LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072418\
Data File : BF107626.D
Acq On : 24 Jul 2018 18:31
Operator : JU/SJ
Sample : J4110-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GS-RO-338-RO-147-RO-278

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-BF072018.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	5.601	551	555	575	rBV	1910016	2835112	19.39%	0.876%
2	6.484	703	705	713	rBV3	514890	743058	5.08%	0.230%
3	6.601	722	725	731	rBV	2082203	2596520	17.76%	0.802%
4	6.742	745	749	754	rVB	2772612	2804731	19.19%	0.867%
5	6.789	754	757	761	rBV	3505320	3063423	20.96%	0.947%
6	6.966	784	787	790	rBV2	2106468	1767933	12.09%	0.546%
7	7.125	811	814	818	rVB	2265928	2397697	16.40%	0.741%
8	7.231	826	832	834	rBV2	2110162	2380739	16.29%	0.736%
9	7.289	838	842	847	rVB2	1992806	2782108	19.03%	0.860%
10	7.336	847	850	852	rBV	1970062	2120372	14.50%	0.655%
11	7.495	872	877	880	rBV3	1555438	2073178	14.18%	0.641%
12	7.554	880	887	891	rVB2	7379068	10740367	73.47%	3.319%
13	7.607	891	896	899	rBV4	1176032	2066250	14.13%	0.639%
14	7.654	899	904	909	rVB3	1269346	1982367	13.56%	0.613%
15	7.736	915	918	920	rBV	1403603	1332050	9.11%	0.412%
16	7.783	924	926	931	rVB2	833763	958659	6.56%	0.296%
17	7.836	931	935	937	rBV3	841075	1216554	8.32%	0.376%
18	7.866	937	940	942	rBV	1145459	1036723	7.09%	0.320%
19	7.901	942	946	947	rBV2	904115	1111006	7.60%	0.343%
20	7.925	947	950	952	rVB2	2137537	2404350	16.45%	0.743%
21	7.954	952	955	957	rBV	2450684	2259201	15.45%	0.698%
22	7.989	957	961	963	rBV2	3638149	3505875	23.98%	1.084%
23	8.030	966	968	970	rVB	2388569	1734552	11.87%	0.536%
24	8.060	970	973	977	rVB3	1930216	2511098	17.18%	0.776%
25	8.119	979	983	985	rVB2	1898453	1871083	12.80%	0.578%
26	8.178	990	993	994	rBV	1040768	952477	6.52%	0.294%
27	8.230	997	1002	1004	rVV	7578314	9968683	68.19%	3.081%
28	8.254	1004	1006	1008	rVV	1410623	1334363	9.13%	0.412%
29	8.301	1011	1014	1017	rVB2	4939802	4667849	31.93%	1.443%
30	8.336	1017	1020	1022	rBV2	1741591	2171005	14.85%	0.671%
31	8.395	1027	1030	1033	rBV3	1252156	1778942	12.17%	0.550%
32	8.454	1038	1040	1046	rVB4	1571497	1610511	11.02%	0.498%
33	8.507	1046	1049	1051	rBV3	1021186	1311047	8.97%	0.405%
34	8.536	1051	1054	1059	rBV3	4091773	5666417	38.76%	1.751%

LSC Area Percent Report

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Acq On : 24 Jul 2018 18:31
Operator : JU/SJ
Sample : J4110-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GS-RO-338-RO-147-RO-278

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	8.583	1059	1062	1065	rBV2	2584912	2483793	16.99%	0.768%
36	8.619	1065	1068	1072	rVV2	2890457	2808650	19.21%	0.868%
37	8.666	1072	1076	1078	rVV	5352494	4920996	33.66%	1.521%
38	8.689	1078	1080	1083	rVB3	1770507	1439486	9.85%	0.445%
39	8.760	1089	1092	1093	rBV2	1328323	1198564	8.20%	0.370%
40	8.789	1093	1097	1099	rVV2	1497687	2266407	15.50%	0.700%
41	8.848	1099	1107	1110	rVV	8125867	14619050	100.00%	4.518%
42	8.889	1110	1114	1118	rVV3	1870133	4106466	28.09%	1.269%
43	8.930	1118	1121	1125	rVB2	2533164	2892273	19.78%	0.894%
44	8.995	1129	1132	1135	rBV3	1256333	1506742	10.31%	0.466%
45	9.030	1135	1138	1140	rBV2	1374161	1658610	11.35%	0.513%
46	9.119	1150	1153	1155	rBV	3151540	3025523	20.70%	0.935%
47	9.166	1159	1161	1164	rVB2	3198707	2980235	20.39%	0.921%
48	9.201	1164	1167	1170	rVB3	3710833	3790426	25.93%	1.171%
49	9.242	1170	1174	1176	rBV	3523883	3601590	24.64%	1.113%
50	9.272	1176	1179	1181	rBV	4163350	3720337	25.45%	1.150%
51	9.330	1186	1189	1193	rBV	2531826	3163575	21.64%	0.978%
52	9.419	1197	1204	1207	rBV	7480537	13707063	93.76%	4.236%
53	9.448	1207	1209	1213	rVV4	2288597	3657864	25.02%	1.131%
54	9.483	1213	1215	1217	rVB2	2117020	1613057	11.03%	0.499%
55	9.607	1231	1236	1239	rBV2	2233014	4023840	27.52%	1.244%
56	9.683	1243	1249	1251	rVV3	3955273	6506752	44.51%	2.011%
57	9.730	1251	1257	1259	rVV5	4860332	8720660	59.65%	2.695%
58	9.783	1263	1266	1269	rBV2	3036127	3432711	23.48%	1.061%
59	9.854	1276	1278	1279	rBV	922125	727979	4.98%	0.225%
60	9.883	1280	1283	1285	rVV2	2317251	2039203	13.95%	0.630%
61	9.948	1289	1294	1297	rVB	6212106	9863947	67.47%	3.049%
62	9.977	1297	1299	1301	rBV2	1738375	1599866	10.94%	0.494%
63	10.001	1301	1303	1306	rVV4	960928	967494	6.62%	0.299%
64	10.130	1320	1325	1328	rBV4	1655122	3023881	20.68%	0.935%
65	10.166	1328	1331	1334	rVV3	2682852	3563347	24.37%	1.101%
66	10.195	1334	1336	1338	rVV	2422810	2437449	16.67%	0.753%
67	10.224	1338	1341	1344	rVB3	3384047	3564514	24.38%	1.102%
68	10.260	1344	1347	1351	rBV3	3785895	5170044	35.37%	1.598%
69	10.295	1351	1353	1356	rVB	3088542	2636188	18.03%	0.815%
70	10.342	1357	1361	1363	rBV	2644733	3133238	21.43%	0.968%
71	10.371	1363	1366	1371	rVB2	2211125	2975350	20.35%	0.920%

LSC Area Percent Report

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Sample : J4110-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GS-RO-338-RO-147-RO-278

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	10.448	1372	1379	1381	rBV3	6253617	10991808	75.19%	3.397%
73	10.471	1381	1383	1385	rBV	999818	786123	5.38%	0.243%
74	10.660	1410	1415	1417	rBV	4201277	6042995	41.34%	1.868%
75	10.713	1421	1424	1426	rBV2	2041313	1863277	12.75%	0.576%
76	10.742	1426	1429	1432	rVV3	1694172	1671160	11.43%	0.516%
77	10.777	1432	1435	1439	rVB4	2853805	2903190	19.86%	0.897%
78	10.819	1439	1442	1444	rBV3	1419233	1749868	11.97%	0.541%
79	10.924	1455	1460	1469	rVB2	5702347	12484743	85.40%	3.859%
80	11.007	1472	1474	1477	rVB2	917964	737013	5.04%	0.228%
81	11.101	1488	1490	1494	rBV3	1352856	1990394	13.62%	0.615%
82	11.195	1504	1506	1510	rVB2	1692908	1525692	10.44%	0.472%
83	11.236	1510	1513	1515	rBV2	1618459	1832140	12.53%	0.566%
84	11.366	1531	1535	1537	rBV	5026415	6573426	44.96%	2.032%
85	11.395	1537	1540	1546	rVB2	4514600	5516094	37.73%	1.705%
86	11.601	1573	1575	1578	rBV2	1012525	1037168	7.09%	0.321%
87	11.630	1578	1580	1584	rVB2	1541667	1421060	9.72%	0.439%
88	11.666	1584	1586	1590	rBV3	1680485	1741887	11.92%	0.538%
89	11.736	1596	1598	1603	rVV3	1021969	1006361	6.88%	0.311%
90	11.789	1603	1607	1610	rVB	5367909	6113776	41.82%	1.890%
91	12.018	1643	1646	1647	rBV2	858328	813822	5.57%	0.252%
92	12.077	1653	1656	1658	rBV2	929589	936500	6.41%	0.289%
93	12.195	1672	1676	1678	rBV	5205904	5113265	34.98%	1.580%
94	12.342	1698	1701	1706	rVB5	1244827	2031832	13.90%	0.628%
95	12.577	1737	1741	1744	rBV	4764947	4642777	31.76%	1.435%
96	12.948	1800	1804	1806	rBV	3006699	2654514	18.16%	0.820%
97	13.089	1826	1828	1832	rVB	2206474	2093703	14.32%	0.647%
98	13.301	1861	1864	1867	rVB	1681710	1397485	9.56%	0.432%
99	14.154	2005	2009	2019	rBV	1378612	1441990	9.86%	0.446%
100	15.689	2265	2270	2276	rVB	767672	1143368	7.82%	0.353%

Sum of corrected areas: 323560901

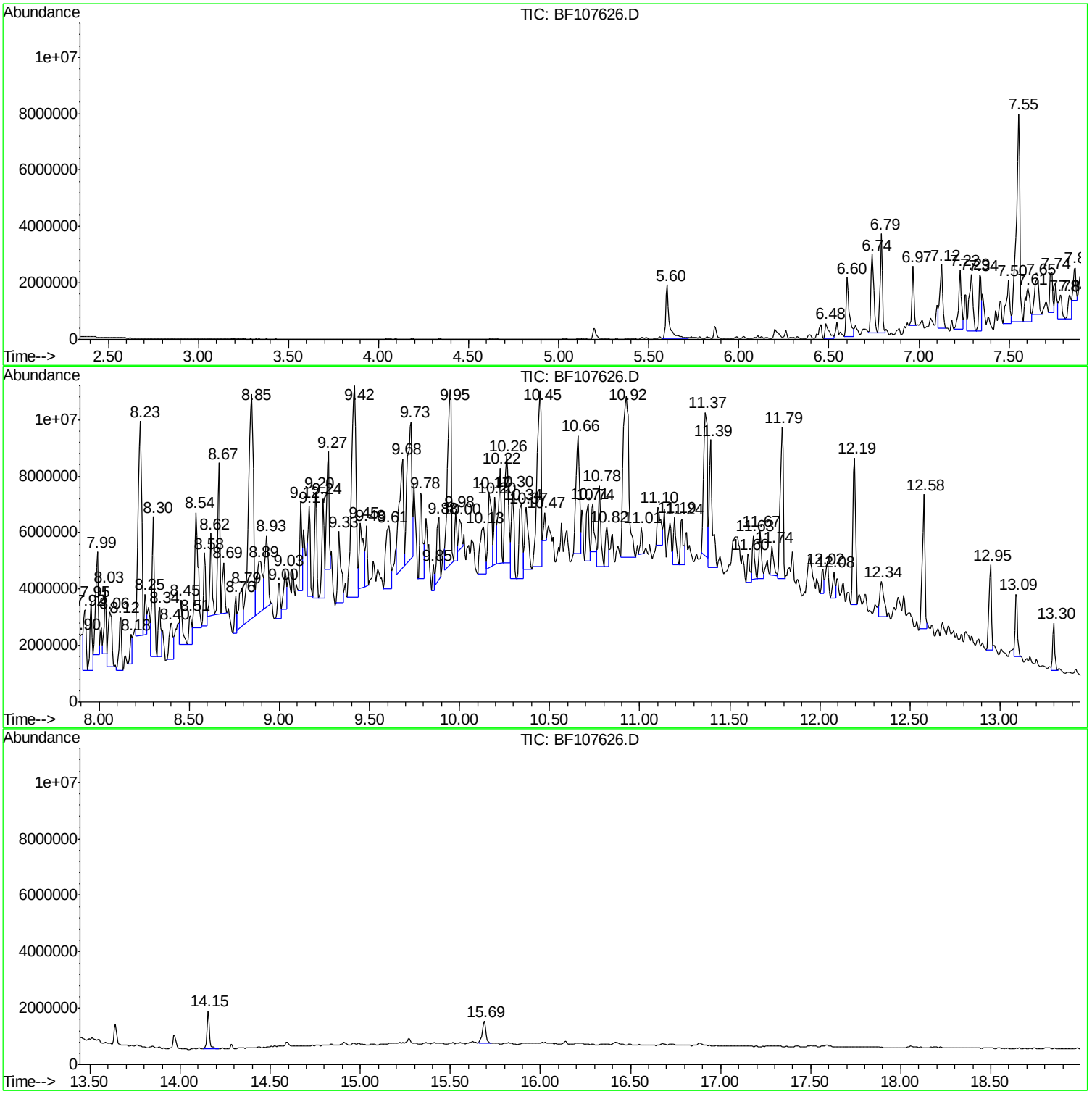
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072418\
Data File : BF107626.D
Acq On : 24 Jul 2018 18:31
Operator : JU/SJ
Sample : J4110-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
GS-RO-338-RO-147-RO-278

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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:\SVOASRV\HPCHEM1\BNA F\DATA\BF072418\
Data File : BF107626.D
Acq On : 24 Jul 2018 18:31
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Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GS-RO-338-RO-147-RO-278

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

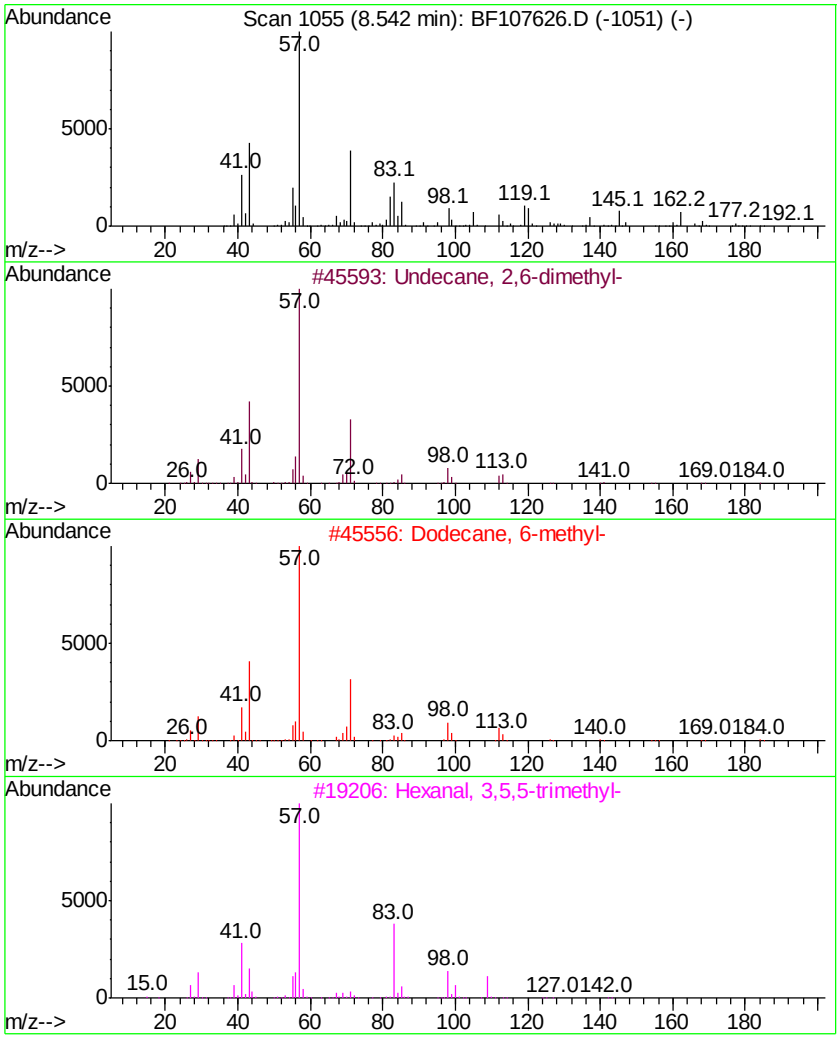
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

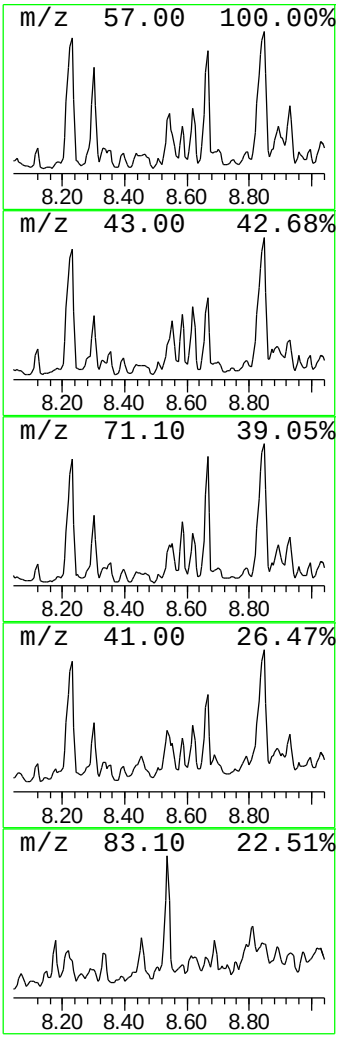
****

Peak Number 1 unknown8.54 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.54	84.93 ng	5666420	Naphthalene-d8	8.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	35
2	Dodecane, 6-methyl-	184	C13H28	006044-71-9	35
3	Hexanal, 3,5,5-trimethyl-	142	C9H18O	005435-64-3	35
4	2,2-Dimethylpropionic acid, cycl...	184	C11H20O2	029878-49-7	27
5	Undecane, 2,5-dimethyl-	184	C13H28	017301-22-3	15





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Operator : JU/SJ
Sample : J4110-01 2X
Misc :
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Instrument : BNA_F
ClientSampleId : GS-RO-338-RO-147-RO-278

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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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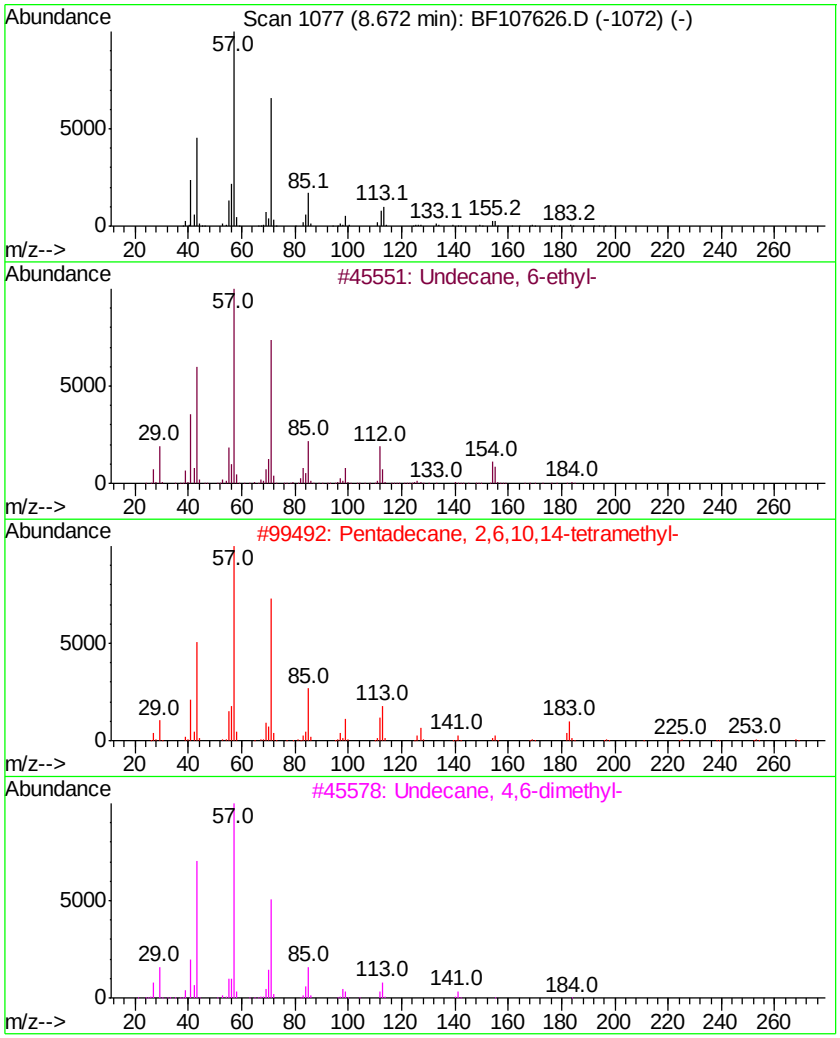
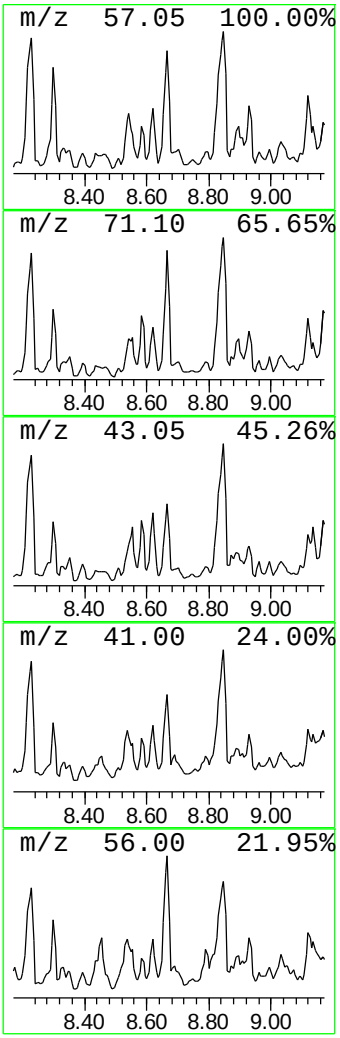
Peak Number 2 Undecane, 6-ethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.67	73.76 ng	4921000	Naphthalene-d8	8.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 6-ethyl-	184	C13H28	017312-60-6	72
2	Pentadecane, 2,6,10,14-tetramethyl-	268	C19H40	001921-70-6	72
3	Undecane, 4,6-dimethyl-	184	C13H28	017312-82-2	64
4	Dodecane, 4,6-dimethyl-	198	C14H30	061141-72-8	64
5	Nonane, 3-methyl-	142	C10H22	005911-04-6	59





Library Search Compound Report

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Instrument : BNA_F
ClientSampleId : GS-RO-338-RO-147-RO-278

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
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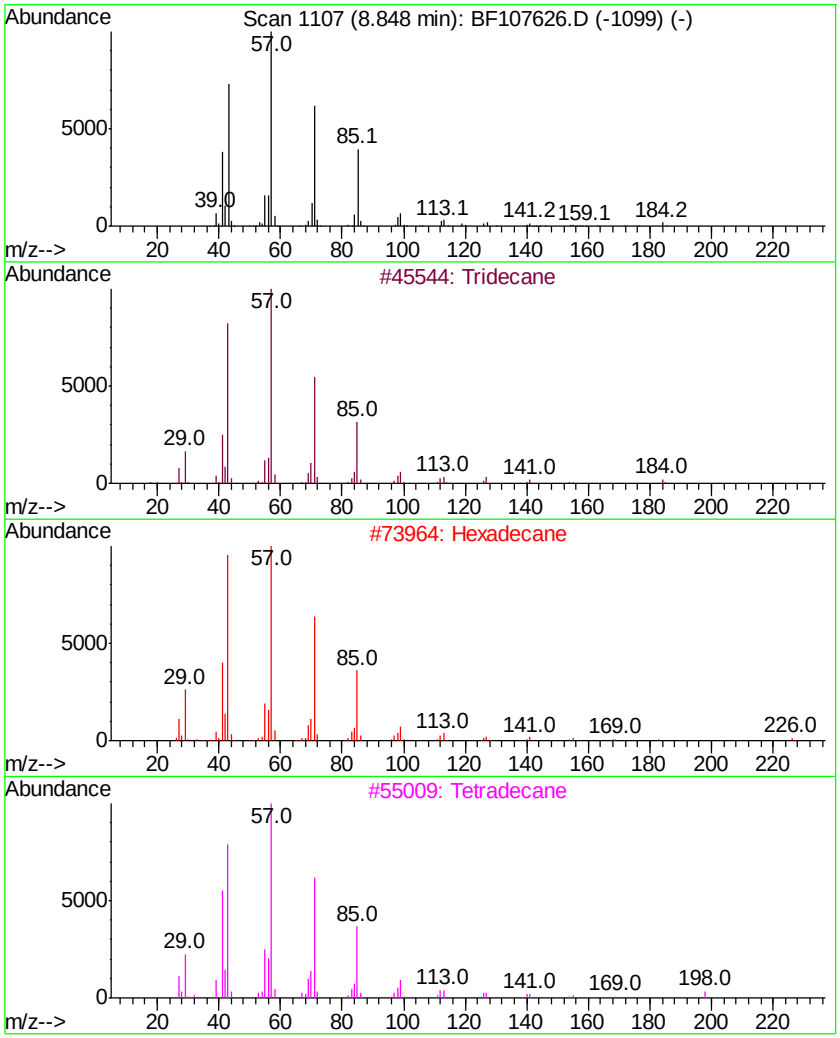
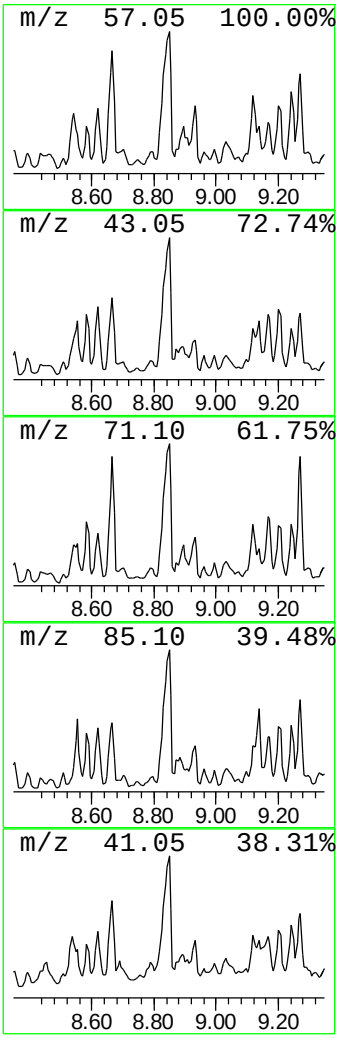
Peak Number 3 Tridecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.85	219.12 ng	14619100	Naphthalene-d8	8.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	92
2	Hexadecane	226	C16H34	000544-76-3	91
3	Tetradecane	198	C14H30	000629-59-4	90
4	Nonadecane	268	C19H40	000629-92-5	83
5	Nonane, 5-(2-methylpropyl)-	184	C13H28	062185-53-9	59





Library Search Compound Report

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Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GS-RO-338-RO-147-RO-278

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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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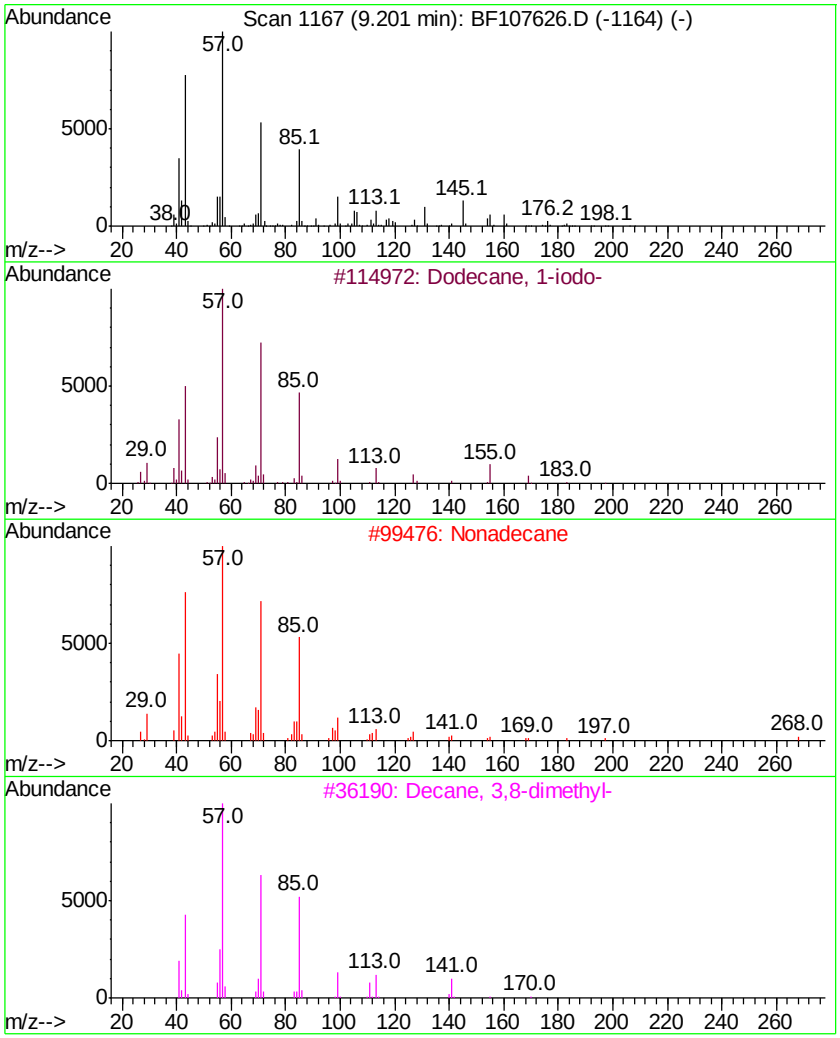
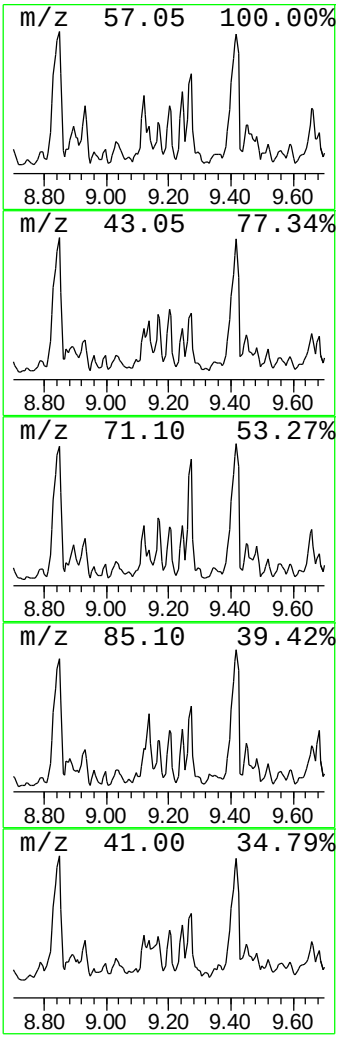
Peak Number 4 Dodecane, 1-iodo- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.20	78.36 ng	3790430	Acenaphthene-d10	10.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	58
2	Nonadecane	268	C19H40	000629-92-5	53
3	Decane, 3,8-dimethyl-	170	C12H26	017312-55-9	53
4	Undecane, 5-methyl-	170	C12H26	001632-70-8	50
5	3,5-Dimethyldodecane	198	C14H30	107770-99-0	49





Library Search Compound Report

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Sample : J4110-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GS-RO-338-RO-147-RO-278

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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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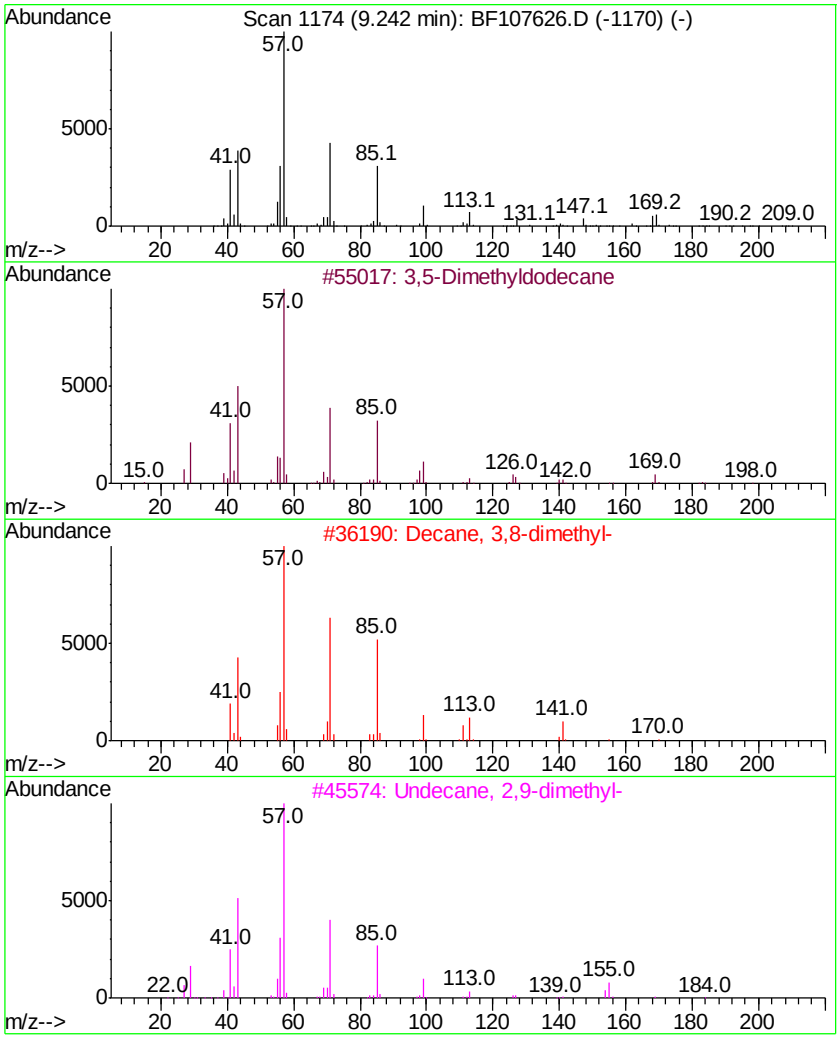
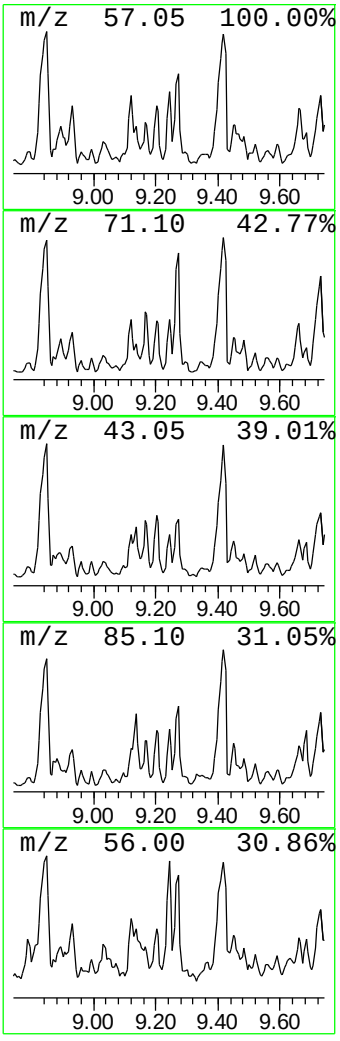
Peak Number 5 3,5-Dimethyldodecane Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.24	74.45 ng	3601590	Acenaphthene-d10	10.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,5-Dimethyldodecane	198	C14H30	107770-99-0	81
2	Decane, 3,8-dimethyl-	170	C12H26	017312-55-9	80
3	Undecane, 2,9-dimethyl-	184	C13H28	017301-26-7	72
4	Tridecane, 3-methyl-	198	C14H30	006418-41-3	72
5	Dodecane, 3-methyl-	184	C13H28	017312-57-1	72





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Acq On : 24 Jul 2018 18:31
Operator : JU/SJ
Sample : J4110-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GS-RO-338-RO-147-RO-278

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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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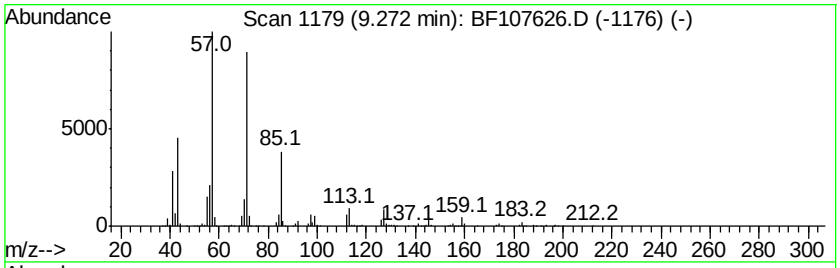
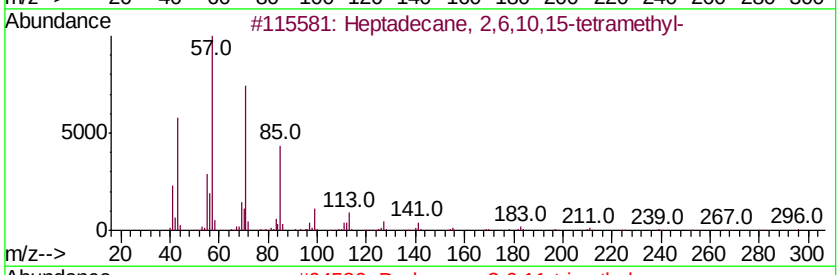
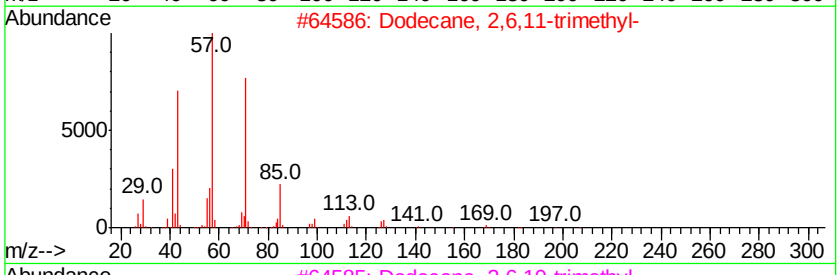
Peak Number 6 Heptadecane, 2,6,10,15-tetr... Concentration Rank 16

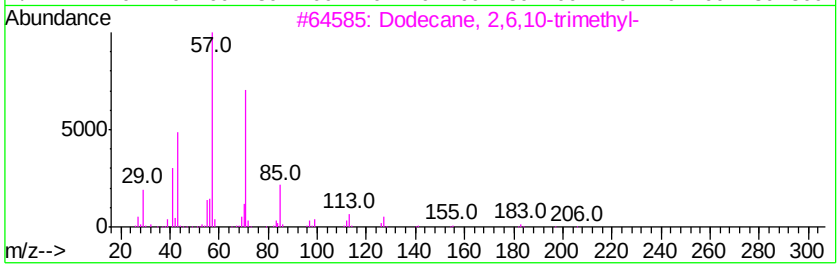
R.T.	EstConc	Area	Relative to ISTD	R.T.
9.27	76.91 ng	3720340	Acenaphthene-d10	10.02

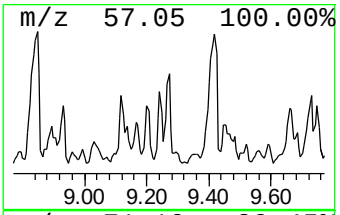
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	86
2	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	80
3	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	80
4	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	80
5	Nonane, 3-methyl-5-propyl-	184	C13H28	031081-18-2	72

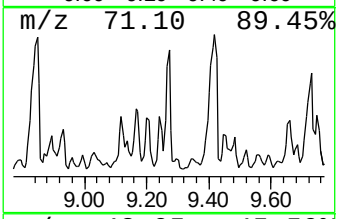


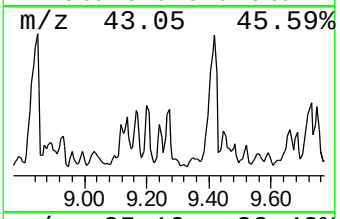


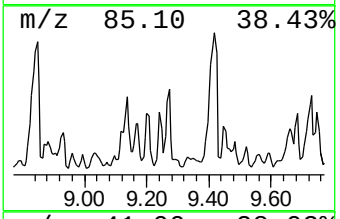


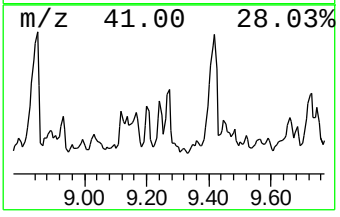












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Acq On : 24 Jul 2018 18:31
Operator : JU/SJ
Sample : J4110-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GS-RO-338-RO-147-RO-278

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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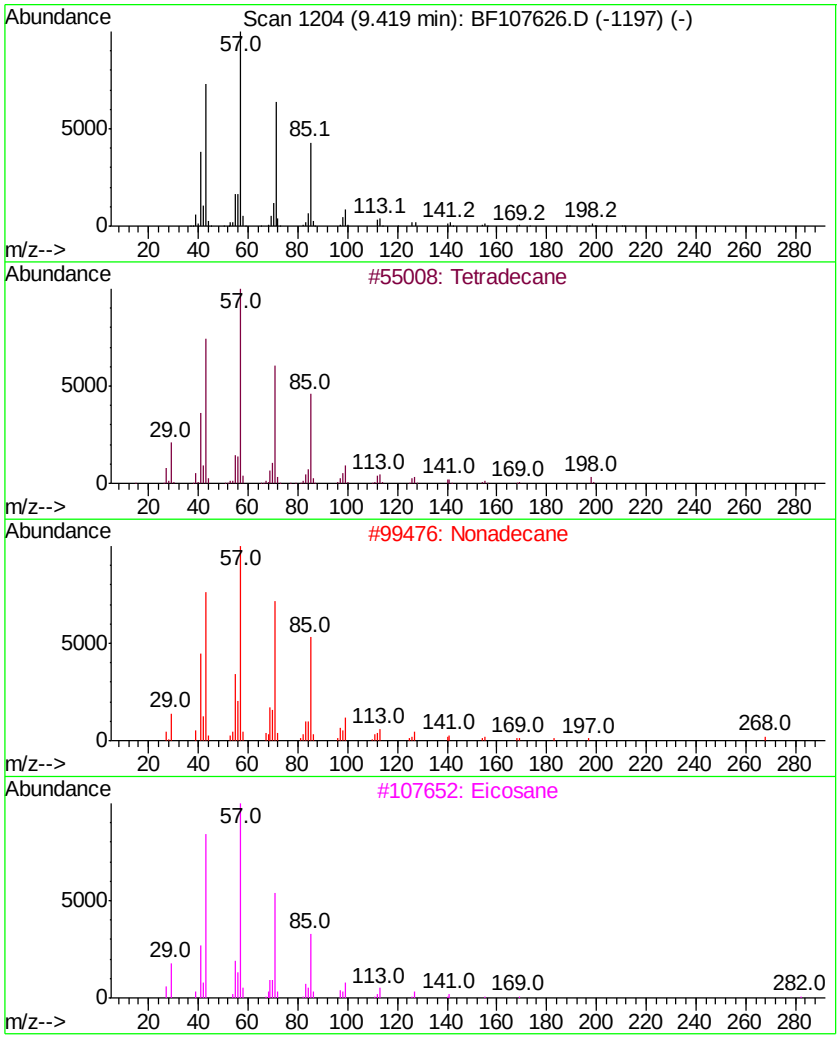
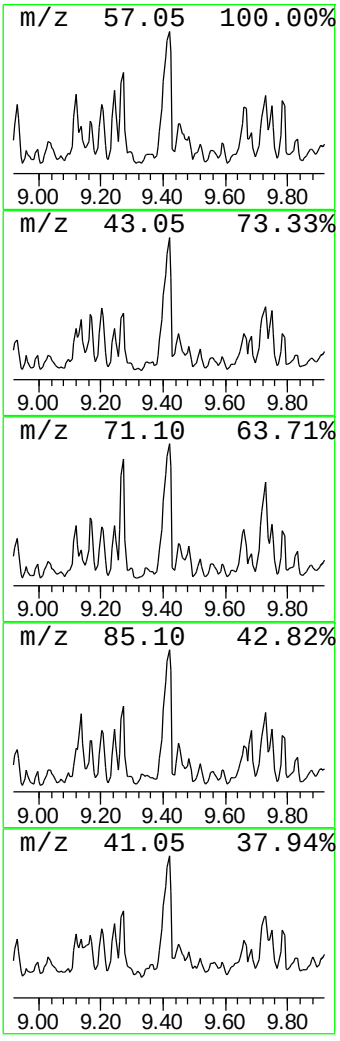
Peak Number 7 Tetradecane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.42	283.35 ng	13707100	Acenaphthene-d10	10.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane	198	C14H30	000629-59-4	91
2	Nonadecane	268	C19H40	000629-92-5	90
3	Eicosane	282	C20H42	000112-95-8	90
4	Pentadecane	212	C15H32	000629-62-9	83
5	10-Methylnonadecane	282	C20H42	056862-62-5	83





Library Search Compound Report

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Data File : BF107626.D
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Sample : J4110-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
GS-RO-338-RO-147-RO-278

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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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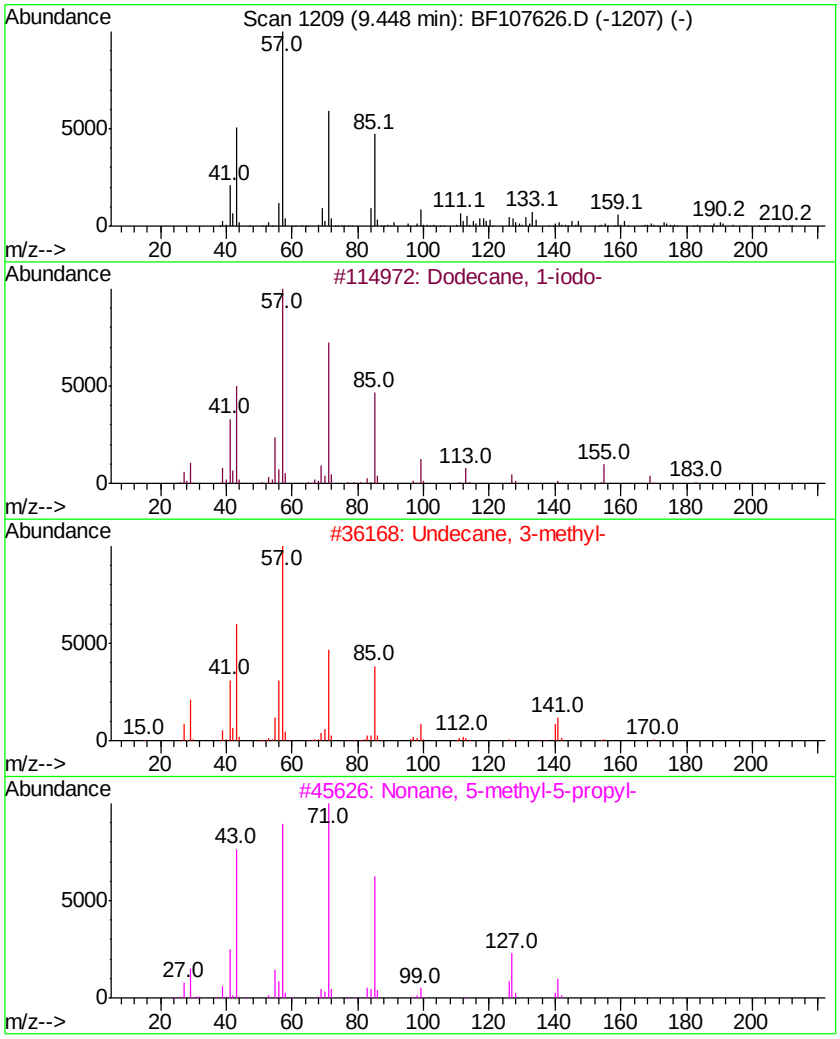
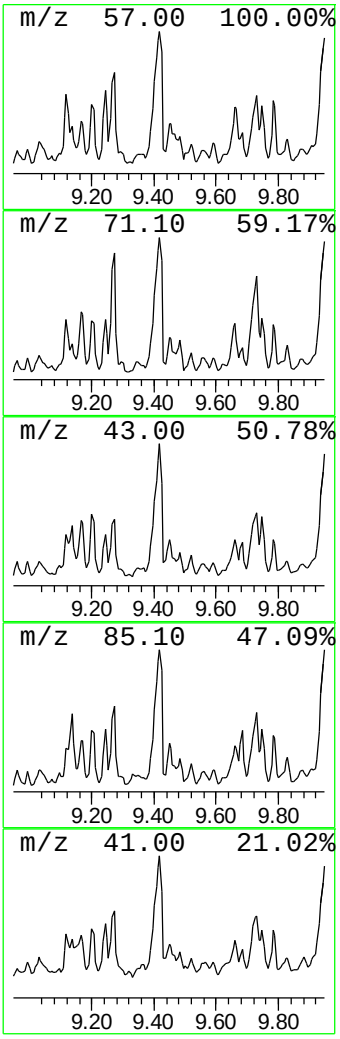
Peak Number 8 Undecane, 3-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.45	75.62 ng	3657860	Acenaphthene-d10	10.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	64
2	Undecane, 3-methyl-	170	C12H26	001002-43-3	58
3	Nonane, 5-methyl-5-propyl-	184	C13H28	017312-75-3	53
4	3-Ethyl-3-methylheptane	142	C10H22	017302-01-1	53
5	Pentadecane	212	C15H32	000629-62-9	53





Library Search Compound Report

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Operator : JU/SJ
Sample : J4110-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GS-RO-338-RO-147-RO-278

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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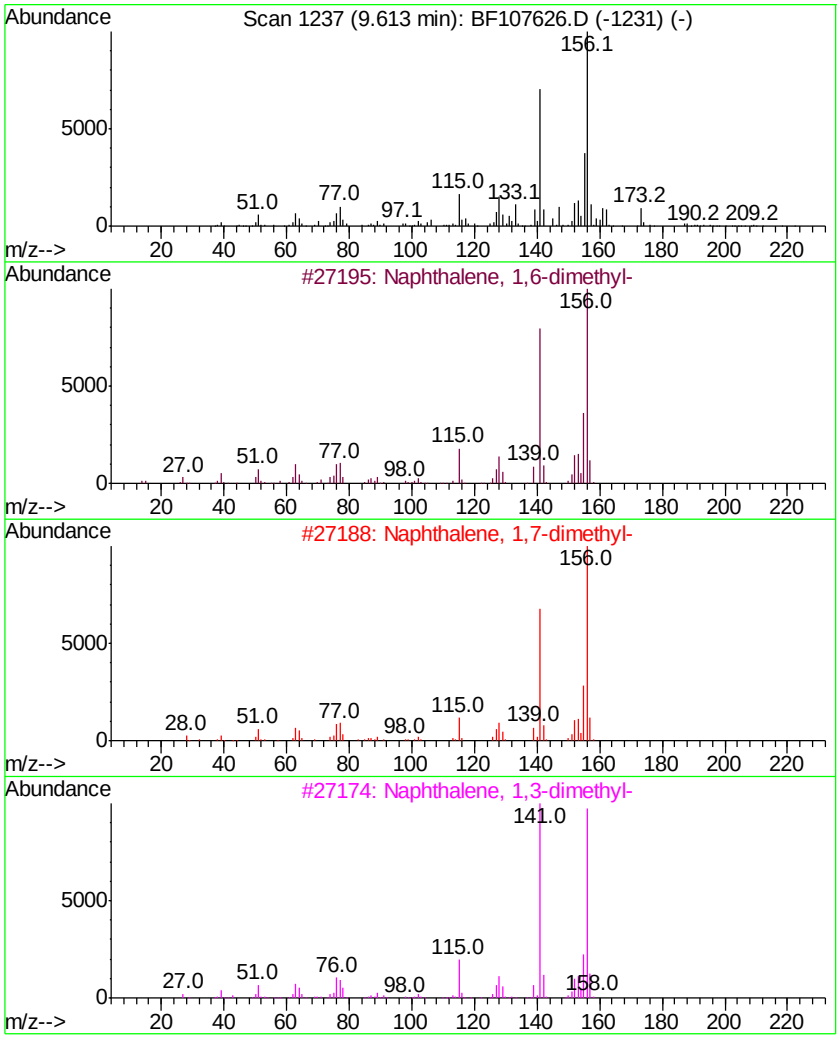
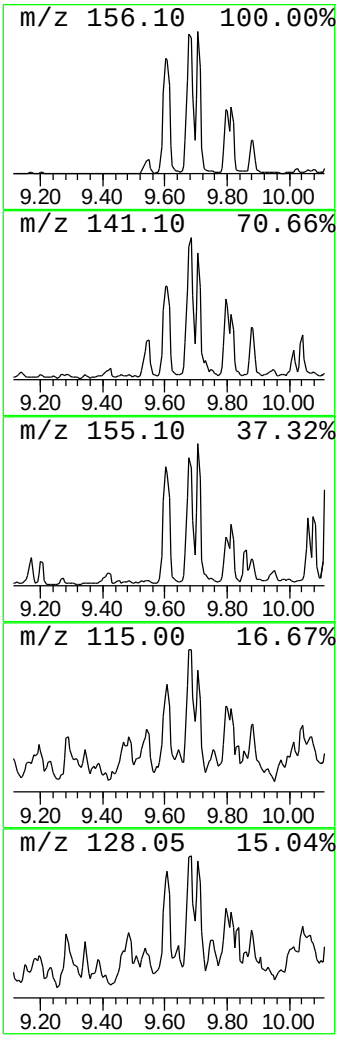
Peak Number 9 Naphthalene, 1,6-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.61	83.18 ng	4023840	Acenaphthene-d10	10.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
4	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96
5	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96





Library Search Compound Report

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Acq On : 24 Jul 2018 18:31
Operator : JU/SJ
Sample : J4110-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GS-RO-338-RO-147-RO-278

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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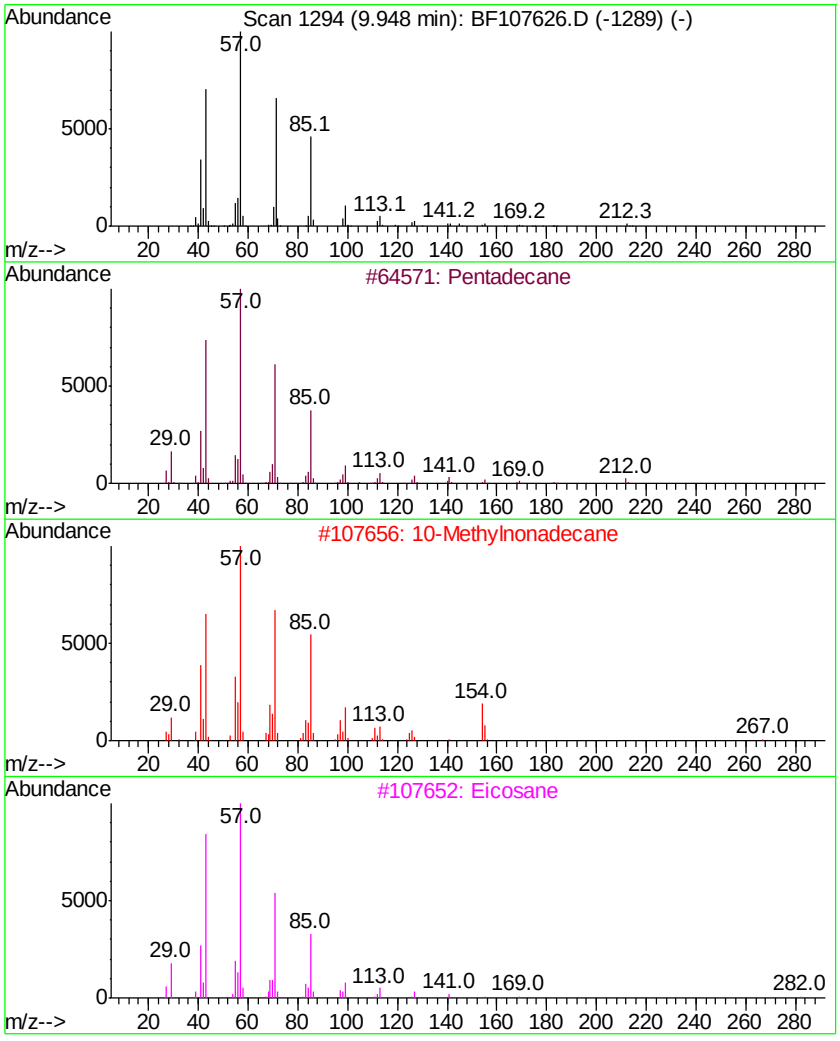
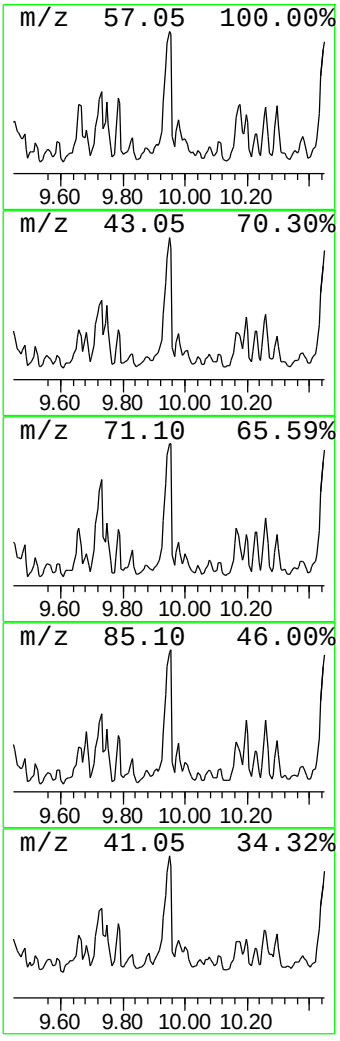
Peak Number 10 Pentadecane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.95	203.91 ng	9863950	Acenaphthene-d10	10.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane	212	C15H32	000629-62-9	91
2	10-Methylnonadecane	282	C20H42	056862-62-5	83
3	Eicosane	282	C20H42	000112-95-8	80
4	Hexadecane	226	C16H34	000544-76-3	80
5	Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	72





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Sample : J4110-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GS-RO-338-RO-147-RO-278

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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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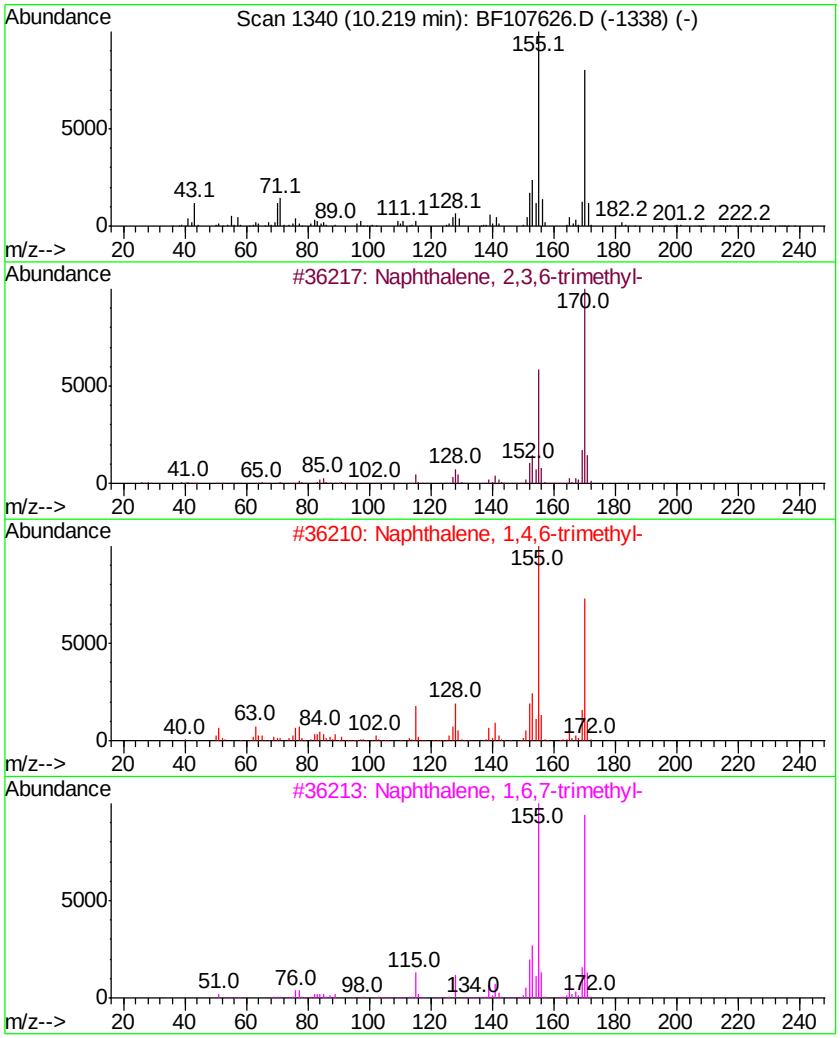
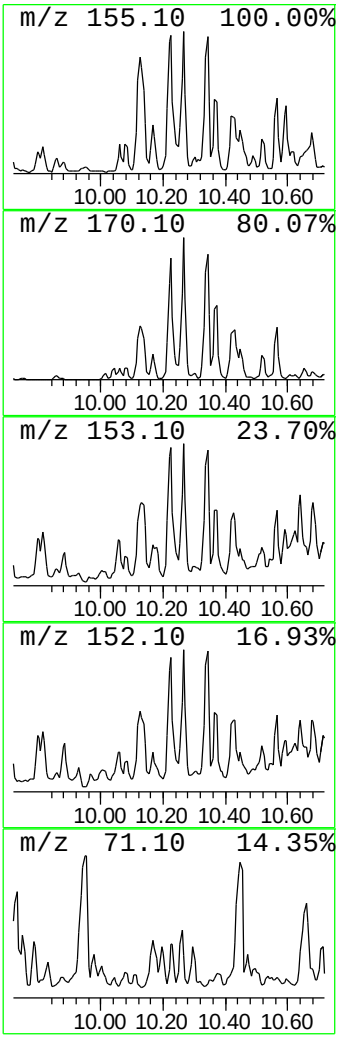
Peak Number 11 Naphthalene, 2,3,6-trimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	73.69 ng	3564510	Acenaphthene-d10	10.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	96
2	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	93
3	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	93
4	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	89
5	Azulene, 4,6,8-trimethyl-	170	C13H14	000941-81-1	76





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Operator : JU/SJ
Sample : J4110-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GS-RO-338-RO-147-RO-278

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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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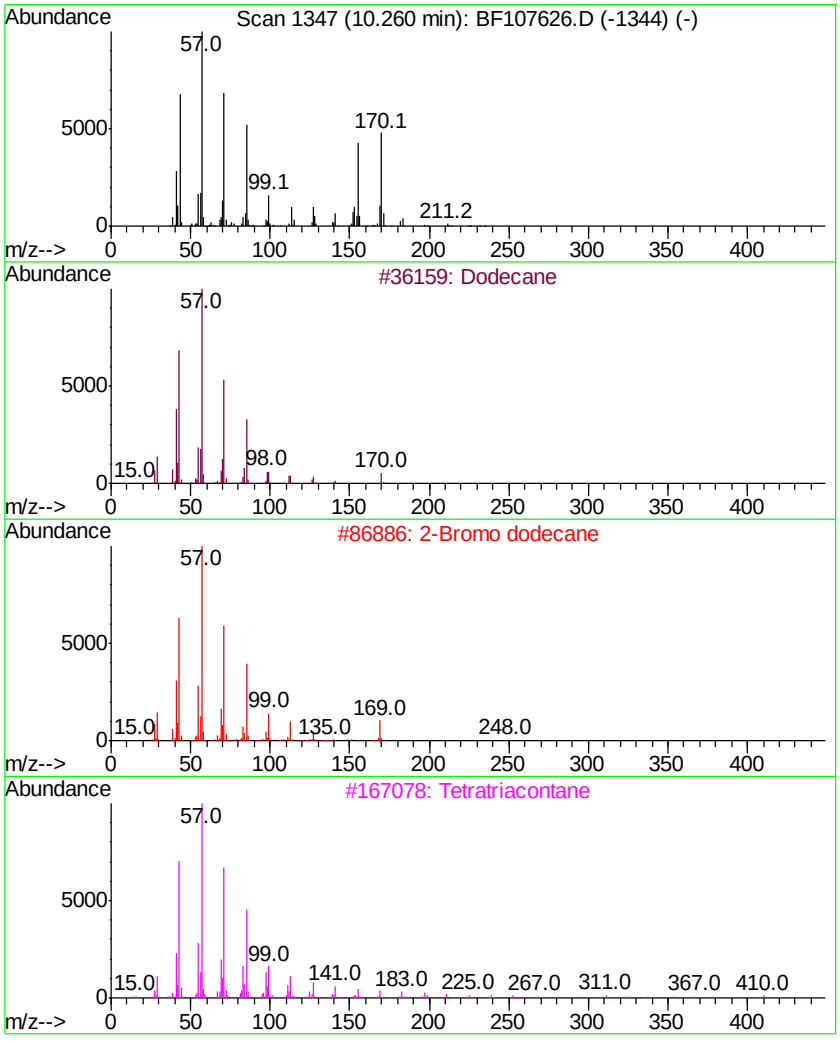
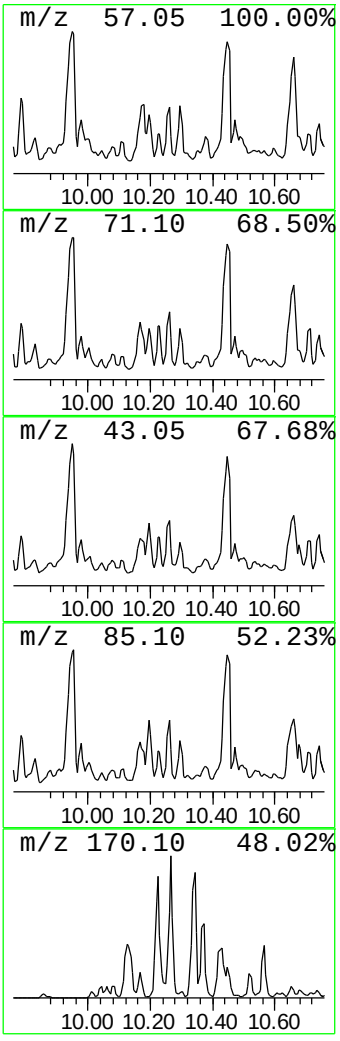
Peak Number 12 Dodecane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.26	106.88 ng	5170040	Acenaphthene-d10	10.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane	170	C12H26	000112-40-3	70
2	2-Bromo dodecane	248	C12H25Br	013187-99-0	49
3	Tetratriacontane	479	C34H70	014167-59-0	46
4	Tetracosane	338	C24H50	000646-31-1	43
5	Undecane	156	C11H24	001120-21-4	43





Library Search Compound Report

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Acq On : 24 Jul 2018 18:31
Operator : JU/SJ
Sample : J4110-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GS-RO-338-RO-147-RO-278

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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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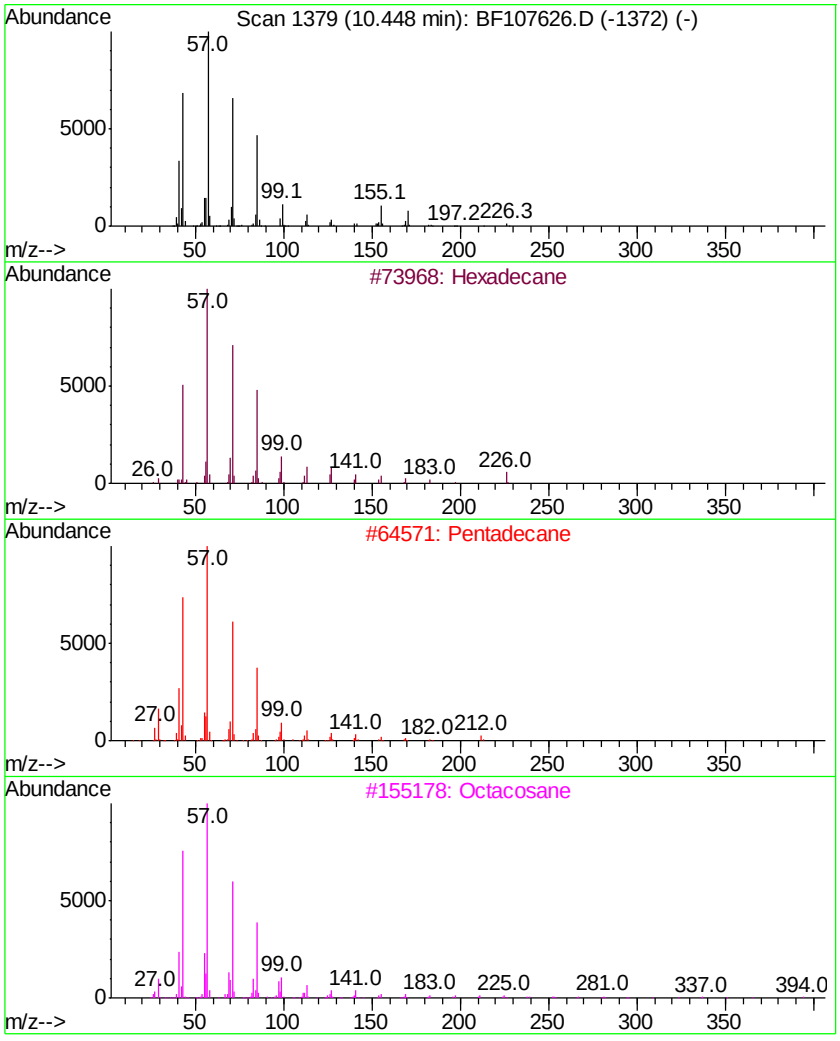
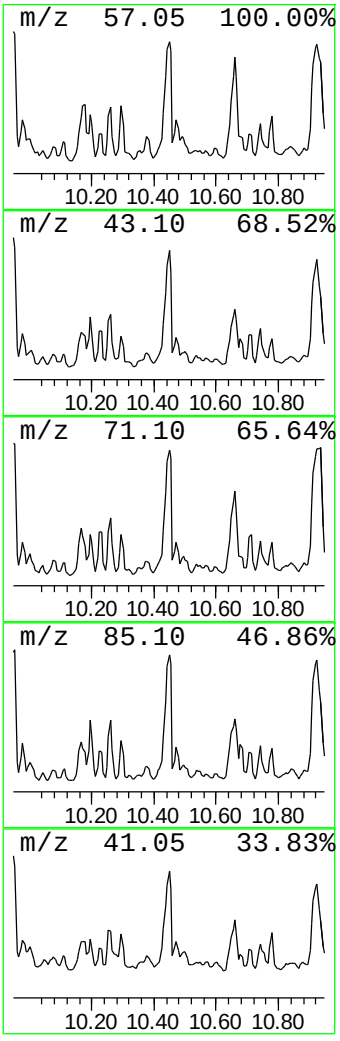
Peak Number 13 Octacosane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.45	227.22 ng	10991800	Acenaphthene-d10	10.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	87
2	Pentadecane	212	C15H32	000629-62-9	86
3	Octacosane	394	C28H58	000630-02-4	86
4	Tridecane, 2-methyl-	198	C14H30	001560-96-9	83
5	Undecane	156	C11H24	001120-21-4	80





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Operator : JU/SJ
Sample : J4110-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GS-RO-338-RO-147-RO-278

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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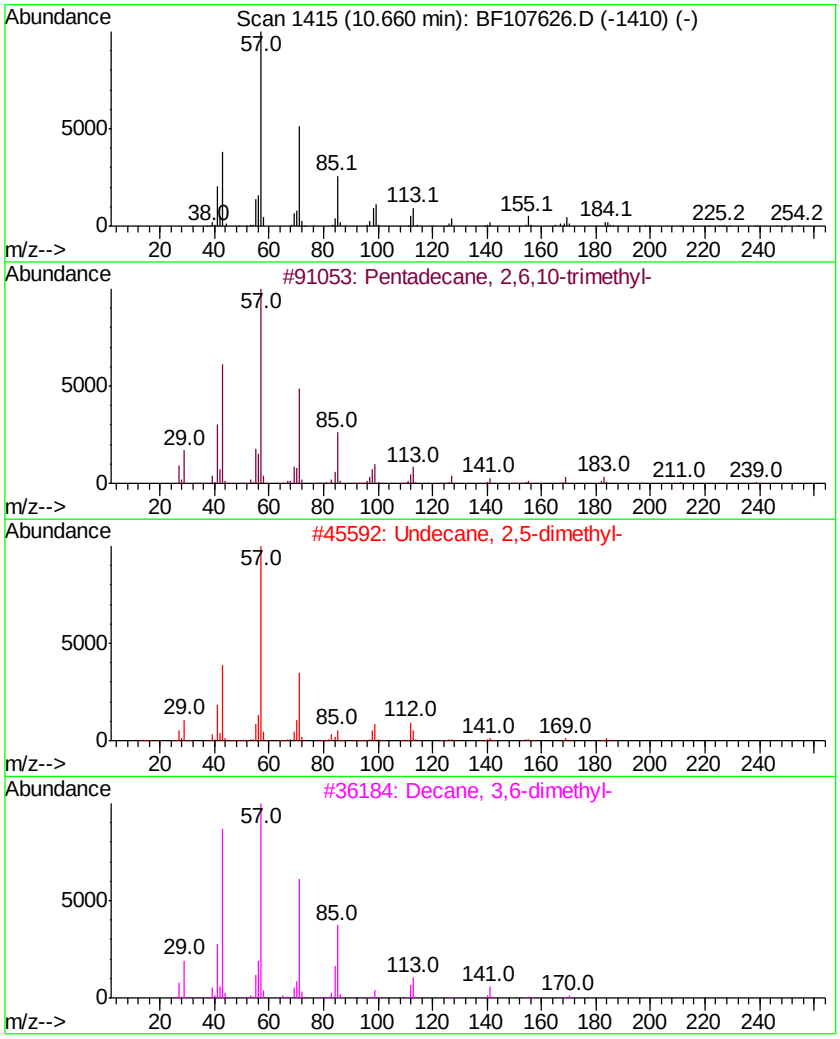
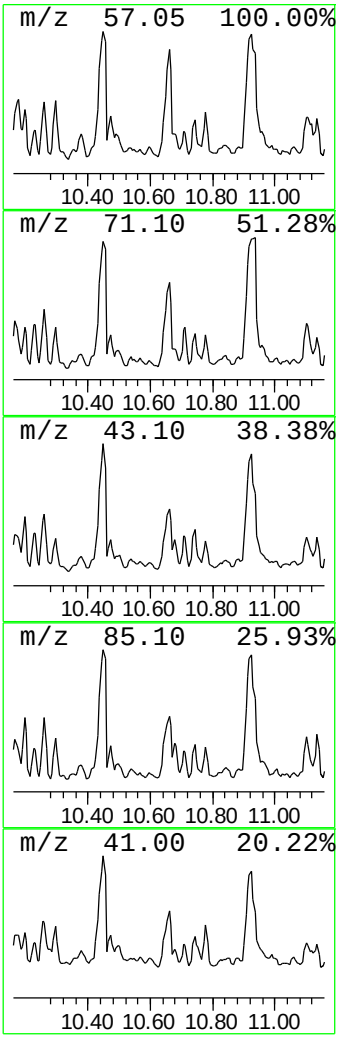
Peak Number 14 Pentadecane, 2,6,10-trimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.66	124.92 ng	6043000	Acenaphthene-d10	10.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane, 2,6,10-trimethyl-	254	C18H38	003892-00-0	86
2	Undecane, 2,5-dimethyl-	184	C13H28	017301-22-3	81
3	Decane, 3,6-dimethyl-	170	C12H26	017312-53-7	76
4	Dodecane, 2-methyl-8-propyl-	226	C16H34	055045-07-3	64
5	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	64





Library Search Compound Report

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Sample : J4110-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GS-RO-338-RO-147-RO-278

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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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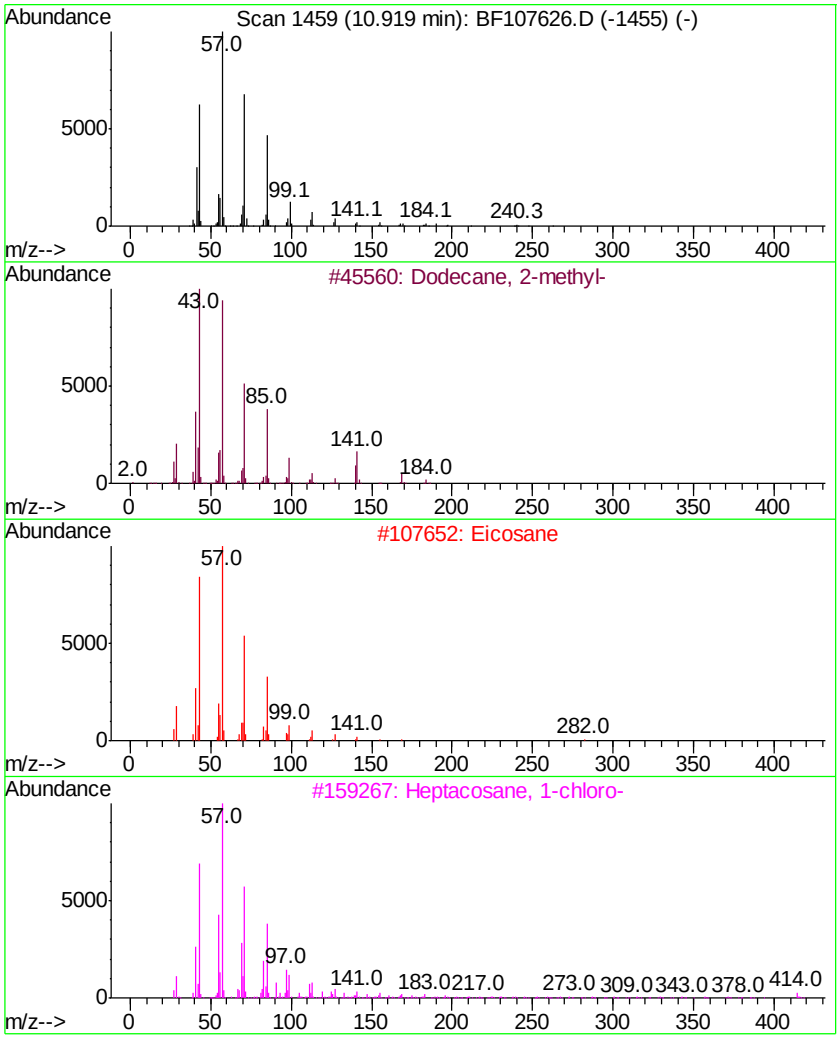
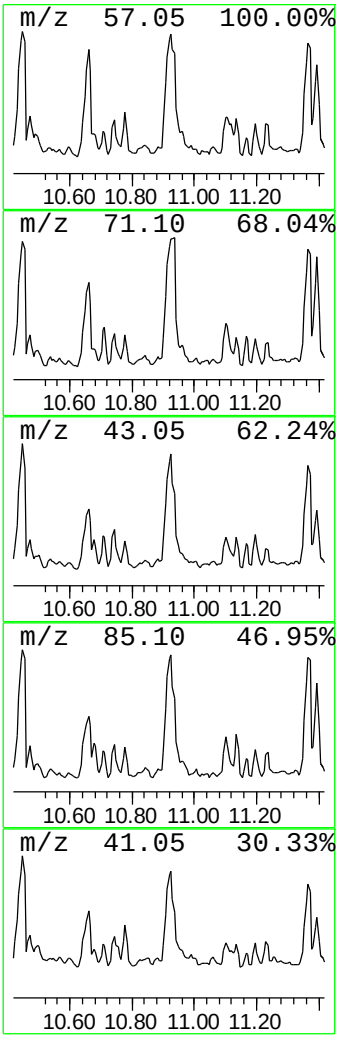
Peak Number 15 Dodecane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.92	240.75 ng	12484700	Phenanthrene-d10	11.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2-methyl-	184	C13H28	001560-97-0	91
2	Eicosane	282	C20H42	000112-95-8	91
3	Heptacosane, 1-chloro-	414	C27H55Cl	062016-79-9	90
4	Octacosane	394	C28H58	000630-02-4	90
5	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	90





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Data File : BF107626.D
Acq On : 24 Jul 2018 18:31
Operator : JU/SJ
Sample : J4110-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GS-RO-338-RO-147-RO-278

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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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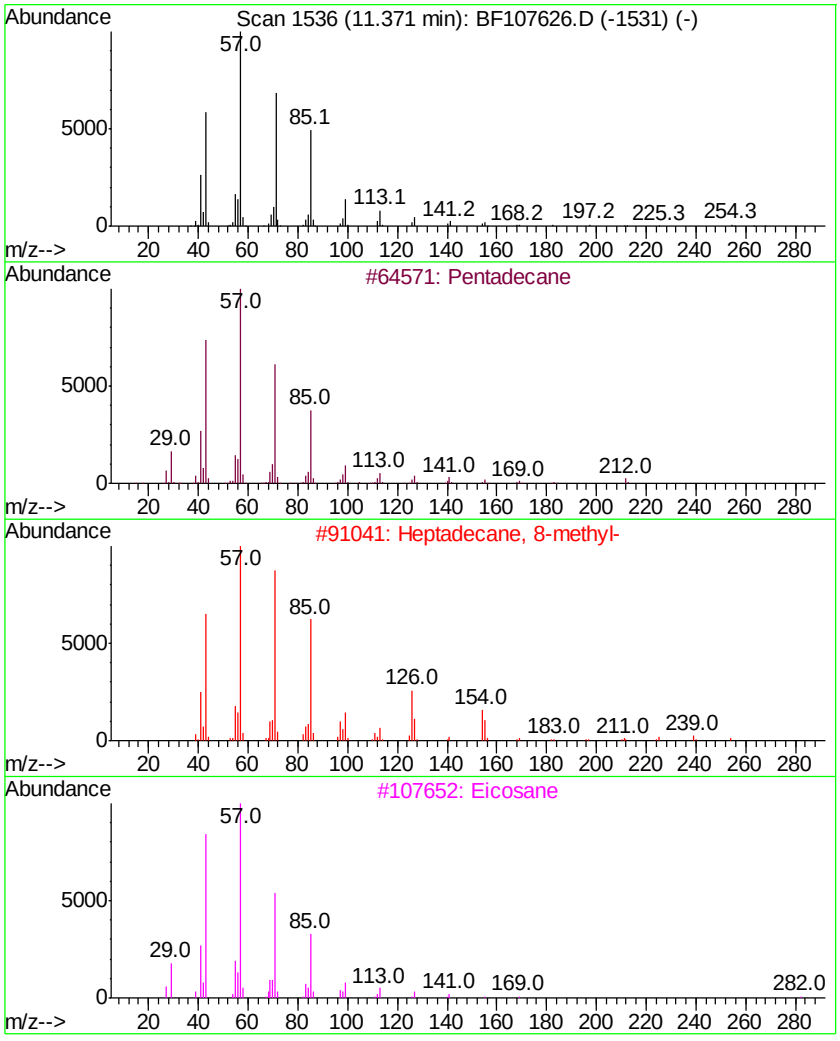
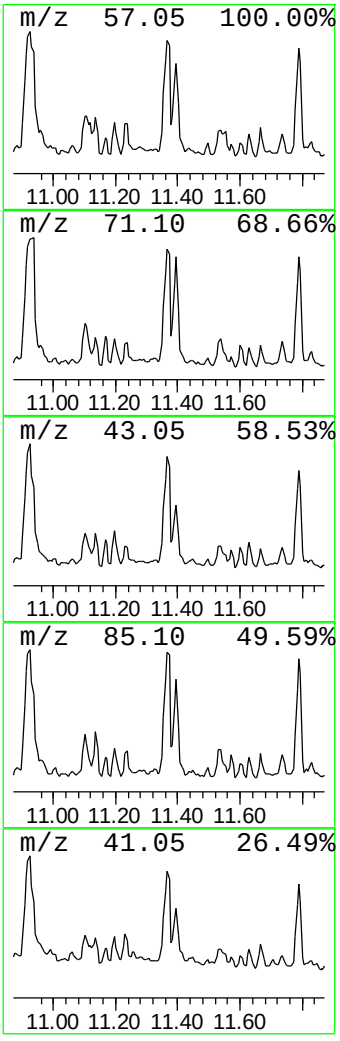
Peak Number 16 Heptadecane, 8-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.37	126.76 ng	6573430	Phenanthrene-d10	11.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane	212	C15H32	000629-62-9	91
2	Heptadecane, 8-methyl-	254	C18H38	013287-23-5	90
3	Eicosane	282	C20H42	000112-95-8	90
4	Heptacosane, 1-chloro-	414	C27H55Cl	062016-79-9	83
5	Heneicosane	296	C21H44	000629-94-7	83





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Acq On : 24 Jul 2018 18:31
Operator : JU/SJ
Sample : J4110-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GS-RO-338-RO-147-RO-278

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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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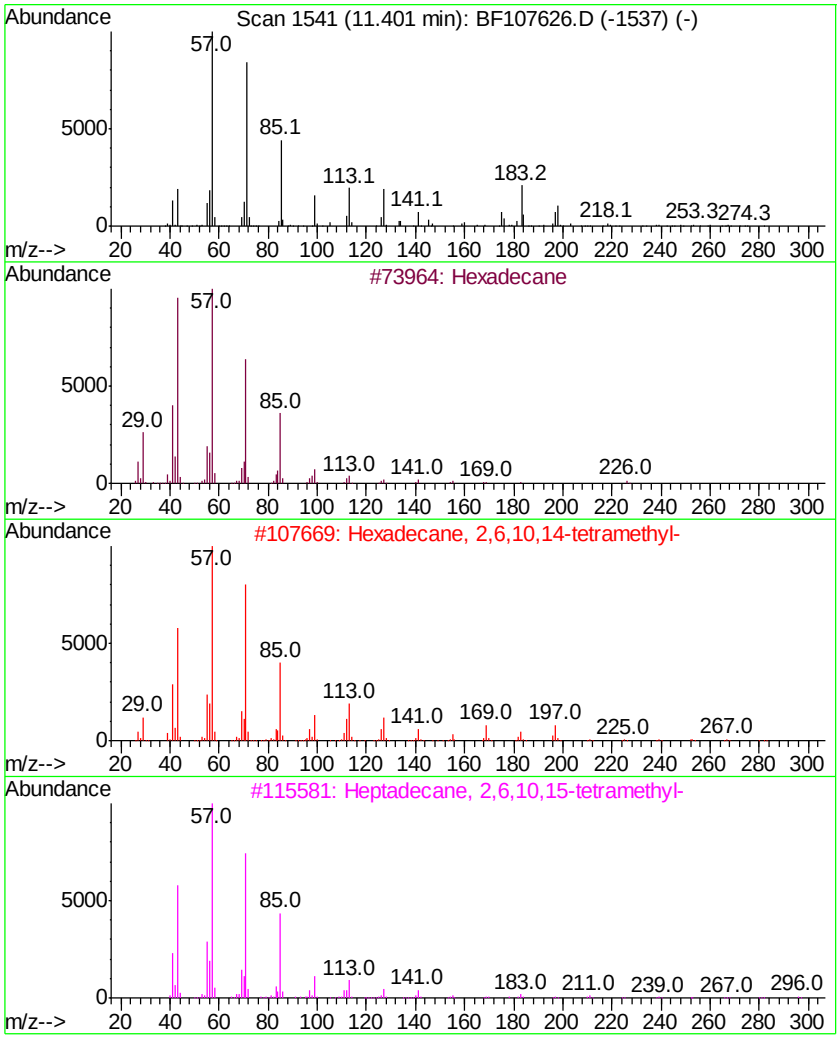
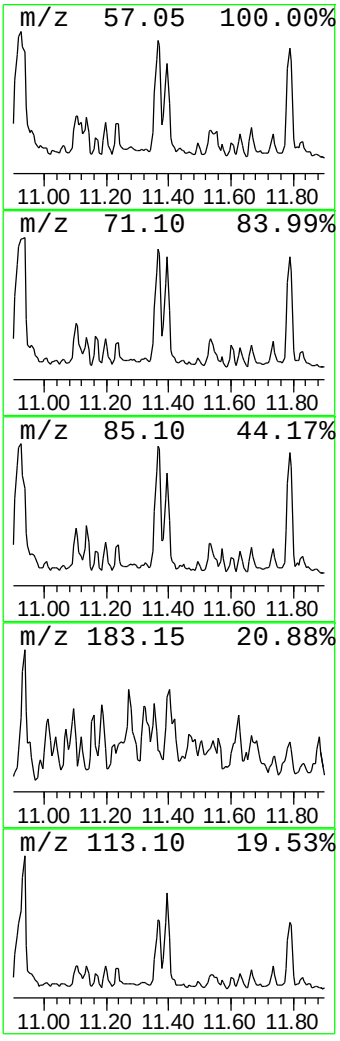
Peak Number 17 Hexadecane, 2,6,10,14-tetra... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.40	106.37 ng	5516090	Phenanthrene-d10	11.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	87
2	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	83
3	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	78
4	2-Bromo dodecane	248	C12H25Br	013187-99-0	78
5	Undecane, 6-ethyl-	184	C13H28	017312-60-6	59





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Data File : BF107626.D
Acq On : 24 Jul 2018 18:31
Operator : JU/SJ
Sample : J4110-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GS-RO-338-RO-147-RO-278

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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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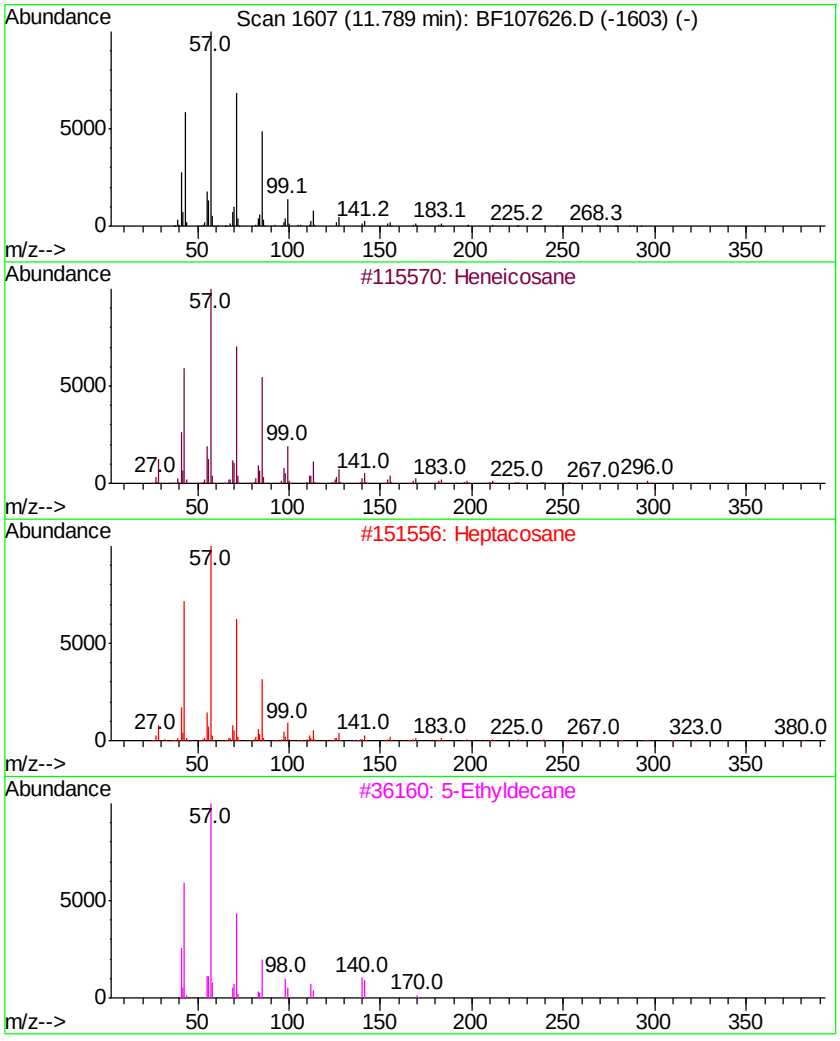
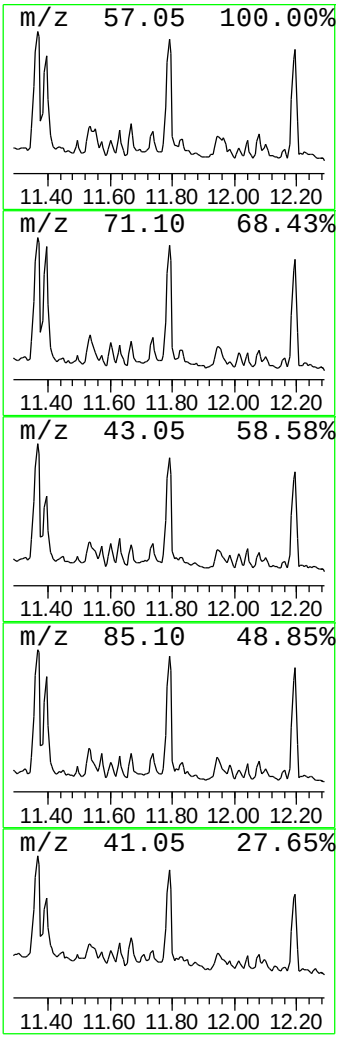
Peak Number 18 Heneicosane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.79	117.89 ng	6113780	Phenanthrene-d10	11.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	83
2	Heptacosane	380	C27H56	000593-49-7	80
3	5-Ethyldecane	170	C12H26	017302-36-2	80
4	Pentadecane	212	C15H32	000629-62-9	80
5	Undecane, 5,7-dimethyl-	184	C13H28	017312-83-3	80





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072418\
Data File : BF107626.D
Acq On : 24 Jul 2018 18:31
Operator : JU/SJ
Sample : J4110-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GS-RO-338-RO-147-RO-278

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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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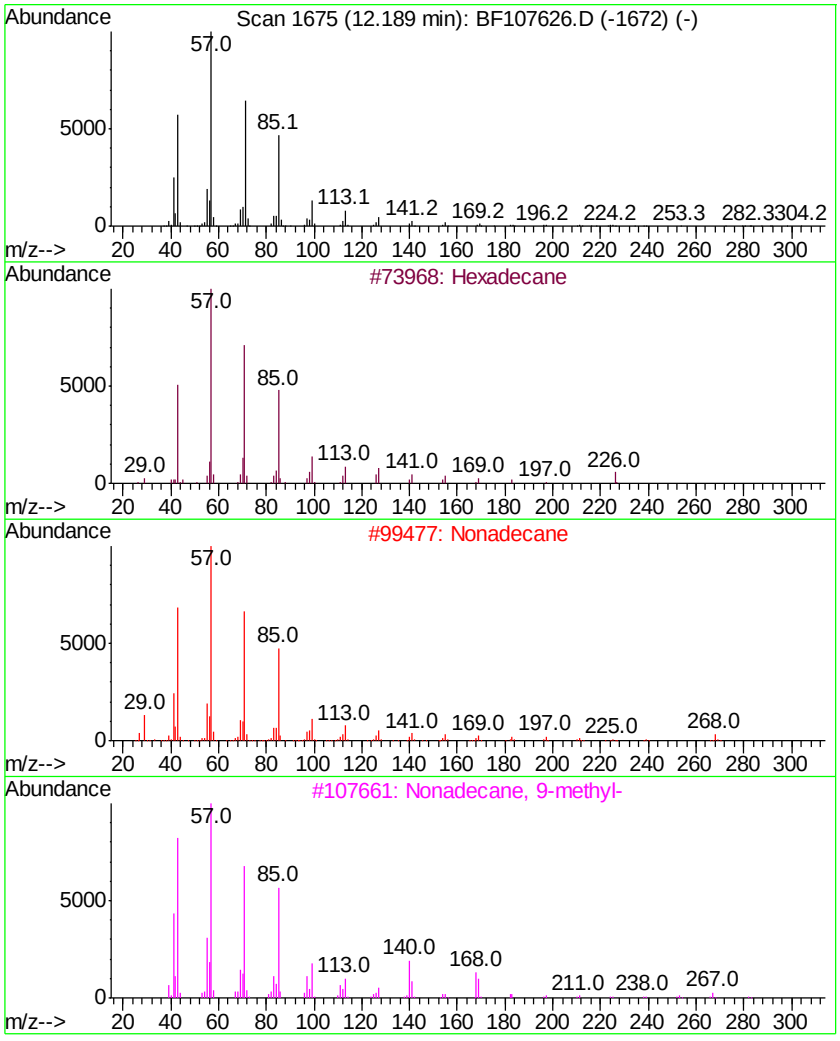
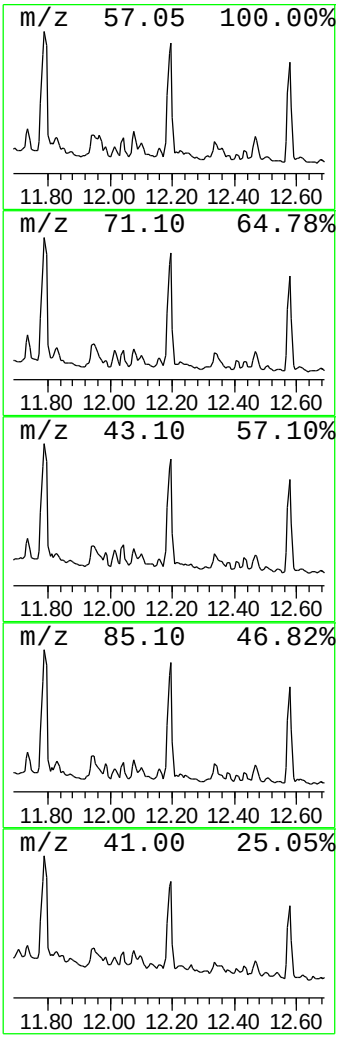
Peak Number 19 Hexadecane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.19	98.60 ng	5113270	Phenanthrene-d10	11.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	93
2	Nonadecane	268	C19H40	000629-92-5	91
3	Nonadecane, 9-methyl-	282	C20H42	013287-24-6	87
4	Octadecane	254	C18H38	000593-45-3	86
5	1-Iodoundecane	282	C11H23I	004282-44-4	83





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072418\
Data File : BF107626.D
Acq On : 24 Jul 2018 18:31
Operator : JU/SJ
Sample : J4110-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GS-RO-338-RO-147-RO-278

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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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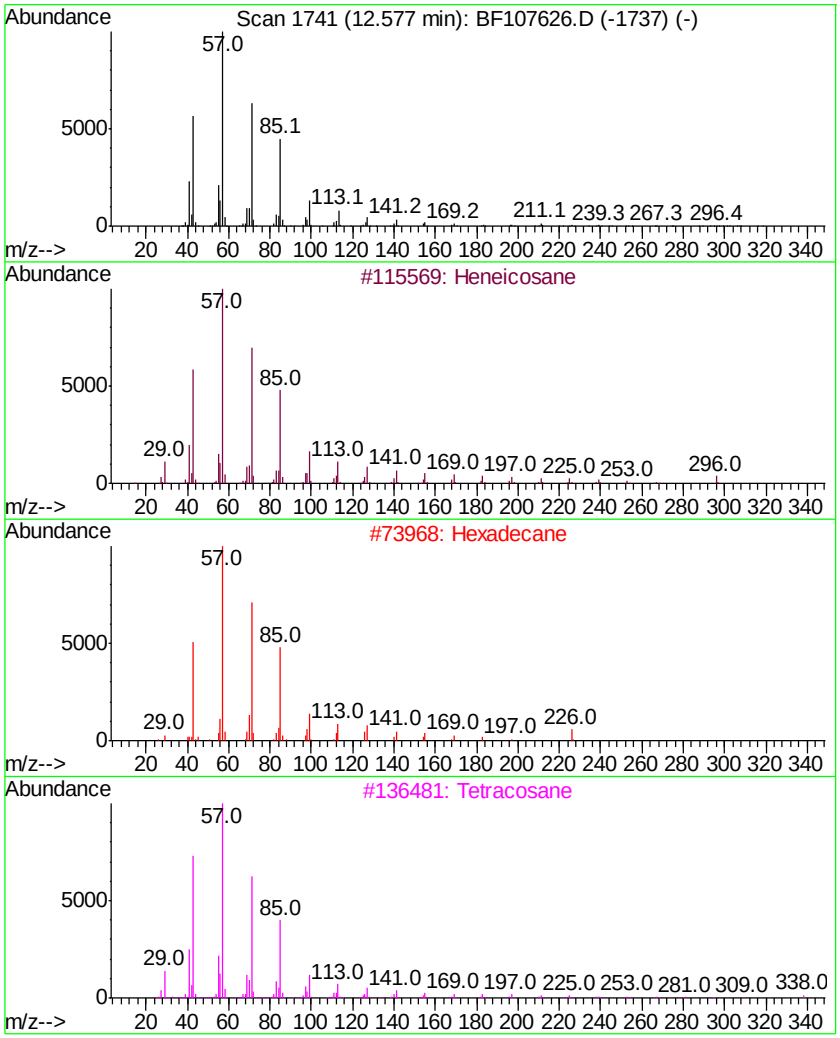
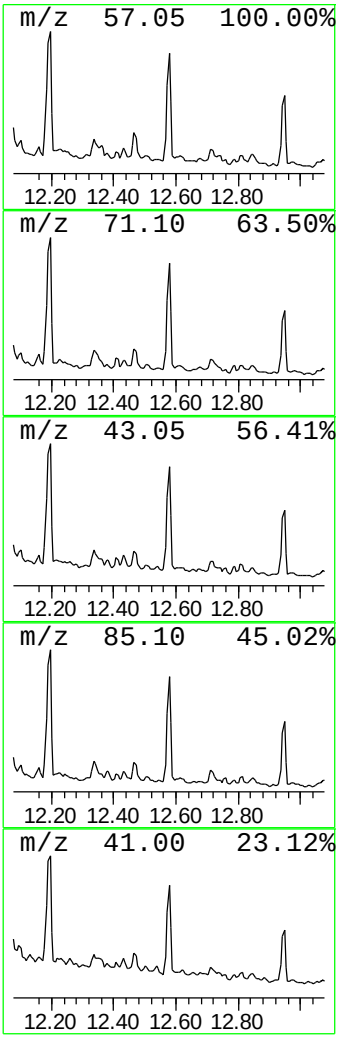
Peak Number 20 Nonadecane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.58	89.53 ng	4642780	Phenanthrene-d10	11.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	97
2	Hexadecane	226	C16H34	000544-76-3	93
3	Tetracosane	338	C24H50	000646-31-1	91
4	Nonadecane	268	C19H40	000629-92-5	91
5	Eicosane	282	C20H42	000112-95-8	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF072418\
Data File : BF107626.D
Acq On : 24 Jul 2018 18:31
Operator : JU/SJ
Sample : J4110-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GS-RO-338-RO-147-RO-278

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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
unknown8.54	8.54	84.9	ng	5666420	2	8.25	1334360	20.0
Undecane, 6-ethyl-	8.67	73.8	ng	4921000	2	8.25	1334360	20.0
Tridecane	8.85	219.1	ng	14619100	2	8.25	1334360	20.0
Dodecane, 1-iodo-	9.20	78.4	ng	3790430	3	10.02	967494	20.0
3,5-Dimethyldodecane	9.24	74.5	ng	3601590	3	10.02	967494	20.0
Heptadecane, 2,6,...	9.27	76.9	ng	3720340	3	10.02	967494	20.0
Tetradecane	9.42	283.4	ng	13707100	3	10.02	967494	20.0
Undecane, 3-methyl-	9.45	75.6	ng	3657860	3	10.02	967494	20.0
Naphthalene, 1,6-...	9.61	83.2	ng	4023840	3	10.02	967494	20.0
Pentadecane	9.95	203.9	ng	9863950	3	10.02	967494	20.0
Naphthalene, 2,3,...	10.22	73.7	ng	3564510	3	10.02	967494	20.0
Dodecane	10.26	106.9	ng	5170040	3	10.02	967494	20.0
Octacosane	10.45	227.2	ng	10991800	3	10.02	967494	20.0
Pentadecane, 2,6,...	10.66	124.9	ng	6043000	3	10.02	967494	20.0
Dodecane, 2-methyl-	10.92	240.8	ng	12484700	4	11.52	1037170	20.0
Heptadecane, 8-me...	11.37	126.8	ng	6573430	4	11.52	1037170	20.0
Hexadecane, 2,6,1...	11.40	106.4	ng	5516090	4	11.52	1037170	20.0
Heneicosane	11.79	117.9	ng	6113780	4	11.52	1037170	20.0
Hexadecane	12.19	98.6	ng	5113270	4	11.52	1037170	20.0
Nonadecane	12.58	89.5	ng	4642780	4	11.52	1037170	20.0