LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF030117\
Data File : BF093302.D
Acq On : 1 Mar 2017 21:12
Operator : SJ/MA
Sample : I2031-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 20170228-01

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-BF013017.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	2.247	6	14	18	rBV2	297337	854152	16.07%	0.776%
2	2.384	23	26	28	rVV	85117	177915	3.35%	0.162%
3	2.441	28	31	34	rVB2	198042	401008	7.54%	0.364%
4	2.636	39	48	50	rBV4	186169	629551	11.84%	0.572%
5	2.681	50	52	56	rVB	387590	640438	12.05%	0.582%
6	2.887	64	70	75	rVB3	112262	339041	6.38%	0.308%
7	3.001	75	80	81	rBV	70757	172464	3.24%	0.157%
8	3.207	91	98	101	rBV2	134256	408458	7.68%	0.371%
9	3.276	101	104	108	rVV	343150	666758	12.54%	0.606%
10	3.367	108	112	118	rVV	215594	532205	10.01%	0.483%
11	3.619	130	134	136	rBV	69267	164778	3.10%	0.150%
12	3.721	140	143	146	rVV	211174	359004	6.75%	0.326%
13	3.779	146	148	152	rVB	94352	189884	3.57%	0.172%
14	3.950	159	163	166	rBV2	144028	259480	4.88%	0.236%
15	4.121	174	178	180	rBV	89283	176001	3.31%	0.160%
16	4.327	194	196	199	rBV	111713	152219	2.86%	0.138%
17	4.441	202	206	213	rVB2	329770	504676	9.49%	0.458%
18	4.864	241	243	247	rVB2	158537	303375	5.71%	0.276%
19	4.956	247	251	254	rBV	542140	710992	13.37%	0.646%
20	5.013	254	256	261	rVB4	76261	151756	2.85%	0.138%
21	5.230	273	275	282	rBV	209748	301177	5.67%	0.274%
22	5.344	282	285	288	rBV3	294211	441555	8.31%	0.401%
23	5.402	288	290	295	rVB	2231691	2281168	42.91%	2.072%
24	5.950	334	338	340	rBV	2024377	1848761	34.78%	1.679%
25	6.247	362	364	367	rVB	3298213	4127223	77.64%	3.749%
26	6.453	380	382	383	rBV	1425789	1522117	28.63%	1.383%
27	6.476	383	384	387	rVB	602159	673580	12.67%	0.612%
28	6.579	390	393	395	rBV	3359813	3876802	72.93%	3.521%
29	6.750	405	408	411	rBV2	525214	944076	17.76%	0.857%
30	6.807	411	413	414	rVV	848828	920226	17.31%	0.836%
31	6.830	414	415	416	rVV	239760	207060	3.89%	0.188%
32	6.865	416	418	420	rVV	191079	237251	4.46%	0.215%
33	6.967	424	427	428	rBV2	2744304	5316101	100.00%	4.829%
34	6.990	428	429	431	rVV	3349042	2331568	43.86%	2.118%

LSC Area Percent Report

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Acq On : 1 Mar 2017 21:12
Operator : SJ/MA
Sample : I2031-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 20170228-01

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-BF013017.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	7.059	432	435	437	rVV	1726903	1729664	32.54%	1.571%
36	7.127	439	441	445	rVB	1851657	2074751	39.03%	1.884%
37	7.196	445	447	449	rBV	146811	170166	3.20%	0.155%
38	7.276	452	454	456	rVB	330088	288596	5.43%	0.262%
39	7.345	457	460	462	rBV	3191259	4959999	93.30%	4.505%
40	7.379	462	463	466	rVV2	3855842	3771313	70.94%	3.425%
41	7.459	467	470	472	rVV	263630	338342	6.36%	0.307%
42	7.493	472	473	477	rVB2	166414	242124	4.55%	0.220%
43	7.585	477	481	483	rBV	2570864	2479973	46.65%	2.253%
44	7.699	489	491	492	rBV	332240	303486	5.71%	0.276%
45	7.768	492	497	500	rVB	2470524	2919101	54.91%	2.651%
46	7.836	500	503	505	rBV	4002057	4578635	86.13%	4.159%
47	7.870	505	506	507	rVV	237307	232012	4.36%	0.211%
48	7.916	507	510	513	rVV3	294458	540356	10.16%	0.491%
49	7.962	513	514	516	rVB	423125	365134	6.87%	0.332%
50	8.088	516	525	528	rBV3	1653435	4451897	83.74%	4.044%
51	8.145	528	530	532	rVV	653336	925184	17.40%	0.840%
52	8.179	532	533	535	rVB	359137	358207	6.74%	0.325%
53	8.248	538	539	540	rVV	210247	160980	3.03%	0.146%
54	8.293	540	543	545	rVV3	301624	373690	7.03%	0.339%
55	8.373	545	550	553	rVV3	682777	1263171	23.76%	1.147%
56	8.476	557	559	561	rVV	957108	939473	17.67%	0.853%
57	8.556	564	566	568	rVV2	649038	1000127	18.81%	0.908%
58	8.602	568	570	572	rVV	606175	941495	17.71%	0.855%
59	8.659	572	575	576	rVV2	289345	495278	9.32%	0.450%
60	8.682	576	577	579	rVV2	687784	666415	12.54%	0.605%
61	8.728	579	581	582	rVV	245687	426775	8.03%	0.388%
62	8.750	582	583	589	rVV4	565858	940849	17.70%	0.855%
63	8.910	593	597	598	rVV	4034780	4484950	84.37%	4.074%
64	8.933	598	599	602	rVV	325438	358182	6.74%	0.325%
65	8.991	602	604	607	rVV4	133404	337728	6.35%	0.307%
66	9.116	612	615	617	rVV3	130845	301017	5.66%	0.273%
67	9.173	617	620	622	rVV	4418423	4818508	90.64%	4.377%
68	9.311	629	632	634	rVV	300267	485111	9.13%	0.441%
69	9.368	634	637	640	rVV	679154	1156085	21.75%	1.050%
70	9.436	640	643	647	rVV	1605281	2452050	46.12%	2.227%
71	9.505	647	649	650	rVV	2200603	2508260	47.18%	2.278%

LSC Area Percent Report

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Instrument : BNA_F
ClientSampleId : 20170228-01

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
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Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	9.528	650	651	653	rVV	1117035	1560005	29.34%	1.417%
73	9.562	653	654	657	rVV	228266	262999	4.95%	0.239%
74	9.619	657	659	664	rVB	975708	1388507	26.12%	1.261%
75	9.699	664	666	669	rBV	545551	660019	12.42%	0.599%
76	9.848	676	679	680	rBV	1301419	1438650	27.06%	1.307%
77	9.882	680	682	686	rVB3	381971	596763	11.23%	0.542%
78	9.951	686	688	690	rVB	374408	509368	9.58%	0.463%
79	9.996	690	692	693	rBV	135303	185393	3.49%	0.168%
80	10.042	694	696	698	rVV	465451	660807	12.43%	0.600%
81	10.088	698	700	702	rVV	492907	459558	8.64%	0.417%
82	10.156	704	706	708	rBV	398857	493511	9.28%	0.448%
83	10.191	708	709	712	rVV	342961	265664	5.00%	0.241%
84	10.248	712	714	715	rVV	244006	348642	6.56%	0.317%
85	10.271	715	716	718	rVB	293718	220155	4.14%	0.200%
86	10.385	724	726	729	rVV2	326135	459919	8.65%	0.418%
87	10.454	729	732	737	rVV2	650265	1090810	20.52%	0.991%
88	10.545	737	740	742	rVB3	136954	293143	5.51%	0.266%
89	10.636	745	748	751	rVV	2072613	2415543	45.44%	2.194%
90	10.751	753	758	762	rVB2	266519	513126	9.65%	0.466%
91	10.934	771	774	776	rVV	140371	257449	4.84%	0.234%
92	10.968	776	777	781	rVV	403789	420449	7.91%	0.382%
93	11.071	785	786	790	rVB3	101734	184210	3.47%	0.167%
94	11.219	798	799	802	rVB	210263	256823	4.83%	0.233%
95	11.334	806	809	812	rBV	1112124	1649413	31.03%	1.498%
96	11.825	850	852	854	rVV	103385	154835	2.91%	0.141%
97	11.939	860	862	867	rVB	95599	159390	3.00%	0.145%
98	12.911	944	947	950	rBV	2899192	3695778	69.52%	3.357%
99	13.974	1037	1040	1042	rBV	749487	1013592	19.07%	0.921%
100	15.391	1161	1164	1167	rBV	660922	821305	15.45%	0.746%

Sum of corrected areas: 110097730

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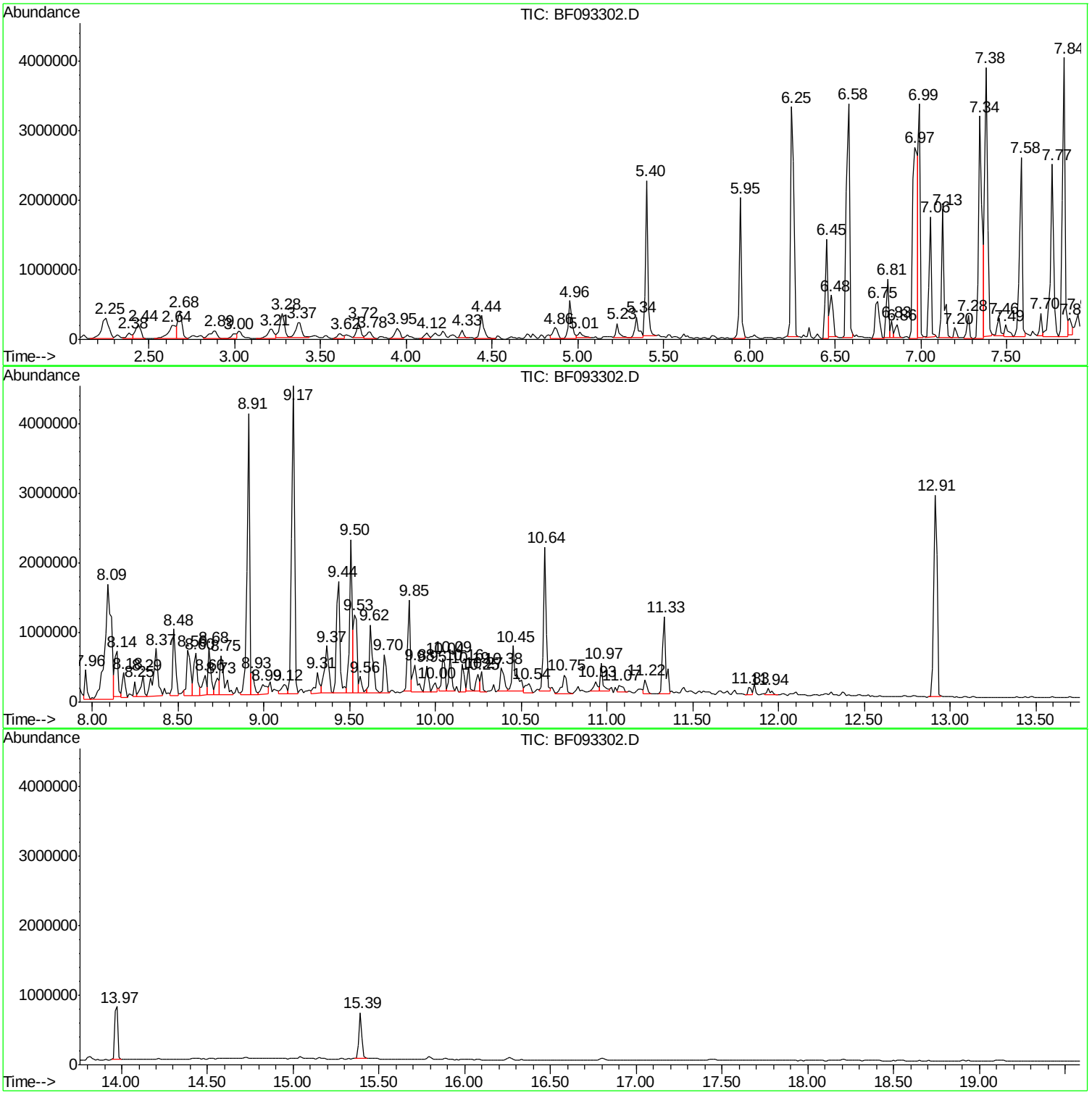
Instrument : BNA_F
ClientSampleId : 20170228-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF030117\
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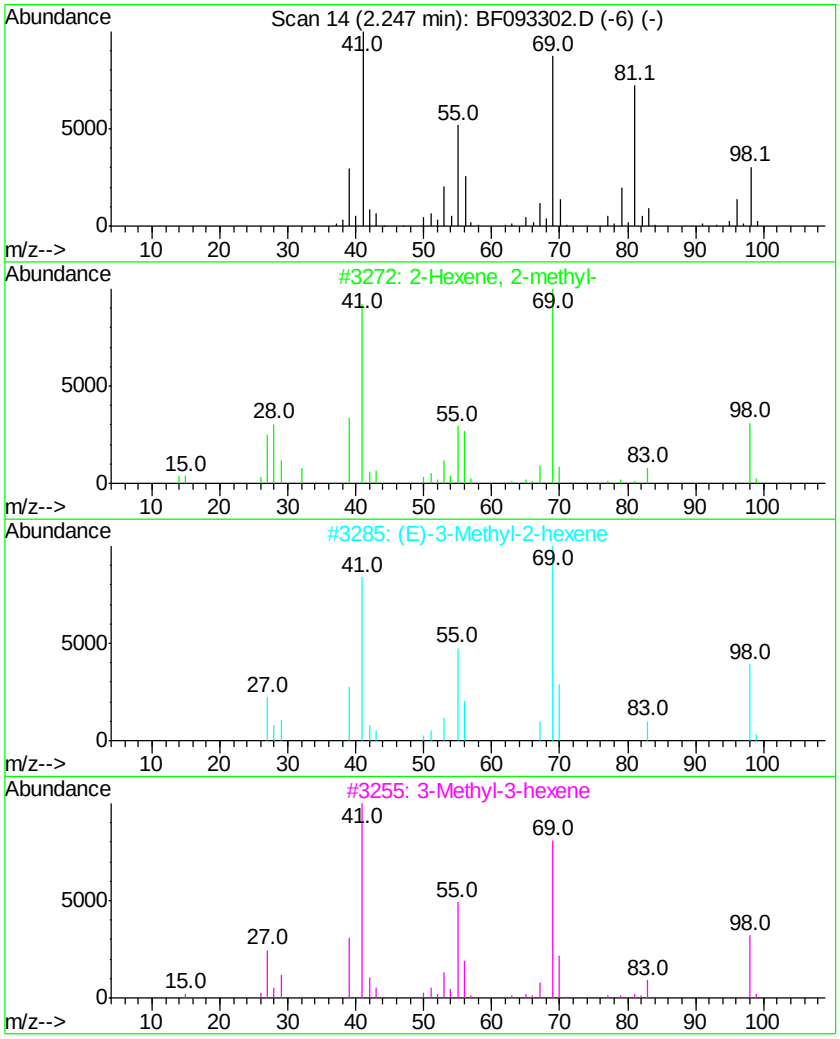
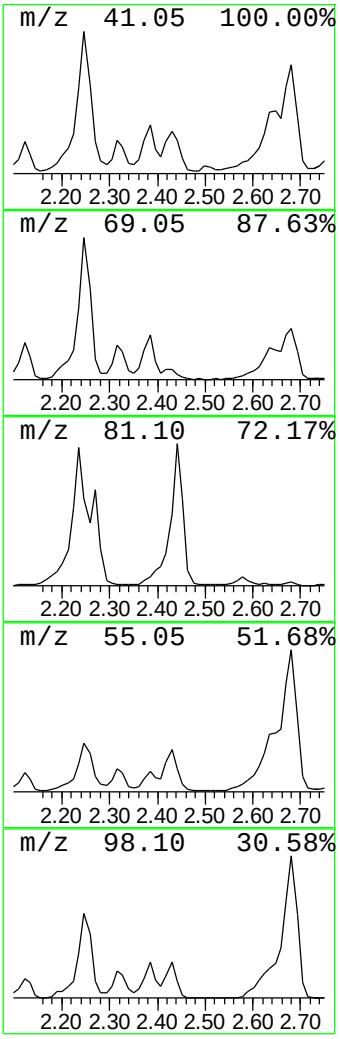
****

Peak Number 1 2-Hexene, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.25	18.56 ng	854152	1,4-Dichlorobenzene-d4	6.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Hexene, 2-methyl-	98	C7H14	002738-19-4	76
2	(E)-3-Methyl-2-hexene	98	C7H14	020710-38-7	70
3	3-Methyl-3-hexene	98	C7H14	003404-65-7	70
4	3-Hexene, 3-methyl-, (Z)-	98	C7H14	004914-89-0	70
5	2-Hexene, 3-methyl-, (Z)-	98	C7H14	010574-36-4	70





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Sample : I2031-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 20170228-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

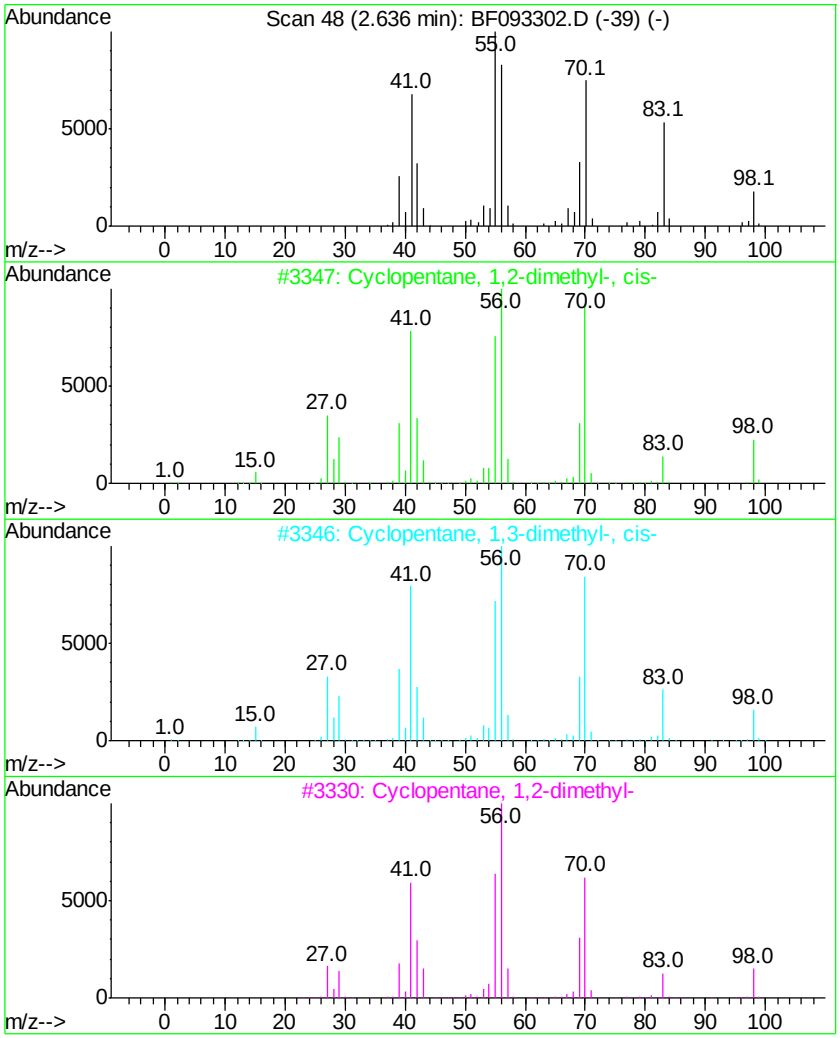
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

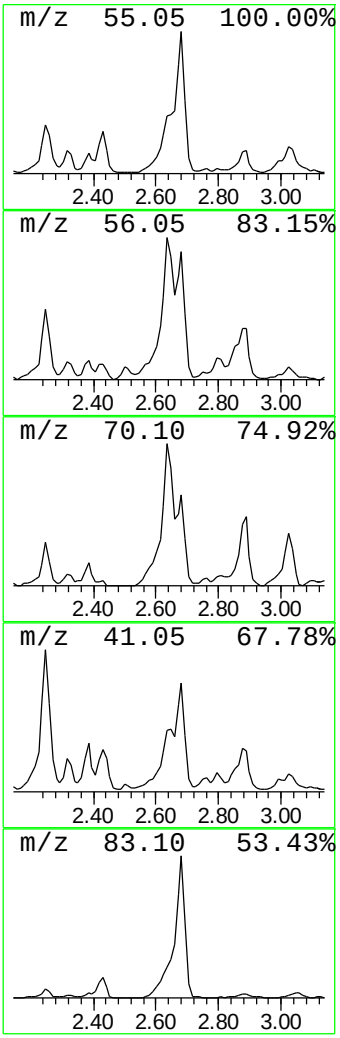
****

Peak Number 2 Cyclopentane, 1,2-dimethyl-... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.64	13.68 ng	629551	1,4-Dichlorobenzene-d4	6.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	87
2	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	87
3	Cyclopentane, 1,2-dimethyl-	98	C7H14	002452-99-5	64
4	Isopropylcyclobutane	98	C7H14	000872-56-0	64
5	2-Heptene	98	C7H14	000592-77-8	49





Library Search Compound Report

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
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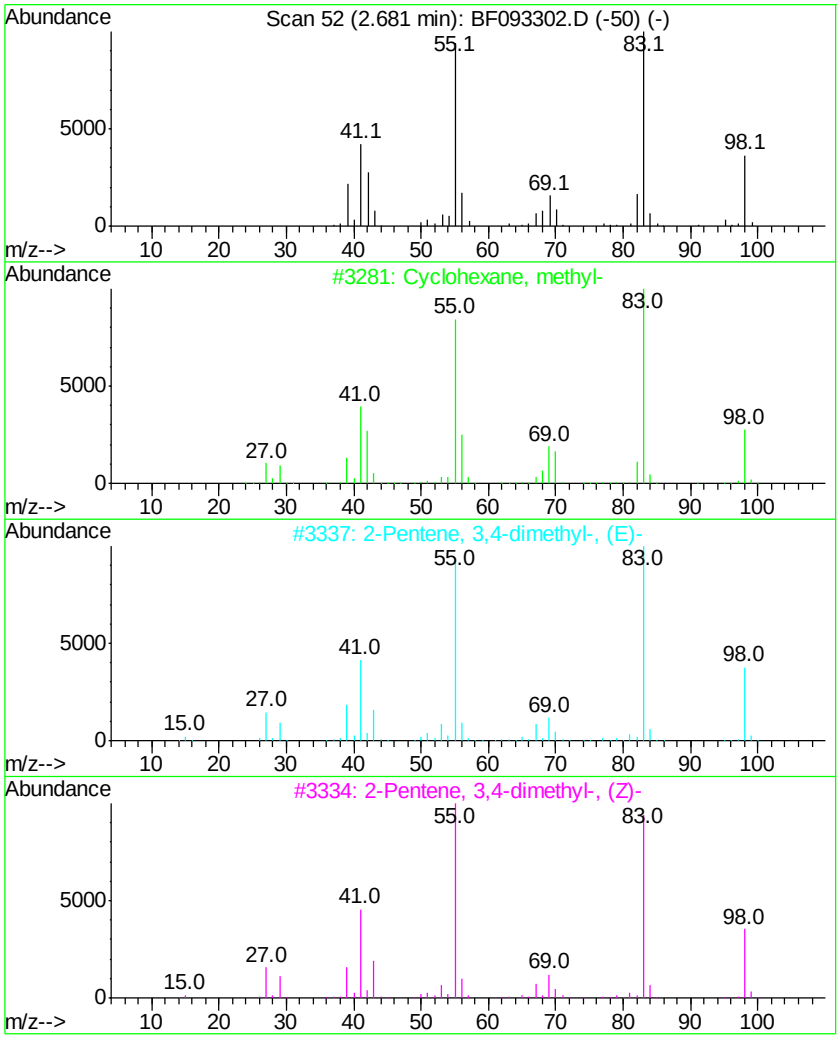
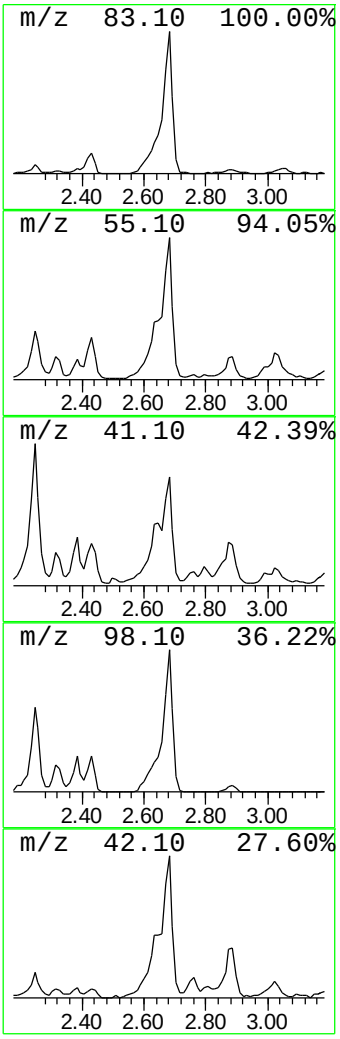
****

Peak Number 3 Cyclohexane, methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.68	13.92 ng	640438	1,4-Dichlorobenzene-d4	6.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	87
2	2-Pentene, 3,4-dimethyl-, (E)-	98	C7H14	004914-92-5	80
3	2-Pentene, 3,4-dimethyl-, (Z)-	98	C7H14	004914-91-4	80
4	2-Pentene, 4,4-dimethyl-, (Z)-	98	C7H14	000762-63-0	80
5	2-Pentene, 2,4-dimethyl-	98	C7H14	000625-65-0	72





Library Search Compound Report

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Acq On : 1 Mar 2017 21:12
Operator : SJ/MA
Sample : I2031-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 20170228-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

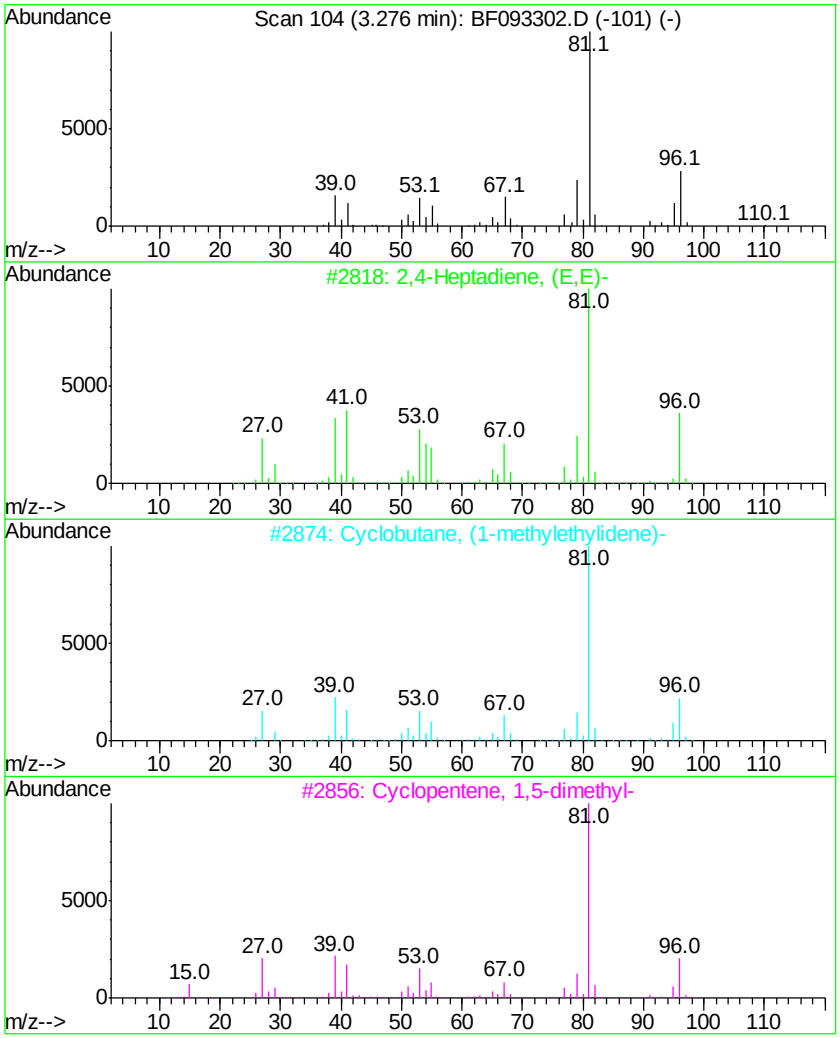
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

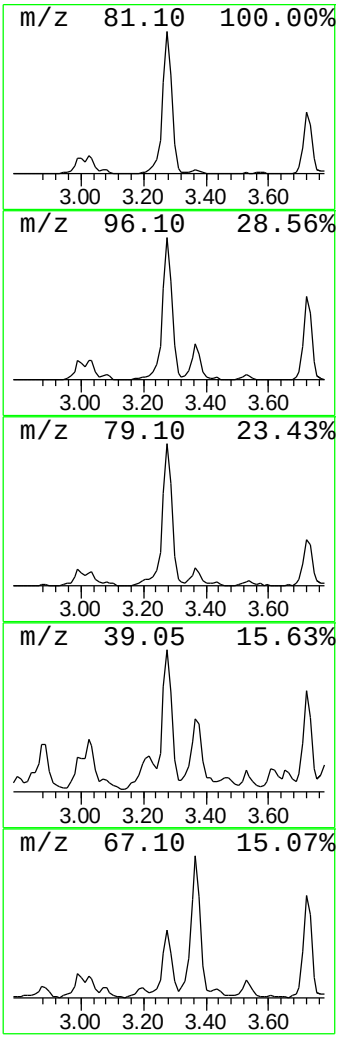
****

Peak Number 4 2,4-Heptadiene, (E,E)- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.28	14.49 ng	666758	1,4-Dichlorobenzene-d4	6.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4-Heptadiene, (E,E)-	96	C7H12	002384-94-3	91
2	Cyclobutane, (1-methylethylidene)-	96	C7H12	001528-22-9	90
3	Cyclopentene, 1,5-dimethyl-	96	C7H12	016491-15-9	86
4	Cyclopentene, 4,4-dimethyl-	96	C7H12	019037-72-0	80
5	Cyclopentane, 1-methyl-2-methylene-	96	C7H12	041158-41-2	80





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Operator : SJ/MA
Sample : I2031-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 20170228-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

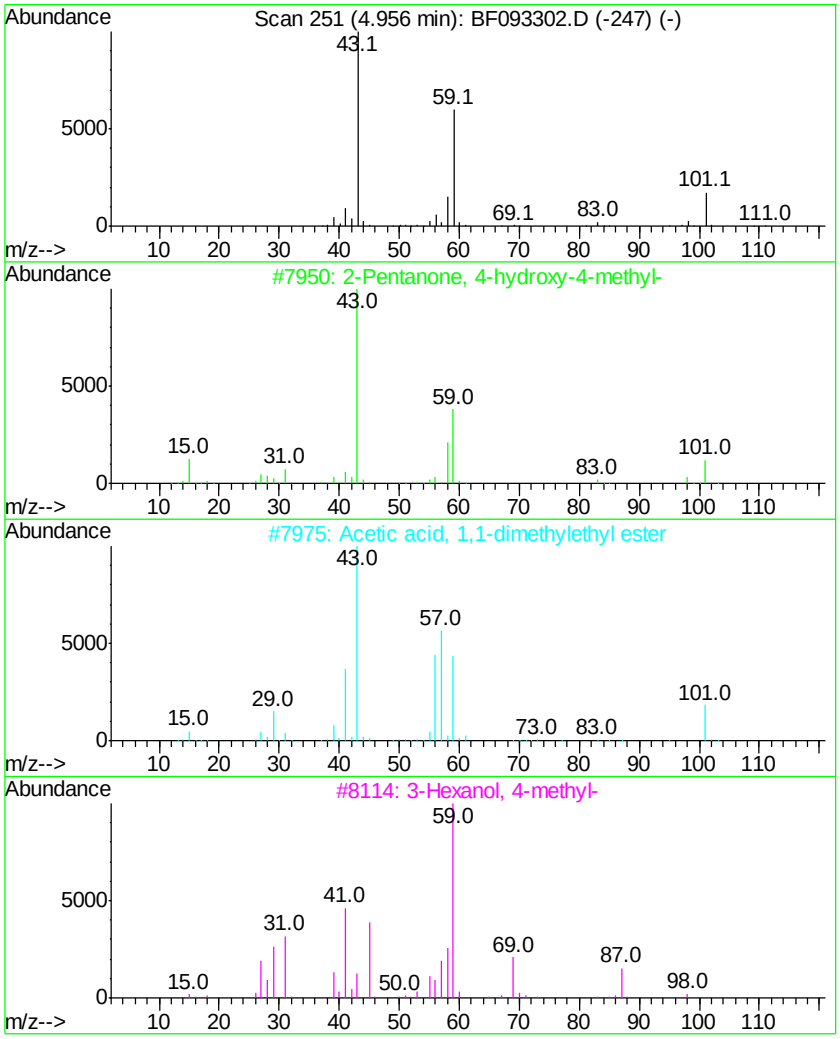
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

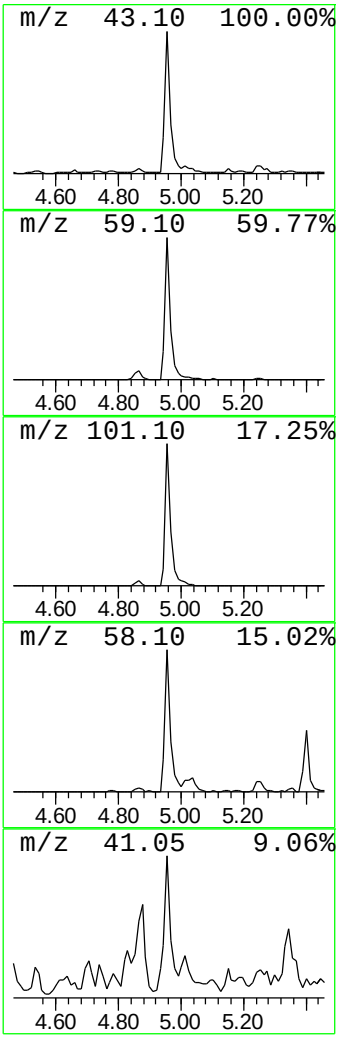
****

Peak Number 5 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.96	15.45 ng	710992	1,4-Dichlorobenzene-d4	6.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	53
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	39
3	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
4	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	33
5	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	32





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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.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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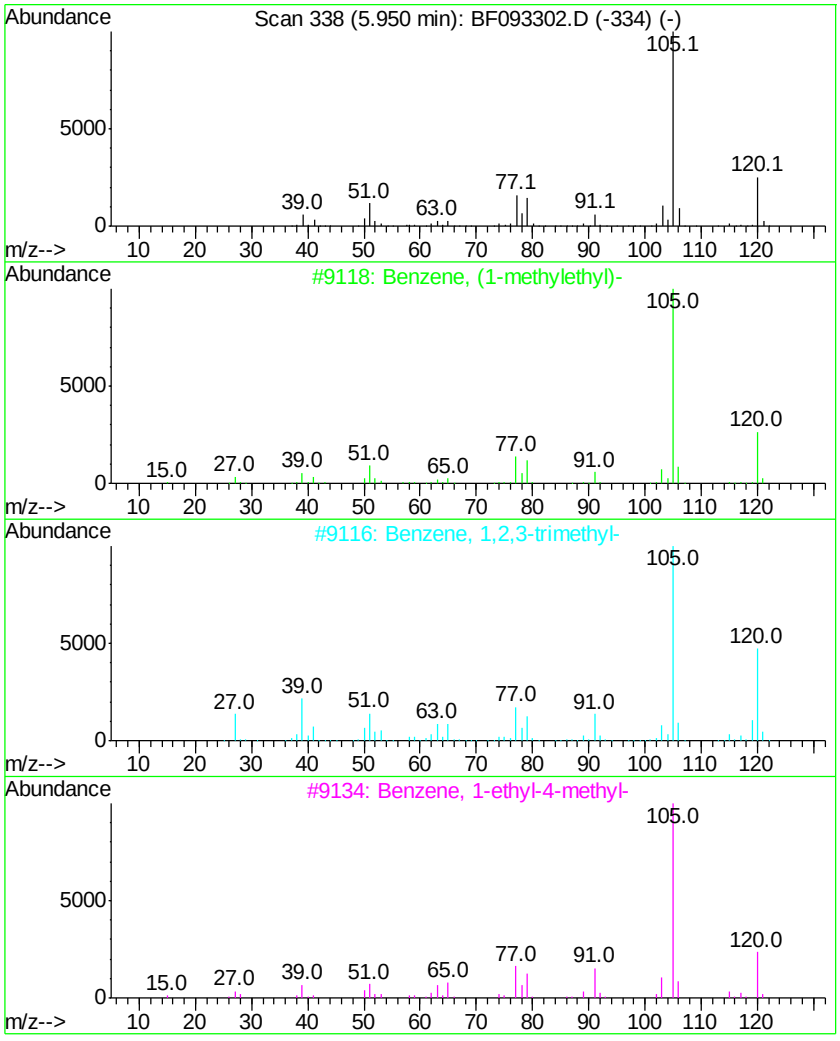
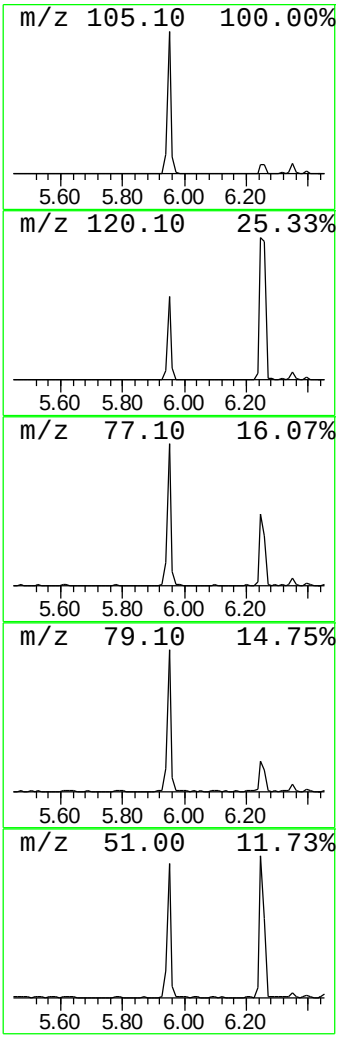
Peak Number 6 Benzene, (1-methylethyl)- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.95	40.18 ng	1848760	1,4-Dichlorobenzene-d4	6.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-methylethyl)-	120	C9H12	000098-82-8	94
2	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91
3	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	80
4	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	72
5	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	72





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Operator : SJ/MA
Sample : I2031-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 20170228-01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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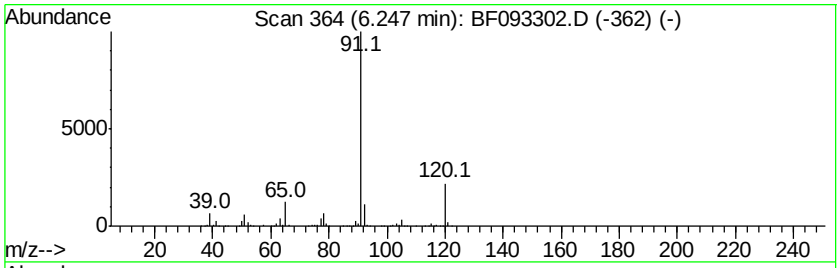
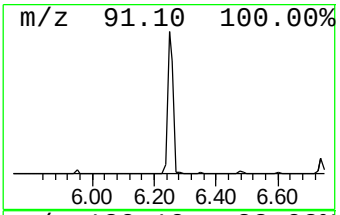
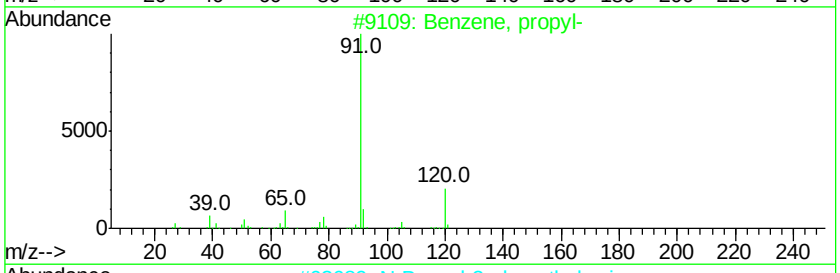
Peak Number 7 Benzene, propyl- Concentration Rank 2

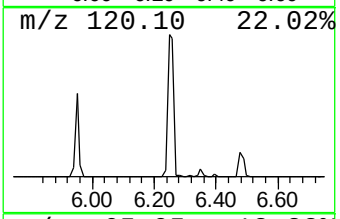
R.T.	EstConc	Area	Relative to ISTD	R.T.
6.25	89.70 ng	4127220	1,4-Dichlorobenzene-d4	6.81

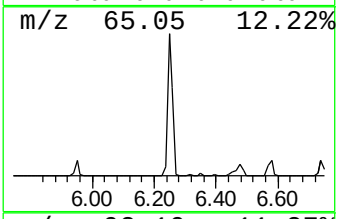
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, propyl-	120	C9H12	000103-65-1	90
2	N-Benzyl-2-phenethylamine	211	C15H17N	003647-71-0	78
3	1,2-Ethanediamine, N,N'-bis(phen...	240	C16H20N2	000140-28-3	72
4	Phenethylamine, N-benzyl-p-chloro-	245	C15H16ClN	013622-43-0	72
5	Benzeneacetaldehyde	120	C8H8O	000122-78-1	50

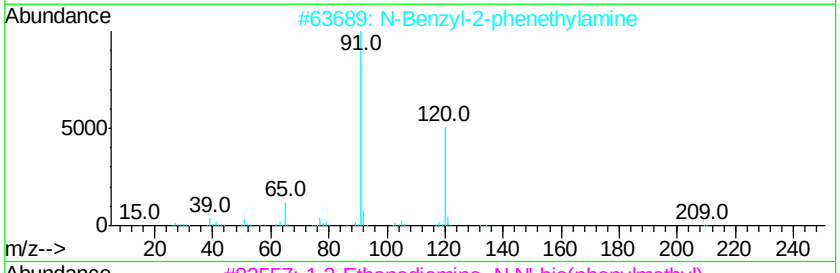


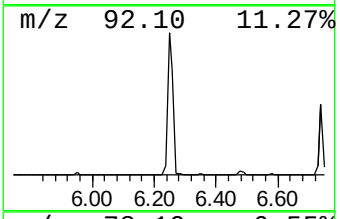


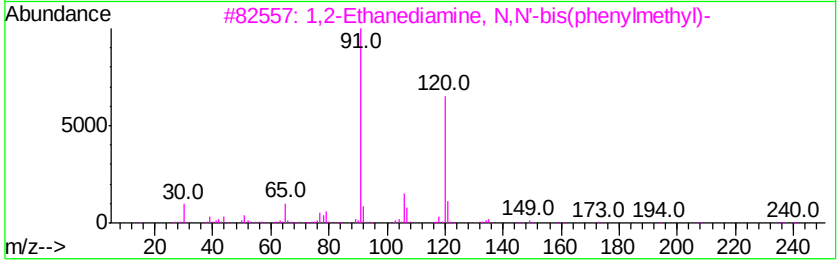


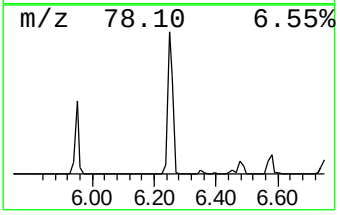












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Sample : I2031-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 20170228-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.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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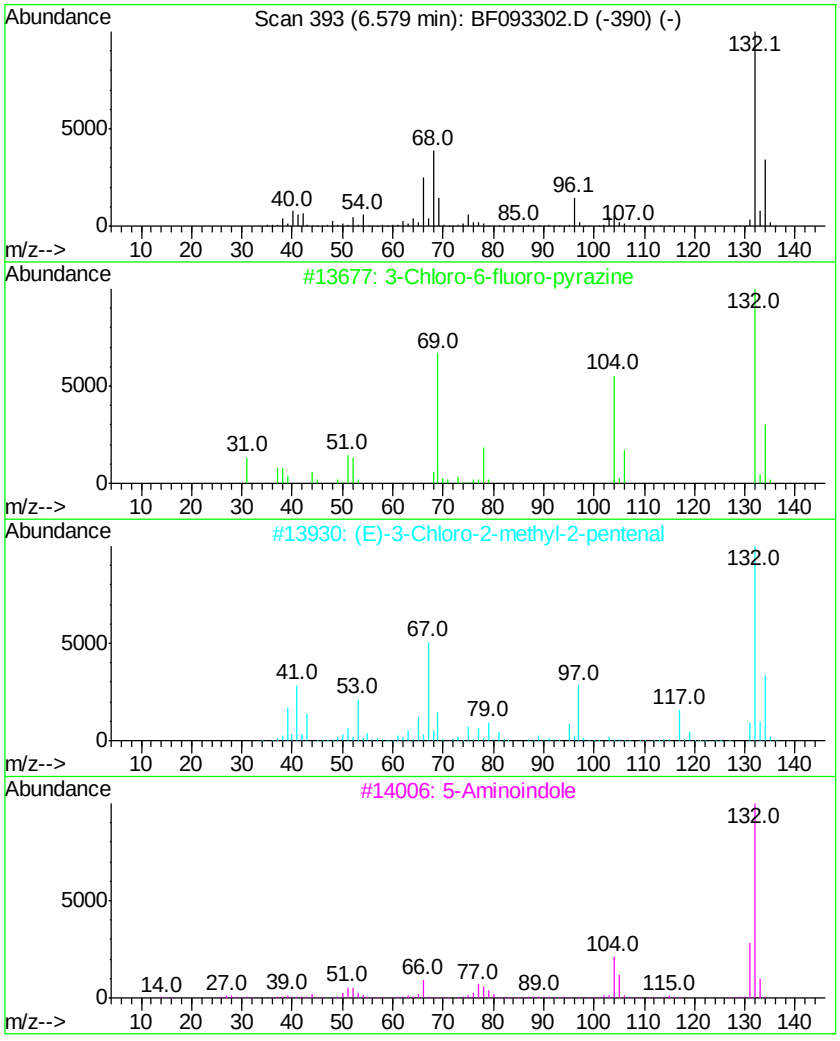
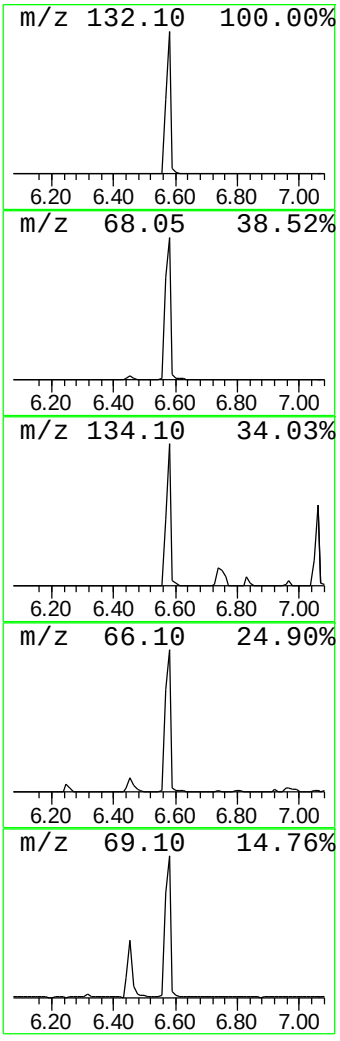
Peak Number 8 unknown6.58 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.58	84.26 ng	3876800	1,4-Dichlorobenzene-d4	6.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
3	5-Aminoindole	132	C8H8N2	005192-03-0	12
4	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
5	Benzene, 1,3,5-trifluoro-	132	C6H3F3	000372-38-3	9





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ClientSampleId : 20170228-01

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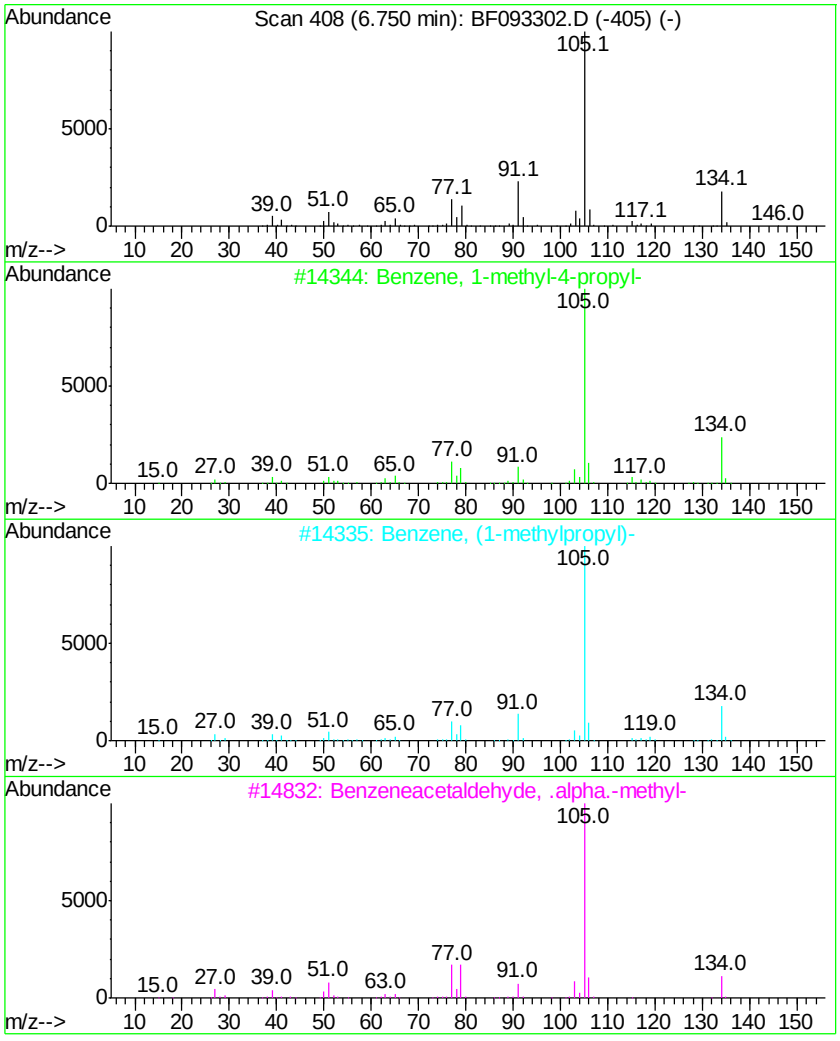
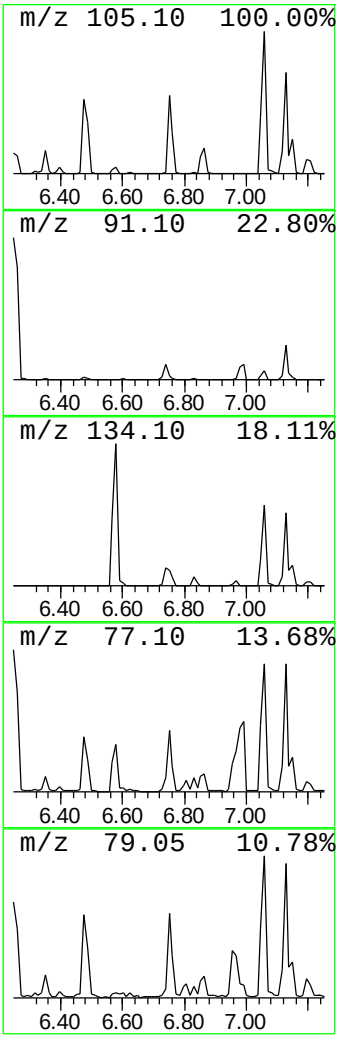
Peak Number 9 Benzene, 1-methyl-4-propyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.75	20.52 ng	944076	1,4-Dichlorobenzene-d4	6.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	91
2	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	90
3	Benzeneacetaldehyde, .alpha.-met...	134	C9H10O	000093-53-8	83
4	2-Indanol	134	C9H10O	004254-29-9	72
5	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	72





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Sample : I2031-01
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TIC Library : C:\DATABASE\NIST02.L
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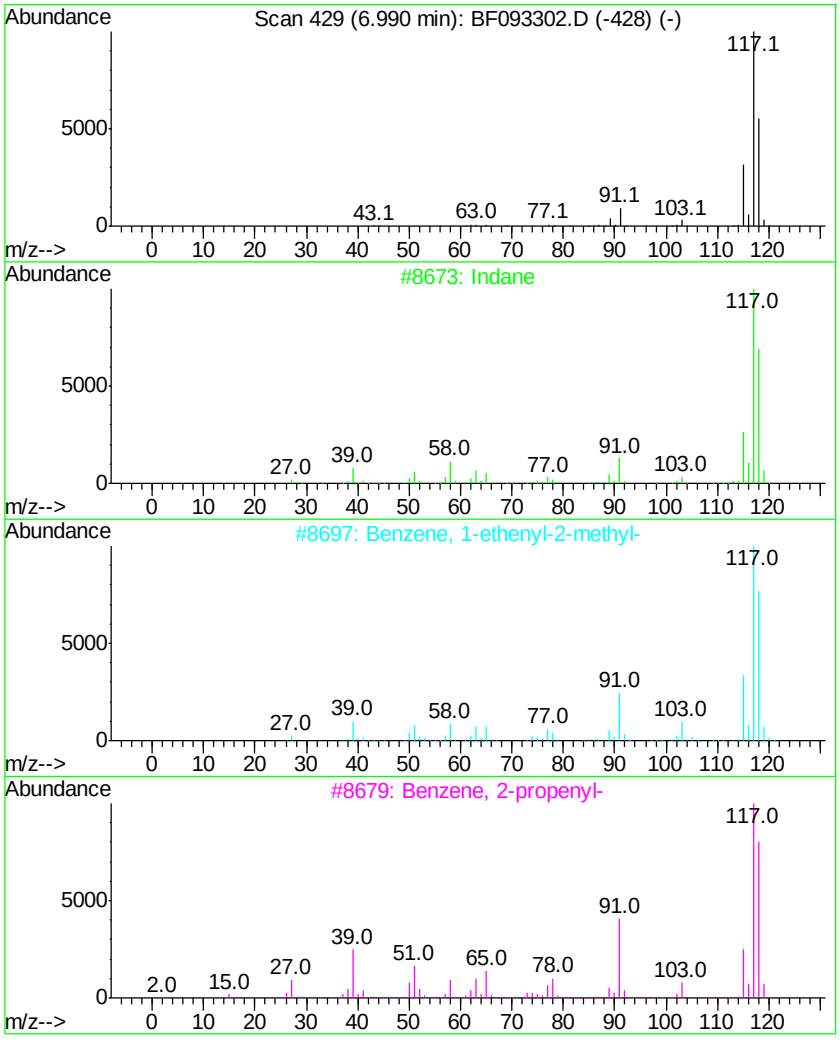
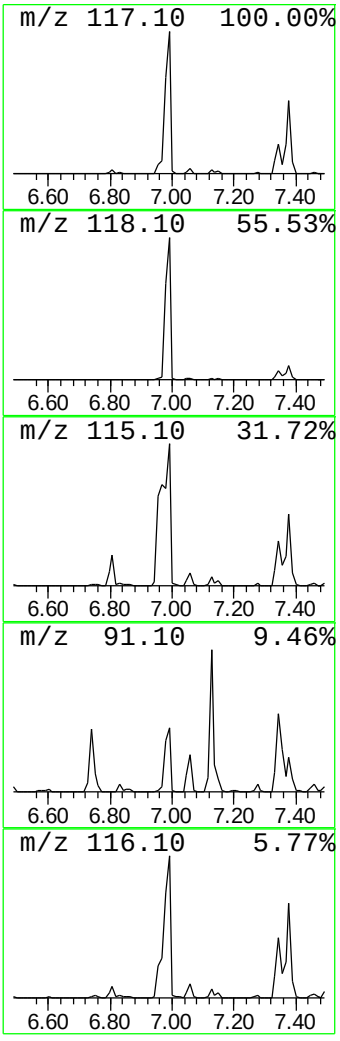
Peak Number 11 Indane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.99	50.67 ng	2331570	1,4-Dichlorobenzene-d4	6.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	50
2	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	38
3	Benzene, 2-propenyl-	118	C9H10	000300-57-2	38
4	Benzene, 1-propenyl-	118	C9H10	000637-50-3	38
5	Benzene, cyclopropyl-	118	C9H10	000873-49-4	9





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TIC Integration Parameters: LSCINT.P

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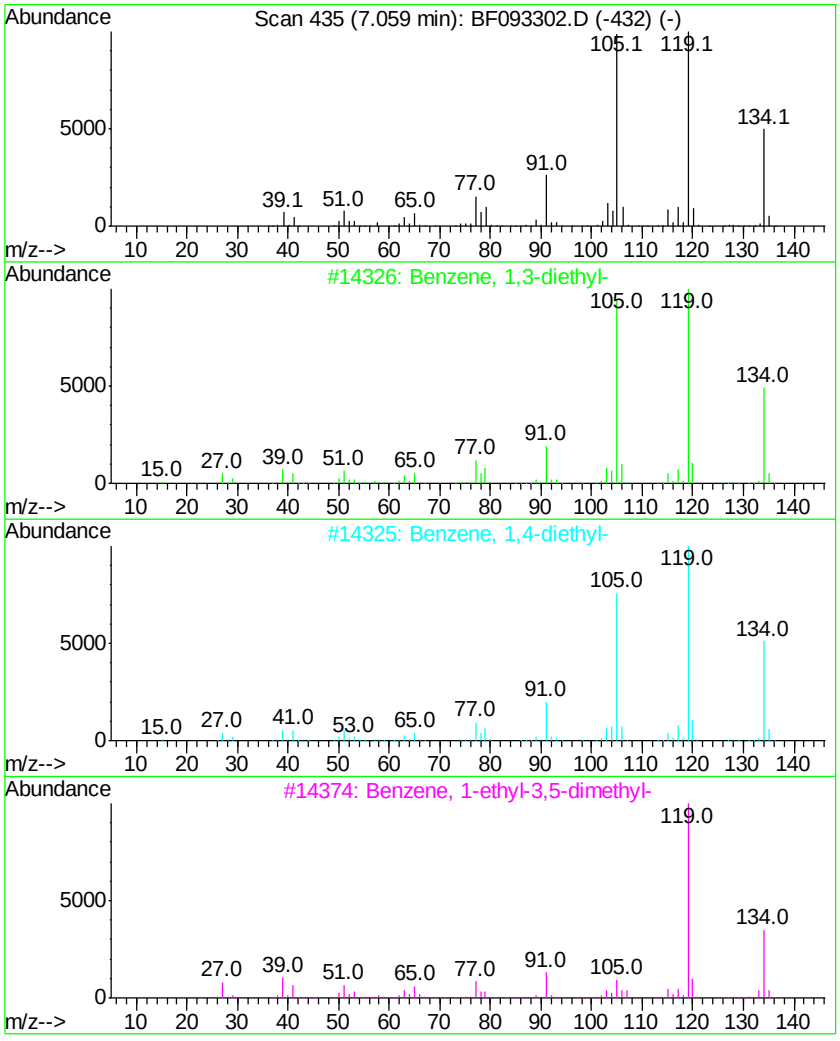
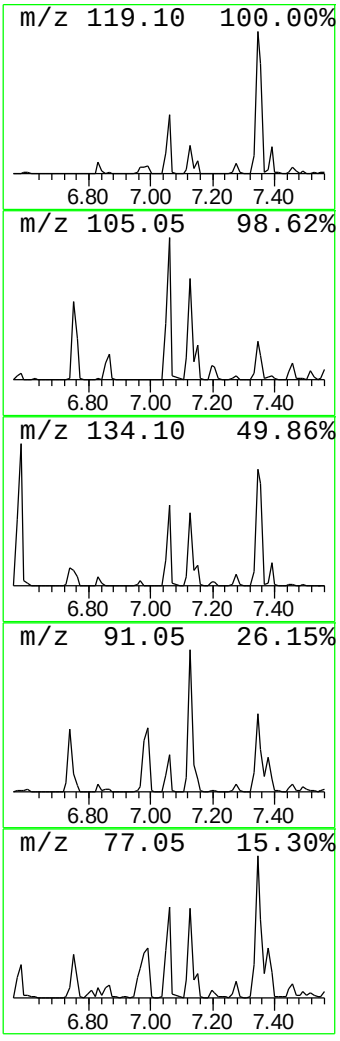
Peak Number 12 Benzene, 1,3-diethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.06	37.59 ng	1729660	1,4-Dichlorobenzene-d4	6.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	96
2	Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	95
3	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	90
4	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	87
5	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	86





Library Search Compound Report

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

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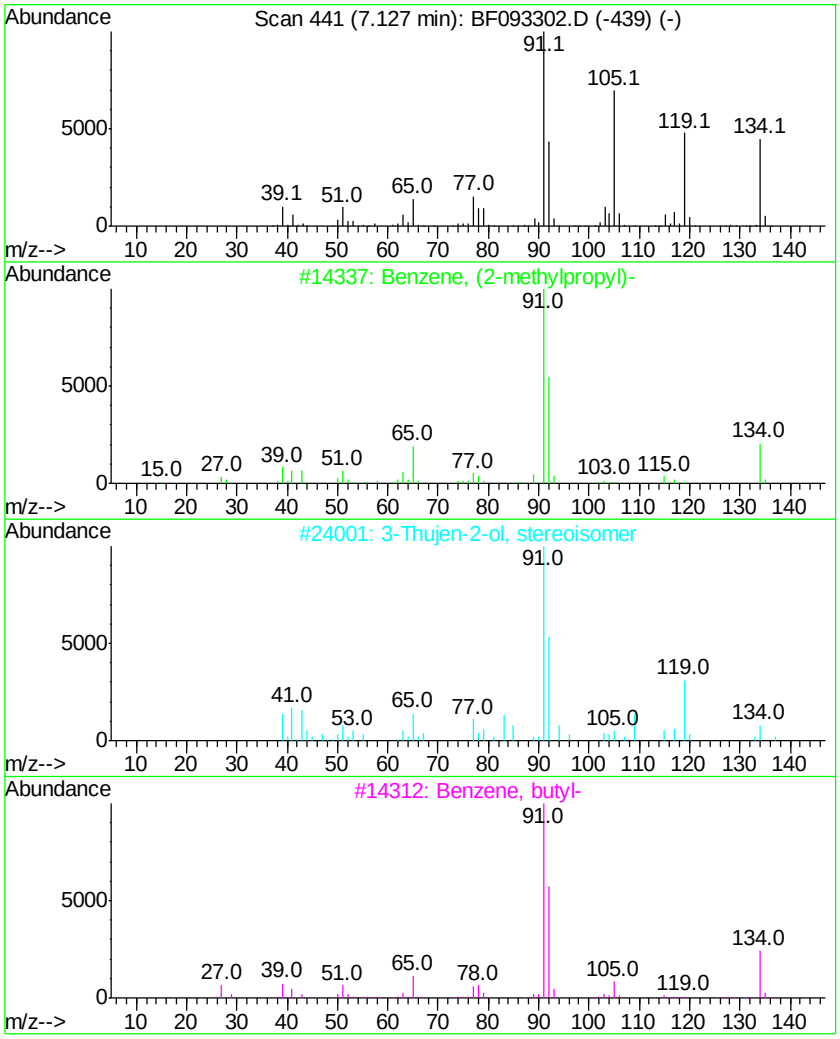
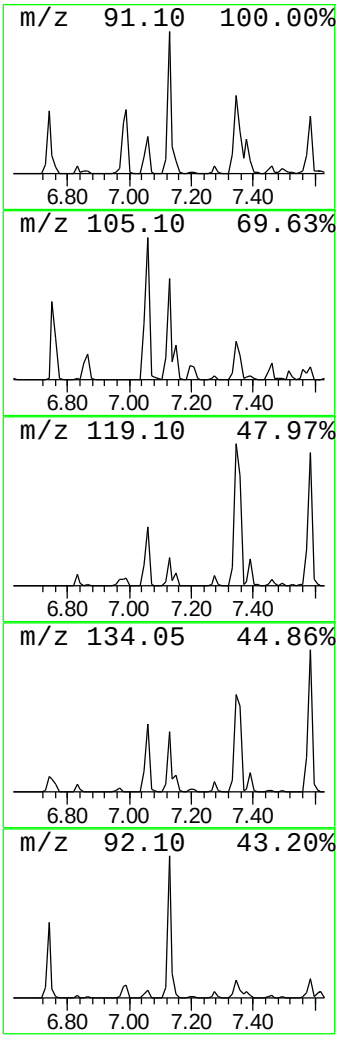
Peak Number 13 Benzene, (2-methylpropyl)- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.13	45.09 ng	2074750	1,4-Dichlorobenzene-d4	6.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2-methylpropyl)-	134	C10H14	000538-93-2	53
2	3-Thujen-2-ol, stereoisomer	152	C10H16O	003310-03-0	50
3	Benzene, butyl-	134	C10H14	000104-51-8	49
4	Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	38
5	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	30





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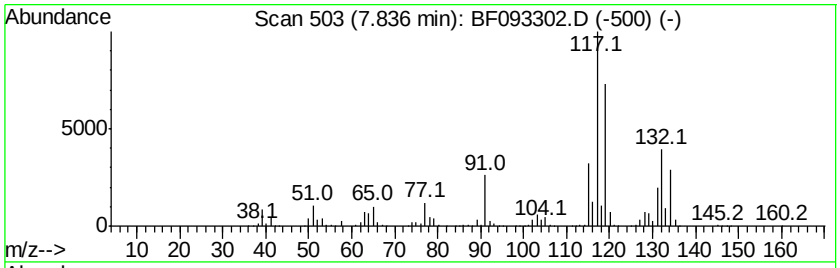
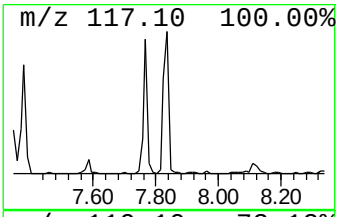
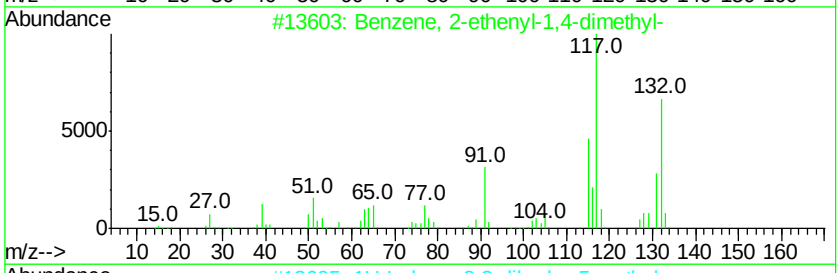
Peak Number 14 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 10

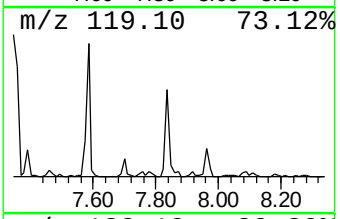
R.T.	EstConc	Area	Relative to ISTD	R.T.
7.84	20.57 ng	4578640	Naphthalene-d8	8.10

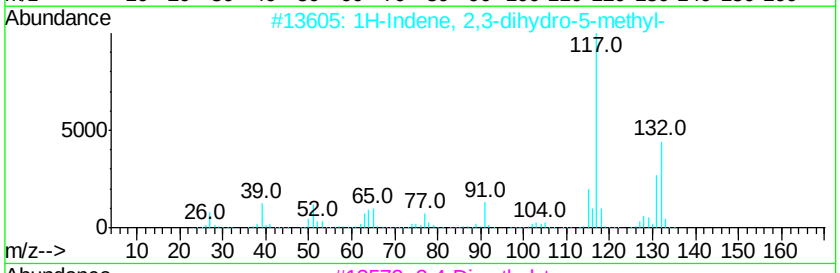
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	95
2	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	90
3	2,4-Dimethylstyrene	132	C10H12	002234-20-0	83
4	3-Phenylbut-1-ene	132	C10H12	000934-10-1	64
5	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	64

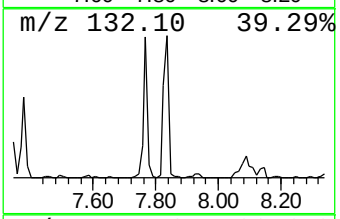


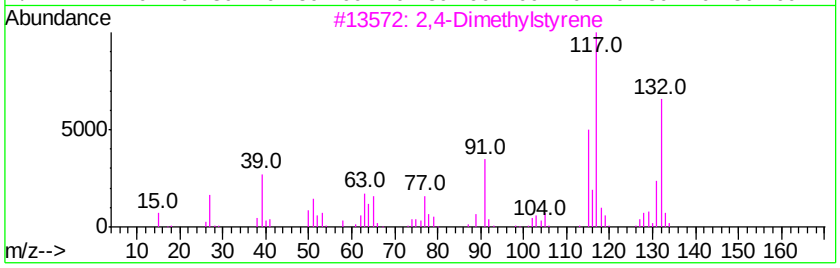


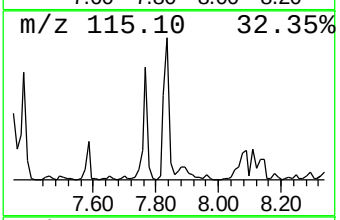


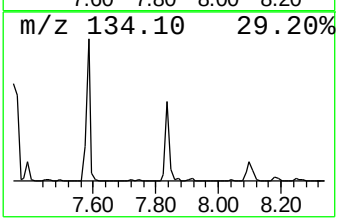












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TIC Integration Parameters: LSCINT.P

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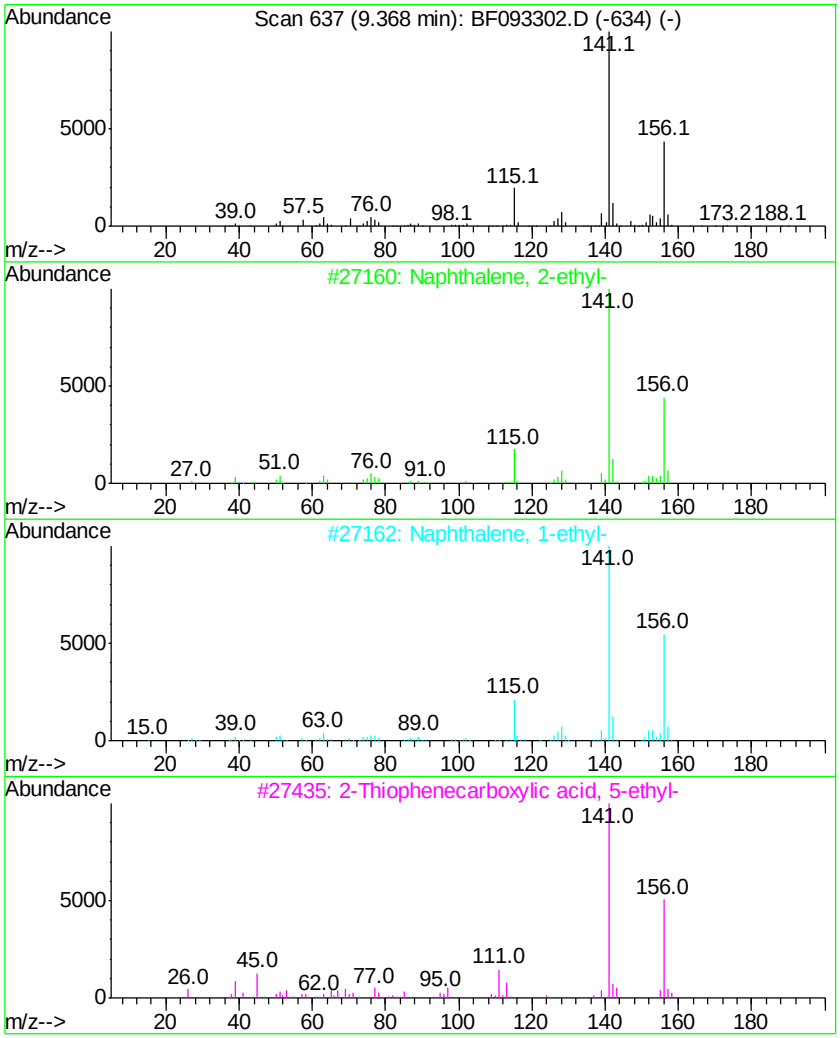
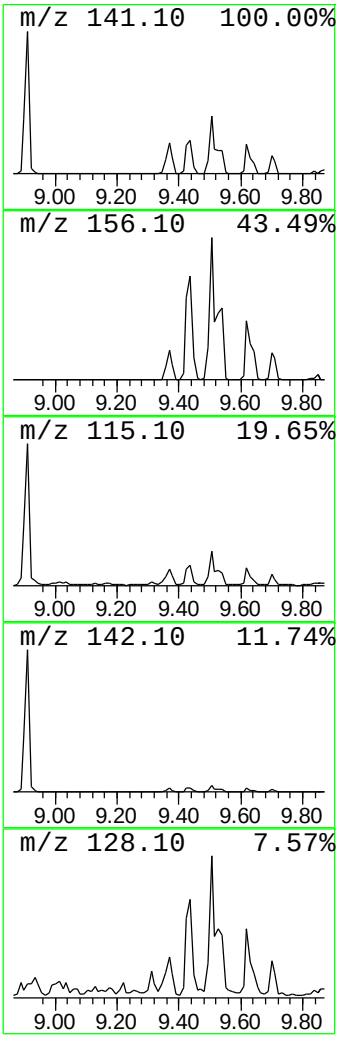
Peak Number 16 Naphthalene, 2-ethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.37	16.07 ng	1156090	Acenaphthene-d10	9.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	97
2	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	97
3	2-Thiophenecarboxylic acid, 5-et...	156	C7H8O2S	023229-72-3	72
4	3',4'-Difluoroacetophenone	156	C8H6F2O	000369-33-5	64
5	Naphthalene, 1-propyl-	170	C13H14	002765-18-6	53





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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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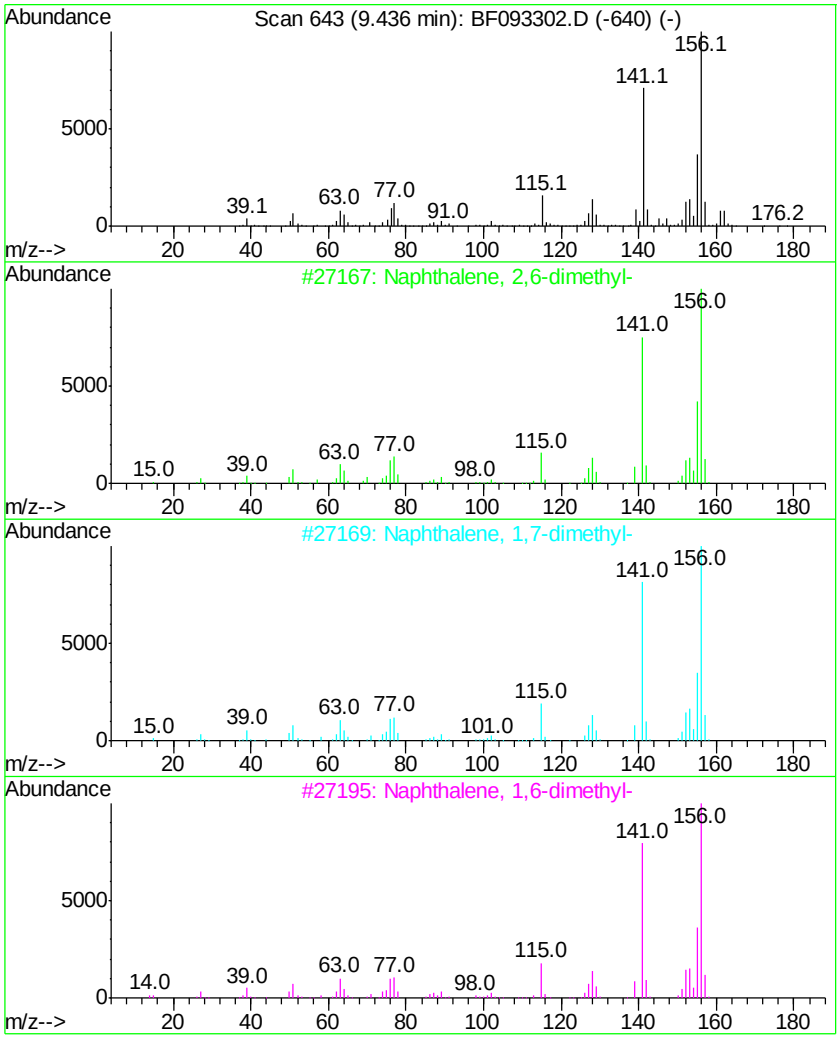
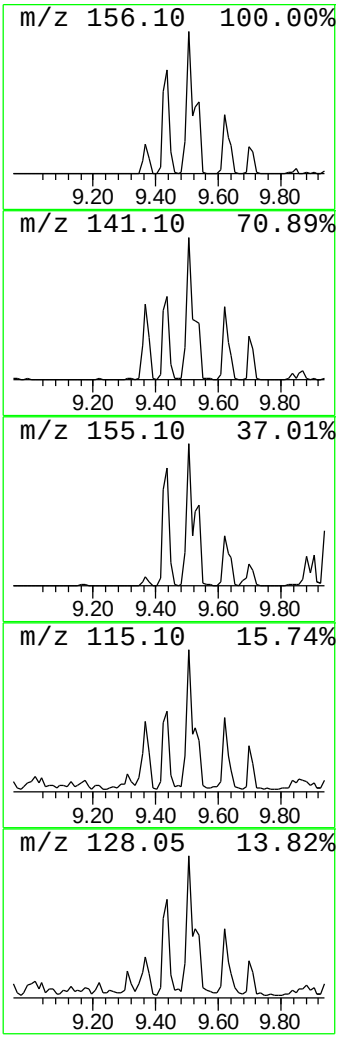
Peak Number 17 Naphthalene, 2,6-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.44	34.09 ng	2452050	Acenaphthene-d10	9.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	98
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	98
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	98
4	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
5	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96





Data Path : Z:\HPCHEM1\BNA F\DATA\BF030117\
Data File : BF093302.D
Acq On : 1 Mar 2017 21:12
Operator : SJ/MA
Sample : I2031-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 20170228-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.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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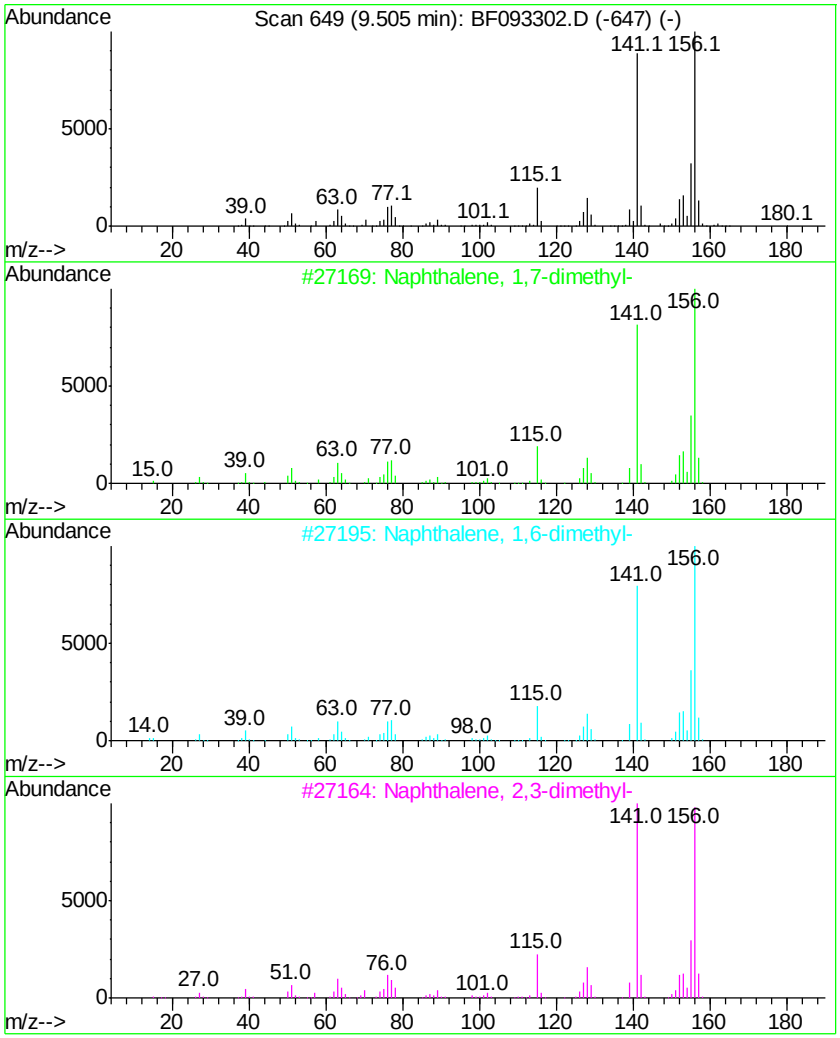
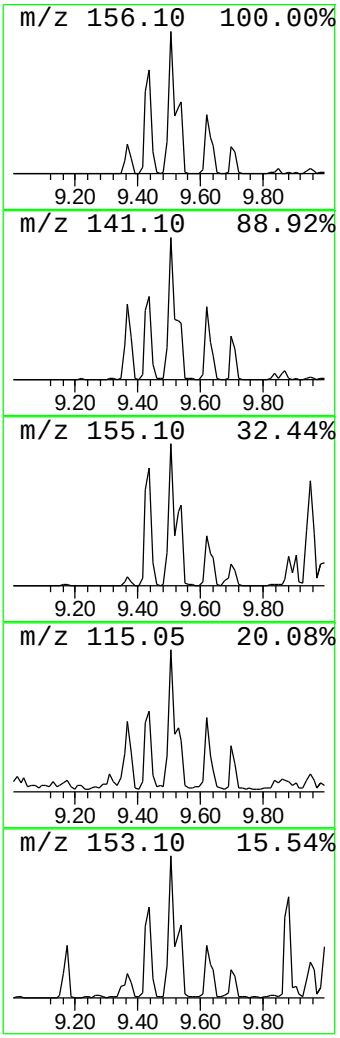
Peak Number 18 Naphthalene, 1,7-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.50	34.87 ng	2508260	Acenaphthene-d10	9.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	98
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	98
3	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
5	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97





Data Path : Z:\HPCHEM1\BNA F\DATA\BF030117\
Data File : BF093302.D
Acq On : 1 Mar 2017 21:12
Operator : SJ/MA
Sample : I2031-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 20170228-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.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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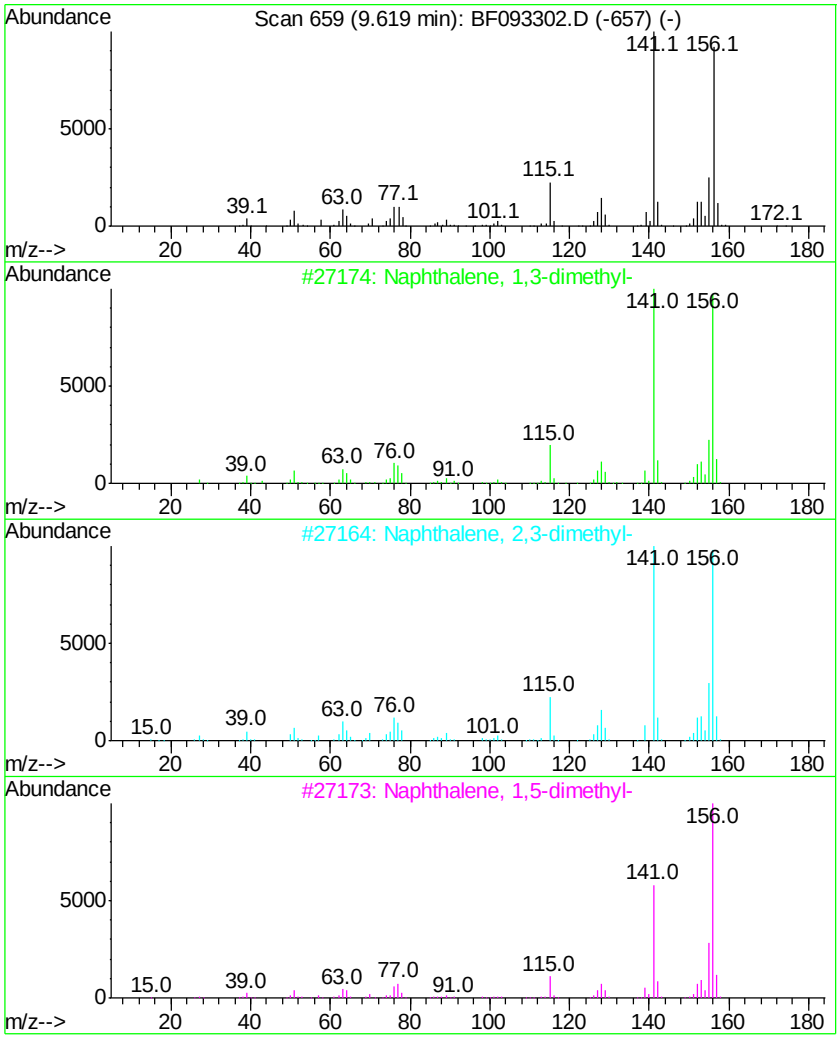
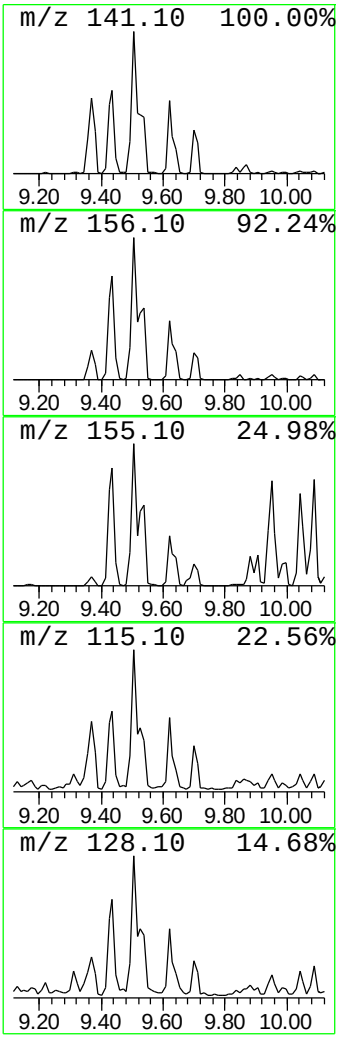
Peak Number 19 Naphthalene, 1,3-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.62	19.30 ng	1388510	Acenaphthene-d10	9.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	98
2	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
3	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
5	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97





Data Path : Z:\HPCHEM1\BNA F\DATA\BF030117\
Data File : BF093302.D
Acq On : 1 Mar 2017 21:12
Operator : SJ/MA
Sample : I2031-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 20170228-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.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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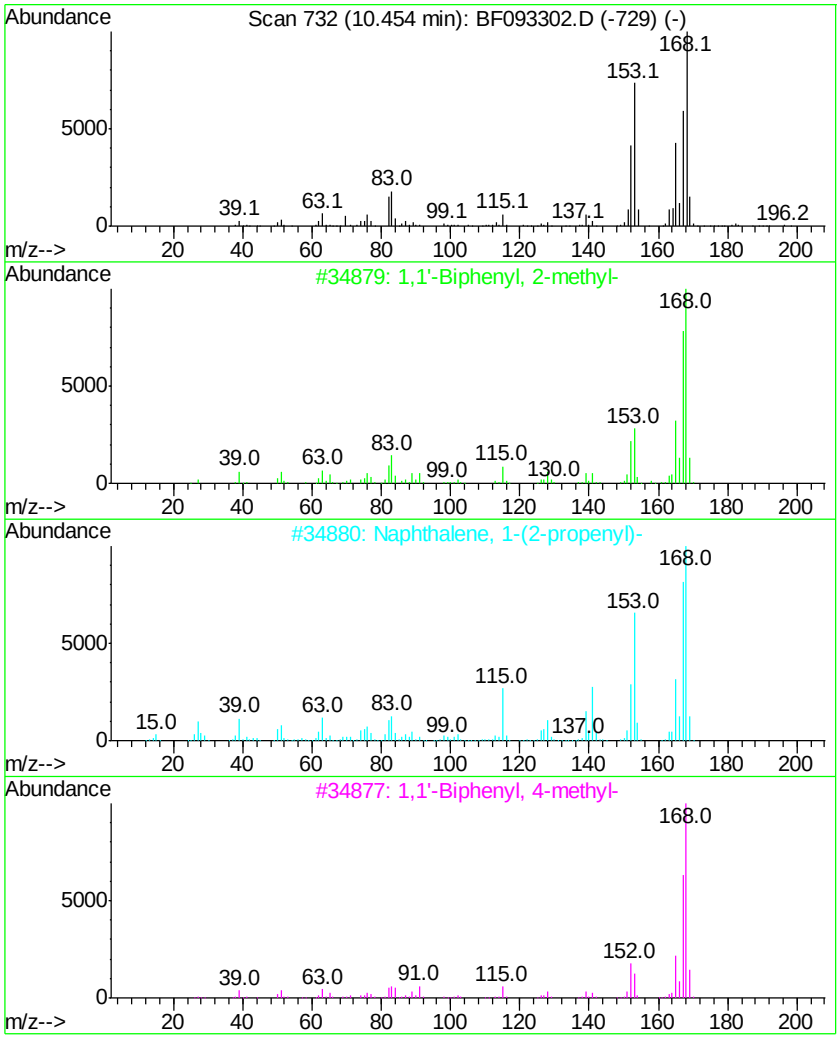
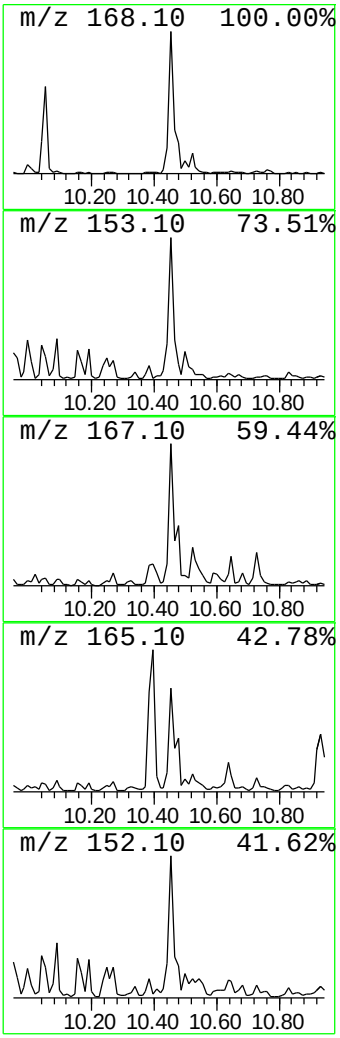
Peak Number 20 1,1'-Biphenyl, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.45	15.16 ng	1090810	Acenaphthene-d10	9.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	70
2	Naphthalene, 1-(2-propenyl)-	168	C13H12	002489-86-3	68
3	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	52
4	Naphthalene, 2-(1-methylethenyl)-	168	C13H12	003710-23-4	50
5	Benzene, [1-(2,4-cyclopentadien-...	168	C13H12	002320-32-3	50





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF030117\
Data File : BF093302.D
Acq On : 1 Mar 2017 21:12
Operator : SJ/MA
Sample : I2031-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 20170228-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.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
2-Hexene, 2-methyl-	2.25	18.6	ng	854152	1	6.81	920226	20.0
Cyclopentane, 1,2...	2.64	13.7	ng	629551	1	6.81	920226	20.0
Cyclohexane, methyl-	2.68	13.9	ng	640438	1	6.81	920226	20.0
2,4-Heptadiene, (...	3.28	14.5	ng	666758	1	6.81	920226	20.0
2-Pentanone, 4-hy...	4.96	15.4	ng	710992	1	6.81	920226	20.0
Benzene, (1-methy...	5.95	40.2	ng	1848760	1	6.81	920226	20.0
Benzene, propyl-	6.25	89.7	ng	4127220	1	6.81	920226	20.0
unknown6.58	6.58	84.3	ng	3876800	1	6.81	920226	20.0
Benzene, 1-methyl...	6.75	20.5	ng	944076	1	6.81	920226	20.0
Indane	6.99	50.7	ng	2331570	1	6.81	920226	20.0
Benzene, 1,3-diet...	7.06	37.6	ng	1729660	1	6.81	920226	20.0
Benzene, (2-methy...	7.13	45.1	ng	2074750	1	6.81	920226	20.0
Benzene, 2-etheny...	7.84	20.6	ng	4578640	2	8.10	4451900	20.0
Naphthalene, 2-et...	9.37	16.1	ng	1156090	3	9.85	1438650	20.0
Naphthalene, 2,6-...	9.44	34.1	ng	2452050	3	9.85	1438650	20.0
Naphthalene, 1,7-...	9.50	34.9	ng	2508260	3	9.85	1438650	20.0
Naphthalene, 1,3-...	9.62	19.3	ng	1388510	3	9.85	1438650	20.0
1,1'-Biphenyl, 2-...	10.45	15.2	ng	1090810	3	9.85	1438650	20.0