LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011119\
Data File : BF112023.D
Acq On : 11 Jan 2019 18:50
Operator : JU/SJ
Sample : K1011-01 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-011019-A

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-BF010719.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	2.122	4	6	15	rVB3	40076	54492	1.65%	0.145%
2	5.075	504	508	514	rBV	61337	63478	1.92%	0.169%
3	5.498	577	580	598	rVB	1095485	1092559	33.01%	2.906%
4	6.510	748	752	766	rBV	1359136	1149769	34.74%	3.059%
5	6.645	771	775	781	rBV	1395201	1155463	34.91%	3.074%
6	6.869	810	813	817	rBV	723648	645868	19.52%	1.718%
7	7.028	836	840	844	rBV	1107605	883209	26.69%	2.350%
8	7.428	904	908	911	rBV	851877	677602	20.47%	1.803%
9	8.151	1026	1031	1035	rBV	867517	814205	24.60%	2.166%
10	9.228	1210	1214	1217	rBV	1527161	1192355	36.03%	3.172%
11	9.345	1230	1234	1237	rVB	124985	107097	3.24%	0.285%
12	9.616	1277	1280	1285	rVB	305957	234395	7.08%	0.624%
13	9.910	1326	1330	1333	rBV	970043	797826	24.11%	2.122%
14	9.939	1333	1335	1339	rVB	91227	74789	2.26%	0.199%
15	10.110	1360	1364	1368	rBV	52942	51757	1.56%	0.138%
16	10.457	1420	1423	1426	rBV	93213	81607	2.47%	0.217%
17	10.698	1460	1464	1471	rBV	914245	759161	22.94%	2.020%
18	10.822	1476	1485	1489	rBV5	44946	67841	2.05%	0.180%
19	11.004	1511	1516	1519	rBV3	38160	42429	1.28%	0.113%
20	11.133	1534	1538	1540	rBV3	37112	40185	1.21%	0.107%
21	11.157	1540	1542	1546	rVV	41494	44070	1.33%	0.117%
22	11.198	1546	1549	1553	rVV2	39644	38486	1.16%	0.102%
23	11.245	1553	1557	1563	rVV4	40951	82723	2.50%	0.220%
24	11.292	1563	1565	1570	rVB	68710	65302	1.97%	0.174%
25	11.398	1579	1583	1585	rBV	920880	864736	26.13%	2.300%
26	11.422	1585	1587	1590	rVV	973810	740383	22.37%	1.970%
27	11.469	1592	1595	1598	rVV	354504	286060	8.64%	0.761%
28	11.622	1616	1621	1623	rBV	54181	58866	1.78%	0.157%
29	11.686	1630	1632	1635	rVB2	65791	54356	1.64%	0.145%
30	11.727	1637	1639	1644	rVB2	36652	36592	1.11%	0.097%
31	11.786	1645	1649	1651	rVB	89548	79494	2.40%	0.211%
32	11.898	1663	1668	1670	rBV	158384	148899	4.50%	0.396%
33	11.927	1670	1673	1677	rVV	246328	236337	7.14%	0.629%
34	11.974	1677	1681	1684	rVV	127801	120396	3.64%	0.320%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011119\
Data File : BF112023.D
Acq On : 11 Jan 2019 18:50
Operator : JU/SJ
Sample : K1011-01 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-011019-A

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-BF010719.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.010	1684	1687	1690	rVV	397475	427844	12.93%	1.138%
36	12.033	1690	1691	1695	rVB	128861	67549	2.04%	0.180%
37	12.192	1715	1718	1720	rBV	174665	144026	4.35%	0.383%
38	12.216	1720	1722	1725	rVB2	72480	61444	1.86%	0.163%
39	12.339	1741	1743	1746	rVB	51139	45804	1.38%	0.122%
40	12.374	1746	1749	1751	rBV	61062	55521	1.68%	0.148%
41	12.398	1751	1753	1757	rVB	58125	45884	1.39%	0.122%
42	12.451	1757	1762	1763	rBV	130354	149834	4.53%	0.399%
43	12.469	1763	1765	1767	rVV	288048	278205	8.41%	0.740%
44	12.492	1767	1769	1774	rVB	377018	323753	9.78%	0.861%
45	12.533	1774	1776	1781	rVB	169575	164061	4.96%	0.436%
46	12.616	1786	1790	1794	rBV	3109517	3153835	95.30%	8.390%
47	12.674	1798	1800	1803	rVB2	58343	48044	1.45%	0.128%
48	12.733	1807	1810	1812	rBV3	38314	45885	1.39%	0.122%
49	12.763	1812	1815	1819	rVB	104234	95728	2.89%	0.255%
50	12.845	1823	1829	1834	rBV2	2643114	3309540	100.00%	8.804%
51	12.886	1834	1836	1842	rVB2	114911	153682	4.64%	0.409%
52	12.980	1845	1852	1855	rBV2	1462424	1464614	44.25%	3.896%
53	13.063	1860	1866	1869	rBV2	187569	318893	9.64%	0.848%
54	13.116	1873	1875	1877	rBV2	41048	40327	1.22%	0.107%
55	13.145	1877	1880	1881	rBV2	140287	144567	4.37%	0.385%
56	13.168	1881	1884	1887	rVB	433085	391931	11.84%	1.043%
57	13.210	1887	1891	1892	rBV3	46572	58215	1.76%	0.155%
58	13.233	1892	1895	1898	rVB	280529	224591	6.79%	0.597%
59	13.274	1898	1902	1904	rBV2	271374	306115	9.25%	0.814%
60	13.298	1904	1906	1909	rVB	89203	85964	2.60%	0.229%
61	13.327	1909	1911	1915	rBV2	72481	62516	1.89%	0.166%
62	13.363	1915	1917	1920	rBV	111604	100608	3.04%	0.268%
63	13.398	1920	1923	1926	rBV2	141285	153539	4.64%	0.408%
64	13.474	1934	1936	1939	rVB3	61179	58286	1.76%	0.155%
65	13.551	1946	1949	1951	rBV3	79982	93738	2.83%	0.249%
66	13.651	1963	1966	1967	rBV2	52079	45880	1.39%	0.122%
67	13.674	1967	1970	1974	rVB	198018	227122	6.86%	0.604%
68	13.786	1985	1989	1992	rBV2	270315	341741	10.33%	0.909%
69	13.816	1992	1994	1996	rVV	288455	244436	7.39%	0.650%
70	13.839	1996	1998	2002	rVV2	259665	343573	10.38%	0.914%
71	13.880	2002	2005	2012	rVB3	285629	367641	11.11%	0.978%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011119\
Data File : BF112023.D
Acq On : 11 Jan 2019 18:50
Operator : JU/SJ
Sample : K1011-01 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-011019-A

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-BF010719.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.957	2013	2018	2022	rBV	89119	140631	4.25%	0.374%
73	14.033	2024	2031	2035	rVV2	1752017	2872414	86.79%	7.641%
74	14.068	2035	2037	2043	rVB	1424007	1222142	36.93%	3.251%
75	14.145	2047	2050	2054	rVB	287148	271138	8.19%	0.721%
76	14.263	2066	2070	2073	rBV2	125156	162577	4.91%	0.432%
77	14.292	2073	2075	2078	rBV2	70920	69057	2.09%	0.184%
78	14.392	2089	2092	2093	rBV	87489	61974	1.87%	0.165%
79	14.427	2094	2098	2100	rBV	195638	200826	6.07%	0.534%
80	14.457	2101	2103	2106	rVB	93904	78201	2.36%	0.208%
81	14.504	2108	2111	2112	rBV2	135984	128405	3.88%	0.342%
82	14.551	2117	2119	2121	rBV	92161	64133	1.94%	0.171%
83	15.092	2206	2211	2214	rBV	1021204	1558632	47.10%	4.146%
84	15.151	2218	2221	2225	rBV3	113534	151068	4.56%	0.402%
85	15.198	2226	2229	2231	rVB	212120	186538	5.64%	0.496%
86	15.398	2259	2263	2268	rVB	544664	679422	20.53%	1.807%
87	15.457	2269	2273	2279	rVV	742275	963929	29.13%	2.564%
88	15.521	2280	2284	2287	rVV	437099	601326	18.17%	1.600%
89	15.551	2287	2289	2295	rVB	230548	264183	7.98%	0.703%
90	17.009	2532	2537	2545	rVB2	313904	612540	18.51%	1.629%
91	17.462	2609	2614	2621	rVB	231982	499924	15.11%	1.330%
92	17.515	2621	2623	2627	rBV4	54177	42730	1.29%	0.114%
93	17.609	2637	2639	2648	rVB9	72985	117892	3.56%	0.314%
94	18.633	2811	2813	2816	rBV3	48056	41054	1.24%	0.109%
95	18.815	2842	2844	2846	rBV2	43779	37949	1.15%	0.101%
96	18.839	2846	2848	2851	rBV3	64616	74519	2.25%	0.198%

Sum of corrected areas: 37590927

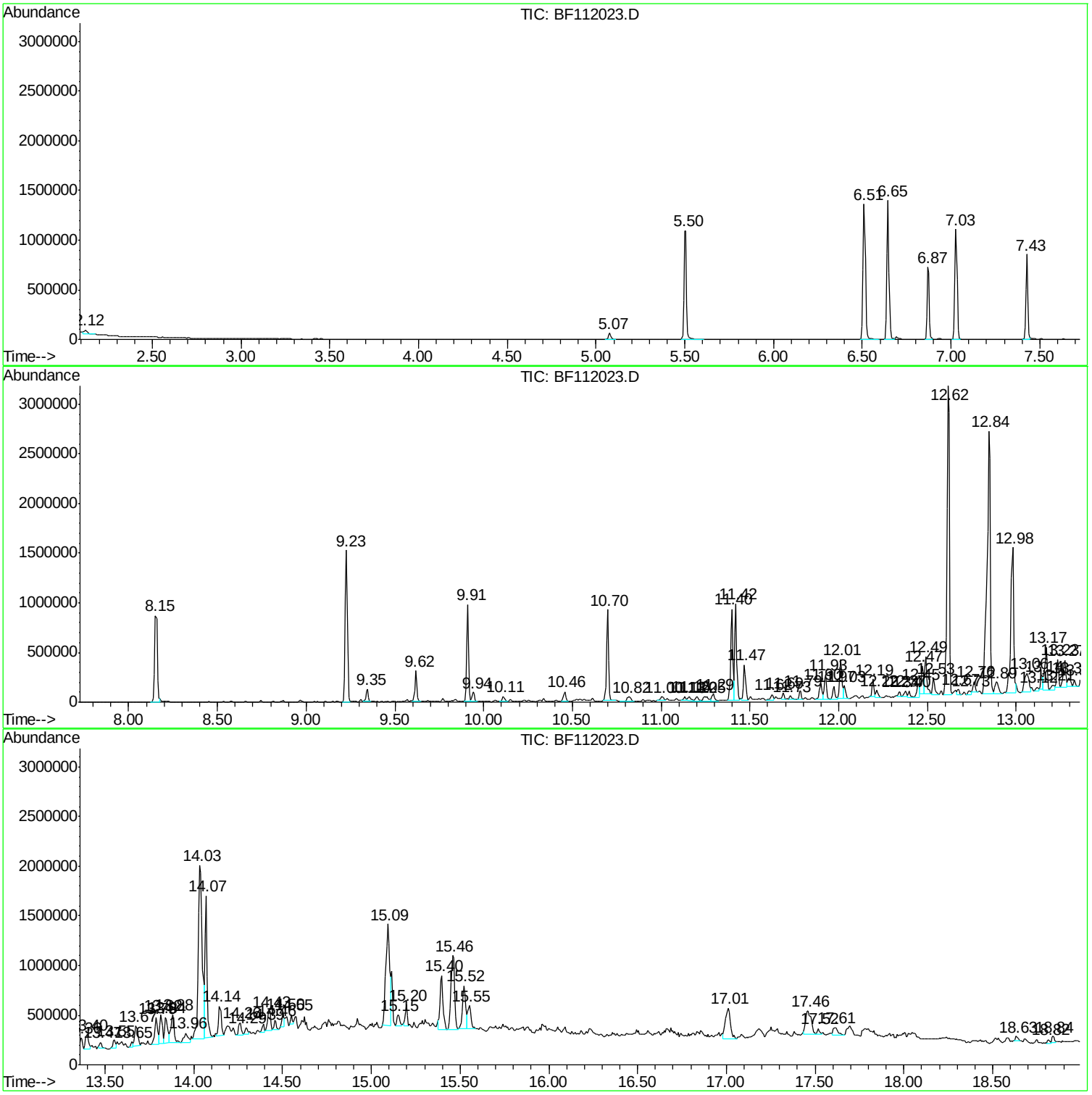
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011119\
Data File : BF112023.D
Acq On : 11 Jan 2019 18:50
Operator : JU/SJ
Sample : K1011-01 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-011019-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.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\BF011119\
Data File : BF112023.D
Acq On : 11 Jan 2019 18:50
Operator : JU/SJ
Sample : K1011-01 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-011019-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

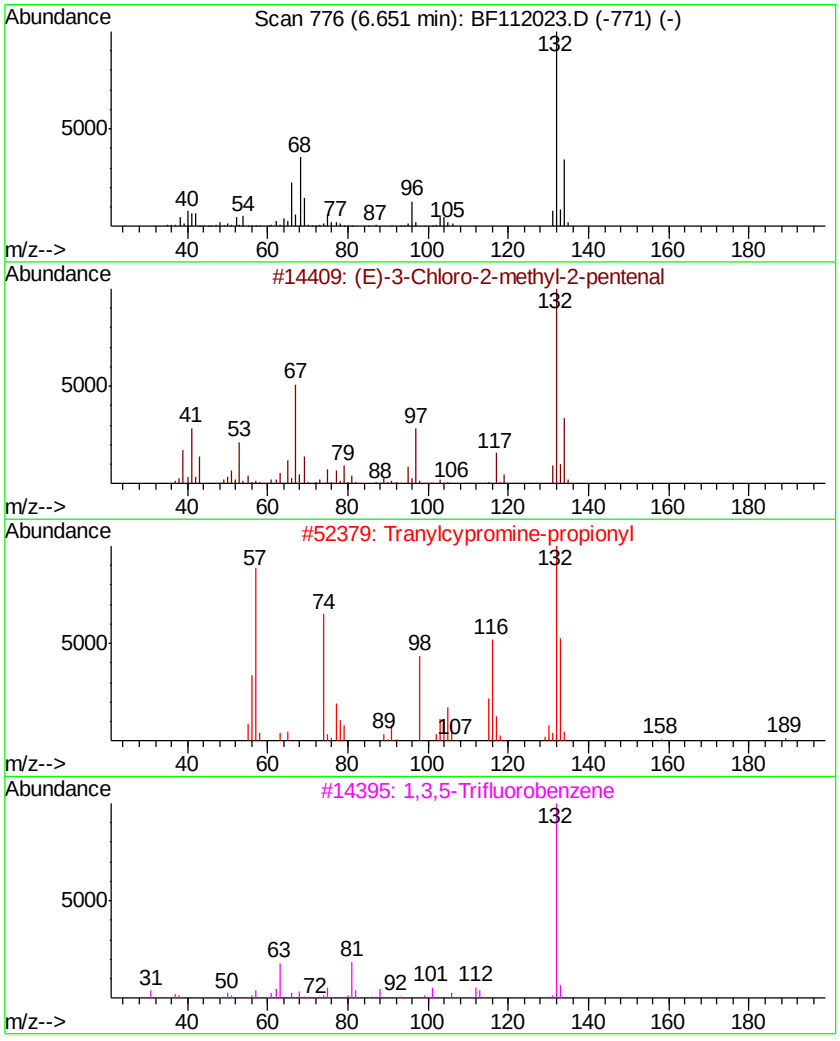
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

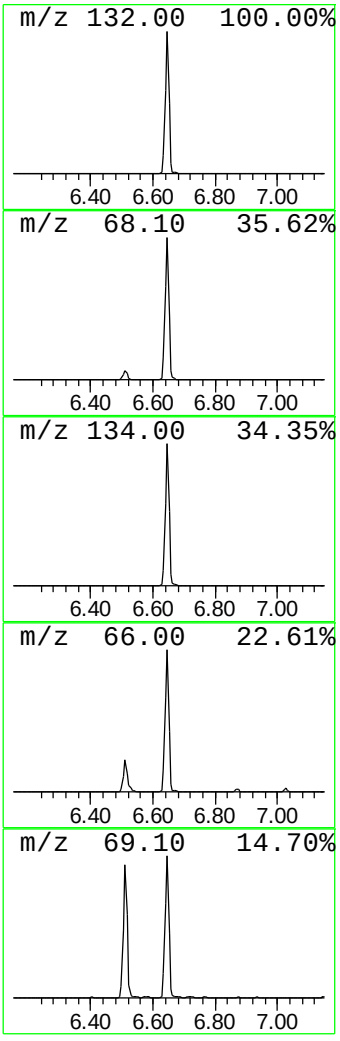
****

Peak Number 1 unknown6.65 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.65	35.78 ng	1155460	1,4-Dichlorobenzene-d4	6.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
2	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
3	1,3,5-Trifluorobenzene	132	C6H3F3	000372-38-3	9
4	Xenon	132	Xe	007440-63-3	9
5	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011119\
Data File : BF112023.D
Acq On : 11 Jan 2019 18:50
Operator : JU/SJ
Sample : K1011-01 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-011019-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

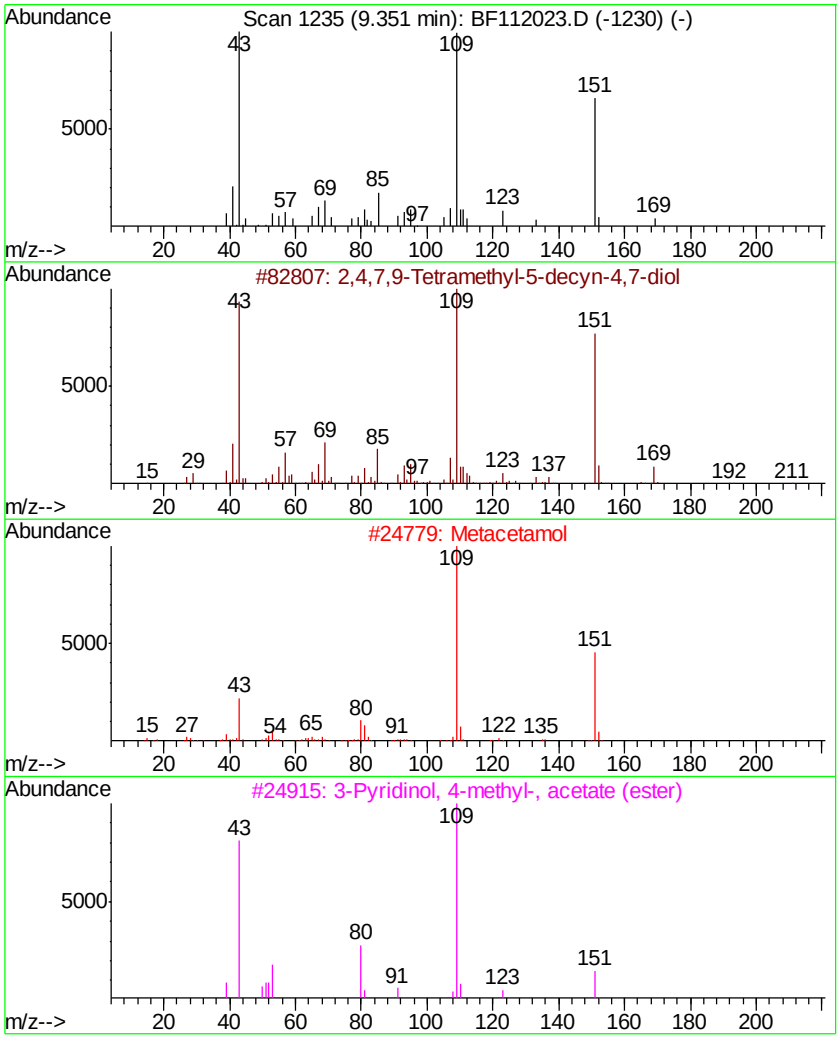
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

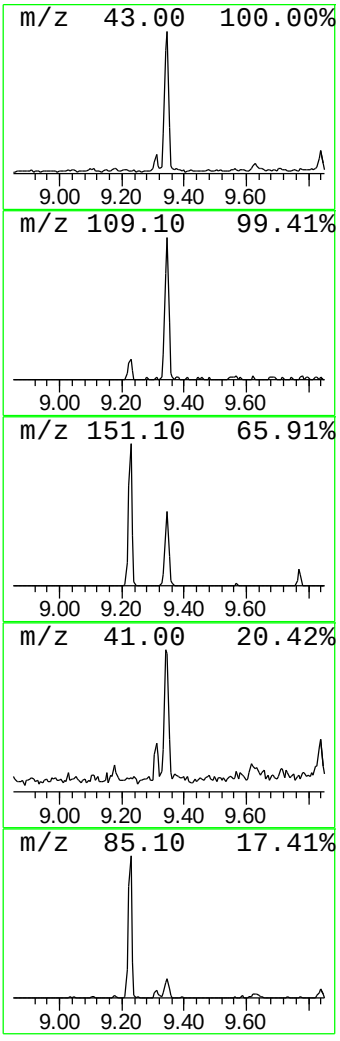
****

Peak Number 3 2,4,7,9-Tetramethyl-5-decyn... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.35	2.68 ng	107097	Acenaphthene-d10	9.91

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4,7,9-Tetramethyl-5-decyn-4,7-...	226	C14H26O2	000126-86-3	91
2	Metacetamol	151	C8H9NO2	000621-42-1	64
3	3-Pyridinol, 4-methyl-, acetate ...	151	C8H9NO2	001006-96-8	59
4	m-Isopropoxyaniline	151	C9H13NO	041406-00-2	59
5	1-(1,2,3-Trimethyl-cyclopent-2-e...	152	C10H16O	070987-81-4	46





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011119\
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Misc :
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Instrument : BNA_F
ClientSampleId : OR-02-011019-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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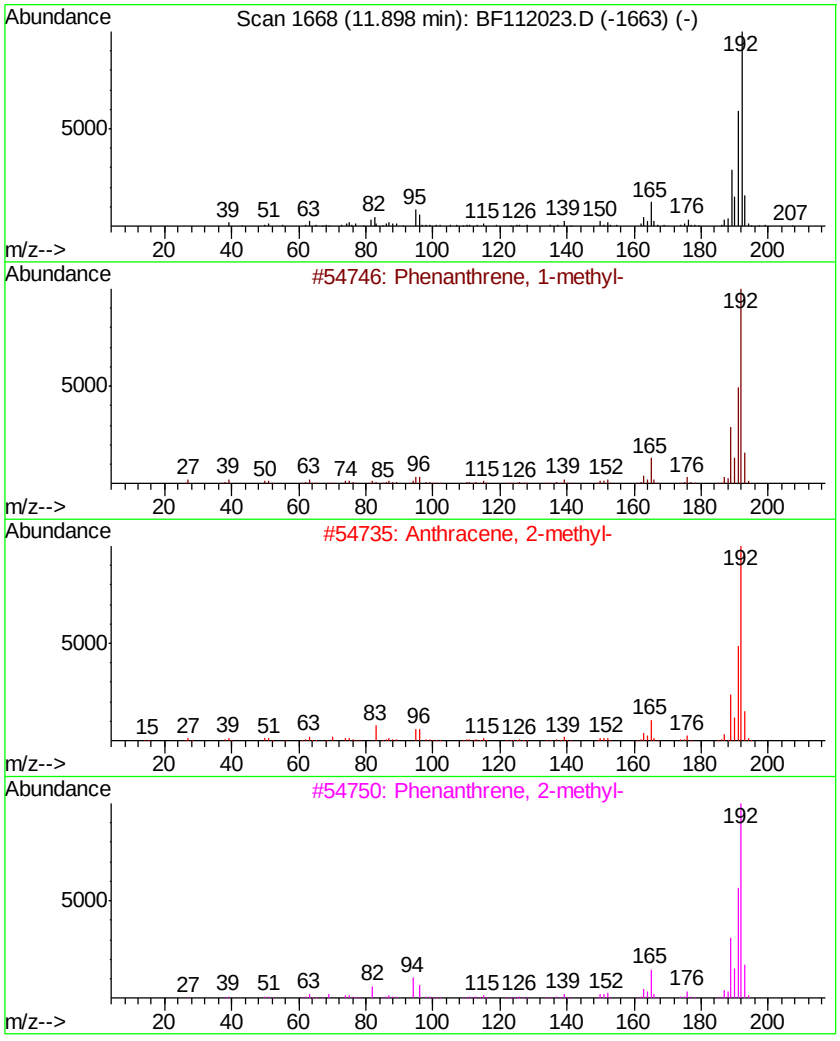
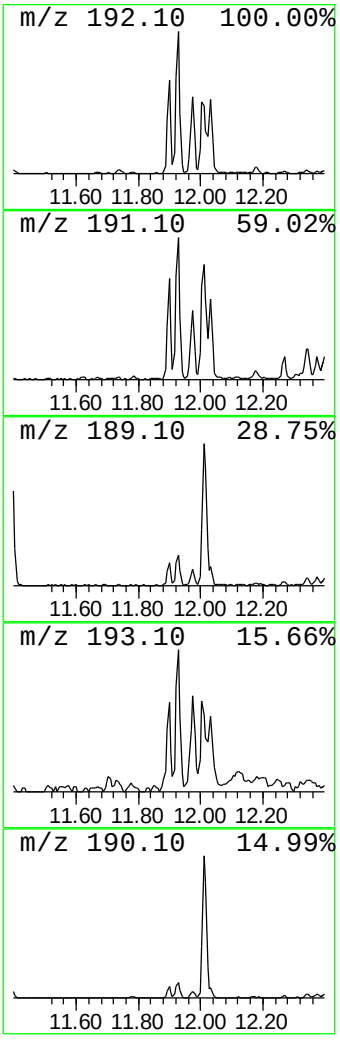
****

Peak Number 4 Phenanthrene, 1-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	3.44 ng	148899	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011119\
Data File : BF112023.D
Acq On : 11 Jan 2019 18:50
Operator : JU/SJ
Sample : K1011-01 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-011019-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

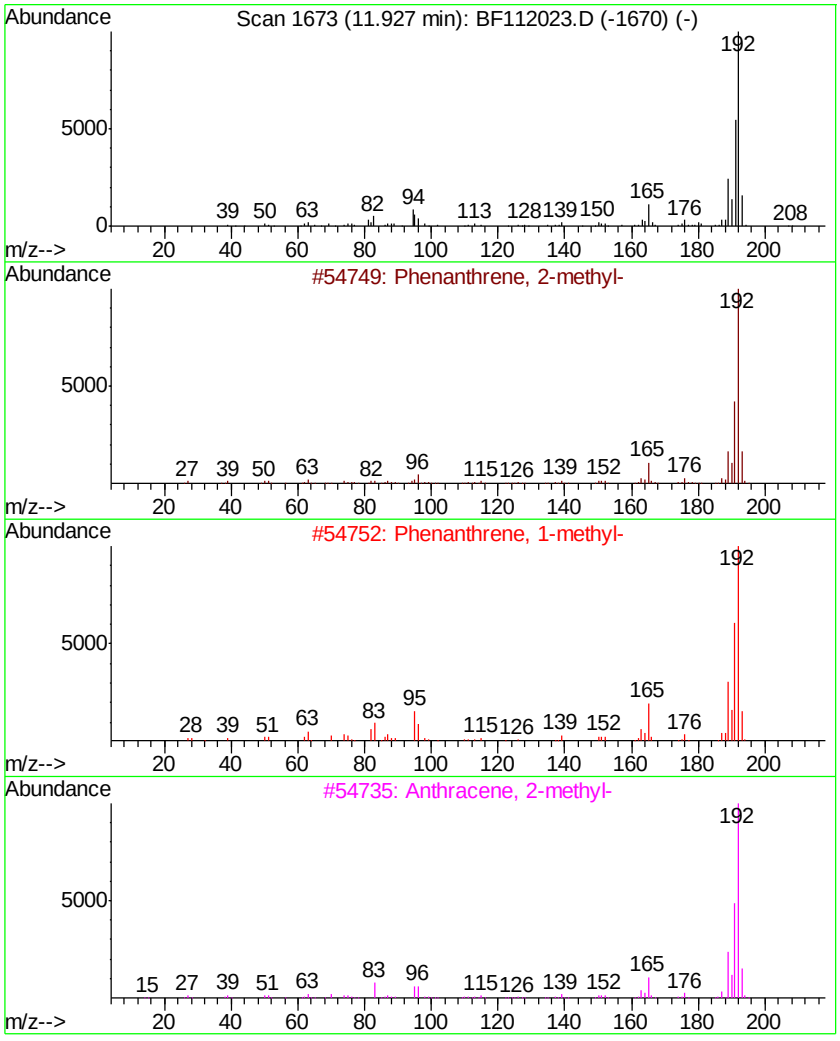
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

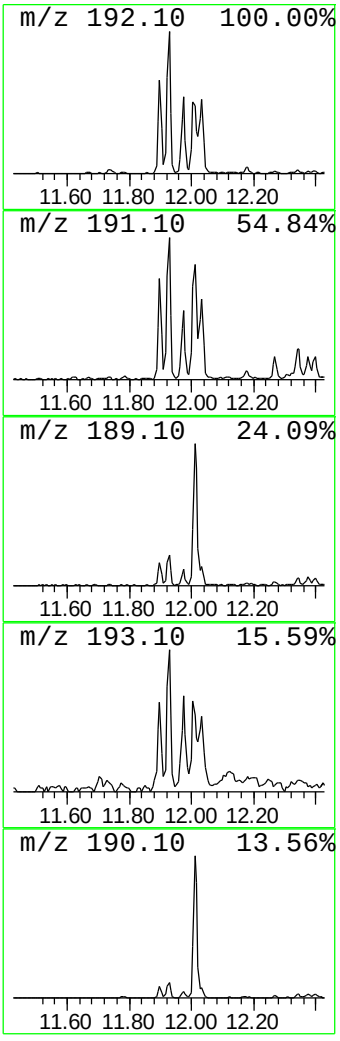
****

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.93	5.47 ng	236337	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011119\
Data File : BF112023.D
Acq On : 11 Jan 2019 18:50
Operator : JU/SJ
Sample : K1011-01 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-011019-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

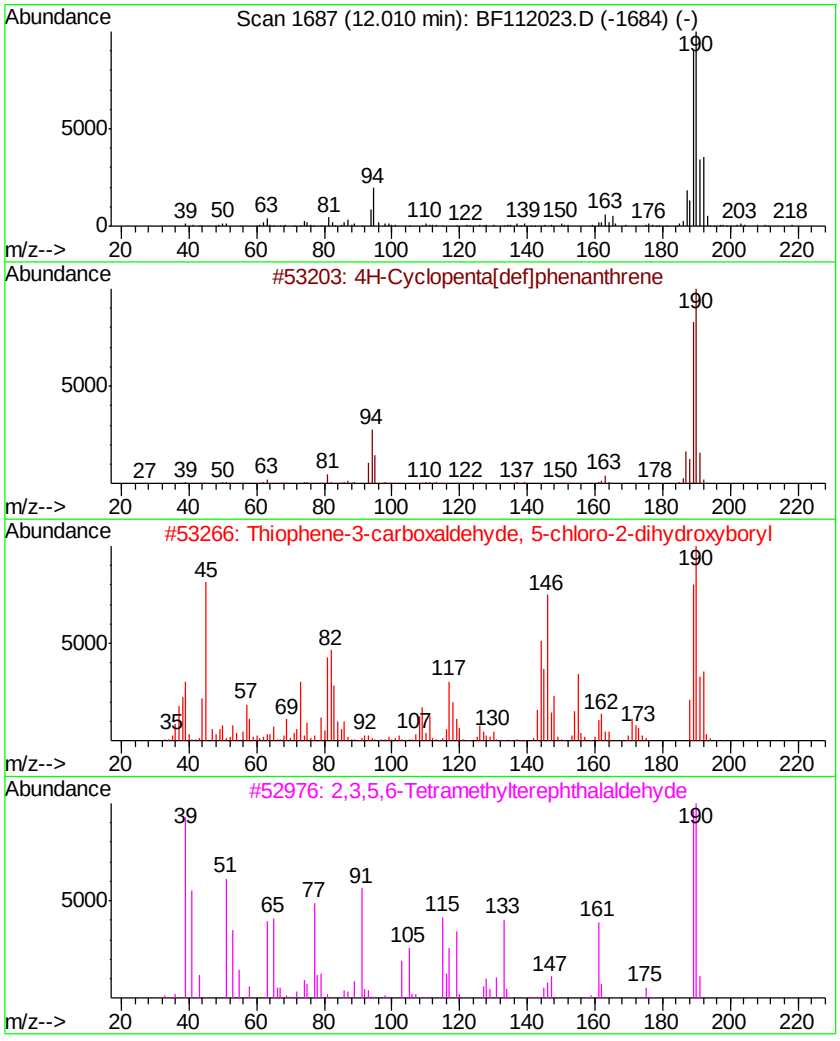
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

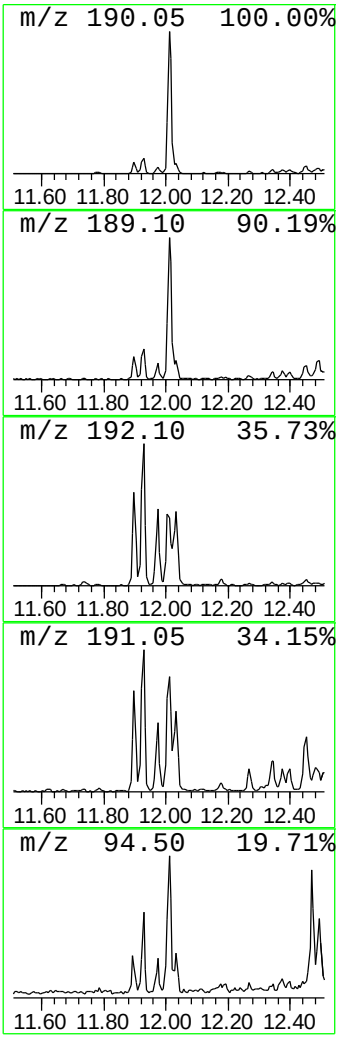
****

Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.01	9.90 ng	427844	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	59
3	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
5	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	25





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Acq On : 11 Jan 2019 18:50
Operator : JU/SJ
Sample : K1011-01 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-011019-A

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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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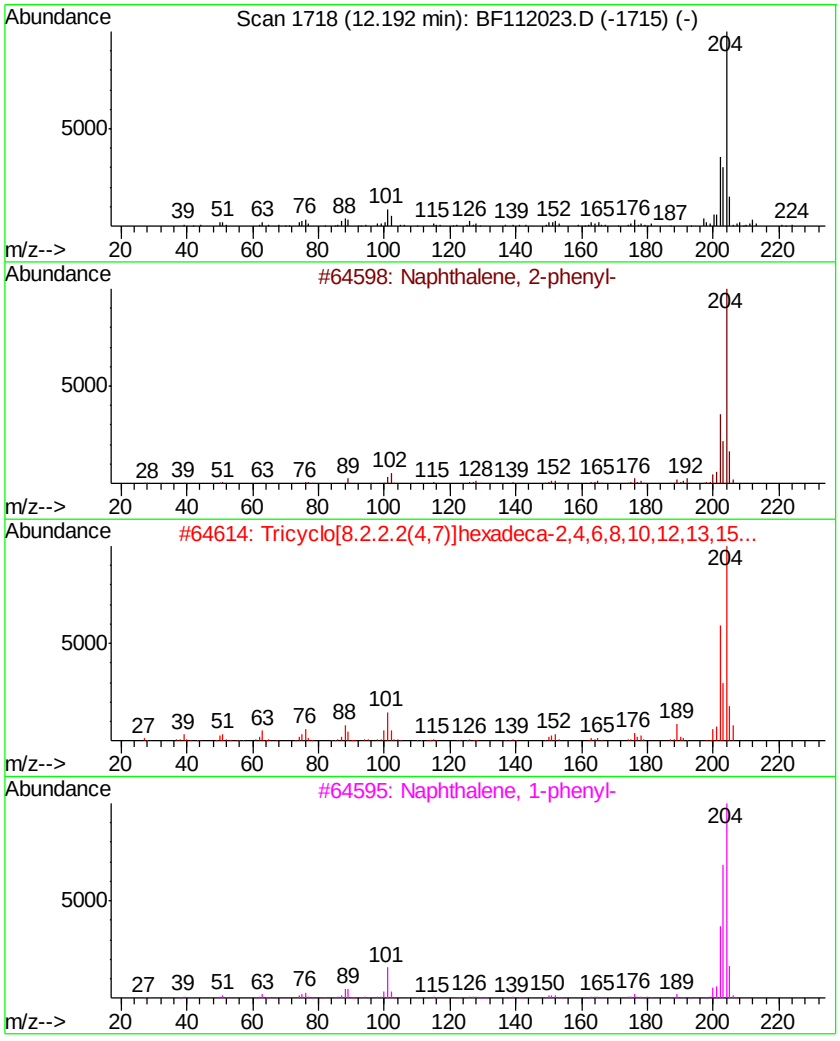
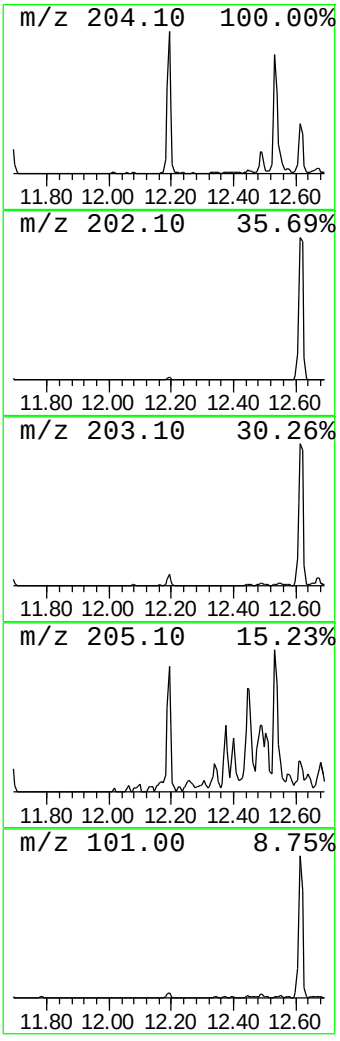
Peak Number 8 Naphthalene, 2-phenyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.19	3.33 ng	144026	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	76
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	76
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	52
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	50
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	50





Library Search Compound Report

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Sample : K1011-01 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-011019-A

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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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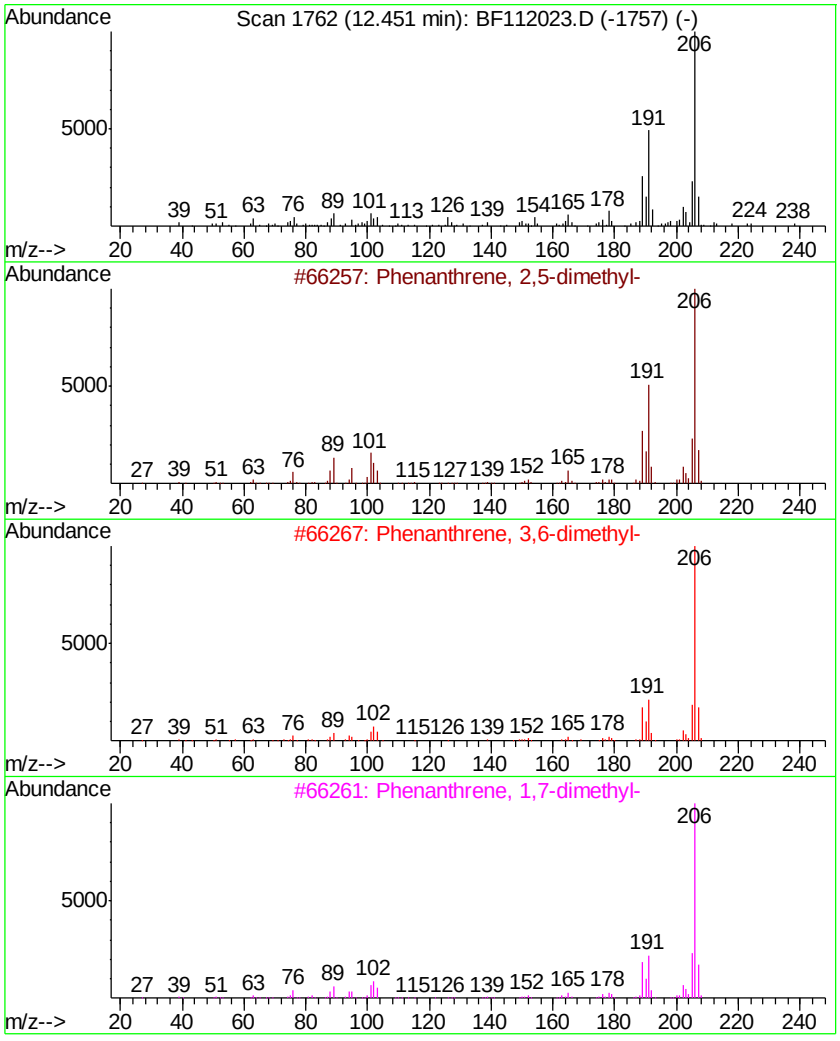
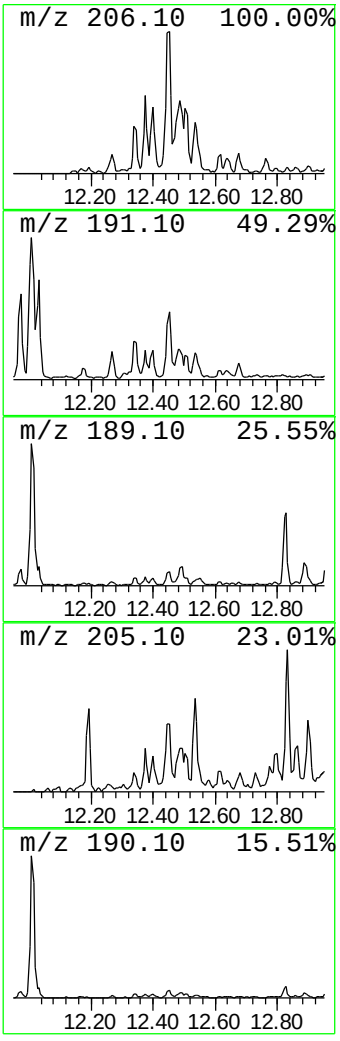
Peak Number 9 Phenanthrene, 2,5-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.45	3.47 ng	149834	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	89
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87





Library Search Compound Report

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Sample : K1011-01 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-011019-A

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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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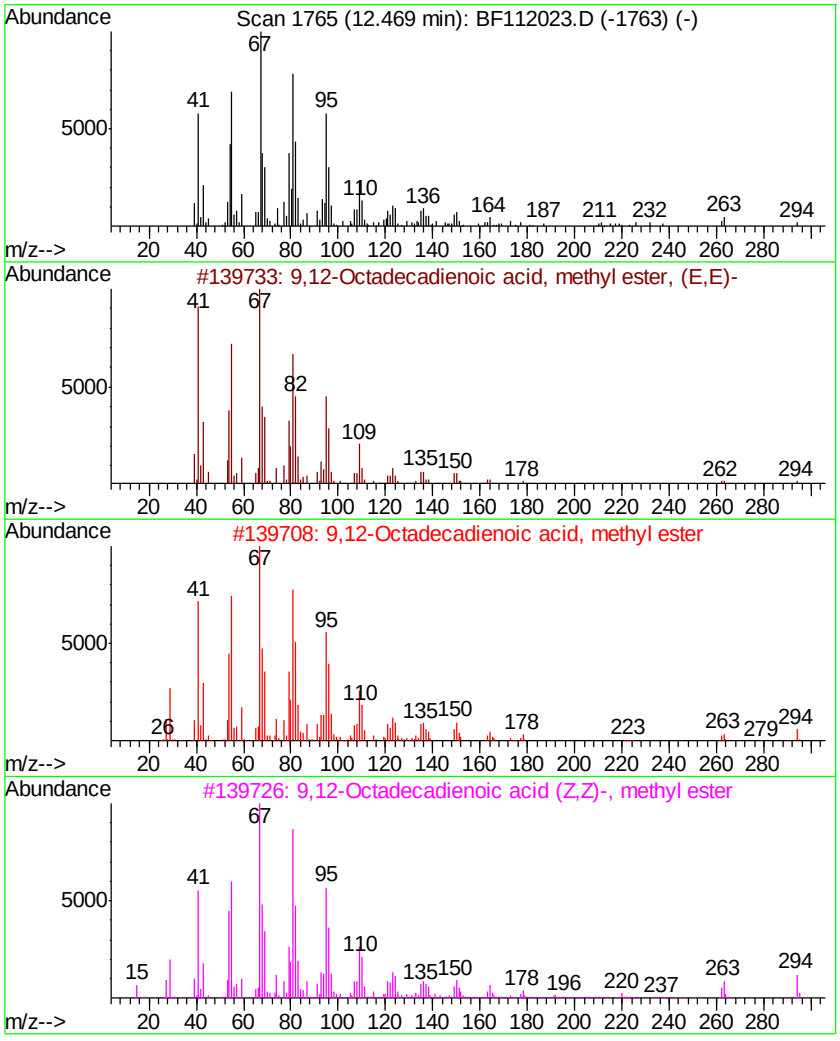
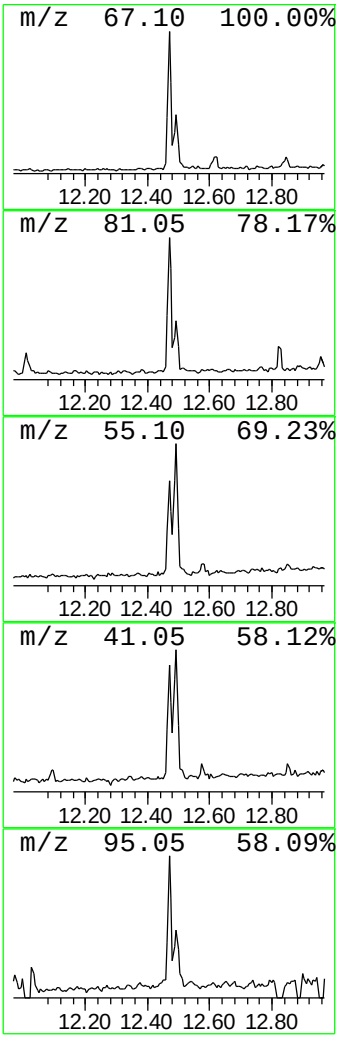
Peak Number 10 9,12-Octadecadienoic acid, ... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.47	6.43 ng	278205	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	9,12-Octadecadienoic acid, methy...	294	C19H34O2	002462-85-3	99
3	9,12-Octadecadienoic acid (Z,Z)-...	294	C19H34O2	000112-63-0	95
4	9,15-Octadecadienoic acid, methy...	294	C19H34O2	017309-05-6	91
5	9,12-Octadecadienoic acid (Z,Z)-	280	C18H32O2	000060-33-3	91





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Operator : JU/SJ
Sample : K1011-01 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-011019-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.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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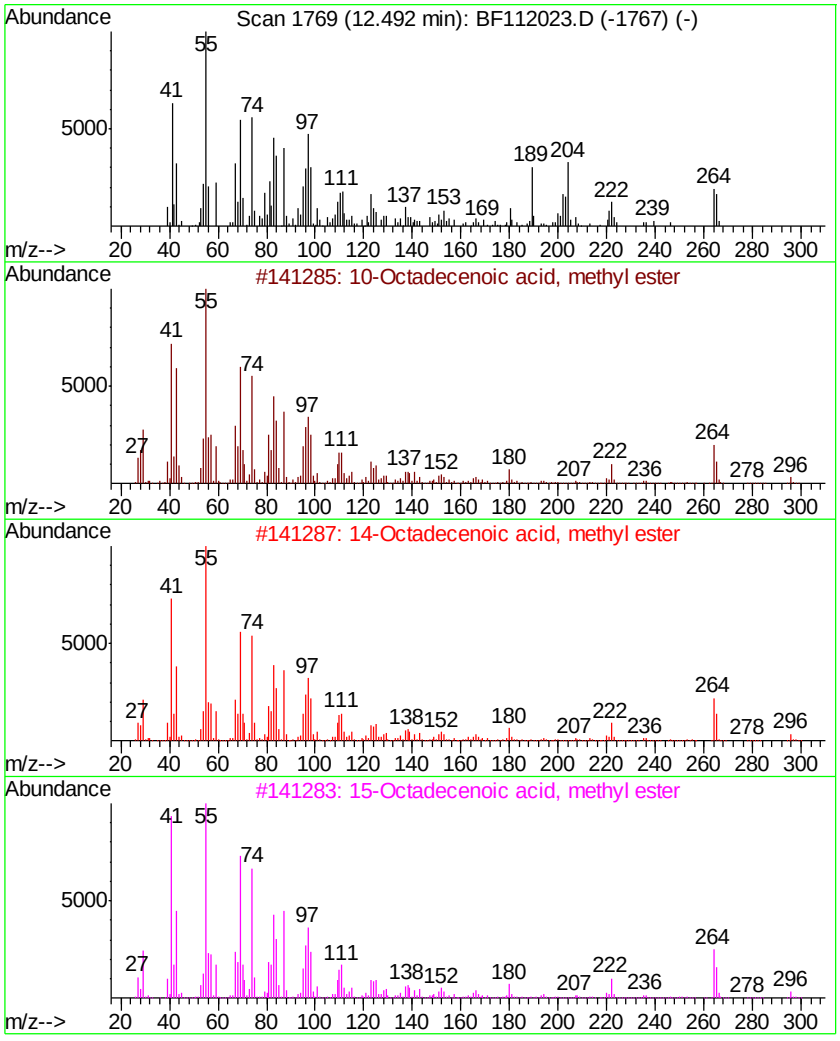
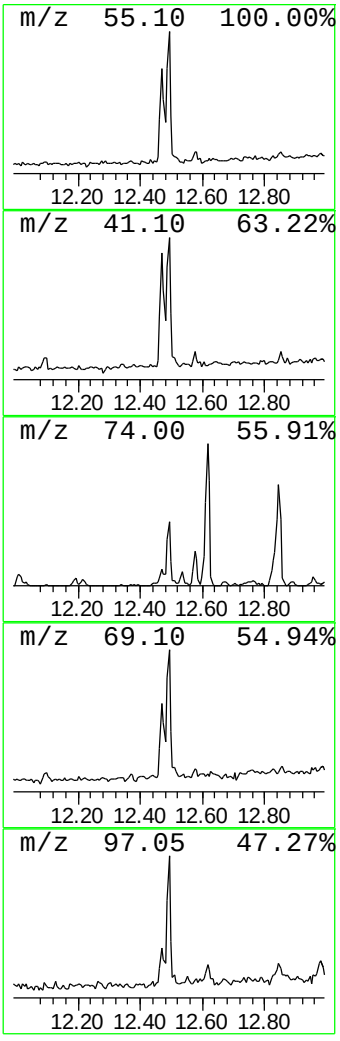
Peak Number 11 10-Octadecenoic acid, methy... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.49	7.49 ng	323753	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	10-Octadecenoic acid, methyl ester	296	C19H36O2	013481-95-3	92
2	14-Octadecenoic acid, methyl ester	296	C19H36O2	056554-48-4	86
3	15-Octadecenoic acid, methyl ester	296	C19H36O2	004764-72-1	76
4	9-Octadecenoic acid (Z)-, methyl...	296	C19H36O2	000112-62-9	70
5	16-Octadecenoic acid, methyl ester	296	C19H36O2	056554-49-5	64





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Sample : K1011-01 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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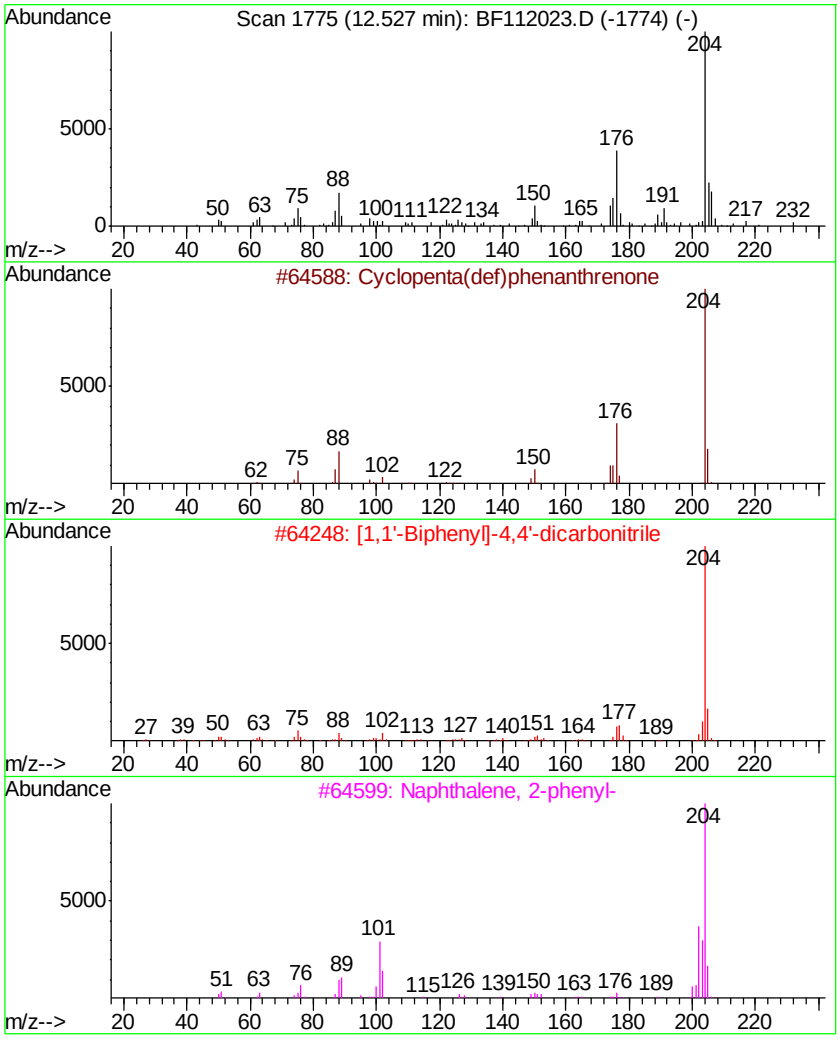
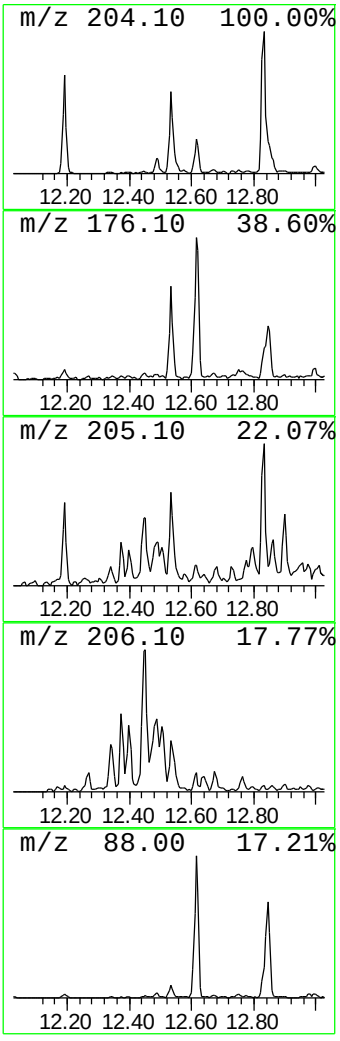
Peak Number 12 Cyclopenta(def)phenanthrenone Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.53	3.79 ng	164061	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	93
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	58
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	47
4	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	43
5	9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	43





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Sample : K1011-01 2X
Misc :
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ClientSampleId : OR-02-011019-A

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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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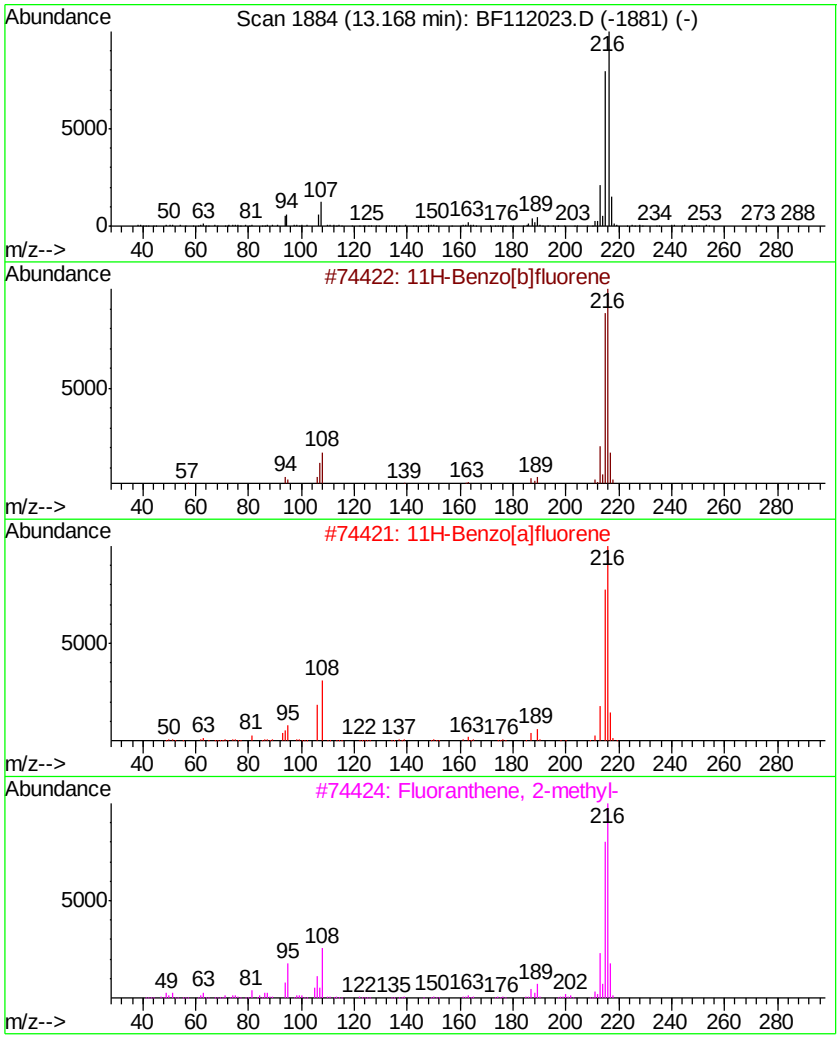
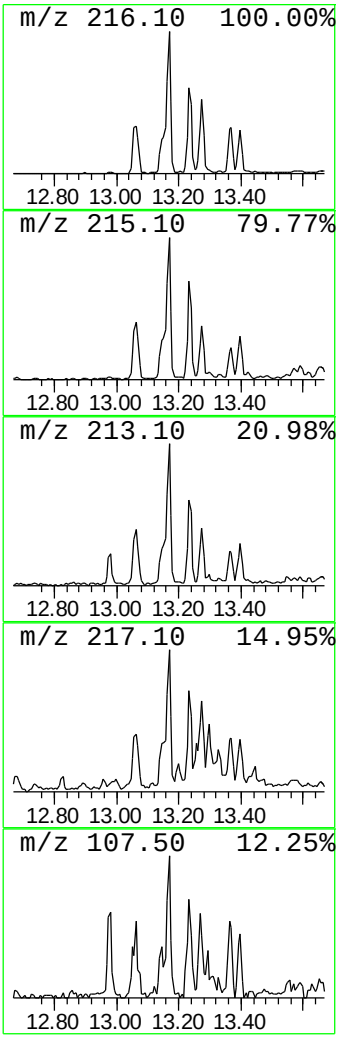
Peak Number 13 11H-Benzo[b]fluorene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.17	2.73 ng	391931	Chrysene-d12	14.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	83
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	74
4	Pyridin-3-ol, 2-(4-nitrophenyl)-	216	C11H8N2O3	030820-89-4	64
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	62





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Sample : K1011-01 2X
Misc :
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Instrument : BNA_F
ClientSampleId : OR-02-011019-A

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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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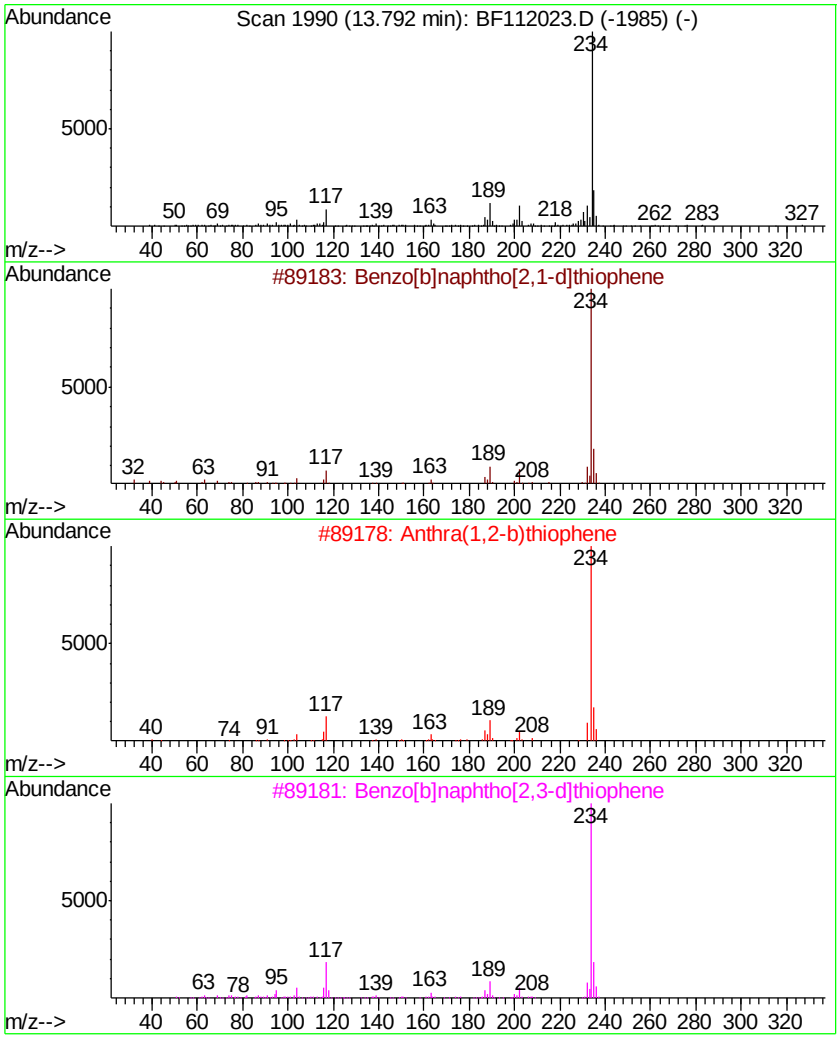
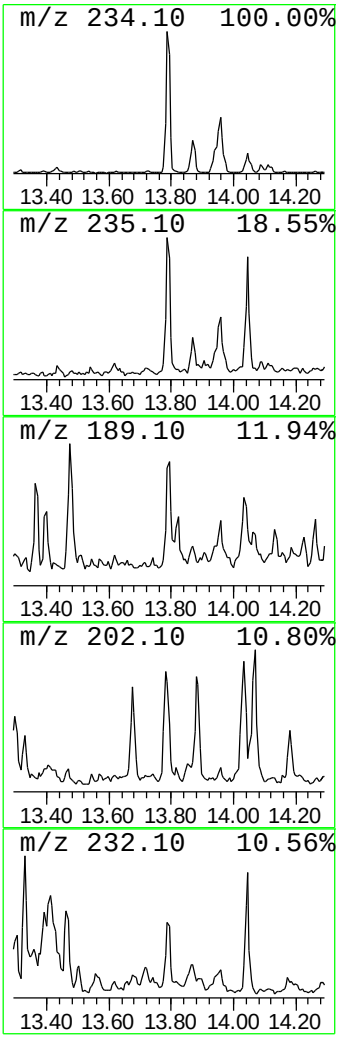
Peak Number 14 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.79	2.38 ng	341741	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	90
3	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	90
4	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	90
5	Quinoxalino[2,3-b]quinoxaline, 5...	234	C14H10N4	000531-46-4	59





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Sample : K1011-01 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

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ClientSampleId : OR-02-011019-A

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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TIC Integration Parameters: LSCINT.P

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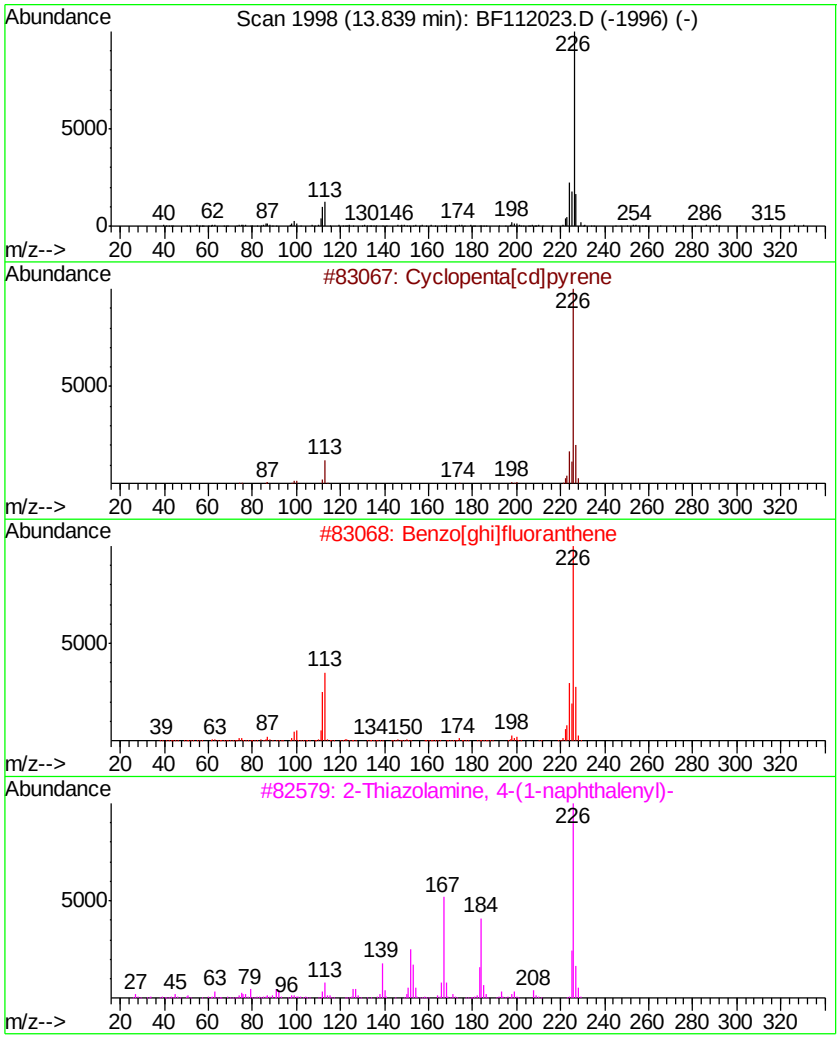
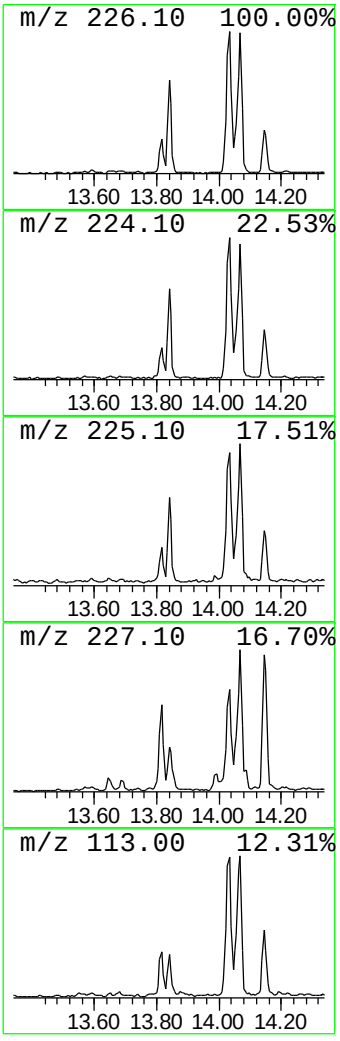
Peak Number 15 Cyclopenta[cd]pyrene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.84	2.39 ng	343573	Chrysene-d12	14.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	81
2	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	47
3	2-Thiazolamine, 4-(1-naphthalenyl)-	226	C13H10N2S	056503-96-9	40
4	1,8-Diazacyclotetradecane-2,7-dione	226	C12H22N2O2	004266-66-4	37
5	1,3-Diamino-5,6-dihydro-7-methyl...	226	C13H14N4	037436-37-6	33





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Sample : K1011-01 2X
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ClientSampleId : OR-02-011019-A

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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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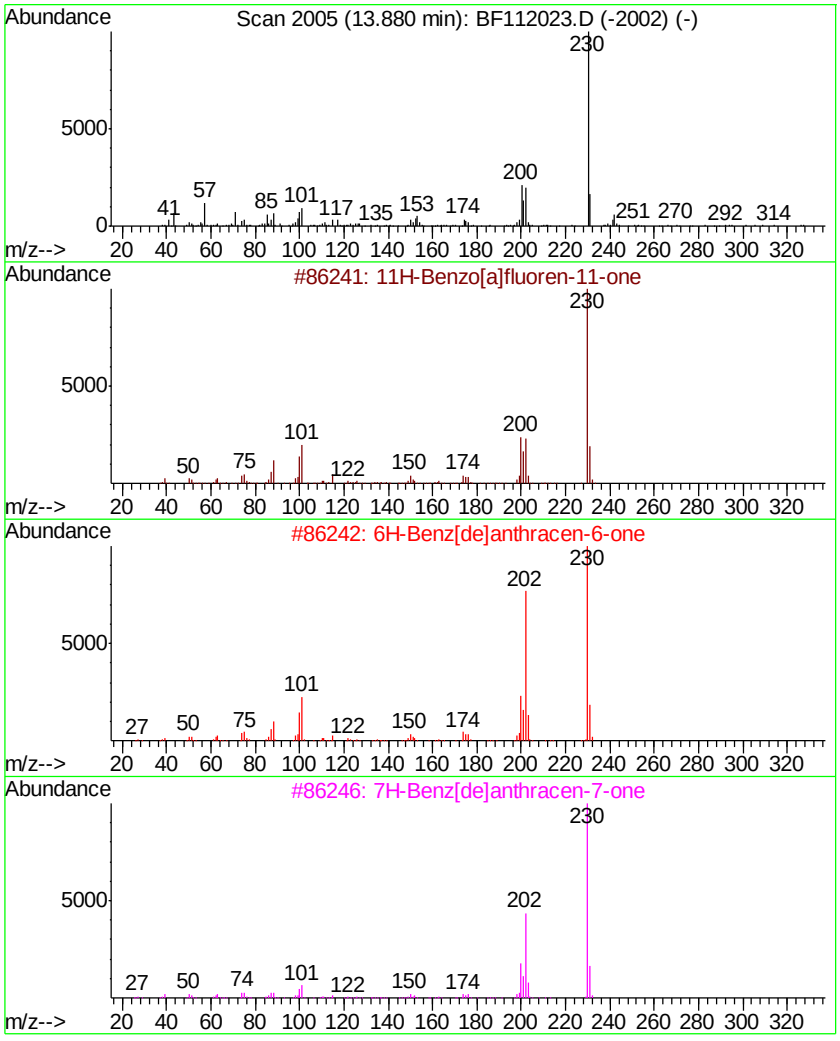
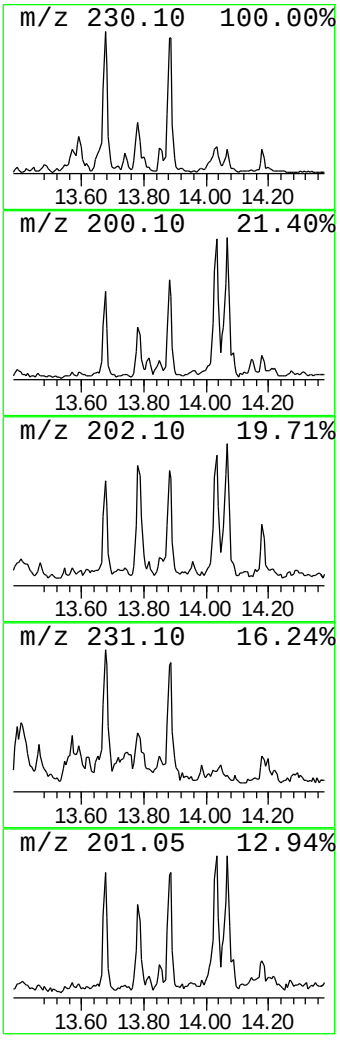
Peak Number 16 11H-Benzo[a]fluoren-11-one Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.88	2.56 ng	367641	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	95
2	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	90
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
4	9-Chloro-1-phenazinol	230	C12H7ClN2O	091268-03-0	53
5	4-Isothiazolecarbonitrile, 3,5-b...	230	C8H10N2S3	024135-13-5	53





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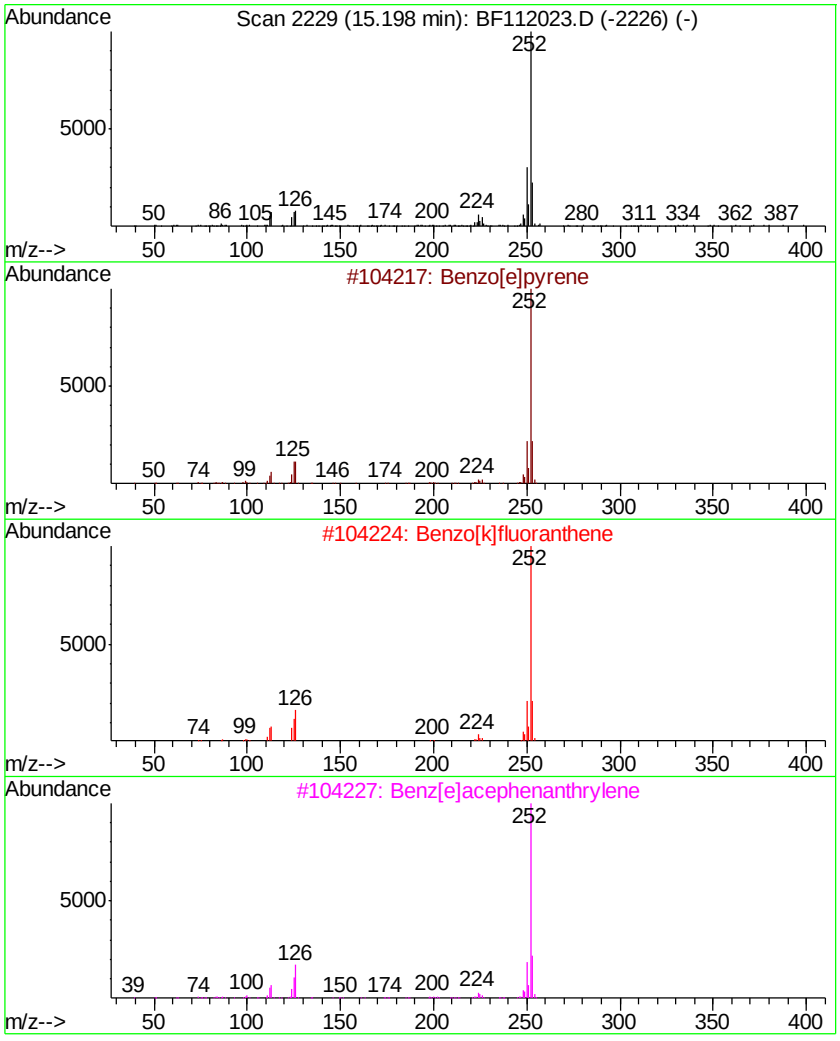
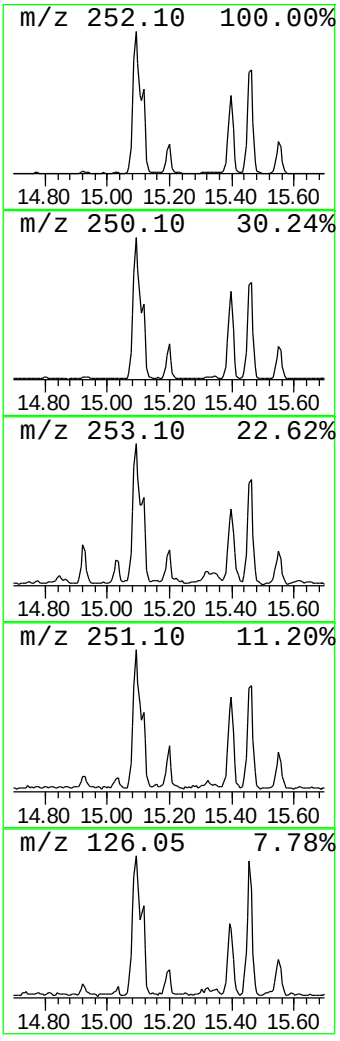
Peak Number 17 Benzo[e]pyrene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.20	6.20 ng	186538	Perylene-d12	15.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	93
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	89
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	81
4	Benzo[a]pyrene	252	C20H12	000050-32-8	76
5	Perylene	252	C20H12	000198-55-0	68





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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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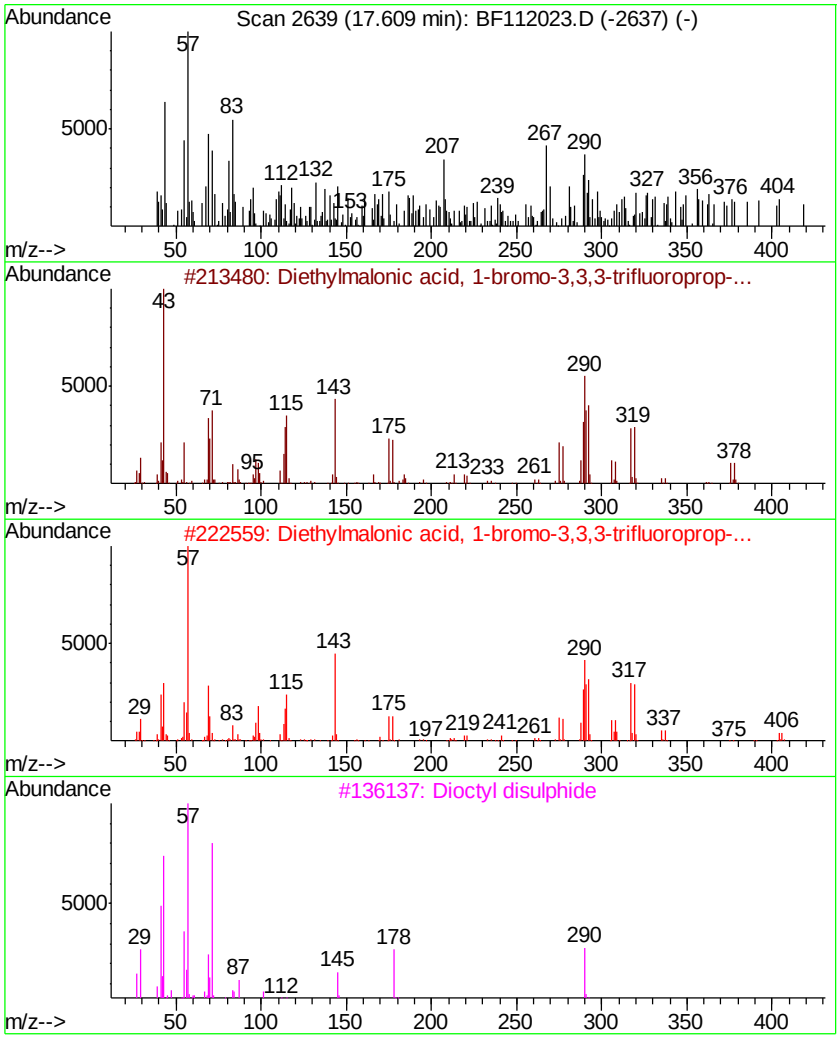
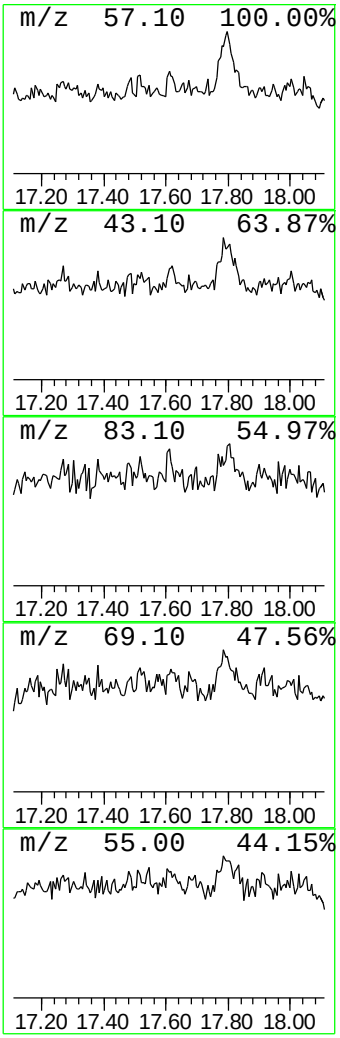
Peak Number 19 unknown17.61 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.61	3.92 ng	117892	Perylene-d12	15.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Diethylmalonic acid, 1-bromo-3,3...	404	C15H24BrF3O4	1000370-79-6	32
2	Diethylmalonic acid, 1-bromo-3,3...	432	C17H28BrF3O4	1000370-79-9	12
3	Dioctyl disulphide	290	C16H34S2	000822-27-5	9
4	4-[Acetyloxyl-7-chloro1,2,3,4,9,...	333	C17H16ClNO4	144155-82-8	9
5	1,1-Bis(4,4-dimethylcyclohexane-...	362	C22H34O4	1000194-01-3	7





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011119\
Data File : BF112023.D
Acq On : 11 Jan 2019 18:50
Operator : JU/SJ
Sample : K1011-01 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-011019-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

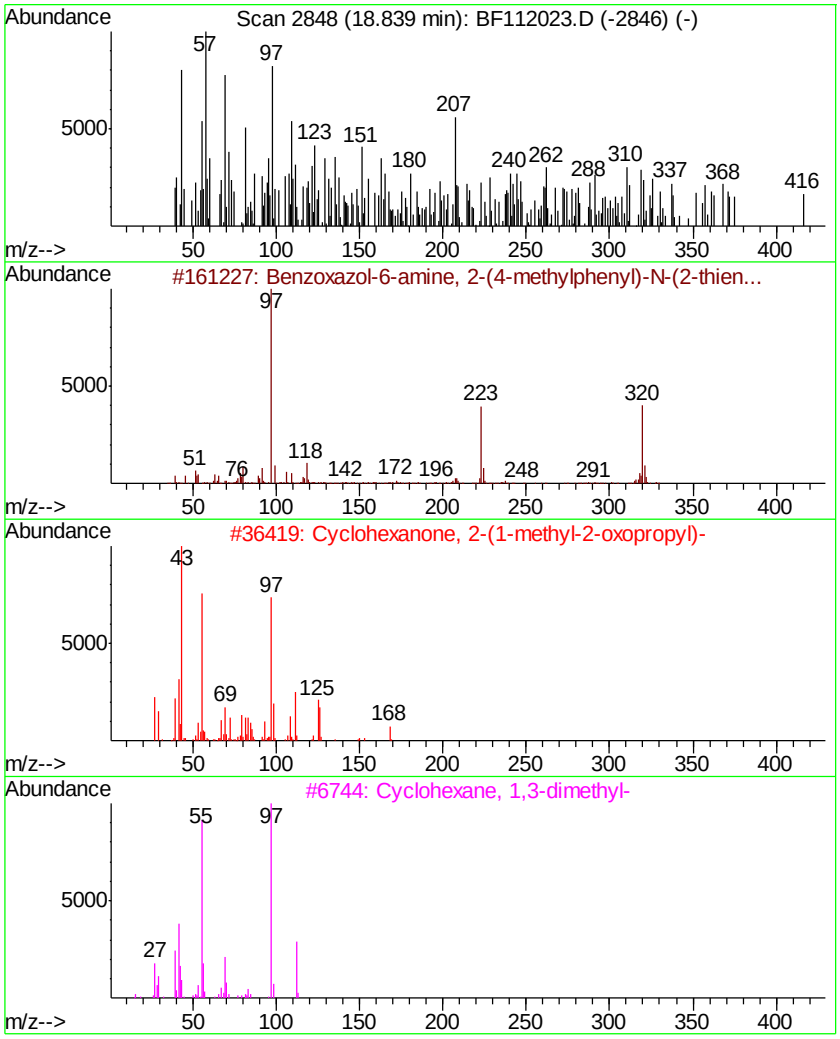
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

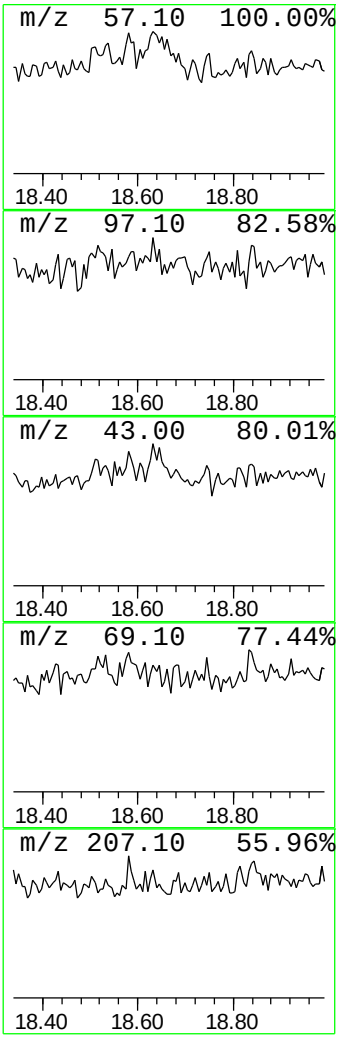
****

Peak Number 20 unknown18.84 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.84	2.48 ng	74519	Perylene-d12	15.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzoxazol-6-amine, 2-(4-methylp...	320	C19H16N2OS	1000276-68-9	27
2	Cyclohexanone, 2-(1-methyl-2-oxo...	168	C10H16O2	067722-25-2	18
3	Cyclohexane, 1,3-dimethyl-	112	C8H16	000591-21-9	18
4	2(5H)-Furanone, 5,5-dimethyl-	112	C6H8O2	020019-64-1	18
5	1-Pentadecene	210	C15H30	013360-61-7	18





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF011119\
Data File : BF112023.D
Acq On : 11 Jan 2019 18:50
Operator : JU/SJ
Sample : K1011-01 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-011019-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.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
unknown6.65	6.65	35.8	ng	1155460	1	6.87	645868	20.0
2,4,7,9-Tetrameth...	9.35	2.7	ng	107097	3	9.91	797826	20.0
Phenanthrene, 1-m...	11.90	3.4	ng	148899	4	11.40	864736	20.0
Phenanthrene, 2-m...	11.93	5.5	ng	236337	4	11.40	864736	20.0
4H-Cyclopenta[def...	12.01	9.9	ng	427844	4	11.40	864736	20.0
Naphthalene, 2-ph...	12.19	3.3	ng	144026	4	11.40	864736	20.0
Phenanthrene, 2,5...	12.45	3.5	ng	149834	4	11.40	864736	20.0
9,12-Octadecadien...	12.47	6.4	ng	278205	4	11.40	864736	20.0
10-Octadecenoic a...	12.49	7.5	ng	323753	4	11.40	864736	20.0
Cyclopenta(def)ph...	12.53	3.8	ng	164061	4	11.40	864736	20.0
11H-Benzo[b]fluorene	13.17	2.7	ng	391931	5	14.04	2872410	20.0
Benzo[b]naphtho[2...	13.79	2.4	ng	341741	5	14.04	2872410	20.0
Cyclopenta[cd]pyrene	13.84	2.4	ng	343573	5	14.04	2872410	20.0
11H-Benzo[a]fluor...	13.88	2.6	ng	367641	5	14.04	2872410	20.0
Benzo[e]pyrene	15.20	6.2	ng	186538	6	15.52	601326	20.0
unknown17.61	17.61	3.9	ng	117892	6	15.52	601326	20.0
unknown18.84	18.84	2.5	ng	74519	6	15.52	601326	20.0