LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022720\
Data File : BF119126.D
Acq On : 28 Feb 2020 00:03
Operator : CG/JU
Sample : L1696-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : FK-GF-02-052-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-BF022020.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	4.957	485	488	498	rVB	36780	53294	1.88%	0.115%
2	5.369	555	558	580	rVB	2269080	2484631	87.75%	5.362%
3	6.393	728	732	749	rBV	2481922	2584124	91.26%	5.577%
4	6.745	788	792	799	rBV	1005127	844789	29.83%	1.823%
5	6.904	815	819	822	rBV	2400413	2228337	78.69%	4.809%
6	7.310	883	888	894	rBV	1657902	1571108	55.48%	3.391%
7	7.557	927	930	933	rBV	74901	74050	2.62%	0.160%
8	7.592	933	936	938	rVV	166219	149130	5.27%	0.322%
9	7.616	938	940	942	rVV	65541	51977	1.84%	0.112%
10	7.645	942	945	949	rVB	94081	85580	3.02%	0.185%
11	7.716	952	957	959	rBV	80073	72697	2.57%	0.157%
12	7.745	959	962	964	rVV	96864	98336	3.47%	0.212%
13	7.769	964	966	970	rVB2	71276	64855	2.29%	0.140%
14	7.828	972	976	979	rBV	58778	63074	2.23%	0.136%
15	7.875	979	984	990	rVV3	128723	183345	6.47%	0.396%
16	7.934	990	994	997	rVV	55880	62134	2.19%	0.134%
17	7.969	997	1000	1002	rVV	58605	50478	1.78%	0.109%
18	8.028	1006	1010	1012	rVV	1139964	1117084	39.45%	2.411%
19	8.051	1012	1014	1017	rVV2	1947576	1806198	63.79%	3.898%
20	8.081	1017	1019	1028	rVB2	227832	206195	7.28%	0.445%
21	8.386	1068	1071	1080	rBV	40516	52311	1.85%	0.113%
22	8.739	1127	1131	1134	rBV	458258	359725	12.70%	0.776%
23	8.839	1144	1148	1155	rVB	247973	232233	8.20%	0.501%
24	9.098	1188	1192	1196	rBV	2940385	2831643	100.00%	6.111%
25	9.198	1205	1209	1216	rVB	189368	196608	6.94%	0.424%
26	9.298	1222	1226	1233	rVB	68050	68189	2.41%	0.147%
27	9.363	1233	1237	1242	rBV	81697	113139	4.00%	0.244%
28	9.439	1246	1250	1252	rVV	114084	117590	4.15%	0.254%
29	9.463	1252	1254	1256	rVV	70259	62649	2.21%	0.135%
30	9.492	1256	1259	1264	rVV	335401	301959	10.66%	0.652%
31	9.557	1266	1270	1275	rVB2	49055	54689	1.93%	0.118%
32	9.781	1300	1308	1310	rBV	1163186	1142133	40.33%	2.465%
33	9.810	1310	1313	1317	rVV	1448396	1261842	44.56%	2.723%
34	9.933	1330	1334	1339	rBV	59753	58476	2.07%	0.126%

LSC Area Percent Report

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Acq On : 28 Feb 2020 00:03
Operator : CG/JU
Sample : L1696-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : FK-GF-02-052-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-BF022020.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	9.980	1339	1342	1347	rBV	776996	679670	24.00%	1.467%
36	10.328	1397	1401	1406	rBV	961829	927165	32.74%	2.001%
37	10.392	1406	1412	1413	rVV	57586	75980	2.68%	0.164%
38	10.410	1413	1415	1418	rVV	106792	92923	3.28%	0.201%
39	10.457	1421	1423	1425	rVV	58626	50981	1.80%	0.110%
40	10.480	1425	1427	1431	rVB	115261	100688	3.56%	0.217%
41	10.569	1438	1442	1448	rBV	1680312	1644223	58.07%	3.549%
42	10.875	1487	1494	1496	rBV3	66315	83377	2.94%	0.180%
43	11.069	1524	1527	1532	rVB	74638	75013	2.65%	0.162%
44	11.116	1532	1535	1539	rVV3	32010	51194	1.81%	0.110%
45	11.157	1539	1542	1549	rVB	189592	170946	6.04%	0.369%
46	11.263	1556	1560	1562	rBV	1029338	1029470	36.36%	2.222%
47	11.286	1562	1564	1568	rVV	2920576	2365455	83.54%	5.105%
48	11.339	1568	1573	1576	rVV	689477	668990	23.63%	1.444%
49	11.375	1576	1579	1585	rVB	49542	54936	1.94%	0.119%
50	11.492	1594	1599	1607	rBV	293542	312152	11.02%	0.674%
51	11.557	1607	1610	1614	rVV3	47477	52589	1.86%	0.113%
52	11.763	1641	1645	1647	rBV	143196	121186	4.28%	0.262%
53	11.792	1647	1650	1653	rVV	264950	240591	8.50%	0.519%
54	11.839	1656	1658	1661	rVV	78074	70623	2.49%	0.152%
55	11.874	1661	1664	1667	rVV	322296	329210	11.63%	0.711%
56	12.057	1691	1695	1698	rVB	111189	100643	3.55%	0.217%
57	12.086	1698	1700	1706	rVB	65659	65235	2.30%	0.141%
58	12.310	1734	1738	1742	rBV2	45901	58851	2.08%	0.127%
59	12.351	1742	1745	1750	rVV5	40233	49275	1.74%	0.106%
60	12.474	1762	1766	1770	rBV	2053654	1819980	64.27%	3.928%
61	12.622	1788	1791	1795	rVB	46922	47471	1.68%	0.102%
62	12.704	1798	1805	1808	rBV	1539787	1673995	59.12%	3.613%
63	12.751	1811	1813	1819	rVB3	64585	67149	2.37%	0.145%
64	12.845	1822	1829	1832	rBV	2605791	2503373	88.41%	5.403%
65	12.927	1837	1843	1845	rBV2	75331	131659	4.65%	0.284%
66	13.010	1853	1857	1858	rBV3	79580	88324	3.12%	0.191%
67	13.033	1858	1861	1864	rVB	215600	215886	7.62%	0.466%
68	13.098	1869	1872	1875	rBV2	220733	188265	6.65%	0.406%
69	13.133	1875	1878	1880	rBV2	102703	107978	3.81%	0.233%
70	13.227	1891	1894	1897	rBV	63476	60630	2.14%	0.131%
71	13.257	1897	1899	1903	rVV2	62306	64684	2.28%	0.140%

LSC Area Percent Report

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Sample : L1696-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : FK-GF-02-052-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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Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022020.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.339	1908	1913	1917	rVV6	34741	49546	1.75%	0.107%
73	13.539	1945	1947	1952	rBV	73124	72846	2.57%	0.157%
74	13.651	1962	1966	1968	rBV	160027	160506	5.67%	0.346%
75	13.674	1968	1970	1972	rVV	122569	106744	3.77%	0.230%
76	13.704	1972	1975	1980	rVV3	107223	201195	7.11%	0.434%
77	13.751	1980	1983	1989	rVV2	180978	263470	9.30%	0.569%
78	13.816	1992	1994	2000	rVB	47003	54848	1.94%	0.118%
79	13.898	2000	2008	2011	rBV2	1376666	2064795	72.92%	4.456%
80	13.927	2011	2013	2021	rVB	747683	672621	23.75%	1.452%
81	14.004	2021	2026	2029	rBV	185798	194907	6.88%	0.421%
82	14.051	2032	2034	2039	rVV3	43715	89039	3.14%	0.192%
83	14.092	2039	2041	2043	rVV	60759	59586	2.10%	0.129%
84	14.127	2043	2047	2051	rVB2	66381	99424	3.51%	0.215%
85	14.251	2065	2068	2070	rBV2	49032	52485	1.85%	0.113%
86	14.286	2072	2074	2077	rVV	116312	108138	3.82%	0.233%
87	14.321	2077	2080	2084	rVB2	57921	61172	2.16%	0.132%
88	14.368	2085	2088	2089	rBV2	65746	66908	2.36%	0.144%
89	14.410	2093	2095	2097	rVV	77055	77631	2.74%	0.168%
90	14.433	2097	2099	2101	rVB	107350	81582	2.88%	0.176%
91	14.598	2125	2127	2129	rBV	55676	57025	2.01%	0.123%
92	14.733	2148	2150	2153	rVB	94255	84077	2.97%	0.181%
93	14.768	2154	2156	2159	rBV2	60394	76746	2.71%	0.166%
94	14.921	2178	2182	2190	rBV	734860	1316457	46.49%	2.841%
95	15.027	2197	2200	2203	rBV	126781	132678	4.69%	0.286%
96	15.210	2228	2231	2237	rVB	419587	494378	17.46%	1.067%
97	15.274	2237	2242	2247	rBV	554438	722805	25.53%	1.560%
98	15.333	2247	2252	2255	rBV	832618	1068251	37.73%	2.306%
99	16.733	2485	2490	2500	rBV	215886	436653	15.42%	0.942%
100	17.157	2558	2562	2571	rVB	137037	262489	9.27%	0.567%

Sum of corrected areas: 46334364

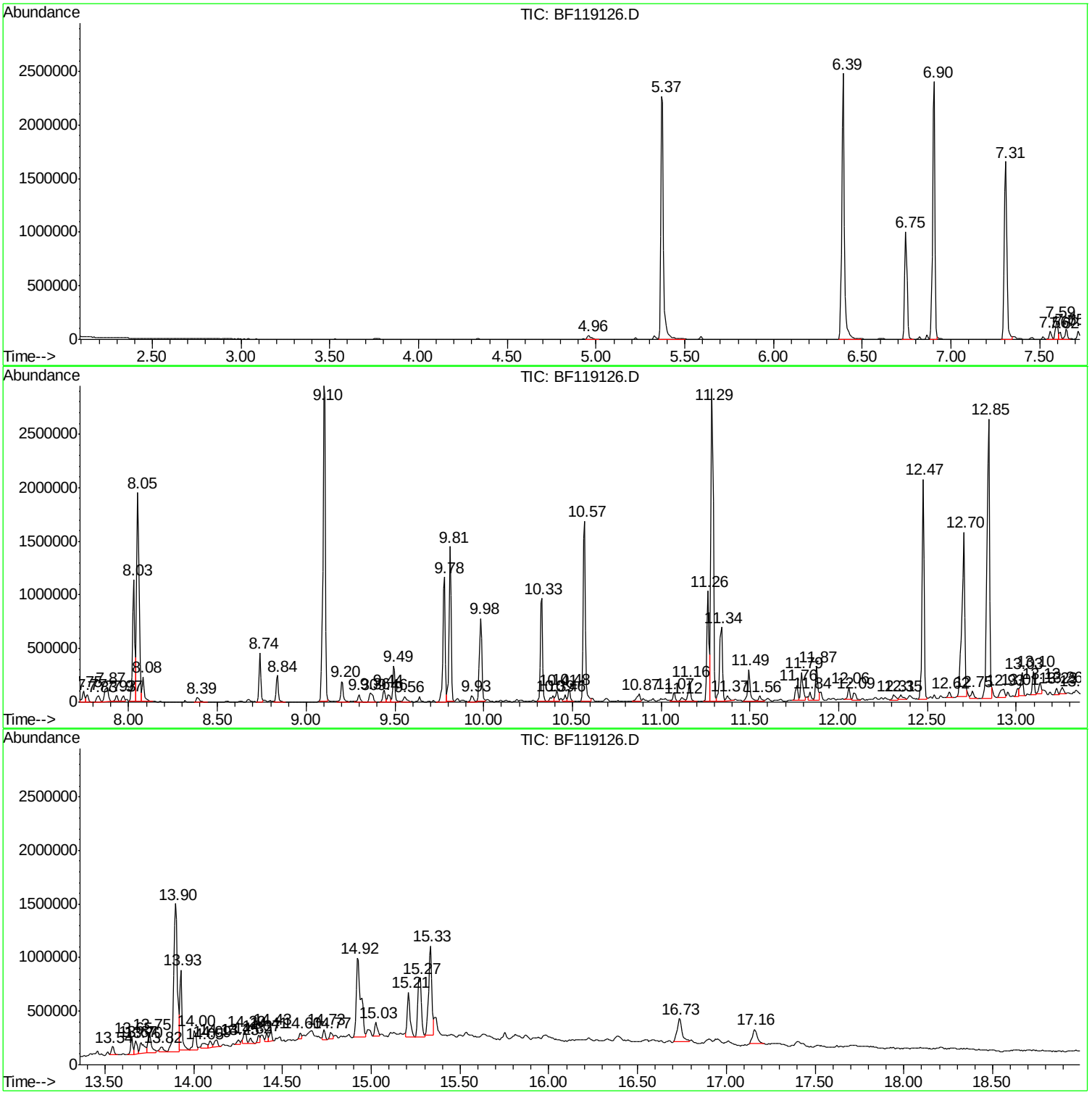
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022720\
Data File : BF119126.D
Acq On : 28 Feb 2020 00:03
Operator : CG/JU
Sample : L1696-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : FK-GF-02-052-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022020.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\BF022720\
Data File : BF119126.D
Acq On : 28 Feb 2020 00:03
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Instrument : BNA_F
ClientSampleId : FK-GF-02-052-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

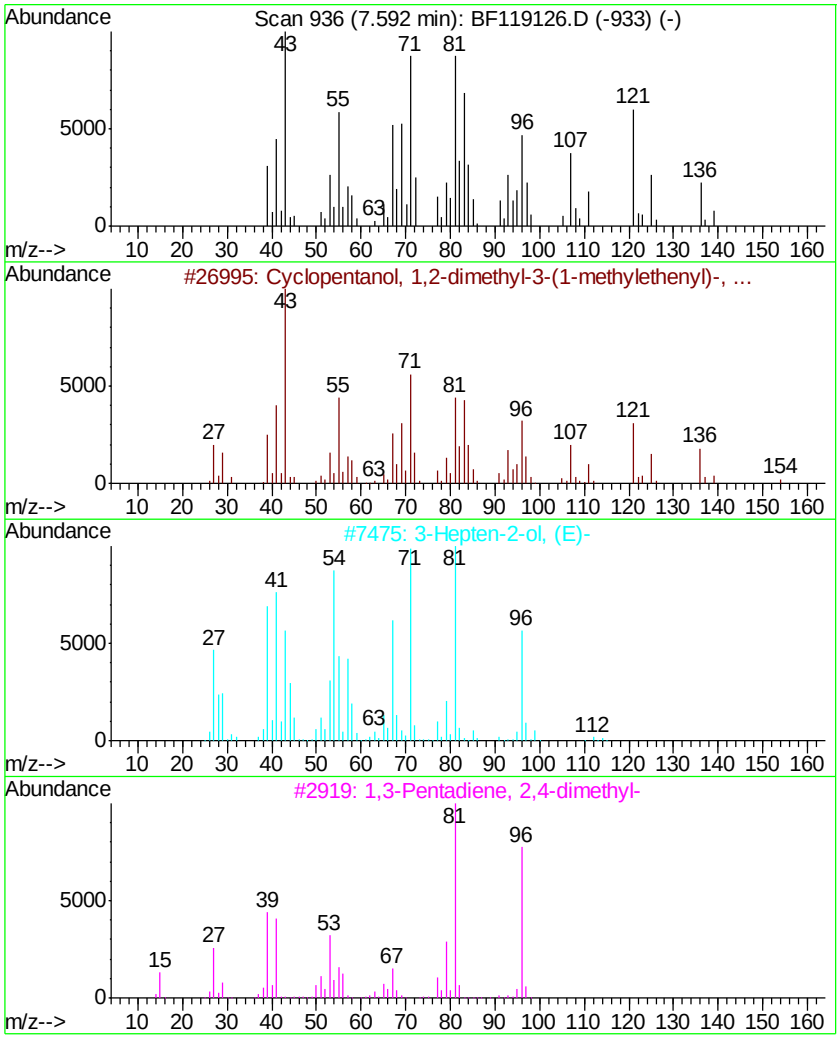
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

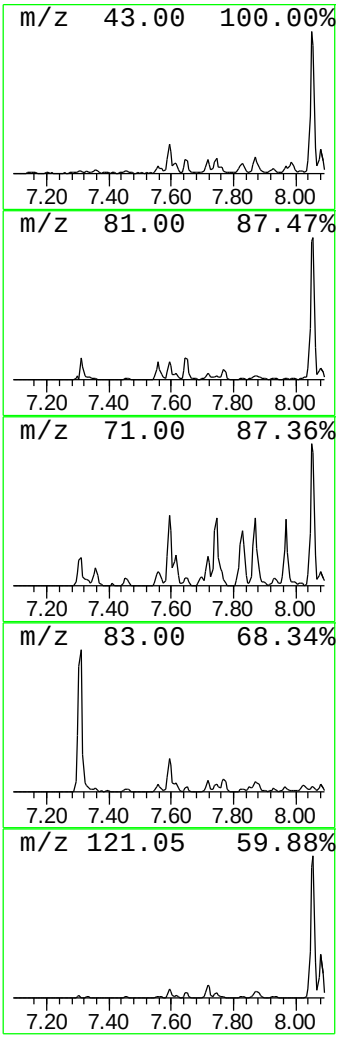
****

Peak Number 2 Cyclopentanol, 1,2-dimethyl... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.59	2.67 ng	149130	Naphthalene-d8	8.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentanol, 1,2-dimethyl-3-(1...	154	C10H18O	004028-60-8	58
2	3-Hepten-2-ol, (E)-	114	C7H14O	067077-39-8	43
3	1,3-Pentadiene, 2,4-dimethyl-	96	C7H12	001000-86-8	38
4	1,4-Hexadiene, 5-methyl-	96	C7H12	000763-88-2	38
5	Cyclohexanemethanol, chlorodiflu...	226	C9H13ClF2O2	1000376-25-9	35





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022720\
Data File : BF119126.D
Acq On : 28 Feb 2020 00:03
Operator : CG/JU
Sample : L1696-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : FK-GF-02-052-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

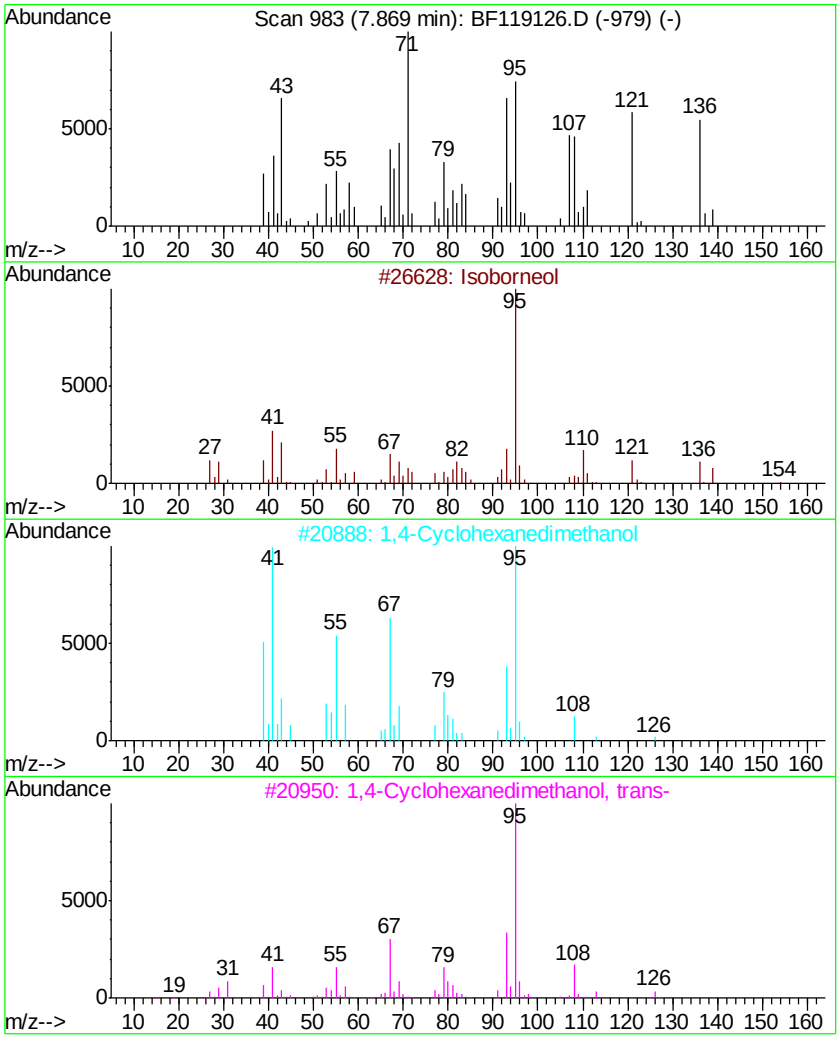
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

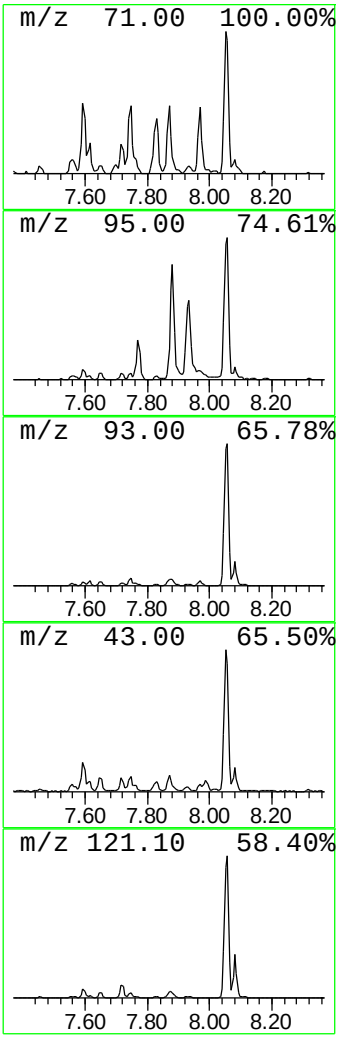
****

Peak Number 3 Isoborneol Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.87	3.28 ng	183345	Naphthalene-d8	8.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isoborneol	154	C10H18O	000124-76-5	50
2	1,4-Cyclohexanedimethanol	144	C8H16O2	000105-08-8	47
3	1,4-Cyclohexanedimethanol, trans-	144	C8H16O2	003236-48-4	47
4	Bicyclo[3.2.1]oct-3-en-2-one, 4-...	136	C9H12O	062702-89-0	47
5	Cyclopentene, 1,2,3-trimethyl-	110	C8H14	000473-91-6	43





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Instrument : BNA_F
ClientSampleId : FK-GF-02-052-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022020.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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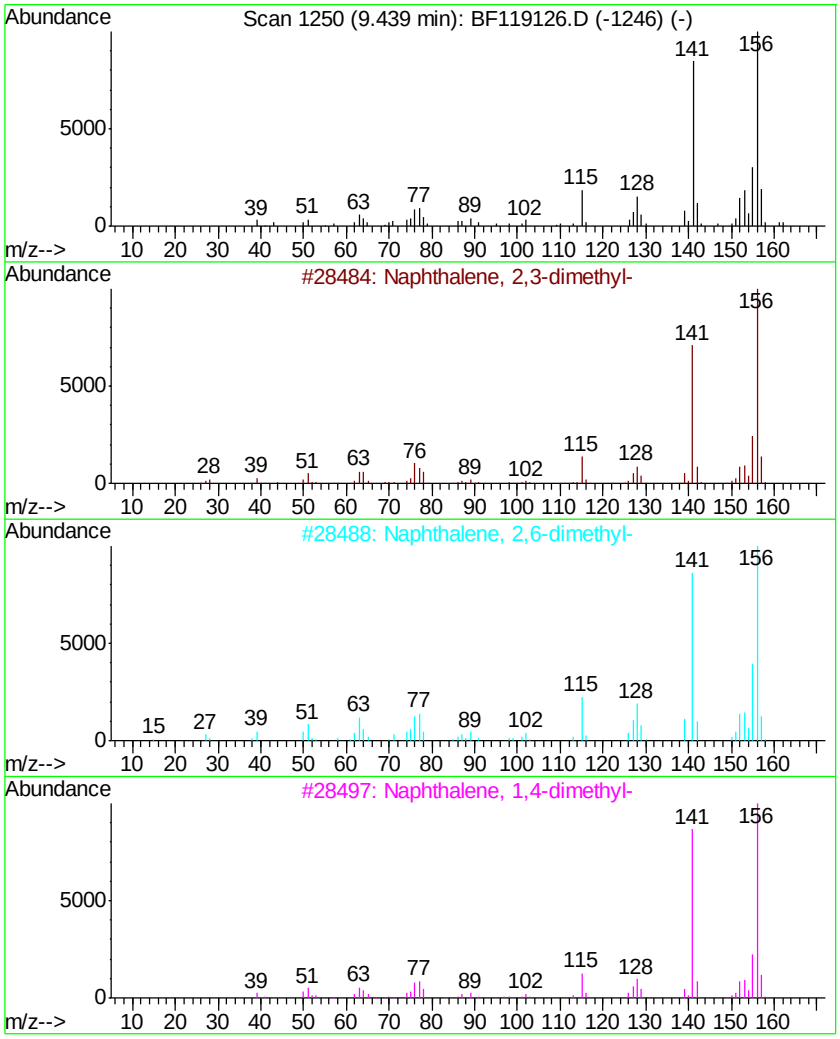
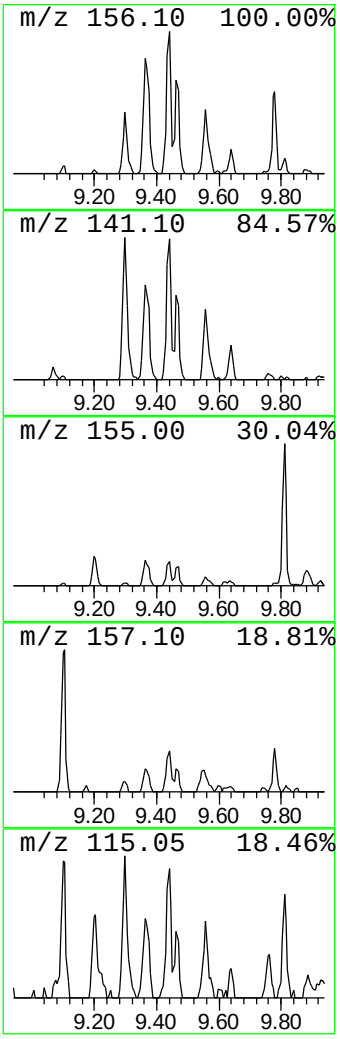
Peak Number 4 Naphthalene, 2,3-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.44	2.06 ng	117590	Acenaphthene-d10	9.78

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
3	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
4	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
5	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	95





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022720\
Data File : BF119126.D
Acq On : 28 Feb 2020 00:03
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Sample : L1696-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : FK-GF-02-052-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022020.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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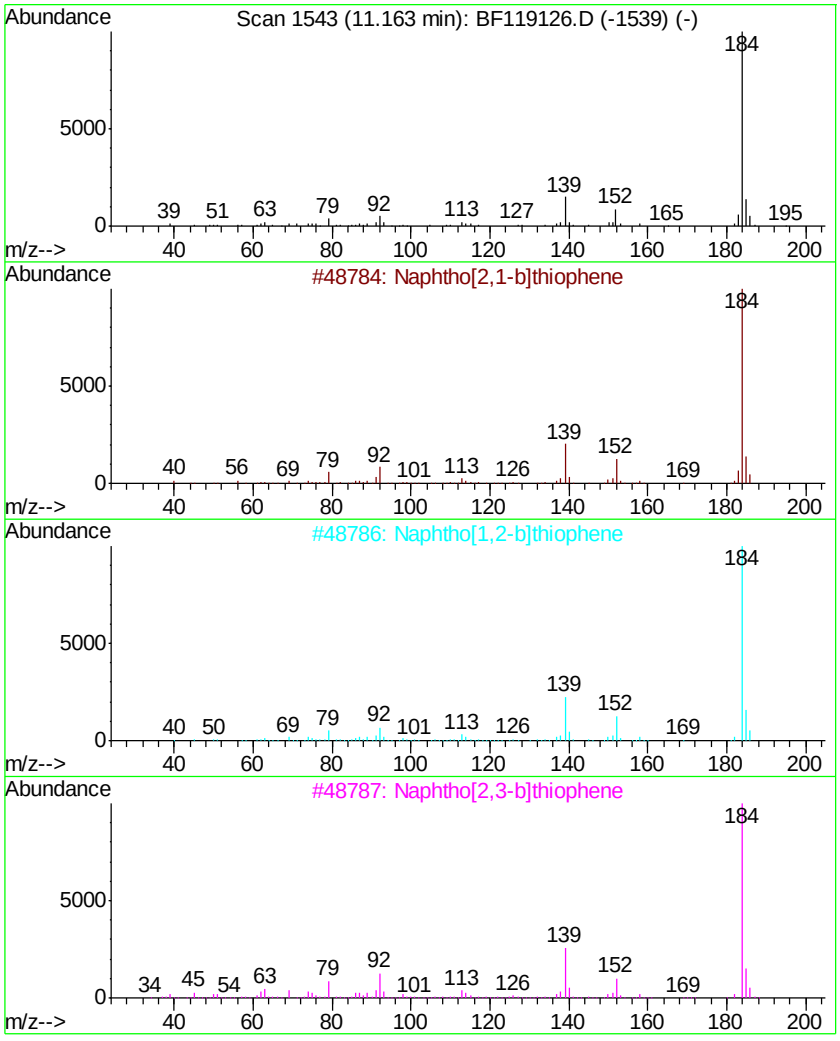
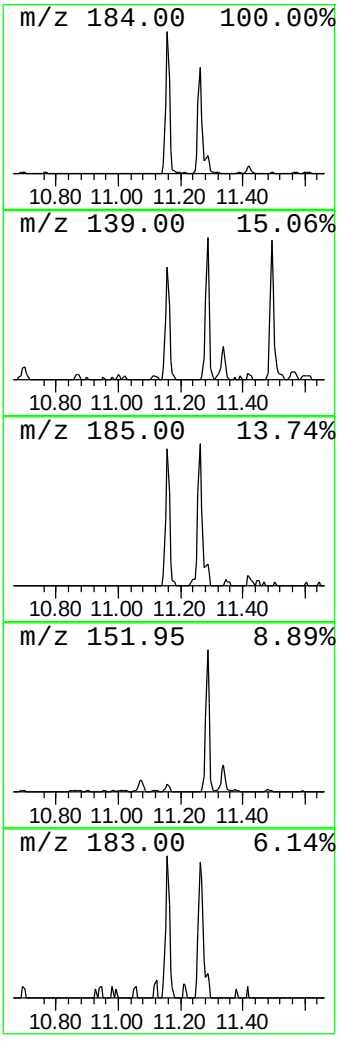
Peak Number 5 Naphtho[2,1-b]thiophene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.16	3.32 ng	170946	Phenanthrene-d10	11.26

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	97
2	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	95
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
4	Dibenzothiophene	184	C12H8S	000132-65-0	95
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	87





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022720\
Data File : BF119126.D
Acq On : 28 Feb 2020 00:03
Operator : CG/JU
Sample : L1696-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : FK-GF-02-052-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

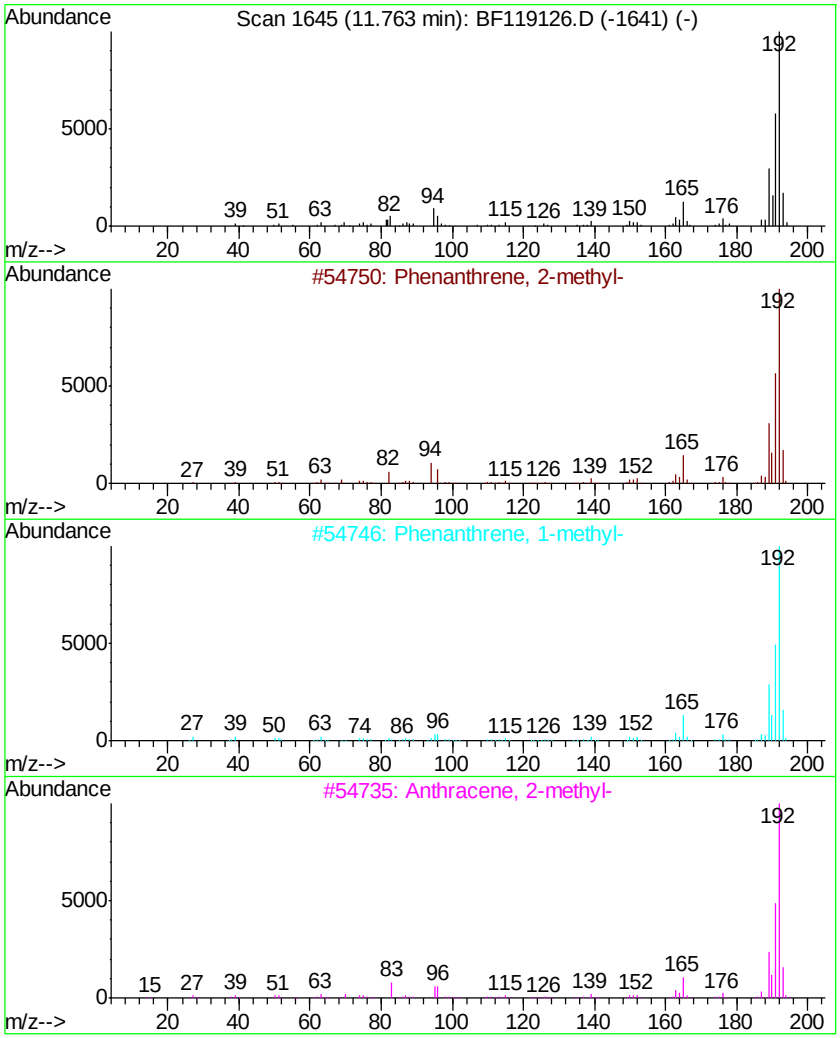
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

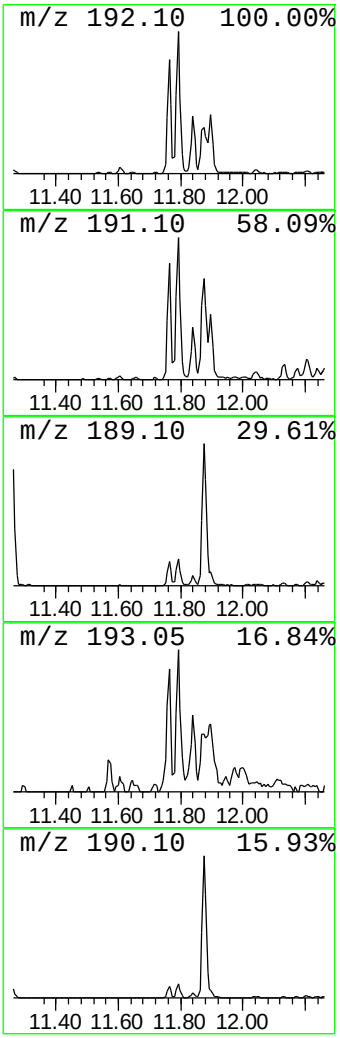
****

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.76	2.35 ng	121186	Phenanthrene-d10	11.26

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	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	94





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Data File : BF119126.D
Acq On : 28 Feb 2020 00:03
Operator : CG/JU
Sample : L1696-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : FK-GF-02-052-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022020.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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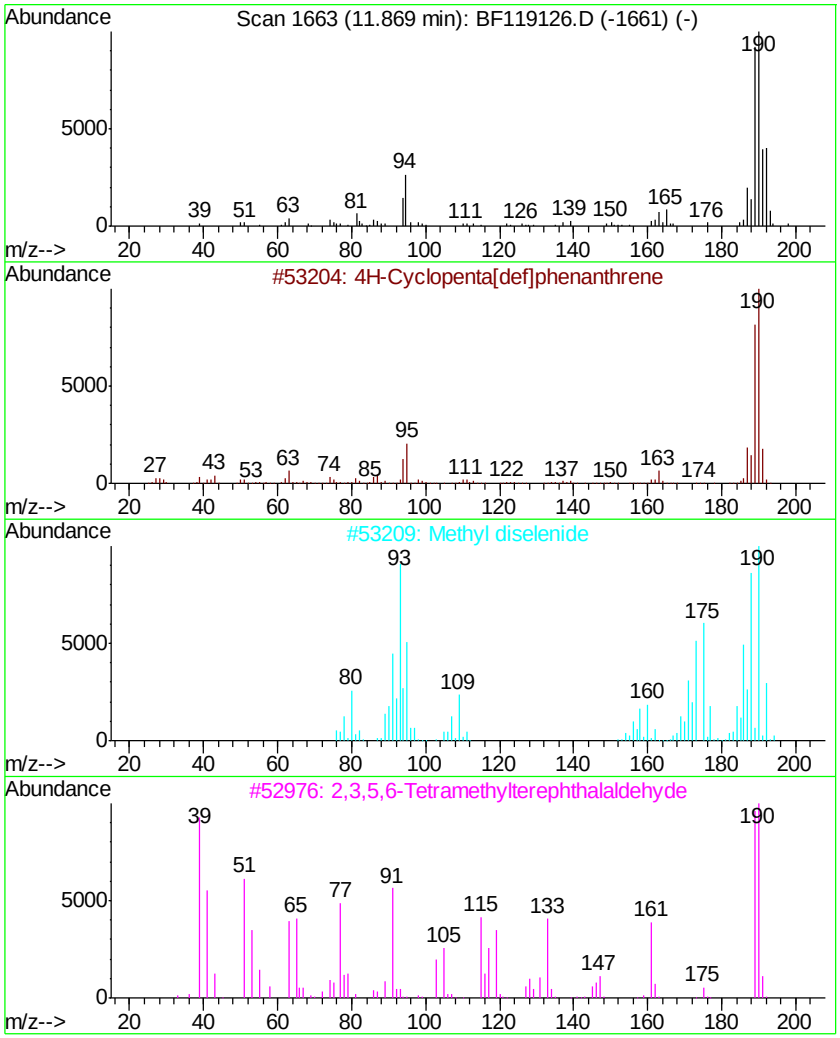
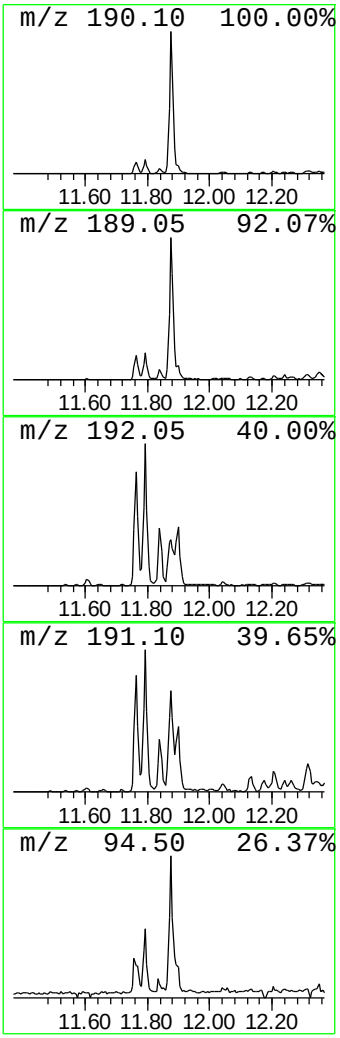
Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.87	6.40 ng	329210	Phenanthrene-d10	11.26

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	89
2	Methyl diselenide	190	C2H6Se2	007101-31-7	55
3	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
5	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	40





Library Search Compound Report

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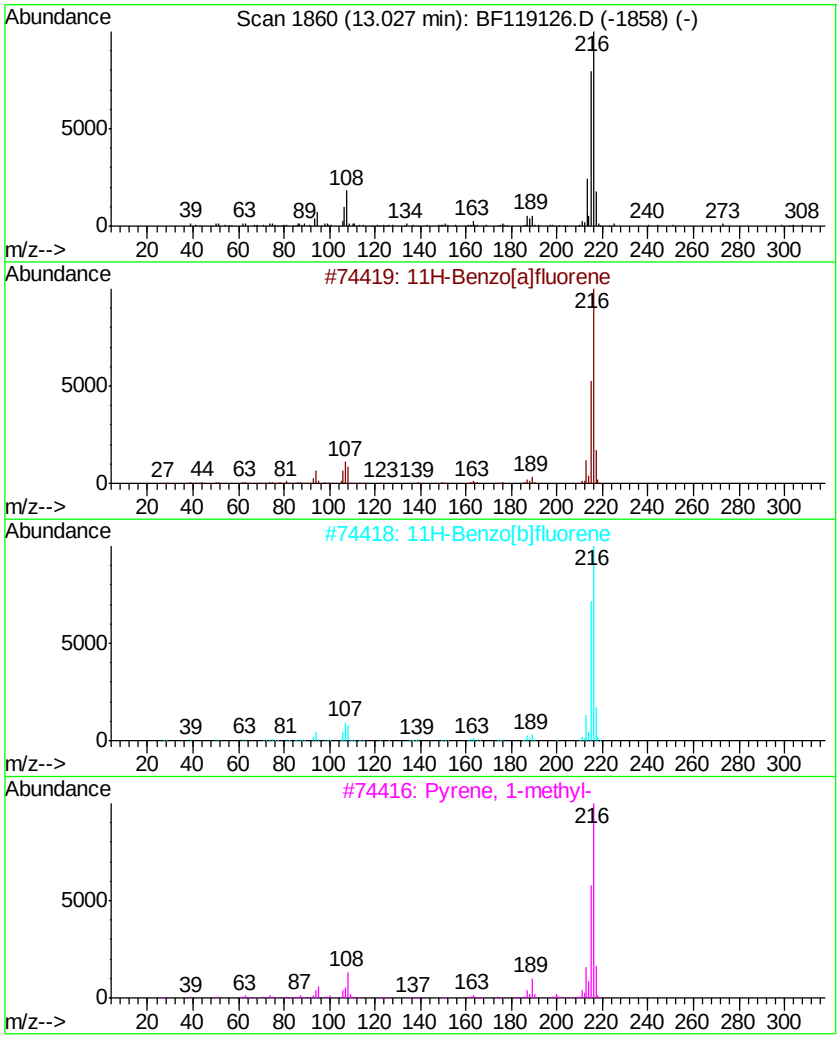
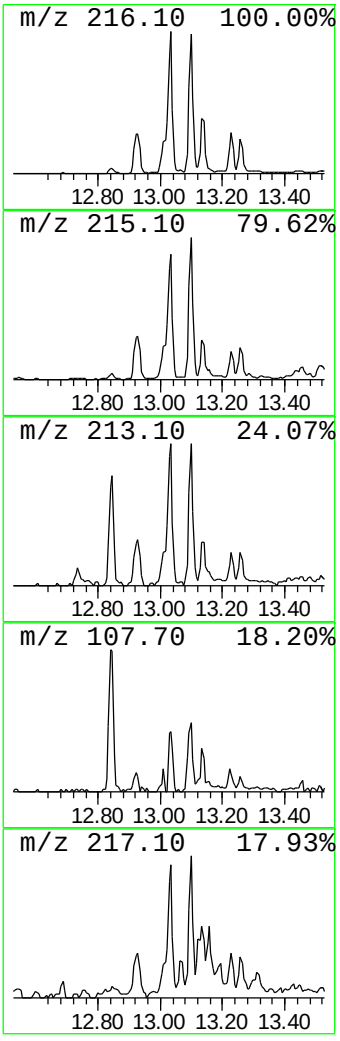
Peak Number 9 11H-Benzo[a]fluorene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.03	2.09 ng	215886	Chrysene-d12	13.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	94
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
4	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	87
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	80





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Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : FK-GF-02-052-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022020.M
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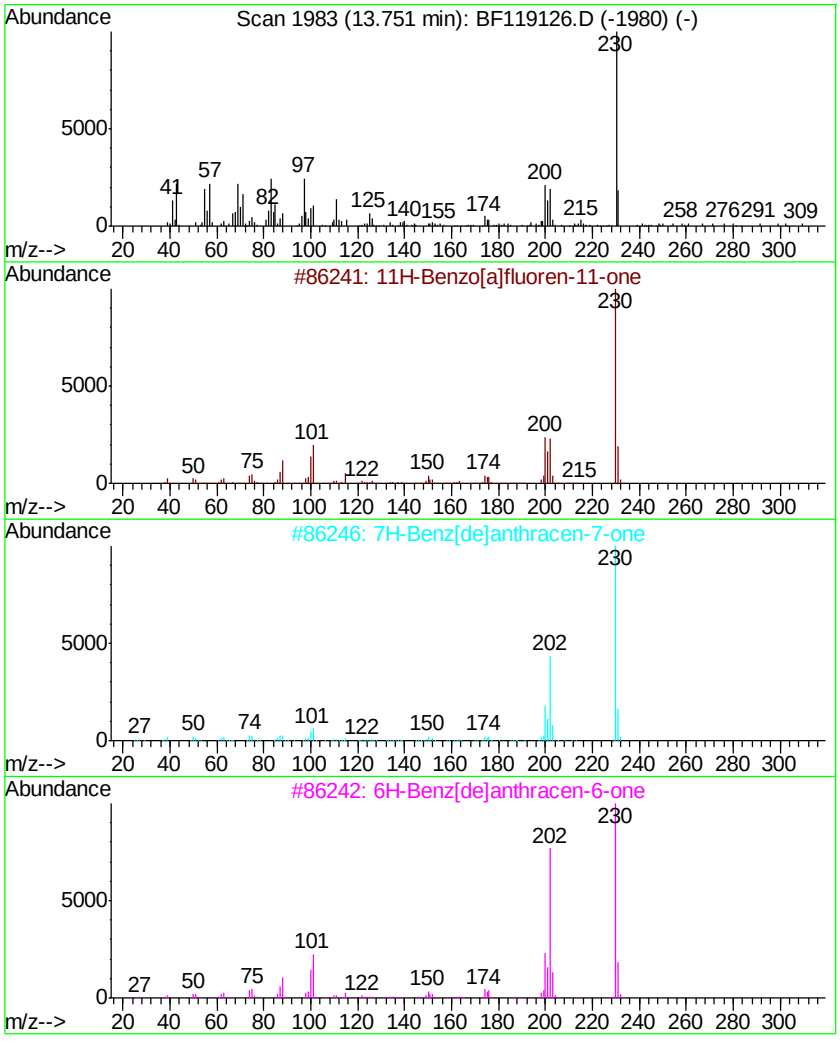
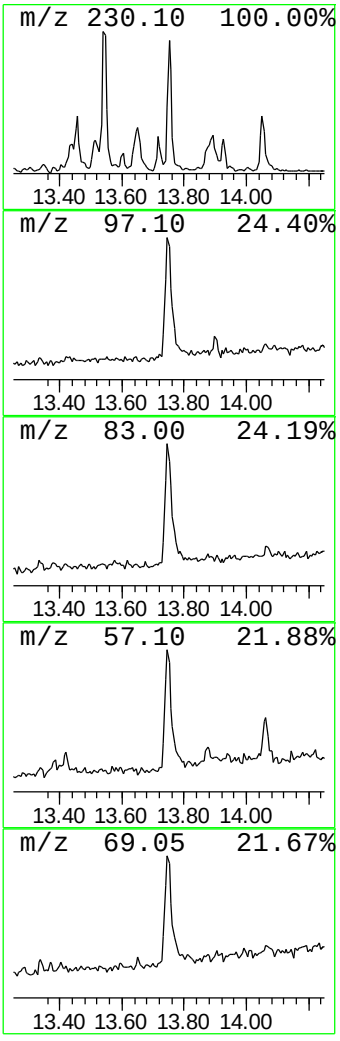
Peak Number 10 11H-Benzo[a]fluoren-11-one Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.75	2.55 ng	263470	Chrysene-d12	13.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	89
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	70
3	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	49
4	4-Pyrenecarbaldehyde	230	C17H10O	022245-51-8	40
5	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	40





Library Search Compound Report

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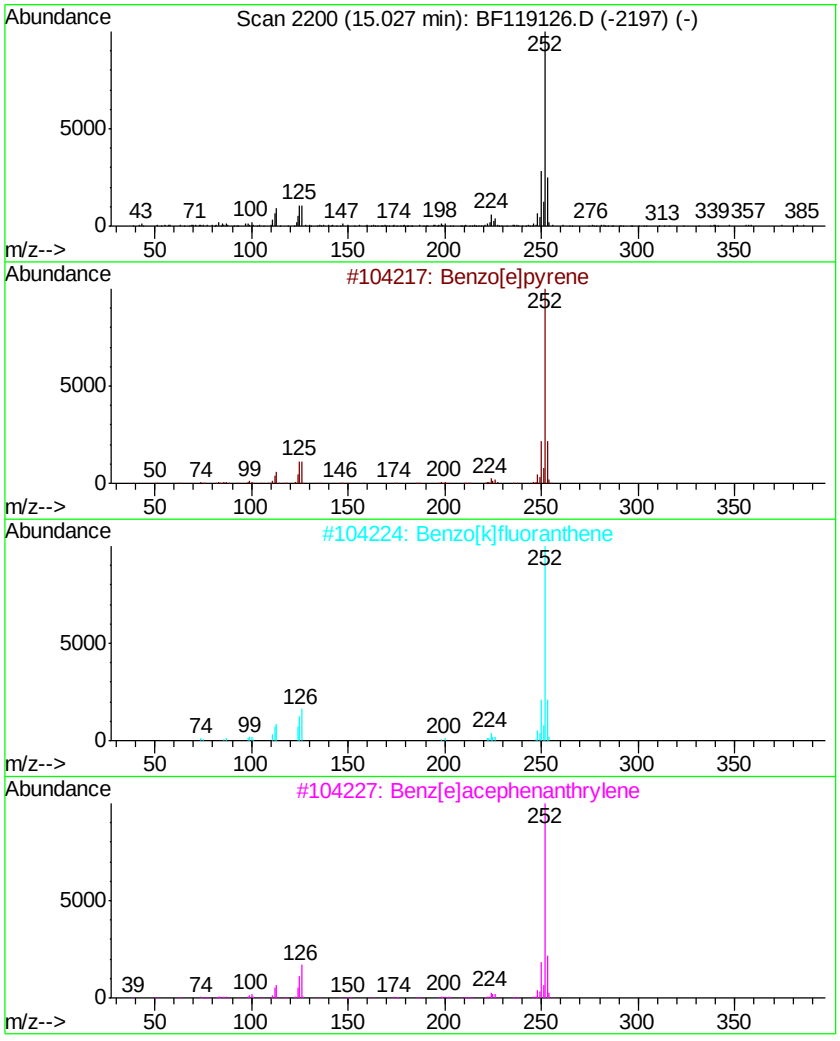
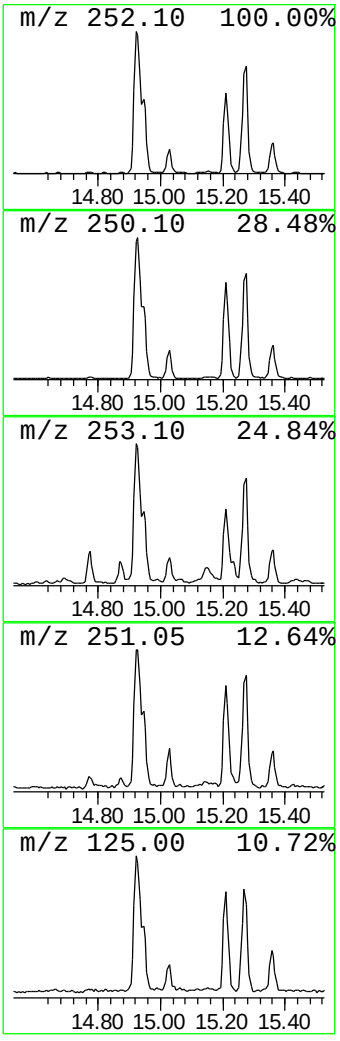
Peak Number 11 Benzo[e]pyrene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.03	2.48 ng	132678	Perylene-d12	15.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
4	Perylene	252	C20H12	000198-55-0	81
5	Benzo[a]pyrene	252	C20H12	000050-32-8	81





Tentatively Identified Compound (LSC) summary

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ClientSampleId : FK-GF-02-052-A

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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
Cyclopentanol, 1,...	7.59	2.7	ng	149130	2	8.03	1117080	20.0
Isoborneol	7.87	3.3	ng	183345	2	8.03	1117080	20.0
Naphthalene, 2,3-...	9.44	2.1	ng	117590	3	9.78	1142130	20.0
Naphtho[2,1-b]thi...	11.16	3.3	ng	170946	4	11.26	1029470	20.0
Phenanthrene, 2-m...	11.76	2.4	ng	121186	4	11.26	1029470	20.0
4H-Cyclopenta[def...	11.87	6.4	ng	329210	4	11.26	1029470	20.0
11H-Benzo[a]fluorene	13.03	2.1	ng	215886	5	13.90	2064800	20.0
11H-Benzo[a]fluor...	13.75	2.5	ng	263470	5	13.90	2064800	20.0
Benzo[e]pyrene	15.03	2.5	ng	132678	6	15.33	1068250	20.0