LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
Data File : BF083740.D
Acq On : 13 Dec 2015 20:20
Operator : UM/IZ
Sample : G4648-21
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-08(16-18)

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

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.916	154	160	164	rBV2	154166	344826	1.98%	0.140%
2	4.064	169	173	176	rBV	141238	254641	1.46%	0.103%
3	4.213	181	186	188	rBV	320160	603962	3.46%	0.244%
4	4.259	188	190	193	rVB	167345	223374	1.28%	0.090%
5	4.556	212	216	220	rVB2	395273	679869	3.89%	0.275%
6	4.659	220	225	228	rBV	246958	349707	2.00%	0.142%
7	4.819	236	239	241	rBV2	235692	321463	1.84%	0.130%
8	4.864	241	243	245	rBV	386569	487487	2.79%	0.197%
9	4.979	248	253	255	rBV	1094432	1677500	9.61%	0.679%
10	5.070	255	261	263	rBV3	2111844	4259035	24.39%	1.724%
11	5.127	264	266	269	rVB	1805687	2538698	14.54%	1.027%
12	5.173	269	270	274	rVB3	470433	954007	5.46%	0.386%
13	5.264	274	278	281	rVB	325071	563576	3.23%	0.228%
14	5.344	281	285	291	rBV2	3043617	7916311	45.34%	3.204%
15	5.424	291	292	297	rVB	1586645	2704748	15.49%	1.095%
16	5.527	297	301	306	rBV3	4157698	9928875	56.87%	4.018%
17	5.619	306	309	312	rBV3	1278936	2285280	13.09%	0.925%
18	5.710	314	317	319	rBV2	2009500	4220335	24.17%	1.708%
19	5.756	319	321	323	rBV	2103719	3345226	19.16%	1.354%
20	5.802	323	325	329	rVB2	3097723	6846912	39.22%	2.771%
21	5.870	329	331	335	rVB	763438	1724197	9.88%	0.698%
22	5.962	335	339	342	rBV3	4419625	13356549	76.50%	5.405%
23	6.053	342	347	349	rBV	937078	3169901	18.16%	1.283%
24	6.110	349	352	356	rBV3	2733858	7934772	45.45%	3.211%
25	6.236	356	363	366	rBV6	3522000	16015494	91.73%	6.482%
26	6.430	375	380	382	rBV4	3136087	11123251	63.71%	4.502%
27	6.510	382	387	392	rVV5	3578760	17459075	100.00%	7.066%
28	6.670	396	401	402	rVV3	1780723	5224034	29.92%	2.114%
29	6.933	420	424	426	rBV3	1614050	5153988	29.52%	2.086%
30	7.230	447	450	451	rBV2	1730594	3604202	20.64%	1.459%
31	7.265	451	453	454	rVV	2896035	4381087	25.09%	1.773%
32	7.310	454	457	460	rVB2	3371047	7683634	44.01%	3.110%
33	7.379	460	463	466	rBV2	2817235	8076386	46.26%	3.269%
34	7.470	469	471	472	rVV2	1996402	3028867	17.35%	1.226%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
Data File : BF083740.D
Acq On : 13 Dec 2015 20:20
Operator : UM/IZ
Sample : G4648-21
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-08(16-18)

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

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	7.505	472	474	476	rVV2	3343233	6906009	39.56%	2.795%
36	7.550	476	478	481	rVB4	2686231	4530051	25.95%	1.833%
37	7.619	481	484	485	rBV3	3150511	5694017	32.61%	2.304%
38	7.676	485	489	490	rVV2	2682967	5925531	33.94%	2.398%
39	7.756	490	496	501	rVB6	3359970	16093276	92.18%	6.513%
40	7.859	501	505	506	rBV3	3180727	6355871	36.40%	2.572%
41	7.882	506	507	512	rVB4	3530928	6355627	36.40%	2.572%
42	7.973	512	515	518	rVB2	3256153	7402919	42.40%	2.996%
43	8.042	518	521	524	rBV4	1828626	3137050	17.97%	1.270%
44	8.088	524	525	528	rVB	900178	1024201	5.87%	0.415%
45	8.179	530	533	534	rBV3	1306603	1894818	10.85%	0.767%
46	8.213	534	536	537	rBV2	1733649	2023749	11.59%	0.819%
47	8.282	540	542	543	rVB2	2156741	2430455	13.92%	0.984%
48	8.305	543	544	546	rVB	937180	712406	4.08%	0.288%
49	8.373	548	550	555	rVB4	412340	995824	5.70%	0.403%
50	8.453	555	557	559	rVB3	178767	174636	1.00%	0.071%
51	8.510	559	562	565	rVB4	902850	1481207	8.48%	0.599%
52	8.556	565	566	568	rVB2	424219	383681	2.20%	0.155%
53	8.590	568	569	571	rVB2	427537	410592	2.35%	0.166%
54	8.636	571	573	575	rBV2	819608	824425	4.72%	0.334%
55	8.670	575	576	578	rVB2	214256	236250	1.35%	0.096%
56	8.910	594	597	599	rVB2	298437	518321	2.97%	0.210%
57	9.013	604	606	608	rVB	486534	419745	2.40%	0.170%
58	9.276	627	629	631	rVB	3267390	2885284	16.53%	1.168%
59	9.608	655	658	660	rBV2	110389	191190	1.10%	0.077%
60	9.665	662	663	667	rVB	581711	589373	3.38%	0.239%
61	9.951	686	688	690	rVB	1164076	1079122	6.18%	0.437%
62	10.613	743	746	749	rBV	192889	243332	1.39%	0.098%
63	10.739	754	757	759	rVB	1788491	1991202	11.40%	0.806%
64	10.876	766	769	772	rBV	251031	350136	2.01%	0.142%
65	11.436	815	818	820	rVV	740039	1030963	5.91%	0.417%
66	13.014	954	956	958	rBV	2775108	2702762	15.48%	1.094%
67	14.054	1045	1047	1050	rVB	918332	968577	5.55%	0.392%
68	15.494	1170	1173	1176	rBV	555286	689072	3.95%	0.279%

Sum of corrected areas: 247092943

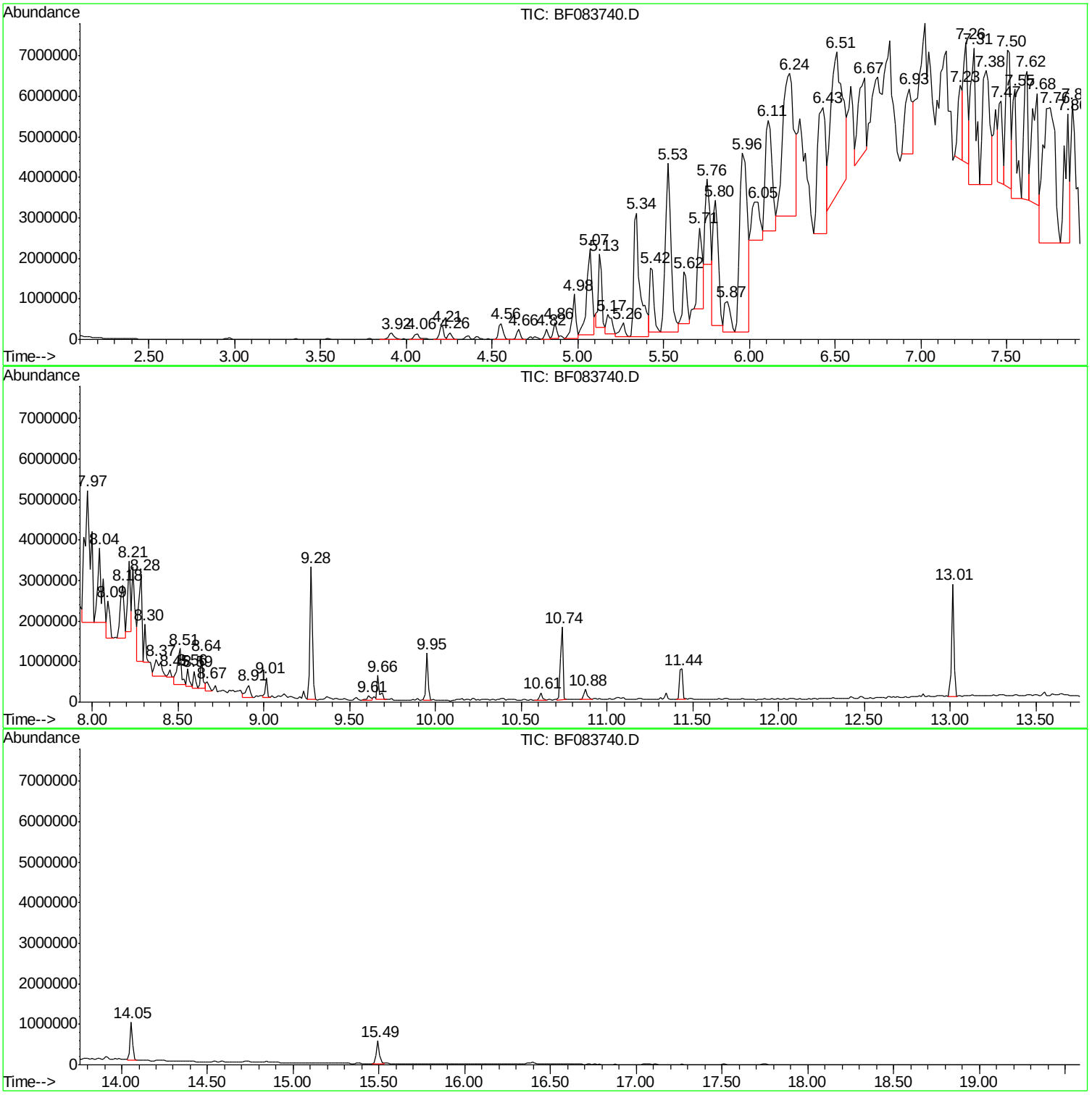
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
Data File : BF083740.D
Acq On : 13 Dec 2015 20:20
Operator : UM/IZ
Sample : G4648-21
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-08(16-18)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
Data File : BF083740.D
Acq On : 13 Dec 2015 20:20
Operator : UM/IZ
Sample : G4648-21
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-08(16-18)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

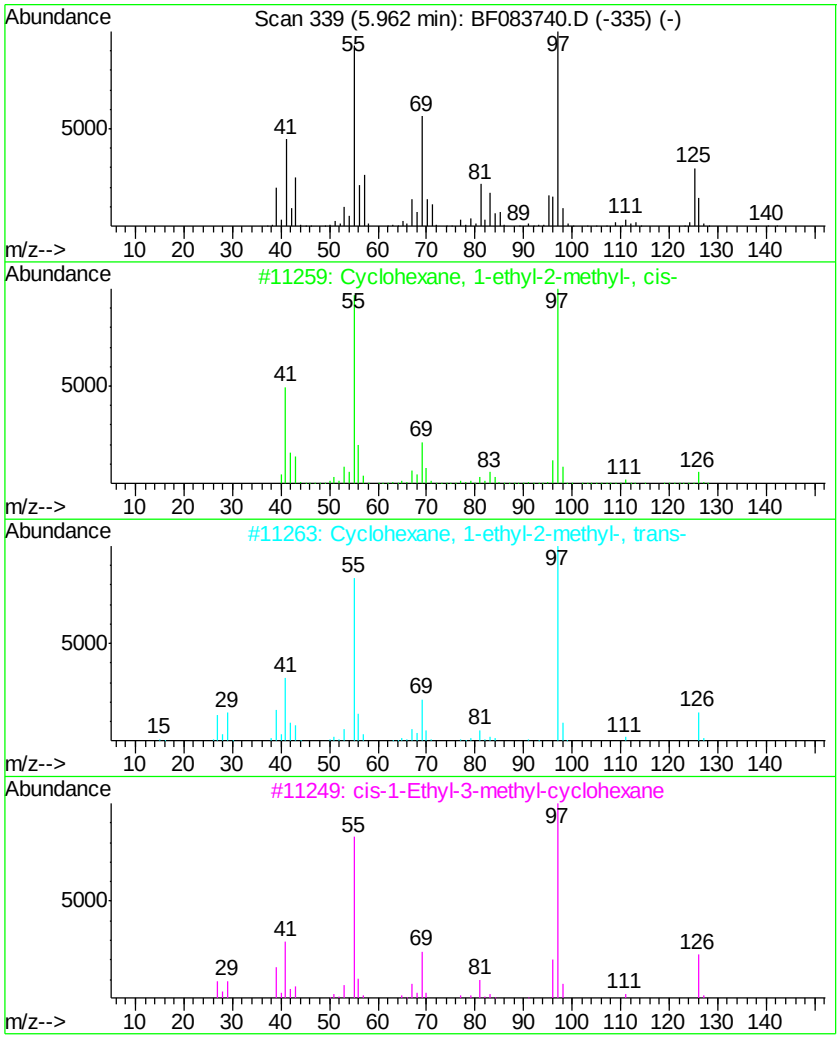
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

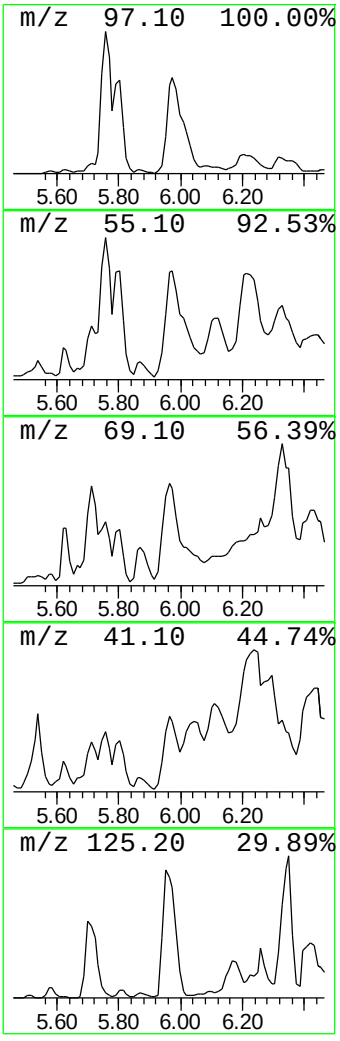
****

Peak Number 1 Cyclohexane, 1-ethyl-2-meth... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.96	51.83 ng	13356500	1,4-Dichlorobenzene-d4	6.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-ethyl-2-methyl-, ...	126	C9H18	004923-77-7	72
2	Cyclohexane, 1-ethyl-2-methyl-, ...	126	C9H18	004923-78-8	58
3	cis-1-Ethyl-3-methyl-cyclohexane	126	C9H18	019489-10-2	53
4	3,5-Dimethyl-3-heptene	126	C9H18	059643-68-4	52
5	Cyclohexane, 1-ethyl-1-methyl-	126	C9H18	004926-90-3	50





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
Data File : BF083740.D
Acq On : 13 Dec 2015 20:20
Operator : UM/IZ
Sample : G4648-21
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-08(16-18)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

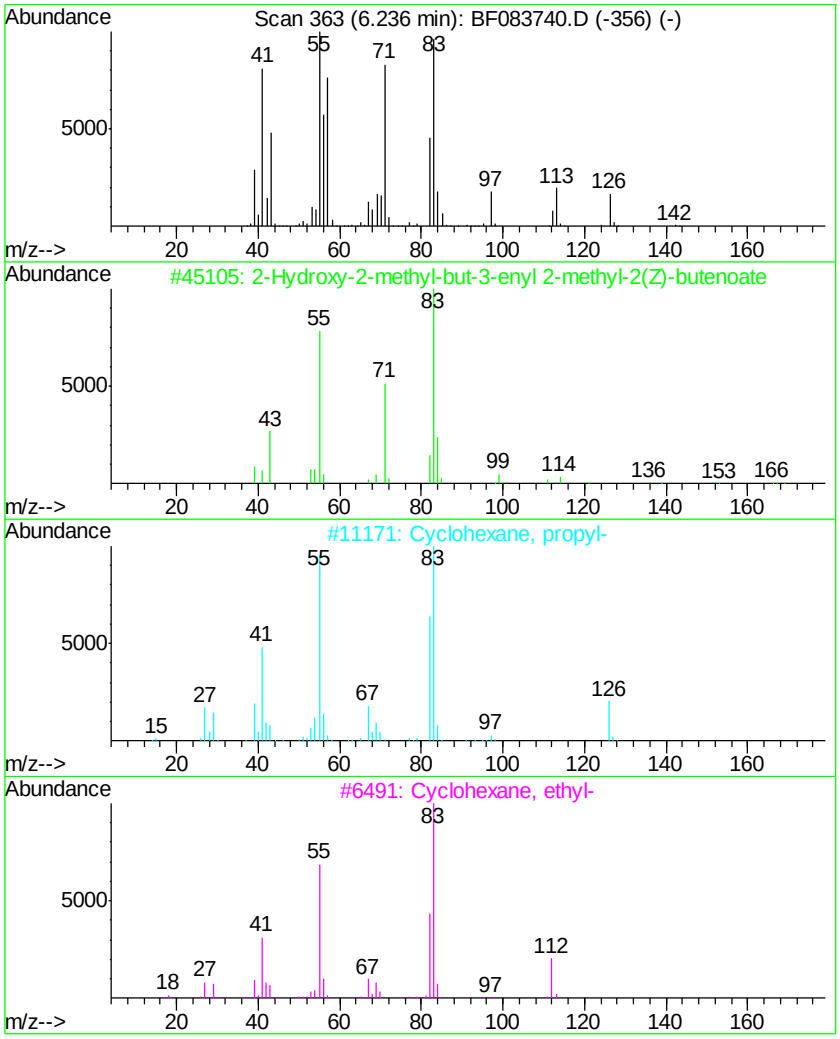
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

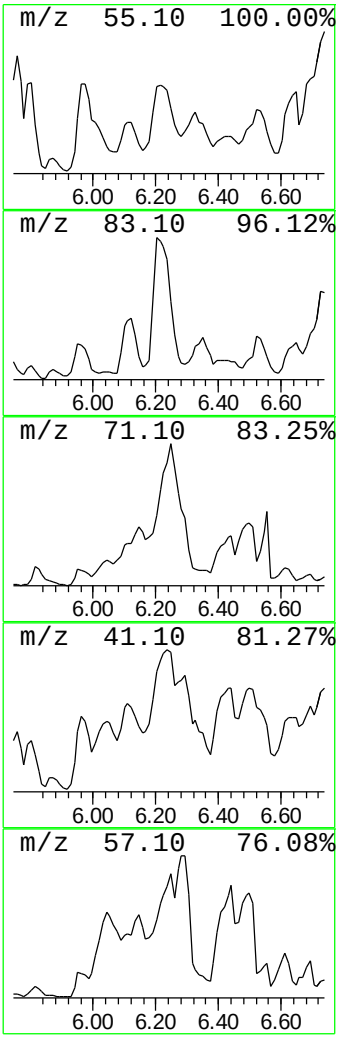
****

Peak Number 2 unknown6.24 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.24	62.15 ng	16015500	1,4-Dichlorobenzene-d4	6.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Hydroxy-2-methyl-but-3-enyl 2-...	184	C10H16O3	080758-67-4	47
2	Cyclohexane, propyl-	126	C9H18	001678-92-8	43
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	38
4	Cyclopentane, 1-methyl-2-(2-prop...	124	C9H16	050746-53-7	30
5	Nonane, 3-methyl-	142	C10H22	005911-04-6	27





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
Data File : BF083740.D
Acq On : 13 Dec 2015 20:20
Operator : UM/IZ
Sample : G4648-21
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-08(16-18)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

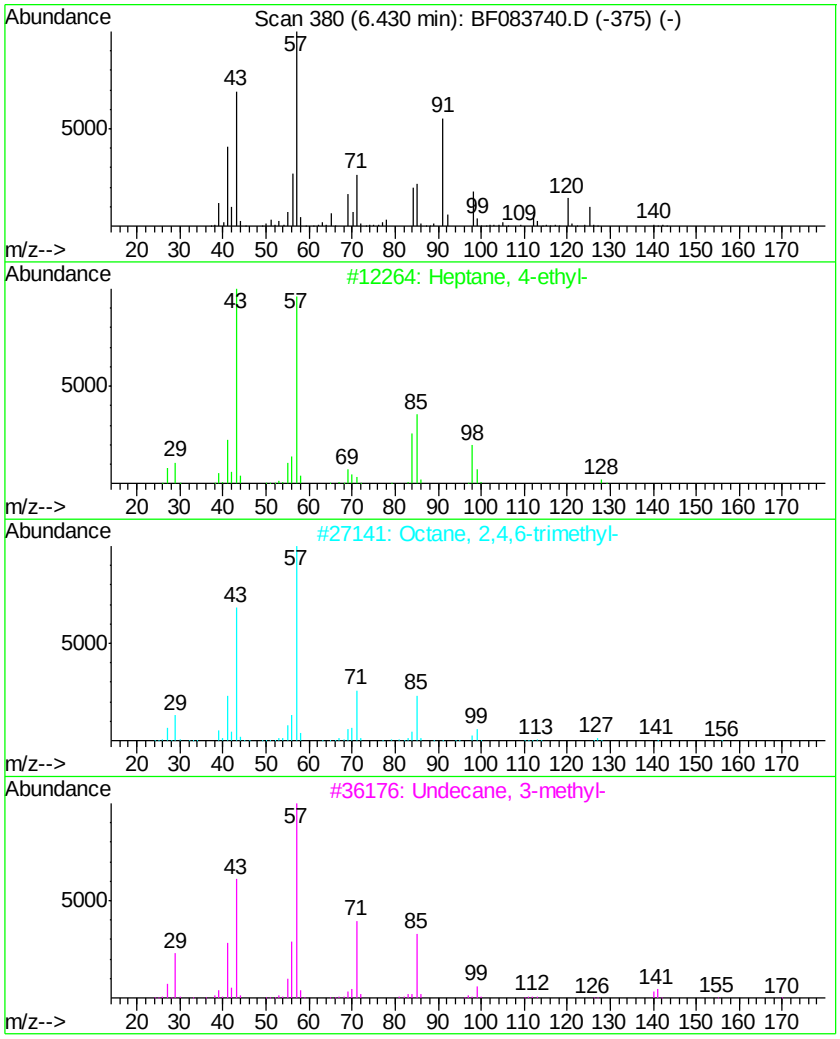
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

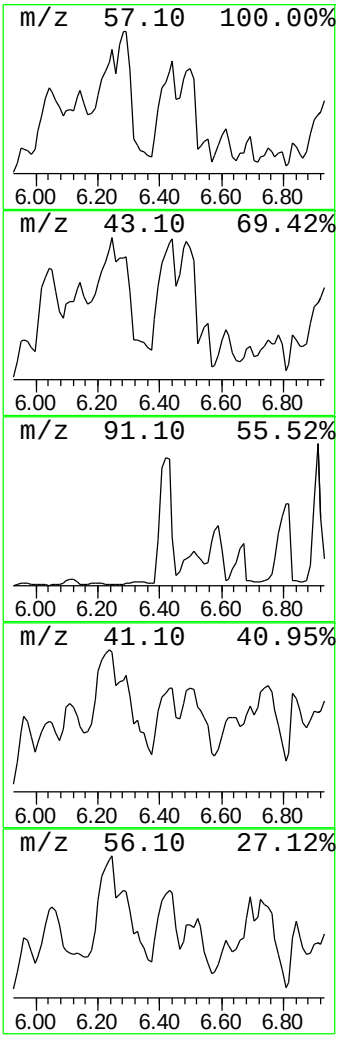
****

Peak Number 3 unknown6.43 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.43	43.16 ng	11123300	1,4-Dichlorobenzene-d4	6.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 4-ethyl-	128	C9H20	002216-32-2	43
2	Octane, 2,4,6-trimethyl-	156	C11H24	062016-37-9	43
3	Undecane, 3-methyl-	170	C12H26	001002-43-3	43
4	Decane, 5-methyl-	156	C11H24	013151-35-4	43
5	Octane, 3,4-dimethyl-	142	C10H22	015869-92-8	43





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
Data File : BF083740.D
Acq On : 13 Dec 2015 20:20
Operator : UM/IZ
Sample : G4648-21
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-08(16-18)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

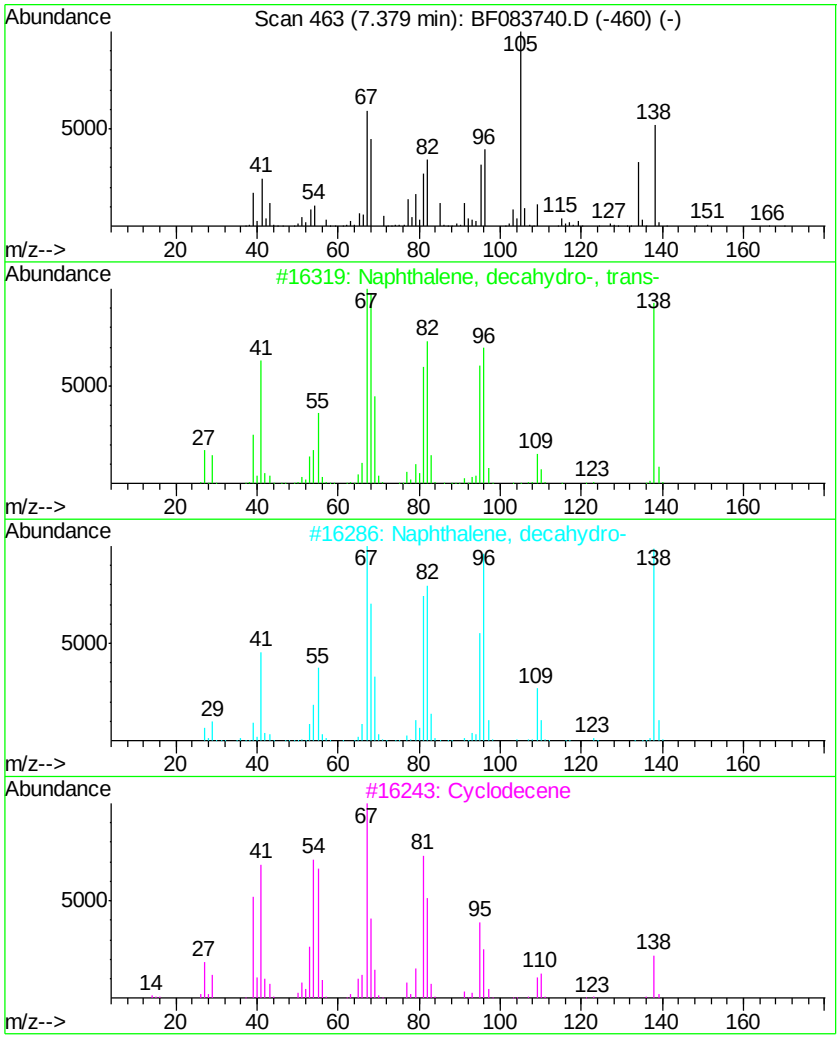
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

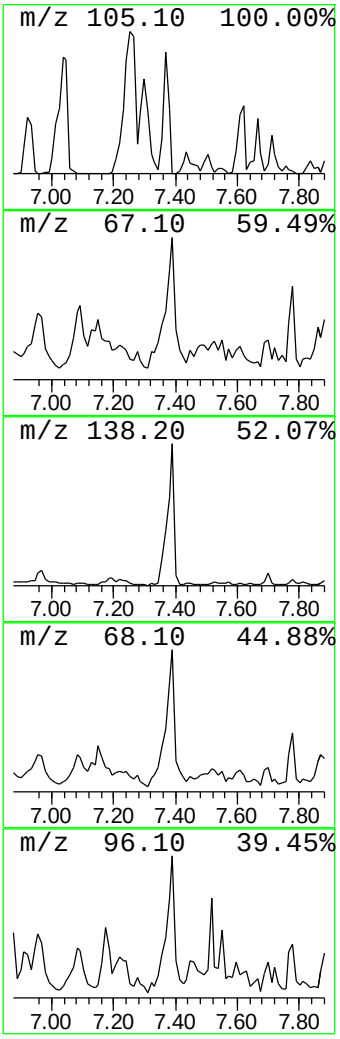
****

Peak Number 4 Naphthalene, decahydro-, tr... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.38	31.34 ng	8076390	1,4-Dichlorobenzene-d4	6.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-, trans-	138	C10H18	000493-02-7	90
2	Naphthalene, decahydro-	138	C10H18	000091-17-8	52
3	Cyclodecene	138	C10H18	003618-12-0	47
4	Cyclohexane, 1,3-dimethyl-2-meth...	124	C9H16	020348-74-7	35
5	Cyclohexane, 1,3-dimethyl-2-meth...	124	C9H16	019781-47-6	35





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
Data File : BF083740.D
Acq On : 13 Dec 2015 20:20
Operator : UM/IZ
Sample : G4648-21
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-08(16-18)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

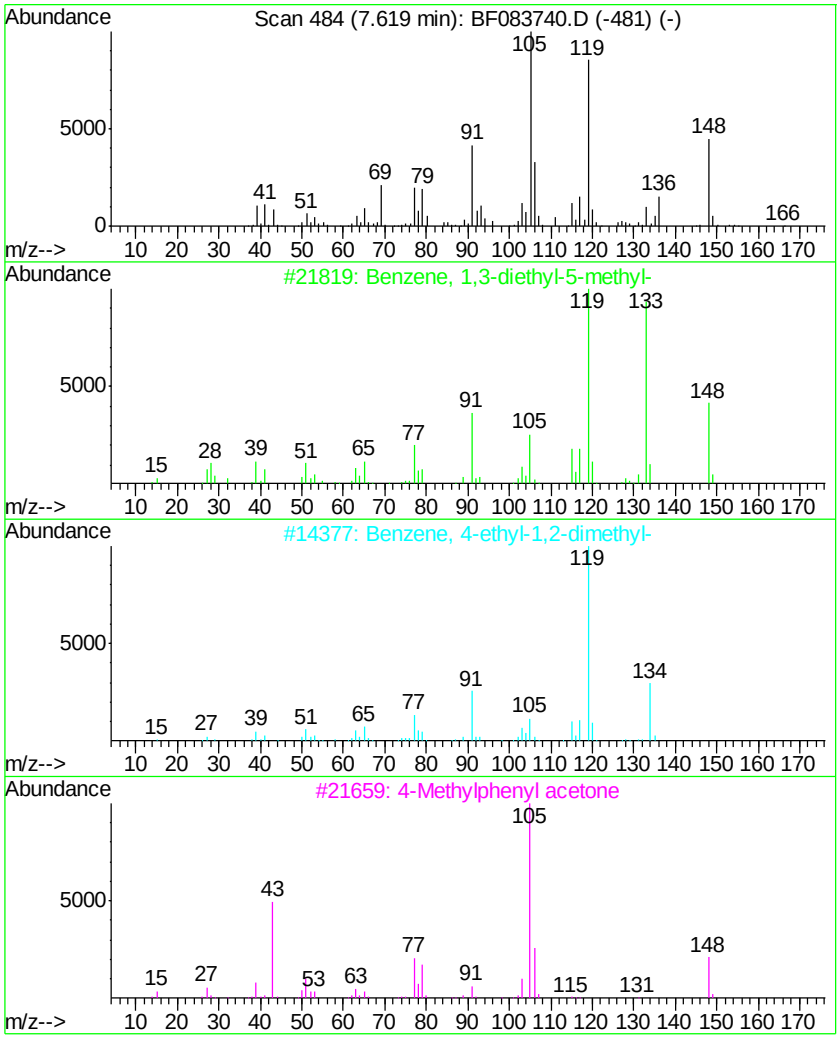
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

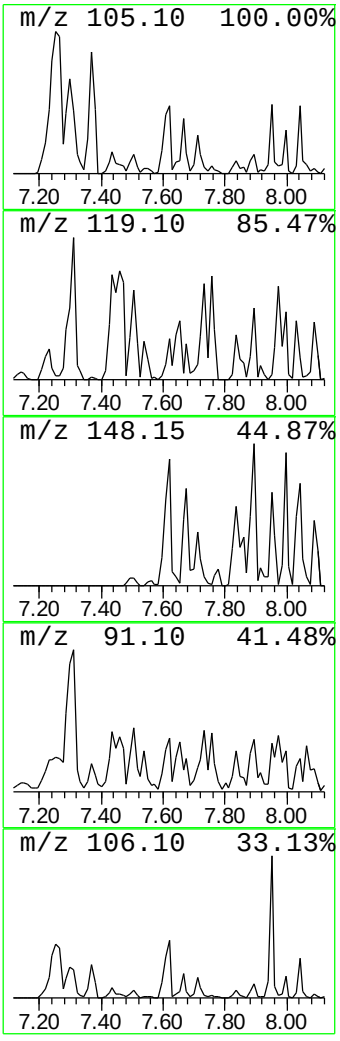
****

Peak Number 5 Benzene, 1,3-diethyl-5-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.62	56.27 ng	5694020	Naphthalene-d8	8.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3-diethyl-5-methyl-	148	C11H16	002050-24-0	58
2	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	49
3	4-Methylphenyl acetone	148	C10H12O	002096-86-8	49
4	Benzene, (1,1-dimethylpropyl)-	148	C11H16	002049-95-8	47
5	Benzeneethanol, 2-methyl-	136	C9H12O	019819-98-8	46





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
Data File : BF083740.D
Acq On : 13 Dec 2015 20:20
Operator : UM/IZ
Sample : G4648-21
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-08(16-18)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

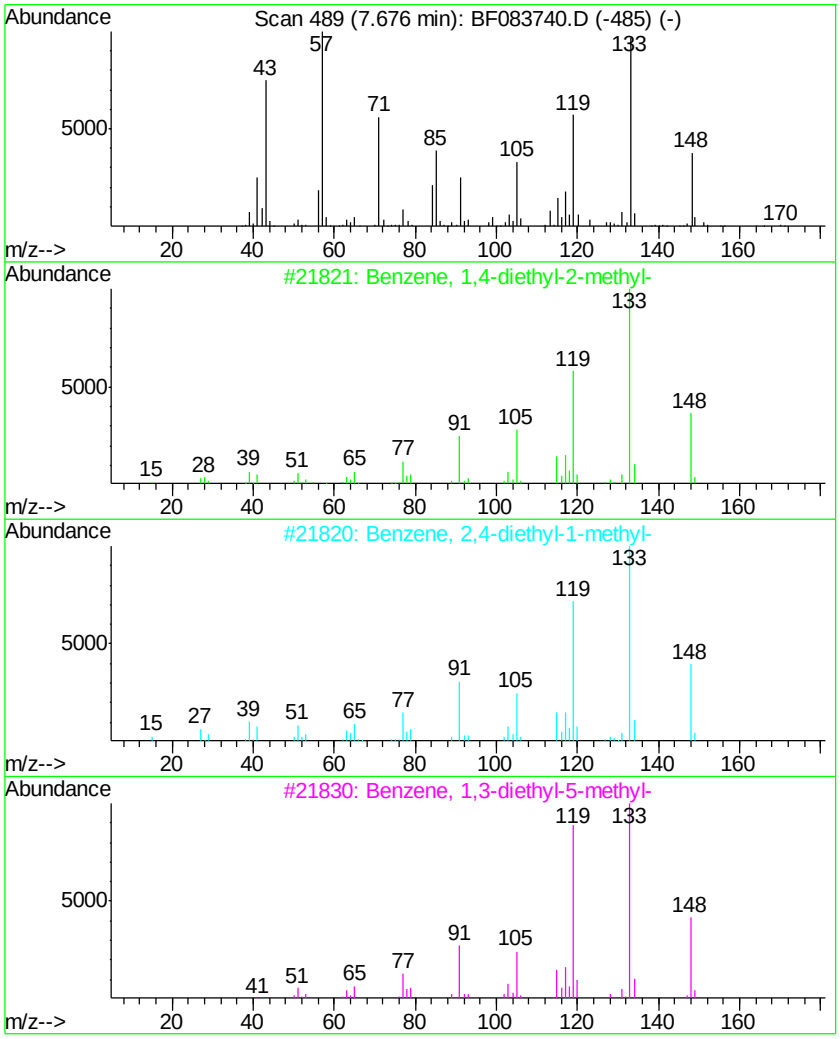
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

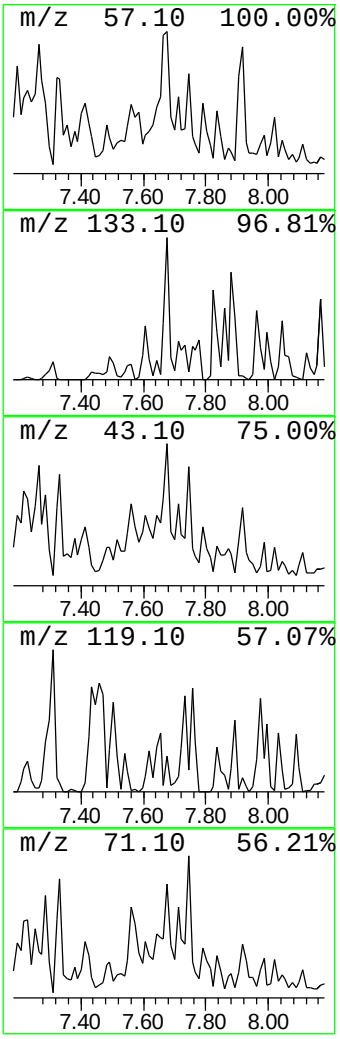
****

Peak Number 6 Benzene, 1,4-diethyl-2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.68	58.56 ng	5925530	Naphthalene-d8	8.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,4-diethyl-2-methyl-	148	C11H16	013632-94-5	78
2	Benzene, 2,4-diethyl-1-methyl-	148	C11H16	001758-85-6	42
3	Benzene, 1,3-diethyl-5-methyl-	148	C11H16	002050-24-0	42
4	Phenol, 2-(2-methyl-2-propenyl)-	148	C10H12O	020944-88-1	41
5	Ethanone, 1-(2,4-dimethylphenyl)-	148	C10H12O	000089-74-7	38





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
Data File : BF083740.D
Acq On : 13 Dec 2015 20:20
Operator : UM/IZ
Sample : G4648-21
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-08(16-18)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

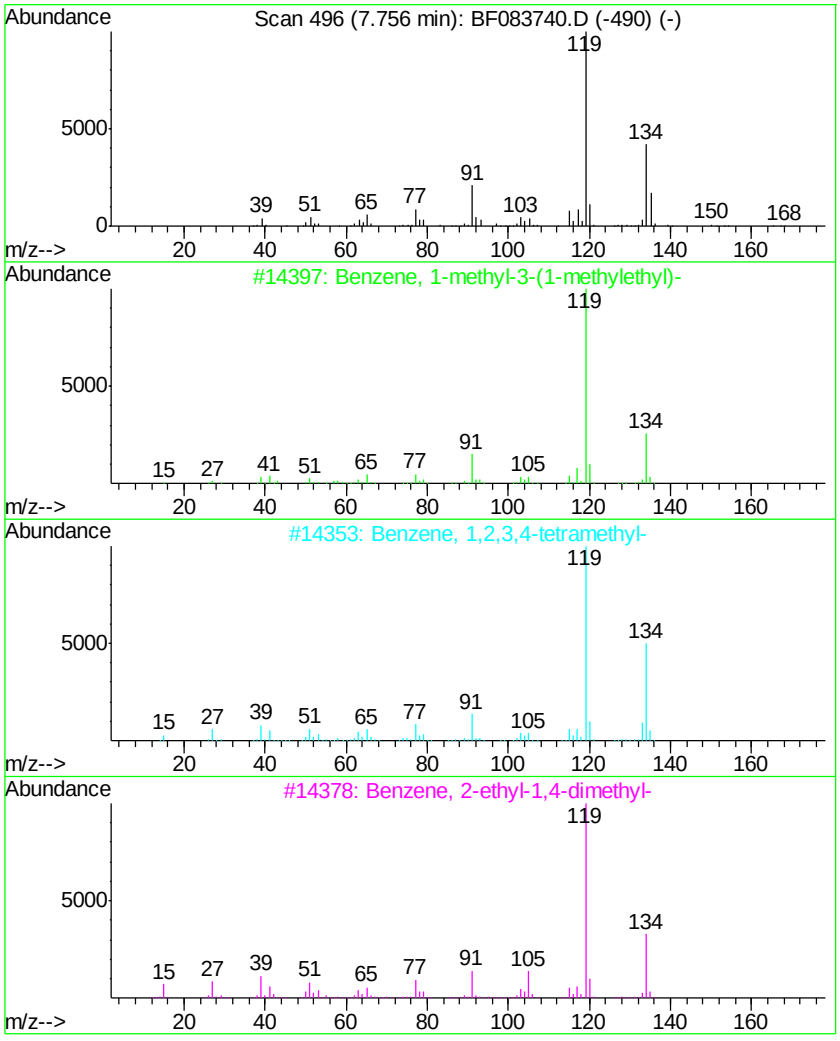
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

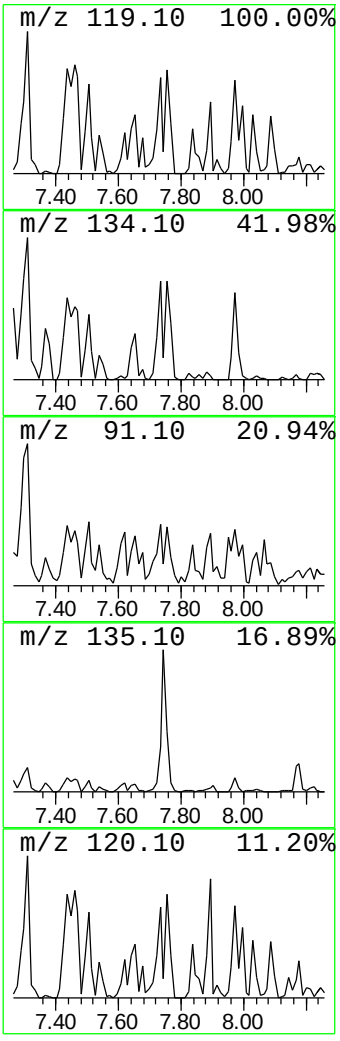
****

Peak Number 7 Benzene, 1-methyl-3-(1-meth... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.76	159.04 ng	16093300	Naphthalene-d8	8.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	91
2	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	90
3	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	90
4	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	90
5	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	90





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
Data File : BF083740.D
Acq On : 13 Dec 2015 20:20
Operator : UM/IZ
Sample : G4648-21
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-08(16-18)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.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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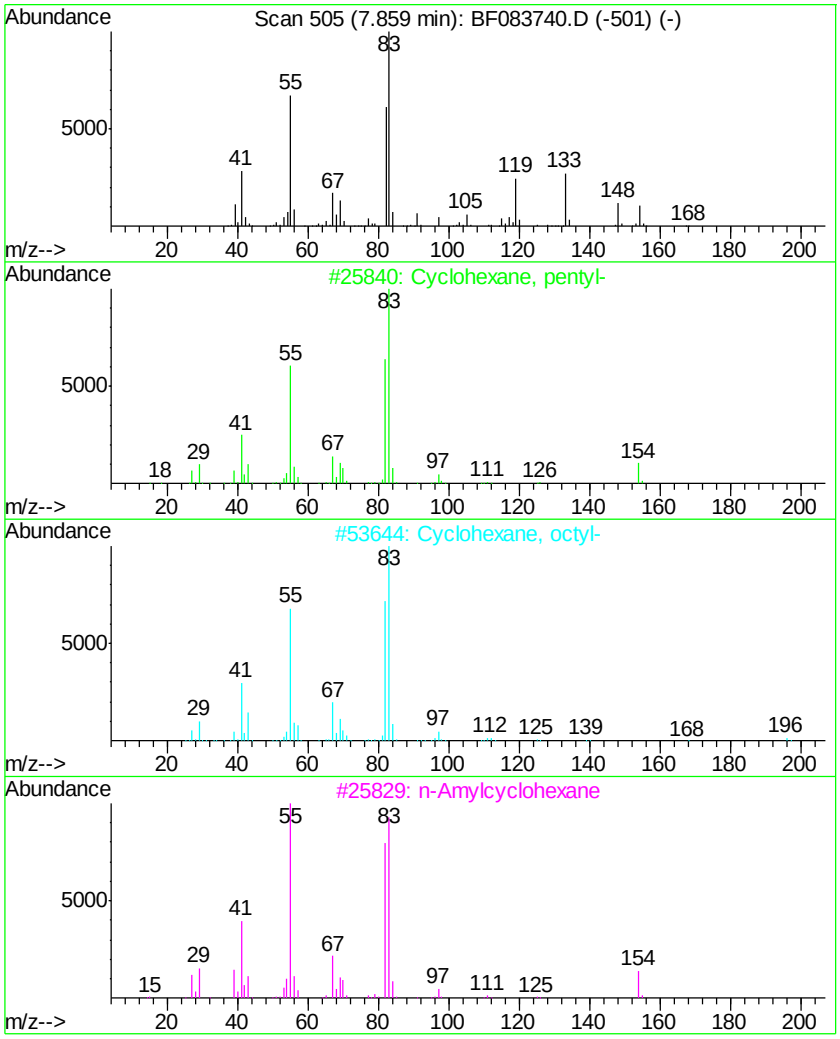
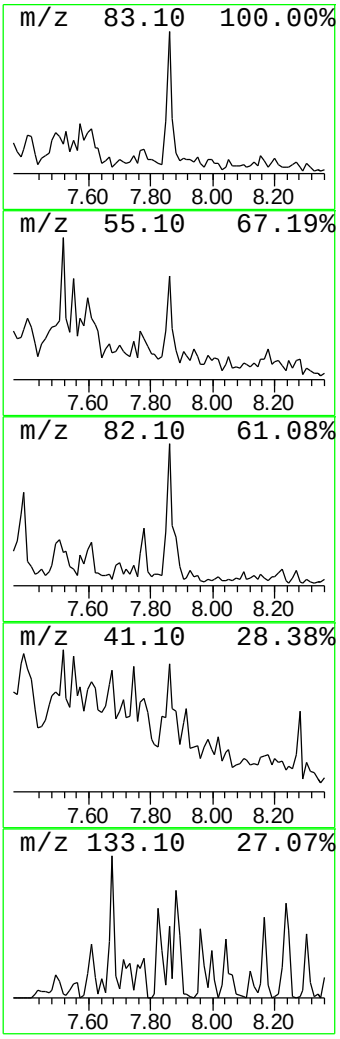
Peak Number 8 Cyclohexane, pentyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.86	62.81 ng	6355870	Naphthalene-d8	8.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, pentyl-	154	C11H22	004292-92-6	70
2	Cyclohexane, octyl-	196	C14H28	001795-15-9	50
3	n-Amylcyclohexane	154	C11H22	029949-27-7	50
4	Cyclohexane, propyl-	126	C9H18	001678-92-8	50
5	Cyclohexane, 2-propenyl-	124	C9H16	002114-42-3	47





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
Data File : BF083740.D
Acq On : 13 Dec 2015 20:20
Operator : UM/IZ
Sample : G4648-21
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-08(16-18)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.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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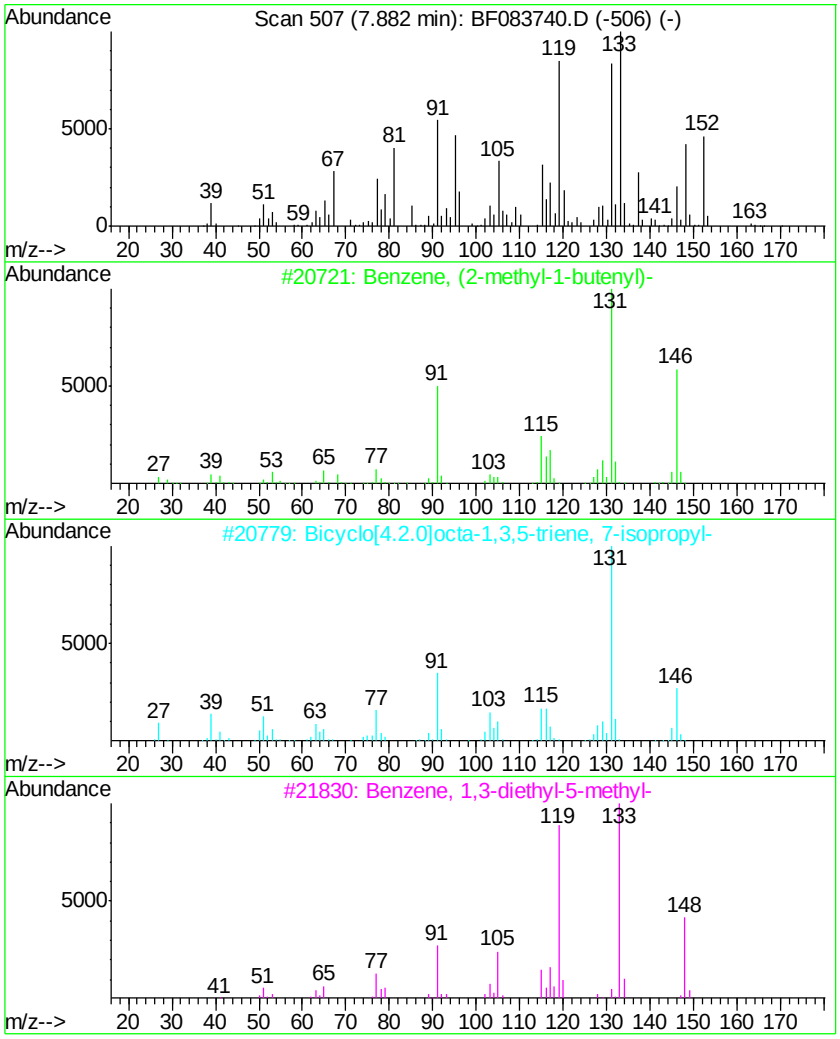
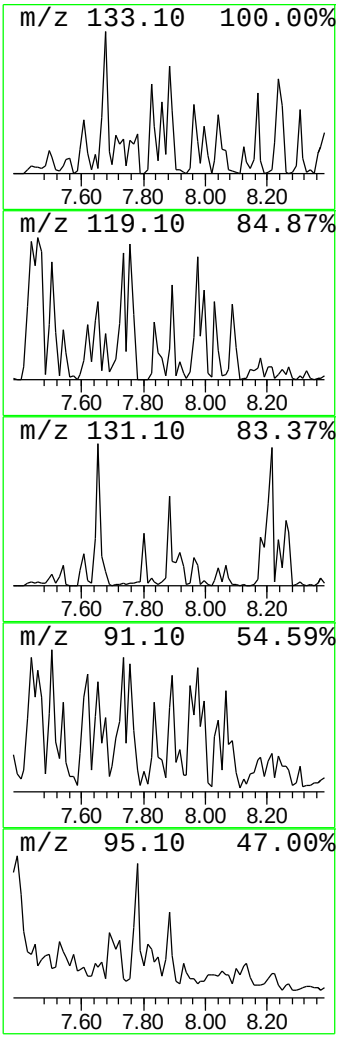
Peak Number 9 Benzene, (2-methyl-1-butenyl)- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.88	62.81 ng	6355630	Naphthalene-d8	8.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	58
2	Bicyclo[4.2.0]octa-1,3,5-triene,...	146	C11H14	027087-54-3	56
3	Benzene, 1,3-diethyl-5-methyl-	148	C11H16	002050-24-0	55
4	Benzene, 2,4-diethyl-1-methyl-	148	C11H16	001758-85-6	55
5	1H-Indene,2,3-dihydro-2,2-dimethyl-	146	C11H14	020836-11-7	53





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
Data File : BF083740.D
Acq On : 13 Dec 2015 20:20
Operator : UM/IZ
Sample : G4648-21
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-08(16-18)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.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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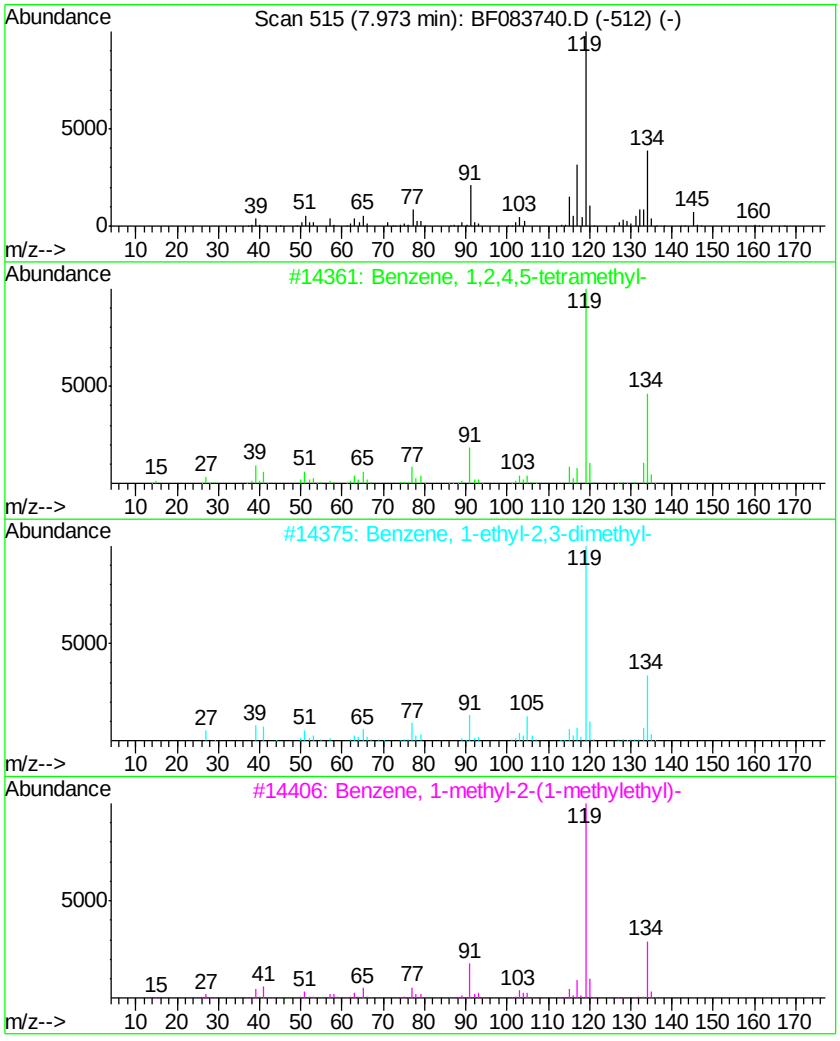
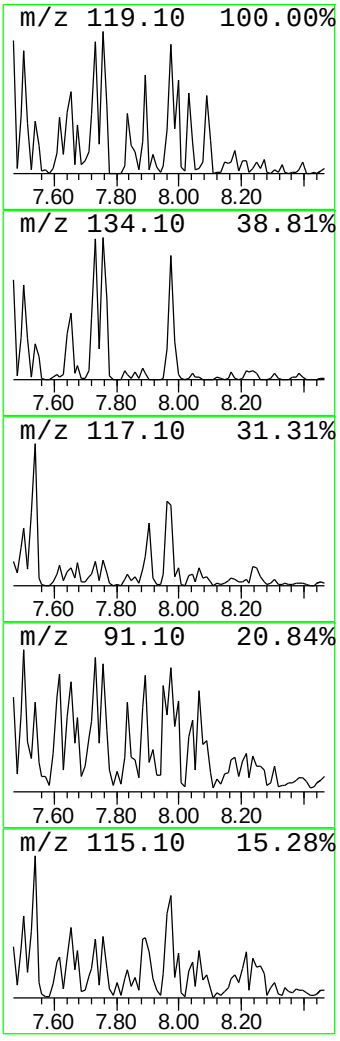
Peak Number 10 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.97	73.16 ng	7402920	Naphthalene-d8	8.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	81
2	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	81
3	Benzene, 1-methyl-2-(1-methyleth...	134	C10H14	000527-84-4	81
4	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	76
5	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	74





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121315\
Data File : BF083740.D
Acq On : 13 Dec 2015 20:20
Operator : UM/IZ
Sample : G4648-21
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-08(16-18)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Cyclohexane, 1-et...	5.96	51.8	ng	13356500	1	6.96	5153990	20.0
unknown6.24	6.24	62.1	ng	16015500	1	6.96	5153990	20.0
unknown6.43	6.43	43.2	ng	11123300	1	6.96	5153990	20.0
Naphthalene, deca...	7.38	31.3	ng	8076390	1	6.96	5153990	20.0
Benzene, 1,3-diet...	7.62	56.3	ng	5694020	2	8.21	2023750	20.0
Benzene, 1,4-diet...	7.68	58.6	ng	5925530	2	8.21	2023750	20.0
Benzene, 1-methyl...	7.76	159.0	ng	16093300	2	8.21	2023750	20.0
Cyclohexane, pentyl-	7.86	62.8	ng	6355870	2	8.21	2023750	20.0
Benzene, (2-methy...	7.88	62.8	ng	6355630	2	8.21	2023750	20.0
Benzene, 1,2,4,5-...	7.97	73.2	ng	7402920	2	8.21	2023750	20.0