LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF053019\
Data File : BF114679.D
Acq On : 30 May 2019 23:53
Operator : HP/JU
Sample : K3041-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-2-S

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-BF052919.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	3.663	259	268	273	rBV2	61620	116413	1.46%	0.102%
2	5.304	542	547	550	rVB	6985262	7405762	92.65%	6.520%
3	5.534	580	586	592	rBV4	80709	131230	1.64%	0.116%
4	6.228	699	704	707	rBV2	69351	107552	1.35%	0.095%
5	6.334	714	722	725	rBV	6978898	7884650	98.64%	6.941%
6	6.469	739	745	748	rBV	7260349	7993058	100.00%	7.037%
7	6.698	780	784	787	rVB	2939382	2541249	31.79%	2.237%
8	6.851	806	810	813	rBV	6492771	6150776	76.95%	5.415%
9	6.881	813	815	820	rVB	391828	301911	3.78%	0.266%
10	7.257	873	879	882	rBV	5275552	5056441	63.26%	4.452%
11	7.310	886	888	891	rVB	151952	119818	1.50%	0.105%
12	7.345	891	894	899	rBV4	116555	113327	1.42%	0.100%
13	7.722	953	958	961	rBV2	155865	181022	2.26%	0.159%
14	7.975	997	1001	1003	rBV	4030571	3355443	41.98%	2.954%
15	7.998	1003	1005	1008	rVV	621710	500217	6.26%	0.440%
16	8.045	1010	1013	1018	rVB2	127392	172651	2.16%	0.152%
17	8.416	1073	1076	1079	rBV	163450	151494	1.90%	0.133%
18	8.586	1102	1105	1107	rBV	165574	134380	1.68%	0.118%
19	8.686	1117	1122	1125	rVB	460114	411285	5.15%	0.362%
20	8.781	1135	1138	1143	rBV	282173	257174	3.22%	0.226%
21	9.051	1180	1184	1187	rBV	8403456	7494662	93.76%	6.598%
22	9.145	1197	1200	1204	rBV	337408	271967	3.40%	0.239%
23	9.304	1224	1227	1231	rVV	182160	224307	2.81%	0.197%
24	9.386	1235	1241	1243	rBV	289018	344783	4.31%	0.304%
25	9.410	1243	1245	1248	rVV	236046	192083	2.40%	0.169%
26	9.439	1248	1250	1253	rVV	798494	674807	8.44%	0.594%
27	9.498	1257	1260	1265	rVB	156517	171092	2.14%	0.151%
28	9.580	1271	1274	1277	rVB	259079	188845	2.36%	0.166%
29	9.675	1287	1290	1293	rBV	221380	169764	2.12%	0.149%
30	9.722	1293	1298	1301	rBV	4154539	3549298	44.40%	3.125%
31	9.751	1301	1303	1307	rVB2	300105	268013	3.35%	0.236%
32	9.922	1329	1332	1336	rVB	345235	346313	4.33%	0.305%
33	9.963	1336	1339	1342	rVB	153382	121839	1.52%	0.107%
34	10.039	1348	1352	1355	rBV2	159598	189117	2.37%	0.166%

LSC Area Percent Report

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Operator : HP/JU
Sample : K3041-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-2-S

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-BF052919.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.069	1355	1357	1359	rVV	136728	106503	1.33%	0.094%
36	10.133	1363	1368	1372	rBV3	122375	204140	2.55%	0.180%
37	10.169	1372	1374	1377	rBV	215232	168471	2.11%	0.148%
38	10.263	1387	1390	1393	rBV	351144	297163	3.72%	0.262%
39	10.333	1397	1402	1403	rBV3	111940	130394	1.63%	0.115%
40	10.392	1408	1412	1415	rBV4	114419	144760	1.81%	0.127%
41	10.422	1415	1417	1419	rBV	138390	112631	1.41%	0.099%
42	10.504	1427	1431	1434	rBV	5051647	4552163	56.95%	4.008%
43	10.639	1451	1454	1456	rBV2	210755	217530	2.72%	0.192%
44	10.839	1486	1488	1491	rVB2	133415	106349	1.33%	0.094%
45	10.939	1501	1505	1507	rBV3	110993	156720	1.96%	0.138%
46	10.963	1507	1509	1513	rVV3	164916	184726	2.31%	0.163%
47	10.998	1513	1515	1521	rVV3	184638	206860	2.59%	0.182%
48	11.057	1521	1525	1527	rVV2	184947	232705	2.91%	0.205%
49	11.086	1528	1530	1533	rVV2	327790	325185	4.07%	0.286%
50	11.198	1545	1549	1551	rBV	3424100	3278843	41.02%	2.887%
51	11.222	1551	1553	1556	rVV	3031089	2217087	27.74%	1.952%
52	11.269	1556	1561	1564	rVB	788267	656529	8.21%	0.578%
53	11.310	1564	1568	1571	rBV2	173034	231801	2.90%	0.204%
54	11.422	1582	1587	1590	rBV2	432818	461771	5.78%	0.407%
55	11.516	1601	1603	1607	rVB2	211923	290574	3.64%	0.256%
56	11.669	1626	1629	1631	rVV3	241339	292738	3.66%	0.258%
57	11.698	1631	1634	1636	rVV	670532	674454	8.44%	0.594%
58	11.721	1636	1638	1640	rVV	956675	938229	11.74%	0.826%
59	11.739	1640	1641	1644	rVV	896401	667382	8.35%	0.588%
60	11.769	1644	1646	1649	rVV	339098	335148	4.19%	0.295%
61	11.804	1649	1652	1655	rVV	978970	1064518	13.32%	0.937%
62	11.827	1655	1656	1659	rVB	466613	271319	3.39%	0.239%
63	11.916	1669	1671	1676	rVB3	190256	238310	2.98%	0.210%
64	11.992	1681	1684	1685	rVV	411921	366147	4.58%	0.322%
65	12.010	1685	1687	1694	rVB2	390923	382471	4.79%	0.337%
66	12.139	1707	1709	1712	rVB	228705	189943	2.38%	0.167%
67	12.169	1712	1714	1716	rBV	210359	176226	2.20%	0.155%
68	12.192	1716	1718	1721	rVB	237328	182732	2.29%	0.161%
69	12.245	1723	1727	1730	rBV	631538	669551	8.38%	0.589%
70	12.280	1730	1733	1735	rBV	280879	271117	3.39%	0.239%
71	12.304	1735	1737	1739	rVV2	216509	153240	1.92%	0.135%

LSC Area Percent Report

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Sample : K3041-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-2-S

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	12.327	1739	1741	1746	rVB3	253874	353741	4.43%	0.311%
73	12.404	1750	1754	1758	rVB	4134728	3570946	44.68%	3.144%
74	12.451	1760	1762	1768	rBV3	186467	224927	2.81%	0.198%
75	12.521	1771	1774	1778	rBV3	676753	845114	10.57%	0.744%
76	12.627	1787	1792	1795	rBV	3707931	3958567	49.53%	3.485%
77	12.651	1795	1796	1799	rVB2	286246	237313	2.97%	0.209%
78	12.745	1810	1812	1814	rBV	254172	231037	2.89%	0.203%
79	12.780	1814	1818	1821	rVV	6156541	5680785	71.07%	5.001%
80	12.851	1827	1830	1832	rBV	399504	403170	5.04%	0.355%
81	12.933	1842	1844	1845	rBV	309396	274449	3.43%	0.242%
82	12.957	1845	1848	1851	rVB	853347	857349	10.73%	0.755%
83	13.021	1856	1859	1862	rBV	627800	572003	7.16%	0.504%
84	13.057	1862	1865	1868	rBV	666634	579953	7.26%	0.511%
85	13.151	1878	1881	1884	rBV2	453396	381355	4.77%	0.336%
86	13.180	1884	1886	1890	rVB	437678	361175	4.52%	0.318%
87	13.568	1948	1952	1955	rBV2	454452	659174	8.25%	0.580%
88	13.598	1955	1957	1959	rVV	430224	375720	4.70%	0.331%
89	13.621	1959	1961	1966	rVV3	442729	664569	8.31%	0.585%
90	13.686	1969	1972	1978	rVB2	642652	745742	9.33%	0.657%
91	13.815	1990	1994	1997	rBV3	3142620	4490045	56.17%	3.953%
92	13.845	1997	1999	2002	rVB	2051805	1499934	18.77%	1.321%
93	14.204	2058	2060	2063	rVB	554870	471321	5.90%	0.415%
94	14.239	2064	2066	2069	rVB	400175	320335	4.01%	0.282%
95	14.821	2161	2165	2168	rBV	1353978	2037503	25.49%	1.794%
96	14.921	2179	2182	2186	rVB2	390628	403277	5.05%	0.355%
97	15.098	2209	2212	2217	rVB	874791	986106	12.34%	0.868%
98	15.151	2217	2221	2226	rVB	1131936	1229103	15.38%	1.082%
99	15.210	2227	2231	2234	rBV	1582851	1808303	22.62%	1.592%
100	16.527	2452	2455	2463	rVB2	507431	915327	11.45%	0.806%

Sum of corrected areas: 113587516

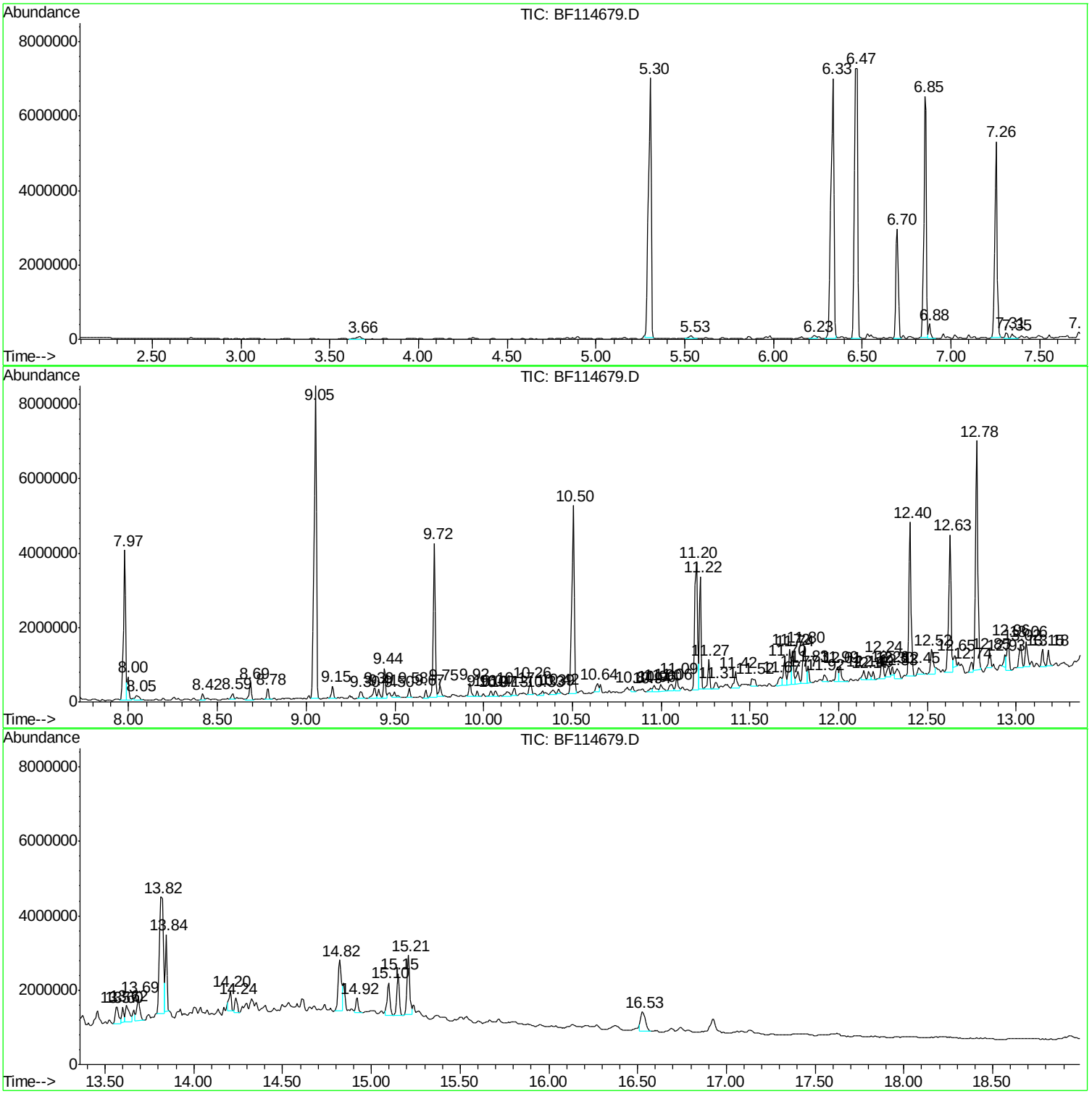
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF053019\
Data File : BF114679.D
Acq On : 30 May 2019 23:53
Operator : HP/JU
Sample : K3041-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-2-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.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\BF053019\
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Acq On : 30 May 2019 23:53
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Instrument : BNA_F
ClientSampleId : TP-2-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

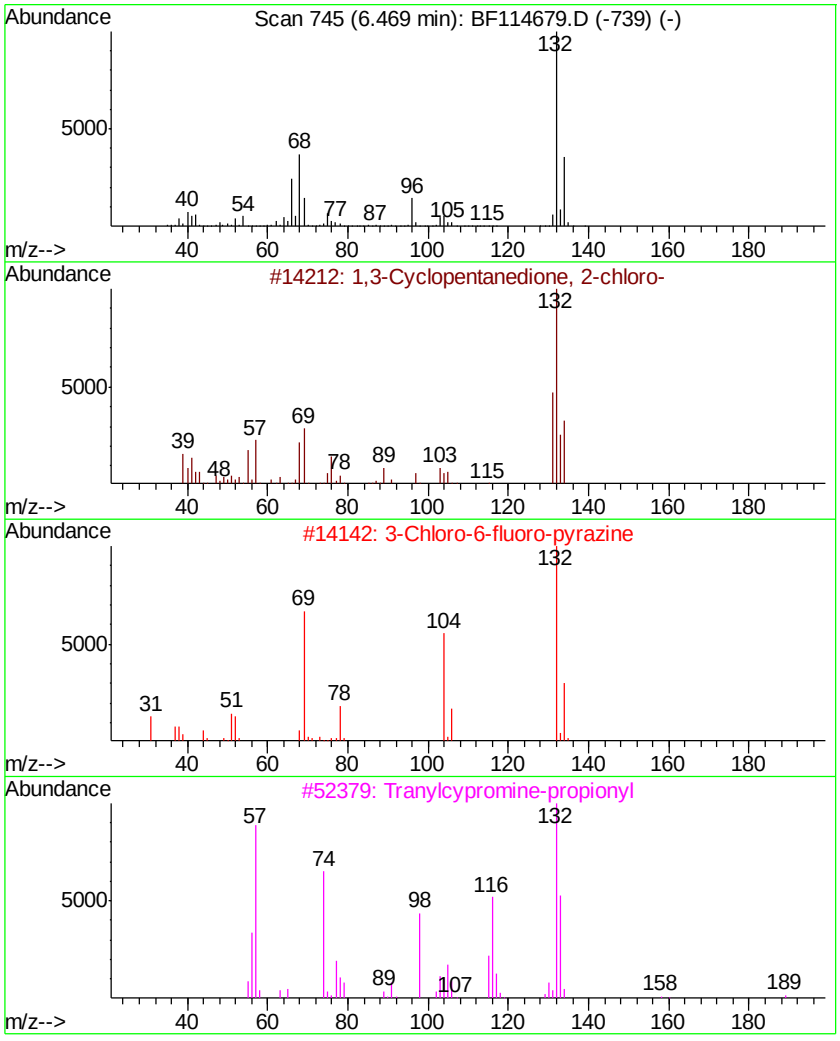
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

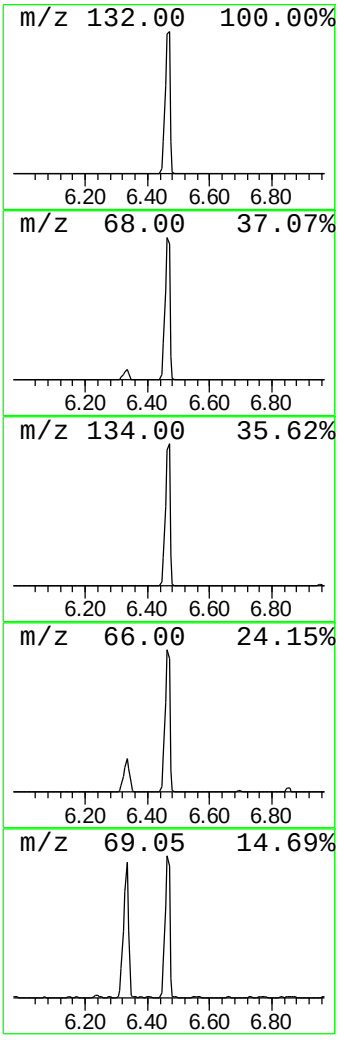
****

Peak Number 1 unknown6.47 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.47	62.91 ng	7993060	1,4-Dichlorobenzene-d4	6.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Cyclopentanedione, 2-chloro-	132	C5H5ClO2	014203-19-1	37
2	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	16
4	Cyclopropanamine, 1-phenyl-	133	C9H11N	1000351-26-2	9
5	4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9





Library Search Compound Report

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Instrument : BNA_F
ClientSampleId : TP-2-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

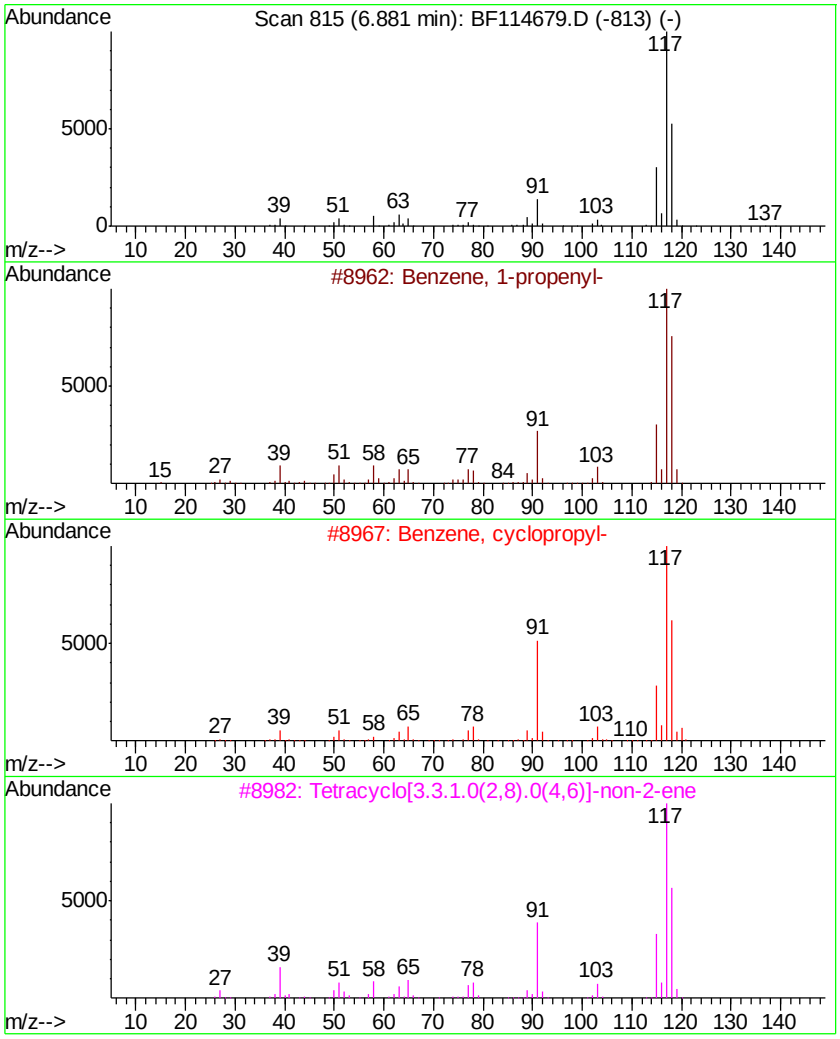
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

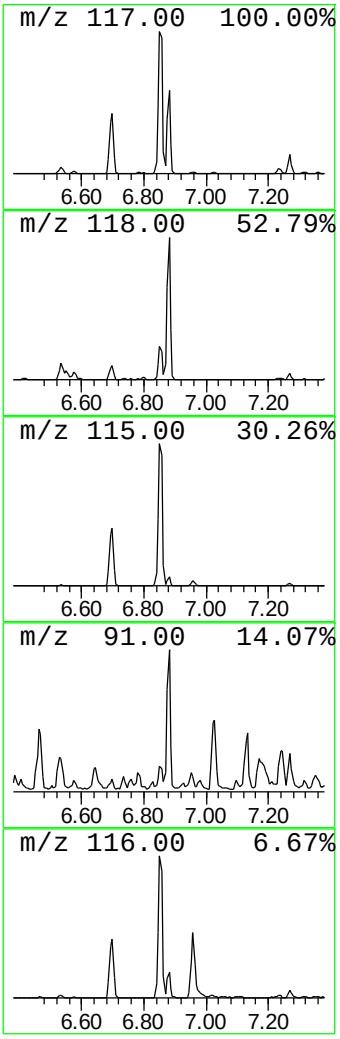
****

Peak Number 3 Benzene, 1-propenyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.88	2.38 ng	301911	1,4-Dichlorobenzene-d4	6.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-propenyl-	118	C9H10	000637-50-3	83
2	Benzene, cyclopropyl-	118	C9H10	000873-49-4	72
3	Tetracyclo[3.3.1.0(2,8).0(4,6)]-...	118	C9H10	1000191-13-7	64
4	Indane	118	C9H10	000496-11-7	64
5	Indan, 1-methyl-	132	C10H12	000767-58-8	59





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Instrument : BNA_F
ClientSampleId : TP-2-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.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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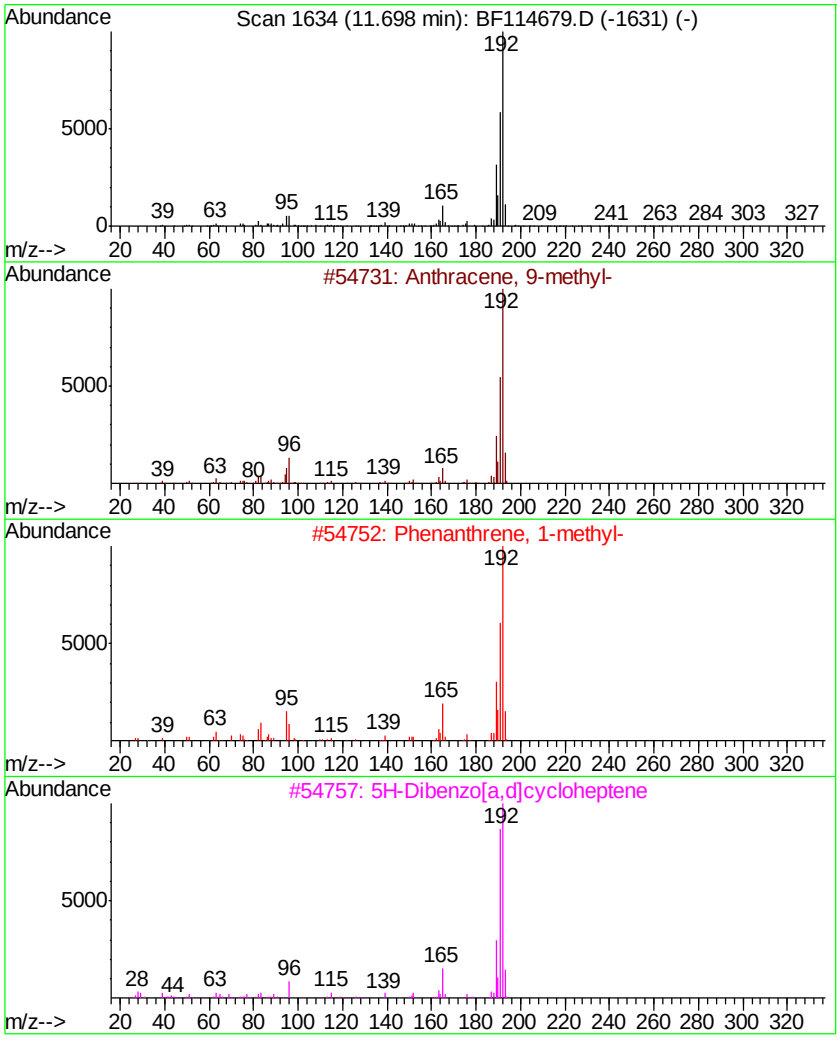
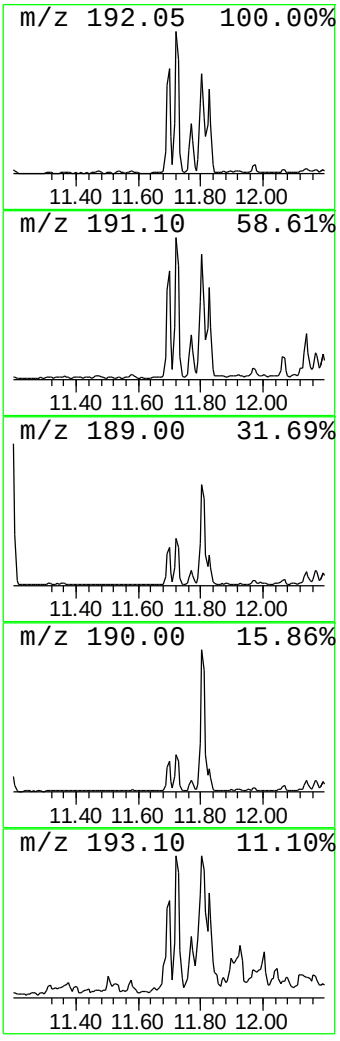
Peak Number 4 Anthracene, 9-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.70	4.11 ng	674454	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
3	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	90
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	90
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	89





Library Search Compound Report

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ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-2-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.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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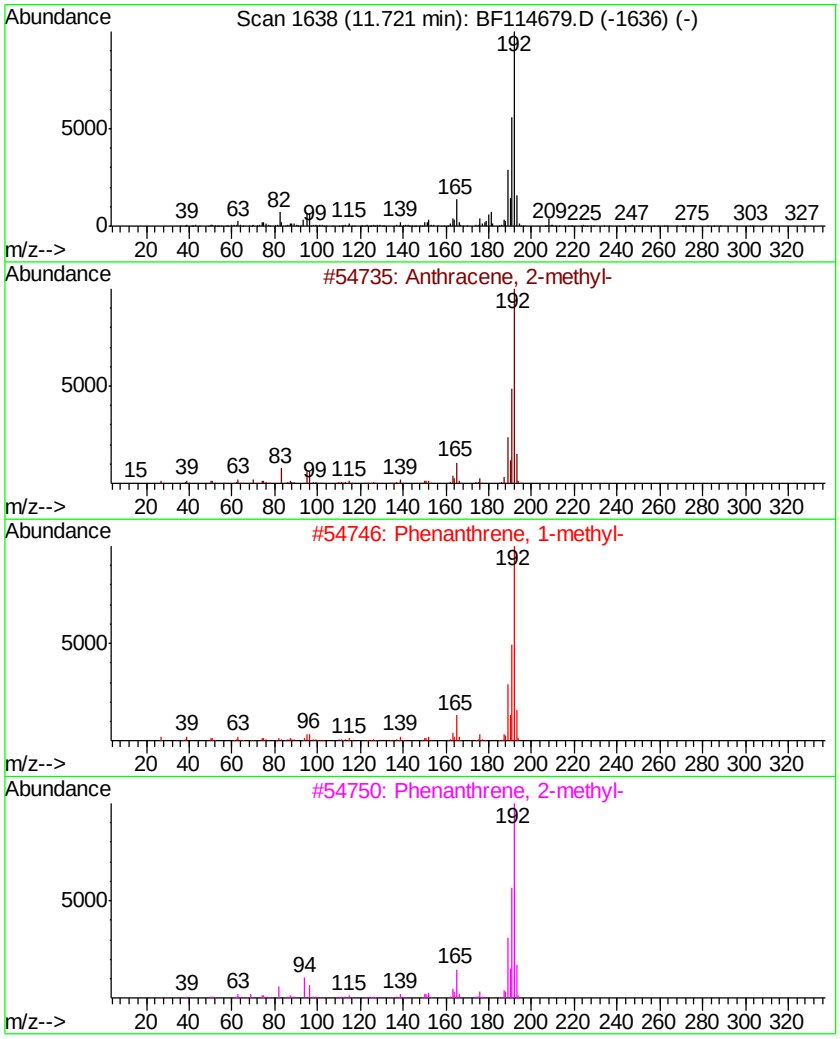
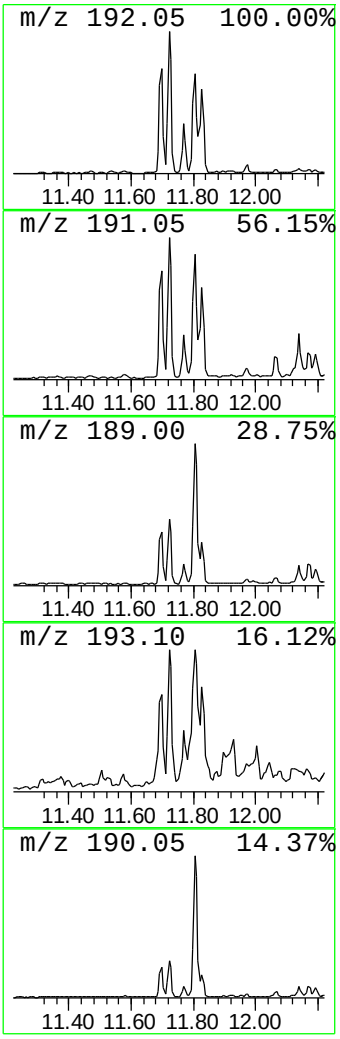
Peak Number 5 Anthracene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.72	5.72 ng	938229	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	96





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF053019\
Data File : BF114679.D
Acq On : 30 May 2019 23:53
Operator : HP/JU
Sample : K3041-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-2-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.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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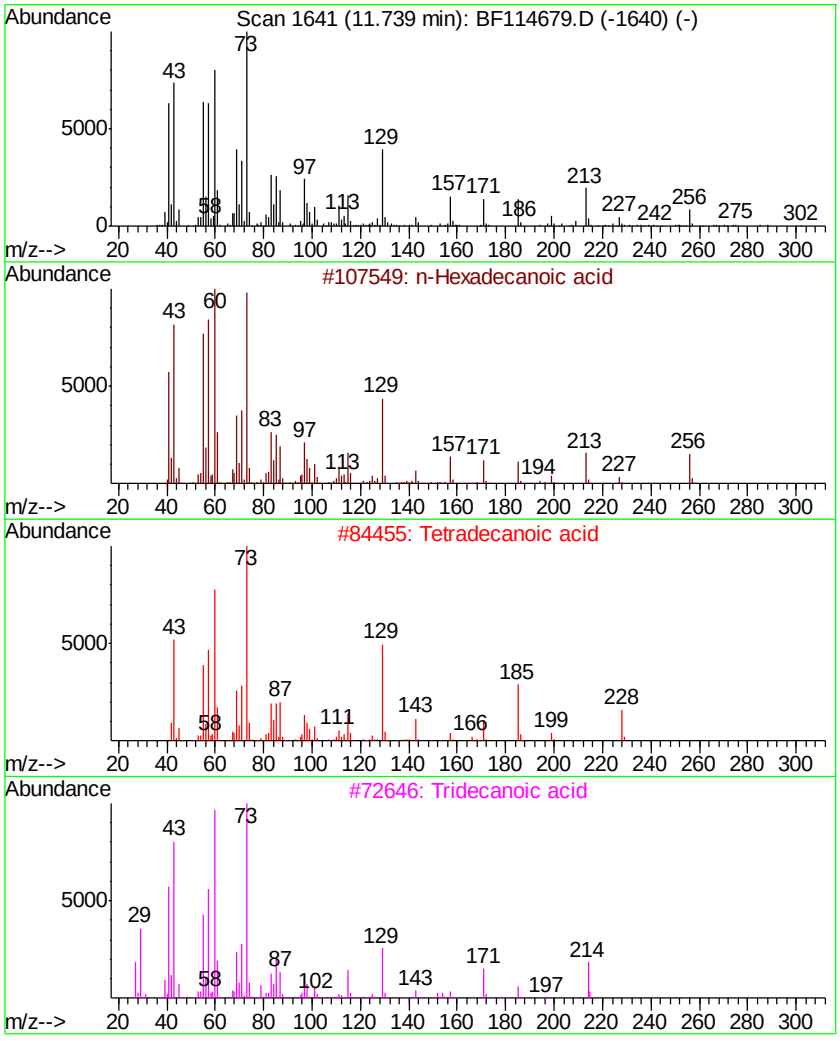
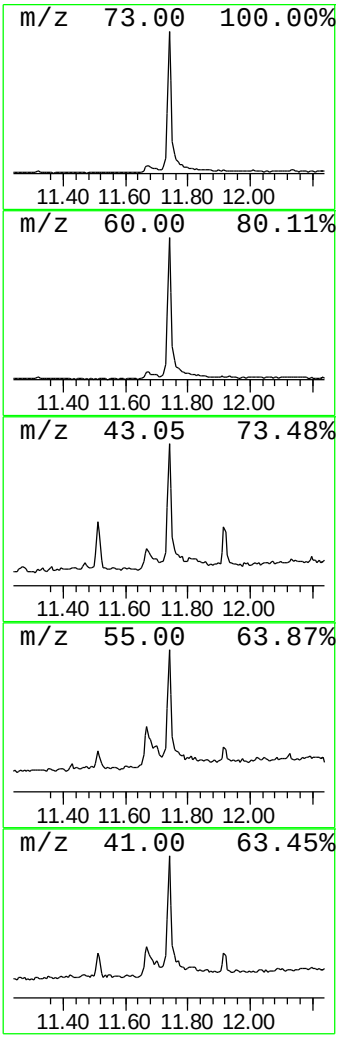
Peak Number 6 n-Hexadecanoic acid Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.74	4.07 ng	667382	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tetradecanoic acid	228	C14H28O2	000544-63-8	93
3	Tridecanoic acid	214	C13H26O2	000638-53-9	90
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	81
5	Octadecanoic acid	284	C18H36O2	000057-11-4	76





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Acq On : 30 May 2019 23:53
Operator : HP/JU
Sample : K3041-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-2-S

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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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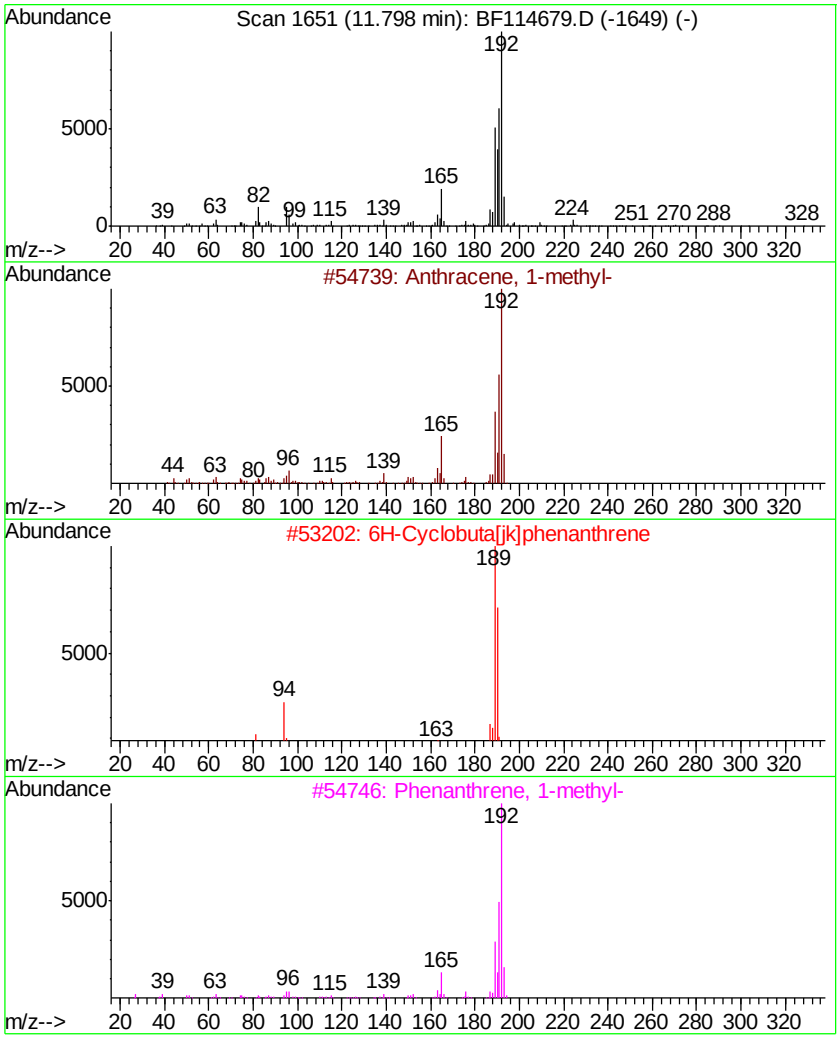
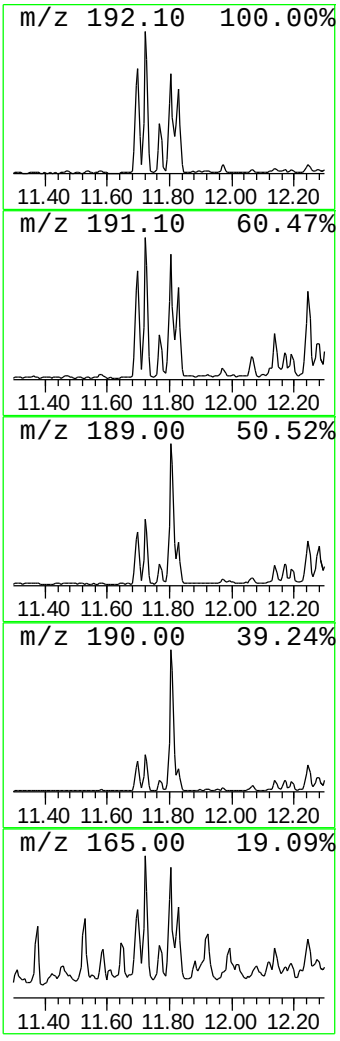
Peak Number 7 unknown11.80 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.80	6.49 ng	1064520	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	49
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	46
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	46
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	46





Library Search Compound Report

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Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-2-S

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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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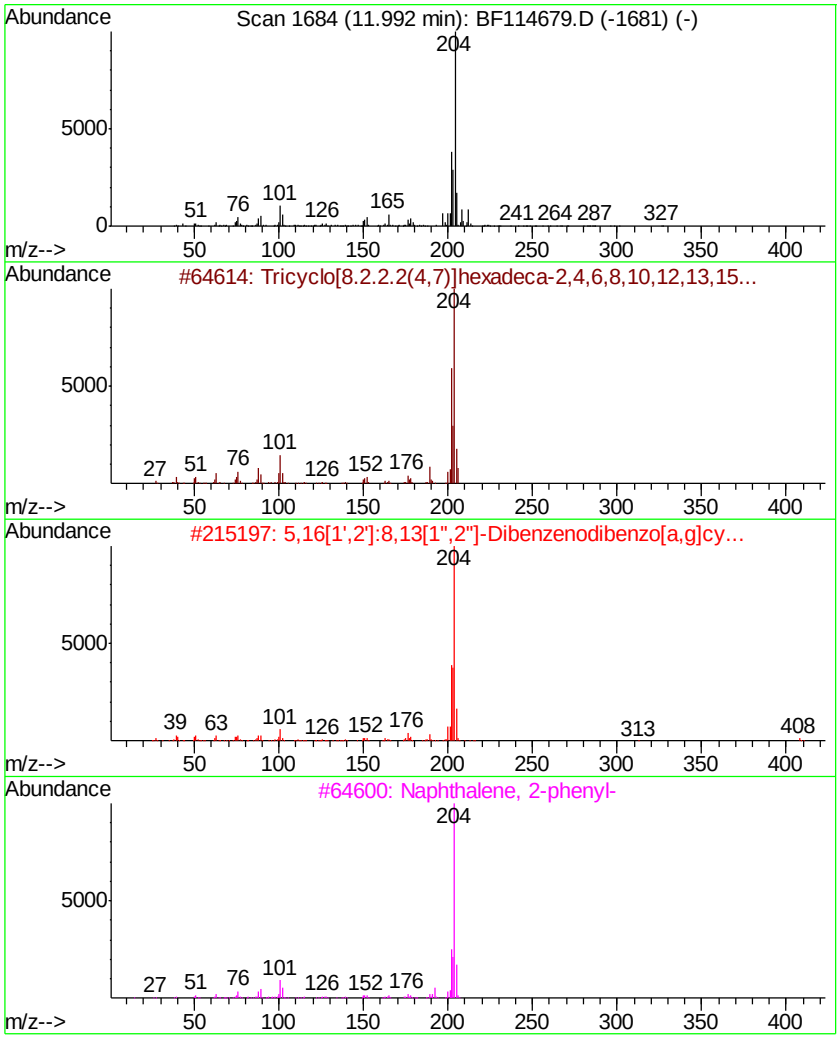
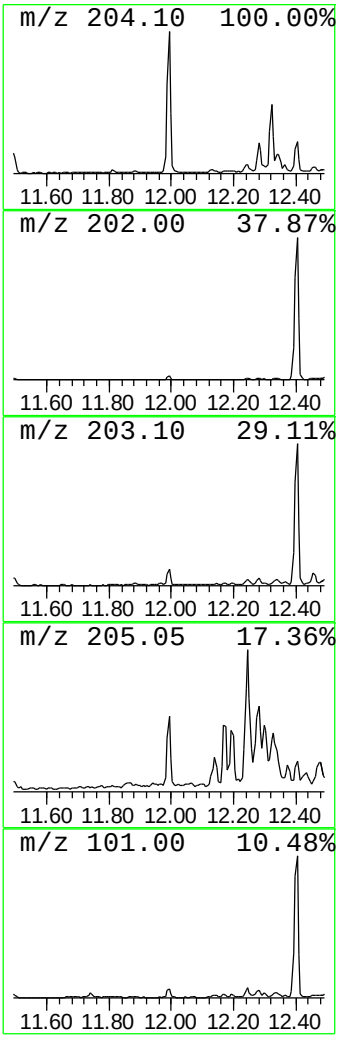
Peak Number 8 Tricyclo[8.2.2.2(4,7)]hexad... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	2.23 ng	366147	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	90
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	81
4	6-Phenylbenzocycloheptен-7-one	232	C17H12O	093327-56-1	78
5	6-Cyanophenanthridine	204	C14H8N2	002176-28-5	55





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Sample : K3041-07
Misc :
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ClientSampleId : TP-2-S

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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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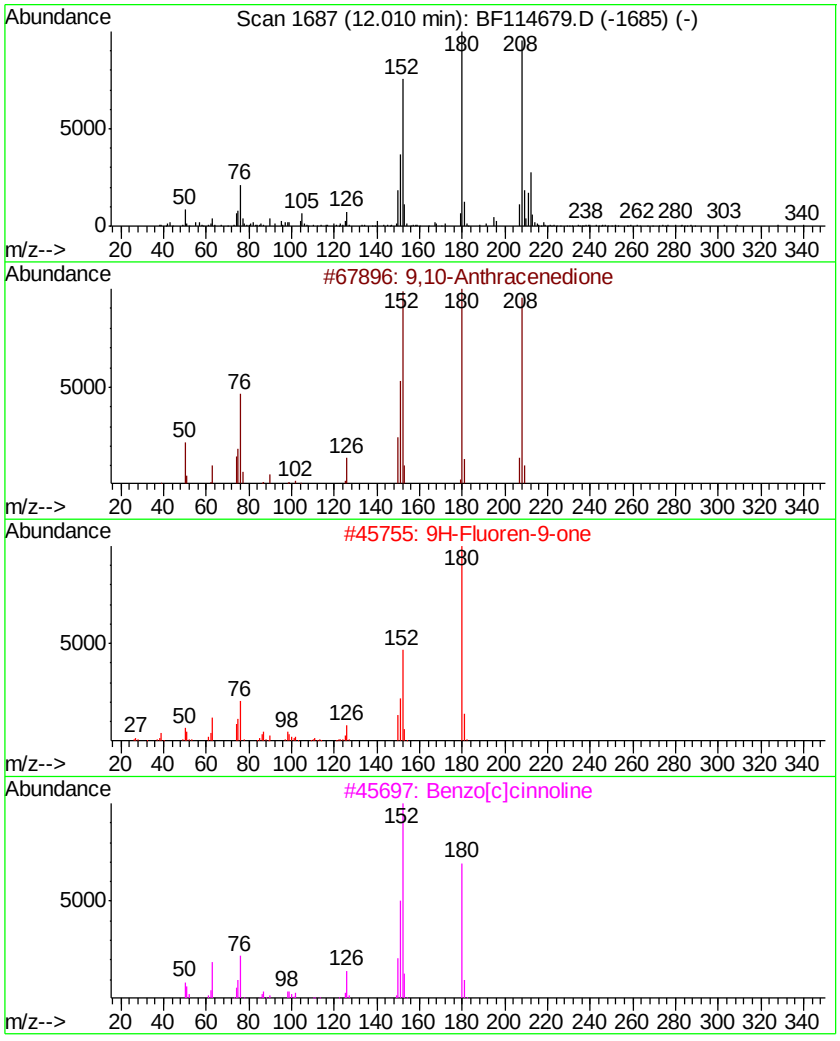
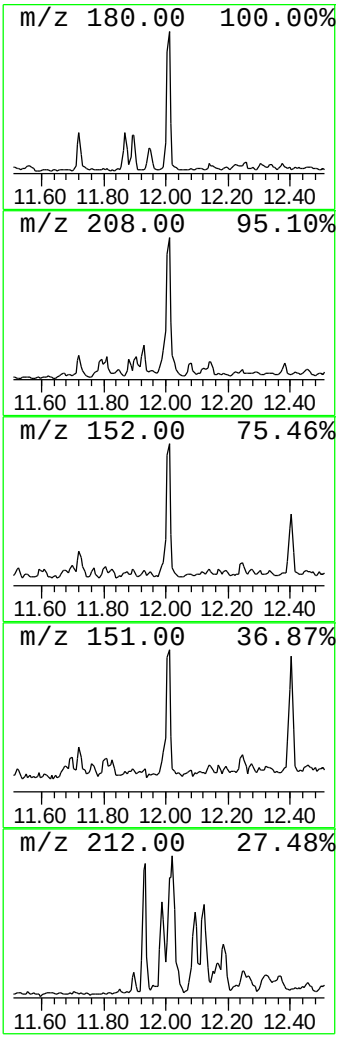
Peak Number 9 9,10-Anthracenedione Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.01	2.33 ng	382471	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	95
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	60
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	55
4	1,4-Anthracenedione	208	C14H8O2	000635-12-1	50
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	46





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Sample : K3041-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-2-S

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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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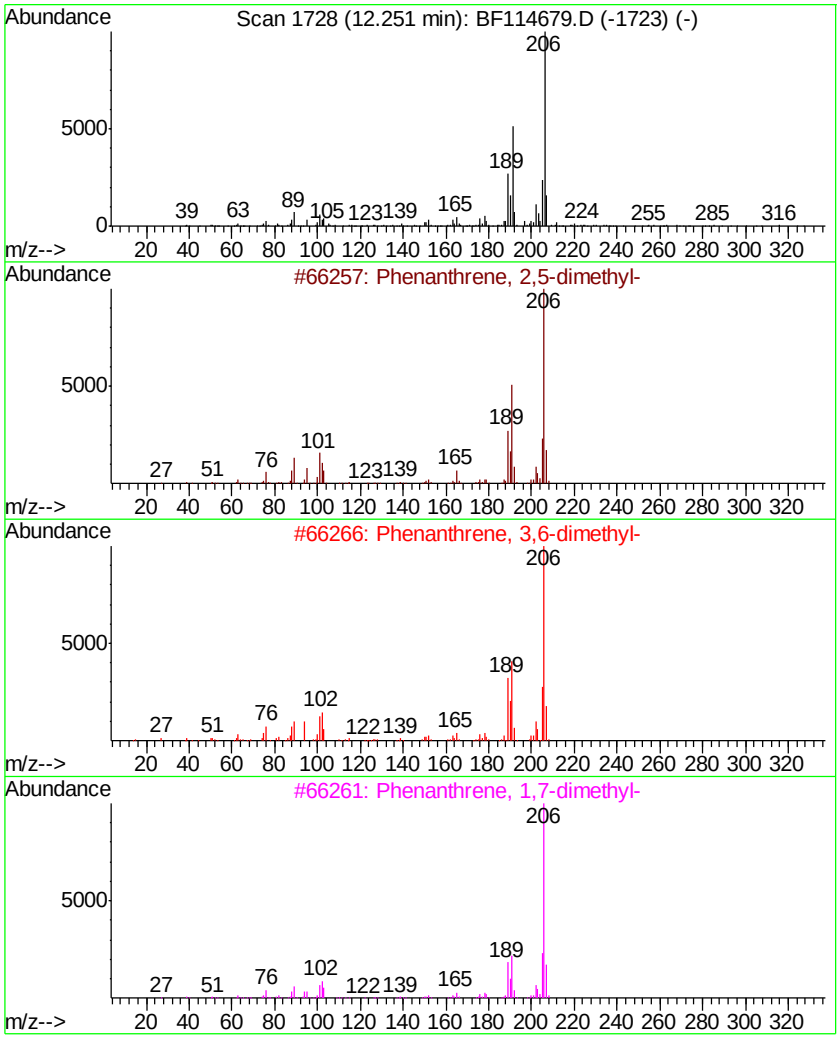
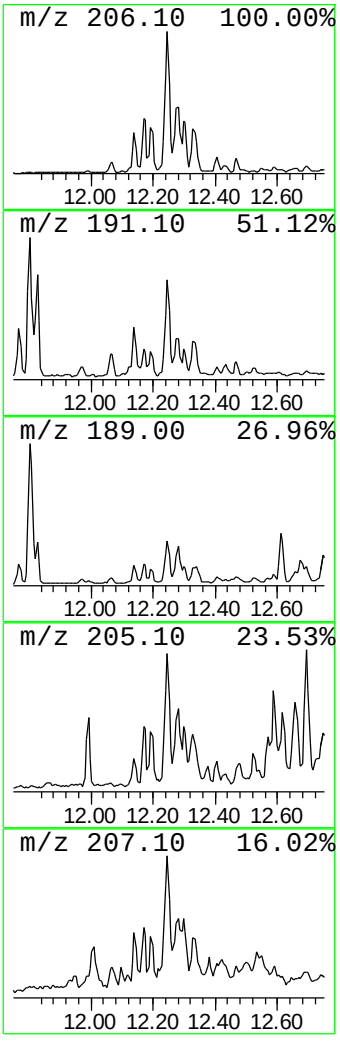
Peak Number 10 Phenanthrene, 2,5-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.25	4.08 ng	669551	Phenanthrene-d10	11.20

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	93
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	86





Library Search Compound Report

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Operator : HP/JU
Sample : K3041-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-2-S

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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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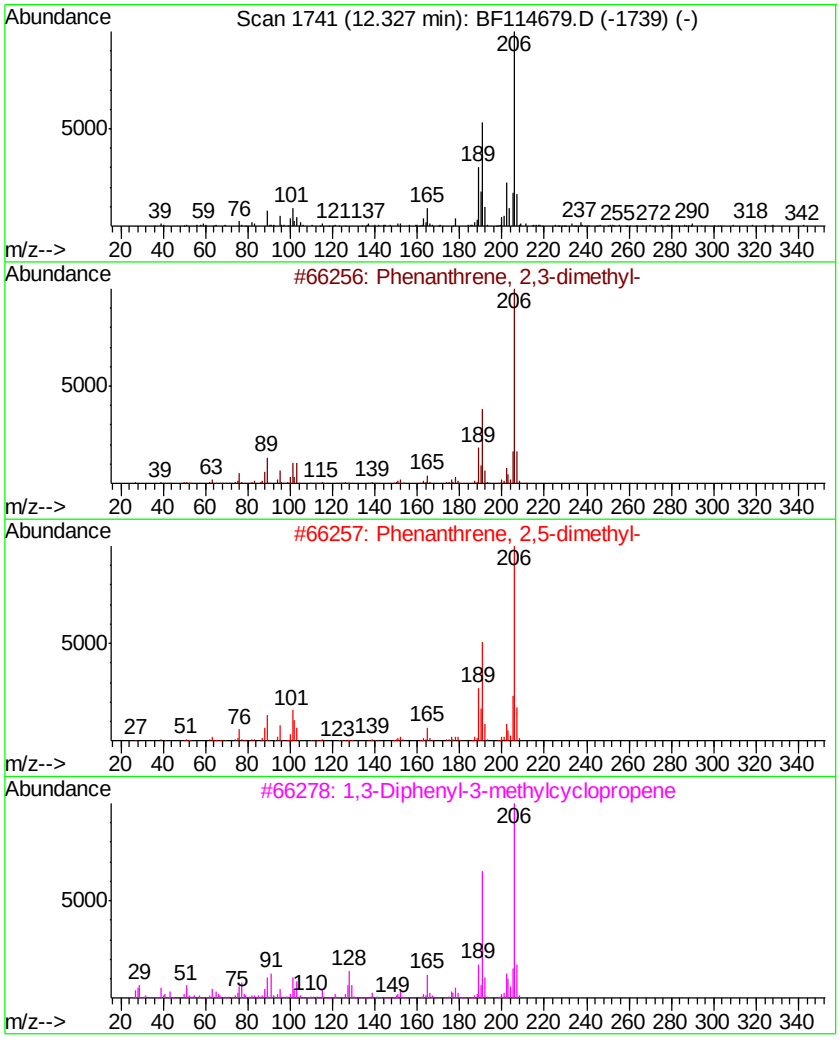
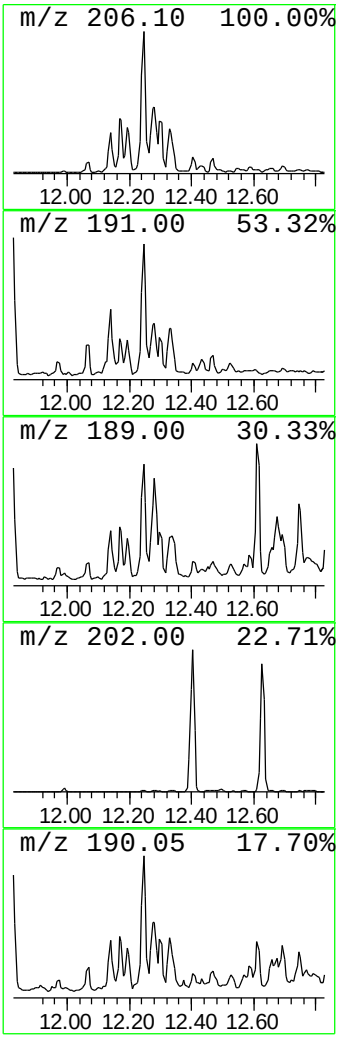
Peak Number 11 Phenanthrene, 2,3-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.33	2.16 ng	353741	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	91
3	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	87
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	83
5	1-Methyl-3-phenyl-1H-indene	206	C16H14	022360-62-9	83





Library Search Compound Report

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Sample : K3041-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

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ClientSampleId : TP-2-S

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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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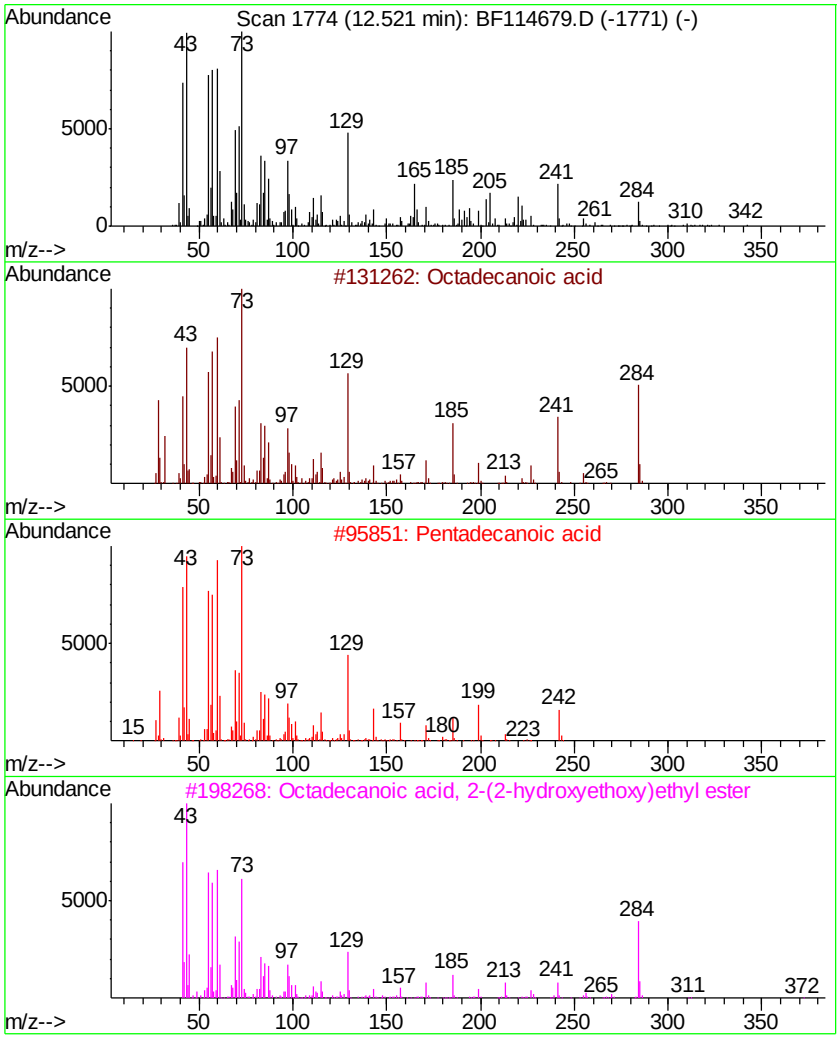
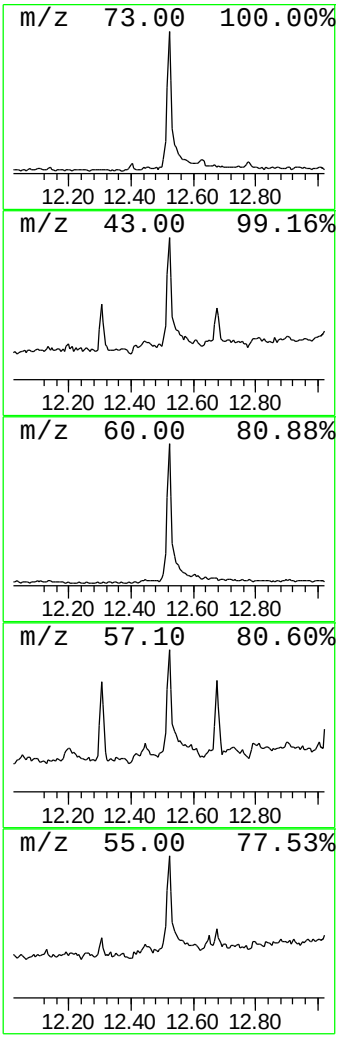
Peak Number 12 Octadecanoic acid Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.52	3.76 ng	845114	Chrysene-d12	13.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	70
3	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	68
4	n-Decanoic acid	172	C10H20O2	000334-48-5	50
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	49





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Sample : K3041-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-2-S

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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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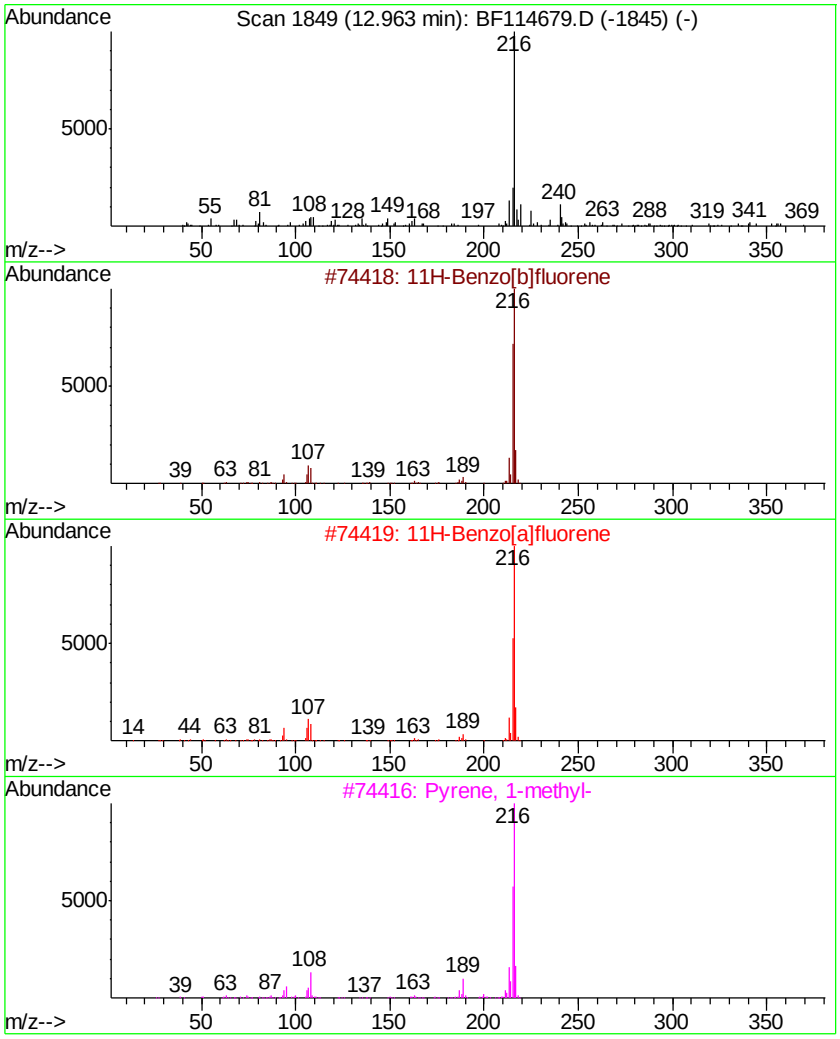
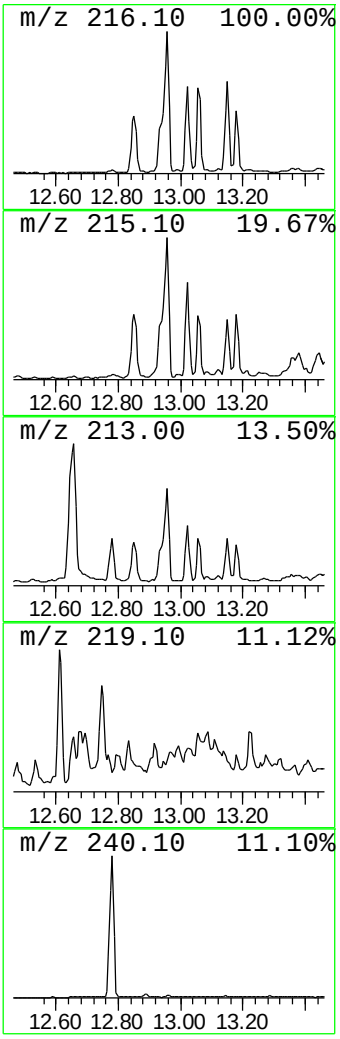
Peak Number 13 11H-Benzo[b]fluorene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.96	3.82 ng	857349	Chrysene-d12	13.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	83
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	76
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	74





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Misc :
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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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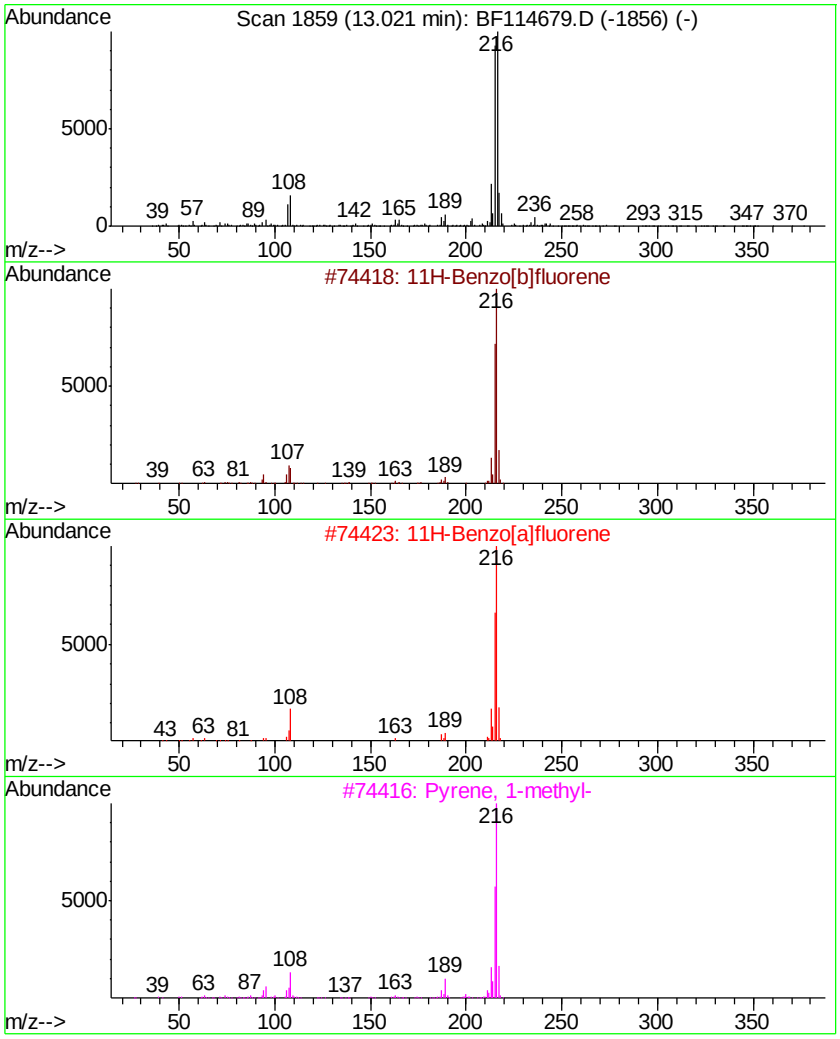
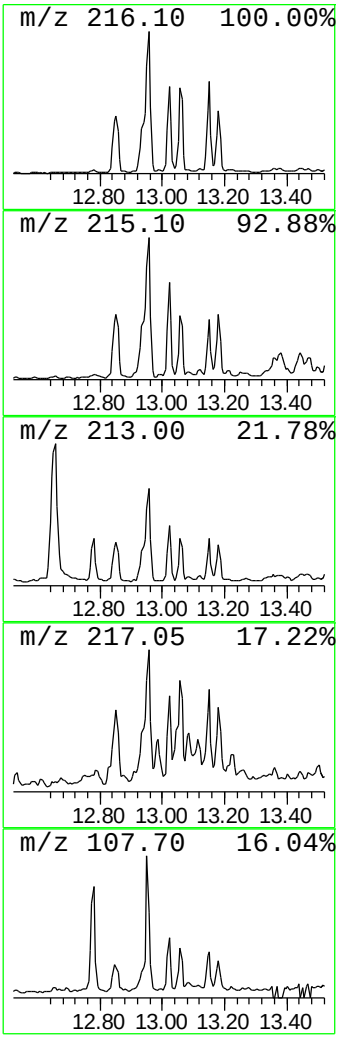
Peak Number 14 11H-Benzo[a]fluorene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.02	2.55 ng	572003	Chrysene-d12	13.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	92
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	64
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	64
5	trans-p-(Trifluoromethyl)cinnami...	216	C10H7F3O2	016642-92-5	59





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Misc :
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ClientSampleId : TP-2-S

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

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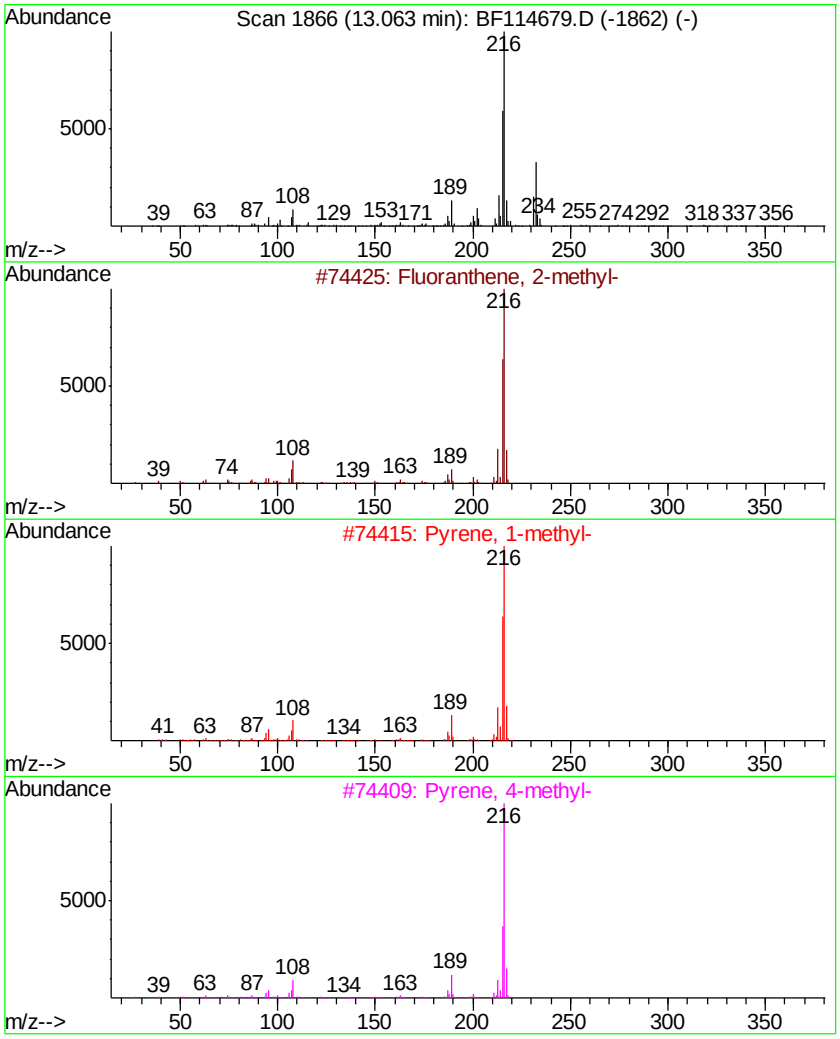
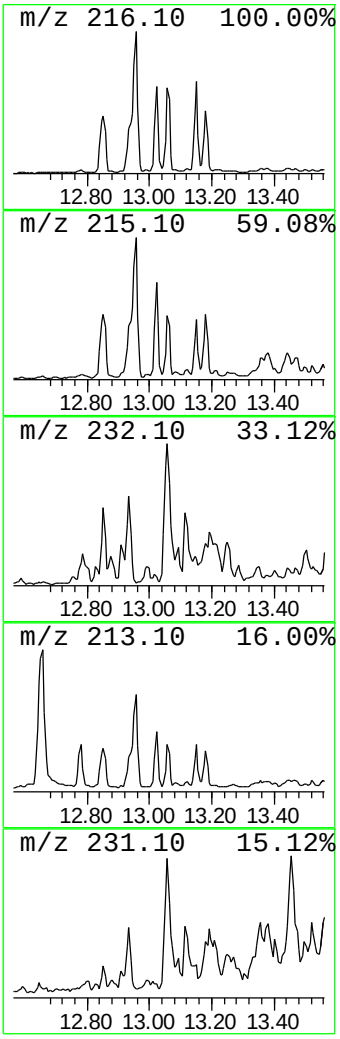
Peak Number 15 Fluoranthene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.06	2.58 ng	579953	Chrysene-d12	13.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
3	Pyrene, 4-methyl-	216	C17H12	003353-12-6	86
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	60
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	55





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Misc :
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Instrument : BNA_F
ClientSampleId : TP-2-S

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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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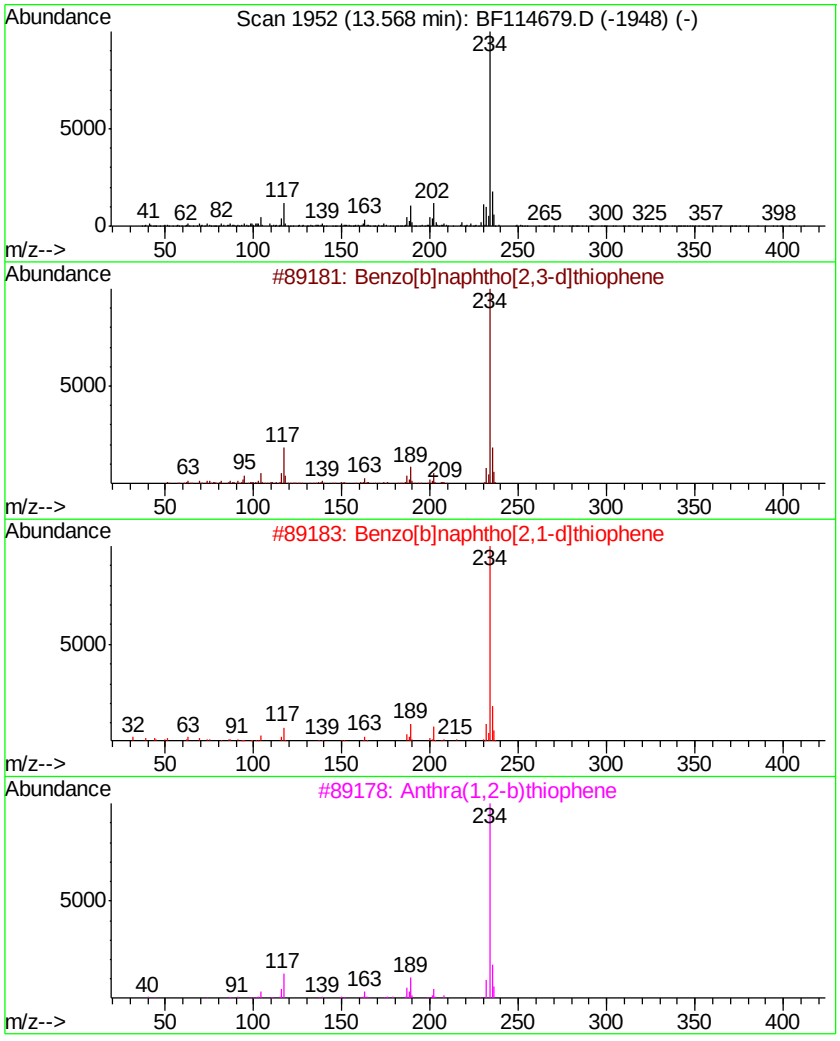
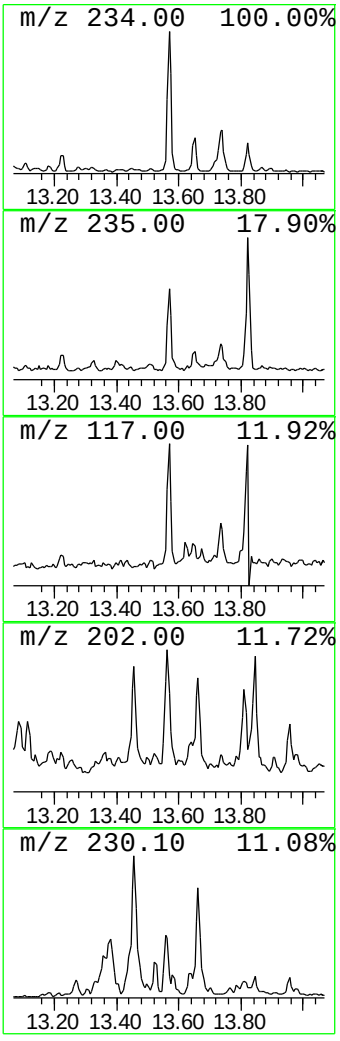
Peak Number 16 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	2.94 ng	659174	Chrysene-d12	13.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	94
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	93
3	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	91
4	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	72
5	Quinoxalino[2,3-b]quinoxaline, 5...	234	C14H10N4	000531-46-4	59





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TIC Library : C:\DATABASE\NIST11.L
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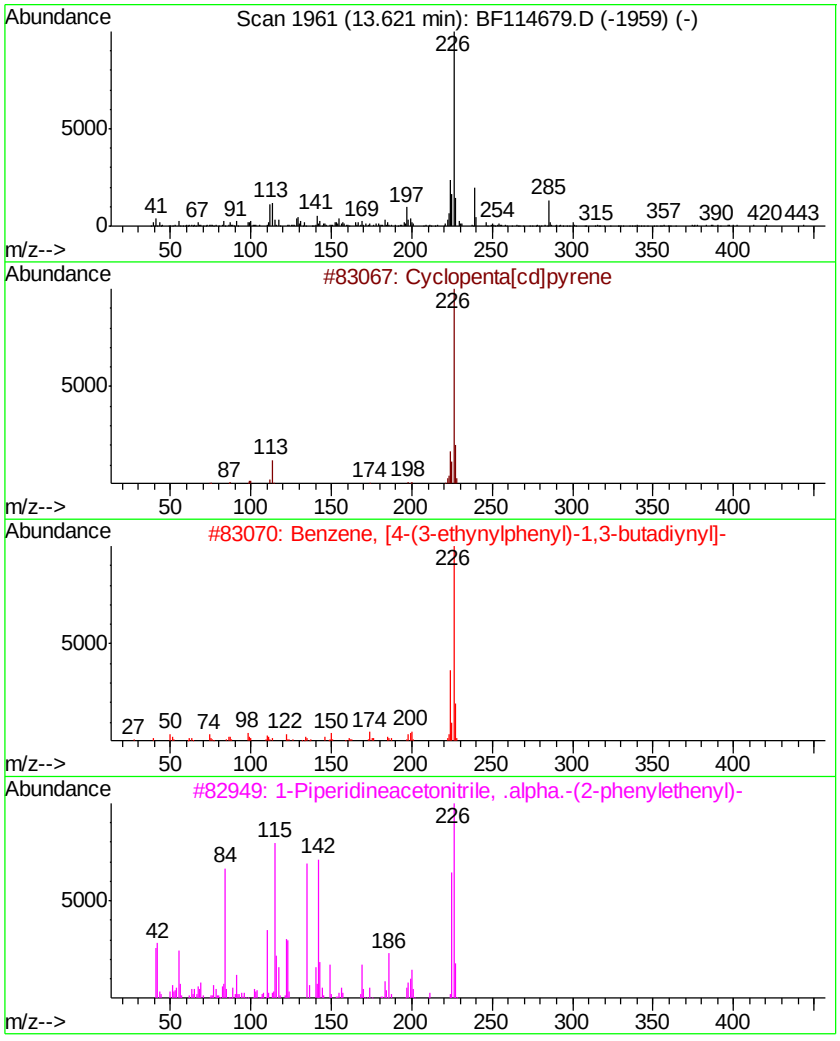
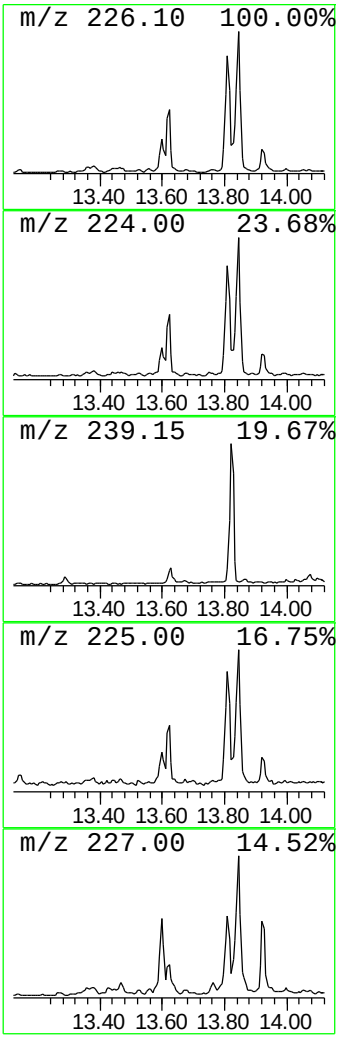
Peak Number 17 unknown13.62 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.62	2.96 ng	664569	Chrysene-d12	13.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	49
2	Benzene, [4-(3-ethynylphenyl)-1,...	226	C18H10	1000115-87-3	43
3	1-Piperidineacetonitrile, .alpha...	226	C15H18N2	022915-20-4	43
4	Propanoic acid, 3-hydroxy-2-(2,4...	285	C10H11N3O7	1000197-15-9	43
5	Fumaric acid, nonyl 3-oxobut-2-y...	312	C17H28O5	1000348-82-3	38





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Acq On : 30 May 2019 23:53
Operator : HP/JU
Sample : K3041-07
Misc :
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Instrument : BNA_F
ClientSampleId : TP-2-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.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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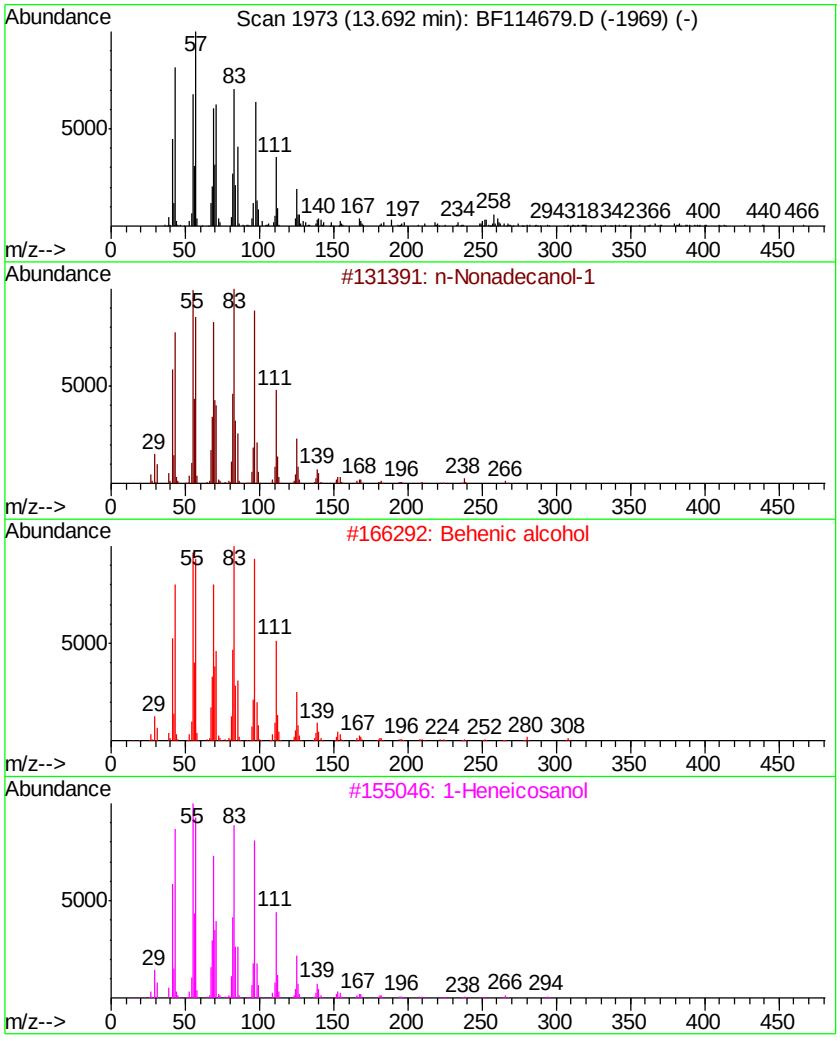
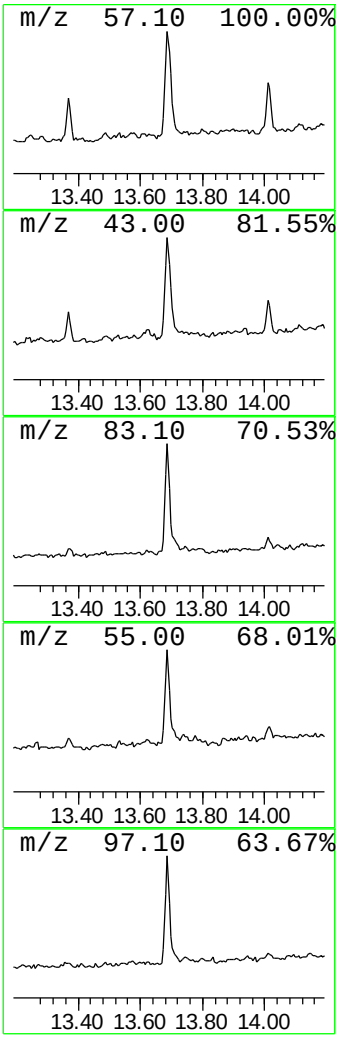
Peak Number 18 n-Nonadecanol-1 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.69	3.32 ng	745742	Chrysene-d12	13.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Nonadecanol-1	284	C19H40O	001454-84-8	94
2	Behenic alcohol	326	C22H46O	000661-19-8	94
3	1-Heneicosanol	312	C21H44O	015594-90-8	94
4	3-Eicosene, (E)-	280	C20H40	074685-33-9	91
5	2- Chloropropionic acid, hexadec...	332	C19H37ClO2	086711-81-1	91





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF053019\
Data File : BF114679.D
Acq On : 30 May 2019 23:53
Operator : HP/JU
Sample : K3041-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-2-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.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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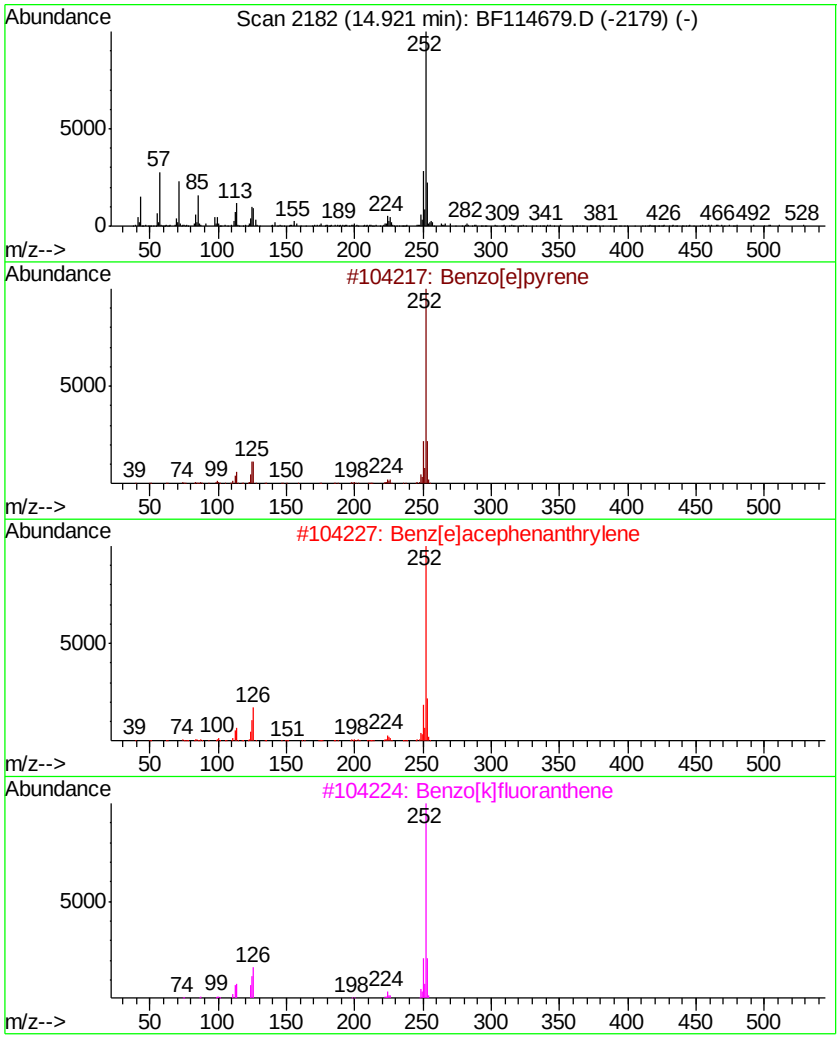
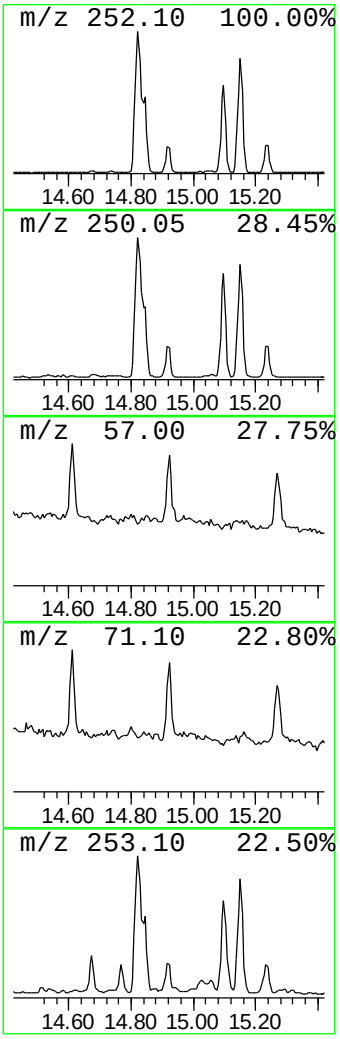
Peak Number 19 Benzo[e]pyrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.92	4.46 ng	403277	Perylene-d12	15.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	90
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	89
4	Benzo[a]pyrene	252	C20H12	000050-32-8	81
5	Perylene	252	C20H12	000198-55-0	76





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF053019\
Data File : BF114679.D
Acq On : 30 May 2019 23:53
Operator : HP/JU
Sample : K3041-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-2-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.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
unknown6.47	6.47	62.9	ng	7993060	1	6.70	2541250	20.0
Benzene, 1-propenyl-	6.88	2.4	ng	301911	1	6.70	2541250	20.0
Anthracene, 9-met...	11.70	4.1	ng	674454	4	11.20	3278840	20.0
Anthracene, 2-met...	11.72	5.7	ng	938229	4	11.20	3278840	20.0
n-Hexadecanoic acid	11.74	4.1	ng	667382	4	11.20	3278840	20.0
unknown11.80	11.80	6.5	ng	1064520	4	11.20	3278840	20.0
Tricyclo[8.2.2.2(...	11.99	2.2	ng	366147	4	11.20	3278840	20.0
9,10-Anthracenedione	12.01	2.3	ng	382471	4	11.20	3278840	20.0
Phenanthrene, 2,5...	12.25	4.1	ng	669551	4	11.20	3278840	20.0
Phenanthrene, 2,3...	12.33	2.2	ng	353741	4	11.20	3278840	20.0
Octadecanoic acid	12.52	3.8	ng	845114	5	13.82	4490050	20.0
11H-Benzo[b]fluorene	12.96	3.8	ng	857349	5	13.82	4490050	20.0
11H-Benzo[a]fluorene	13.02	2.5	ng	572003	5	13.82	4490050	20.0
Fluoranthene, 2-m...	13.06	2.6	ng	579953	5	13.82	4490050	20.0
Benzo[b]naphtho[2...	13.57	2.9	ng	659174	5	13.82	4490050	20.0
unknown13.62	13.62	3.0	ng	664569	5	13.82	4490050	20.0
n-Nonadecanol-1	13.69	3.3	ng	745742	5	13.82	4490050	20.0
Benzo[e]pyrene	14.92	4.5	ng	403277	6	15.21	1808300	20.0