

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
 Data File : BF115885.D
 Acq On : 31 Jul 2019 23:52
 Operator : HP/JU
 Sample : K3618-09
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-073019

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

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-BF073019.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	2.128	3	7	19	rVB	796692	1027454	27.12%	1.647%
2	5.475	572	576	595	rBV	2526469	2632885	69.49%	4.221%
3	6.487	743	748	767	rBV	2788726	2818036	74.38%	4.518%
4	6.622	767	771	775	rBV	2897769	2772350	73.17%	4.445%
5	6.851	807	810	817	rBV	1067035	862057	22.75%	1.382%
6	7.010	833	837	840	rBV	2707236	2248513	59.35%	3.605%
7	7.410	901	905	908	rBV	1880526	1720736	45.42%	2.759%
8	8.133	1024	1028	1031	rBV	1281872	1057713	27.92%	1.696%
9	8.951	1162	1167	1173	rBV2	49392	65776	1.74%	0.105%
10	9.210	1207	1211	1215	rBV	3288322	3036481	80.14%	4.868%
11	9.551	1266	1269	1271	rBV	73407	59629	1.57%	0.096%
12	9.604	1275	1278	1282	rVV	479293	396780	10.47%	0.636%
13	9.751	1300	1303	1308	rBV	104917	103291	2.73%	0.166%
14	9.892	1320	1327	1330	rBV	1394140	1145351	30.23%	1.836%
15	9.922	1330	1332	1336	rVB	222252	199019	5.25%	0.319%
16	10.098	1358	1362	1366	rVB	117375	120073	3.17%	0.193%
17	10.210	1378	1381	1384	rBV2	57214	59362	1.57%	0.095%
18	10.322	1398	1400	1403	rVB2	79066	69831	1.84%	0.112%
19	10.439	1417	1420	1426	rVB	255491	246762	6.51%	0.396%
20	10.504	1426	1431	1433	rBV	47525	66429	1.75%	0.107%
21	10.598	1444	1447	1450	rVB	83627	73639	1.94%	0.118%
22	10.680	1455	1461	1473	rBV	1707964	1627050	42.94%	2.609%
23	10.798	1478	1481	1489	rVB3	115589	190324	5.02%	0.305%
24	10.992	1509	1514	1516	rBV2	89743	109673	2.89%	0.176%
25	11.016	1516	1518	1521	rVV2	67783	63030	1.66%	0.101%
26	11.116	1531	1535	1537	rBV3	56877	75497	1.99%	0.121%
27	11.139	1537	1539	1544	rVV	67868	72211	1.91%	0.116%
28	11.186	1544	1547	1551	rVV2	65967	65733	1.73%	0.105%
29	11.245	1551	1557	1560	rVV3	116180	166431	4.39%	0.267%
30	11.274	1560	1562	1568	rVB	196212	184676	4.87%	0.296%
31	11.380	1576	1580	1582	rBV	1116084	1034495	27.30%	1.659%
32	11.404	1582	1584	1587	rVV	2317306	1877537	49.55%	3.010%
33	11.457	1590	1593	1596	rVB	552559	481061	12.70%	0.771%
34	11.492	1596	1599	1602	rBV2	74041	83480	2.20%	0.134%

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
 Data File : BF115885.D
 Acq On : 31 Jul 2019 23:52
 Operator : HP/JU
 Sample : K3618-09
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-073019

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 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-BF073019.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.610	1613	1619	1621	rBV	220399	228662	6.04%	0.367%
36	11.674	1627	1630	1632	rBV	139815	117652	3.11%	0.189%
37	11.710	1633	1636	1641	rVB2	116007	120864	3.19%	0.194%
38	11.769	1643	1646	1649	rVV	447277	376676	9.94%	0.604%
39	11.880	1662	1665	1667	rBV	366880	312627	8.25%	0.501%
40	11.910	1667	1670	1675	rVV	668717	582236	15.37%	0.933%
41	11.957	1675	1678	1681	rVV	153633	134411	3.55%	0.215%
42	11.992	1681	1684	1687	rVV	685628	741560	19.57%	1.189%
43	12.016	1687	1688	1692	rVB	278233	180734	4.77%	0.290%
44	12.080	1697	1699	1702	rVB2	99131	82918	2.19%	0.133%
45	12.174	1712	1715	1717	rVV	284597	233849	6.17%	0.375%
46	12.204	1717	1720	1724	rVB2	272415	249917	6.60%	0.401%
47	12.327	1739	1741	1743	rVV	101127	70052	1.85%	0.112%
48	12.357	1743	1746	1748	rVV	114075	86969	2.30%	0.139%
49	12.380	1748	1750	1753	rVB2	89664	70904	1.87%	0.114%
50	12.433	1755	1759	1761	rBV	264972	307751	8.12%	0.493%
51	12.457	1761	1763	1764	rVV	798609	632539	16.69%	1.014%
52	12.474	1764	1766	1772	rVV	1317259	1355159	35.77%	2.173%
53	12.521	1772	1774	1778	rVB2	151793	163751	4.32%	0.263%
54	12.563	1778	1781	1783	rBV2	275536	210822	5.56%	0.338%
55	12.598	1783	1787	1790	rBV	3535049	3366678	88.86%	5.398%
56	12.657	1795	1797	1800	rVB	109302	94014	2.48%	0.151%
57	12.692	1800	1803	1805	rBV2	80788	73378	1.94%	0.118%
58	12.745	1806	1812	1816	rBV2	150705	205636	5.43%	0.330%
59	12.827	1819	1826	1831	rBV2	3127671	3788871	100.00%	6.074%
60	12.874	1831	1834	1838	rVB2	151671	195678	5.16%	0.314%
61	12.963	1842	1849	1852	rBV	2839358	2807151	74.09%	4.500%
62	13.039	1858	1862	1866	rBV3	245066	409229	10.80%	0.656%
63	13.068	1866	1867	1870	rVV	96765	80975	2.14%	0.130%
64	13.098	1870	1872	1874	rVV2	68356	58894	1.55%	0.094%
65	13.127	1874	1877	1879	rVV4	231564	305497	8.06%	0.490%
66	13.151	1879	1881	1884	rVB	689459	602208	15.89%	0.965%
67	13.198	1884	1889	1890	rBV3	85847	111418	2.94%	0.179%
68	13.216	1890	1892	1895	rVV	559260	532031	14.04%	0.853%
69	13.257	1895	1899	1901	rVV2	387305	412604	10.89%	0.661%
70	13.280	1901	1903	1906	rVV2	122588	132606	3.50%	0.213%
71	13.345	1912	1914	1917	rBV	189612	173065	4.57%	0.277%

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF073119\
 Data File : BF115885.D
 Acq On : 31 Jul 2019 23:52
 Operator : HP/JU
 Sample : K3618-09
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-073019

Integration Parameters: rteint.p

Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 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-BF073019.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.380	1917	1920	1923	rBV	216893	218279	5.76%	0.350%
73	13.533	1943	1946	1948	rBV2	92435	116852	3.08%	0.187%
74	13.633	1960	1963	1965	rBV	113143	126403	3.34%	0.203%
75	13.663	1965	1968	1972	rVB	189167	239134	6.31%	0.383%
76	13.768	1983	1986	1989	rBV2	320454	366499	9.67%	0.588%
77	13.798	1989	1991	1993	rVV	290038	224664	5.93%	0.360%
78	13.821	1993	1995	2000	rVV2	246200	317997	8.39%	0.510%
79	13.868	2000	2003	2011	rVB3	318875	444209	11.72%	0.712%
80	13.939	2013	2015	2021	rVB	93184	123951	3.27%	0.199%
81	14.015	2022	2028	2032	rBV3	2074004	3223269	85.07%	5.168%
82	14.051	2032	2034	2037	rVB	1770718	1353555	35.72%	2.170%
83	14.110	2042	2044	2045	rBV	90709	72535	1.91%	0.116%
84	14.127	2045	2047	2050	rVV	413098	345392	9.12%	0.554%
85	14.180	2052	2056	2059	rVV3	141042	245133	6.47%	0.393%
86	14.210	2059	2061	2064	rVB2	133002	113418	2.99%	0.182%
87	14.245	2064	2067	2071	rBV2	175286	217294	5.74%	0.348%
88	14.410	2091	2095	2098	rBV	339688	348252	9.19%	0.558%
89	14.439	2098	2100	2104	rVV2	171212	179873	4.75%	0.288%
90	14.486	2105	2108	2110	rVV3	173285	204322	5.39%	0.328%
91	14.533	2114	2116	2118	rVV2	250890	235805	6.22%	0.378%
92	14.557	2118	2120	2123	rVB	274571	219584	5.80%	0.352%
93	14.792	2158	2160	2164	rBV3	101843	99085	2.62%	0.159%
94	15.068	2202	2207	2210	rBV	1298749	2028364	53.53%	3.252%
95	15.174	2222	2225	2229	rBV	254425	246127	6.50%	0.395%
96	15.368	2254	2258	2264	rVB	709259	998477	26.35%	1.601%
97	15.433	2265	2269	2274	rBV	1069214	1377793	36.36%	2.209%
98	15.498	2276	2280	2283	rBV	632690	838281	22.12%	1.344%
99	16.974	2525	2531	2538	rVB	417024	785184	20.72%	1.259%
100	17.415	2601	2606	2617	rVB	288177	641236	16.92%	1.028%

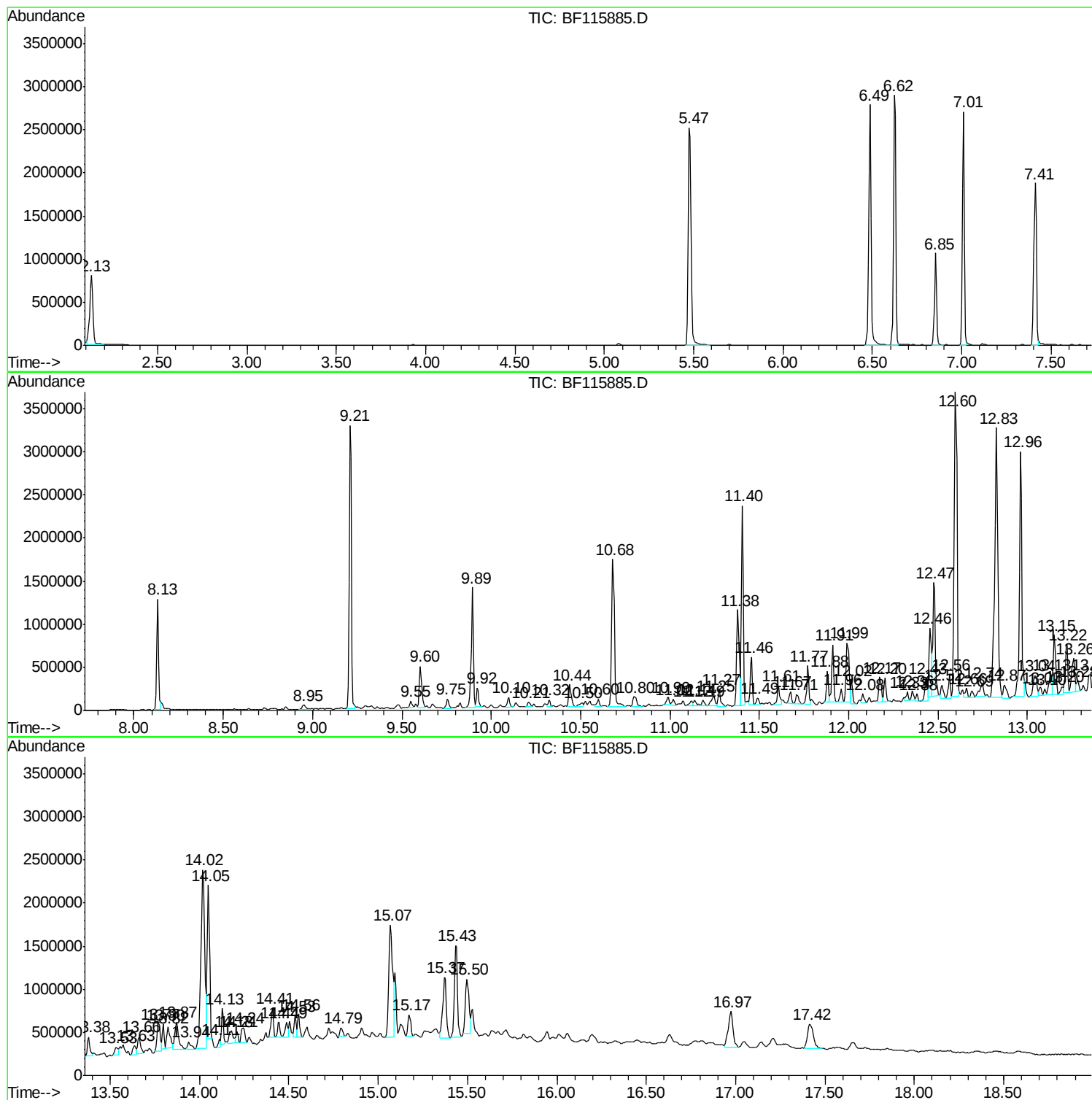
Sum of corrected areas: 62374318

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115885.D
Acq On : 31 Jul 2019 23:52
Operator : HP/JU
Sample : K3618-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
HD-02-073019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115885.D
Acq On : 31 Jul 2019 23:52
Operator : HP/JU
Sample : K3618-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
HD-02-073019

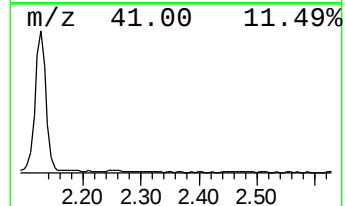
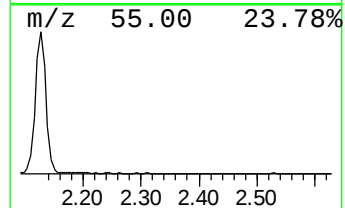
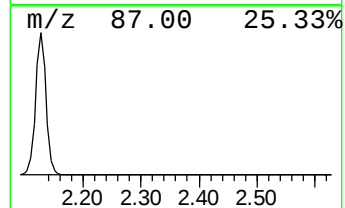
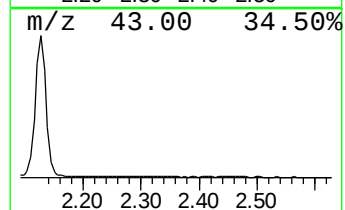
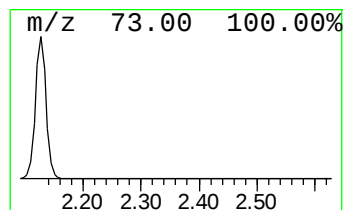
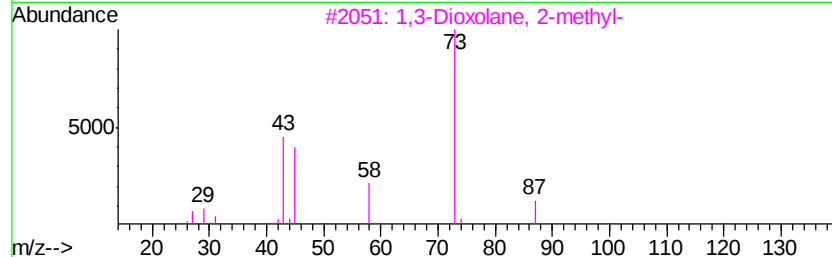
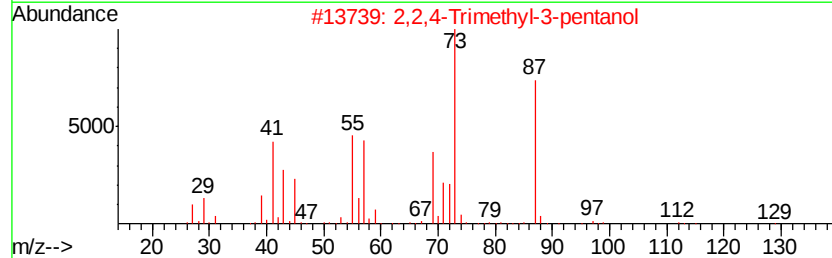
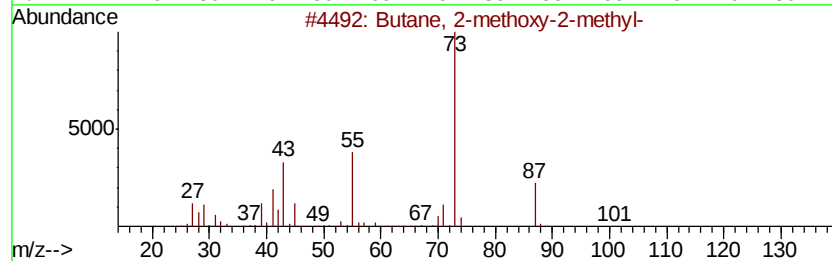
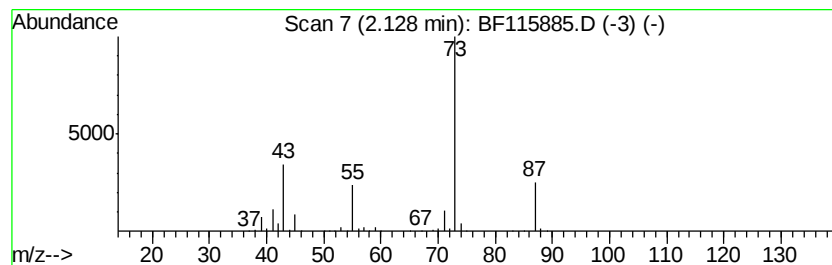
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.13	23.84 ng	1027450	1,4-Dichlorobenzene-d4	6.85

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2		2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3		1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
4		Pentane, 3-methoxy-	102	C6H14O	036839-67-5	23
5		Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115885.D
Acq On : 31 Jul 2019 23:52
Operator : HP/JU
Sample : K3618-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
HD-02-073019

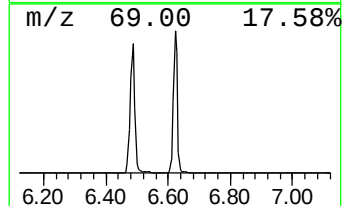
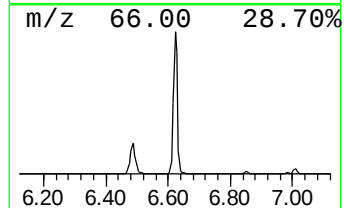
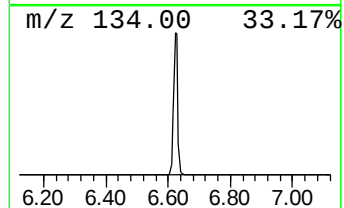
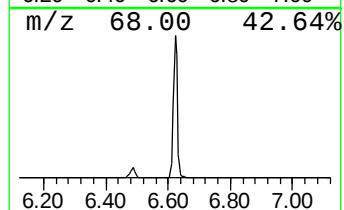
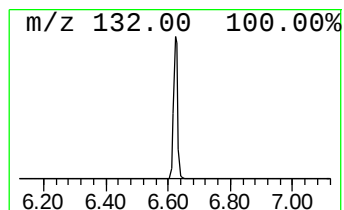
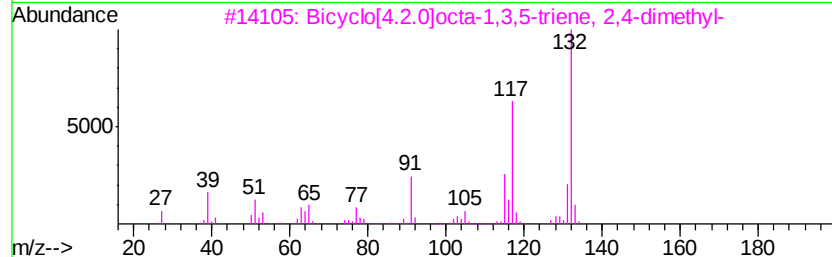
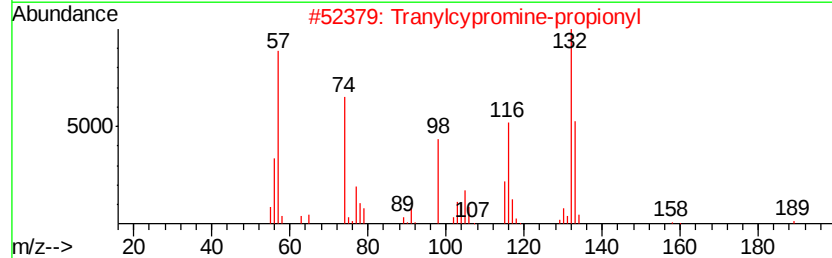
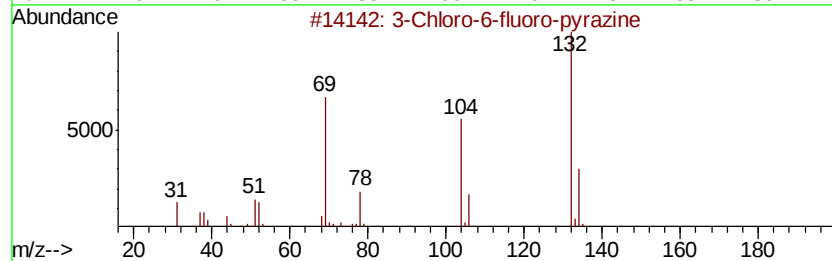
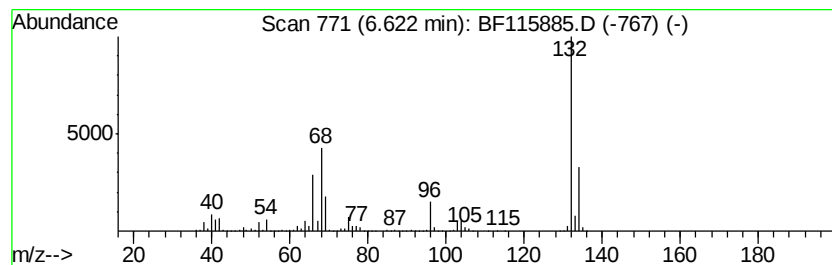
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 unknown6.62 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.62	64.32 ng	2772350	1,4-Dichlorobenzene-d4	6.85

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2		Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
3		Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
4		Benzene, 1-ethenyl-3,5-dimethyl-	132	C10H12	005379-20-4	9
5		(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	9



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
 Data File : BF115885.D
 Acq On : 31 Jul 2019 23:52
 Operator : HP/JU
 Sample : K3618-09
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-073019

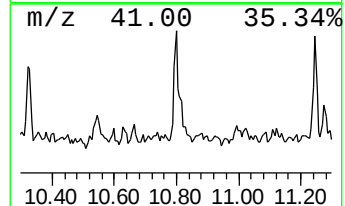
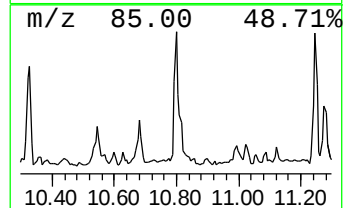
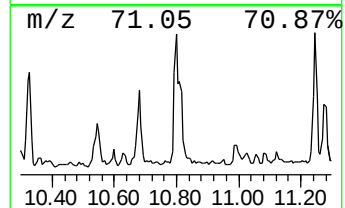
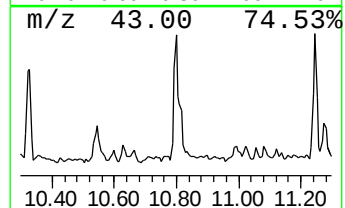
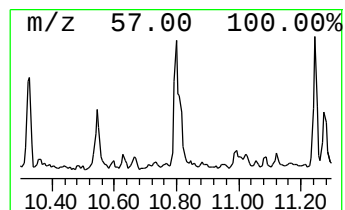
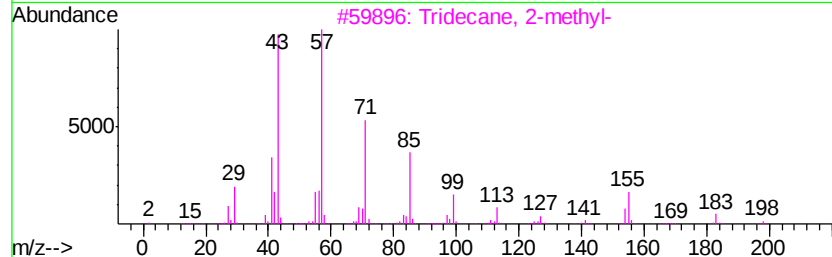
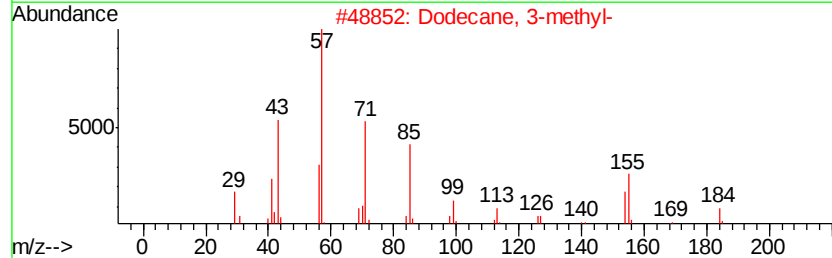
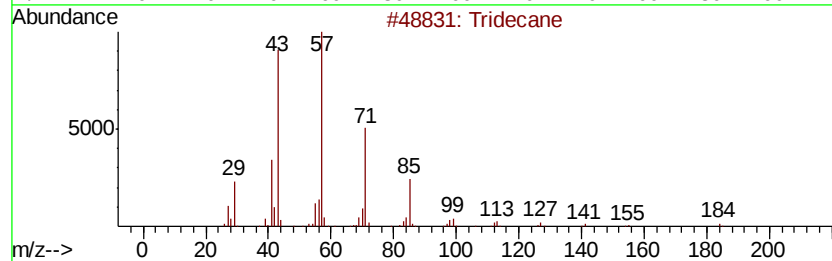
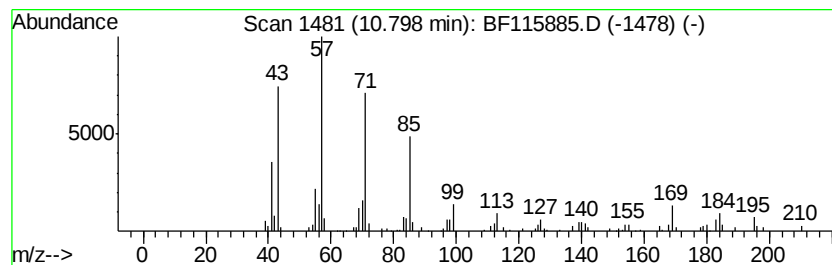
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

 Peak Number 4 Tridecane Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.80	3.68 ng	190324	Phenanthrene-d10	11.38

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Tridecane	184	C13H28	000629-50-5	91
2		Dodecane, 3-methyl-	184	C13H28	017312-57-1	87
3		Tridecane, 2-methyl-	198	C14H30	001560-96-9	81
4		Tetradecane	198	C14H30	000629-59-4	81
5		Heneicosane	296	C21H44	000629-94-7	81



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115885.D
Acq On : 31 Jul 2019 23:52
Operator : HP/JU
Sample : K3618-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
HD-02-073019

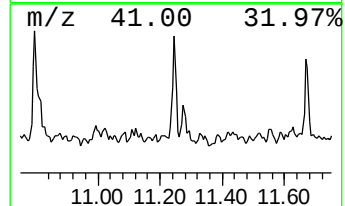
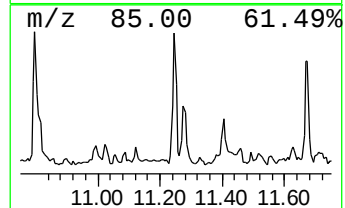
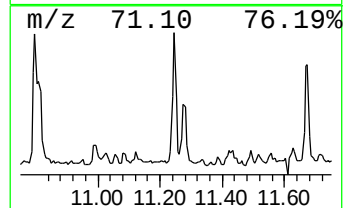
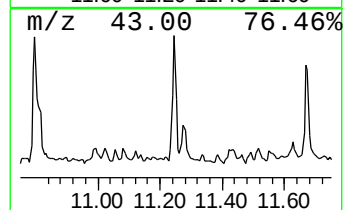
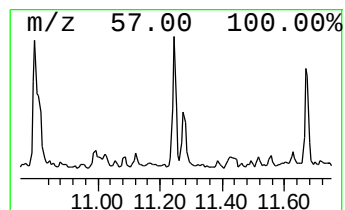
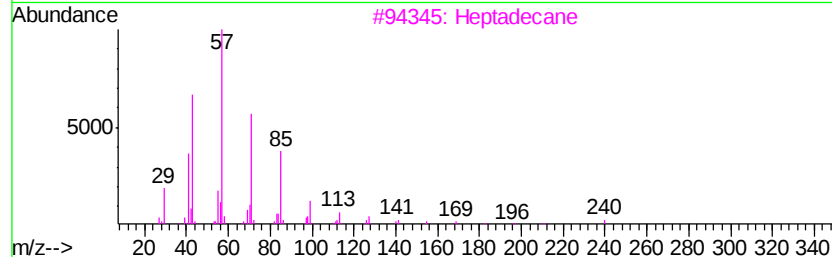
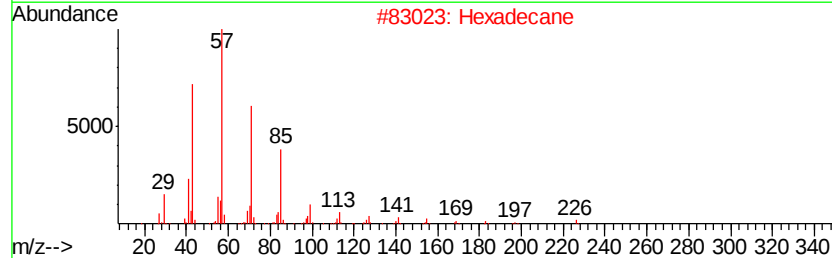
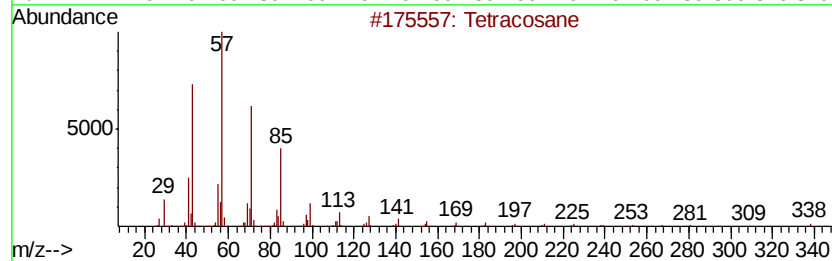
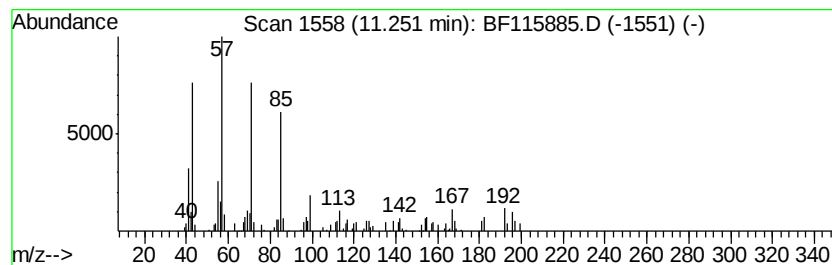
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Tetracosane Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.25	3.22 ng	166431	Phenanthrene-d10	11.38

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Tetracosane	338	C24H50	000646-31-1	68
2		Hexadecane	226	C16H34	000544-76-3	68
3		Heptadecane	240	C17H36	000629-78-7	68
4		Octadecane	254	C18H38	000593-45-3	64
5		Pentadecane	212	C15H32	000629-62-9	64



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115885.D
Acq On : 31 Jul 2019 23:52
Operator : HP/JU
Sample : K3618-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

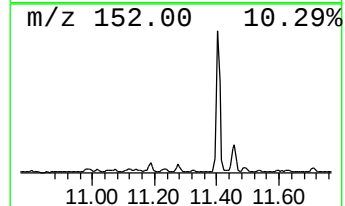
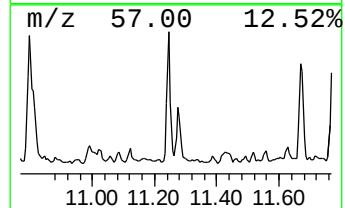
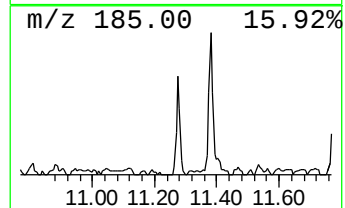
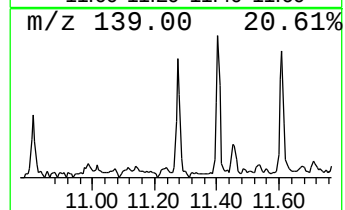
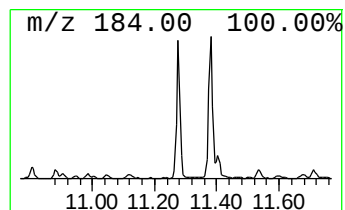
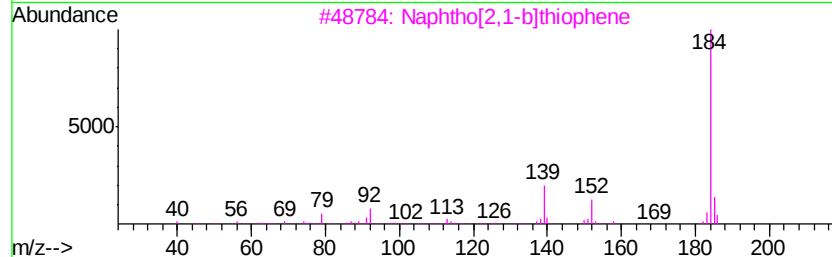
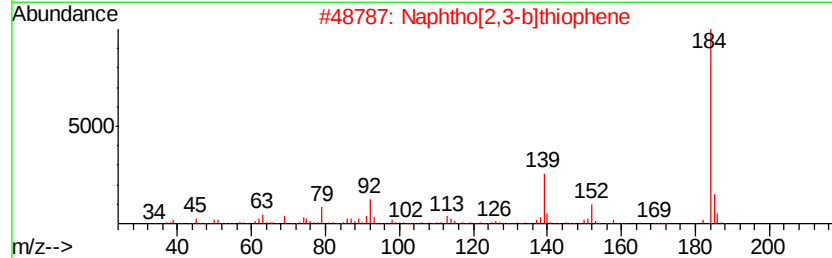
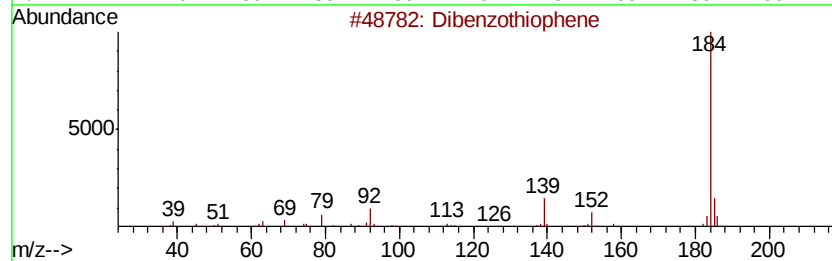
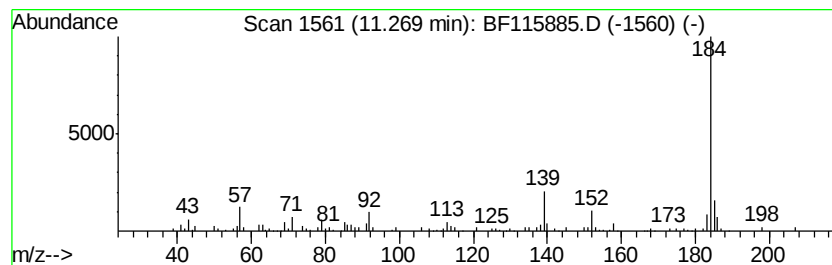
Instrument :
BNA_F
ClientSampleId :
HD-02-073019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Dibenzothiophene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD		R.T.
11.27	3.57 ng	184676	Phenanthrene-d10		11.38
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	94
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
3	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	93
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	91
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115885.D
Acq On : 31 Jul 2019 23:52
Operator : HP/JU
Sample : K3618-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
HD-02-073019

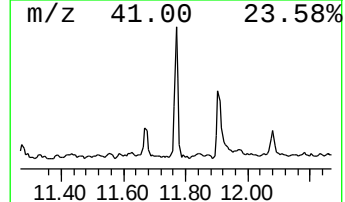
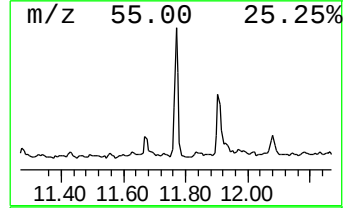
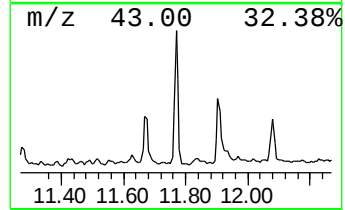
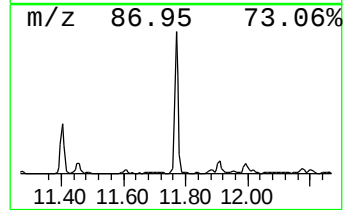
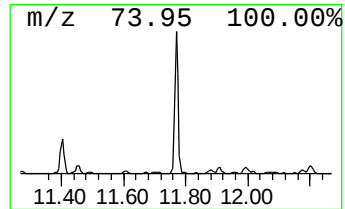
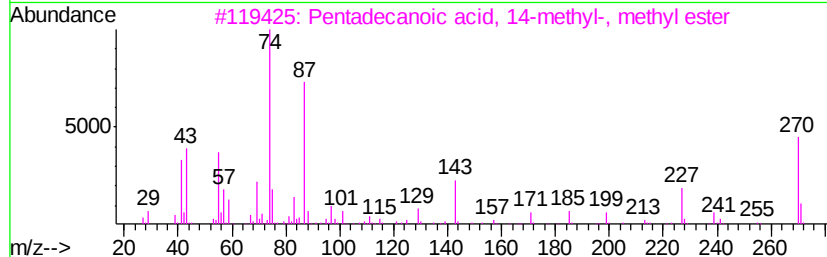
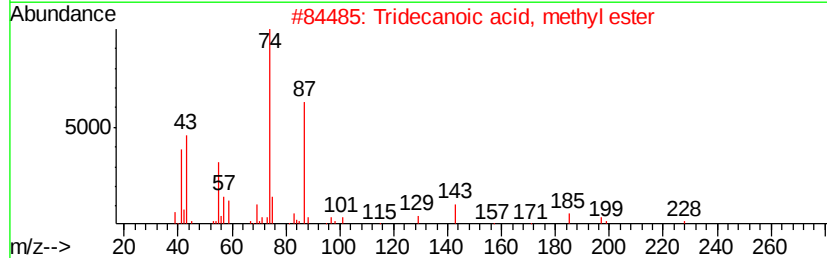
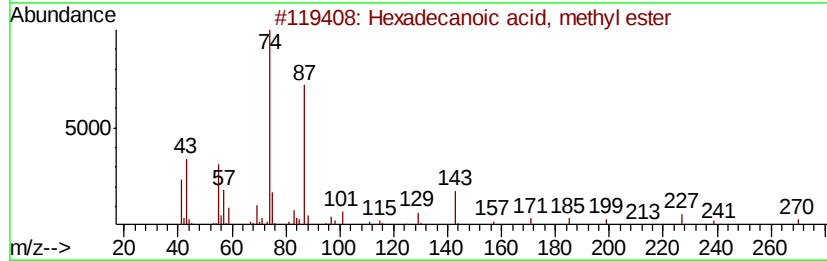
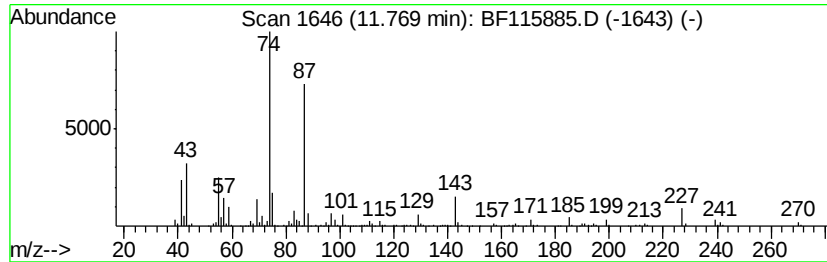
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Hexadecanoic acid, methyl e... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.77	7.28 ng	376676	Phenanthrene-d10	11.38

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Hexadecanoic acid, methyl ester	270	C17H34O2	000112-39-0	99
2		Tridecanoic acid, methyl ester	228	C14H28O2	001731-88-0	93
3		Pentadecanoic acid, 14-methyl-, ...	270	C17H34O2	005129-60-2	92
4		Pentadecanoic acid, methyl ester	256	C16H32O2	007132-64-1	90
5		Dodecanoic acid, methyl ester	214	C13H26O2	000111-82-0	86



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115885.D
Acq On : 31 Jul 2019 23:52
Operator : HP/JU
Sample : K3618-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

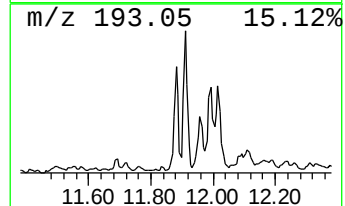
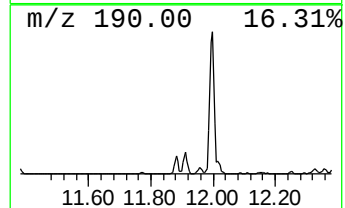
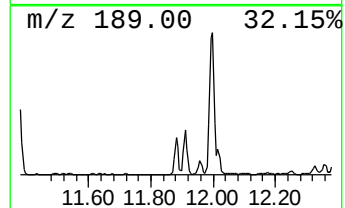
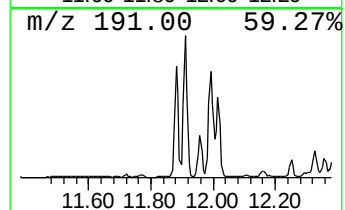
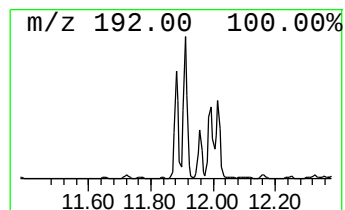
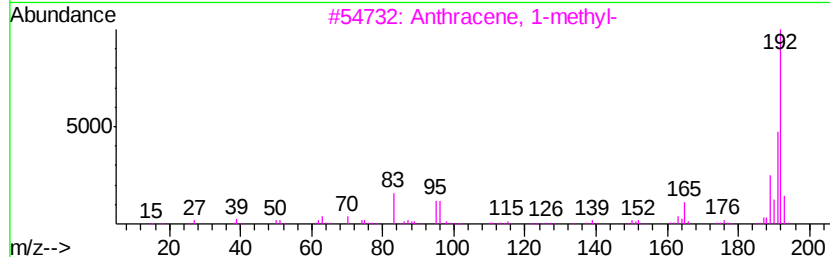
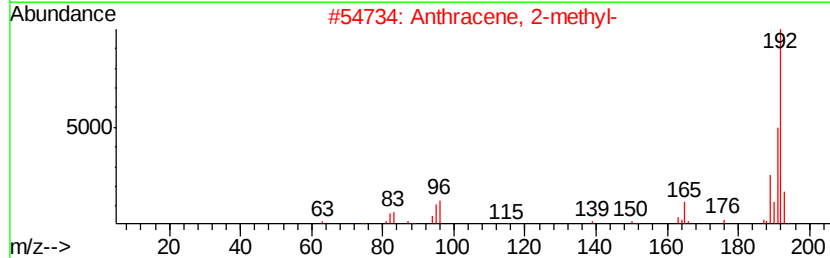
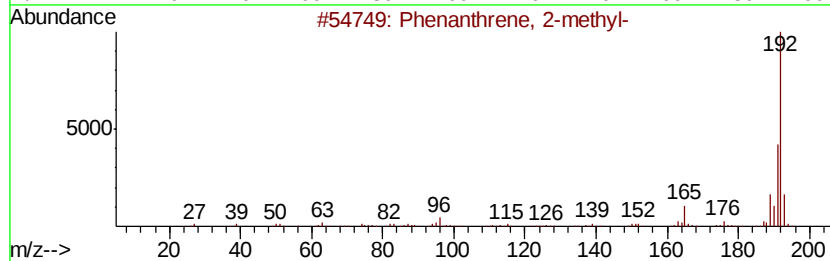
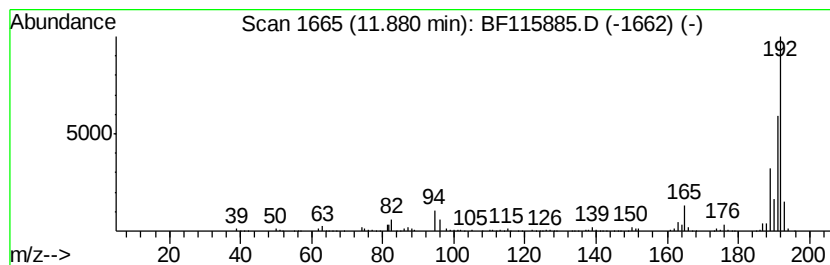
Instrument :
BNA_F
ClientSampleId :
HD-02-073019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.88	6.04 ng	312627	Phenanthrene-d10	11.38	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	89



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115885.D
Acq On : 31 Jul 2019 23:52
Operator : HP/JU
Sample : K3618-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
HD-02-073019

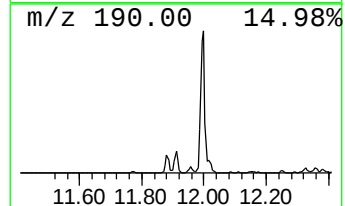
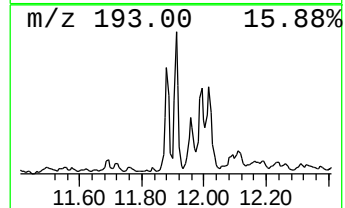
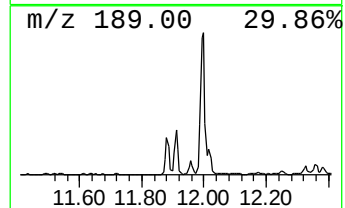
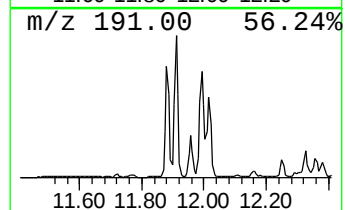
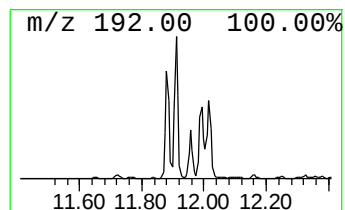
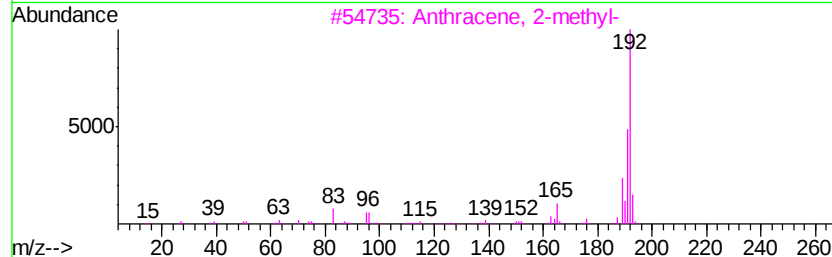
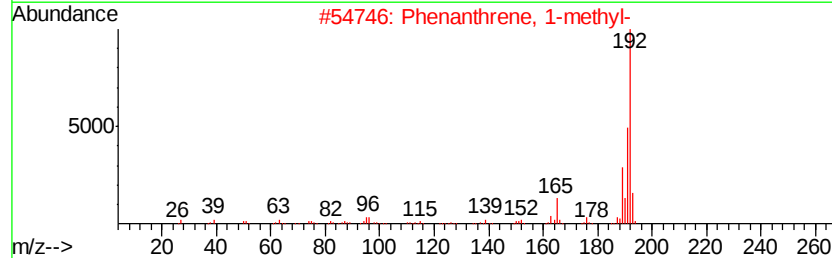
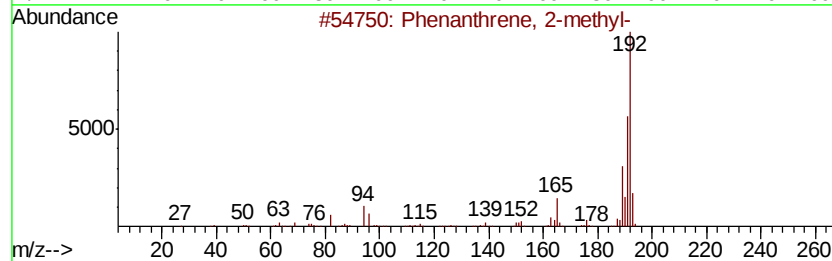
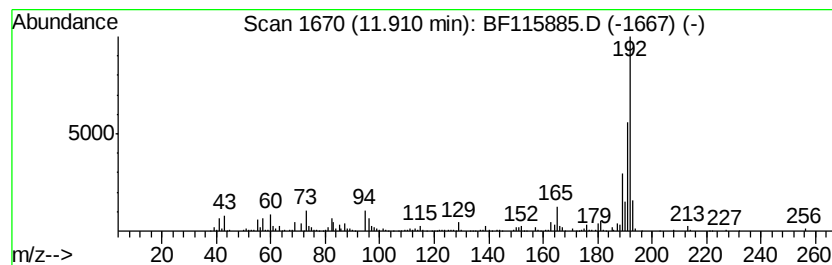
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Phenanthrene, 1-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.91	11.26 ng	582236	Phenanthrene-d10	11.38

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3		Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4		1H-Cyclopropa[1,1]phenanthrene, 1a,...	192	C15H12	000949-41-7	96
5		Anthracene, 9-methyl-	192	C15H12	000779-02-2	93



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115885.D
Acq On : 31 Jul 2019 23:52
Operator : HP/JU
Sample : K3618-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

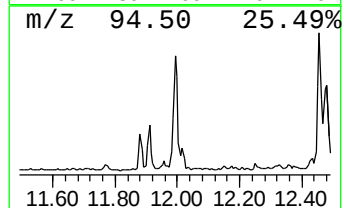
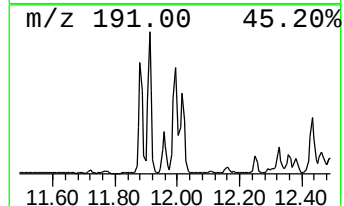
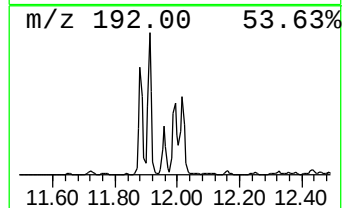
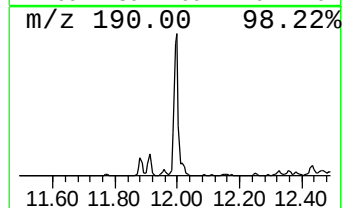
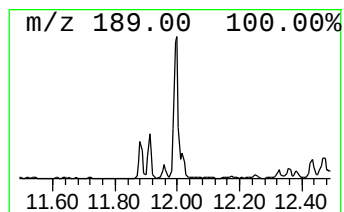
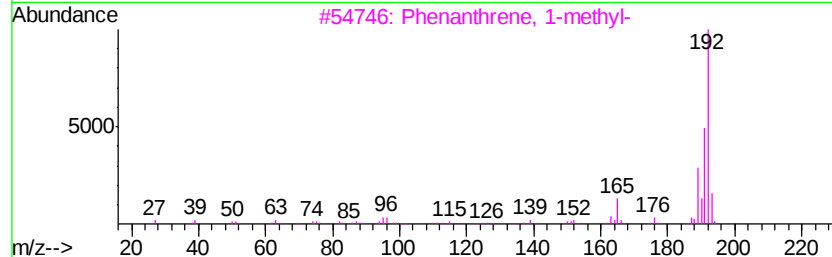
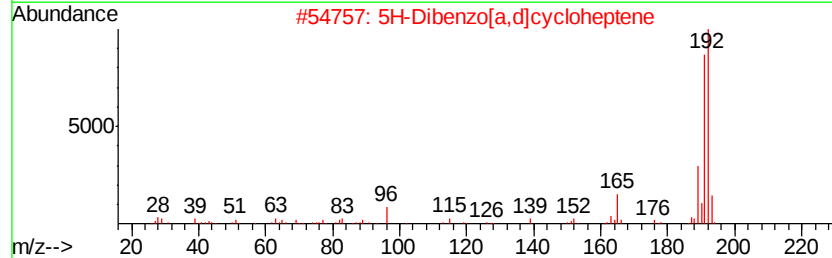
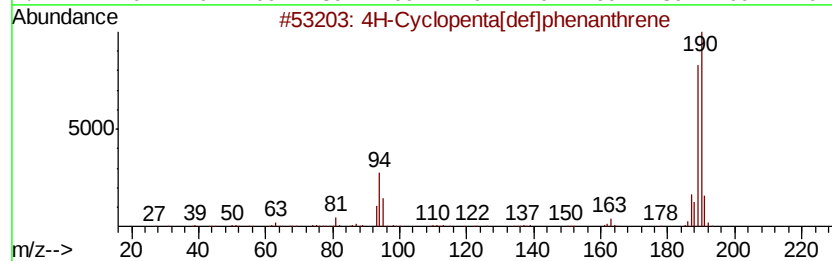
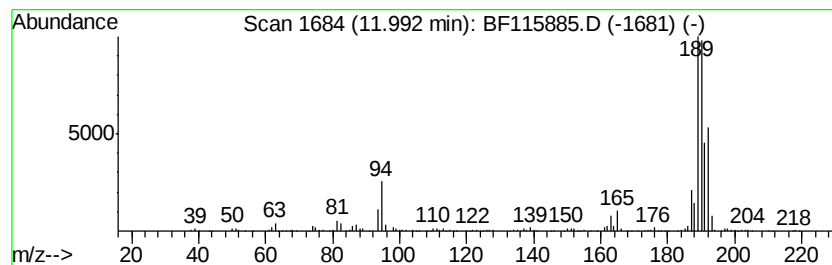
Instrument :
BNA_F
ClientSampleId :
HD-02-073019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.99	14.34 ng	741560	Phenanthrene-d10	11.38	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	92
2	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	25
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	25
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	25
5	Benzene, 1,1'-(1,2-propadienyld...	192	C15H12	014251-57-1	22



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115885.D
Acq On : 31 Jul 2019 23:52
Operator : HP/JU
Sample : K3618-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

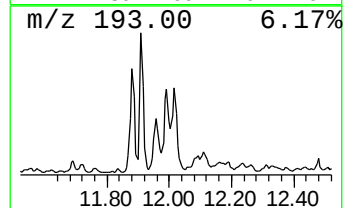
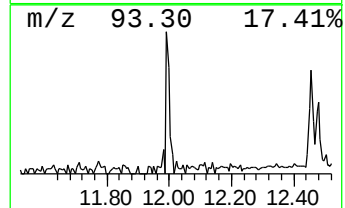
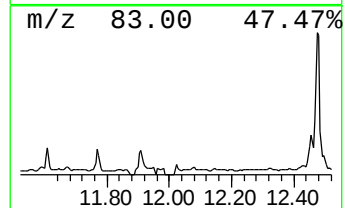
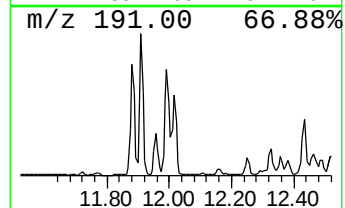
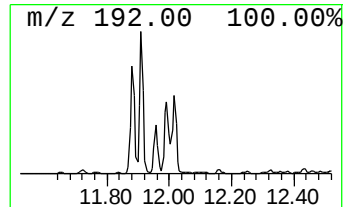
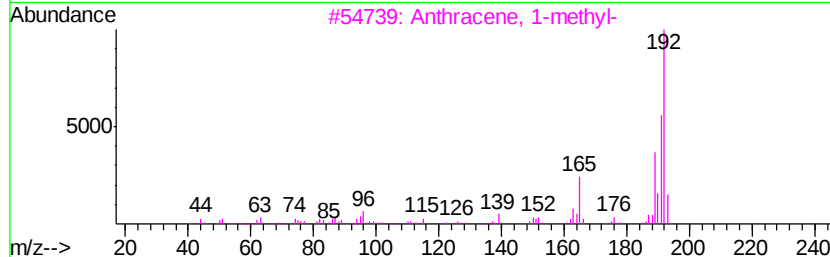
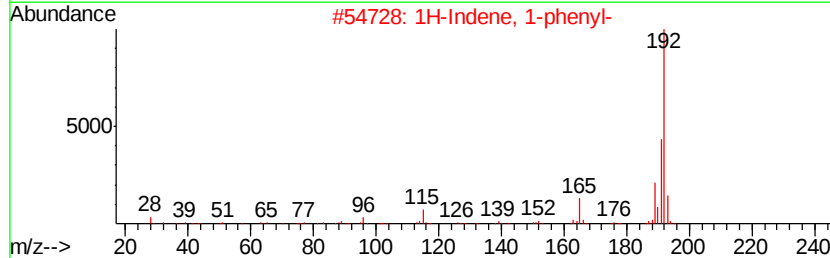
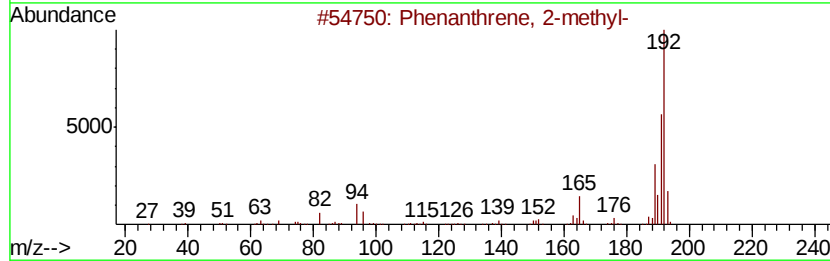
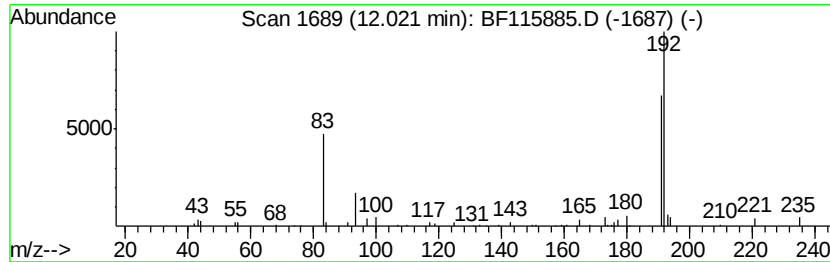
Instrument :
BNA_F
ClientSampleId :
HD-02-073019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 1H-Indene, 1-phenyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.02	3.49 ng	180734	Phenanthrene-d10	11.38	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	90
2	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	87
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	87
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	87
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	83



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115885.D
Acq On : 31 Jul 2019 23:52
Operator : HP/JU
Sample : K3618-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
HD-02-073019

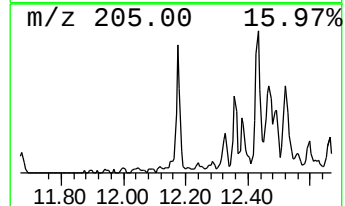
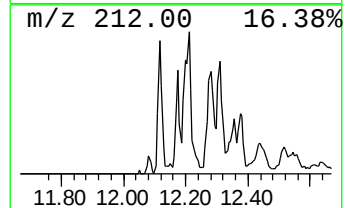
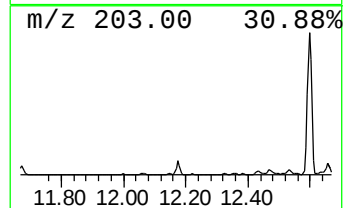
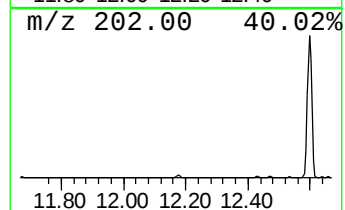
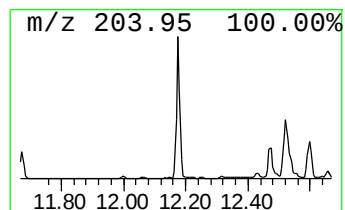
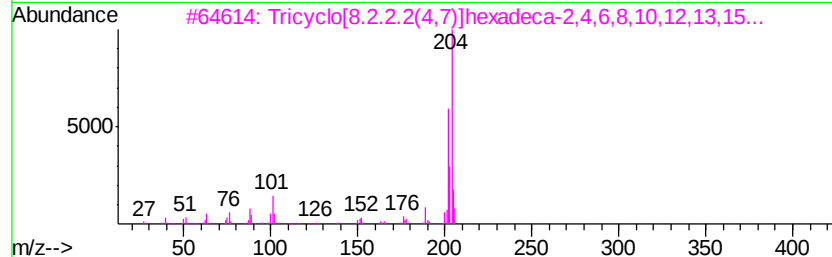
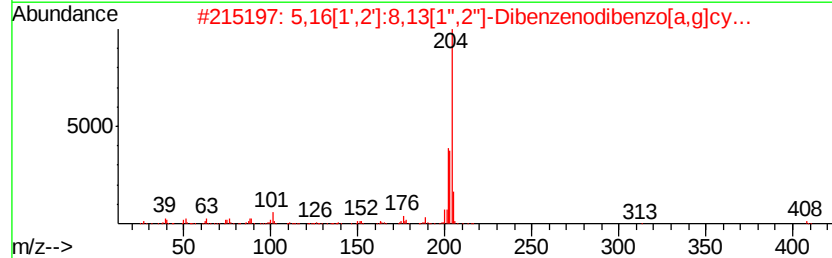
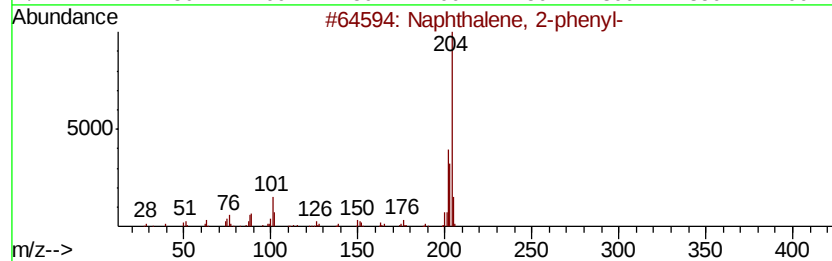
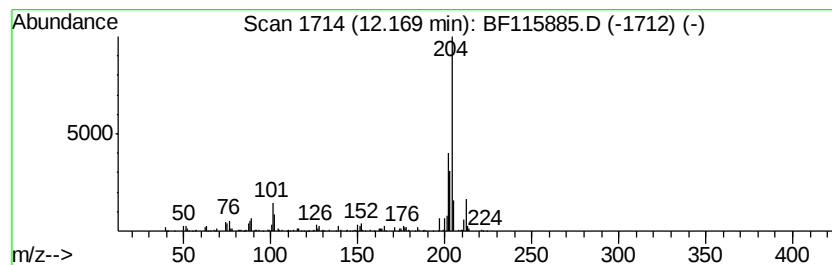
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Naphthalene, 2-phenyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.17	4.52 ng	233849	Phenanthrene-d10	11.38

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
2		5,16[1',2'] : 8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	83
3		Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	64
4		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	60
5		9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	58



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115885.D
Acq On : 31 Jul 2019 23:52
Operator : HP/JU
Sample : K3618-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
HD-02-073019

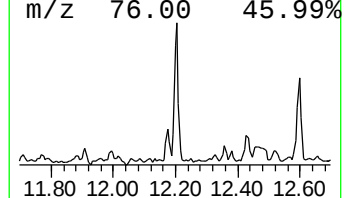
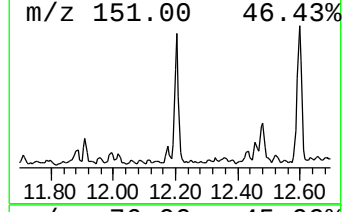
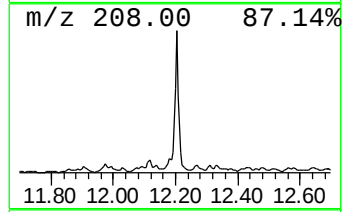
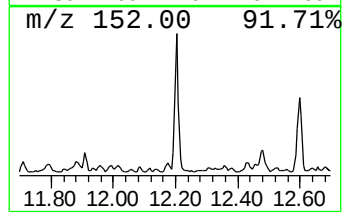
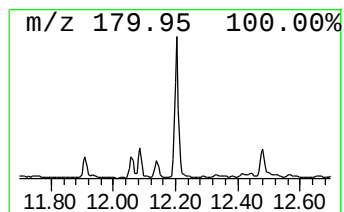
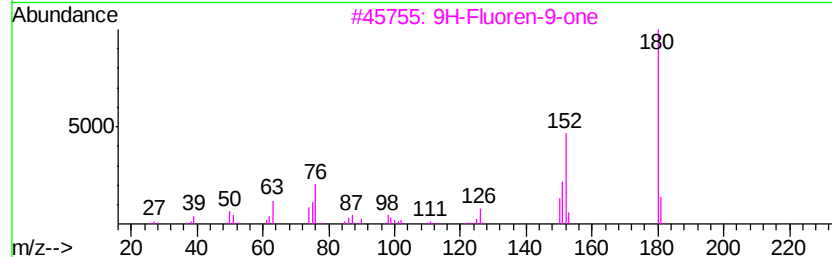
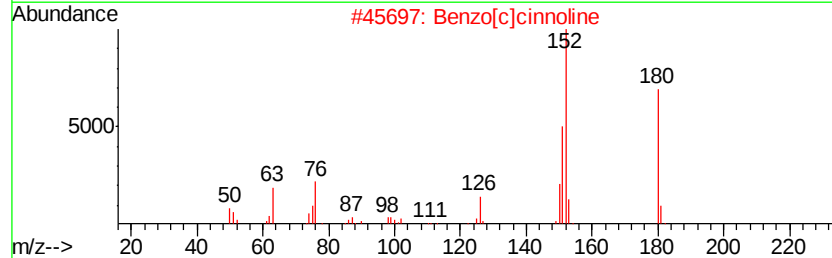
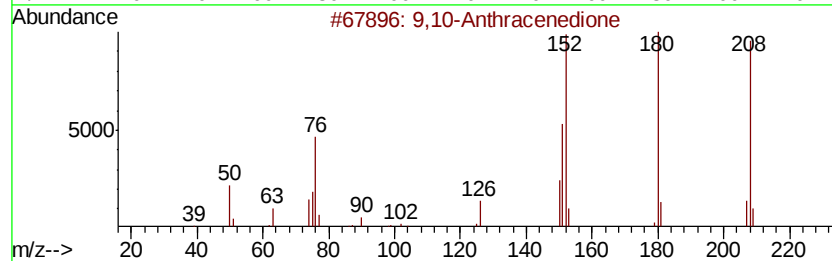
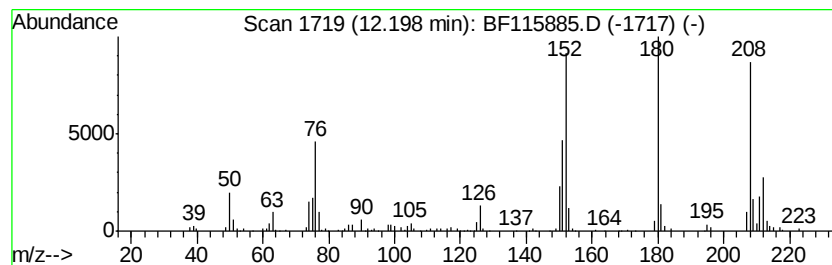
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 9,10-Anthracenedione Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	4.83 ng	249917	Phenanthrene-d10	11.38

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2			Benzo[c]cinnoline	180	C12H8N2	000230-17-1	60
3			9H-Fluoren-9-one	180	C13H8O	000486-25-9	58
4			1H-Phenalen-1-one	180	C13H8O	000548-39-0	55
5			1,4-Anthracenedione	208	C14H8O2	000635-12-1	53



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115885.D
Acq On : 31 Jul 2019 23:52
Operator : HP/JU
Sample : K3618-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

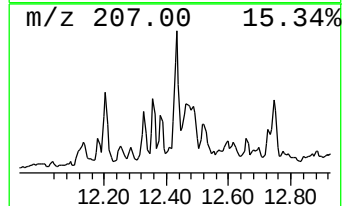
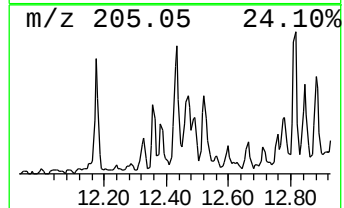
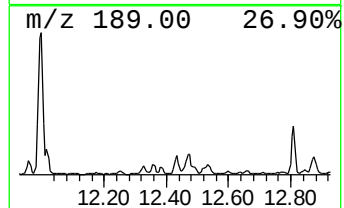
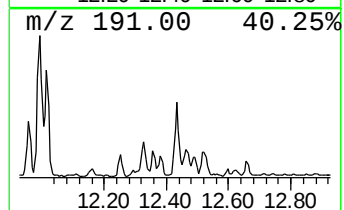
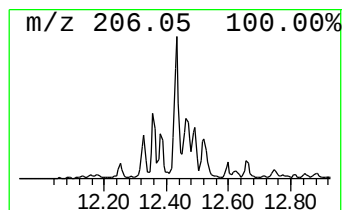
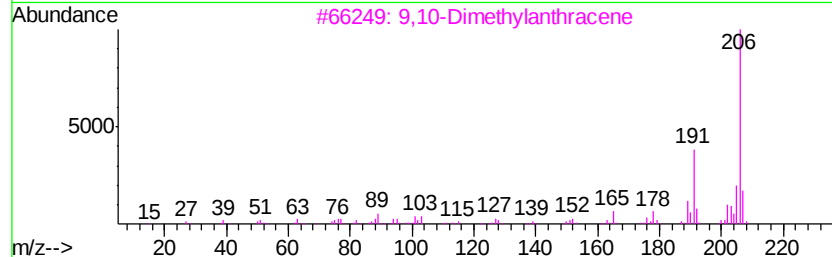
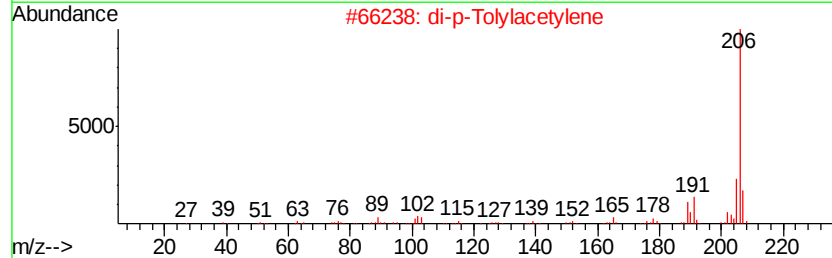
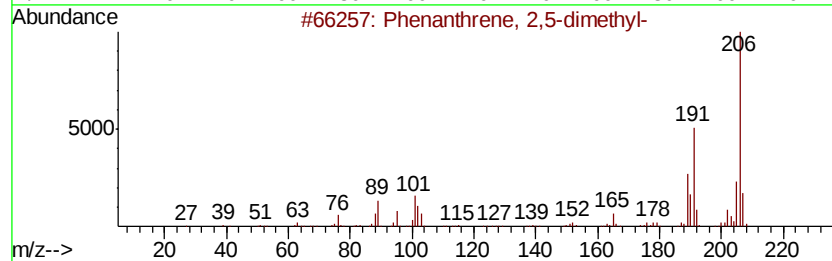
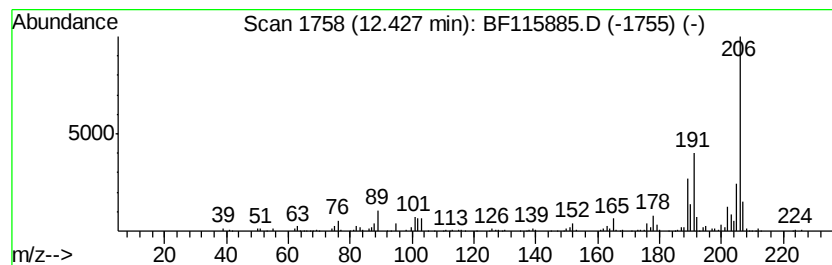
Instrument :
BNA_F
ClientSampleId :
HD-02-073019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Phenanthrene, 2,5-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD		R.T.
12.43	5.95 ng	307751	Phenanthrene-d10		11.38
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	87



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115885.D
Acq On : 31 Jul 2019 23:52
Operator : HP/JU
Sample : K3618-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

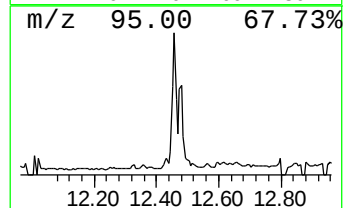
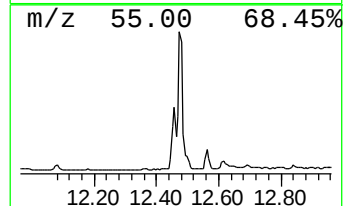
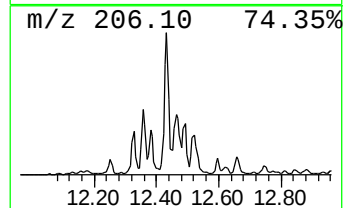
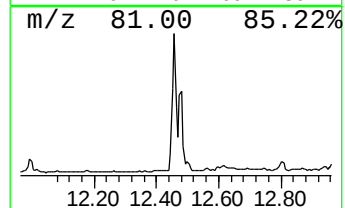
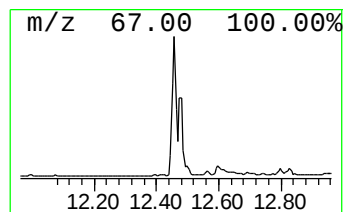
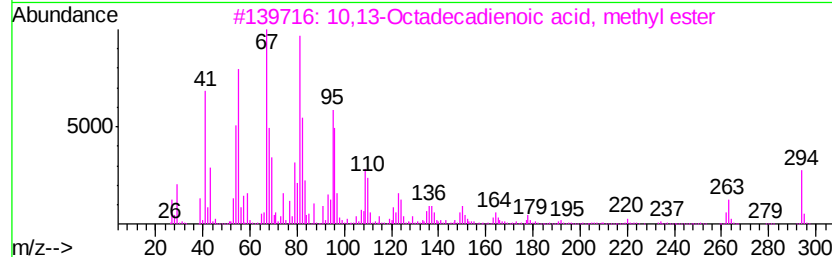
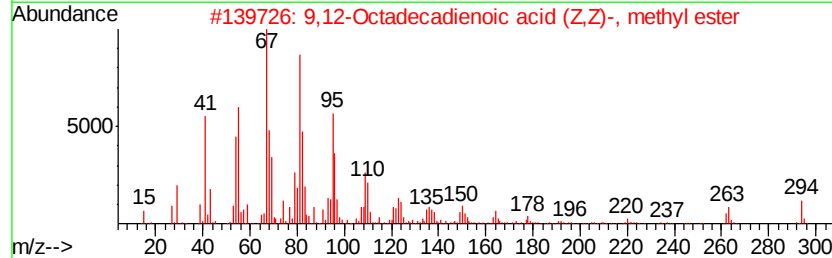
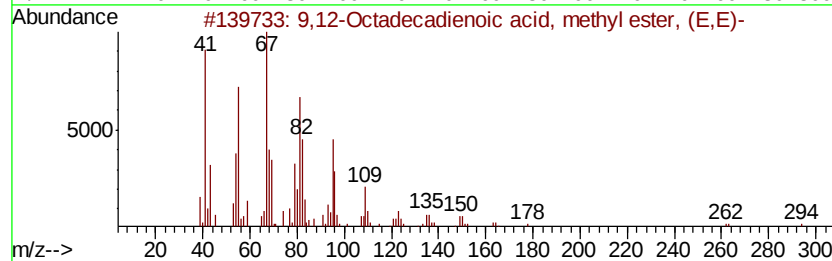
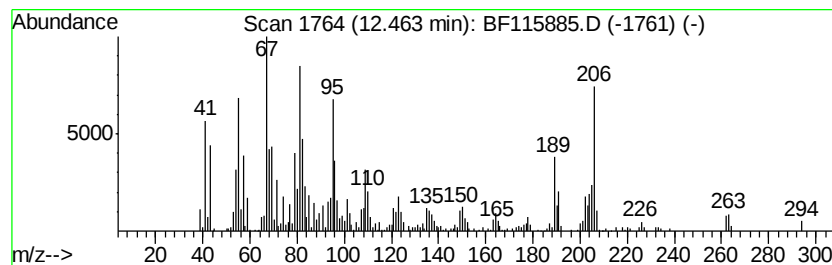
Instrument :
BNA_F
ClientSampleId :
HD-02-073019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 9,12-Octadecadienoic acid, ... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.		
12.46	12.23 ng	632539	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	9,12-Octadecadienoic acid (Z,Z)-...	294	C19H34O2	000112-63-0	99	
3	10,13-Octadecadienoic acid, meth...	294	C19H34O2	056554-62-2	98	
4	9,12-Octadecadienoic acid (Z,Z)-	280	C18H32O2	000060-33-3	95	
5	9,12-Octadecadienoic acid, methy...	294	C19H34O2	002462-85-3	94	



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115885.D
Acq On : 31 Jul 2019 23:52
Operator : HP/JU
Sample : K3618-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
HD-02-073019

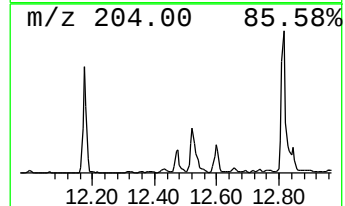
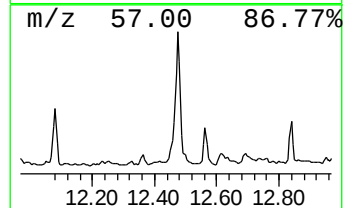
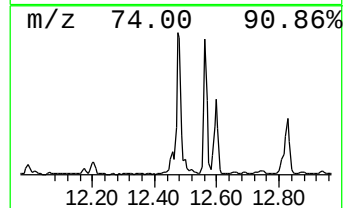
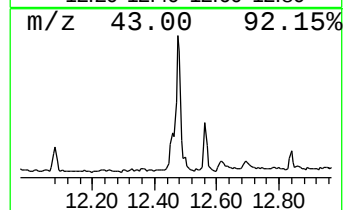
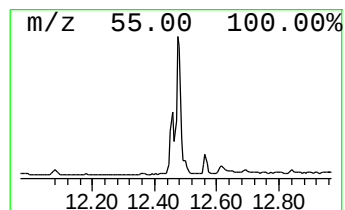
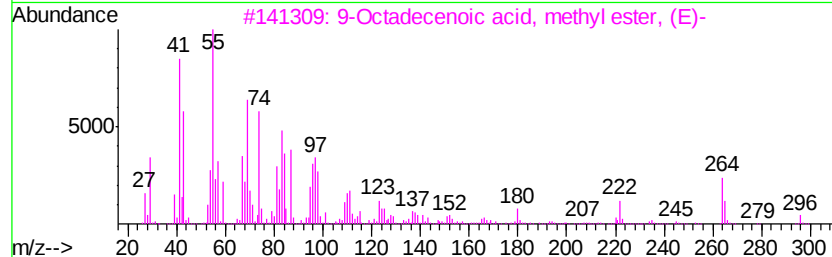
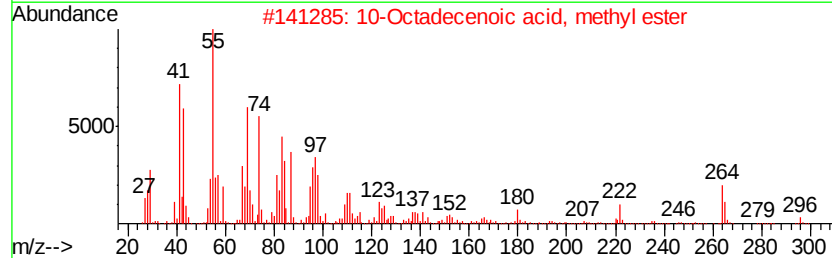
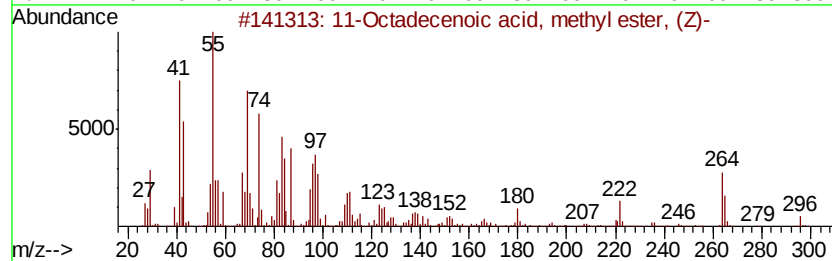
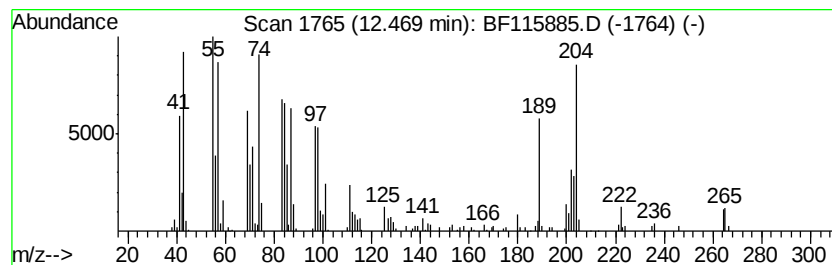
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 11-Octadecenoic acid, methy... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.47	26.20 ng	1355160	Phenanthrene-d10	11.38

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	11-Octadecenoic acid, methyl est...	296	C19H36O2	001937-63-9	96
2		10-Octadecenoic acid, methyl ester	296	C19H36O2	013481-95-3	94
3		9-Octadecenoic acid, methyl este...	296	C19H36O2	001937-62-8	93
4		9-Octadecenoic acid (Z)-, methyl...	296	C19H36O2	000112-62-9	93
5		16-Octadecenoic acid, methyl ester	296	C19H36O2	056554-49-5	90



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115885.D
Acq On : 31 Jul 2019 23:52
Operator : HP/JU
Sample : K3618-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
HD-02-073019

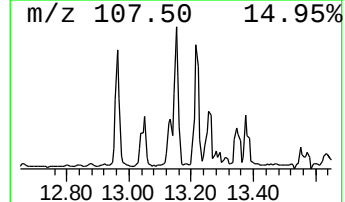
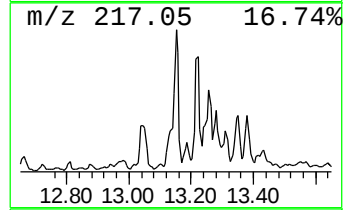
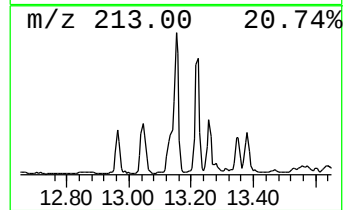
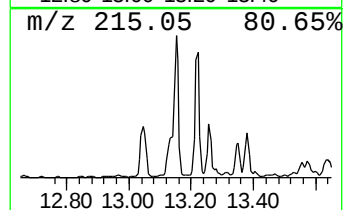
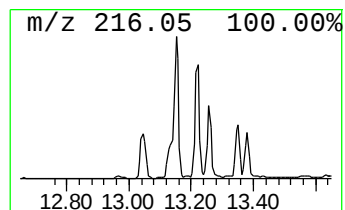
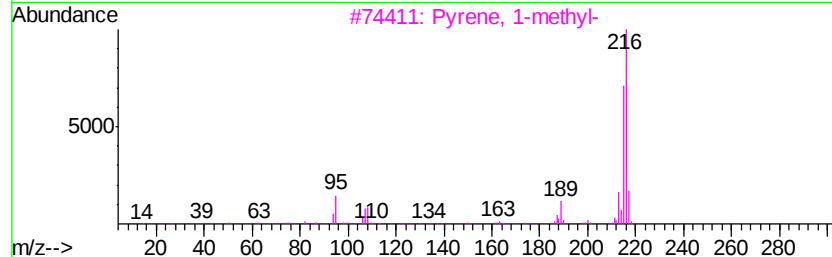
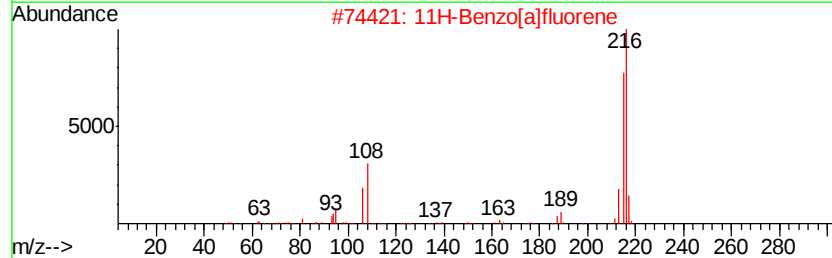
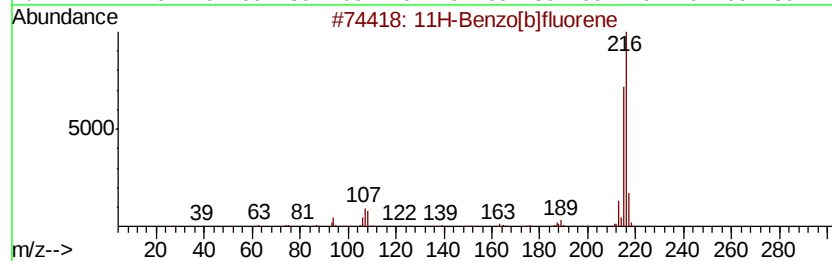
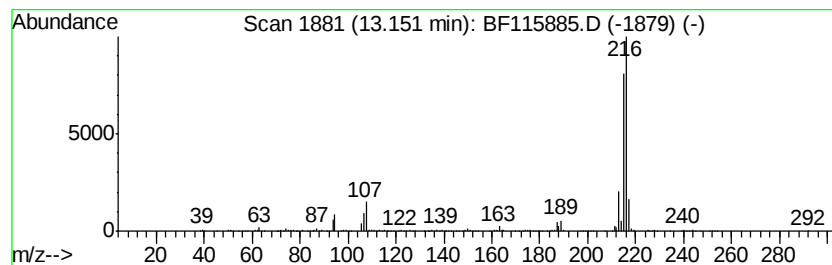
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 11H-Benzo[b]fluorene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	3.74 ng	602208	Chrysene-d12	14.03

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
2			11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
3			Pvrene, 1-methyl-	216	C17H12	002381-21-7	90
4			Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
5			7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115885.D
Acq On : 31 Jul 2019 23:52
Operator : HP/JU
Sample : K3618-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

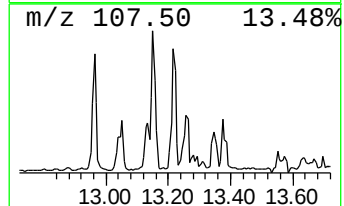
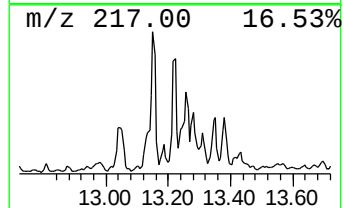
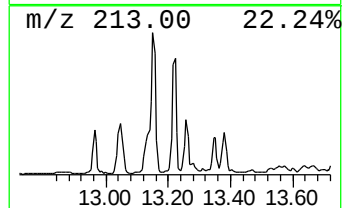
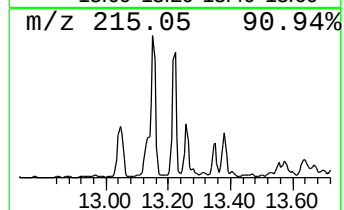
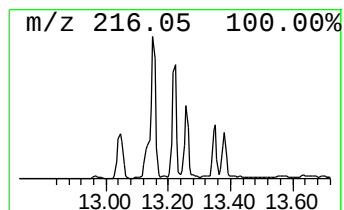
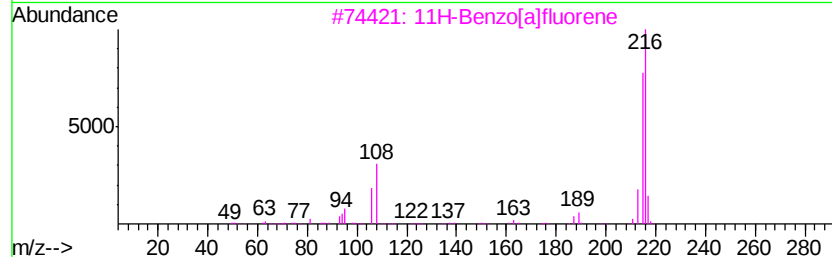
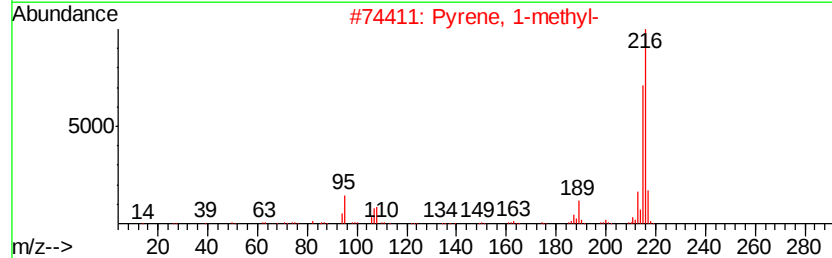
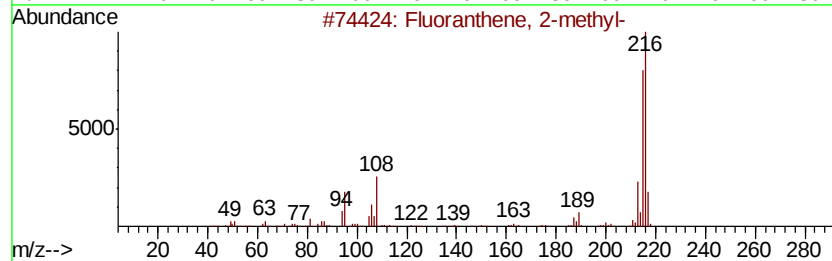
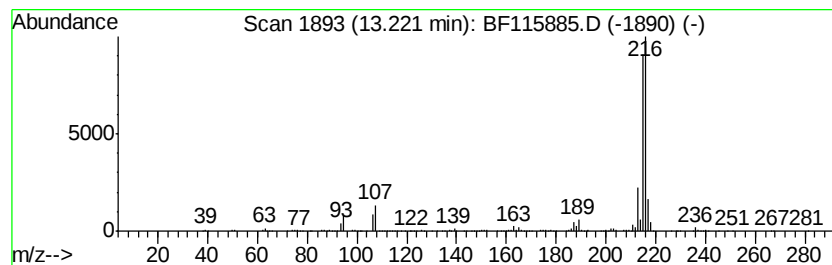
Instrument :
BNA_F
ClientSampleId :
HD-02-073019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Fluoranthene, 2-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.22	3.30 ng	532031	Chrysene-d12	14.03	
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	93
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115885.D
Acq On : 31 Jul 2019 23:52
Operator : HP/JU
Sample : K3618-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
HD-02-073019

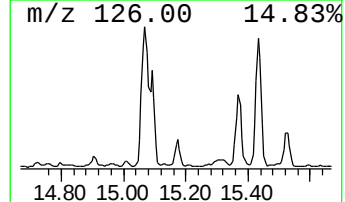
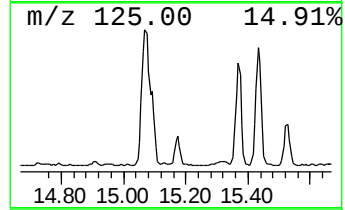
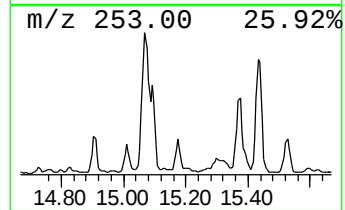
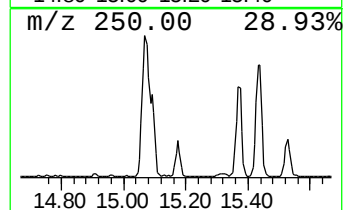
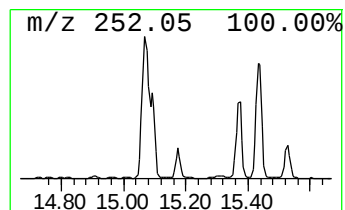
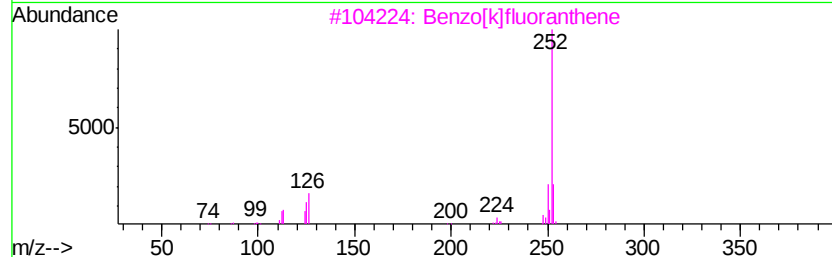
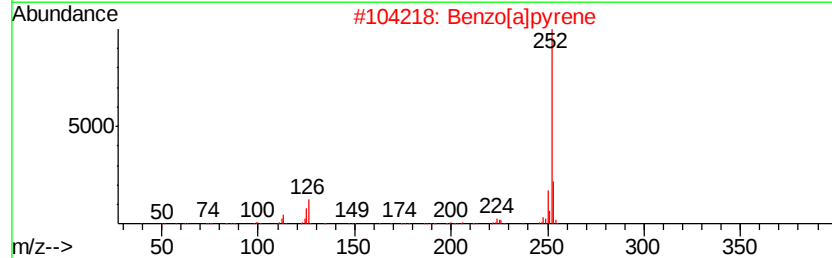
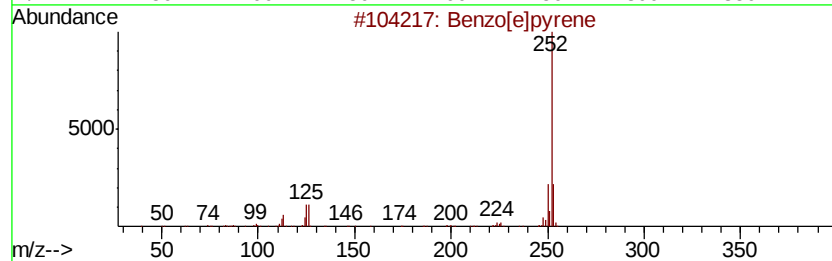
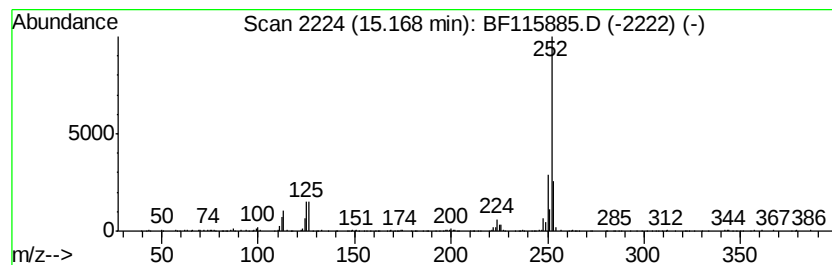
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Benzo[e]pyrene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.17	5.87 ng	246127	Perylene-d12	15.50

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzo[e]pyrene	252	C20H12	000192-97-2	98
2			Benzo[a]pyrene	252	C20H12	000050-32-8	96
3			Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
4			Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95
5			Perylene	252	C20H12	000198-55-0	81



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115885.D
Acq On : 31 Jul 2019 23:52
Operator : HP/JU
Sample : K3618-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
HD-02-073019

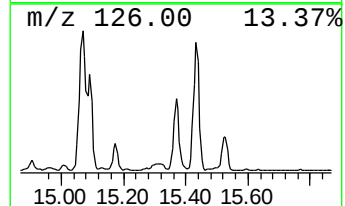
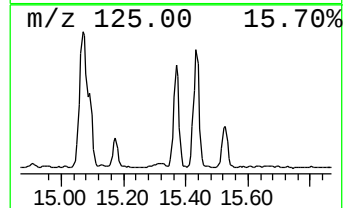
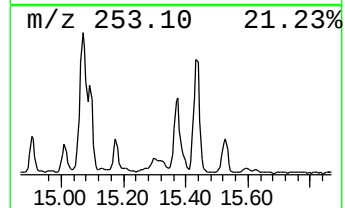
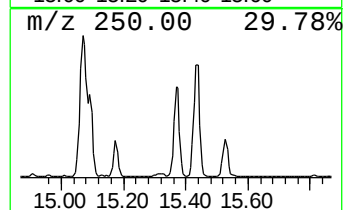
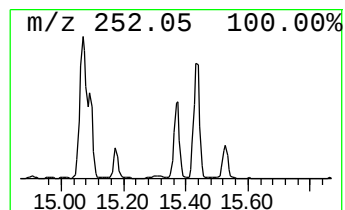
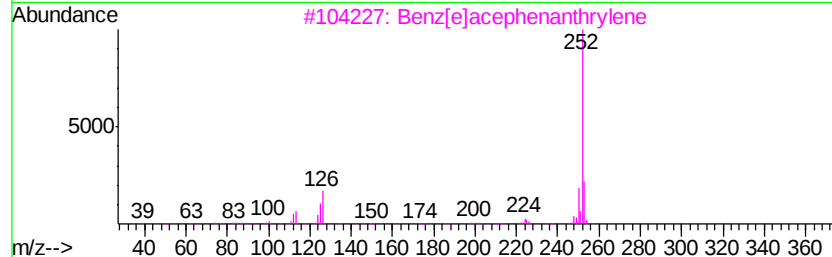
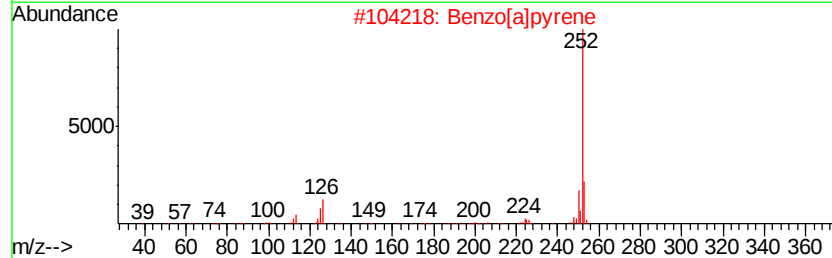
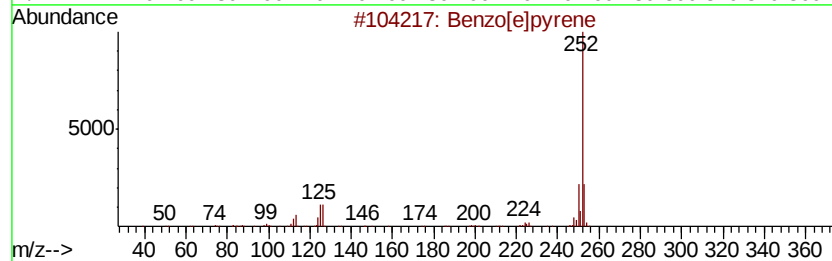
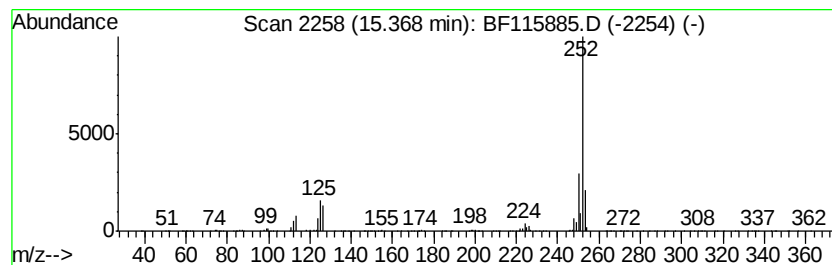
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Benzo[j]fluoranthene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.37	23.82 ng	998477	Perylene-d12	15.50

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2		Benzo[a]pyrene	252	C20H12	000050-32-8	96
3		Benz[e]acephenanthrylene	252	C20H12	000205-99-2	96
4		Perylene	252	C20H12	000198-55-0	95
5		Benzo[j]fluoranthene	252	C20H12	000205-82-3	95



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF073119\
 Data File : BF115885.D
 Acq On : 31 Jul 2019 23:52
 Operator : HP/JU
 Sample : K3618-09
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-073019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Butane, 2-methoxy...	2.13	23.8	ng	1027450	1	6.85	862057	20.0
unknown6.62	6.62	64.3	ng	2772350	1	6.85	862057	20.0
Tridecane	10.80	3.7	ng	190324	4	11.38	1034500	20.0
Tetracosane	11.25	3.2	ng	166431	4	11.38	1034500	20.0
Dibenzothiophene	11.27	3.6	ng	184676	4	11.38	1034500	20.0
Hexadecanoic acid...	11.77	7.3	ng	376676	4	11.38	1034500	20.0
Phenanthrene, 2-m...	11.88	6.0	ng	312627	4	11.38	1034500	20.0
Phenanthrene, 1-m...	11.91	11.3	ng	582236	4	11.38	1034500	20.0
4H-Cyclopenta[def...	11.99	14.3	ng	741560	4	11.38	1034500	20.0
1H-Indene, 1-phenyl-	12.02	3.5	ng	180734	4	11.38	1034500	20.0
Naphthalene, 2-ph...	12.17	4.5	ng	233849	4	11.38	1034500	20.0
9,10-Anthracenedione	12.20	4.8	ng	249917	4	11.38	1034500	20.0
Phenanthrene, 2,5...	12.43	6.0	ng	307751	4	11.38	1034500	20.0
9,12-Octadecadien...	12.46	12.2	ng	632539	4	11.38	1034500	20.0
11-Octadecenoic a...	12.47	26.2	ng	1355160	4	11.38	1034500	20.0
11H-Benzo[b]fluorene	13.15	3.7	ng	602208	5	14.03	3223270	20.0
Fluoranthene, 2-m...	13.22	3.3	ng	532031	5	14.03	3223270	20.0
Benzo[e]pyrene	15.17	5.9	ng	246127	6	15.50	838281	20.0
Benzo[j]fluoranthene	15.37	23.8	ng	998477	6	15.50	838281	20.0