LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF013017\
Data File : BF092660.D
Acq On : 31 Jan 2017 3:27
Operator : SJ/MA
Sample : I1593-09 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B2-8

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	5.139	264	267	270	rBV	937832	1047860	38.52%	2.988%
2	5.527	296	301	302	rBV	27546	49941	1.84%	0.142%
3	5.573	302	305	307	rVB	1981169	2472038	90.87%	7.049%
4	5.710	315	317	319	rBV	20319	35490	1.30%	0.101%
5	5.790	322	324	328	rBV3	18411	36043	1.32%	0.103%
6	5.847	328	329	332	rVB2	18380	27241	1.00%	0.078%
7	5.962	336	339	341	rBV2	51285	85652	3.15%	0.244%
8	6.019	341	344	345	rBV	30308	45760	1.68%	0.130%
9	6.099	349	351	354	rVB2	60300	75324	2.77%	0.215%
10	6.144	354	355	357	rBV	27619	35693	1.31%	0.102%
11	6.202	357	360	363	rBV4	79208	176804	6.50%	0.504%
12	6.247	363	364	366	rVB	63825	62987	2.32%	0.180%
13	6.293	366	368	374	rVB3	39364	112671	4.14%	0.321%
14	6.384	374	376	378	rBV2	87016	138377	5.09%	0.395%
15	6.453	378	382	383	rVB2	45725	81552	3.00%	0.233%
16	6.487	383	385	389	rBV2	176809	318618	11.71%	0.909%
17	6.602	392	395	399	rVB	2595067	2720455	100.00%	7.757%
18	6.727	404	406	409	rVV	2265716	2394135	88.00%	6.827%
19	6.796	409	412	415	rVB3	114449	227559	8.36%	0.649%
20	6.922	415	423	424	rBV5	110412	326276	11.99%	0.930%
21	6.956	424	426	429	rVV2	890013	1192453	43.83%	3.400%
22	7.036	430	433	435	rVV2	272132	416569	15.31%	1.188%
23	7.070	435	436	438	rVV	117810	157147	5.78%	0.448%
24	7.116	438	440	445	rVV	1991802	2017283	74.15%	5.752%
25	7.184	445	446	448	rVV2	53179	76657	2.82%	0.219%
26	7.230	448	450	452	rVB2	163328	202275	7.44%	0.577%
27	7.265	452	453	455	rBV2	51857	67359	2.48%	0.192%
28	7.299	455	456	458	rVV2	49171	71780	2.64%	0.205%
29	7.356	458	461	462	rVV3	196283	245394	9.02%	0.700%
30	7.390	462	464	467	rVV3	100402	161991	5.95%	0.462%
31	7.436	467	468	470	rVV2	32868	42797	1.57%	0.122%
32	7.493	470	473	474	rVV3	137733	288314	10.60%	0.822%
33	7.527	474	476	478	rVV	1721967	1621160	59.59%	4.623%
34	7.562	478	479	481	rVB	156968	124272	4.57%	0.354%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF013017\
Data File : BF092660.D
Acq On : 31 Jan 2017 3:27
Operator : SJ/MA
Sample : I1593-09 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B2-8

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	7.607	481	483	485	rVB2	149511	200449	7.37%	0.572%
36	7.665	485	488	491	rBV3	60455	162398	5.97%	0.463%
37	7.722	491	493	494	rVV	35208	60184	2.21%	0.172%
38	7.745	494	495	496	rVV	106099	89972	3.31%	0.257%
39	7.767	496	497	501	rVB2	116955	129722	4.77%	0.370%
40	7.882	501	507	510	rBV5	101417	289265	10.63%	0.825%
41	7.996	515	517	520	rVV3	82761	116665	4.29%	0.333%
42	8.065	522	523	526	rVB3	45685	61171	2.25%	0.174%
43	8.122	526	528	530	rBV2	43338	67765	2.49%	0.193%
44	8.202	532	535	536	rVV3	35896	70774	2.60%	0.202%
45	8.247	537	539	543	rVV	1067323	1286833	47.30%	3.669%
46	8.305	543	544	546	rVV	130185	110732	4.07%	0.316%
47	8.339	546	547	551	rVB4	42458	64036	2.35%	0.183%
48	8.407	551	553	554	rBV	80379	107328	3.95%	0.306%
49	8.453	556	557	558	rVB	60672	41621	1.53%	0.119%
50	8.545	561	565	567	rBV4	63478	143325	5.27%	0.409%
51	8.590	567	569	571	rBV3	33707	44330	1.63%	0.126%
52	8.636	571	573	574	rVB2	27586	35228	1.29%	0.100%
53	8.670	574	576	577	rBV	147203	135364	4.98%	0.386%
54	8.750	581	583	585	rBV3	32412	36284	1.33%	0.103%
55	8.796	585	587	589	rBV2	37527	70879	2.61%	0.202%
56	8.842	589	591	592	rBV2	50487	55768	2.05%	0.159%
57	8.933	597	599	601	rVB3	46458	59436	2.18%	0.169%
58	9.002	603	605	606	rVB2	25148	31689	1.16%	0.090%
59	9.025	606	607	612	rBV4	38642	90368	3.32%	0.258%
60	9.128	614	616	617	rBV	33237	39478	1.45%	0.113%
61	9.162	617	619	621	rVB3	30983	41584	1.53%	0.119%
62	9.242	625	626	627	rBV	38782	29398	1.08%	0.084%
63	9.265	627	628	631	rBV	66425	80033	2.94%	0.228%
64	9.322	631	633	636	rVB	1647101	2015699	74.09%	5.748%
65	9.402	638	640	643	rBV2	88150	140680	5.17%	0.401%
66	9.642	659	661	662	rBV	42208	48520	1.78%	0.138%
67	9.722	666	668	670	rBV	234690	267789	9.84%	0.764%
68	9.870	678	681	682	rBV3	111217	135671	4.99%	0.387%
69	9.916	683	685	689	rVV3	158406	248520	9.14%	0.709%
70	10.008	689	693	695	rVV	1348776	1206125	44.34%	3.439%
71	10.042	695	696	698	rVV2	68043	66102	2.43%	0.188%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF013017\
Data File : BF092660.D
Acq On : 31 Jan 2017 3:27
Operator : SJ/MA
Sample : I1593-09 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B2-8

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

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Peak separation: 5

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

72	10.111	700	702	704	rBV2	26429	40128	1.48%	0.114%
73	10.328	718	721	724	rBV4	37084	94941	3.49%	0.271%
74	10.373	724	725	727	rVV2	36644	34929	1.28%	0.100%
75	10.408	727	728	731	rVV3	71656	135505	4.98%	0.386%
76	10.556	739	741	744	rBV3	42859	83886	3.08%	0.239%
77	10.648	747	749	753	rBV2	47986	111654	4.10%	0.318%
78	10.796	759	762	764	rBV	1114992	1044200	38.38%	2.977%
79	10.922	770	773	776	rVB	106789	197211	7.25%	0.562%
80	10.991	777	779	780	rBV2	48450	53743	1.98%	0.153%
81	11.231	798	800	801	rBV2	96490	124560	4.58%	0.355%
82	11.493	821	823	828	rBV	974202	1066028	39.19%	3.040%
83	11.608	831	833	834	rBV2	113584	173619	6.38%	0.495%
84	12.236	886	888	890	rBV3	148183	198379	7.29%	0.566%
85	12.351	897	898	899	rVB	157126	107710	3.96%	0.307%
86	12.442	904	906	908	rVB2	173810	187909	6.91%	0.536%
87	12.716	928	930	932	rBV	288300	265224	9.75%	0.756%
88	12.751	932	933	934	rVV	168208	126035	4.63%	0.359%
89	13.082	960	962	964	rBV	1348392	1201959	44.18%	3.427%
90	13.974	1037	1040	1045	rBV3	355920	1120083	41.17%	3.194%
91	14.134	1051	1054	1058	rVB3	800470	1504297	55.30%	4.289%
92	14.522	1086	1088	1090	rVB	319366	344048	12.65%	0.981%
93	15.620	1182	1184	1194	rVB2	507763	1032422	37.95%	2.944%
94	16.317	1243	1245	1250	rVB2	238536	462053	16.98%	1.318%
95	17.346	1332	1335	1339	rBV2	143025	322753	11.86%	0.920%

Sum of corrected areas: 35070388

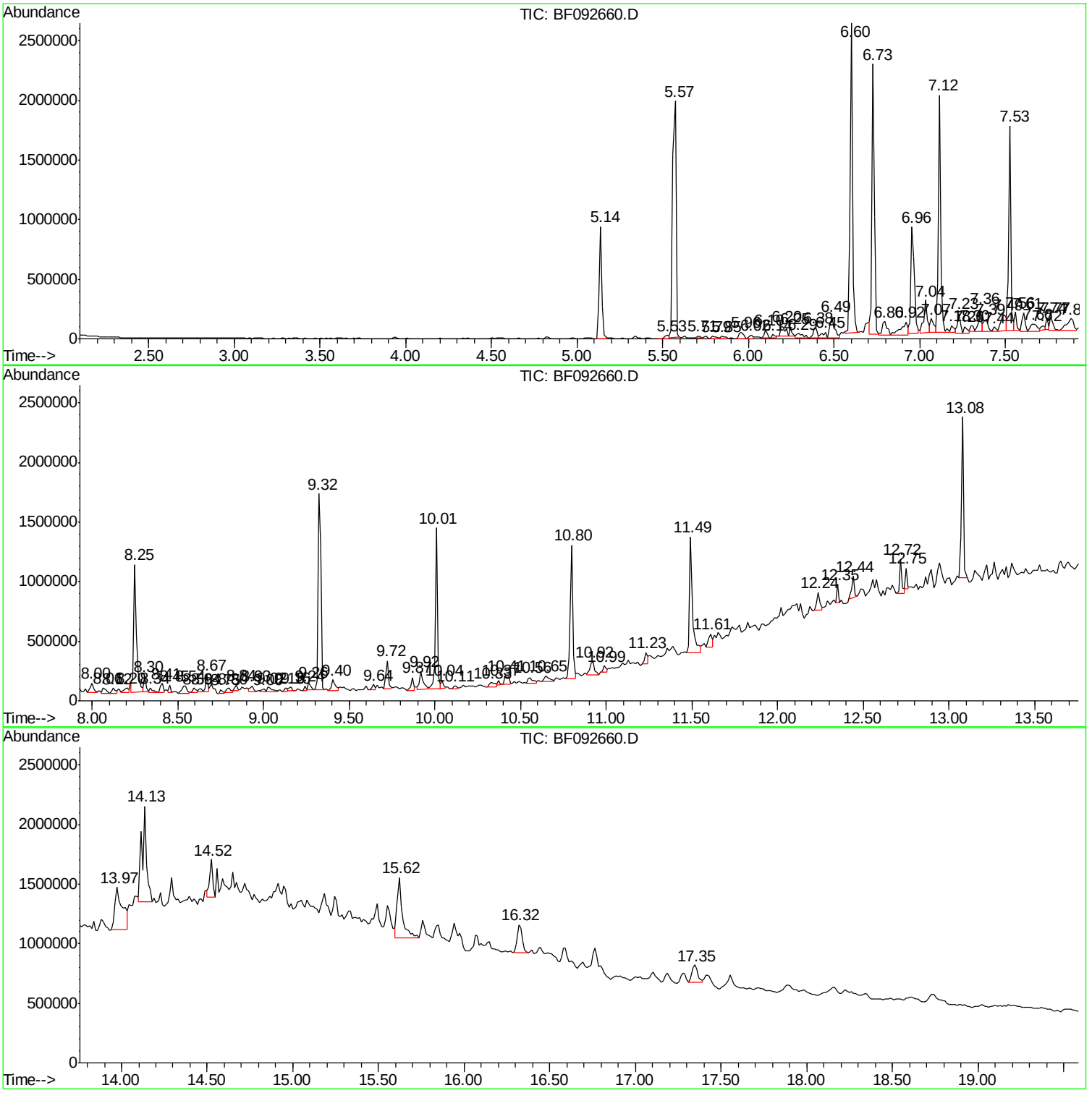
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF013017\
Data File : BF092660.D
Acq On : 31 Jan 2017 3:27
Operator : SJ/MA
Sample : I1593-09 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B2-8

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\BF013017\
Data File : BF092660.D
Acq On : 31 Jan 2017 3:27
Operator : SJ/MA
Sample : I1593-09 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B2-8

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

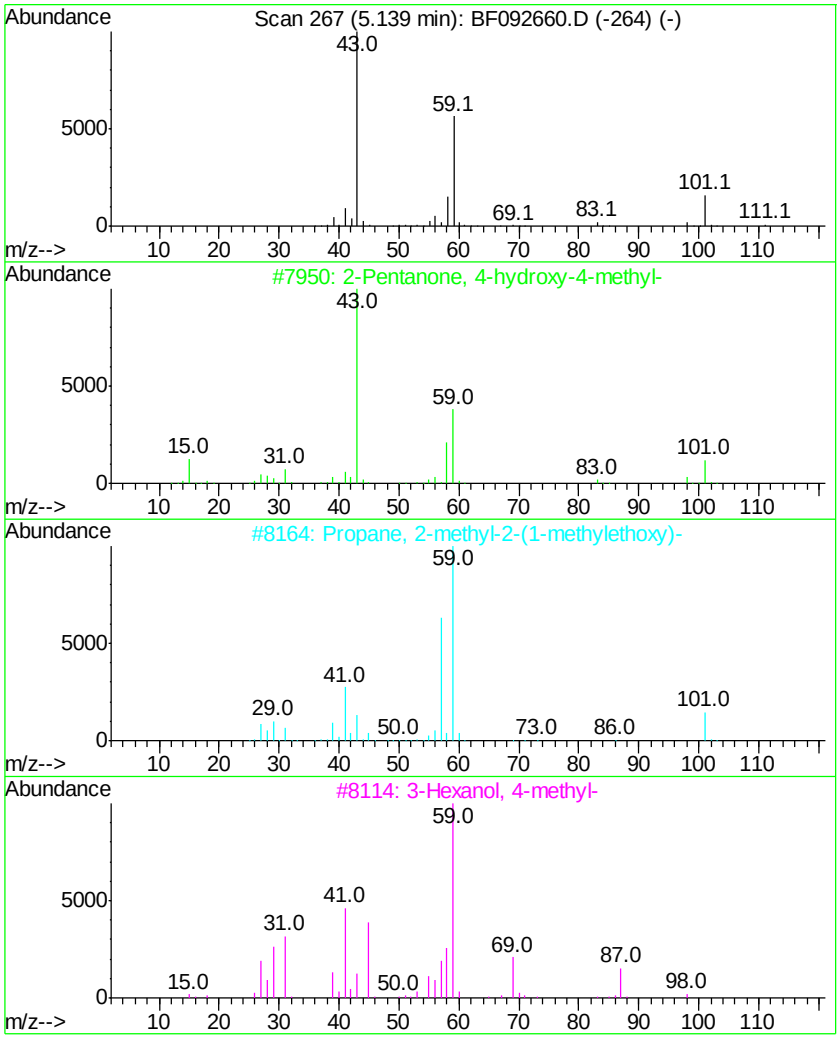
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

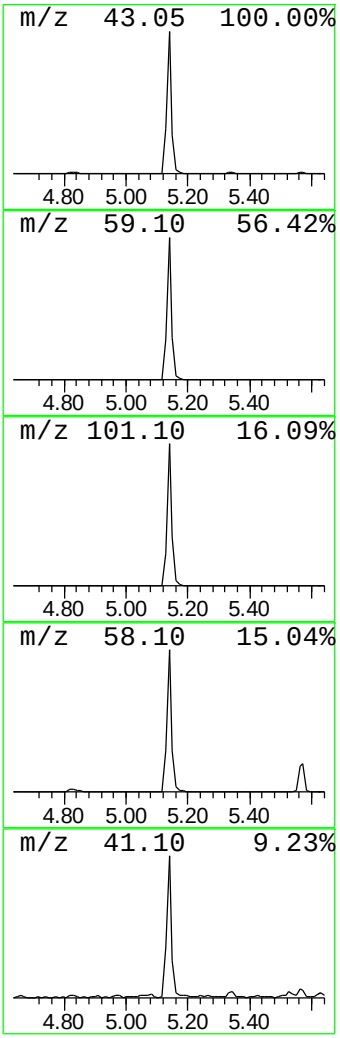
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.14	17.57 ng	1047860	1,4-Dichlorobenzene-d4	6.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	53
2	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	36
3	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	32
5	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	28





Data Path : Z:\HPCHEM1\BNA F\DATA\BF013017\
Data File : BF092660.D
Acq On : 31 Jan 2017 3:27
Operator : SJ/MA
Sample : I1593-09 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B2-8

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

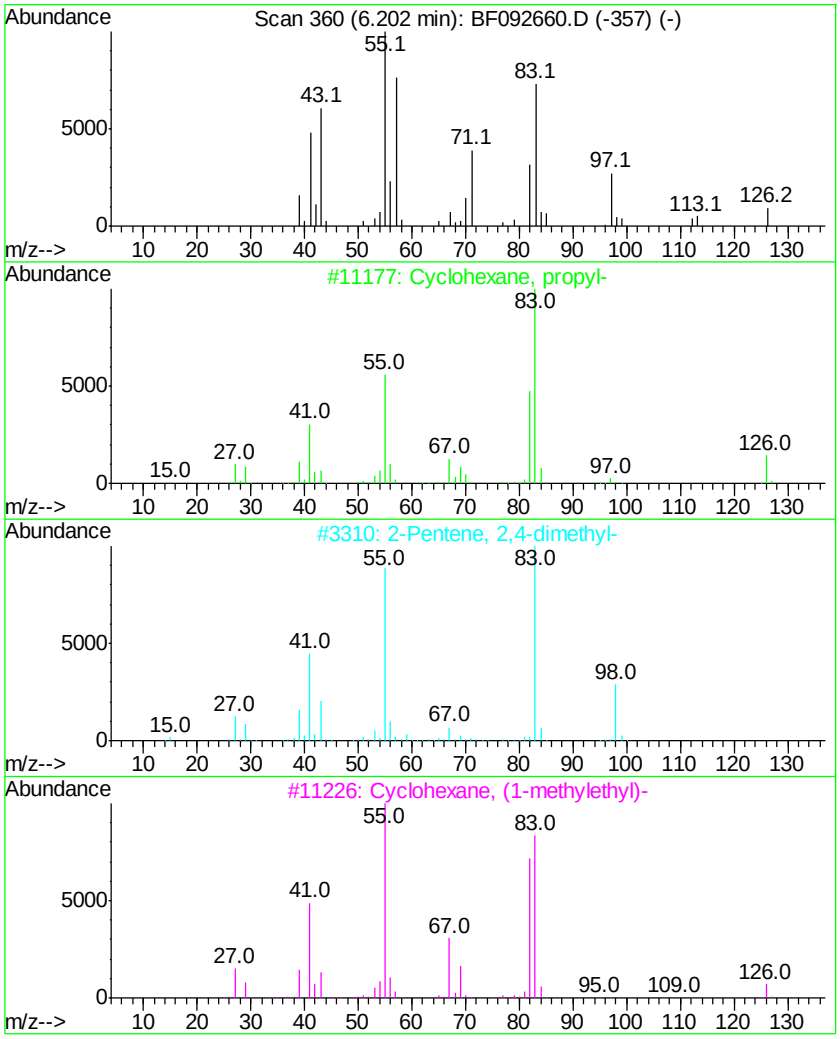
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

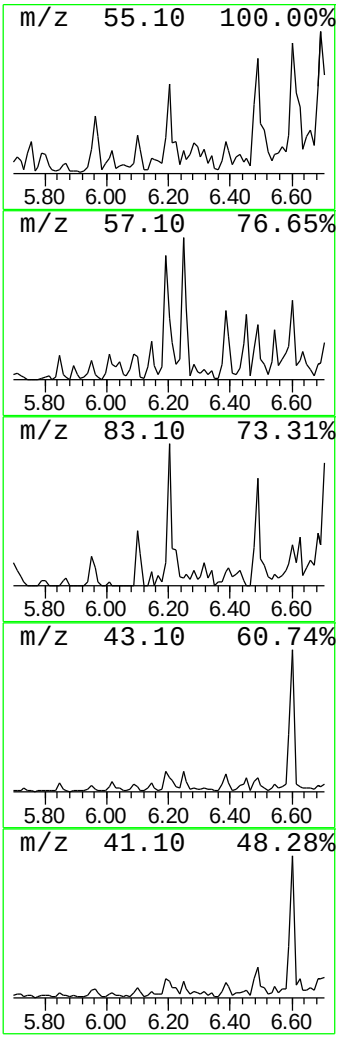
****

Peak Number 2 unknown6.20 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.20	2.97 ng	176804	1,4-Dichlorobenzene-d4	6.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, propyl-	126	C9H18	001678-92-8	43
2	2-Pentene, 2,4-dimethyl-	98	C7H14	000625-65-0	38
3	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	38
4	Cyclopropane, 1,1,2,2-tetramethyl-	98	C7H14	004127-47-3	35
5	Nonane, 3-methyl-	142	C10H22	005911-04-6	27





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Sample : I1593-09 2X
Misc :
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Instrument : BNA_F
ClientSampleId : B2-8

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

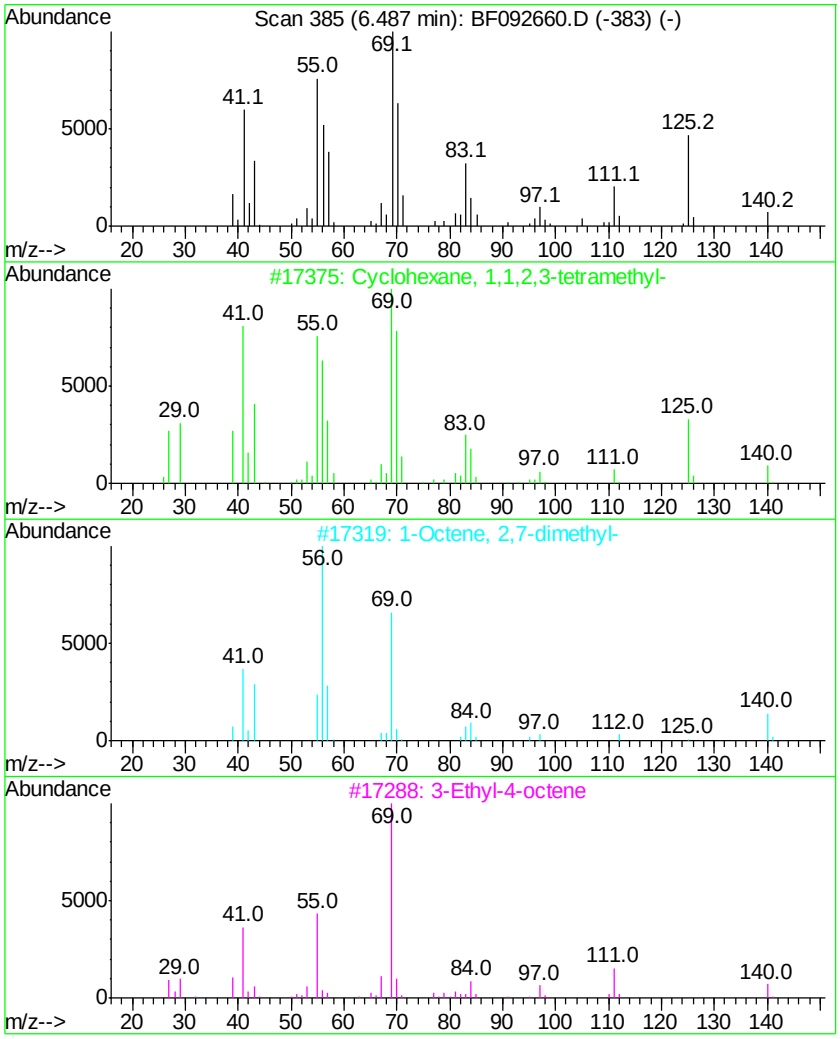
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

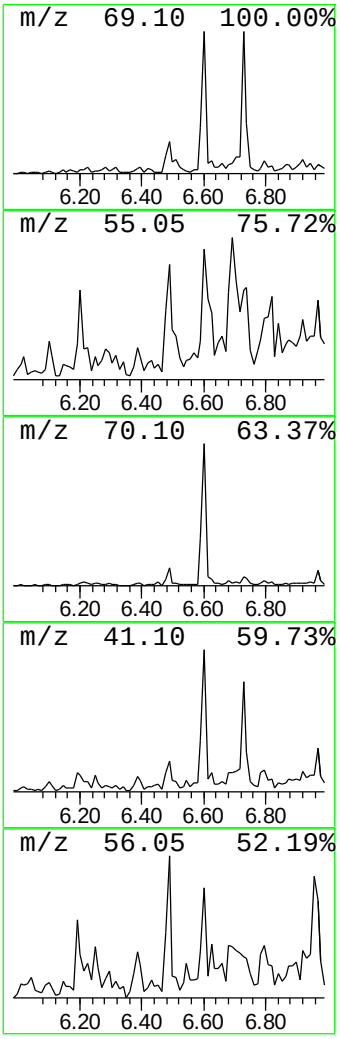
****

Peak Number 3 Cyclohexane, 1,1,2,3-tetram... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.49	5.34 ng	318618	1,4-Dichlorobenzene-d4	6.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,2,3-tetramethyl-	140	C10H20	006783-92-2	93
2	1-Octene, 2,7-dimethyl-	140	C10H20	033718-03-5	46
3	3-Ethyl-4-octene	140	C10H20	019781-32-9	43
4	3-Octene, 2,6-dimethyl-	140	C10H20	006874-28-8	43
5	Cyclopropane, 1,2-dimethyl-1-pen...	140	C10H20	062238-04-4	43





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Acq On : 31 Jan 2017 3:27
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Sample : I1593-09 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B2-8

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

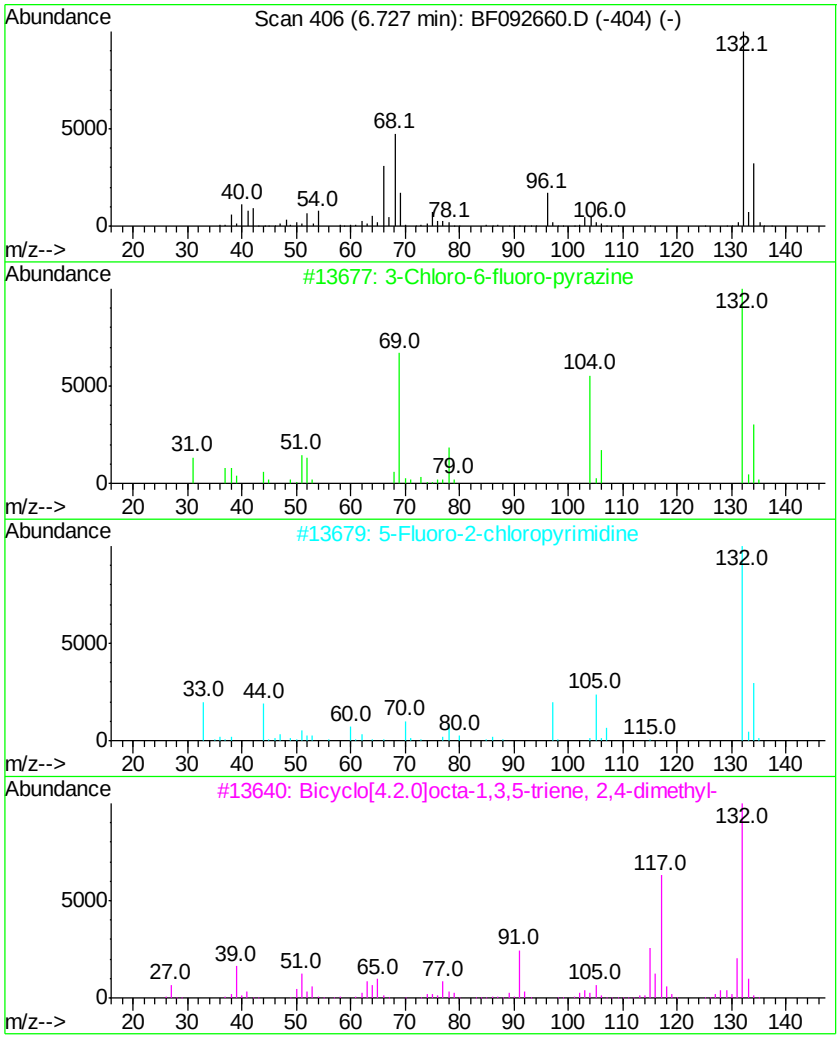
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

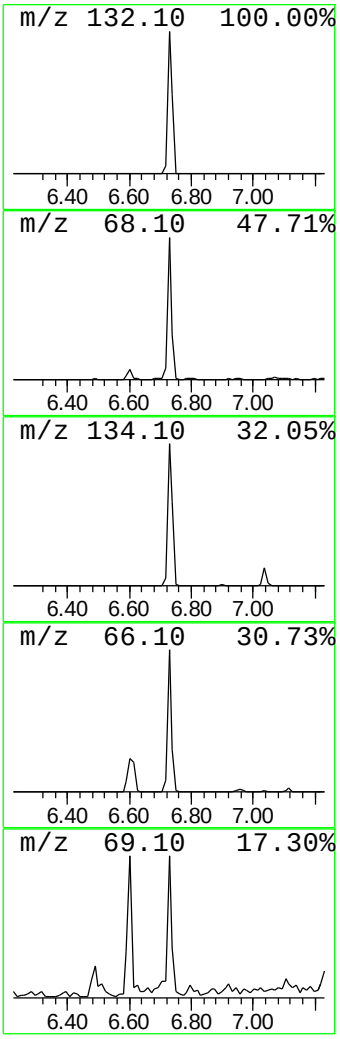
****

Peak Number 4 unknown6.73 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.73	40.15 ng	2394140	1,4-Dichlorobenzene-d4	6.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	16
3	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
4	Benzene, 1-ethenyl-3,5-dimethyl-	132	C10H12	005379-20-4	9
5	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF013017\
Data File : BF092660.D
Acq On : 31 Jan 2017 3:27
Operator : SJ/MA
Sample : I1593-09 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B2-8

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

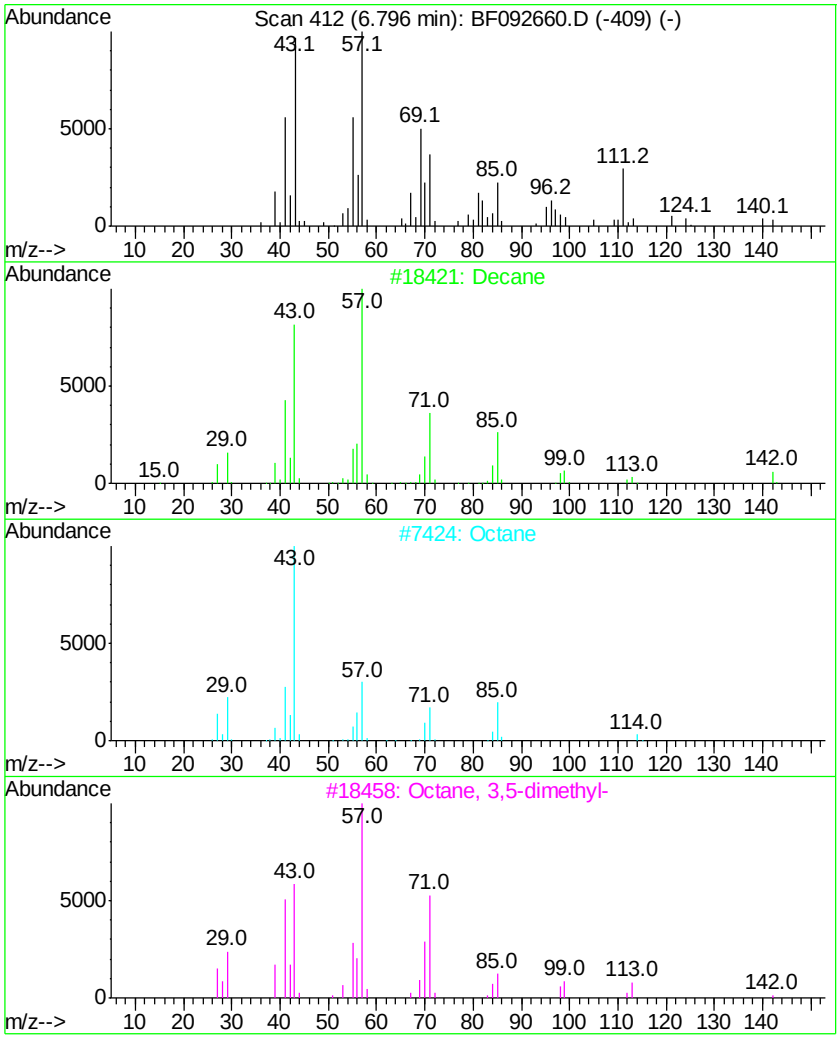
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

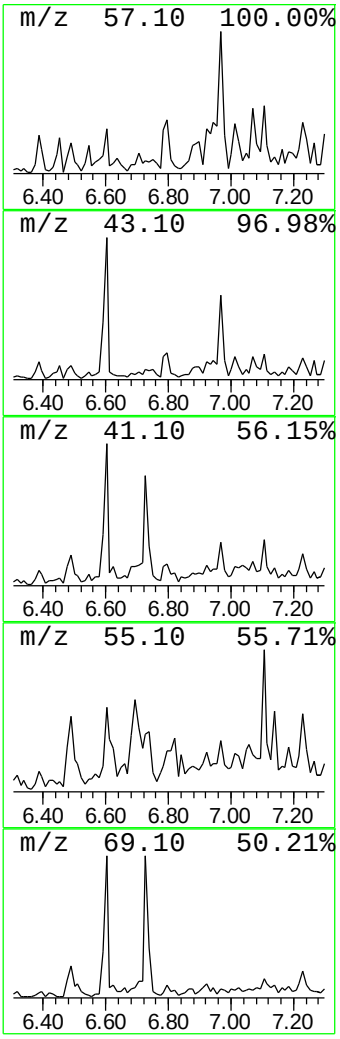
****

Peak Number 5 Decane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.80	3.82 ng	227559	1,4-Dichlorobenzene-d4	6.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane	142	C10H22	000124-18-5	60
2	Octane	114	C8H18	000111-65-9	49
3	Octane, 3,5-dimethyl-	142	C10H22	015869-93-9	38
4	Octane, 2,4,6-trimethyl-	156	C11H24	062016-37-9	38
5	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	38





Data Path : Z:\HPCHEM1\BNA F\DATA\BF013017\
Data File : BF092660.D
Acq On : 31 Jan 2017 3:27
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Misc :
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Instrument : BNA_F
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

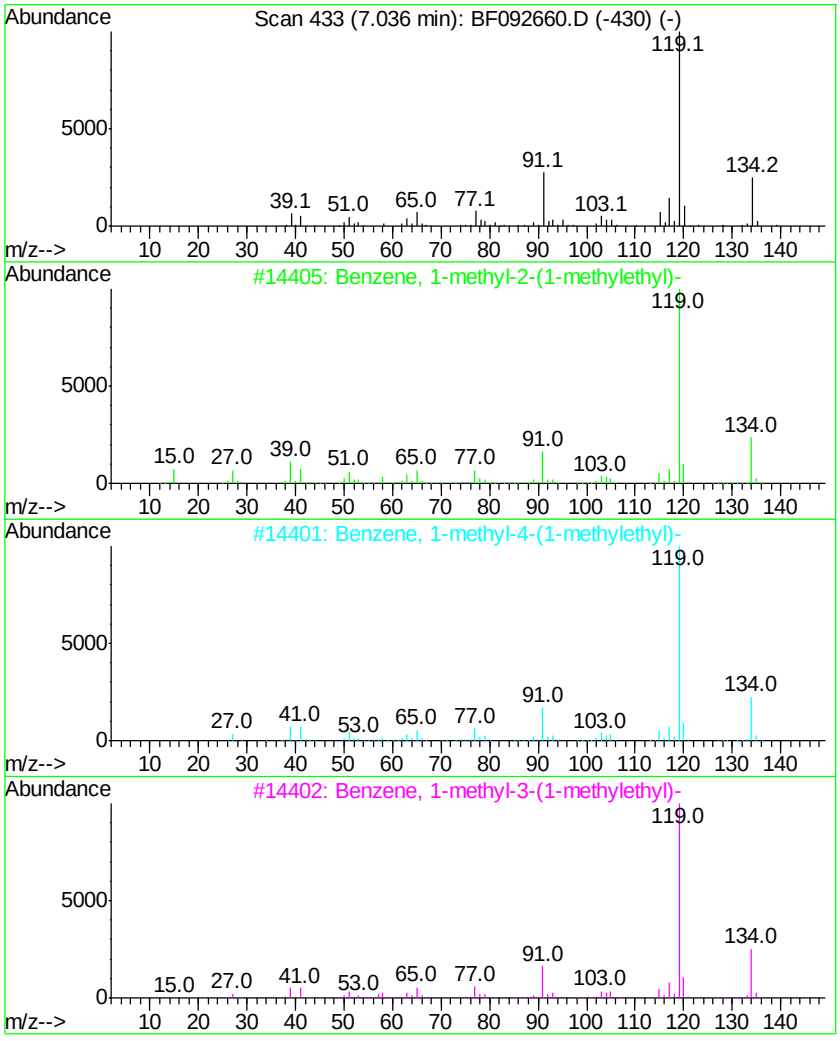
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

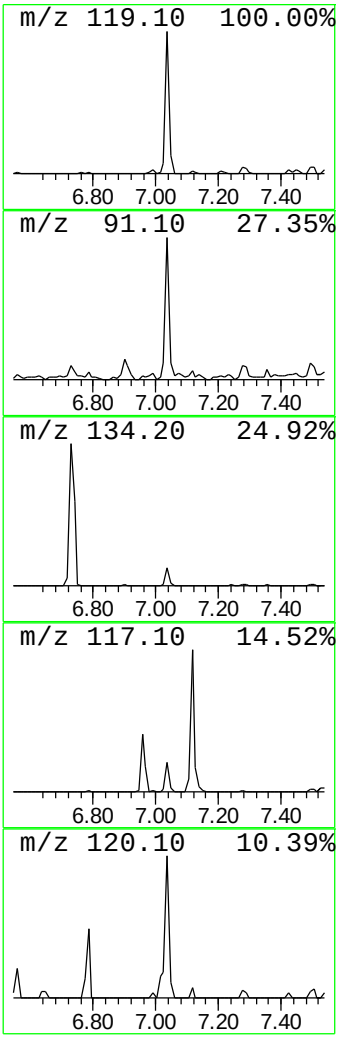
****

Peak Number 6 Benzene, 1-methyl-2-(1-meth... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.04	6.99 ng	416569	1,4-Dichlorobenzene-d4	6.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-2-(1-methyleth...	134	C10H14	000527-84-4	94
2	Benzene, 1-methyl-4-(1-methyleth...	134	C10H14	000099-87-6	94
3	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	94
4	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	90
5	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	90





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Acq On : 31 Jan 2017 3:27
Operator : SJ/MA
Sample : I1593-09 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B2-8

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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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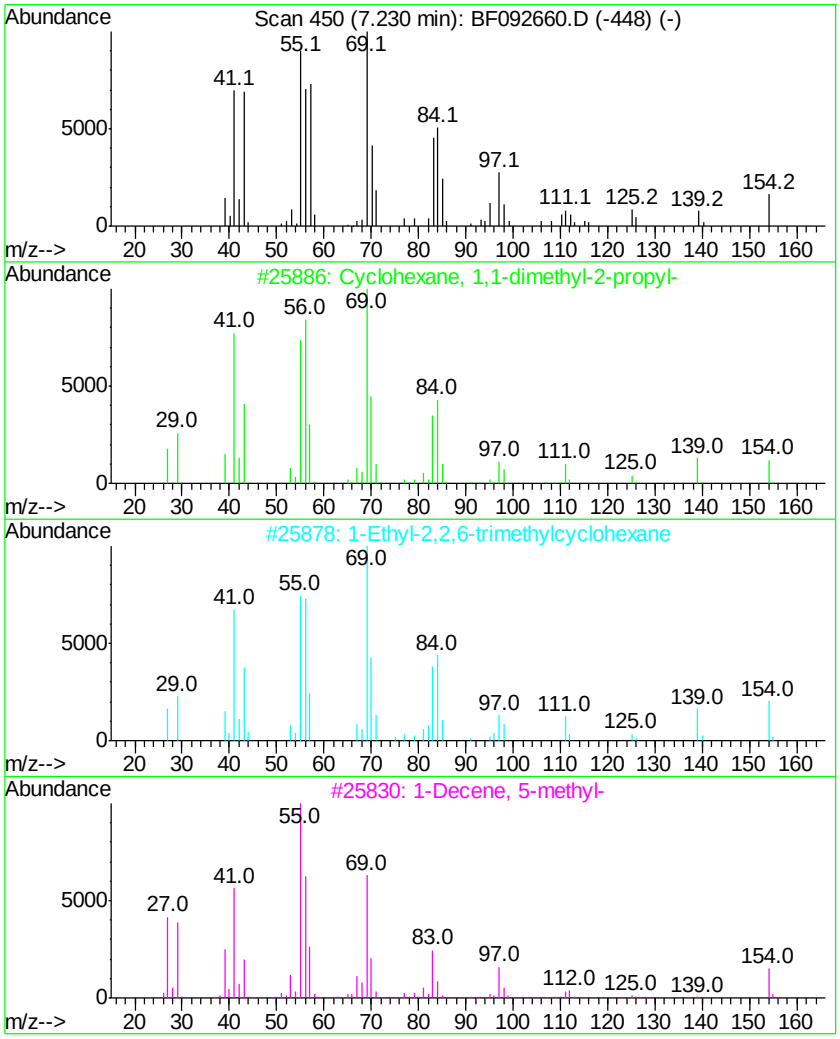
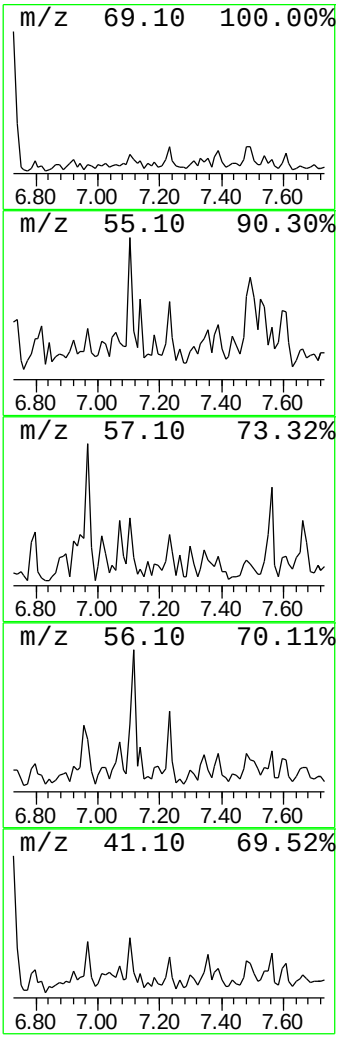
Peak Number 8 Cyclohexane, 1,1-dimethyl-2... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.23	3.39 ng	202275	1,4-Dichlorobenzene-d4	6.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1-dimethyl-2-propyl-	154	C11H22	081983-71-3	90
2	1-Ethyl-2,2,6-trimethylcyclohexane	154	C11H22	071186-27-1	87
3	1-Decene, 5-methyl-	154	C11H22	054244-79-0	68
4	Cyclopentane, hexyl-	154	C11H22	004457-00-5	62
5	4-Isopropyl-1,3-cyclohexanedione	154	C9H14O2	062831-62-3	58





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Instrument : BNA_F
ClientSampleId : B2-8

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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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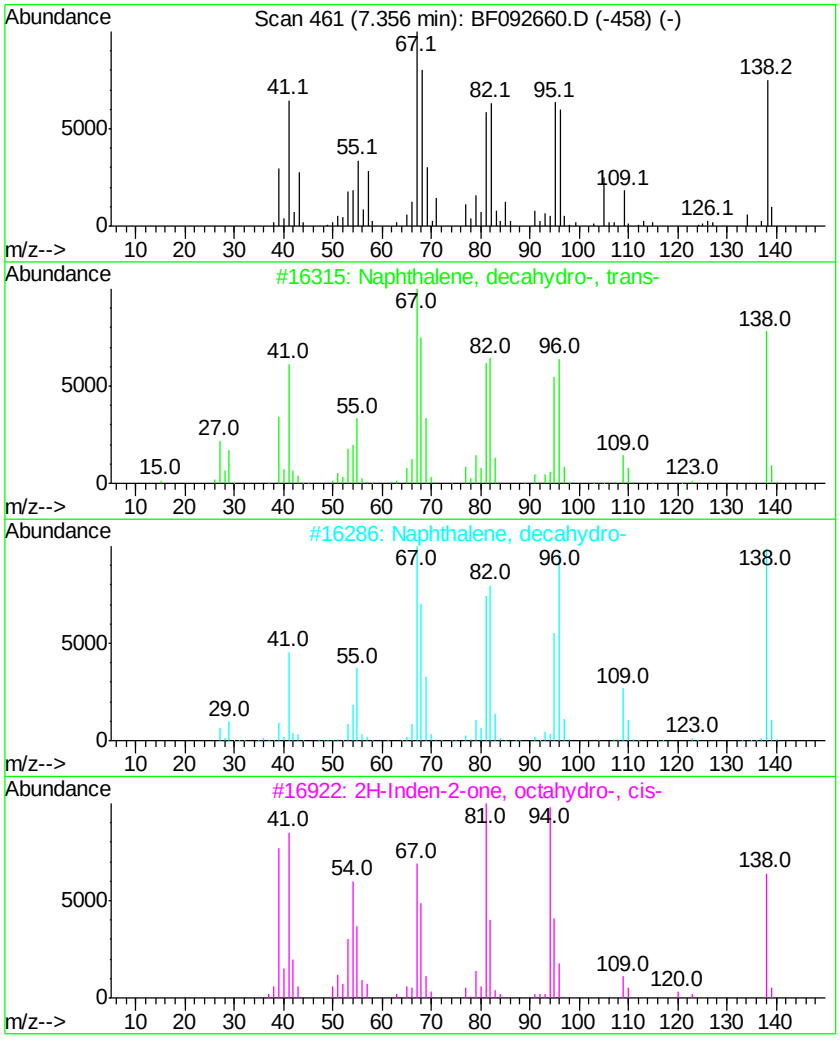
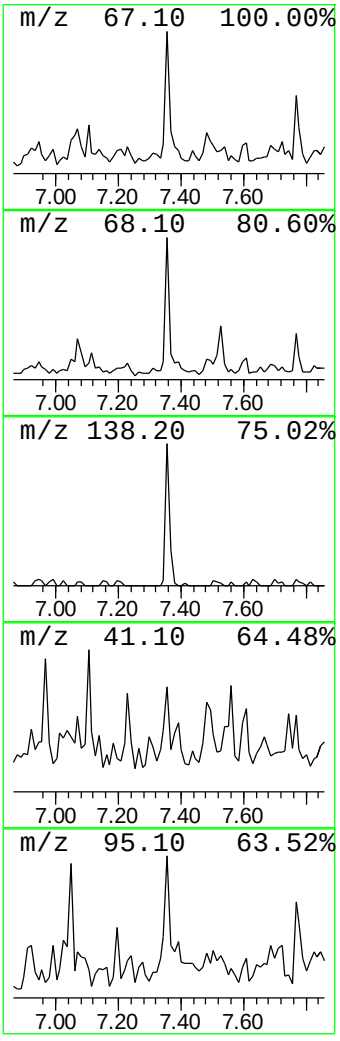
Peak Number 9 Naphthalene, decahydro-, tr... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.36	4.12 ng	245394	1,4-Dichlorobenzene-d4	6.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-, trans-	138	C10H18	000493-02-7	93
2	Naphthalene, decahydro-	138	C10H18	000091-17-8	87
3	2H-Inden-2-one, octahydro-, cis-	138	C9H14O	005689-04-3	80
4	1,1'-Bicyclopentyl	138	C10H18	001636-39-1	74
5	Spiro[4.5]decane	138	C10H18	000176-63-6	70





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Sample : I1593-09 2X
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ALS Vial : 21 Sample Multiplier: 1

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ClientSampleId : B2-8

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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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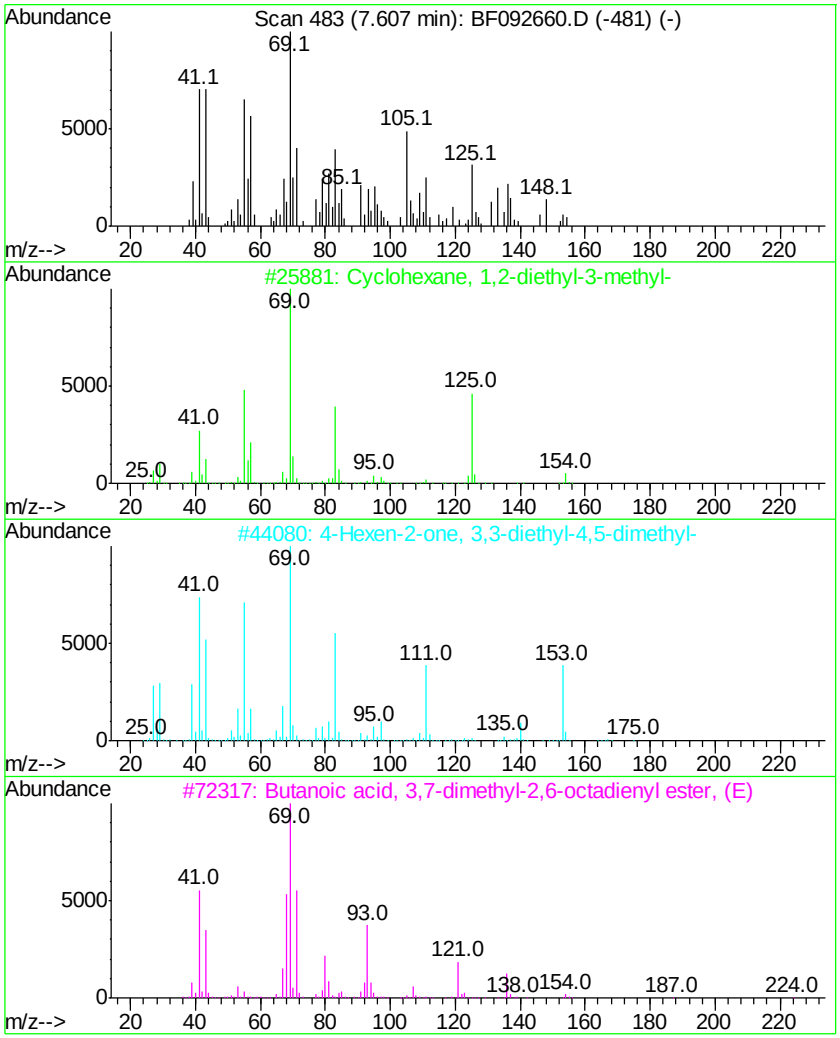
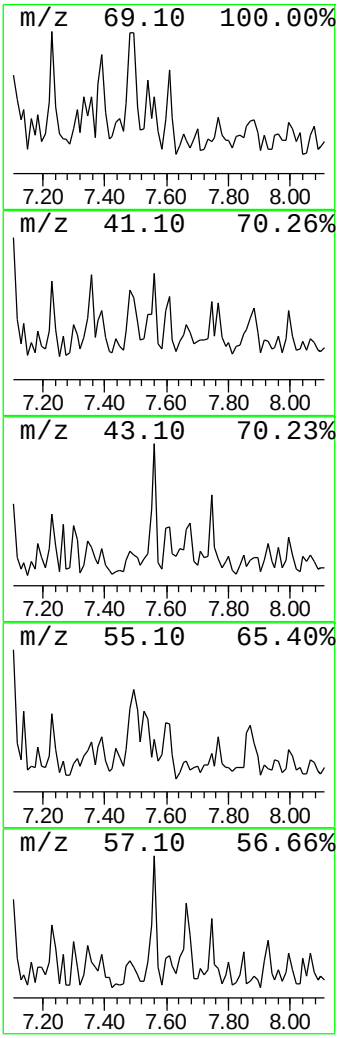
Peak Number 10 unknown7.61 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.61	3.12 ng	200449	Naphthalene-d8	8.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-diethyl-3-methyl-	154	C11H22	061141-80-8	43
2	4-Hexen-2-one, 3,3-diethyl-4,5-d...	182	C12H22O	1000149-30-4	38
3	Butanoic acid, 3,7-dimethyl-2,6-...	224	C14H24O2	000106-29-6	35
4	2,2-Dimethyl-3-heptene trans	126	C9H18	019550-75-5	27
5	Oxirane, tetradecyl-	240	C16H32O	007320-37-8	27





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Sample : I1593-09 2X
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ALS Vial : 21 Sample Multiplier: 1

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ClientSampleId : B2-8

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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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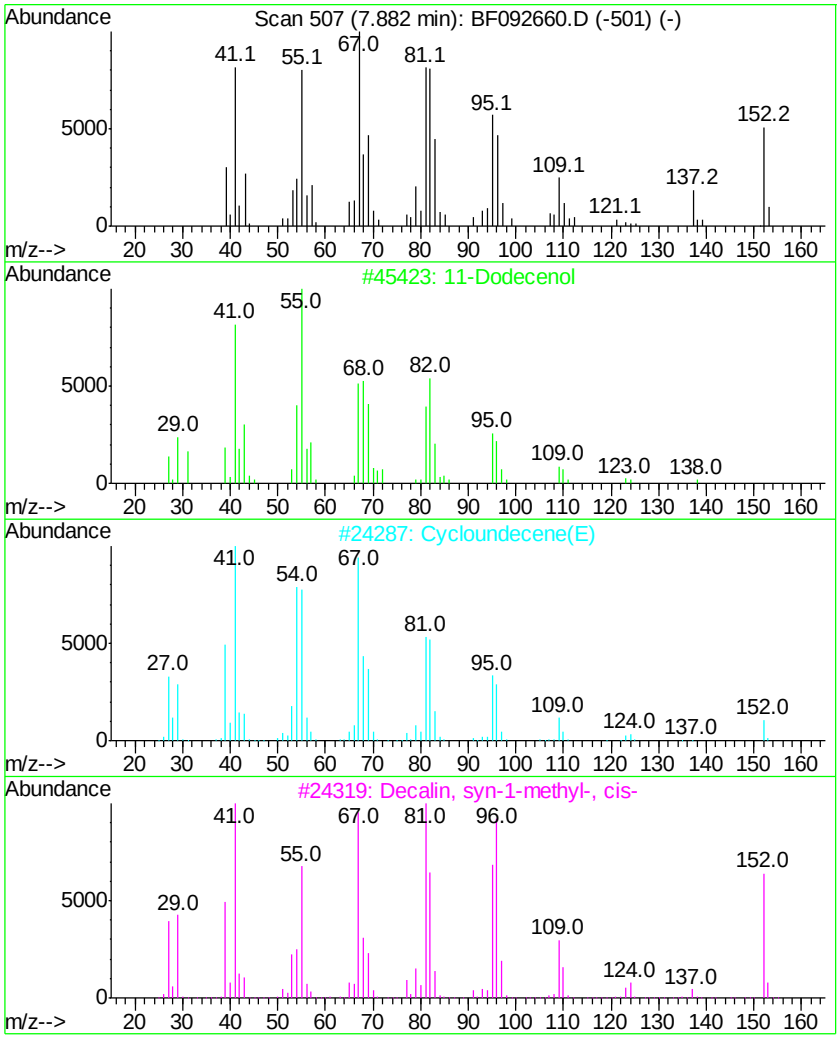
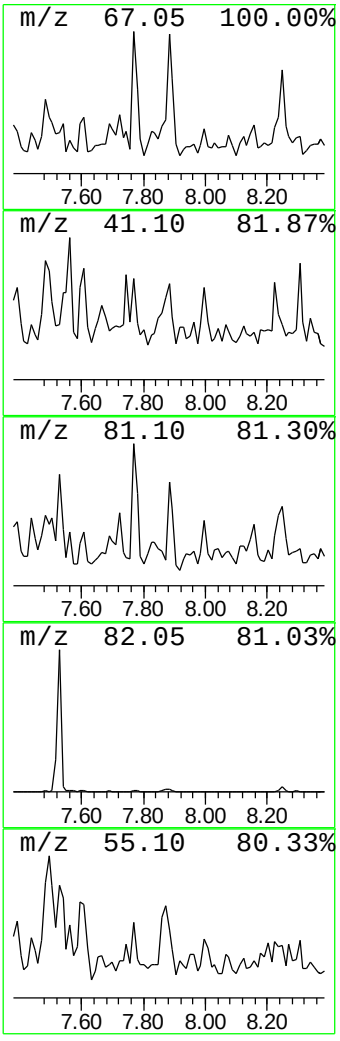
Peak Number 11 11-Dodecenol Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.88	4.50 ng	289265	Naphthalene-d8	8.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11-Dodecenol	184	C12H24O	035289-31-7	80
2	Cycloundecene(E)	152	C11H20	013151-60-5	70
3	Decalin, syn-1-methyl-, cis-	152	C11H20	1000158-89-1	52
4	trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	52
5	1-Methyldecahydronaphthalene	152	C11H20	002958-75-0	50





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Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B2-8

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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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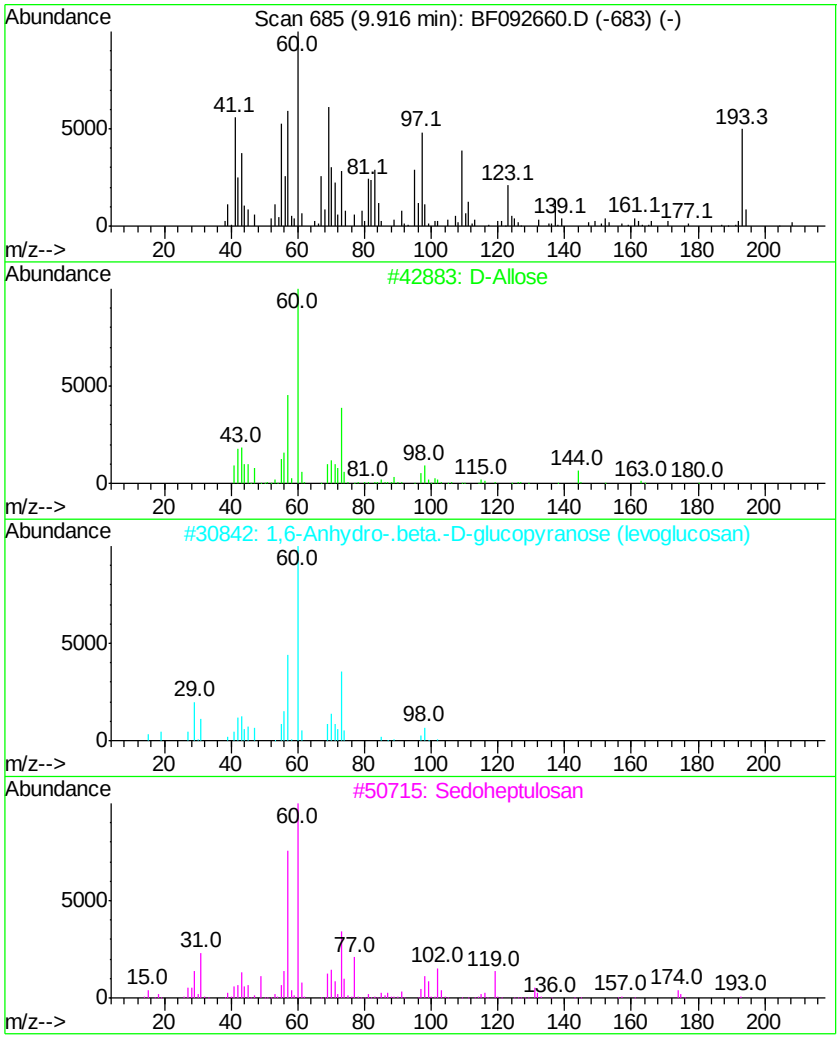
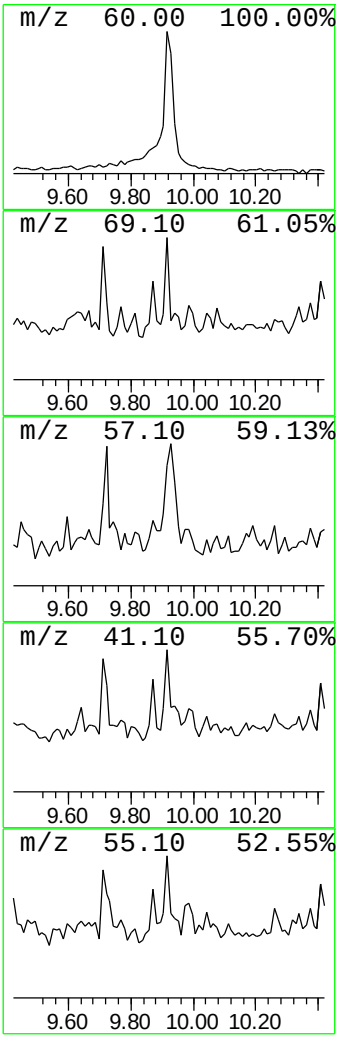
Peak Number 12 unknown9.92 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.92	4.12 ng	248520	Acenaphthene-d10	10.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	D-Allose	180	C6H12O6	002595-97-3	22
2	1,6-Anhydro-.beta.-D-glucopyrano...	162	C6H10O5	000498-07-7	22
3	Sedoheptulosan	192	C7H12O6	000469-90-9	12
4	Spiro[5.6]dodecane-1,7-dione	194	C12H18O2	050803-80-0	11
5	2,6,10-Trimethylundeca-1,3-diene	194	C14H26	1000222-09-1	10





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Sample : I1593-09 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B2-8

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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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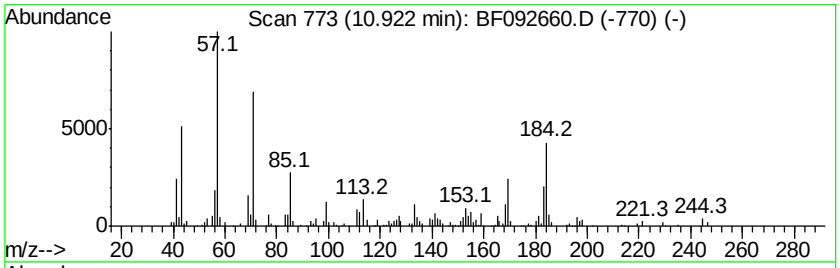
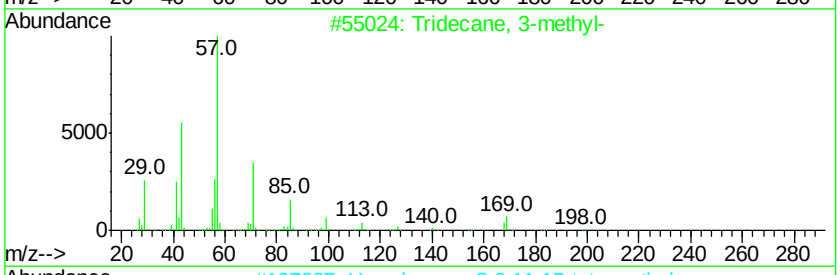
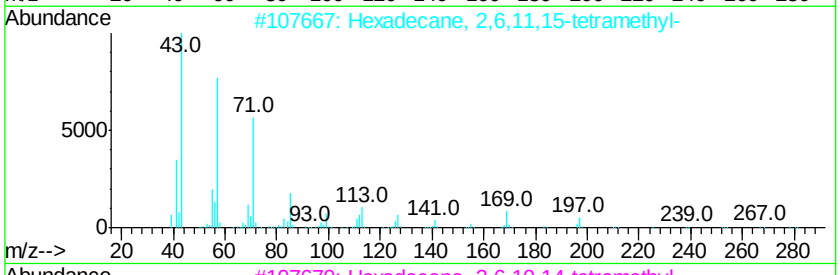
Peak Number 13 unknown10.92 Concentration Rank 15

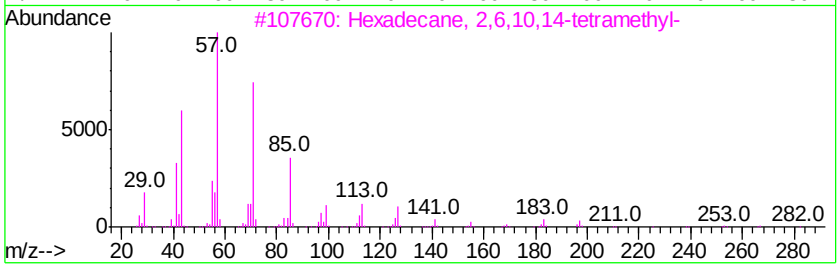
R.T.	EstConc	Area	Relative to ISTD	R.T.
10.92	3.70 ng	197211	Phenanthrene-d10	11.49

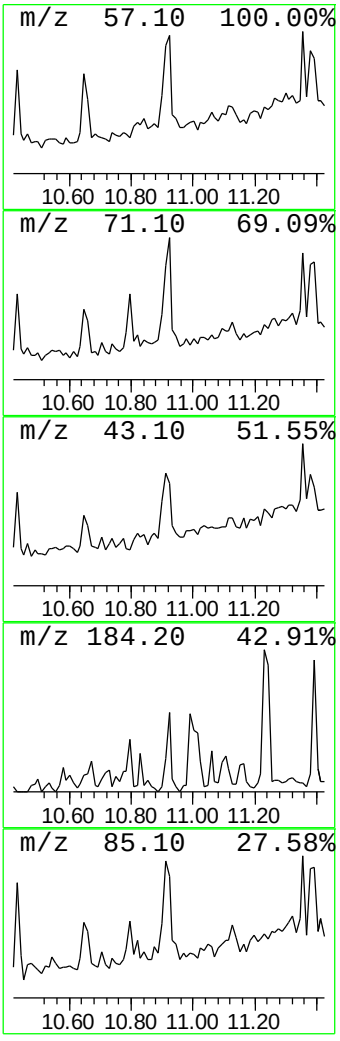
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane, 3-methyl-	198	C14H30	006418-41-3	35
2	Hexadecane, 2,6,11,15-tetramethyl-	282	C20H42	000504-44-9	30
3	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	25
4	Triacontane	422	C30H62	000638-68-6	22
5	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	22











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Acq On : 31 Jan 2017 3:27
Operator : SJ/MA
Sample : I1593-09 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B2-8

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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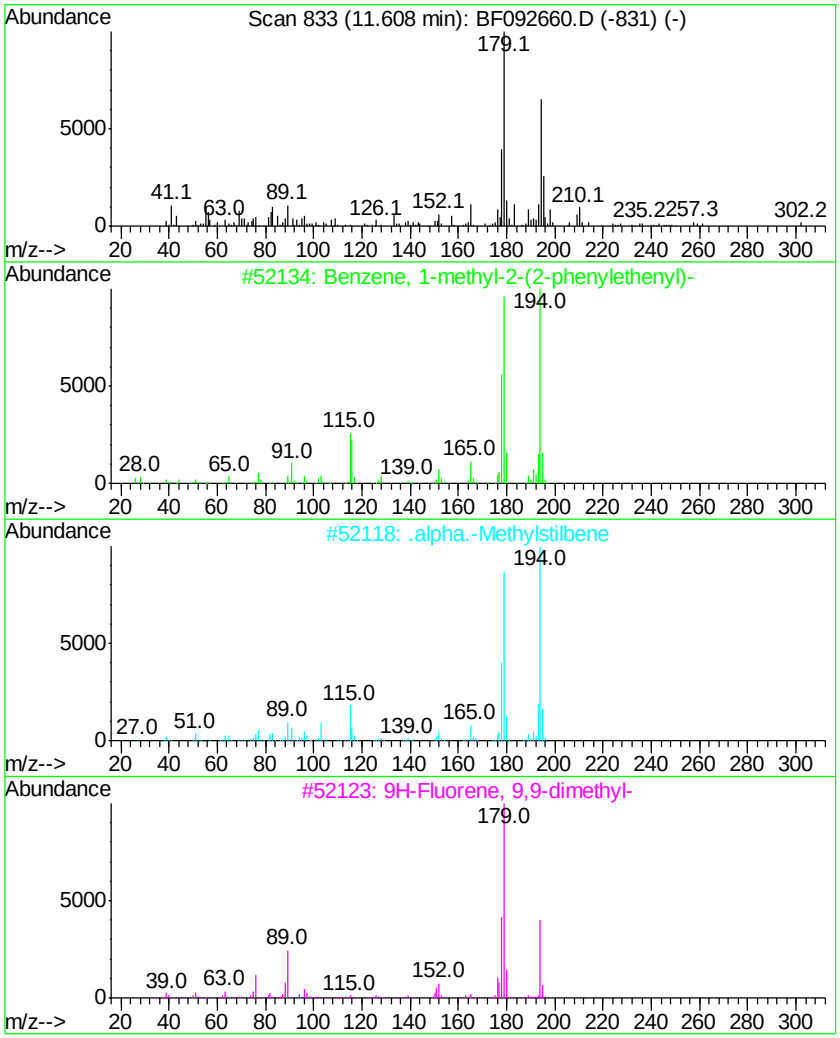
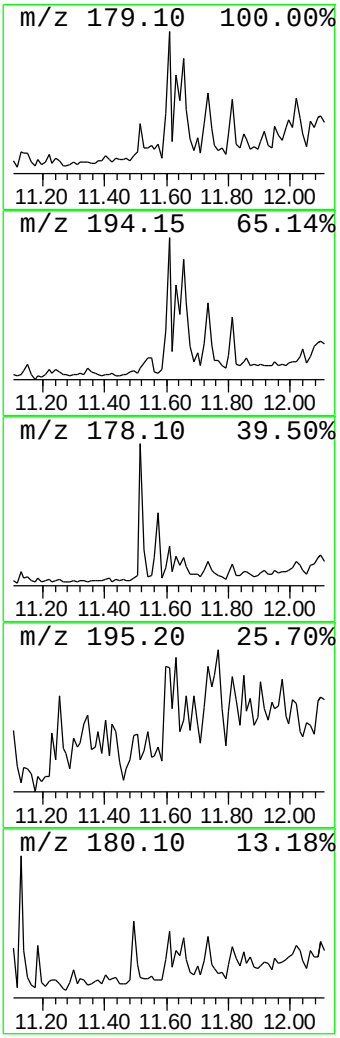
Peak Number 14 Benzene, 1-methyl-2-(2-phen... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.61	3.26 ng	173619	Phenanthrene-d10	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-2-(2-phenyleth...	194	C15H14	074685-42-0	81
2	.alpha.-Methylstilbene	194	C15H14	000779-51-1	81
3	9H-Fluorene, 9,9-dimethyl-	194	C15H14	004569-45-3	72
4	10,11-Dihydro-5H-dibenzo(a,d)cyc...	194	C15H14	000833-48-7	53
5	Stilbene, .alpha.-methyl-, (E)-	194	C15H14	000833-81-8	49





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Sample : I1593-09 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B2-8

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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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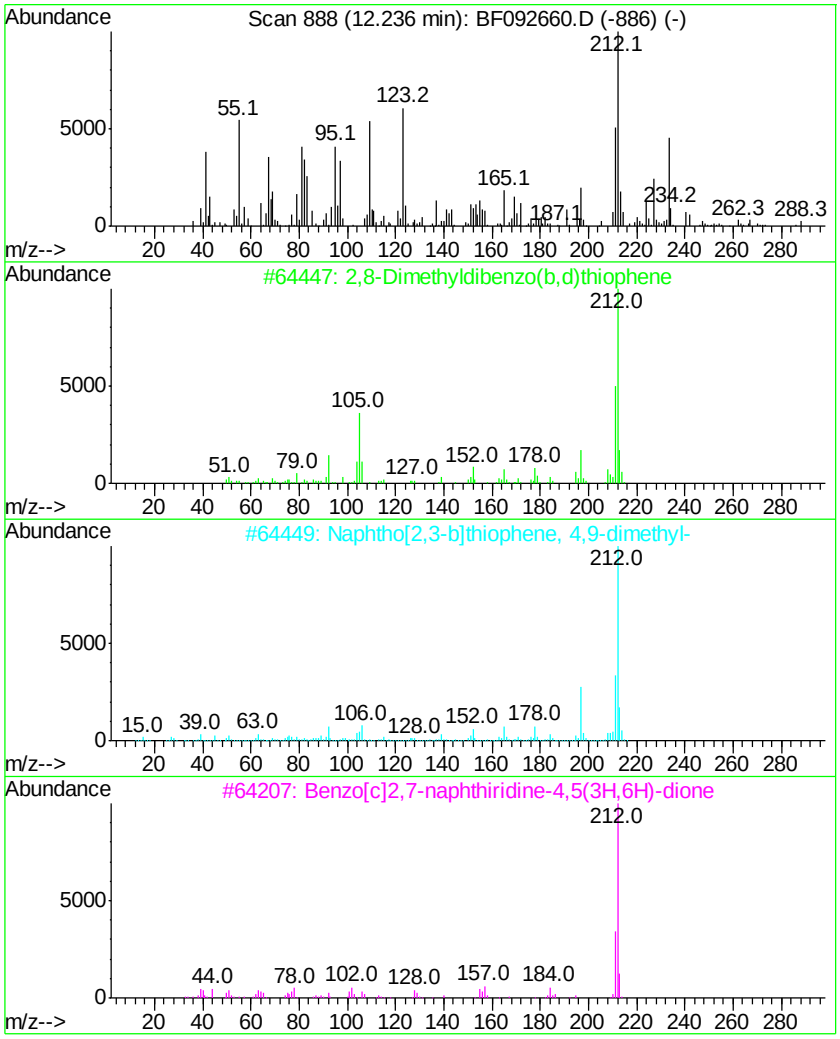
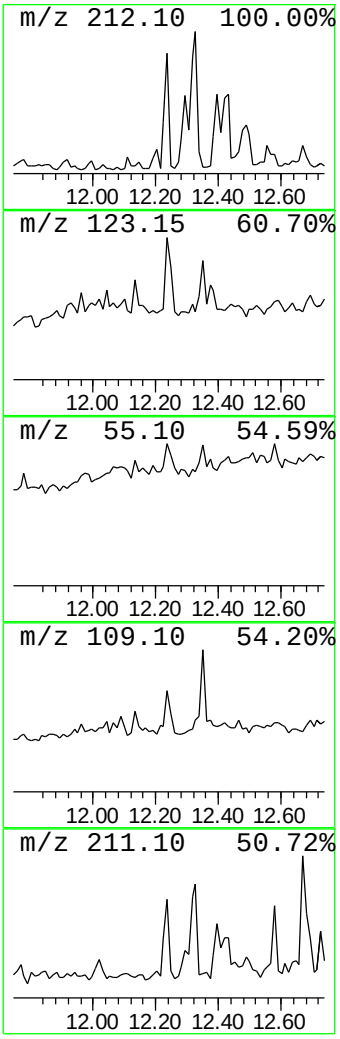
Peak Number 15 unknown12.24 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.24	3.72 ng	198379	Phenanthrene-d10	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,8-Dimethyldibenzo(b,d)thiophene	212	C14H12S	001207-15-4	38
2	Naphtho[2,3-b]thiophene, 4,9-dim...	212	C14H12S	016587-34-1	25
3	Benzo[c]2,7-naphthiridine-4,5(3H...	212	C12H8N2O2	174565-23-2	22
4	3,5-Dinitro-4-hydroxybenzaldehyde	212	C7H4N2O6	052132-61-3	22
5	2,5-Dimethoxy-4-(methylthio)-ben...	212	C10H12O3S	061638-04-8	18





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Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B2-8

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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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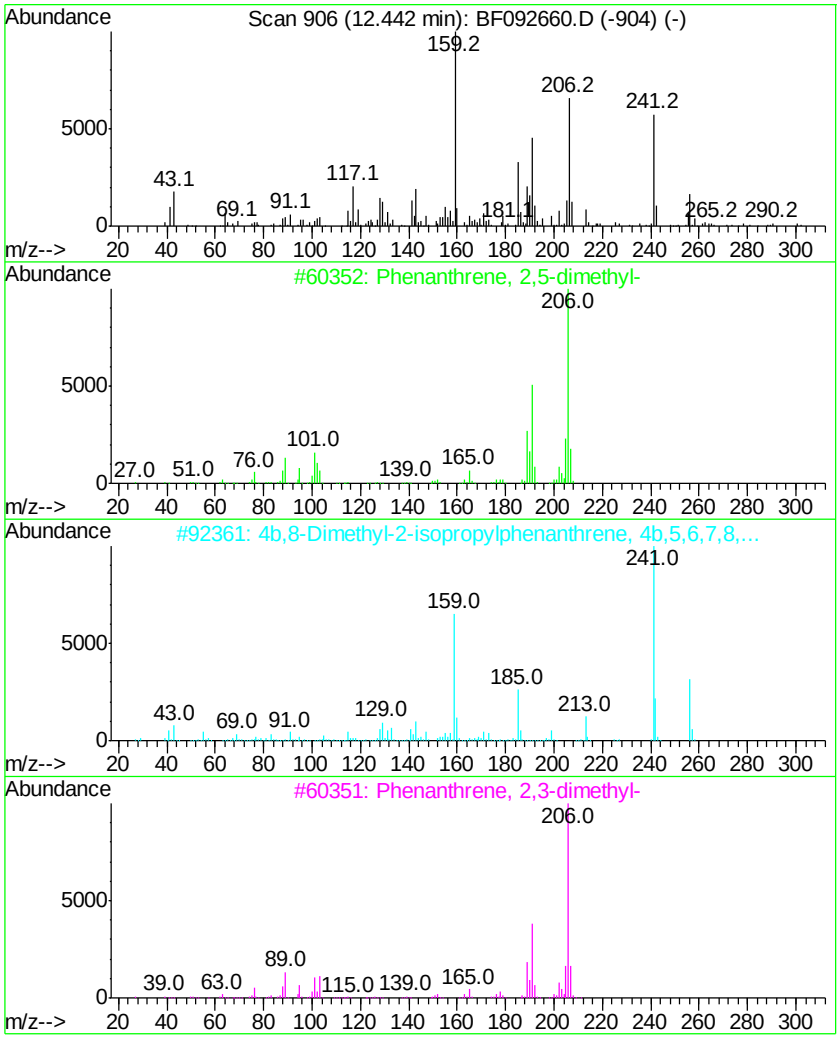
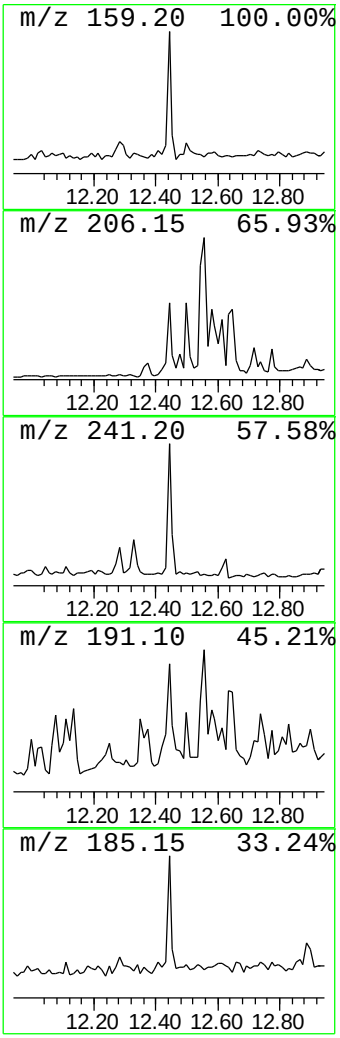
Peak Number 16 Phenanthrene, 2,5-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.44	3.53 ng	187909	Phenanthrene-d10	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	51
2	4b,8-Dimethyl-2-isopropylphenant...	256	C19H28	1000197-14-1	46
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	38
4	Carbendazim	191	C9H9N3O2	010605-21-7	35
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	25





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ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B2-8

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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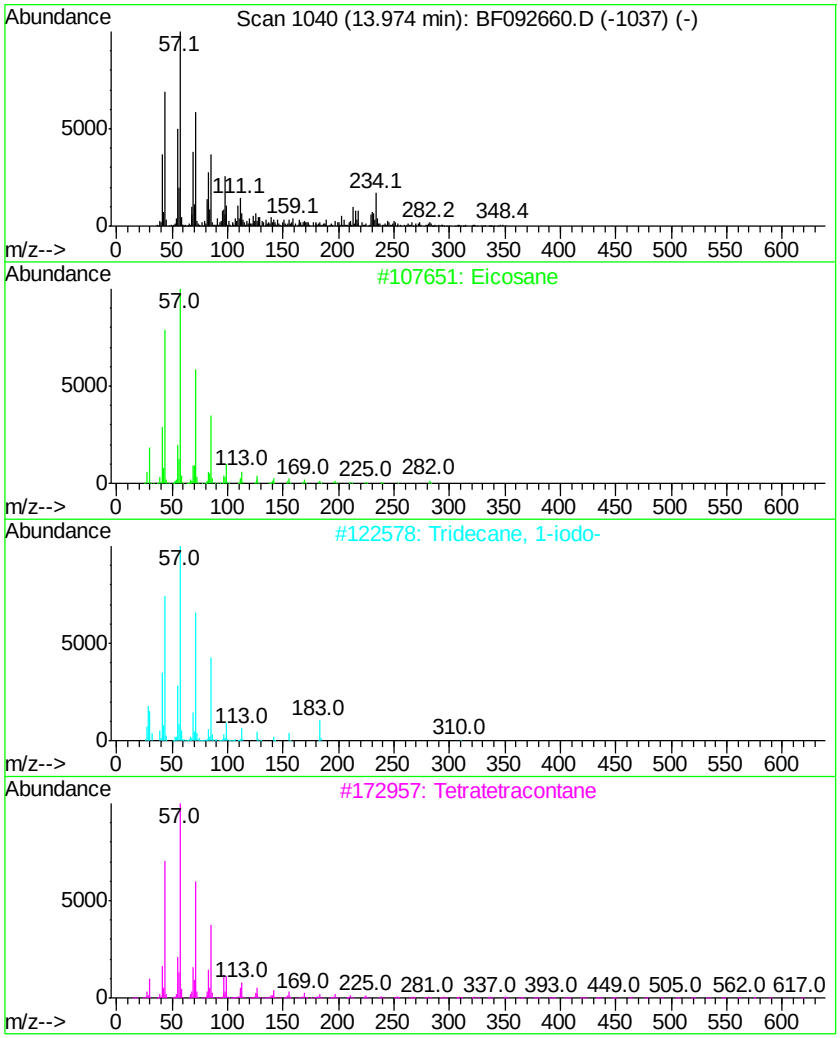
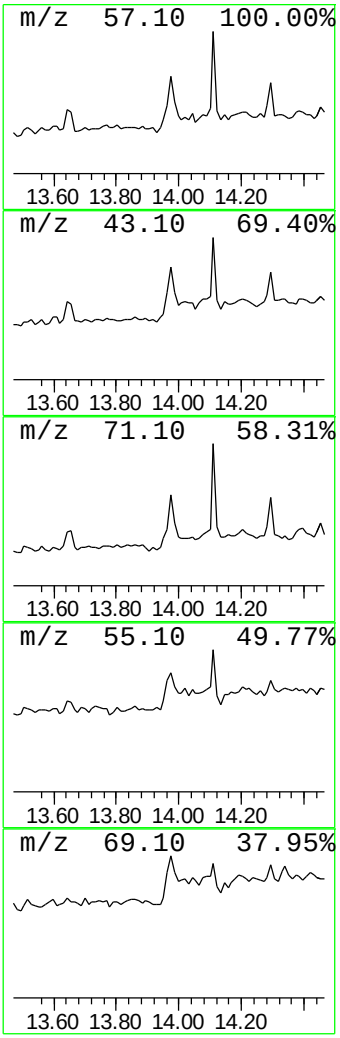
Peak Number 17 Eicosane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.97	14.89 ng	1120080	Chrysene-d12	14.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	94
2	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	60
3	Tetratetracontane	619	C44H90	007098-22-8	49
4	Hexadecane, 2-methyl-	240	C17H36	001560-92-5	46
5	Octadecane, 2-methyl-	268	C19H40	001560-88-9	41





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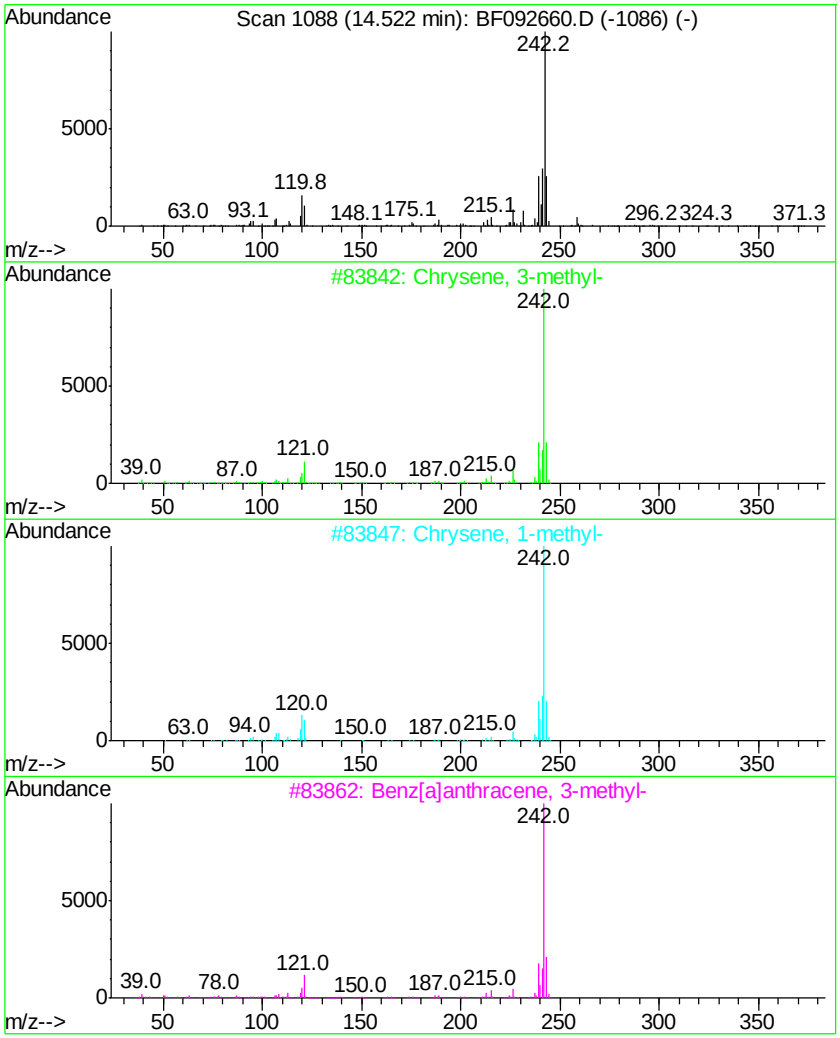
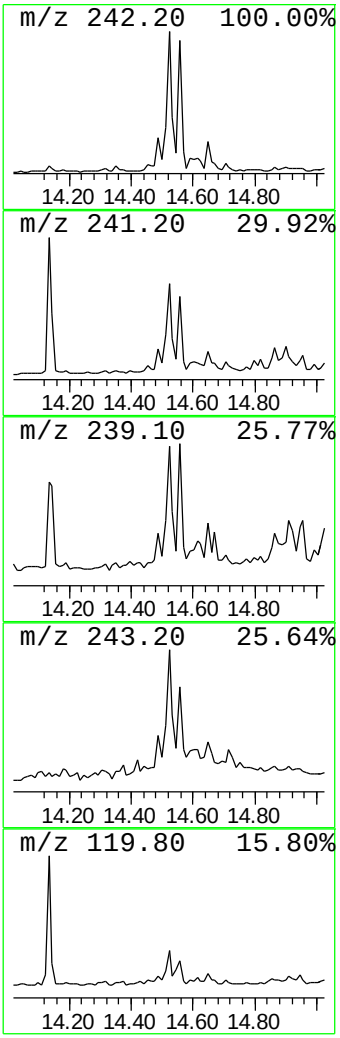
Peak Number 18 Chrysene, 3-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.52	4.57 ng	344048	Chrysene-d12	14.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chrysene, 3-methyl-	242	C19H14	003351-31-3	96
2	Chrysene, 1-methyl-	242	C19H14	003351-28-8	96
3	Benz[a]anthracene, 3-methyl-	242	C19H14	002498-75-1	95
4	Benz[a]anthracene, 4-methyl-	242	C19H14	000316-49-4	95
5	Benz[a]anthracene, 2-methyl-	242	C19H14	002498-76-2	94





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Data File : BF092660.D
Acq On : 31 Jan 2017 3:27
Operator : SJ/MA
Sample : I1593-09 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B2-8

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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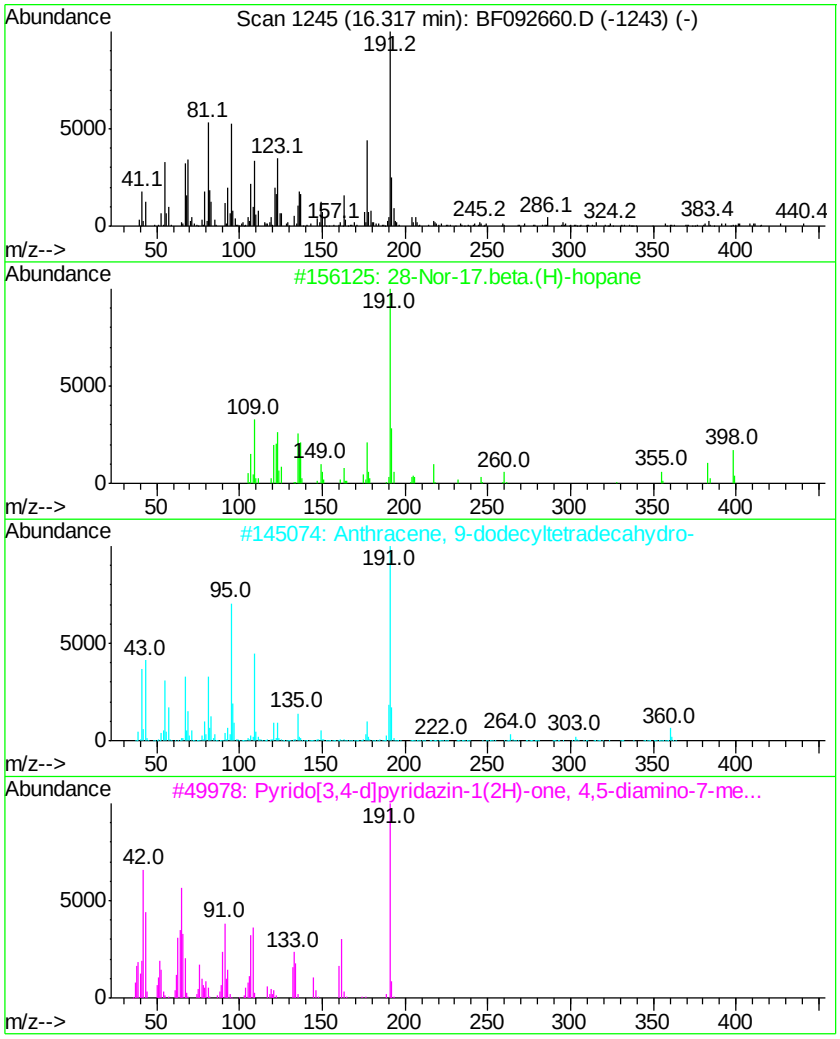
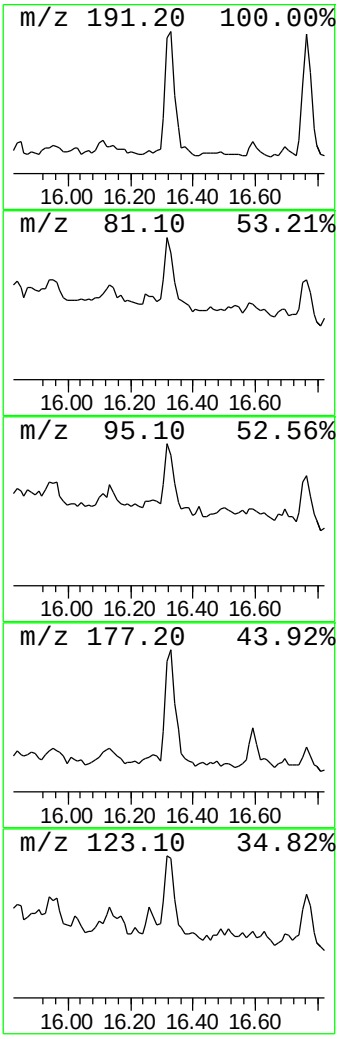
Peak Number 19 28-Nor-17.beta.(H)-hopane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.32	8.95 ng	462053	Perylene-d12	15.62

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	28-Nor-17.beta.(H)-hopane	398	C29H50	036728-72-0	68
2	Anthracene, 9-dodecyltetradecahy...	360	C26H48	055401-75-7	40
3	Pyrido[3,4-d]pyridazin-1(2H)-one...	191	C8H9N5O	1000263-69-7	38
4	1,4-Benzenediol, 2-[(1,4,4a,5,6,...	314	C21H30O2	039707-55-6	38
5	1-Penten-3-one, 1-(2,6,6-trimeth...	206	C14H22O	000127-43-5	38





Data Path : Z:\HPCHEM1\BNA F\DATA\BF013017\
Data File : BF092660.D
Acq On : 31 Jan 2017 3:27
Operator : SJ/MA
Sample : I1593-09 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B2-8

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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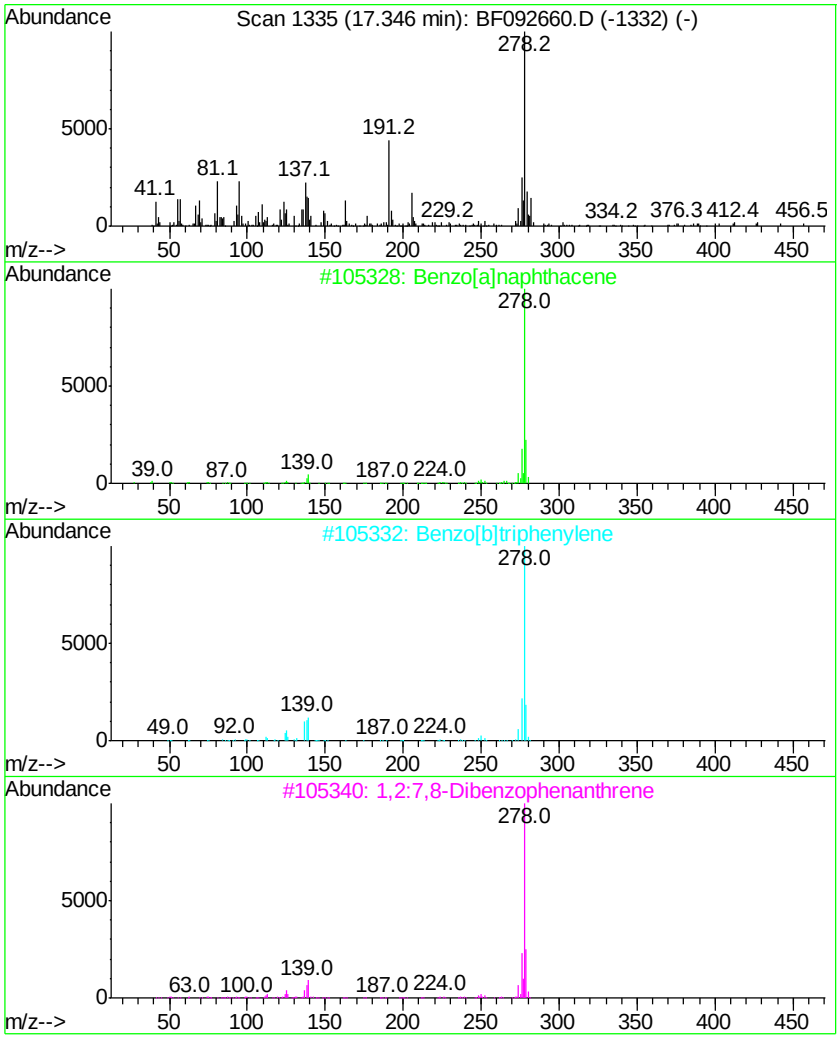
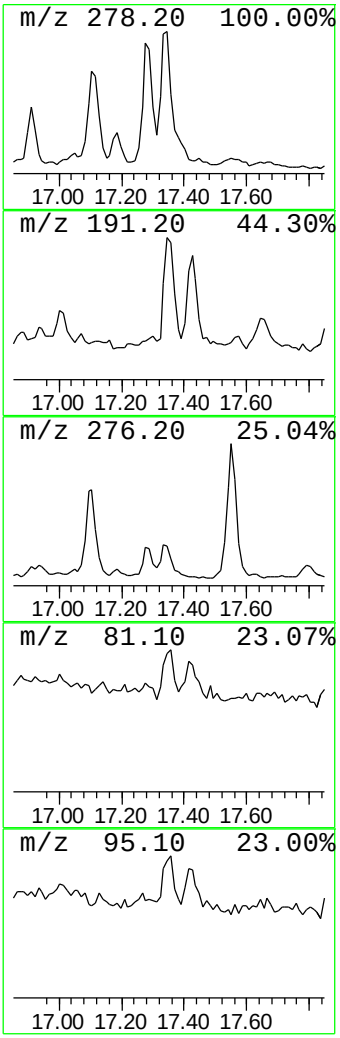
Peak Number 20 unknown17.35 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.35	6.25 ng	322753	Perylene-d12	15.62

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[a]naphthacene	278	C22H14	000226-88-0	46
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	46
3	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	46
4	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	38
5	Vanadium, (.eta.5-2,4-cyclopenta...	278	C17H23V	126948-97-8	38





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF013017\
Data File : BF092660.D
Acq On : 31 Jan 2017 3:27
Operator : SJ/MA
Sample : I1593-09 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B2-8

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-Pentanone, 4-hy...	5.14	17.6	ng	1047860	1	6.96	1192450	20.0
unknown6.20	6.20	3.0	ng	176804	1	6.96	1192450	20.0
Cyclohexane, 1,1,...	6.49	5.3	ng	318618	1	6.96	1192450	20.0
unknown6.73	6.73	40.1	ng	2394140	1	6.96	1192450	20.0
Decane	6.80	3.8	ng	227559	1	6.96	1192450	20.0
Benzene, 1-methyl...	7.04	7.0	ng	416569	1	6.96	1192450	20.0
Cyclohexane, 1,1-...	7.23	3.4	ng	202275	1	6.96	1192450	20.0
Naphthalene, deca...	7.36	4.1	ng	245394	1	6.96	1192450	20.0
unknown7.61	7.61	3.1	ng	200449	2	8.25	1286830	20.0
11-Dodecenol	7.88	4.5	ng	289265	2	8.25	1286830	20.0
unknown9.92	9.92	4.1	ng	248520	3	10.01	1206130	20.0
unknown10.92	10.92	3.7	ng	197211	4	11.49	1066030	20.0
Benzene, 1-methyl...	11.61	3.3	ng	173619	4	11.49	1066030	20.0
unknown12.24	12.24	3.7	ng	198379	4	11.49	1066030	20.0
Phenanthrene, 2,5...	12.44	3.5	ng	187909	4	11.49	1066030	20.0
Eicosane	13.97	14.9	ng	1120080	5	14.13	1504300	20.0
Chrysene, 3-methyl-	14.52	4.6	ng	344048	5	14.13	1504300	20.0
28-Nor-17.beta.(H...	16.32	8.9	ng	462053	6	15.62	1032420	20.0
unknown17.35	17.35	6.3	ng	322753	6	15.62	1032420	20.0