LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021119\
Data File : BF112483.D
Acq On : 11 Feb 2019 16:22
Operator : JU/SJ
Sample : K1450-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SHORE-RD-BOX-CULVERT-TP

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-BF012519.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	2.128	3	7	18	rVB	149631	214961	4.53%	0.425%
2	5.069	500	507	518	rBV	132728	233169	4.91%	0.461%
3	5.187	518	527	528	rBV4	32440	67942	1.43%	0.134%
4	5.304	540	547	554	rVB5	20004	47477	1.00%	0.094%
5	5.428	563	568	572	rBV2	29291	52908	1.11%	0.105%
6	5.475	572	576	591	rVB	3928791	3965866	83.55%	7.835%
7	6.486	743	748	765	rBV	3487299	4689596	98.80%	9.265%
8	6.610	765	769	773	rVV	4361260	4484792	94.49%	8.860%
9	6.669	775	779	784	rVV4	71828	102017	2.15%	0.202%
10	6.833	803	807	813	rVB	945136	898773	18.94%	1.776%
11	6.992	829	834	837	rBV	3519706	3445195	72.58%	6.806%
12	7.098	850	852	856	rVB2	50539	54861	1.16%	0.108%
13	7.222	870	873	876	rBV2	54732	56911	1.20%	0.112%
14	7.269	876	881	891	rVB7	38189	84693	1.78%	0.167%
15	7.363	891	897	899	rBV2	88045	118512	2.50%	0.234%
16	7.398	899	903	906	rBV	2638251	2611152	55.01%	5.159%
17	7.475	912	916	919	rVB4	52941	70889	1.49%	0.140%
18	7.686	949	952	955	rBV	62045	63857	1.35%	0.126%
19	7.751	961	963	967	rVB3	63295	56616	1.19%	0.112%
20	7.851	977	980	982	rBV2	61967	58544	1.23%	0.116%
21	7.928	989	993	999	rVB7	36999	63524	1.34%	0.126%
22	7.980	999	1002	1006	rBV2	41057	51768	1.09%	0.102%
23	8.116	1019	1025	1031	rBV	1163179	1275451	26.87%	2.520%
24	8.328	1056	1061	1066	rVB2	95947	122717	2.59%	0.242%
25	8.386	1068	1071	1078	rVV	115554	139214	2.93%	0.275%
26	8.533	1092	1096	1098	rBV	84495	92245	1.94%	0.182%
27	8.927	1159	1163	1167	rVB	61135	67323	1.42%	0.133%
28	9.127	1195	1197	1202	rVB	99336	97336	2.05%	0.192%
29	9.186	1202	1207	1211	rBV	4679475	4746459	100.00%	9.377%
30	9.263	1217	1220	1224	rBV4	56108	68960	1.45%	0.136%
31	9.527	1262	1265	1268	rBV	56165	67862	1.43%	0.134%
32	9.580	1271	1274	1282	rVB	542181	531566	11.20%	1.050%
33	9.727	1296	1299	1302	rBV	105673	110029	2.32%	0.217%
34	9.869	1315	1323	1327	rBV	1442642	1335997	28.15%	2.639%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021119\
Data File : BF112483.D
Acq On : 11 Feb 2019 16:22
Operator : JU/SJ
Sample : K1450-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SHORE-RD-BOX-CULVERT-TP

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-BF012519.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	9.898	1327	1328	1332	rVB2	72270	58941	1.24%	0.116%
36	10.016	1345	1348	1352	rBV3	48376	59862	1.26%	0.118%
37	10.186	1373	1377	1380	rBV3	37033	52535	1.11%	0.104%
38	10.274	1388	1392	1394	rBV2	51690	73535	1.55%	0.145%
39	10.416	1413	1416	1422	rVB2	99065	109546	2.31%	0.216%
40	10.516	1429	1433	1437	rVB4	29999	50574	1.07%	0.100%
41	10.663	1454	1458	1471	rVV	3098114	2988849	62.97%	5.905%
42	10.780	1473	1478	1484	rVB5	69130	119818	2.52%	0.237%
43	10.969	1505	1510	1512	rBV2	52876	74984	1.58%	0.148%
44	11.251	1554	1558	1563	rVB2	57558	76559	1.61%	0.151%
45	11.357	1572	1576	1578	rBV	1306253	1094122	23.05%	2.162%
46	11.380	1578	1580	1586	rVB	712922	568904	11.99%	1.124%
47	11.433	1586	1589	1592	rBV	254964	211547	4.46%	0.418%
48	11.592	1612	1616	1620	rBV5	46313	92607	1.95%	0.183%
49	11.857	1659	1661	1663	rBV	130077	121575	2.56%	0.240%
50	11.880	1663	1665	1672	rVV3	438412	603443	12.71%	1.192%
51	11.939	1672	1675	1678	rVV2	329016	409221	8.62%	0.808%
52	11.974	1678	1681	1683	rVV3	468840	589629	12.42%	1.165%
53	12.021	1686	1689	1695	rVV3	232096	446008	9.40%	0.881%
54	12.068	1695	1697	1699	rVV2	215968	249473	5.26%	0.493%
55	12.092	1699	1701	1704	rVV2	231055	296150	6.24%	0.585%
56	12.145	1708	1710	1715	rVV2	386847	533696	11.24%	1.054%
57	12.192	1715	1718	1726	rVB	209237	298419	6.29%	0.590%
58	12.410	1753	1755	1758	rBV	96905	90986	1.92%	0.180%
59	12.574	1779	1783	1786	rBV	1133487	966584	20.36%	1.910%
60	12.604	1786	1788	1791	rVV3	85348	90193	1.90%	0.178%
61	12.663	1795	1798	1805	rVV2	219677	251549	5.30%	0.497%
62	12.804	1816	1822	1825	rBV	1030696	1065427	22.45%	2.105%
63	12.857	1828	1831	1834	rVB2	50628	54055	1.14%	0.107%
64	12.939	1840	1845	1848	rBV	3732361	3370522	71.01%	6.659%
65	12.968	1848	1850	1854	rVB3	54616	61318	1.29%	0.121%
66	13.027	1858	1860	1865	rVB4	88145	106268	2.24%	0.210%
67	13.110	1871	1874	1875	rBV2	86077	93779	1.98%	0.185%
68	13.133	1875	1878	1880	rVV2	178593	184975	3.90%	0.365%
69	13.157	1880	1882	1886	rVV4	70749	84385	1.78%	0.167%
70	13.198	1886	1889	1893	rVV2	136579	141888	2.99%	0.280%
71	13.239	1893	1896	1898	rVB2	73758	69635	1.47%	0.138%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021119\
Data File : BF112483.D
Acq On : 11 Feb 2019 16:22
Operator : JU/SJ
Sample : K1450-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SHORE-RD-BOX-CULVERT-TP

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-BF012519.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.327	1909	1911	1914	rVB	84557	63799	1.34%	0.126%
73	13.362	1914	1917	1921	rBV	85875	107940	2.27%	0.213%
74	13.774	1985	1987	1990	rVB	72481	60357	1.27%	0.119%
75	13.804	1990	1992	1993	rBV	69737	54632	1.15%	0.108%
76	13.827	1993	1996	2000	rVB3	212527	229578	4.84%	0.454%
77	13.962	2017	2019	2021	rBV	91649	81163	1.71%	0.160%
78	14.004	2021	2026	2028	rVV2	1060712	1334851	28.12%	2.637%
79	14.027	2028	2030	2034	rVB	421592	381722	8.04%	0.754%
80	14.109	2042	2044	2048	rBV3	75969	78833	1.66%	0.156%
81	15.051	2200	2204	2206	rBV	299242	396604	8.36%	0.784%
82	15.351	2252	2255	2261	rVB	223800	264099	5.56%	0.522%
83	15.415	2262	2266	2270	rBV	302107	385177	8.12%	0.761%
84	15.474	2271	2276	2280	rBV	609509	776671	16.36%	1.534%
85	16.962	2525	2529	2536	rVB2	152174	284672	6.00%	0.562%
86	17.415	2603	2606	2613	rVB2	86703	155731	3.28%	0.308%

Sum of corrected areas: 50616572

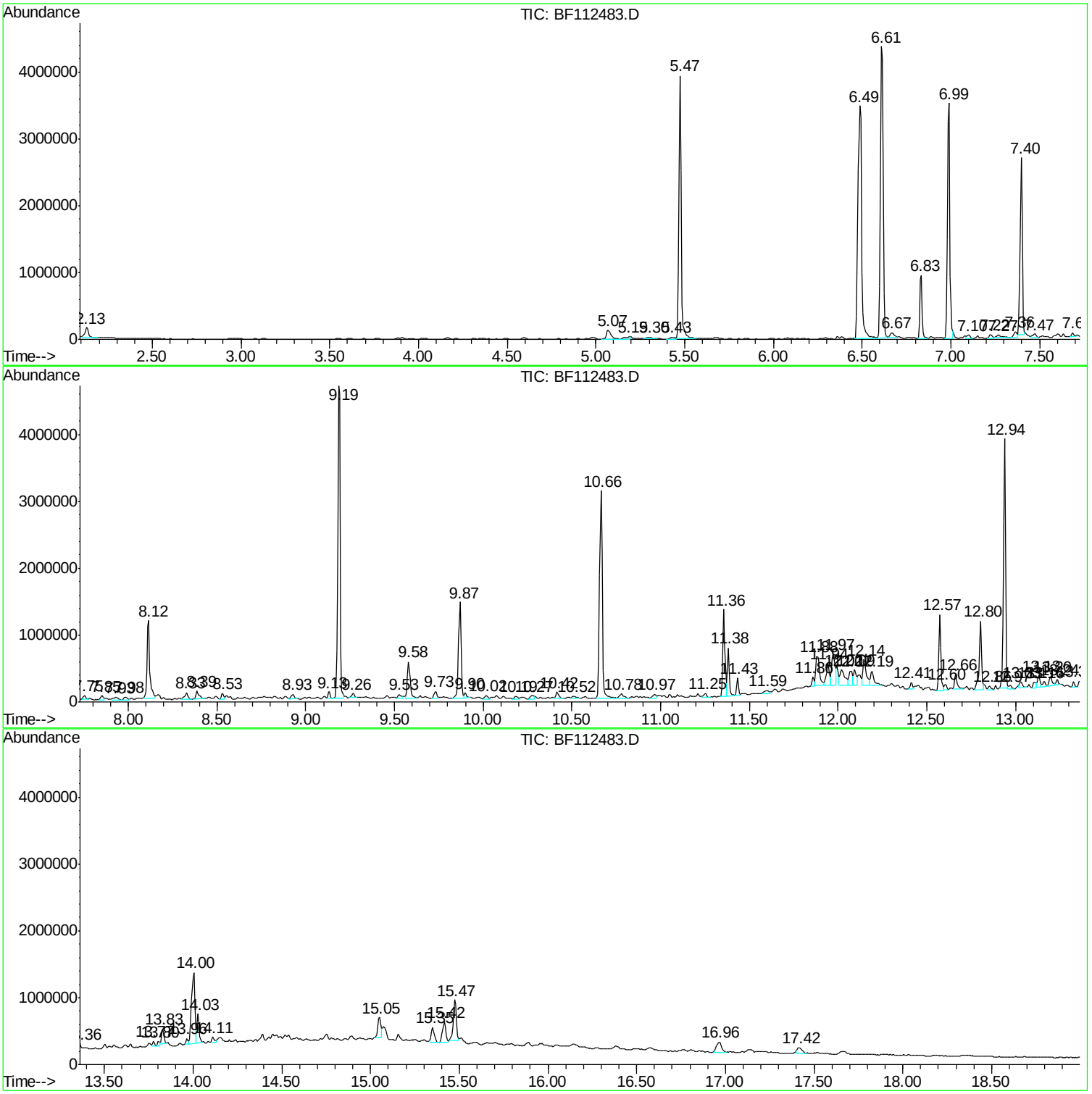
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021119\
Data File : BF112483.D
Acq On : 11 Feb 2019 16:22
Operator : JU/SJ
Sample : K1450-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SHORE-RD-BOX-CULVERT-TP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.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\BF021119\
Data File : BF112483.D
Acq On : 11 Feb 2019 16:22
Operator : JU/SJ
Sample : K1450-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SHORE-RD-BOX-CULVERT-TP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

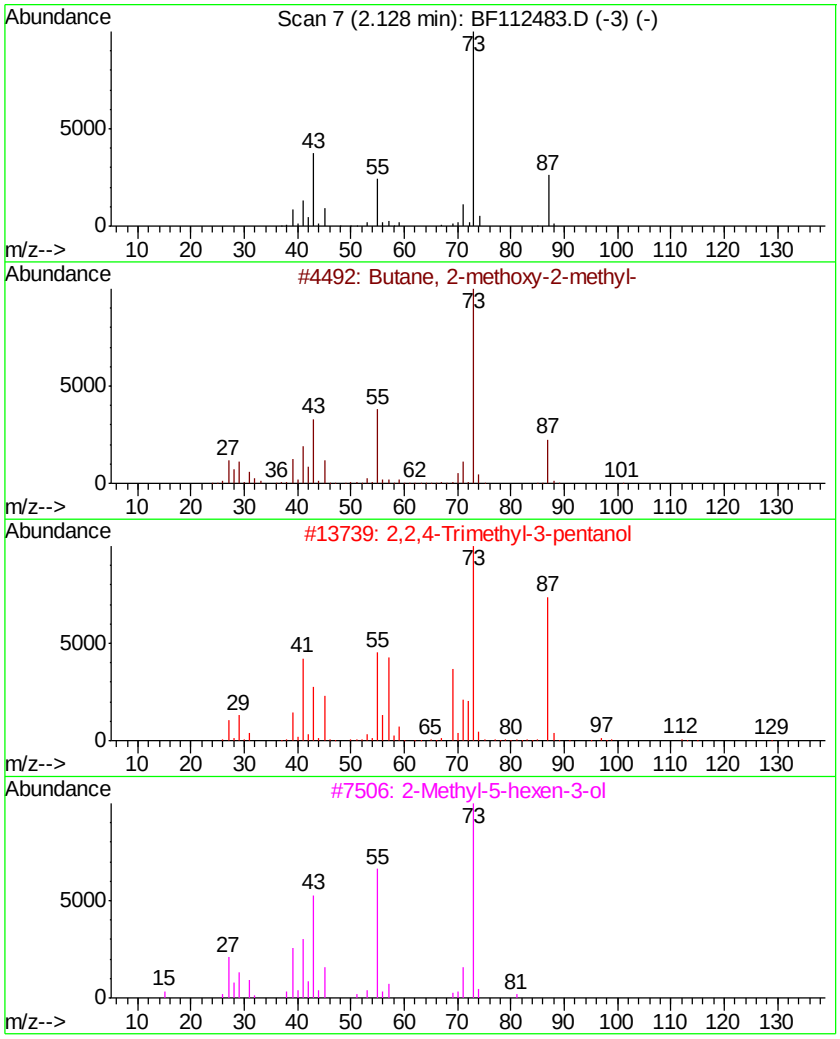
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

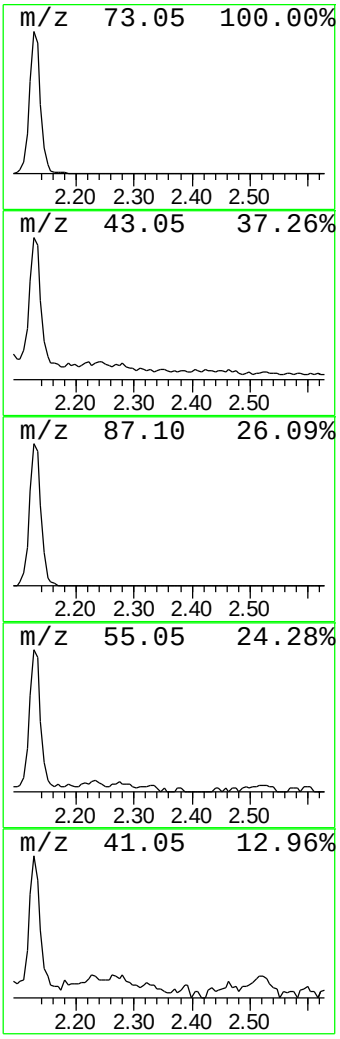
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.13	4.78 ng	214961	1,4-Dichlorobenzene-d4	6.83

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	39
3	2-Methyl-5-hexen-3-ol	114	C7H14O	032815-70-6	37
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	37
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	23





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021119\
Data File : BF112483.D
Acq On : 11 Feb 2019 16:22
Operator : JU/SJ
Sample : K1450-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SHORE-RD-BOX-CULVERT-TP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

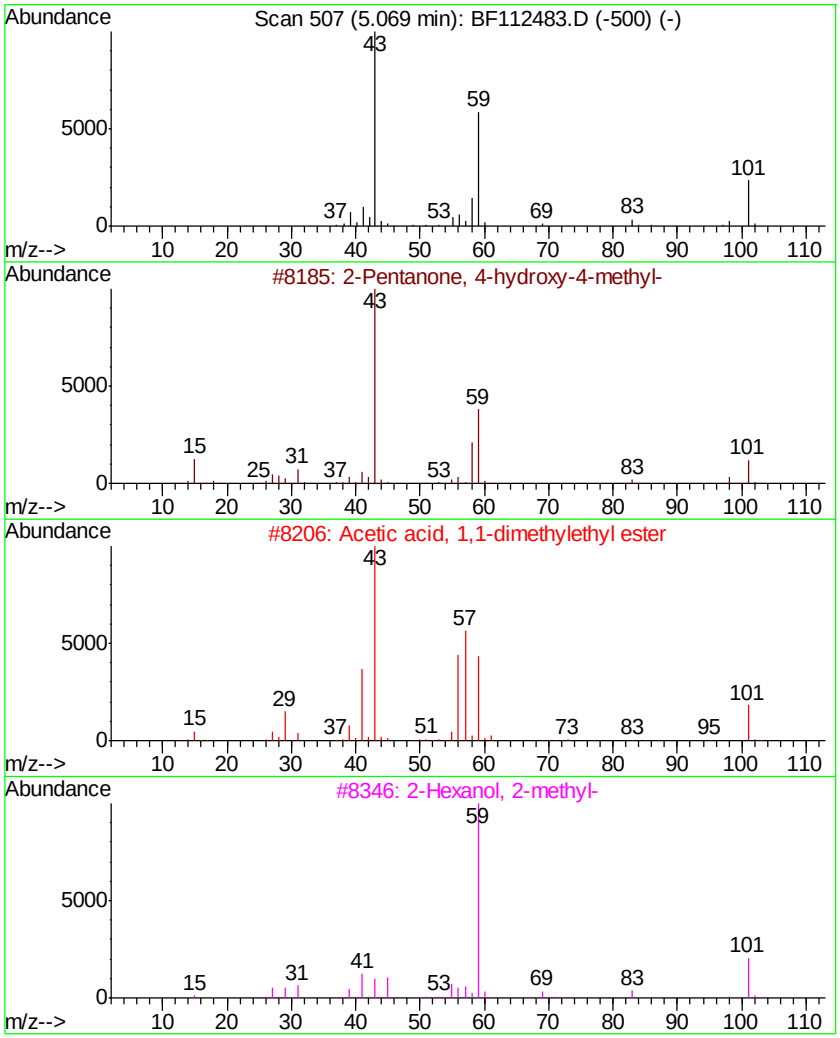
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

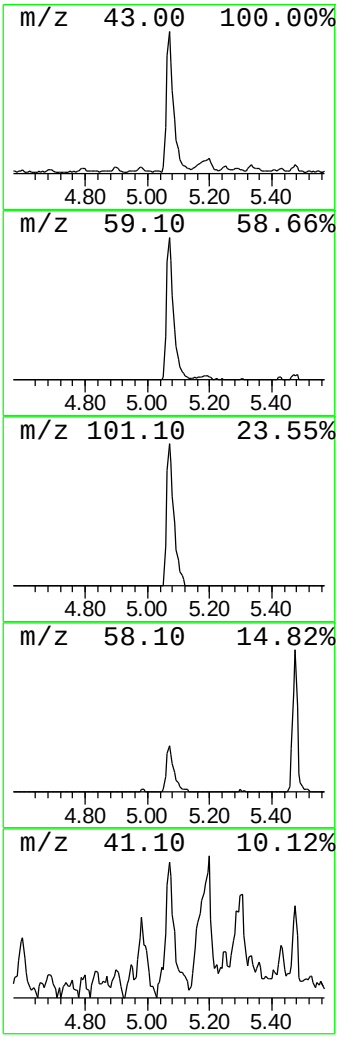
****

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.07	5.19 ng	233169	1,4-Dichlorobenzene-d4	6.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	39
3	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	28
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	17
5	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	17





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021119\
Data File : BF112483.D
Acq On : 11 Feb 2019 16:22
Operator : JU/SJ
Sample : K1450-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SHORE-RD-BOX-CULVERT-TP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

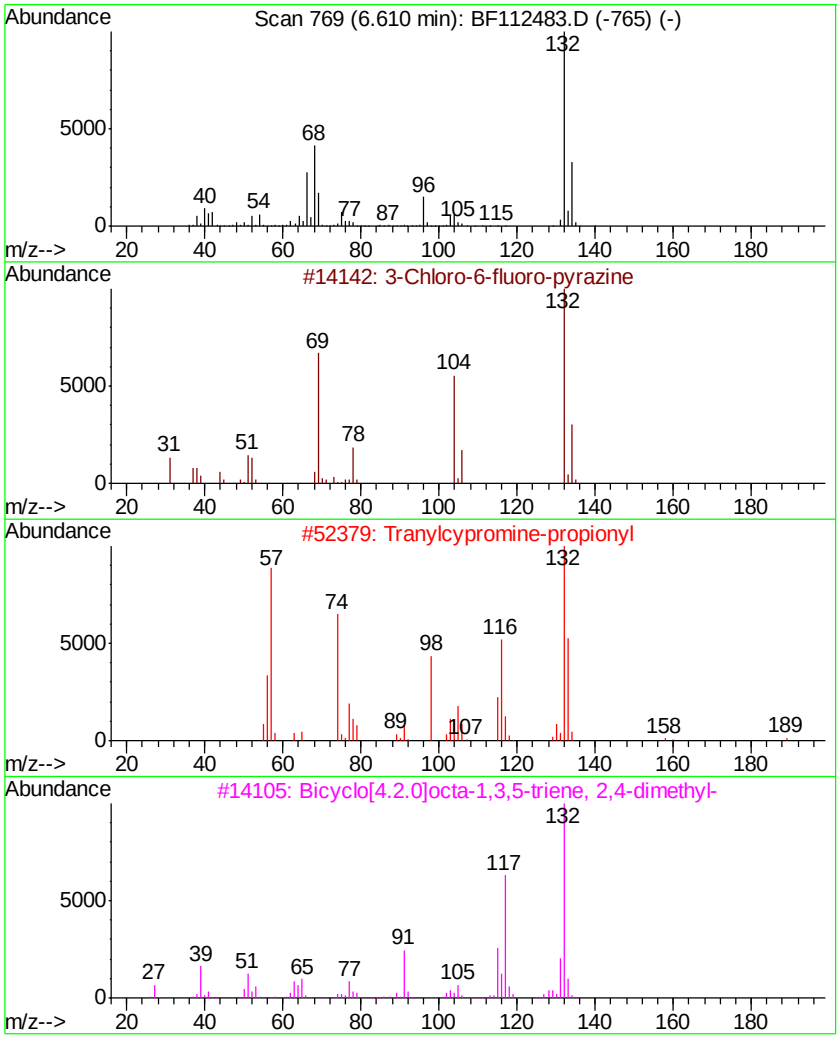
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

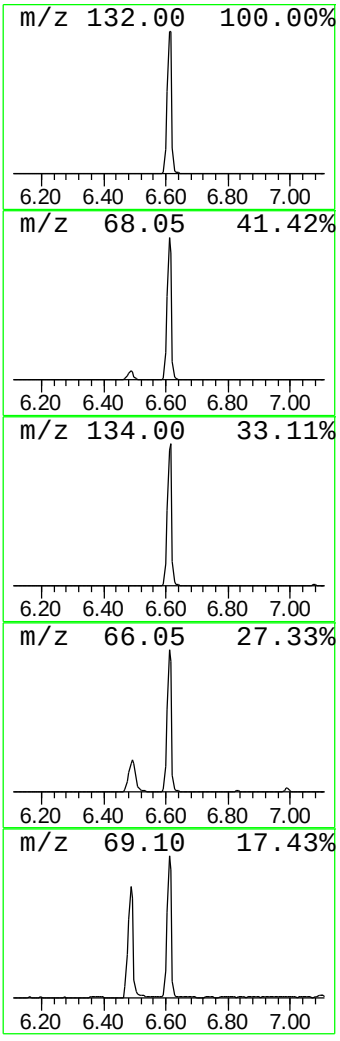
****

Peak Number 3 unknown6.61 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.61	99.80 ng	4484790	1,4-Dichlorobenzene-d4	6.83

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





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021119\
Data File : BF112483.D
Acq On : 11 Feb 2019 16:22
Operator : JU/SJ
Sample : K1450-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SHORE-RD-BOX-CULVERT-TP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.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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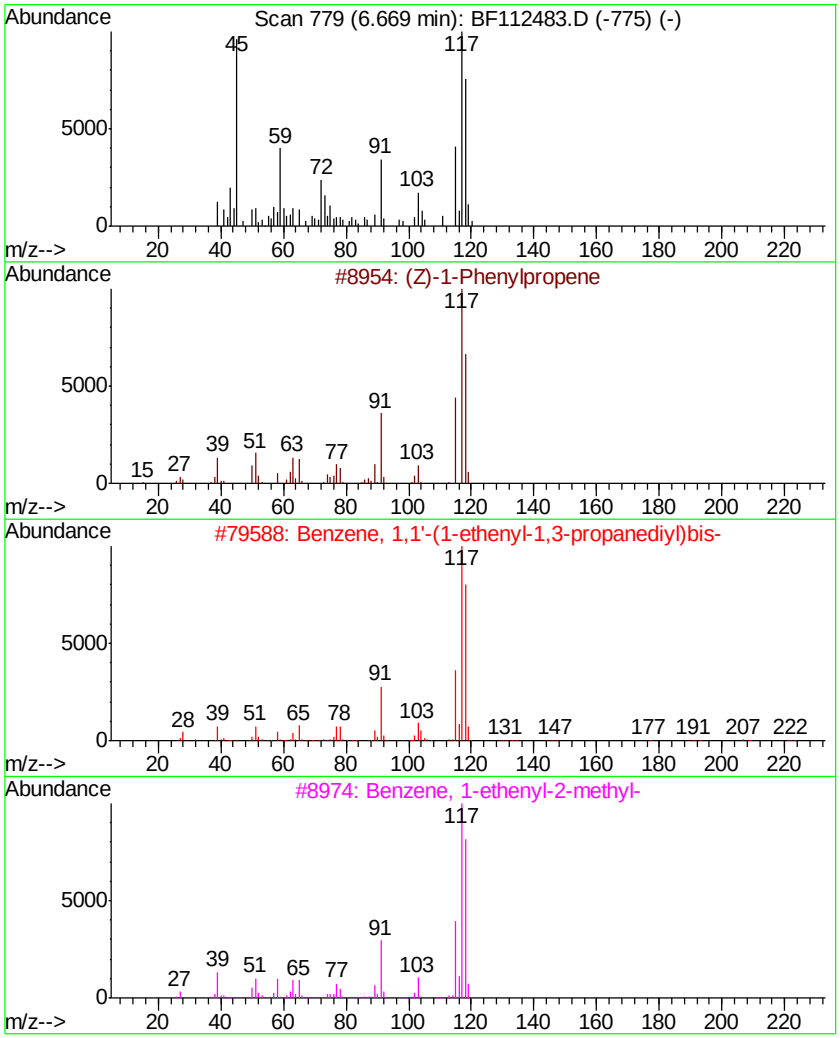
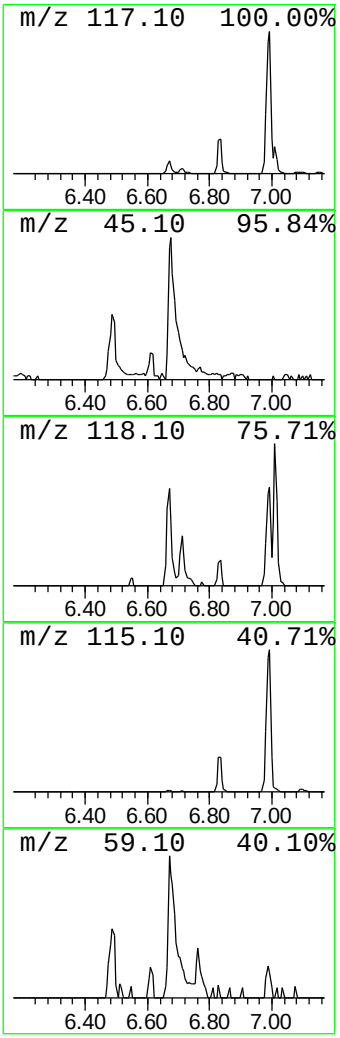
Peak Number 4 unknown6.67 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.67	2.27 ng	102017	1,4-Dichlorobenzene-d4	6.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(Z)-1-Phenylpropene	118	C9H10	000766-90-5	46
2	Benzene, 1,1'-(1-ethenyl-1,3-pro...	222	C17H18	061141-97-7	46
3	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	46
4	Benzene, 1-propenyl-	118	C9H10	000637-50-3	46
5	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	41





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021119\
Data File : BF112483.D
Acq On : 11 Feb 2019 16:22
Operator : JU/SJ
Sample : K1450-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SHORE-RD-BOX-CULVERT-TP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

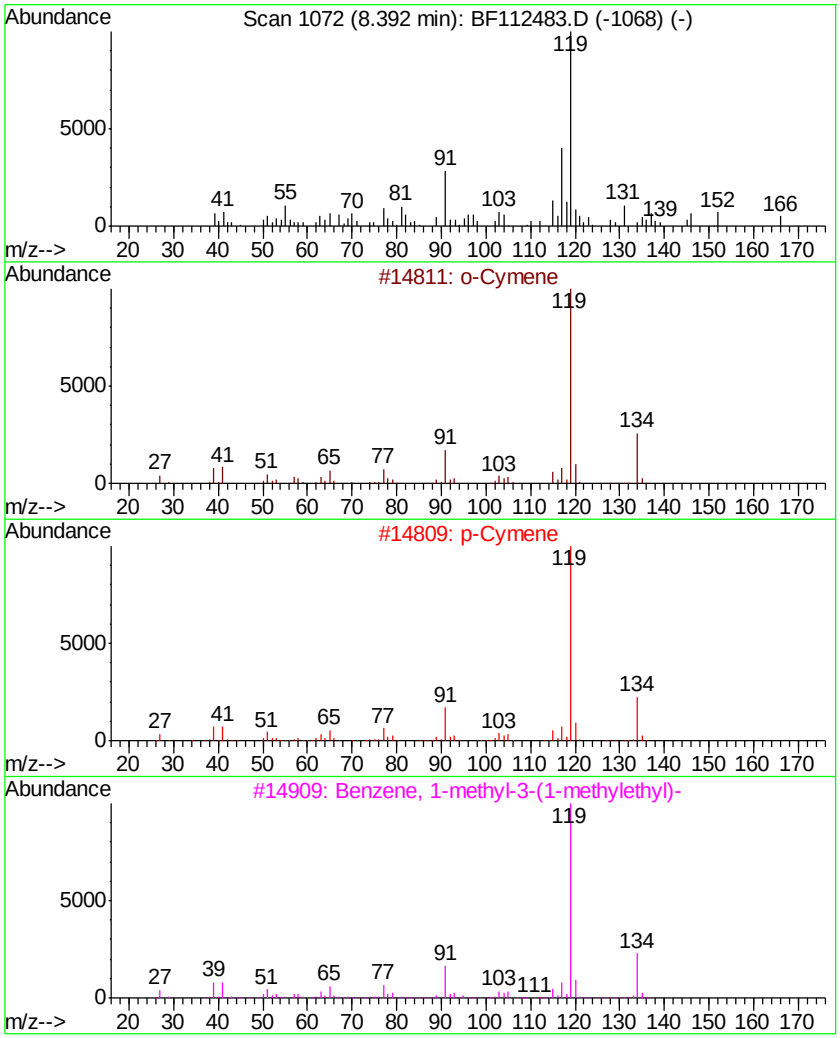
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

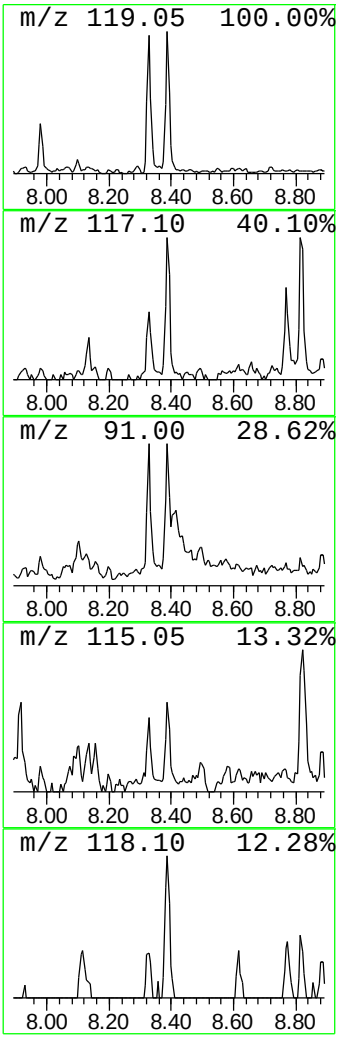
****

Peak Number 6 o-Cymene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.39	2.18 ng	139214	Naphthalene-d8	8.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cymene	134	C10H14	000527-84-4	70
2	p-Cymene	134	C10H14	000099-87-6	62
3	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	58
4	1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	58
5	Benzene, 4-(chloromethyl)-1,2-di...	154	C9H11Cl	000102-46-5	53





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021119\
Data File : BF112483.D
Acq On : 11 Feb 2019 16:22
Operator : JU/SJ
Sample : K1450-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SHORE-RD-BOX-CULVERT-TP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

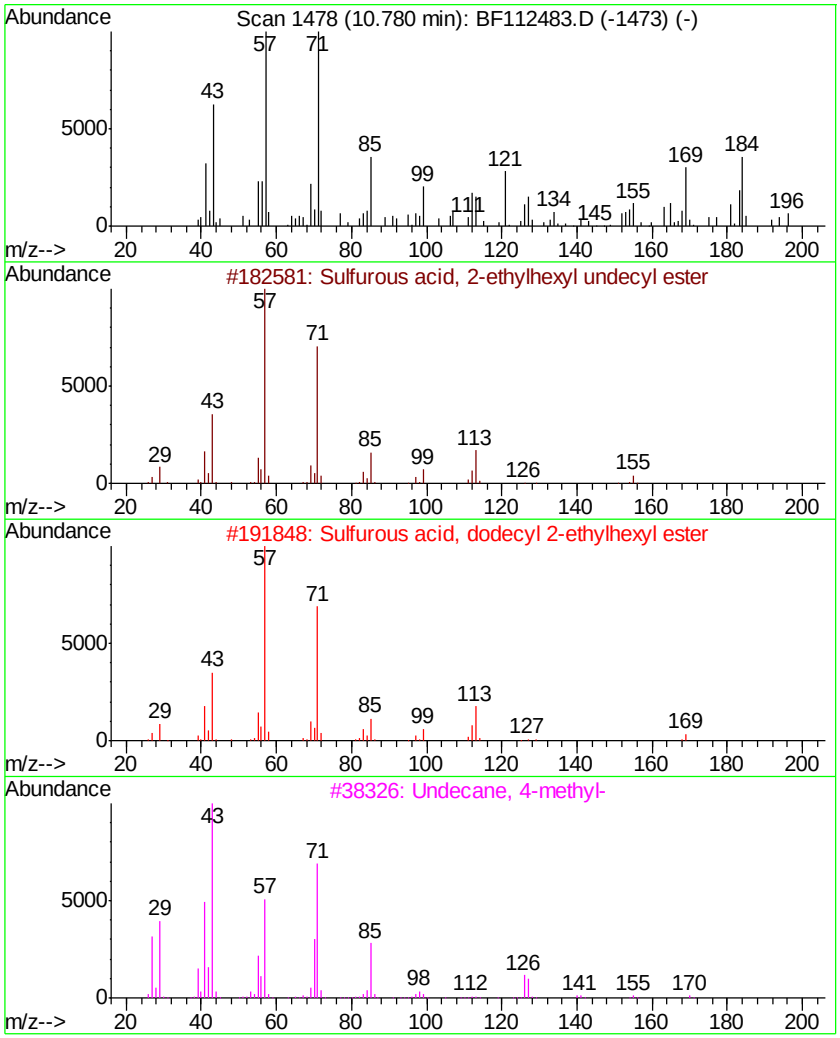
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

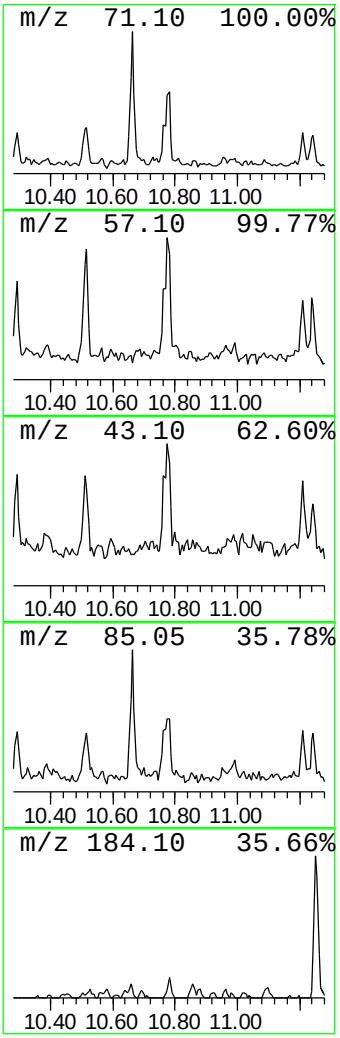
****

Peak Number 7 unknown10.78 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.78	2.19 ng	119818	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfurous acid, 2-ethylhexyl und...	348	C19H40O3S	1000309-19-4	43
2	Sulfurous acid, dodecyl 2-ethylh...	362	C20H42O3S	1000309-19-5	43
3	Undecane, 4-methyl-	170	C12H26	002980-69-0	38
4	Nonane, 5-propyl-	170	C12H26	000998-35-6	35
5	3-Hexanone, 4-ethyl-	128	C8H16O	006137-12-8	35





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Acq On : 11 Feb 2019 16:22
Operator : JU/SJ
Sample : K1450-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SHORE-RD-BOX-CULVERT-TP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.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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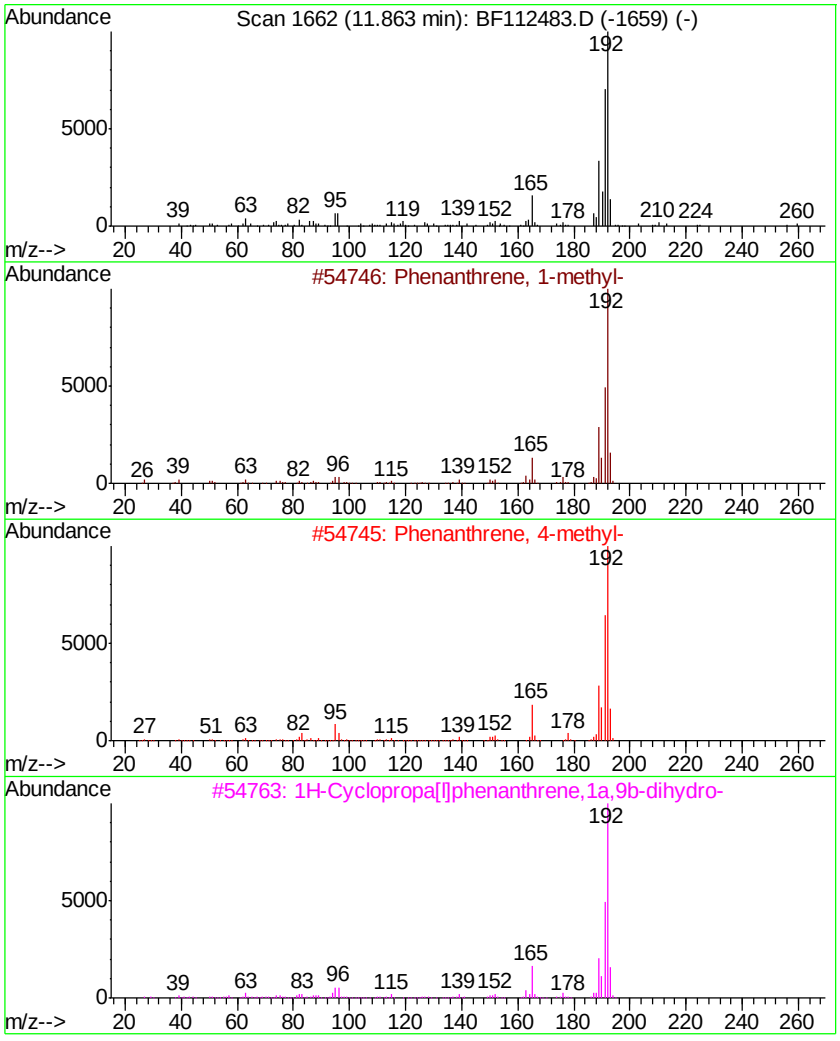
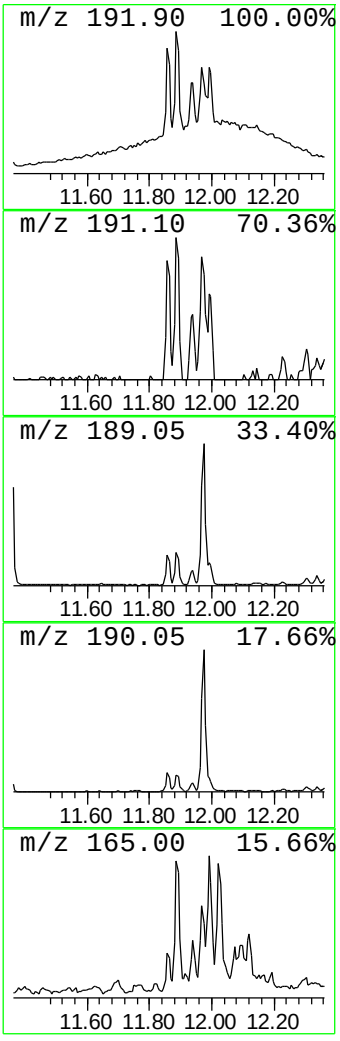
Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.86	2.22 ng	121575	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93





Library Search Compound Report

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Sample : K1450-01
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ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SHORE-RD-BOX-CULVERT-TP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.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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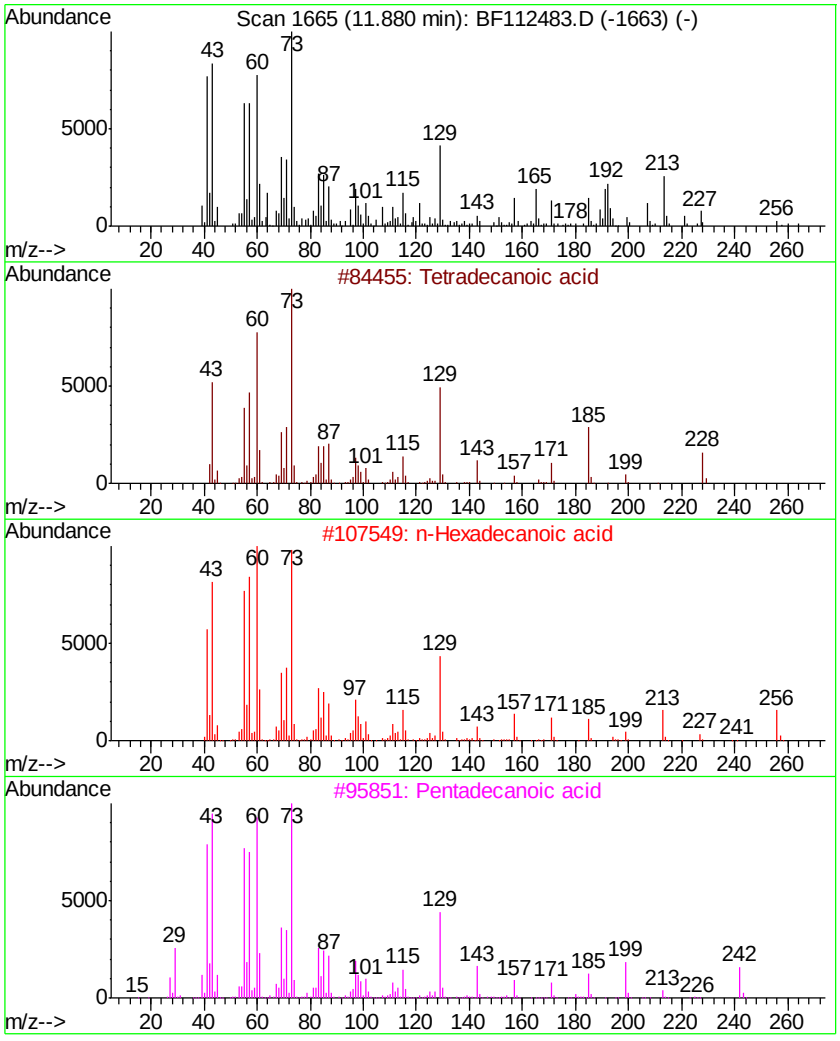
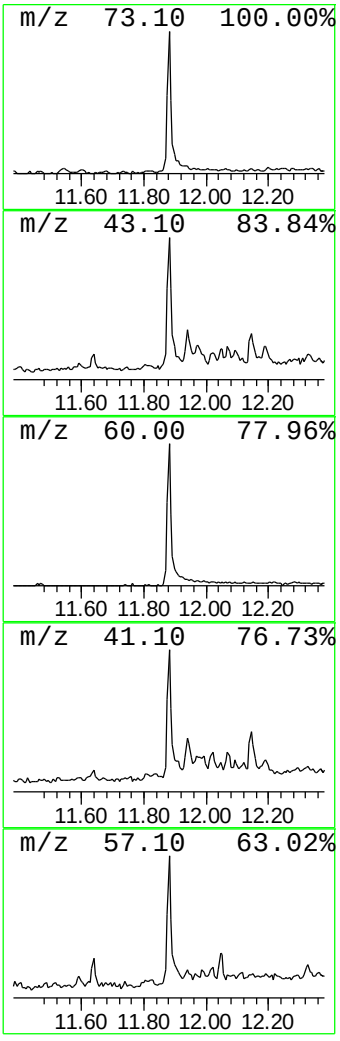
Peak Number 9 Tetradecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.88	11.03 ng	603443	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecanoic acid	228	C14H28O2	000544-63-8	91
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	89
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	86
4	Tridecanoic acid	214	C13H26O2	000638-53-9	83
5	Dodecanoic acid	200	C12H24O2	000143-07-7	52





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Sample : K1450-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SHORE-RD-BOX-CULVERT-TP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.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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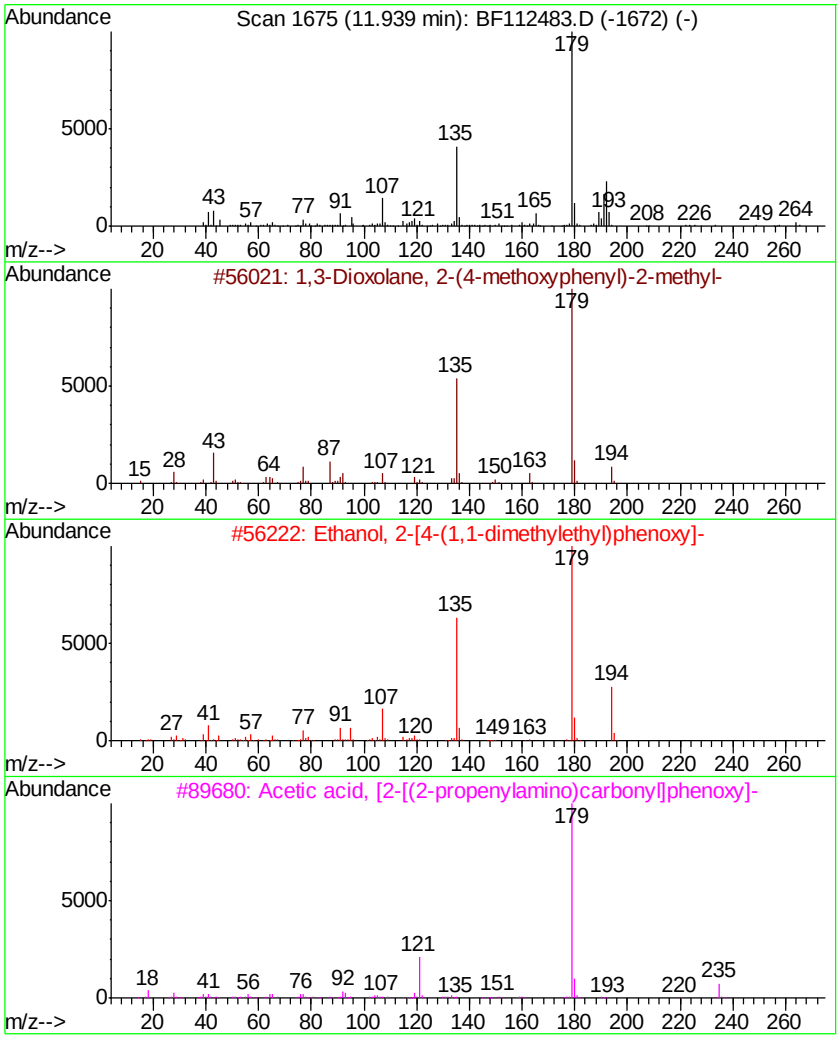
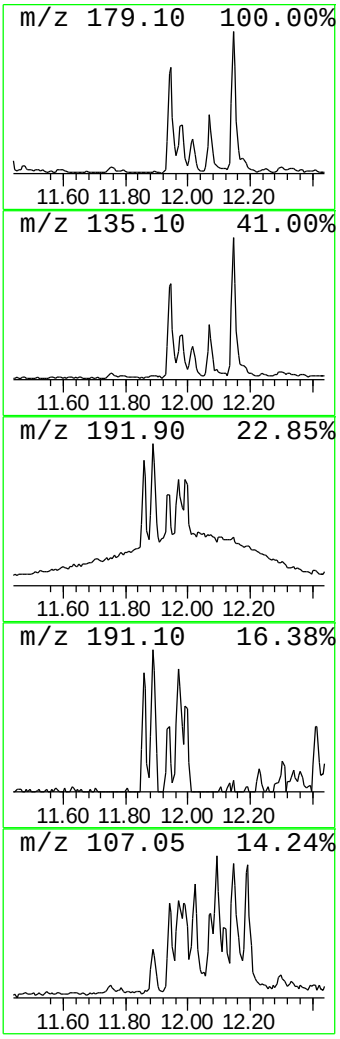
Peak Number 10 unknown11.94 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.94	7.48 ng	409221	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Dioxolane, 2-(4-methoxyphenyl...	194	C11H14O3	036881-00-2	42
2	Ethanol, 2-[4-(1,1-dimethylethyl...	194	C12H18O2	000713-46-2	38
3	Acetic acid, [2-[(2-propenylamin...	235	C12H13NO4	000119-45-9	35
4	Benzoic acid, 4-nitroso-, ethyl ...	179	C9H9NO3	007476-79-1	35
5	4-tert-Butyl-2-nitroacetanilide	236	C12H16N2O3	040655-37-6	32





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Sample : K1450-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SHORE-RD-BOX-CULVERT-TP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.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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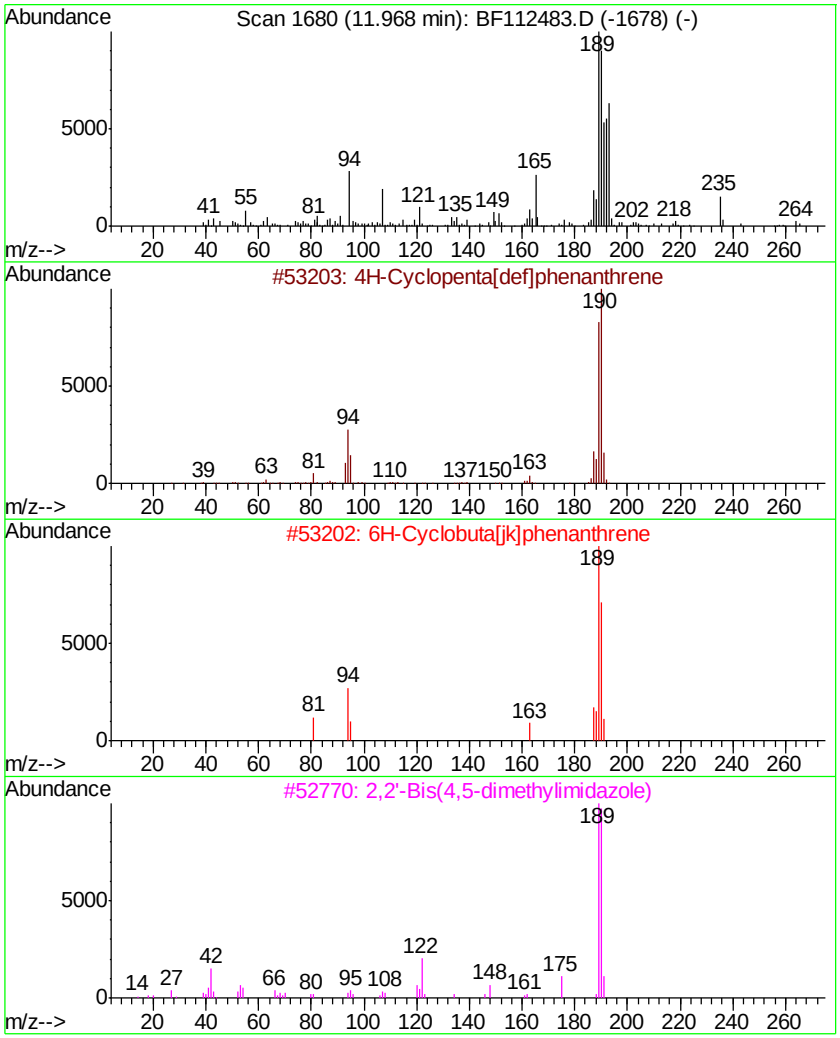
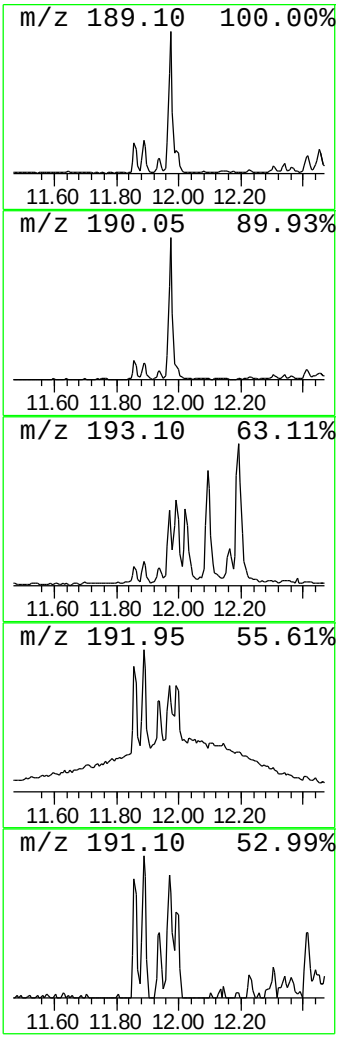
Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	10.78 ng	589629	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	83
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	59
3	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	43
4	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	20
5	Pyrimidine, 6-oxo-4-(4-fluorophe...	190	C10H7FN2O	085979-57-3	17





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Operator : JU/SJ
Sample : K1450-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SHORE-RD-BOX-CULVERT-TP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.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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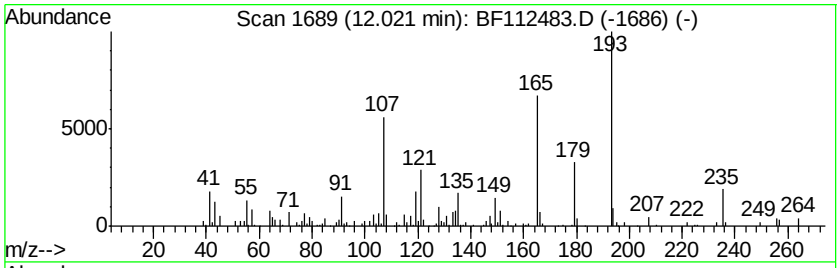
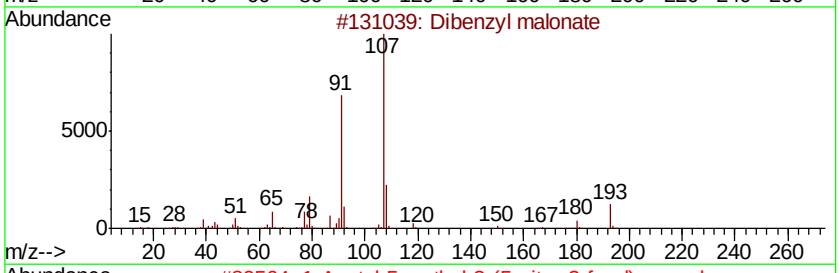
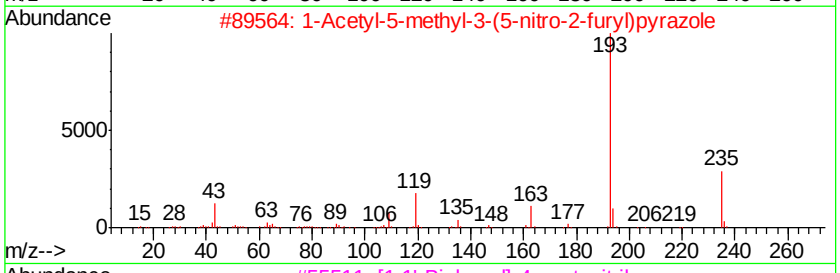
Peak Number 12 unknown12.02 Concentration Rank 6

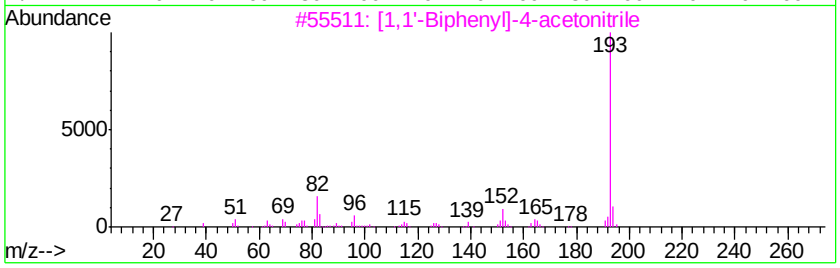
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.02	8.15 ng	446008	Phenanthrene-d10	11.36

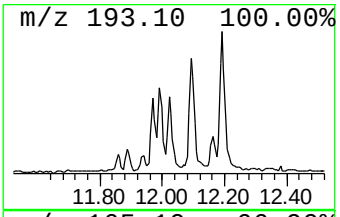
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzyl malonate	284	C17H16O4	015014-25-2	37
2	1-Acetyl-5-methyl-3-(5-nitro-2-f...	235	C10H9N3O4	016239-91-1	35
3	[1,1'-Biphenyl]-4-acetonitrile	193	C14H11N	031603-77-7	30
4	Pyrazole, 5-methyl-3-(5-nitro-2-...	193	C8H7N3O3	016239-90-0	30
5	1,3-Dioxolane, 2-(4-methoxypheny...	194	C11H14O3	006414-32-0	22

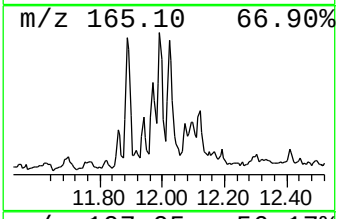


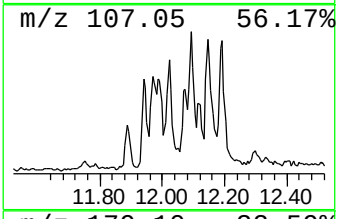


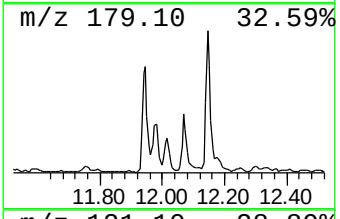


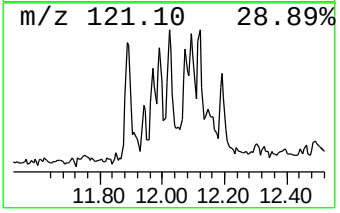












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Acq On : 11 Feb 2019 16:22
Operator : JU/SJ
Sample : K1450-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SHORE-RD-BOX-CULVERT-TP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.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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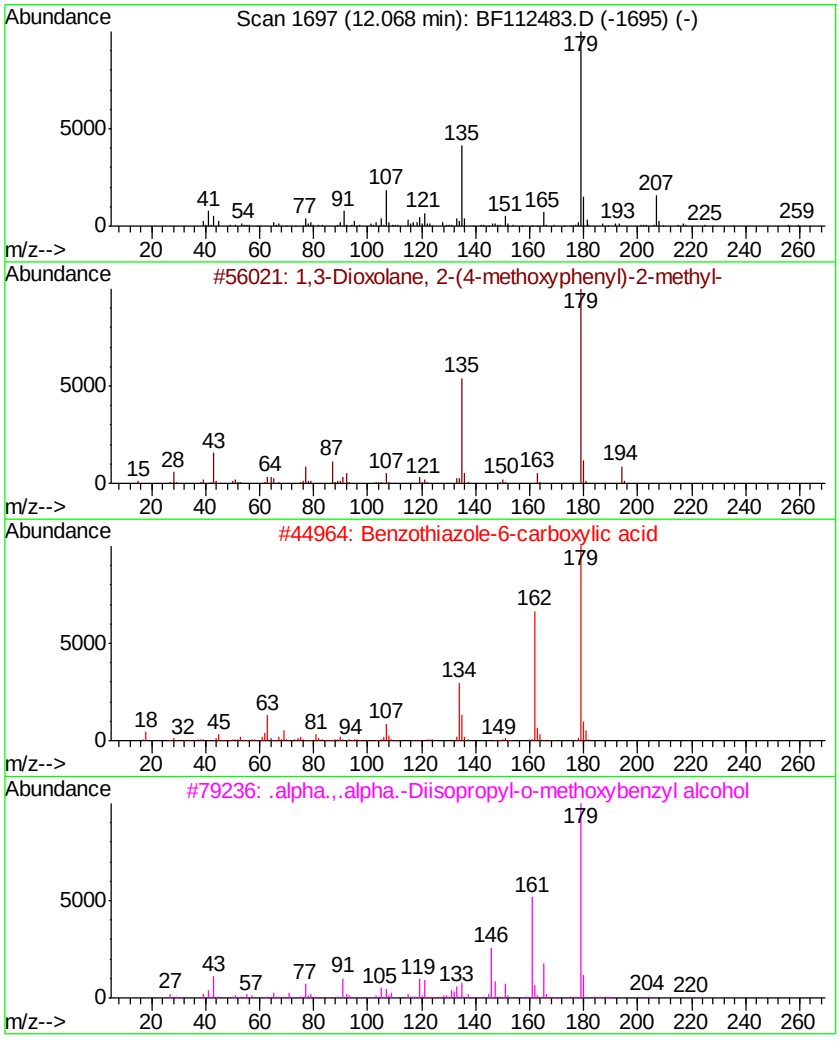
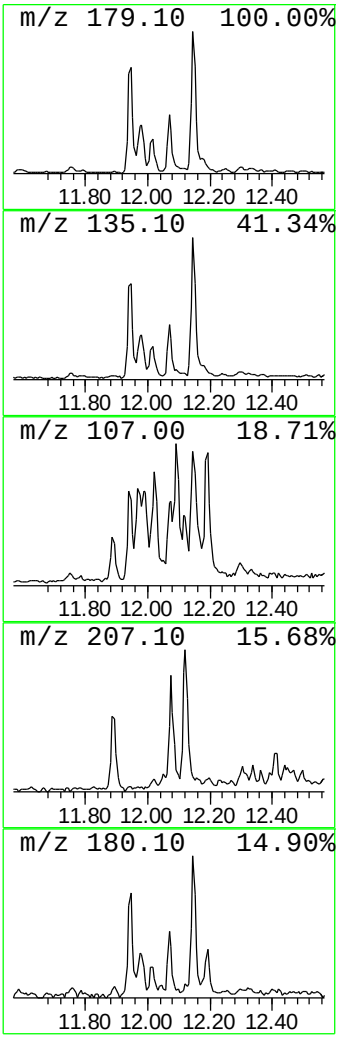
Peak Number 13 1,3-Dioxolane, 2-(4-methoxy... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.07	4.56 ng	249473	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Dioxolane, 2-(4-methoxyphenv...	194	C11H14O3	036881-00-2	64
2	Benzothiazole-6-carboxylic acid	179	C8H5NO2S	003622-35-3	53
3	.alpha.,.alpha.-Diisopropyl-o-me...	222	C14H22O2	010277-90-4	43
4	[2-(4-Methoxy-phenyl)-[1,3]dioxo...	238	C12H14O5	1000193-22-2	39
5	1,5-Dimethyl-4-allylaminocytosine	179	C9H13N3O	138002-90-1	37





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Sample : K1450-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SHORE-RD-BOX-CULVERT-TP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.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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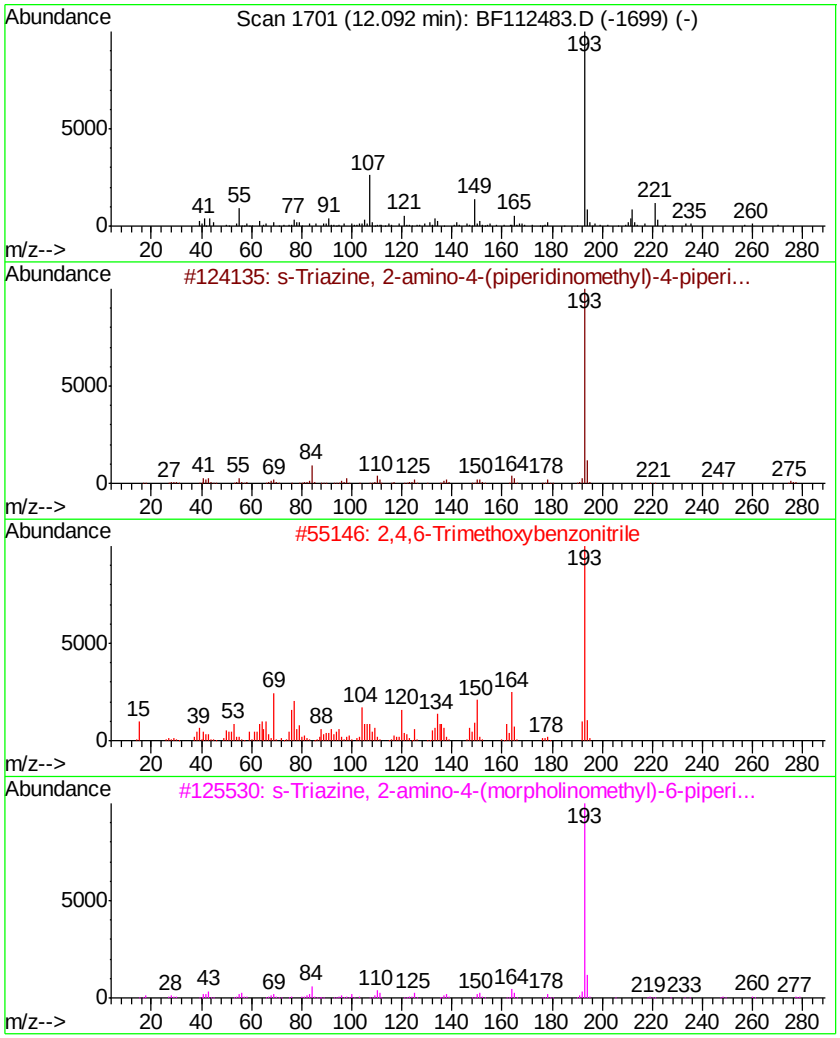
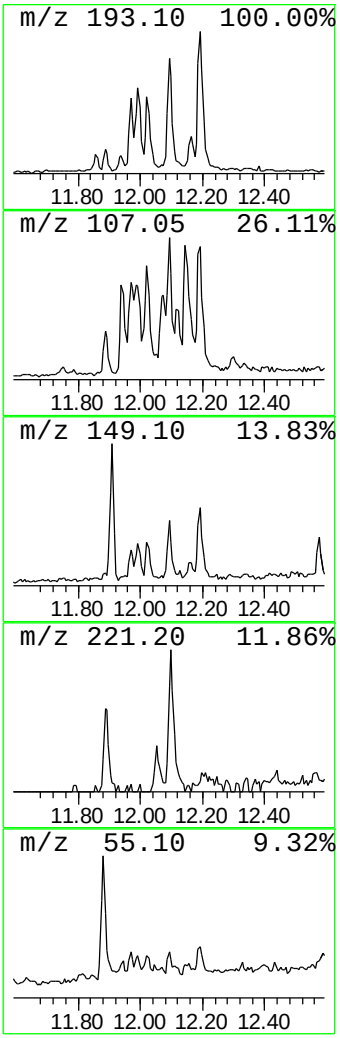
Peak Number 14 unknown12.09 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.09	5.41 ng	296150	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	s-Triazine, 2-amino-4-(piperidin...	276	C14H24N6	021868-43-9	38
2	2,4,6-Trimethoxybenzonitrile	193	C10H11NO3	002571-54-2	33
3	s-Triazine, 2-amino-4-(morpholin...	278	C13H22N6O	021868-45-1	28
4	4',6'-Dimethoxy-2',3'-dimethylac...	208	C12H16O3	1000244-80-3	28
5	2-Aminophenanthrene	193	C14H11N	003366-65-2	25





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Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SHORE-RD-BOX-CULVERT-TP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.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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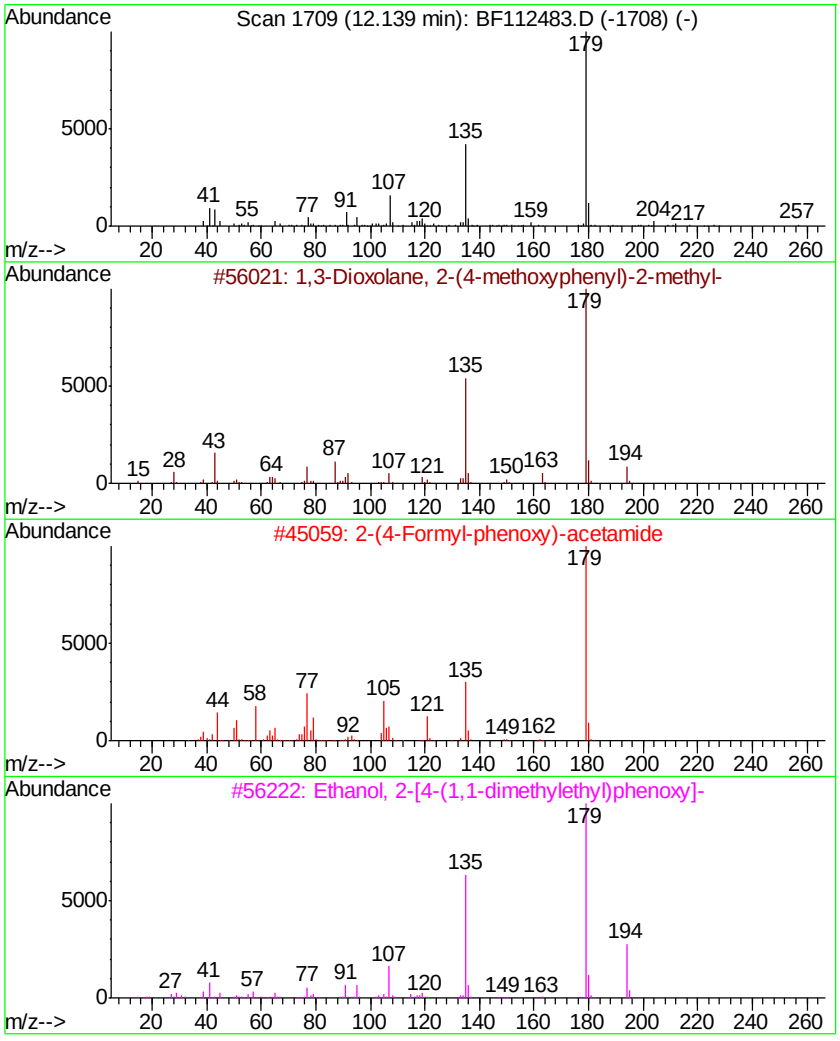
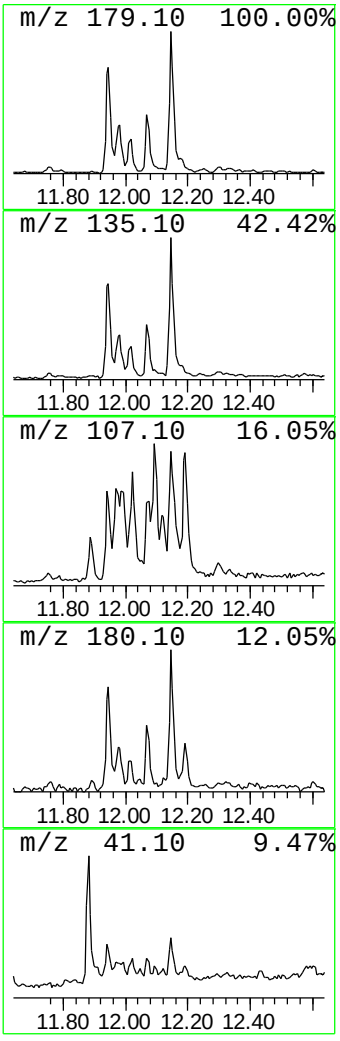
Peak Number 15 unknown12.14 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.14	9.76 ng	533696	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Dioxolane, 2-(4-methoxyphenyl...	194	C11H14O3	036881-00-2	39
2	2-(4-Formyl-phenoxy)-acetamide	179	C9H9NO3	135857-20-4	39
3	Ethanol, 2-[4-(1,1-dimethylethyl...	194	C12H18O2	000713-46-2	38
4	Phenanthridine	179	C13H9N	000229-87-8	32
5	Undecan, 1,11-bis(9,10-dihydroan...	512	C39H44	147398-44-5	32





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Sample : K1450-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SHORE-RD-BOX-CULVERT-TP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.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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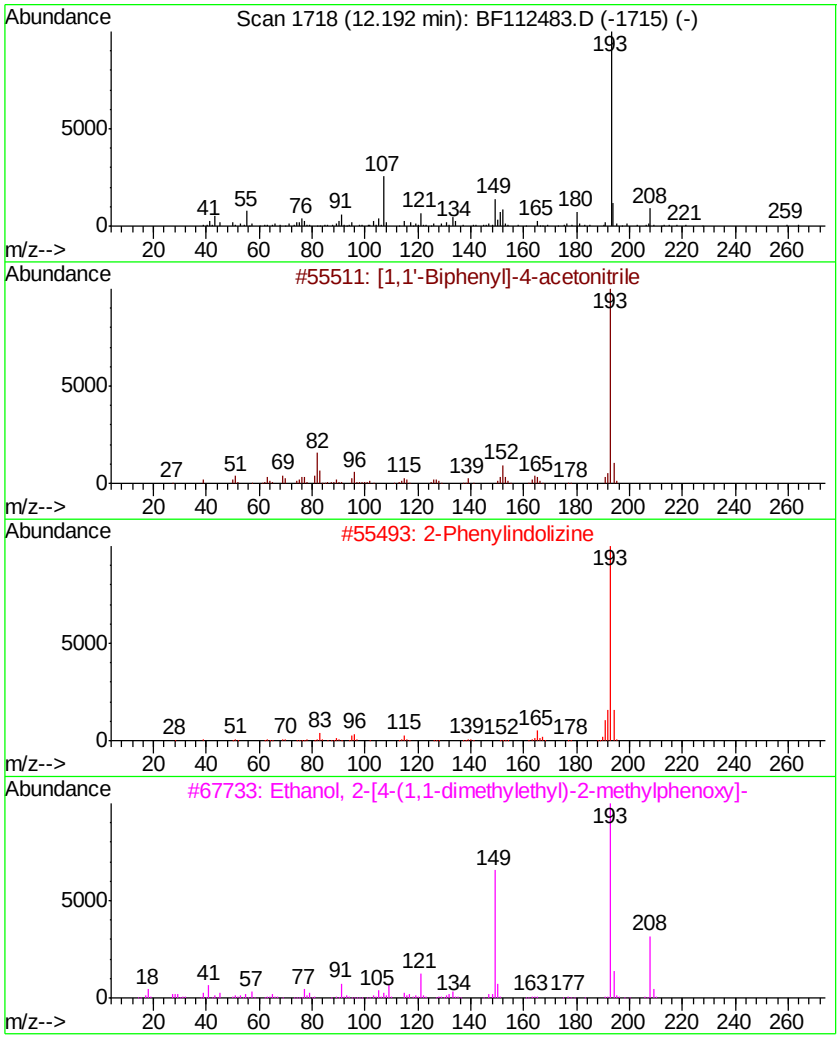
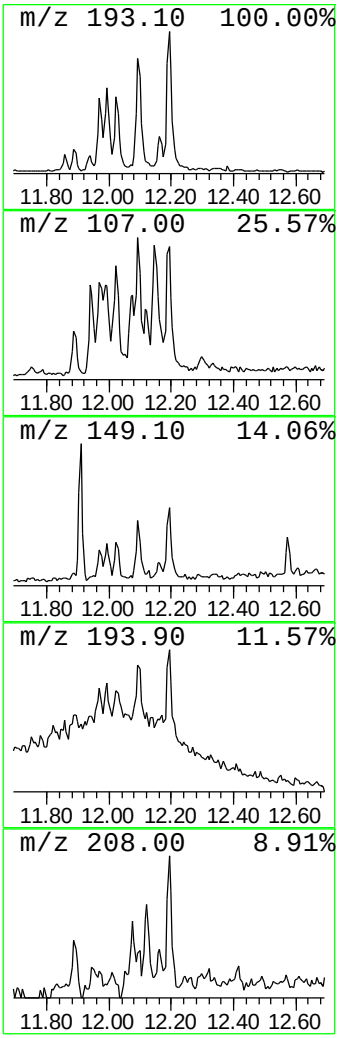
Peak Number 16 [1,1'-Biphenyl]-4-acetonitrile Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.19	5.45 ng	298419	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl]-4-acetonitrile	193	C14H11N	031603-77-7	50
2	2-Phenylindolizine	193	C14H11N	025379-20-8	47
3	Ethanol, 2-[4-(1,1-dimethylethyl...	208	C13H20O2	054934-87-1	38
4	Pyrazole, 5-methyl-3-(5-nitro-2-...	193	C8H7N3O3	016239-90-0	38
5	Benzo[f]quinoline, 3-methyl-	193	C14H11N	000085-06-3	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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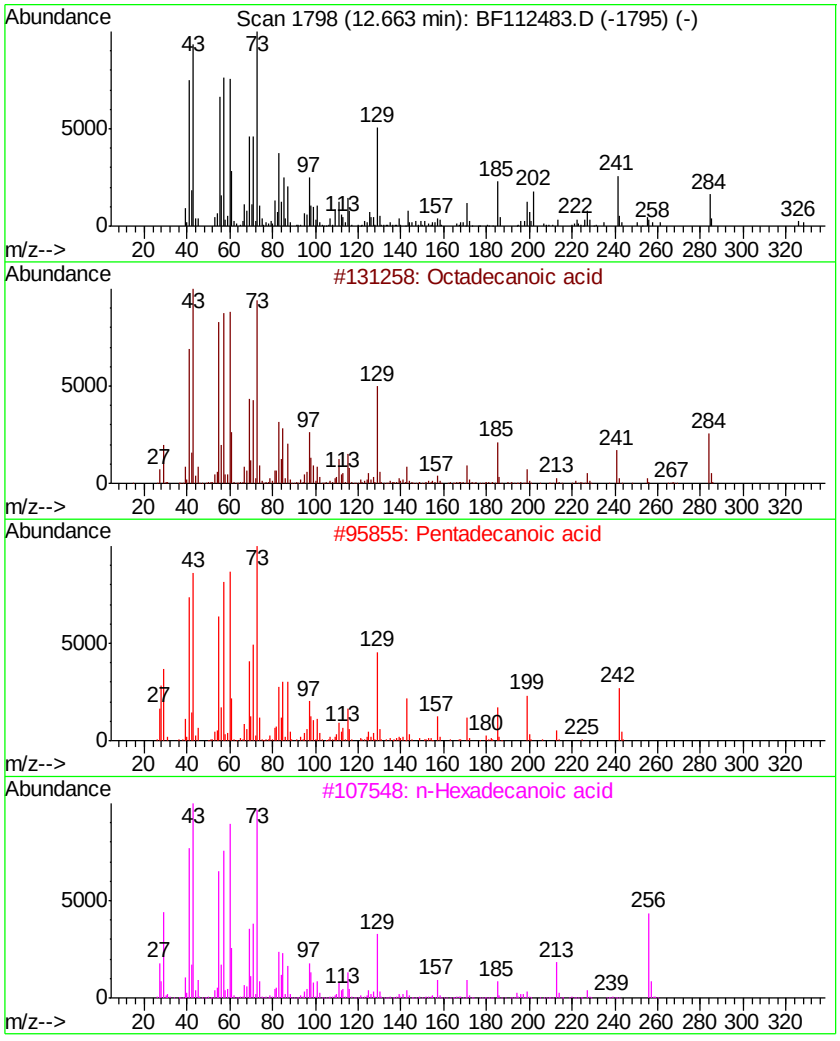
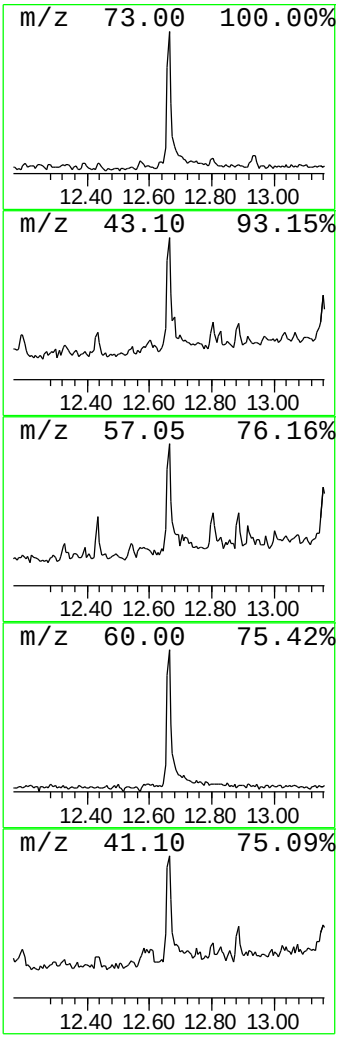
Peak Number 17 Octadecanoic acid Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.66	4.60 ng	251549	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	93
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	89
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	64
5	Dodecanoic acid	200	C12H24O2	000143-07-7	60





Library Search Compound Report

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Data File : BF112483.D
Acq On : 11 Feb 2019 16:22
Operator : JU/SJ
Sample : K1450-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SHORE-RD-BOX-CULVERT-TP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.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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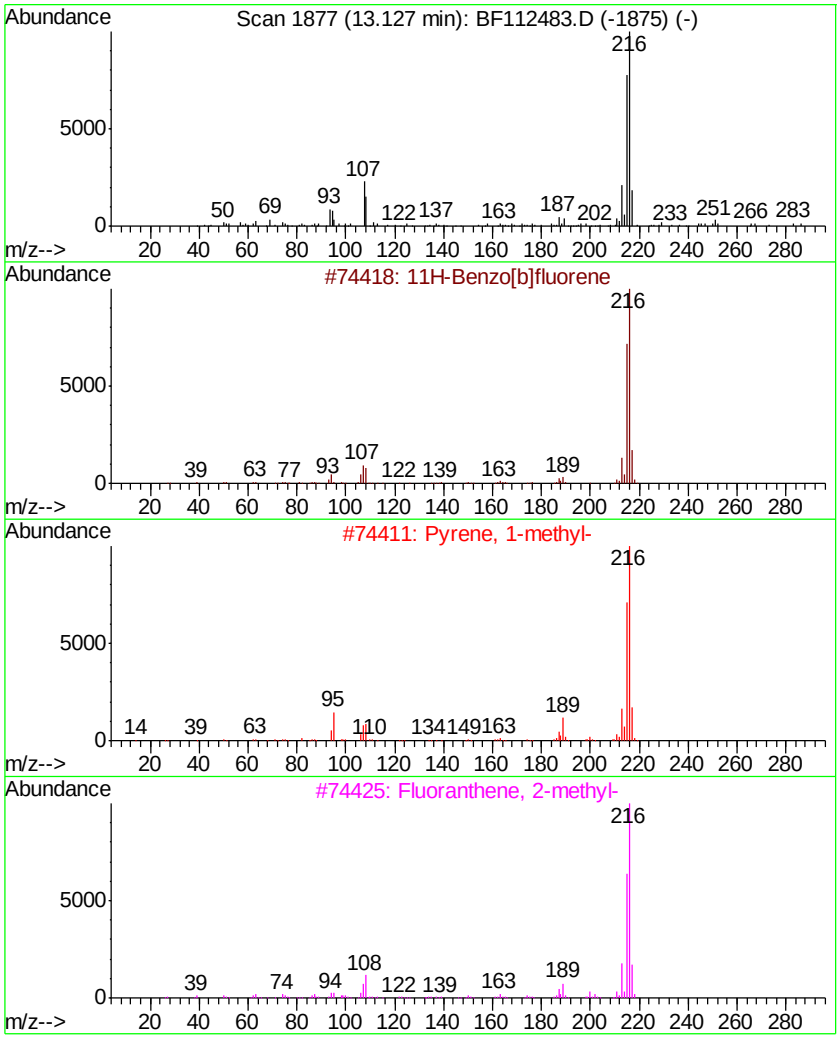
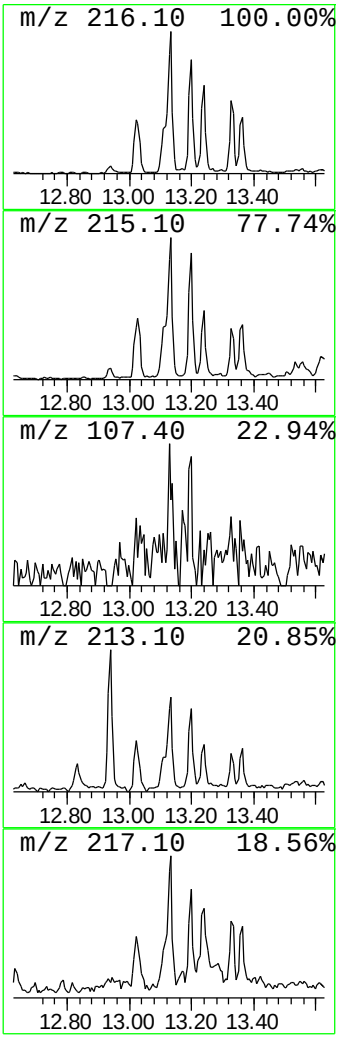
Peak Number 18 11H-Benzo[b]fluorene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.13	2.77 ng	184975	Chrysene-d12	14.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	80
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	72
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	64
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	59





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Data File : BF112483.D
Acq On : 11 Feb 2019 16:22
Operator : JU/SJ
Sample : K1450-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SHORE-RD-BOX-CULVERT-TP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.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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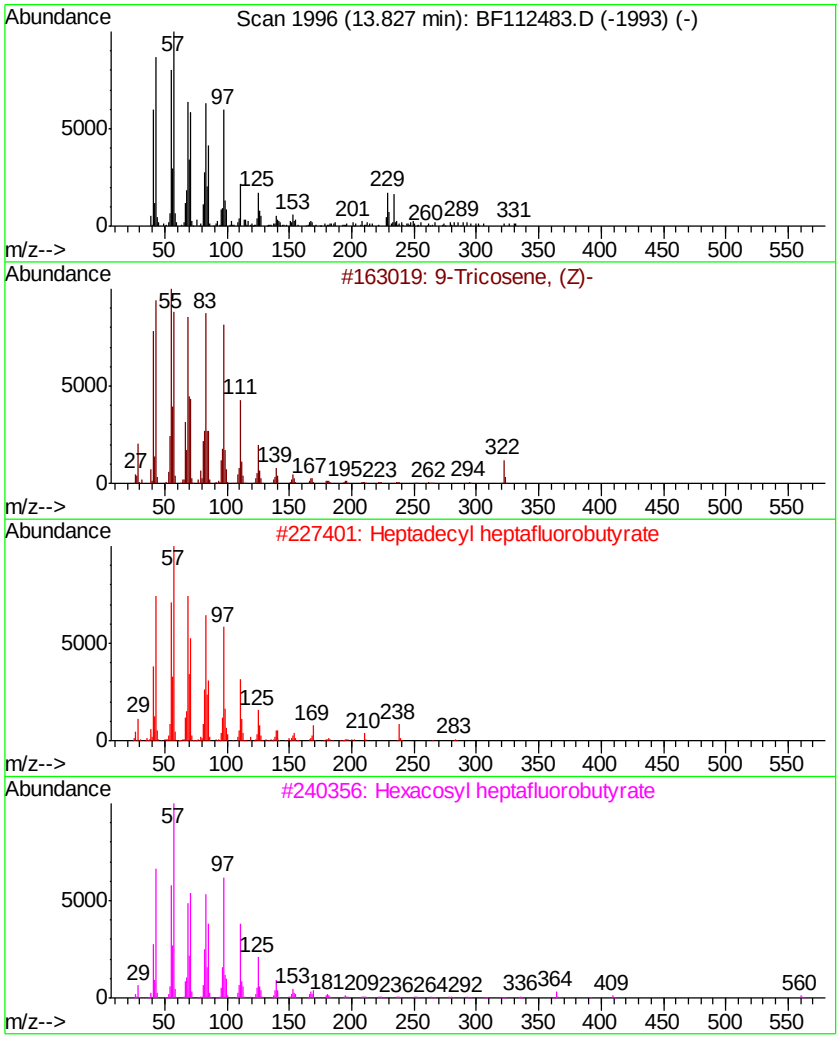
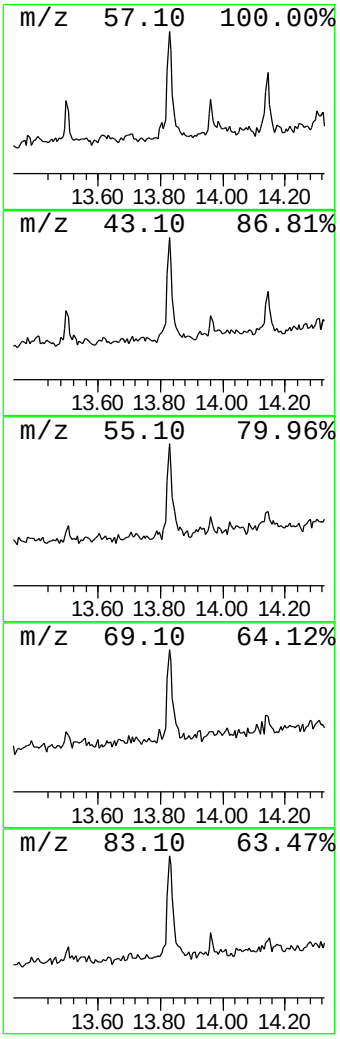
Peak Number 19 9-Tricosene, (Z)- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.83	3.44 ng	229578	Chrysene-d12	14.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Tricosene, (Z)-	322	C23H46	027519-02-4	83
2	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	81
3	Hexacosyl heptafluorobutyrate	578	C30H53F7O2	1000351-83-3	74
4	17-Pentatriacontene	491	C35H70	006971-40-0	74
5	Ethanol, 2-(tetradecyloxy)-	258	C16H34O2	002136-70-1	74





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021119\
Data File : BF112483.D
Acq On : 11 Feb 2019 16:22
Operator : JU/SJ
Sample : K1450-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SHORE-RD-BOX-CULVERT-TP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.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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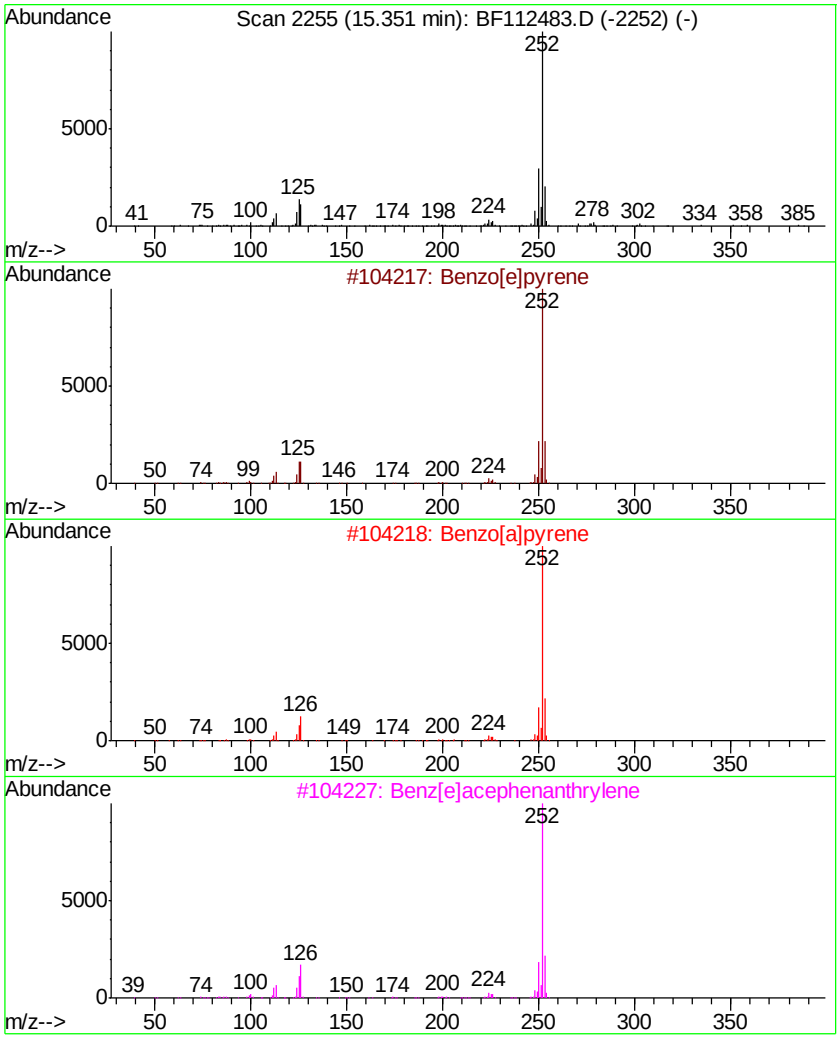
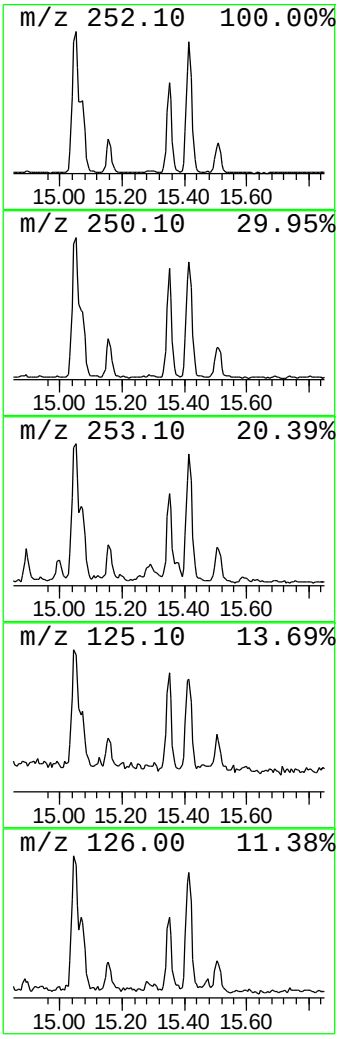
Peak Number 20 Benzo[e]pyrene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.35	6.80 ng	264099	Perylene-d12	15.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[a]pyrene	252	C20H12	000050-32-8	96
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95
4	Perylene	252	C20H12	000198-55-0	95
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	95





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF021119\
Data File : BF112483.D
Acq On : 11 Feb 2019 16:22
Operator : JU/SJ
Sample : K1450-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SHORE-RD-BOX-CULVERT-TP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.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...	2.13	4.8	ng	214961	1	6.83	898773	20.0
2-Pentanone, 4-hy...	5.07	5.2	ng	233169	1	6.83	898773	20.0
unknown6.61	6.61	99.8	ng	4484790	1	6.83	898773	20.0
unknown6.67	6.67	2.3	ng	102017	1	6.83	898773	20.0
o-Cymene	8.39	2.2	ng	139214	2	8.12	1275450	20.0
unknown10.78	10.78	2.2	ng	119818	4	11.36	1094120	20.0
Phenanthrene, 1-m...	11.86	2.2	ng	121575	4	11.36	1094120	20.0
Tetradecanoic acid	11.88	11.0	ng	603443	4	11.36	1094120	20.0
unknown11.94	11.94	7.5	ng	409221	4	11.36	1094120	20.0
4H-Cyclopenta[def...	11.97	10.8	ng	589629	4	11.36	1094120	20.0
unknown12.02	12.02	8.2	ng	446008	4	11.36	1094120	20.0
1,3-Dioxolane, 2-...	12.07	4.6	ng	249473	4	11.36	1094120	20.0
unknown12.09	12.09	5.4	ng	296150	4	11.36	1094120	20.0
unknown12.14	12.14	9.8	ng	533696	4	11.36	1094120	20.0
[1,1'-Biphenyl]-4...	12.19	5.5	ng	298419	4	11.36	1094120	20.0
Octadecanoic acid	12.66	4.6	ng	251549	4	11.36	1094120	20.0
11H-Benzo[b]fluorene	13.13	2.8	ng	184975	5	14.00	1334850	20.0
9-Tricosene, (Z)-	13.83	3.4	ng	229578	5	14.00	1334850	20.0
Benzo[e]pyrene	15.35	6.8	ng	264099	6	15.47	776671	20.0