

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052517\
 Data File : BF095428.D
 Acq On : 25 May 2017 17:43
 Operator : SJ/MA
 Sample : I3348-01
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-225/289/330/139/15532/VNJ-23

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:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.101	534	538	551	rBV	73545	180082	7.32%	0.468%
2	5.707	637	641	680	rBV	844793	2089727	84.92%	5.433%
3	7.289	906	910	926	rBV	943171	1954164	79.41%	5.081%
4	7.407	926	930	951	rVB	1430266	2460827	100.00%	6.398%
5	7.742	983	987	996	rBV	428911	529199	21.50%	1.376%
6	7.978	1023	1027	1041	rBV	1261320	1631149	66.28%	4.241%
7	8.648	1137	1141	1168	rBV	677770	1325139	53.85%	3.445%
8	9.766	1326	1331	1336	rBV	486083	716773	29.13%	1.864%
9	10.942	1527	1531	1536	rBV2	24978	40268	1.64%	0.105%
10	11.089	1552	1556	1560	rBV2	20142	26548	1.08%	0.069%
11	11.536	1627	1632	1647	rBV	1654882	2291471	93.12%	5.957%
12	11.754	1665	1669	1676	rVB5	29526	50000	2.03%	0.130%
13	12.071	1719	1723	1727	rBV2	31125	45548	1.85%	0.118%
14	12.118	1728	1731	1738	rVB4	20319	33021	1.34%	0.086%
15	12.236	1746	1751	1756	rBV	216202	340709	13.85%	0.886%
16	12.271	1756	1757	1761	rVB2	45886	39179	1.59%	0.102%
17	12.377	1770	1775	1784	rBV2	53524	96627	3.93%	0.251%
18	12.595	1807	1812	1818	rBV2	628975	906381	36.83%	2.356%
19	12.648	1818	1821	1830	rVB	214988	286727	11.65%	0.745%
20	12.865	1854	1858	1861	rVB2	30868	35943	1.46%	0.093%
21	12.948	1868	1872	1880	rBV3	60755	131081	5.33%	0.341%
22	13.030	1883	1886	1891	rVB4	33133	46165	1.88%	0.120%
23	13.136	1901	1904	1910	rVB4	38864	60728	2.47%	0.158%
24	13.195	1911	1914	1921	rVB4	28470	40877	1.66%	0.106%
25	13.430	1949	1954	1958	rBV	82908	112945	4.59%	0.294%
26	13.495	1961	1965	1972	rVB2	221506	303031	12.31%	0.788%
27	13.583	1977	1980	1982	rBV4	27172	31884	1.30%	0.083%
28	13.630	1986	1988	1993	rVB2	43270	55512	2.26%	0.144%
29	13.707	1999	2001	2004	rVB3	23791	25188	1.02%	0.065%
30	13.771	2008	2012	2014	rBV	61408	86689	3.52%	0.225%
31	13.895	2029	2033	2043	rBV	860120	1370759	55.70%	3.564%
32	14.201	2081	2085	2087	rBV	86946	96346	3.92%	0.250%
33	14.224	2087	2089	2094	rVV4	66704	94139	3.83%	0.245%
34	14.271	2095	2097	2101	rVB4	31207	34572	1.40%	0.090%

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35	14.377	2112	2115	2116	rBV3	26144	30118	1.22%	0.078%
36	14.395	2116	2118	2122	rVV2	53061	66268	2.69%	0.172%
37	14.436	2123	2125	2129	rVB	32197	41201	1.67%	0.107%
38	14.518	2133	2139	2144	rVB4	47844	83593	3.40%	0.217%
39	14.577	2145	2149	2152	rBV5	27210	27158	1.10%	0.071%
40	14.618	2152	2156	2159	rBV3	56094	77290	3.14%	0.201%
41	14.654	2159	2162	2165	rBV2	27243	34693	1.41%	0.090%
42	14.789	2181	2185	2189	rBV4	47821	84218	3.42%	0.219%
43	14.836	2189	2193	2197	rVB	67088	85002	3.45%	0.221%
44	14.930	2206	2209	2213	rBV2	56269	64330	2.61%	0.167%
45	15.001	2214	2221	2224	rBV	574708	784975	31.90%	2.041%
46	15.036	2224	2227	2237	rVB	1129732	1395366	56.70%	3.628%
47	15.124	2237	2242	2251	rVB	326482	477049	19.39%	1.240%
48	15.212	2253	2257	2263	rBV2	64724	127871	5.20%	0.332%
49	15.424	2289	2293	2300	rBV2	38932	108425	4.41%	0.282%
50	15.524	2306	2310	2314	rBV5	45495	65091	2.65%	0.169%
51	15.595	2320	2322	2327	rBV3	42490	54331	2.21%	0.141%
52	15.783	2350	2354	2358	rBV	202838	224594	9.13%	0.584%
53	15.824	2358	2361	2365	rVB	208677	243256	9.89%	0.632%
54	15.895	2370	2373	2376	rVV	122568	144163	5.86%	0.375%
55	15.930	2376	2379	2382	rVV2	349192	458233	18.62%	1.191%
56	15.971	2382	2386	2391	rVB2	275661	495103	20.12%	1.287%
57	16.124	2408	2412	2420	rBV5	137610	208583	8.48%	0.542%
58	16.218	2425	2428	2433	rVB	173538	247307	10.05%	0.643%
59	16.283	2436	2439	2443	rVB2	169071	204375	8.31%	0.531%
60	16.430	2462	2464	2469	rVB3	90502	101736	4.13%	0.264%
61	16.553	2483	2485	2487	rBV2	37350	46422	1.89%	0.121%
62	16.577	2487	2489	2493	rVV2	137584	163281	6.64%	0.425%
63	16.618	2493	2496	2501	rVB2	66081	100862	4.10%	0.262%
64	16.700	2506	2510	2513	rBV2	90196	119207	4.84%	0.310%
65	16.730	2513	2515	2518	rVB	70775	61268	2.49%	0.159%
66	16.789	2520	2525	2530	rBV	1534937	1836455	74.63%	4.775%
67	16.865	2535	2538	2545	rBV5	74495	147905	6.01%	0.385%
68	16.983	2556	2558	2562	rBV	43244	38715	1.57%	0.101%
69	17.089	2571	2576	2581	rVB	1690015	2141425	87.02%	5.567%
70	17.230	2598	2600	2604	rVB	68173	79290	3.22%	0.206%
71	17.271	2604	2607	2611	rBV	135669	182040	7.40%	0.473%

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72	17.324	2611	2616	2623	rVB	1236397	1474018	59.90%	3.832%
73	17.406	2624	2630	2637	rBV3	115502	234834	9.54%	0.611%
74	17.489	2641	2644	2646	rBV	86379	91553	3.72%	0.238%
75	17.547	2651	2654	2660	rVB	250153	341139	13.86%	0.887%
76	17.636	2665	2669	2673	rVB2	252659	272233	11.06%	0.708%
77	17.683	2673	2677	2684	rBV4	213921	419004	17.03%	1.089%
78	17.800	2694	2697	2701	rVB	107175	106207	4.32%	0.276%
79	17.842	2701	2704	2709	rBV2	88210	125836	5.11%	0.327%
80	18.383	2793	2796	2799	rVB2	150074	158684	6.45%	0.413%
81	18.418	2799	2802	2805	rBV	112322	133016	5.41%	0.346%
82	18.671	2840	2845	2849	rBV2	904458	1524883	61.97%	3.964%
83	18.712	2849	2852	2857	rVB	741452	886622	36.03%	2.305%
84	18.806	2865	2868	2873	rVB	168229	191186	7.77%	0.497%
85	18.959	2892	2894	2898	rVB3	90790	96691	3.93%	0.251%
86	19.183	2929	2932	2935	rVB	179474	198461	8.06%	0.516%
87	19.359	2960	2962	2966	rVB3	104722	115323	4.69%	0.300%
88	19.906	3052	3055	3056	rBV2	75041	85024	3.46%	0.221%
89	19.947	3058	3062	3065	rBV	637626	905827	36.81%	2.355%
90	20.059	3078	3081	3091	rBV2	146231	342388	13.91%	0.890%
91	20.241	3109	3112	3116	rVB	412071	411679	16.73%	1.070%
92	20.300	3119	3122	3128	rVB	600736	693918	28.20%	1.804%
93	20.359	3128	3132	3135	rBV	342637	402729	16.37%	1.047%
94	21.518	3325	3329	3331	rBV4	66983	105927	4.30%	0.275%
95	21.694	3355	3359	3366	rVB	174433	285061	11.58%	0.741%
96	21.994	3408	3410	3413	rBV3	50170	68408	2.78%	0.178%
97	22.082	3421	3425	3434	rVB	151427	305720	12.42%	0.795%
98	23.953	3737	3743	3744	rBV6	35805	66698	2.71%	0.173%

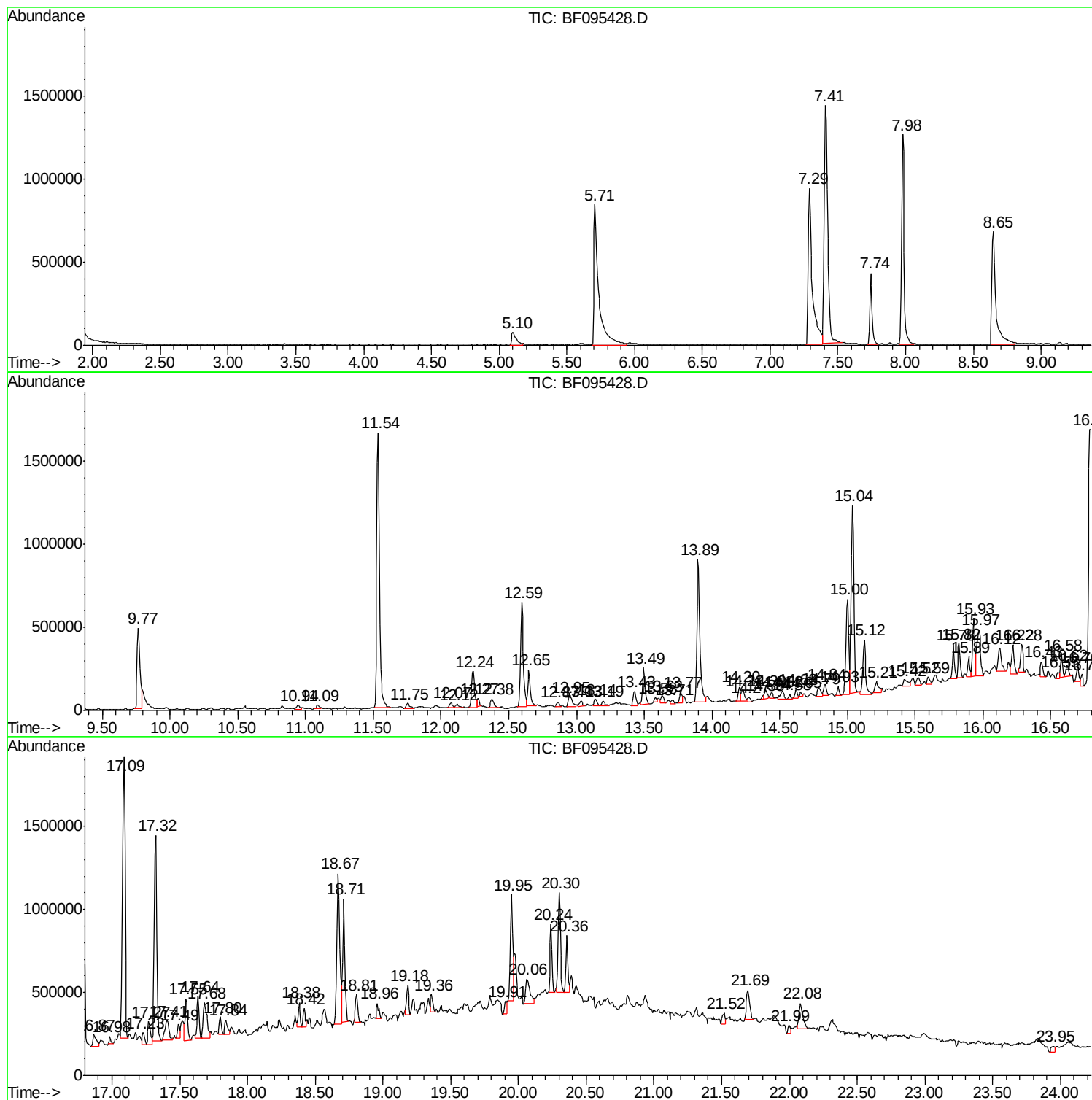
Sum of corrected areas: 38463666

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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.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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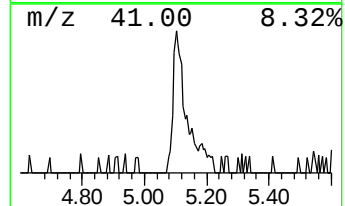
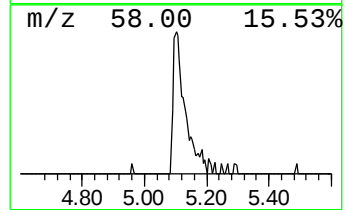
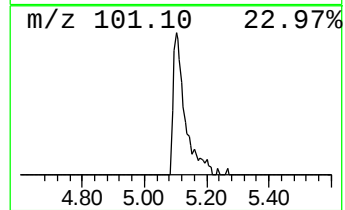
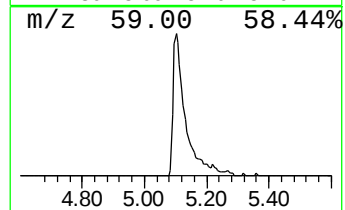
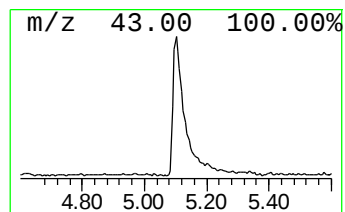
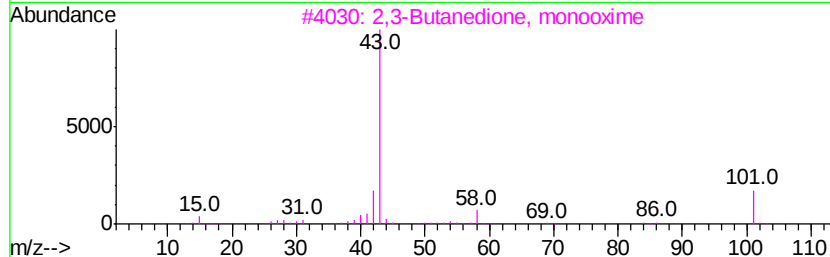
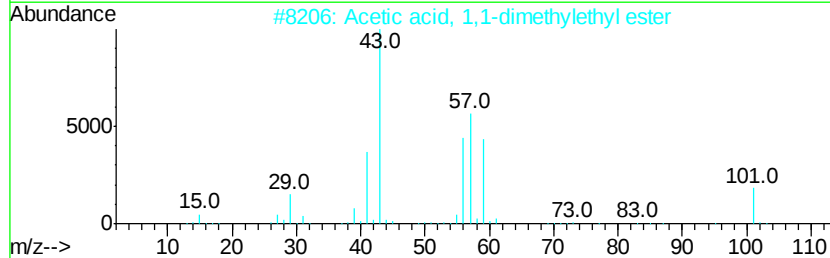
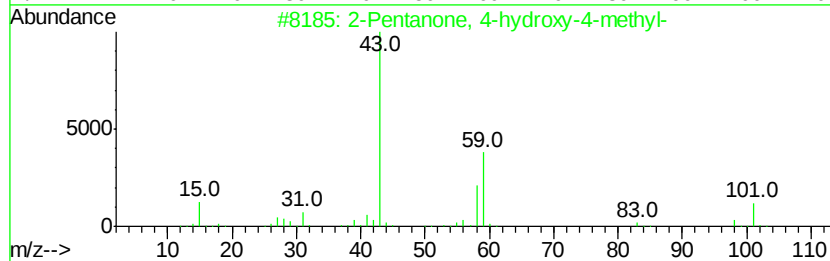
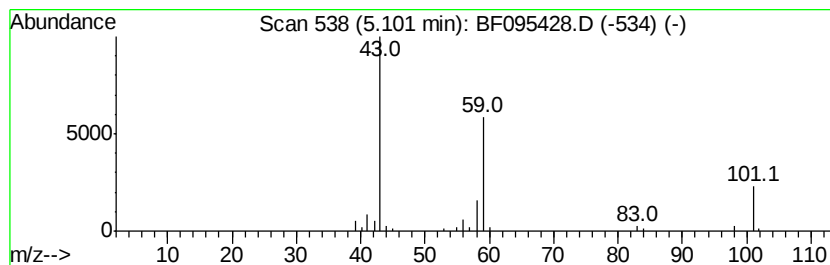
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.10	6.81 ng	180082	1,4-Dichlorobenzene-d4	7.74

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	72
2			Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	39
3			2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	35
4			Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
5			Butyl aldoxime, 3-methyl-, syn-	101	C5H11NO	005780-40-5	17



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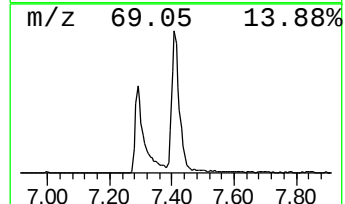
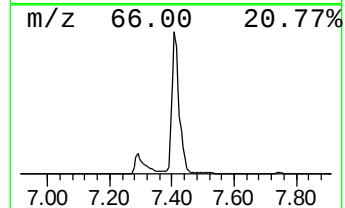
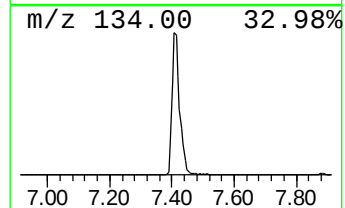
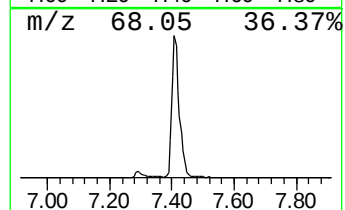
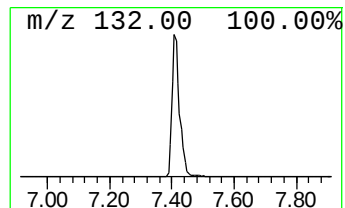
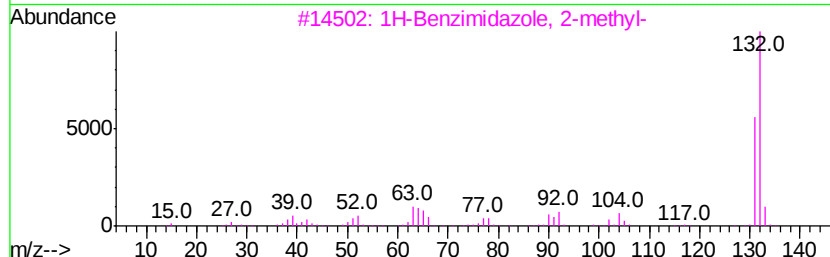
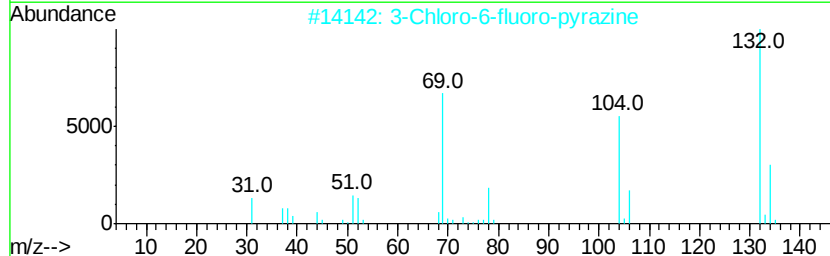
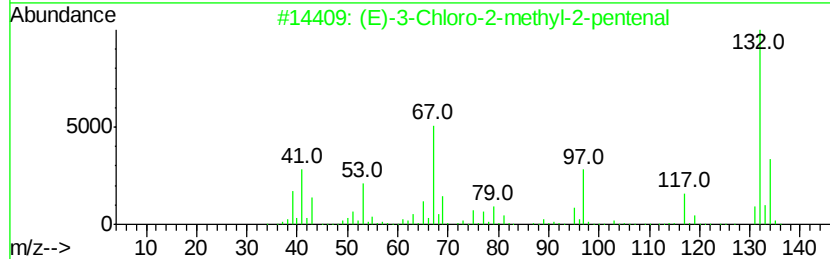
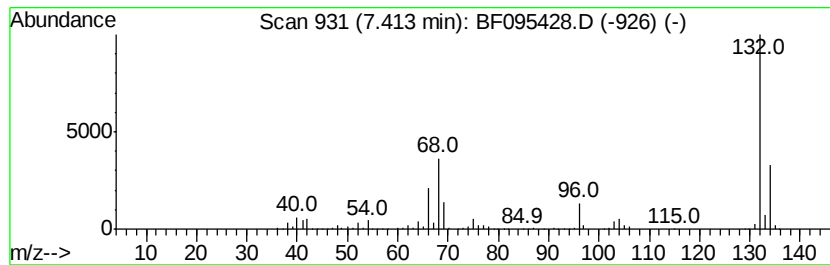
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 unknown7.41 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.41	93.00 ng	2460830	1,4-Dichlorobenzene-d4	7.74

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	35
2		3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
3		1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	9
4		2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9
5		4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	9



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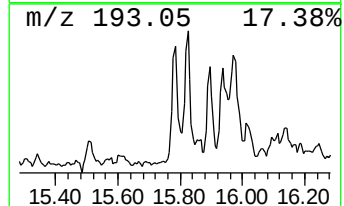
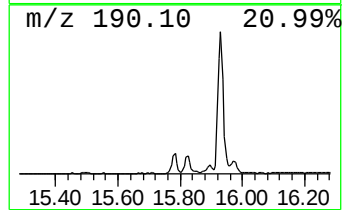
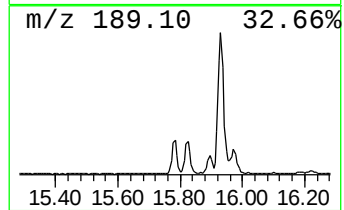
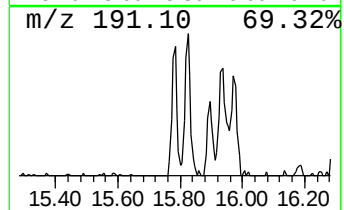
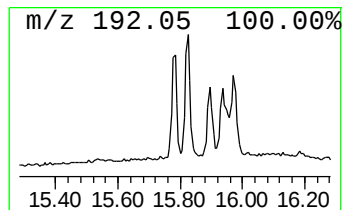
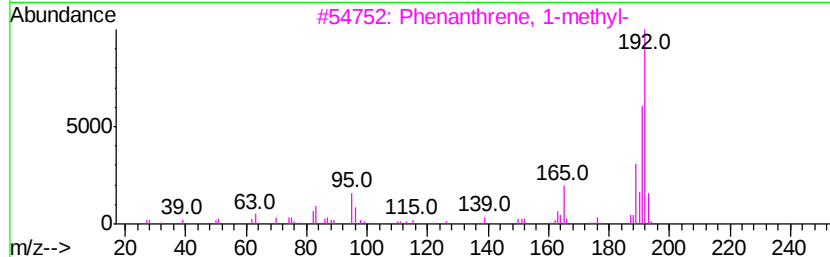
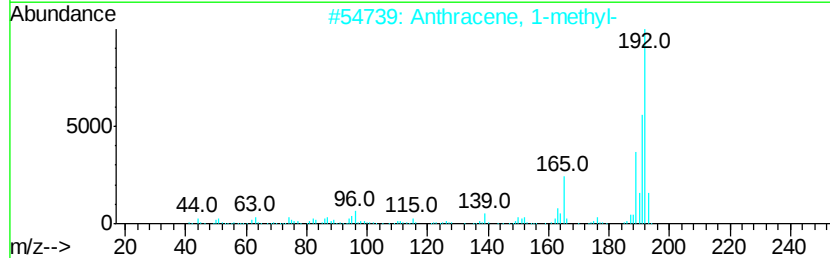
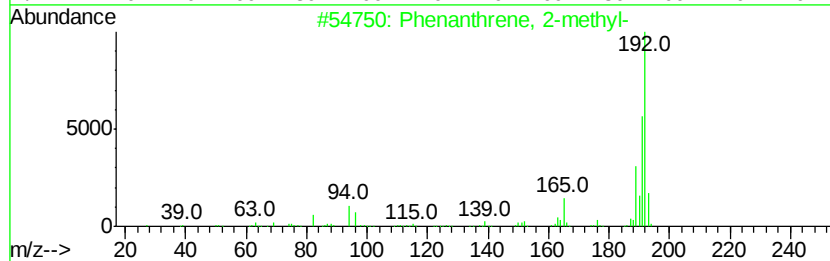
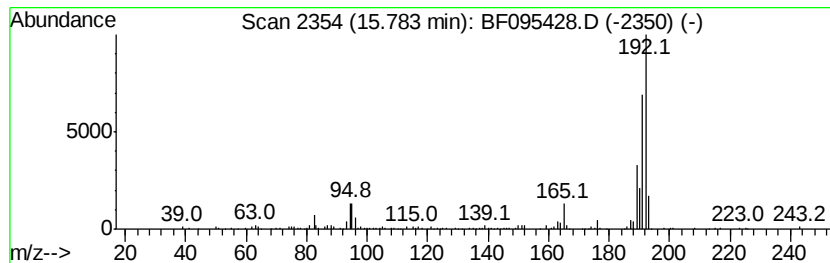
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.78	5.72 ng	224594	Phenanthrene-d10	15.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
2		Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
3		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
4		Anthracene, 2-methyl-	192	C15H12	000613-12-7	89
5		Anthracene, 9-methyl-	192	C15H12	000779-02-2	81



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052517\
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Acq On : 25 May 2017 17:43
Operator : SJ/MA
Sample : I3348-01
Misc :
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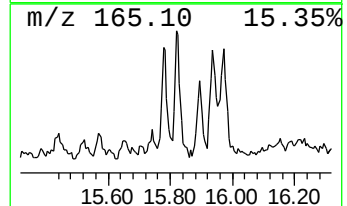
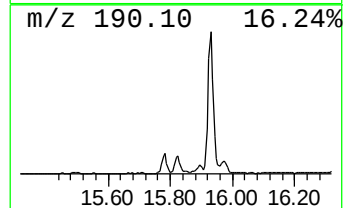
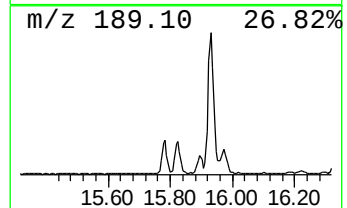
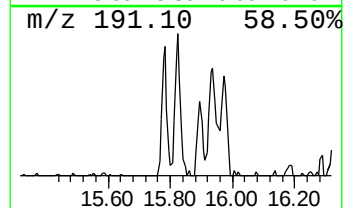
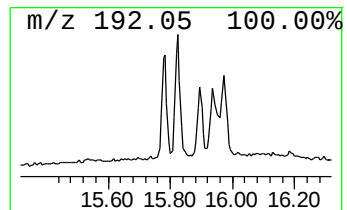
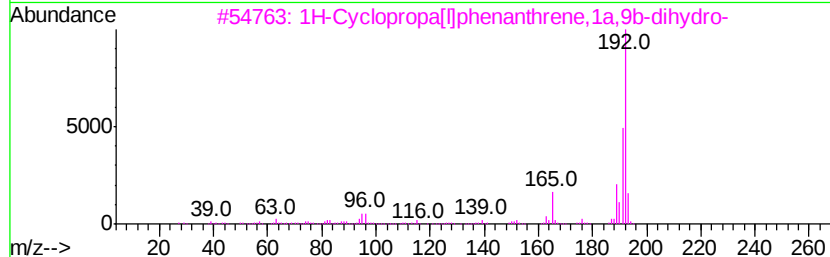
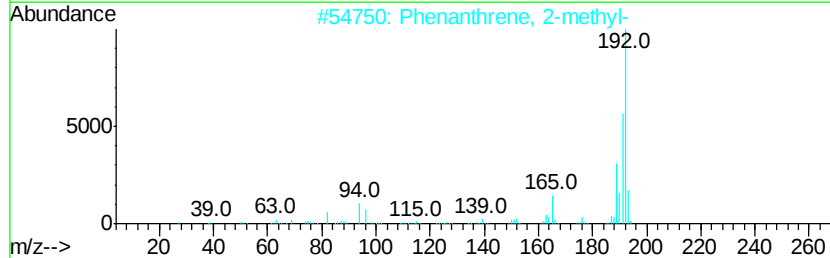
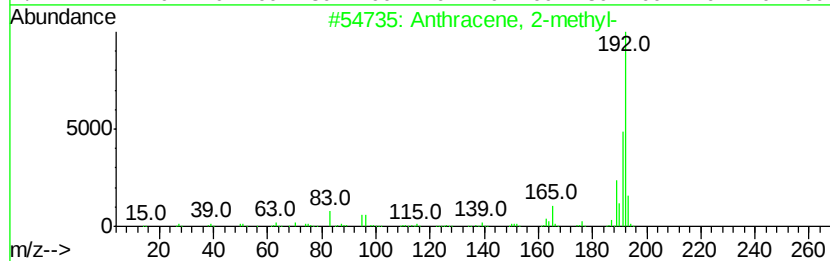
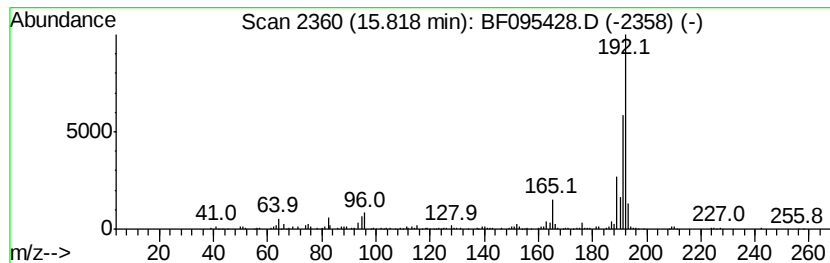
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ClientSampleId :
VNJ-225/289/330/139/15532/VNJ-23

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Anthracene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.	
15.82	6.20 ng	243256	Phenanthrene-d10	15.00	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052517\
Data File : BF095428.D
Acq On : 25 May 2017 17:43
Operator : SJ/MA
Sample : I3348-01
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Instrument :
BNA_F
ClientSampleId :
VNJ-225/289/330/139/15532/VNJ-23

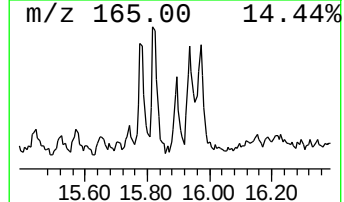
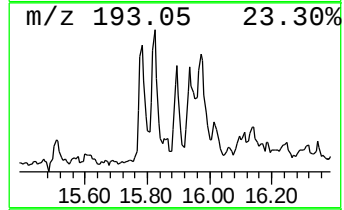
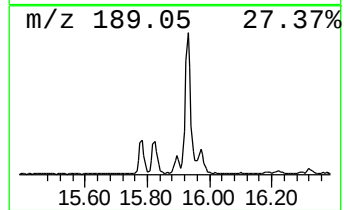
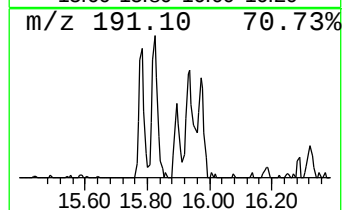
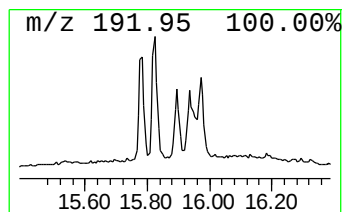
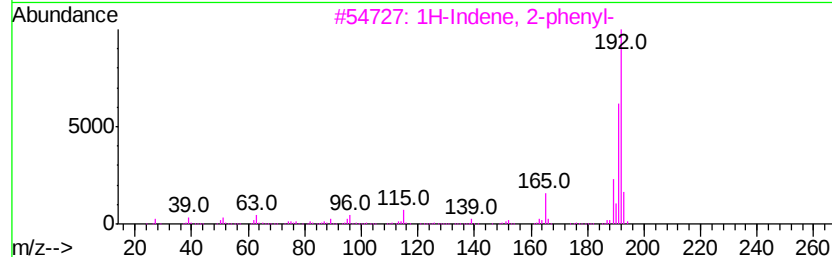
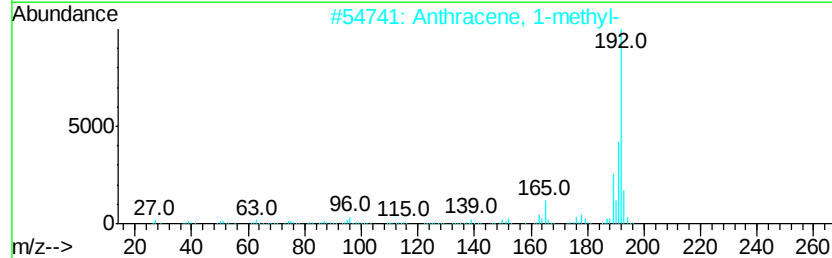
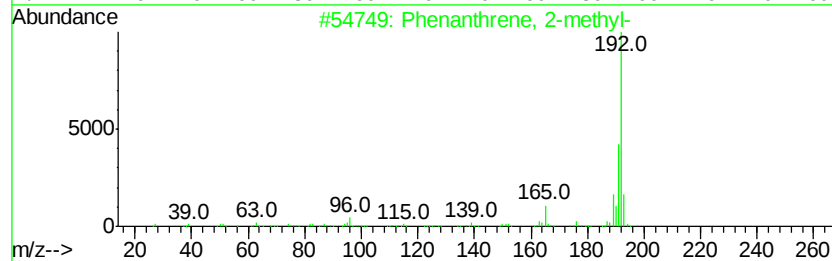
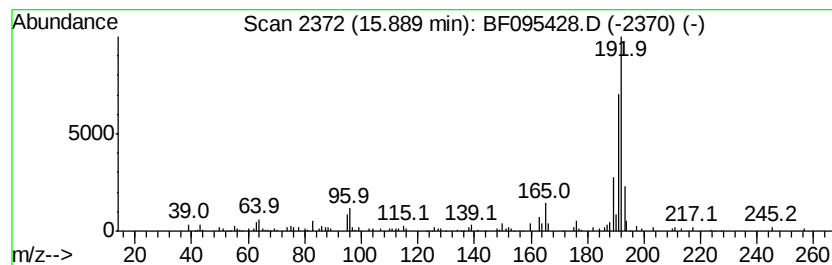
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 1H-Cyclopropa[l]phenanthren... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.89	3.67 ng	144163	Phenanthrene-d10	15.00

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
2			Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
3			1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	93
4			Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
5			1H-Cyclopropa[l]phenanthrene, 1a, ...	192	C15H12	000949-41-7	90



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052517\
Data File : BF095428.D
Acq On : 25 May 2017 17:43
Operator : SJ/MA
Sample : I3348-01
Misc :
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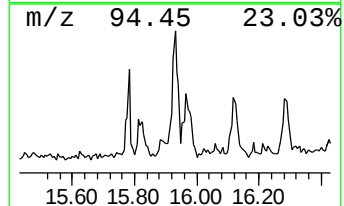
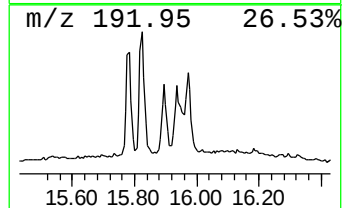
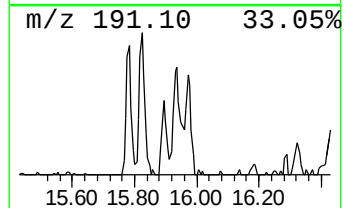
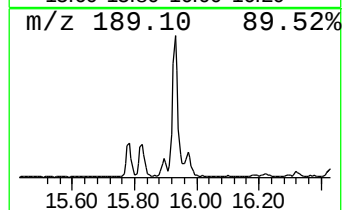
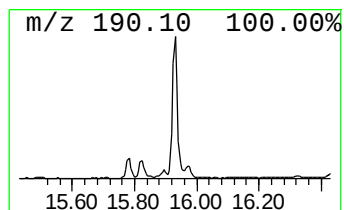
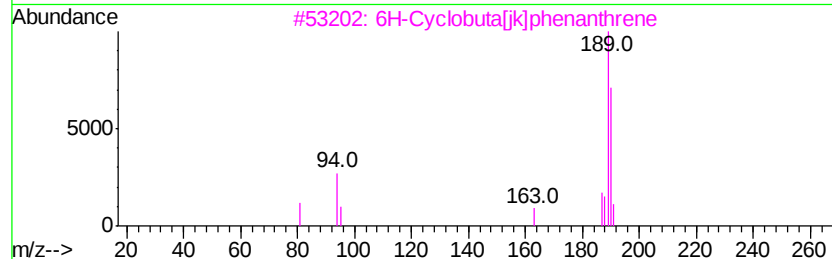
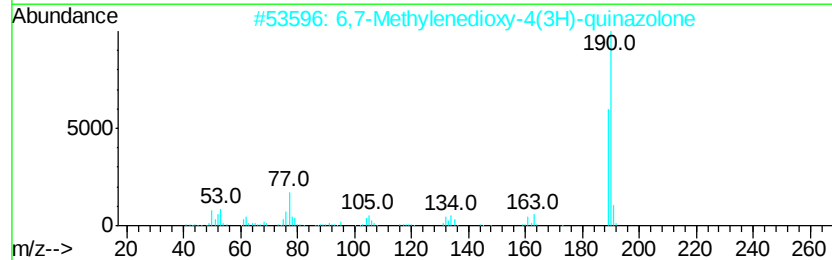
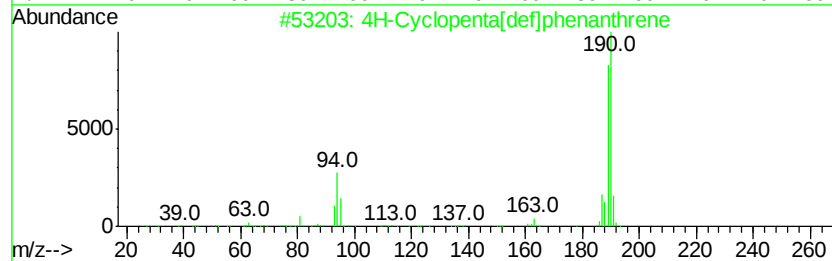
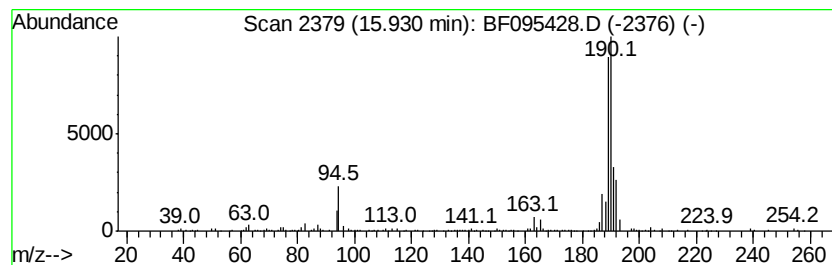
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.	
15.93	11.68 ng	458233	Phenanthrene-d10	15.00	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	6,7-Methylenedioxy-4(3H)-quinazo...	190	C9H6N2O3	028310-11-4	33
3	6H-Cyclobuta[flk]phenanthrene	190	C15H10	083469-43-6	32
4	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	25
5	Hydrazinecarboxaldehyde, 2-[3-(m...	190	C4H6N4O5	038362-25-3	14



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052517\
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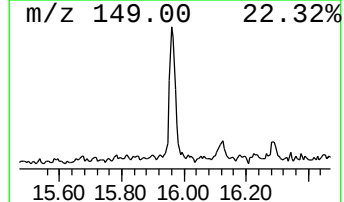
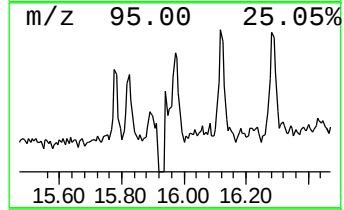
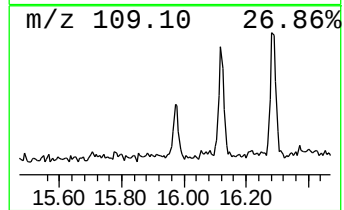
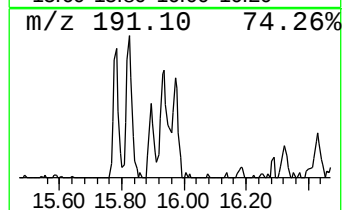
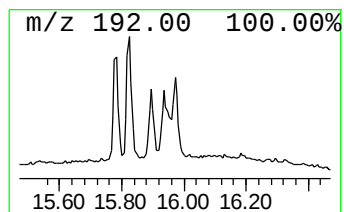
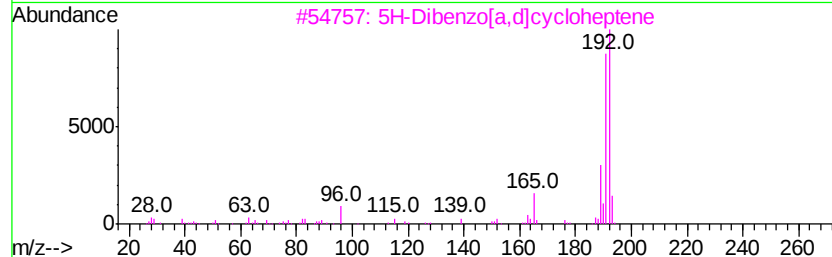
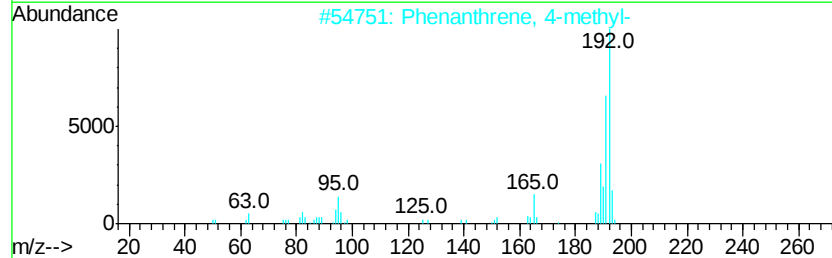
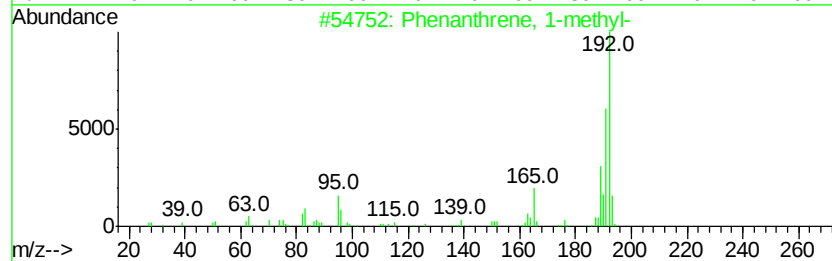
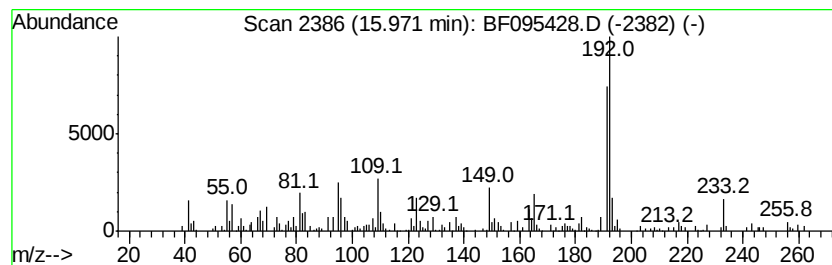
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.	
15.97	12.61 ng	495103	Phenanthrene-d10	15.00	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	76
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	76
3	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	70
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	70
5	Naphtho[1,2-b]norbornadiene	192	C15H12	1000210-14-8	64



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052517\
Data File : BF095428.D
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Sample : I3348-01
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Instrument :
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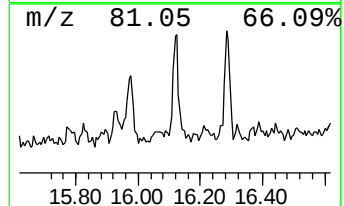
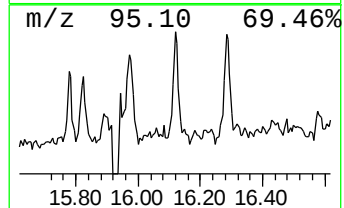
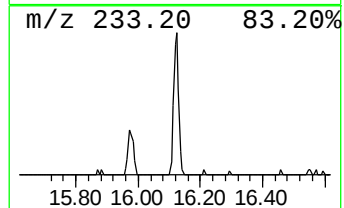
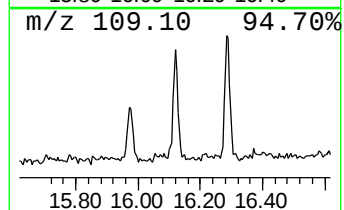
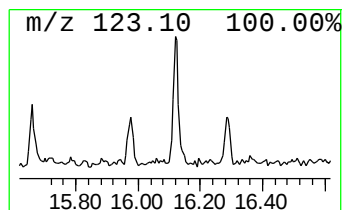
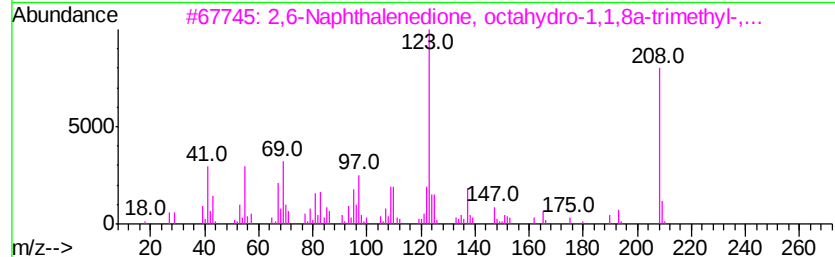
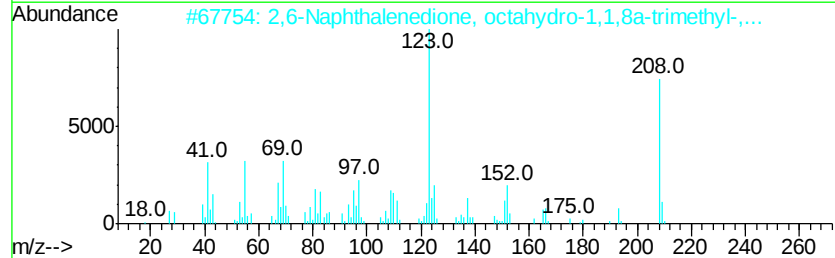
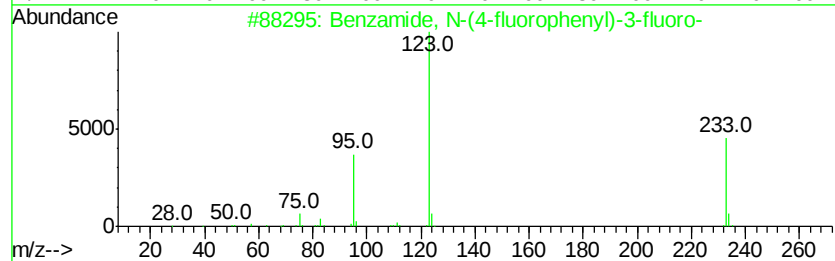
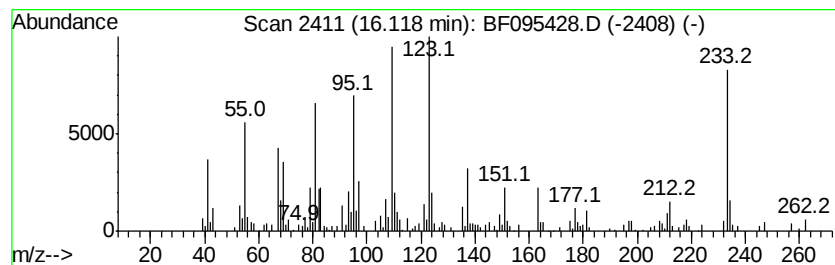
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 unknown16.12 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.12	5.31 ng	208583	Phenanthrene-d10	15.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzamide, N-(4-fluorophenyl)-3-...	233	C13H9F2NO	1000307-16-3	43
2		2,6-Naphthalenedione, octahydro-...	208	C13H20O2	057289-17-5	35
3		2,6-Naphthalenedione, octahydro-...	208	C13H20O2	057289-16-4	20
4		Benzamide, 4-fluoro-N-(5H-tetraz...	207	C8H6FN5O	1000262-68-4	18
5		Phenanthro[9,10-d]oxazole, 2-met...	233	C16H11NO	021639-88-3	18



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052517\
Data File : BF095428.D
Acq On : 25 May 2017 17:43
Operator : SJ/MA
Sample : I3348-01
Misc :
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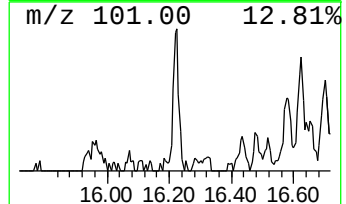
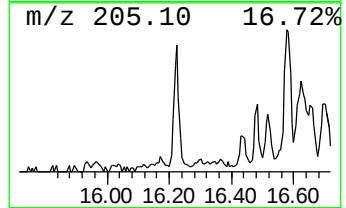
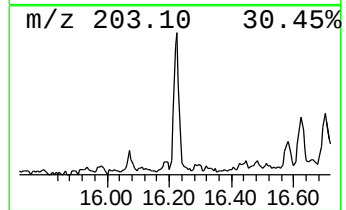
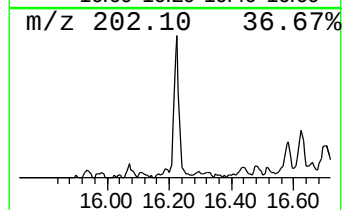
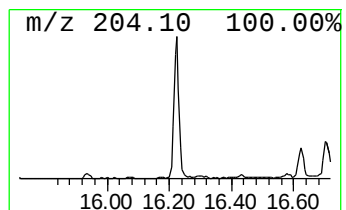
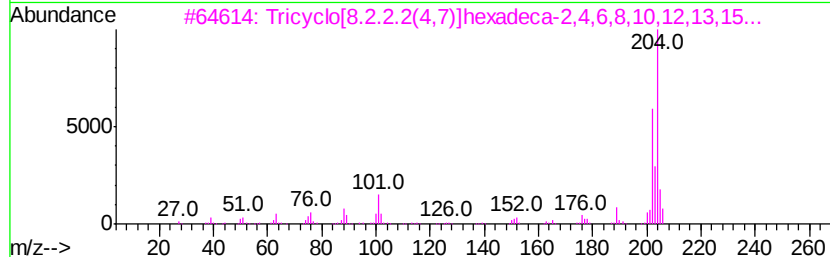
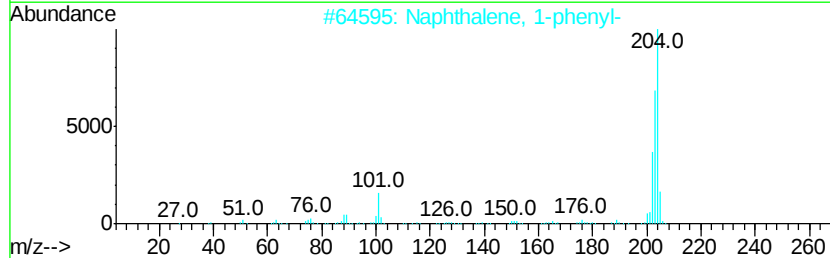
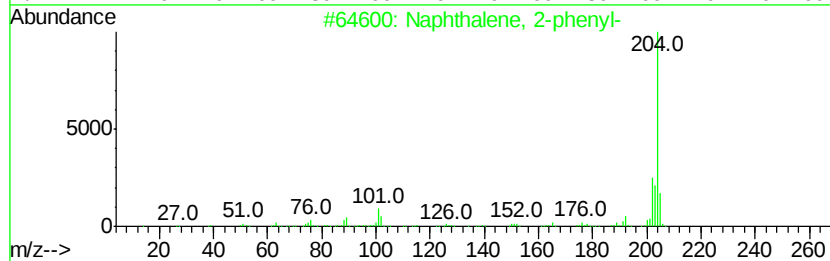
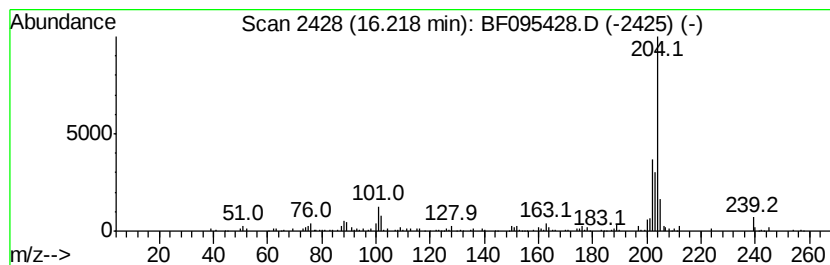
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.22	6.30 ng	247307	Phenanthrene-d10	15.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	95
2		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	70
3		Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	68
4		[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	58
5		9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	58



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052517\
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Sample : I3348-01
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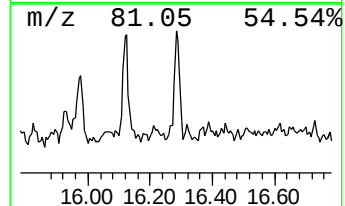
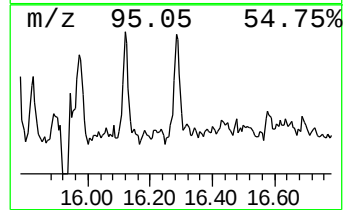
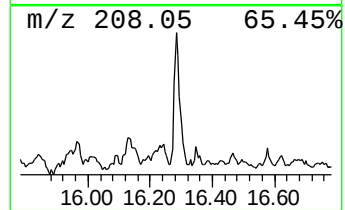
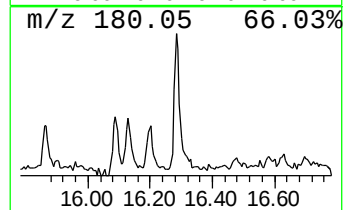
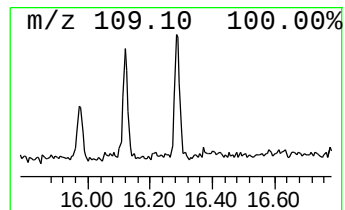
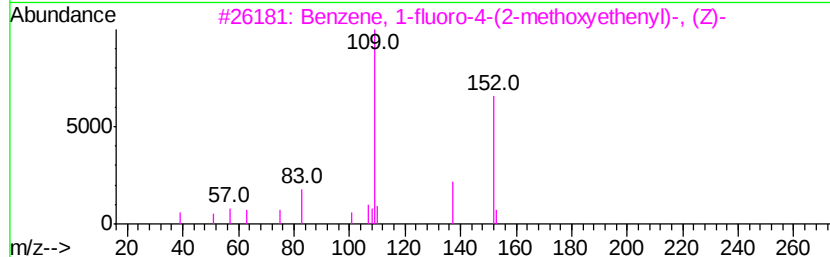
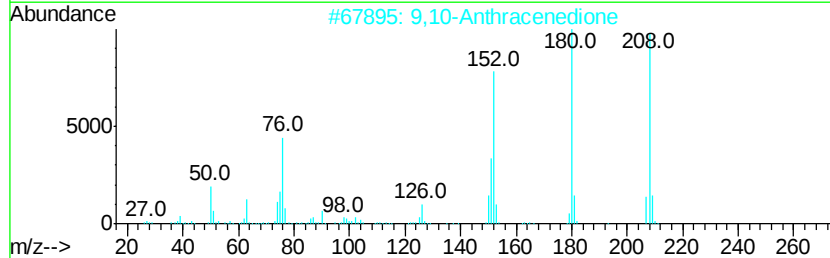
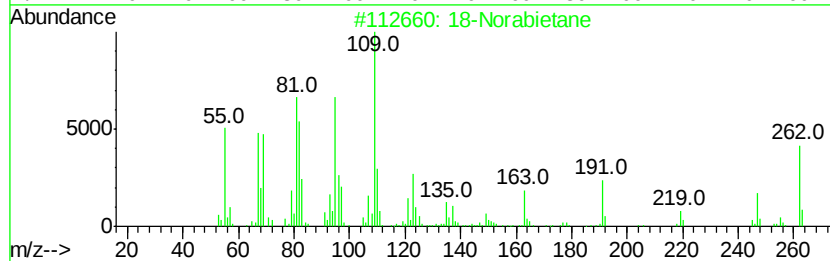
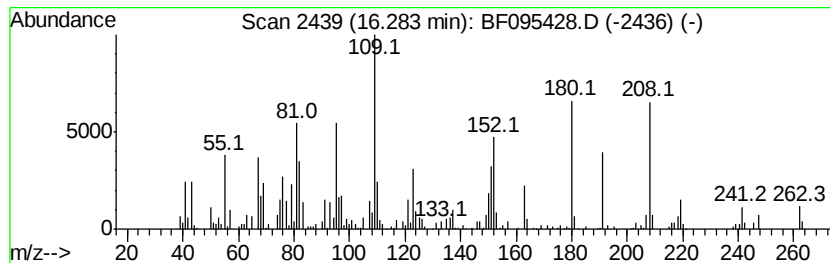
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ClientSampleId :
VNJ-225/289/330/139/15532/VNJ-23

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 18-Norabietane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.	
16.28	5.21 ng	204375	Phenanthrene-d10	15.00	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	18-Norabietane	262	C19H34	1000293-16-6	86
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	70
3	Benzene, 1-fluoro-4-(2-methoxvet...	152	C9H9FO	054533-37-8	30
4	Bicyclo[4.1.0]heptan-3-one, 4,7,...	152	C10H16O	004176-04-9	25
5	Benzene, 1-fluoro-2-(2-methoxyet...	152	C9H9FO	054533-36-7	25



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052517\
Data File : BF095428.D
Acq On : 25 May 2017 17:43
Operator : SJ/MA
Sample : I3348-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

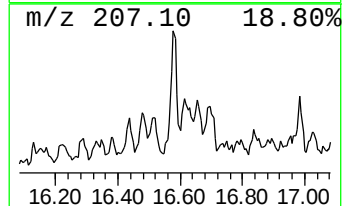
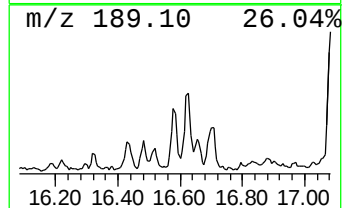
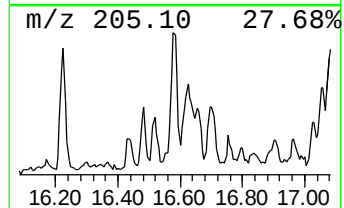
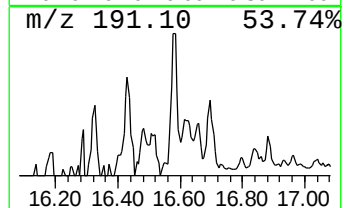
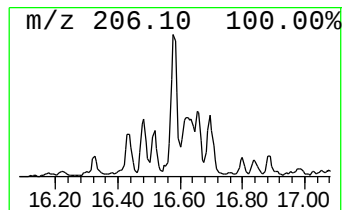
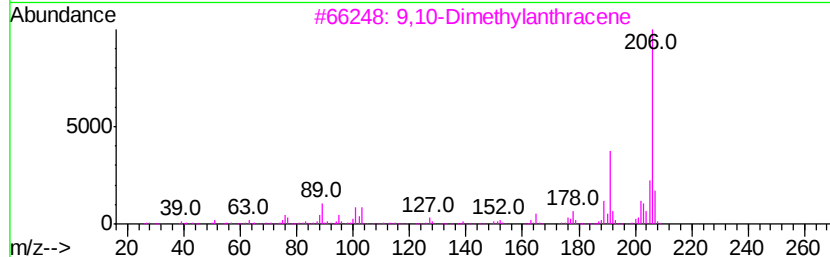
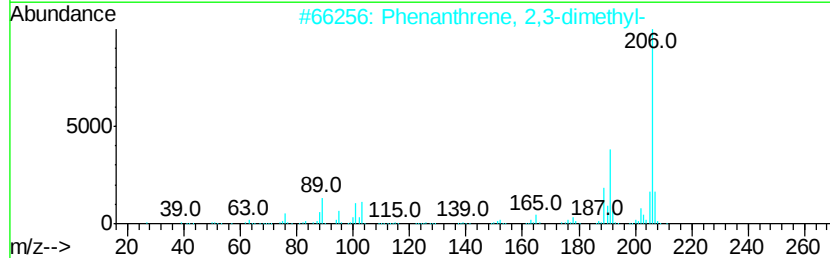
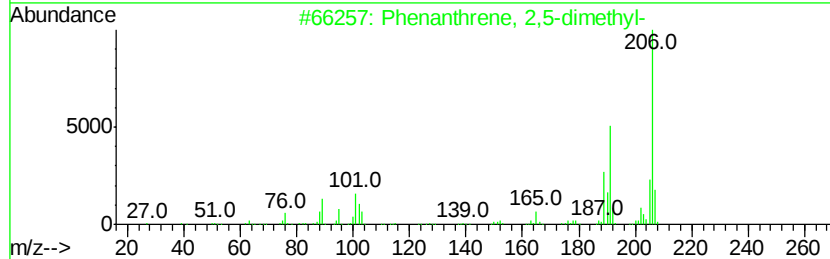
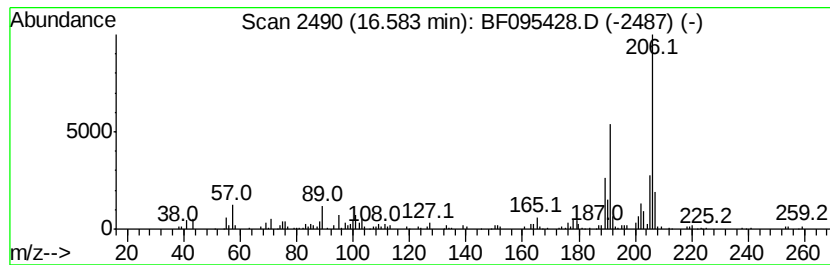
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.	
16.58	4.16 ng	163281	Phenanthrene-d10	15.00	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	91
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052517\
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Operator : SJ/MA
Sample : I3348-01
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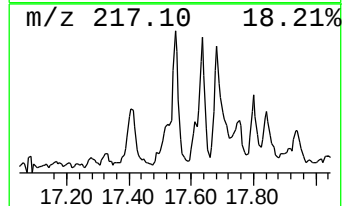
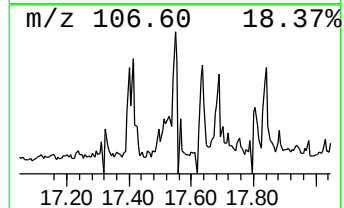
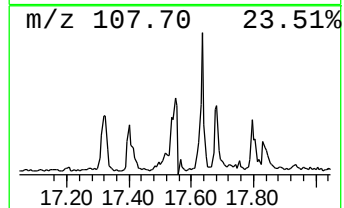
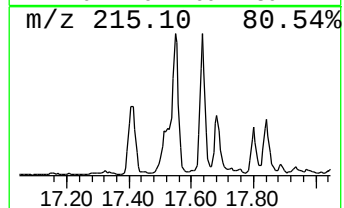
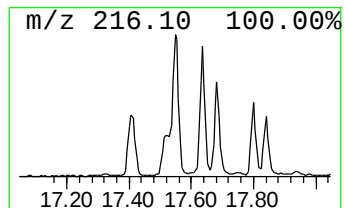
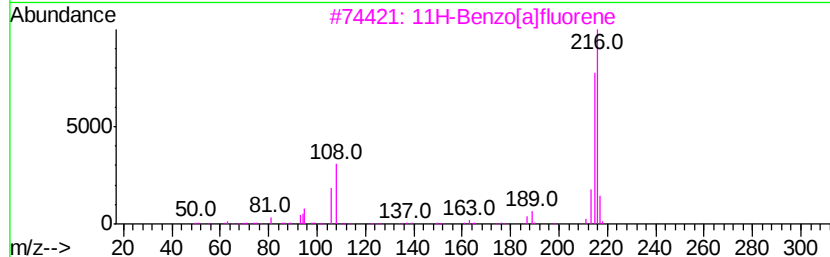
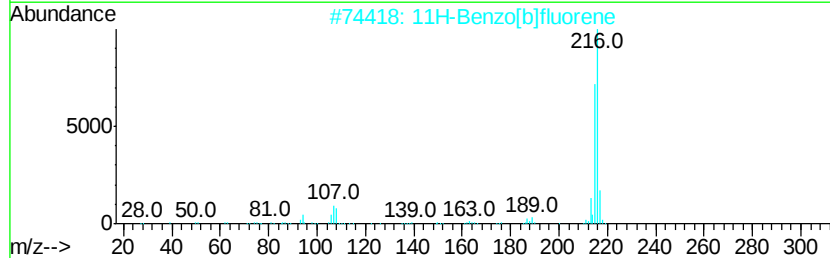
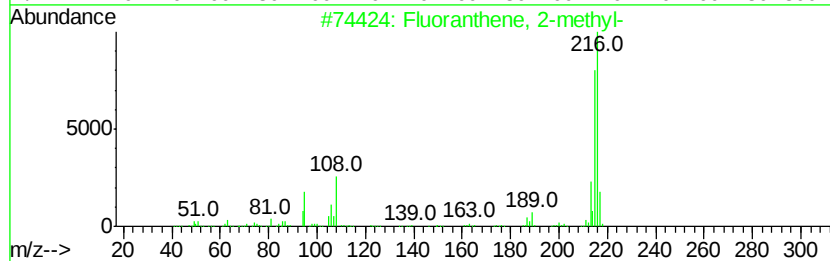
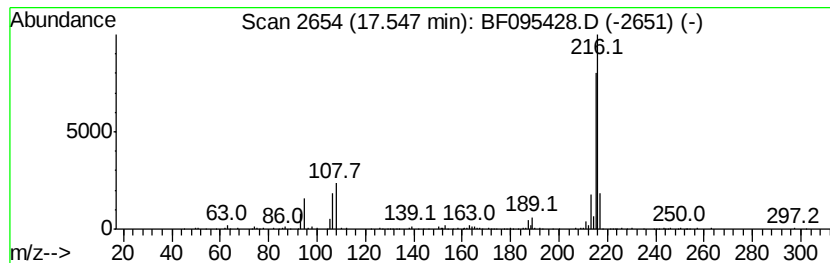
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Fluoranthene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.		
17.55	4.47 ng	341139	Chrysene-d12	18.68		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	94
2		11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3		11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
4		7H-Benzo[c]fluorene	216	C17H12	000205-12-9	87
5		Pyrene, 1-methyl-	216	C17H12	002381-21-7	87



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052517\
Data File : BF095428.D
Acq On : 25 May 2017 17:43
Operator : SJ/MA
Sample : I3348-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

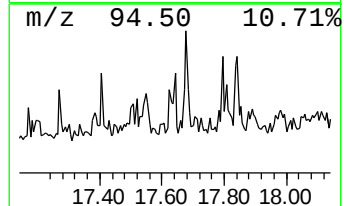
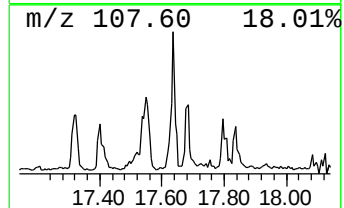
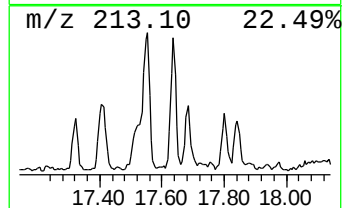
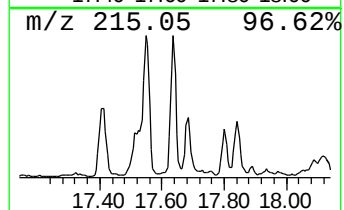
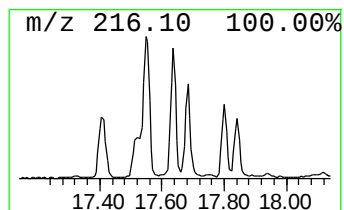
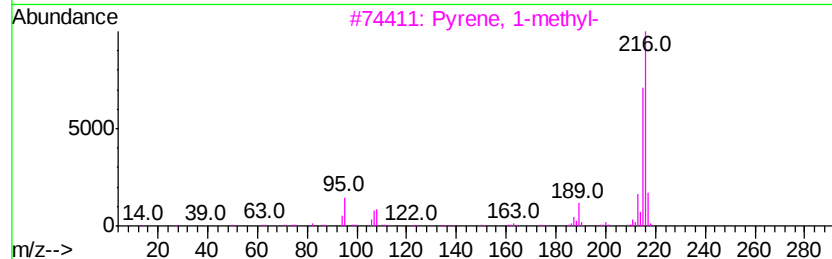
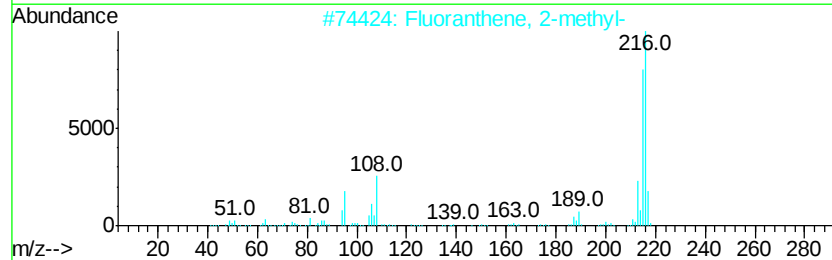
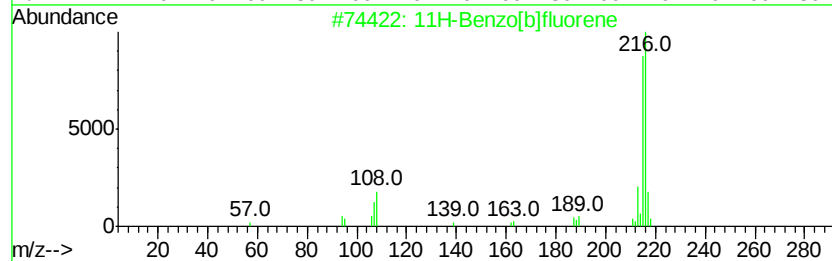
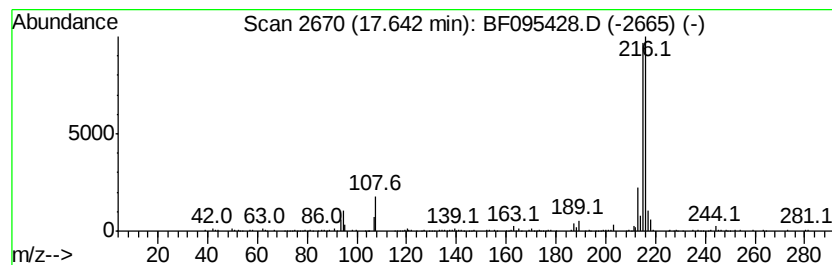
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 11H-Benzo[b]fluorene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.	
17.64	3.57 ng	272233	Chrysene-d12	18.68	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	92
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	64



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052517\
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Acq On : 25 May 2017 17:43
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Sample : I3348-01
Misc :
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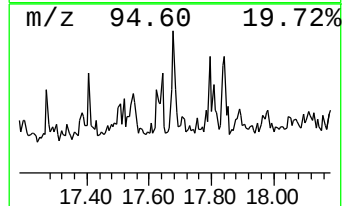
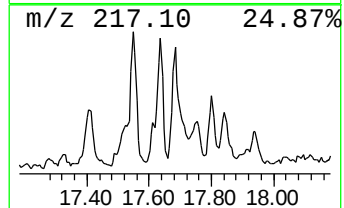
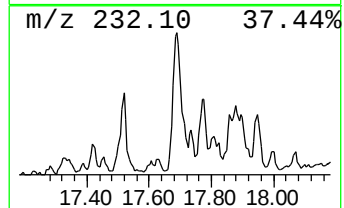
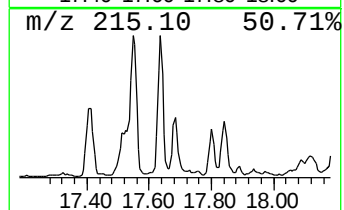
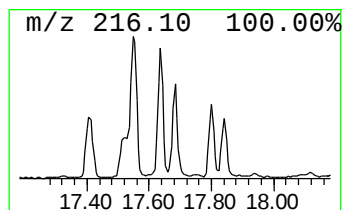
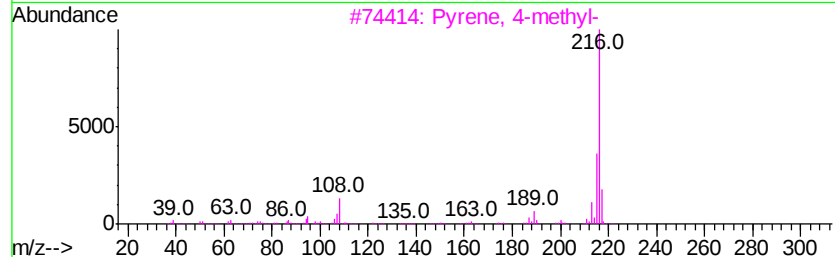
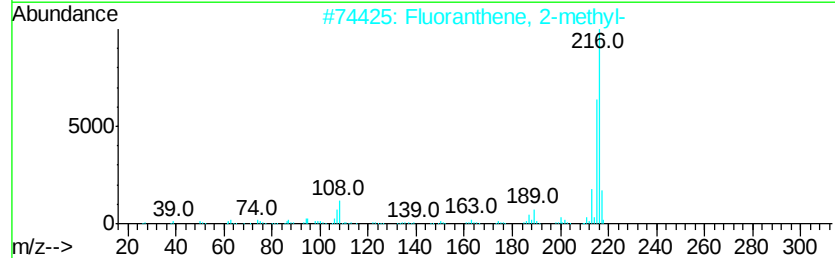
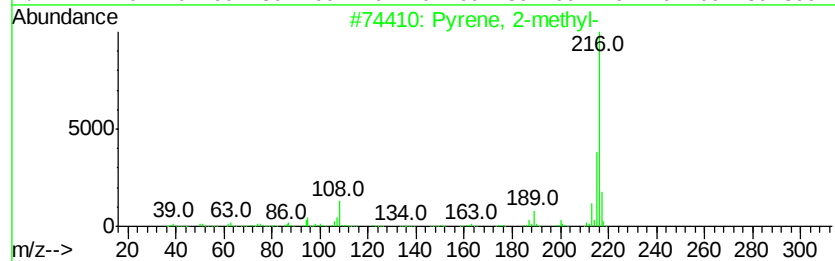
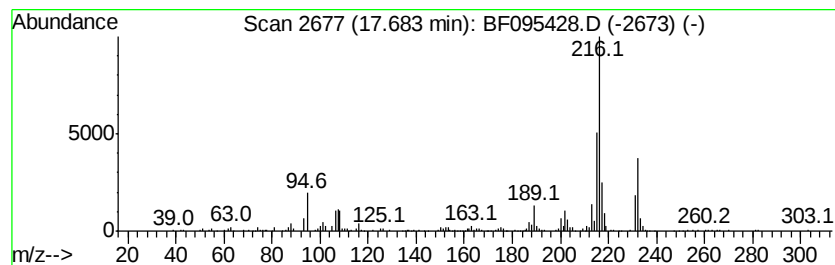
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Pyrene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.68	5.50 ng	419004	Chrysene-d12	18.68
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Pyrene, 2-methyl-	216 C17H12	003442-78-2 87
2		Fluoranthene, 2-methyl-	216 C17H12	033543-31-6 78
3		Pyrene, 4-methyl-	216 C17H12	003353-12-6 70
4		11H-Benzo[a]fluorene	216 C17H12	000238-84-6 70
5		Pyrene, 1-methyl-	216 C17H12	002381-21-7 64



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052517\
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Acq On : 25 May 2017 17:43
Operator : SJ/MA
Sample : I3348-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

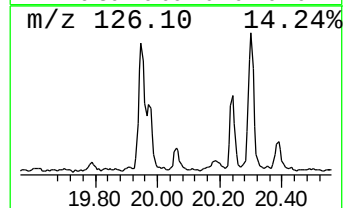
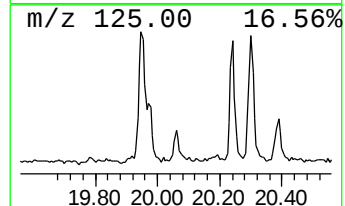
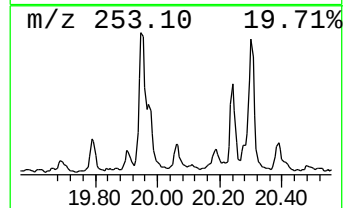
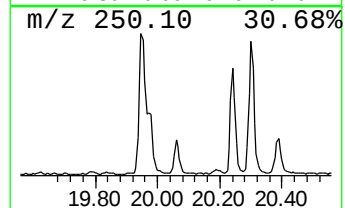
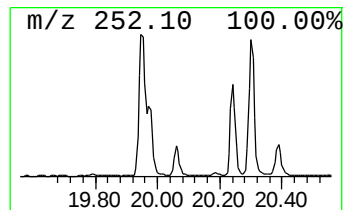
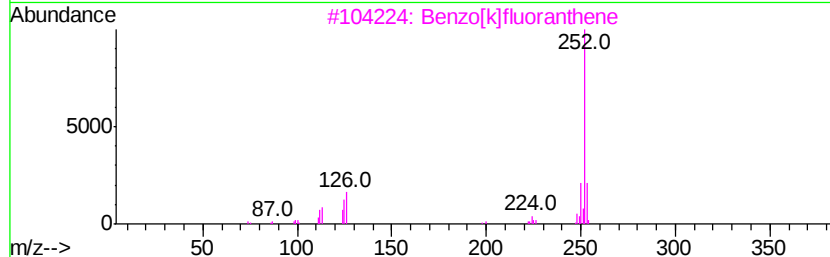
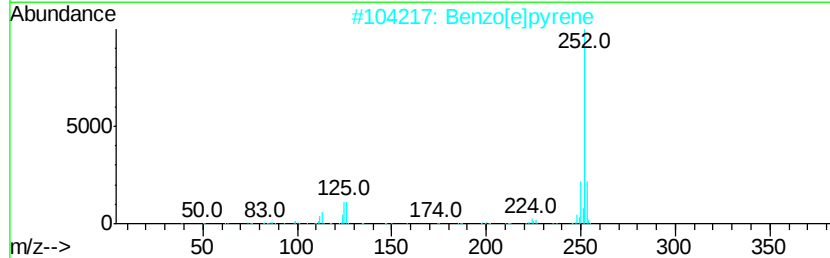
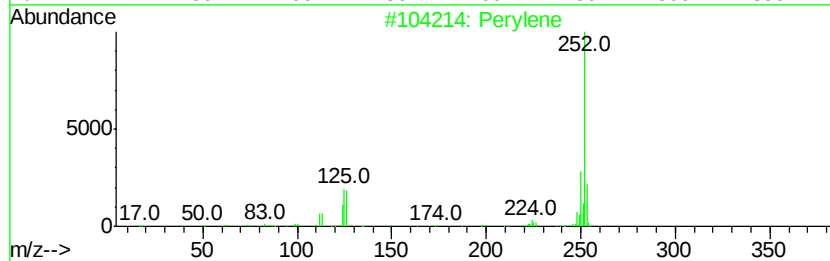
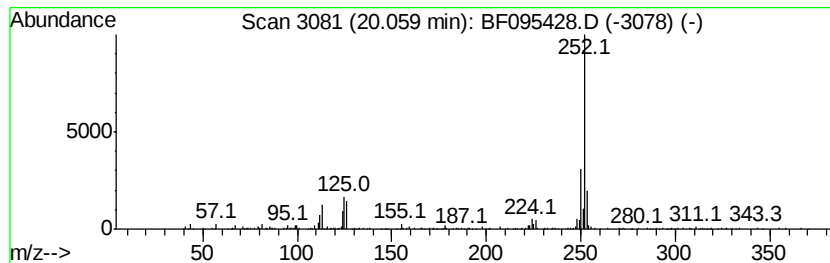
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Perylene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.06	17.00 ng	342388	Perylene-d12	20.36
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Perylene	252 C20H12	000198-55-0 98
2		Benzo[e]pyrene	252 C20H12	000192-97-2 97
3		Benzo[k]fluoranthene	252 C20H12	000207-08-9 96
4		Benzo[i]fluoranthene	252 C20H12	000205-82-3 90
5		Benz[e]acephenanthrylene	252 C20H12	000205-99-2 90



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052517\
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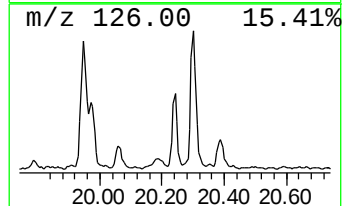
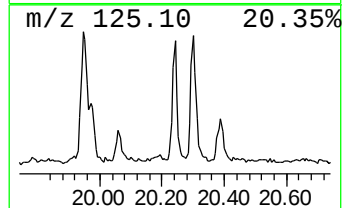
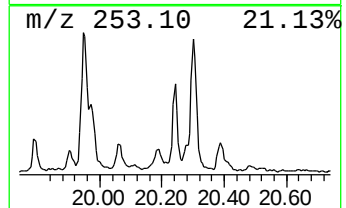
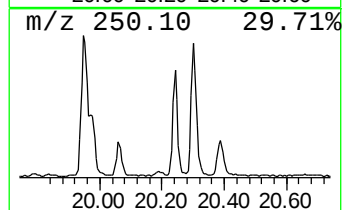
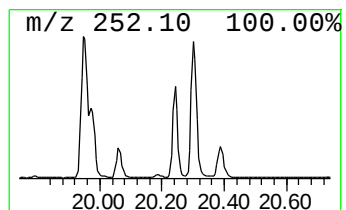
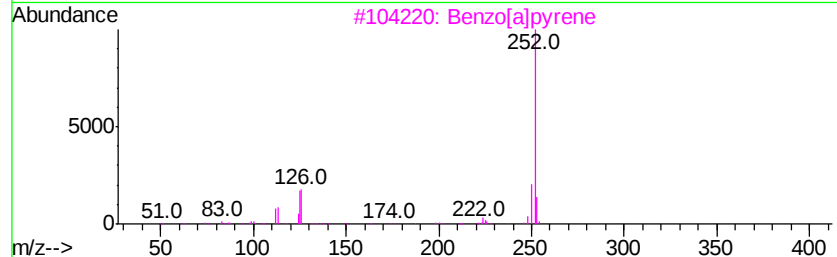
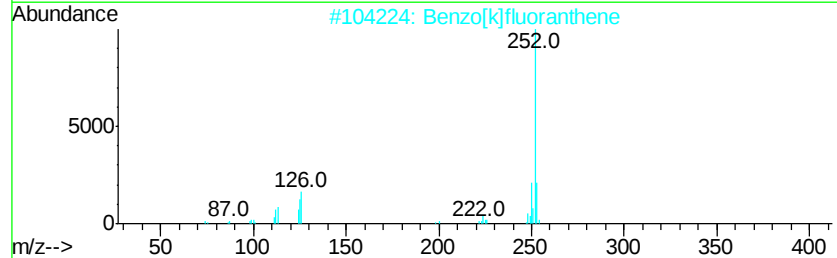
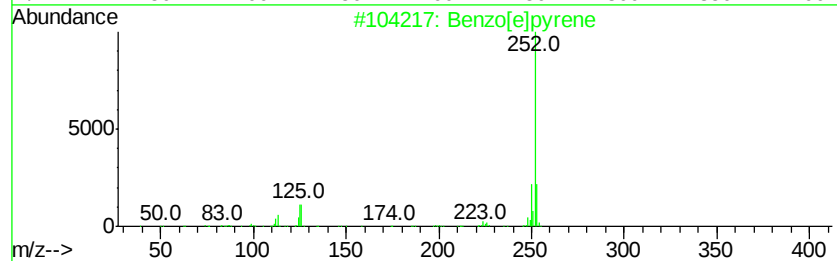
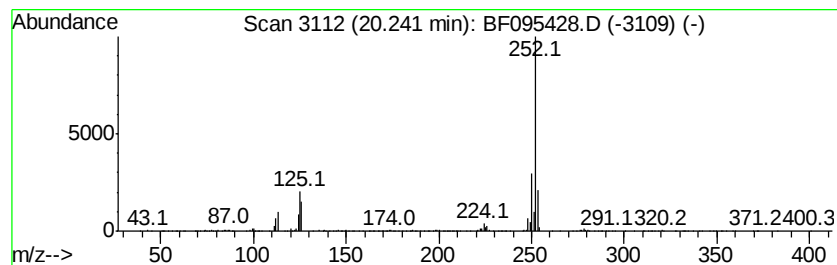
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.24	20.44 ng	411679	Perylene-d12	20.36
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Benzo[e]pyrene	252 C20H12	000192-97-2 98
2		Benzo[k]fluoranthene	252 C20H12	000207-08-9 96
3		Benzo[a]pyrene	252 C20H12	000050-32-8 96
4		Perylene	252 C20H12	000198-55-0 95
5		Benz[e]acephenanthrylene	252 C20H12	000205-99-2 93



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052517\
Data File : BF095428.D
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Operator : SJ/MA
Sample : I3348-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

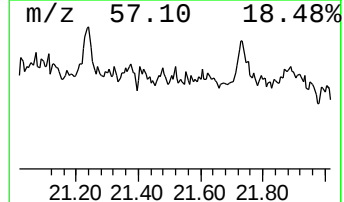
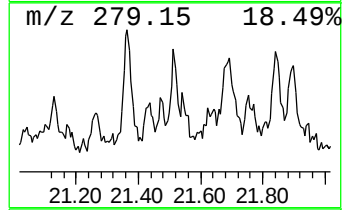
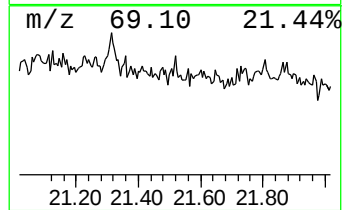
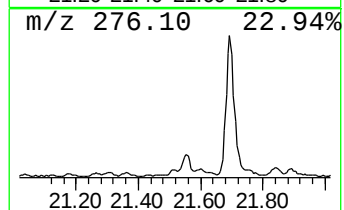
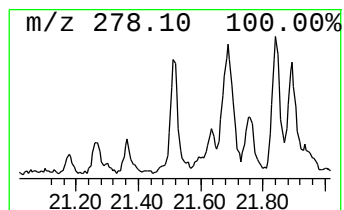
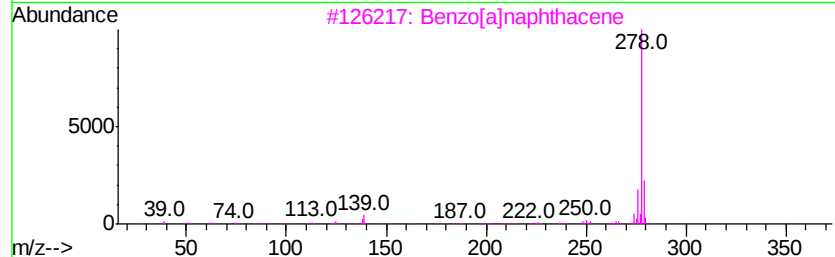
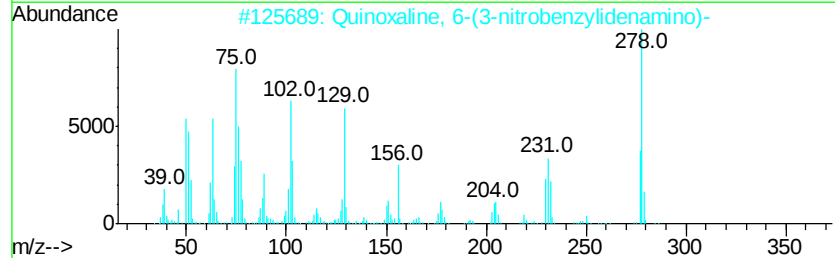
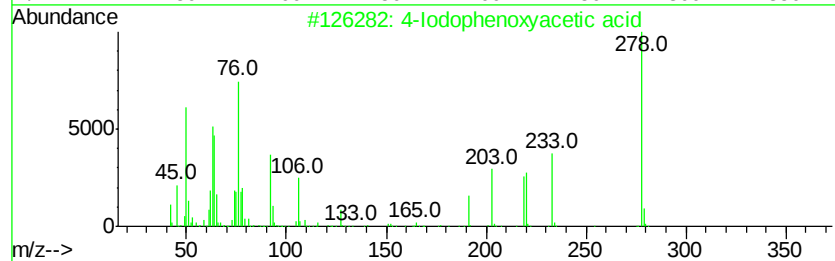
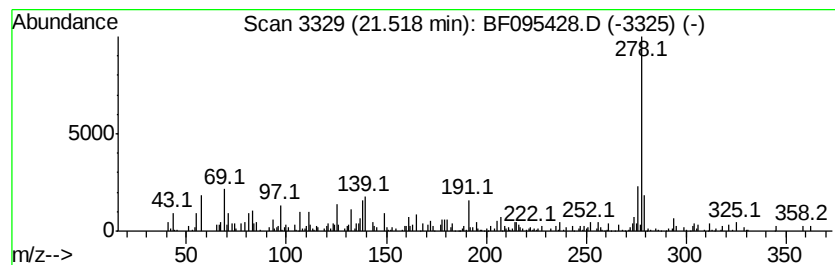
Instrument :
BNA_F
ClientSampleId :
VNJ-225/289/330/139/15532/VNJ-23

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 4-Iodophenoxyacetic acid Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD		R.T.	
21.52	5.26 ng	105927	Perylene-d12		20.36	
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		4-Iodophenoxyacetic acid	278	C8H7IO3	001878-94-0	95
2		Quinoxaline, 6-(3-nitrobenzylideneamino)-	278	C15H10N4O2	302800-55-1	90
3		Benzo[al]naphthacene	278	C22H14	000226-88-0	64
4		Dibenz[al,hl]anthracene	278	C22H14	000053-70-3	58
5		Benzo[b]triphenylene	278	C22H14	000215-58-7	58



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052517\
Data File : BF095428.D
Acq On : 25 May 2017 17:43
Operator : SJ/MA
Sample : I3348-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

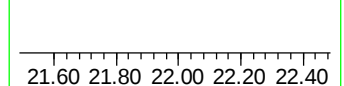
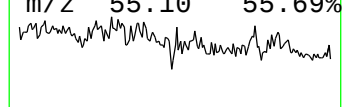
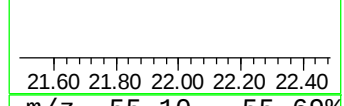
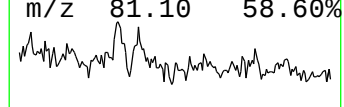
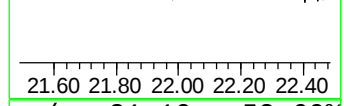
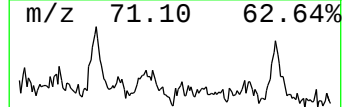
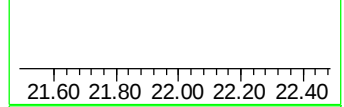
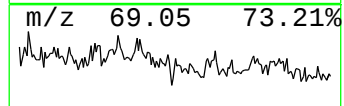
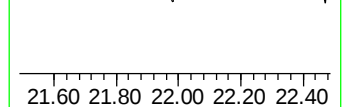
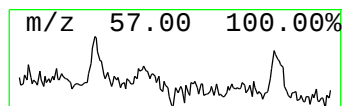
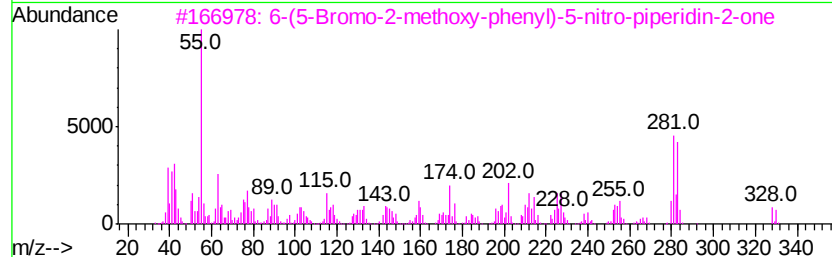
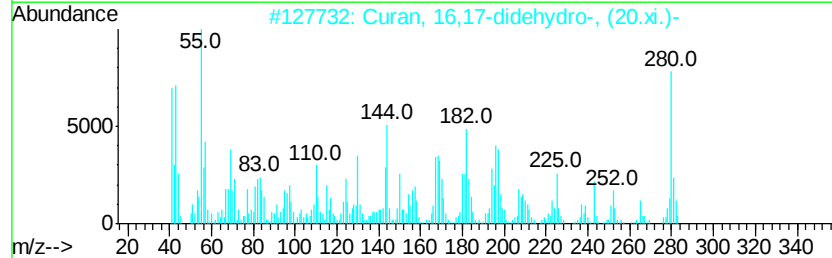
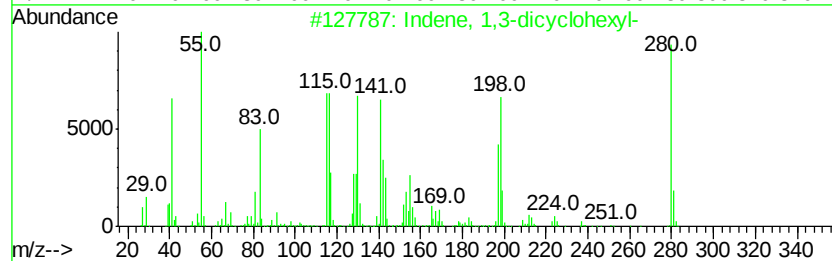
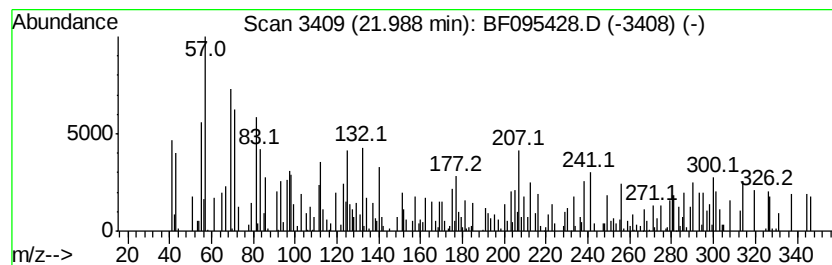
Instrument :
BNA_F
ClientSampleId :
VNJ-225/289/330/139/15532/VNJ-23

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 unknown21.99 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.		
21.99	3.40 ng	68408	Perylene-d12	20.36		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Indene, 1,3-dicyclohexyl-	280	C21H28	003661-66-3	11
2		Curan, 16,17-didehydro-, (20.xi.)-	280	C19H24N2	056053-18-0	9
3		6-(5-Bromo-2-methoxy-phenyl)-5-n...	328	C12H13BrN2O4	347328-22-7	7
4		13-Methylhentriacontane	451	C32H66	1000131-19-4	4
5		1-(Alpha-aminotoluene-p-sulfonyl...	285	C12H19N3O3S	051327-18-5	4



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052517\
Data File : BF095428.D
Acq On : 25 May 2017 17:43
Operator : SJ/MA
Sample : I3348-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
VNJ-225/289/330/139/15532/VNJ-23

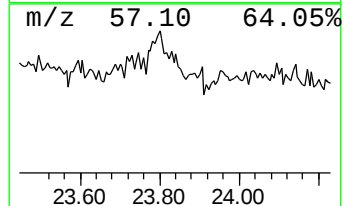
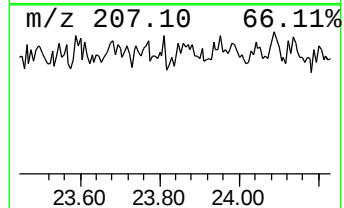
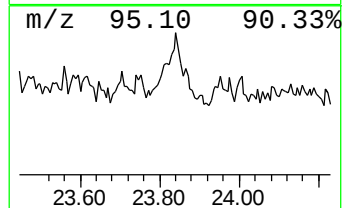
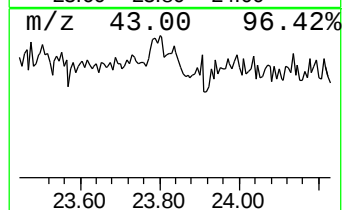
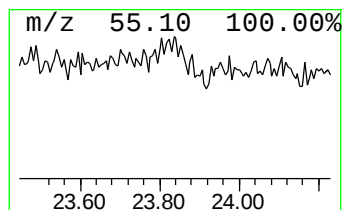
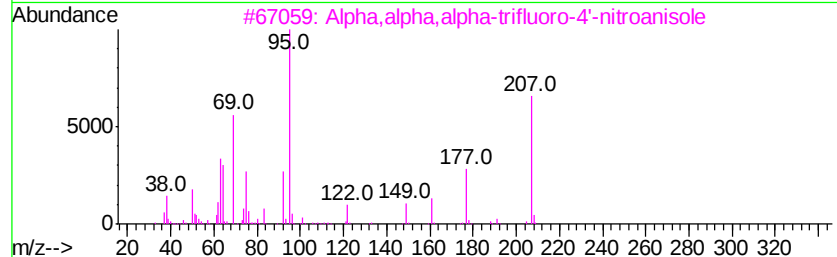
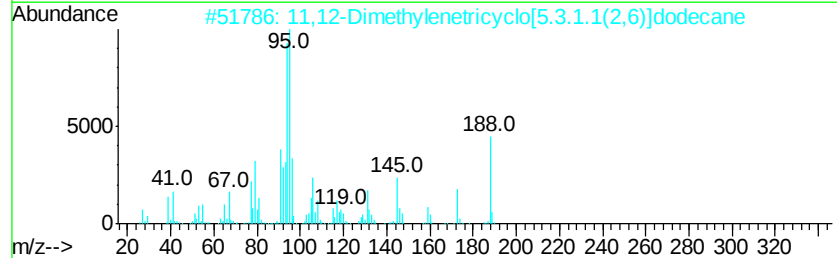
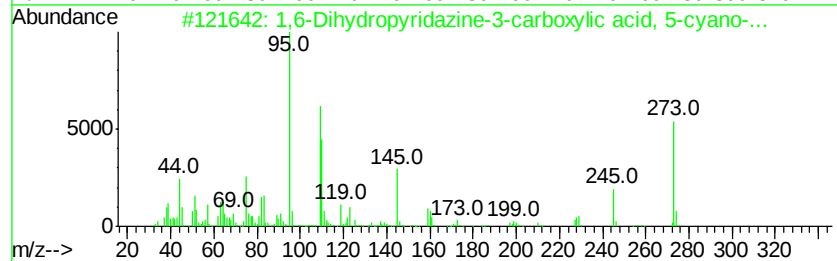
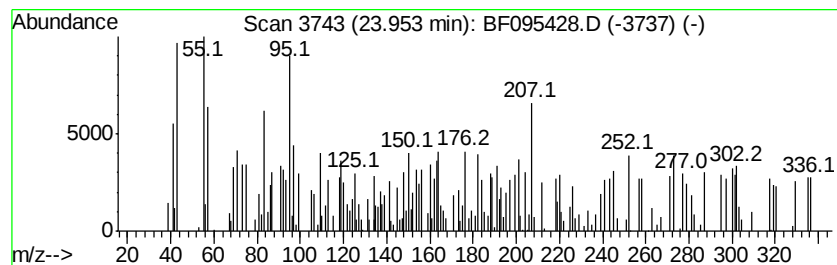
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 unknown23.95 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.95	3.31 ng	66698	Perylene-d12	20.36

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1,6-Dihydropyridazine-3-carboxyl...	273	C13H8FN3O3	1000304-05-0	27
2			11,12-Dimethylenetricyclo[5.3.1]...	188	C14H20	1000186-76-8	15
3			Alpha, alpha, alpha-trifluoro-4'-n...	207	C7H4F3NO3	000713-65-5	15
4			1-Propene, 3-bicyclo[2.2.1]hept-...	226	C17H22	1000150-37-2	15
5			1-Methylimidazol-4-acetic acid, ...	320	C13H9F5N2O2	1000308-72-8	14



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052517\
 Data File : BF095428.D
 Acq On : 25 May 2017 17:43
 Operator : SJ/MA
 Sample : I3348-01
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-225/289/330/139/15532/VNJ-23

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.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
2-Pentanone, 4-hy...	5.10	6.8 ng		180082	1	7.74	529199	20.0
unknown7.41	7.41	93.0 ng		2460830	1	7.74	529199	20.0
Phenanthrene, 2-m...	15.78	5.7 ng		224594	4	15.00	784975	20.0
Anthracene, 2-met...	15.82	6.2 ng		243256	4	15.00	784975	20.0
1H-Cyclopropa[1]p...	15.89	3.7 ng		144163	4	15.00	784975	20.0
4H-Cyclopenta[def...	15.93	11.7 ng		458233	4	15.00	784975	20.0
Phenanthrene, 1-m...	15.97	12.6 ng		495103	4	15.00	784975	20.0
unknown16.12	16.12	5.3 ng		208583	4	15.00	784975	20.0
Naphthalene, 2-ph...	16.22	6.3 ng		247307	4	15.00	784975	20.0
18-Norabietane	16.28	5.2 ng		204375	4	15.00	784975	20.0
Phenanthrene, 2,5...	16.58	4.2 ng		163281	4	15.00	784975	20.0
Fluoranthene, 2-m...	17.55	4.5 ng		341139	5	18.68	1524880	20.0
11H-Benzo[b]fluorene	17.64	3.6 ng		272233	5	18.68	1524880	20.0
Pyrene, 2-methyl-	17.68	5.5 ng		419004	5	18.68	1524880	20.0
Perylene	20.06	17.0 ng		342388	6	20.36	402729	20.0
Benzo[e]pyrene	20.24	20.4 ng		411679	6	20.36	402729	20.0
4-Iodophenoxyacet...	21.52	5.3 ng		105927	6	20.36	402729	20.0
unknown21.99	21.99	3.4 ng		68408	6	20.36	402729	20.0
unknown23.95	23.95	3.3 ng		66698	6	20.36	402729	20.0