

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
 Data File : BF081035.D
 Acq On : 18 Aug 2015 7:56
 Operator : UM/IZ
 Sample : G3310-01
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 P001-DS01-0012-01

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-BF081715.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	4.764	239	243	252	rBV	625747	1067023	6.33%	0.493%
2	5.210	280	282	284	rBV	1581810	1574214	9.35%	0.728%
3	5.416	298	300	303	rVB2	277649	311986	1.85%	0.144%
4	6.273	372	375	378	rBV	1238583	1576050	9.36%	0.728%
5	6.399	383	386	388	rBV	1662550	1691676	10.04%	0.782%
6	6.627	404	406	408	rBV	482965	393298	2.33%	0.182%
7	6.787	417	420	422	rVB	1248503	1248761	7.41%	0.577%
8	7.199	453	456	458	rBV	1139110	1147298	6.81%	0.530%
9	7.919	516	519	521	rBV	339067	479053	2.84%	0.221%
10	8.993	611	613	615	rVB	1845237	1556605	9.24%	0.719%
11	9.393	645	648	650	rVB	311181	307119	1.82%	0.142%
12	9.519	657	659	662	rVB	212446	177990	1.06%	0.082%
13	9.656	669	671	673	rBV2	413844	423321	2.51%	0.196%
14	10.319	726	729	731	rBV	298923	318363	1.89%	0.147%
15	10.445	737	740	742	rVB	822747	783358	4.65%	0.362%
16	10.879	775	778	781	rBV	1943079	2868515	17.03%	1.326%
17	11.096	793	797	799	rBV	1476532	1710991	10.16%	0.791%
18	11.165	799	803	806	rVB2	1722627	2402322	14.26%	1.110%
19	11.256	806	811	814	rVB	3751381	5744041	34.10%	2.655%
20	11.416	822	825	828	rBV	736695	1554183	9.23%	0.718%
21	11.519	829	834	836	rVB	5026002	10378151	61.61%	4.796%
22	11.565	836	838	840	rVB2	2221828	2512554	14.92%	1.161%
23	11.611	840	842	843	rBV	569531	770344	4.57%	0.356%
24	11.656	843	846	849	rVB2	4009819	8071848	47.92%	3.730%
25	11.725	849	852	854	rBV2	816423	1341711	7.97%	0.620%
26	11.793	854	858	859	rBV	4469217	8845710	52.52%	4.088%
27	11.828	859	861	864	rVB	3885280	7953061	47.22%	3.675%
28	11.953	868	872	876	rBV2	3997471	10882009	64.61%	5.029%
29	12.056	876	881	883	rVB3	3386593	7569545	44.94%	3.498%
30	12.113	883	886	887	rVB	1397823	1917223	11.38%	0.886%
31	12.148	887	889	891	rBV	347234	425032	2.52%	0.196%
32	12.193	891	893	894	rBV2	234572	321257	1.91%	0.148%
33	12.308	899	903	906	rVV2	5164021	16843909	100.00%	7.784%
34	12.353	906	907	909	rVV	2148318	1705576	10.13%	0.788%

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35	12.445	911	915	917	rBV2	3493332	9841132	58.43%	4.548%
36	12.502	917	920	921	rVV2	4934392	9508306	56.45%	4.394%
37	12.536	921	923	924	rVV	3571836	4221572	25.06%	1.951%
38	12.559	924	925	926	rVV	262580	186409	1.11%	0.086%
39	12.593	926	928	929	rVB	785763	781678	4.64%	0.361%
40	12.639	929	932	934	rBV	2711881	4105966	24.38%	1.898%
41	12.696	934	937	939	rVV2	3305822	6917585	41.07%	3.197%
42	12.731	939	940	941	rVV	2056103	2383449	14.15%	1.101%
43	12.788	941	945	948	rVB2	5019780	10845524	64.39%	5.012%
44	12.856	948	951	954	rBV3	2038977	4716432	28.00%	2.180%
45	12.948	954	959	960	rVV	3513550	6615337	39.27%	3.057%
46	12.993	960	963	967	rVB	4337279	9079838	53.91%	4.196%
47	13.062	967	969	972	rVB2	1084880	1892662	11.24%	0.875%
48	13.142	972	976	979	rBV2	3474283	9749628	57.88%	4.506%
49	13.188	979	980	982	rVV	3244258	2869466	17.04%	1.326%
50	13.222	982	983	985	rVB2	1622011	1603559	9.52%	0.741%
51	13.279	985	988	990	rBV	929270	1738278	10.32%	0.803%
52	13.359	990	995	997	rVV	3878205	9098191	54.01%	4.205%
53	13.394	997	998	999	rVV	913983	643742	3.82%	0.297%
54	13.428	999	1001	1003	rVB2	759422	772928	4.59%	0.357%
55	13.474	1003	1005	1008	rVB2	370586	495491	2.94%	0.229%
56	13.542	1008	1011	1013	rBV	2468214	2964095	17.60%	1.370%
57	13.611	1013	1017	1018	rVV2	708229	1119734	6.65%	0.517%
58	13.645	1018	1020	1022	rVB	652163	785613	4.66%	0.363%
59	13.714	1022	1026	1027	rBV	1467283	1763485	10.47%	0.815%
60	13.748	1027	1029	1030	rVV2	272474	488901	2.90%	0.226%
61	13.771	1030	1031	1033	rVV2	410394	454450	2.70%	0.210%
62	13.816	1033	1035	1037	rVB2	1413762	1464192	8.69%	0.677%
63	14.022	1051	1053	1055	rVV2	777909	1053161	6.25%	0.487%
64	14.114	1059	1061	1062	rBV	185580	192728	1.14%	0.089%
65	14.274	1073	1075	1078	rBV3	94774	183881	1.09%	0.085%
66	14.525	1096	1097	1102	rBV3	207125	353118	2.10%	0.163%
67	14.754	1115	1117	1121	rVB2	123464	234926	1.39%	0.109%
68	15.119	1146	1149	1152	rVB2	131092	214714	1.27%	0.099%
69	16.720	1286	1289	1297	rVB	75209	170625	1.01%	0.079%

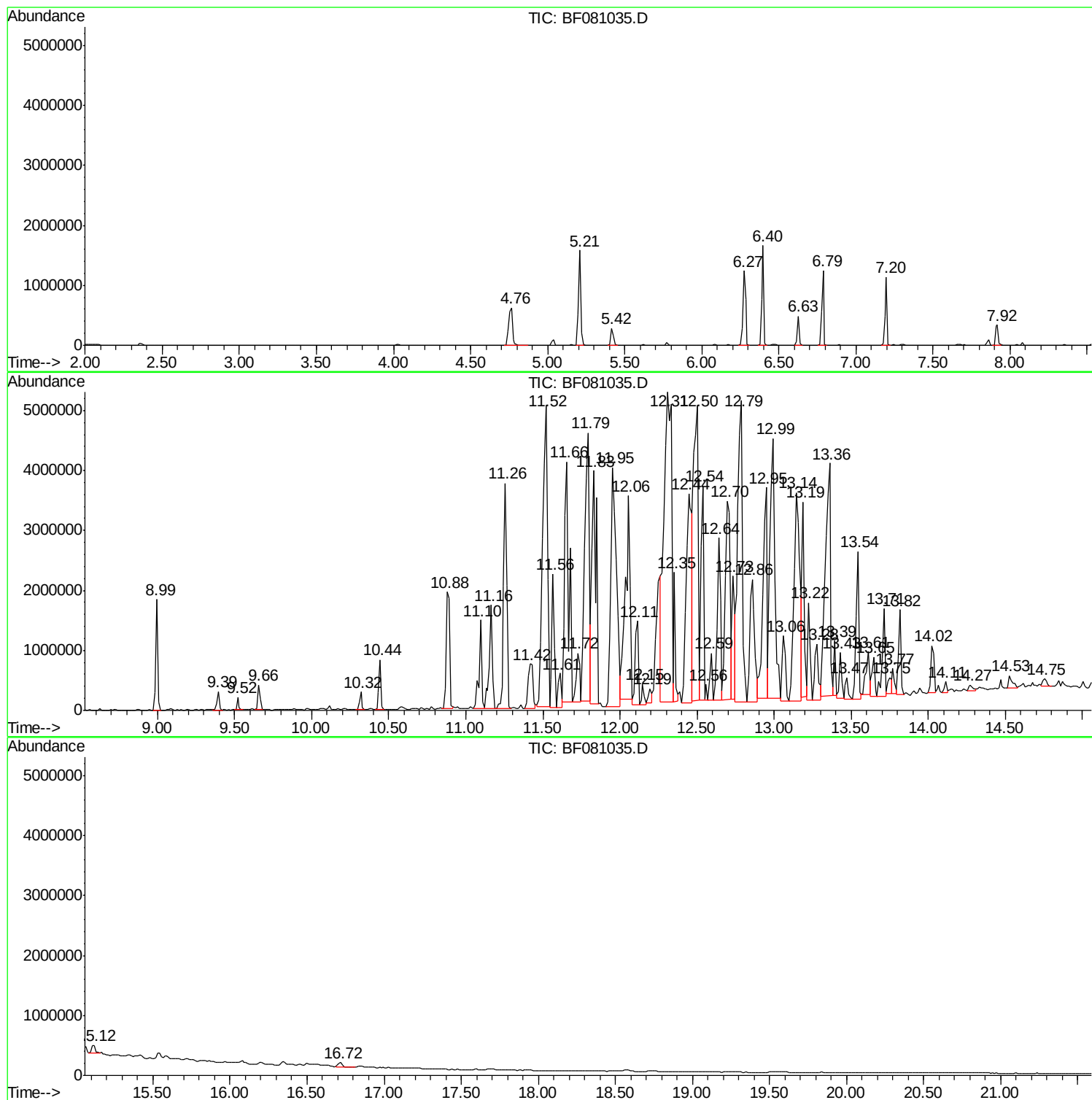
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



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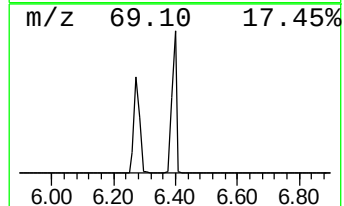
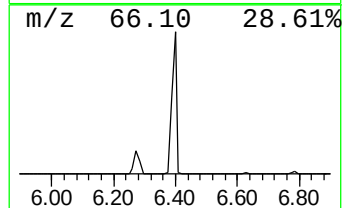
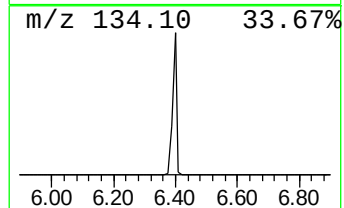
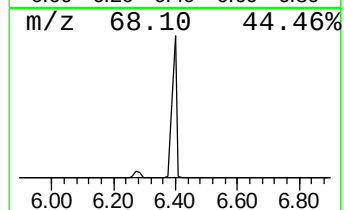
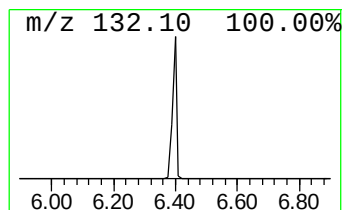
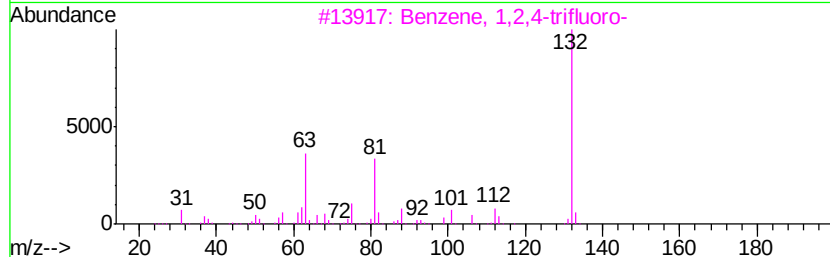
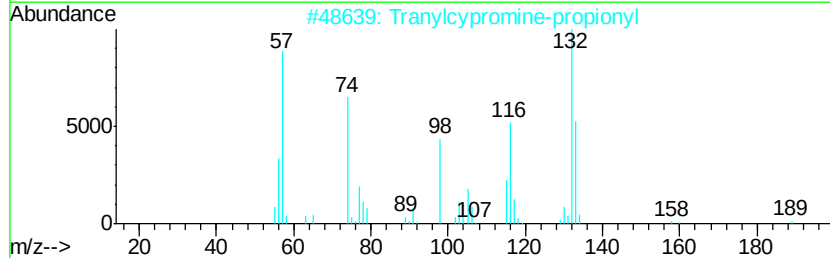
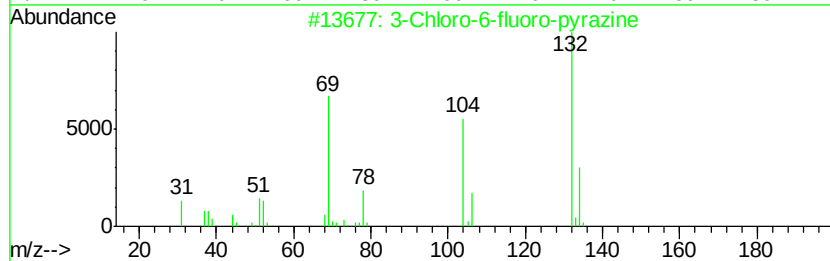
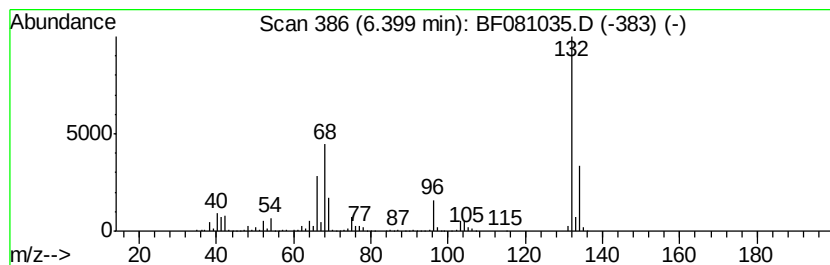
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 unknown6.40 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.40	86.03 ng	1691680	1,4-Dichlorobenzene-d4	6.63

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2		Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
3		Benzene, 1,2,4-trifluoro-	132	C6H3F3	000367-23-7	9
4		Benzene, 1,3,5-trifluoro-	132	C6H3F3	000372-38-3	9
5		(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	9



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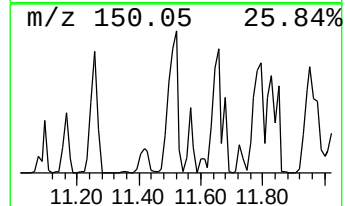
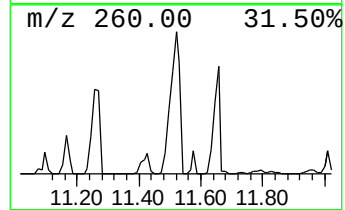
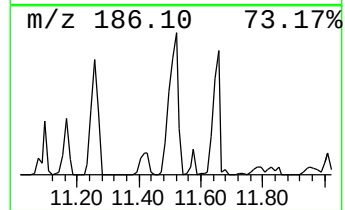
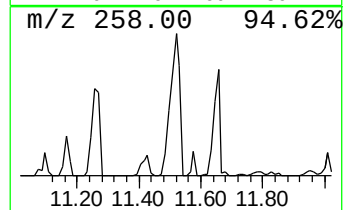
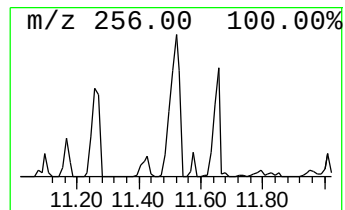
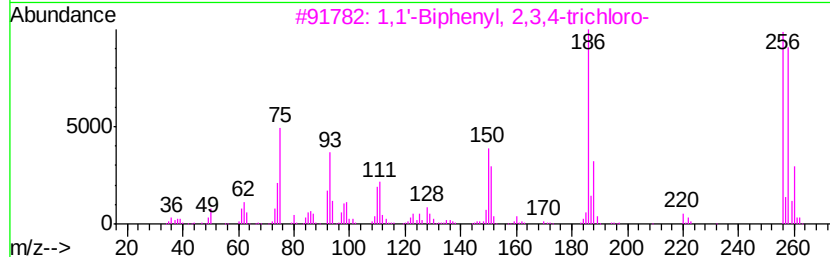
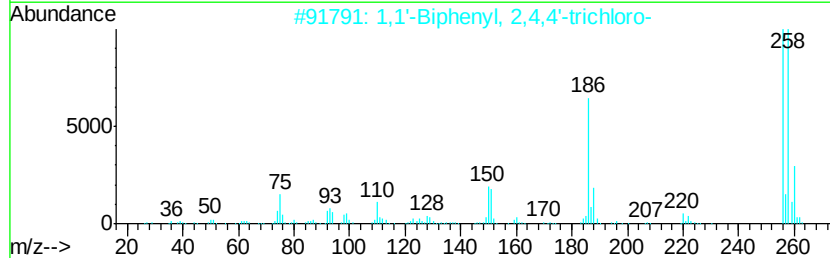
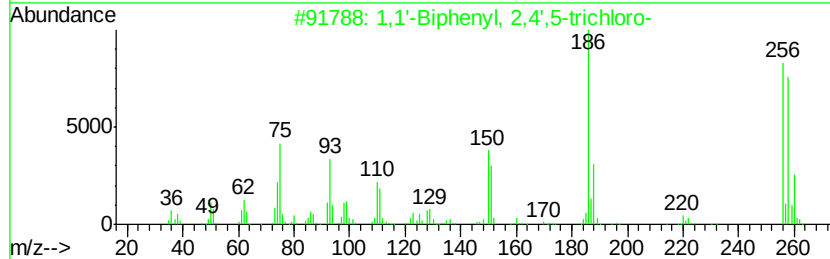
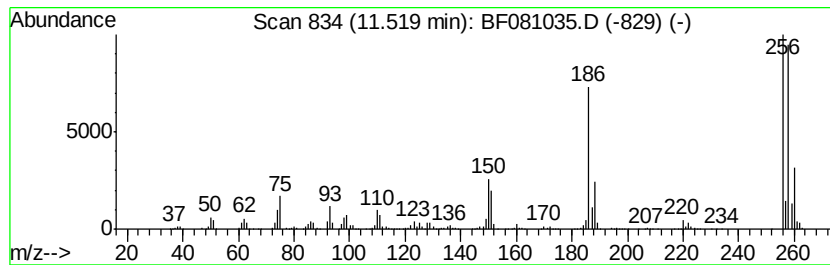
Instrument :
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 1,1'-Biphenyl, 2,4',5-trich... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.52	86.40 ng	10378200	Phenanthrene-d10	11.13	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2,4',5-trichloro-	256	C12H7Cl3	016606-02-3	99
2	1,1'-Biphenyl, 2,4,4'-trichloro-	256	C12H7Cl3	007012-37-5	99
3	1,1'-Biphenyl, 2,3,4-trichloro-	256	C12H7Cl3	055702-46-0	99
4	1,1'-Biphenyl, 2,4,5-trichloro-	256	C12H7Cl3	015862-07-4	98
5	1,1'-Biphenyl, 2,3,4'-Trichloro-	256	C12H7Cl3	038444-85-8	98



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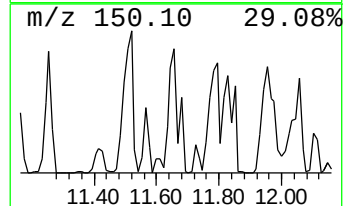
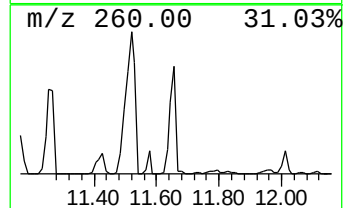
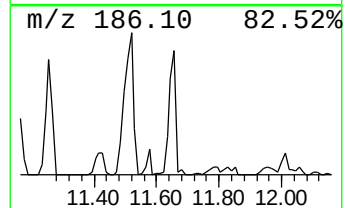
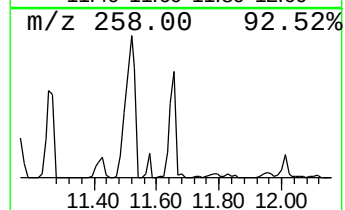
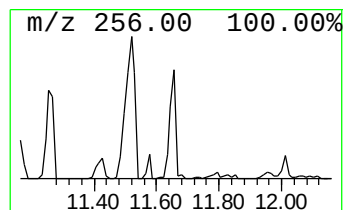
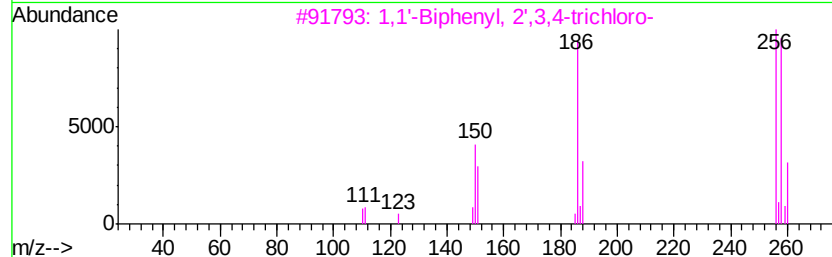
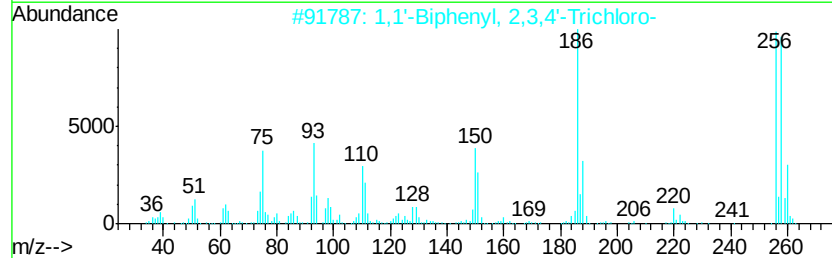
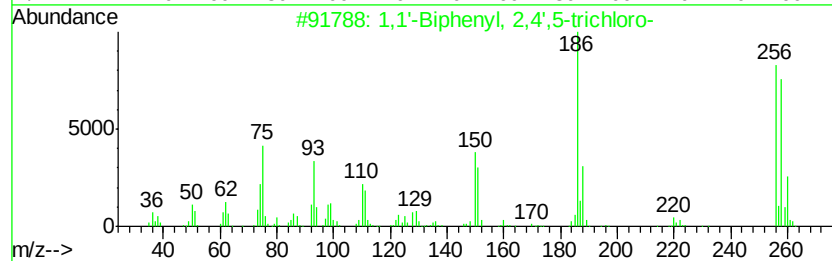
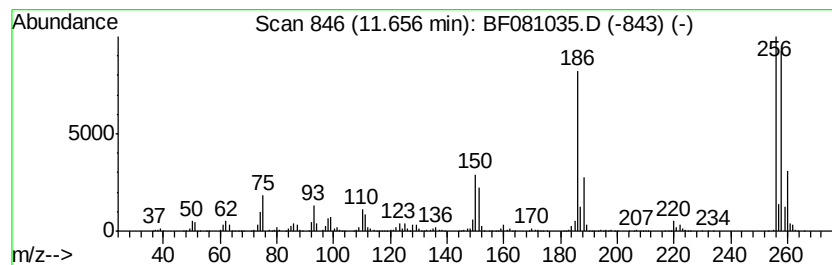
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Peak Number 3 1,1'-Biphenyl, 2,3,4'-Trich... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.66	67.20 ng	8071850	Phenanthrene-d10	11.13	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2,4',5-trichloro-	256	C12H7Cl3	016606-02-3	99
2	1,1'-Biphenyl, 2,3,4'-Trichloro-	256	C12H7Cl3	038444-85-8	98
3	1,1'-Biphenyl, 2',3,4-trichloro-	256	C12H7Cl3	038444-86-9	98
4	1,1'-Biphenyl, 2,4,5-trichloro-	256	C12H7Cl3	015862-07-4	98
5	1,1'-Biphenyl, 2,3,4-trichloro-	256	C12H7Cl3	055702-46-0	97



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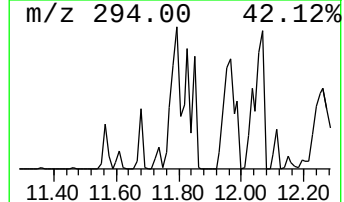
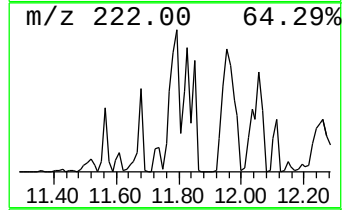
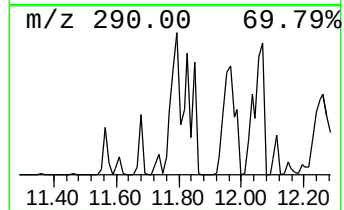
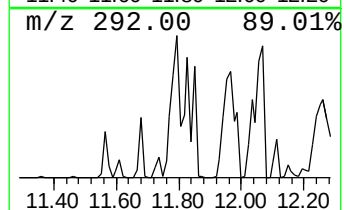
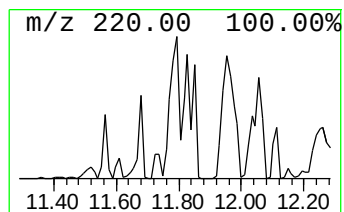
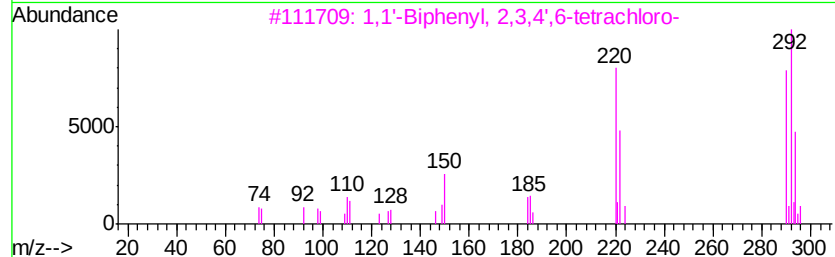
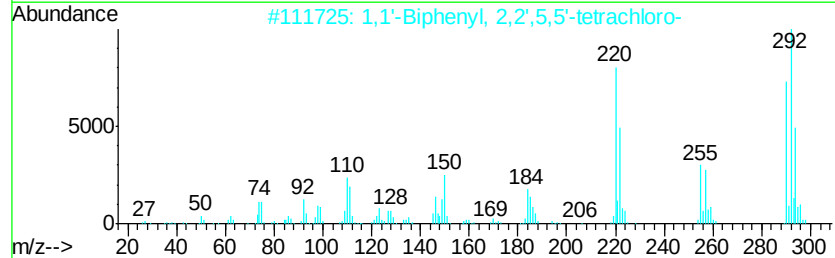
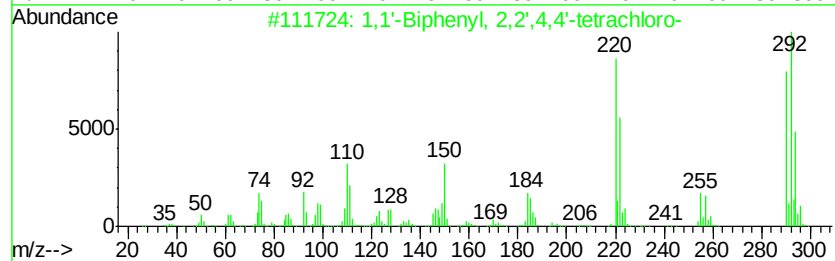
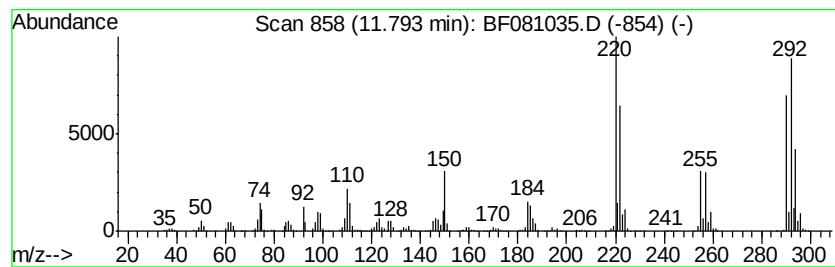
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Peak Number 4 1,1'-Biphenyl, 2,2',4,4'-te... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.		
11.79	73.64 ng	8845710	Phenanthrene-d10	11.13		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl,	2,2',4,4'-tetrach...	290	C12H6Cl4	002437-79-8	99
2	1,1'-Biphenyl,	2,2',5,5'-tetrach...	290	C12H6Cl4	035693-99-3	99
3	1,1'-Biphenyl,	2,3,4',6-tetrachl...	290	C12H6Cl4	052663-58-8	99
4	1,1'-Biphenyl,	2,2',4,5'-tetrach...	290	C12H6Cl4	041464-40-8	99
5	1,1'-Biphenyl,	2,2',6,6'-tetrach...	290	C12H6Cl4	015968-05-5	99



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081035.D
Acq On : 18 Aug 2015 7:56
Operator : UM/IZ
Sample : G3310-01
Misc :
ALS Vial : 33 Sample Multiplier: 1

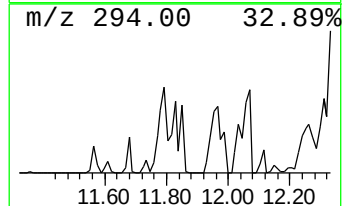
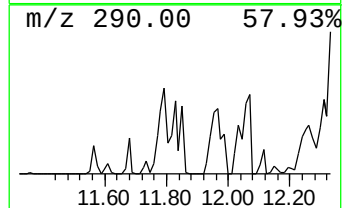
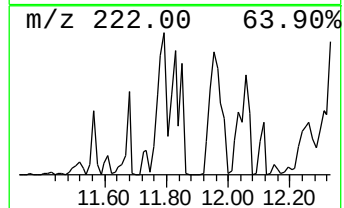
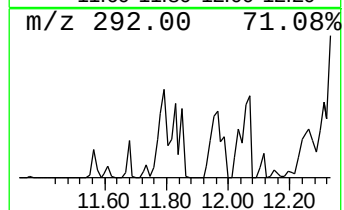
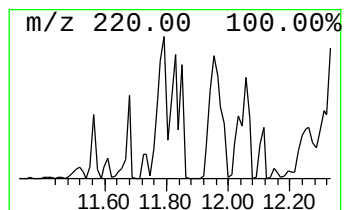
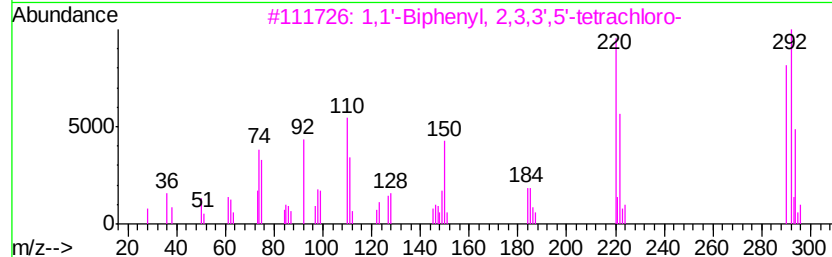
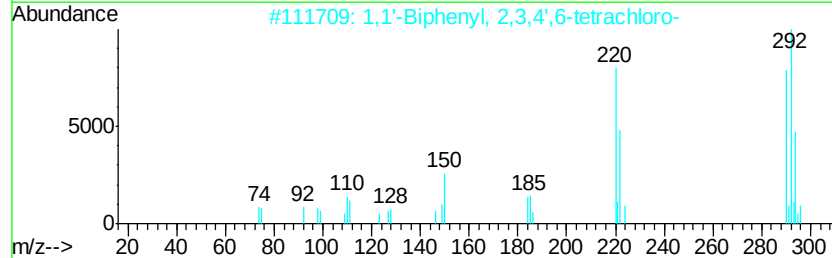
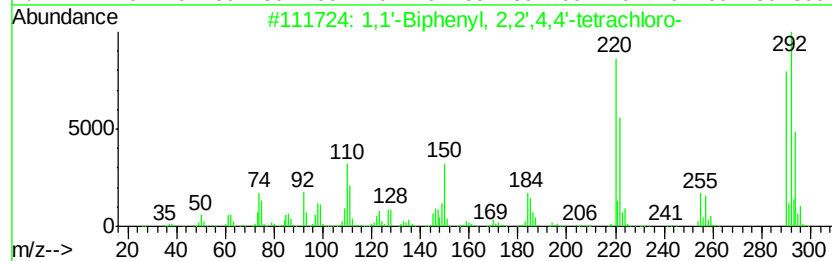
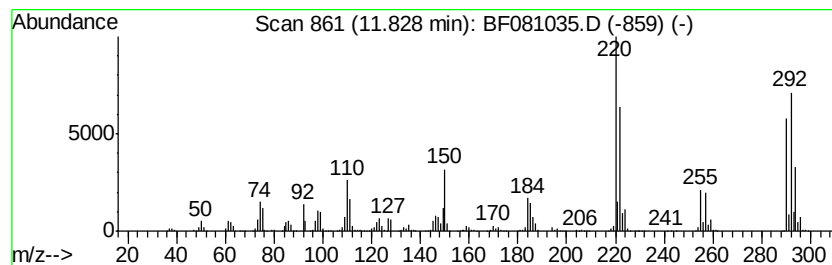
Instrument :
BNA_F
ClientSampleId :
P001-DS01-0012-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 1,1'-Biphenyl, 2,3,4',6-tet... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD		R.T.		
11.83	66.21 ng	7953060	Phenanthrene-d10		11.13		
Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'	-Biphenyl,	2,2',4,4'-tetrach...	290	C12H6Cl4	002437-79-8	99
2	1,1'	-Biphenyl,	2,3,4',6-tetrachl...	290	C12H6Cl4	052663-58-8	99
3	1,1'	-Biphenyl,	2,3,3',5'-tetrach...	290	C12H6Cl4	041464-49-7	99
4	1,1'	-Biphenyl,	2,2',6,6'-tetrach...	290	C12H6Cl4	015968-05-5	99
5	1,1'	-Biphenyl,	2,2',4,5'-tetrach...	290	C12H6Cl4	041464-40-8	99



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081035.D
Acq On : 18 Aug 2015 7:56
Operator : UM/IZ
Sample : G3310-01
Misc :
ALS Vial : 33 Sample Multiplier: 1

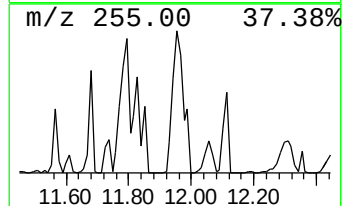
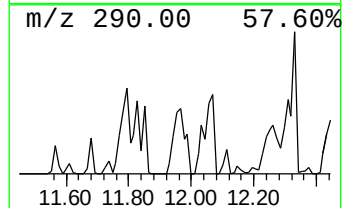
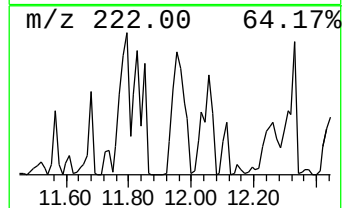
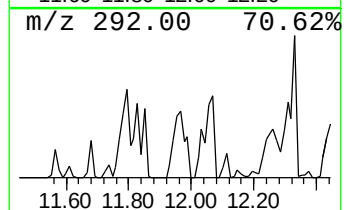
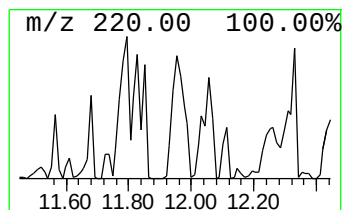
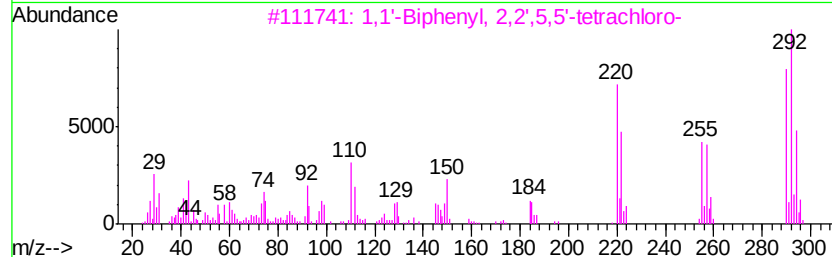
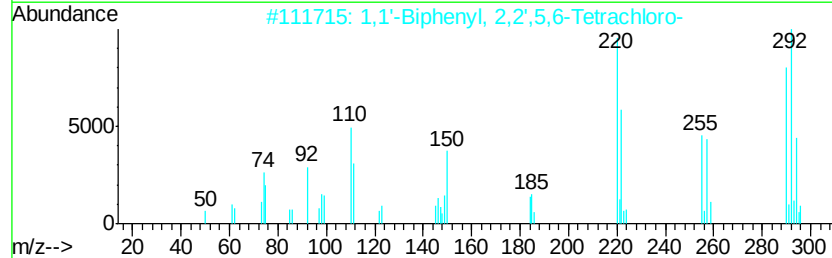
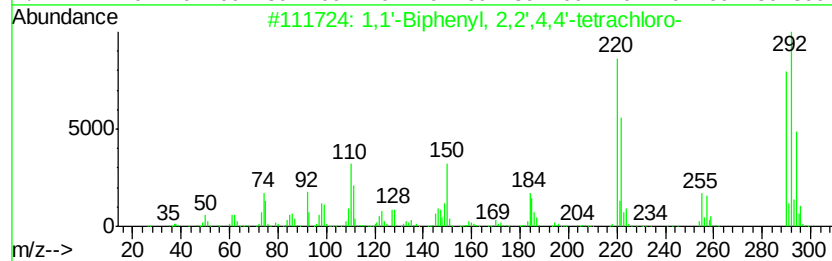
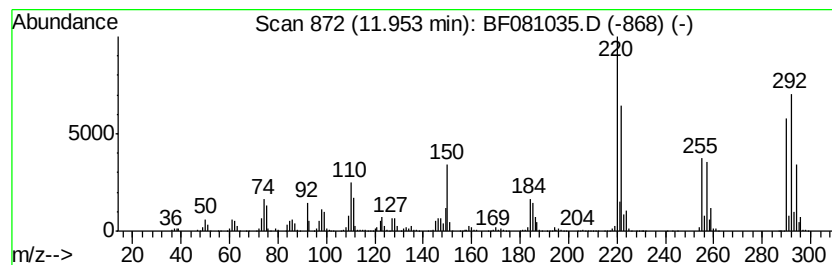
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P001-DS01-0012-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 1,1'-Biphenyl, 2,2',5,6-Tet... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.		
11.95	90.60 ng	10882000	Phenanthrene-d10	11.13		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl,	2,2',4,4'-tetrachloro	290	C12H6Cl4	002437-79-8	99
2	1,1'-Biphenyl,	2,2',5,6-Tetrachloro	290	C12H6Cl4	041464-41-9	99
3	1,1'-Biphenyl,	2,2',5,5'-tetrachloro	290	C12H6Cl4	035693-99-3	99
4	1,1'-Biphenyl,	2,3,4',6-tetrachloro	290	C12H6Cl4	052663-58-8	99
5	1,1'-Biphenyl,	2,2',4,5'-tetrachloro	290	C12H6Cl4	041464-40-8	99



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081035.D
Acq On : 18 Aug 2015 7:56
Operator : UM/IZ
Sample : G3310-01
Misc :
ALS Vial : 33 Sample Multiplier: 1

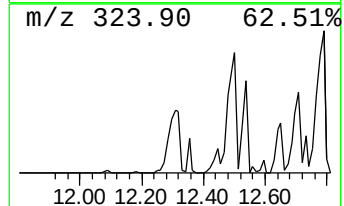
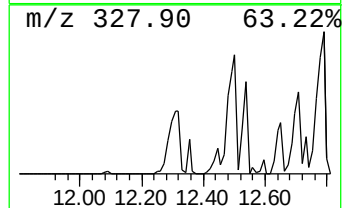
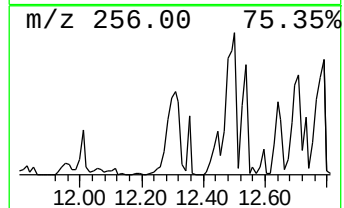
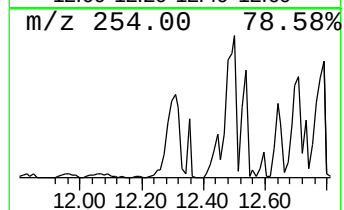
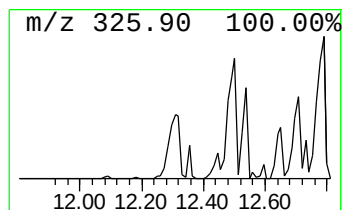
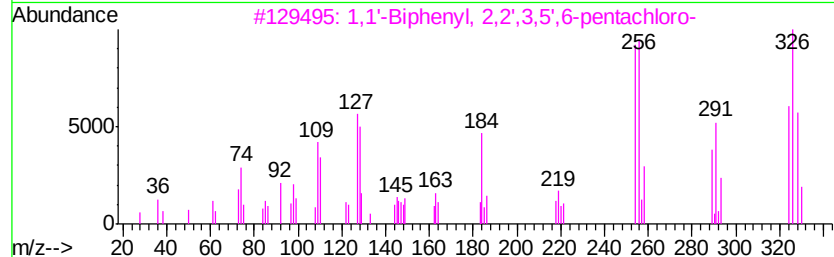
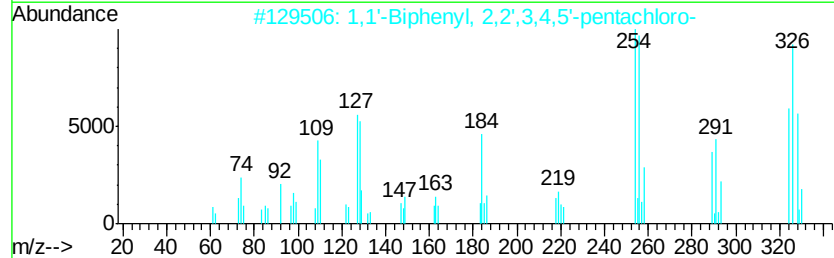
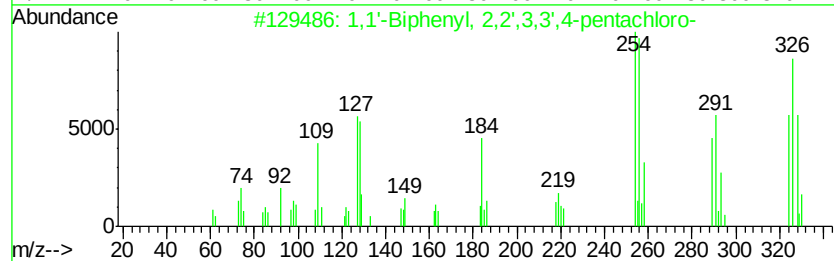
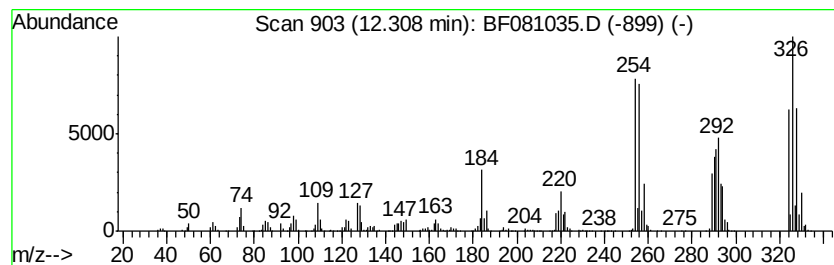
Instrument :
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ClientSampleId :
P001-DS01-0012-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 7 1,1'-Biphenyl, 2,2',3,3',4-... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.31	140.23 ng	16843900	Phenanthrene-d10	11.13	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2,2',3,3',4-penta...	324	C12H5Cl5	052663-62-4	99
2	1,1'-Biphenyl, 2,2',3,4,5'-penta...	324	C12H5Cl5	038380-02-8	99
3	1,1'-Biphenyl, 2,2',3,5',6-penta...	324	C12H5Cl5	038379-99-6	99
4	1,1'-Biphenyl, 2,2',4,4',5-penta...	324	C12H5Cl5	038380-01-7	99
5	1,1'-Biphenyl, 2,2',3',4,5-Penta...	324	C12H5Cl5	041464-51-1	99



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081035.D
Acq On : 18 Aug 2015 7:56
Operator : UM/IZ
Sample : G3310-01
Misc :
ALS Vial : 33 Sample Multiplier: 1

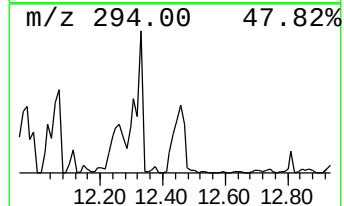
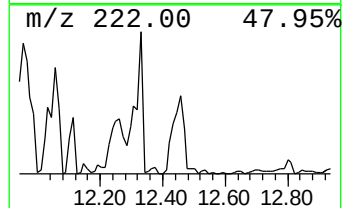
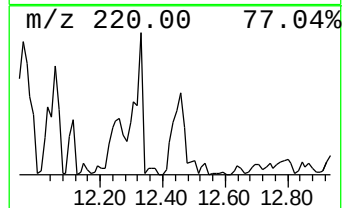
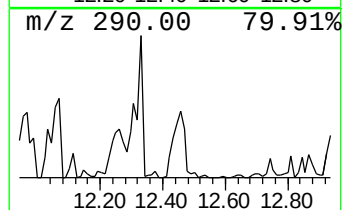
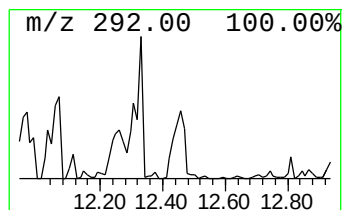
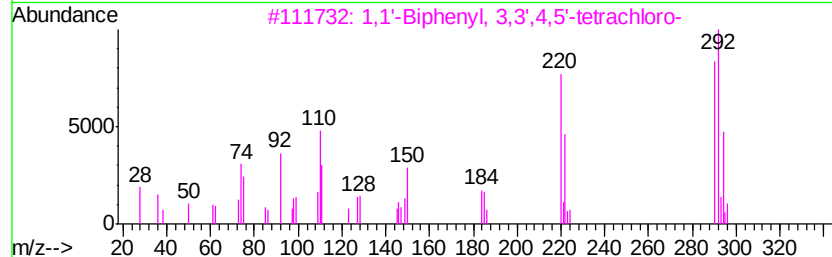
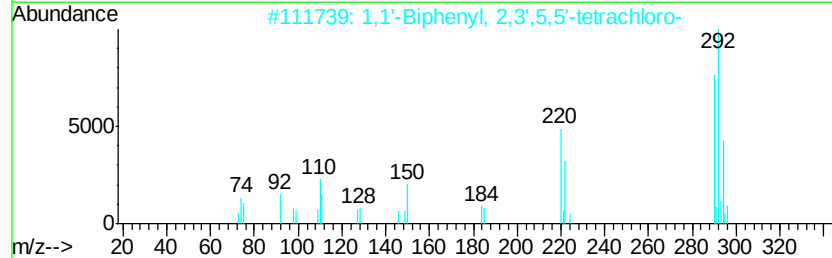
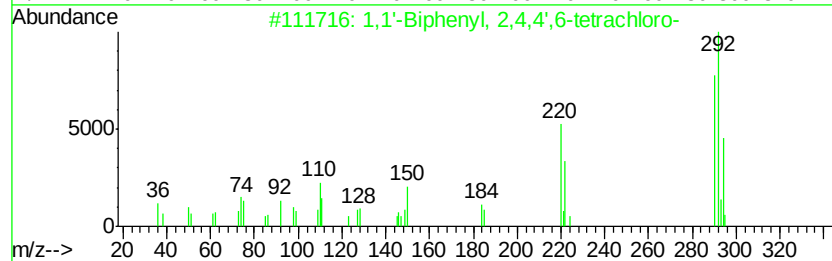
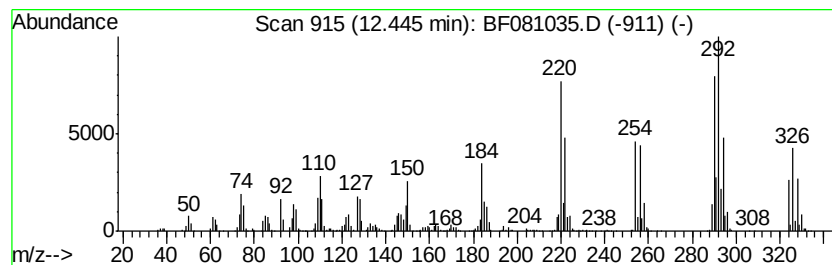
Instrument :
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 8 1,1'-Biphenyl, 2,4,4',6-tet... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.44	81.93 ng	9841130	Phenanthrene-d10	11.13	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2,4,4',6-tetrachl...	290	C12H6Cl4	032598-12-2	99
2	1,1'-Biphenyl, 2,3',5,5'-tetrach...	290	C12H6Cl4	041464-42-0	99
3	1,1'-Biphenyl, 3,3',4,5'-tetrach...	290	C12H6Cl4	041464-48-6	99
4	1,1'-Biphenyl, 3,3',4,4'-tetrach...	290	C12H6Cl4	032598-13-3	99
5	1,1'-Biphenyl, 2,2',3,4-tetrachl...	290	C12H6Cl4	052663-59-9	98



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
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Acq On : 18 Aug 2015 7:56
Operator : UM/IZ
Sample : G3310-01
Misc :
ALS Vial : 33 Sample Multiplier: 1

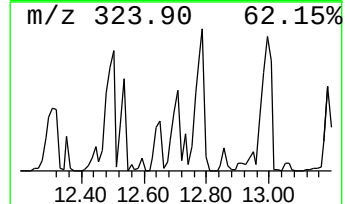
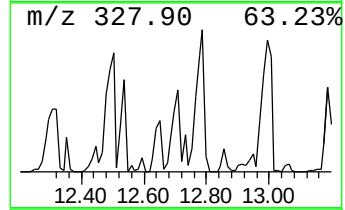
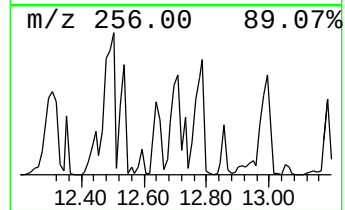
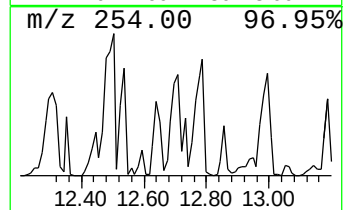
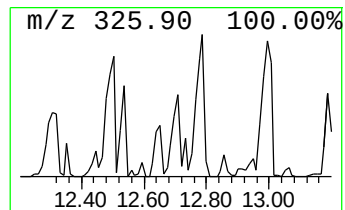
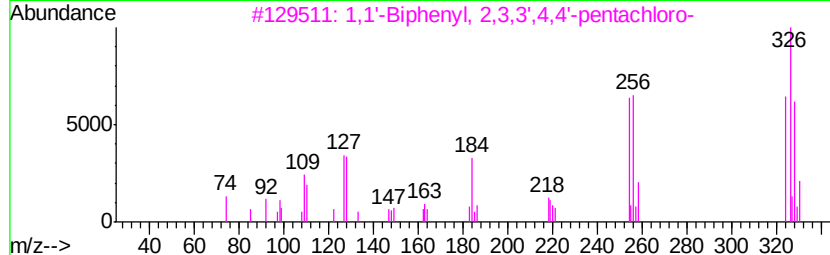
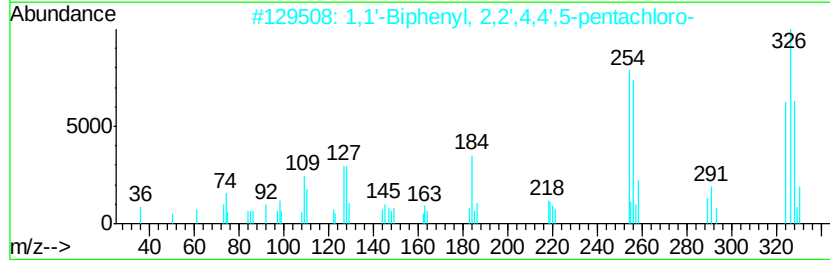
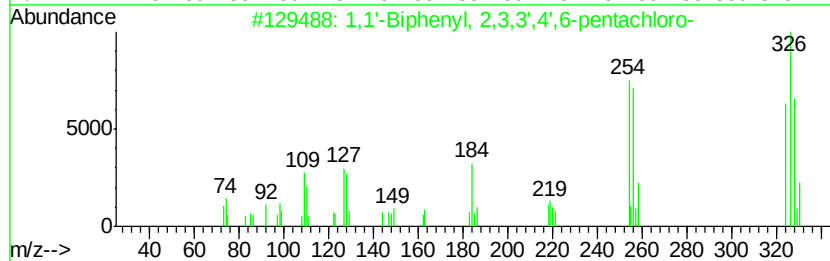
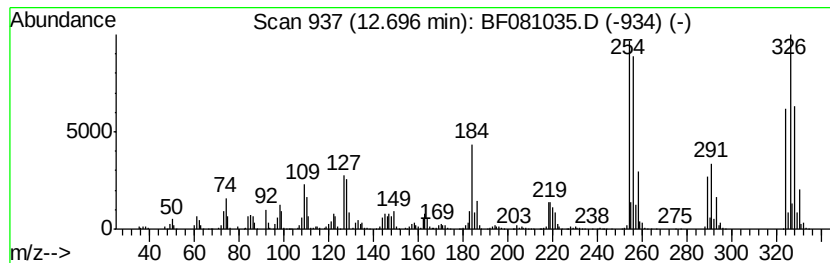
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 1,1'-Biphenyl, 2,3,3',4',6-... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.		
12.70	304.44 ng	6917590	Chrysene-d12	13.77		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'	-Biphenyl, 2,3,3',4',6-penta...	324	C12H5Cl5	038380-03-9	99
2	1,1'	-Biphenyl, 2,2',4,4',5-penta...	324	C12H5Cl5	038380-01-7	99
3	1,1'	-Biphenyl, 2,3,3',4,4'-penta...	324	C12H5Cl5	032598-14-4	99
4	1,1'	-Biphenyl, 2,2',3',4,5-Penta...	324	C12H5Cl5	041464-51-1	99
5	1,1'	-Biphenyl, 2,2',3,4,5'-penta...	324	C12H5Cl5	038380-02-8	99



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
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Acq On : 18 Aug 2015 7:56
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Sample : G3310-01
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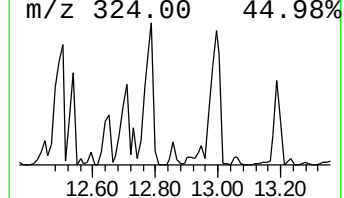
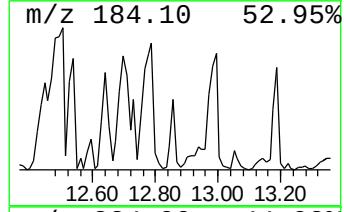
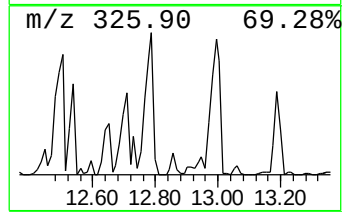
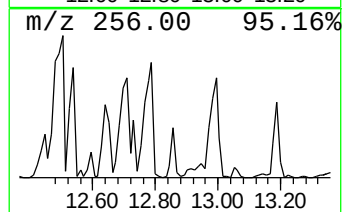
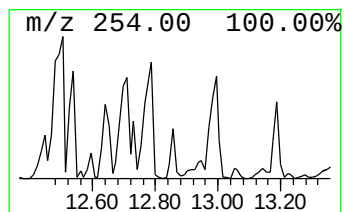
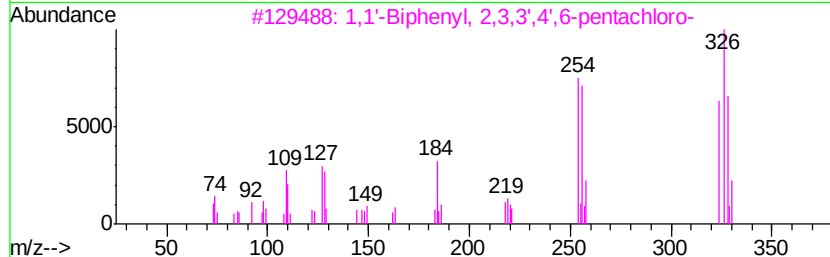
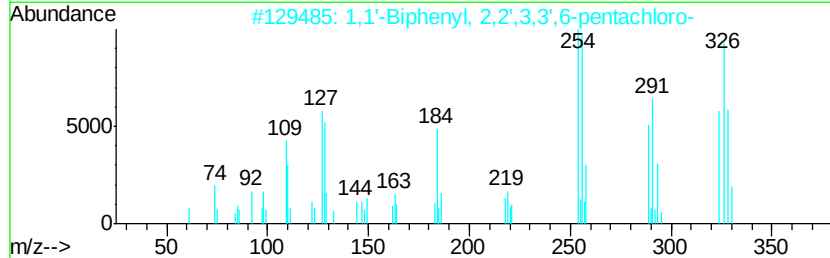
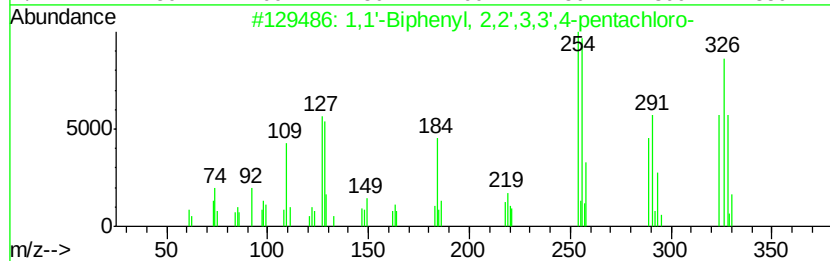
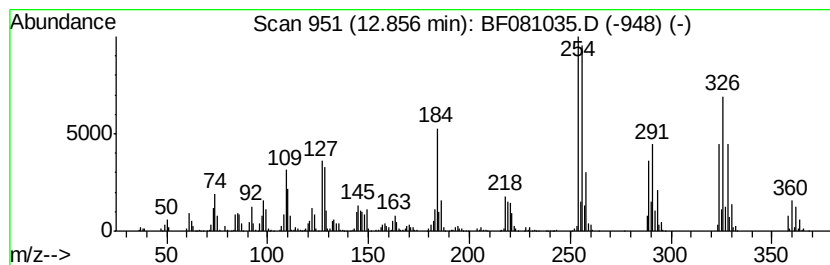
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 10 1,1'-Biphenyl, 2,2',3,3',6-... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.86	207.57 ng	4716430	Chrysene-d12	13.77
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	1,1'-Biphenyl, 2,2',3,3',4-penta...	324 C12H5Cl5	052663-62-4	99
2	1,1'-Biphenyl, 2,2',3,3',6-penta...	324 C12H5Cl5	052663-60-2	99
3	1,1'-Biphenyl, 2,3,3',4',6-penta...	324 C12H5Cl5	038380-03-9	99
4	1,1'-Biphenyl, 2,2',4,5,5'-penta...	324 C12H5Cl5	037680-73-2	99
5	(2,3,4,5-Tetrachloro-2,4-cyclope...	324 C12H5Cl5	029887-33-0	99



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081035.D
Acq On : 18 Aug 2015 7:56
Operator : UM/IZ
Sample : G3310-01
Misc :
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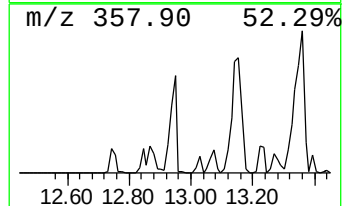
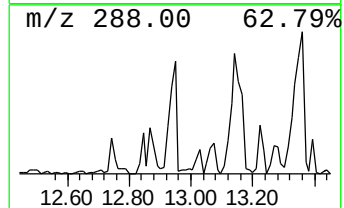
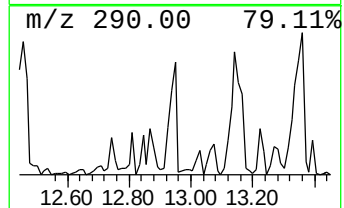
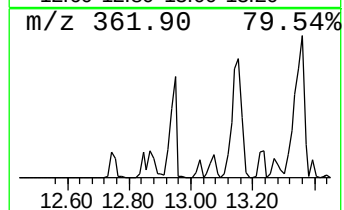
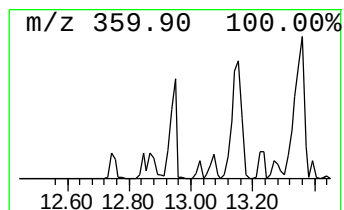
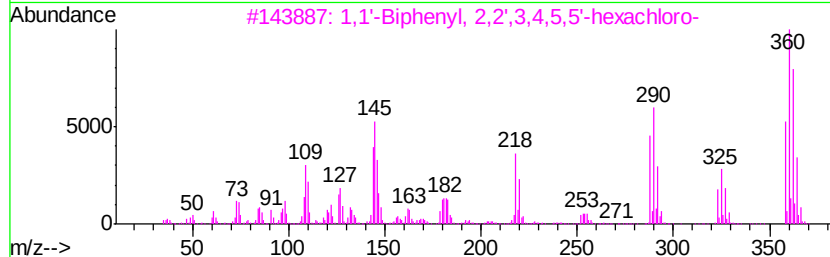
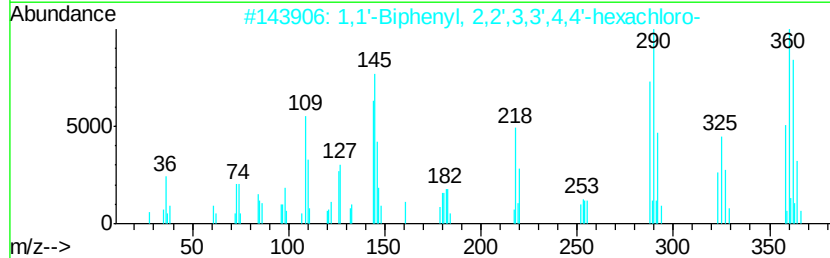
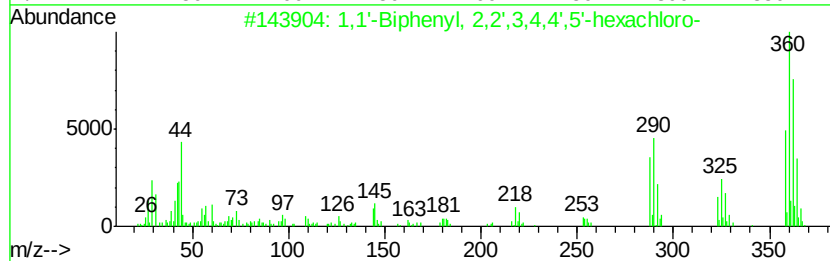
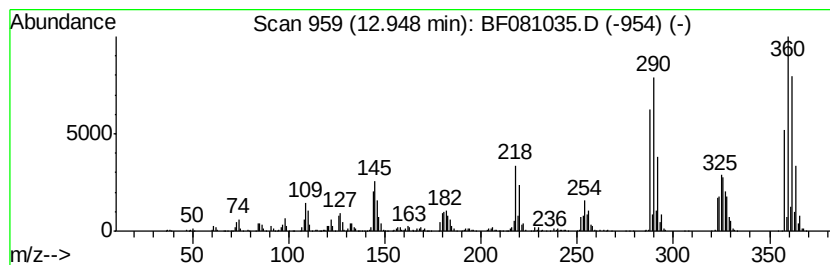
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 11 1,1'-Biphenyl, 2,2',3,4,4',... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	291.14 ng	6615340	Chrysene-d12	13.77

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1,1'-Biphenyl, 2,2',3,4,4',5'-he...	358	C12H4Cl6	035065-28-2	99
2		1,1'-Biphenyl, 2,2',3,3',4,4'-he...	358	C12H4Cl6	038380-07-3	99
3		1,1'-Biphenyl, 2,2',3,4,5,5'-hex...	358	C12H4Cl6	052712-04-6	99
4		1,1'-Biphenyl, 2,2',3,4,5,6'-Hex...	358	C12H4Cl6	068194-15-0	99
5		1,1'-Biphenyl, 2,2',3,3',6,6'-he...	358	C12H4Cl6	038411-22-2	99



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081035.D
Acq On : 18 Aug 2015 7:56
Operator : UM/IZ
Sample : G3310-01
Misc :
ALS Vial : 33 Sample Multiplier: 1

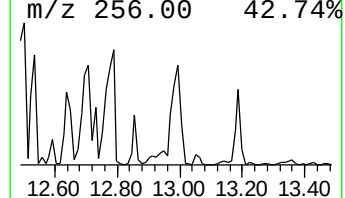
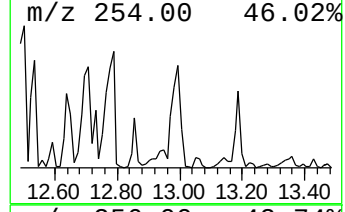
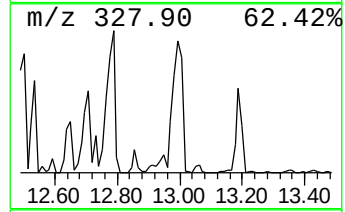
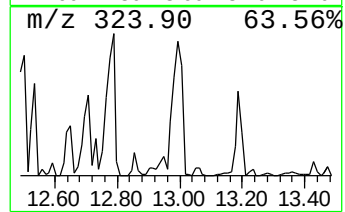
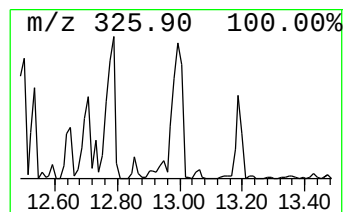
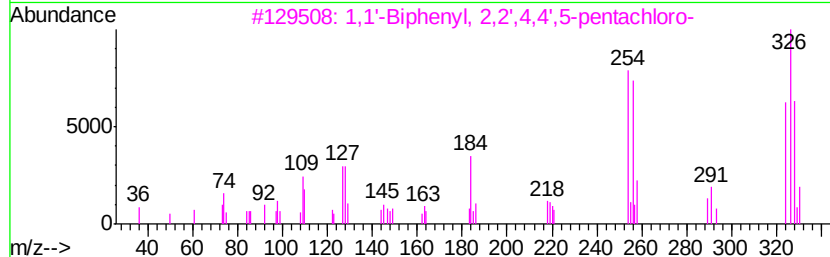
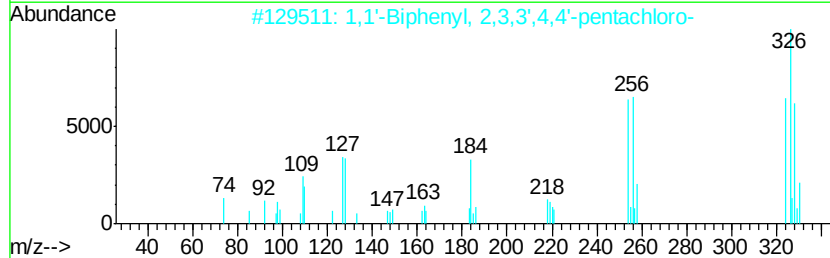
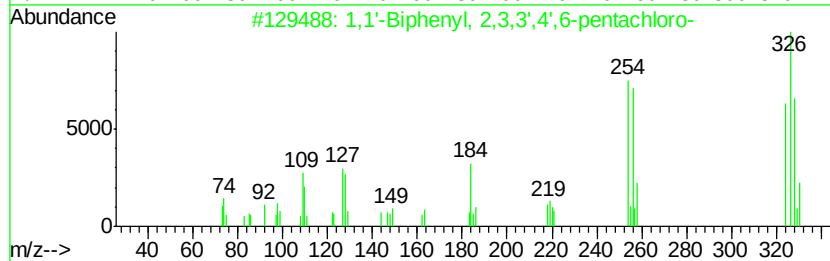
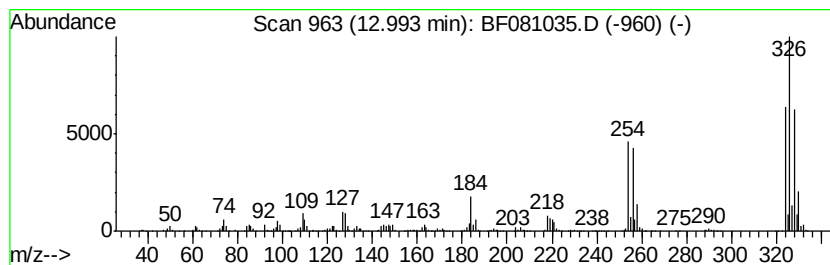
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 12 1,1'-Biphenyl, 2,3,3',4,4'-... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.		
12.99	399.60 ng	9079840	Chrysene-d12	13.77		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl,	2,3,3',4',6-penta...	324	C12H5Cl5	038380-03-9	99
2	1,1'-Biphenyl,	2,3,3',4,4'-penta...	324	C12H5Cl5	032598-14-4	99
3	1,1'-Biphenyl,	2,2',4,4',5-penta...	324	C12H5Cl5	038380-01-7	98
4	1,1'-Biphenyl,	2,3',4,4',5-penta...	324	C12H5Cl5	031508-00-6	98
5	1,1'-Biphenyl,	2,2',3,5,5'-penta...	324	C12H5Cl5	052663-61-3	96



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081035.D
Acq On : 18 Aug 2015 7:56
Operator : UM/IZ
Sample : G3310-01
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-DS01-0012-01

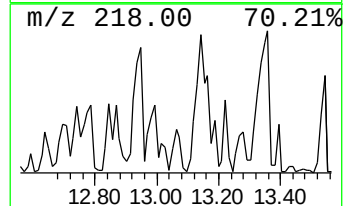
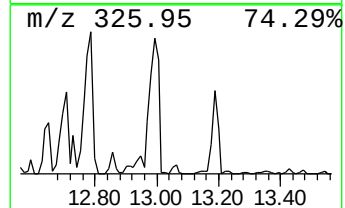
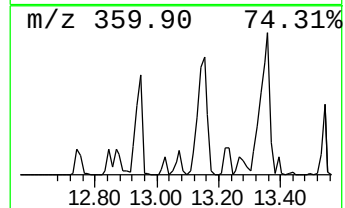
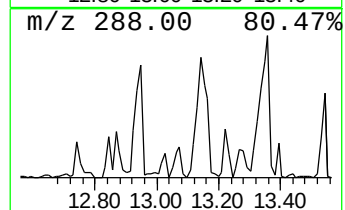
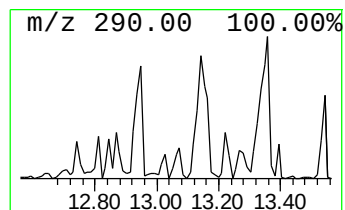
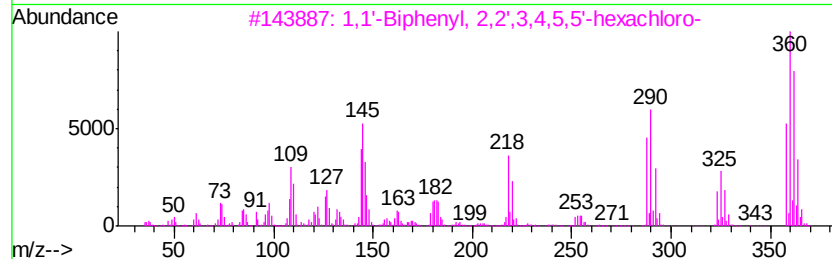
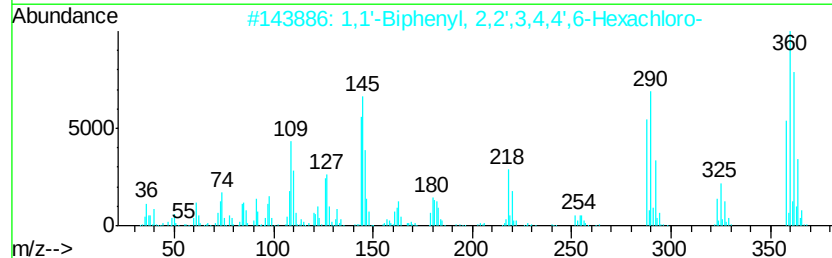
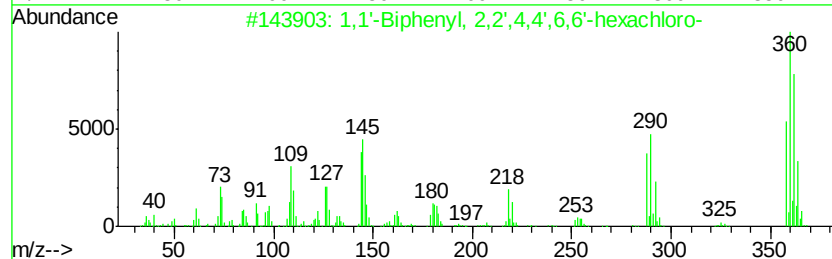
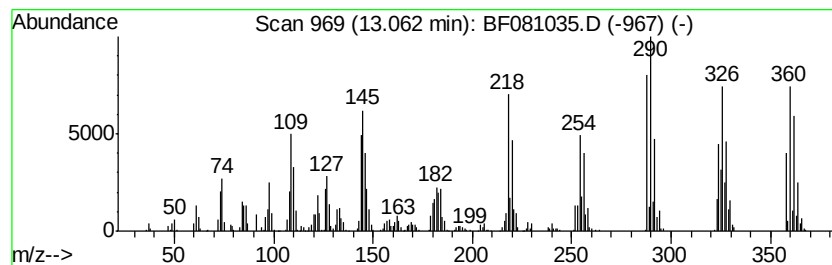
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 13 1,1'-Biphenyl, 2,2',4,4',6,... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.06	83.29 ng	1892660	Chrysene-d12	13.77

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1,1'-Biphenyl, 2,2',4,4',6,6'-he...	358	C12H4Cl6	033979-03-2	99
2		1,1'-Biphenyl, 2,2',3,4,4',6-Hex...	358	C12H4Cl6	056030-56-9	99
3		1,1'-Biphenyl, 2,2',3,4,5,5'-hex...	358	C12H4Cl6	052712-04-6	99
4		1,1'-Biphenyl, 2,3,3',4,4',5-hex...	358	C12H4Cl6	038380-08-4	99
5		1,1'-Biphenyl, 3,3',4,4',5,5'-he...	358	C12H4Cl6	032774-16-6	99



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081035.D
Acq On : 18 Aug 2015 7:56
Operator : UM/IZ
Sample : G3310-01
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-DS01-0012-01

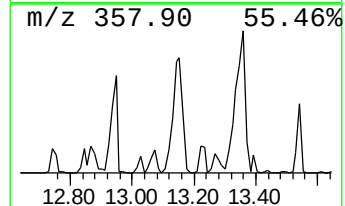
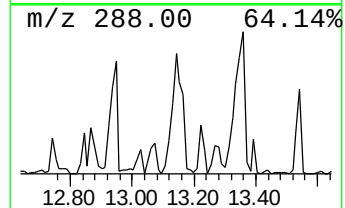
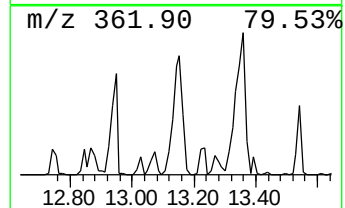
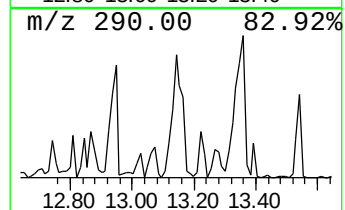
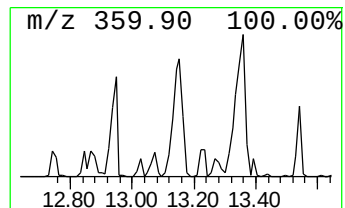
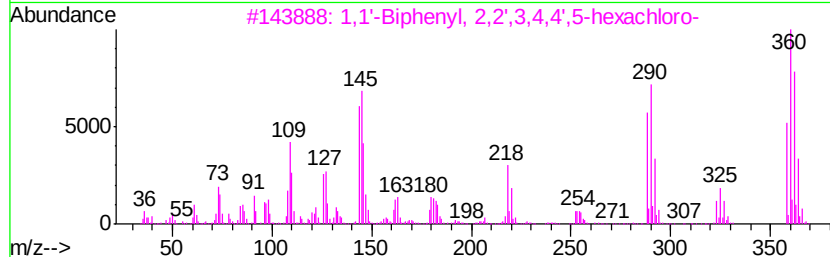
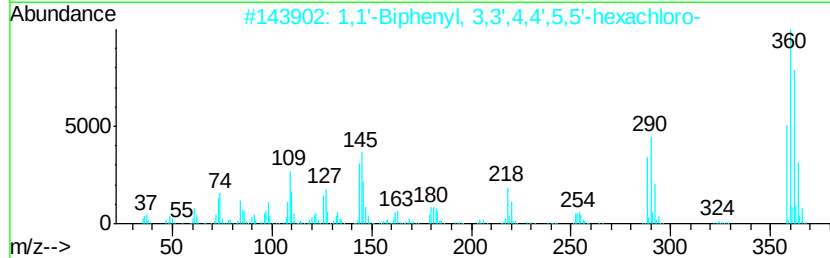
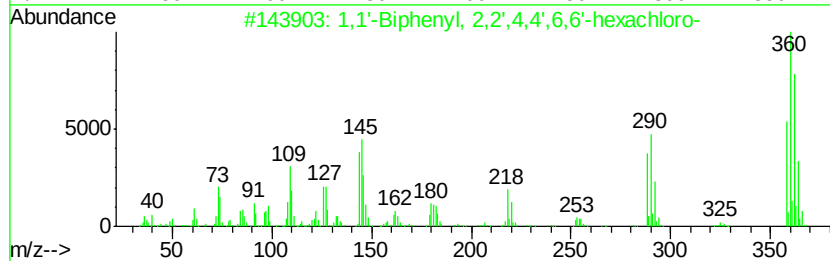
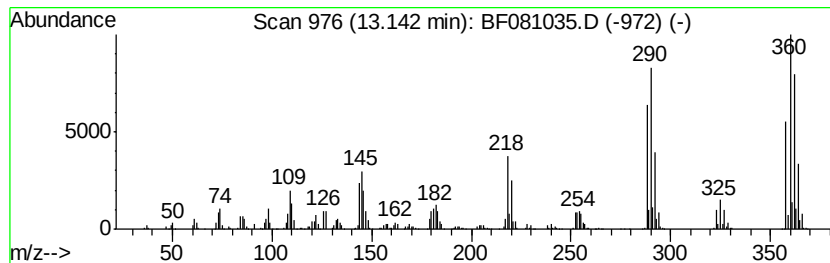
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 14 1,1'-Biphenyl, 3,3',4,4',5,... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.14	429.07 ng	9749630	Chrysene-d12	13.77

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1,1'-Biphenyl, 2,2',4,4',6,6'-he...	358	C12H4Cl6	033979-03-2	99
2		1,1'-Biphenyl, 3,3',4,4',5,5'-he...	358	C12H4Cl6	032774-16-6	99
3		1,1'-Biphenyl, 2,2',3,4,4',5-hex...	358	C12H4Cl6	035694-06-5	99
4		1,1'-Biphenyl, 2,3,3',4,4',5-hex...	358	C12H4Cl6	038380-08-4	99
5		1,1'-Biphenyl, 2,2',3,3',6,6'-he...	358	C12H4Cl6	038411-22-2	99



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081035.D
Acq On : 18 Aug 2015 7:56
Operator : UM/IZ
Sample : G3310-01
Misc :
ALS Vial : 33 Sample Multiplier: 1

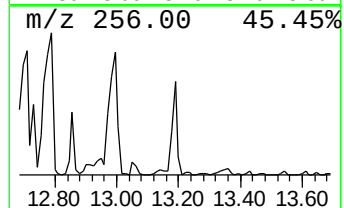
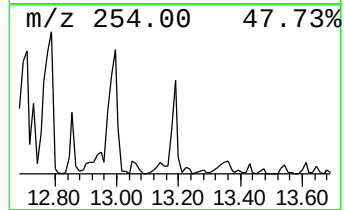
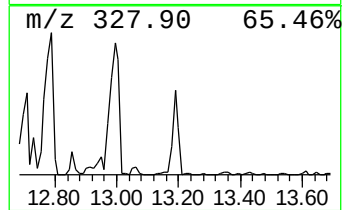
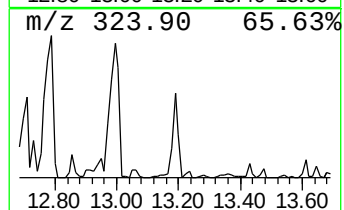
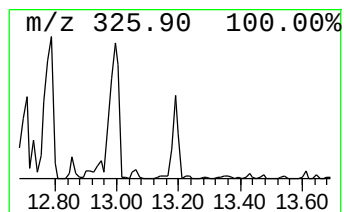
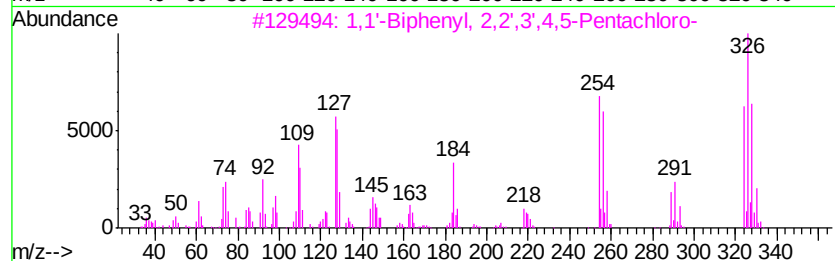
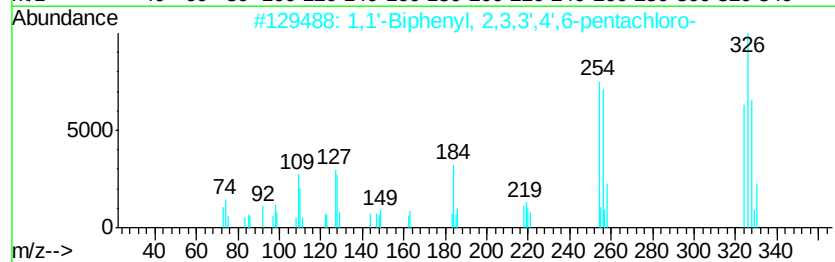
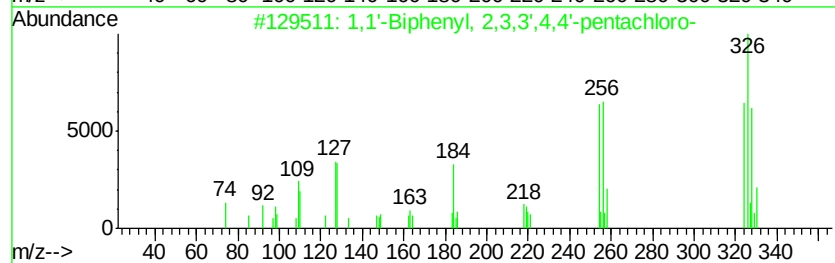
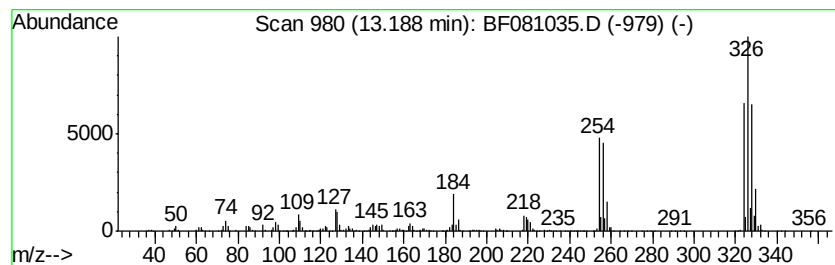
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 15 1,1'-Biphenyl, 2,2',3',4,5-... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.		
13.19	126.28 ng	2869470	Chrysene-d12	13.77		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl,	2,3,3',4,4'-penta...	324	C12H5Cl5	032598-14-4	99
2	1,1'-Biphenyl,	2,3,3',4',6-penta...	324	C12H5Cl5	038380-03-9	99
3	1,1'-Biphenyl,	2,2',3',4,5-Penta...	324	C12H5Cl5	041464-51-1	99
4	1,1'-Biphenyl,	2,2',4,5',6-Penta...	324	C12H5Cl5	060145-21-3	99
5	1,1'-Biphenyl,	2,2',4,4',5-penta...	324	C12H5Cl5	038380-01-7	98



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081035.D
Acq On : 18 Aug 2015 7:56
Operator : UM/IZ
Sample : G3310-01
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
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ClientSampleId :
P001-DS01-0012-01

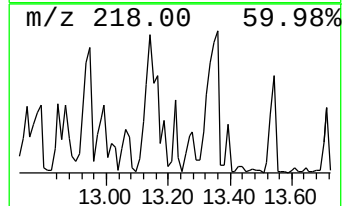
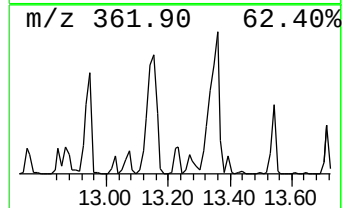
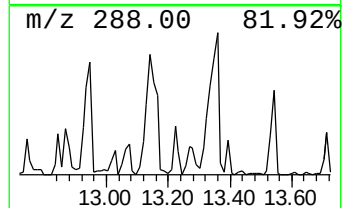
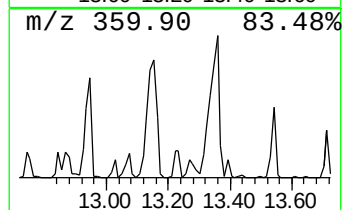
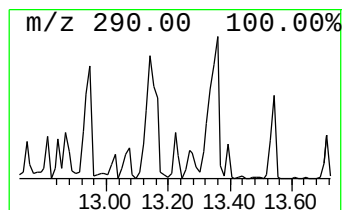
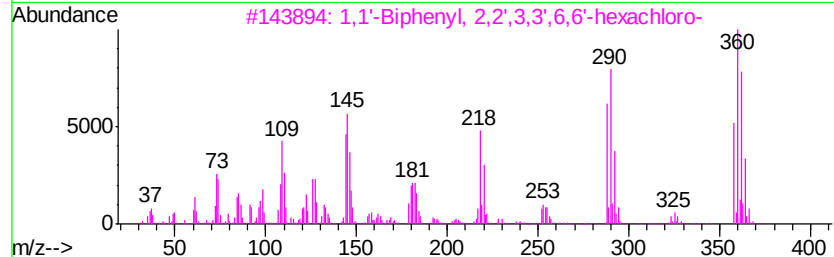
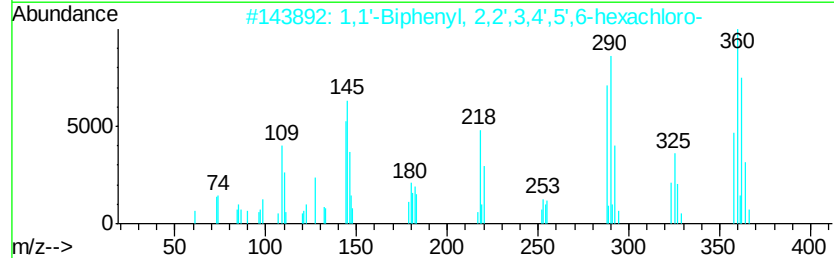
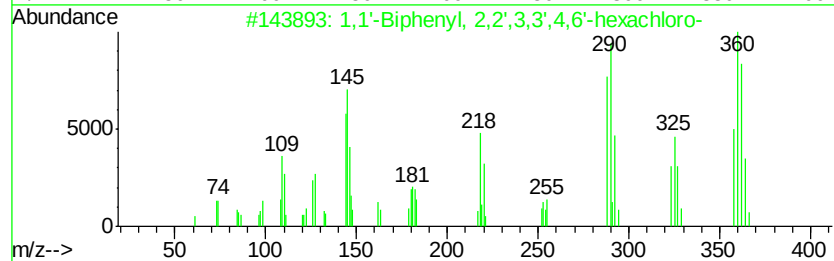
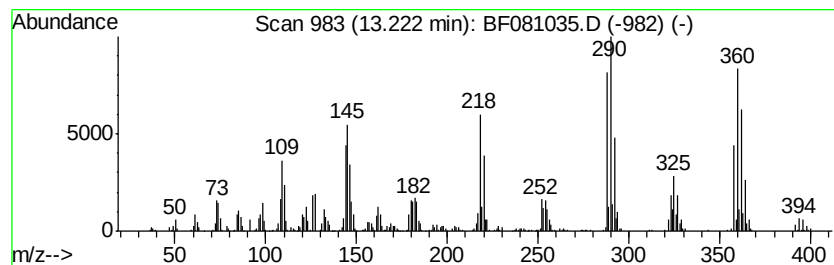
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 16 1,1'-Biphenyl, 2,2',3,3',4,... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.22	70.57 ng	1603560	Chrysene-d12	13.77

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1,1'-Biphenyl, 2,2',3,3',4,6'-he...	358	C12H4Cl6	038380-05-1	99
2		1,1'-Biphenyl, 2,2',3,4',5',6-he...	358	C12H4Cl6	038380-04-0	99
3		1,1'-Biphenyl, 2,2',3,3',6,6'-he...	358	C12H4Cl6	038411-22-2	99
4		1,1'-Biphenyl, 2,2',3,4',5,5'-he...	358	C12H4Cl6	051908-16-8	99
5		1,1'-Biphenyl, 2,2',3,3',4,4'-he...	358	C12H4Cl6	038380-07-3	99



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081035.D
Acq On : 18 Aug 2015 7:56
Operator : UM/IZ
Sample : G3310-01
Misc :
ALS Vial : 33 Sample Multiplier: 1

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ClientSampleId :
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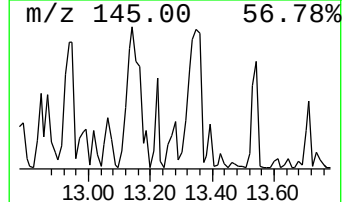
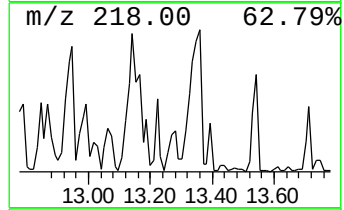
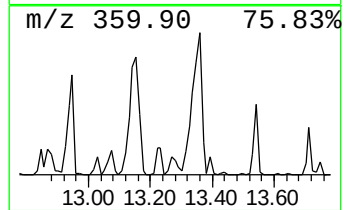
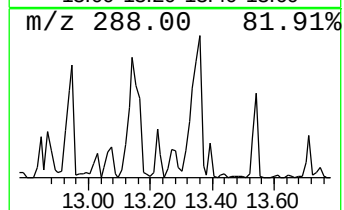
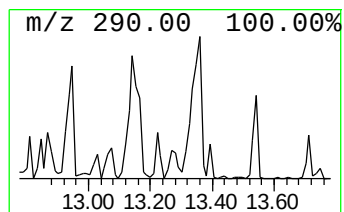
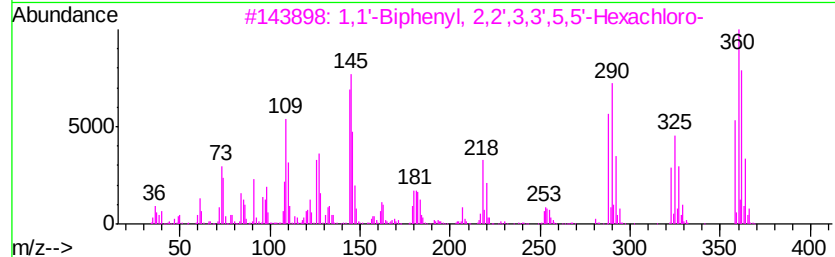
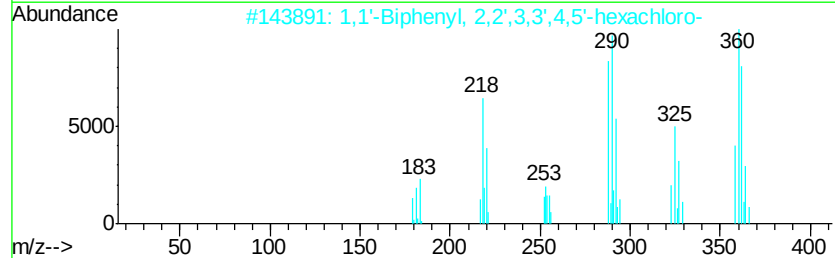
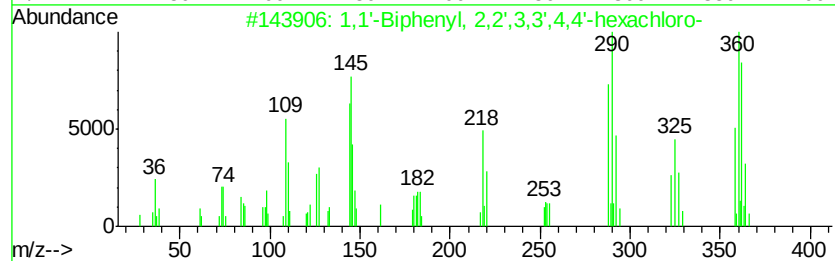
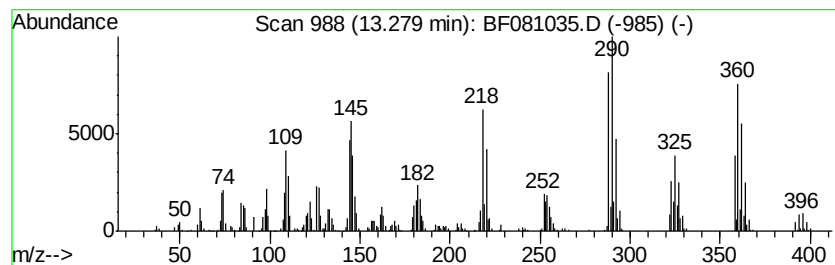
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 17 1,1'-Biphenyl, 2,2',3,3',4,... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.28	76.50 ng	1738280	Chrysene-d12	13.77

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1,1'-Biphenyl, 2,2',3,3',4,4'-he...	358	C12H4Cl6	038380-07-3	99
2		1,1'-Biphenyl, 2,2',3,3',4,5'-he...	358	C12H4Cl6	052663-66-8	99
3		1,1'-Biphenyl, 2,2',3,3',5,5'-He...	358	C12H4Cl6	035694-04-3	99
4		1,1'-Biphenyl, 2,2',3,3',4,6'-he...	358	C12H4Cl6	038380-05-1	99
5		1,1'-Biphenyl, 2,2',3,3',4,5-hex...	358	C12H4Cl6	055215-18-4	99



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081035.D
Acq On : 18 Aug 2015 7:56
Operator : UM/IZ
Sample : G3310-01
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
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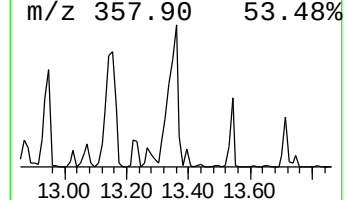
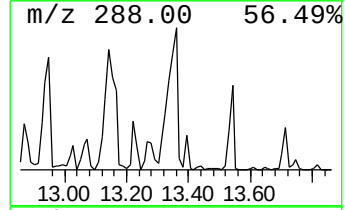
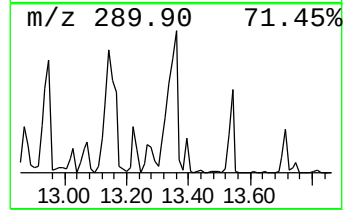
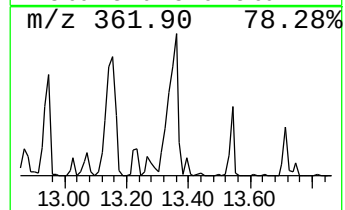
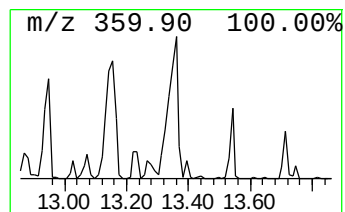
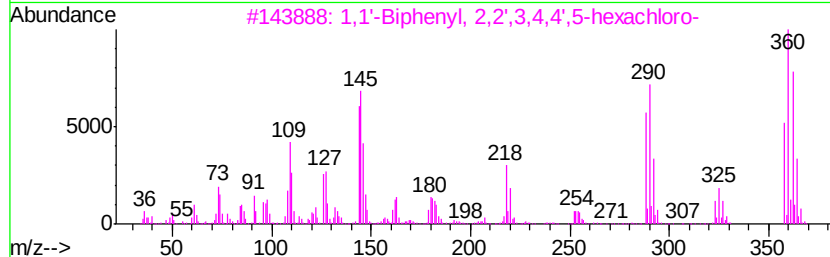
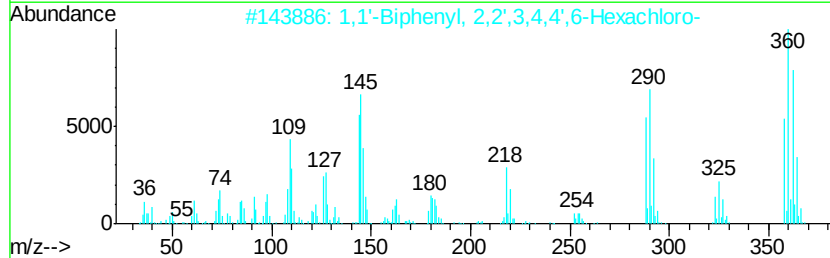
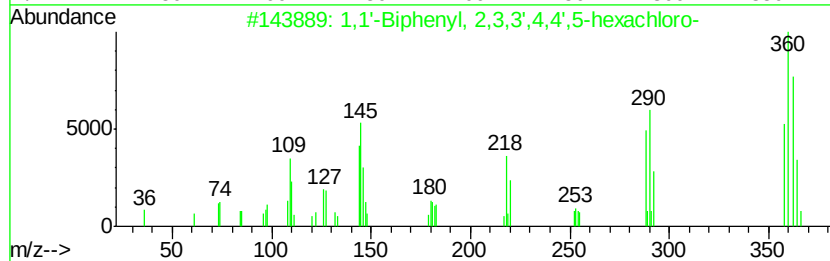
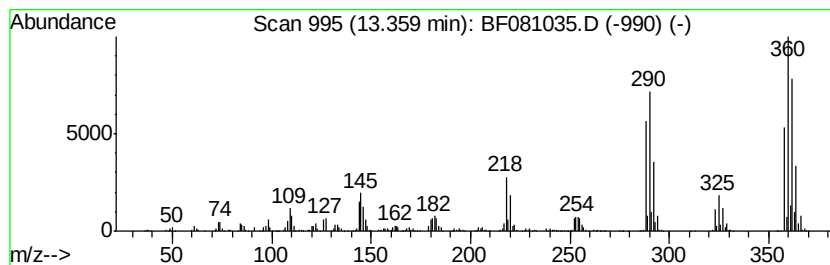
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 18 1,1'-Biphenyl, 2,3,3',4,4',... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.36	400.40 ng	9098190	Chrysene-d12	13.77

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1,1'-Biphenyl, 2,3,3',4,4',5-hex...	358	C12H4Cl6	038380-08-4	99
2		1,1'-Biphenyl, 2,2',3,4,4',6-Hex...	358	C12H4Cl6	056030-56-9	99
3		1,1'-Biphenyl, 2,2',3,4,4',5-hex...	358	C12H4Cl6	035694-06-5	99
4		1,1'-Biphenyl, 3,3',4,4',5,5'-he...	358	C12H4Cl6	032774-16-6	99
5		1,1'-Biphenyl, 2,2',4,4',6,6'-he...	358	C12H4Cl6	033979-03-2	98



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081035.D
Acq On : 18 Aug 2015 7:56
Operator : UM/IZ
Sample : G3310-01
Misc :
ALS Vial : 33 Sample Multiplier: 1

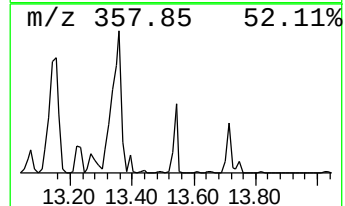
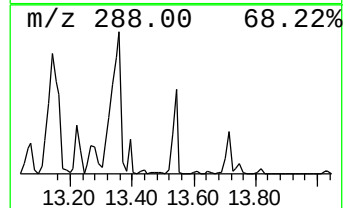
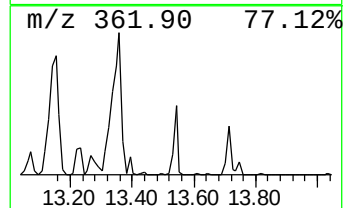
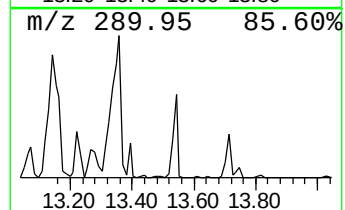
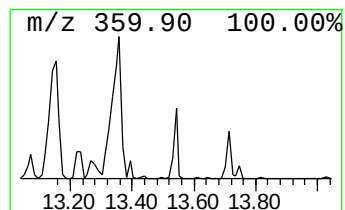
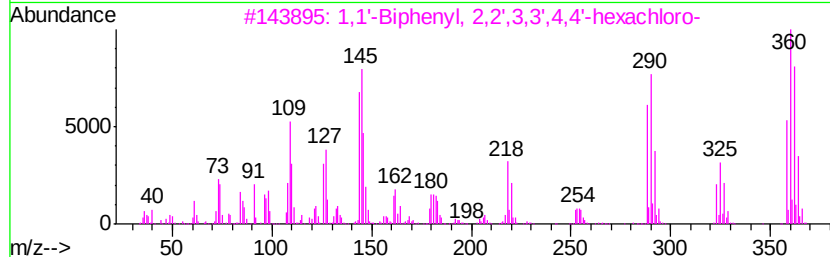
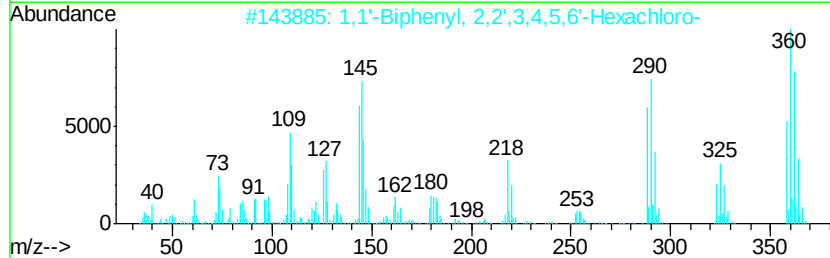
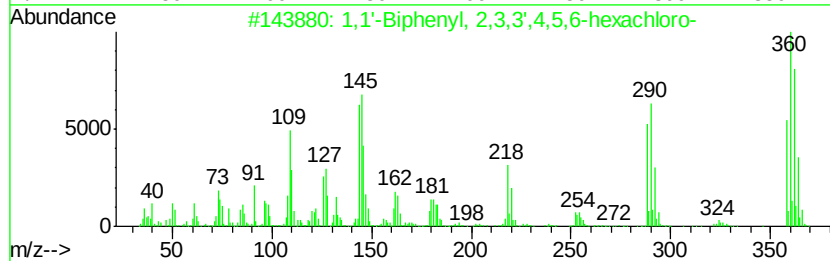
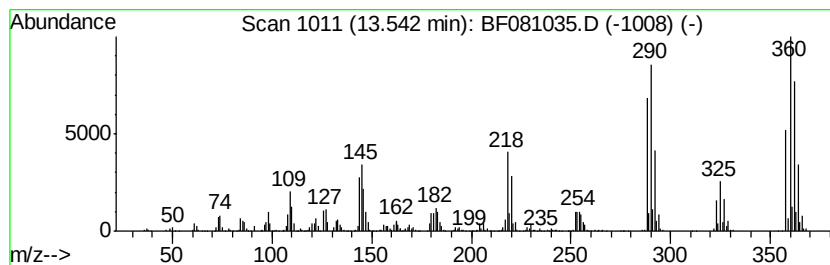
Instrument :
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ClientSampleId :
P001-DS01-0012-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 19 1,1'-Biphenyl, 2,3,3',4,5,6... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.		
13.54	130.45 ng	2964100	Chrysene-d12	13.77		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl,	2,3,3',4,5,6-hexa...	358	C12H4Cl6	041411-62-5	99
2	1,1'-Biphenyl,	2,2',3,4,5,6'-Hex...	358	C12H4Cl6	068194-15-0	99
3	1,1'-Biphenyl,	2,2',3,3',4,4'-he...	358	C12H4Cl6	038380-07-3	99
4	1,1'-Biphenyl,	2,2',4,4',6,6'-he...	358	C12H4Cl6	033979-03-2	99
5	1,1'-Biphenyl,	2,3,3',4,4',5-hex...	358	C12H4Cl6	038380-08-4	99



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081035.D
Acq On : 18 Aug 2015 7:56
Operator : UM/IZ
Sample : G3310-01
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-DS01-0012-01

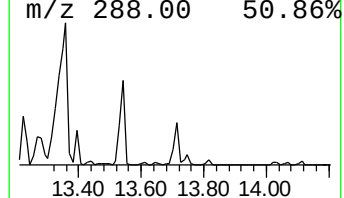
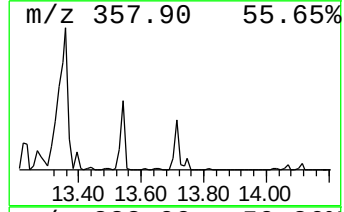
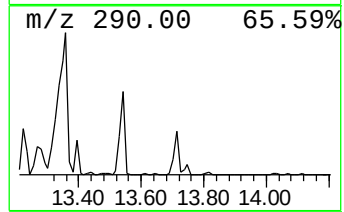
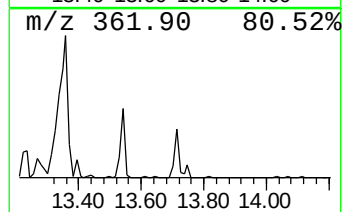
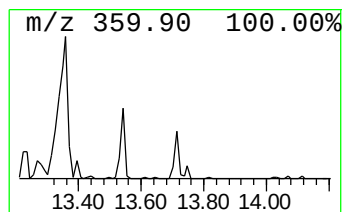
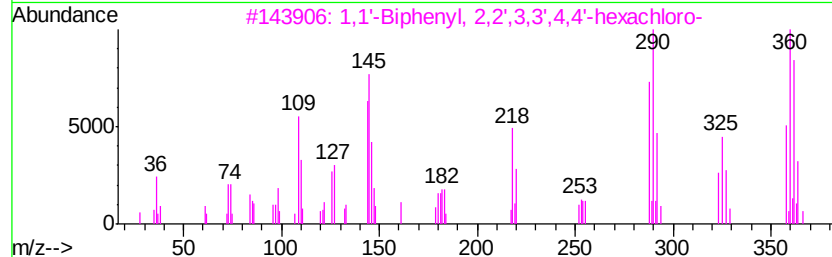
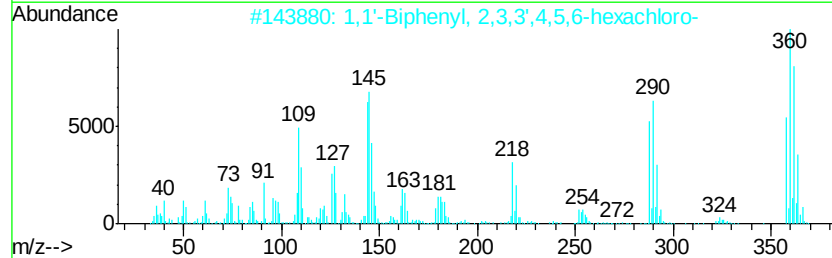
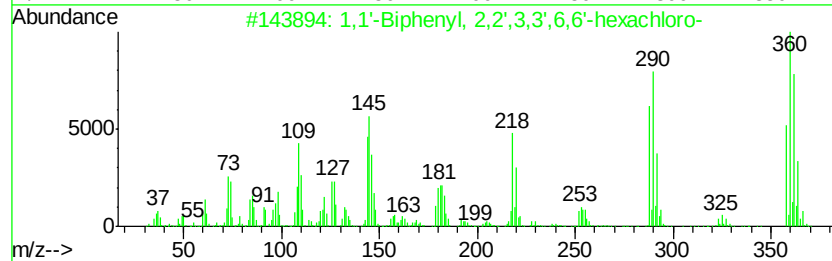
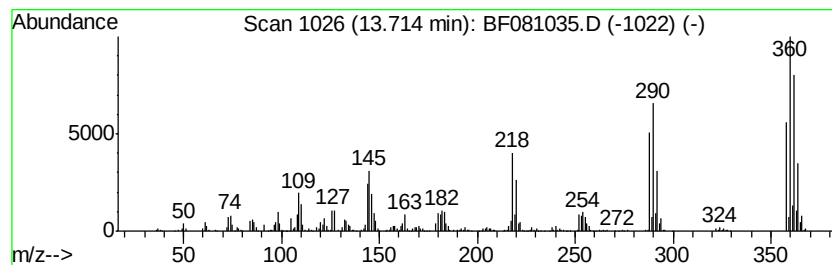
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 20 1,1'-Biphenyl, 2,2',3,3',6,... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.71	77.61 ng	1763490	Chrysene-d12	13.77

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1,1'-Biphenyl, 2,2',3,3',6,6'-he...	358	C12H4Cl6	038411-22-2	99
2		1,1'-Biphenyl, 2,3,3',4,5,6-hexa...	358	C12H4Cl6	041411-62-5	99
3		1,1'-Biphenyl, 2,2',3,3',4,4'-he...	358	C12H4Cl6	038380-07-3	99
4		1,1'-Biphenyl, 3,3',4,4',5,5'-he...	358	C12H4Cl6	032774-16-6	99
5		1,1'-Biphenyl, 2,2',4,4',6,6'-he...	358	C12H4Cl6	033979-03-2	99



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
 Data File : BF081035.D
 Acq On : 18 Aug 2015 7:56
 Operator : UM/IZ
 Sample : G3310-01
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 P001-DS01-0012-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
 TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown6.40	6.40	86.0	ng	1691680	1	6.63	393298	20.0
1,1'-Biphenyl, 2,...	11.52	86.4	ng	10378200	4	11.13	2402320	20.0
1,1'-Biphenyl, 2,...	11.66	67.2	ng	8071850	4	11.13	2402320	20.0
1,1'-Biphenyl, 2,...	11.79	73.6	ng	8845710	4	11.13	2402320	20.0
1,1'-Biphenyl, 2,...	11.83	66.2	ng	7953060	4	11.13	2402320	20.0
1,1'-Biphenyl, 2,...	11.95	90.6	ng	10882000	4	11.13	2402320	20.0
1,1'-Biphenyl, 2,...	12.31	140.2	ng	16843900	4	11.13	2402320	20.0
1,1'-Biphenyl, 2,...	12.44	81.9	ng	9841130	4	11.13	2402320	20.0
1,1'-Biphenyl, 2,...	12.70	304.4	ng	6917590	5	13.77	454450	20.0
1,1'-Biphenyl, 2,...	12.86	207.6	ng	4716430	5	13.77	454450	20.0
1,1'-Biphenyl, 2,...	12.95	291.1	ng	6615340	5	13.77	454450	20.0
1,1'-Biphenyl, 2,...	12.99	399.6	ng	9079840	5	13.77	454450	20.0
1,1'-Biphenyl, 2,...	13.06	83.3	ng	1892660	5	13.77	454450	20.0
1,1'-Biphenyl, 3,...	13.14	429.1	ng	9749630	5	13.77	454450	20.0
1,1'-Biphenyl, 2,...	13.19	126.3	ng	2869470	5	13.77	454450	20.0
1,1'-Biphenyl, 2,...	13.22	70.6	ng	1603560	5	13.77	454450	20.0
1,1'-Biphenyl, 2,...	13.28	76.5	ng	1738280	5	13.77	454450	20.0
1,1'-Biphenyl, 2,...	13.36	400.4	ng	9098190	5	13.77	454450	20.0
1,1'-Biphenyl, 2,...	13.54	130.4	ng	2964100	5	13.77	454450	20.0
1,1'-Biphenyl, 2,...	13.71	77.6	ng	1763490	5	13.77	454450	20.0