LSC Area Percent Report

Data Path : V:\HPCHEM1\BNA F\DATA\BF070816\
Data File : BF088849.D
Acq On : 9 Jul 2016 3:12
Operator : UM/SJ
Sample : H3813-18 50X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P001-TL001-01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.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	1.816	18	20	23	rBV	1163973	1693517	89.85%	11.929%
2	1.896	23	27	29	rVV	800784	1416952	75.18%	9.981%
3	1.930	29	30	44	rVB	58252	155022	8.23%	1.092%
4	2.113	44	46	61	rVB3	18654	51986	2.76%	0.366%
5	2.764	99	103	106	rBV	107222	160834	8.53%	1.133%
6	4.387	240	245	247	rBV2	27354	44233	2.35%	0.312%
7	4.433	247	249	252	rVB	18808	25368	1.35%	0.179%
8	4.639	264	267	270	rBB	175601	196357	10.42%	1.383%
9	4.890	286	289	291	rBV	567462	665773	35.32%	4.689%
10	5.004	296	299	301	rBV2	25725	47930	2.54%	0.338%
11	5.050	301	303	305	rVV	275927	315846	16.76%	2.225%
12	5.084	305	306	309	rVB	33717	43079	2.29%	0.303%
13	5.199	311	316	318	rBV	1342130	1884741	100.00%	13.275%
14	5.279	321	323	326	rBB	29294	29954	1.59%	0.211%
15	5.404	331	334	336	rBV	1473911	1450414	76.96%	10.216%
16	5.839	370	372	375	rBV	354908	376738	19.99%	2.654%
17	6.353	415	417	420	rBV	65056	58654	3.11%	0.413%
18	6.422	420	423	426	rVB2	60461	81225	4.31%	0.572%
19	6.547	432	434	435	rBV	106865	84562	4.49%	0.596%
20	6.730	448	450	451	rBV	438660	405189	21.50%	2.854%
21	6.765	451	453	455	rVV2	50983	64454	3.42%	0.454%
22	6.810	455	457	460	rVV	215436	272424	14.45%	1.919%
23	6.879	460	463	465	rVV	38240	62708	3.33%	0.442%
24	6.913	465	466	468	rVB	257042	197309	10.47%	1.390%
25	6.970	469	471	473	rVB	158627	137835	7.31%	0.971%
26	7.130	483	485	488	rVB	73776	70735	3.75%	0.498%
27	7.210	488	492	494	rBV	139919	152775	8.11%	1.076%
28	7.302	496	500	502	rBB3	233113	241316	12.80%	1.700%
29	7.359	502	505	507	rBV	176871	181705	9.64%	1.280%
30	7.439	509	512	513	rVV	141647	126186	6.70%	0.889%
31	7.462	513	514	517	rVB	26366	22148	1.18%	0.156%
32	7.908	552	553	556	rBB	18122	20356	1.08%	0.143%
33	8.010	560	562	564	rVV	579676	538580	28.58%	3.794%
34	8.079	564	568	570	rVB	84099	112414	5.96%	0.792%

LSC Area Percent Report

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Acq On : 9 Jul 2016 3:12
Operator : UM/SJ
Sample : H3813-18 50X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P001-TL001-01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	8.205	577	579	582	rBB	19975	19571	1.04%	0.138%
36	8.296	584	587	589	rVV	641452	553703	29.38%	3.900%
37	8.388	593	595	598	rBB	35140	52359	2.78%	0.369%
38	8.445	598	600	603	rBV	15609	21186	1.12%	0.149%
39	8.993	647	648	650	rVB	64261	52950	2.81%	0.373%
40	9.039	650	652	654	rBB	61740	50575	2.68%	0.356%
41	9.085	654	656	659	rBB	62331	59597	3.16%	0.420%
42	9.428	684	686	687	rBB	23957	25237	1.34%	0.178%
43	9.759	713	715	718	rBV	672980	588255	31.21%	4.143%
44	11.234	842	844	847	rBV	646707	580529	30.80%	4.089%
45	13.862	1071	1074	1076	rBV	409148	451122	23.94%	3.178%
46	15.234	1192	1194	1197	rBV	319109	352778	18.72%	2.485%

Sum of corrected areas: 14197181

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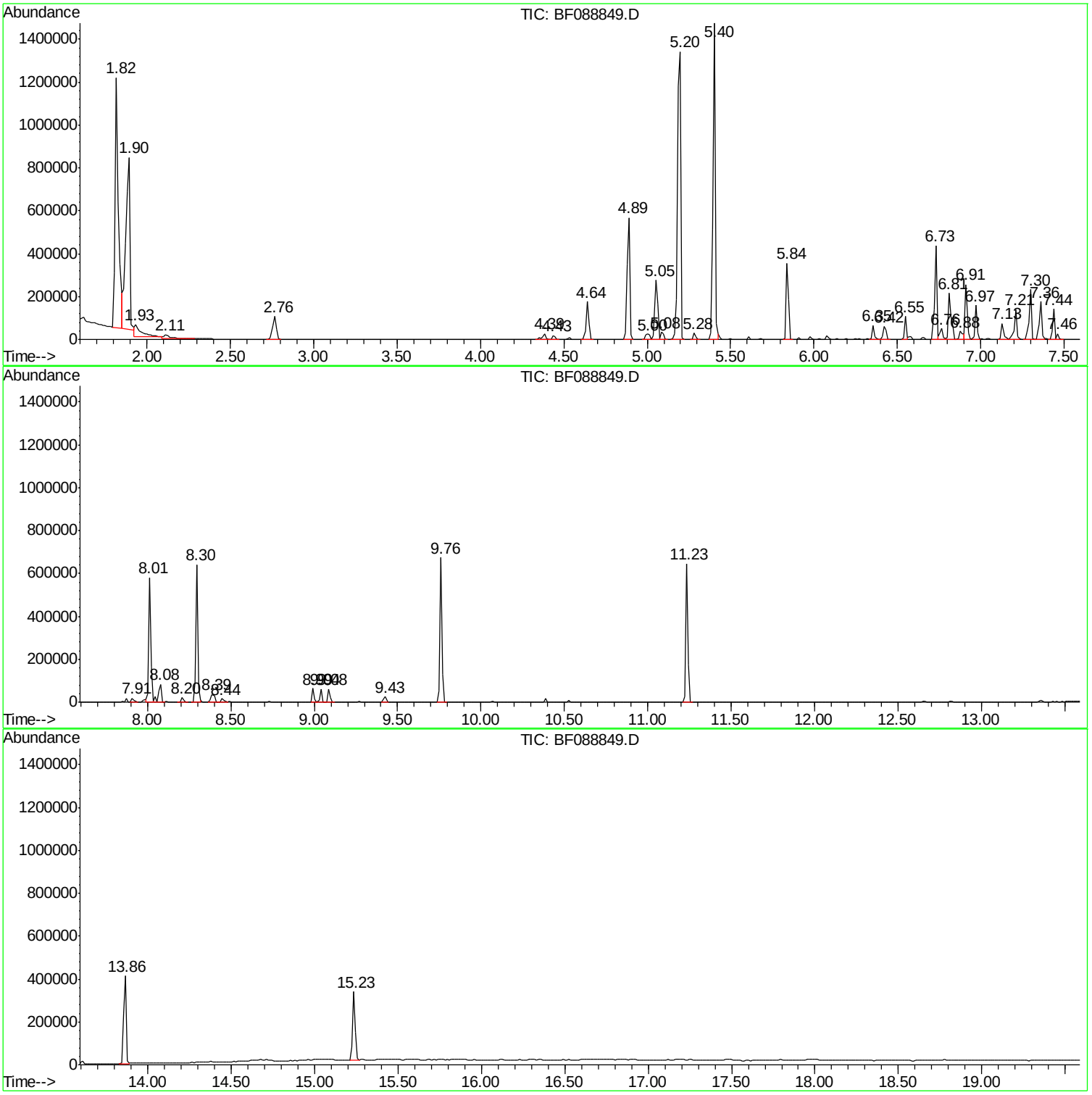
Instrument :
BNA_F
ClientSampleId :
P001-TL001-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.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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Acq On : 9 Jul 2016 3:12
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Instrument : BNA_F
ClientSampleId : P001-TL001-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

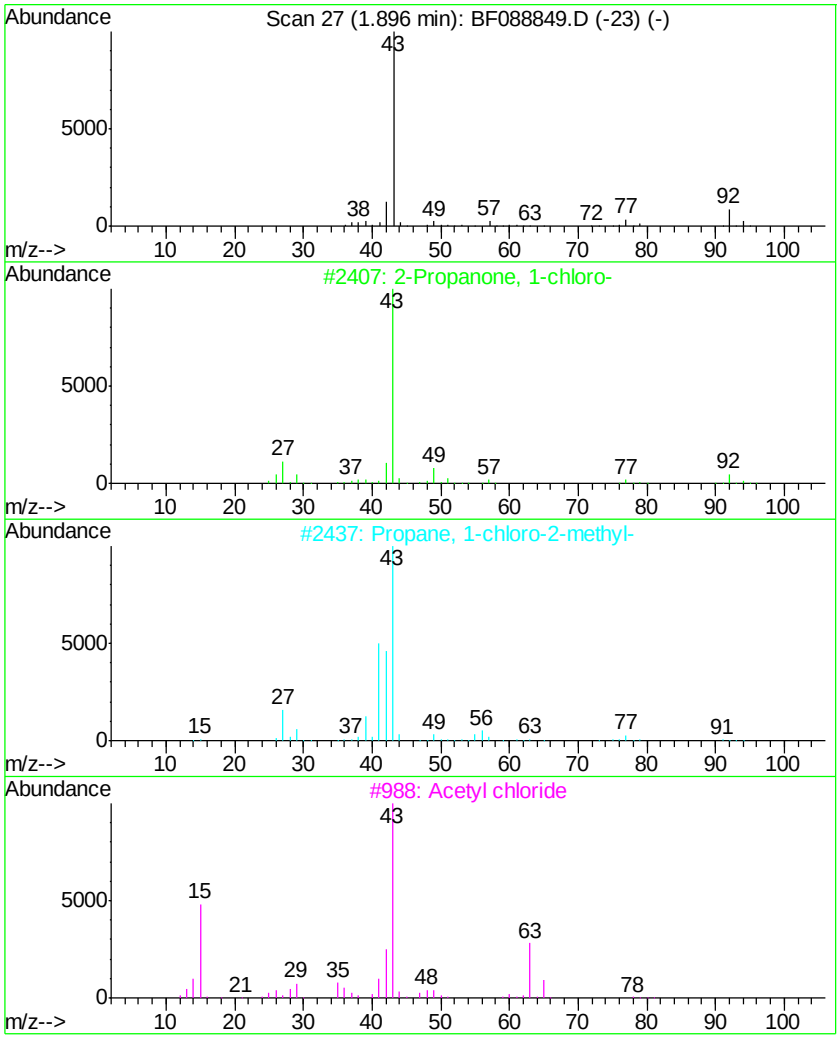
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

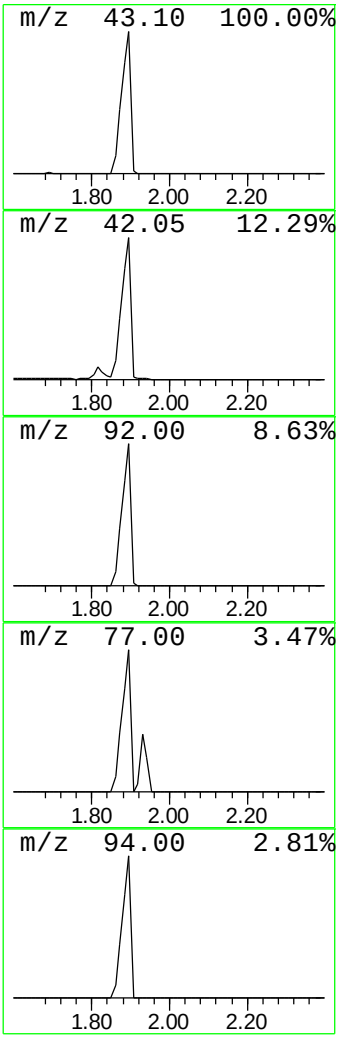
****

Peak Number 2 2-Propanone, 1-chloro- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.90	69.94 ng	1416950	1,4-Dichlorobenzene-d4	6.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanone, 1-chloro-	92	C3H5ClO	000078-95-5	64
2	Propane, 1-chloro-2-methyl-	92	C4H9Cl	000513-36-0	9
3	Acetyl chloride	78	C2H3ClO	000075-36-5	7
4	Chloroacetamidine	92	C2H5ClN2	020846-52-0	7
5	1-Chloro-2-methylpropyl chlorofo...	170	C5H8Cl2O2	092600-11-8	4





Library Search Compound Report

Data Path : V:\HPCHEM1\BNA F\DATA\BF070816\
Data File : BF088849.D
Acq On : 9 Jul 2016 3:12
Operator : UM/SJ
Sample : H3813-18 50X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P001-TL001-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.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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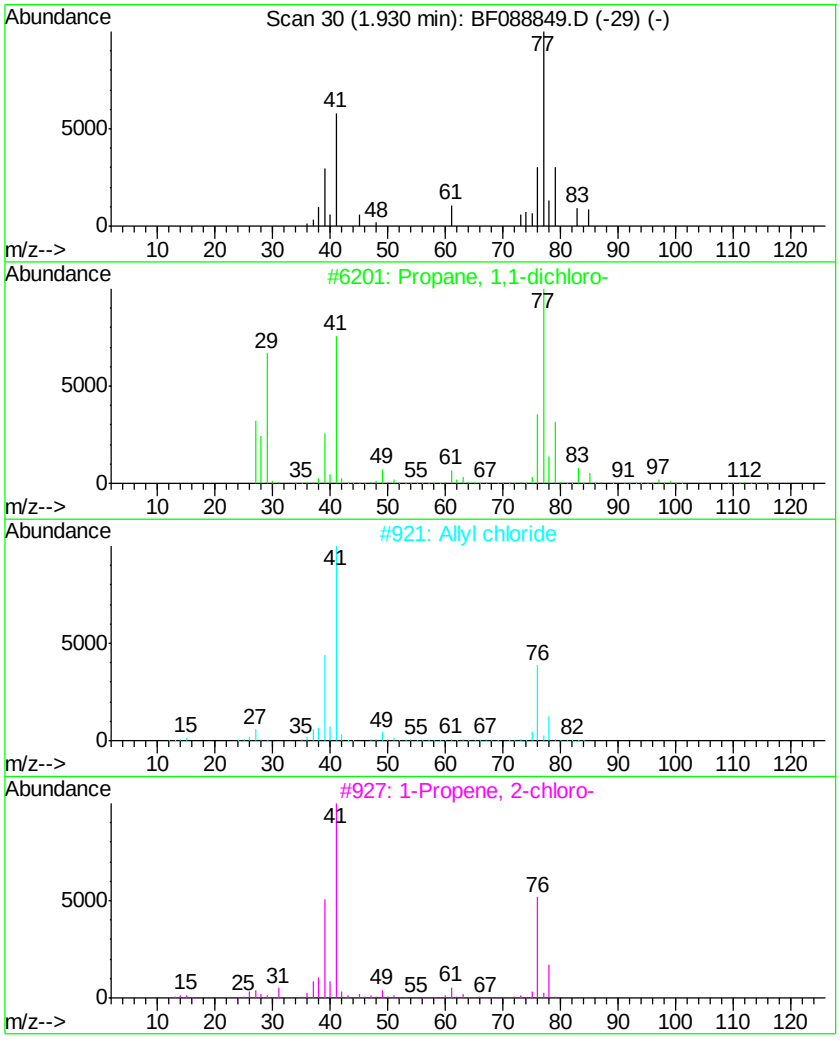
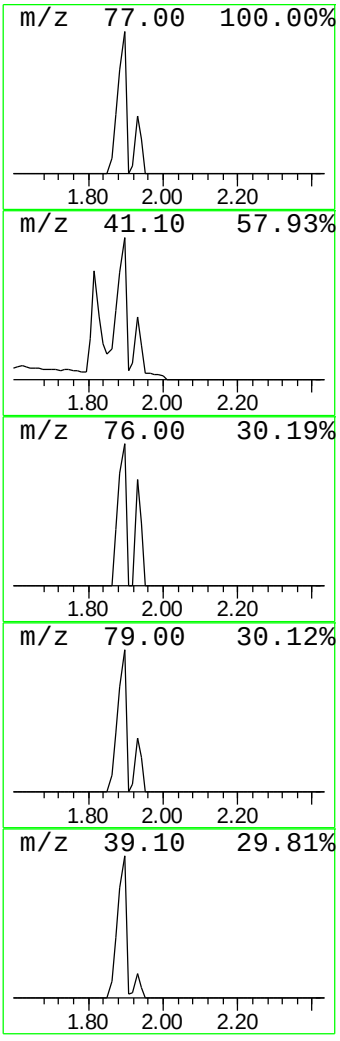
Peak Number 3 Propane, 1,1-dichloro- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.93	7.65 ng	155022	1,4-Dichlorobenzene-d4	6.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane, 1,1-dichloro-	112	C3H6Cl2	000078-99-9	78
2	Allyl chloride	76	C3H5Cl	000107-05-1	10
3	1-Propene, 2-chloro-	76	C3H5Cl	000557-98-2	9
4	1-Propene, 1-chloro-	76	C3H5Cl	000590-21-6	9
5	1-Propene, 1-chloro-, (Z)-	76	C3H5Cl	016136-84-8	9





Data Path : V:\HPCHEM1\BNA F\DATA\BF070816\
Data File : BF088849.D
Acq On : 9 Jul 2016 3:12
Operator : UM/SJ
Sample : H3813-18 50X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P001-TL001-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.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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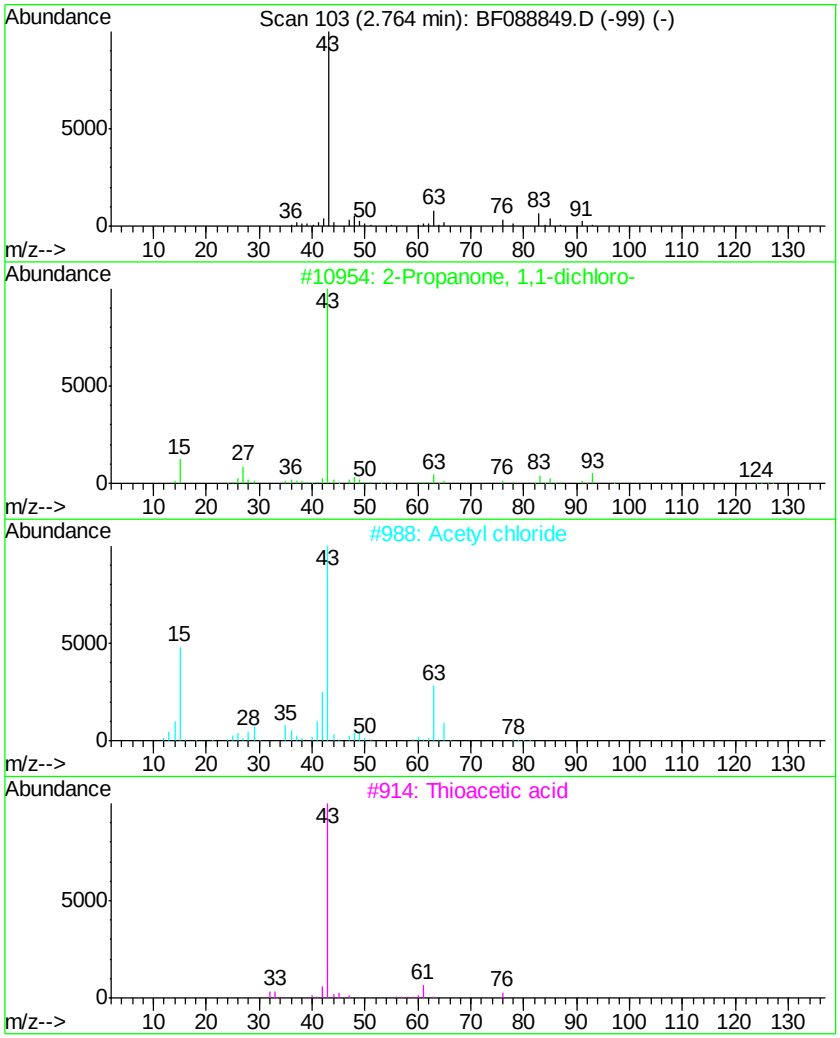
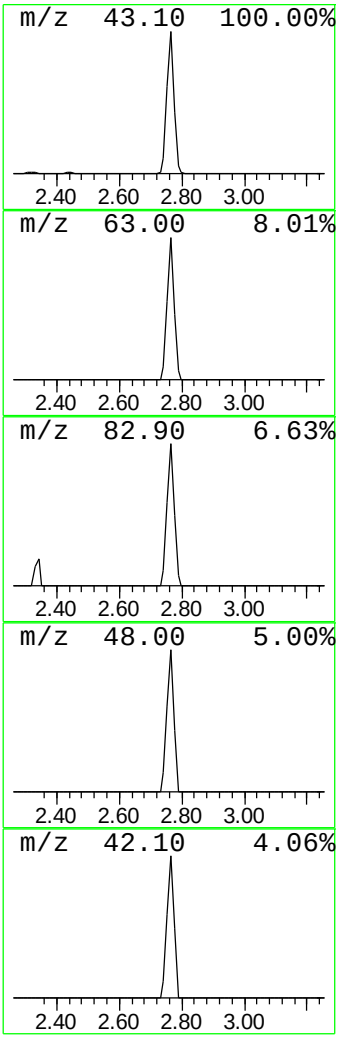
Peak Number 4 2-Propanone, 1,1-dichloro- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.76	7.94 ng	160834	1,4-Dichlorobenzene-d4	6.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanone, 1,1-dichloro-	126	C3H4Cl2O	000513-88-2	83
2	Acetyl chloride	78	C2H3ClO	000075-36-5	35
3	Thioacetic acid	76	C2H4OS	000507-09-5	4
4	2-Propanone, 1-fluoro-	76	C3H5FO	000430-51-3	4
5	2-tert-Butyl-4,6-dinitrophenyl a...	282	C12H14N2O6	1000373-33-1	4





Data Path : V:\HPCHEM1\BNA F\DATA\BF070816\
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Sample : H3813-18 50X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P001-TL001-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

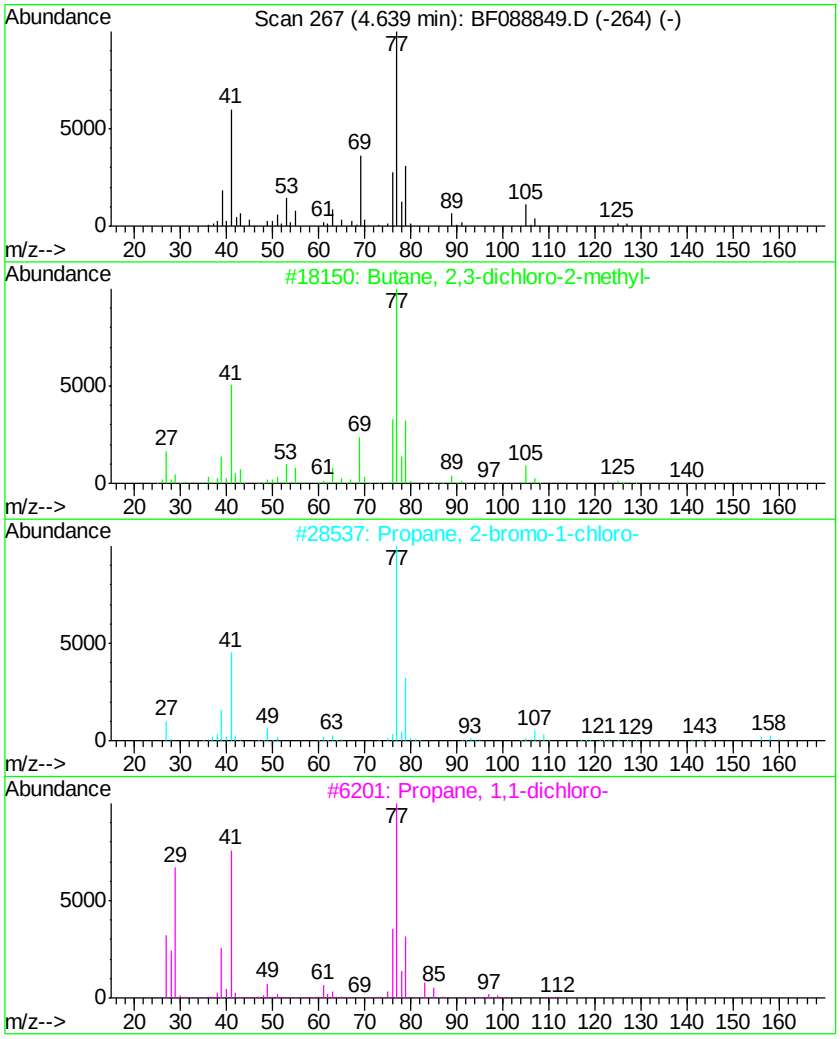
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

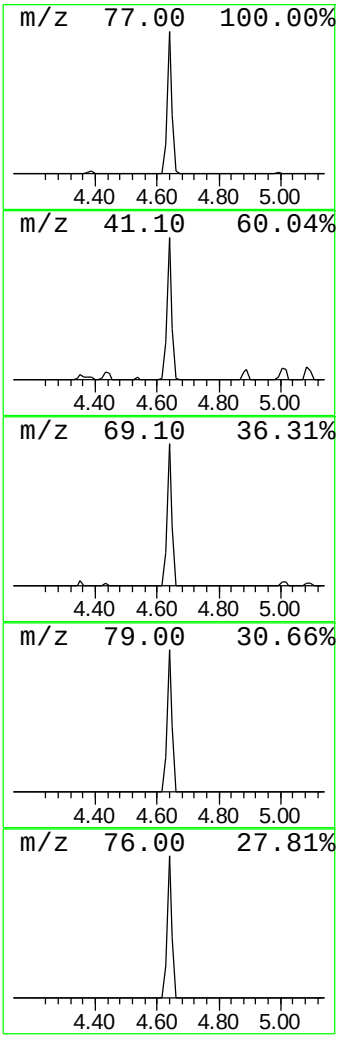
****

Peak Number 5 Butane, 2,3-dichloro-2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.64	9.69 ng	196357	1,4-Dichlorobenzene-d4	6.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,3-dichloro-2-methyl-	140	C5H10Cl2	000507-45-9	90
2	Propane, 2-bromo-1-chloro-	156	C3H6BrCl	003017-95-6	40
3	Propane, 1,1-dichloro-	112	C3H6Cl2	000078-99-9	38
4	Butane, 1,3-dichloro-3-methyl-	140	C5H10Cl2	000624-96-4	12
5	Allyl chloride	76	C3H5Cl	000107-05-1	9





Data Path : V:\HPCHEM1\BNA F\DATA\BF070816\
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Acq On : 9 Jul 2016 3:12
Operator : UM/SJ
Sample : H3813-18 50X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P001-TL001-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
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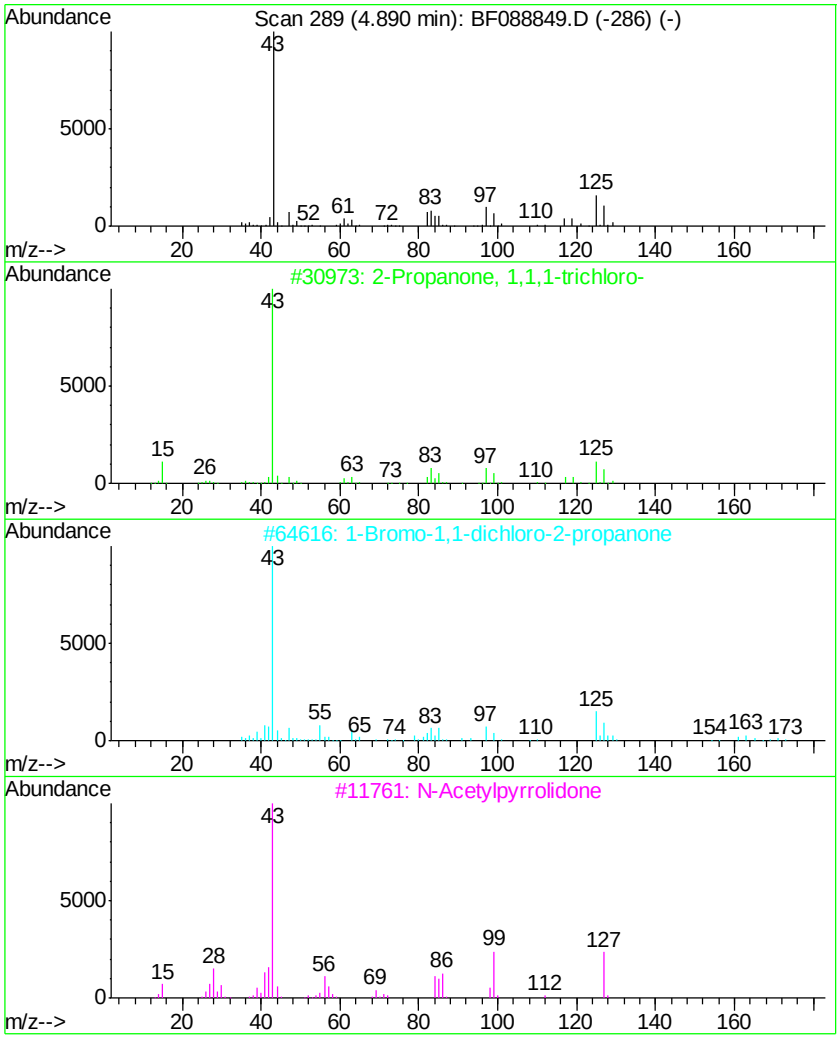
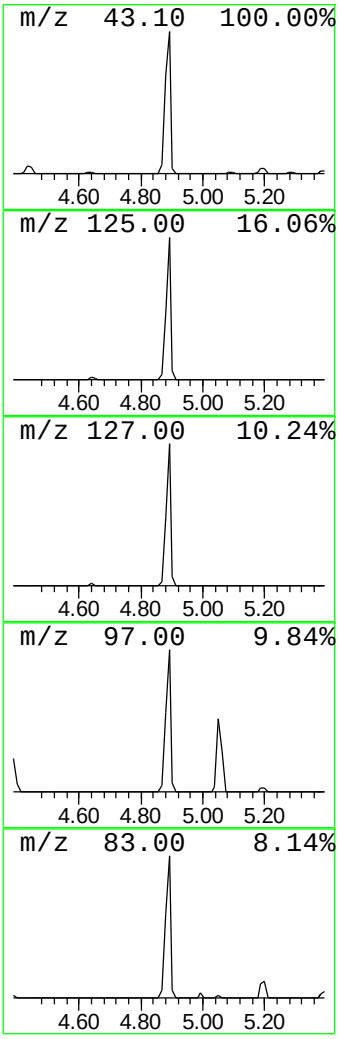
****

Peak Number 6 2-Propanone, 1,1,1-trichloro- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.89	32.86 ng	665773	1,4-Dichlorobenzene-d4	6.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanone, 1,1,1-trichloro-	160	C3H3Cl3O	000918-00-3	64
2	1-Bromo-1,1-dichloro-2-propanone	204	C3H3BrCl2O	001751-16-2	38
3	N-Acetylpyrrolidone	127	C6H9NO2	000932-17-2	27
4	Ethanol, 2,2,2-trichloro-	148	C2H3Cl3O	000115-20-8	12
5	Trichloroacetic acid, propyl ester	204	C5H7Cl3O2	013313-91-2	12





Library Search Compound Report

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Data File : BF088849.D
Acq On : 9 Jul 2016 3:12
Operator : UM/SJ
Sample : H3813-18 50X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P001-TL001-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

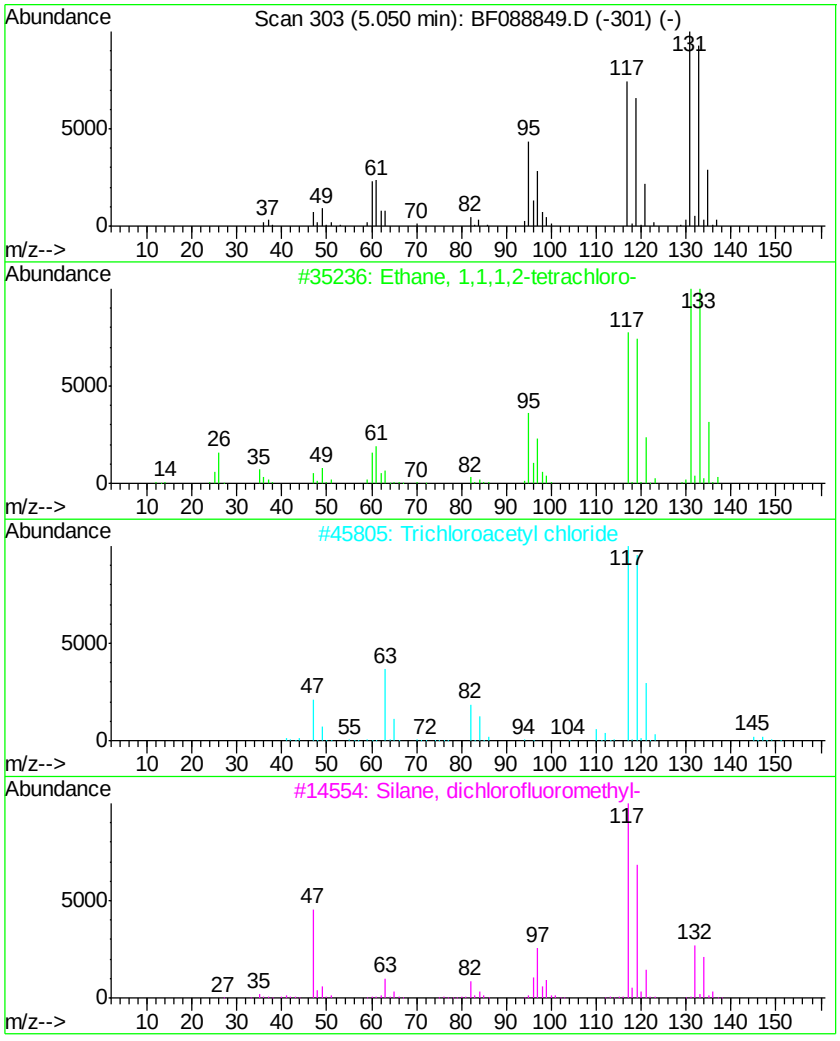
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

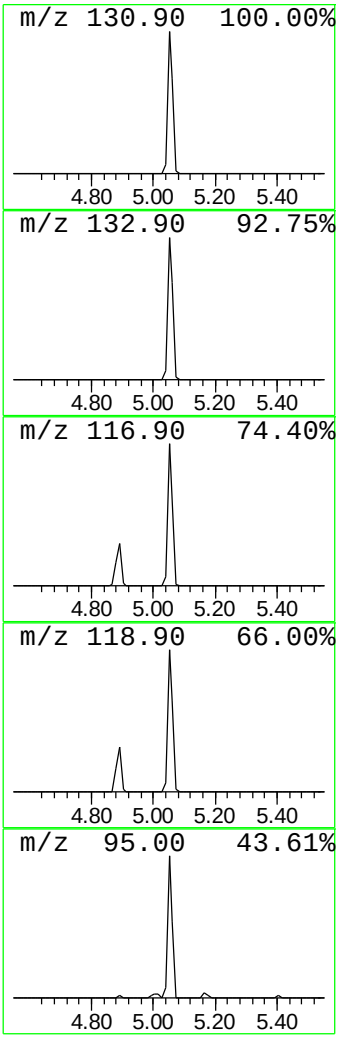
****

Peak Number 7 Ethane, 1,1,1,2-tetrachloro- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.05	15.59 ng	315846	1,4-Dichlorobenzene-d4	6.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,1,1,2-tetrachloro-	166	C2H2Cl4	000630-20-6	91
2	Trichloroacetyl chloride	180	C2Cl4O	000076-02-8	18
3	Silane, dichlorofluoromethyl-	132	CH3Cl2FSi	000420-58-6	12
4	Carbon Tetrachloride	152	CCl4	000056-23-5	10
5	Trichloronitromethane	163	CCl3NO2	000076-06-2	10





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Operator : UM/SJ
Sample : H3813-18 50X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P001-TL001-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

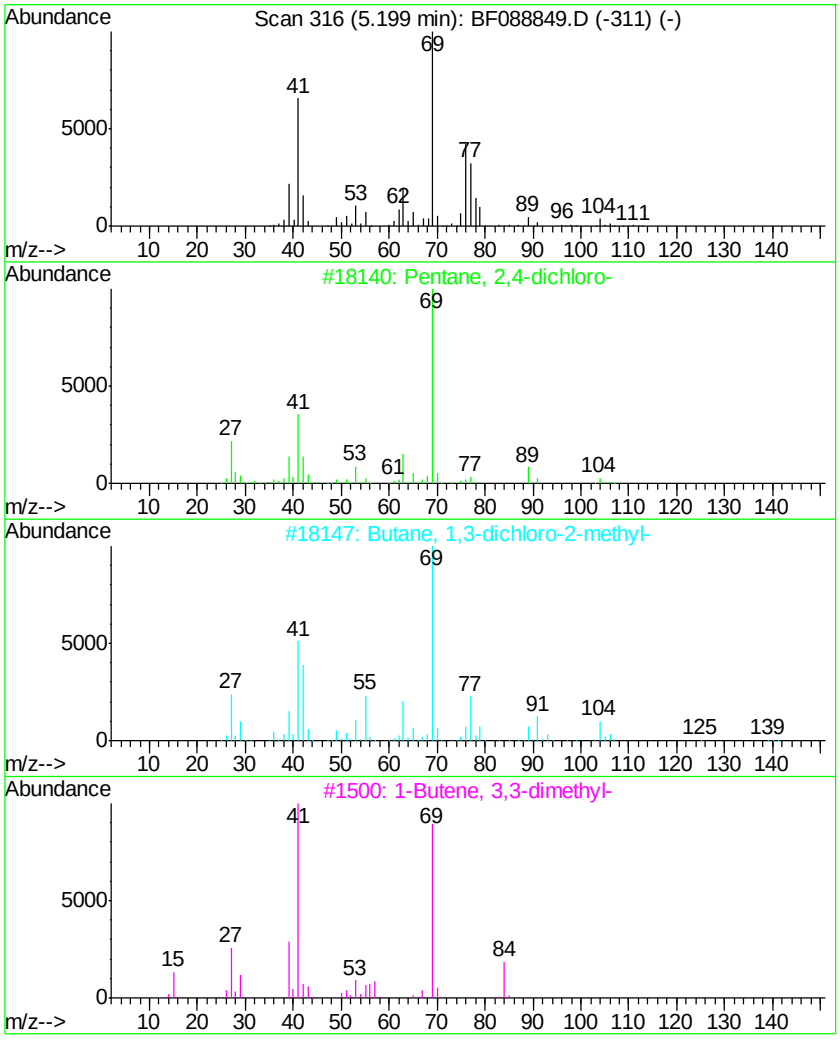
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

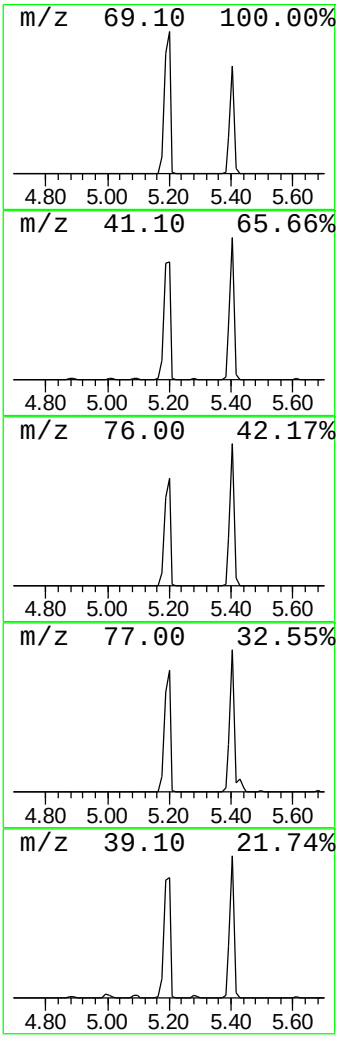
****

Peak Number 8 unknown5.20 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.20	93.03 ng	1884740	1,4-Dichlorobenzene-d4	6.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dichloro-	140	C5H10Cl2	000625-67-2	43
2	Butane, 1,3-dichloro-2-methyl-	140	C5H10Cl2	023010-07-3	40
3	1-Butene, 3,3-dimethyl-	84	C6H12	000558-37-2	16
4	6-Methyl-1,5-heptadiene	110	C8H14	007270-50-0	16
5	3-Methyl-3-chloro-1-butene	104	C5H9Cl	002190-48-9	16





Data Path : V:\HPCHEM1\BNA F\DATA\BF070816\
Data File : BF088849.D
Acq On : 9 Jul 2016 3:12
Operator : UM/SJ
Sample : H3813-18 50X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P001-TL001-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

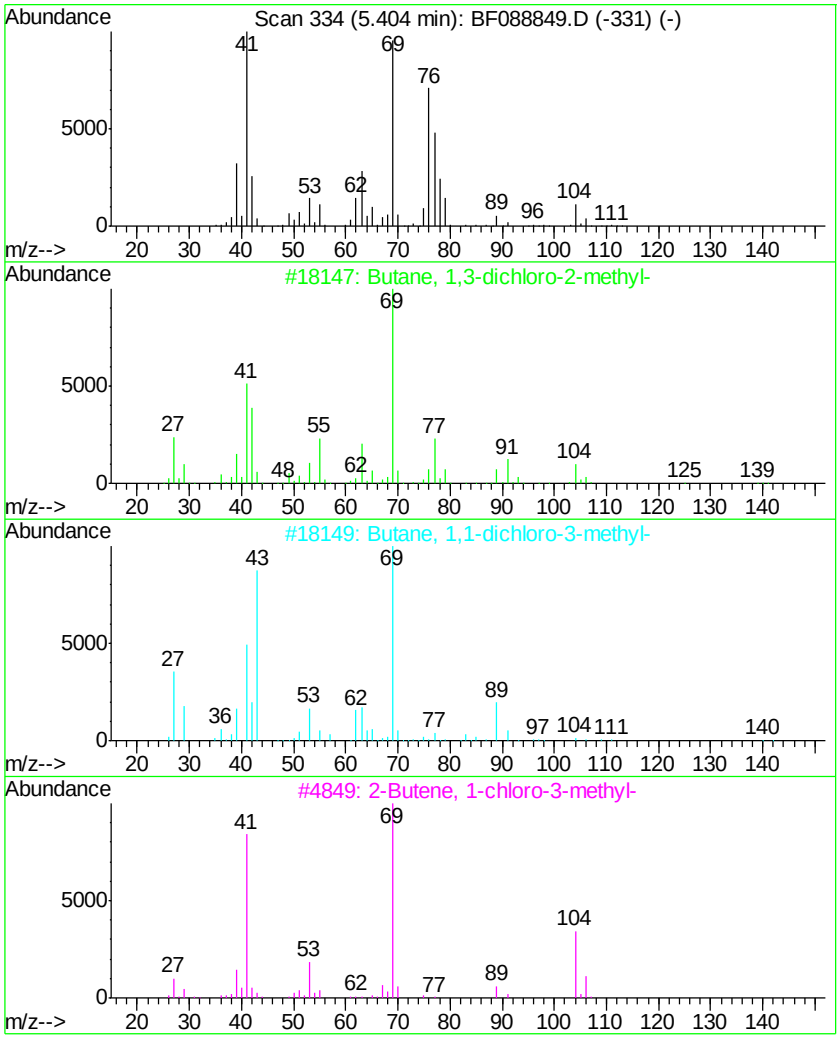
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

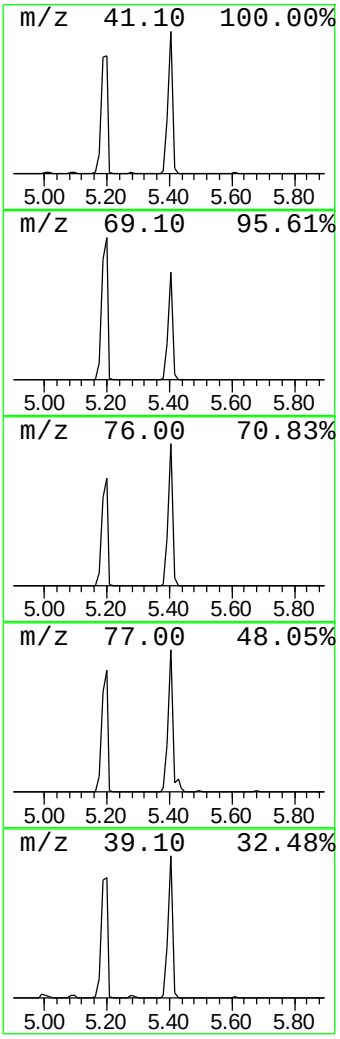
****

Peak Number 9 unknown5.40 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.40	71.59 ng	1450410	1,4-Dichlorobenzene-d4	6.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 1,3-dichloro-2-methyl-	140	C5H10Cl2	023010-07-3	38
2	Butane, 1,1-dichloro-3-methyl-	140	C5H10Cl2	000625-66-1	25
3	2-Butene, 1-chloro-3-methyl-	104	C5H9Cl	000503-60-6	25
4	Butane, 1,3-dichloro-3-methyl-	140	C5H10Cl2	000624-96-4	20
5	Pentane, 2,2-dichloro-	140	C5H10Cl2	034887-14-4	17





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Data File : BF088849.D
Acq On : 9 Jul 2016 3:12
Operator : UM/SJ
Sample : H3813-18 50X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P001-TL001-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

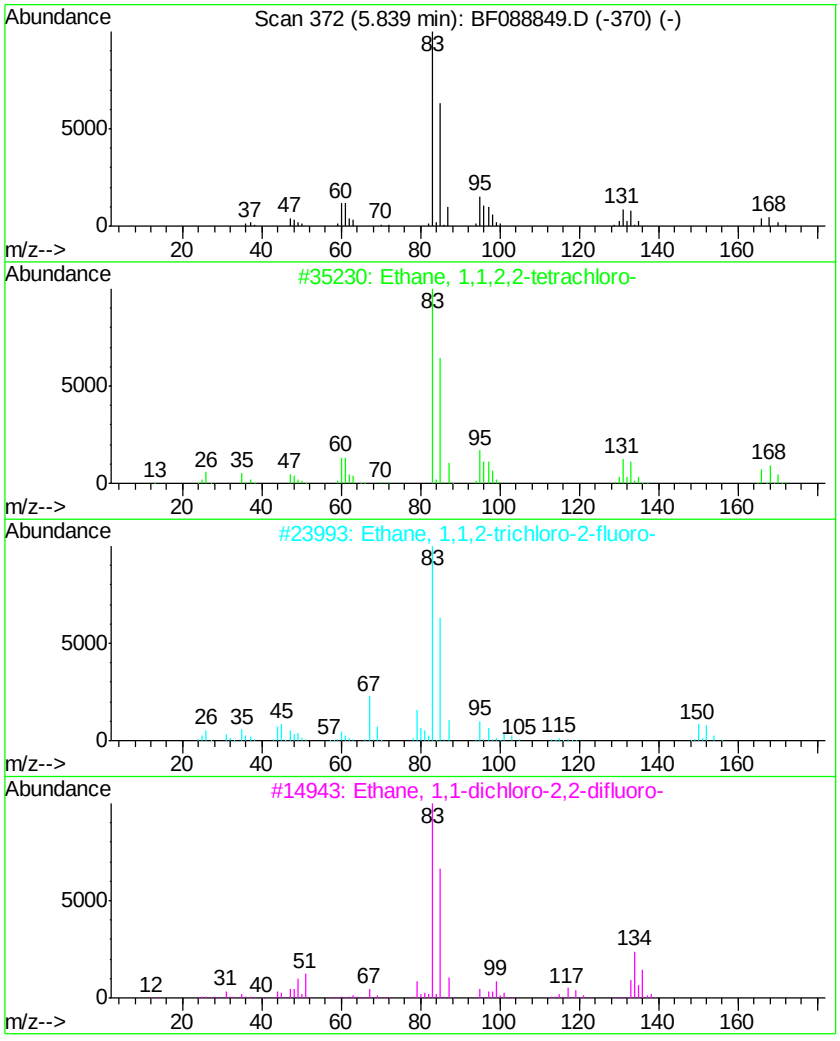
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

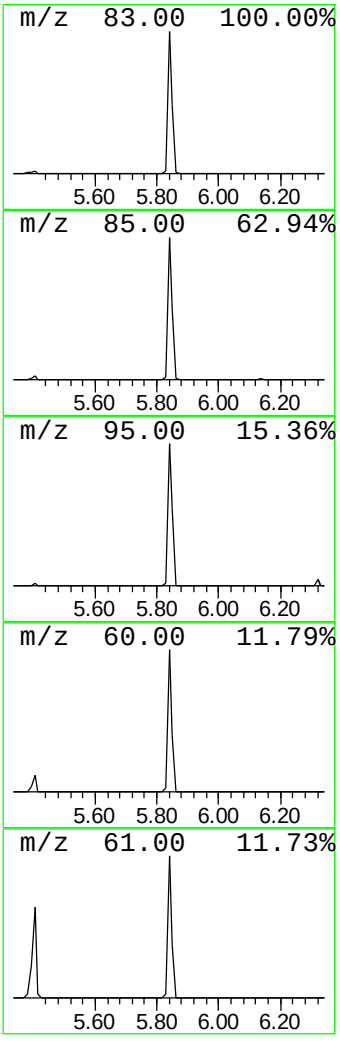
****

Peak Number 10 Ethane, 1,1,2,2-tetrachloro- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.84	18.60 ng	376738	1,4-Dichlorobenzene-d4	6.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	94
2	Ethane, 1,1,2-trichloro-2-fluoro-	150	C2H2Cl3F	000359-28-4	59
3	Ethane, 1,1-dichloro-2,2-difluoro-	134	C2H2Cl2F2	000471-43-2	53
4	Methane, oxybis[dichloro-	182	C2H2Cl4O	020524-86-1	53
5	Ethane, 2,2-dichloro-1,1,1-trifl...	152	C2HCl2F3	000306-83-2	42





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Data File : BF088849.D
Acq On : 9 Jul 2016 3:12
Operator : UM/SJ
Sample : H3813-18 50X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P001-TL001-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

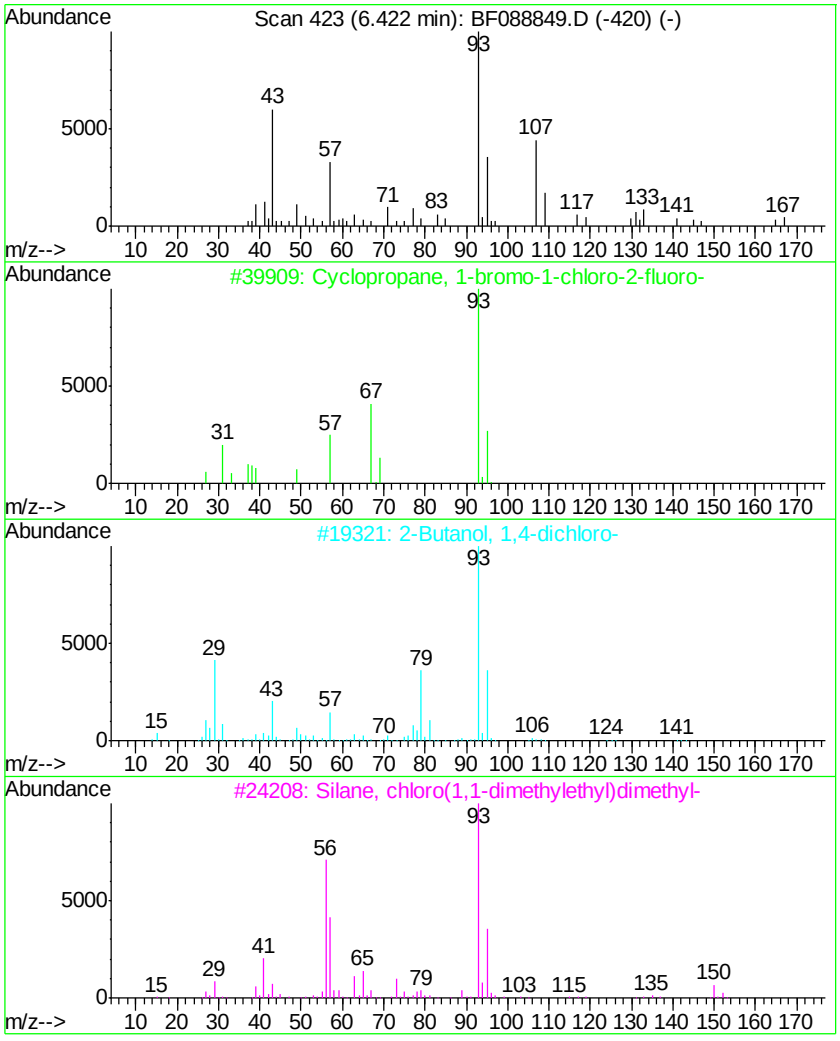
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

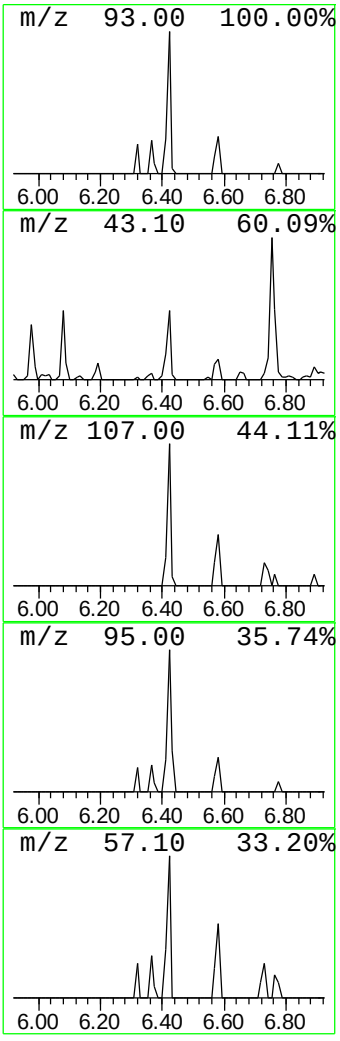
****

Peak Number 11 unknown6.42 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.42	4.01 ng	81225	1,4-Dichlorobenzene-d4	6.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopropane, 1-bromo-1-chloro-2...	172	C3H3BrClF	024071-59-8	28
2	2-Butanol, 1,4-dichloro-	142	C4H8Cl2O	002419-74-1	28
3	Silane, chloro(1,1-dimethylethyl...	150	C6H15ClSi	018162-48-6	25
4	Allylchlorodimethylsilane	134	C5H11ClSi	004028-23-3	25
5	3-Pyrrolidinecarboxylic acid, 5-...	220	C11H12N2O3	1000337-74-3	16





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Acq On : 9 Jul 2016 3:12
Operator : UM/SJ
Sample : H3813-18 50X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P001-TL001-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.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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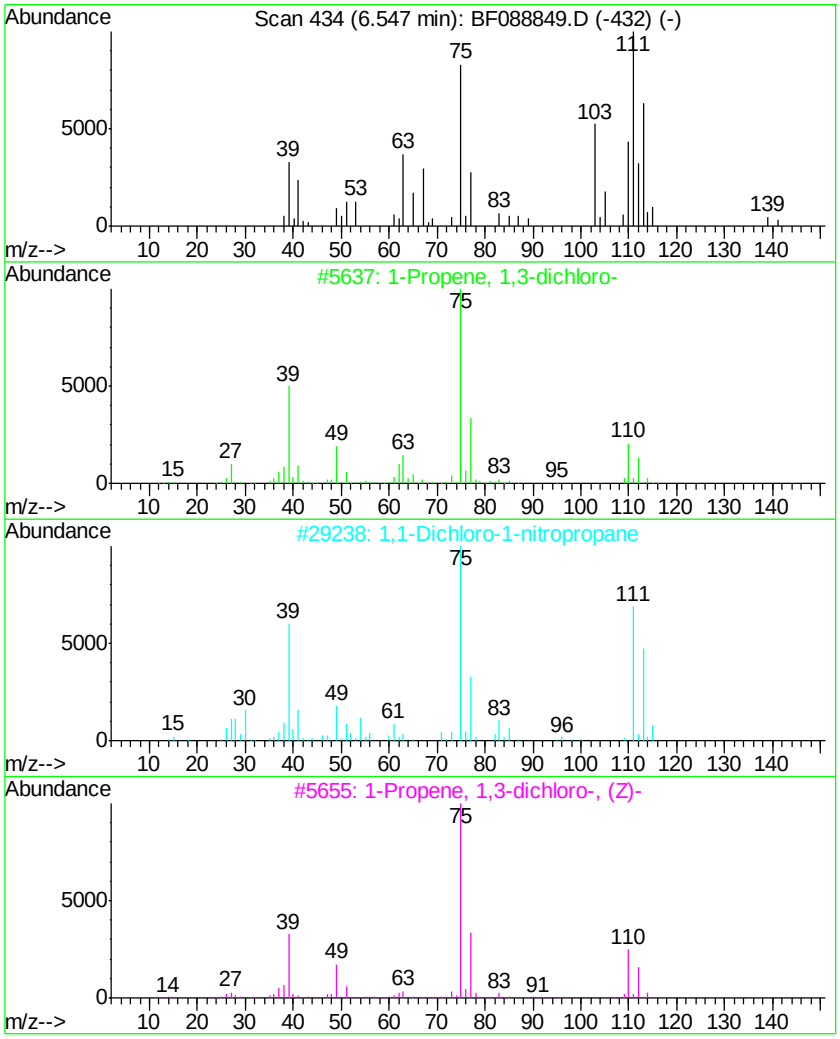
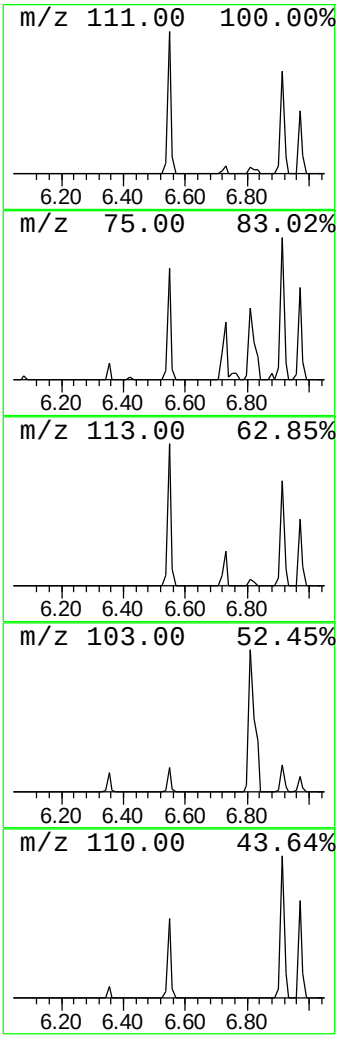
Peak Number 12 1-Propene, 1,3-dichloro- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.55	4.17 ng	84562	1,4-Dichlorobenzene-d4	6.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propene, 1,3-dichloro-	110	C3H4Cl2	000542-75-6	50
2	1,1-Dichloro-1-nitropropane	157	C3H5Cl2NO2	1000370-35-4	50
3	1-Propene, 1,3-dichloro-, (Z)-	110	C3H4Cl2	010061-01-5	45
4	1-Propene, 1,1-dichloro-	110	C3H4Cl2	000563-58-6	38
5	Propane, 1,2,3-trichloro-2-methyl-	160	C4H7Cl3	001871-58-5	38





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Sample : H3813-18 50X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P001-TL001-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
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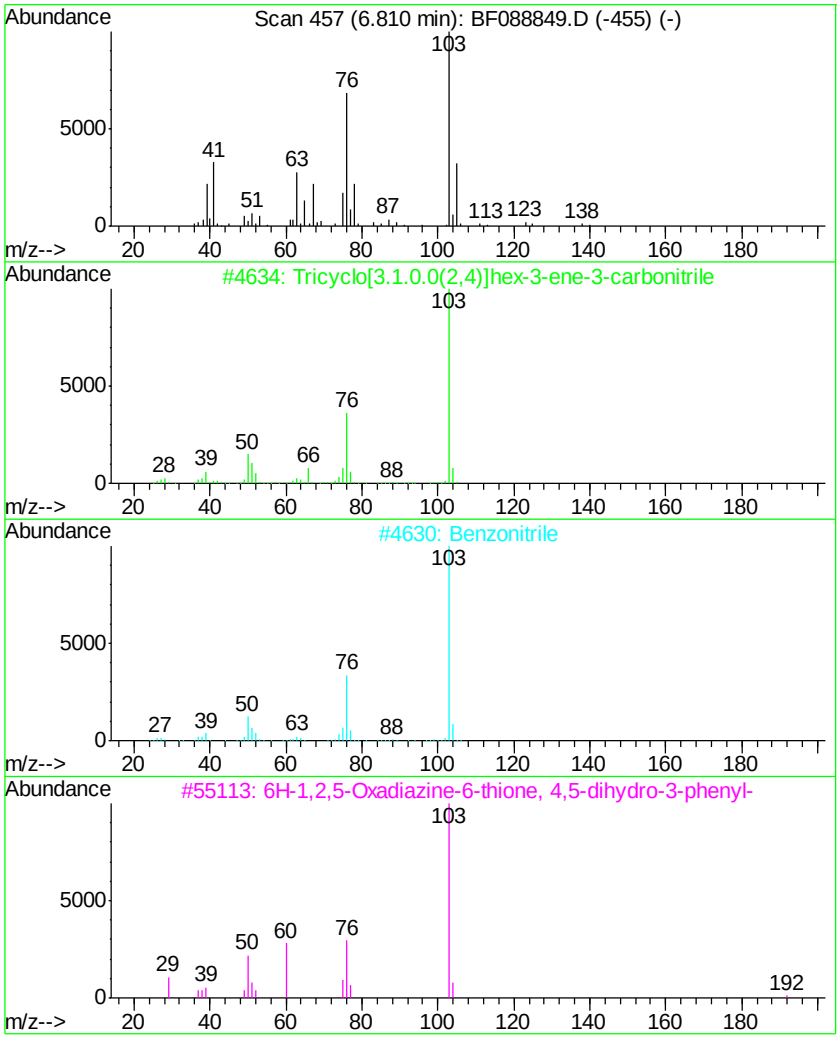
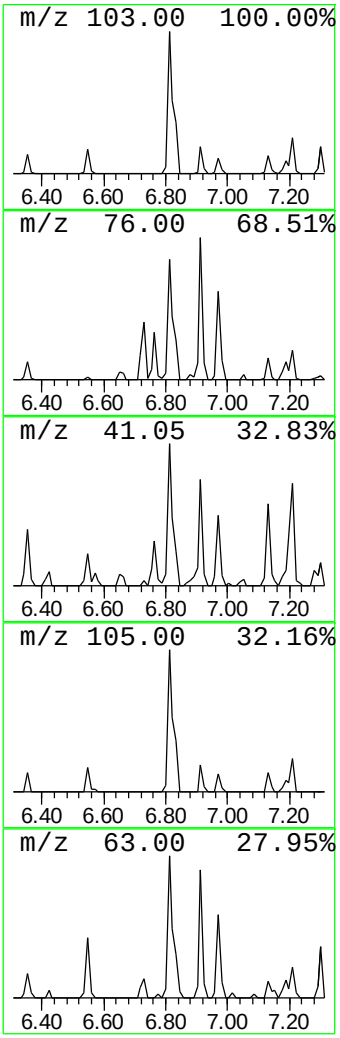
Peak Number 13 unknown6.81 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.81	13.45 ng	272424	1,4-Dichlorobenzene-d4	6.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricyclo[3.1.0.0(2,4)]hex-3-ene-...	103	C7H5N	103495-51-8	38
2	Benzonitrile	103	C7H5N	000100-47-0	32
3	6H-1,2,5-Oxadiazine-6-thione, 4,...	192	C9H8N2OS	033406-07-4	23
4	Sulfoxide, 2-chloroethyl vinyl	138	C4H7ClOS	040709-82-8	9
5	Propane, 1,3-dichloro-	112	C3H6Cl2	000142-28-9	9





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Acq On : 9 Jul 2016 3:12
Operator : UM/SJ
Sample : H3813-18 50X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P001-TL001-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.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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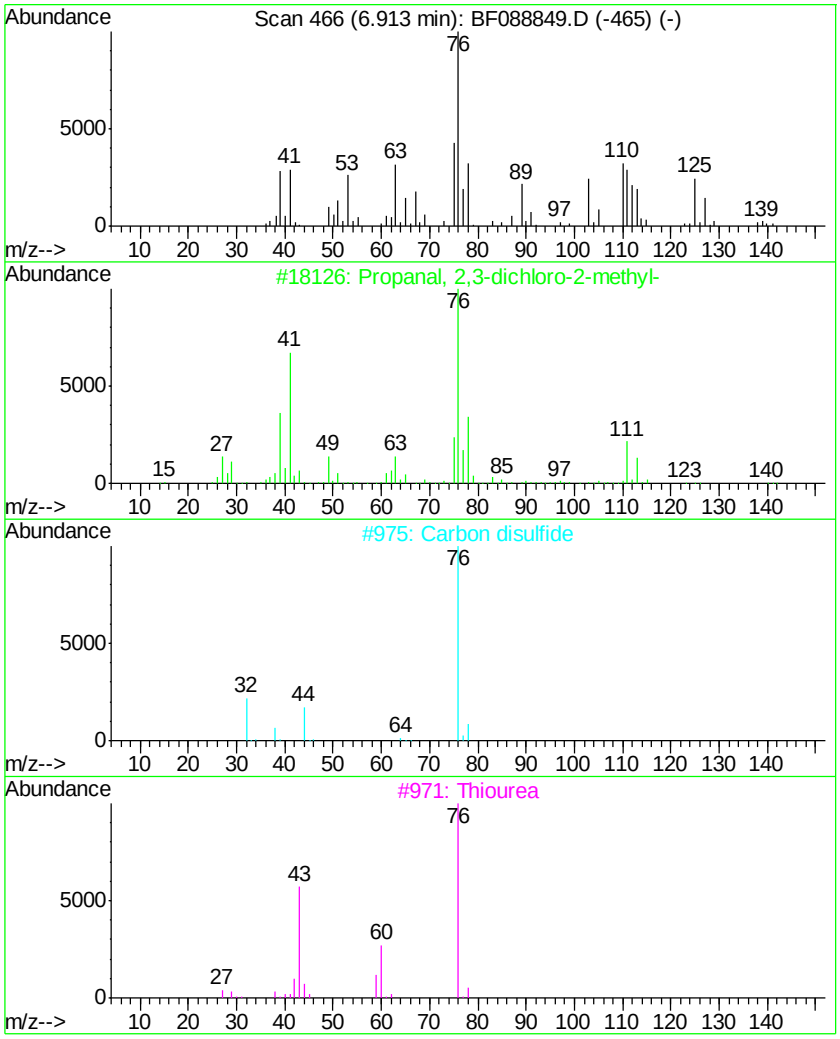
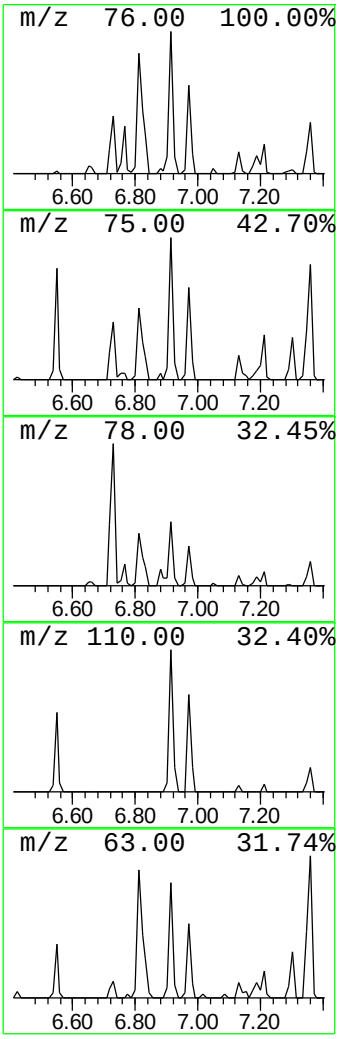
Peak Number 14 Propanal, 2,3-dichloro-2-me... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.91	9.74 ng	197309	1,4-Dichlorobenzene-d4	6.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propanal, 2,3-dichloro-2-methyl-	140	C4H6Cl2O	010141-22-7	53
2	Carbon disulfide	76	CS2	000075-15-0	4
3	Thiourea	76	CH4N2S	000062-56-6	4
4	(R,R)-Tartaric acid	150	C4H6O6	000087-69-4	4
5	Pyridine, 3-chloro-2-nitro-	158	C5H3ClN2O2	054231-32-2	4





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Acq On : 9 Jul 2016 3:12
Operator : UM/SJ
Sample : H3813-18 50X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P001-TL001-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.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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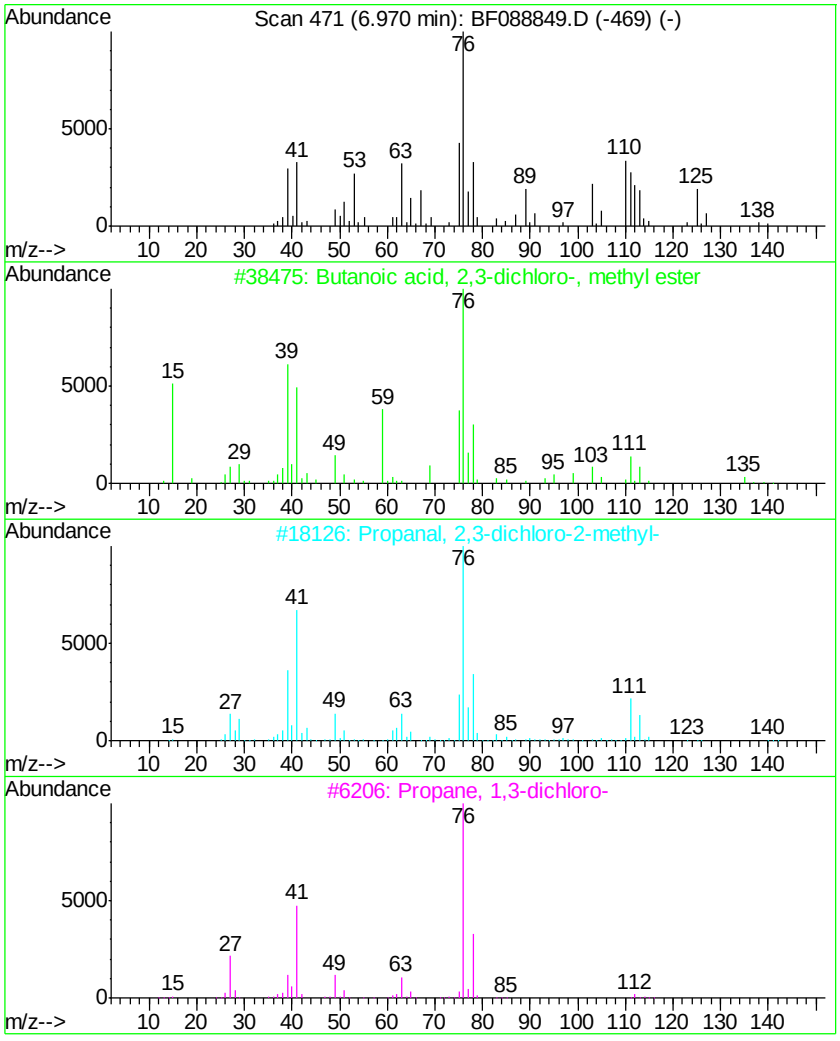
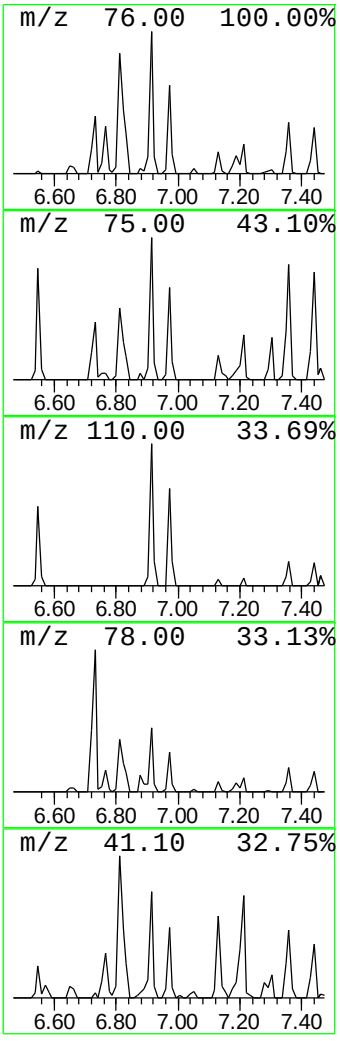
Peak Number 15 Butanoic acid, 2,3-dichloro... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.97	6.80 ng	137835	1,4-Dichlorobenzene-d4	6.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanoic acid, 2,3-dichloro-, me...	170	C5H8Cl2O2	054460-97-8	64
2	Propanal, 2,3-dichloro-2-methyl-	140	C4H6Cl2O	010141-22-7	45
3	Propane, 1,3-dichloro-	112	C3H6Cl2	000142-28-9	33
4	Carbon disulfide	76	CS2	000075-15-0	4
5	Thiourea	76	CH4N2S	000062-56-6	4





Data Path : V:\HPCHEM1\BNA F\DATA\BF070816\
Data File : BF088849.D
Acq On : 9 Jul 2016 3:12
Operator : UM/SJ
Sample : H3813-18 50X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P001-TL001-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

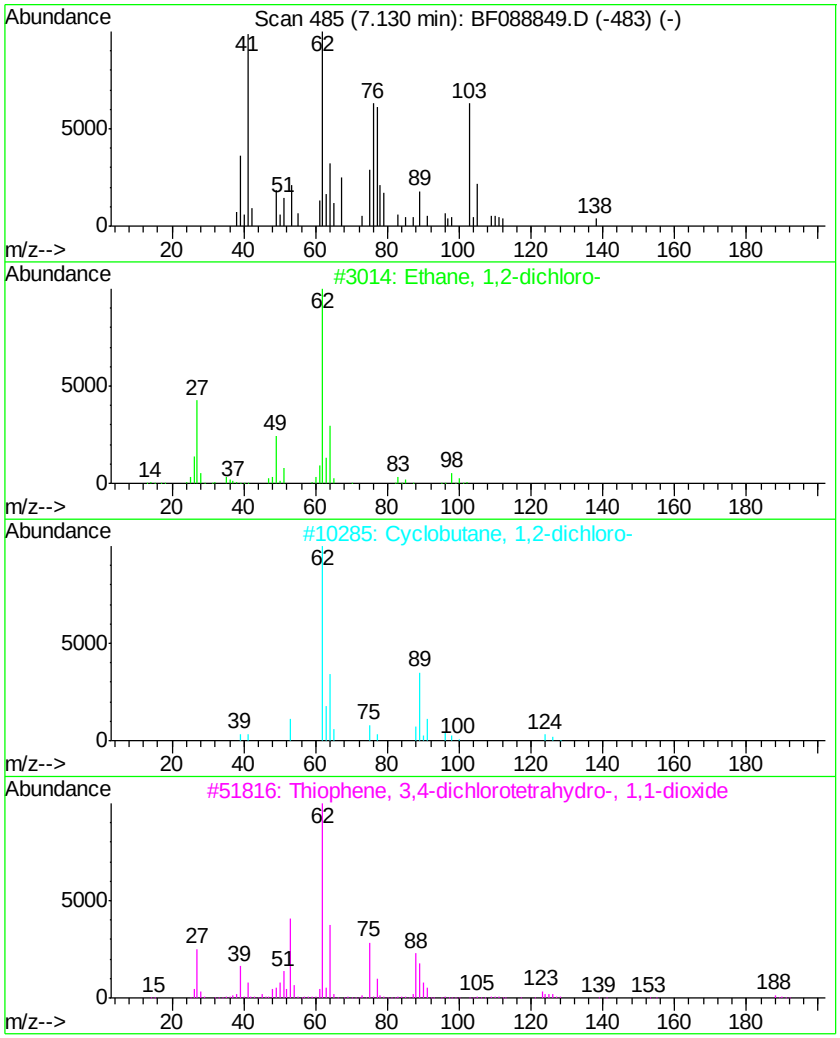
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

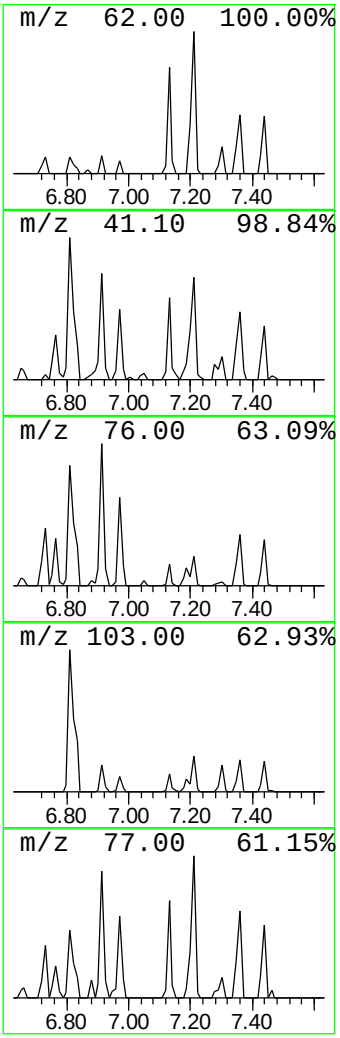
****

Peak Number 16 Ethane, 1,2-dichloro- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.13	3.49 ng	70735	1,4-Dichlorobenzene-d4	6.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,2-dichloro-	98	C2H4Cl2	000107-06-2	52
2	Cyclobutane, 1,2-dichloro-	124	C4H6Cl2	017437-39-7	40
3	Thiophene, 3,4-dichlorotetrahydr...	188	C4H6Cl2O2S	003001-57-8	36
4	Ethyl-2,3-Dichloropropionate	170	C5H8Cl2O2	000668-21-3	33
5	Propanamide, 2,3-dichloro-	141	C3H5Cl2NO	019433-84-2	33





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Operator : UM/SJ
Sample : H3813-18 50X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P001-TL001-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
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TIC Library : C:\Database\NIST11.L
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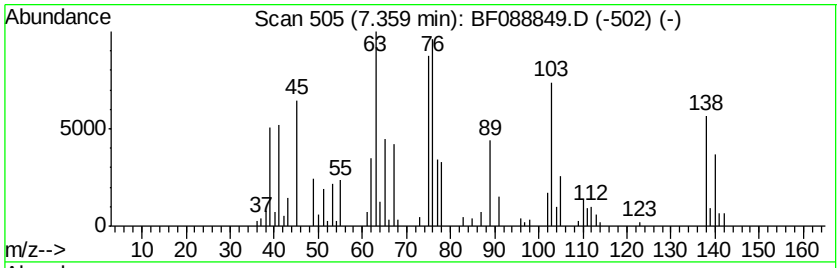
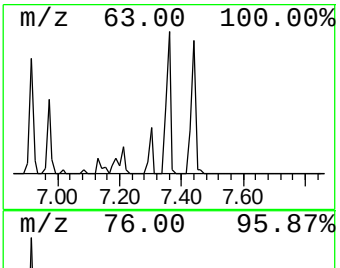
Peak Number 18 unknown7.36 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.36	8.97 ng	181705	1,4-Dichlorobenzene-d4	6.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonochloridic acid, 3-chlorop...	156	C4H6Cl2O2	000628-11-5	43
2	Propanoic acid, 2-chloro-, ethyl...	136	C5H9ClO2	000535-13-7	35
3	Propane, 1,2-dichloro-	112	C3H6Cl2	000078-87-5	32
4	Ethene, (2-chloroethoxy)-	106	C4H7ClO	000110-75-8	25
5	Propane, 1,1,2-trichloro-	146	C3H5Cl3	000598-77-6	17





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Acq On : 9 Jul 2016 3:12
Operator : UM/SJ
Sample : H3813-18 50X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P001-TL001-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.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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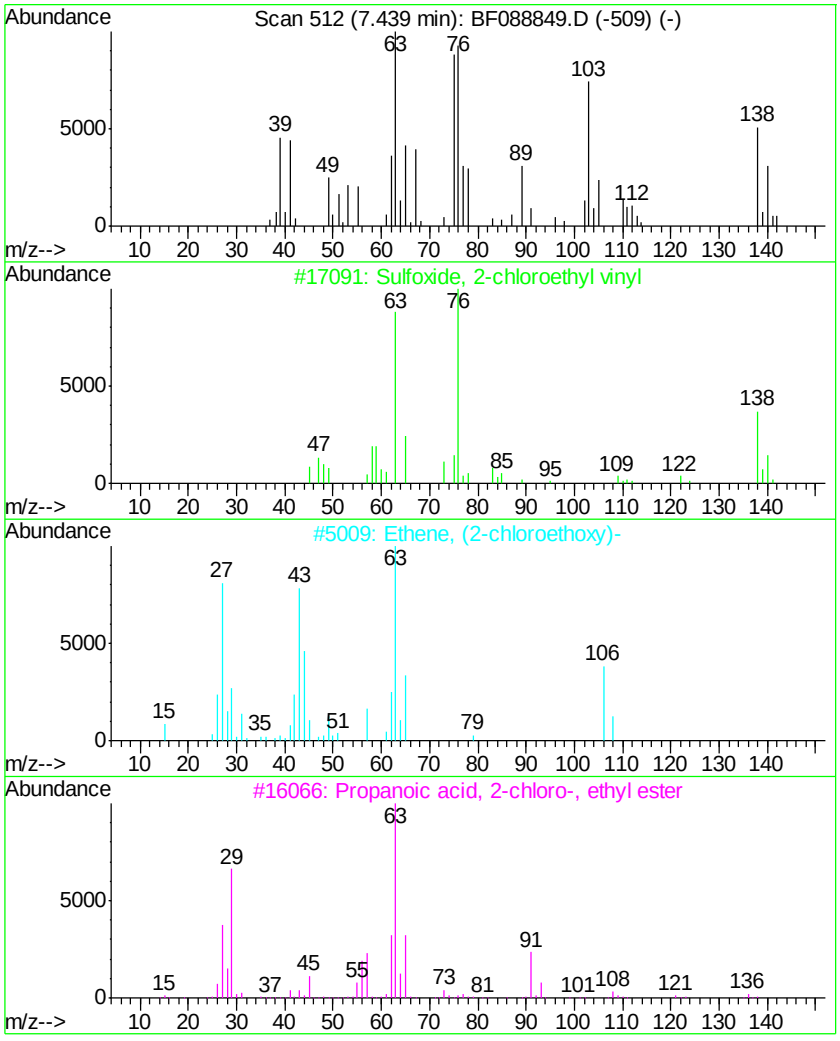
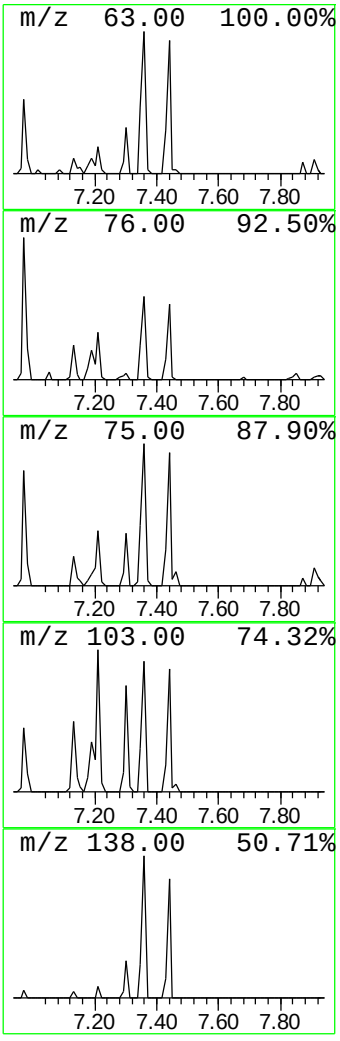
Peak Number 19 unknown7.44 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.44	4.69 ng	126186	Naphthalene-d8	8.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfoxide, 2-chloroethyl vinyl	138	C4H7ClOS	040709-82-8	47
2	Ethene, (2-chloroethoxy)-	106	C4H7ClO	000110-75-8	25
3	Propanoic acid, 2-chloro-, ethyl...	136	C5H9ClO2	000535-13-7	25
4	Propane, 1,1,2-trichloro-	146	C3H5Cl3	000598-77-6	12
5	Ethanesulfonyl chloride, 2-chloro-	162	C2H4Cl2O2S	001622-32-8	12





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Sample : H3813-18 50X
Misc :
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Instrument : BNA_F
ClientSampleId : P001-TL001-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
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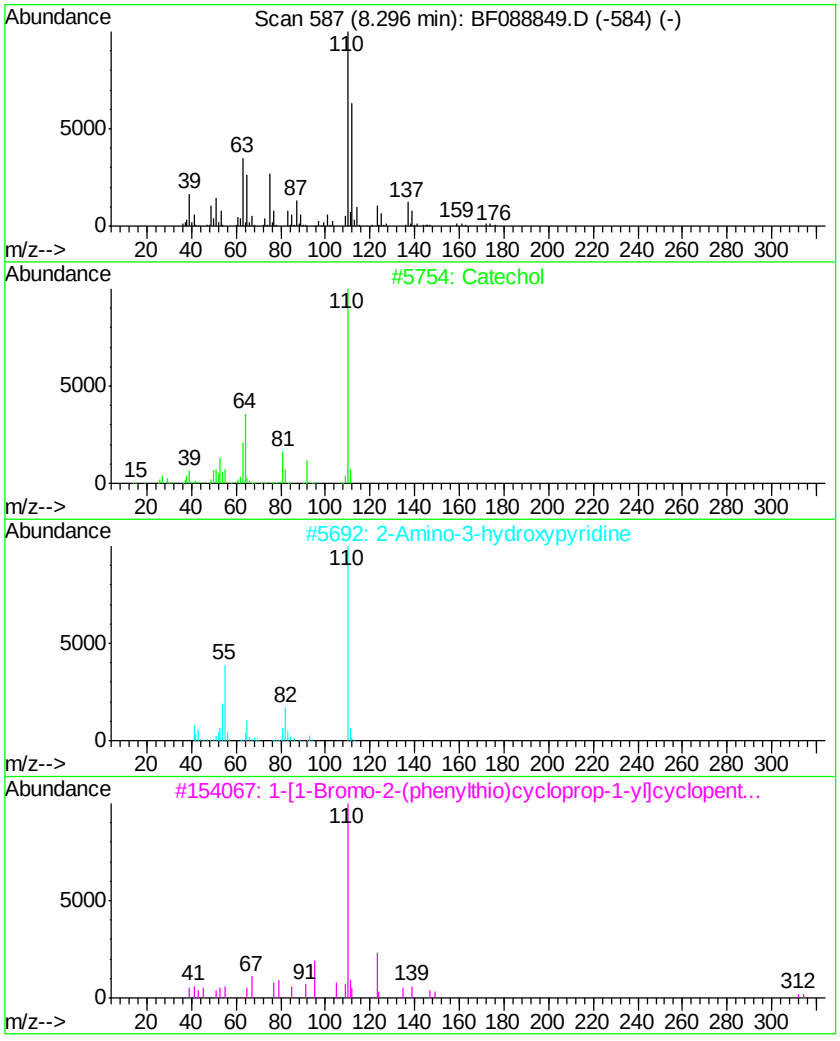
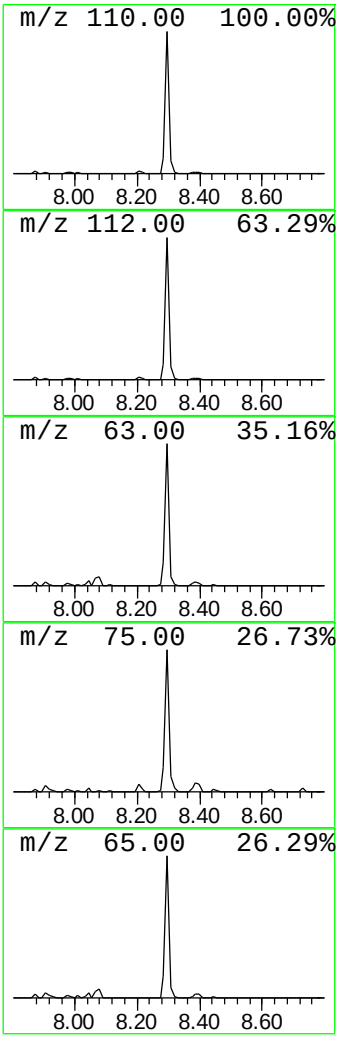
Peak Number 20 unknown8.30 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.30	20.56 ng	553703	Naphthalene-d8	8.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Catechol	110	C6H6O2	000120-80-9	17
2	2-Amino-3-hydroxypyridine	110	C5H6N2O	016867-03-1	12
3	1-[1-Bromo-2-(phenylthio)cyclopr...	312	C14H17BrOS	1000139-16-7	12
4	4-[3,4-Dichlorophenyl]-N-[3-[1-p...	466	C18H19Cl5N4	1000213-83-8	12
5	Hydroquinone	110	C6H6O2	000123-31-9	12





Tentatively Identified Compound (LSC) summary

Data Path : V:\HPCHEM1\BNA_F\DATA\BF070816\
Data File : BF088849.D
Acq On : 9 Jul 2016 3:12
Operator : UM/SJ
Sample : H3813-18 50X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument : BNA_F
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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
2-Propanone, 1-ch...	1.90	69.9	ng	1416950	1	6.73	405189	20.0
Propane, 1,1-dich...	1.93	7.7	ng	155022	1	6.73	405189	20.0
2-Propanone, 1,1-...	2.76	7.9	ng	160834	1	6.73	405189	20.0
Butane, 2,3-dichl...	4.64	9.7	ng	196357	1	6.73	405189	20.0
2-Propanone, 1,1,...	4.89	32.9	ng	665773	1	6.73	405189	20.0
Ethane, 1,1,1,2-t...	5.05	15.6	ng	315846	1	6.73	405189	20.0
unknown5.20	5.20	93.0	ng	1884740	1	6.73	405189	20.0
unknown5.40	5.40	71.6	ng	1450410	1	6.73	405189	20.0
Ethane, 1,1,2,2-t...	5.84	18.6	ng	376738	1	6.73	405189	20.0
unknown6.42	6.42	4.0	ng	81225	1	6.73	405189	20.0
1-Propene, 1,3-di...	6.55	4.2	ng	84562	1	6.73	405189	20.0
unknown6.81	6.81	13.4	ng	272424	1	6.73	405189	20.0
Propanal, 2,3-dic...	6.91	9.7	ng	197309	1	6.73	405189	20.0
Butanoic acid, 2,...	6.97	6.8	ng	137835	1	6.73	405189	20.0
Ethane, 1,2-dichl...	7.13	3.5	ng	70735	1	6.73	405189	20.0
unknown7.36	7.36	9.0	ng	181705	1	6.73	405189	20.0
unknown7.44	7.44	4.7	ng	126186	2	8.01	538580	20.0
unknown8.30	8.30	20.6	ng	553703	2	8.01	538580	20.0