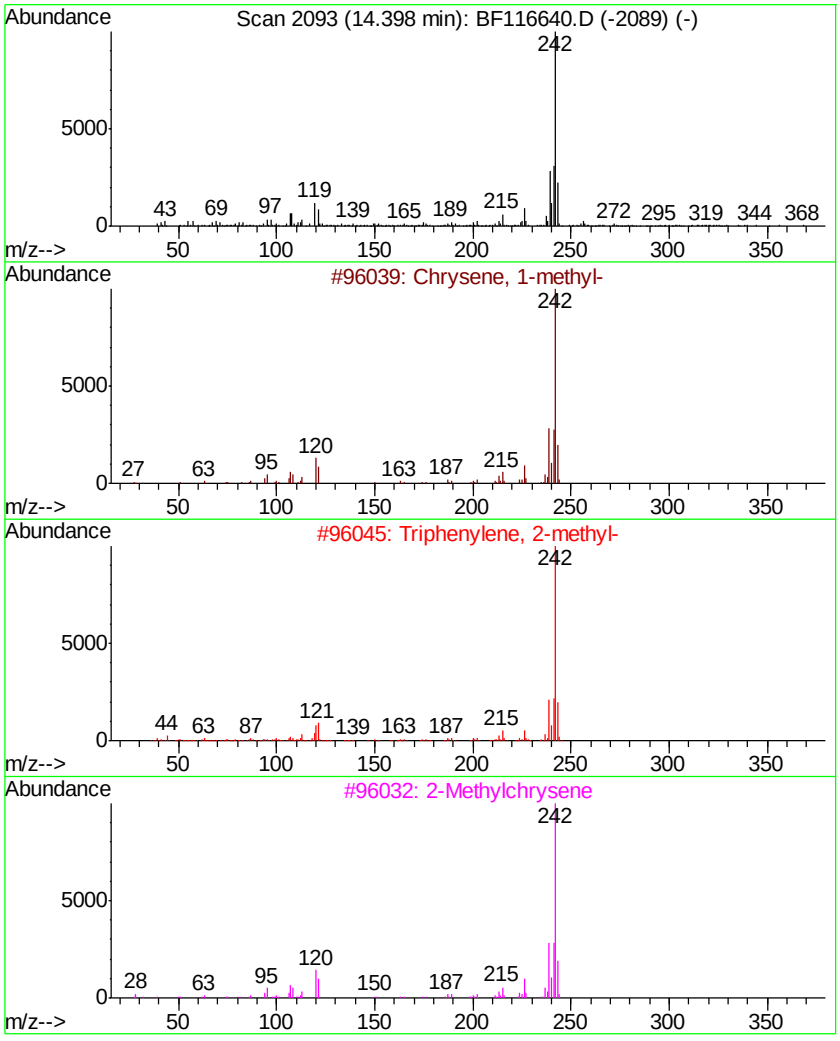
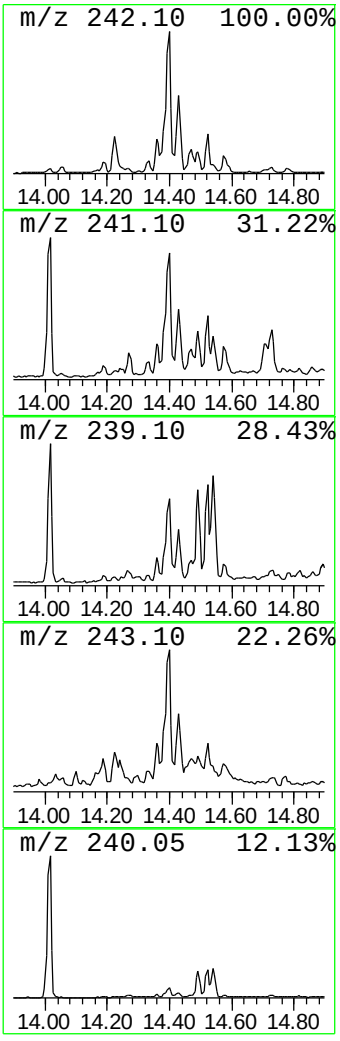
Peak Number 15 Chrysene, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.40	6.52 ng	544985	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chrysene, 1-methyl-	242	C19H14	003351-28-8	95
2	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	94
3	2-Methylchrysene	242	C19H14	003351-32-4	94
4	Chrysene, 5-methyl-	242	C19H14	003697-24-3	93
5	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	93





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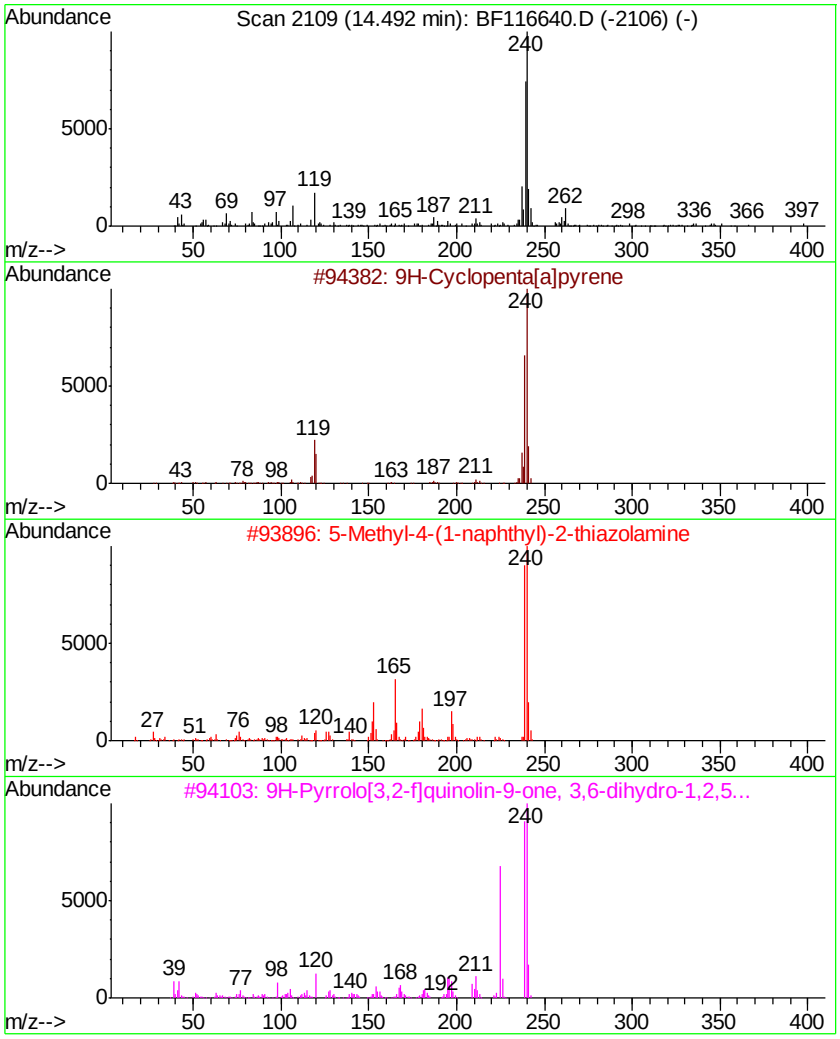
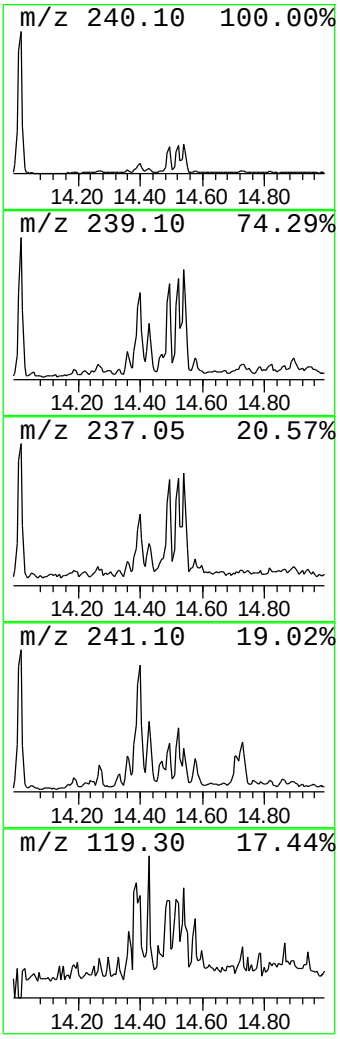
Peak Number 16 9H-Cyclopenta[a]pyrene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.49	3.63 ng	303816	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Cyclopenta[a]pyrene	240	C19H12	050861-05-7	81
2	5-Methyl-4-(1-naphthyl)-2-thiazo...	240	C14H12N2S	107411-05-2	50
3	9H-Pyrrolo[3,2-f]quinolin-9-one,...	240	C15H16N2O	1000319-84-1	49
4	Pyrrolo[2,3-f]quinolin-7-one, 2,...	240	C15H16N2O	1000302-73-0	38
5	4-(6-Methyl-2-benzothiazolyl)ben...	240	C14H12N2S	1000341-55-6	27





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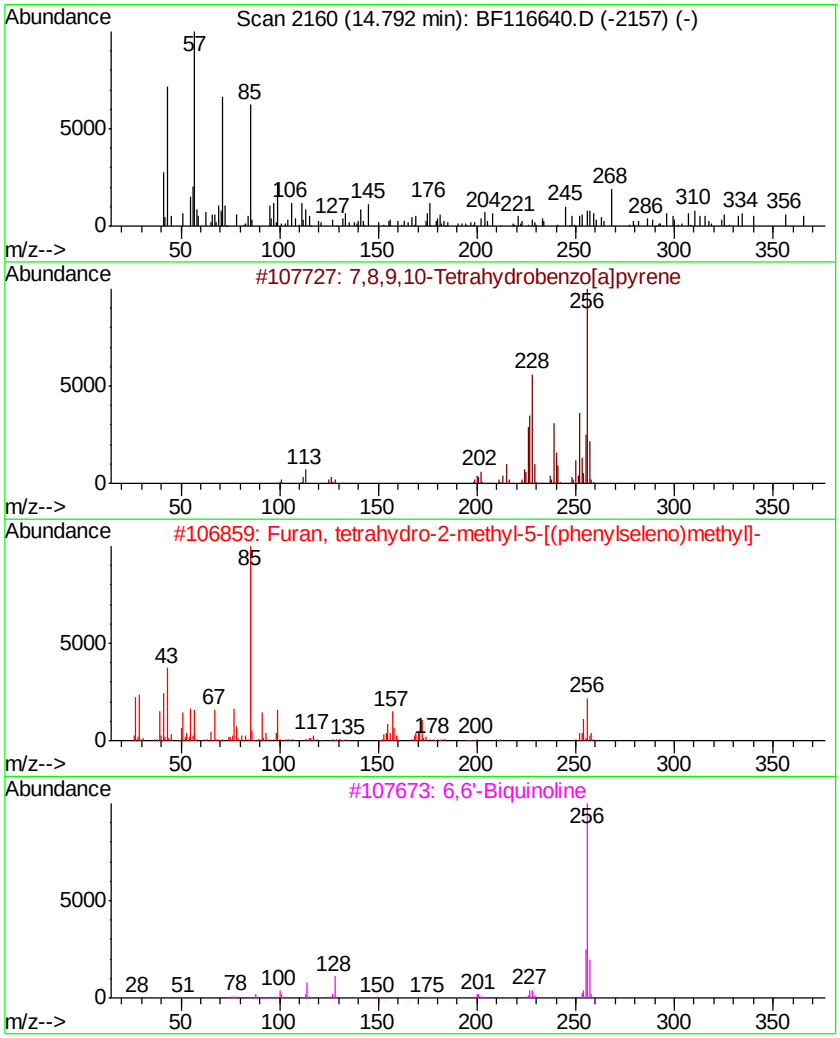
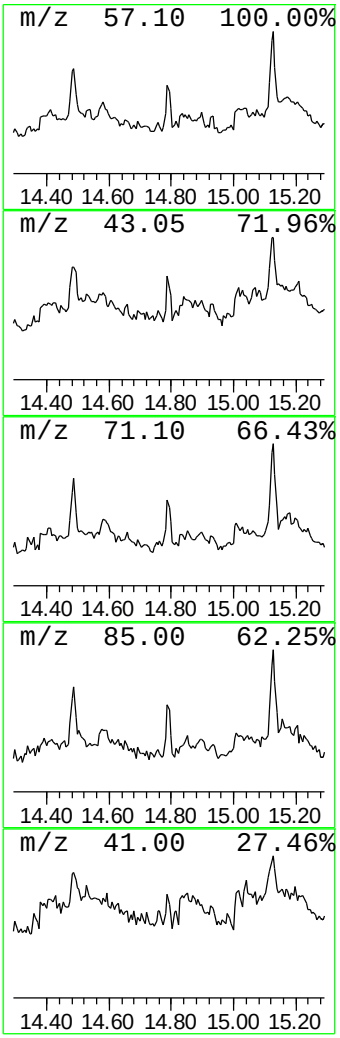
Peak Number 17 7,8,9,10-Tetrahydrobenzo[a]... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.79	4.57 ng	77576	Perylene-d12	15.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7,8,9,10-Tetrahydrobenzo[a]pyrene	256	C20H16	017750-93-5	53
2	Furan, tetrahydro-2-methyl-5-[(p...	256	C12H16OSe	114524-25-3	27
3	6,6'-Biquinoline	256	C18H12N2	000612-79-3	22
4	1H-Pyrazole, 1-(4-chlorophenyl)-...	256	C15H13ClN2	002535-78-6	22
5	Propenone, 3-(3-chlorophenyl)-1-...	256	C16H13ClO	052182-29-3	22





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116640.D
Acq On : 29 Aug 2019 2:51
Operator : HP/JU
Sample : K4088-08 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-082619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.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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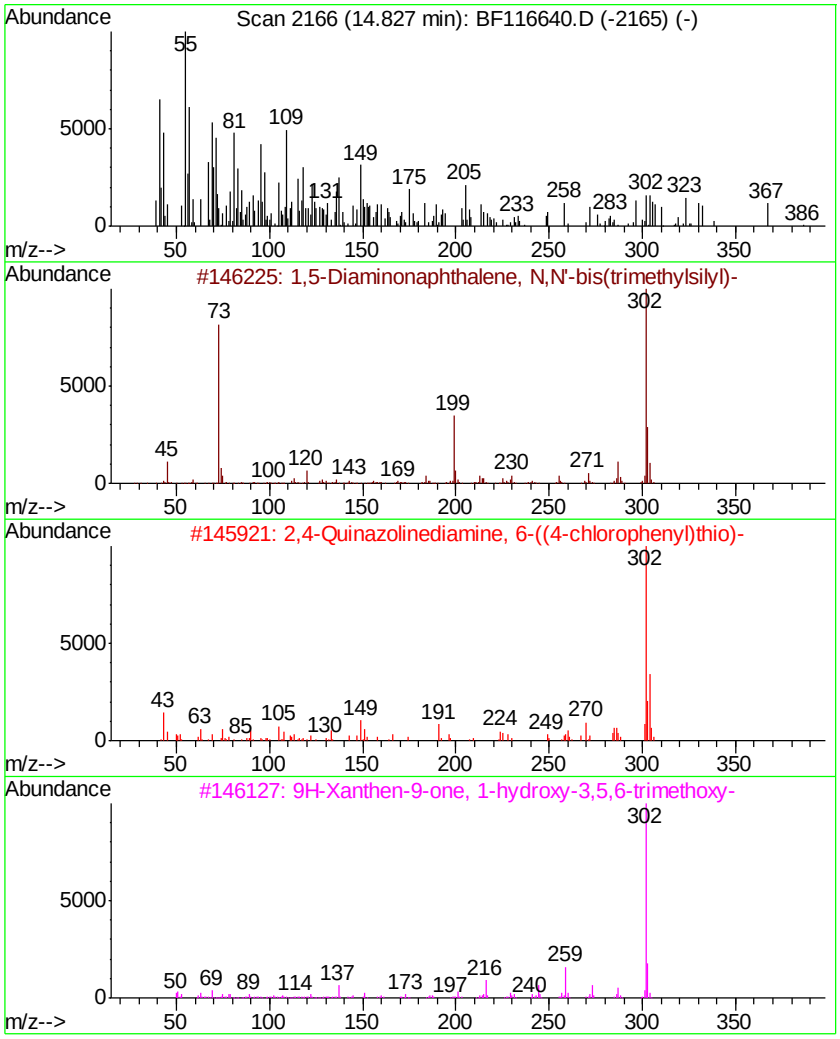
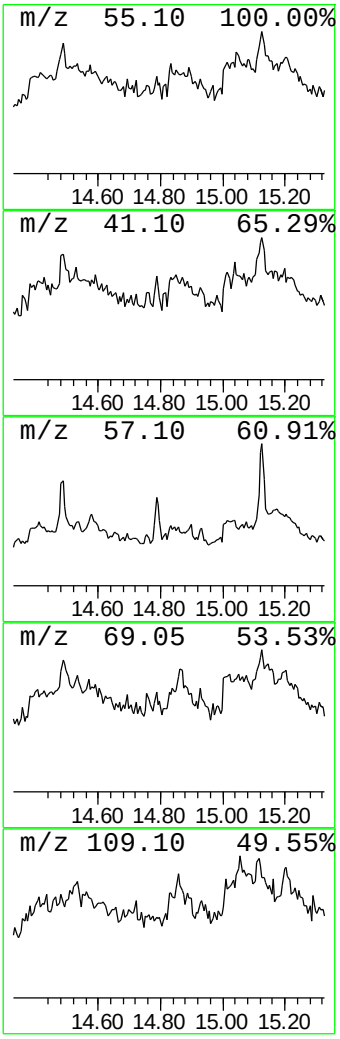
Peak Number 18 unknown14.83 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	4.46 ng	75614	Perylene-d12	15.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,5-Diaminonaphthalene, N,N'-bis...	302	C16H26N2Si2	1000364-87-4	41
2	2,4-Quinazolinediamine, 6-((4-ch...	302	C14H11ClN4S	051124-29-9	41
3	9H-Xanthen-9-one, 1-hydroxy-3,5,...	302	C16H14O6	004090-62-4	38
4	Ethanesulfonic acid (5-acetyl-10...	344	C18H20N2O3S	1000275-49-3	30
5	Morin	302	C15H10O7	000480-16-0	30





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116640.D
Acq On : 29 Aug 2019 2:51
Operator : HP/JU
Sample : K4088-08 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-082619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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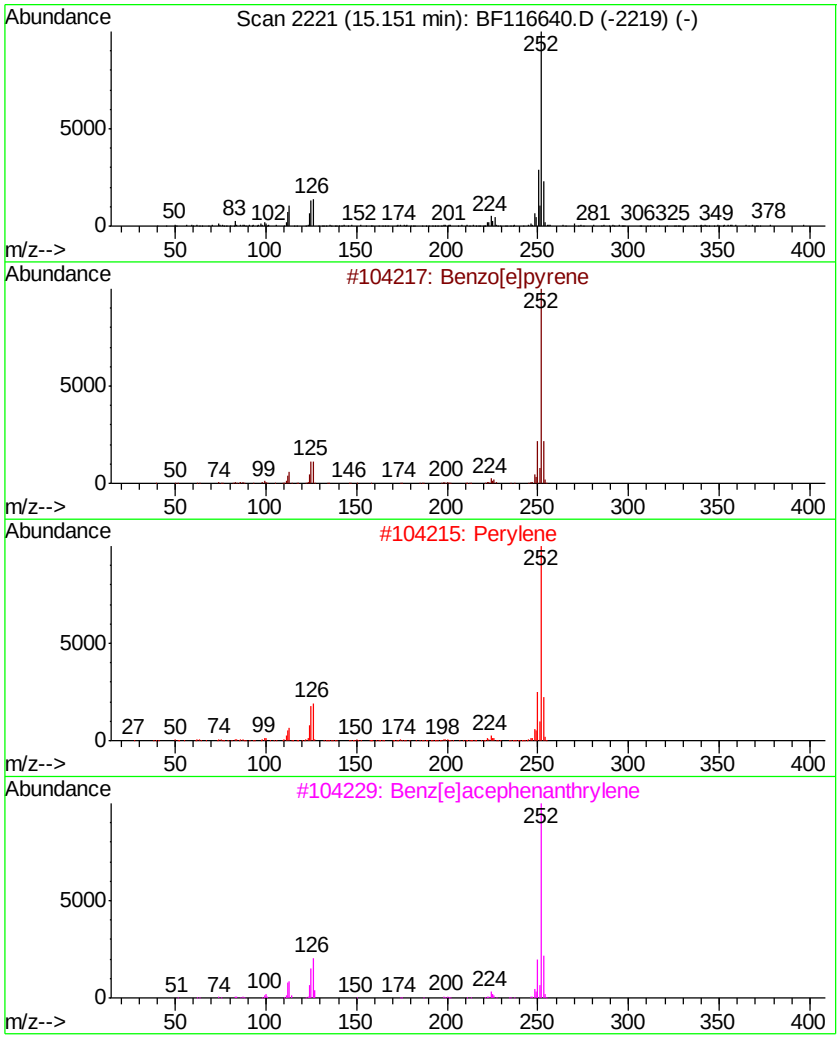
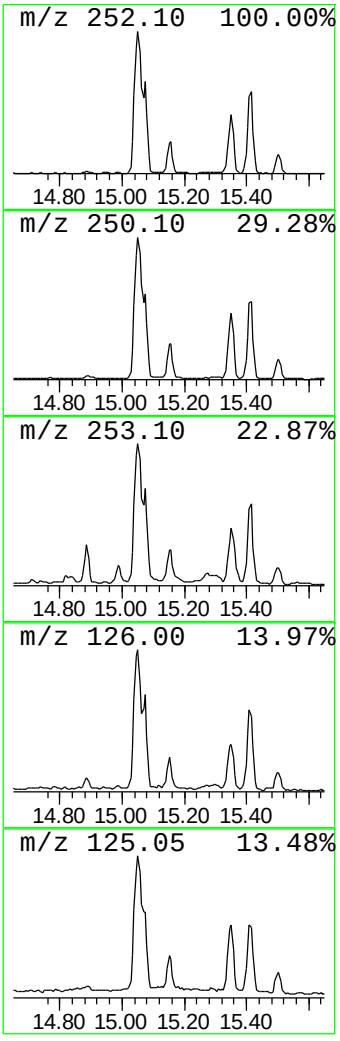
Peak Number 19 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.15	16.67 ng	282736	Perylene-d12	15.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	95
2	Perylene	252	C20H12	000198-55-0	94
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	92
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116640.D
Acq On : 29 Aug 2019 2:51
Operator : HP/JU
Sample : K4088-08 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-082619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.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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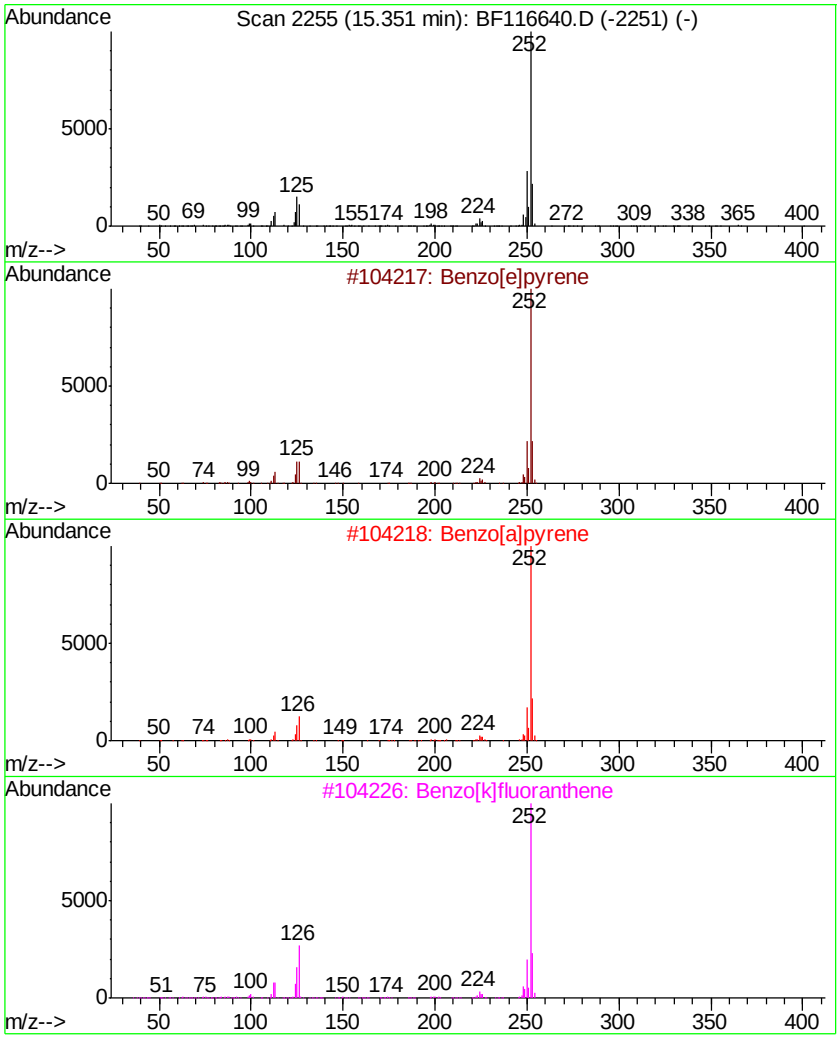
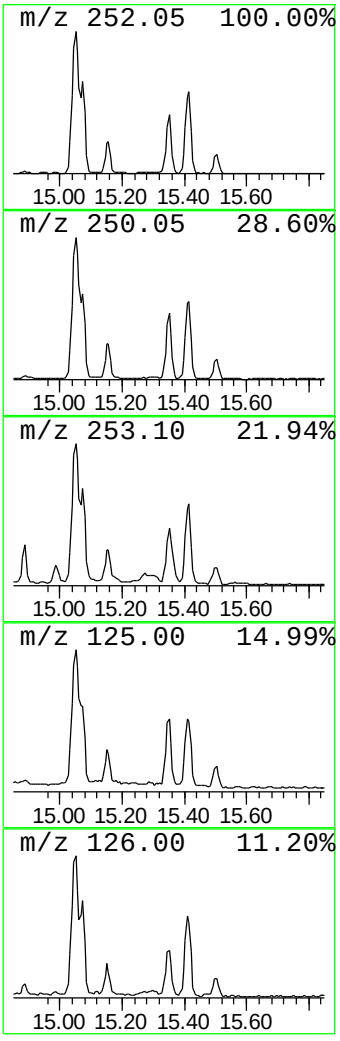
Peak Number 20 Perylene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.35	31.57 ng	535610	Perylene-d12	15.47

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





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF082819\
Data File : BF116640.D
Acq On : 29 Aug 2019 2:51
Operator : HP/JU
Sample : K4088-08 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-082619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.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
unknown6.63	6.63	36.1	ng	812958	1	6.86	450938	20.0
Anthracene, 2-met...	11.88	6.7	ng	149273	4	11.38	448582	20.0
Phenanthrene, 2-m...	11.90	9.7	ng	217459	4	11.38	448582	20.0
4H-Cyclopenta[def...	11.99	12.7	ng	284399	4	11.38	448582	20.0
1H-Indene, 2-phenyl-	12.01	3.7	ng	82586	4	11.38	448582	20.0
Naphthalene, 2-ph...	12.17	4.2	ng	93067	4	11.38	448582	20.0
Phenanthrene, 1,7...	12.43	4.8	ng	106863	4	11.38	448582	20.0
9,12-Octadecadien...	12.46	8.9	ng	200458	4	11.38	448582	20.0
trans-13-Octadece...	12.48	10.2	ng	229335	4	11.38	448582	20.0
Cyclopenta(def)ph...	12.51	3.6	ng	80282	4	11.38	448582	20.0
Pyrene, 1-methyl-	13.03	4.2	ng	352715	5	14.02	1672450	20.0
11H-Benzo[b]fluorene	13.14	4.3	ng	355777	5	14.02	1672450	20.0
Fluoranthene, 2-m...	13.21	3.8	ng	317245	5	14.02	1672450	20.0
Chrysene, 1-methyl-	14.40	6.5	ng	544985	5	14.02	1672450	20.0
9H-Cyclopenta[a]p...	14.49	3.6	ng	303816	5	14.02	1672450	20.0
7,8,9,10-Tetrahyd...	14.79	4.6	ng	77576	6	15.47	339289	20.0
unknown14.83	14.83	4.5	ng	75614	6	15.47	339289	20.0
Benzo[e]pyrene	15.15	16.7	ng	282736	6	15.47	339289	20.0
Perylene	15.35	31.6	ng	535610	6	15.47	339289	20.0