LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\
Data File : BF111632.D
Acq On : 20 Dec 2018 11:54
Operator : JU/SJ
Sample : J6353-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P001-SS002-0002-01

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.010	320	327	333	rBV	221201	305580	3.18%	0.267%
2	5.122	511	516	522	rVB	210271	274092	2.86%	0.239%
3	5.522	576	584	588	rBV2	3807238	5172403	53.91%	4.517%
4	5.739	616	621	629	rBV2	747158	790725	8.24%	0.690%
5	6.257	706	709	717	rVB4	165682	227795	2.37%	0.199%
6	6.410	730	735	737	rVV2	505774	587427	6.12%	0.513%
7	6.457	741	743	747	rVV2	344340	401861	4.19%	0.351%
8	6.528	747	755	763	rVB2	4337179	6349087	66.17%	5.544%
9	6.616	767	770	772	rBV2	346251	415977	4.34%	0.363%
10	6.669	773	779	782	rVV	5073635	5441809	56.72%	4.752%
11	6.728	786	789	792	rVV	662093	538411	5.61%	0.470%
12	6.775	795	797	801	rVV3	161847	216502	2.26%	0.189%
13	6.816	801	804	806	rVV3	321074	313474	3.27%	0.274%
14	6.839	806	808	814	rVB4	219615	212070	2.21%	0.185%
15	6.898	814	818	820	rBV	1542206	1223758	12.75%	1.069%
16	6.957	826	828	829	rBV	413572	302876	3.16%	0.264%
17	6.981	829	832	835	rVV	1621108	1381994	14.40%	1.207%
18	7.022	835	839	842	rVV	6894689	6314143	65.81%	5.514%
19	7.057	842	845	848	rVB	3573726	3109115	32.40%	2.715%
20	7.139	853	859	861	rBV2	170277	207062	2.16%	0.181%
21	7.216	869	872	875	rBV2	298938	312736	3.26%	0.273%
22	7.292	881	885	889	rBV	463112	519528	5.41%	0.454%
23	7.457	906	913	914	rVV	2887549	3243422	33.80%	2.832%
24	7.475	914	916	924	rVB2	1028181	985821	10.27%	0.861%
25	7.551	925	929	931	rBV2	279780	289639	3.02%	0.253%
26	7.575	931	933	938	rBV4	319531	340923	3.55%	0.298%
27	7.616	938	940	943	rBV	322133	262365	2.73%	0.229%
28	7.692	951	953	956	rBV	249440	227500	2.37%	0.199%
29	7.763	962	965	969	rBV2	199795	300652	3.13%	0.263%
30	7.922	986	992	996	rBV4	316235	567733	5.92%	0.496%
31	7.957	996	998	1007	rVB8	118285	315873	3.29%	0.276%
32	8.075	1015	1018	1023	rVB2	345417	346363	3.61%	0.302%
33	8.139	1023	1029	1031	rBV3	281311	364836	3.80%	0.319%
34	8.175	1031	1035	1038	rBV	1708930	1792978	18.69%	1.566%

LSC Area Percent Report

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Acq On : 20 Dec 2018 11:54
Operator : JU/SJ
Sample : J6353-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P001-SS002-0002-01

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	8.328	1058	1061	1063	rVV	539853	497070	5.18%	0.434%
36	8.357	1063	1066	1069	rVB2	536805	478139	4.98%	0.418%
37	8.451	1079	1082	1084	rBV	671265	531920	5.54%	0.464%
38	8.604	1106	1108	1111	rBV3	444629	391356	4.08%	0.342%
39	8.645	1111	1115	1116	rVV2	297170	276002	2.88%	0.241%
40	8.663	1116	1118	1126	rVB3	440321	593222	6.18%	0.518%
41	8.745	1126	1132	1134	rBV4	337672	532606	5.55%	0.465%
42	8.869	1151	1153	1156	rBV3	395939	437096	4.56%	0.382%
43	8.933	1162	1164	1169	rVB3	198097	302100	3.15%	0.264%
44	8.992	1169	1174	1177	rBV5	489081	713699	7.44%	0.623%
45	9.039	1177	1182	1186	rVB	2092285	2157595	22.49%	1.884%
46	9.122	1193	1196	1199	rBV2	928634	889099	9.27%	0.776%
47	9.210	1209	1211	1214	rBV2	431246	595073	6.20%	0.520%
48	9.257	1214	1219	1221	rVV	4688872	4282853	44.64%	3.740%
49	9.304	1223	1227	1230	rVB3	889692	1093500	11.40%	0.955%
50	9.345	1230	1234	1236	rBV3	640461	979099	10.20%	0.855%
51	9.369	1236	1238	1240	rVB2	928993	622321	6.49%	0.543%
52	9.392	1240	1242	1244	rVB2	293401	194394	2.03%	0.170%
53	9.433	1246	1249	1250	rBV	377351	378919	3.95%	0.331%
54	9.486	1255	1258	1261	rBV	1788968	1661997	17.32%	1.451%
55	9.545	1265	1268	1272	rVB	1989425	1722378	17.95%	1.504%
56	9.580	1272	1274	1277	rVB2	488438	434431	4.53%	0.379%
57	9.622	1277	1281	1284	rBV2	2316206	2450303	25.54%	2.140%
58	9.645	1284	1285	1288	rVB2	476256	396590	4.13%	0.346%
59	9.716	1295	1297	1301	rBV3	888091	847114	8.83%	0.740%
60	9.780	1304	1308	1314	rVB3	1917241	3147197	32.80%	2.748%
61	9.839	1314	1318	1319	rBV2	1000477	1087548	11.33%	0.950%
62	9.892	1325	1327	1329	rVB3	372153	291675	3.04%	0.255%
63	9.939	1332	1335	1336	rBV	1617728	1430628	14.91%	1.249%
64	10.016	1345	1348	1351	rBV	1854141	1686424	17.58%	1.473%
65	10.045	1351	1353	1355	rVB3	416906	315023	3.28%	0.275%
66	10.069	1355	1357	1360	rVB4	345008	295702	3.08%	0.258%
67	10.098	1360	1362	1365	rVB4	300436	261430	2.72%	0.228%
68	10.139	1366	1369	1371	rBV3	476129	473081	4.93%	0.413%
69	10.180	1371	1376	1378	rBV2	2306888	1984742	20.69%	1.733%
70	10.227	1382	1384	1386	rBV2	338136	277591	2.89%	0.242%
71	10.280	1391	1393	1396	rVB4	341649	328909	3.43%	0.287%

LSC Area Percent Report

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Operator : JU/SJ
Sample : J6353-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P001-SS002-0002-01

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 >
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Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	10.316	1396	1399	1401	rBV2	747675	783242	8.16%	0.684%
73	10.374	1407	1409	1412	rVB2	525993	467155	4.87%	0.408%
74	10.427	1416	1418	1421	rVB3	360285	284007	2.96%	0.248%
75	10.551	1436	1439	1443	rVB3	622866	680518	7.09%	0.594%
76	10.598	1444	1447	1450	rVB5	377369	395089	4.12%	0.345%
77	10.722	1464	1468	1471	rBV	2856542	2441946	25.45%	2.132%
78	10.822	1482	1485	1487	rBV2	347557	329044	3.43%	0.287%
79	10.845	1487	1489	1496	rVB	812118	884004	9.21%	0.772%
80	10.921	1500	1502	1505	rVB2	329620	274900	2.87%	0.240%
81	11.086	1527	1530	1533	rVB	1132544	892817	9.31%	0.780%
82	11.192	1546	1548	1551	rVB2	343289	286923	2.99%	0.251%
83	11.298	1560	1566	1568	rBV	8244845	9594803	100.00%	8.378%
84	11.327	1568	1571	1572	rVV3	337133	389869	4.06%	0.340%
85	11.351	1572	1575	1578	rVB	2760234	2401107	25.03%	2.097%
86	11.421	1584	1587	1589	rVB	1179780	1106914	11.54%	0.967%
87	11.480	1595	1597	1601	rVB4	481685	400907	4.18%	0.350%
88	11.521	1601	1604	1607	rBV2	1598751	1262952	13.16%	1.103%
89	11.563	1608	1611	1615	rVB	1474735	1517293	15.81%	1.325%
90	11.845	1656	1659	1662	rBV	1554705	1262205	13.16%	1.102%
91	11.951	1674	1677	1679	rBV2	855173	794154	8.28%	0.693%
92	12.010	1685	1687	1690	rVB	618217	453732	4.73%	0.396%
93	12.251	1725	1728	1733	rVB2	813774	803343	8.37%	0.701%
94	12.733	1807	1810	1815	rBV2	954858	916316	9.55%	0.800%
95	12.880	1832	1835	1839	rVB	799894	785331	8.18%	0.686%
96	13.004	1852	1856	1858	rBV	2696673	2465234	25.69%	2.153%
97	13.139	1877	1879	1882	rBV	693664	624249	6.51%	0.545%
98	14.057	2032	2035	2039	rVB	1363165	1360343	14.18%	1.188%
99	14.733	2148	2150	2159	rVB	772674	932971	9.72%	0.815%
100	15.533	2283	2286	2290	rVB	925884	1033525	10.77%	0.902%

Sum of corrected areas: 114520249

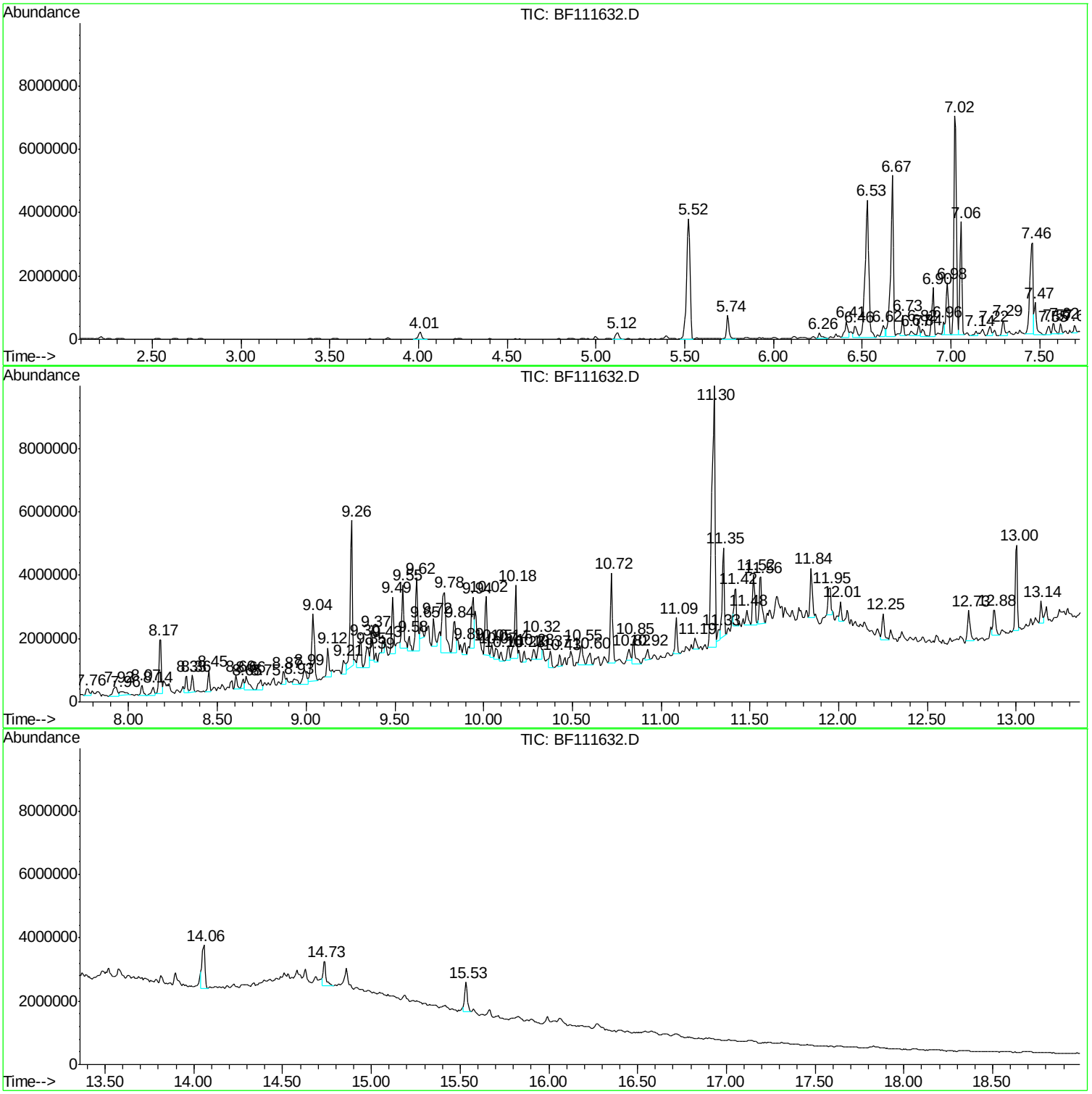
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\
Data File : BF111632.D
Acq On : 20 Dec 2018 11:54
Operator : JU/SJ
Sample : J6353-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P001-SS002-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\
Data File : BF111632.D
Acq On : 20 Dec 2018 11:54
Operator : JU/SJ
Sample : J6353-05
Misc :
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Instrument : BNA_F
ClientSampleId : P001-SS002-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

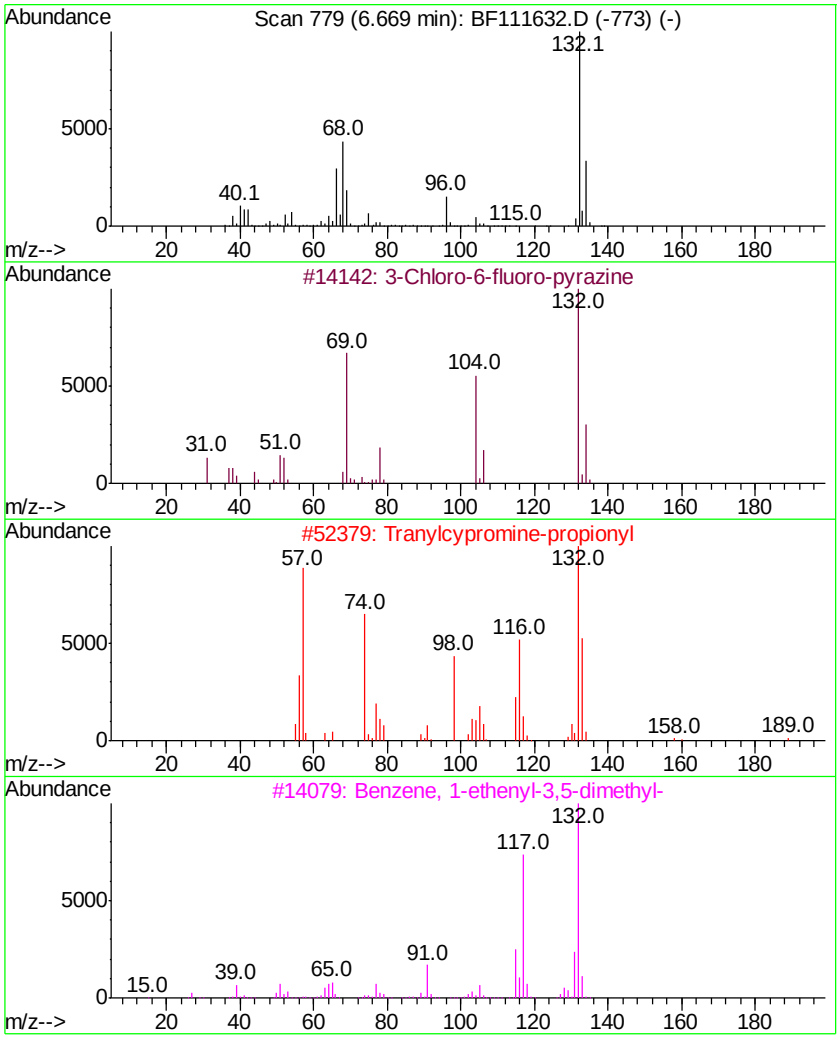
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

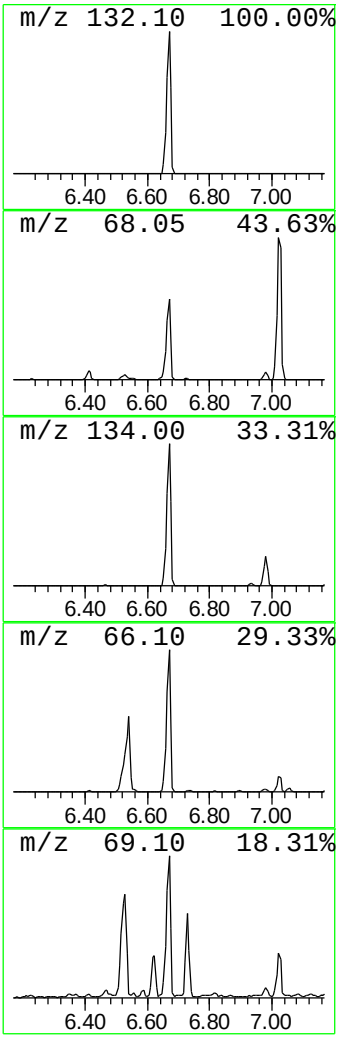
****

Peak Number 1 unknown6.67 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.67	88.94 ng	5441810	1,4-Dichlorobenzene-d4	6.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16
2	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
3	Benzene, 1-ethenyl-3,5-dimethyl-	132	C10H12	005379-20-4	9
4	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9
5	1-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-59-9	9





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Data File : BF111632.D
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Operator : JU/SJ
Sample : J6353-05
Misc :
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Instrument : BNA_F
ClientSampleId : P001-SS002-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

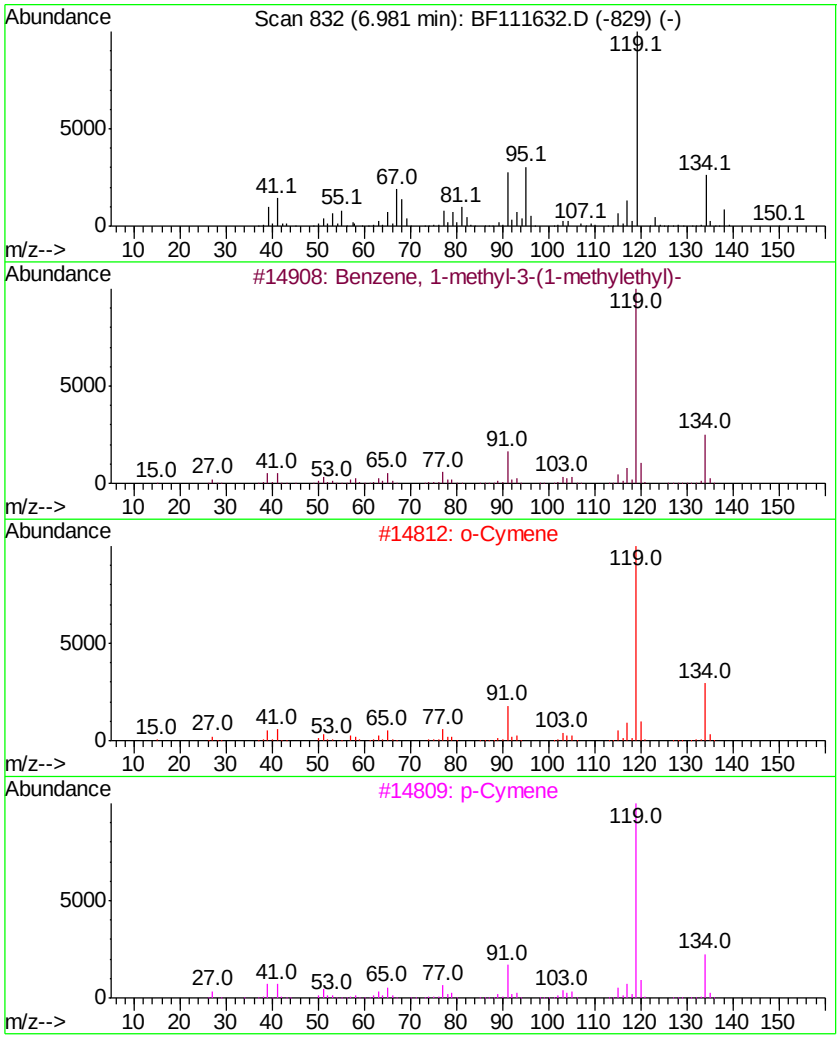
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

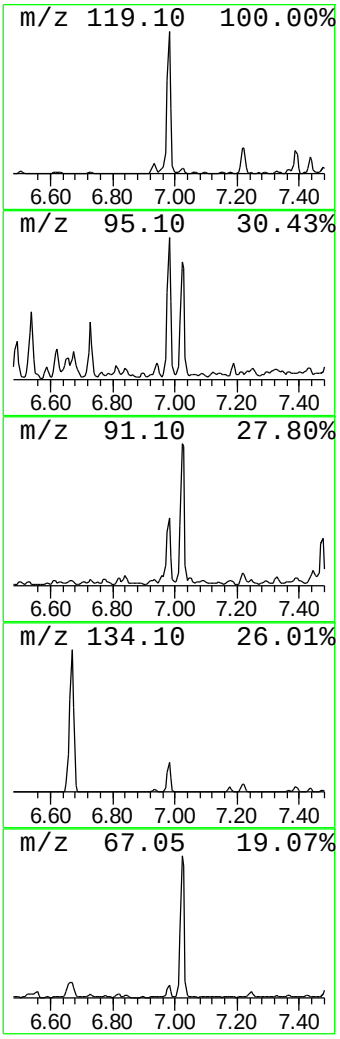
****

Peak Number 2 Benzene, 1-methyl-3-(1-meth... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.98	22.59 ng	1381990	1,4-Dichlorobenzene-d4	6.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	60
2	o-Cymene	134	C10H14	000527-84-4	53
3	p-Cymene	134	C10H14	000099-87-6	53
4	1,3,8-p-Menthatriene	134	C10H14	018368-95-1	49
5	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	47





Library Search Compound Report

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Data File : BF111632.D
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Instrument : BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
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TIC Library : C:\DATABASE\NIST11.L
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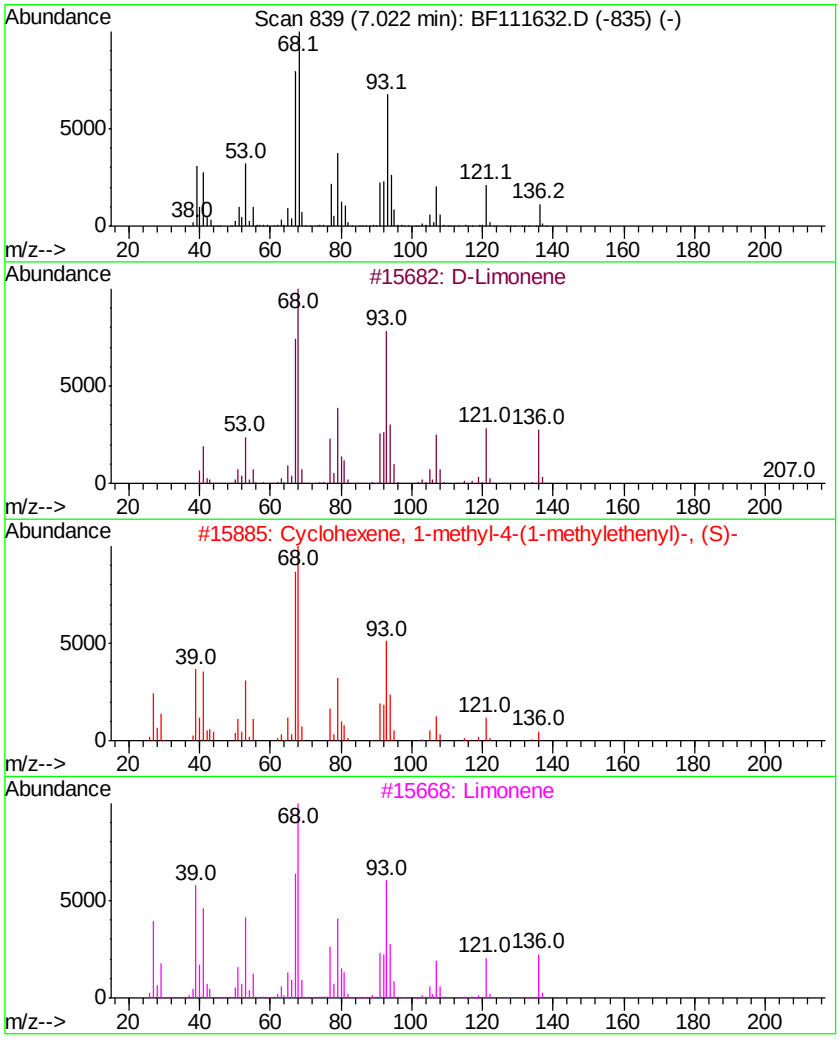
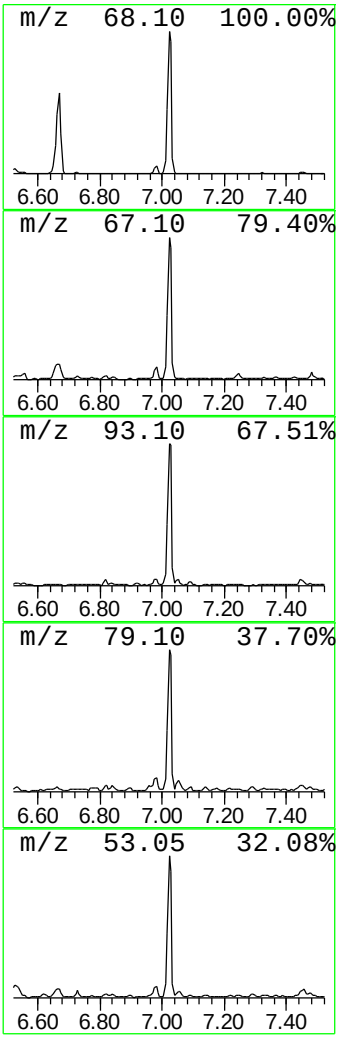
****

Peak Number 3 D-Limonene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.02	103.19 ng	6314140	1,4-Dichlorobenzene-d4	6.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	D-Limonene	136	C10H16	005989-27-5	98
2	Cyclohexene, 1-methyl-4-(1-methy...	136	C10H16	005989-54-8	95
3	Limonene	136	C10H16	000138-86-3	91
4	Cyclohexene, 1-methyl-5-(1-methy...	136	C10H16	013898-73-2	90
5	1,5-Cyclooctadiene, 1,5-dimethyl-	136	C10H16	003760-14-3	86





Library Search Compound Report

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

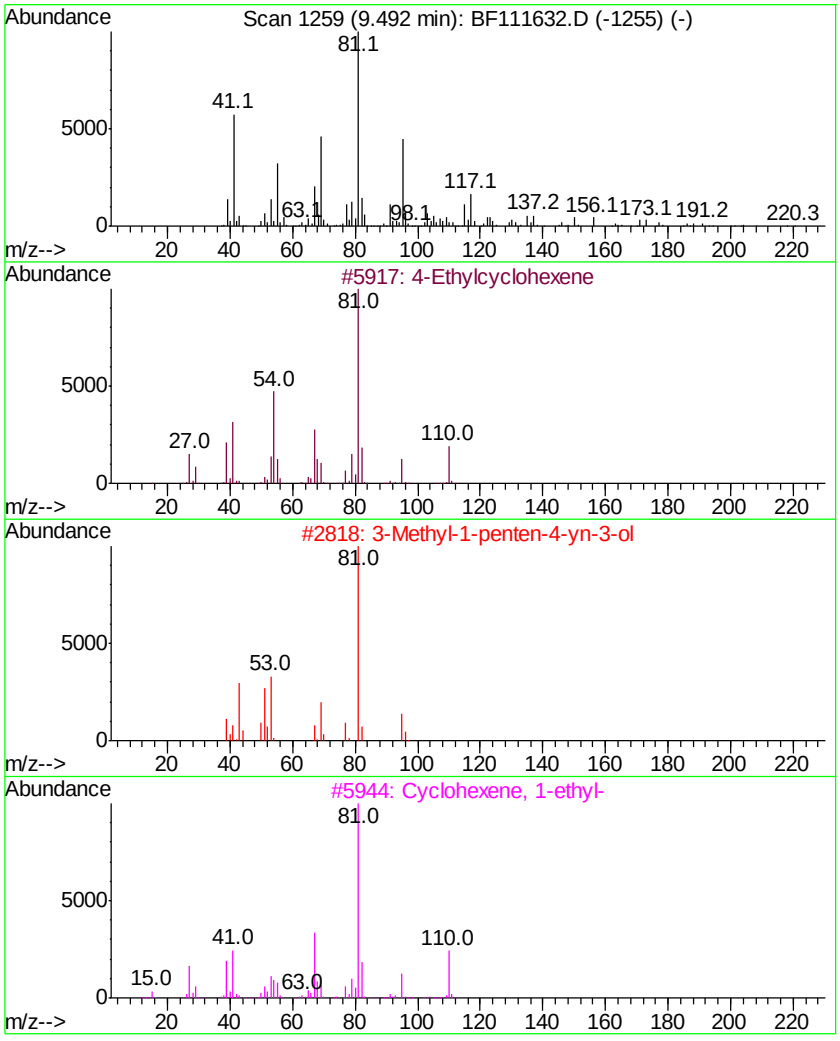
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

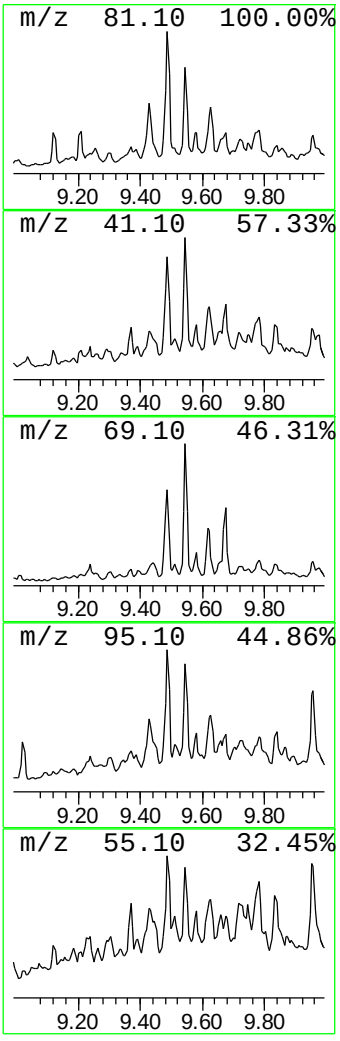
****

Peak Number 5 unknown9.49 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.49	23.23 ng	1662000	Acenaphthene-d10	9.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Ethylcyclohexene	110	C8H14	003742-42-5	35
2	3-Methyl-1-penten-4-yn-3-ol	96	C6H8O	003230-69-1	27
3	Cyclohexene, 1-ethyl-	110	C8H14	001453-24-3	25
4	2-n-Butyl furan	124	C8H12O	004466-24-4	25
5	1,5-Heptadiene, 3,6-dimethyl-	124	C9H16	034891-10-6	25





Library Search Compound Report

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Data File : BF111632.D
Acq On : 20 Dec 2018 11:54
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Misc :
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Instrument : BNA_F
ClientSampleId : P001-SS002-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

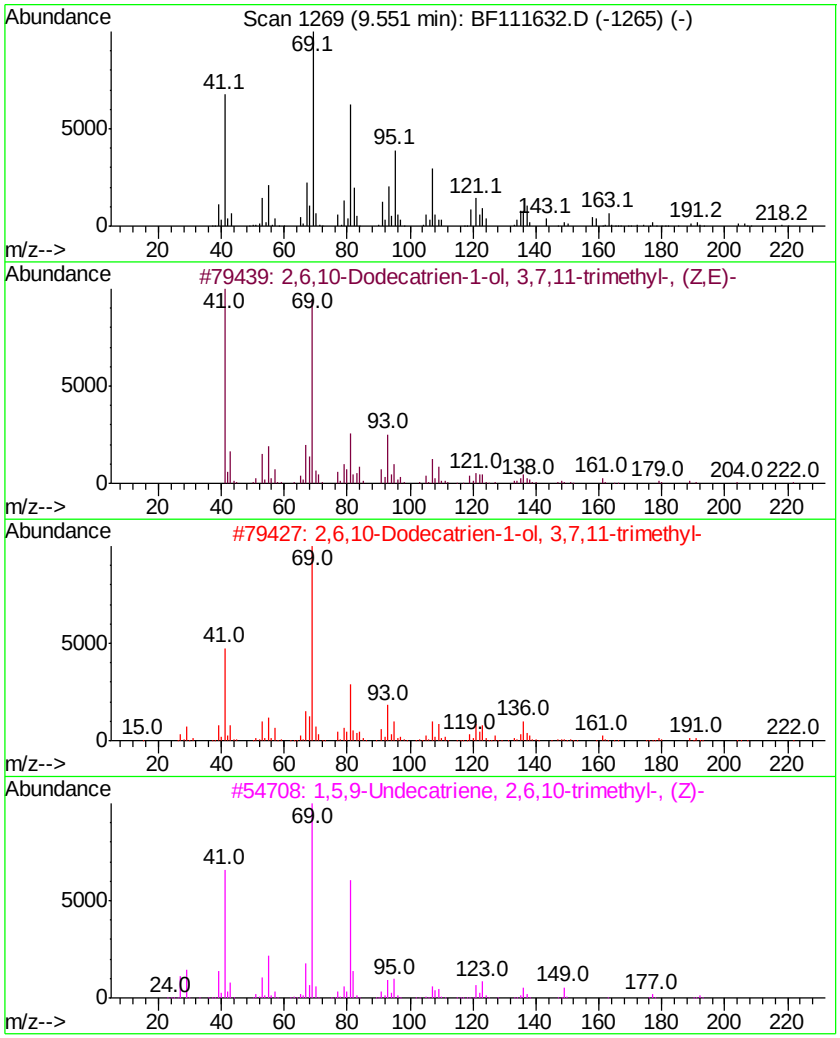
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

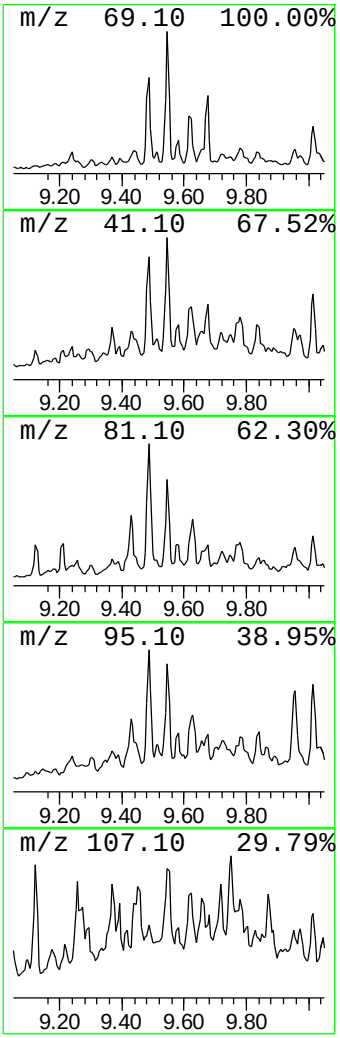
****

Peak Number 6 2,6,10-Dodecatrien-1-ol, 3,... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.55	24.08 ng	1722380	Acenaphthene-d10	9.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,6,10-Dodecatrien-1-ol, 3,7,11-...	222	C15H26O	003790-71-4	64
2	2,6,10-Dodecatrien-1-ol, 3,7,11-...	222	C15H26O	004602-84-0	59
3	1,5,9-Undecatriene, 2,6,10-trime...	192	C14H24	062951-96-6	59
4	2-Octene, 2-methyl-6-methylene-	138	C10H18	010054-09-8	59
5	1,4-Hexadiene, 3,3,5-trimethyl-	124	C9H16	074753-00-7	52





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Sample : J6353-05
Misc :
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ClientSampleId : P001-SS002-0002-01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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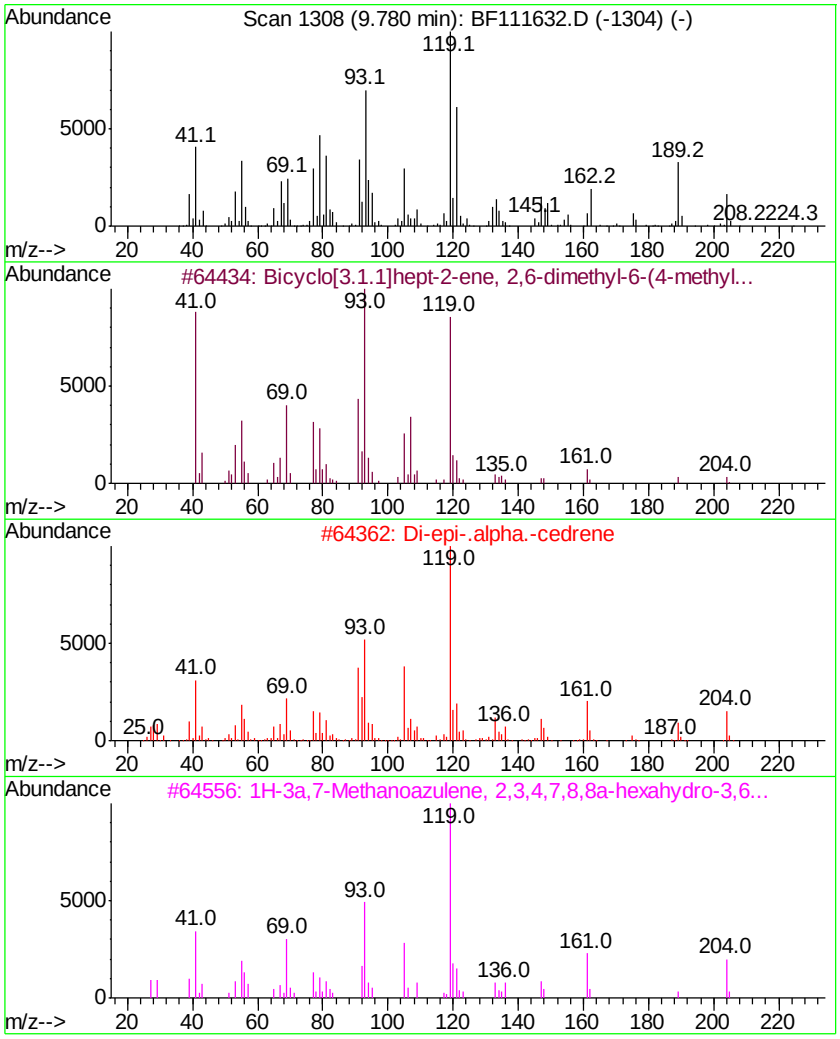
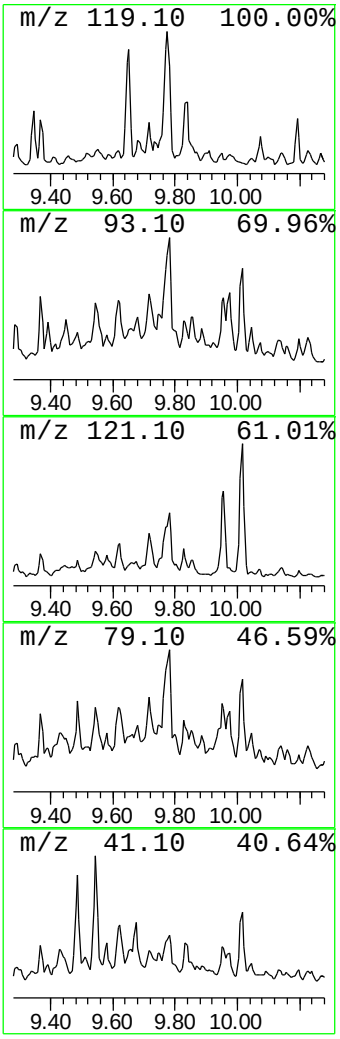
Peak Number 7 Bicyclo[3.1.1]hept-2-ene, 2... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.78	44.00 ng	3147200	Acenaphthene-d10	9.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[3.1.1]hept-2-ene, 2,6-di...	204	C15H24	017699-05-7	60
2	Di-epi-.alpha.-cedrene	204	C15H24	050894-66-1	60
3	1H-3a,7-Methanoazulene, 2,3,4,7,...	204	C15H24	000469-61-4	49
4	Bicyclo[3.1.1]heptane, 6-methyl-...	204	C15H24	055123-21-2	38
5	Benzene, 1-(1,5-dimethylhexyl)-4...	204	C15H24	001461-02-5	25





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ClientSampleId : P001-SS002-0002-01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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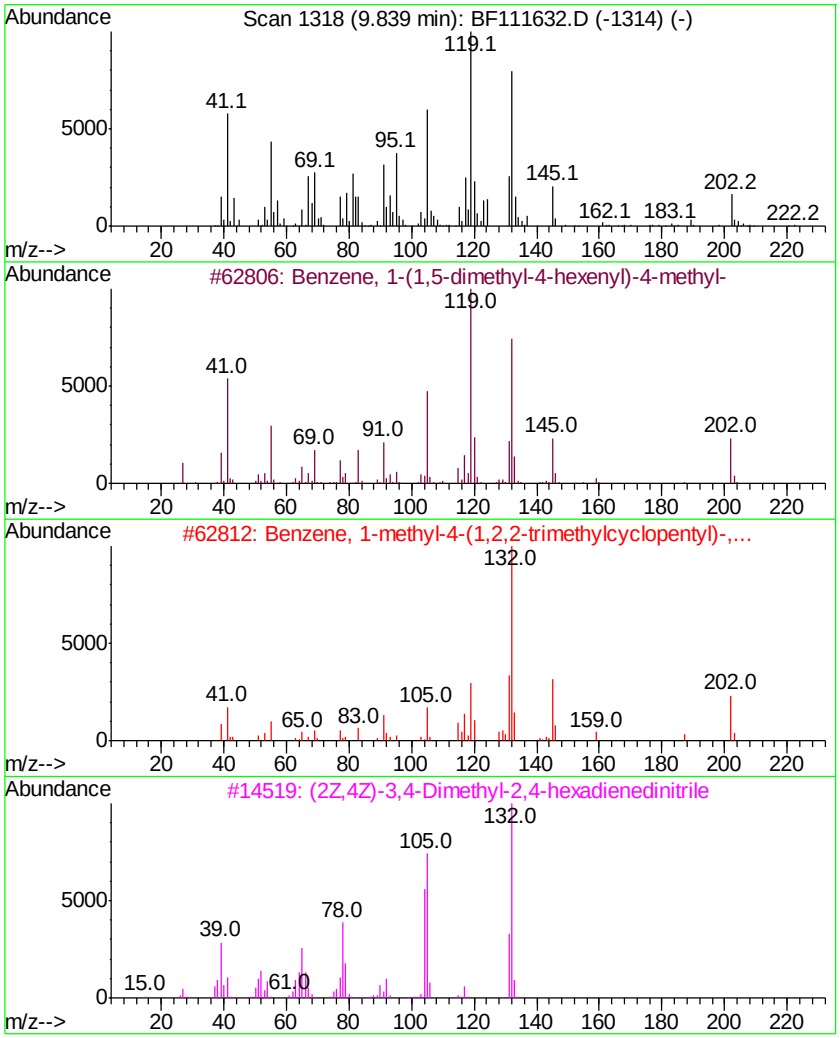
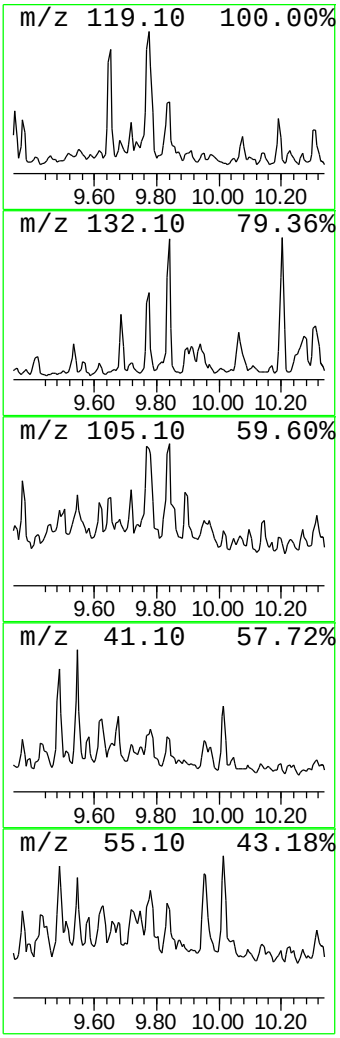
Peak Number 8 Benzene, 1-(1,5-dimethyl-4-... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.84	15.20 ng	1087550	Acenaphthene-d10	9.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-(1,5-dimethyl-4-hexen...	202	C15H22	000644-30-4	97
2	Benzene, 1-methyl-4-(1,2,2-trime...	202	C15H22	016982-00-6	55
3	(2Z,4Z)-3,4-Dimethyl-2,4-hexadie...	132	C8H8N2	001557-61-5	38
4	Benzene, 4-ethenyl-1,2-dimethyl-	132	C10H12	027831-13-6	27
5	1,2,4-Benzotriazine, 3-amino, 2-...	162	C7H6N4O	027238-43-3	27





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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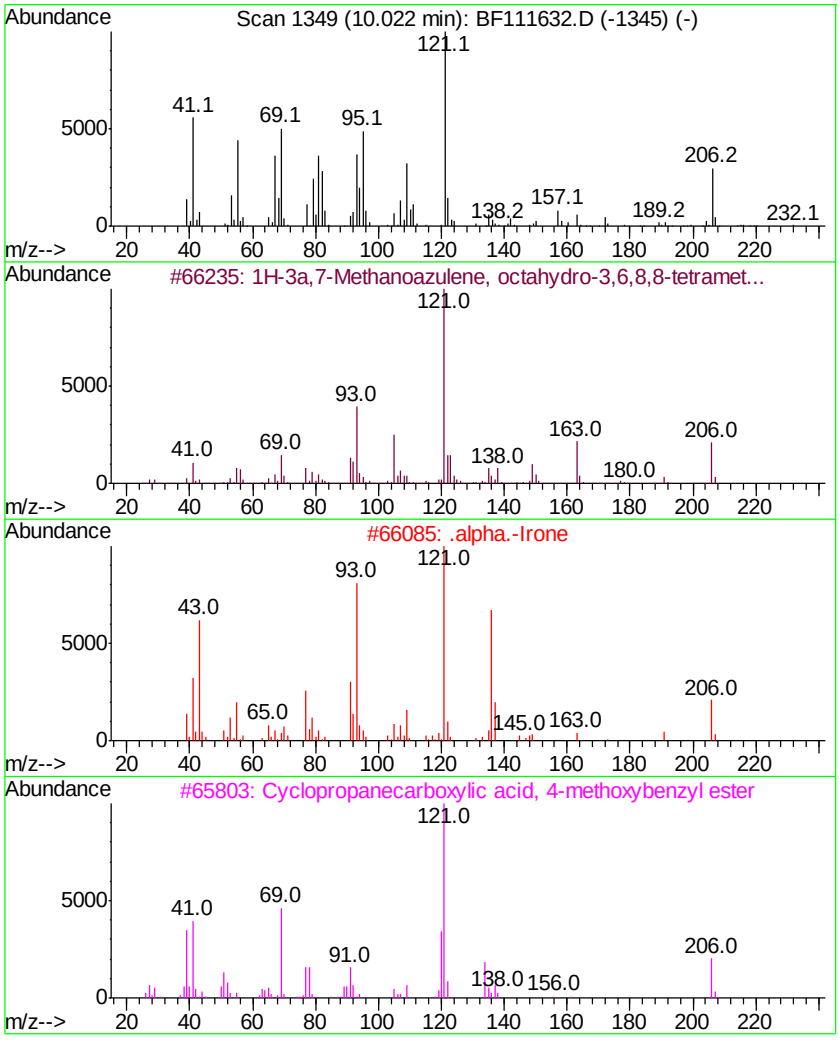
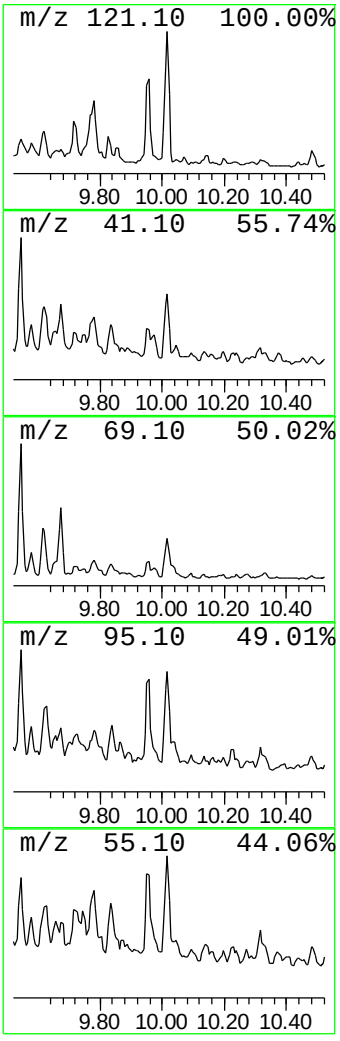
Peak Number 9 1H-3a,7-Methanoazulene, oct... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.02	23.58 ng	1686420	Acenaphthene-d10	9.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-3a,7-Methanoazulene, octahydr...	206	C15H26	013567-54-9	53
2	.alpha.-Irone	206	C14H22O	000079-69-6	43
3	Cyclopropanecarboxylic acid, 4-m...	206	C12H14O3	056105-38-5	38
4	Phenol, 4-(1-methylpropyl)-	150	C10H14O	000099-71-8	30
5	N-Methyl-o-toluidine	121	C8H11N	000611-21-2	27





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ClientSampleId : P001-SS002-0002-01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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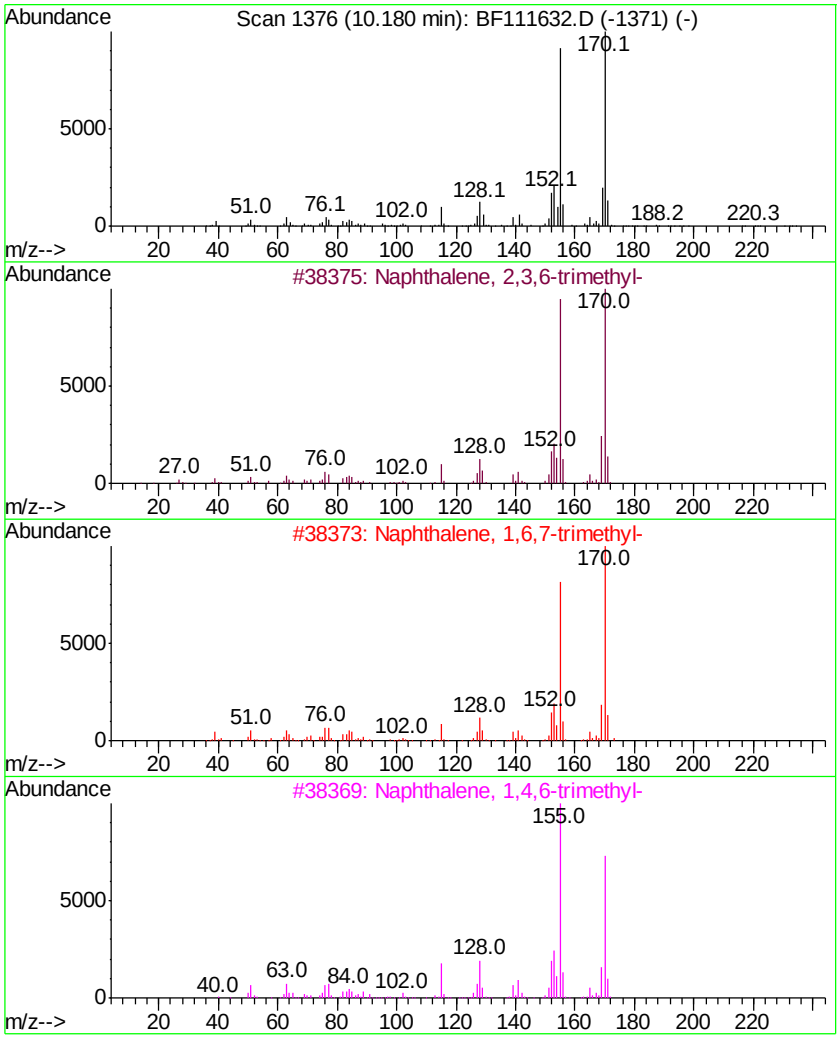
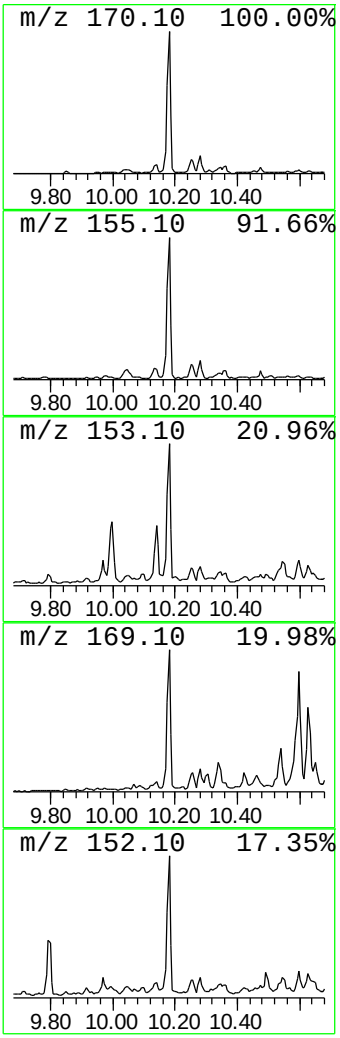
Peak Number 10 Naphthalene, 2,3,6-trimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.18	27.75 ng	1984740	Acenaphthene-d10	9.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	98
2	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	97
3	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	96
4	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	93
5	1-(2,2-Dimethylcyclopropyl)-2-ph...	170	C13H14	1000294-91-1	90





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ClientSampleId : P001-SS002-0002-01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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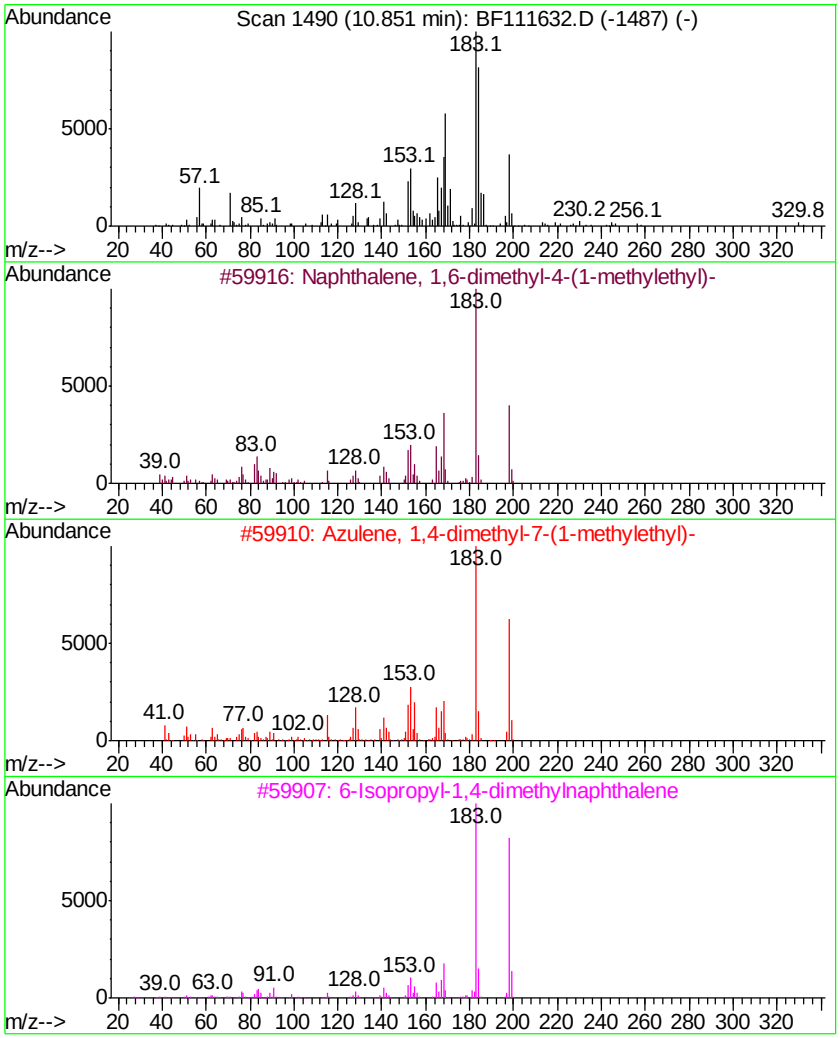
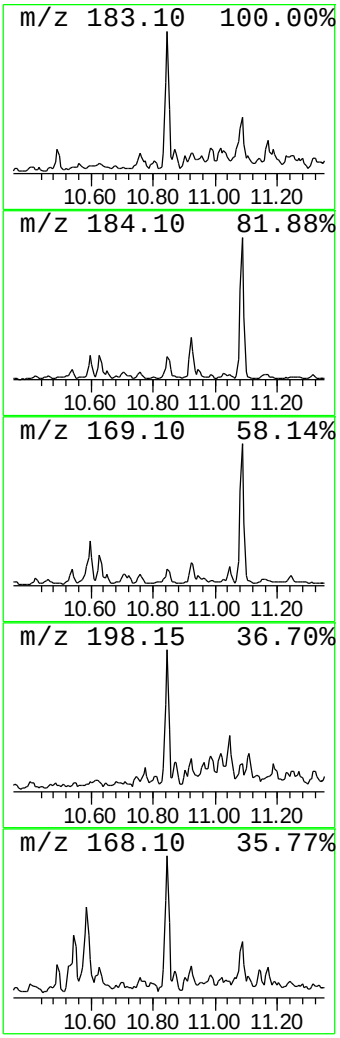
Peak Number 11 Naphthalene, 1,6-dimethyl-4... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.85	15.97 ng	884004	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6-dimethyl-4-(1-m...	198	C15H18	000483-78-3	86
2	Azulene, 1,4-dimethyl-7-(1-methy...	198	C15H18	000489-84-9	83
3	6-Isopropyl-1,4-dimethylnaphthalene	198	C15H18	000489-77-0	58
4	2,3-Dihydro-1,3-dimethyl(1H)cycl...	198	C13H14N2	1000112-95-8	50
5	Phenol, 4-(1-phenylethyl)-	198	C14H14O	001988-89-2	38





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Misc :
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ClientSampleId : P001-SS002-0002-01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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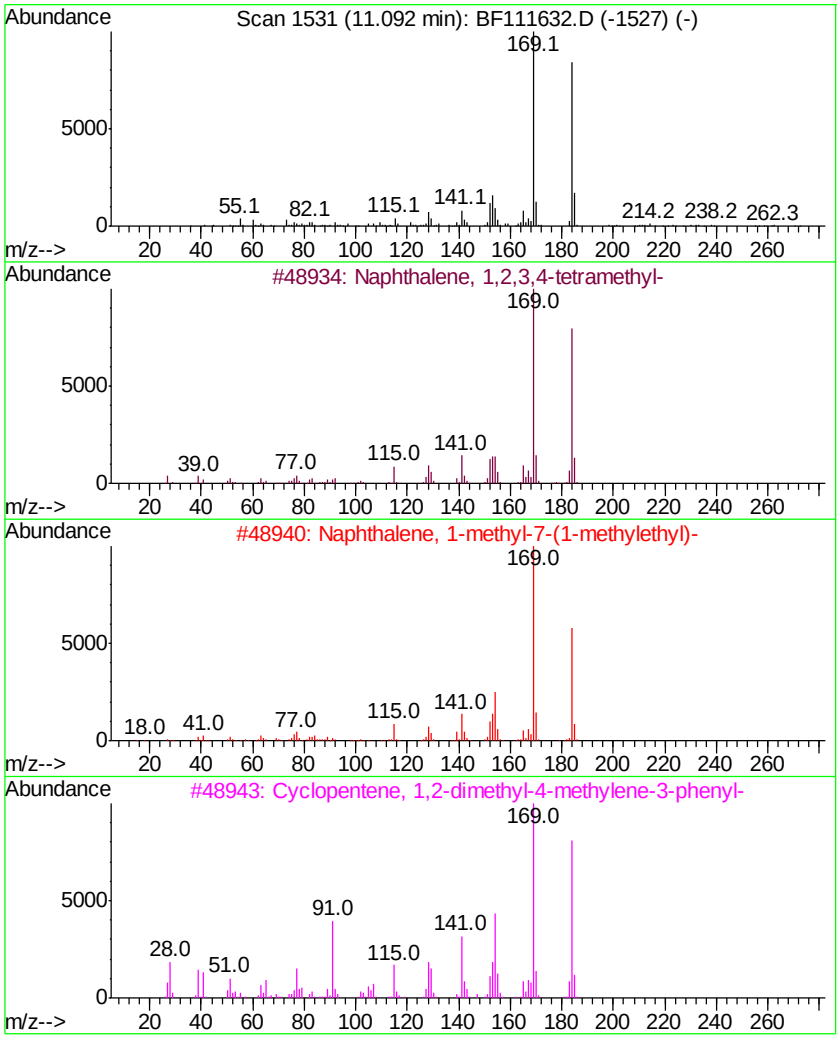
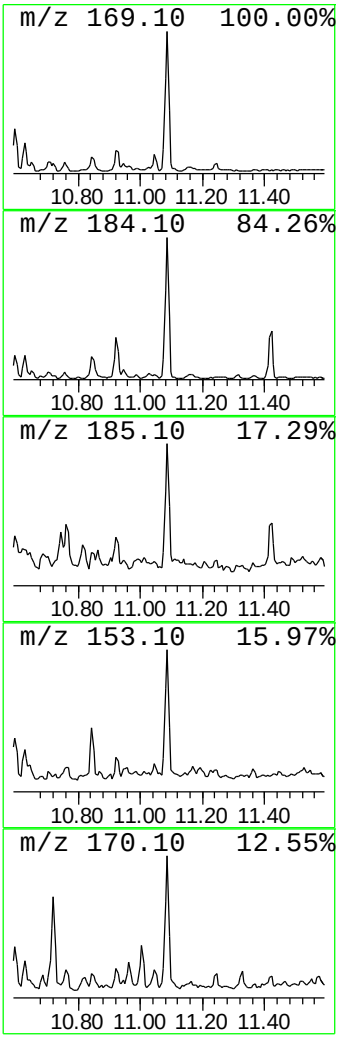
Peak Number 12 Naphthalene, 1,2,3,4-tetram... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.09	16.13 ng	892817	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetramethyl-	184	C14H16	003031-15-0	96
2	Naphthalene, 1-methyl-7-(1-methy...	184	C14H16	000490-65-3	93
3	Cyclopentene, 1,2-dimethyl-4-met...	184	C14H16	1000152-22-4	90
4	Chamazulene	184	C14H16	000529-05-5	90
5	3,4-Dimethoxy-6-methylpyrocatechol	184	C9H12O4	054826-79-8	74





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Operator : JU/SJ
Sample : J6353-05
Misc :
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Instrument : BNA_F
ClientSampleId : P001-SS002-0002-01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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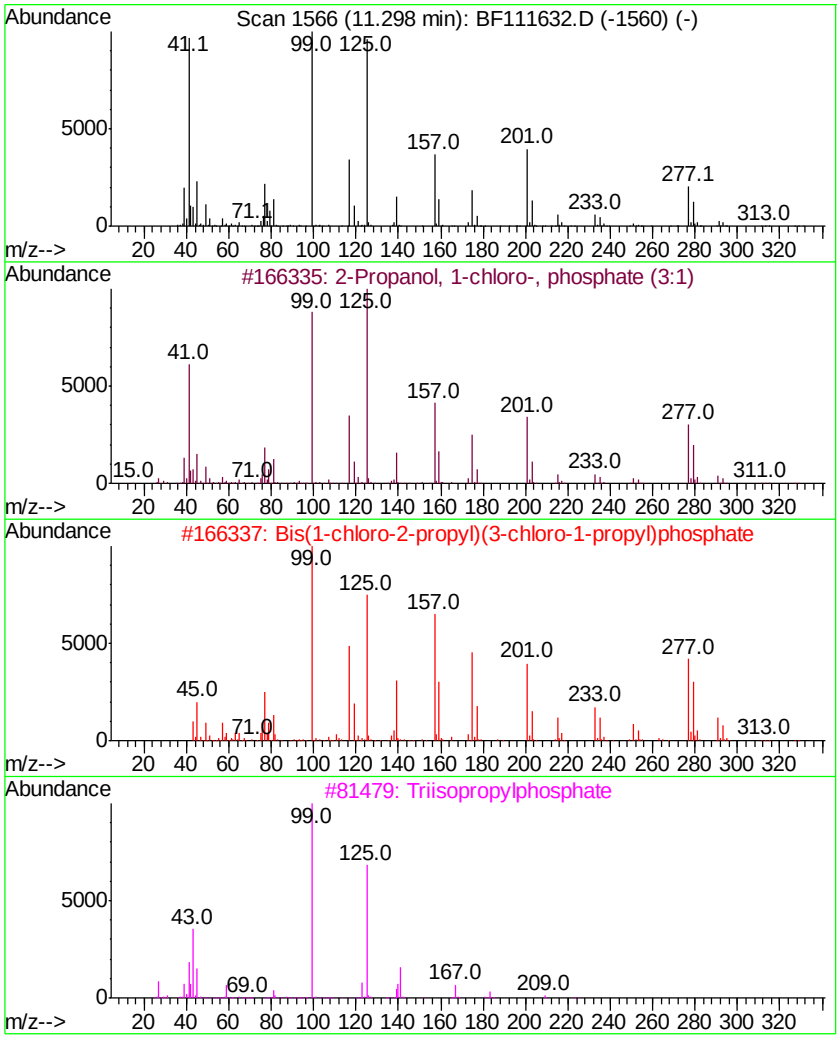
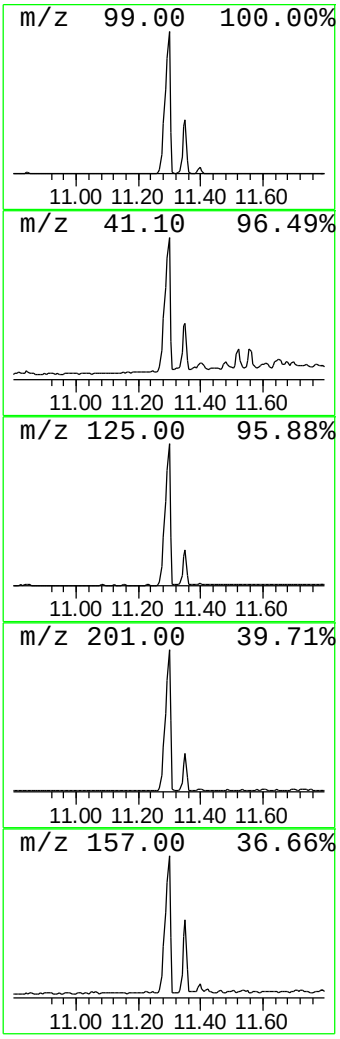
Peak Number 13 2-Propanol, 1-chloro-, phos... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.30	173.36 ng	9594800	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-chloro-, phosphate...	326	C9H18Cl3O4P	013674-84-5	90
2	Bis(1-chloro-2-propyl)(3-chloro-...	326	C9H18Cl3O4P	137909-40-1	27
3	Triisopropylphosphate	224	C9H21O4P	000513-02-0	25
4	Bis(3-chloro-1-propyl)(1-chloro-...	326	C9H18Cl3O4P	137888-35-8	10
5	1,2,5-Oxadiazol-3-amine, 4-[5-(4...	277	C11H8ClN5O2	1000276-59-0	9





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Sample : J6353-05
Misc :
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Instrument : BNA_F
ClientSampleId : P001-SS002-0002-01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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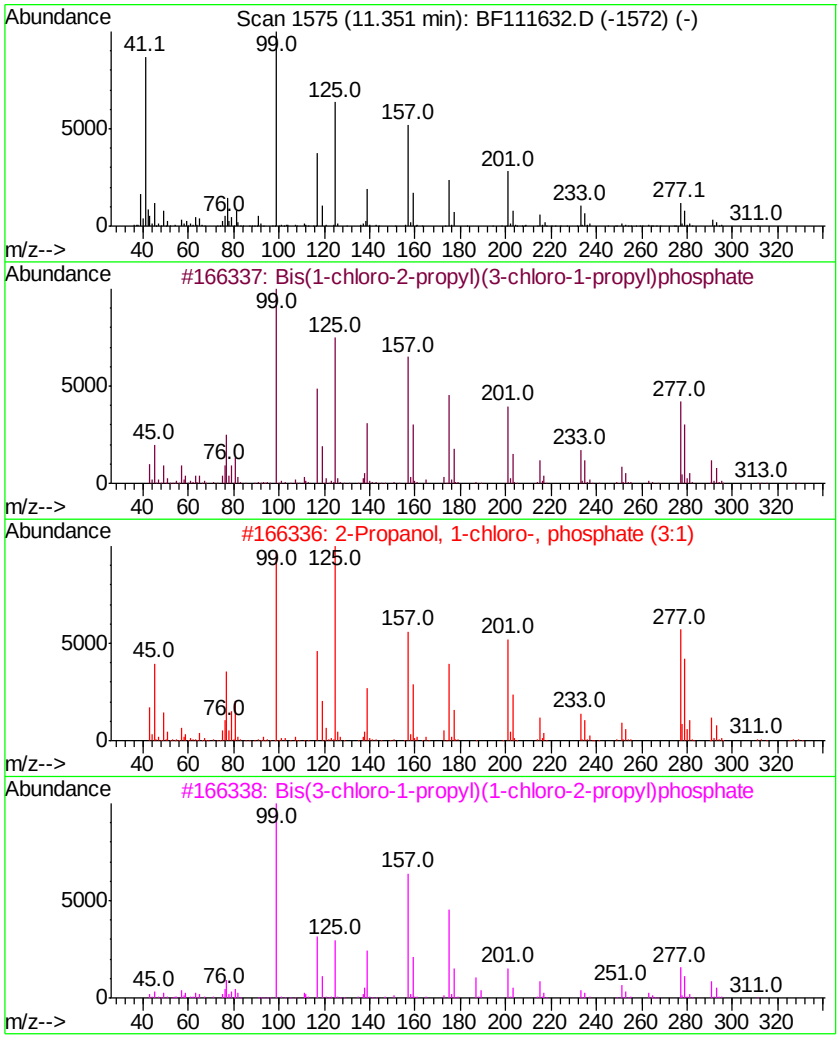
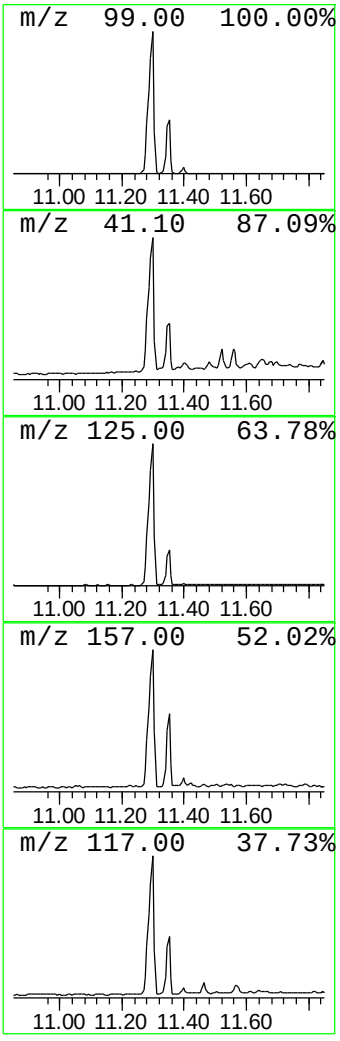
Peak Number 14 Bis(1-chloro-2-propyl)(3-ch... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.35	43.38 ng	2401110	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bis(1-chloro-2-propyl)(3-chloro-...	326	C9H18Cl3O4P	137909-40-1	70
2	2-Propanol, 1-chloro-, phosphate...	326	C9H18Cl3O4P	013674-84-5	58
3	Bis(3-chloro-1-propyl)(1-chloro-...	326	C9H18Cl3O4P	137888-35-8	38
4	Sarin	140	C4H10FO2P	000107-44-8	25
5	Triisopropylphosphate	224	C9H21O4P	000513-02-0	17





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ClientSampleId : P001-SS002-0002-01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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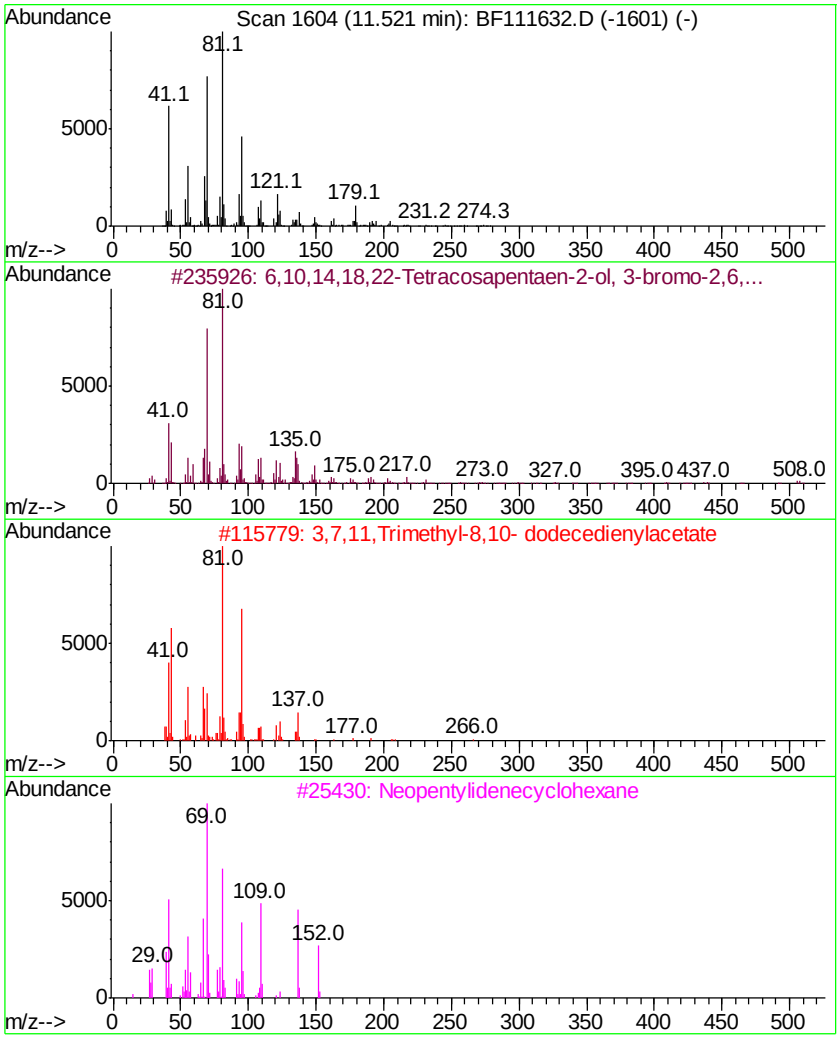
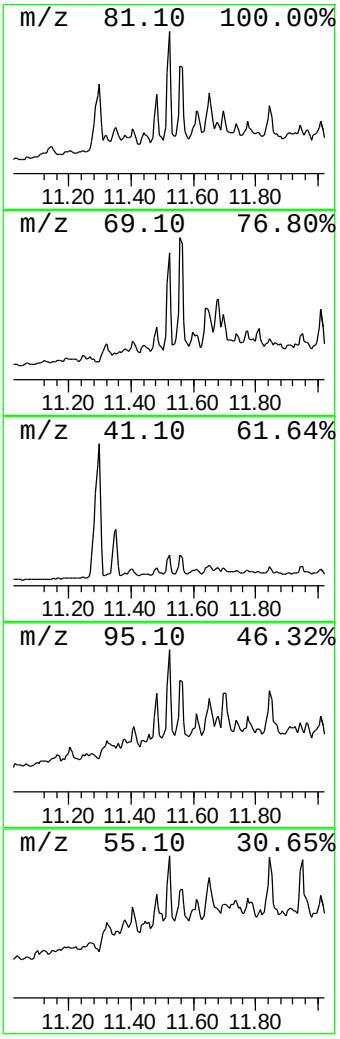
Peak Number 15 6,10,14,18,22-Tetracosapent... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.52	22.82 ng	1262950	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6,10,14,18,22-Tetracosapentaen-2...	506	C30H51BrO	065746-05-6	59
2	3,7,11,Trimethyl-8,10- dodecedie...	266	C17H30O2	1000374-10-3	43
3	Neopentylidenecyclohexane	152	C11H20	039546-80-0	38
4	1-Methylene-2b-hydroxymethyl-3,3...	222	C15H26O	1000144-10-6	35
5	4-Ethylcyclohexene	110	C8H14	003742-42-5	35





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ClientSampleId : P001-SS002-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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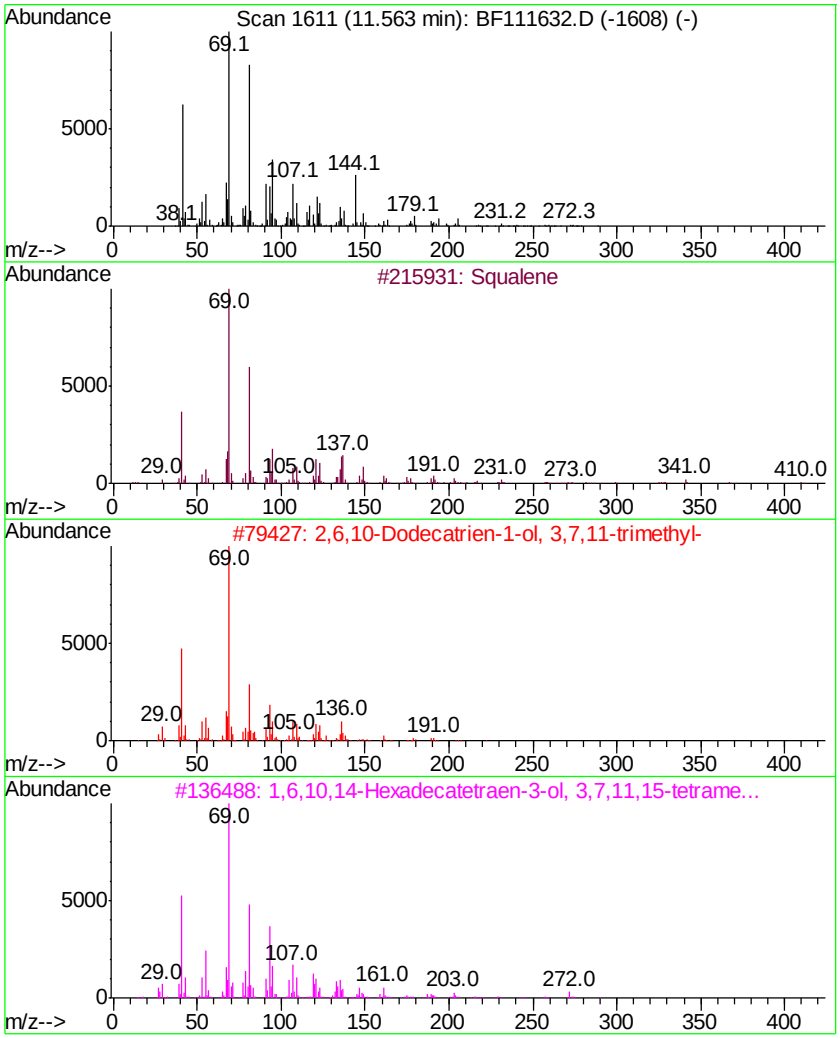
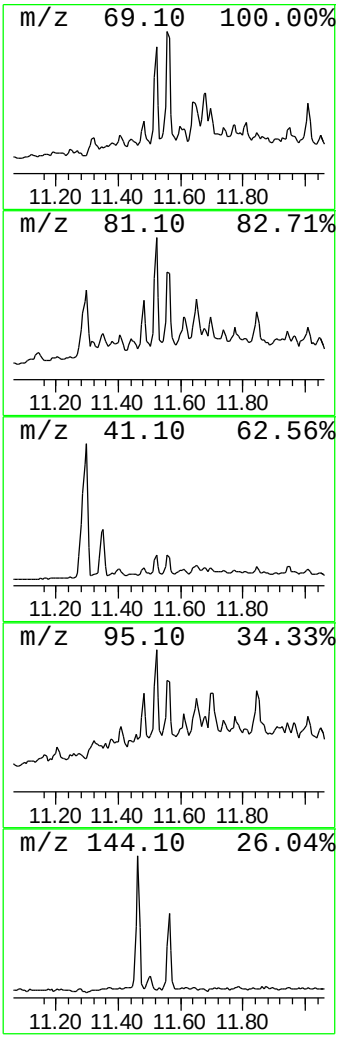
Peak Number 16 Squalene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.56	27.41 ng	1517290	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Squalene	410	C30H50	000111-02-4	59
2	2,6,10-Dodecatrien-1-ol, 3,7,11-...	222	C15H26O	004602-84-0	46
3	1,6,10,14-Hexadecatetraen-3-ol, ...	290	C20H34O	001113-21-9	38
4	Geranyl phenylacetate	272	C18H24O2	000102-22-7	38
5	trans-Geranylgeraniol	290	C20H34O	024034-73-9	38





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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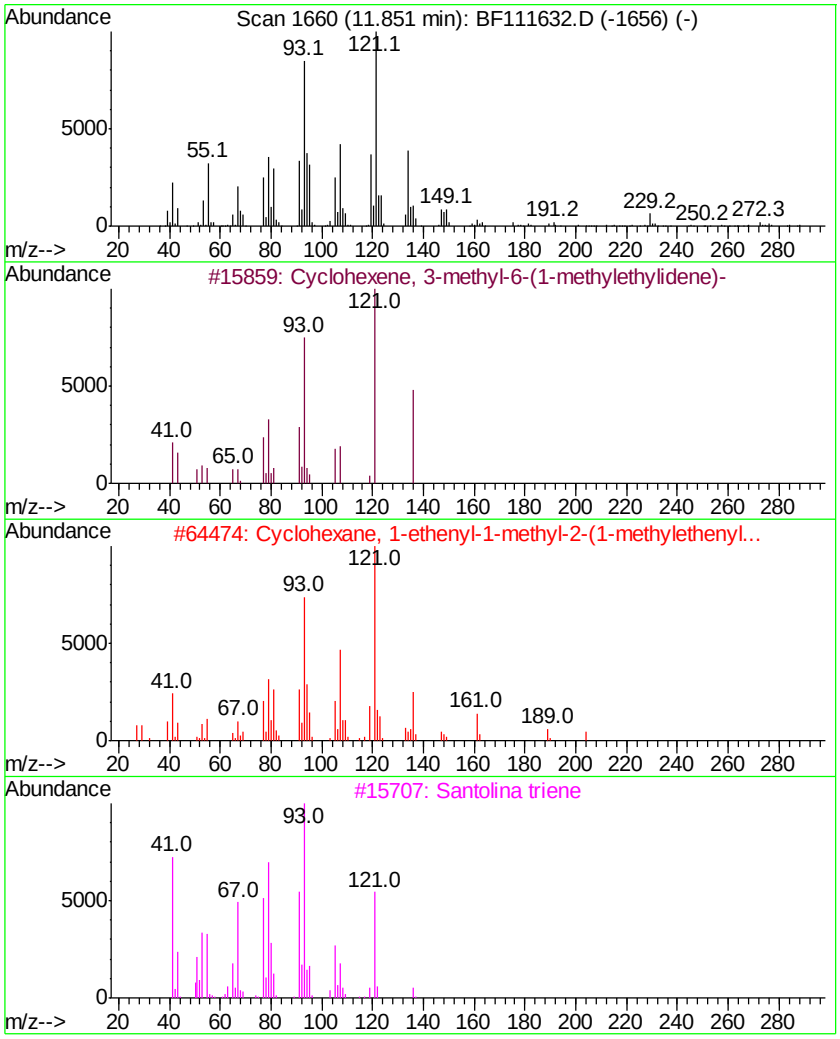
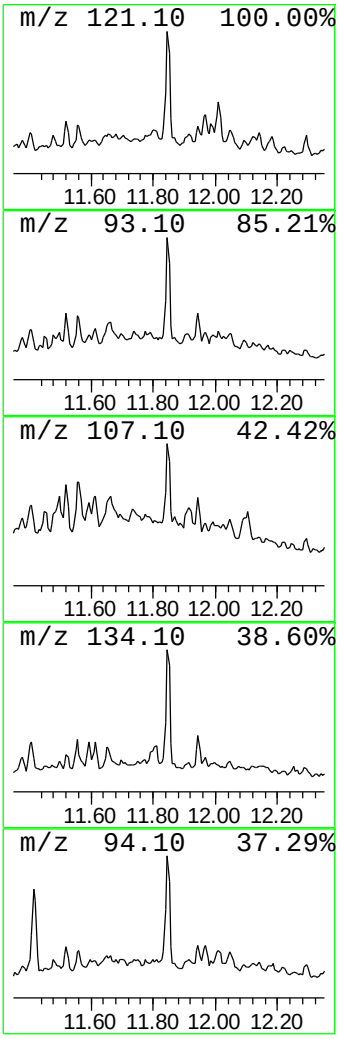
Peak Number 17 Cyclohexene, 3-methyl-6-(1-... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.85	22.81 ng	1262210	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 3-methyl-6-(1-methy...	136	C10H16	000586-63-0	64
2	Cyclohexane, 1-ethenyl-1-methyl-...	204	C15H24	003242-08-8	64
3	Santolina triene	136	C10H16	002153-66-4	53
4	1,3-Cyclohexadiene, 1-methyl-4-(...	136	C10H16	000099-86-5	46
5	1,3,6-Heptatriene, 2,5,6-trimethyl-	136	C10H16	042123-66-0	42





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\
Data File : BF111632.D
Acq On : 20 Dec 2018 11:54
Operator : JU/SJ
Sample : J6353-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P001-SS002-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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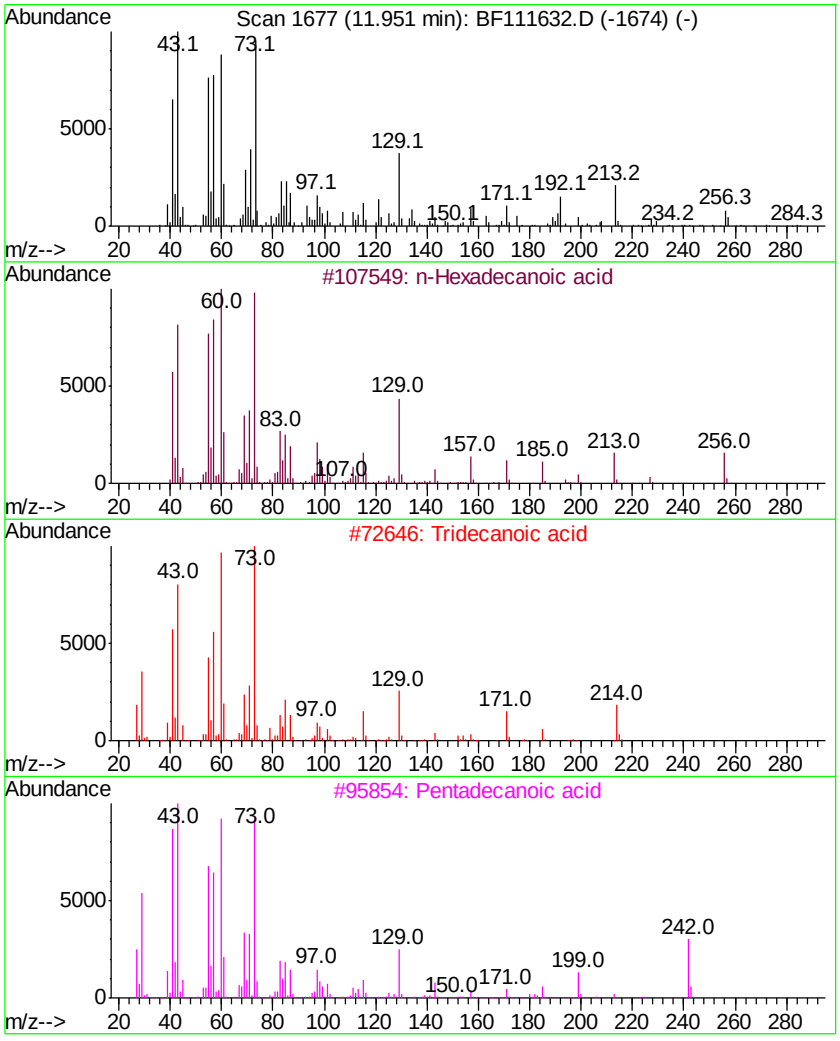
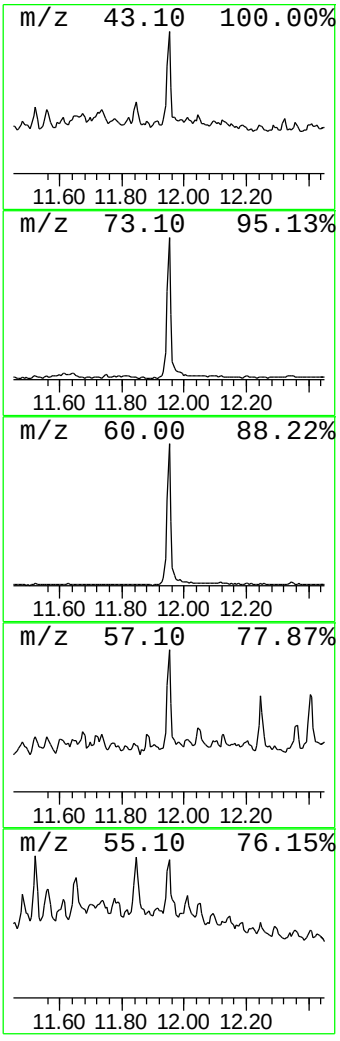
Peak Number 18 n-Hexadecanoic acid Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.95	14.35 ng	794154	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tridecanoic acid	214	C13H26O2	000638-53-9	90
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	81
4	Octadecanoic acid	284	C18H36O2	000057-11-4	81
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	74





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\
Data File : BF111632.D
Acq On : 20 Dec 2018 11:54
Operator : JU/SJ
Sample : J6353-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P001-SS002-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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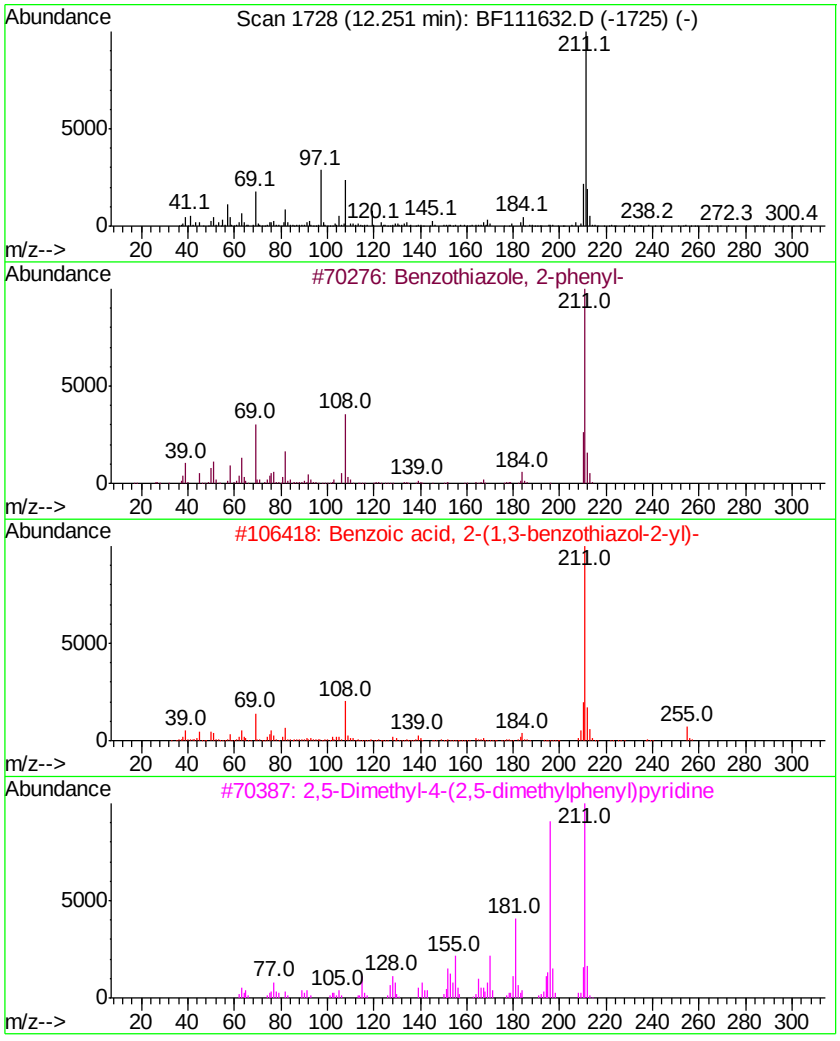
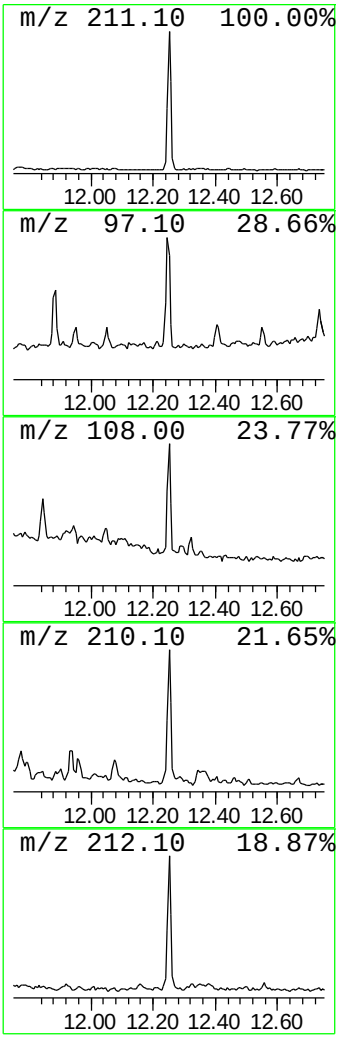
Peak Number 19 Benzothiazole, 2-phenyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.25	14.52 ng	803343	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzothiazole, 2-phenyl-	211	C13H9NS	000883-93-2	76
2	Benzoic acid, 2-(1,3-benzothiazo...	255	C14H9NO2S	1000350-42-1	72
3	2,5-Dimethyl-4-(2,5-dimethylphen...	211	C15H17N	039764-40-4	50
4	2-Fluoro-5H-dibenz[b,f]azepine	211	C14H10FN	024986-53-6	50
5	2-Fluoro-9-methylacridine	211	C14H10FN	022684-23-7	49





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\
Data File : BF111632.D
Acq On : 20 Dec 2018 11:54
Operator : JU/SJ
Sample : J6353-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P001-SS002-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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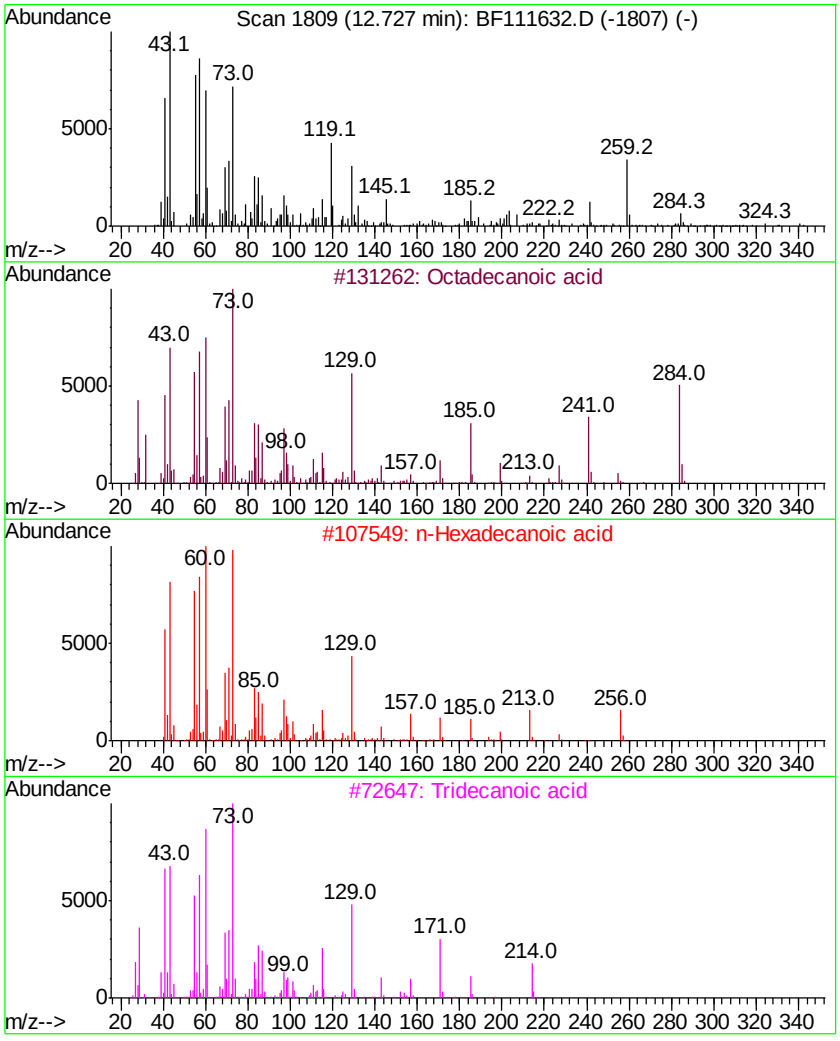
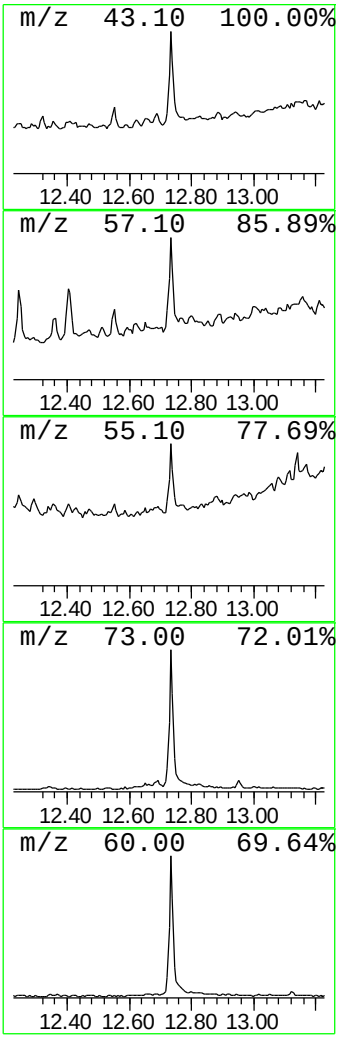
Peak Number 20 Octadecanoic acid Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.73	16.56 ng	916316	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	87
3	Tridecanoic acid	214	C13H26O2	000638-53-9	86
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	74
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	58





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF122018\
Data File : BF111632.D
Acq On : 20 Dec 2018 11:54
Operator : JU/SJ
Sample : J6353-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P001-SS002-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown6.67	6.67	88.9	ng	5441810	1	6.90	1223760	20.0
Benzene, 1-methyl...	6.98	22.6	ng	1381990	1	6.90	1223760	20.0
D-Limonene	7.02	103.2	ng	6314140	1	6.90	1223760	20.0
unknown9.49	9.49	23.2	ng	1662000	3	9.94	1430630	20.0
2,6,10-Dodecatrie...	9.55	24.1	ng	1722380	3	9.94	1430630	20.0
Bicyclo[3.1.1]hep...	9.78	44.0	ng	3147200	3	9.94	1430630	20.0
Benzene, 1-(1,5-d...	9.84	15.2	ng	1087550	3	9.94	1430630	20.0
1H-3a,7-Methanoaz...	10.02	23.6	ng	1686420	3	9.94	1430630	20.0
Naphthalene, 2,3,...	10.18	27.8	ng	1984740	3	9.94	1430630	20.0
Naphthalene, 1,6-...	10.85	16.0	ng	884004	4	11.42	1106910	20.0
Naphthalene, 1,2,...	11.09	16.1	ng	892817	4	11.42	1106910	20.0
2-Propanol, 1-chl...	11.30	173.4	ng	9594800	4	11.42	1106910	20.0
Bis(1-chloro-2-pr...	11.35	43.4	ng	2401110	4	11.42	1106910	20.0
6,10,14,18,22-Tet...	11.52	22.8	ng	1262950	4	11.42	1106910	20.0
Squalene	11.56	27.4	ng	1517290	4	11.42	1106910	20.0
Cyclohexene, 3-me...	11.85	22.8	ng	1262210	4	11.42	1106910	20.0
n-Hexadecanoic acid	11.95	14.4	ng	794154	4	11.42	1106910	20.0
Benzothiazole, 2-...	12.25	14.5	ng	803343	4	11.42	1106910	20.0
Octadecanoic acid	12.73	16.6	ng	916316	4	11.42	1106910	20.0