LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110719\
Data File : BF117708.D
Acq On : 7 Nov 2019 16:53
Operator : JU
Sample : K5723-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 7-A

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-BF110619.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.228	17	24	33	rVB	1276260	1677576	23.36%	2.133%
2	3.451	229	232	247	rBV	42485	96279	1.34%	0.122%
3	5.151	512	521	527	rBV	1142272	1320681	18.39%	1.679%
4	5.545	583	588	591	rBV	6048582	5787534	80.58%	7.359%
5	6.551	753	759	763	rBV	5938949	6370609	88.70%	8.100%
6	6.698	780	784	788	rBV	6332276	6282142	87.46%	7.987%
7	6.934	820	824	827	rBV	2412190	1876896	26.13%	2.386%
8	7.092	847	851	854	rVB	5937377	4915792	68.44%	6.250%
9	7.492	914	919	922	rBV	4452567	3847514	53.57%	4.892%
10	8.222	1039	1043	1045	rBV	2761206	2462383	34.28%	3.131%
11	9.298	1221	1226	1229	rBV	8295111	7182512	100.00%	9.132%
12	9.686	1289	1292	1296	rVB	1169992	915163	12.74%	1.164%
13	9.980	1338	1342	1345	rBV	3474517	2820792	39.27%	3.587%
14	10.180	1372	1376	1379	rBV	101186	91136	1.27%	0.116%
15	10.222	1379	1383	1388	rVB	108561	91193	1.27%	0.116%
16	10.322	1398	1400	1404	rVB	119828	99096	1.38%	0.126%
17	10.386	1406	1411	1413	rBV	103097	133384	1.86%	0.170%
18	10.480	1417	1427	1429	rBV2	70717	83629	1.16%	0.106%
19	10.527	1429	1435	1437	rBV2	177558	188614	2.63%	0.240%
20	10.598	1441	1447	1449	rBV	264249	307638	4.28%	0.391%
21	10.680	1457	1461	1467	rVB5	118800	227270	3.16%	0.289%
22	10.769	1471	1476	1479	rVV	5257944	4671251	65.04%	5.939%
23	10.804	1480	1482	1488	rVV3	128476	163705	2.28%	0.208%
24	10.869	1488	1493	1495	rVV2	247078	242109	3.37%	0.308%
25	10.892	1495	1497	1502	rVB	181221	186228	2.59%	0.237%
26	10.969	1507	1510	1513	rBV2	138966	149599	2.08%	0.190%
27	11.045	1519	1523	1524	rBV3	72789	82606	1.15%	0.105%
28	11.074	1524	1528	1531	rVV2	308139	481306	6.70%	0.612%
29	11.110	1531	1534	1537	rVV2	387682	464759	6.47%	0.591%
30	11.163	1540	1543	1545	rVB	172690	164493	2.29%	0.209%
31	11.192	1545	1548	1550	rBV2	84802	94254	1.31%	0.120%
32	11.216	1550	1552	1559	rVV3	118462	213604	2.97%	0.272%
33	11.274	1559	1562	1565	rVB3	100833	84140	1.17%	0.107%
34	11.369	1575	1578	1585	rVB3	95164	132777	1.85%	0.169%

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Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 7-A

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-BF110619.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.474	1592	1596	1598	rBV	3228206	2967592	41.32%	3.773%
36	11.492	1598	1599	1603	rVV	1403152	1052038	14.65%	1.338%
37	11.539	1603	1607	1610	rVV3	236232	278667	3.88%	0.354%
38	11.580	1610	1614	1617	rVV2	182674	206794	2.88%	0.263%
39	11.804	1648	1652	1659	rVB2	111324	144164	2.01%	0.183%
40	11.974	1677	1681	1683	rBV	724457	636162	8.86%	0.809%
41	11.998	1683	1685	1689	rVB2	804625	822375	11.45%	1.046%
42	12.086	1697	1700	1702	rBV2	177473	198570	2.76%	0.252%
43	12.110	1702	1704	1709	rVB	247970	201333	2.80%	0.256%
44	12.174	1709	1715	1717	rBV4	71790	125471	1.75%	0.160%
45	12.421	1750	1757	1760	rBV2	186971	261496	3.64%	0.332%
46	12.451	1760	1762	1764	rVB	151396	109408	1.52%	0.139%
47	12.527	1772	1775	1778	rBV	158348	154269	2.15%	0.196%
48	12.610	1786	1789	1795	rVB	115493	121761	1.70%	0.155%
49	12.686	1799	1802	1807	rVV	742630	629520	8.76%	0.800%
50	12.780	1816	1818	1821	rBV	104094	88096	1.23%	0.112%
51	12.916	1836	1841	1842	rBV	665582	604160	8.41%	0.768%
52	12.933	1842	1844	1847	rVV	1082579	891933	12.42%	1.134%
53	12.968	1847	1850	1855	rVB3	54252	81960	1.14%	0.104%
54	13.063	1862	1866	1869	rBV	7508481	6696805	93.24%	8.515%
55	13.139	1875	1879	1882	rBV3	62094	95267	1.33%	0.121%
56	13.351	1911	1915	1917	rBV2	81117	79247	1.10%	0.101%
57	13.957	2015	2018	2026	rBV	732453	695425	9.68%	0.884%
58	14.115	2040	2045	2048	rBV	2419829	2389039	33.26%	3.038%
59	14.139	2048	2049	2056	rVB	212829	191174	2.66%	0.243%
60	14.286	2070	2074	2079	rBV2	99388	107693	1.50%	0.137%
61	14.592	2122	2126	2130	rBV	179408	199024	2.77%	0.253%
62	14.910	2177	2180	2187	rVB	163149	192954	2.69%	0.245%
63	14.992	2191	2194	2200	rVB	194235	200488	2.79%	0.255%
64	15.174	2221	2225	2229	rBV	180482	298268	4.15%	0.379%
65	15.268	2237	2241	2251	rVB2	178385	290200	4.04%	0.369%
66	15.492	2276	2279	2286	rVB	112479	156890	2.18%	0.199%
67	15.557	2286	2290	2296	rVB	146005	188049	2.62%	0.239%
68	15.627	2296	2302	2306	rBV	1880530	2313854	32.22%	2.942%
69	15.668	2306	2309	2318	rVB2	187537	291585	4.06%	0.371%
70	16.133	2383	2388	2393	rBV	145963	241818	3.37%	0.307%
71	16.180	2393	2396	2406	rVB7	65400	127781	1.78%	0.162%

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Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 7-A

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-BF110619.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	16.674	2475	2480	2490	rBV3	74188	161371	2.25%	0.205%
73	17.151	2556	2561	2570	rVB3	67522	148336	2.07%	0.189%
74	17.609	2635	2639	2647	rVB2	50126	100493	1.40%	0.128%

Sum of corrected areas: 78650194

LSC Report - Integrated Chromatogram

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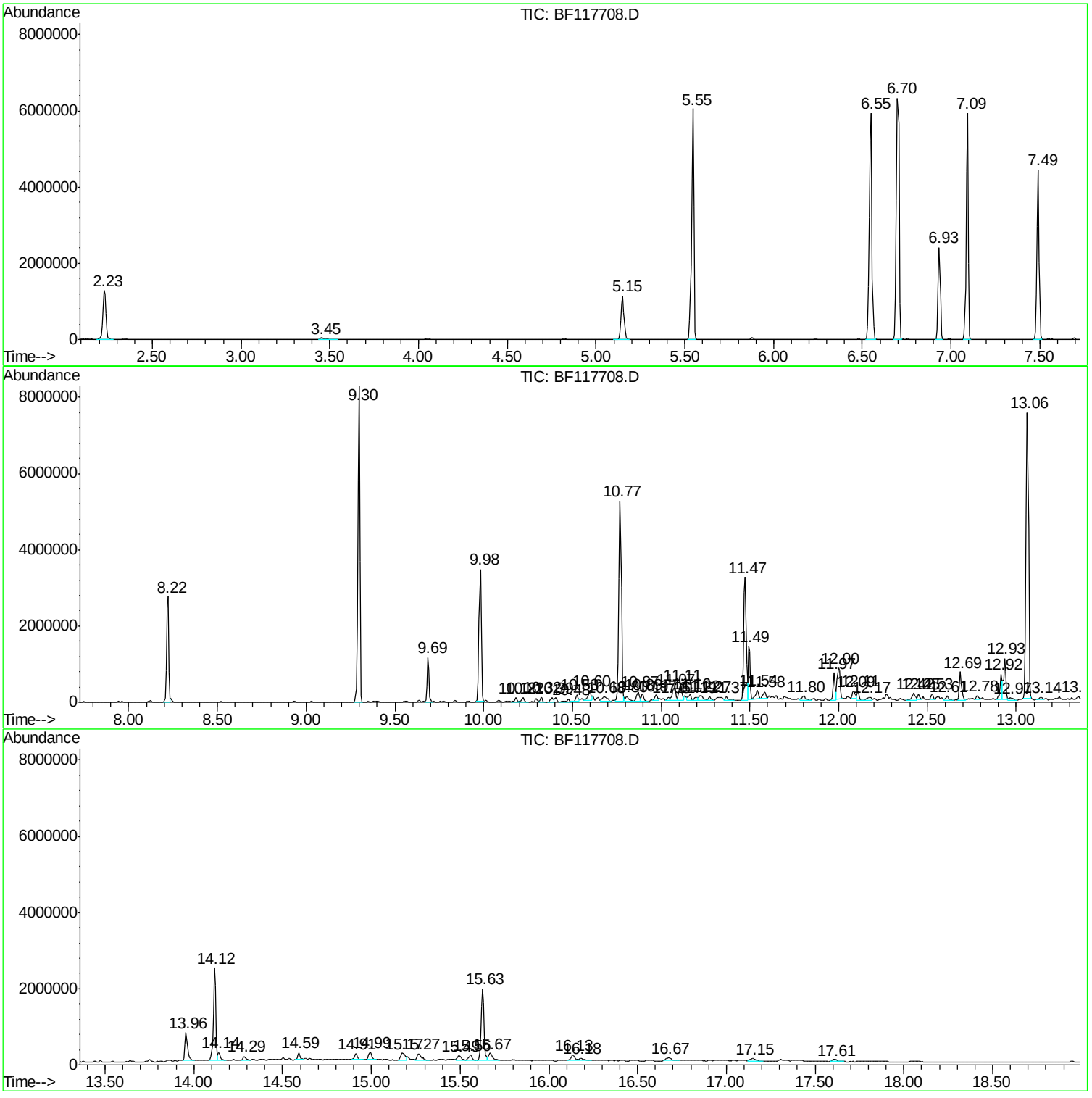
Sample : K5723-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 7-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110719\
Data File : BF117708.D
Acq On : 7 Nov 2019 16:53
Operator : JU
Sample : K5723-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 7-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

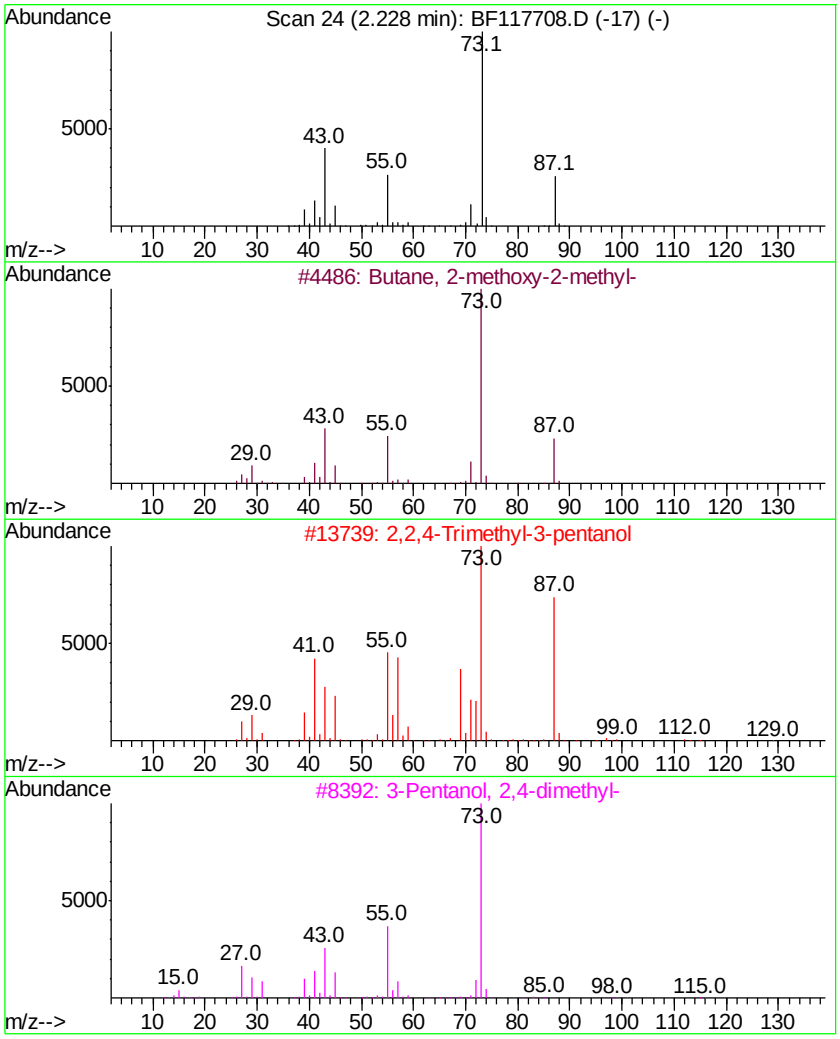
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

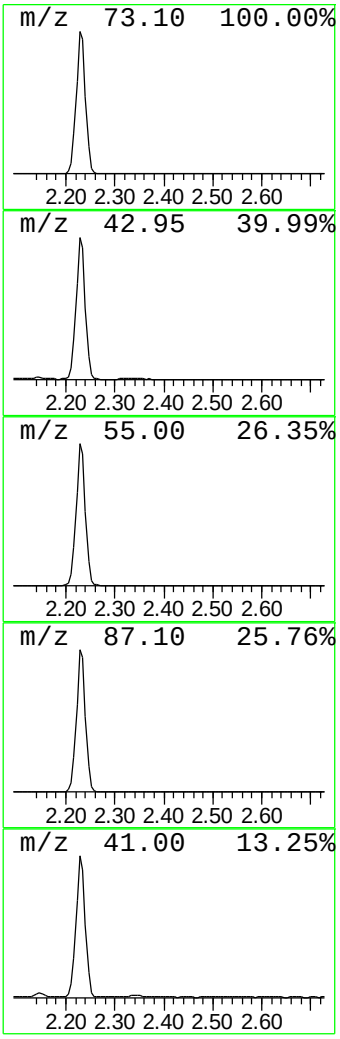
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.23	17.88 ng	1677580	1,4-Dichlorobenzene-d4	6.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	3-Pentanol, 2,4-dimethyl-	116	C7H16O	000600-36-2	37
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	23
5	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110719\
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Acq On : 7 Nov 2019 16:53
Operator : JU
Sample : K5723-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 7-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

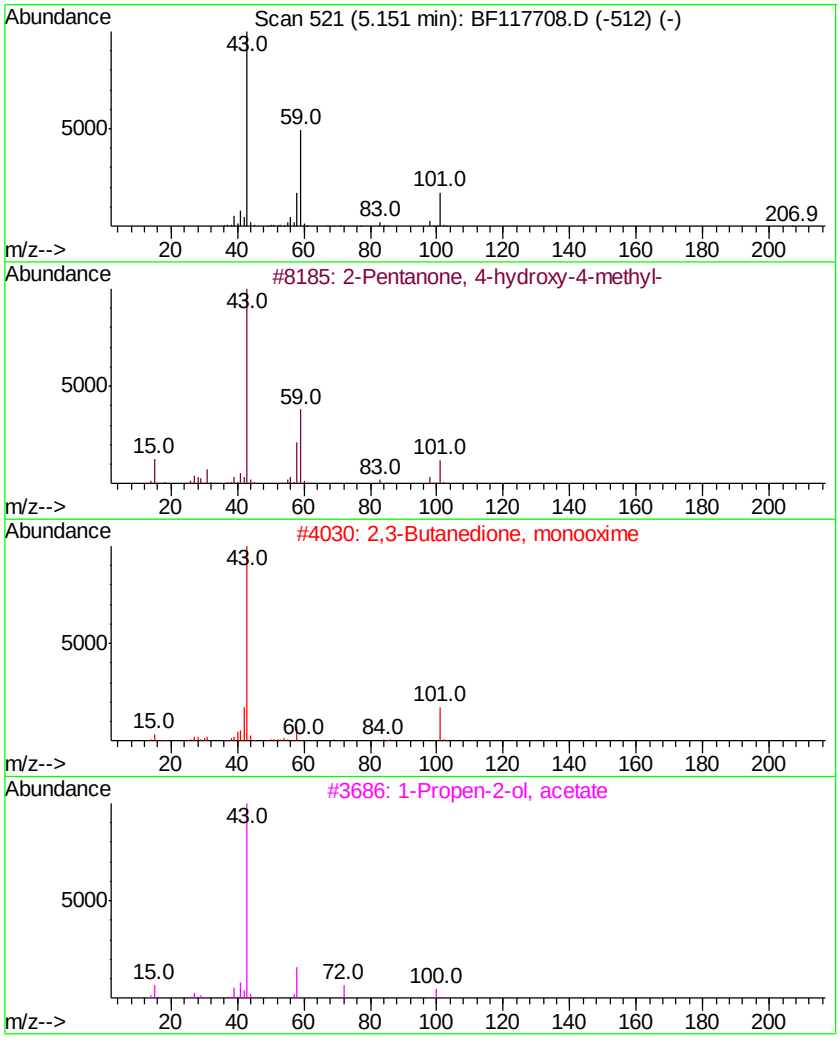
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

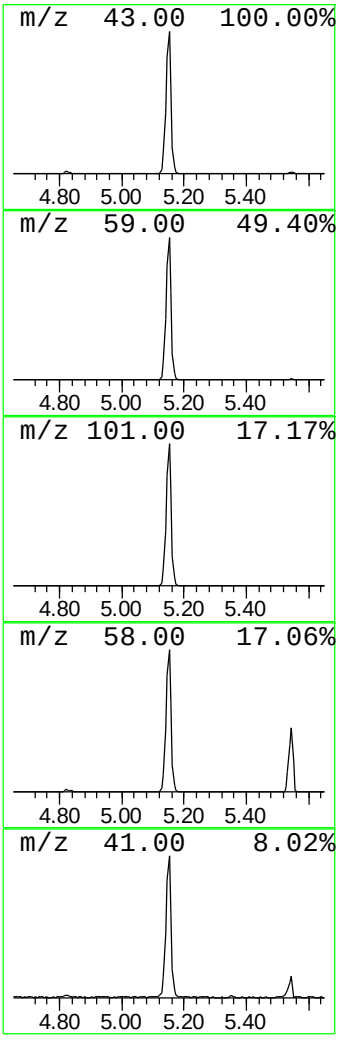
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.15	14.07 ng	1320680	1,4-Dichlorobenzene-d4	6.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	27
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
4	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	9
5	Allyl acetate	100	C5H8O2	000591-87-7	9





Library Search Compound Report

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Data File : BF117708.D
Acq On : 7 Nov 2019 16:53
Operator : JU
Sample : K5723-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 7-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

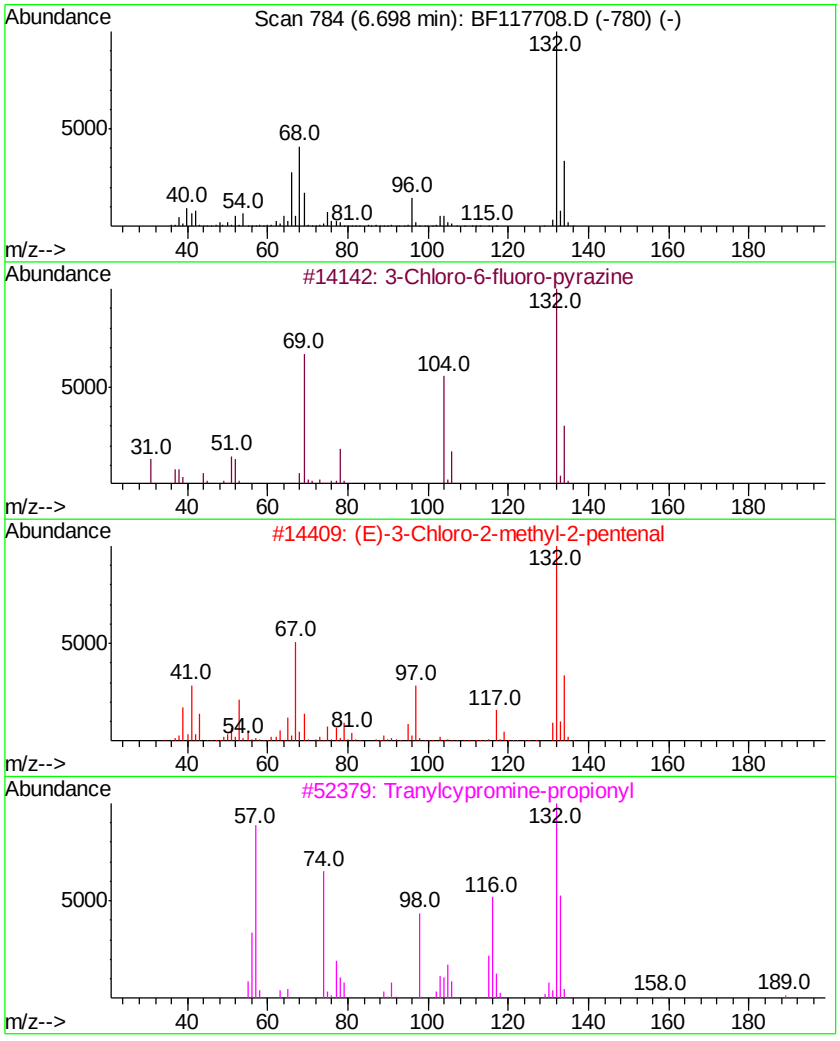
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

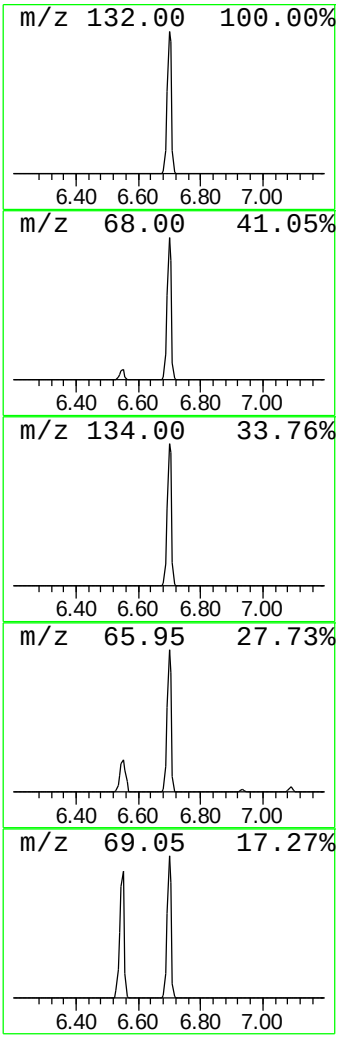
****

Peak Number 3 unknown6.70 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.70	66.94 ng	6282140	1,4-Dichlorobenzene-d4	6.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
4	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
5	Benzene, 1-ethenyl-3,5-dimethyl-	132	C10H12	005379-20-4	9





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Instrument : BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110619.M
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TIC Library : C:\DATABASE\NIST11.L
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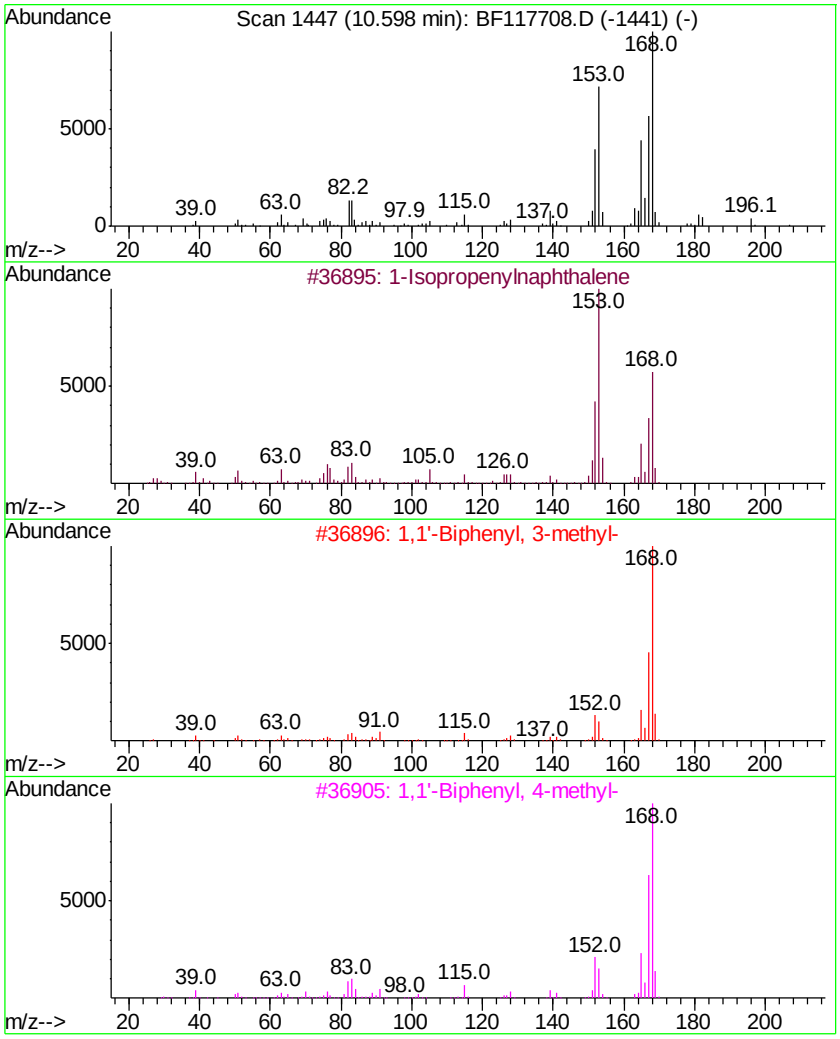
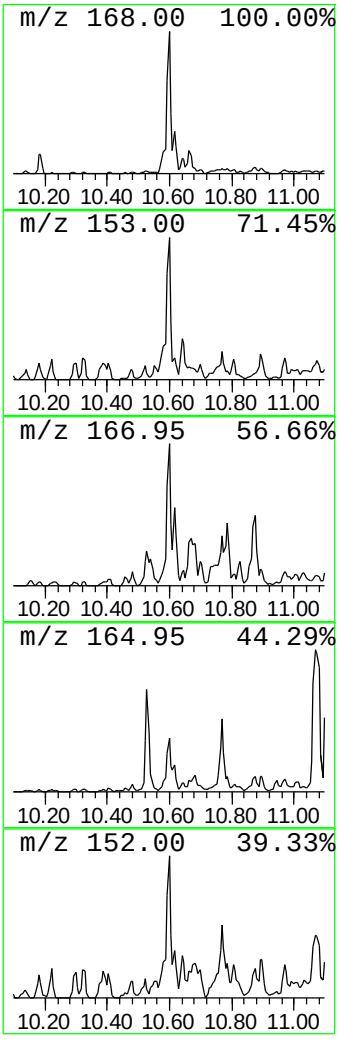
****

Peak Number 5 1-Isopropenylnaphthalene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.60	2.18 ng	307638	Acenaphthene-d10	9.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	58
2	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	58
3	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	46
4	Nordiphenamid	225	C15H15NO	000954-21-2	38
5	N-Nitrosodiphenylamine	198	C12H10N2O	000086-30-6	35





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Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 7-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

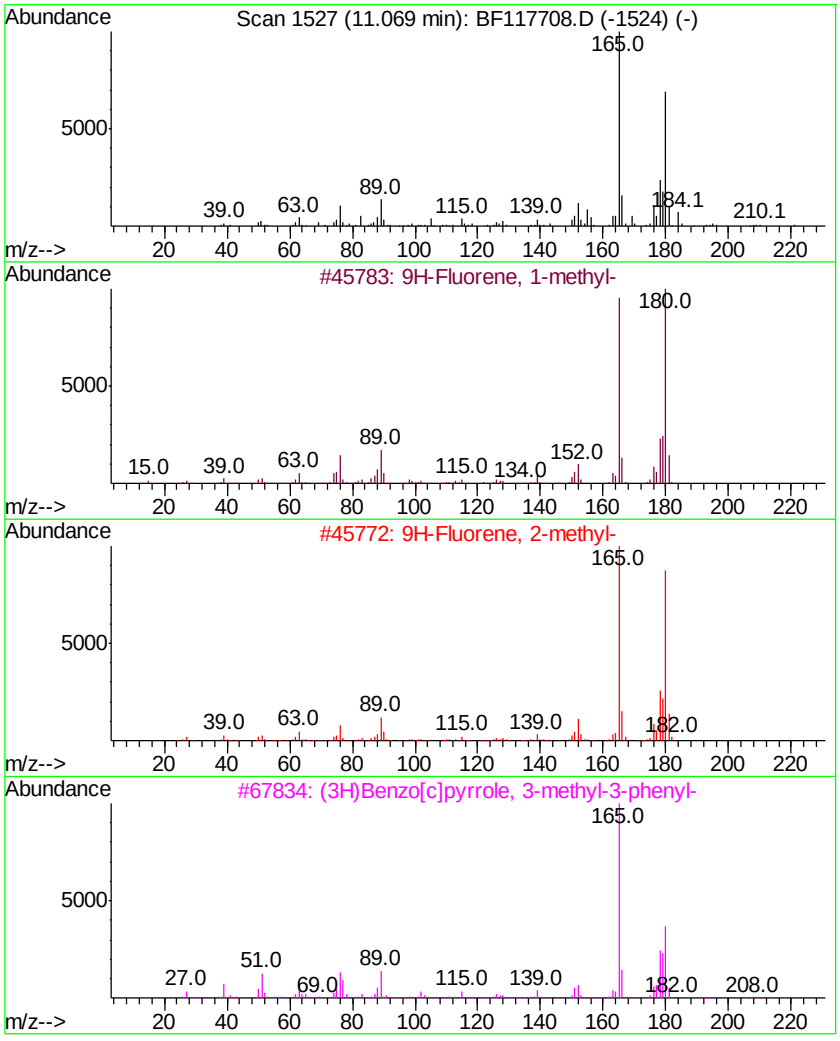
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

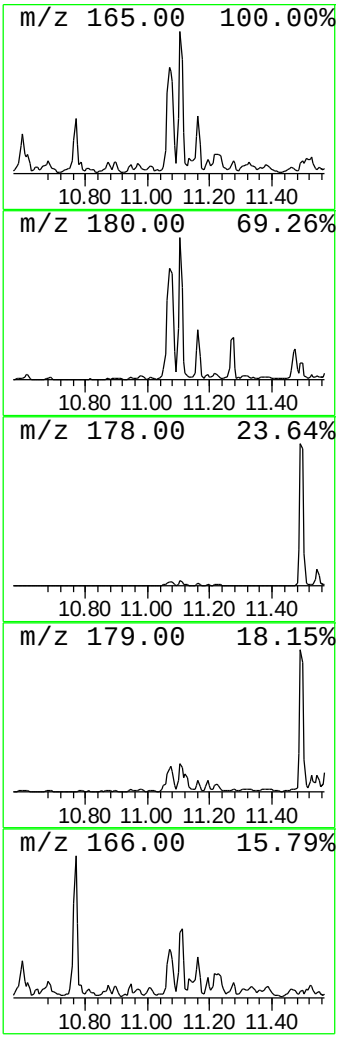
****

Peak Number 6 9H-Fluorene, 1-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.07	3.24 ng	481306	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	90
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	89
3	(3H)Benzo[c]pyrrole, 3-methyl-3-...	208	C14H12N2	059341-20-7	72
4	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	70
5	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	68





Library Search Compound Report

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Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 7-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

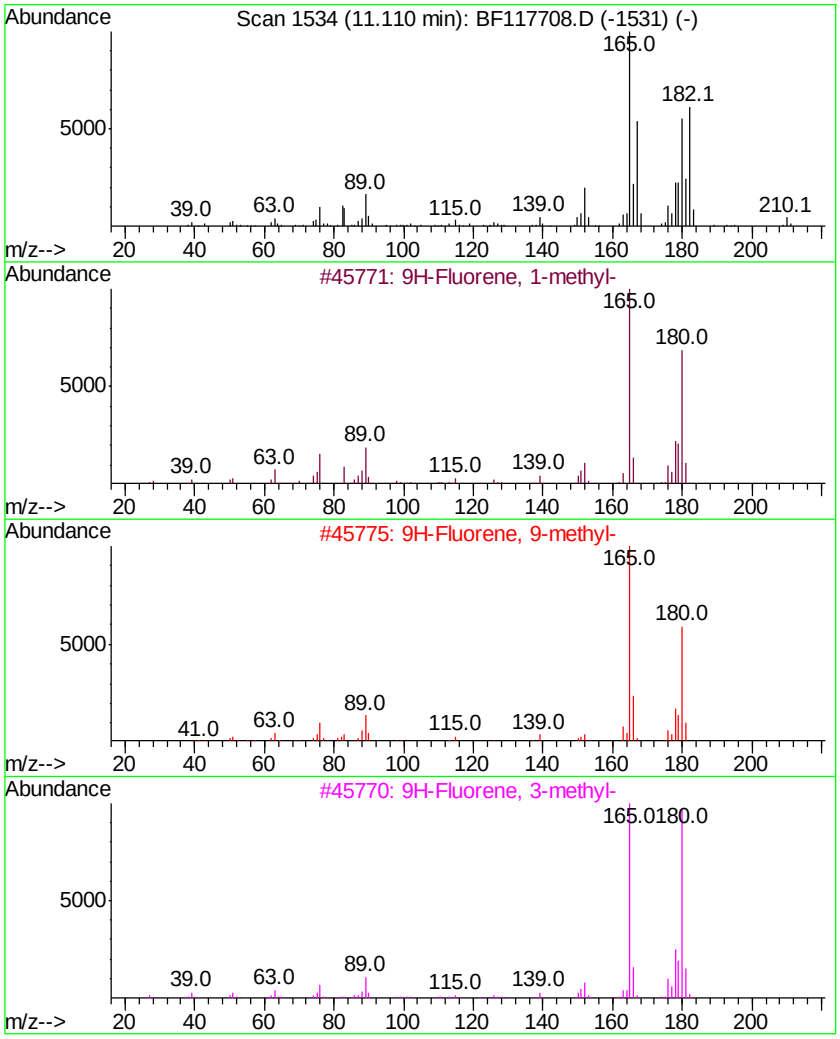
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

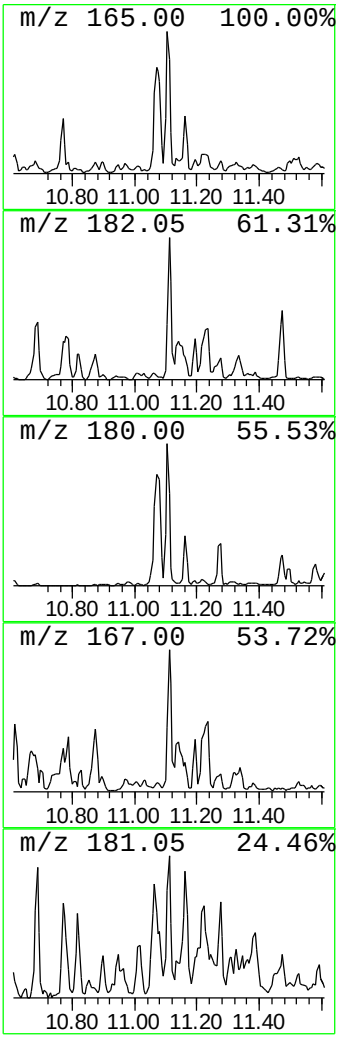
****

Peak Number 7 9H-Fluorene, 9-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.11	3.13 ng	464759	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	50
2	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	50
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	49
4	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	49
5	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	38





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Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 7-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

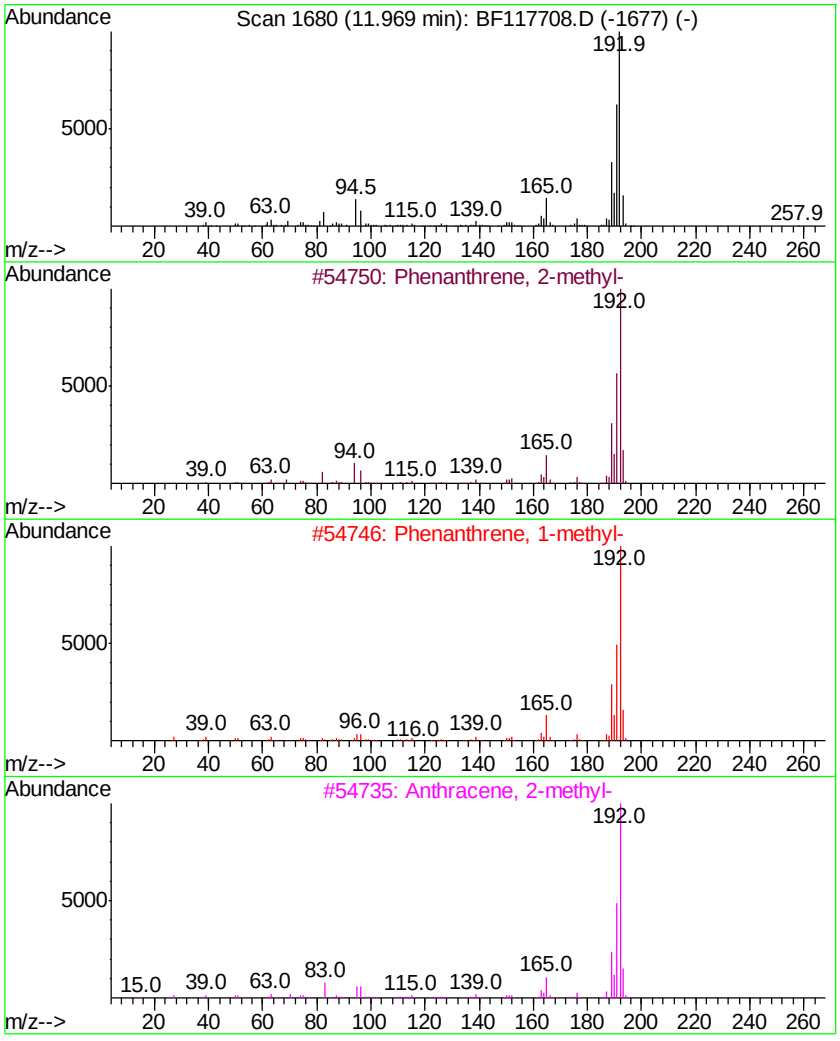
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

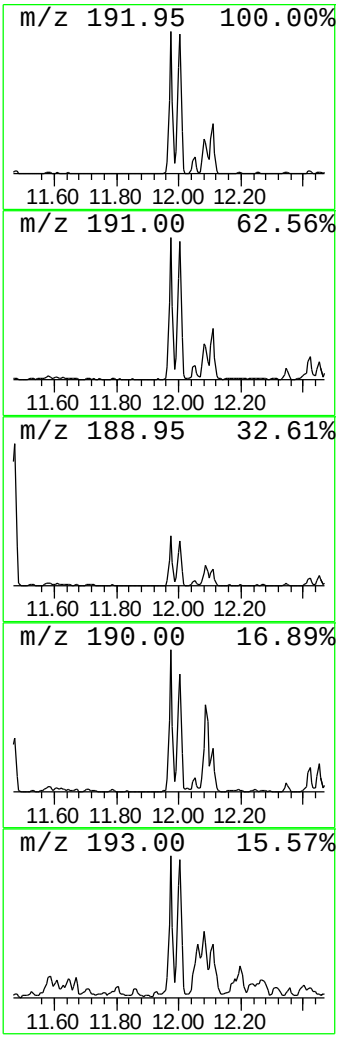
****

Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	4.29 ng	636162	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	93





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Data File : BF117708.D
Acq On : 7 Nov 2019 16:53
Operator : JU
Sample : K5723-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 7-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110619.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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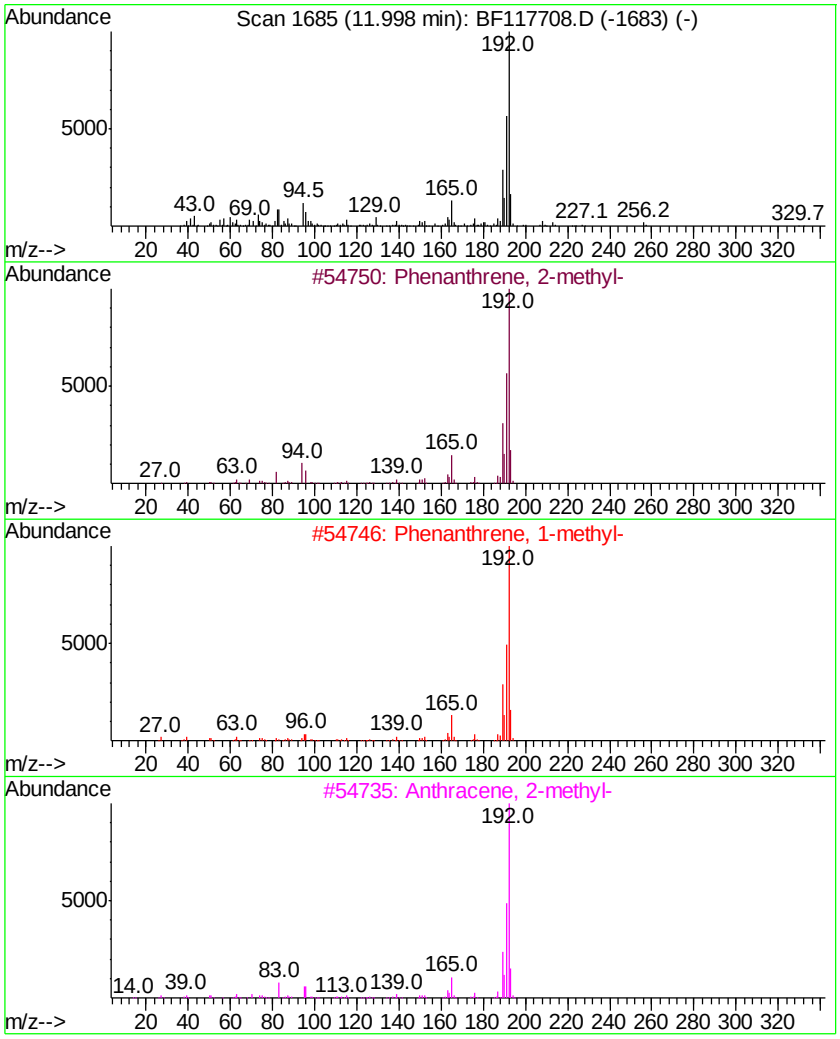
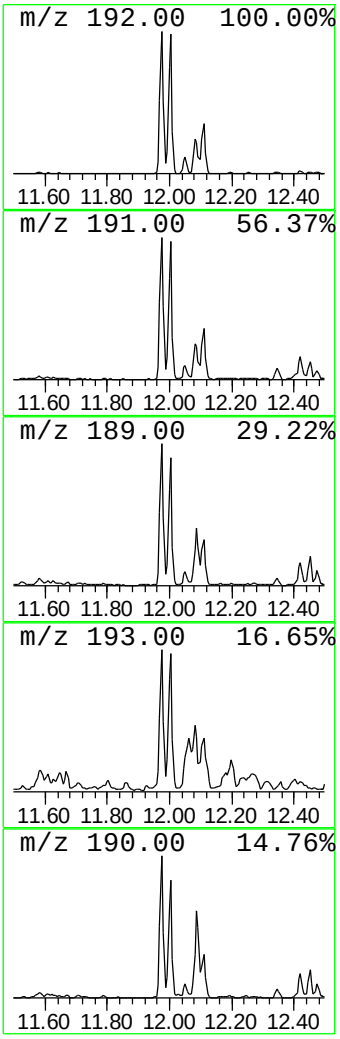
Peak Number 9 Phenanthrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	5.54 ng	822375	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93





Library Search Compound Report

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Data File : BF117708.D
Acq On : 7 Nov 2019 16:53
Operator : JU
Sample : K5723-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 7-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110619.M
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TIC Integration Parameters: LSCINT.P

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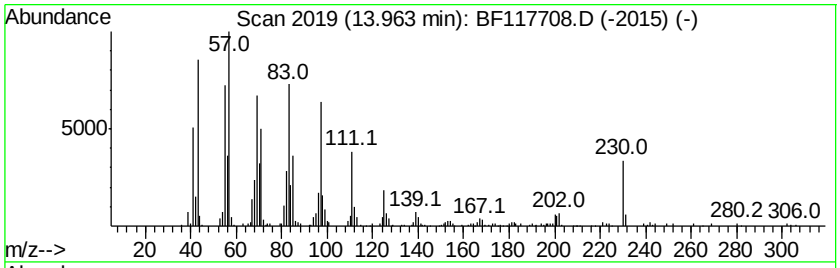
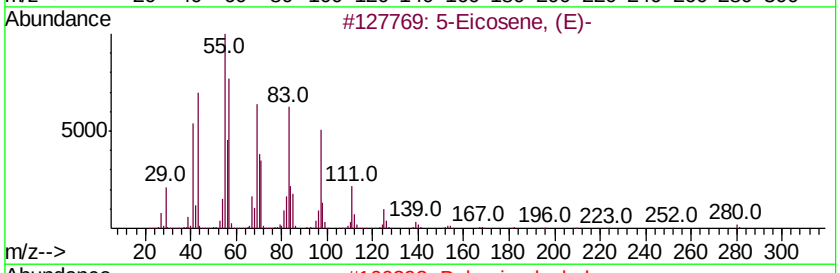
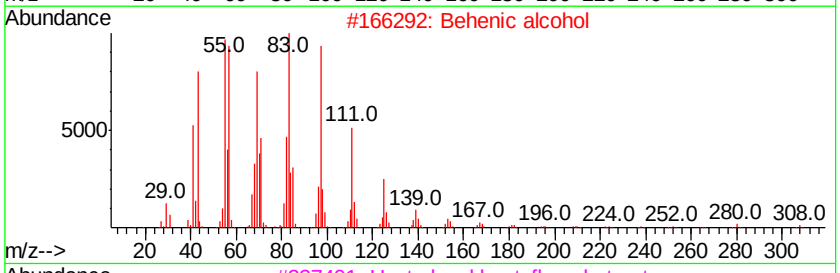
Peak Number 10 5-Eicosene, (E)- Concentration Rank 5

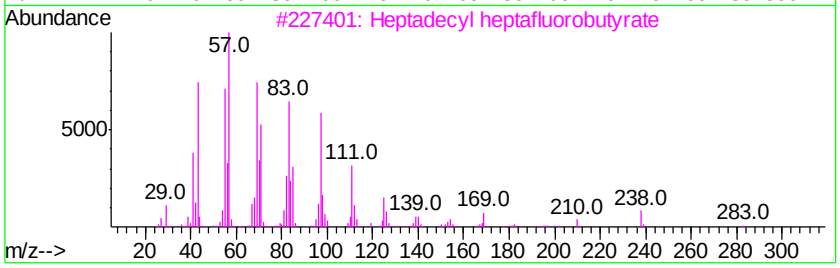
R.T.	EstConc	Area	Relative to ISTD	R.T.
13.96	5.82 ng	695425	Chrysene-d12	14.12

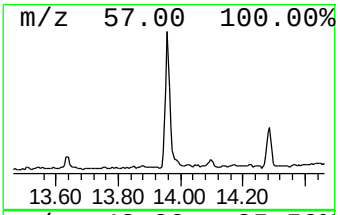
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Eicosene, (E)-	280	C20H40	074685-30-6	96
2	Behenic alcohol	326	C22H46O	000661-19-8	94
3	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	94
4	1-Heneicosanol	312	C21H44O	015594-90-8	94
5	2- Chloropropionic acid, octadec...	360	C21H41ClO2	088104-31-8	94

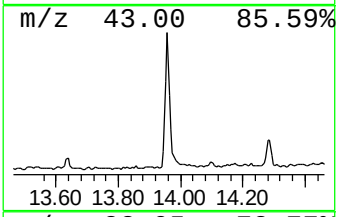


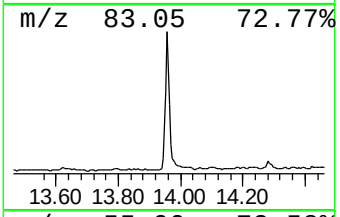


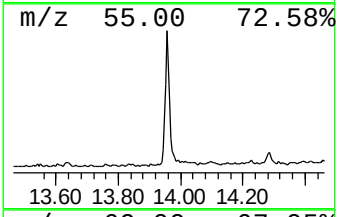


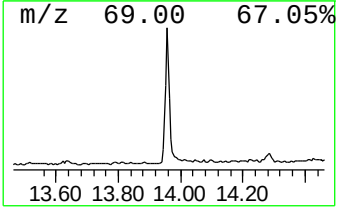












Library Search Compound Report

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Data File : BF117708.D
Acq On : 7 Nov 2019 16:53
Operator : JU
Sample : K5723-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 7-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110619.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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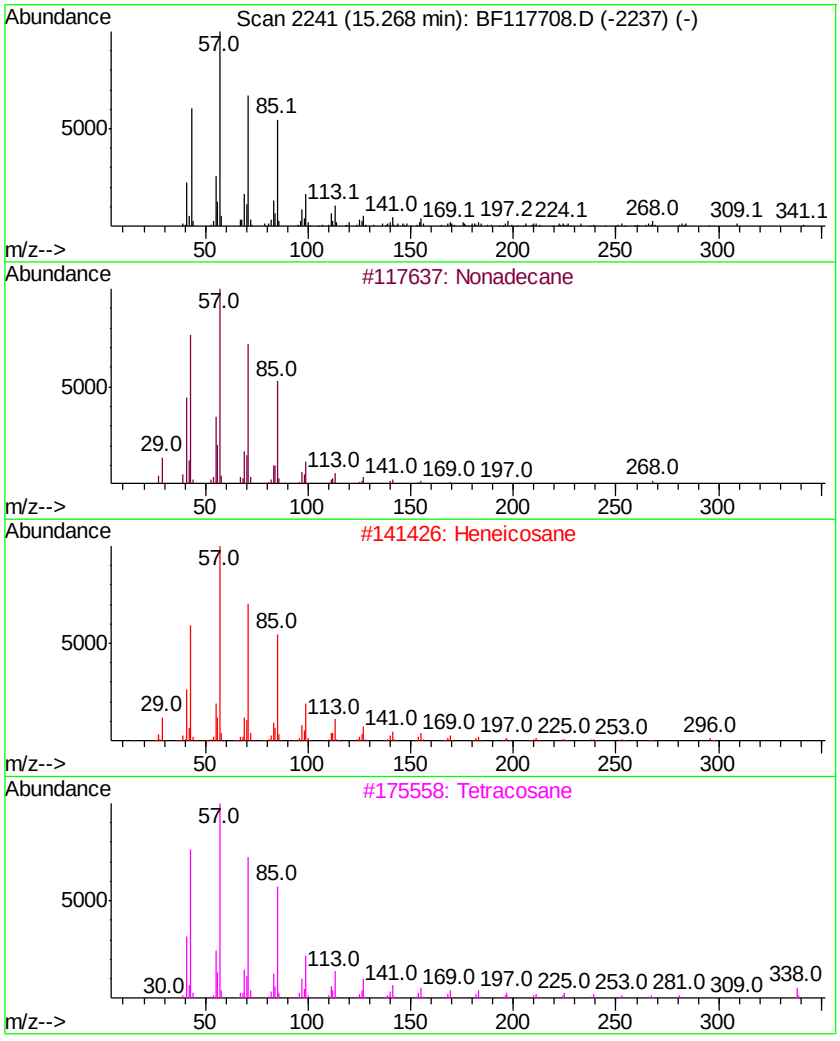
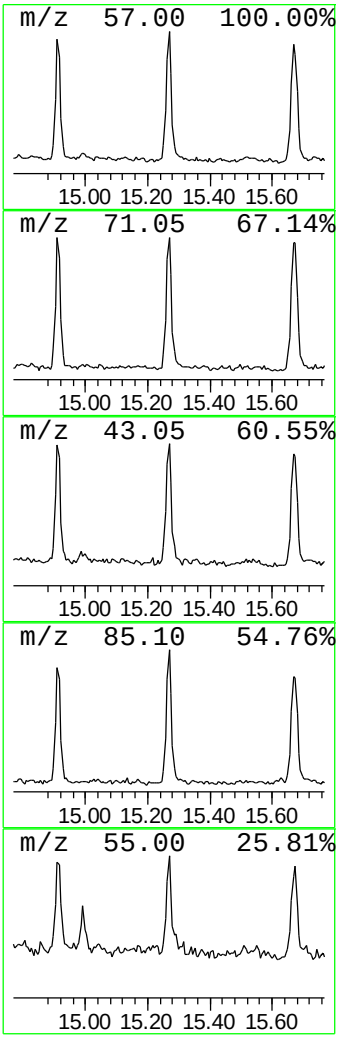
Peak Number 11 Nonadecane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.27	2.51 ng	290200	Perylene-d12	15.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	93
2	Heneicosane	296	C21H44	000629-94-7	90
3	Tetracosane	338	C24H50	000646-31-1	87
4	Heptacosane	380	C27H56	000593-49-7	86
5	Decane, 3,8-dimethyl-	170	C12H26	017312-55-9	86





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ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 7-A

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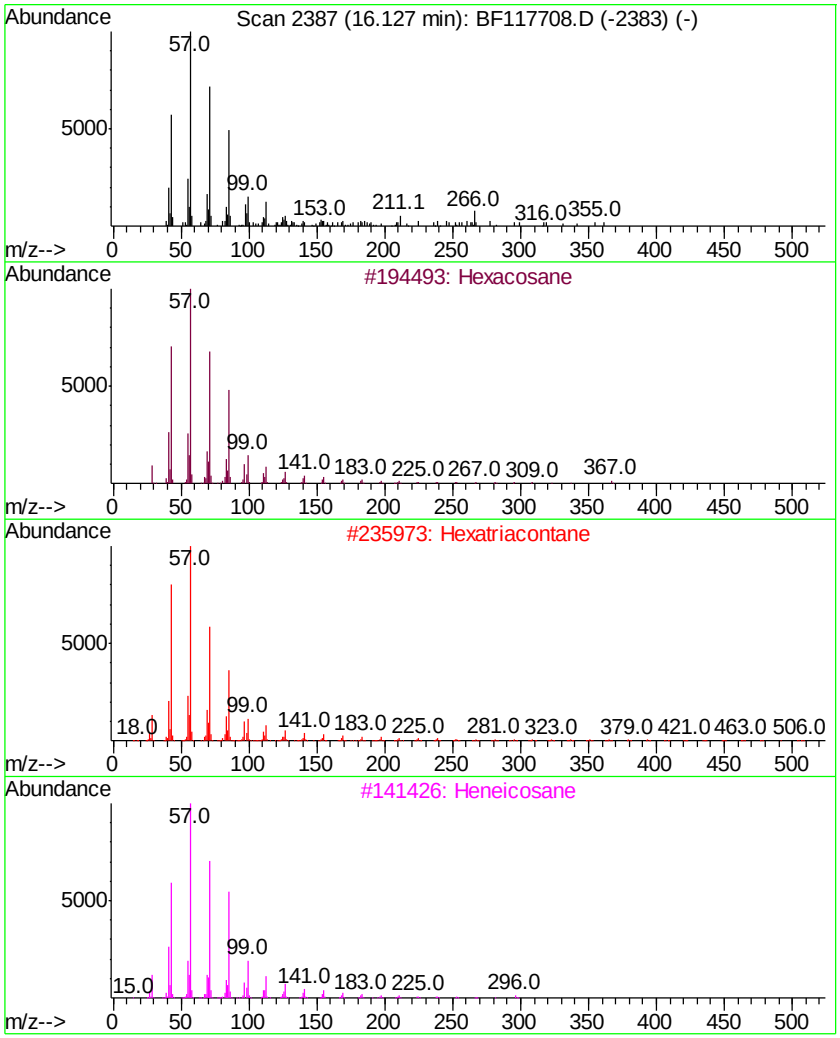
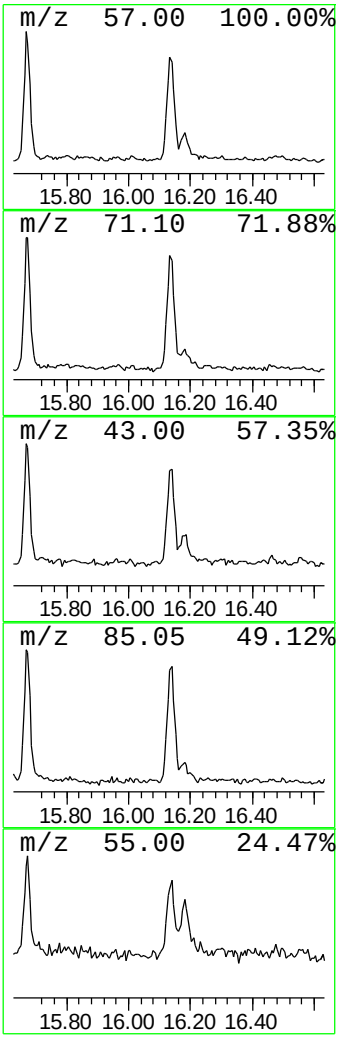
Peak Number 12 Hexacosane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.13	2.09 ng	241818	Perylene-d12	15.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexacosane	366	C26H54	000630-01-3	90
2	Hexatriacontane	507	C36H74	000630-06-8	87
3	Heneicosane	296	C21H44	000629-94-7	87
4	Tetracosane	338	C24H50	000646-31-1	87
5	Octacosane	394	C28H58	000630-02-4	87





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF110719\
Data File : BF117708.D
Acq On : 7 Nov 2019 16:53
Operator : JU
Sample : K5723-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 7-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110619.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
Butane, 2-methoxy...	2.23	17.9	ng	1677580	1	6.93	1876900	20.0
2-Pentanone, 4-hy...	5.15	14.1	ng	1320680	1	6.93	1876900	20.0
unknown6.70	6.70	66.9	ng	6282140	1	6.93	1876900	20.0
1-Isopropenylnaph...	10.60	2.2	ng	307638	3	9.98	2820790	20.0
9H-Fluorene, 1-me...	11.07	3.2	ng	481306	4	11.47	2967590	20.0
9H-Fluorene, 9-me...	11.11	3.1	ng	464759	4	11.47	2967590	20.0
Phenanthrene, 2-m...	11.97	4.3	ng	636162	4	11.47	2967590	20.0
Phenanthrene, 1-m...	12.00	5.5	ng	822375	4	11.47	2967590	20.0
5-Eicosene, (E)-	13.96	5.8	ng	695425	5	14.12	2389040	20.0
Nonadecane	15.27	2.5	ng	290200	6	15.63	2313850	20.0
Hexacosane	16.13	2.1	ng	241818	6	15.63	2313850	20.0