

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\
 Data File : BF096855.D
 Acq On : 18 Jul 2017 19:09
 Operator : SJ/JU
 Sample : I4244-01 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PENNSYLVANIA-ANALYTICAL

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-BF071317.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	4.116	357	362	371	rBV	212786	329440	3.71%	0.415%
2	4.593	439	443	447	rBV	141374	158279	1.78%	0.199%
3	4.687	455	459	465	rVB	261097	344720	3.88%	0.434%
4	4.746	465	469	475	rBV	273080	346720	3.90%	0.437%
5	4.969	502	507	511	rBV2	324303	452638	5.09%	0.570%
6	5.069	520	524	526	rBV	349267	393967	4.43%	0.496%
7	5.093	526	528	534	rVB	428362	439478	4.95%	0.554%
8	5.146	534	537	539	rBV	113622	118176	1.33%	0.149%
9	5.175	539	542	543	rVV	550808	555643	6.25%	0.700%
10	5.193	543	545	553	rVB	871640	943584	10.62%	1.188%
11	5.257	553	556	563	rVB2	126904	187208	2.11%	0.236%
12	5.351	567	572	576	rBV2	426900	647270	7.29%	0.815%
13	5.393	576	579	581	rBV	287941	229644	2.58%	0.289%
14	5.422	581	584	594	rVB2	514477	1053284	11.86%	1.327%
15	5.510	594	599	610	rBV	2579632	3300948	37.16%	4.157%
16	5.610	610	616	620	rBV2	549553	668189	7.52%	0.842%
17	5.675	620	627	635	rBV3	266853	716240	8.06%	0.902%
18	5.751	635	640	646	rBV3	800230	1191965	13.42%	1.501%
19	5.810	646	650	654	rBV3	333164	508874	5.73%	0.641%
20	5.857	654	658	664	rBV2	2045957	3524948	39.68%	4.440%
21	5.916	664	668	671	rBV2	824145	863700	9.72%	1.088%
22	6.051	685	691	696	rBV4	762333	1487805	16.75%	1.874%
23	6.098	696	699	700	rBV	341165	310963	3.50%	0.392%
24	6.122	700	703	706	rVV3	1549803	2410605	27.13%	3.036%
25	6.157	706	709	715	rVV2	1815069	3075862	34.62%	3.874%
26	6.210	715	718	722	rVV	2148838	2605237	29.32%	3.281%
27	6.245	722	724	728	rVV2	690354	832649	9.37%	1.049%
28	6.292	729	732	739	rVB	1436435	2154792	24.25%	2.714%
29	6.351	739	742	743	rBV2	823338	853214	9.60%	1.075%
30	6.375	743	746	750	rVB3	755461	1018760	11.47%	1.283%
31	6.434	754	756	757	rBV	227183	143642	1.62%	0.181%
32	6.469	757	762	770	rBV	4462733	8884212	100.00%	11.189%
33	6.610	783	786	789	rBV2	577414	663142	7.46%	0.835%
34	6.645	789	792	794	rBV2	2479287	2644370	29.76%	3.331%

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 Sampling : 1 Min Area: 3 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
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35	6.675	794	797	807	rVB3	1439377	3416668	38.46%	4.303%
36	6.775	810	814	823	rVB6	1249835	2809266	31.62%	3.538%
37	6.869	827	830	831	rBV3	465266	470665	5.30%	0.593%
38	6.898	831	835	839	rBV2	1434299	2773946	31.22%	3.494%
39	6.939	839	842	845	rBV2	1762066	2483258	27.95%	3.128%
40	7.016	852	855	865	rVB3	1740587	3383749	38.09%	4.262%
41	7.163	875	880	882	rBV2	1530924	2647961	29.81%	3.335%
42	7.245	889	894	897	rBV	2448351	4844525	54.53%	6.102%
43	12.986	1865	1870	1872	rVB	2188697	2803181	31.55%	3.531%
44	13.310	1920	1925	1928	rVB	2430570	2759794	31.06%	3.476%
45	13.621	1975	1978	1987	rVB	2386539	2887715	32.50%	3.637%
46	13.745	1996	1999	2004	rVB2	833108	1005162	11.31%	1.266%
47	13.927	2027	2030	2034	rVB	1334032	1299632	14.63%	1.637%
48	14.227	2078	2081	2084	rBV	753874	662956	7.46%	0.835%
49	14.521	2128	2131	2137	rVB	424289	495408	5.58%	0.624%
50	14.821	2179	2182	2187	rVB	223876	259002	2.92%	0.326%
51	15.110	2228	2231	2234	rVB	292790	334875	3.77%	0.422%

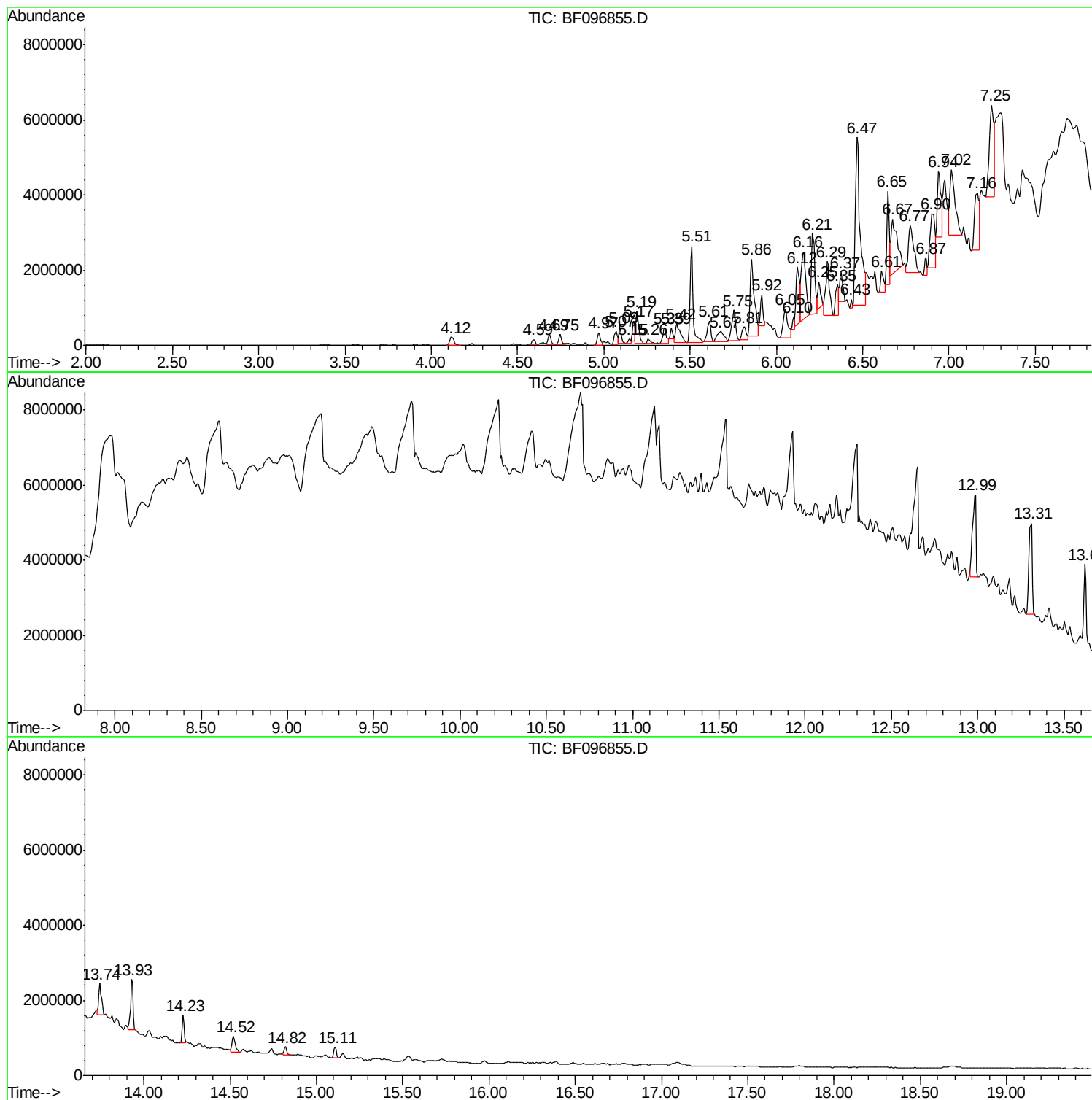
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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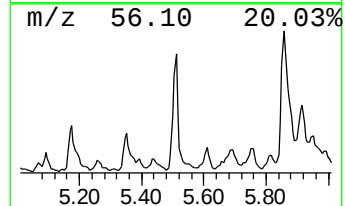
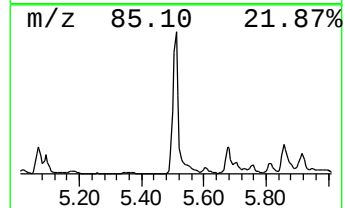
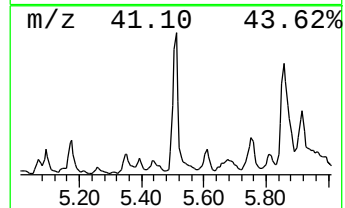
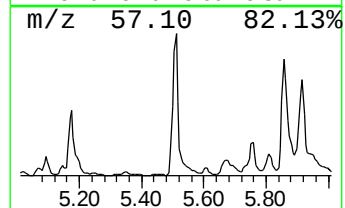
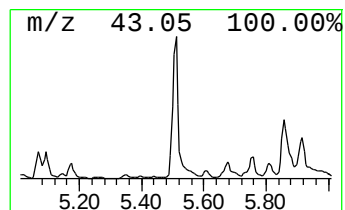
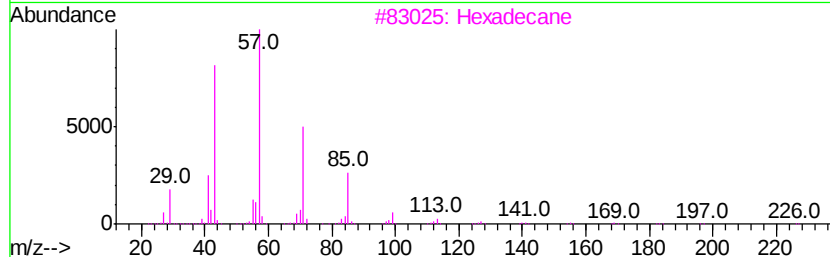
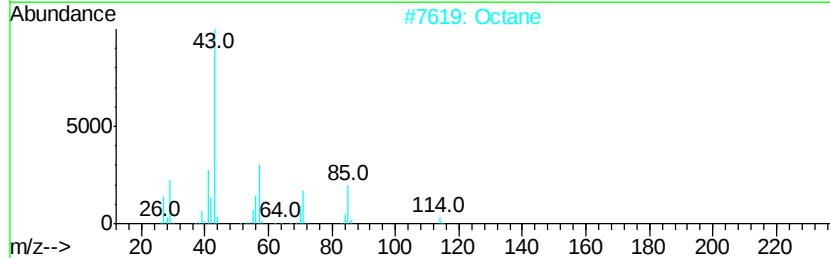
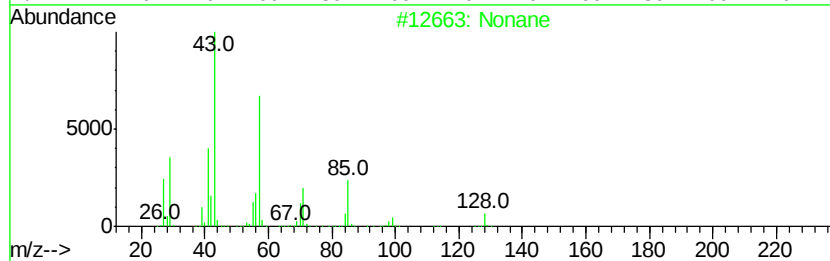
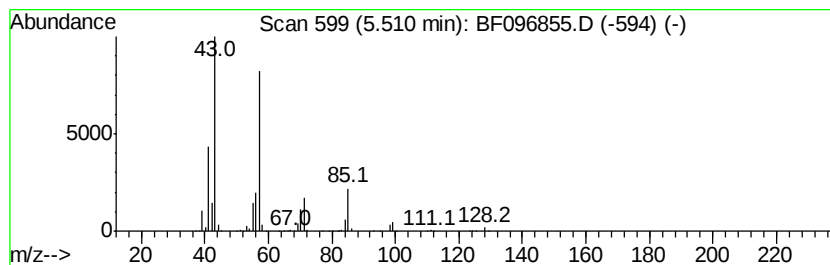
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 Nonane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.51	99.55 ng	3300950	1,4-Dichlorobenzene-d4	6.61

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Nonane	128	C9H20	000111-84-2	90
2		Octane	114	C8H18	000111-65-9	64
3		Hexadecane	226	C16H34	000544-76-3	53
4		Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	53
5		Heptane, 4-ethyl-	128	C9H20	002216-32-2	53



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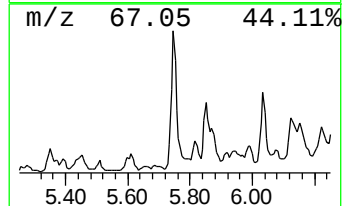
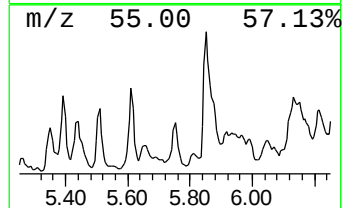
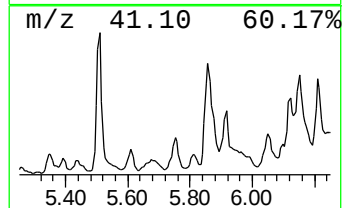
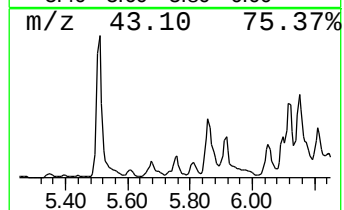
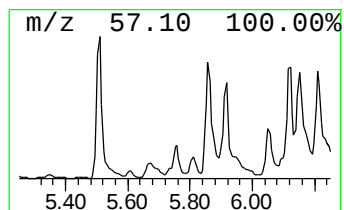
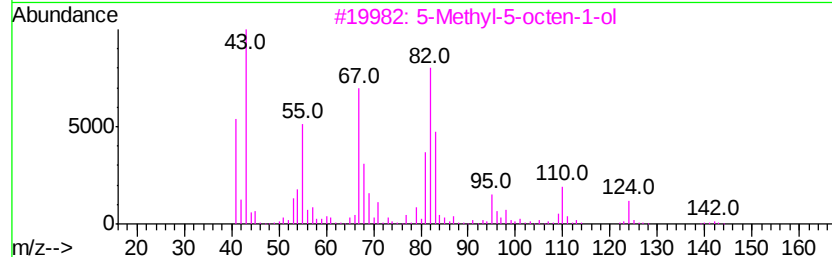
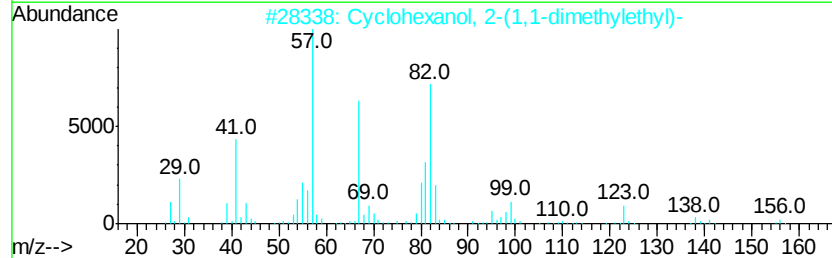
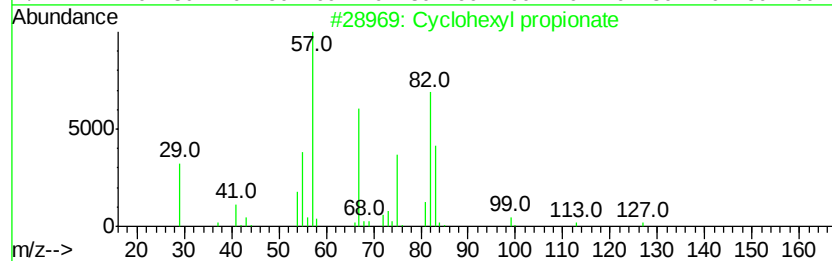
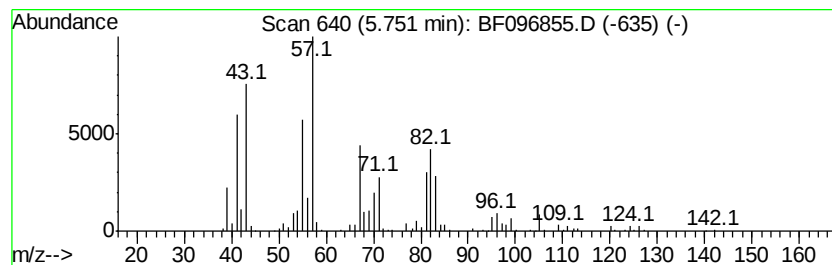
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Cyclohexyl propionate Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.75	35.95 ng	1191970	1,4-Dichlorobenzene-d4	6.61

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclohexyl propionate	156	C9H16O2	006222-35-1	53
2		Cyclohexanol, 2-(1,1-dimethylethyl)-	156	C10H20O	013491-79-7	50
3		5-Methyl-5-octen-1-ol	142	C9H18O	1000132-13-6	47
4		2-Hexen-1-ol, (Z)-	100	C6H12O	000928-94-9	43
5		Cyclohexane, isocyanato-	125	C7H11NO	003173-53-3	38



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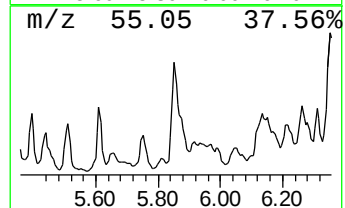
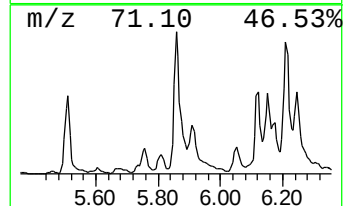
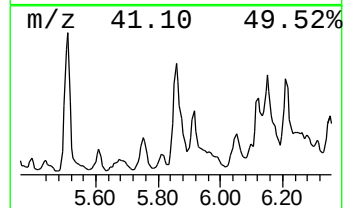
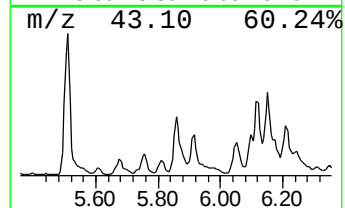
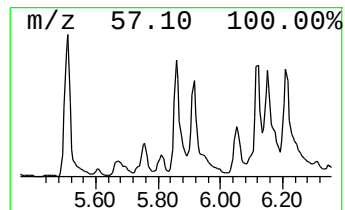
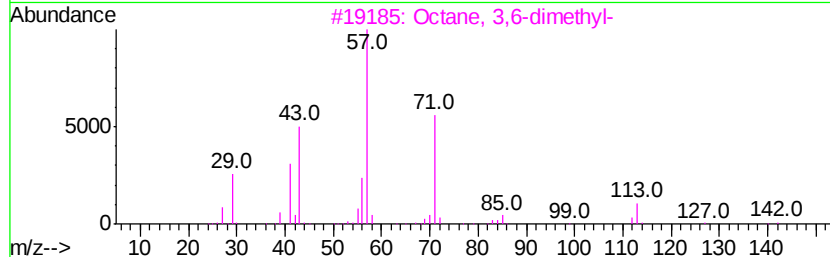
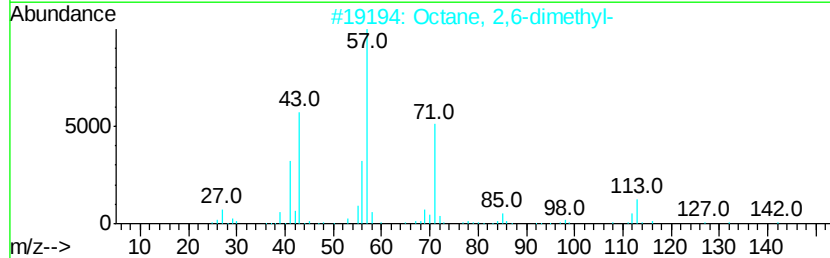
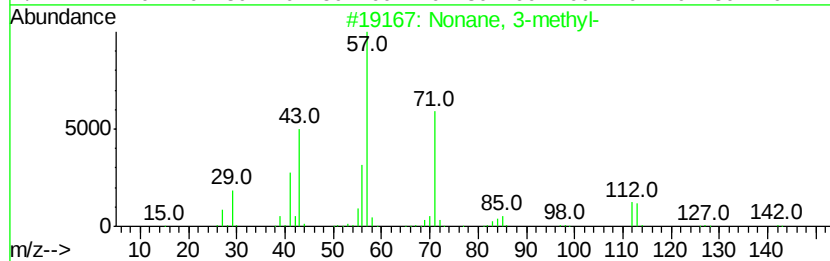
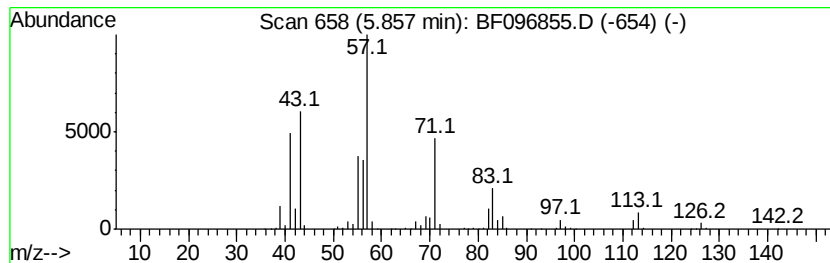
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Nonane, 3-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.86	106.31 ng	3524950	1,4-Dichlorobenzene-d4	6.61

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Nonane, 3-methyl-	142	C10H22	005911-04-6	59
2		Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	58
3		Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	53
4		Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	50
5		Sulfurous acid, butyl 2-ethylhex...	250	C12H26O3S	1000309-18-8	50



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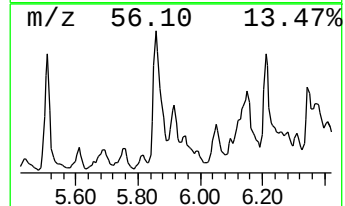
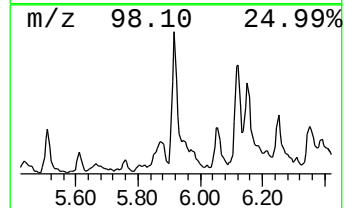
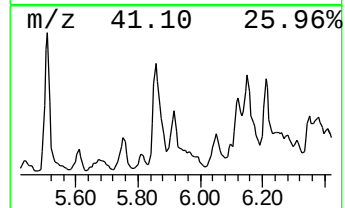
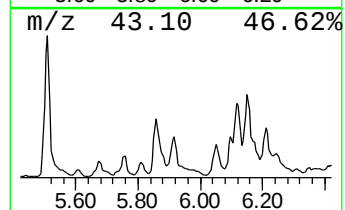
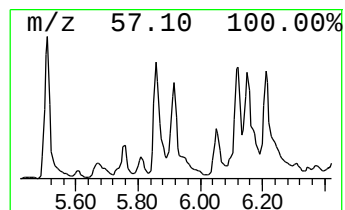
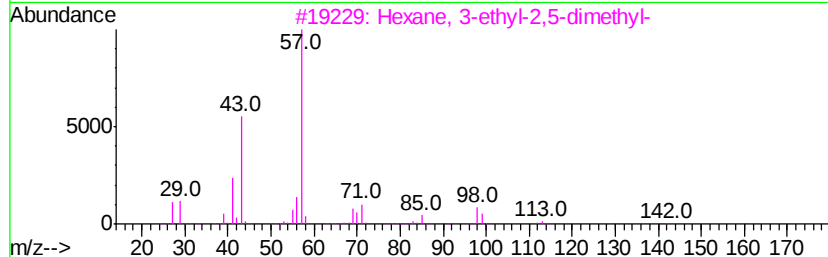
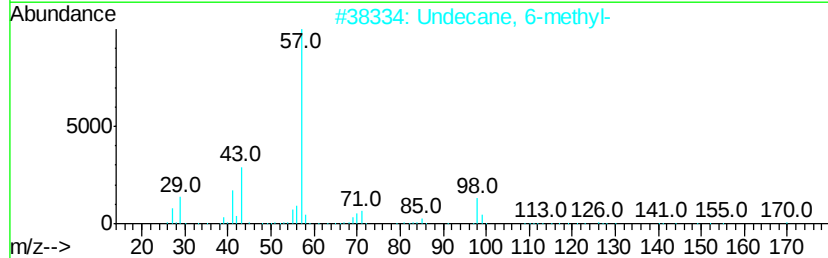
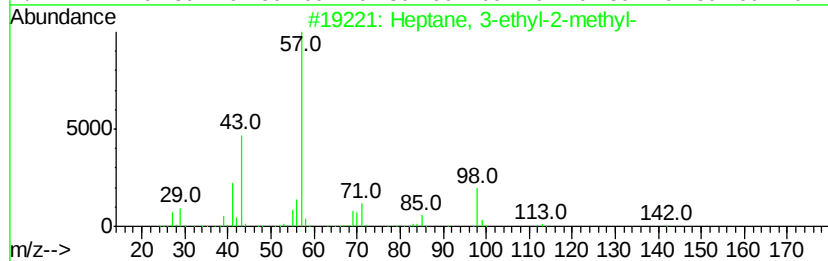
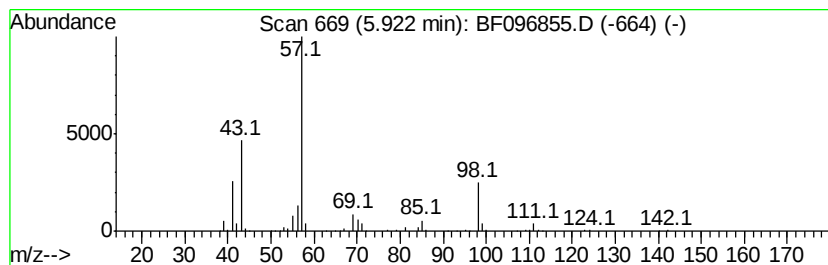
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Heptane, 3-ethyl-2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.92	26.05 ng	863700	1,4-Dichlorobenzene-d4	6.61

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Heptane, 3-ethyl-2-methyl-	142	C10H22	014676-29-0	90
2		Undecane, 6-methyl-	170	C12H26	017302-33-9	59
3		Hexane, 3-ethyl-2,5-dimethyl-	142	C10H22	052897-04-8	58
4		Decane, 2,5-dimethyl-	170	C12H26	017312-50-4	53
5		Tridecane, 2,2,4,10,12,12-hexame...	394	C28H58	003035-75-4	50



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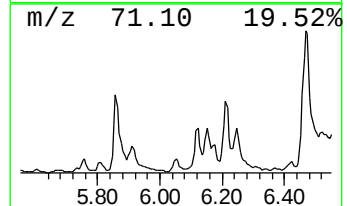
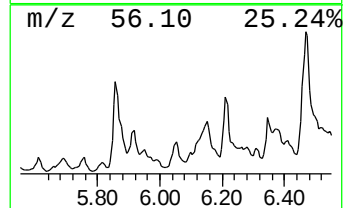
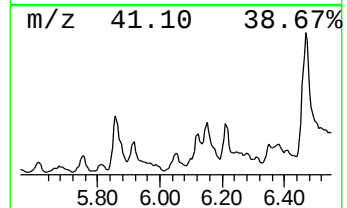
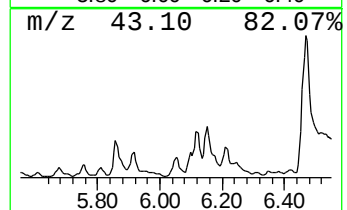
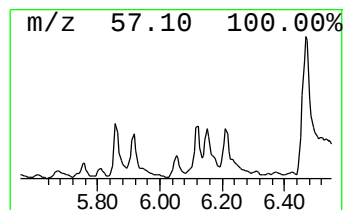
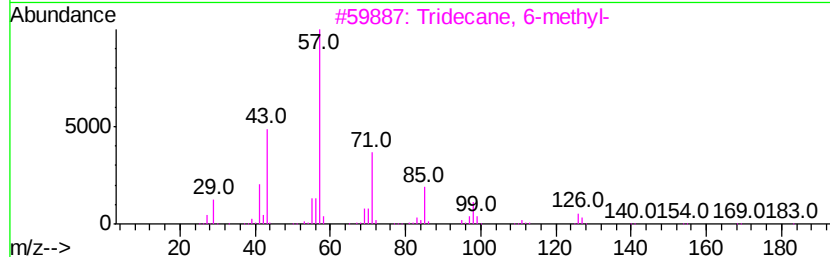
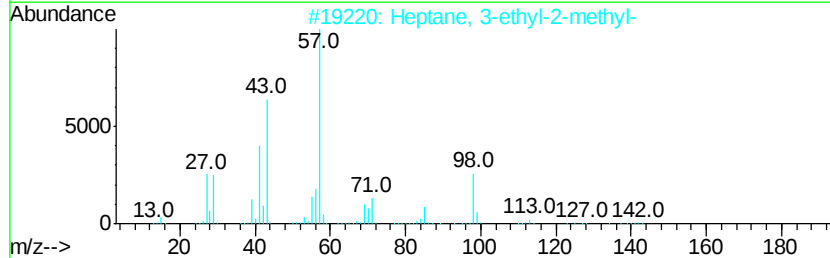
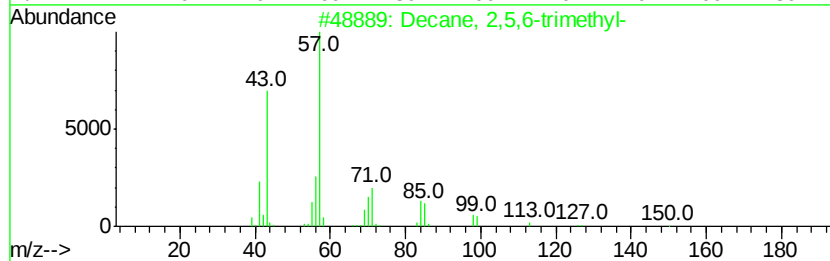
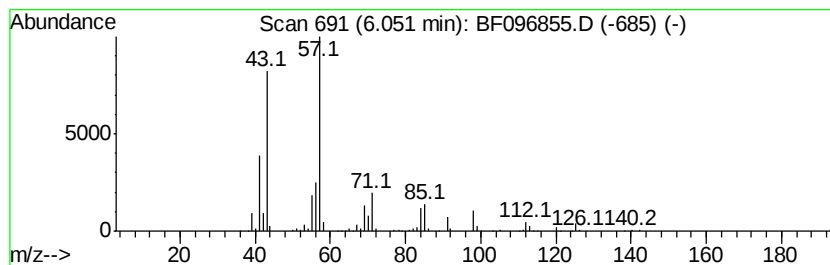
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Decane, 2,5,6-trimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.05	44.87 ng	1487810	1,4-Dichlorobenzene-d4	6.61

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Decane, 2,5,6-trimethyl-	184	C13H28	062108-23-0	86
2		Heptane, 3-ethyl-2-methyl-	142	C10H22	014676-29-0	59
3		Tridecane, 6-methyl-	198	C14H30	013287-21-3	53
4		Hexane, 2,2,3,3-tetramethyl-	142	C10H22	013475-81-5	53
5		Sulfurous acid, hexyl heptyl ester	264	C13H28O3S	1000309-12-9	50



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071817\
Data File : BF096855.D
Acq On : 18 Jul 2017 19:09
Operator : SJ/JU
Sample : I4244-01 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

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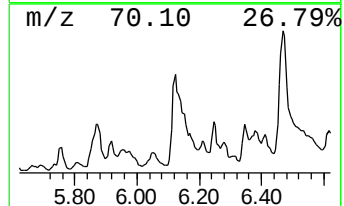
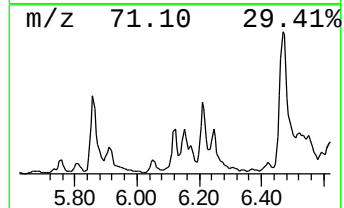
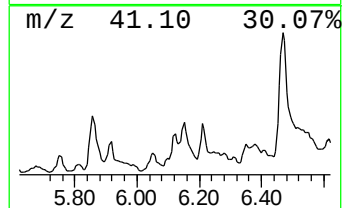
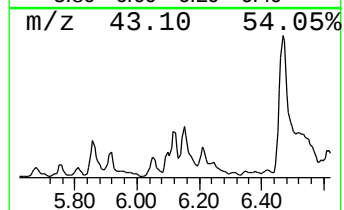
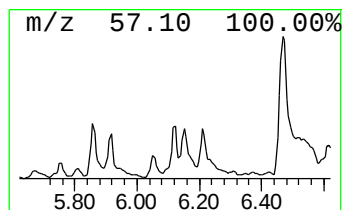
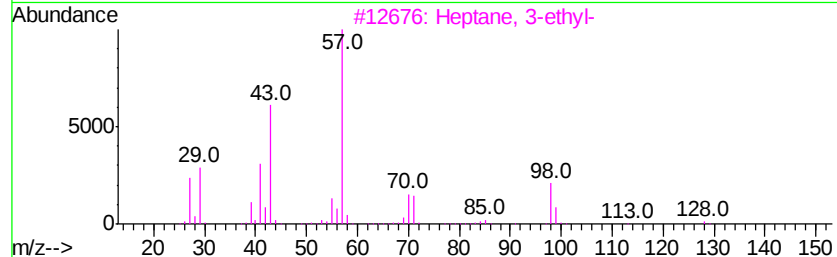
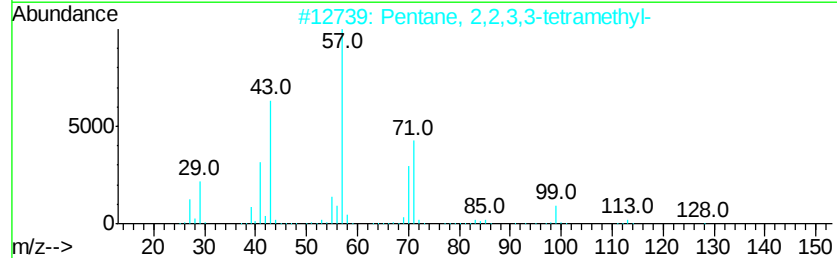
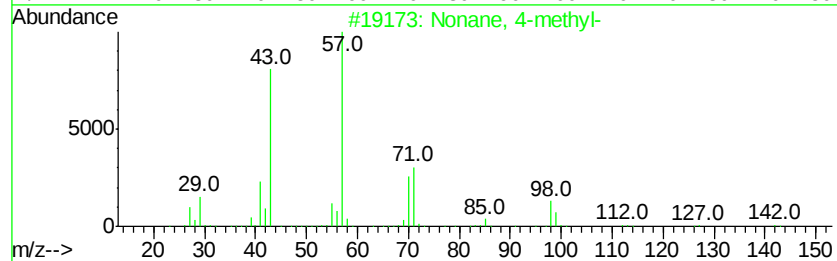
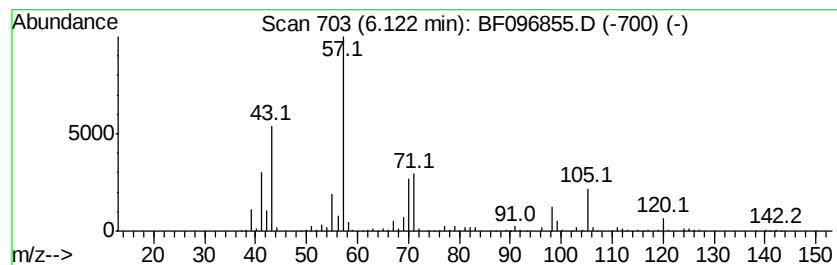
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Nonane, 4-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.12	72.70 ng	2410610	1,4-Dichlorobenzene-d4	6.61

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Nonane, 4-methyl-	142	C10H22	017301-94-9	58
2		Pentane, 2,2,3,3-tetramethyl-	128	C9H20	007154-79-2	43
3		Heptane, 3-ethyl-	128	C9H20	015869-80-4	43
4		Nonane, 2-methyl-	142	C10H22	000871-83-0	43
5		Heptane, 2,3,4-trimethyl-	142	C10H22	052896-95-4	43



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071817\
Data File : BF096855.D
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ALS Vial : 23 Sample Multiplier: 1

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ClientSampleId :
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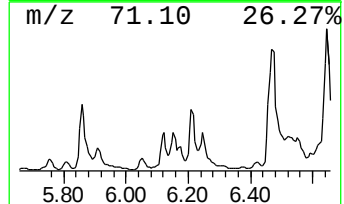
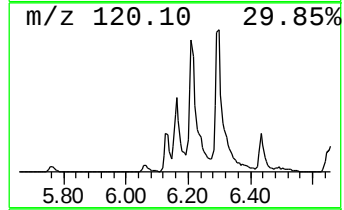
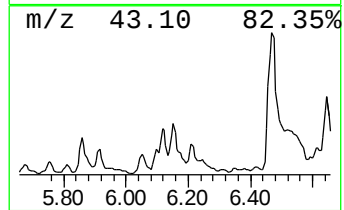
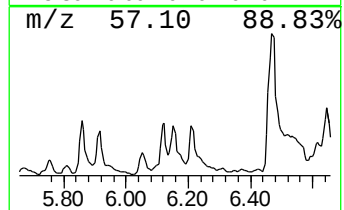
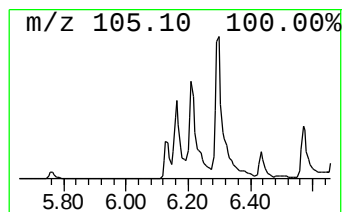
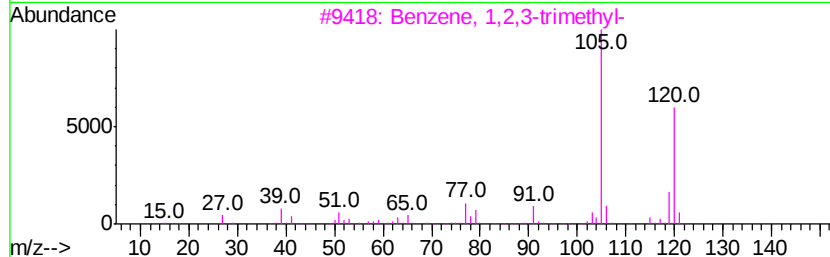
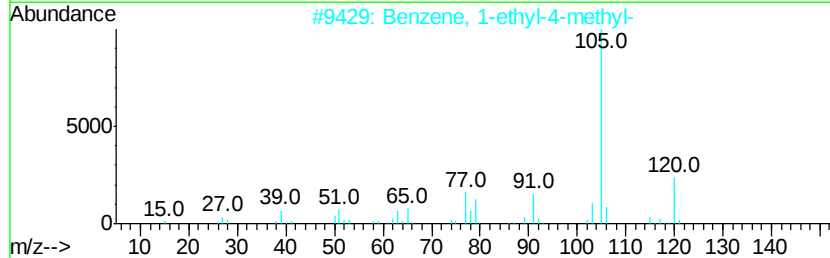
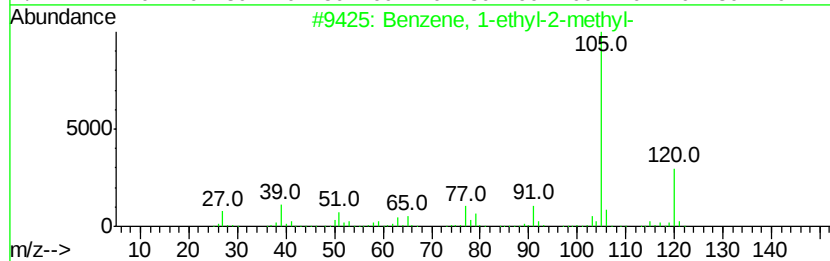
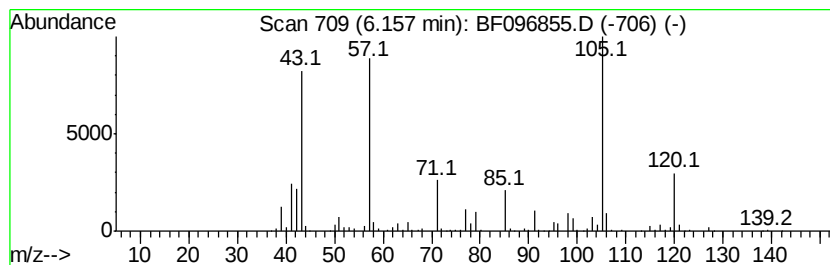
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Benzene, 1-ethyl-2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.16	92.77 ng	3075860	1,4-Dichlorobenzene-d4	6.61

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	70
2		Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	38
3		Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	38
4		Mesitylene	120	C9H12	000108-67-8	38
5		Benzene, (1-methylethyl)-	120	C9H12	000098-82-8	38



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071817\
Data File : BF096855.D
Acq On : 18 Jul 2017 19:09
Operator : SJ/JU
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Misc :
ALS Vial : 23 Sample Multiplier: 1

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ClientSampleId :
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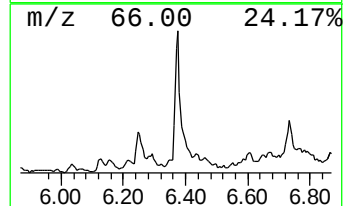
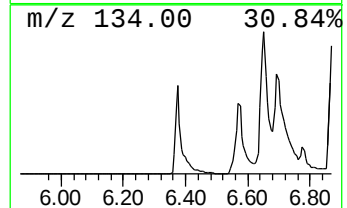
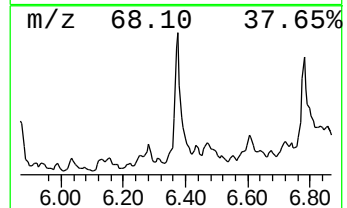
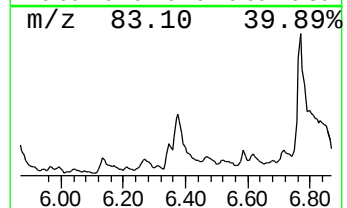
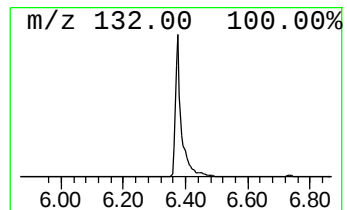
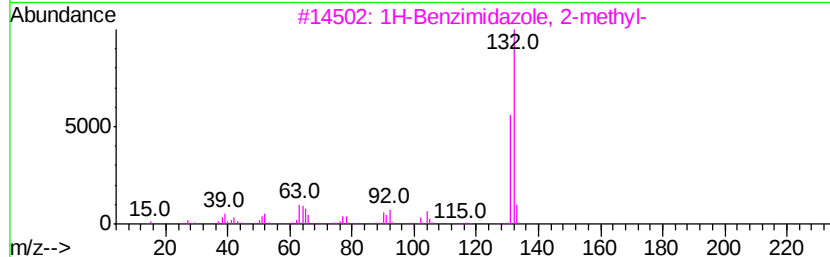
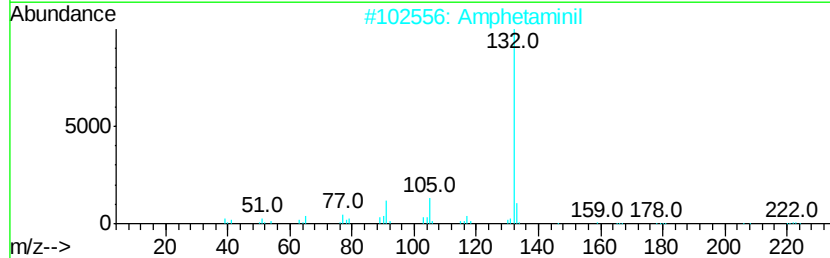
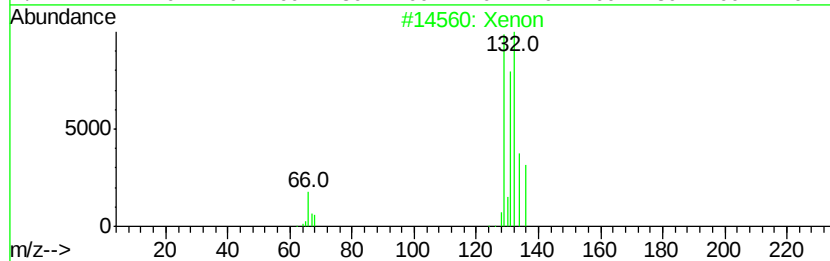
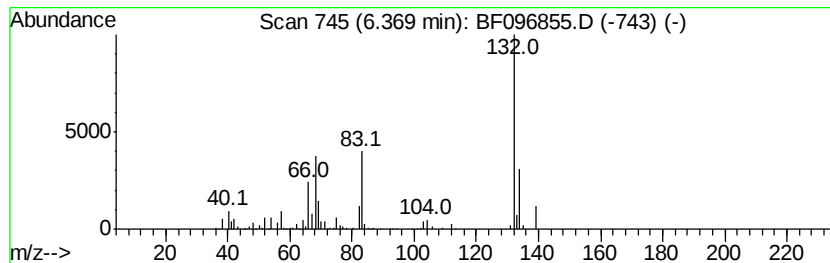
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 unknown6.37 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.37	30.73 ng	1018760	1,4-Dichlorobenzene-d4	6.61

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Xenon	132	Xe	007440-63-3	45
2		Amphetaminil	250	C17H18N2	017590-01-1	10
3		1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	9
4		4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9
5		(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	9



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071817\
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Acq On : 18 Jul 2017 19:09
Operator : SJ/JU
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ALS Vial : 23 Sample Multiplier: 1

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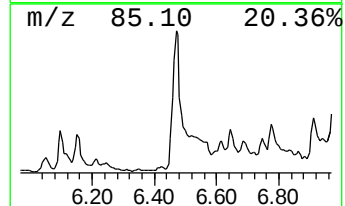
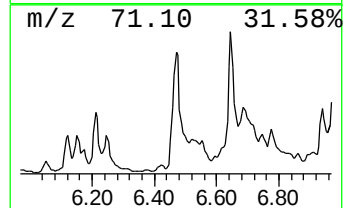
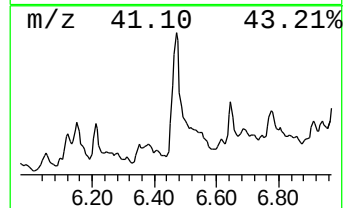
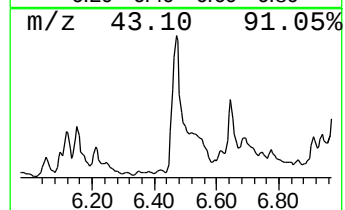
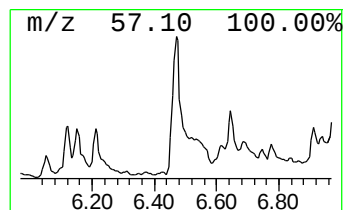
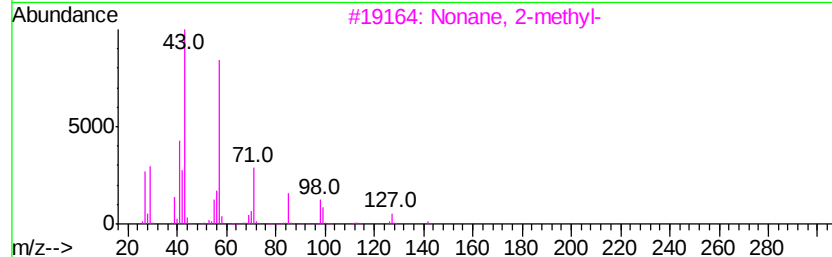
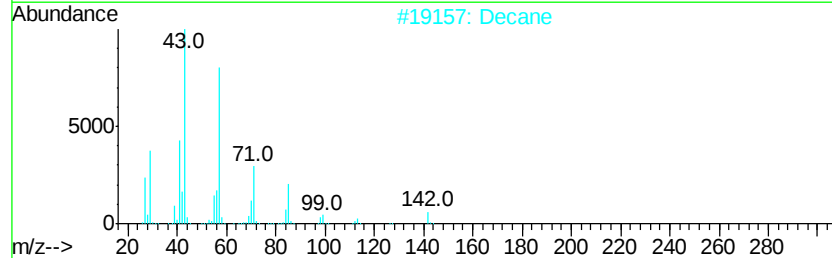
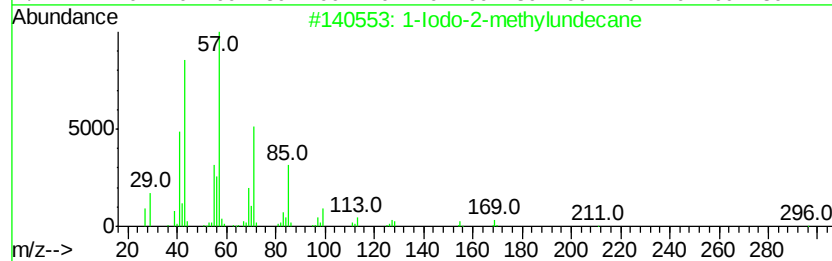
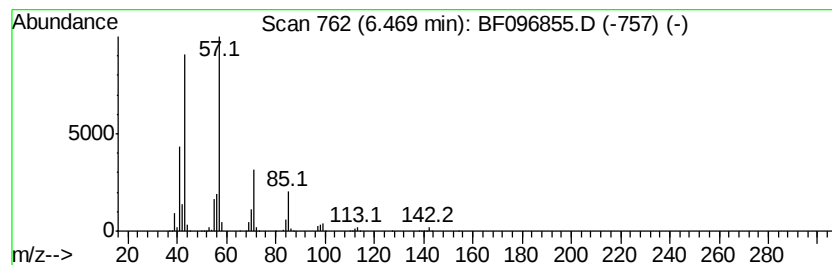
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 10 1-Iodo-2-methylundecane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.47	267.94 ng	8884210	1,4-Dichlorobenzene-d4	6.61

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1-Iodo-2-methylundecane	296	C12H25I	073105-67-6	83
2		Decane	142	C10H22	000124-18-5	78
3		Nonane, 2-methyl-	142	C10H22	000871-83-0	72
4		Pentadecane	212	C15H32	000629-62-9	72
5		Heptadecane, 2,6,10,14-tetramethyl-	296	C21H44	018344-37-1	64



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071817\
Data File : BF096855.D
Acq On : 18 Jul 2017 19:09
Operator : SJ/JU
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ALS Vial : 23 Sample Multiplier: 1

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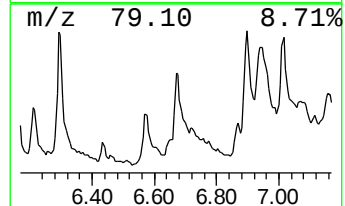
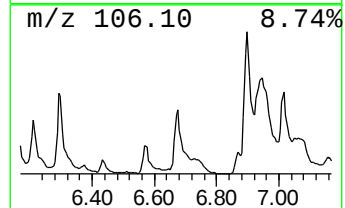
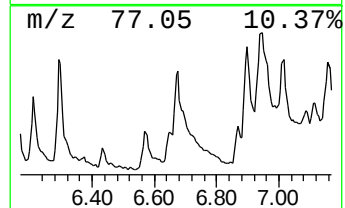
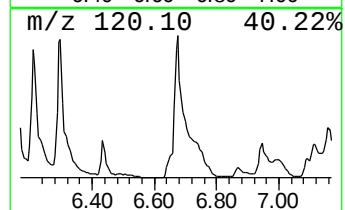
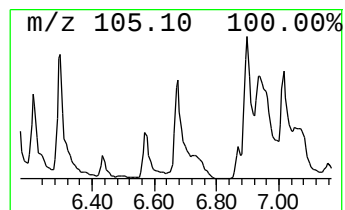
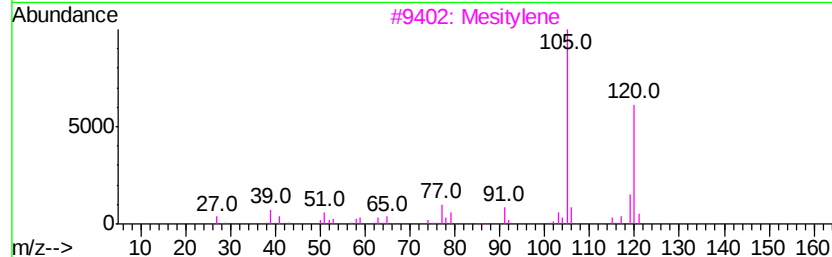
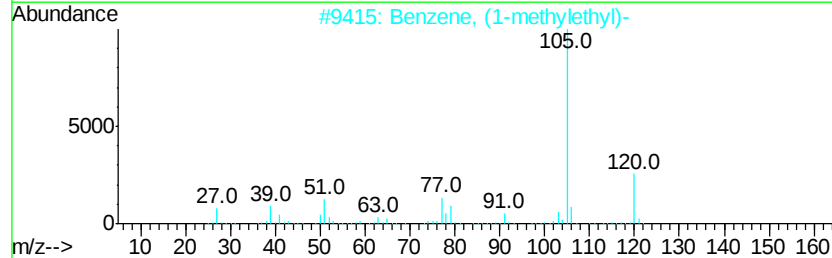
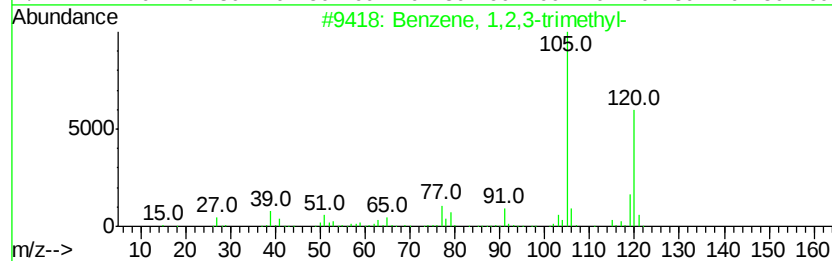
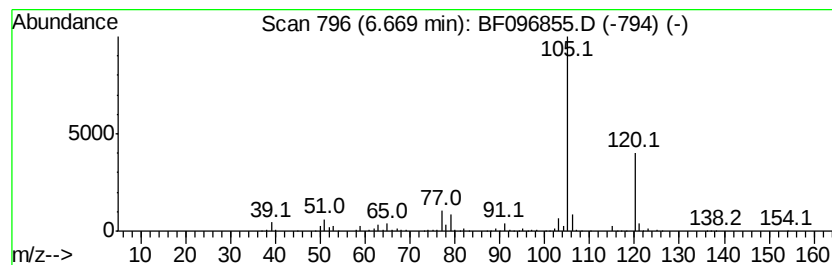
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 Benzene, 1,2,3-trimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.67	103.05 ng	3416670	1,4-Dichlorobenzene-d4	6.61

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	90
2		Benzene, (1-methylethyl)-	120	C9H12	000098-82-8	90
3		Mesitylene	120	C9H12	000108-67-8	90
4		Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	86
5		Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	86



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\
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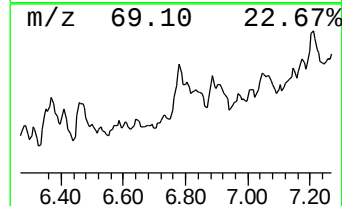
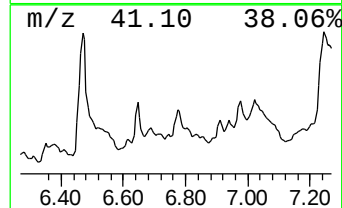
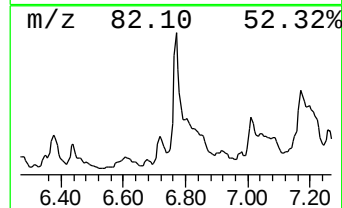
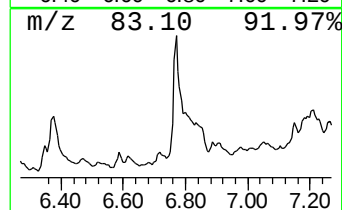
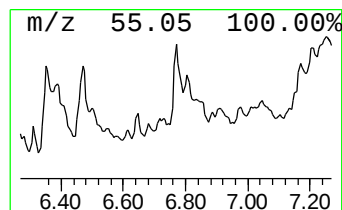
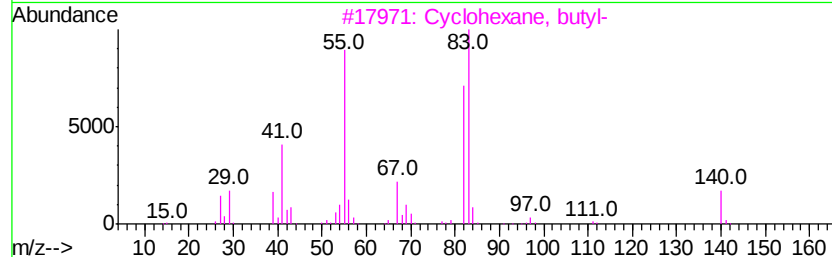
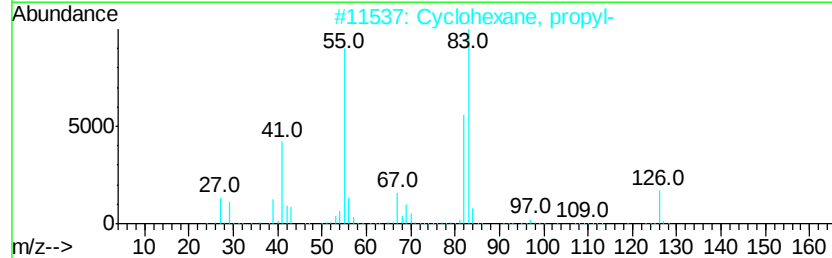
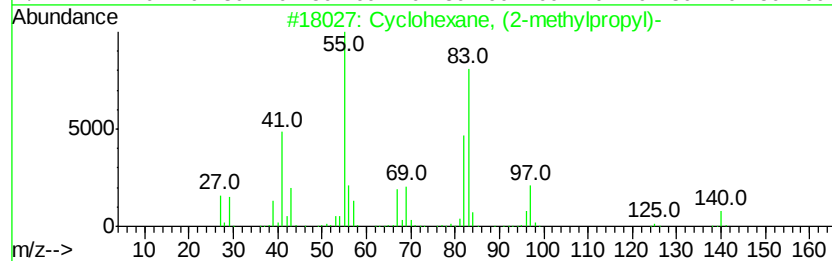
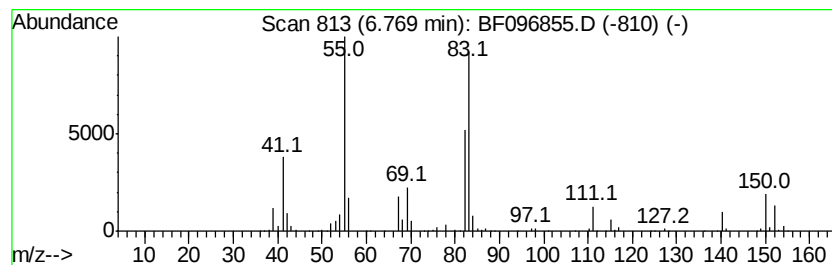
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 12 Cyclohexane, (2-methylpropyl)- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.77	84.73 ng	2809270	1,4-Dichlorobenzene-d4	6.61

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclohexane, (2-methylpropyl)-	140	C10H20	001678-98-4	58
2		Cyclohexane, propyl-	126	C9H18	001678-92-8	50
3		Cyclohexane, butyl-	140	C10H20	001678-93-9	47
4		Cyclohexanone, 3,3,5-trimethyl-	140	C9H16O	000873-94-9	46
5		1,4-Pentadien-3-ol	84	C5H8O	000922-65-6	38



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Data File : BF096855.D
Acq On : 18 Jul 2017 19:09
Operator : SJ/JU
Sample : I4244-01 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

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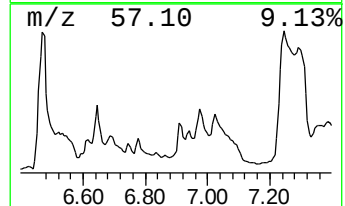
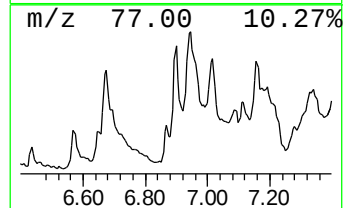
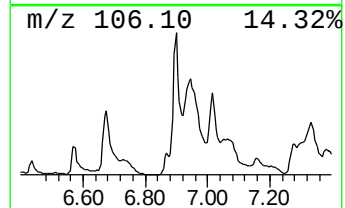
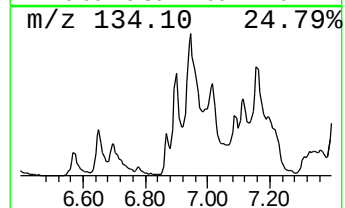
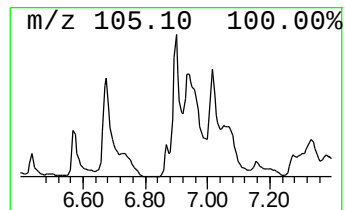
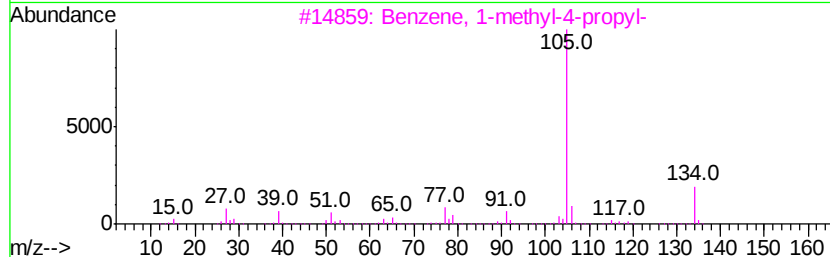
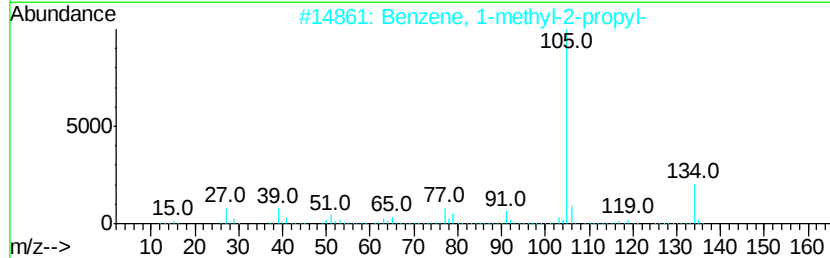
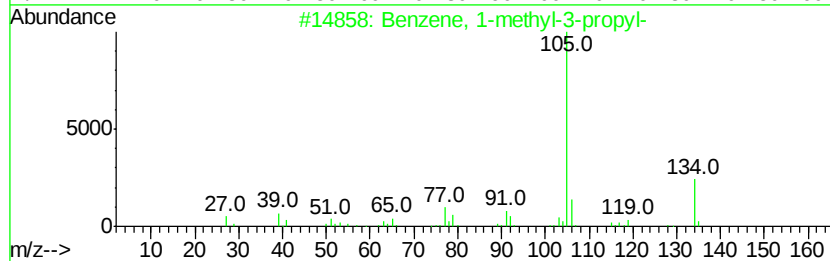
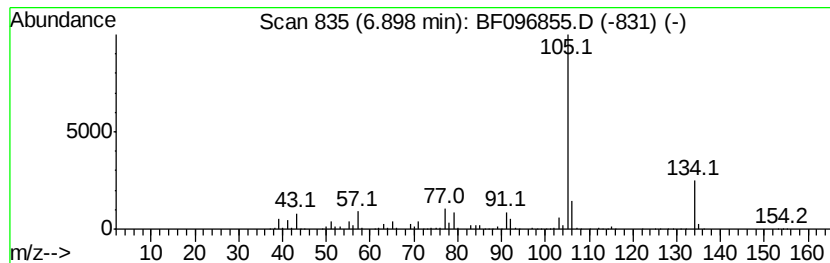
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Benzene, 1-methyl-3-propyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.90	83.66 ng	2773950	1,4-Dichlorobenzene-d4	6.61

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	87
2		Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	87
3		Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	80
4		Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	64
5		2-Tolyloxirane	134	C9H10O	002783-26-8	62



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ClientSampleId :
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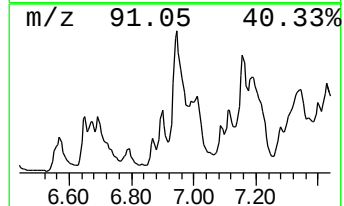
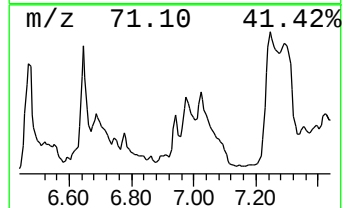
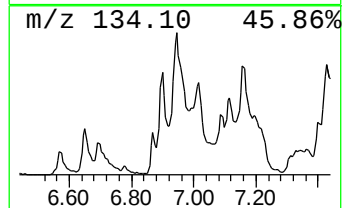
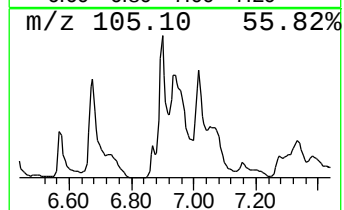
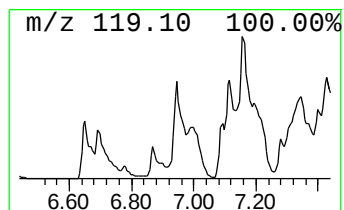
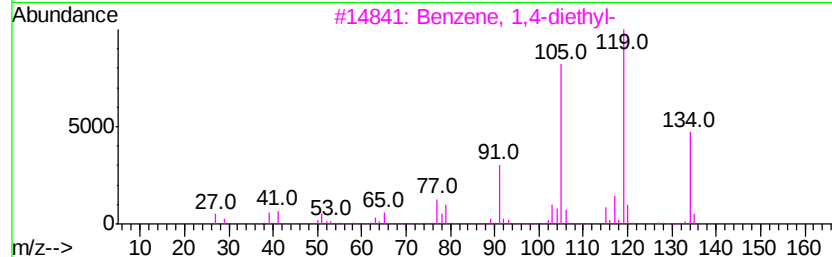
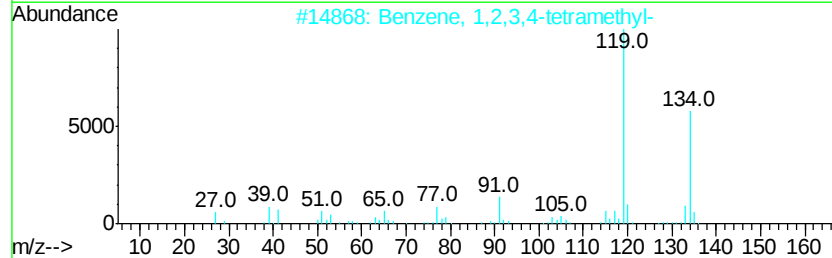
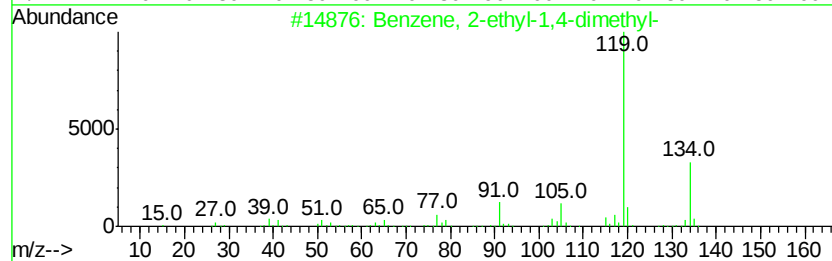
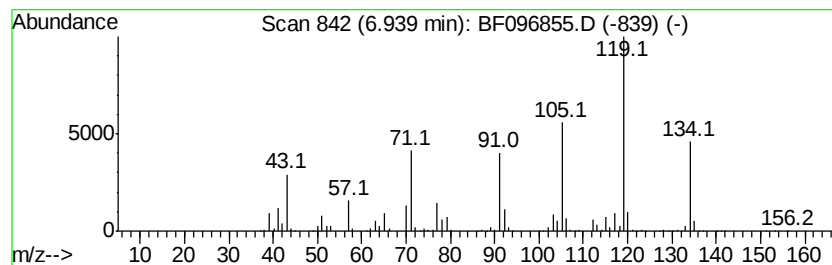
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.94	74.89 ng	2483260	1,4-Dichlorobenzene-d4	6.61

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	94
2		Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	93
3		Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	87
4		o-Cymene	134	C10H14	000527-84-4	83
5		Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	76



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Misc :
ALS Vial : 23 Sample Multiplier: 1

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ClientSampleId :
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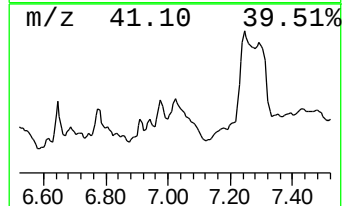
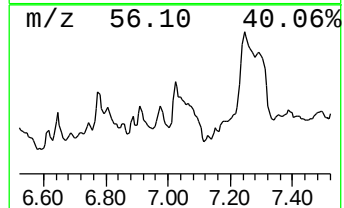
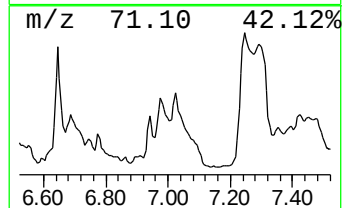
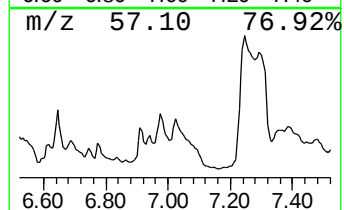
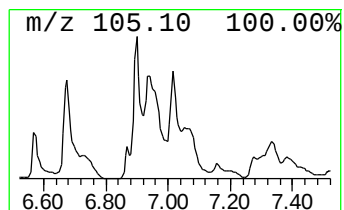
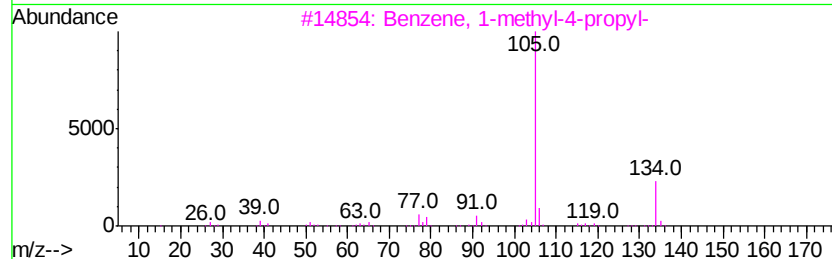
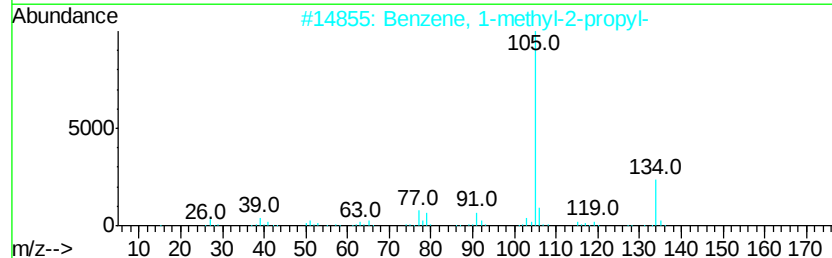
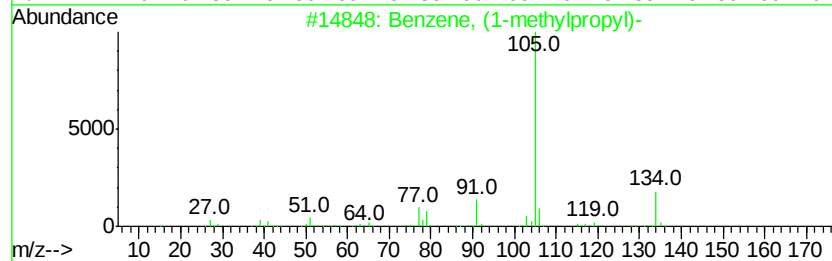
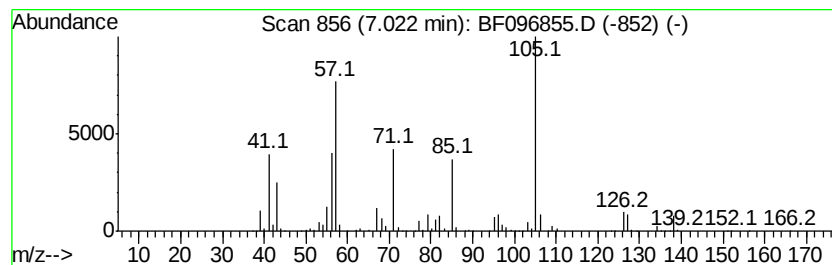
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Benzene, (1-methylpropyl)- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.02	102.05 ng	3383750	1,4-Dichlorobenzene-d4	6.61

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	53
2		Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	47
3		Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	47
4		Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	46
5		3a,6-Methano-3aH-indene, 2,3,4,5...	134	C10H14	098640-10-9	43



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Misc :
ALS Vial : 23 Sample Multiplier: 1

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ClientSampleId :
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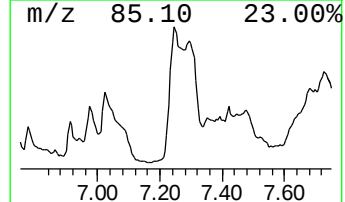
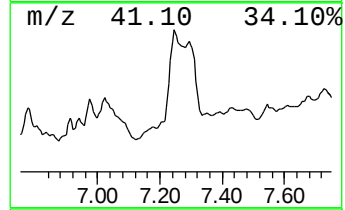
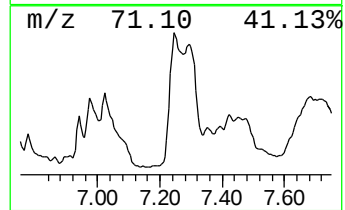
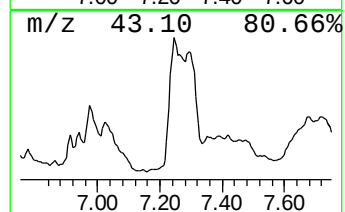
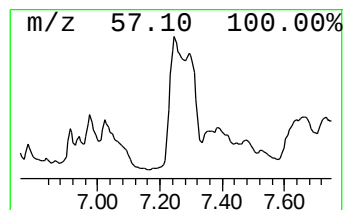
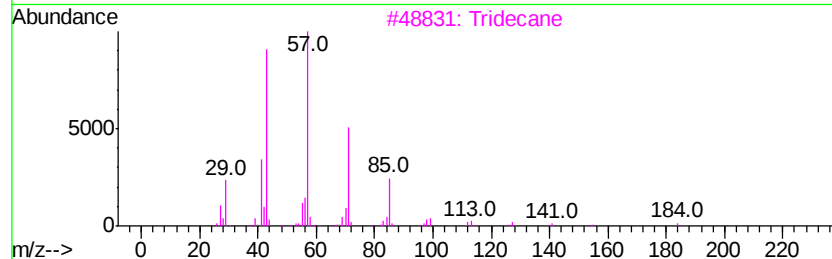
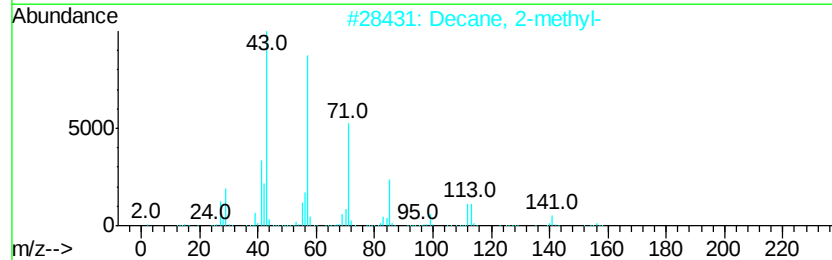
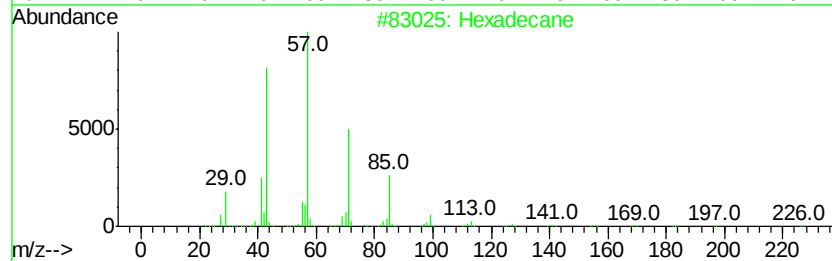
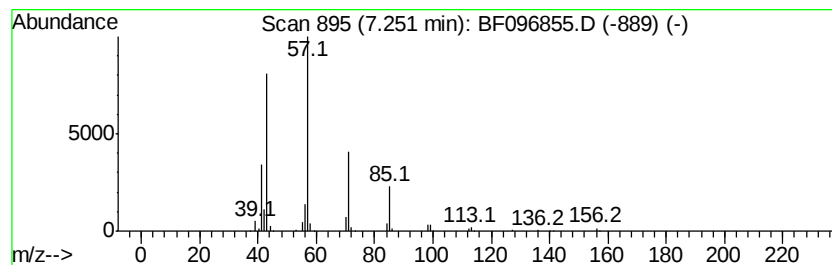
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Hexadecane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.25	146.11 ng	4844530	1,4-Dichlorobenzene-d4	6.61

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexadecane	226	C16H34	000544-76-3	90
2			Decane, 2-methyl-	156	C11H24	006975-98-0	80
3			Tridecane	184	C13H28	000629-50-5	78
4			Decane, 6-ethyl-2-methyl-	184	C13H28	062108-21-8	78
5			Sulfurous acid, 2-propyl undecyl...	278	C14H30O3S	1000309-12-2	72



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ALS Vial : 23 Sample Multiplier: 1

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ClientSampleId :
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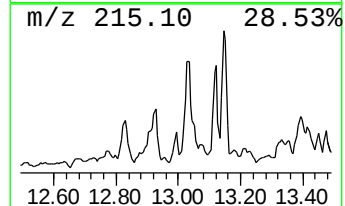
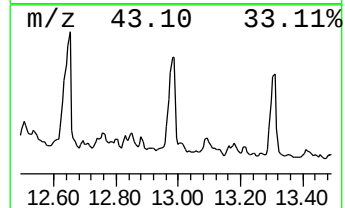
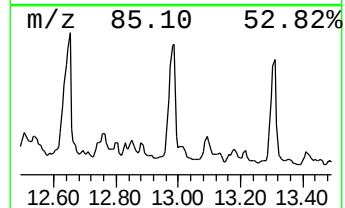
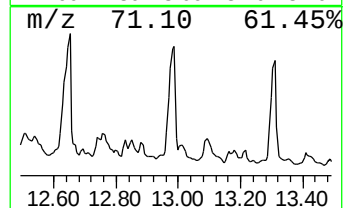
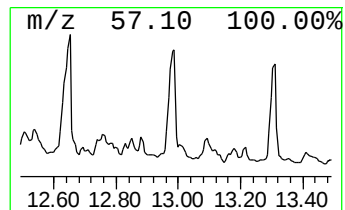
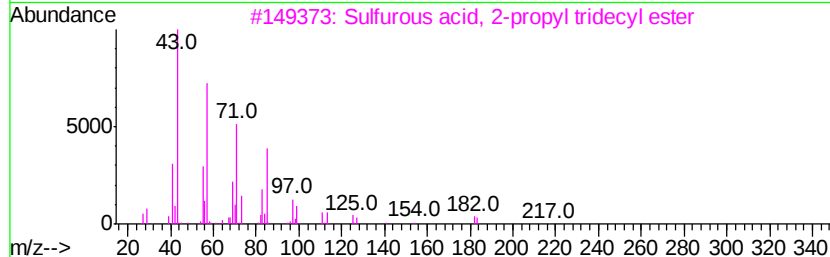
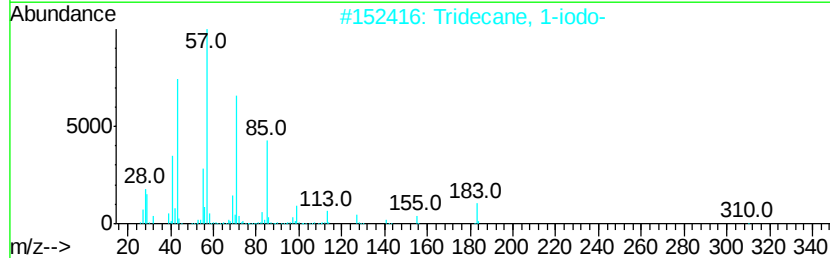
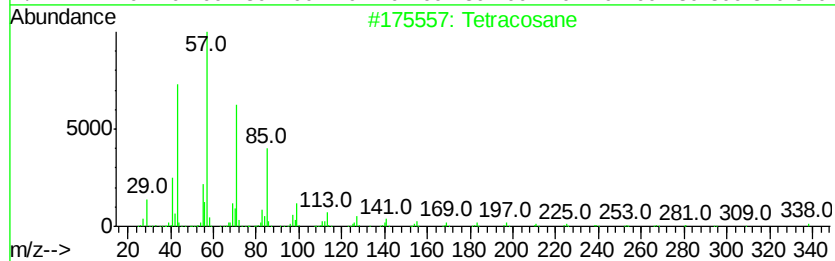
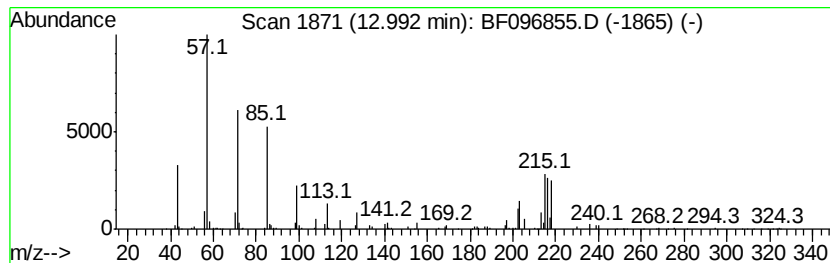
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 Tetracosane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	55.78 ng	2803180	Chrysene-d12	13.76

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Tetracosane	338	C24H50	000646-31-1	90
2		Tridecane, 1-iodo-	310	C13H27I	035599-77-0	90
3		Sulfurous acid, 2-propyl tridecyl...	306	C16H34O3S	1000309-12-4	72
4		Sulfurous acid, 2-propyl undecyl...	278	C14H30O3S	1000309-12-2	64
5		Tetratetracontane	619	C44H90	007098-22-8	64



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\
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ClientSampleId :
PENNSYLVANIA-ANALYTICAL

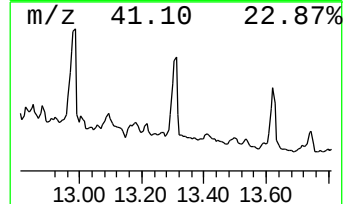
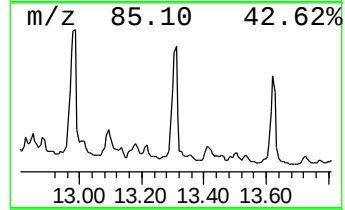
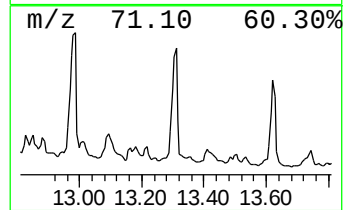
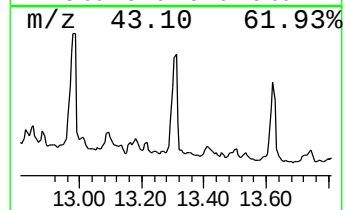
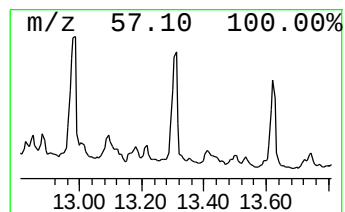
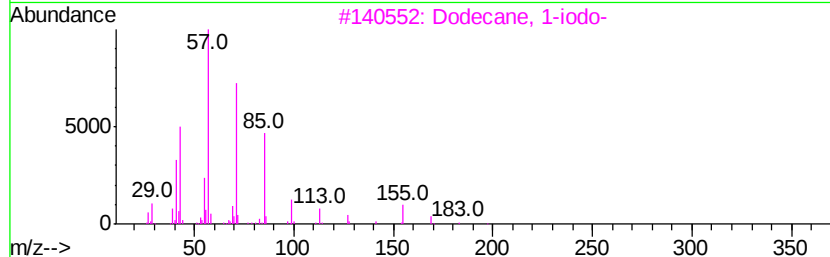
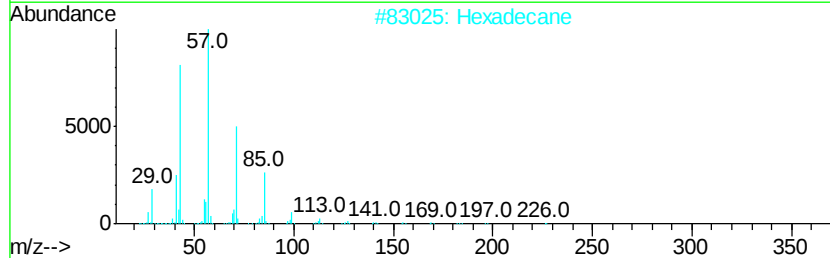
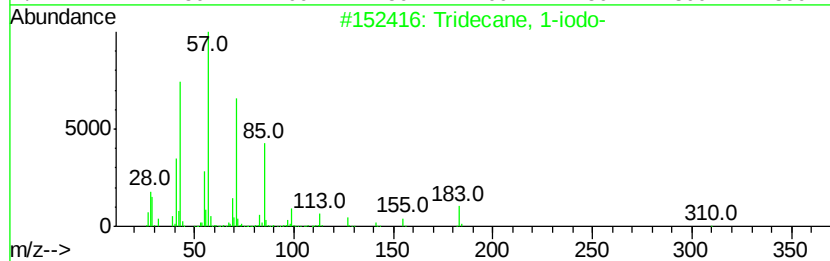
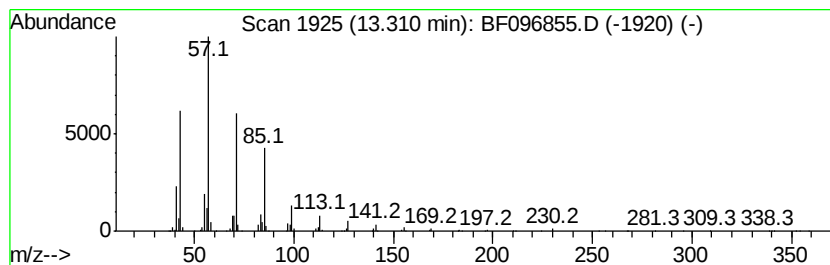
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Tridecane, 1-iodo- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.31	54.91 ng	2759790	Chrysene-d12	13.76

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	90
2		Hexadecane	226	C16H34	000544-76-3	90
3		Dodecane, 1-iodo-	296	C12H25I	004292-19-7	80
4		Heptacosane	380	C27H56	000593-49-7	74
5		Pentadecane	212	C15H32	000629-62-9	72



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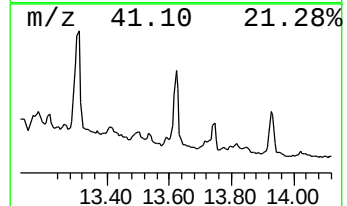
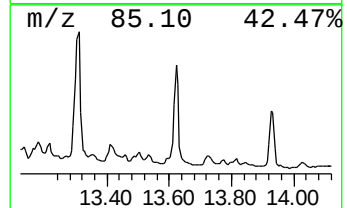
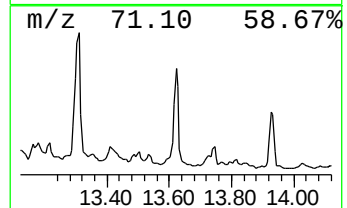
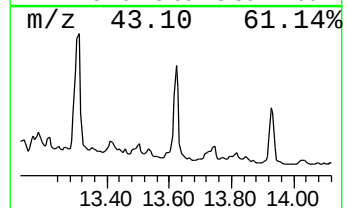
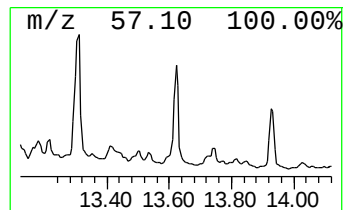
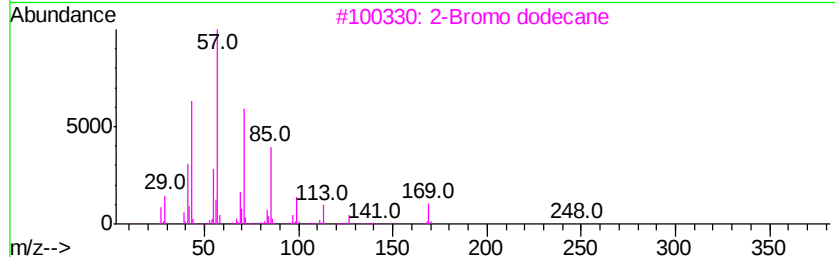
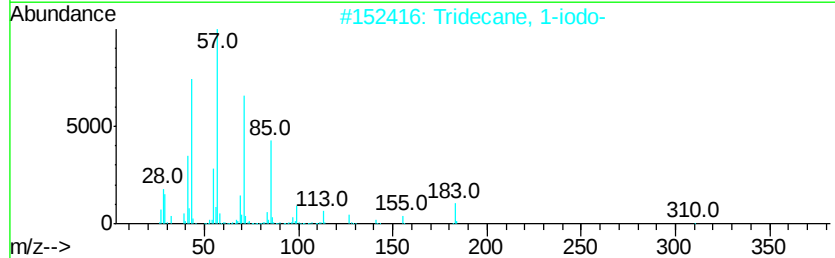
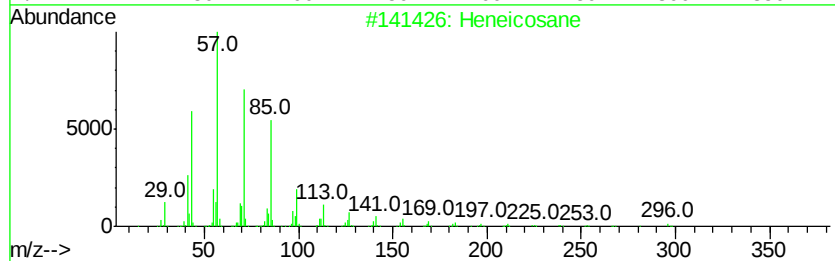
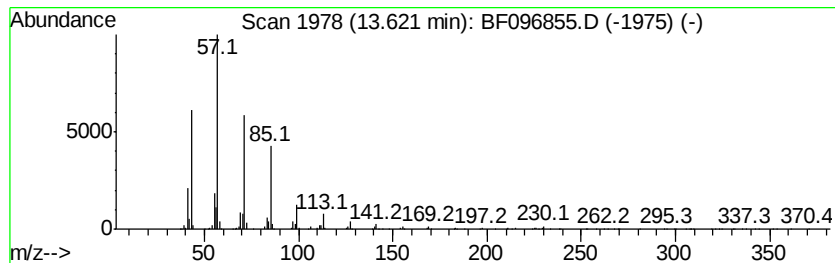
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Heneicosane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.62	57.46 ng	2887720	Chrysene-d12	13.76

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Heneicosane	296	C21H44	000629-94-7	90
2		Tridecane, 1-iodo-	310	C13H27I	035599-77-0	90
3		2-Bromo dodecane	248	C12H25Br	013187-99-0	90
4		Hexacosane	366	C26H54	000630-01-3	80
5		Hexadecane	226	C16H34	000544-76-3	76



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071817\
Data File : BF096855.D
Acq On : 18 Jul 2017 19:09
Operator : SJ/JU
Sample : I4244-01 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PENNSYLVANIA-ANALYTICAL

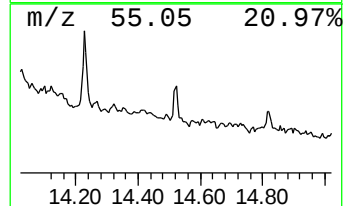
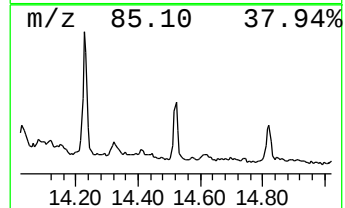
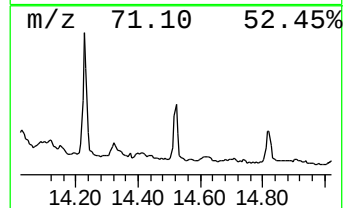
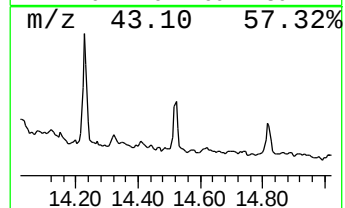
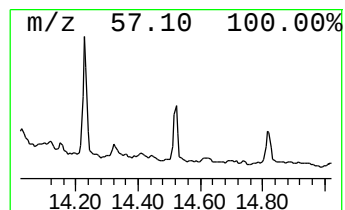
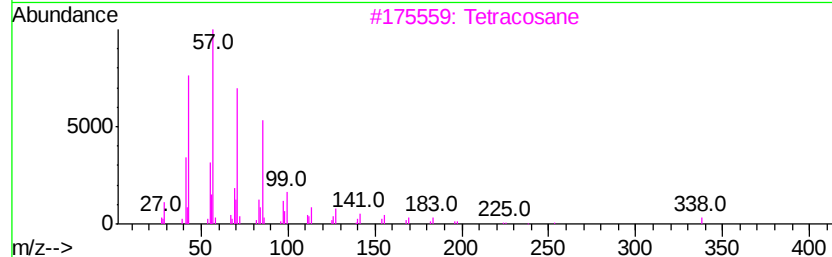
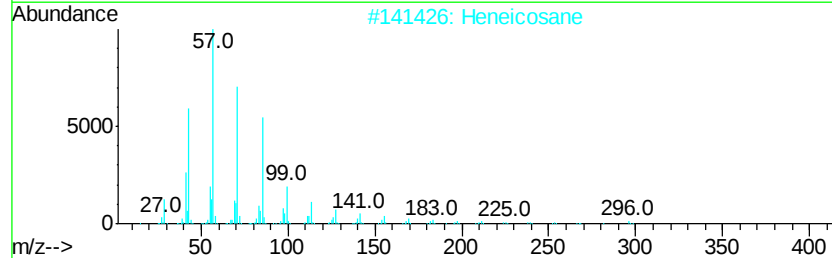
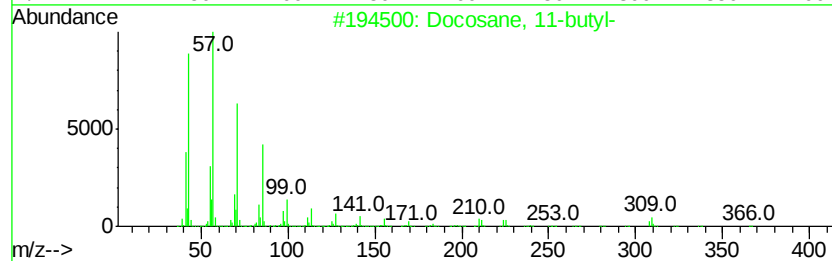
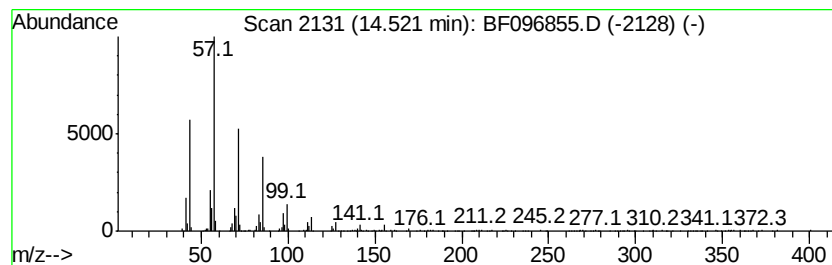
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Docosane, 11-butyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.52	29.59 ng	495408	Perylene-d12	15.11

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Docosane, 11-butyl-	366	C26H54	013475-76-8	91
2		Heneicosane	296	C21H44	000629-94-7	90
3		Tetracosane	338	C24H50	000646-31-1	87
4		Hexacosane	366	C26H54	000630-01-3	87
5		Heptadecane, 9-octyl-	352	C25H52	007225-64-1	87



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071817\
 Data File : BF096855.D
 Acq On : 18 Jul 2017 19:09
 Operator : SJ/JU
 Sample : I4244-01 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PENNSYLVANIA-ANALYTICAL

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.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
Nonane	5.51	99.5	ng	3300950	1	6.61	663142	20.0
Cyclohexyl propio...	5.75	36.0	ng	1191970	1	6.61	663142	20.0
Nonane, 3-methyl-	5.86	106.3	ng	3524950	1	6.61	663142	20.0
Heptane, 3-ethyl-...	5.92	26.1	ng	863700	1	6.61	663142	20.0
Decane, 2,5,6-tri...	6.05	44.9	ng	1487810	1	6.61	663142	20.0
Nonane, 4-methyl-	6.12	72.7	ng	2410610	1	6.61	663142	20.0
Benzene, 1-ethyl-...	6.16	92.8	ng	3075860	1	6.61	663142	20.0
unknown6.37	6.37	30.7	ng	1018760	1	6.61	663142	20.0
1-Iodo-2-methylun...	6.47	267.9	ng	8884210	1	6.61	663142	20.0
Benzene, 1,2,3-tr...	6.67	103.1	ng	3416670	1	6.61	663142	20.0
Cyclohexane, (2-m...	6.77	84.7	ng	2809270	1	6.61	663142	20.0
Benzene, 1-methyl...	6.90	83.7	ng	2773950	1	6.61	663142	20.0
Benzene, 2-ethyl-...	6.94	74.9	ng	2483260	1	6.61	663142	20.0
Benzene, (1-methy...	7.02	102.1	ng	3383750	1	6.61	663142	20.0
Hexadecane	7.25	146.1	ng	4844530	1	6.61	663142	20.0
Tetracosane	12.99	55.8	ng	2803180	5	13.76	1005160	20.0
Tridecane, 1-iodo-	13.31	54.9	ng	2759790	5	13.76	1005160	20.0
Heneicosane	13.62	57.5	ng	2887720	5	13.76	1005160	20.0
Docosane, 11-butyl-	14.52	29.6	ng	495408	6	15.11	334875	20.0