LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122216\
Data File : BF091890.D
Acq On : 22 Dec 2016 17:08
Operator : UM/SJ
Sample : H6182-08
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-52(13-15)-121916

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-BF122116.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	3.927	154	161	163	rBV	146633	294945	1.16%	0.082%
2	4.293	190	193	198	rVB2	162614	324765	1.27%	0.090%
3	4.750	228	233	235	rBV	571183	770076	3.02%	0.213%
4	4.841	235	241	244	rVV3	934458	1762217	6.90%	0.488%
5	4.933	244	249	252	rVV2	1355353	3271274	12.82%	0.905%
6	5.047	255	259	263	rVB2	188501	314281	1.23%	0.087%
7	5.127	263	266	267	rBV	911852	1352942	5.30%	0.374%
8	5.150	267	268	274	rVB3	256863	575740	2.26%	0.159%
9	5.298	278	281	283	rBV2	172711	279385	1.09%	0.077%
10	5.413	288	291	293	rBV	3737864	5275246	20.67%	1.460%
11	5.493	296	298	301	rBV	1057152	1734725	6.80%	0.480%
12	5.538	301	302	304	rVB	1181927	1360169	5.33%	0.376%
13	5.584	304	306	310	rVB2	1142673	1797543	7.04%	0.497%
14	5.653	310	312	315	rBV	352884	529654	2.08%	0.147%
15	5.756	317	321	323	rBV2	1876616	2942275	11.53%	0.814%
16	5.813	323	326	327	rBV	679304	1243838	4.87%	0.344%
17	5.893	330	333	336	rVB	2529749	4029730	15.79%	1.115%
18	5.961	336	339	340	rBV2	1043187	1930884	7.57%	0.534%
19	6.007	340	343	346	rBV2	4421111	7831524	30.69%	2.167%
20	6.064	346	348	349	rBV	1582152	2264747	8.87%	0.627%
21	6.087	349	350	356	rVB3	1261260	3684528	14.44%	1.020%
22	6.190	356	359	365	rBV3	2047118	5365590	21.02%	1.485%
23	6.281	365	367	372	rBV2	3149023	7477064	29.30%	2.069%
24	6.373	372	375	376	rBV	821729	1623648	6.36%	0.449%
25	6.419	376	379	381	rBV3	1284644	3379262	13.24%	0.935%
26	6.464	381	383	384	rVB	3489392	4007405	15.70%	1.109%
27	6.510	384	387	388	rBV	2473698	5015581	19.65%	1.388%
28	6.556	388	391	393	rVB3	4322966	7602295	29.79%	2.104%
29	6.613	393	396	399	rBV3	1520807	2856411	11.19%	0.791%
30	6.727	401	406	407	rBV2	2265634	5906498	23.14%	1.635%
31	6.761	407	409	413	rVB4	2009220	5155426	20.20%	1.427%
32	6.830	413	415	417	rBV	1303061	2656480	10.41%	0.735%
33	6.921	419	423	428	rVB4	6901027	17968545	70.40%	4.973%
34	7.047	428	434	437	rBV3	2863119	9148132	35.84%	2.532%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122216\
Data File : BF091890.D
Acq On : 22 Dec 2016 17:08
Operator : UM/SJ
Sample : H6182-08
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-52(13-15)-121916

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-BF122116.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	7.127	437	441	442	rBV4	1253941	3001928	11.76%	0.831%
36	7.173	442	445	451	rVB2	3293875	8126839	31.84%	2.249%
37	7.322	453	458	464	rBV7	6840885	25521762	100.00%	7.063%
38	7.424	464	467	470	rVB2	3775042	6656364	26.08%	1.842%
39	7.504	470	474	475	rBV3	1531078	3979839	15.59%	1.101%
40	7.584	475	481	484	rVB4	4175009	13038626	51.09%	3.609%
41	7.699	487	491	497	rBV5	4983401	16300483	63.87%	4.511%
42	7.813	498	501	506	rVB2	4152856	10096203	39.56%	2.794%
43	7.893	506	508	510	rBV3	2153893	3959440	15.51%	1.096%
44	7.939	510	512	513	rBV	1547467	2121111	8.31%	0.587%
45	8.282	537	542	546	rBV6	2767825	11153957	43.70%	3.087%
46	8.373	546	550	552	rVB4	3198099	7502419	29.40%	2.076%
47	8.522	560	563	567	rVB	5779629	11913144	46.68%	3.297%
48	8.590	567	569	571	rBV2	1921973	2693397	10.55%	0.745%
49	8.990	602	604	606	rVB3	3501697	4865398	19.06%	1.347%
50	9.116	611	615	616	rVV2	6355824	9808685	38.43%	2.715%
51	9.150	616	618	619	rVB	2238452	2512069	9.84%	0.695%
52	9.253	623	627	628	rBV2	2878151	6743080	26.42%	1.866%
53	9.356	634	636	638	rVB2	2537498	3443102	13.49%	0.953%
54	9.425	639	642	644	rVV	3469355	5098075	19.98%	1.411%
55	9.493	644	648	649	rVV3	3491849	7214963	28.27%	1.997%
56	9.562	652	654	655	rVB	6530429	7709070	30.21%	2.134%
57	9.733	667	669	671	rVB3	2113871	2253541	8.83%	0.624%
58	9.802	673	675	678	rVV3	2157686	5276147	20.67%	1.460%
59	9.859	678	680	681	rVV2	2064290	2513701	9.85%	0.696%
60	9.927	684	686	688	rVB	2760879	3479845	13.63%	0.963%
61	9.973	688	690	692	rBV3	1156175	2627902	10.30%	0.727%
62	10.019	692	694	696	rVV2	2693526	3694239	14.47%	1.022%
63	10.065	696	698	702	rVB3	3231922	6343146	24.85%	1.756%
64	10.133	702	704	706	rBV2	2222412	2839204	11.12%	0.786%
65	10.225	710	712	714	rVB2	1695168	2603035	10.20%	0.720%
66	10.270	714	716	717	rBV	919827	939864	3.68%	0.260%
67	10.350	721	723	730	rVB7	1577890	3823647	14.98%	1.058%
68	10.465	730	733	735	rVB	4141879	4999972	19.59%	1.384%
69	10.510	735	737	739	rVB2	924201	1435629	5.63%	0.397%
70	10.602	743	745	746	rVB	1369373	1574063	6.17%	0.436%
71	10.728	753	756	758	rVB	3613701	5123058	20.07%	1.418%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122216\
Data File : BF091890.D
Acq On : 22 Dec 2016 17:08
Operator : UM/SJ
Sample : H6182-08
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-52(13-15)-121916

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-BF122116.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	10.922	772	773	777	rVB2	557318	658564	2.58%	0.182%
73	11.036	781	783	786	rVB4	294313	562492	2.20%	0.156%
74	11.185	793	796	798	rVB2	1062449	1490818	5.84%	0.413%
75	11.276	802	804	808	rBV2	878881	1013038	3.97%	0.280%
76	11.528	824	826	828	rBV3	275108	429431	1.68%	0.119%
77	11.608	831	833	836	rVB4	176544	315368	1.24%	0.087%
78	11.665	836	838	840	rBV	532601	545489	2.14%	0.151%
79	11.768	845	847	849	rBV2	324454	429668	1.68%	0.119%
80	11.859	853	855	857	rBV	653998	791489	3.10%	0.219%
81	11.962	862	864	867	rBV3	403612	716519	2.81%	0.198%
82	12.019	867	869	871	rBV3	251378	437517	1.71%	0.121%
83	12.053	871	872	875	rVB	949818	1111986	4.36%	0.308%
84	12.122	875	878	883	rVB4	284660	707884	2.77%	0.196%
85	12.213	883	886	888	rBV2	319921	538972	2.11%	0.149%
86	12.293	891	893	895	rBV	687047	881430	3.45%	0.244%
87	12.396	900	902	905	rVB	262026	300014	1.18%	0.083%
88	12.522	911	913	915	rVB	350947	448393	1.76%	0.124%
89	12.819	938	939	941	rBV	292859	489246	1.92%	0.135%
90	12.865	941	943	945	rVB	2657357	3065286	12.01%	0.848%
91	13.345	983	985	988	rVB	393650	377163	1.48%	0.104%
92	13.905	1032	1034	1036	rBV	736717	703402	2.76%	0.195%
93	15.311	1154	1157	1159	rBV	446313	585257	2.29%	0.162%

Sum of corrected areas: 361319198

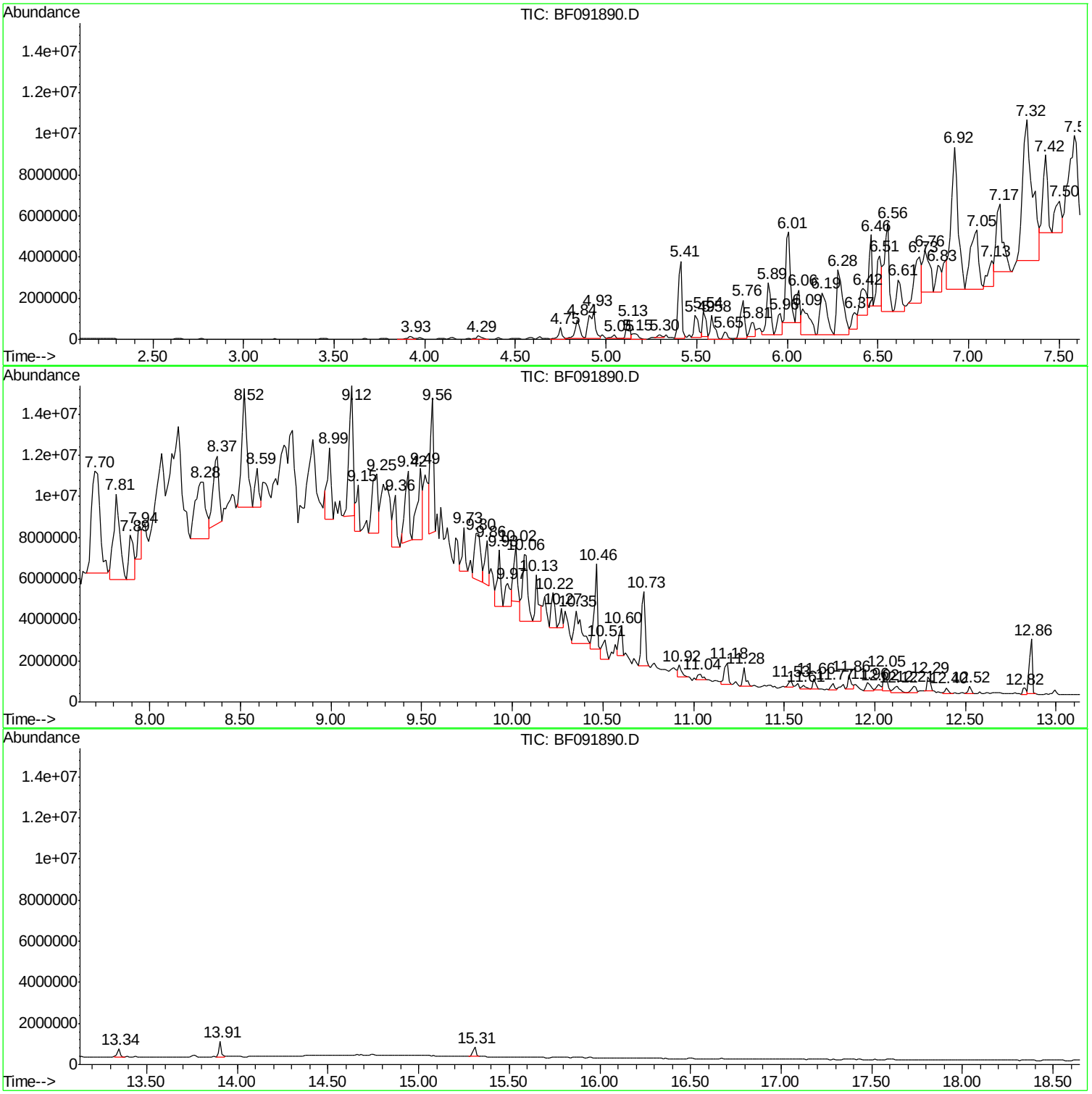
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122216\
Data File : BF091890.D
Acq On : 22 Dec 2016 17:08
Operator : UM/SJ
Sample : H6182-08
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-52(13-15)-121916

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.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\BF122216\
Data File : BF091890.D
Acq On : 22 Dec 2016 17:08
Operator : UM/SJ
Sample : H6182-08
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-52(13-15)-121916

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

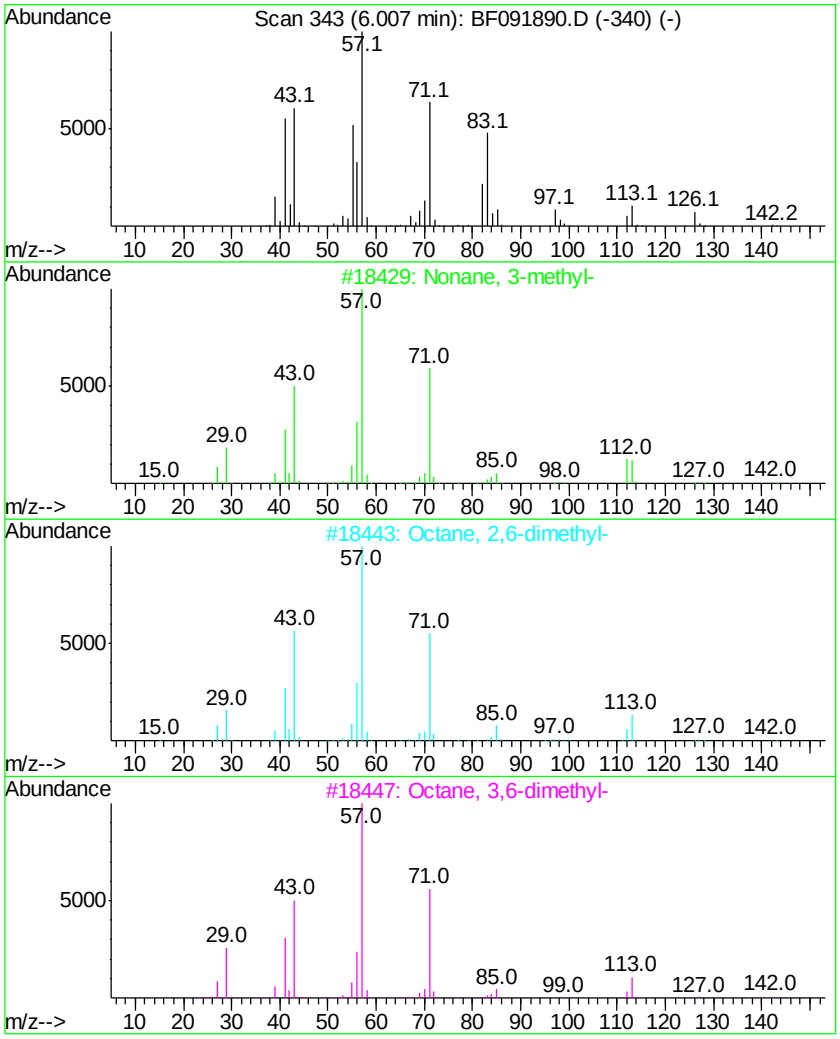
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

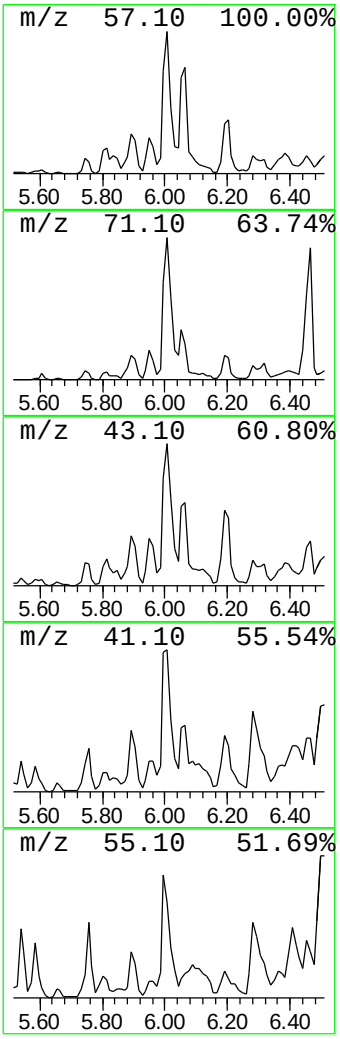
****

Peak Number 1 Nonane, 3-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.01	30.38 ng	7831520	1,4-Dichlorobenzene-d4	6.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane, 3-methyl-	142	C10H22	005911-04-6	50
2	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	46
3	Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	43
4	Octane, 2,3,7-trimethyl-	156	C11H24	062016-34-6	38
5	Heptane, 3-ethyl-5-methyl-	142	C10H22	052896-90-9	35





Data Path : Z:\HPCHEM1\BNA F\DATA\BF122216\
Data File : BF091890.D
Acq On : 22 Dec 2016 17:08
Operator : UM/SJ
Sample : H6182-08
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-52(13-15)-121916

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

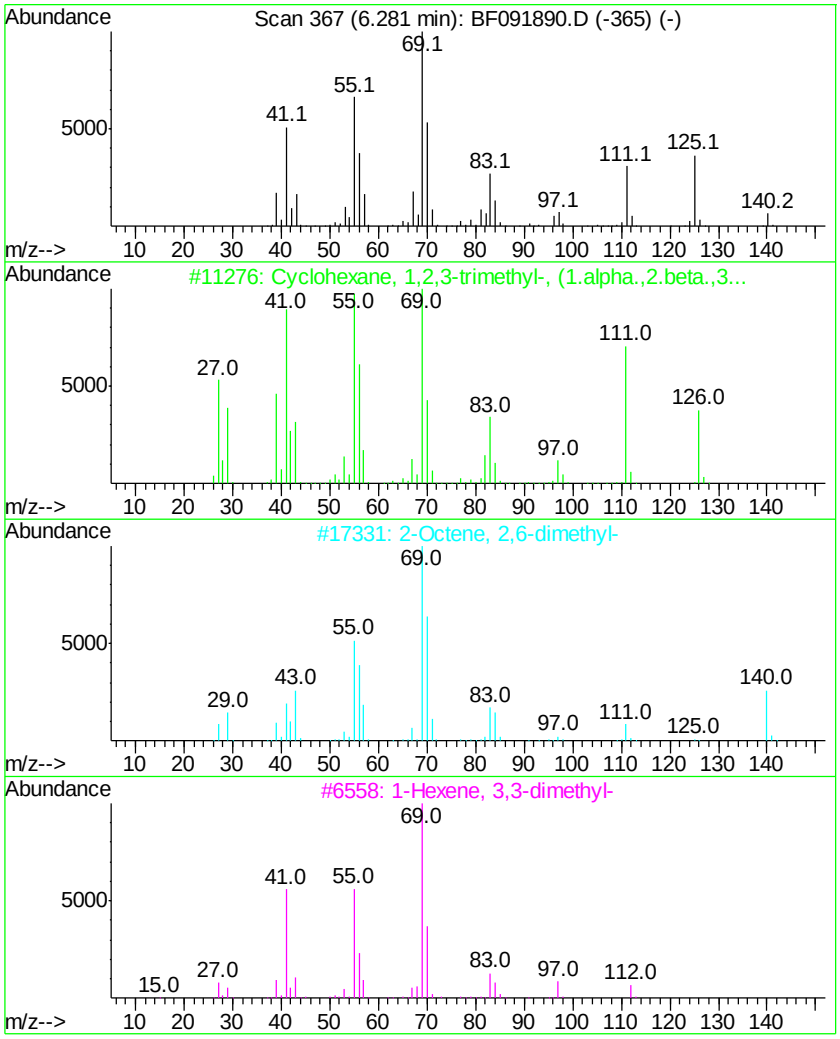
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

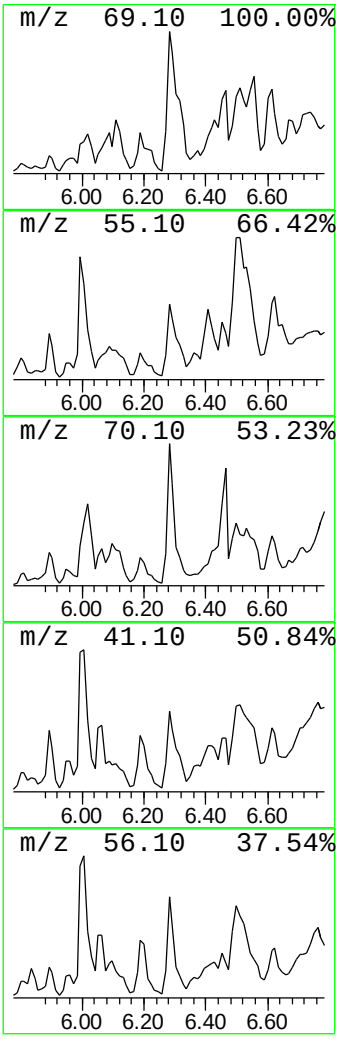
****

Peak Number 2 Cyclohexane, 1,2,3-trimethy... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.28	29.01 ng	7477060	1,4-Dichlorobenzene-d4	6.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2,3-trimethyl-, (...	126	C9H18	001678-81-5	64
2	2-Octene, 2,6-dimethyl-	140	C10H20	004057-42-5	64
3	1-Hexene, 3,3-dimethyl-	112	C8H16	003404-77-1	52
4	1-Hexene, 3,3,5-trimethyl-	126	C9H18	013427-43-5	50
5	Cyclooctane, butyl-	168	C12H24	016538-93-5	50





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122216\
Data File : BF091890.D
Acq On : 22 Dec 2016 17:08
Operator : UM/SJ
Sample : H6182-08
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-52(13-15)-121916

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

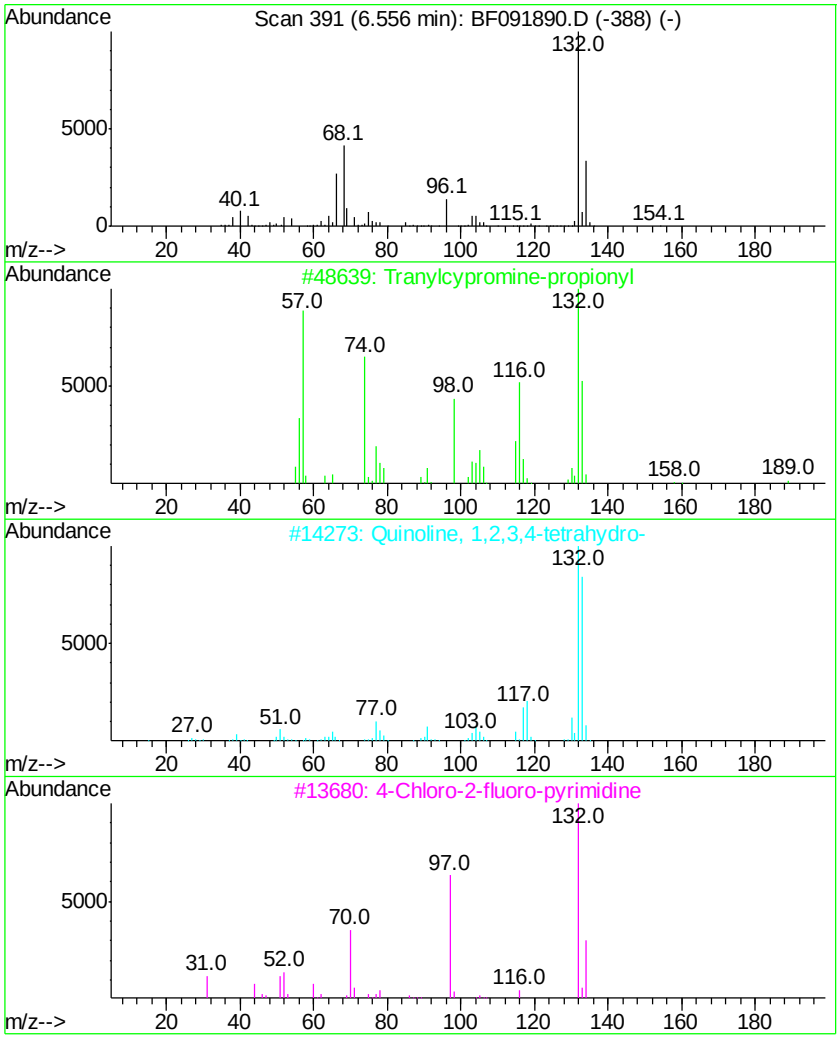
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

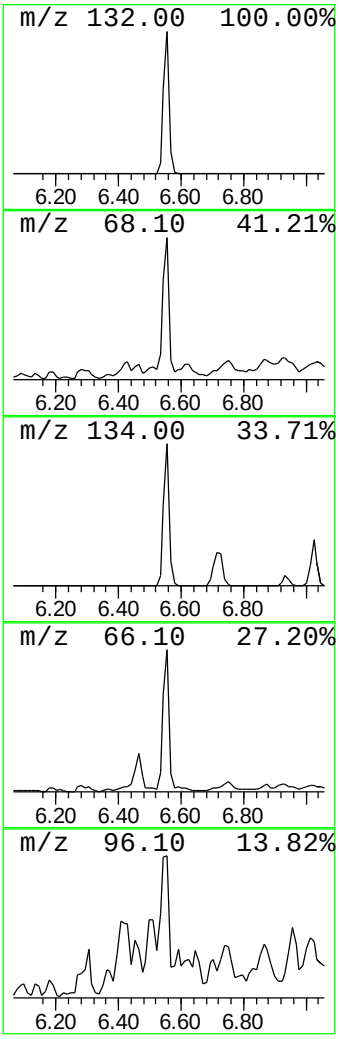
****

Peak Number 3 unknown6.56 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.56	29.49 ng	7602300	1,4-Dichlorobenzene-d4	6.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
2	Quinoline, 1,2,3,4-tetrahydro-	133	C9H11N	000635-46-1	10
3	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9
4	1-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-59-9	9
5	3H-1,2-Dithiol-3-one, 5-methyl-	132	C4H4OS2	003620-08-4	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF122216\
Data File : BF091890.D
Acq On : 22 Dec 2016 17:08
Operator : UM/SJ
Sample : H6182-08
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-52(13-15)-121916

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

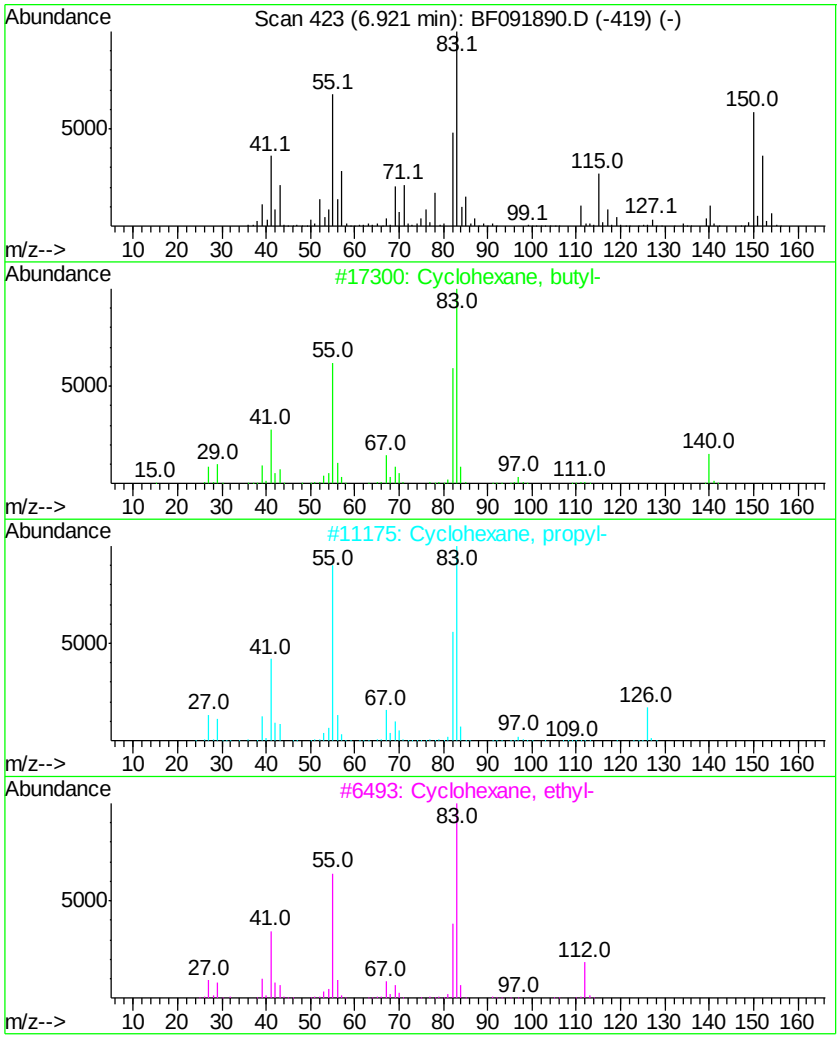
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

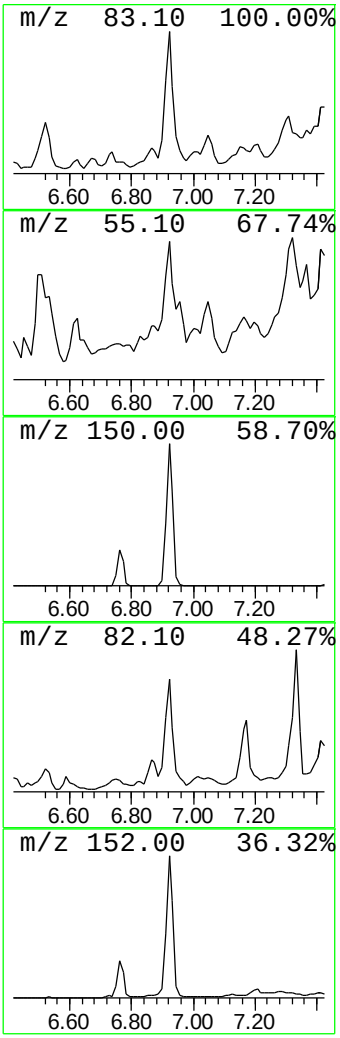
****

Peak Number 4 unknown6.92 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.92	69.71 ng	17968500	1,4-Dichlorobenzene-d4	6.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, butyl-	140	C10H20	001678-93-9	43
2	Cyclohexane, propyl-	126	C9H18	001678-92-8	38
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	38
4	1,4-Dichlorobenzene-D4	150	C6D4Cl2	003855-82-1	35
5	Cyclohexane, octyl-	196	C14H28	001795-15-9	32





Data Path : Z:\HPCHEM1\BNA F\DATA\BF122216\
Data File : BF091890.D
Acq On : 22 Dec 2016 17:08
Operator : UM/SJ
Sample : H6182-08
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-52(13-15)-121916

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

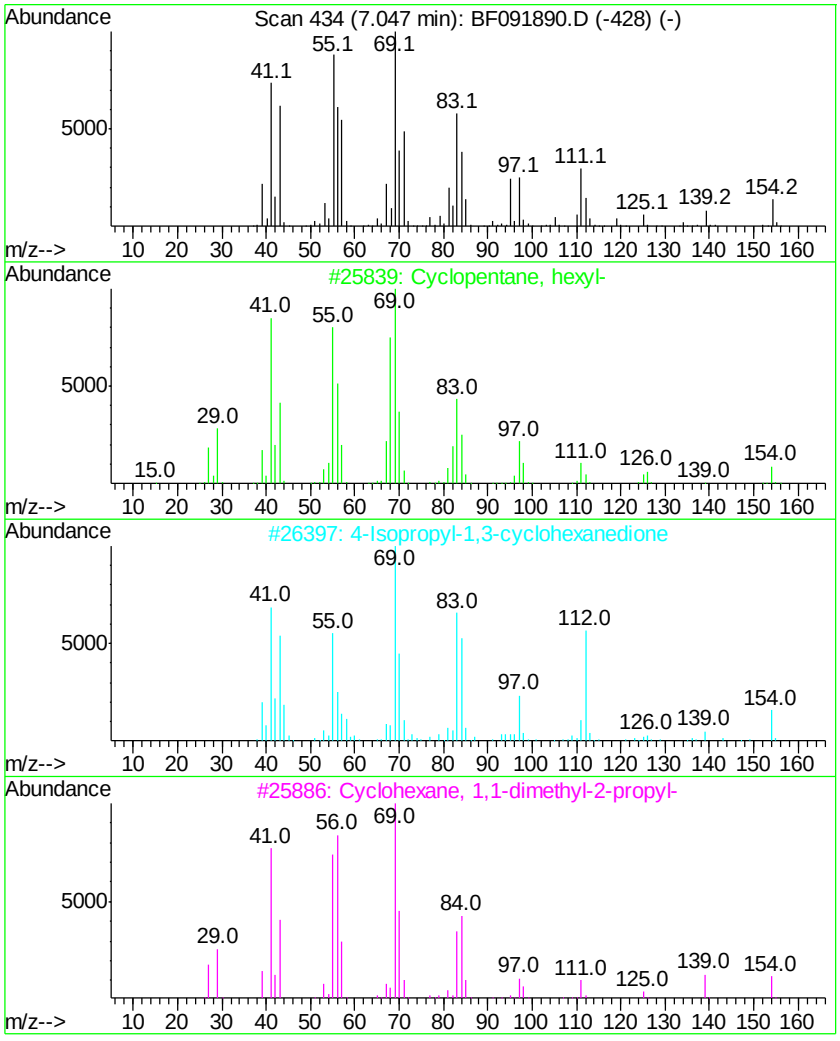
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

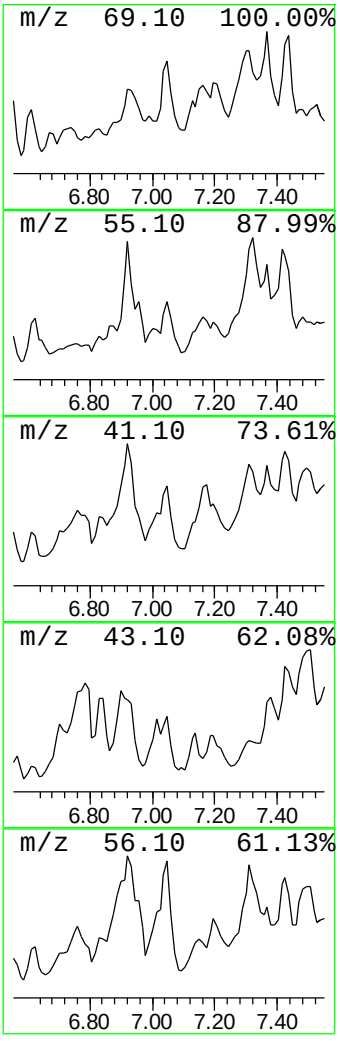
****

Peak Number 5 Cyclopentane, hexyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.05	35.49 ng	9148130	1,4-Dichlorobenzene-d4	6.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, hexyl-	154	C11H22	004457-00-5	76
2	4-Isopropyl-1,3-cyclohexanedione	154	C9H14O2	062831-62-3	58
3	Cyclohexane, 1,1-dimethyl-2-propyl-	154	C11H22	081983-71-3	58
4	1-Ethyl-2,2,6-trimethylcyclohexane	154	C11H22	071186-27-1	58
5	Cyclopentane, propyl-	112	C8H16	002040-96-2	49





Data Path : Z:\HPCHEM1\BNA F\DATA\BF122216\
Data File : BF091890.D
Acq On : 22 Dec 2016 17:08
Operator : UM/SJ
Sample : H6182-08
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-52(13-15)-121916

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

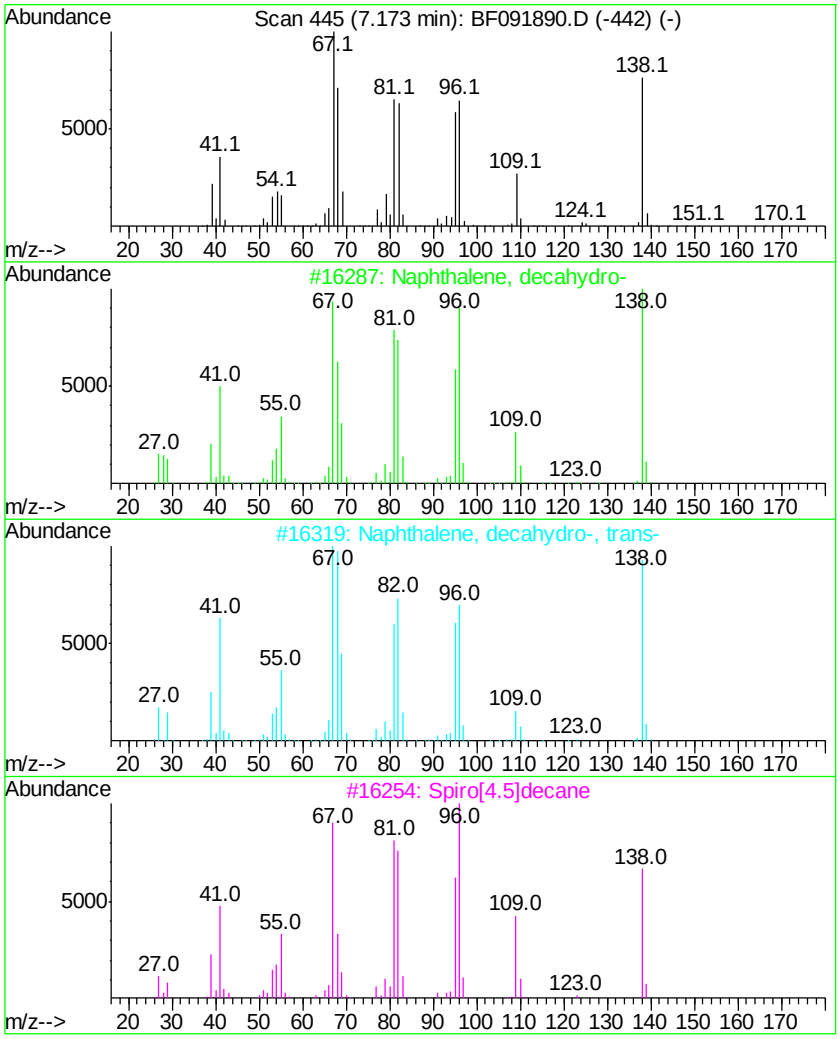
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

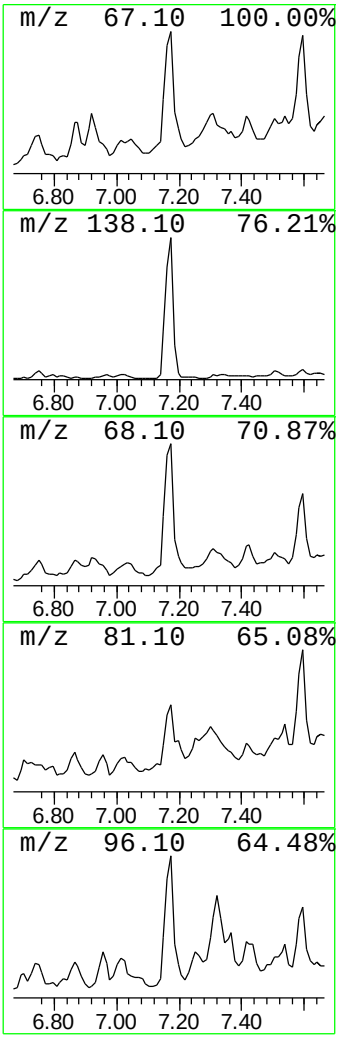
****

Peak Number 6 Naphthalene, decahydro- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.17	31.53 ng	8126840	1,4-Dichlorobenzene-d4	6.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-	138	C10H18	000091-17-8	94
2	Naphthalene, decahydro-, trans-	138	C10H18	000493-02-7	94
3	Spiro[4.5]decane	138	C10H18	000176-63-6	90
4	Cyclodecene	138	C10H18	003618-12-0	87
5	Spiro[4.4]nonan-2-one	138	C9H14O	034177-18-9	64





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Data File : BF091890.D
Acq On : 22 Dec 2016 17:08
Operator : UM/SJ
Sample : H6182-08
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-52(13-15)-121916

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.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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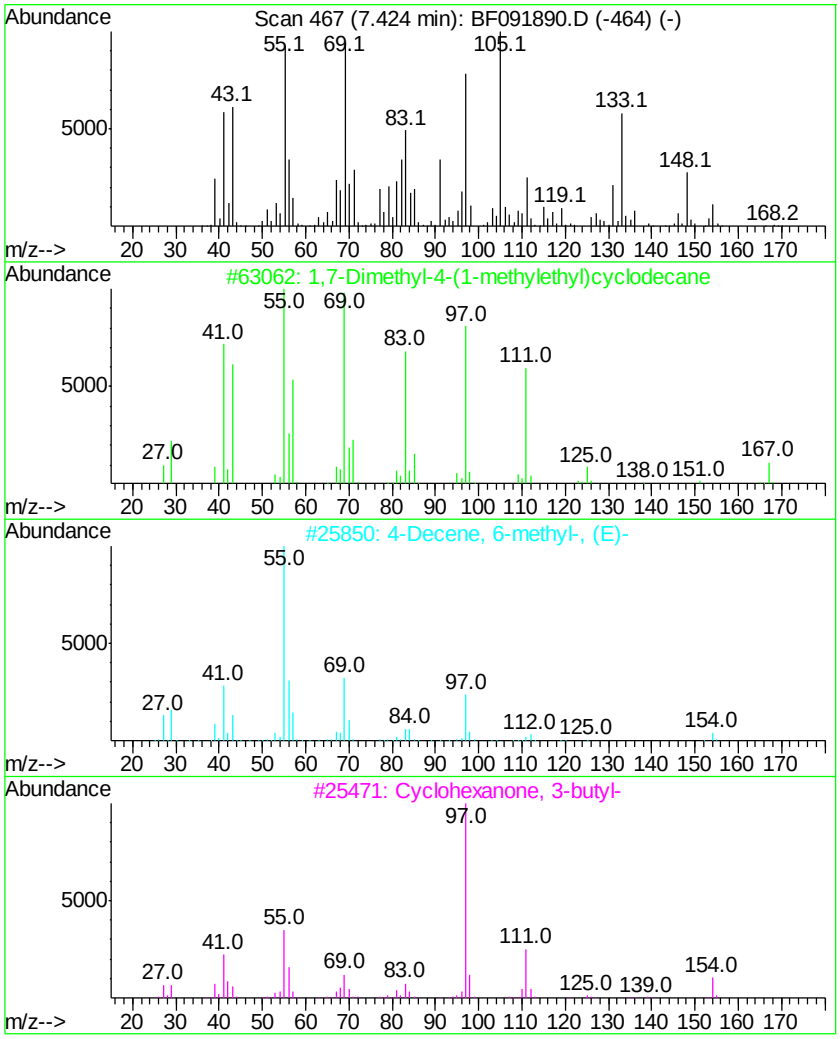
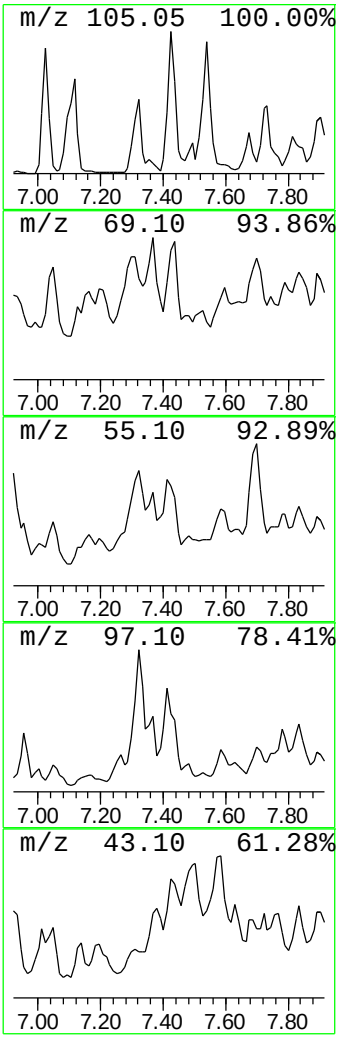
Peak Number 7 unknown7.42 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.42	62.76 ng	6656360	Naphthalene-d8	8.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,7-Dimethyl-4-(1-methylethyl)cy...	210	C15H30	000645-10-3	43
2	4-Decene, 6-methyl-, (E)-	154	C11H22	036229-57-9	27
3	Cyclohexanone, 3-butyl-	154	C10H18O	039178-69-3	25
4	Ethanone, 1-(1,2,2,3-tetramethyl...	168	C11H20O	059642-07-8	25
5	4-Octene, 2,3,7-trimethyl-, [S-(...	154	C11H22	052763-13-0	25





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Operator : UM/SJ
Sample : H6182-08
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-52(13-15)-121916

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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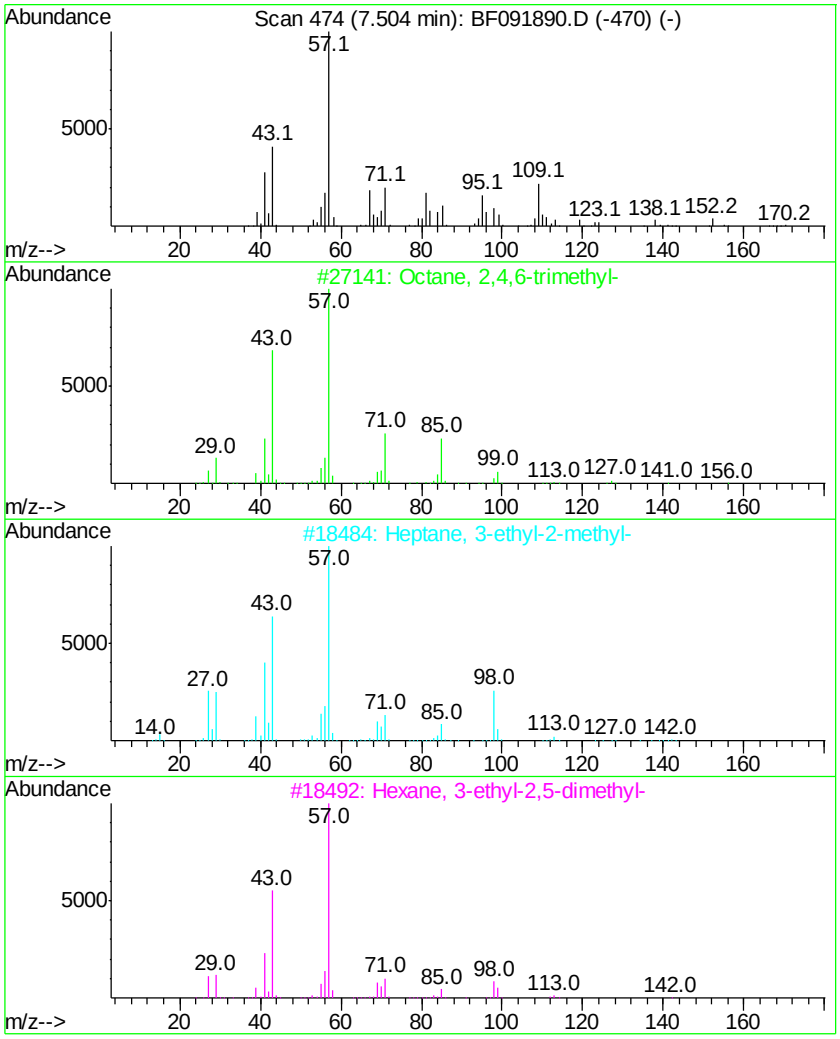
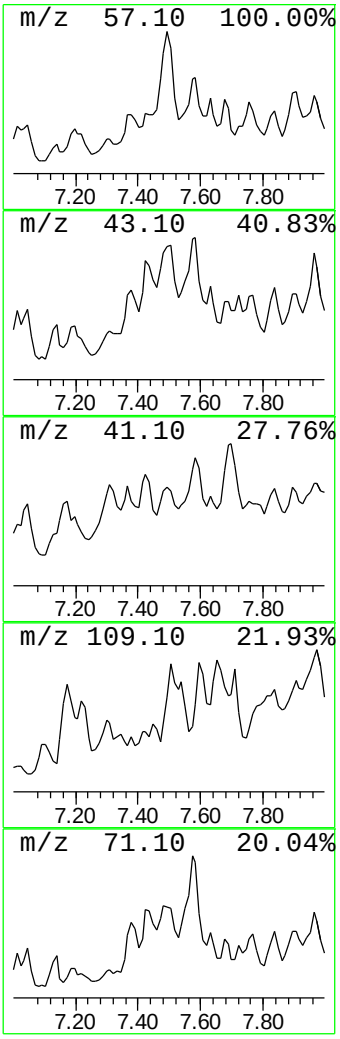
Peak Number 8 unknown7.50 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.50	37.53 ng	3979840	Naphthalene-d8	8.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,4,6-trimethyl-	156	C11H24	062016-37-9	35
2	Heptane, 3-ethyl-2-methyl-	142	C10H22	014676-29-0	35
3	Hexane, 3-ethyl-2,5-dimethyl-	142	C10H22	052897-04-8	25
4	Decane, 2,6,8-trimethyl-	184	C13H28	062108-26-3	22
5	Heptane, 3-ethyl-	128	C9H20	015869-80-4	22





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Operator : UM/SJ
Sample : H6182-08
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-52(13-15)-121916

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
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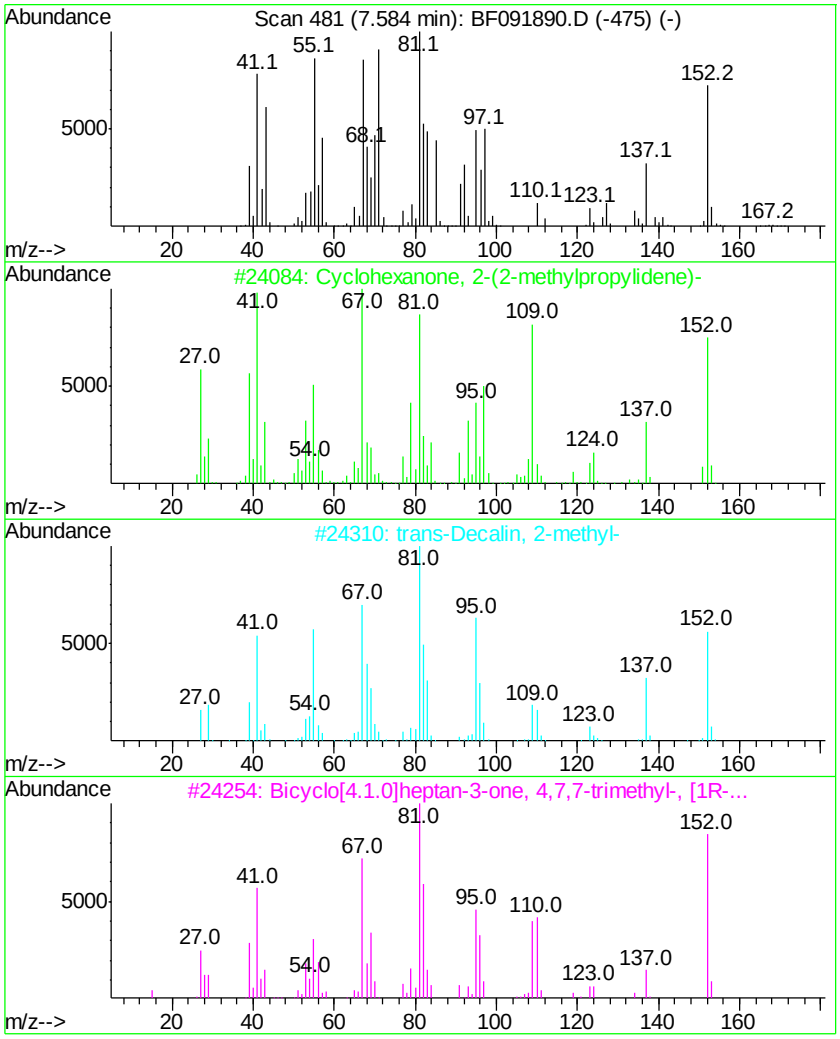
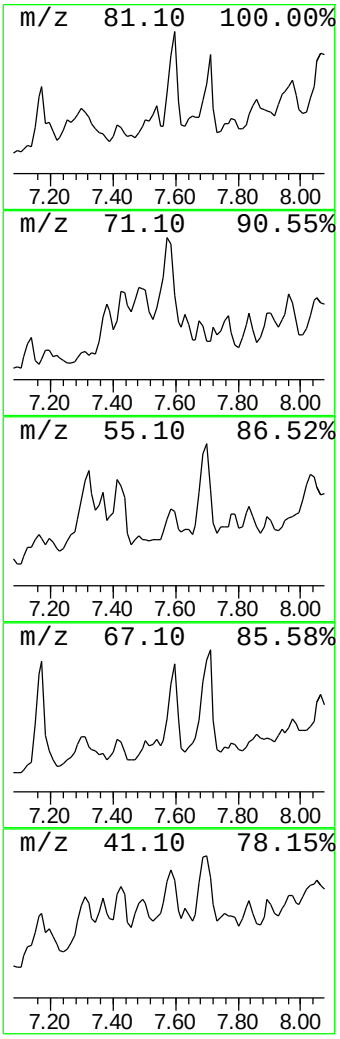
Peak Number 9 Cyclohexanone, 2-(2-methylp... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.58	122.94 ng	13038600	Naphthalene-d8	8.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanone, 2-(2-methylpropyl...	152	C10H16O	043108-69-6	83
2	trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	78
3	Bicyclo[4.1.0]heptan-3-one, 4,7,...	152	C10H16O	004176-04-9	53
4	Bicyclo[4.1.0]heptan-3-one, 4,7,...	152	C10H16O	004176-01-6	53
5	Pulegone	152	C10H16O	000089-82-7	50





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Operator : UM/SJ
Sample : H6182-08
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-52(13-15)-121916

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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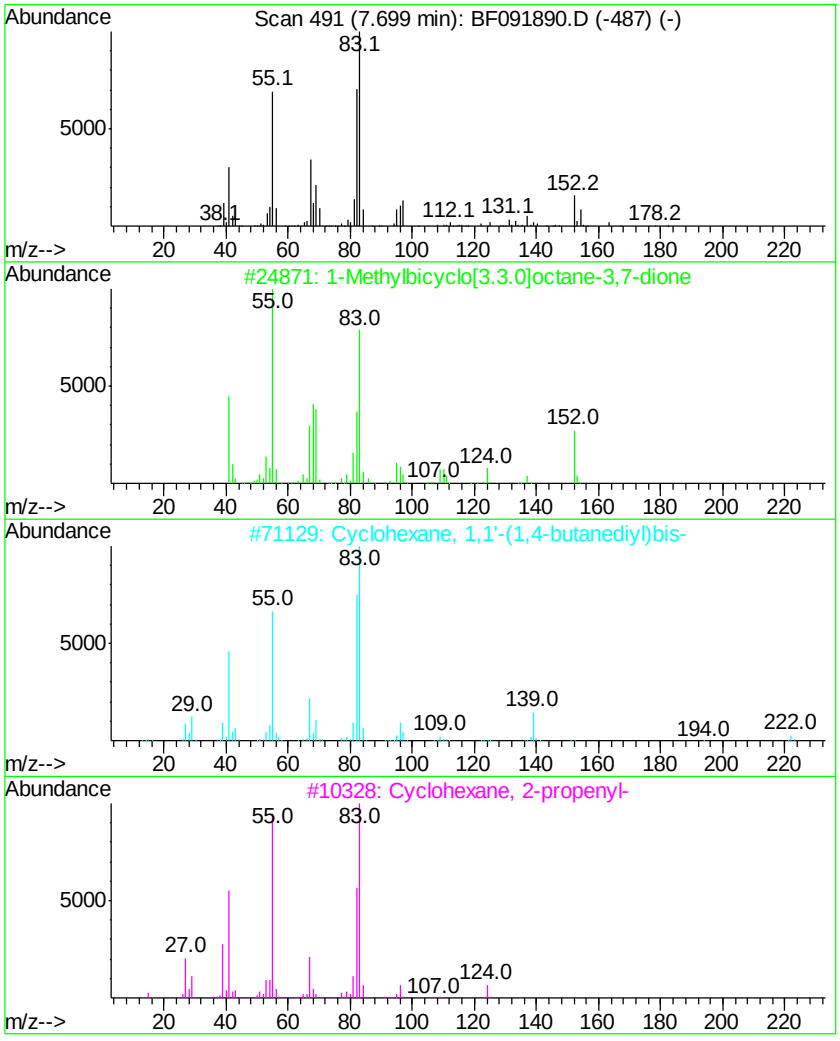
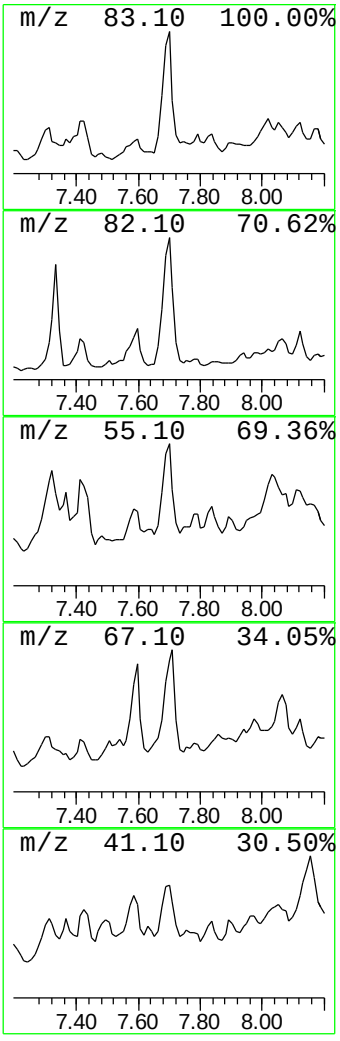
Peak Number 10 1-Methylbicyclo[3.3.0]octan... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.70	153.70 ng	16300500	Naphthalene-d8	8.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methylbicyclo[3.3.0]octane-3,7...	152	C9H12O2	021170-08-1	78
2	Cyclohexane, 1,1'-(1,4-butanediy...	222	C16H30	006165-44-2	64
3	Cyclohexane, 2-propenyl-	124	C9H16	002114-42-3	59
4	Cyclohexane, tetradecyl-	280	C20H40	001795-18-2	59
5	Cyclohexane, pentyl-	154	C11H22	004292-92-6	53





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Acq On : 22 Dec 2016 17:08
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Sample : H6182-08
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-52(13-15)-121916

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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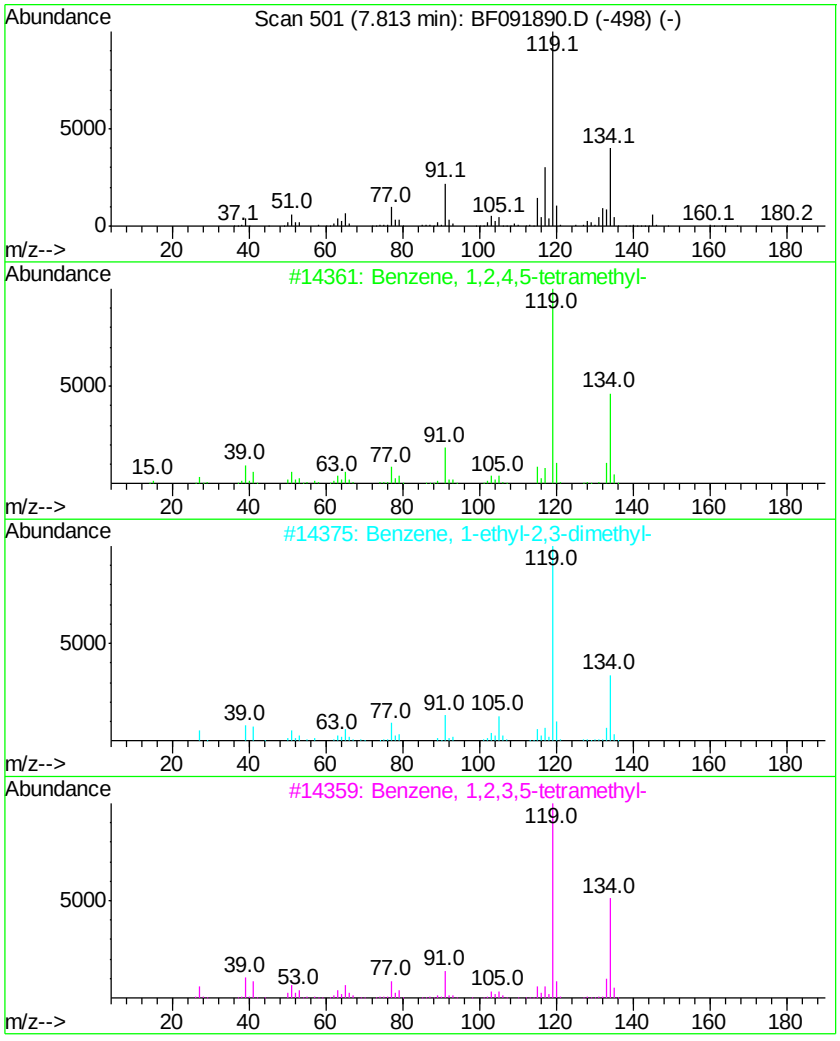
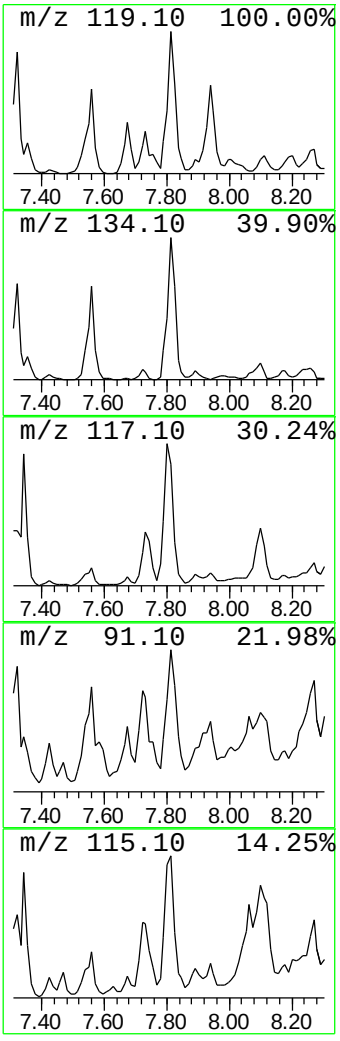
Peak Number 11 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.81	95.20 ng	10096200	Naphthalene-d8	8.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	89
2	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	81
3	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	81
4	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	81
5	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	81





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Sample : H6182-08
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-52(13-15)-121916

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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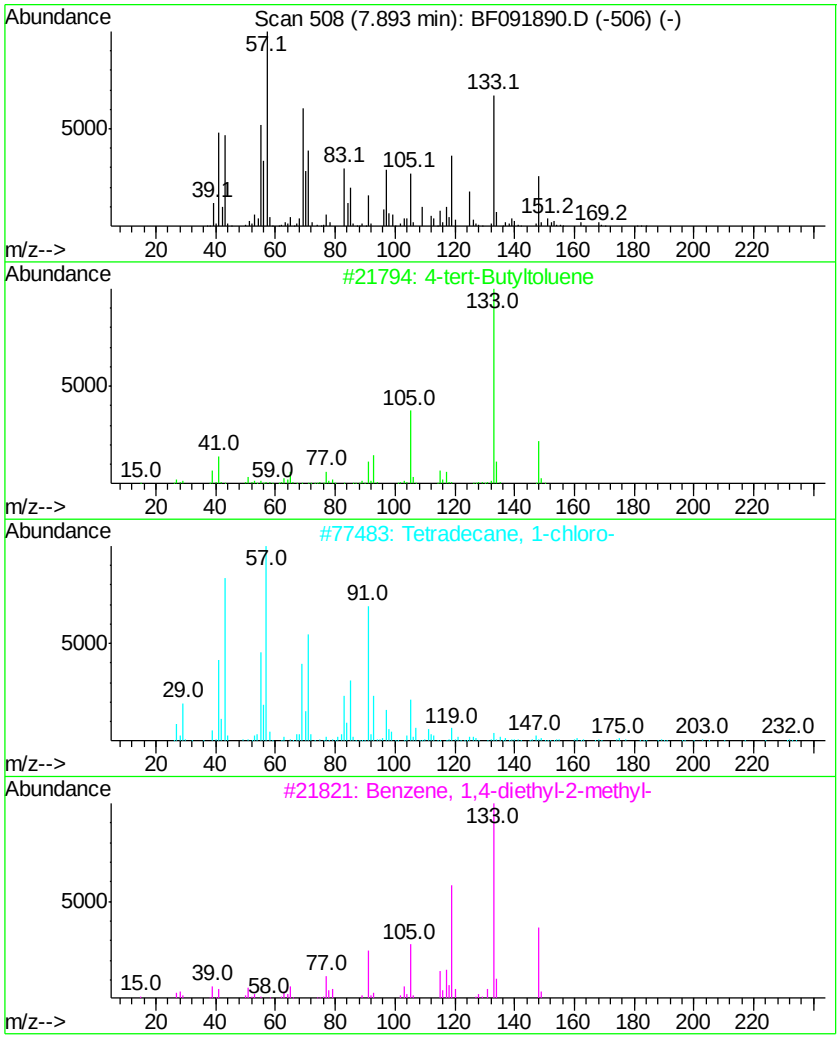
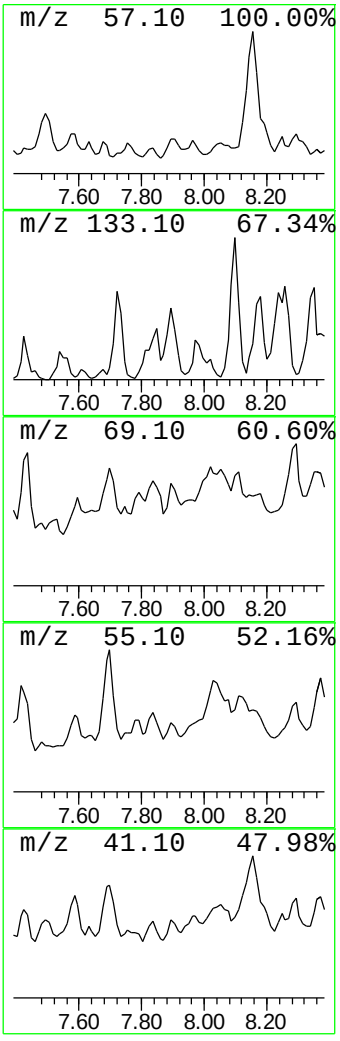
Peak Number 12 unknown7.89 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.89	37.33 ng	3959440	Naphthalene-d8	8.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-tert-Butyltoluene	148	C11H16	000098-51-1	38
2	Tetradecane, 1-chloro-	232	C14H29Cl	002425-54-9	38
3	Benzene, 1,4-diethyl-2-methyl-	148	C11H16	013632-94-5	38
4	2-tert-Butyltoluene	148	C11H16	001074-92-6	30
5	2-Ethyl-1-dodecanol	214	C14H30O	019780-33-7	30





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Misc :
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Instrument : BNA_F
ClientSampleId : SB-52(13-15)-121916

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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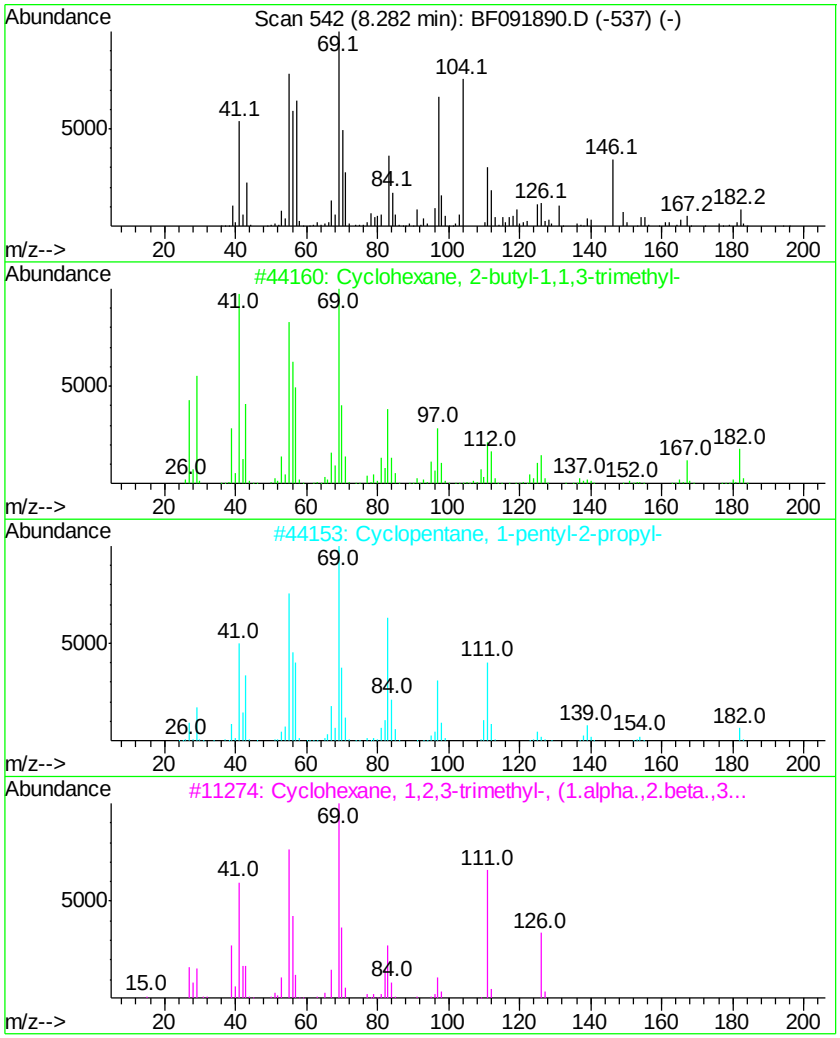
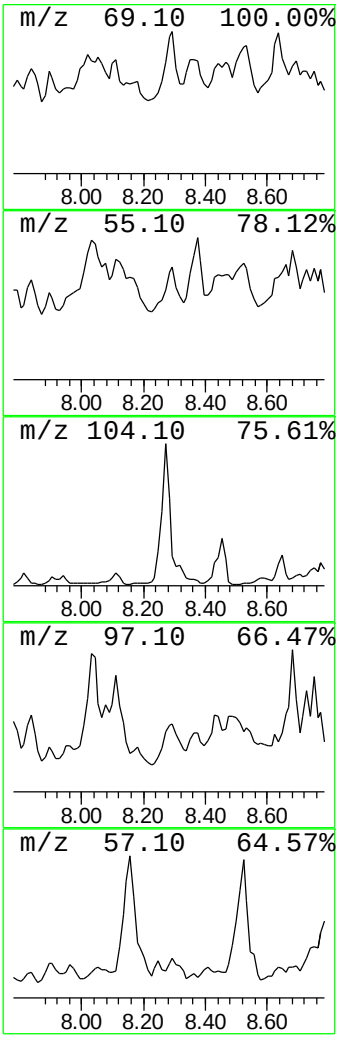
Peak Number 13 unknown8.28 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.28	105.17 ng	11154000	Naphthalene-d8	8.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 2-butyl-1,1,3-trime...	182	C13H26	054676-39-0	49
2	Cyclopentane, 1-pentyl-2-propyl-	182	C13H26	062199-51-3	45
3	Cyclohexane, 1,2,3-trimethyl-, (...	126	C9H18	001678-81-5	38
4	2-Heptene, 2,6-dimethyl-	126	C9H18	005557-98-2	30
5	3-Heptene, 2-methyl-	112	C8H16	017618-76-7	25





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Misc :
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Instrument : BNA_F
ClientSampleId : SB-52(13-15)-121916

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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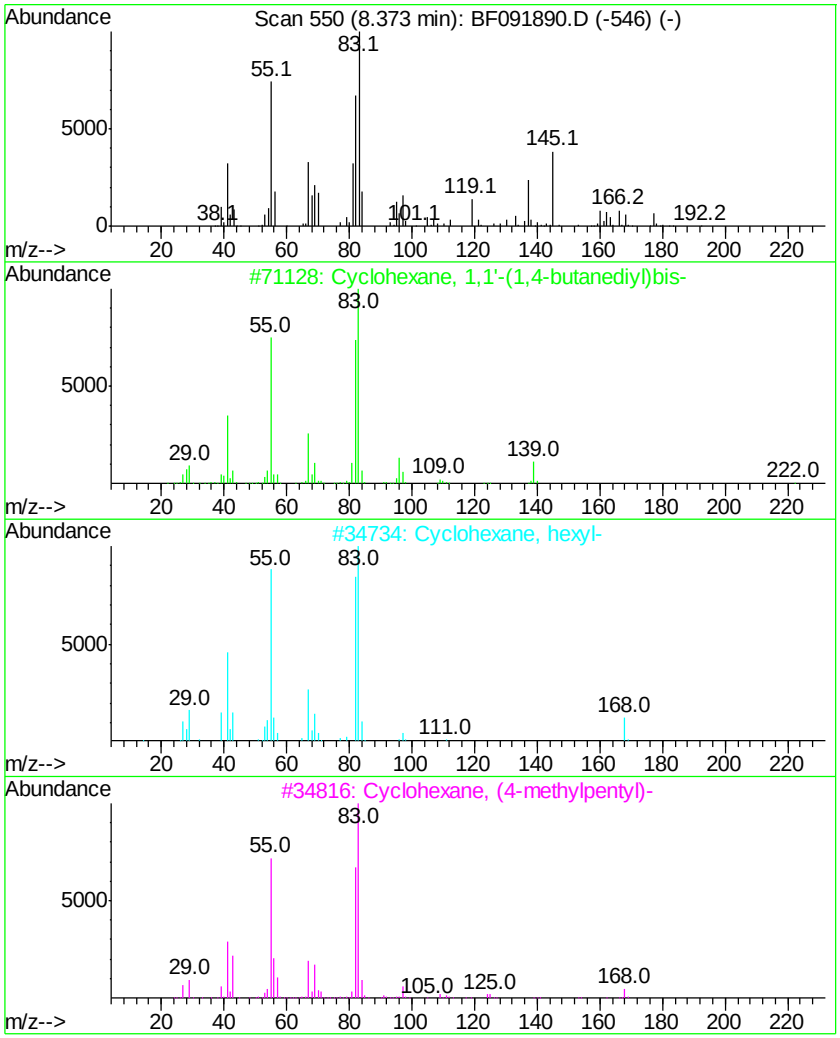
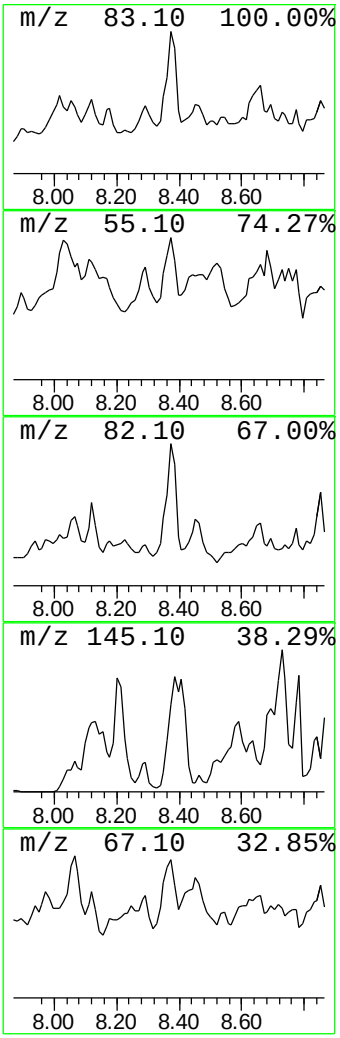
Peak Number 14 Cyclohexane, 1,1'-(1,4-buta... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.37	70.74 ng	7502420	Naphthalene-d8	8.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1'-(1,4-butanediy...	222	C16H30	006165-44-2	50
2	Cyclohexane, hexyl-	168	C12H24	004292-75-5	50
3	Cyclohexane, (4-methylpentyl)-	168	C12H24	061142-20-9	49
4	3,7-Decadiene, 2,9-dimethyl-	166	C12H22	074630-13-0	47
5	Cyclohexane, pentyl-	154	C11H22	004292-92-6	47





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Instrument : BNA_F
ClientSampleId : SB-52(13-15)-121916

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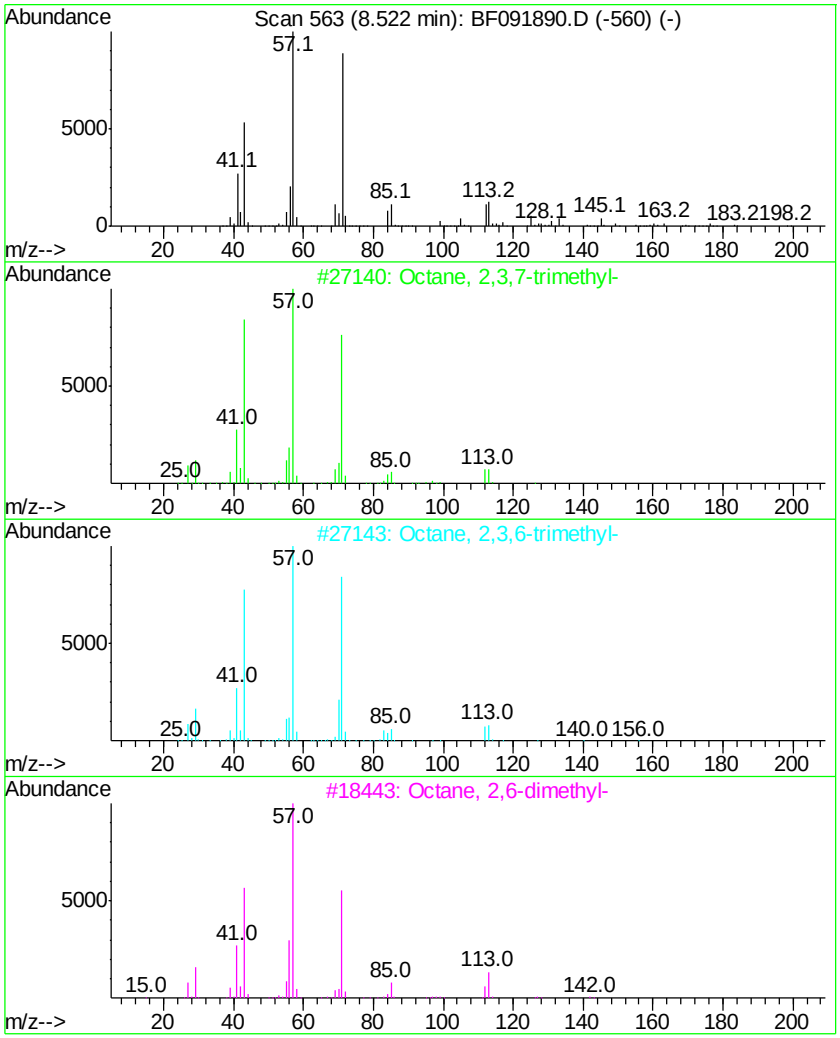
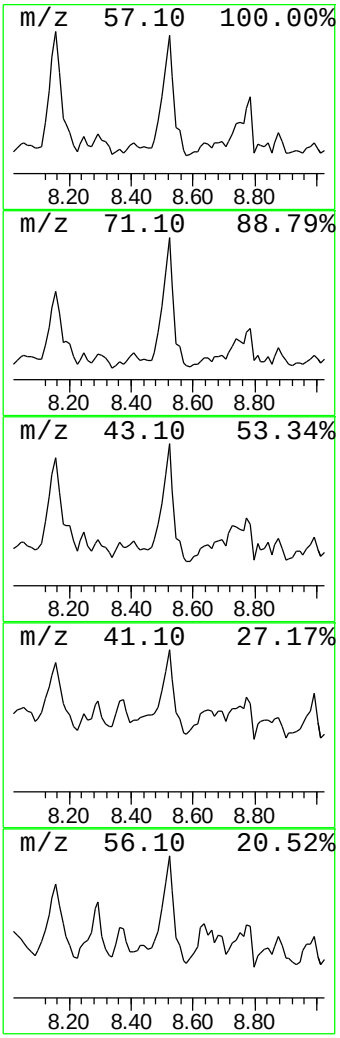
Peak Number 15 Octane, 2,3,7-trimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.52	112.33 ng	11913100	Naphthalene-d8	8.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,3,7-trimethyl-	156	C11H24	062016-34-6	78
2	Octane, 2,3,6-trimethyl-	156	C11H24	062016-33-5	72
3	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	72
4	Dodecane, 4,6-dimethyl-	198	C14H30	061141-72-8	64
5	Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	64





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Instrument : BNA_F
ClientSampleId : SB-52(13-15)-121916

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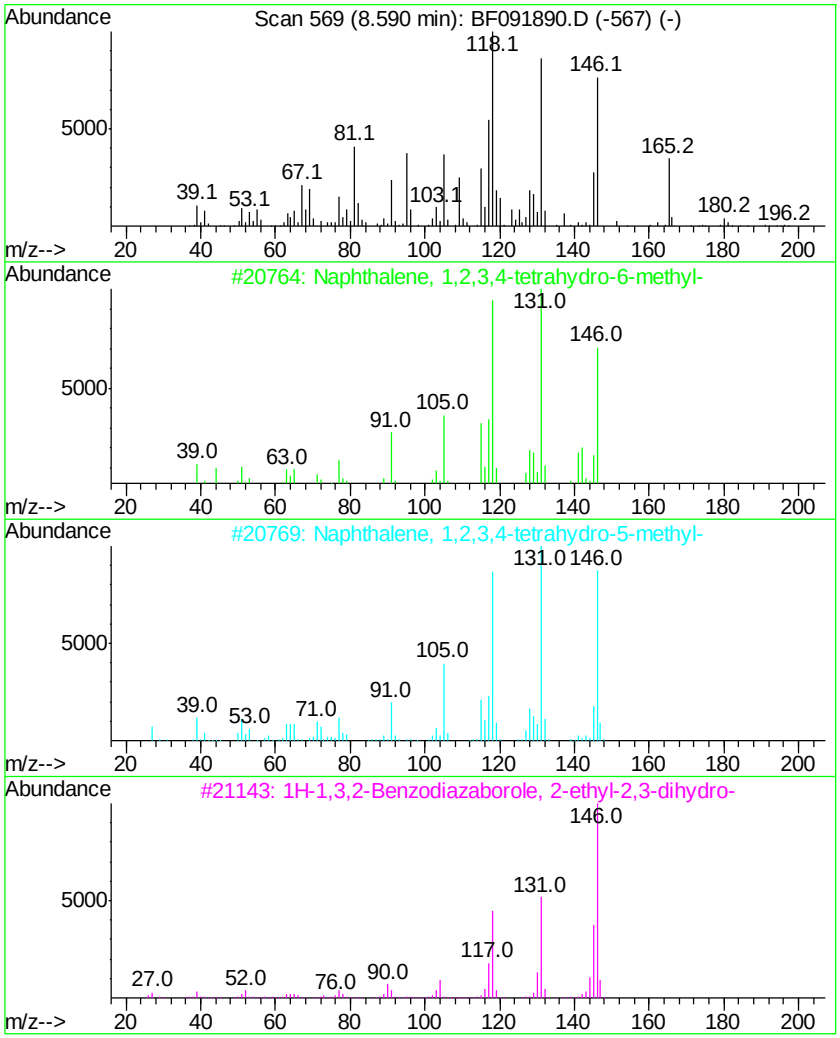
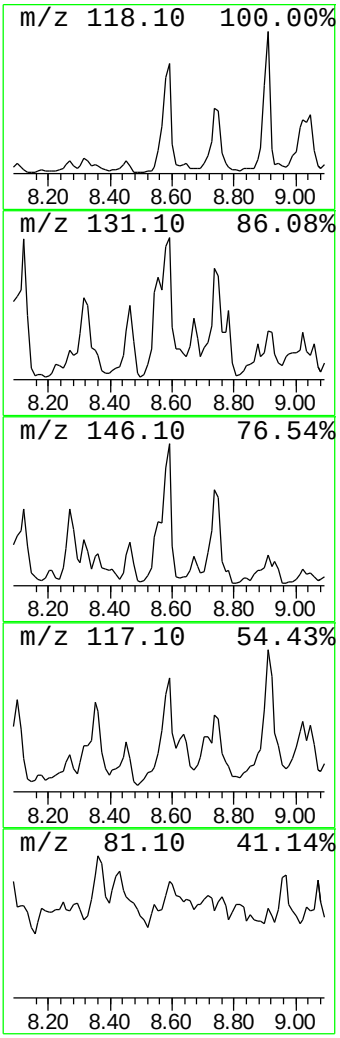
Peak Number 16 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.59	25.40 ng	2693400	Naphthalene-d8	8.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001680-51-9	89
2	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	002809-64-5	68
3	1H-1,3,2-Benzodiazaborole, 2-eth...	146	C8H11BN2	074663-81-3	62
4	2,3,4,5,6,7-Hexahydro-1H-cyclope...	146	C11H14	1000189-31-0	58
5	.alpha.,.beta.,.beta.-Trimethyls...	146	C11H14	000769-57-3	50





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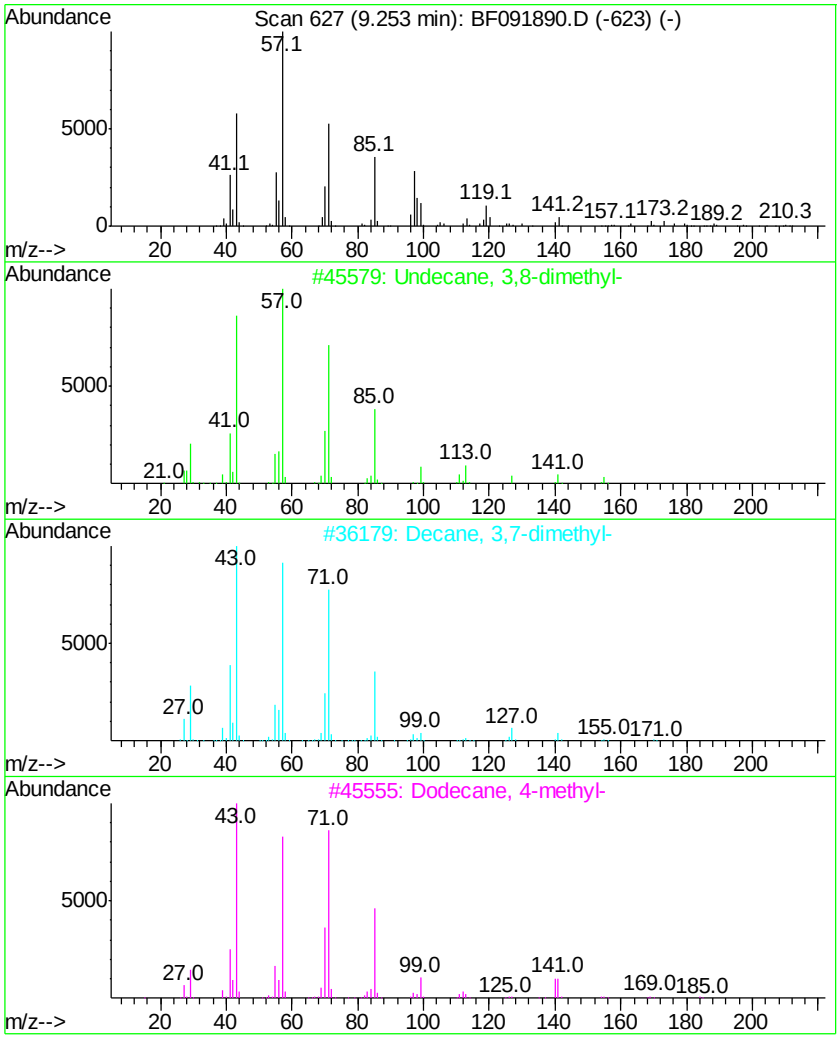
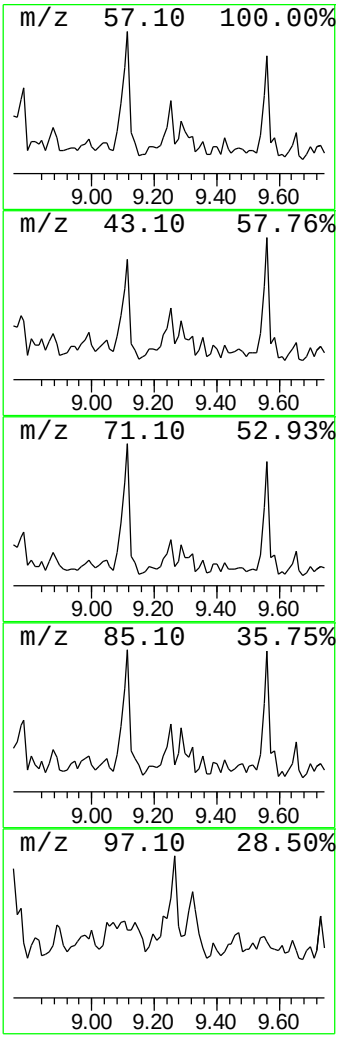
Peak Number 17 Undecane, 3,8-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.25	25.56 ng	6743080	Acenaphthene-d10	9.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 3,8-dimethyl-	184	C13H28	017301-30-3	58
2	Decane, 3,7-dimethyl-	170	C12H26	017312-54-8	49
3	Dodecane, 4-methyl-	184	C13H28	006117-97-1	47
4	Dodecane, 2-methyl-	184	C13H28	001560-97-0	47
5	1-Iodoundecane	282	C11H23I	004282-44-4	43





Data Path : Z:\HPCHEM1\BNA F\DATA\BF122216\
Data File : BF091890.D
Acq On : 22 Dec 2016 17:08
Operator : UM/SJ
Sample : H6182-08
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-52(13-15)-121916

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.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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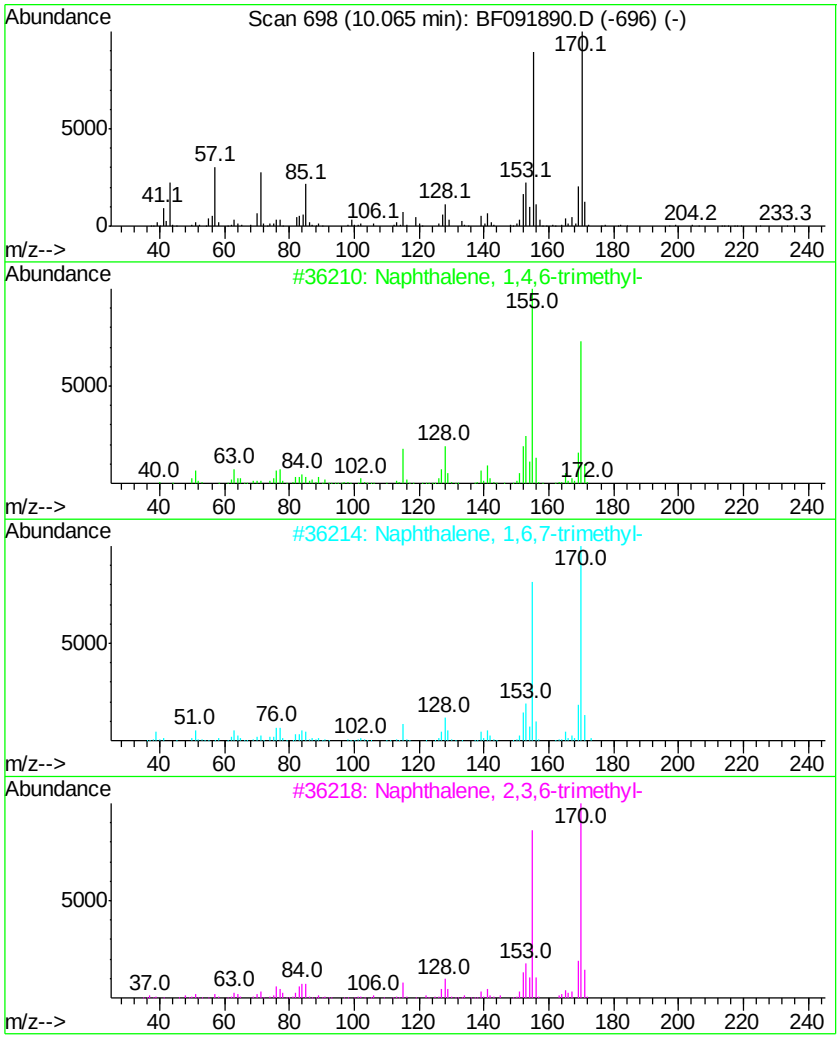
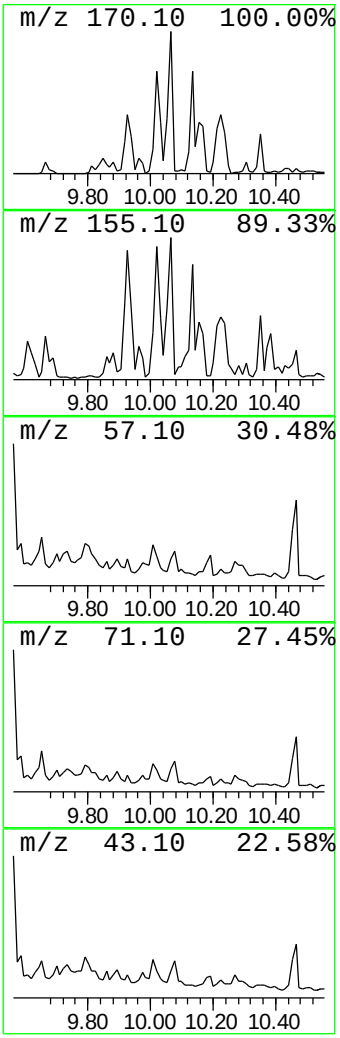
Peak Number 18 Naphthalene, 1,4,6-trimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.06	24.04 ng	6343150	Acenaphthene-d10	9.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	95
2	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	95
3	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	94
4	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	93
5	Azulene, 4,6,8-trimethyl-	170	C13H14	000941-81-1	91





Data Path : Z:\HPCHEM1\BNA F\DATA\BF122216\
Data File : BF091890.D
Acq On : 22 Dec 2016 17:08
Operator : UM/SJ
Sample : H6182-08
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-52(13-15)-121916

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

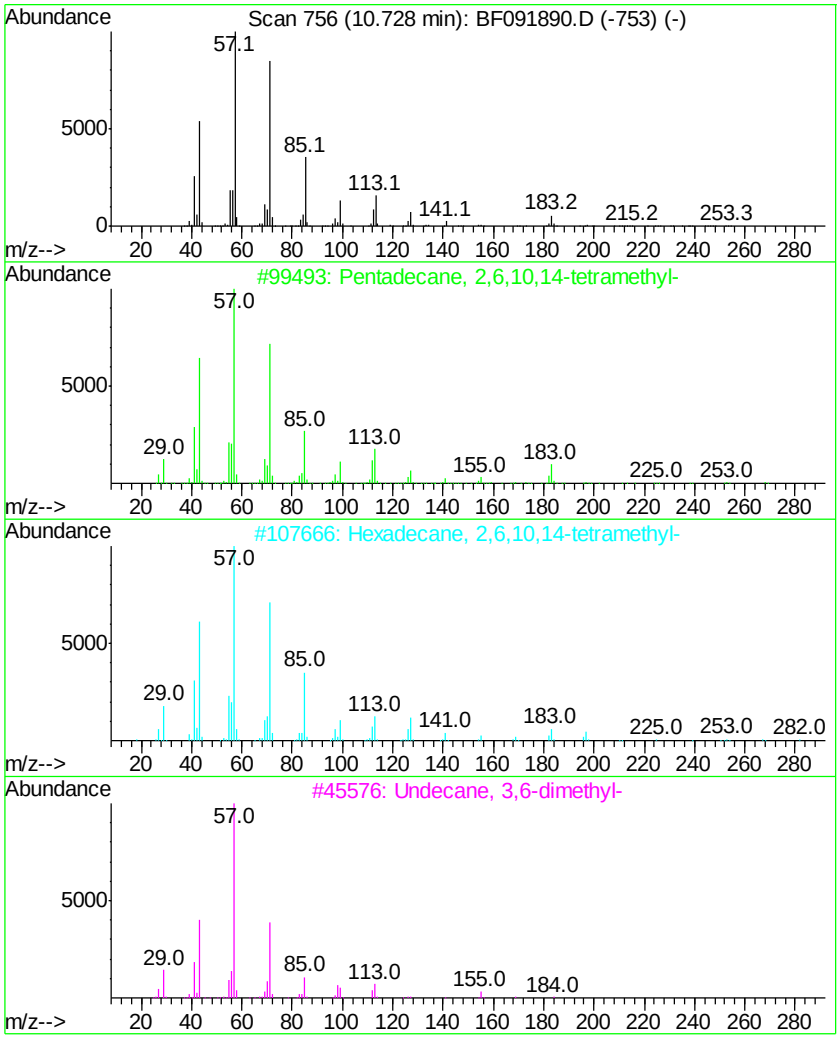
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

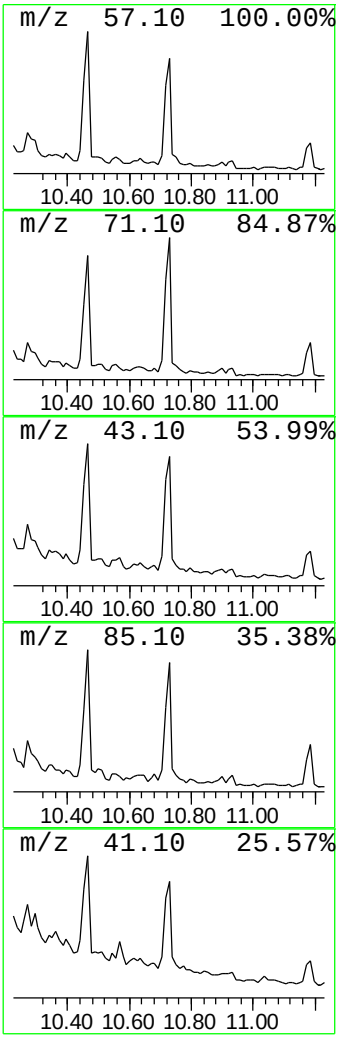
****

Peak Number 19 Pentadecane, 2,6,10,14-tetr... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.73	101.14 ng	5123060	Phenanthrene-d10	11.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane, 2,6,10,14-tetramethyl-	268	C19H40	001921-70-6	86
2	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	78
3	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	72
4	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	72
5	Undecane, 6-ethyl-	184	C13H28	017312-60-6	64





Data Path : Z:\HPCHEM1\BNA F\DATA\BF122216\
Data File : BF091890.D
Acq On : 22 Dec 2016 17:08
Operator : UM/SJ
Sample : H6182-08
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-52(13-15)-121916

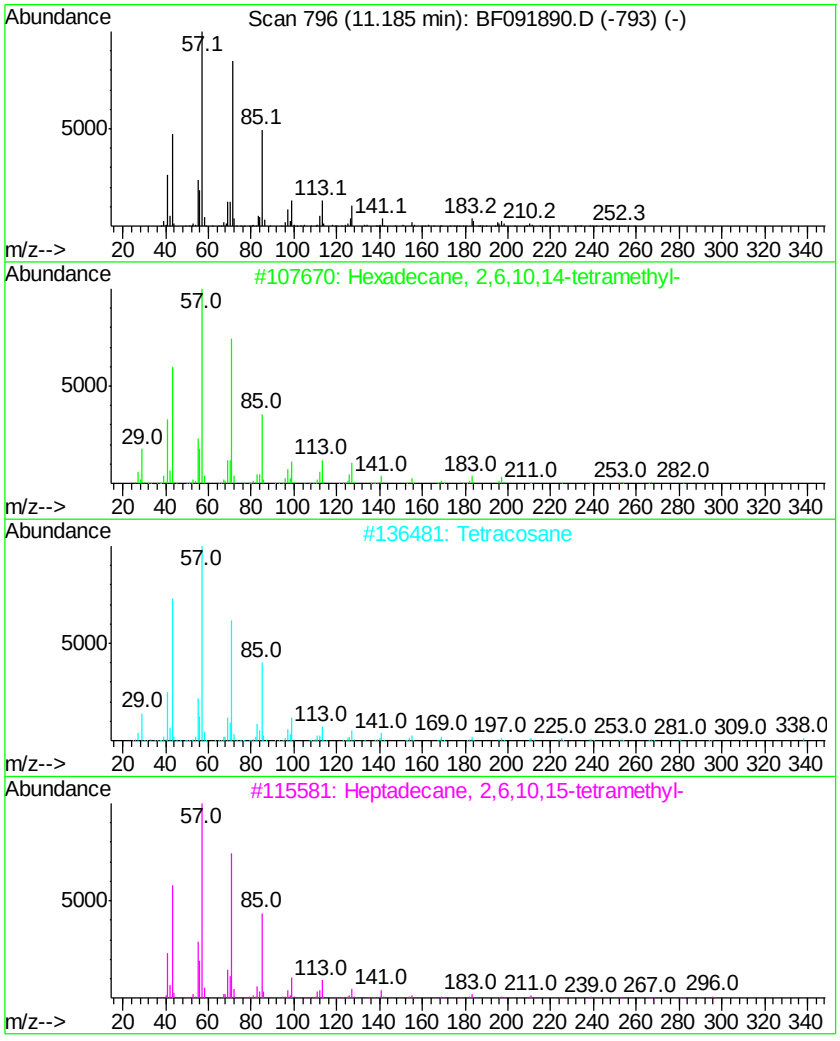
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

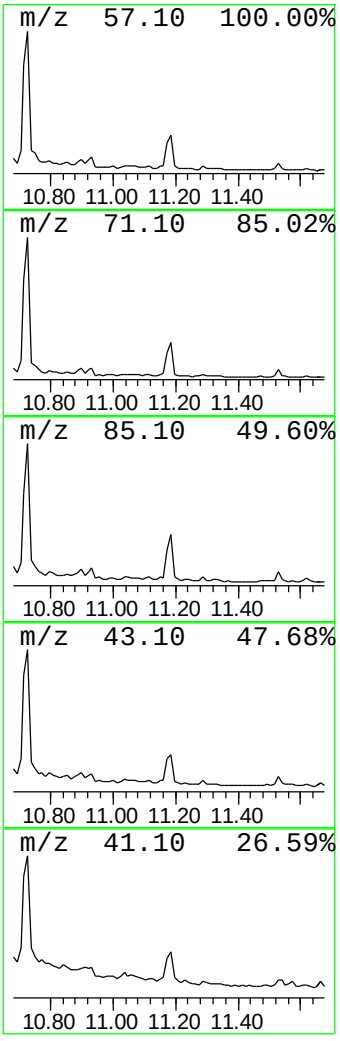
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 20 Hexadecane, 2,6,10,14-tetra... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.18	29.43 ng	1490820	Phenanthrene-d10	11.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	91
2	Tetracosane	338	C24H50	000646-31-1	90
3	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	86
4	Heptadecane	240	C17H36	000629-78-7	83
5	Octacosane	394	C28H58	000630-02-4	78





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122216\
Data File : BF091890.D
Acq On : 22 Dec 2016 17:08
Operator : UM/SJ
Sample : H6182-08
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-52(13-15)-121916

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.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
Nonane, 3-methyl-	6.01	30.4	ng	7831520	1	6.76	5155430	20.0
Cyclohexane, 1,2,...	6.28	29.0	ng	7477060	1	6.76	5155430	20.0
unknown6.56	6.56	29.5	ng	7602300	1	6.76	5155430	20.0
unknown6.92	6.92	69.7	ng	17968500	1	6.76	5155430	20.0
Cyclopentane, hexyl-	7.05	35.5	ng	9148130	1	6.76	5155430	20.0
Naphthalene, deca...	7.17	31.5	ng	8126840	1	6.76	5155430	20.0
unknown7.42	7.42	62.8	ng	6656360	2	8.06	2121110	20.0
unknown7.50	7.50	37.5	ng	3979840	2	8.06	2121110	20.0
Cyclohexanone, 2-...	7.58	122.9	ng	13038600	2	8.06	2121110	20.0
1-Methylbicyclo[3...	7.70	153.7	ng	16300500	2	8.06	2121110	20.0
Benzene, 1,2,4,5-...	7.81	95.2	ng	10096200	2	8.06	2121110	20.0
unknown7.89	7.89	37.3	ng	3959440	2	8.06	2121110	20.0
unknown8.28	8.28	105.2	ng	11154000	2	8.06	2121110	20.0
Cyclohexane, 1,1'...	8.37	70.7	ng	7502420	2	8.06	2121110	20.0
Octane, 2,3,7-tri...	8.52	112.3	ng	11913100	2	8.06	2121110	20.0
Naphthalene, 1,2,...	8.59	25.4	ng	2693400	2	8.06	2121110	20.0
Undecane, 3,8-dim...	9.25	25.6	ng	6743080	3	9.82	5276150	20.0
Naphthalene, 1,4,...	10.06	24.0	ng	6343150	3	9.82	5276150	20.0
Pentadecane, 2,6,...	10.73	101.1	ng	5123060	4	11.28	1013040	20.0
Hexadecane, 2,6,1...	11.18	29.4	ng	1490820	4	11.28	1013040	20.0