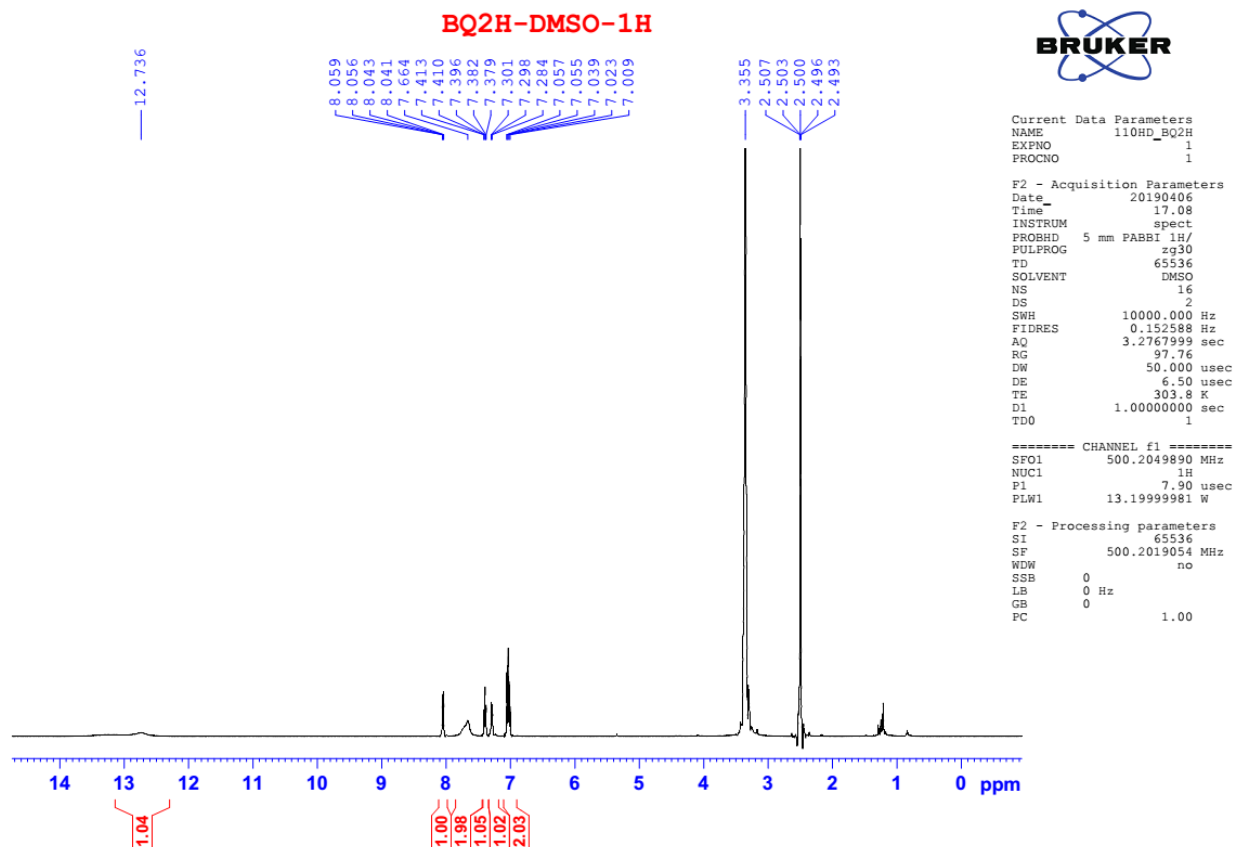


2-(5-Chloro-1H-benzoimidazol-2-yl)-phenol (**15**):

^1H – NMR



^{13}C – NMR

BQ2H-DMSO-C13CPD



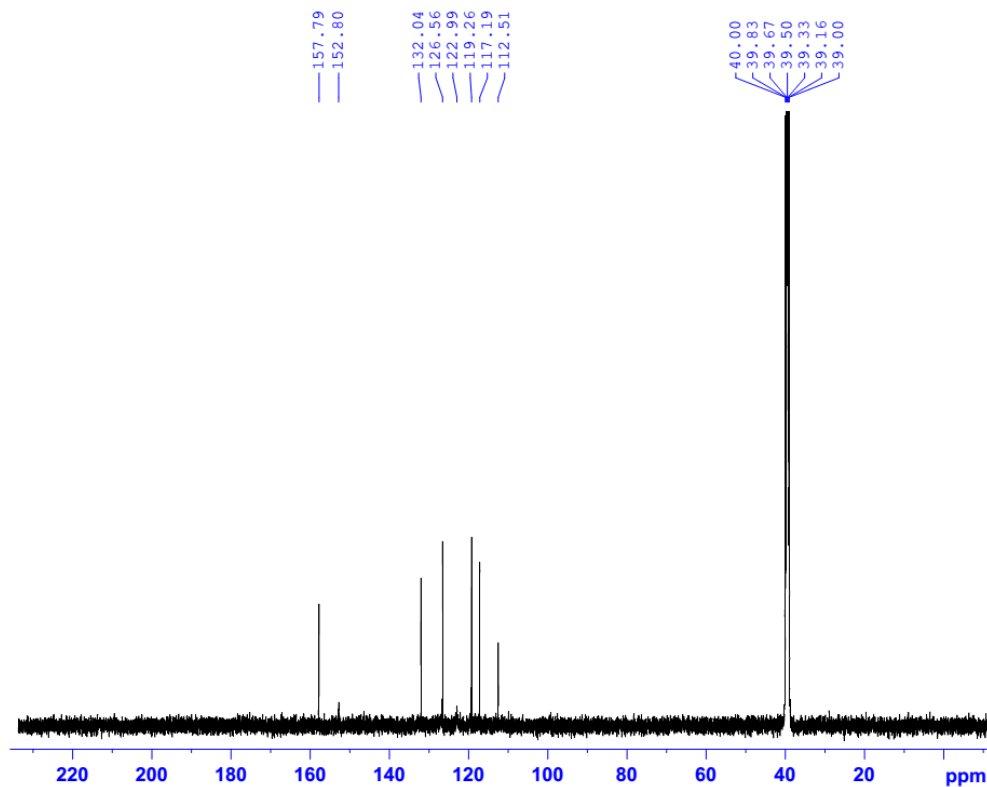
Current Data Parameters
NAME 110HD_BQ2H
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190409
Time 7.05
INSTRUM spect
PROBHD 5 mm PABBI 1H/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 2048
DS 4
SWH 31250.000 Hz
FIDRES 0.476837 Hz
AQ 1.0485760 sec
RG 198.57
DW 16.000 usec
DE 6.50 usec
TE 305.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7897032 MHz
NUC1 ^{13}C
P1 15.40 usec
PLW1 81.00000000 W

===== CHANNEL f2 =====
SFO2 500.2039008 MHz
NUC2 ^1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 13.19999981 W
PLW12 0.12872000 W
PLW13 0.08238100 W

F2 - Processing parameters
SI 32768
SF 125.7759310 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



HRMS

Display Report

Analysis Info

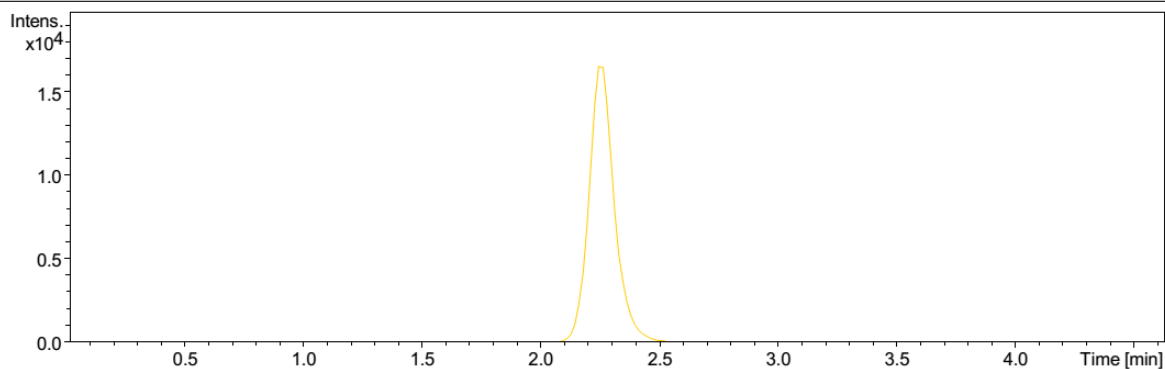
Analysis Name D:\Data\2019\thang 05\BQ2H_1-F,4_01_1753.d
Method protein my mass tb.m
Sample Name BQ2H
Comment

Acquisition Date 6/21/2019 7:30:49 PM

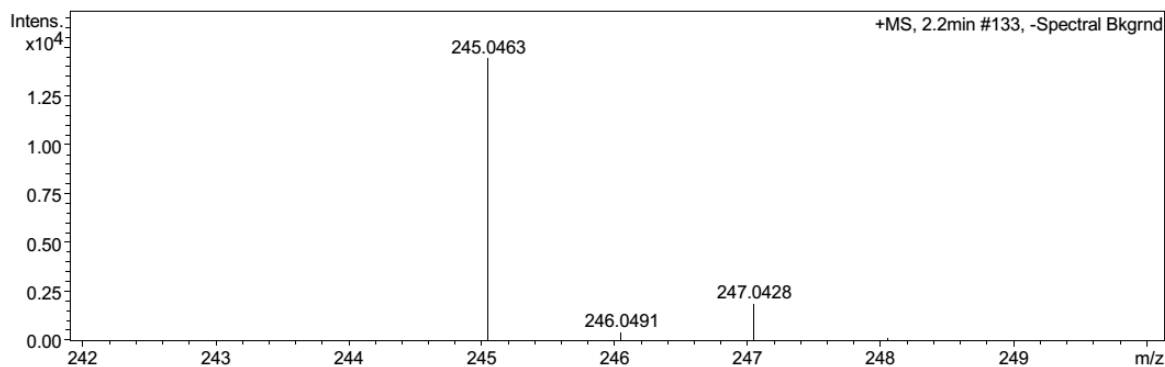
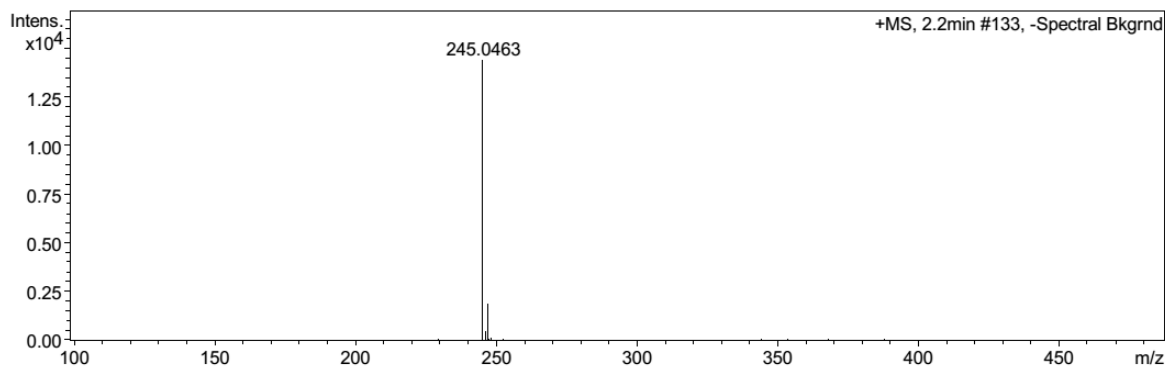
Operator ANH MAI
Instrument micrOTOF-Q 10187

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Not active	Set Capillary	4500 V	Set Dry Heater	200 °C
Scan Begin	100 m/z	Set End Plate Offset	-500 V	Set Dry Gas	6.5 l/min
Scan End	1000 m/z	Set Collision Cell RF	150.0 Vpp	Set Divert Valve	Source

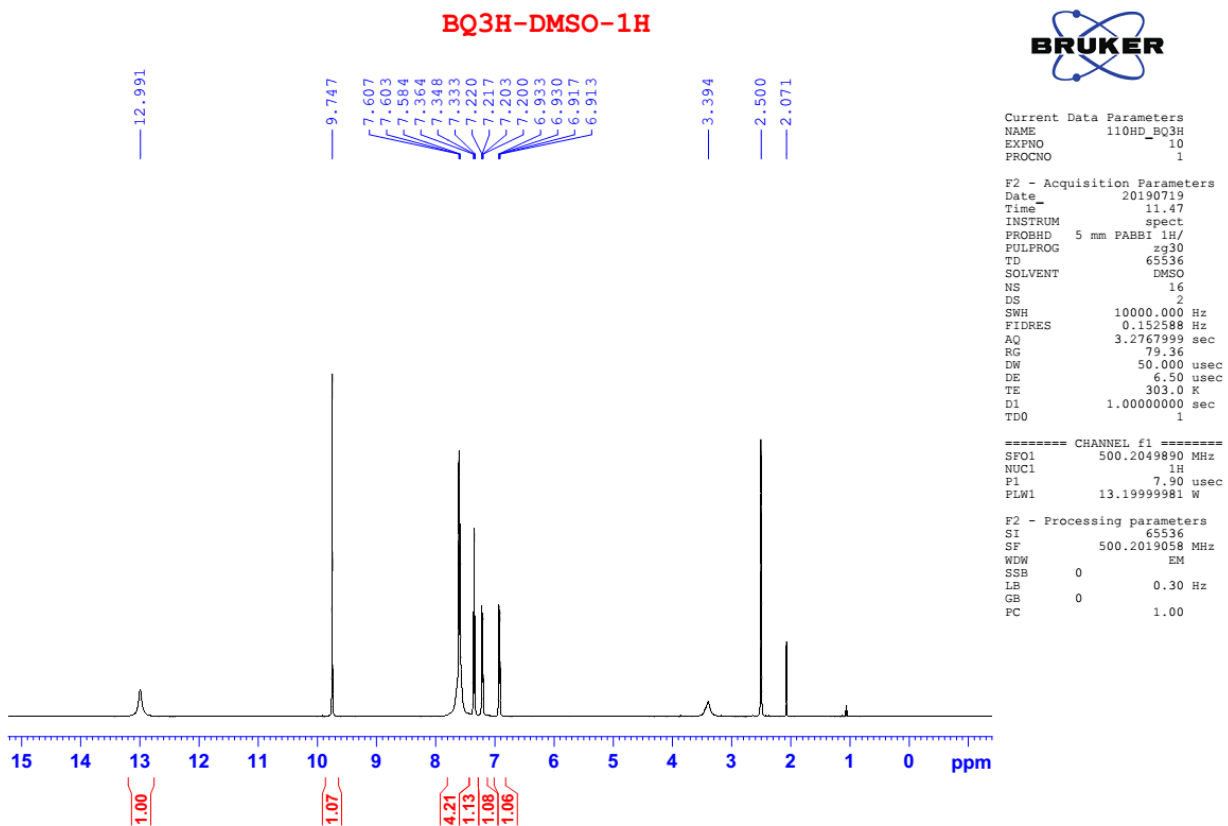


— EIC 245.0000 +All MS, -Spectral Bkgrnd



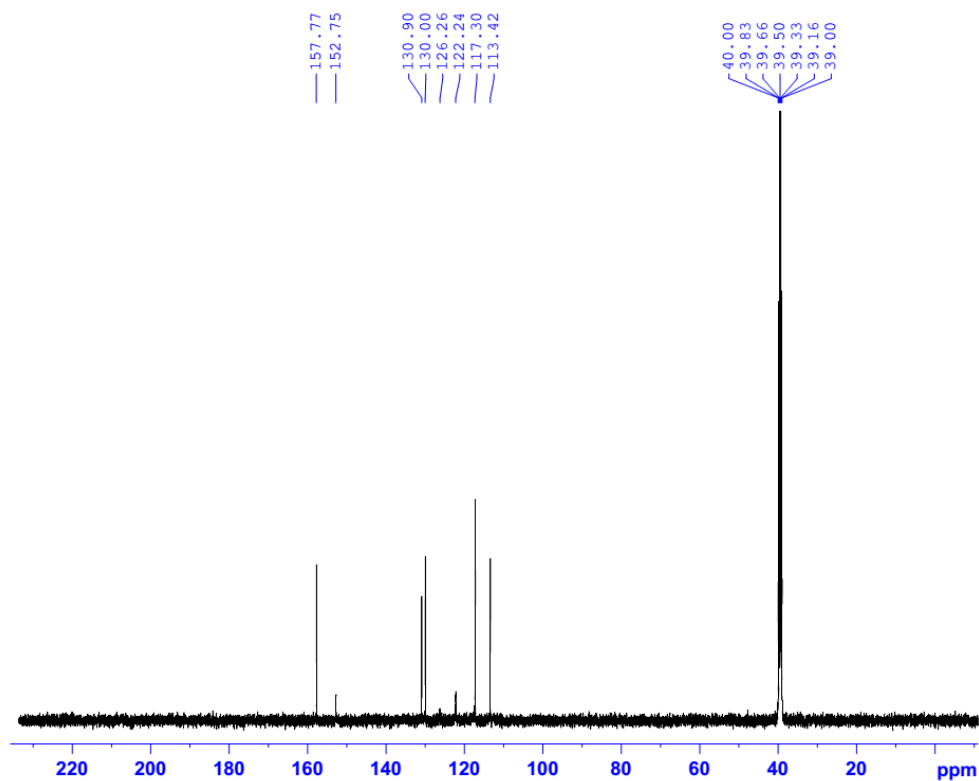
3-(5-Chloro-1H-benzoimidazol-2-yl)-phenol (**16**):

^1H – NMR



^{13}C – NMR

BQ3H-DMSO-C13CPD



Current Data Parameters
NAME 110HD_BQ3H
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190720
Time 22.20
INSTRUM spect
PROBHD 5 mm PABBI 1H/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 128
DS 4
SWH 31250.000 Hz
FIDRES 0.476837 Hz
AQ 1.0485760 sec
RG 198.57
DW 16.000 usec
DE 6.50 usec
TE 303.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7897032 MHz
NUC1 ^{13}C
P1 15.40 usec
PLW1 81.00000000 W

===== CHANNEL f2 =====
SFO2 500.2039008 MHz
NUC2 ^1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 13.19999981 W
PLW12 0.12872000 W
PLW13 0.08238100 W

F2 - Processing parameters
SI 32768
SF 125.7759325 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

Display Report

Analysis Info

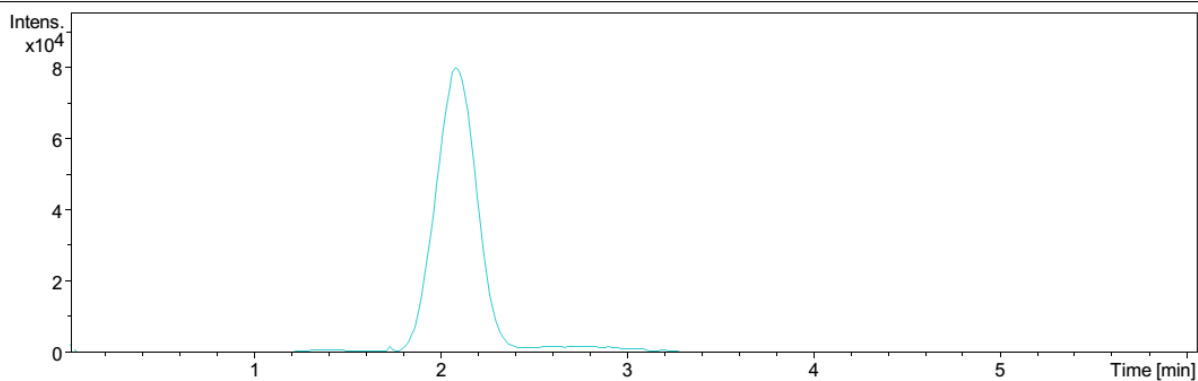
Analysis Name D:\Data\2019\thang 05\BQ3H_2-E,8_01_1724.d
Method protein my mass tb.m
Sample Name BQ3H
Comment

Acquisition Date 6/20/2019 10:00:09 PM

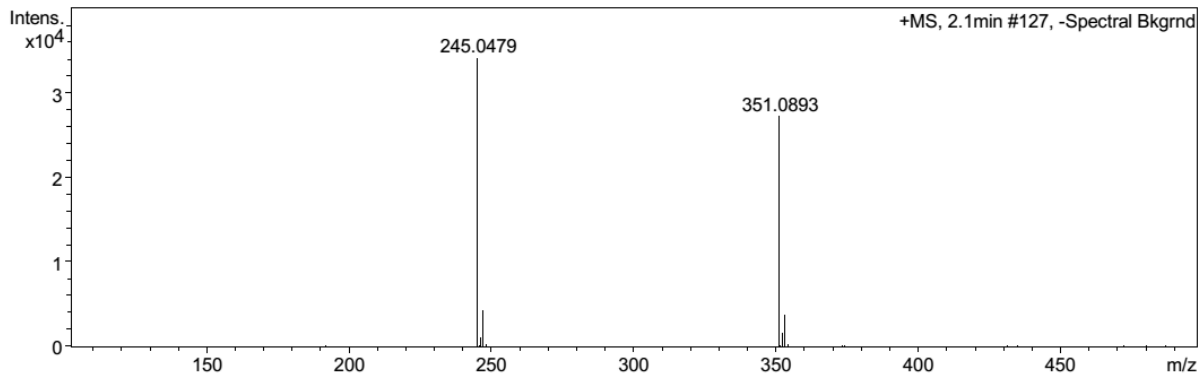
Operator ANH MAI
Instrument micrOTOF-Q 10187

Acquisition Parameter

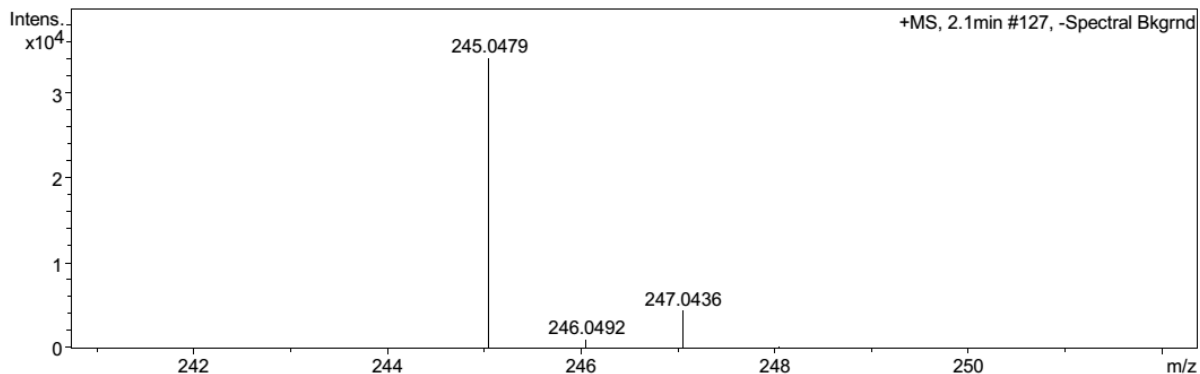
Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Not active	Set Capillary	4500 V	Set Dry Heater	200 °C
Scan Begin	100 m/z	Set End Plate Offset	-500 V	Set Dry Gas	6.5 l/min
Scan End	1000 m/z	Set Collision Cell RF	250.0 Vpp	Set Divert Valve	Source



TIC +All MS, -Spectral Bkgrnd



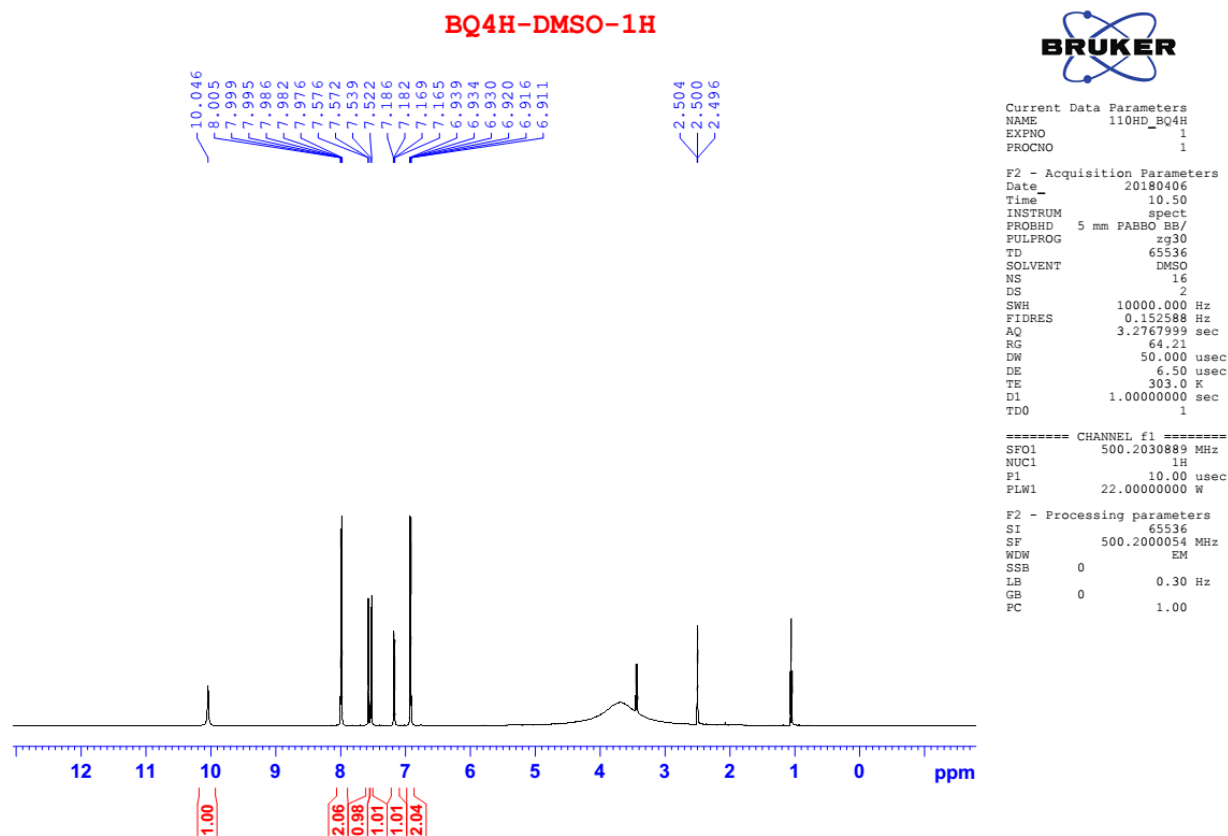
+MS, 2.1min #127, -Spectral Bkgrnd



+MS, 2.1min #127, -Spectral Bkgrnd

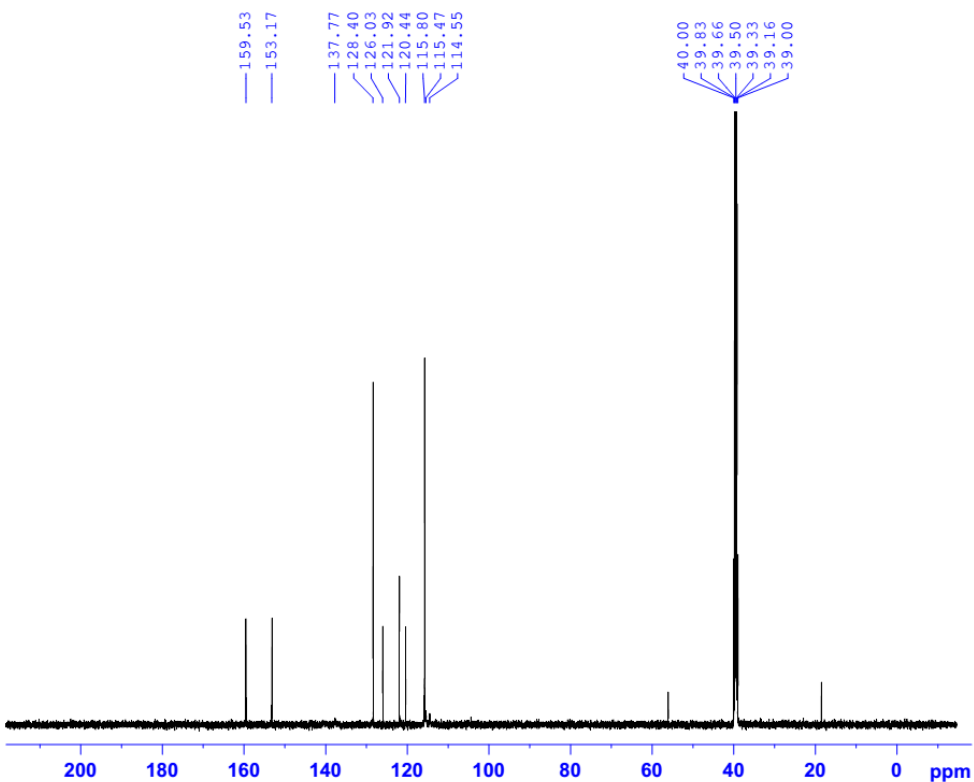
3-(5-Chloro-1H-benzoimidazol-2-yl)-phenol (17):

^1H – NMR



^{13}C – NMR

BQ4H-DMSO-C13CPD



Current Data Parameters
NAME 110HD_BQ4H
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date 20180406
Time 12.07
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 256
DS 4
SWH 31250.000 Hz
FIDRES 0.476837 Hz
AQ 1.0485760 sec
RG 198.57
DW 16.000 usec
DE 6.50 usec
TE 303.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7892253 MHz
NUC1 13C
P1 10.00 usec
PLW1 88.00000000 W

===== CHANNEL f2 =====
SFO2 500.2020008 MHz
NUC2 1H
CFDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 22.00000000 W
PLW12 0.34375000 W
PLW13 0.22000000 W

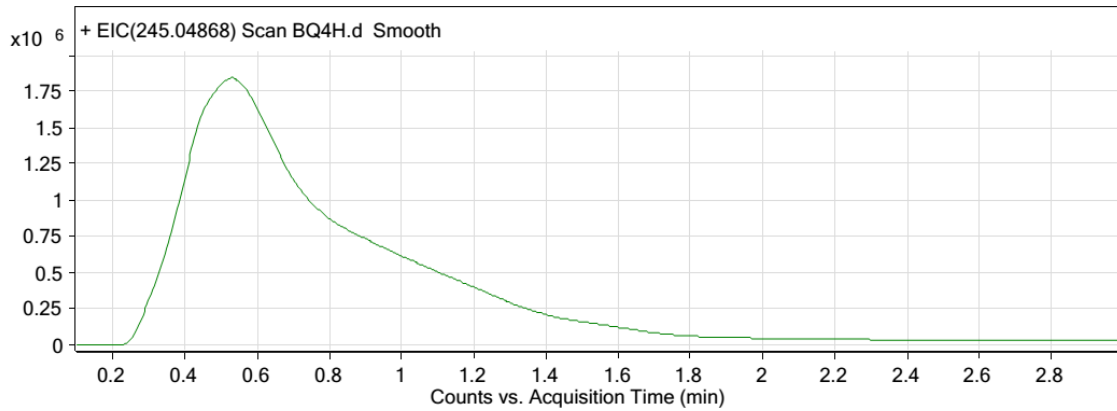
F2 - Processing parameters
SI 32768
SF 125.7754470 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.00

Qualitative Analysis Report

Data File	BQ4H.d	Sample Name	BQ4H
Sample Type	Sample	Position	P1-A8
Instrument Name	Instrument 1	User Name	
Acq Method	All Ion MSMS-Positive-100MeOH.m	Acquired Time	20/05/2018 6:00:21 PM
IRM Calibration Status	Success	DA Method	default.m
Comment			
Sample Group			
Stream Name	LC 1	Info.	
		Acquisition SW Version	6200 series TOF/6500 series Q-TOF B.06.01 (B6172 SP1)

User Chromatograms

Fragmentor Voltage 140 Collision Energy 0 Ionization Mode ESI



User Spectra

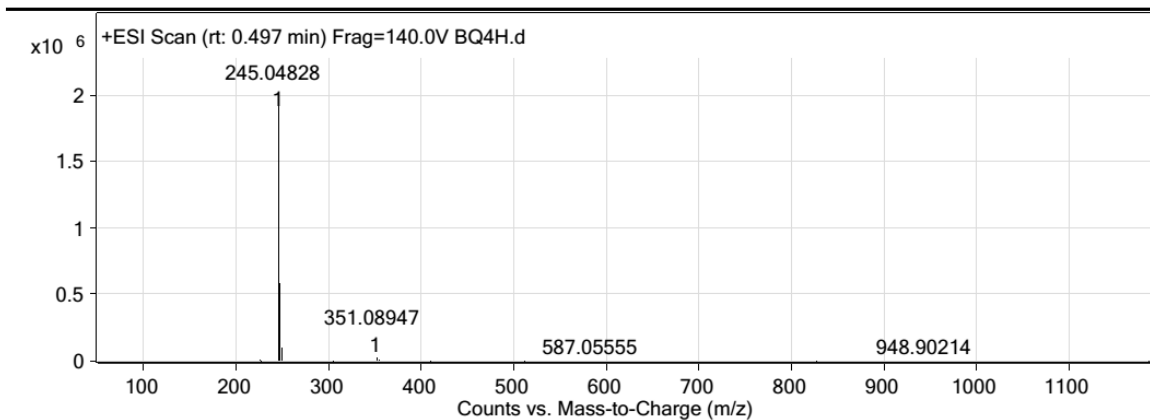
Fragmentor Voltage 140 Collision Energy 0 Ionization Mode ESI



Agilent Technologies

HRMS

Qualitative Analysis Report



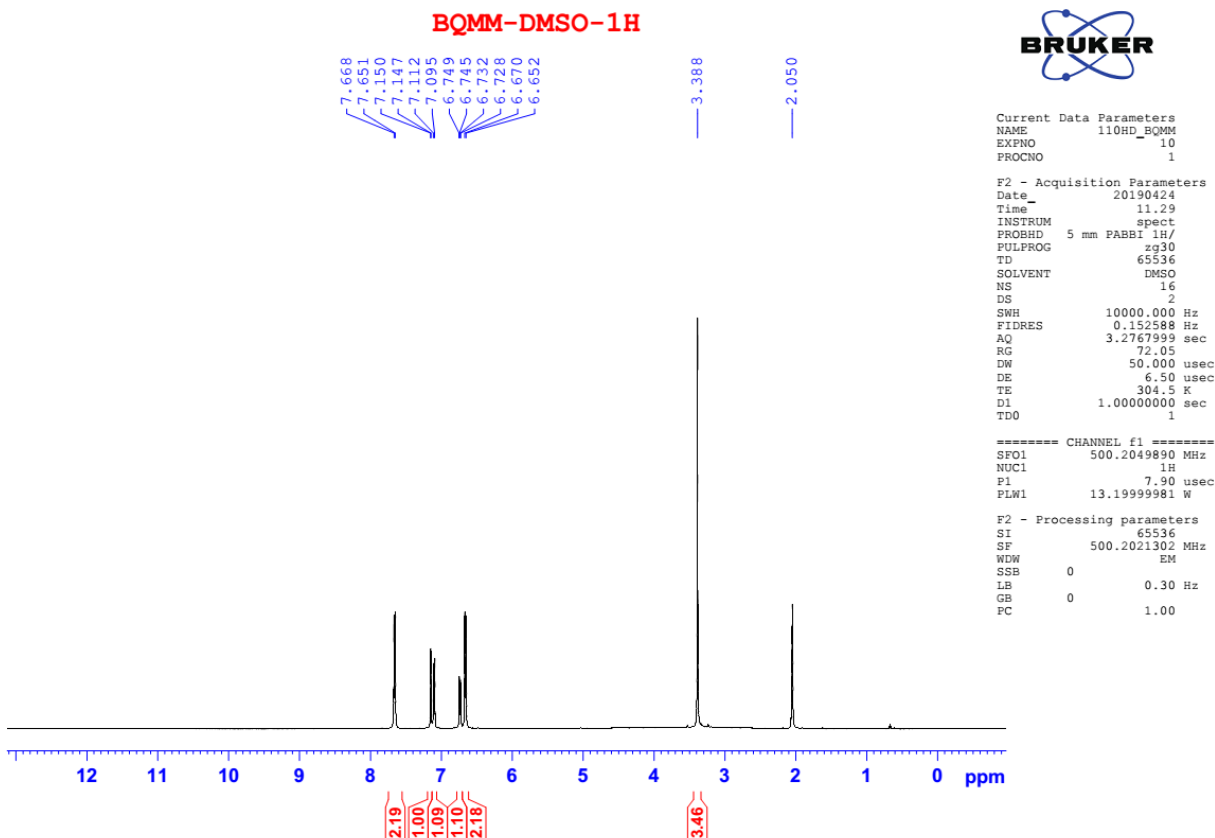
Peak List

m/z	z	Abund
225.10201	1	13228.71
245.04828	1	1961348.38
245.10911	1	145892.56
246.05177	1	254148.91
246.11394	1	17142.88
247.04558	1	586516.38
247.10827	1	45219.25
248.04842	1	92818.61
351.08947	1	28901.58
353.08737	1	8437.04

--- End Of Report ---

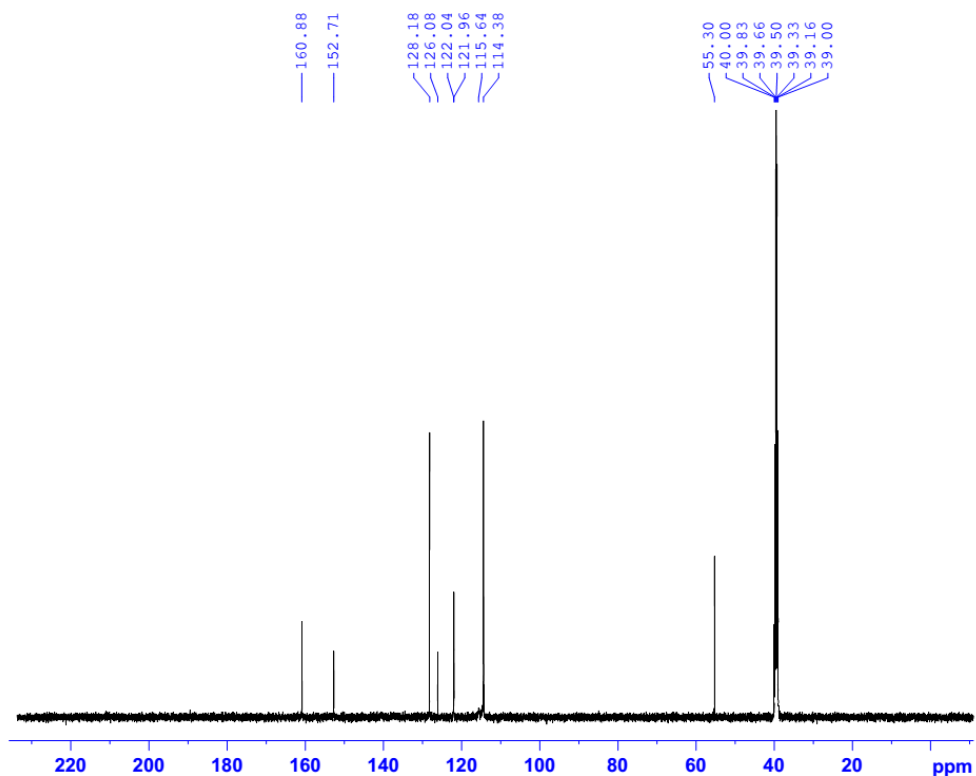
5-Chloro-2-(4-methoxy-phenyl)-1H-benzoimidazole (**18**):

^1H – NMR



^{13}C – NMR

BQMM-DMSO-C13CPD



Current Data Parameters
NAME 110HD_BQMM
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190424
Time 15.02
INSTRUM spect
PROBHD 5 mm PABBI 1H/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 256
DS 4
SWH 31250.000 Hz
FIDRES 0.476837 Hz
AQ 1.0485760 sec
RG 198.57
DW 16.000 usec
DE 6.50 usec
TE 305.2 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7897032 MHz
NUC1 ^{13}C
P1 15.40 usec
PLW1 81.00000000 W

===== CHANNEL f2 =====
SFO2 500.2039008 MHz
NUC2 ^1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 13.19999981 W
PLW12 0.12872000 W
PLW13 0.08238100 W

F2 - Processing parameters
SI 32768
SF 125.7759340 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

HRMS

Display Report

Analysis Info

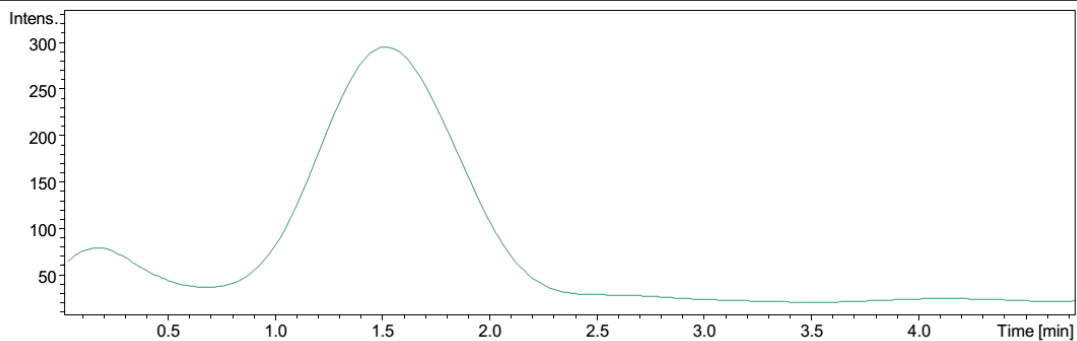
Analysis Name D:\Data\2019\thang 05\BQMM_1-C,7_01_1714.d
Method protein my mass tb.m
Sample Name BQMM
Comment

Acquisition Date 6/20/2019 8:53:02 PM

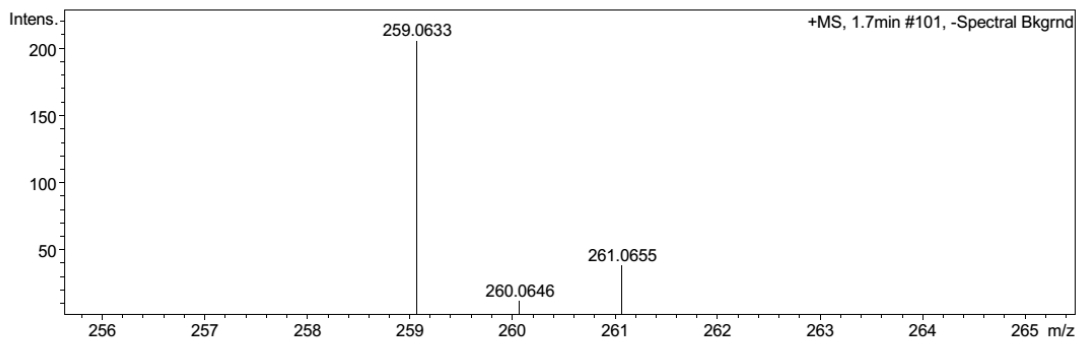
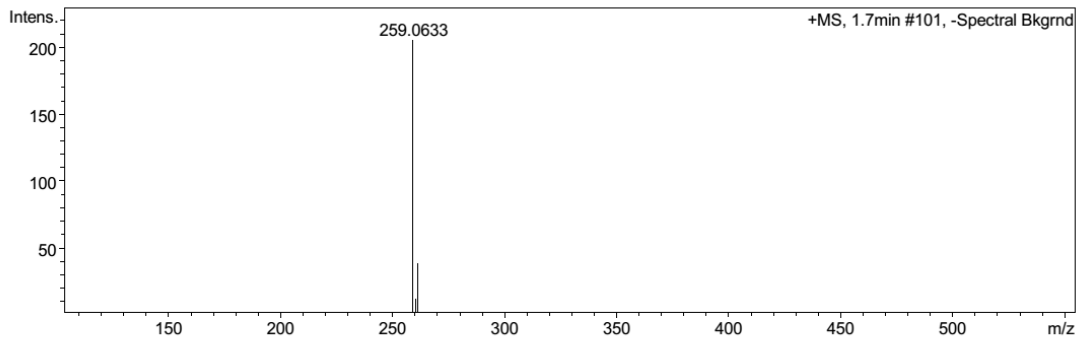
Operator ANH MAI
Instrument micrOTOF-Q 10187

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Not active	Set Capillary	4500 V	Set Dry Heater	200 °C
Scan Begin	100 m/z	Set End Plate Offset	-500 V	Set Dry Gas	6.5 l/min
Scan End	1000 m/z	Set Collision Cell RF	250.0 Vpp	Set Divert Valve	Source

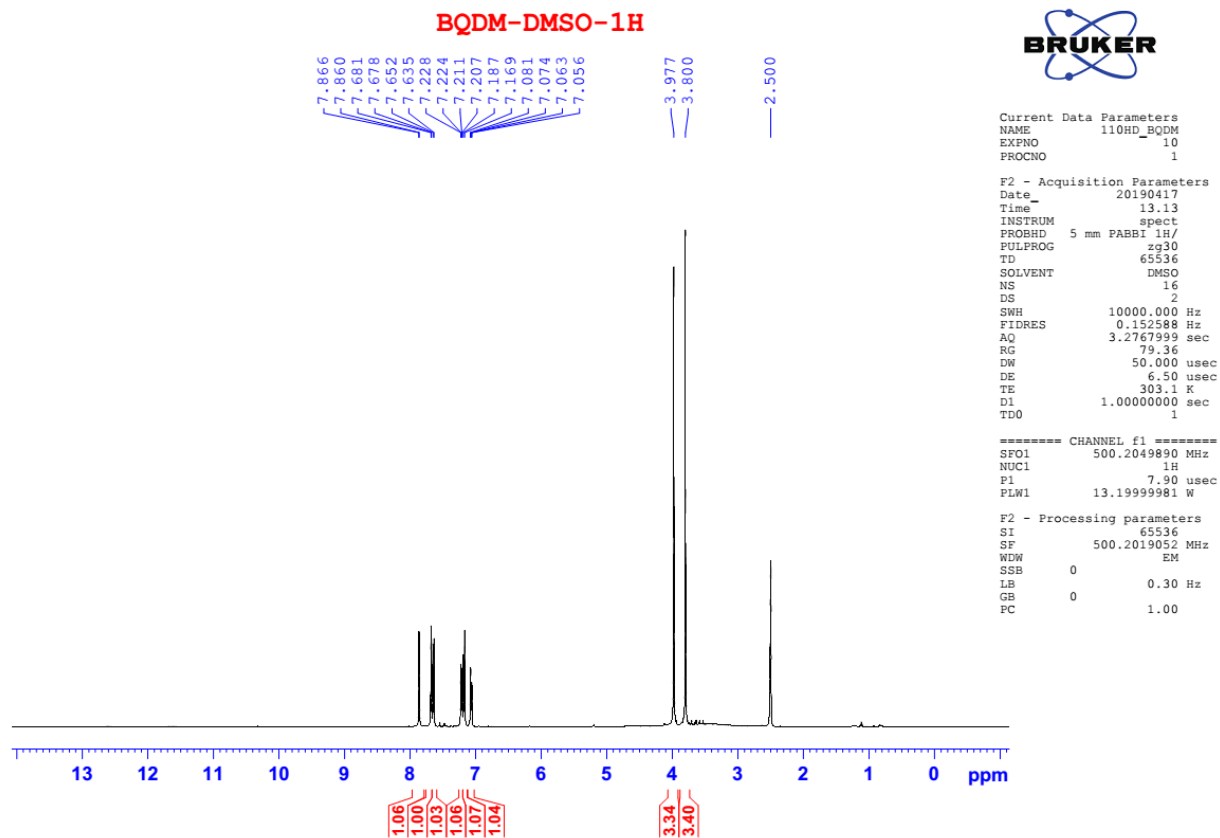


TIC +All MS, -Spectral Bkgrnd, Smoothed (10.03,2,GA)



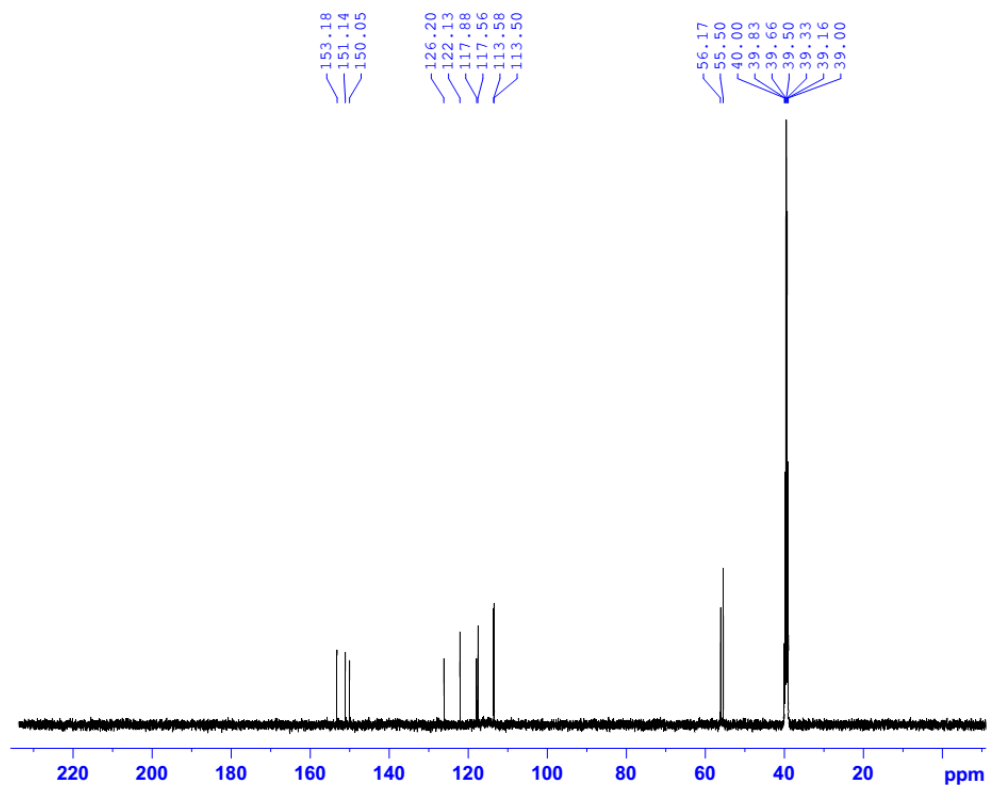
5-Chloro-2-(2,5-methoxy-phenyl)-1H-benzimidazole (**19**):

^1H – NMR



^{13}C – NMR

BQDM-DMSO- C^{13}CPD



Current Data Parameters
NAME 110HD_BQDM
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190417
Time 17.09
INSTRUM spect
PROBHD 5 mm FABBI 1H/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 256
DS 4
SWH 31250.000 Hz
FIDRES 0.476837 Hz
AQ 1.0485760 sec
RG 198.57
DW 16.000 usec
DE 6.50 usec
TE 303.8 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7897032 MHz
NUC1 ^{13}C
P1 15.40 usec
PLW1 81.00000000 W

===== CHANNEL f2 =====
SFO2 500.2039008 MHz
NUC2 ^1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 13.19999981 W
PLW12 0.12872000 W
PLW13 0.08238100 W

F2 - Processing parameters
SI 32768
SF 125.7759344 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

HRMS

Display Report

Analysis Info

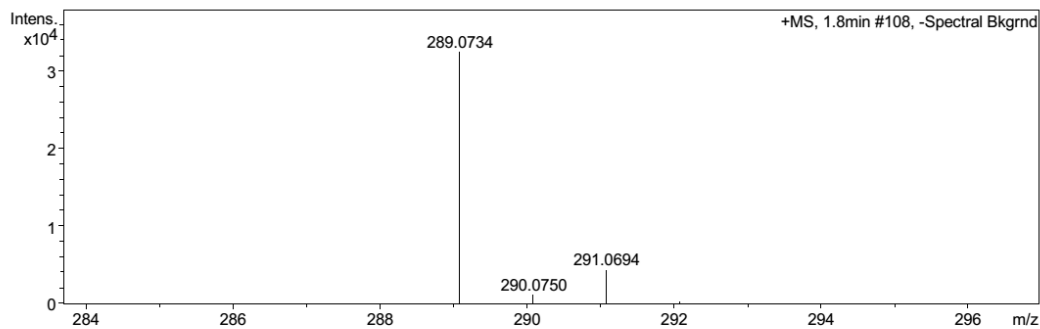
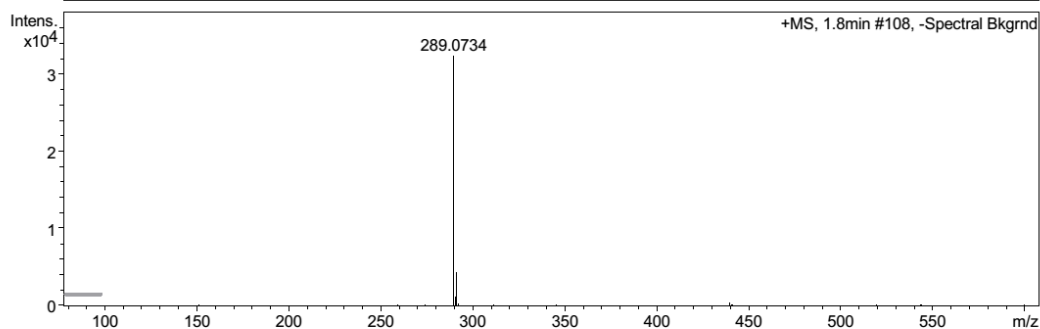
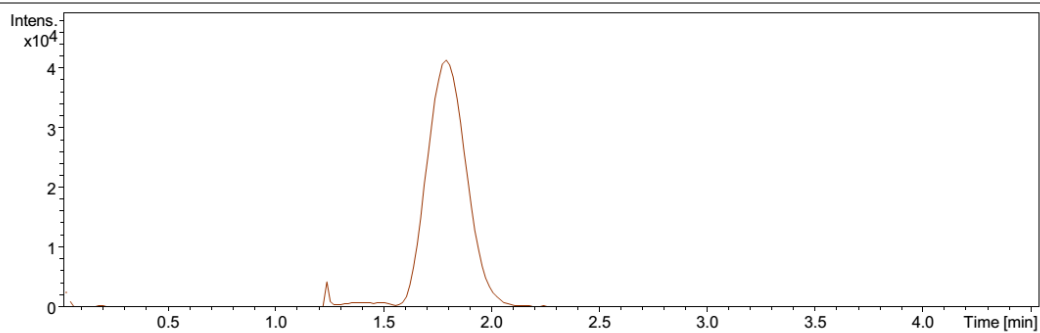
Analysis Name D:\Data\2019\thang 05\BQDM_2-C;9_01_1727.d
Method protein my mass tb.m
Sample Name BQDM
Comment

Acquisition Date 6/20/2019 10:20:19 PM

Operator ANH MAI
Instrument micrOTOF-Q 10187

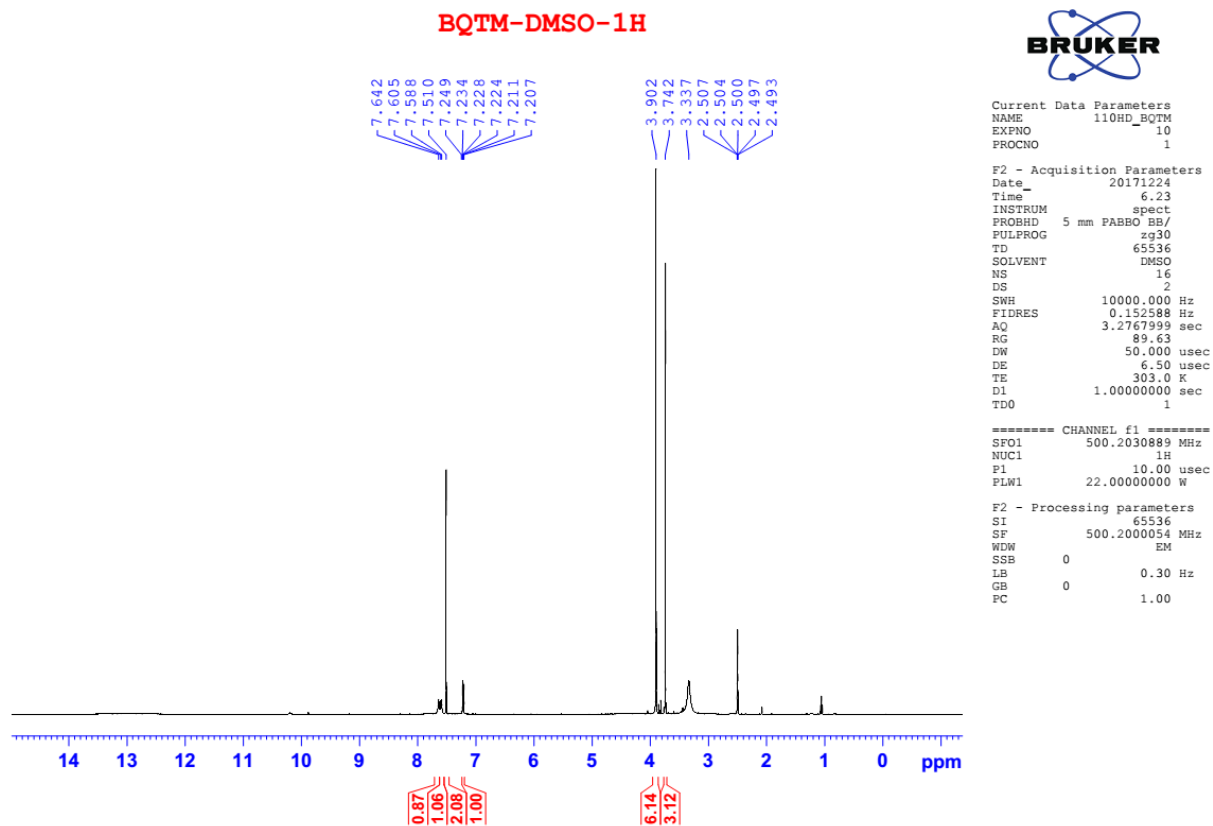
Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Not active	Set Capillary	4500 V	Set Dry Heater	200 °C
Scan Begin	100 m/z	Set End Plate Offset	-500 V	Set Dry Gas	6.5 l/min
Scan End	1000 m/z	Set Collision Cell RF	250.0 Vpp	Set Divert Valve	Source



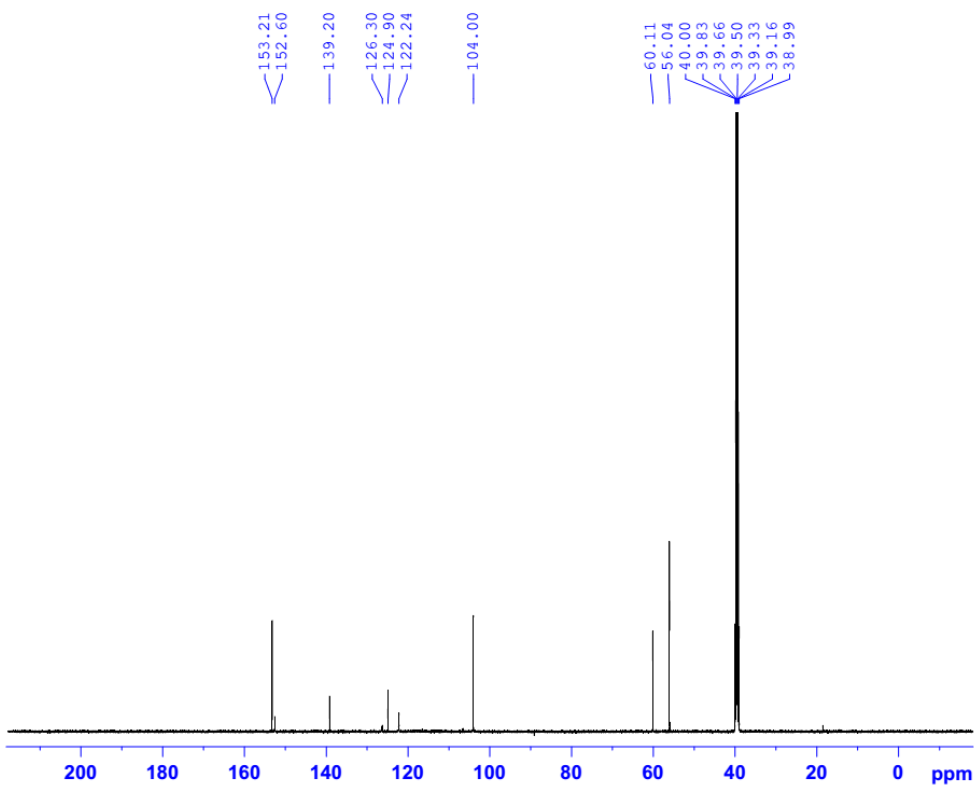
5-Chloro-2-(3,4,5-trimethoxy-phenyl)-1H-benzimidazole (**20**):

^1H – NMR



^{13}C – NMR

BQTM-DMSO- C^{13}CPD



Current Data Parameters
NAME 110HD_BQTM
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20171224
Time 7.19
INSTRUM spect
PROBHD 5 mm PABBO BB/
FULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 1024
DS 4
SWH 29761.904 Hz
FIDRES 0.454131 Hz
AQ 1.1010048 sec
RG 198.57
DW 16.800 usec
DE 6.50 usec
TE 303.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7879670 MHz
NUC1 ^{13}C
P1 10.00 usec
PLW1 88.00000000 W

===== CHANNEL f2 =====
SFO2 500.2020008 MHz
NUC2 ^1H
PCPD2 waltz16
PLW2 80.00 usec
PLW12 22.00000000 W
PLW13 0.34375000 W
PLW13 0.22000000 W

F2 - Processing parameters
SI 32768
SF 125.7754557 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

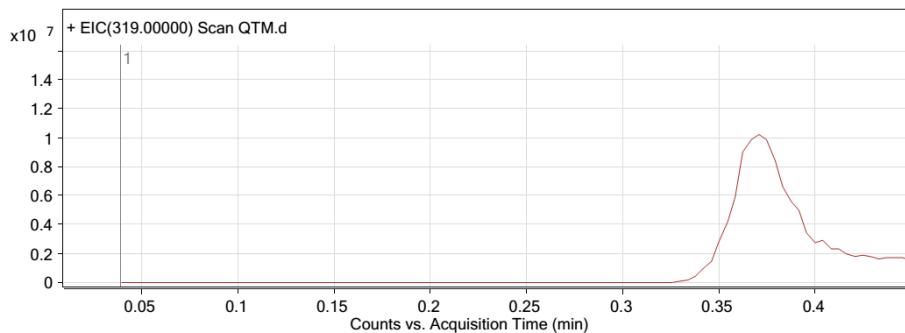
HRMS

Qualitative Analysis Report

Data File	QTM.d	Sample Name	QTM
Sample Type	Sample	Position	P1-A6
Instrument Name	Instrument 1	User Name	
Acq Method	All Ion MSMS-Positive-100MeOH.m	Acquired Time	17/01/2018 2:29:47 PM
IRM Calibration Status	Success	DA Method	GS ton du.m
Comment			
Sample Group			
Stream Name	LC 1	Info.	
		Acquisition SW Version	6200 series TOF/6500 series Q-TOF B.06.01 (B6172 SP1)

User Chromatograms

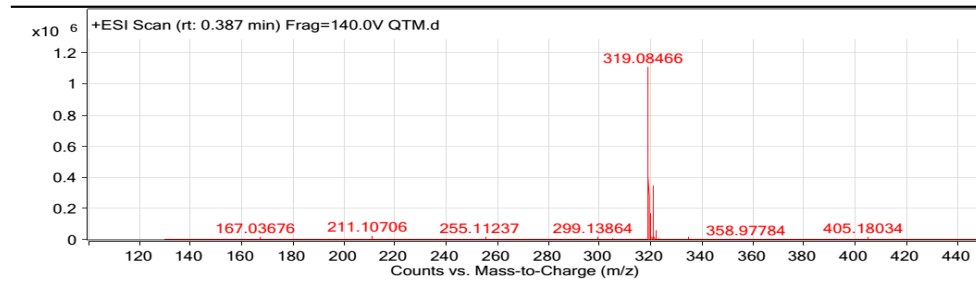
Fragmentor Voltage 14
0
Collision Energy 0
Ionization Mode ES
I



User Spectra

Fragmentor Voltage 140
Collision Energy 0
Ionization Mode ESI

Qualitative Analysis Report



Formula Calculator Element Limits

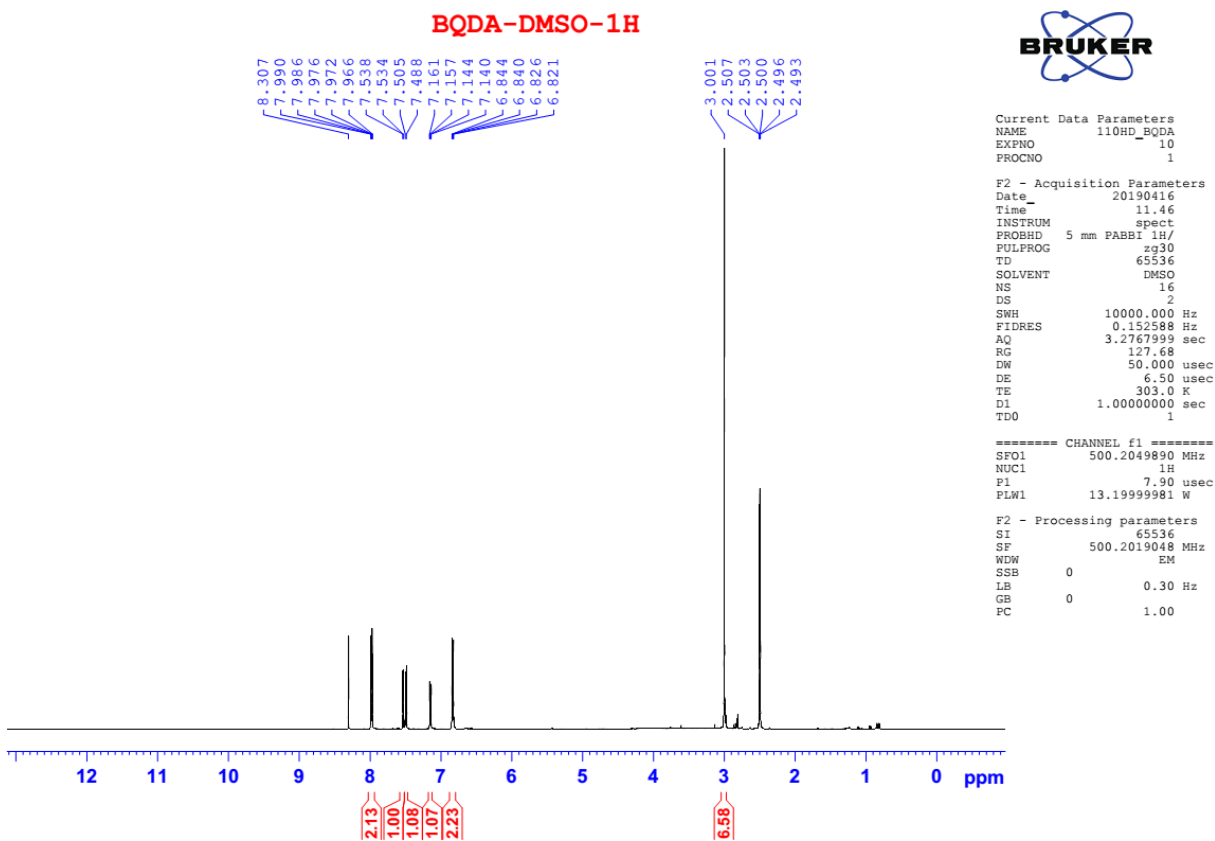
Element	Min	Max
C	3	60
H	0	120
O	0	30
N	0	30
S	0	5
Cl	0	3

--- End Of Report ---



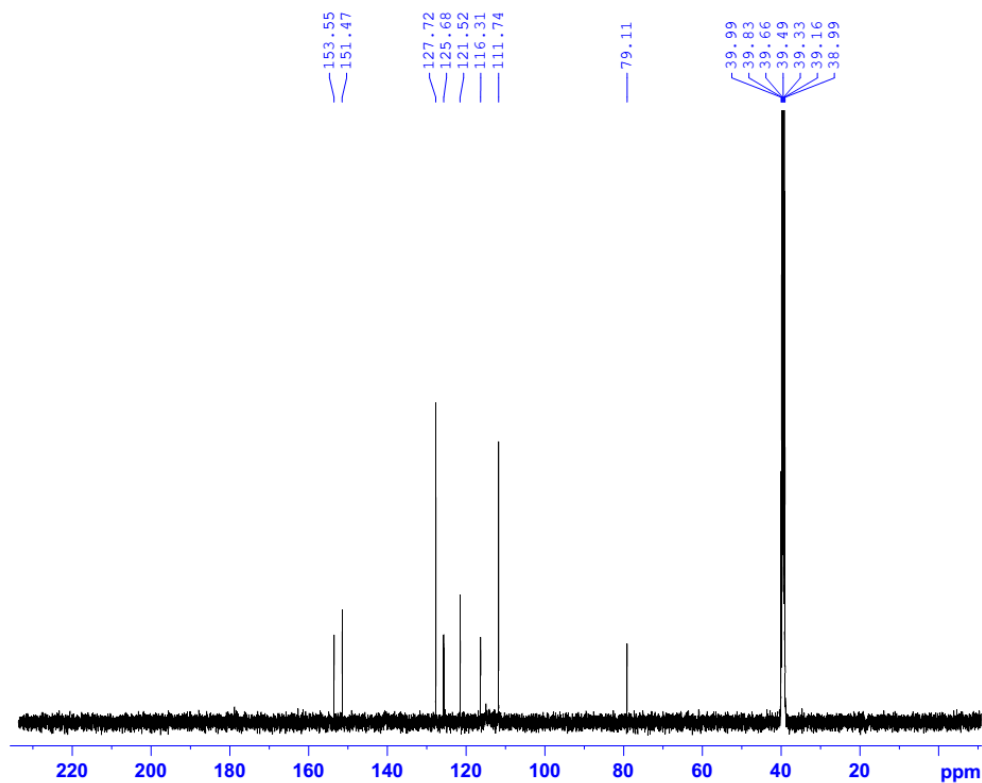
4-(5-Chloro-1H-benzoimidazol-2-yl)-N,N-dimethylaniline (21):

¹H – NMR



^{13}C – NMR

BQDA-DMSO-C13CPD



Current Data Parameters
NAME 110HD_BQDA
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190416
Time 12.35
INSTRUM spect
PROBHD 5 mm PABBI 1H/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 512
DS 4
SWH 31250.000 Hz
FIDRES 0.476837 Hz
AQ 1.0485760 sec
RG 198.57
DW 16.000 usec
DE 6.50 usec
TE 303.5 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7897032 MHz
NUC1 13C
P1 15.40 usec
PLW1 81.00000000 W

===== CHANNEL f2 =====
SFO2 500.2039008 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 13.19999981 W
PLW12 0.12872000 W
PLW13 0.08238100 W

F2 - Processing parameters
SI 32768
SF 125.7759363 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

HRMS

Display Report

Analysis Info

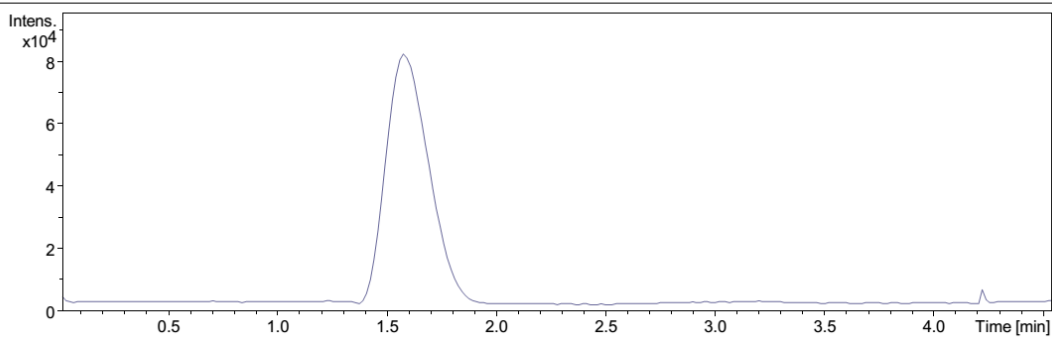
Analysis Name D:\Data\2019\thang 05\BQDA_2-C,8_01_1728.d
Method protein my mass tb.m
Sample Name BQDA
Comment

Acquisition Date 6/20/2019 10:27:02 PM

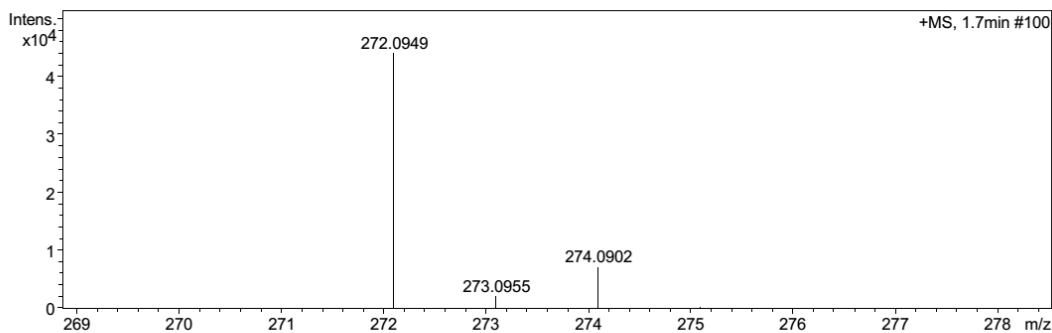
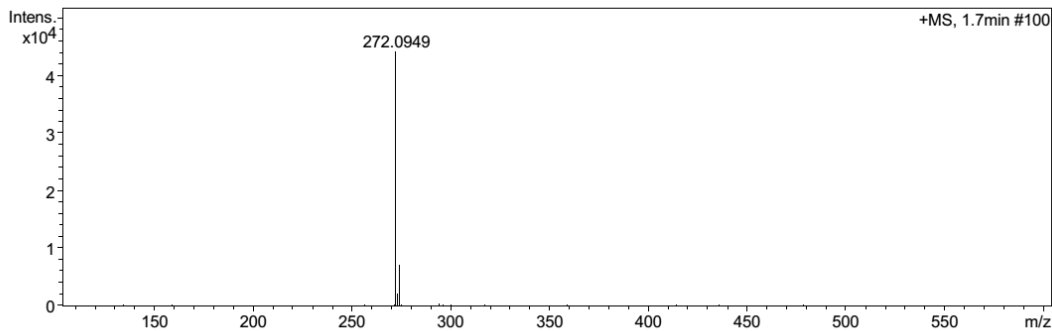
Operator ANH MAI
Instrument micrOTOF-Q 10187

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Not active	Set Capillary	4500 V	Set Dry Heater	200 °C
Scan Begin	100 m/z	Set End Plate Offset	-500 V	Set Dry Gas	6.5 l/min
Scan End	1000 m/z	Set Collision Cell RF	250.0 Vpp	Set Divert Valve	Source

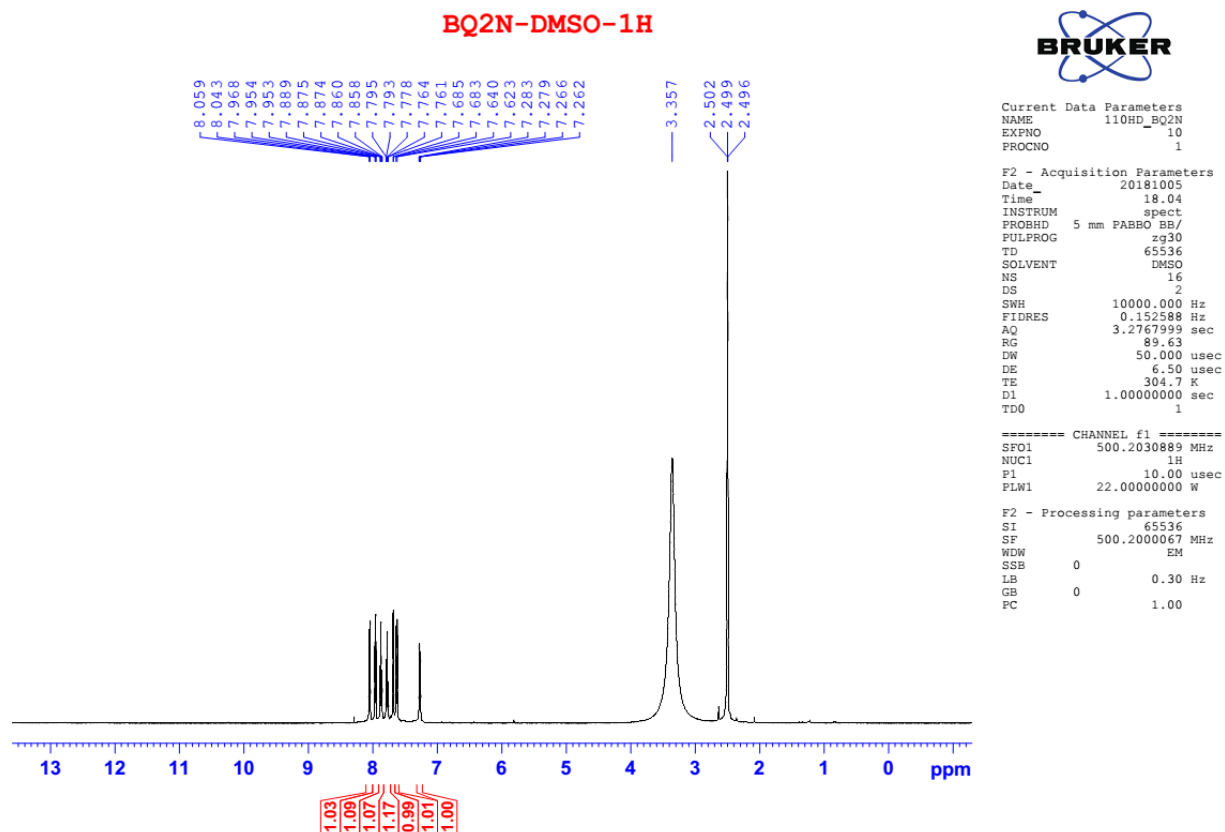


— TIC +All MS



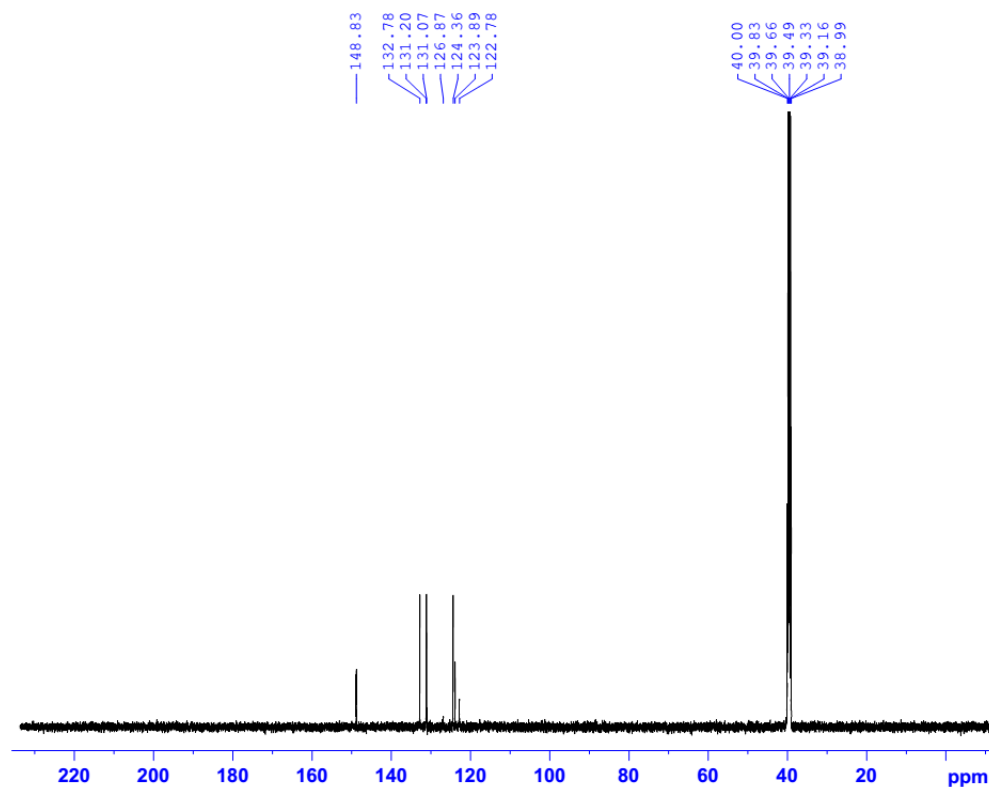
5-Chloro-2-(2-nitro-phenyl)-1H-benzimidazole (22):

^1H – NMR



^{13}C – NMR

BQ2N-DMSO-C13CPD



Current Data Parameters
NAME 110HD_BQ2N
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20181006
Time 9.45
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 2048
DS 4
SWH 31250.000 Hz
FIDRES 0.476837 Hz
AQ 1.0485760 sec
RG 198.57
DW 16.000 usec
DE 6.50 usec
TE 304.1 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7892253 MHz
NUC1 ^{13}C
P1 10.00 usec
PLW1 88.00000000 W

===== CHANNEL f2 =====
SFO2 500.2020008 MHz
NUC2 ^1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 22.00000000 W
PLW12 0.34375000 W
PLW13 0.22000000 W

F2 - Processing parameters
SI 32768
SF 125.7754540 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

HRMS

Display Report

Analysis Info

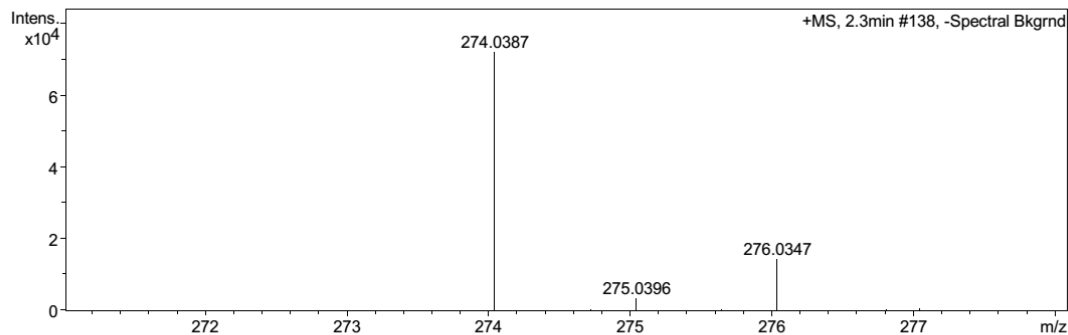
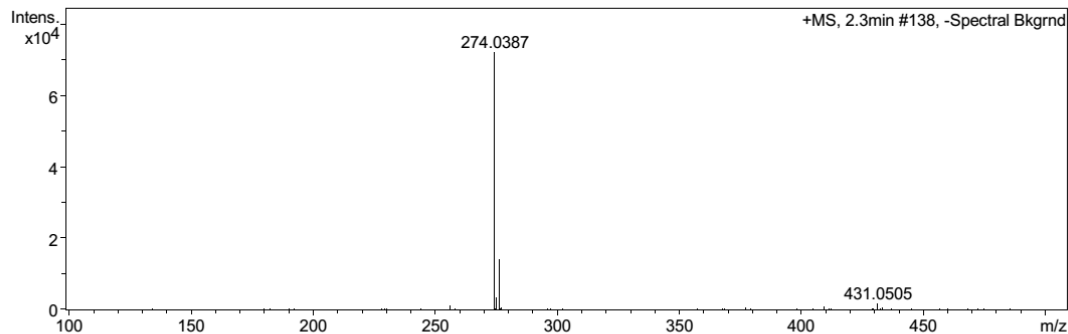
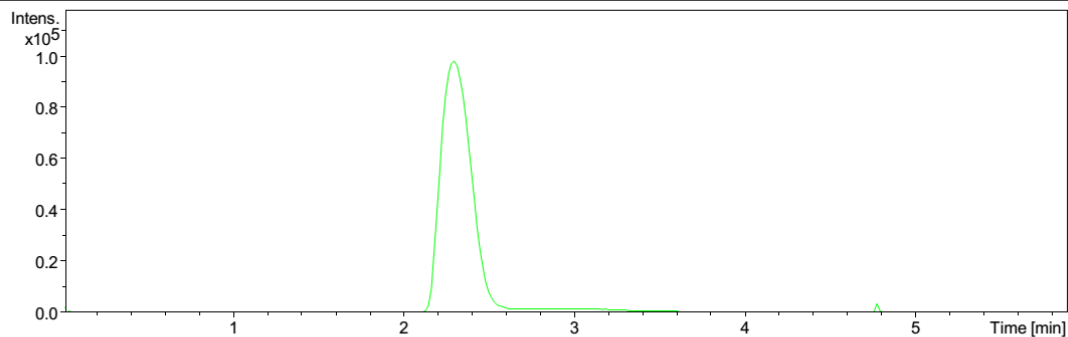
Analysis Name D:\Data\2019\thang 05\BQ2N_1-F,5_01_1751.d
Method protein my mass tb.m
Sample Name BQ2N
Comment

Acquisition Date 6/21/2019 7:19:05 PM

Operator ANH MAI
Instrument micrOTOF-Q 10187

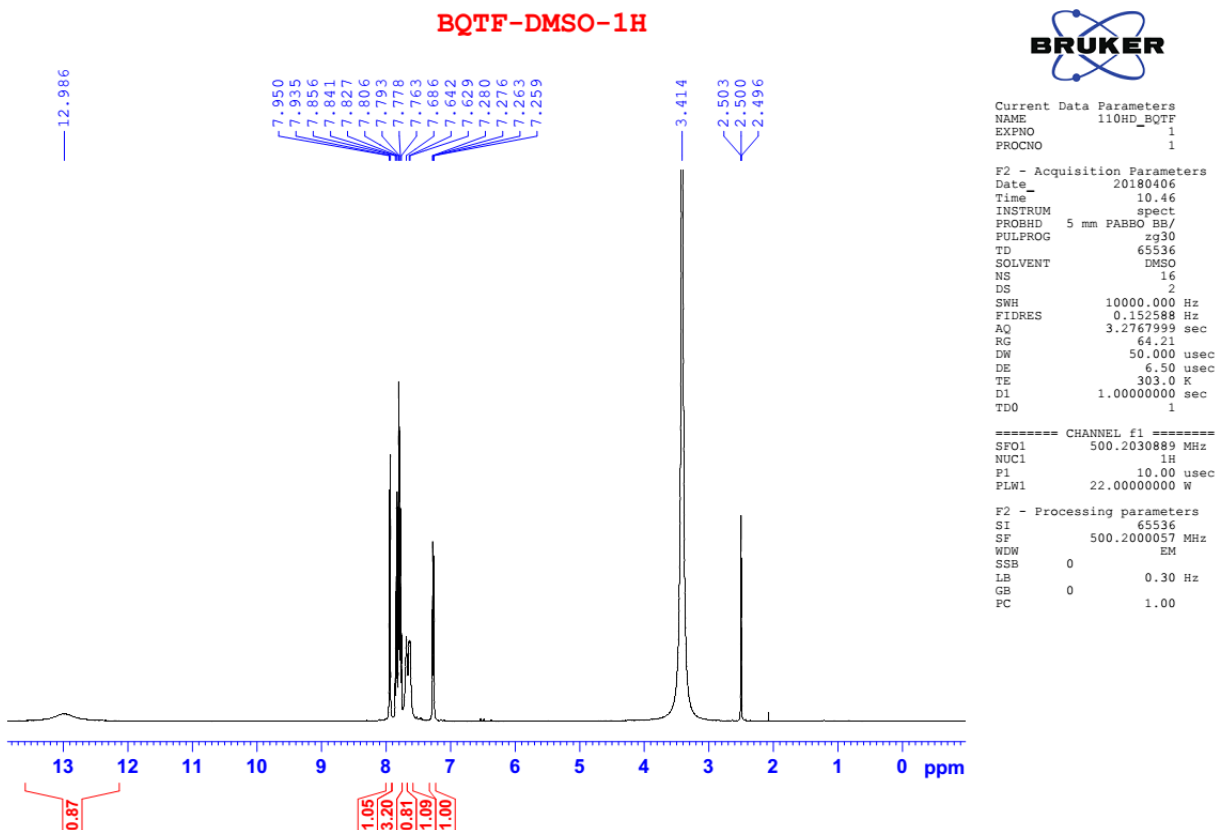
Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Not active	Set Capillary	4500 V	Set Dry Heater	200 °C
Scan Begin	100 m/z	Set End Plate Offset	-500 V	Set Dry Gas	6.5 l/min
Scan End	1000 m/z	Set Collision Cell RF	250.0 Vpp	Set Divert Valve	Source



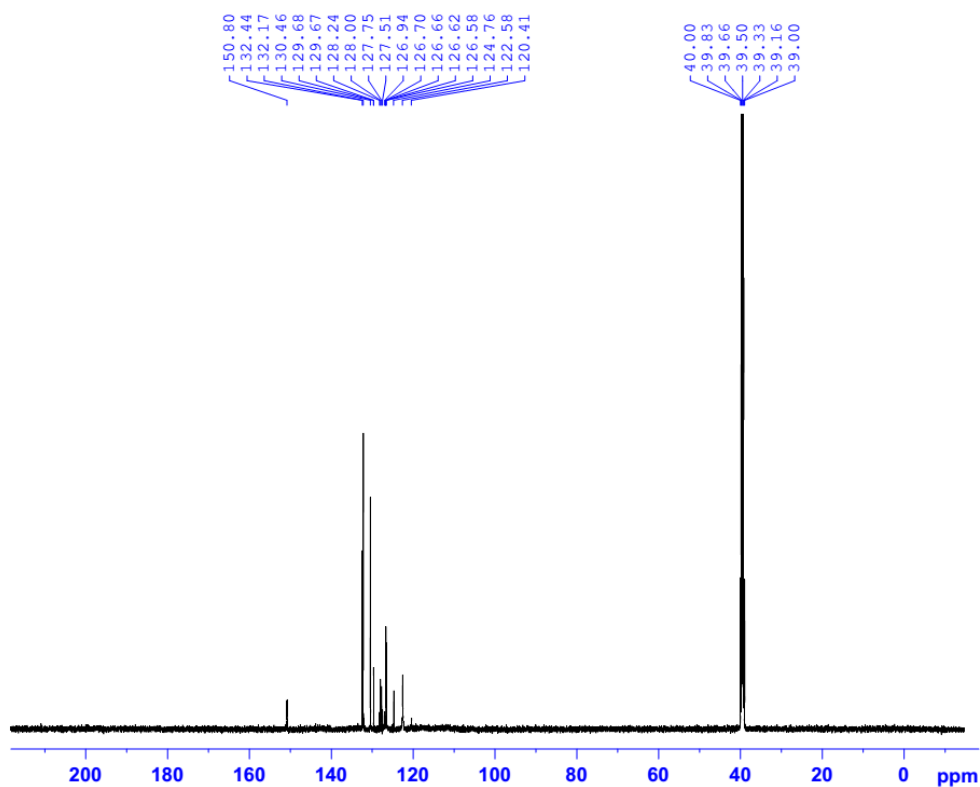
5-Chloro-2-(2-trifluoromethyl-phenyl)-1H-benzimidazole (23):

^1H – NMR



^{13}C – NMR

BQTF-DMSO-C13CPD



Current Data Parameters
NAME 110HD_BQTF
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date 20180406
Time 11.50
INSTRUM spect
PROBHD 5 mm F4BBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 512
DS 4
SWH 31250.000 Hz
FIDRES 0.476837 Hz
AQ 1.0485760 sec
RG 198.57
DW 16.000 usec
DE 6.50 usec
TE 303.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7892253 MHz
NUC1 13C
P1 10.00 usec
PLW1 88.00000000 W

===== CHANNEL f2 =====
SFO2 500.2020008 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 22.00000000 W
PLW12 0.34375000 W
PLW13 0.22000000 W

F2 - Processing parameters
SI 32768
SF 125.7754478 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

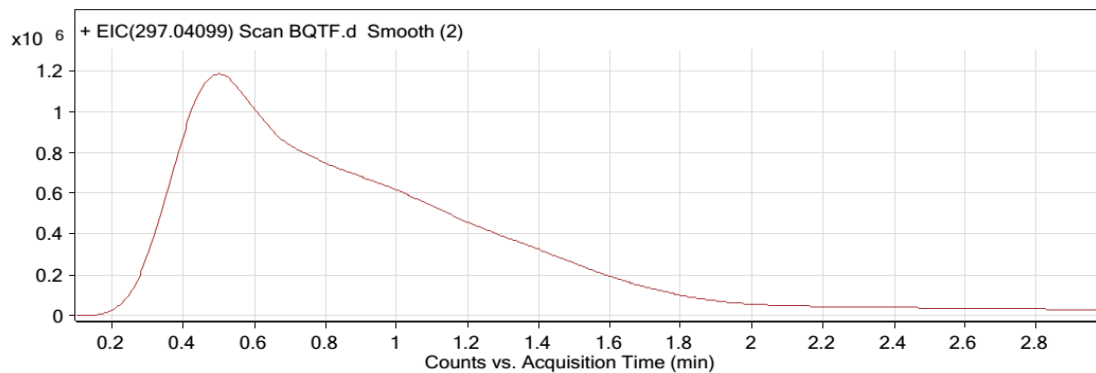
HRMS

Qualitative Analysis Report

Data File	BQTF.d	Sample Name	BQTF
Sample Type	Sample	Position	P1-A7
Instrument Name	Instrument 1	User Name	
Acq Method	All Ion MSMS-Positive-100MeOH.m	Acquired Time	20/05/2018 5:54:42 PM
IRM Calibration Status	Success	DA Method	default.m
Comment			
Sample Group			
Stream Name	LC 1	Info.	
		Acquisition SW Version	6200 series TOF/6500 series Q-TOF B.06.01 (B6172 SP1)

User Chromatograms

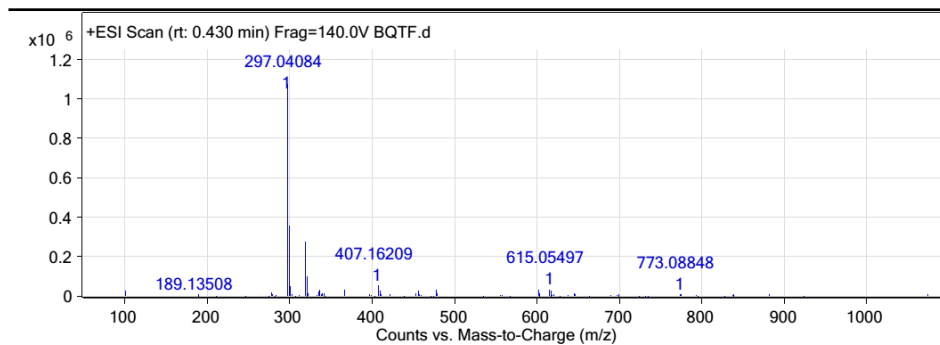
Fragmentor Voltage 140 **Collision Energy** 0 **Ionization Mode** ESI



User Spectra

Fragmentor Voltage 140 **Collision Energy** 0 **Ionization Mode** ESI

Qualitative Analysis Report



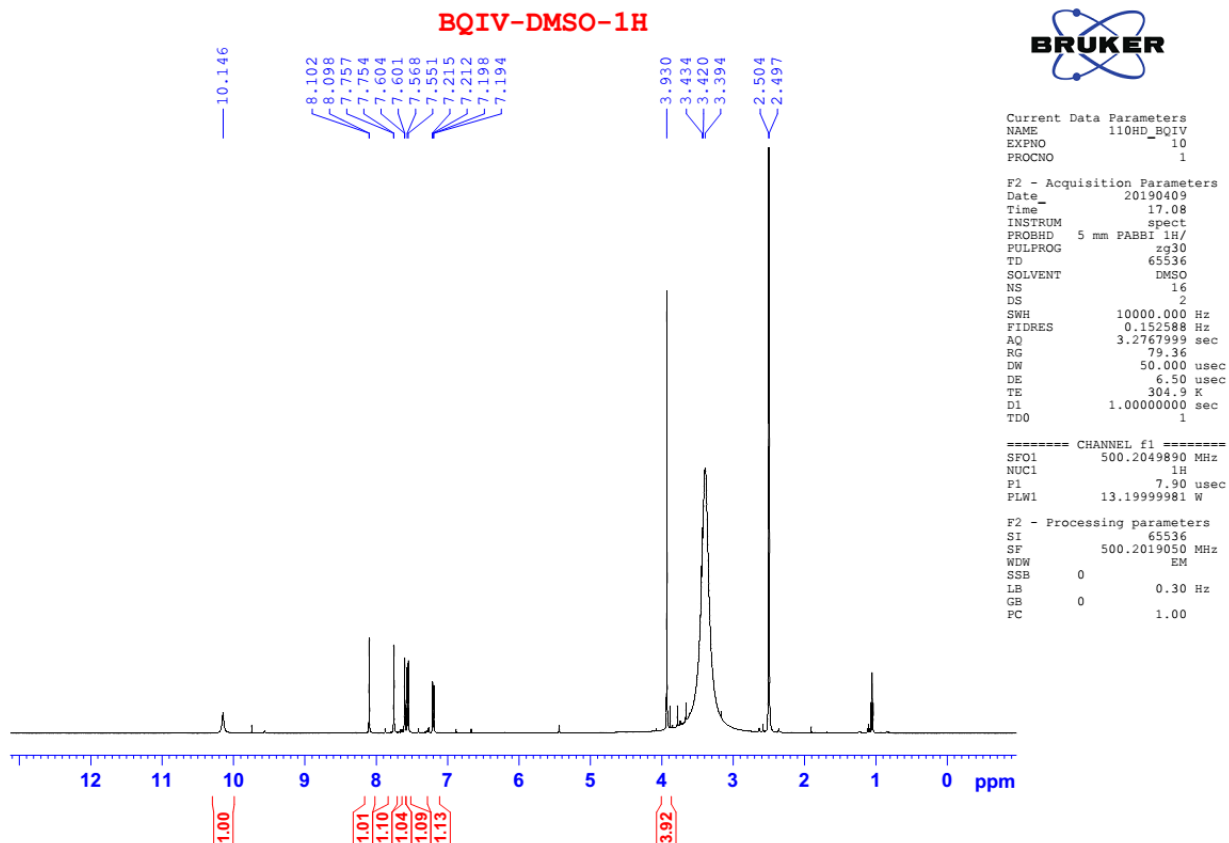
Peak List

m/z	z	Abund
297.04084	1	1081155.5
297.10731	1	84229.26
298.04399	1	158833.36
299.03864	1	357333.19
300.04083	1	55277.56
319.02346	1	278978.38
319.08468	1	49764.92
320.02548	1	47005.36
321.01983	1	98334.5
407.16209	1	54262.3

--- End Of Report ---

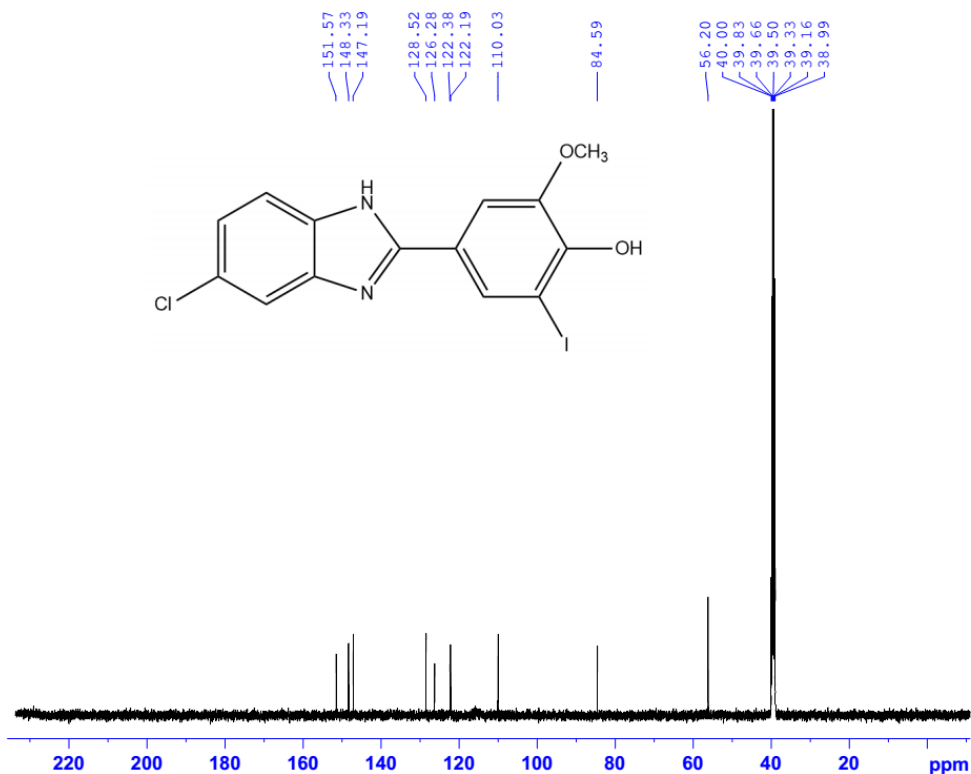
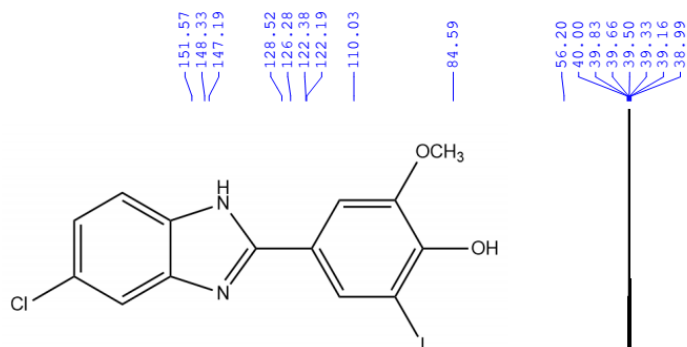
4-(5-Chloro-1H-Benzoimidazole-2-yl)-2-iodo-6-methoxy-phenol (**24**):

^1H – NMR



^{13}C – NMR

BQIV-DMSO-C13CPD



Current Data Parameters
NAME 110HD_BQIV
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190509
Time 6.18
INSTRUM spect
PROBHD 5 mm PABBI 1H/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 512
DS 4
SWH 31250.000 Hz
FIDRES 0.476837 Hz
AQ 1.0485760 sec
RG 198.57
DW 16.000 usec
DE 6.50 usec
TE 303.5 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7897032 MHz
NUC1 ^{13}C
P1 15.40 usec
PLW1 81.00000000 W

===== CHANNEL f2 =====
SFO2 500.2039008 MHz
NUC2 ^1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 13.19999981 W
PLW12 0.12872000 W
PLW13 0.08238100 W

F2 - Processing parameters
SI 32768
SF 125.7759348 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

HRMS

Display Report

Analysis Info

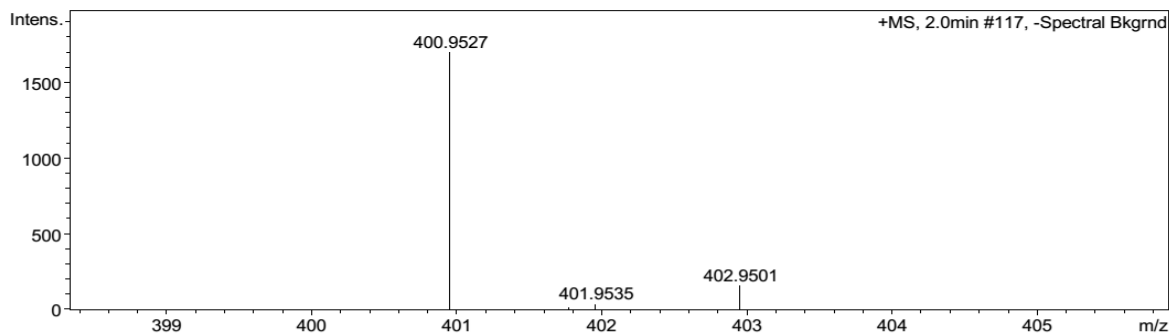
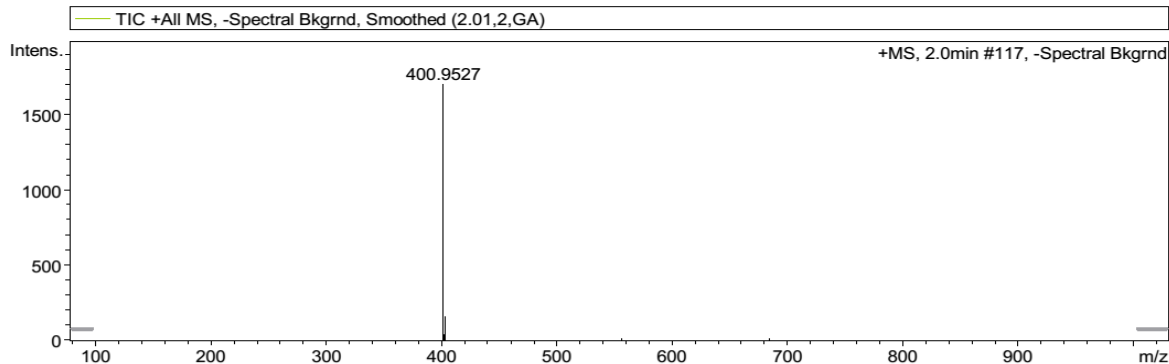
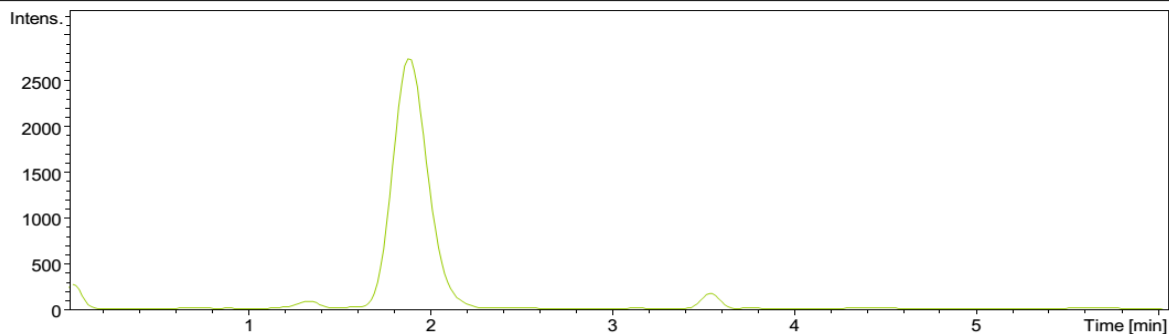
Analysis Name D:\Data\2019\thang 05\BQIV_2-E,7_01_1723.d
Method protein my mass tb.m
Sample Name BQIV
Comment

Acquisition Date 6/20/2019 9:53:26 PM

Operator ANH MAI
Instrument micrOTOF-Q 10187

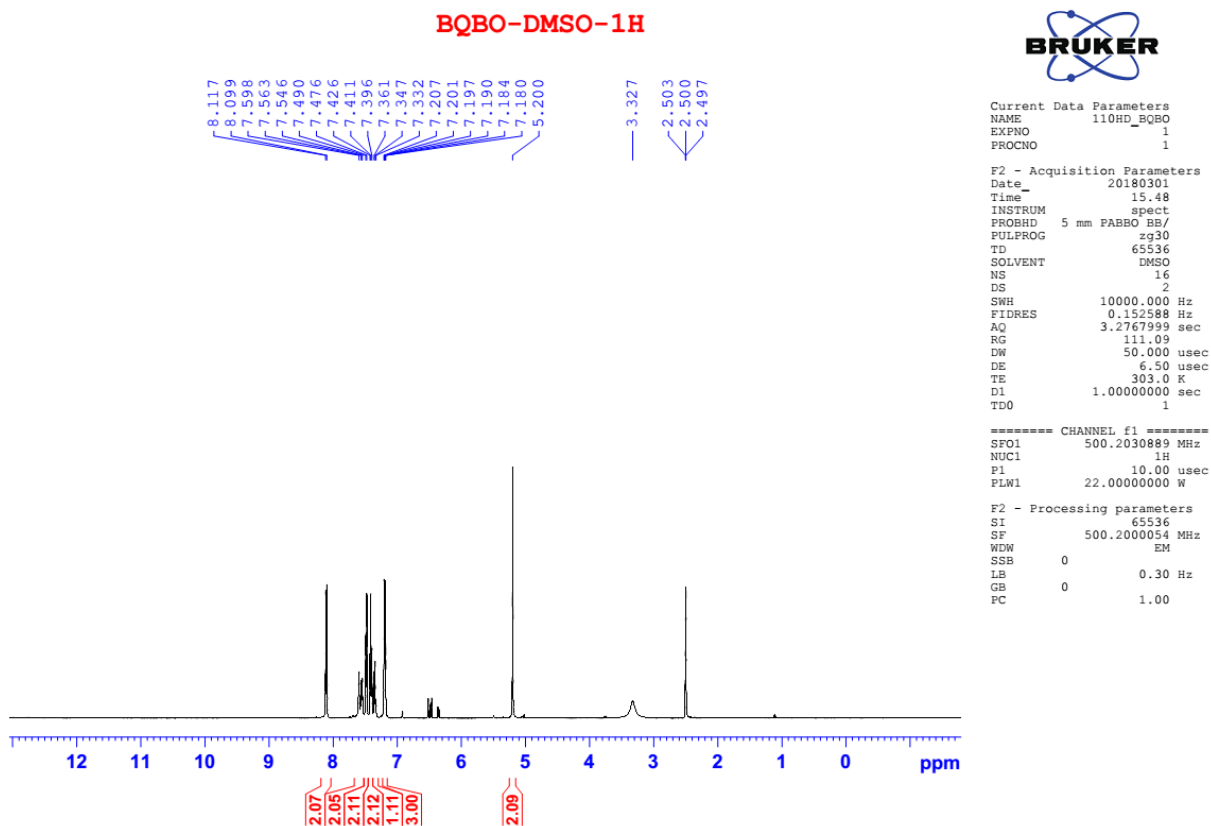
Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Not active	Set Capillary	4500 V	Set Dry Heater	200 °C
Scan Begin	100 m/z	Set End Plate Offset	-500 V	Set Dry Gas	6.5 l/min
Scan End	1000 m/z	Set Collision Cell RF	250.0 Vpp	Set Divert Valve	Source



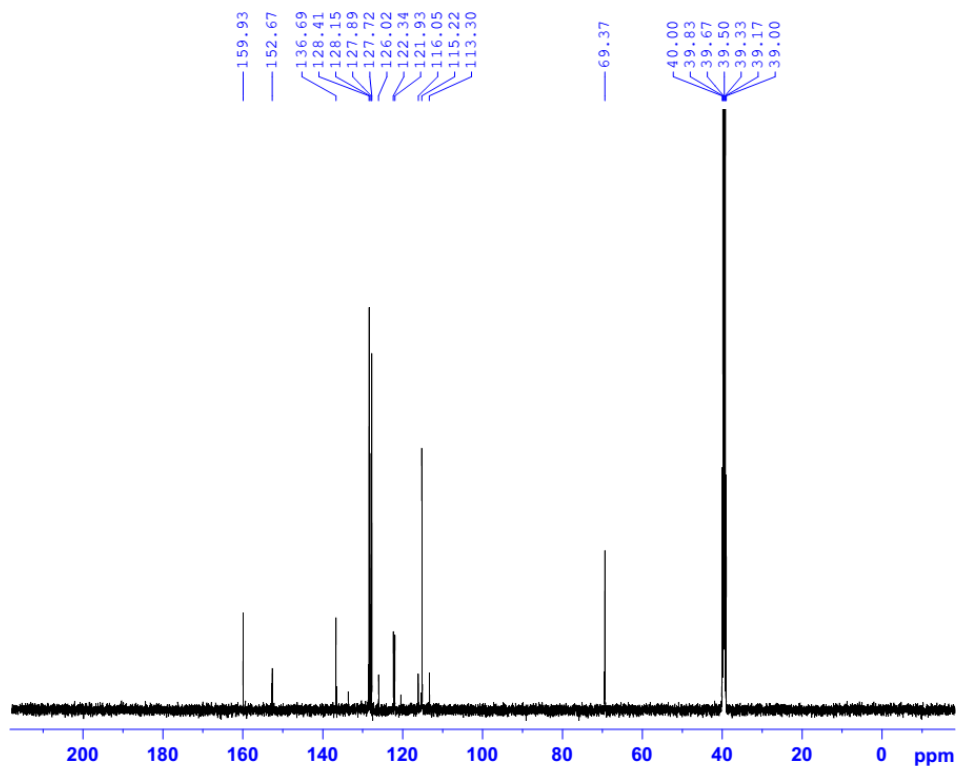
2-(4-(Benzyloxy)phenyl)-5-chloro-1H-benzimidazole (25):

¹H – NMR



^{13}C – NMR

BQBO-DMSO- C13CPD



Current Data Parameters
NAME 110HD BQBO
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date 20180301
Time 17.31
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 256
DS 4
SWH 29761.904 Hz
FIDRES 0.454131 Hz
AQ 1.1010048 sec
RG 198.57
DW 16.800 usec
DE 6.50 usec
TE 303.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7879670 MHz
NUC1 ^{13}C
P1 10.00 usec
PLW1 88.00000000 W

===== CHANNEL f2 =====
SFO2 500.2020008 MHz
NUC2 ^1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 22.00000000 W
PLW12 0.34375000 W
PLW13 0.22000000 W

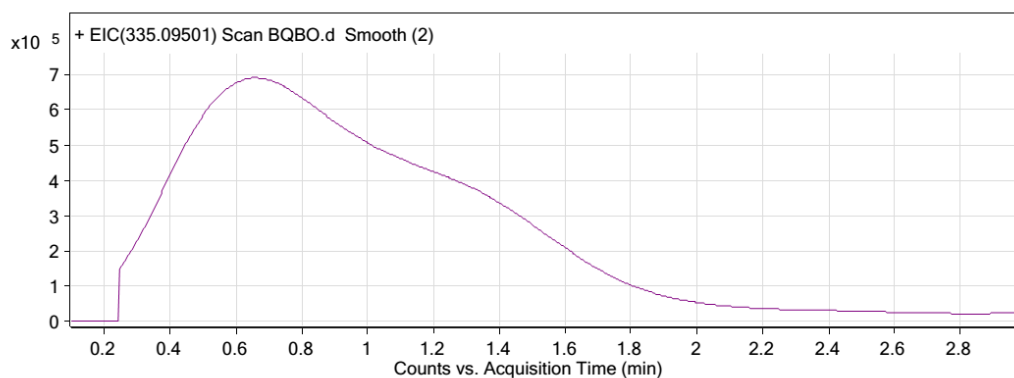
F2 - Processing parameters
SI 32768
SF 125.7754574 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

Qualitative Analysis Report

Data File	BQBO.d	Sample Name	BQBO
Sample Type	Sample	Position	P1-A9
Instrument Name	Instrument 1	User Name	
Acq Method	All Ion MSMS-Positive-100MeOH.m	Acquired Time	20/05/2018 6:05:59 PM
IRM Calibration Status	Success	DA Method	default.m
Comment			
Sample Group			
Stream Name	LC 1	Info.	
		Acquisition SW Version	6200 series TOF/6500 series Q-TOF B.06.01 (B6172 SP1)

User Chromatograms

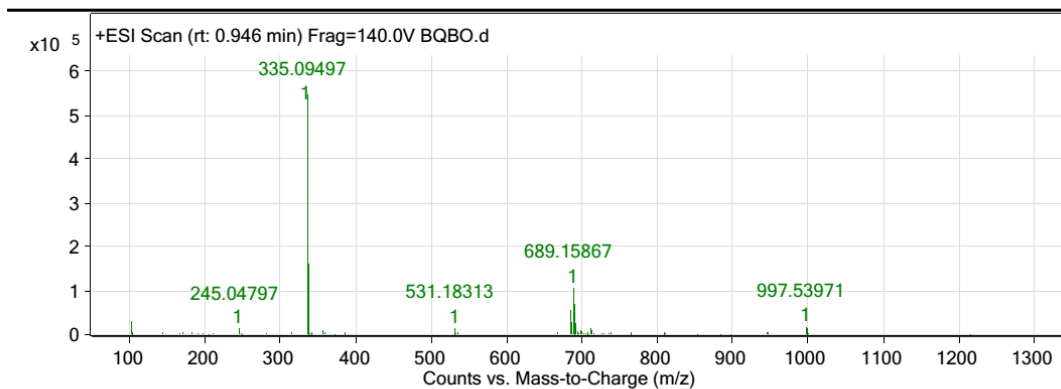
Fragmentor Voltage 140 Collision Energy 0 Ionization Mode ESI



User Spectra

Fragmentor Voltage 140 Collision Energy 0 Ionization Mode ESI

Qualitative Analysis Report



Peak List

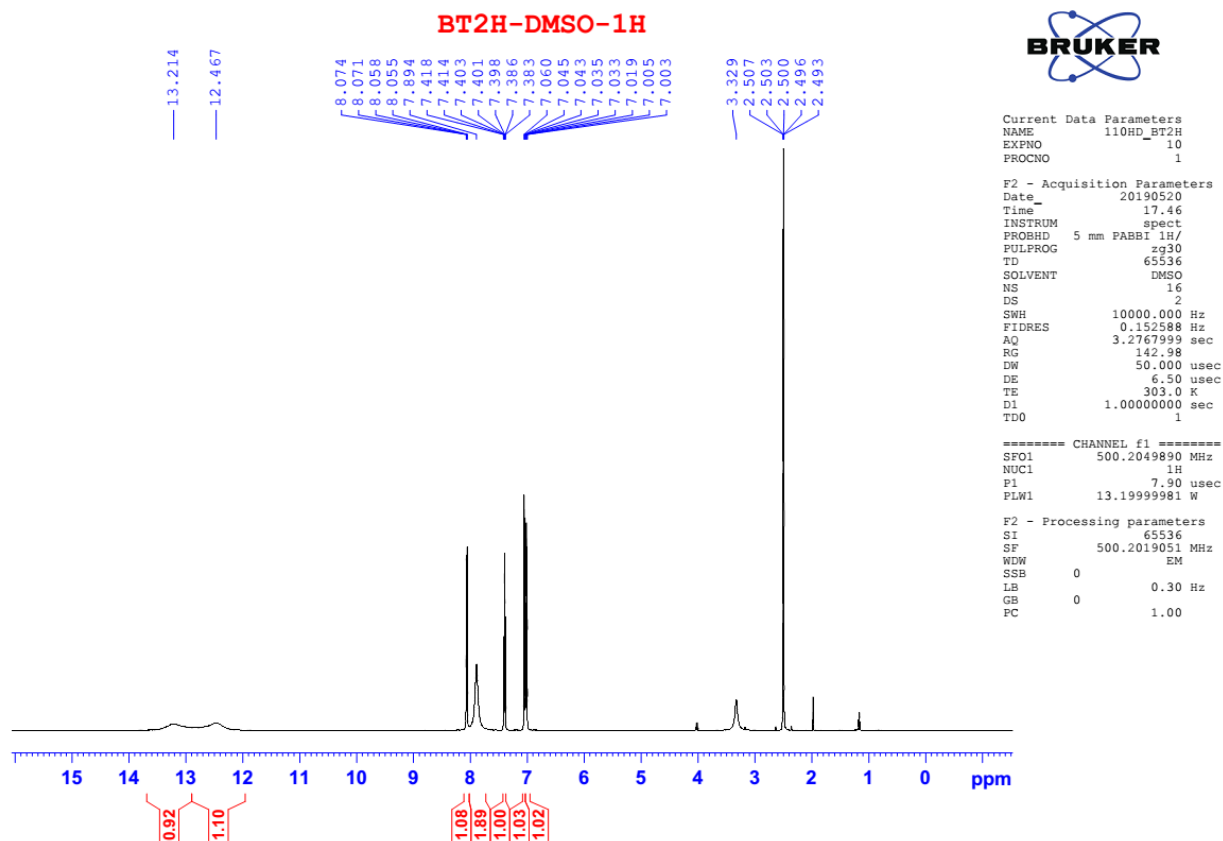
m/z	z	Abund
335.09497	1	548406.63
335.1659		37280.09
336.09795	1	118707.34
337.0935	1	160673.69
338.09532	1	40312.67
684.20316	1	55062.52
685.20353	1	36772.19
689.15867	1	106520.9
690.15905	1	69930.52
691.15876	1	66357.37

--- End Of Report ---



5,6-Dichloro-2-(4-trimethoxy-phenyl)-1H-benzoimidazole (26):

^1H – NMR



^{13}C – NMR

BT2H-DMSO-C13CPD



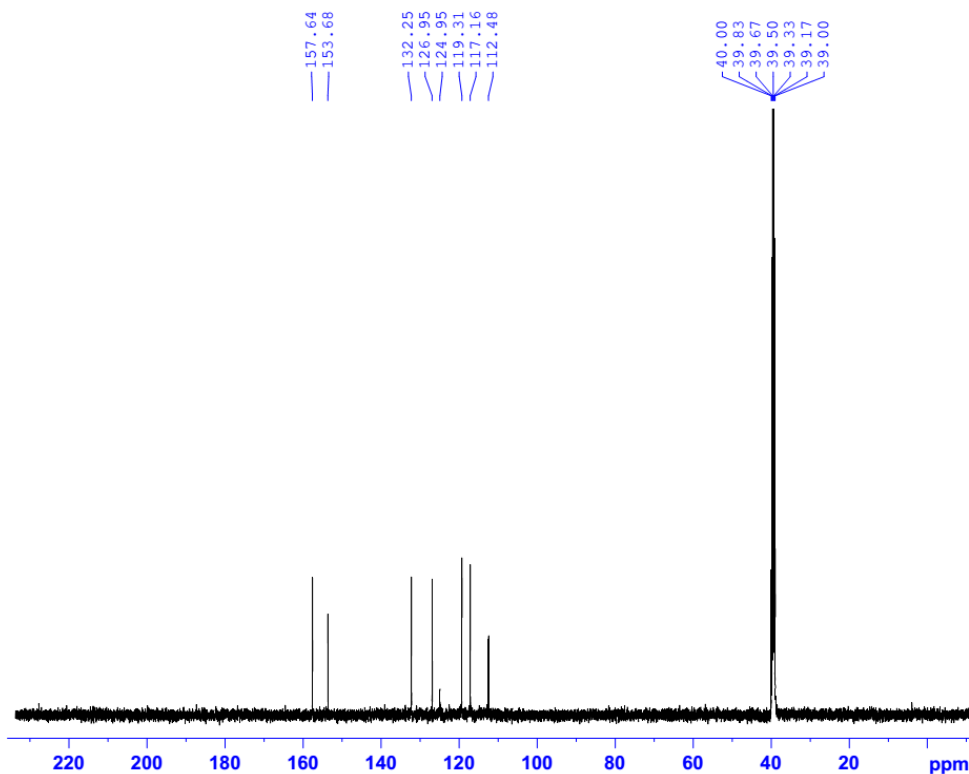
Current Data Parameters
NAME 110HD_BT2H
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190521
Time 6.30
INSTRUM spect
PROBHD 5 mm PABBI 1H/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 256
DS 4
SWH 31250.000 Hz
FIDRES 0.476837 Hz
AQ 1.0485760 sec
RG 198.57
DW 16.000 usec
DE 6.50 usec
TE 303.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7897032 MHz
NUC1 ^{13}C
P1 15.40 usec
PLW1 81.00000000 W

===== CHANNEL f2 =====
SFO2 500.2039008 MHz
NUC2 ^1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 13.19999981 W
PLW12 0.12872000 W
PLW13 0.08238100 W

F2 - Processing parameters
SI 32768
SF 125.7759350 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



Display Report

Analysis Info

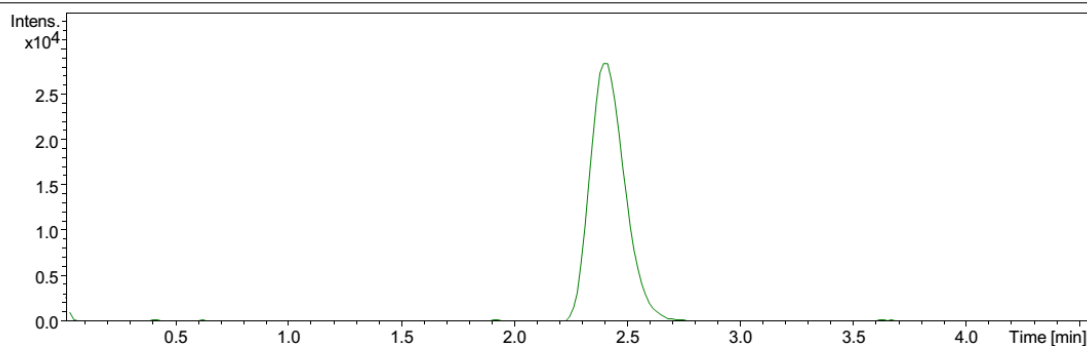
Analysis Name D:\Data\2019\thang 05\BT2H-XT_2-D,8_01_1725.d
Method protein my mass tb.m
Sample Name BT2H-XT
Comment

Acquisition Date 6/20/2019 10:06:53 PM

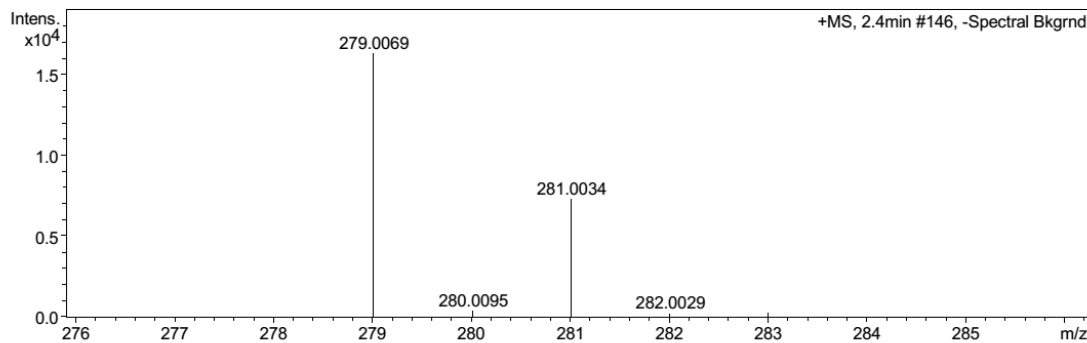
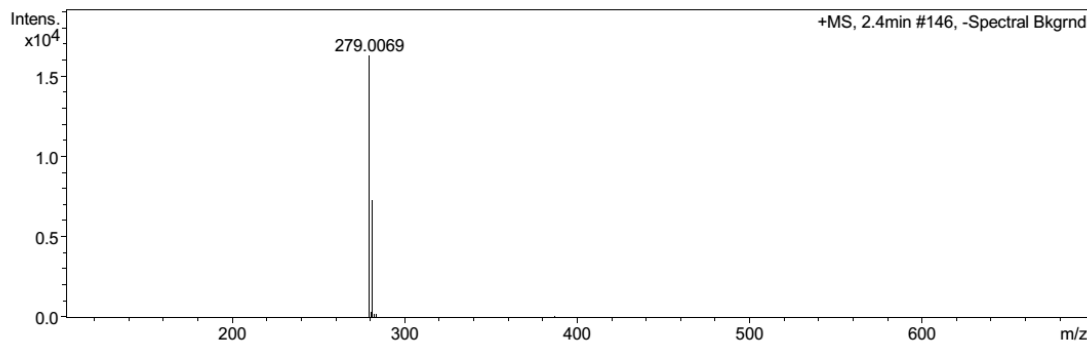
Operator ANH MAI
Instrument micrOTOF-Q 10187

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Not active	Set Capillary	4500 V	Set Dry Heater	200 °C
Scan Begin	100 m/z	Set End Plate Offset	-500 V	Set Dry Gas	6.5 l/min
Scan End	1000 m/z	Set Collision Cell RF	250.0 Vpp	Set Divert Valve	Source

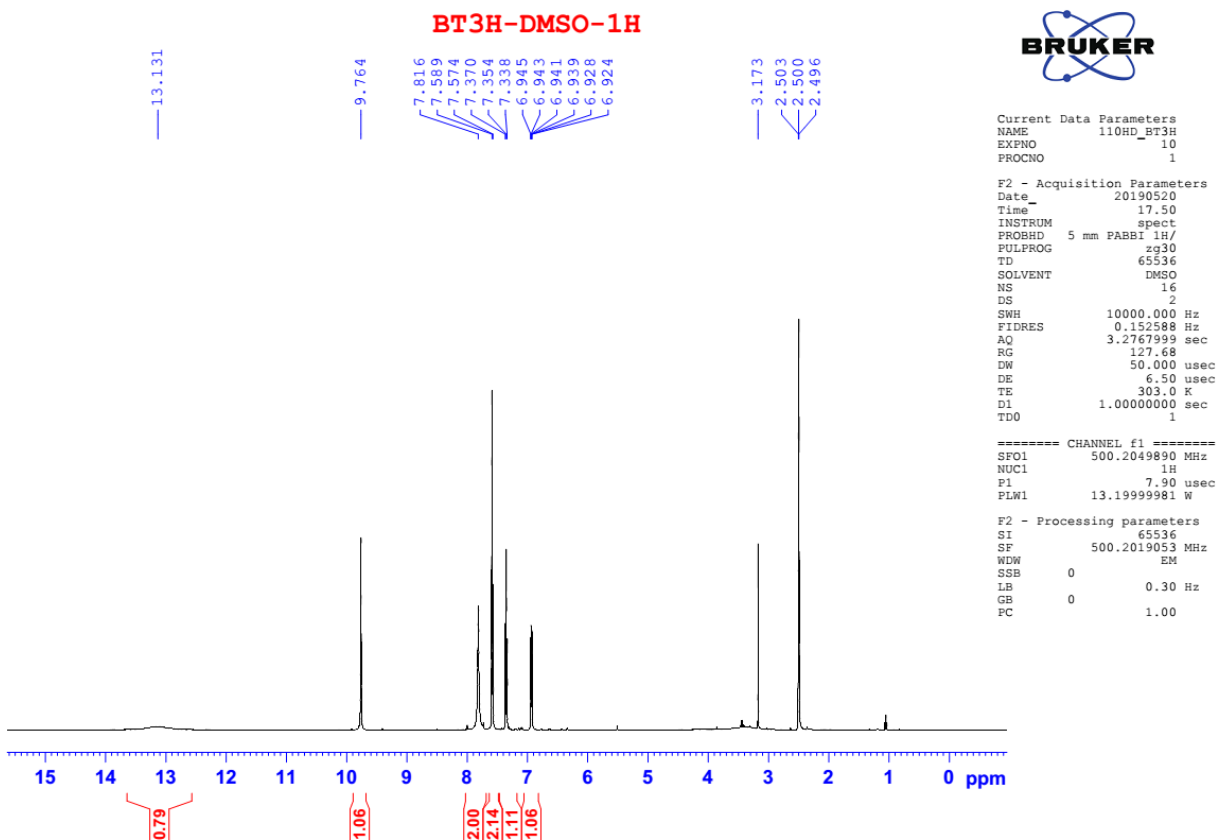


TIC +All MS, -Spectral Bkgrnd



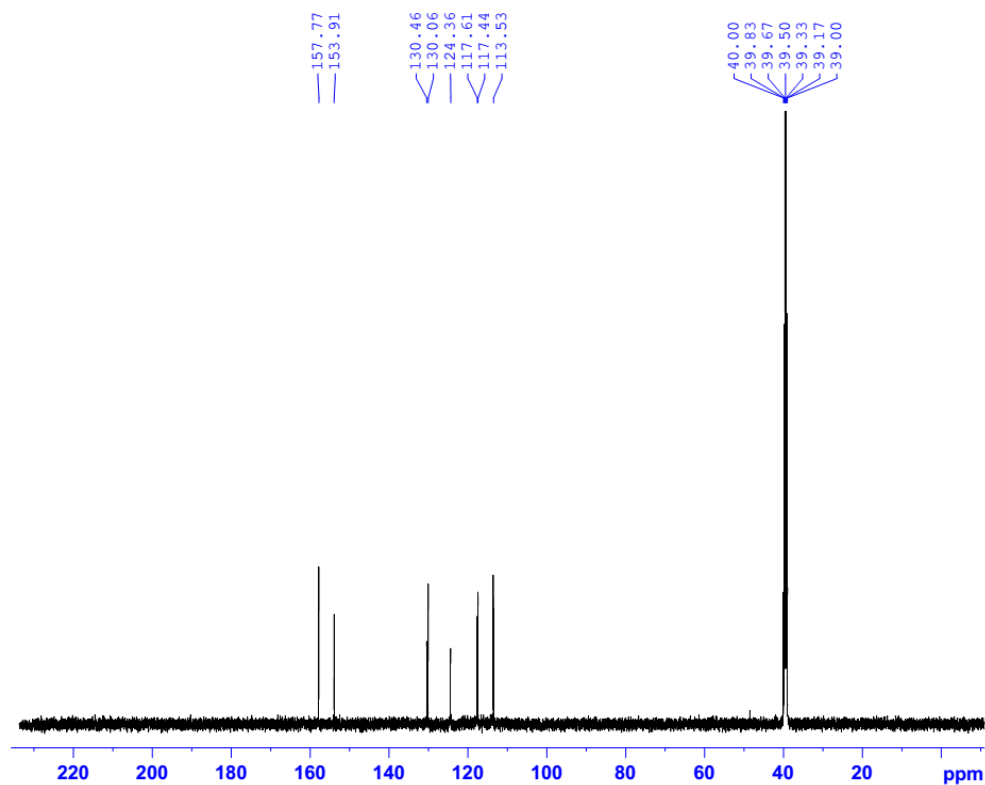
3-(5,6-Dichloro-1H-benzoimidazol-2-yl)phenol (**27**):

^1H – NMR



^{13}C – NMR

BT3H-DMSO-C13CPD



Current Data Parameters
NAME 110HD_BT3H
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190521
Time 9.16
INSTRUM spect
PROBHD 5 mm PABBI 1H/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 256
DS 4
SWH 31250.000 Hz
FIDRES 0.476837 Hz
AQ 1.0485760 sec
RG 198.57
DW 16.000 usec
DE 6.50 usec
TE 303.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7897032 MHz
NUC1 13C
P1 15.40 usec
PLW1 81.00000000 W

===== CHANNEL f2 =====
SFO2 500.2039008 MHz
NUC2 1H
CFDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 13.19999981 W
PLW12 0.12872000 W
PLW13 0.08238100 W

F2 - Processing parameters
SI 32768
SF 125.7758678 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

Display Report

Analysis Info

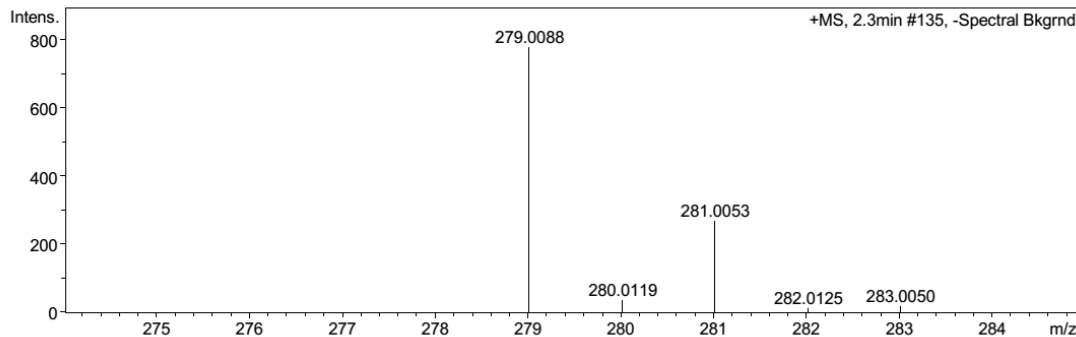
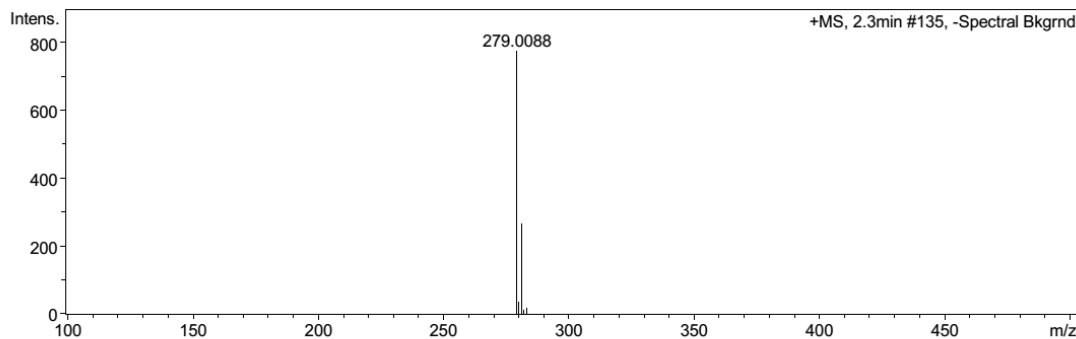
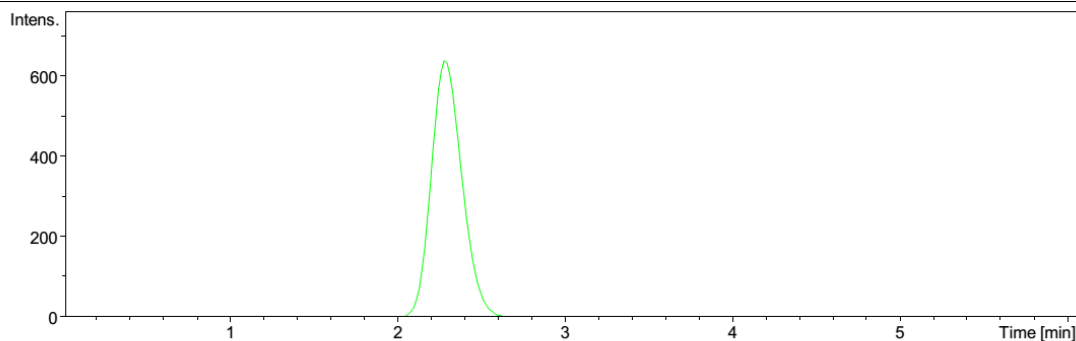
Analysis Name D:\Data\2019\thang 05\BT3H-XT_1-C,9_01_1716.d
Method protein my mass tb.m
Sample Name BT3H-XT
Comment

Acquisition Date 6/20/2019 9:06:28 PM

Operator ANH MAI
Instrument microTOF-Q 10187

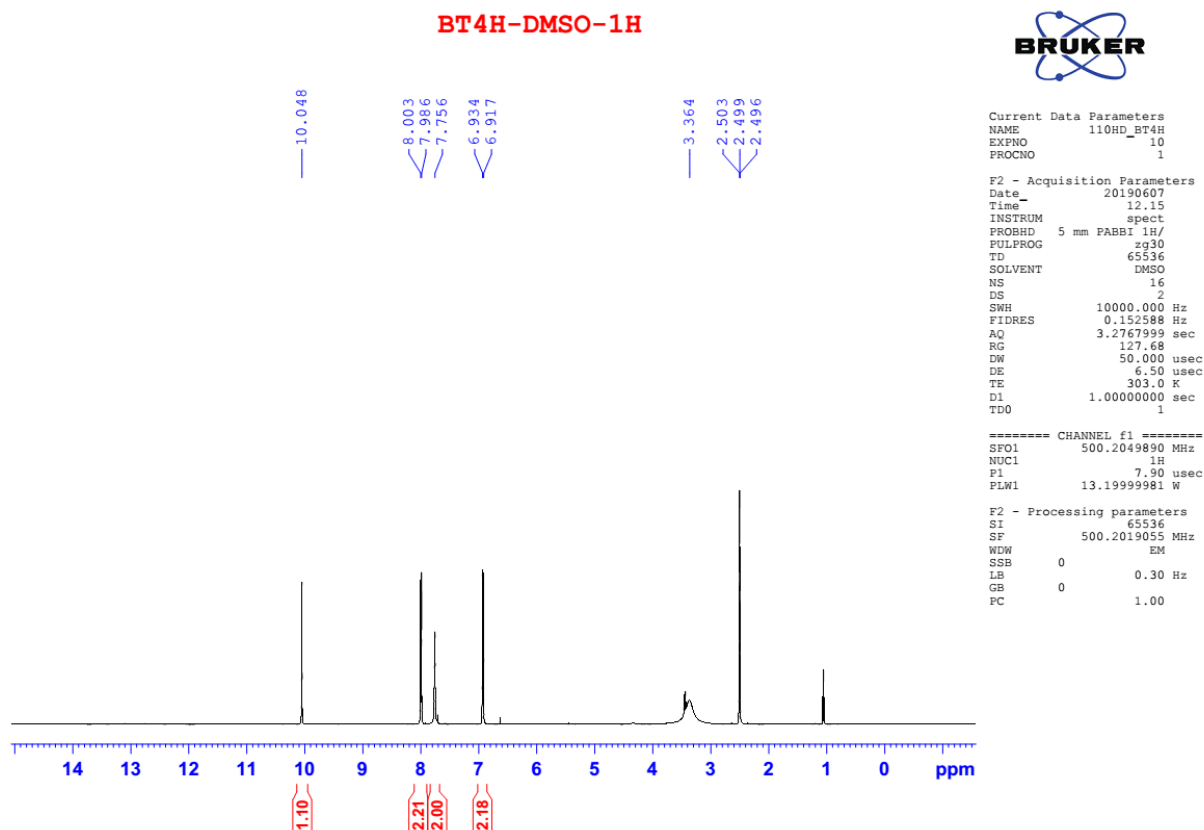
Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Not active	Set Capillary	4500 V	Set Dry Heater	200 °C
Scan Begin	100 m/z	Set End Plate Offset	-500 V	Set Dry Gas	6.5 l/min
Scan End	1000 m/z	Set Collision Cell RF	250.0 Vpp	Set Divert Valve	Source



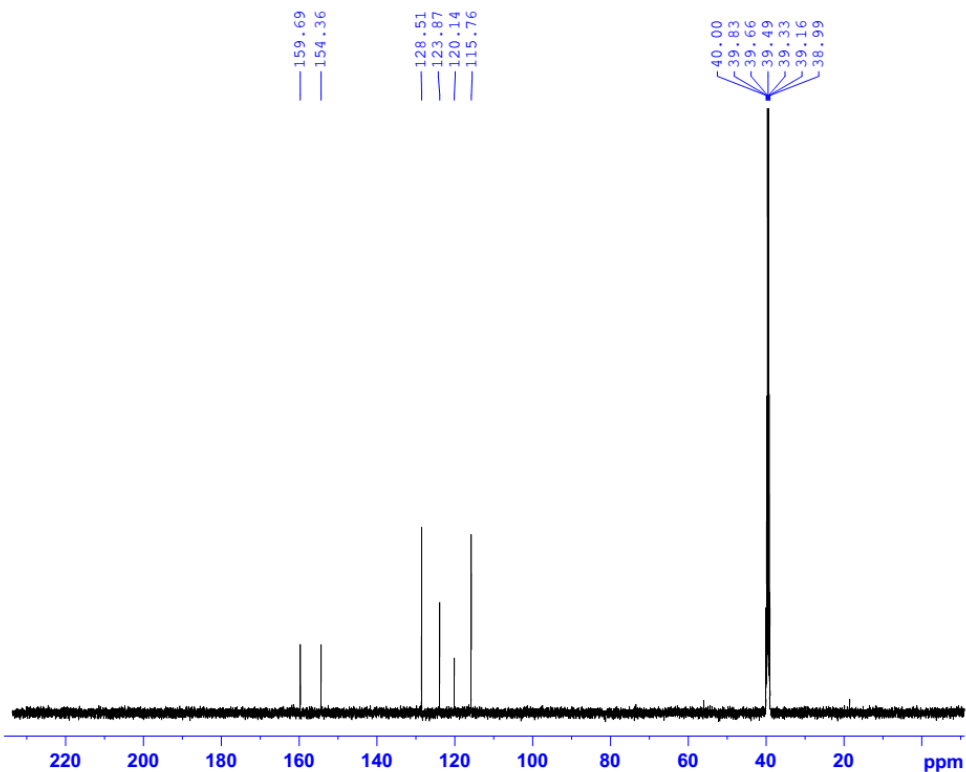
4-(5,6-Dichloro-1H-benzoimidazol-2-yl)phenol (**28**):

¹H – NMR



^{13}C – NMR

BT4H-DMSO-C13CPD



Current Data Parameters
NAME 110HD_BT4H
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190607
Time 15.22
INSTRUM spect
PROBHD 5 mm PABBI 1H/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 256
DS 4
SWH 31250.000 Hz
FIDRES 0.476837 Hz
AQ 1.0485760 sec
RG 198.57
DW 16.000 usec
DE 6.50 usec
TE 303.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 125.7897032 MHz
NUC1 13C
P1 15.40 usec
PLW1 81.00000000 W

===== CHANNEL f2 =====
SF02 500.2039008 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 13.19999981 W
PLW12 0.12872000 W
PLW13 0.08238100 W

F2 - Processing parameters
SI 32768
SF 125.7759325 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

Display Report

Analysis Info

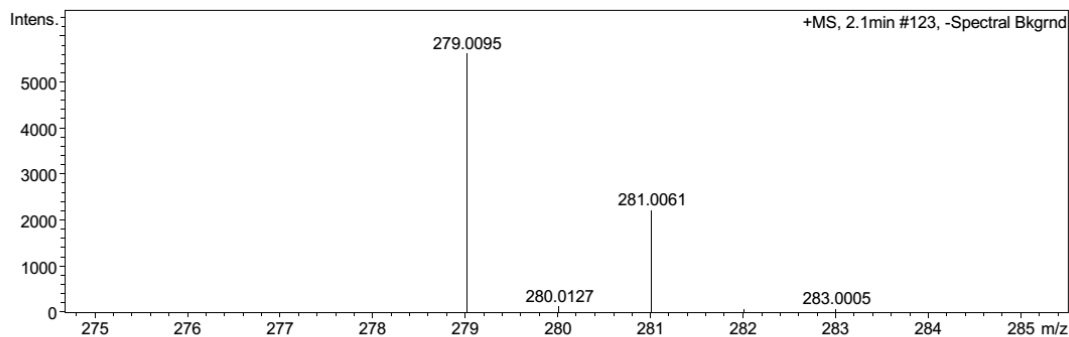
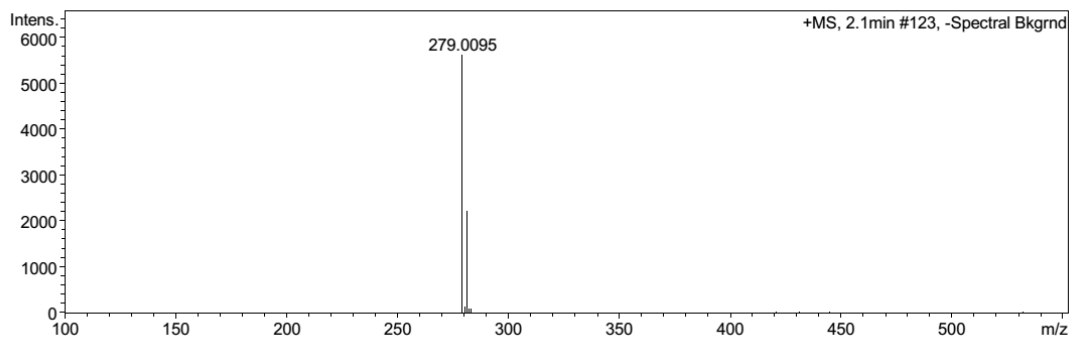
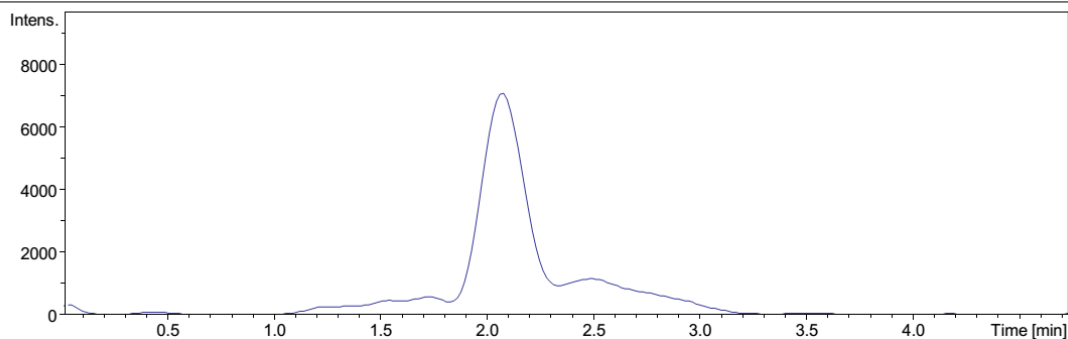
Analysis Name D:\Data\2019\thang 05\BT4H_1-C,8_01_1715.d
Method protein my mass tb.m
Sample Name BT4H
Comment

Acquisition Date 6/20/2019 8:59:45 PM

Operator ANH MAI
Instrument micrOTOF-Q 10187

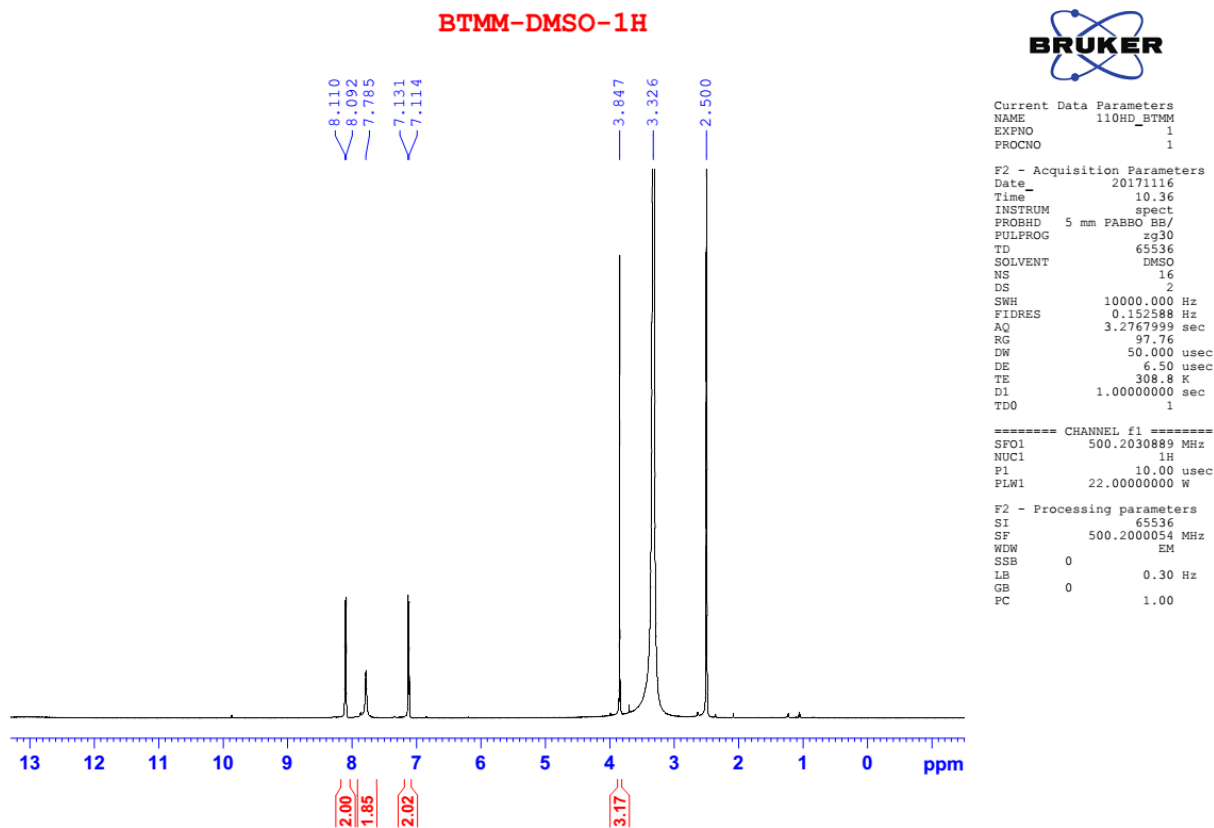
Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Not active	Set Capillary	4500 V	Set Dry Heater	200 °C
Scan Begin	100 m/z	Set End Plate Offset	-500 V	Set Dry Gas	6.5 l/min
Scan End	1000 m/z	Set Collision Cell RF	250.0 Vpp	Set Divert Valve	Source



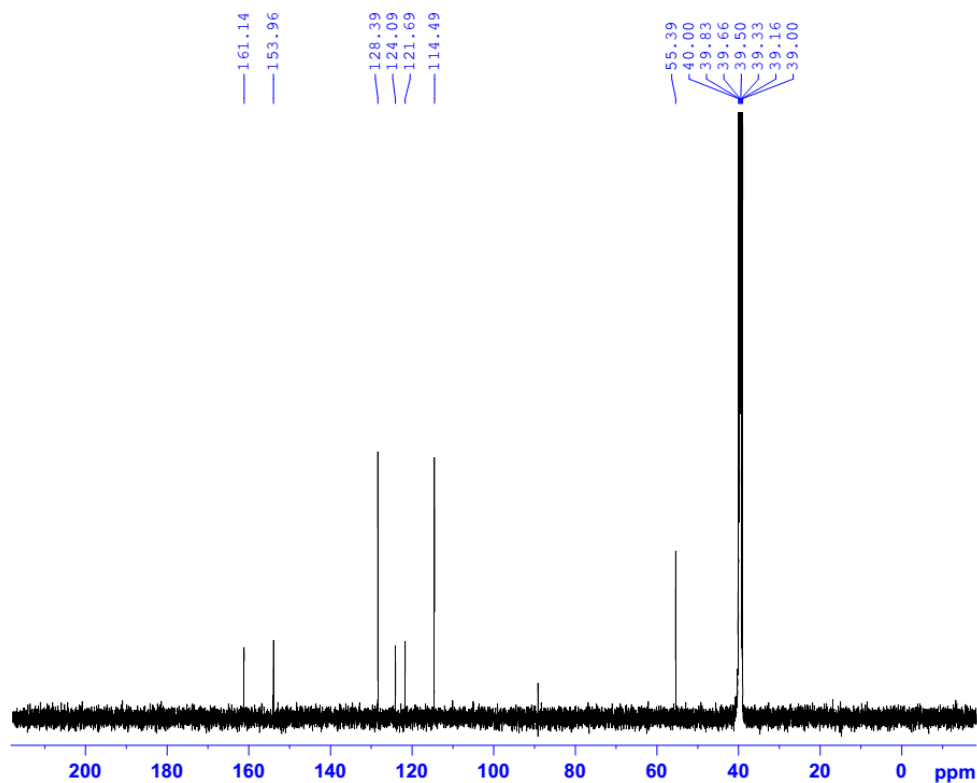
5,6-Dichloro-2-(4-methoxy-phenyl)-1H-benzimidazole (29):

^1H – NMR



^{13}C – NMR

BTMM-DMSO-C13CPD



Current Data Parameters
NAME 110HD_BTMM
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20171116
Time 12.42
INSTRUM spect
PROBHD 5 mm F4BBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 2048
DS 4
SWH 29761.904 Hz
FIDRES 0.454131 Hz
AQ 1.1010048 sec
RG 198.57
DW 16.800 usec
DE 6.50 usec
TE 304.4 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7879670 MHz
NUC1 13C
P1 10.00 usec
PLW1 88.00000000 W

===== CHANNEL f2 =====
SFO2 500.2020008 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 80.00 usec
PLW2 22.00000000 W
PLW12 0.34375000 W
PLW13 0.22000000 W

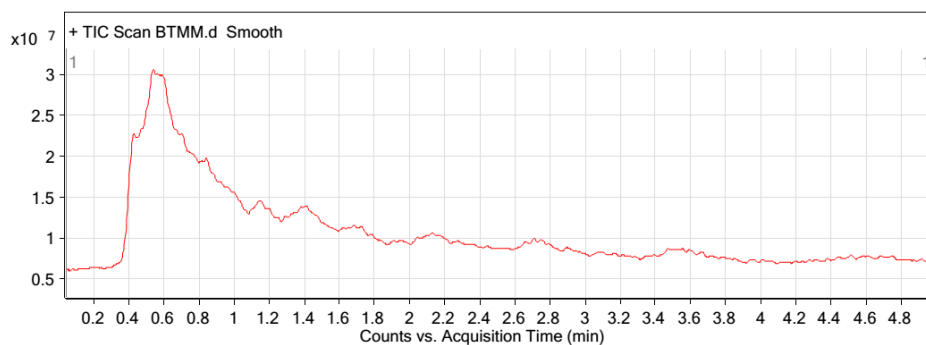
F2 - Processing parameters
SI 32768
SF 125.7753900 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

Qualitative Analysis Report

Data File	BTMM.d	Sample Name	BTMM
Sample Type	Sample	Position	P1-D3
Instrument Name	Instrument 1	User Name	
Acq Method	All Ion MSMS-Positive-100MeOH.m	Acquired Time	25/11/2017 12:11:11 PM
IRM Calibration Status	Success	DA Method	GS ton du.m
Comment			
Sample Group		Info.	
Stream Name	LC 1	Acquisition SW Version	6200 series TOF/6500 series Q-TOF B.06.01 (B6172 SP1)

User Chromatograms

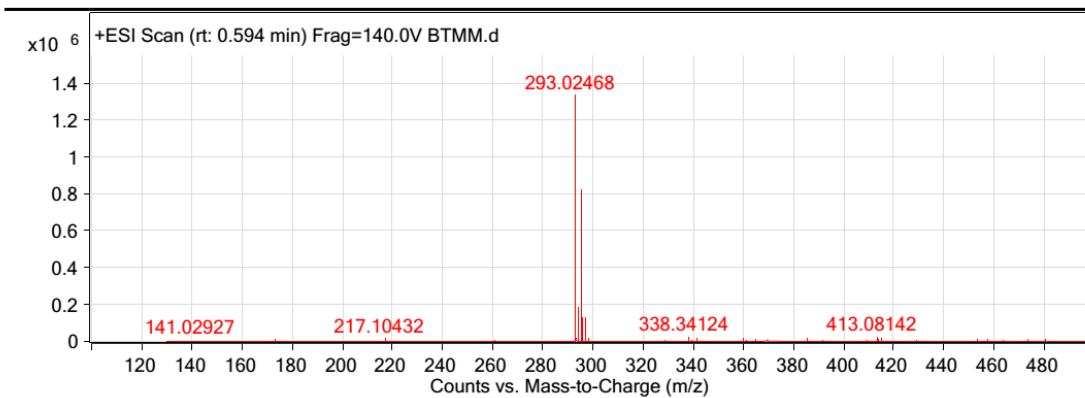
Fragmentor Voltage 140 Collision Energy 0 Ionization Mode ESI



User Spectra

Fragmentor Voltage 140 Collision Energy 0 Ionization Mode ESI

Qualitative Analysis Report



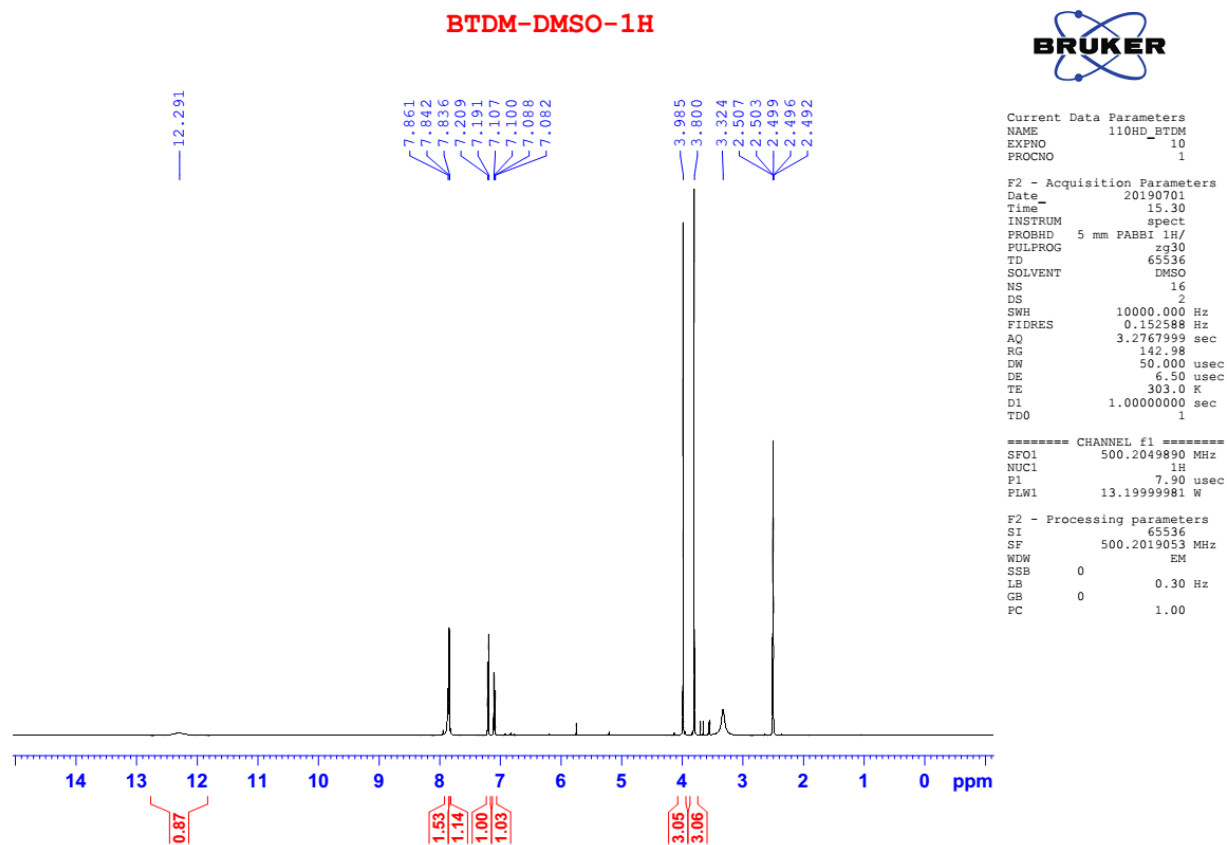
Peak List

m/z	z	Abund
293.02468	1	1334829.86
293.09217	1	102394.43
294.02821	1	182840.32
295.02184	1	832993.17
295.08953	1	62855.29
296.02483	1	138426.77
297.01924	1	134981.24
413.08142	1	27598.3
683.30097	1	41716.35
685.29951	1	29105.92

--- End Of Report ---

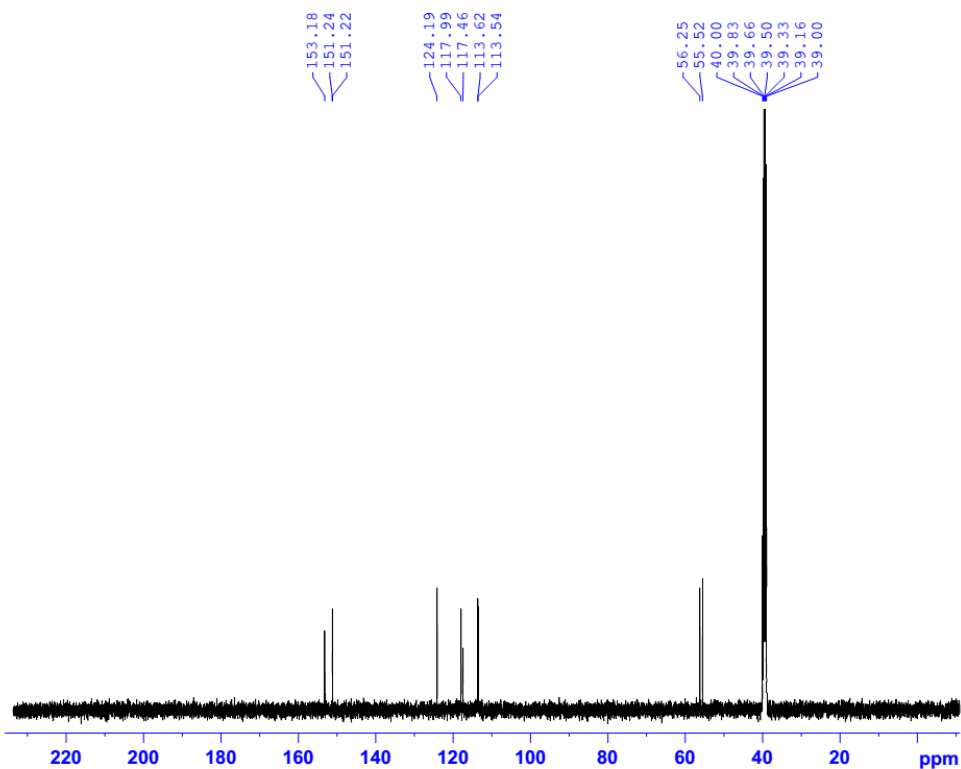
5,6-Dichloro-2-(2,5-dimethoxyphenyl)-1H-benzo[d]imidazole (**30**):

^1H – NMR



^{13}C – NMR

BTDM-DMSO- C13CPD



Current Data Parameters
NAME 110HD_BTDM
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date 20190702
Time 13.56
INSTRUM spect
PROBHD 5 mm FABB1 1H/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 256
DS 4
SWH 31250.000 Hz
FIDRES 0.476837 Hz
AQ 1.0485760 sec
RG 198.57
DW 16.000 usec
DE 6.50 usec
TE 303.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7897032 MHz
NUC1 13C
P1 15.40 usec
PLW1 81.00000000 W

===== CHANNEL f2 =====
SFO2 500.2039008 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 13.19999981 W
PLW12 0.12872000 W
PLW13 0.08238100 W

F2 - Processing parameters
SI 32768
SF 125.7759349 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

Display Report

Analysis Info

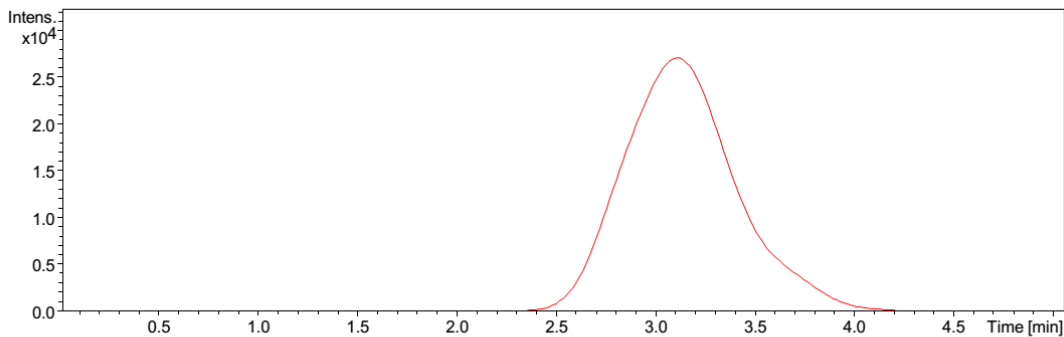
Analysis Name D:\Data2019\thang 05BTDM_1-D,5_01_2200.d
Method dmm 2016 low mass.m
Sample Name BTDM
Comment

Acquisition Date 7/30/2019 4:31:26 PM

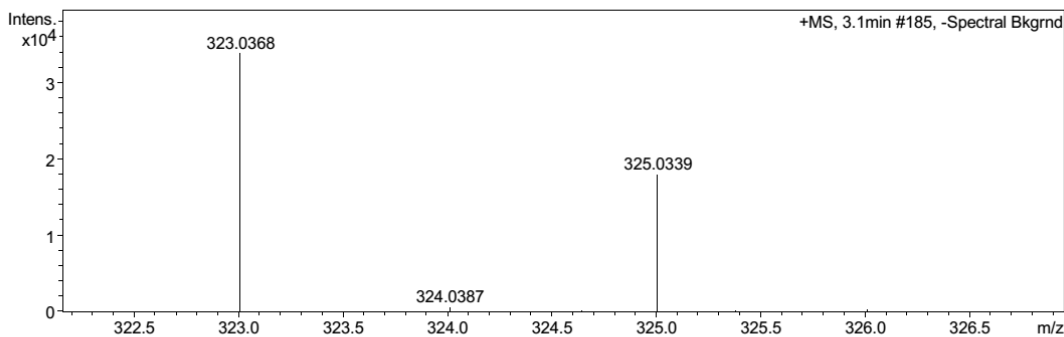
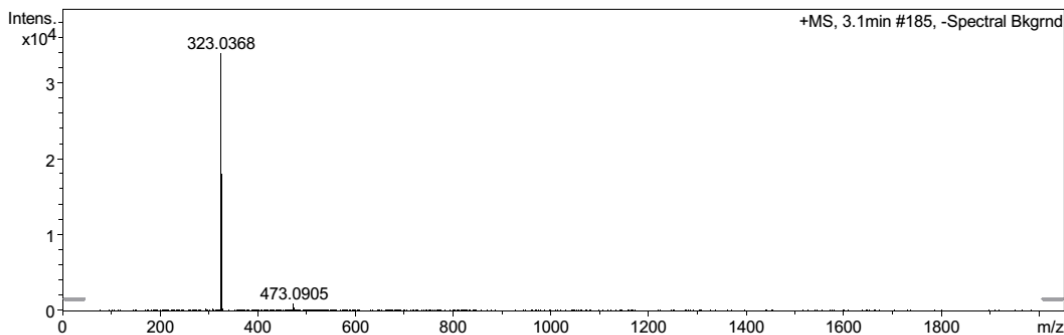
Operator ANH MAI
Instrument micrOTOF-Q 10187

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Active	Set Capillary	4500 V	Set Dry Heater	250 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	6.5 l/min
Scan End	2000 m/z	Set Collision Cell RF	520.0 Vpp	Set Divert Valve	Source

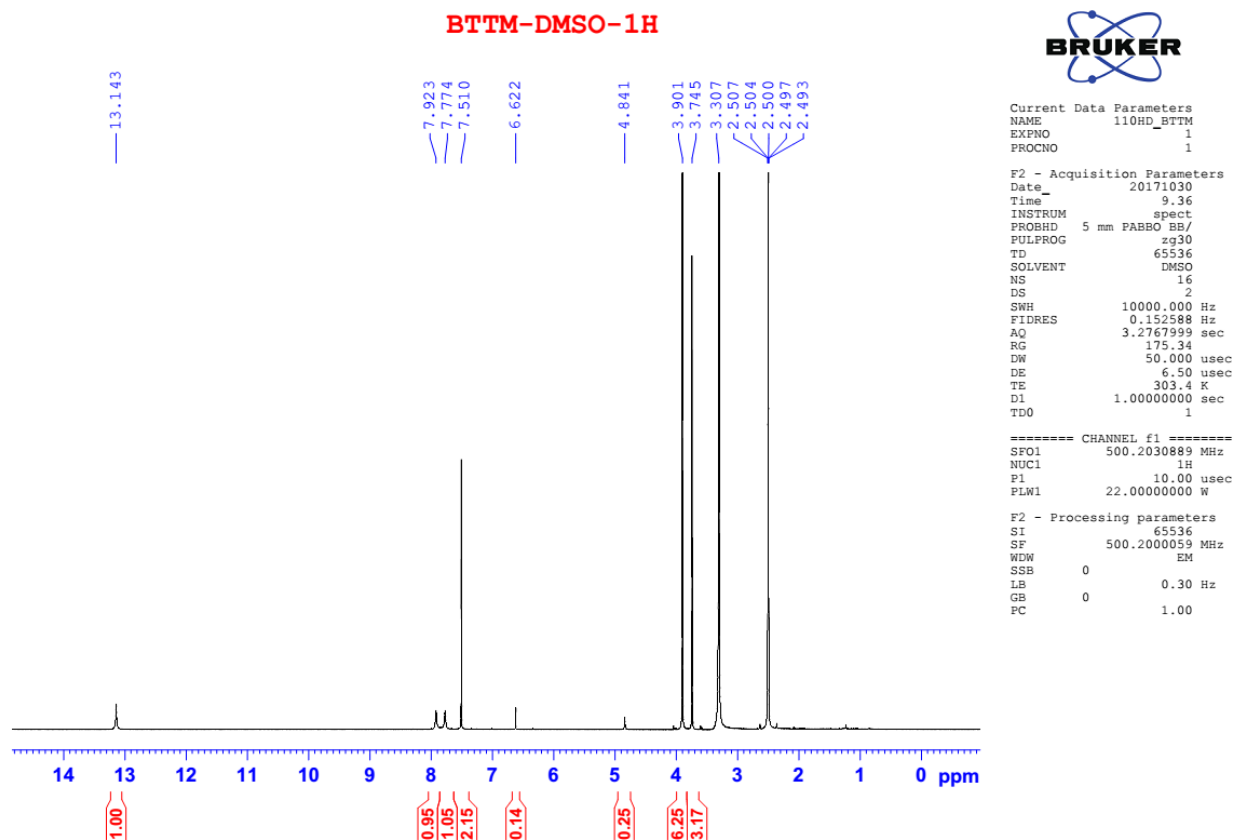


EIC 323.0000 +All MS, -Spectral Bkgrnd, Smoothed 5.03,2,GA)



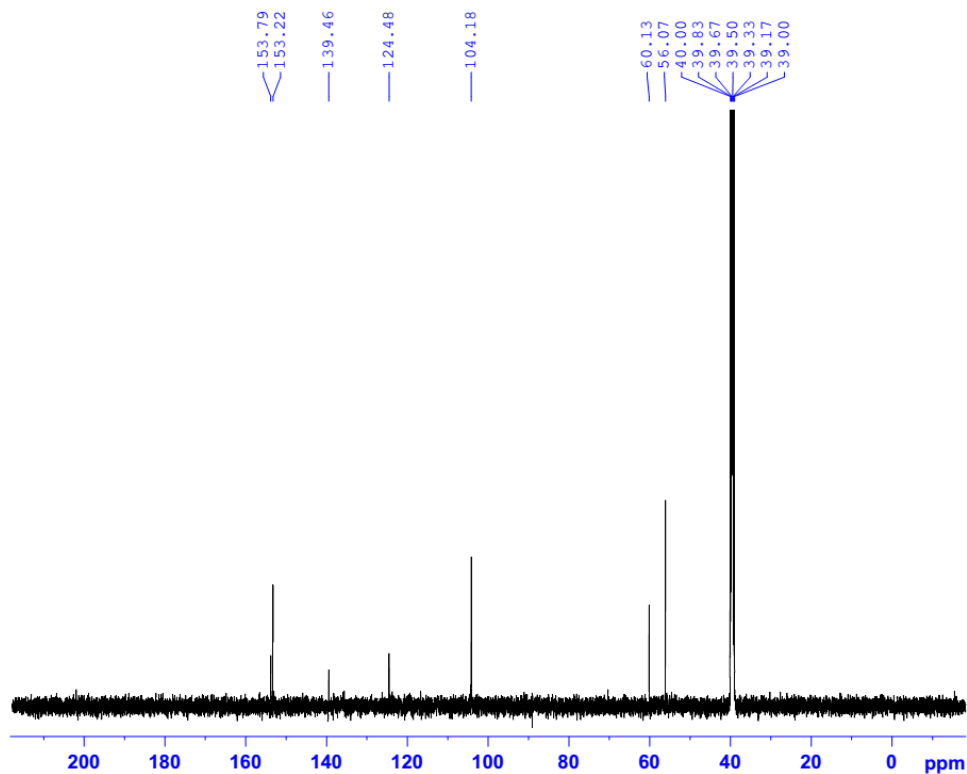
5,6-Dichloro-2-(3,4,5-trimethoxy-phenyl)-1H-benzimidazole (31):

^1H – NMR



^{13}C – NMR

BTM-DMSO- C_{13}CPD



Current Data Parameters
NAME 110HD_BTMM
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20171102
Time 9.17
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 2048
DS 4
SWH 29761.904 Hz
FIDRES 0.454131 Hz
AQ 1.1010048 sec
RG 198.57
DW 16.800 usec
DE 6.50 usec
TE 303.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

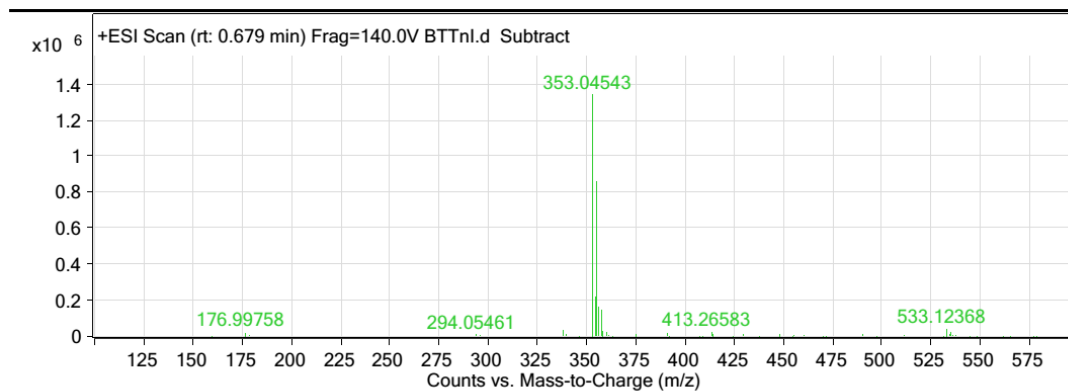
===== CHANNEL f1 =====
SFO1 125.7879670 MHz
NUC1 ^{13}C
P1 10.00 usec
PLW1 88.00000000 W

===== CHANNEL f2 =====
SFO2 500.2020008 MHz
NUC2 ^1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 22.00000000 W
PLW12 0.34375000 W
PLW13 0.22000000 W

F2 - Processing parameters
SI 32768
SF 125.7754560 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

HRMS

Qualitative Analysis Report



Peak List

m/z	z	Abund
338.34079	1	31623.74
353.04543	1	1341906.5
353.11725		103068.48
354.04934	1	216297.97
355.04278	1	859096.25
356.04577	1	158752.89
357.04048	1	146714.36
533.12368	1	37446.61
743.3228	1	51240.3
745.32098	1	36014.19

--- End Of Report ---

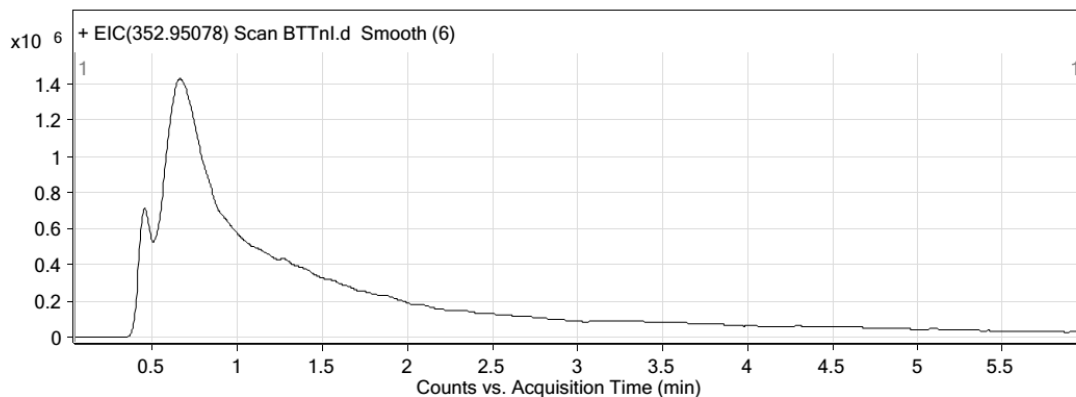


Qualitative Analysis Report

Data File	BTTnI.d	Sample Name	BTTnI
Sample Type	Sample	Position	P1-B1
Instrument Name	Instrument 1	User Name	
Acq Method	All Ion MSMS-Positive-100MeOH.m	Acquired Time	11/2/2017 3:25:28 PM
IRM Calibration Status	Success	DA Method	Khao sat ton du.m
Comment			
Sample Group			
Stream Name	LC 1	Info.	
		Acquisition SW Version	6200 series TOF/6500 series Q-TOF B.06.01 (B6172 SP1)

User Chromatograms

Fragmentor Voltage 140 Collision Energy 0 Ionization Mode ESI



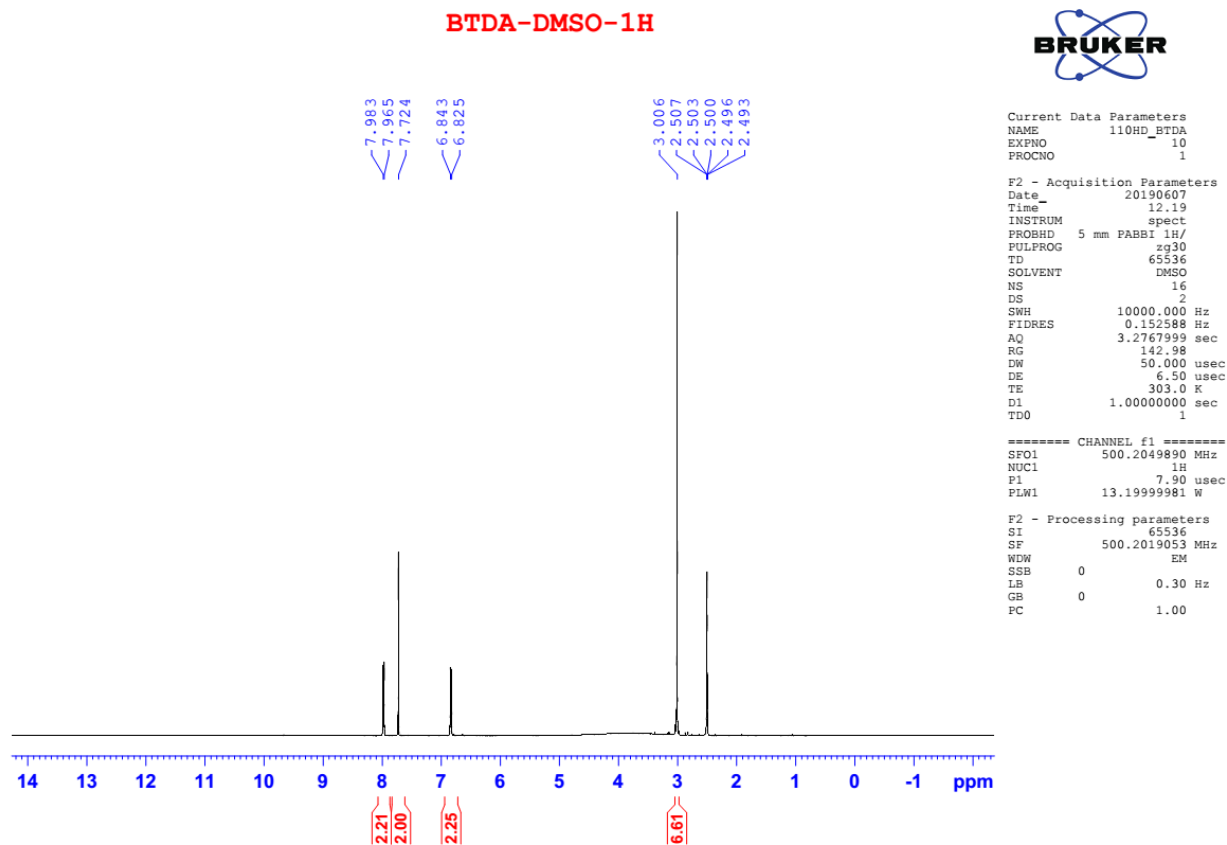
User Spectra

Fragmentor Voltage 140 Collision Energy 0 Ionization Mode ESI



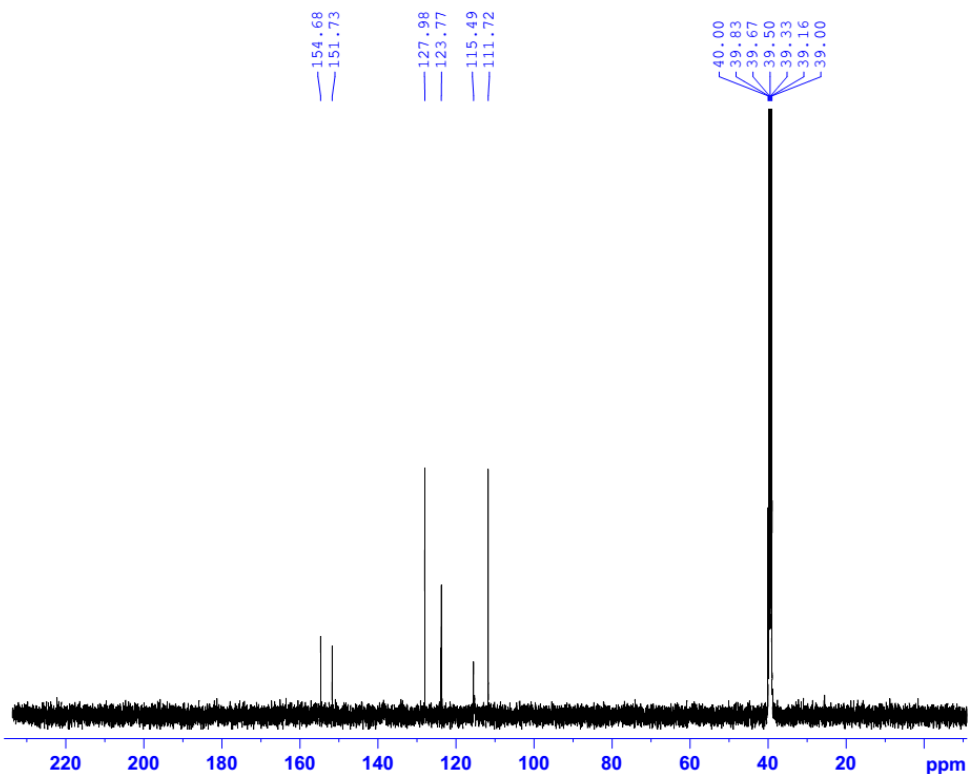
4-(5,6-Dichloro-1H-benzo[d]imidazol-2-yl)-N,N-dimethylaniline (32):

^1H – NMR



^{13}C – NMR

BTDA-DMSO-C13CPD



Current Data Parameters
NAME 110HD_BTDA
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190607
Time 15.34
INSTRUM spect
PROBHD 5 mm FABBI 1H/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 256
DS 4
SWH 31250.000 Hz
FIDRES 0.476837 Hz
AQ 1.0485760 sec
RG 198.57
DW 16.000 usec
DE 6.50 usec
TE 303.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7897032 MHz
NUC1 13C
P1 15.40 usec
PLW1 81.00000000 W

===== CHANNEL f2 =====
SFO2 500.2039008 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 13.19999981 W
PLW12 0.12872000 W
PLW13 0.08238100 W

F2 - Processing parameters
SI 32768
SF 125.7759335 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

Display Report

Analysis Info

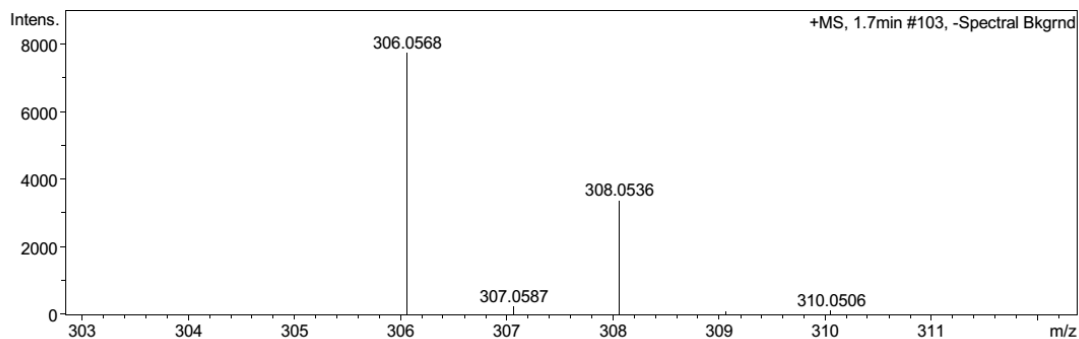
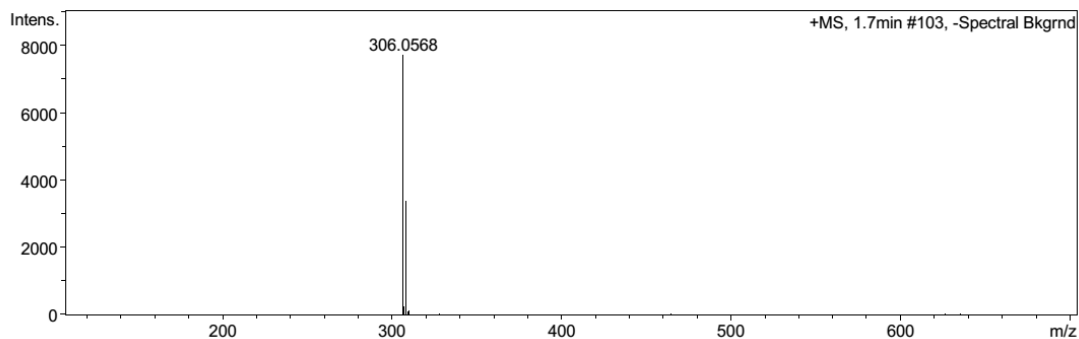
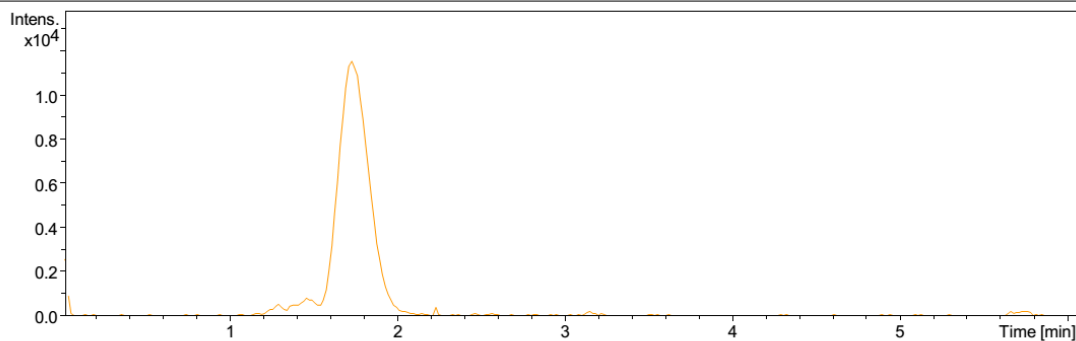
Analysis Name D:\Data\2019\thang 05\BTDA_1-C,6_01_1713.d
Method protein my mass tb.m
Sample Name BTDA
Comment

Acquisition Date 6/20/2019 8:46:19 PM

Operator ANH MAI
Instrument micrOTOF-Q 10187

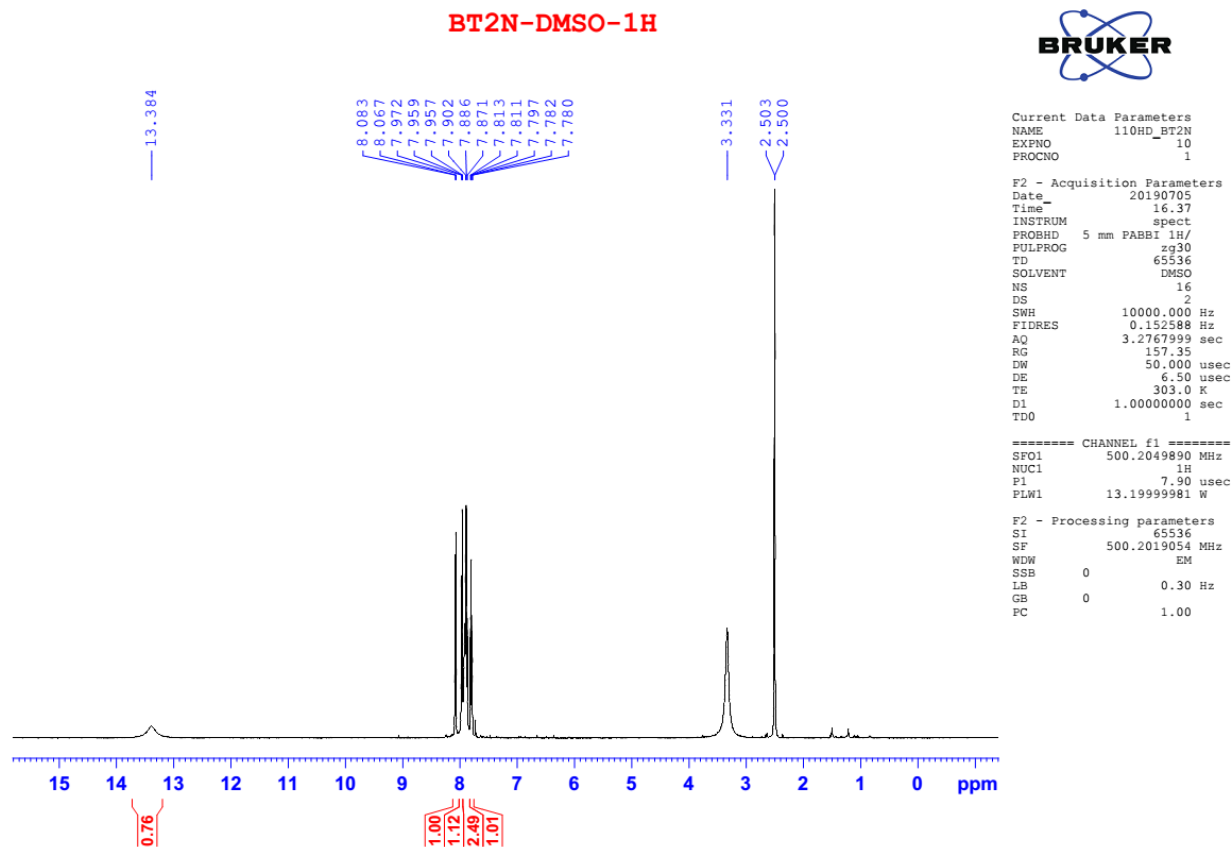
Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Not active	Set Capillary	4500 V	Set Dry Heater	200 °C
Scan Begin	100 m/z	Set End Plate Offset	-500 V	Set Dry Gas	6.5 l/min
Scan End	1000 m/z	Set Collision Cell RF	250.0 Vpp	Set Divert Valve	Source



5,6-Dichloro-2-(2-nitrophenyl)-1H-benzoimidazole (**33**):

^1H – NMR



^{13}C – NMR

BT2N-DMSO-C13CPD



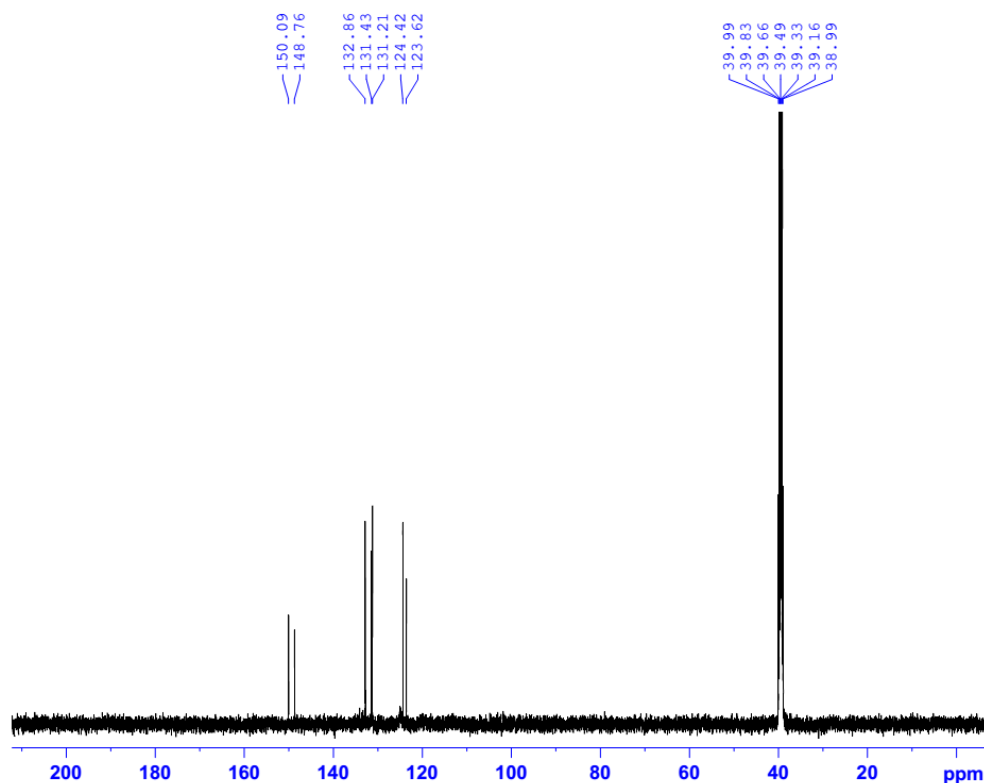
Current Data Parameters
NAME 110HD_BT2N
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190708
Time 19.10
INSTRUM spect
PROBHD 5 mm PABBI 1H/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 512
DS 4
SWH 29761.904 Hz
FIDRES 0.454131 Hz
AQ 1.1010048 sec
RG 198.57
DW 16.800 usec
DE 6.50 usec
TE 303.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1

===== CHANNEL f1 =====
SFO1 125.7884448 MHz
NUC1 ^{13}C
P1 15.40 usec
PLW1 81.00000000 W

===== CHANNEL f2 =====
SFO2 500.2039008 MHz
NUC2 ^1H
CPDPRG2 waltz16
PCPD2 80.00 usec
PLW2 13.19999981 W
PLW12 0.12872000 W
PLW13 0.08238100 W

F2 - Processing parameters
SI 32768
SF 125.7759344 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



HRMS

Display Report

Analysis Info

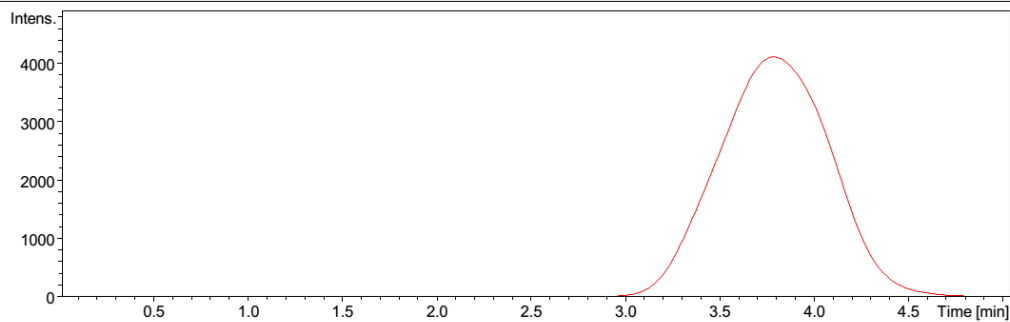
Analysis Name D:\Data2019\thang 05BT2N_1-D,5_01_2201.d
Method dmm 2016 low mass.m
Sample Name BT2N
Comment

Acquisition Date 7/30/2019 4:47:55 PM

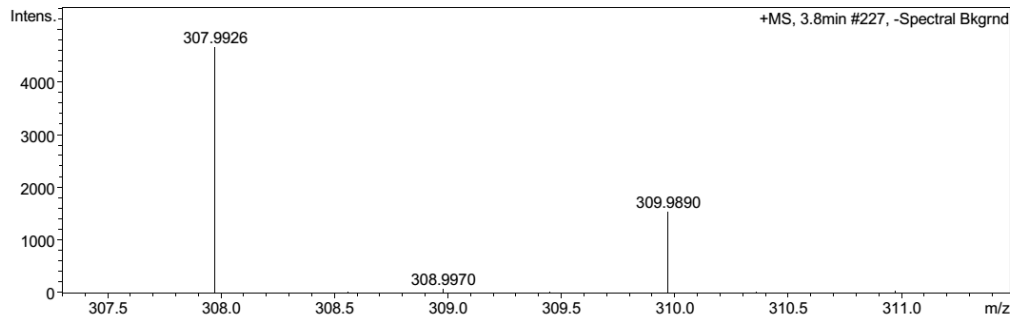
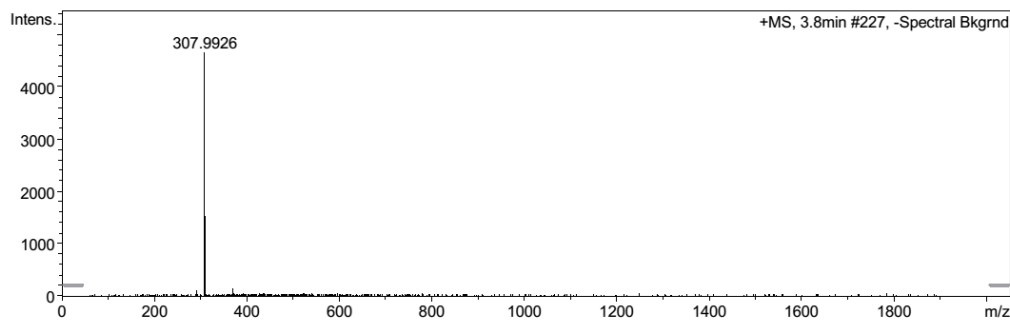
Operator ANH MAI
Instrument micrOTOF-Q 10187

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Active	Set Capillary	4500 V	Set Dry Heater	250 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	6.5 l/min
Scan End	2000 m/z	Set Collision Cell RF	520.0 Vpp	Set Divert Valve	Source

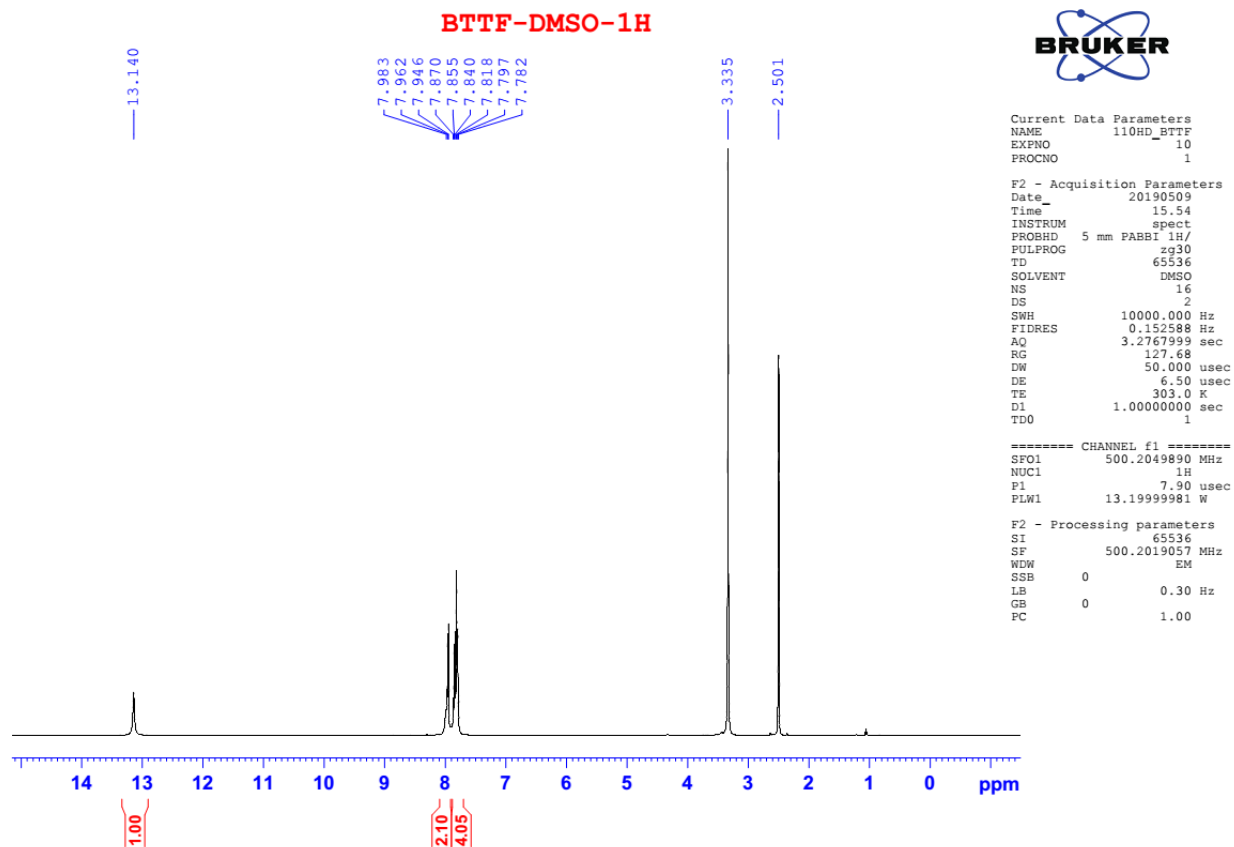


— EIC 308.0000 +All MS, -Spectral Bkgrnd, Smoothed 5.03,2,GA)



5,6-Dichloro-2-(2-trifluoromethyl-phenyl)-1H-benzoimidazole (**34**):

^1H – NMR



^{13}C – NMR

BTTF-DMSO-C13CPD



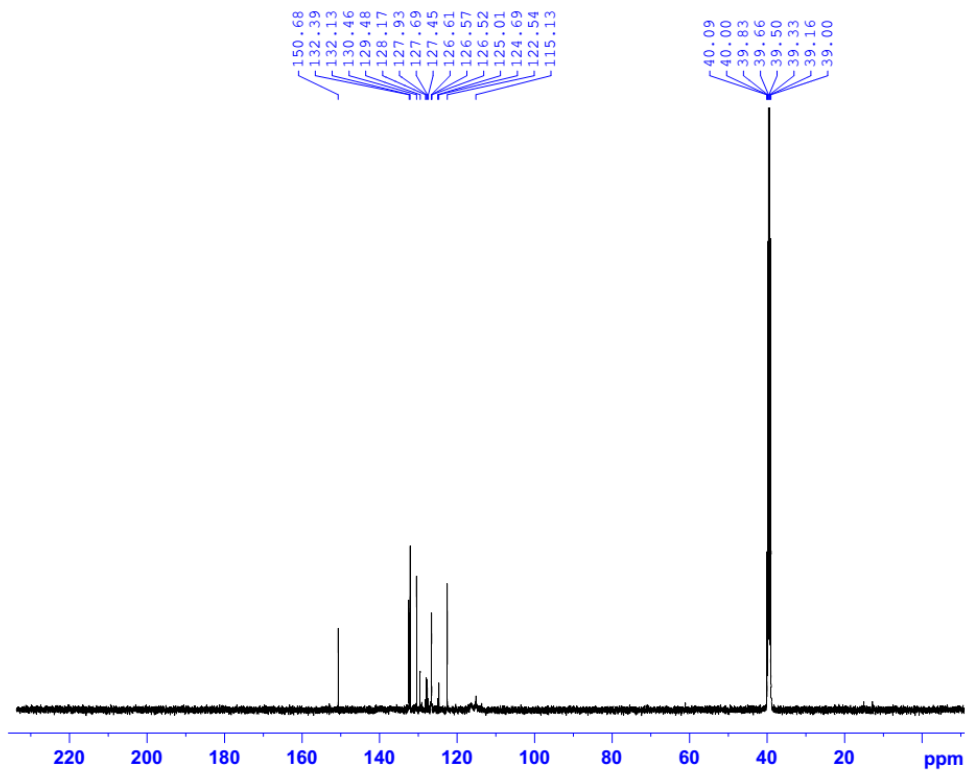
Current Data Parameters
NAME 110HD BTTF
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190510
Time 8.01
INSTRUM spect
PROBHD 5 mm PABBI 1H/
FULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 2048
DS 4
SWH 31250.000 Hz
FIDRES 0.476837 Hz
AQ 1.0485760 sec
RG 198.57
DW 16.000 usec
DE 6.50 usec
TE 303.2 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7897032 MHz
NUC1 ^{13}C
P1 15.40 usec
PLW1 81.00000000 W

===== CHANNEL f2 =====
SFO2 500.2039008 MHz
NUC2 ^1H
CPDPRG2 waltz16
PCPD2 80.00 usec
PLW2 13.19999981 W
PLW12 0.12872000 W
PLW13 0.08238100 W

F2 - Processing parameters
SI 32768
SF 125.7759341 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



HRMS

Display Report

Analysis Info

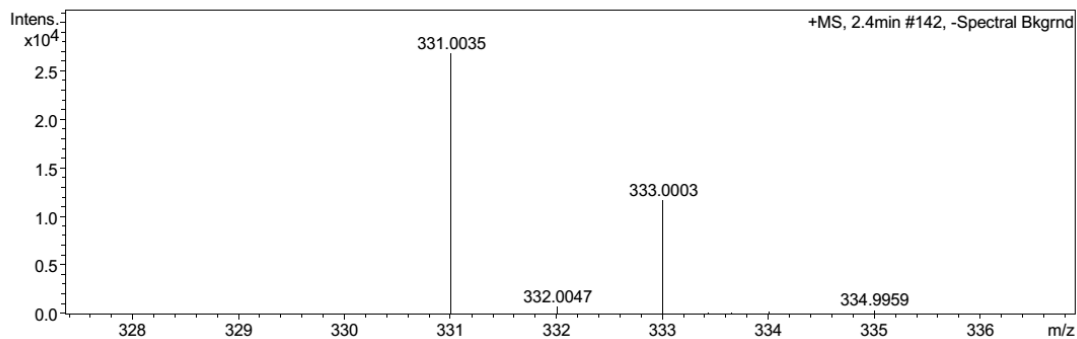
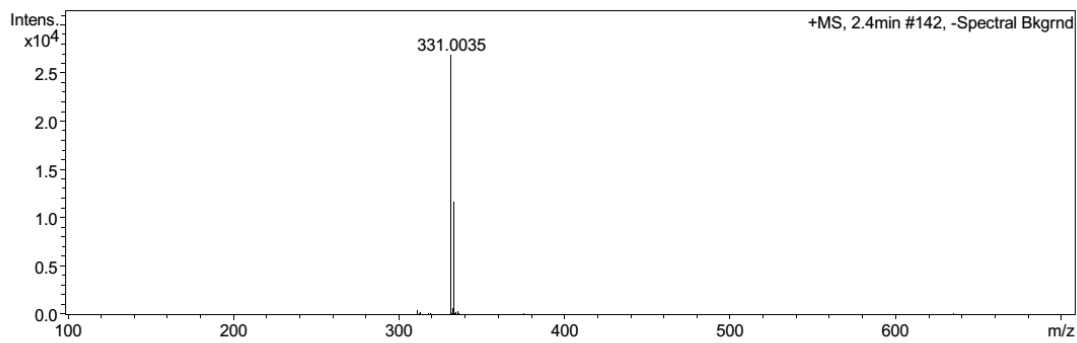
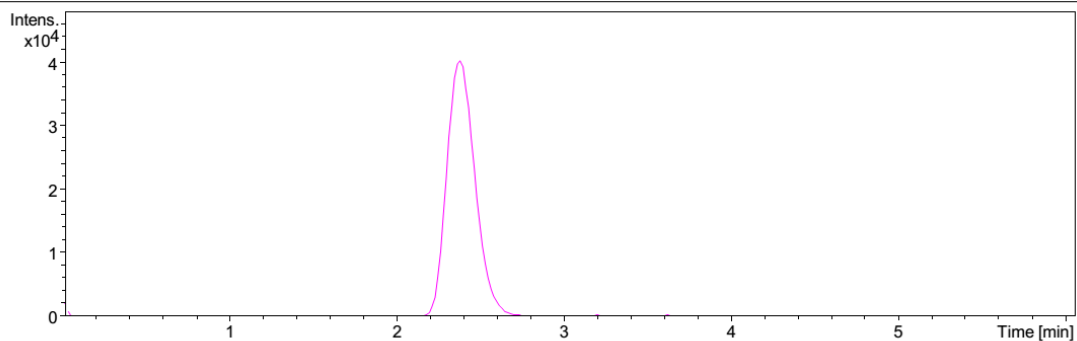
Analysis Name D:\Data\2019\thang 05\BTTF_1-B,9_01_1717.d
Method protein my mass tb.m
Sample Name BTTF
Comment

Acquisition Date 6/20/2019 9:13:10 PM

Operator ANH MAI
Instrument micrOTOF-Q 10187

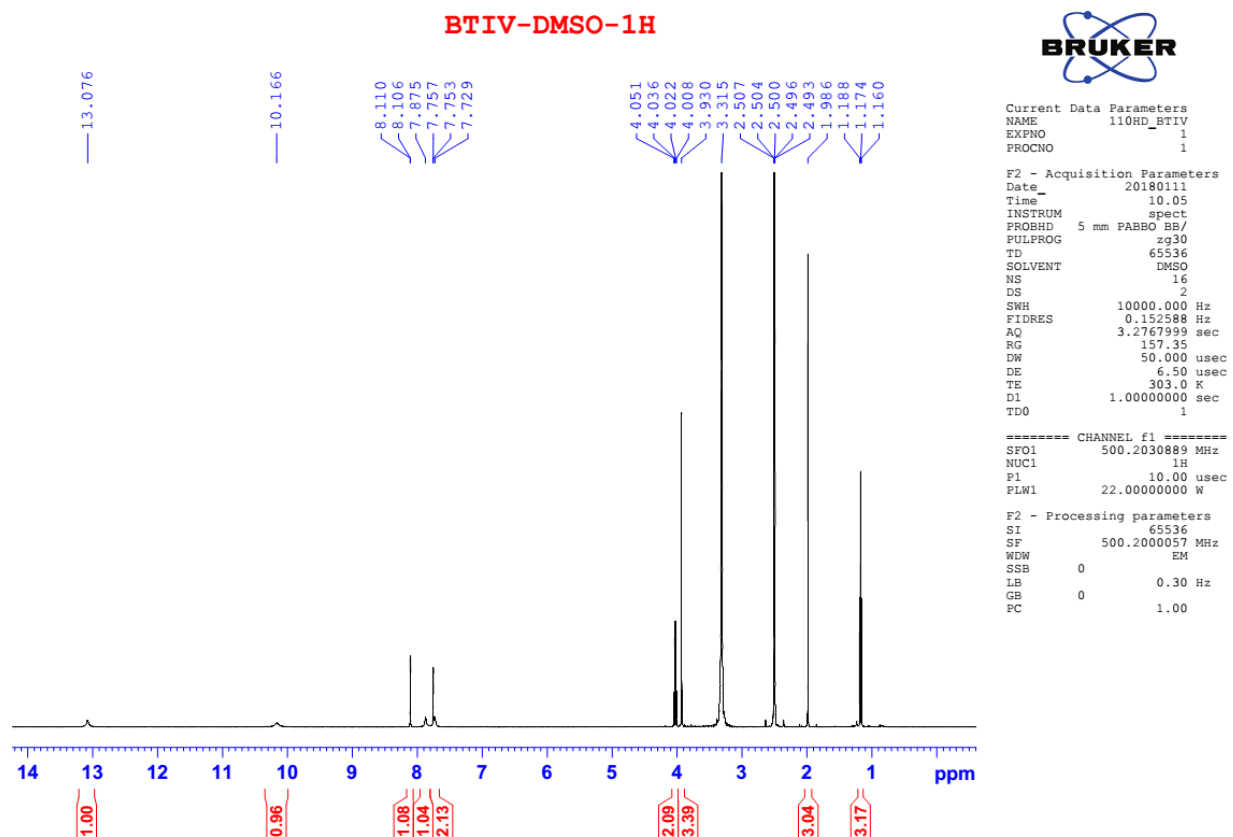
Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Not active	Set Capillary	4500 V	Set Dry Heater	200 °C
Scan Begin	100 m/z	Set End Plate Offset	-500 V	Set Dry Gas	6.5 l/min
Scan End	1000 m/z	Set Collision Cell RF	250.0 Vpp	Set Divert Valve	Source



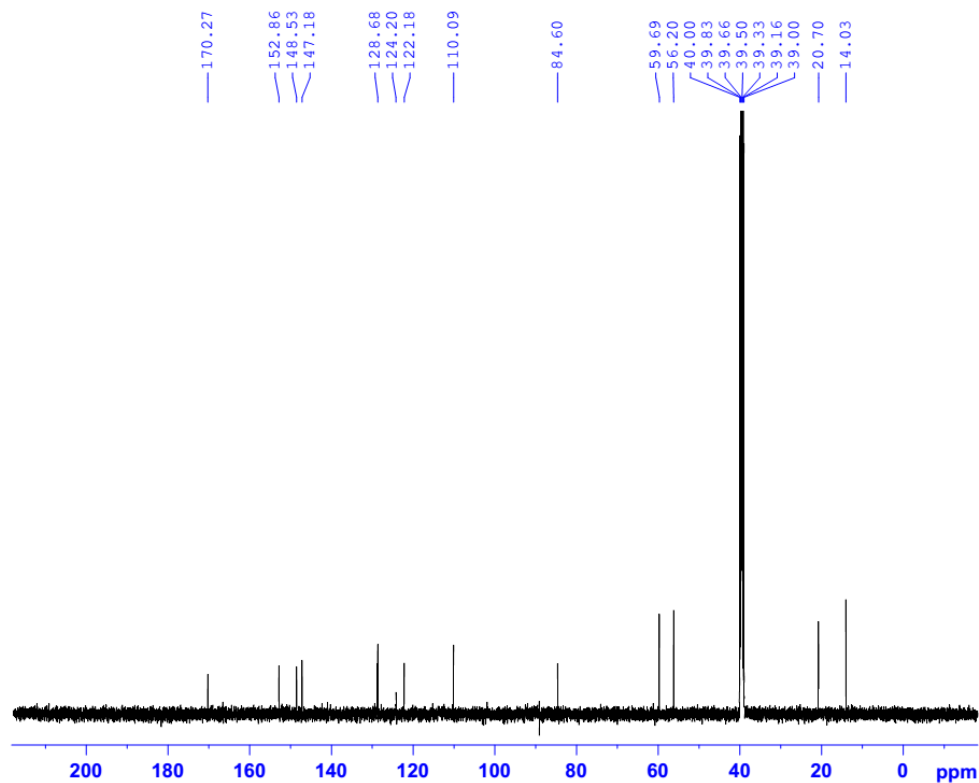
4-(5,6-Dichloro-1H-benzoimidazol-2-yl)-2-iodo-6-methoxy-phenol (**35**):

^1H – NMR



^{13}C – NMR

BTIV-DMSO-C13CPD



Current Data Parameters
NAME 110HD_BTIV
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date 20180120
Time 2.29
INSTRUM spect
PROBHD 5 mm PABSO BS/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 1024
DS 4
SWH 29761.904 Hz
FIDRES 0.454131 Hz
AQ 1.1010048 sec
RG 198.57
DW 16.800 usec
DE 6.50 usec
TE 302.1 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7879670 MHz
NUC1 13C
P1 10.00 usec
PLW1 88.00000000 W

===== CHANNEL f2 =====
SFO2 500.2020008 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 22.00000000 W
PLW12 0.34375000 W
PLW13 0.22000000 W

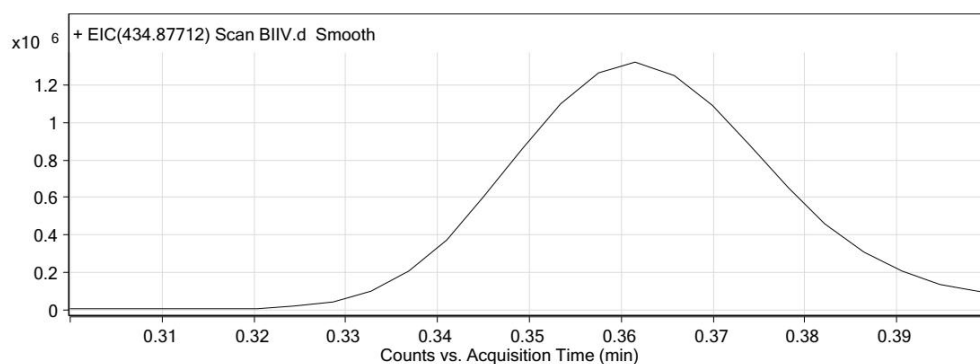
F2 - Processing parameters
SI 32768
SF 125.7754564 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

Qualitative Analysis Report

Data File	BIIV.d	Sample Name	BIIV
Sample Type	Sample	Position	P1-A9
Instrument Name	Instrument 1	User Name	
Acq Method	All Ion MSMS-Positive-100MeOH.m	Acquired Time	26/01/2018 10:05:47 AM
IRM Calibration Status	Success	DA Method	GS ton du.m
Comment			
Sample Group			
Stream Name	LC 1	Info.	
		Acquisition SW Version	6200 series TOF/6500 series Q-TOF B.06.01 (B6172 SP1)

User Chromatograms

Fragmentor Voltage	140	Collision Energy	0	Ionization Mode	ESI
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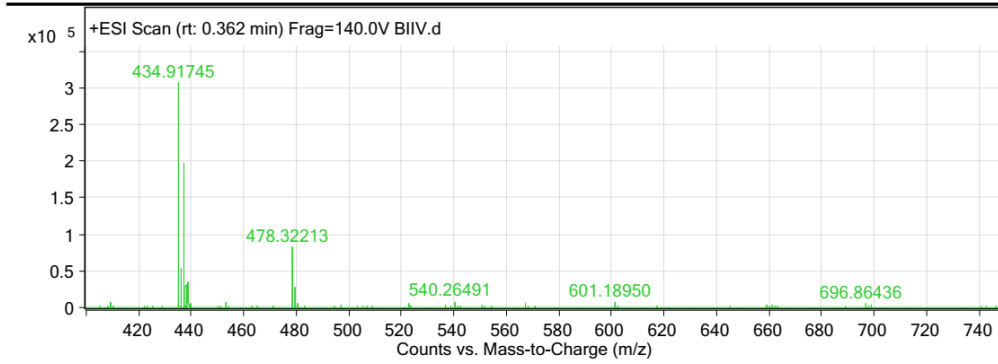


User Spectra

Fragmentor Voltage	Collision Energy	Ionization Mode
140	0	ESI



Qualitative Analysis Report



Formula Calculator Element Limits

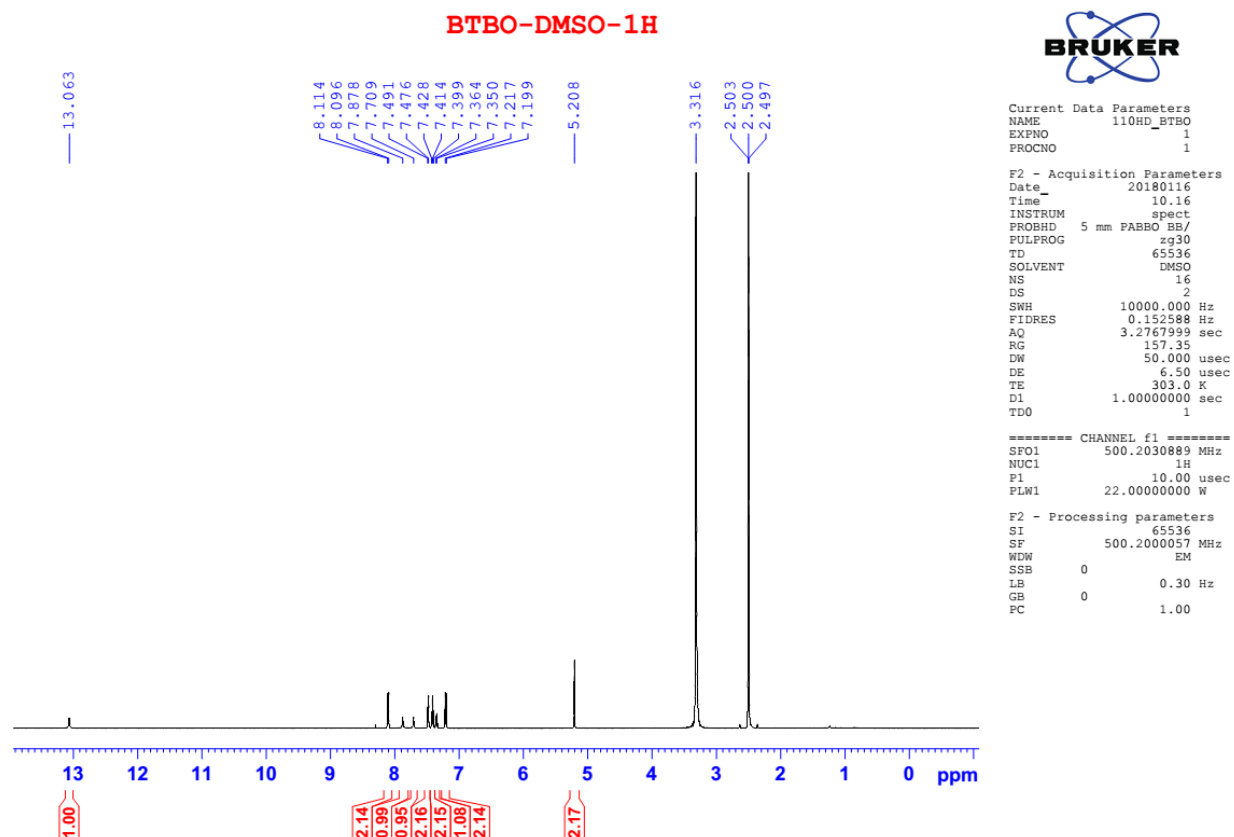
Element	Min	Max
C	3	60
H	0	120
O	0	30
N	0	30
S	0	5
Cl	0	3

--- End Of Report ---



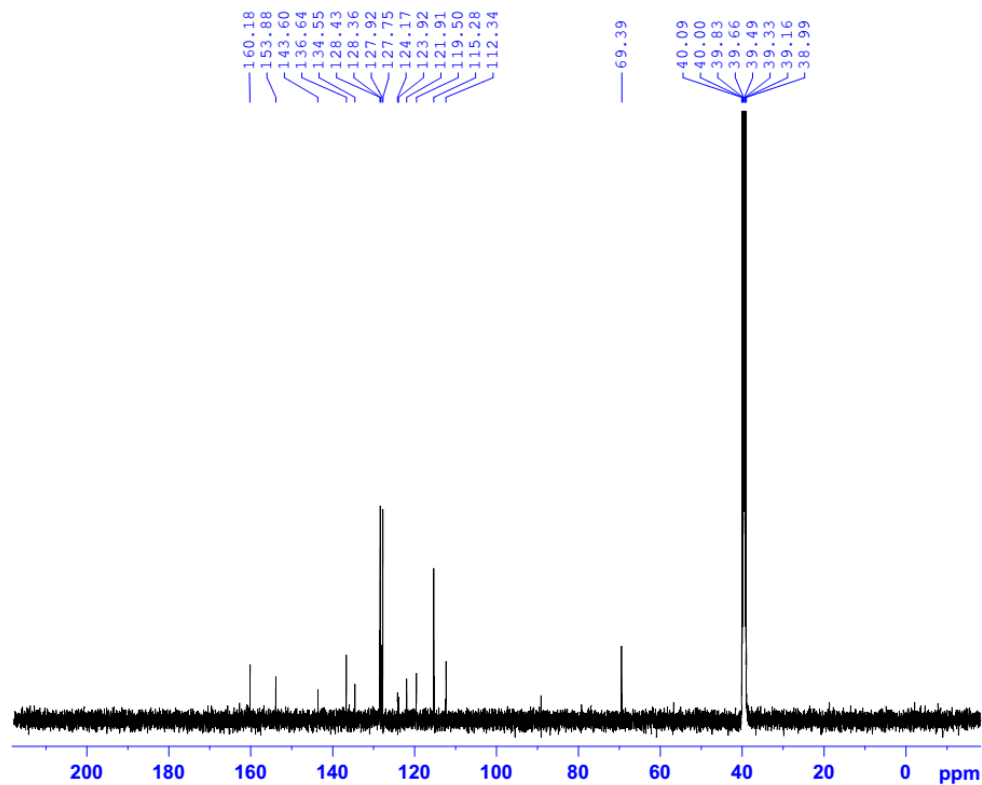
2-(4-Benzyloxy-phenyl)-5,6-dichloro-1H- benzoimidazole (36):

^1H – NMR



^{13}C – NMR

BTBO-DMSO- C^{13}CPD



Current Data Parameters
NAME 110HD_BTBO
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date 20180120
Time 3.26
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 1024
DS 4
SWH 29761.904 Hz
FIDRES 0.454131 Hz
AQ 1.1010048 sec
RG 198.57
DW 16.800 usec
DE 6.50 usec
TE 302.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7879670 MHz
NUC1 ^{13}C
P1 10.00 usec
PLW1 88.00000000 W

===== CHANNEL f2 =====
SFO2 500.2020008 MHz
NUC2 ^1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 22.00000000 W
PLW12 0.34375000 W
PLW13 0.22000000 W

F2 - Processing parameters
SI 32768
SF 125.7754568 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
FC 1.40

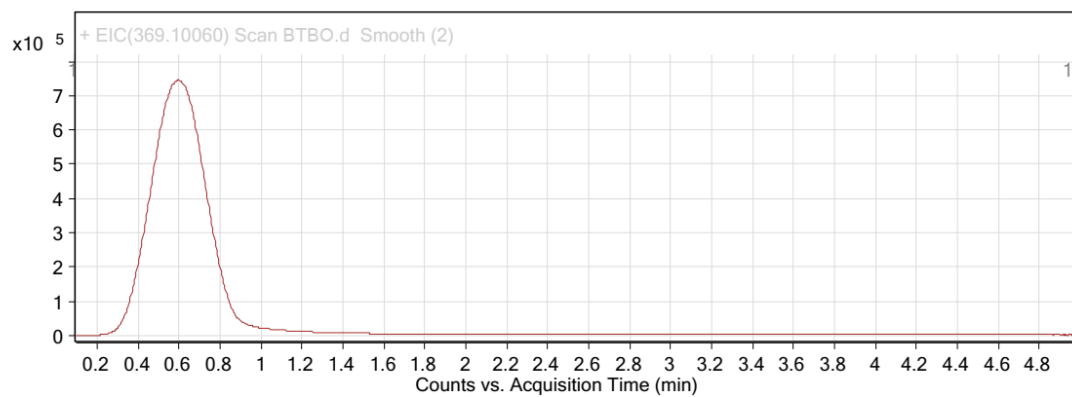
HRMS

Qualitative Analysis Report

Data File	BTBO.d	Sample Name	BTBO
Sample Type	Sample	Position	P1-A1
Instrument Name	Instrument 1	User Name	
Acq Method	All Ion MSMS-Positive-100MeOH.m	Acquired Time	08/02/2018 9:25:41 AM
IRM Calibration Status	Success	DA Method	Pos MS method.m
Comment			
Sample Group			
Stream Name	LC 1	Info.	
		Acquisition SW Version	6200 series TOF/6500 series Q-TOF B.06.01 (B6172 SP1)

User Chromatograms

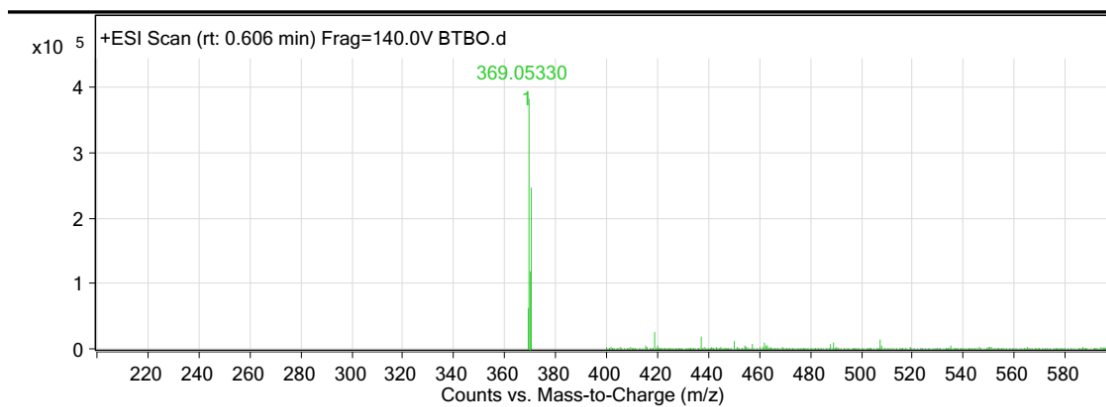
Fragmentor Voltage 140 Collision Energy 0 Ionization Mode ESI



User Spectra

Fragmentor Voltage 140 Collision Energy 0 Ionization Mode ESI

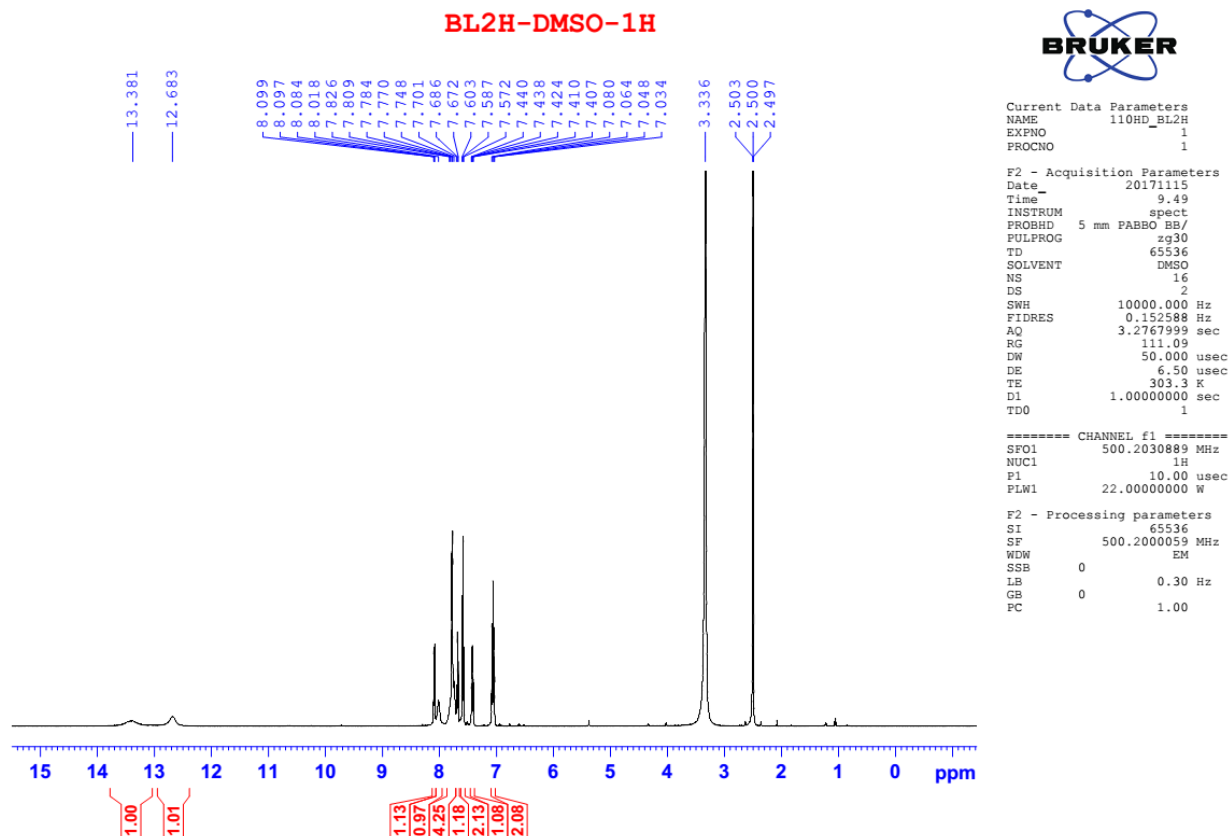
Qualitative Analysis Report



--- End Of Report ---

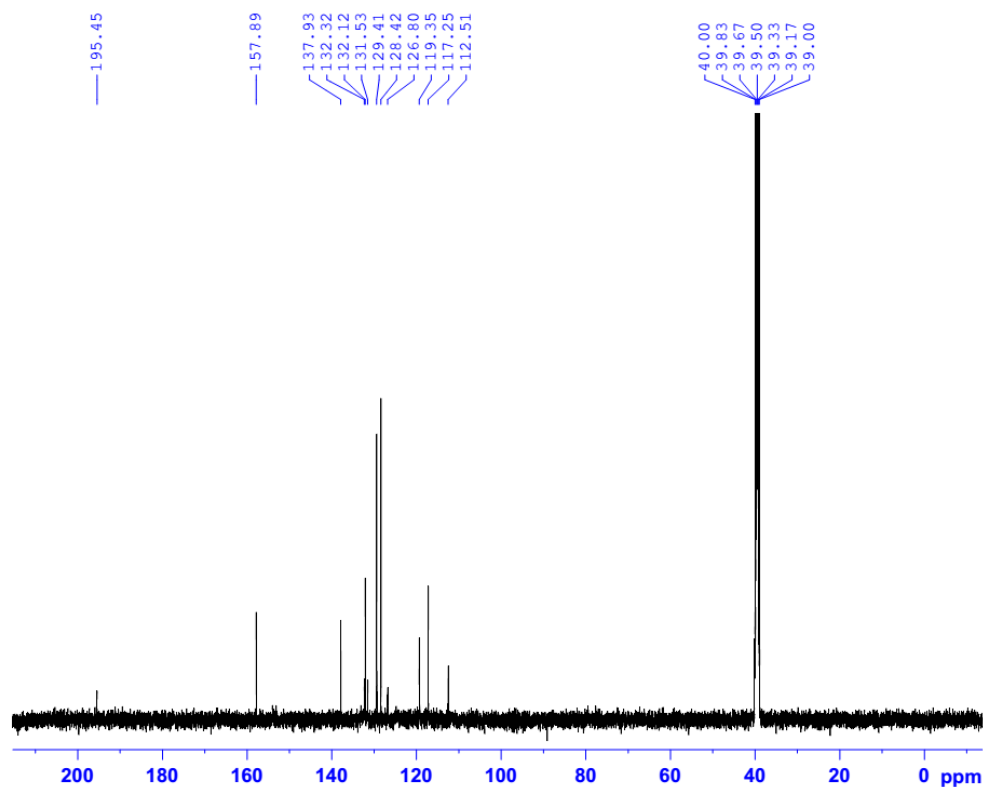
[2-(2-Hydroxy-phenyl)-1H-benzoimidazol-5-yl]-phenyl-methanone (37):

^1H – NMR



^{13}C – NMR

BL2H-DMSO- C_{13}CPD



Current Data Parameters
NAME 110HD_BL2H
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date 20171115
Time 11.49
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 2048
DS 4
SWH 29761.904 Hz
FIDRES 0.454131 Hz
AQ 1.1010048 sec
RG 198.57
DW 16.800 usec
DE 6.50 usec
TE 305.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7879670 MHz
NUC1 ^{13}C
P1 10.00 usec
PLW1 88.00000000 W

===== CHANNEL f2 =====
SFO2 500.2020008 MHz
NUC2 ^1H
CFDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 22.00000000 W
PLW12 0.34375000 W
PLW13 0.22000000 W

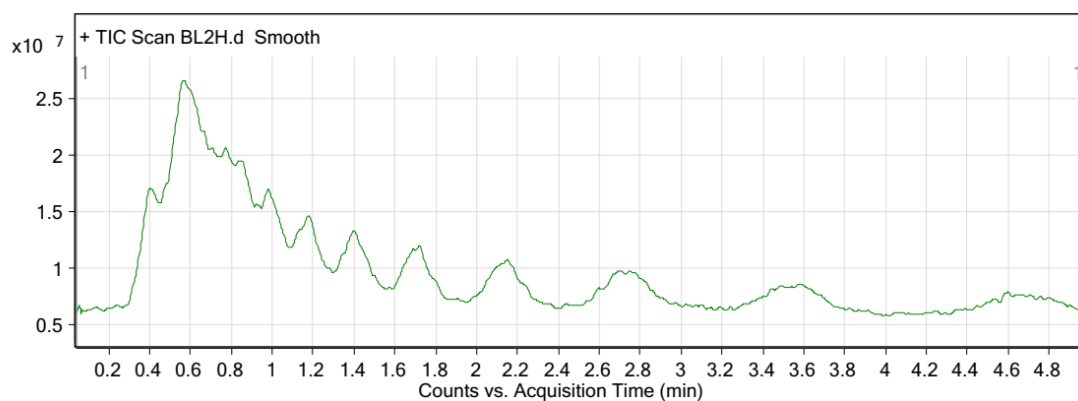
F2 - Processing parameters
SI 32768
SF 125.7754554 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

Qualitative Analysis Report

Data File	BL2H.d	Sample Name	BL2H
Sample Type	Sample	Position	P1-C8
Instrument Name	Instrument 1	User Name	
Acq Method	All Ion MSMS-Positive-100MeOH.m	Acquired Time	25/11/2017 11:48:13 AM
IRM Calibration Status	Success	DA Method	GS ton du.m
Comment			
Sample Group			
Stream Name	LC 1	Info.	
		Acquisition SW Version	6200 series TOF/6500 series Q-TOF B.06.01 (B6172 SP1)

User Chromatograms

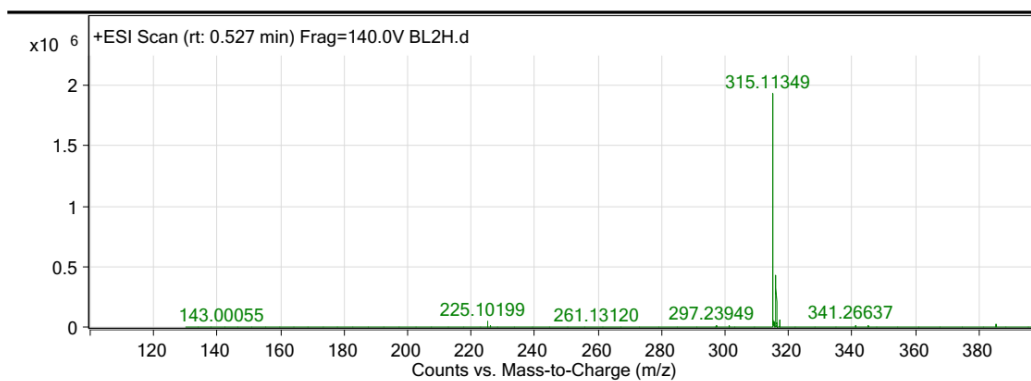
Fragmentor Voltage 140 **Collision Energy** 0 **Ionization Mode** ESI



User Spectra

Fragmentor Voltage 140 **Collision Energy** 0 **Ionization Mode** ESI

Qualitative Analysis Report



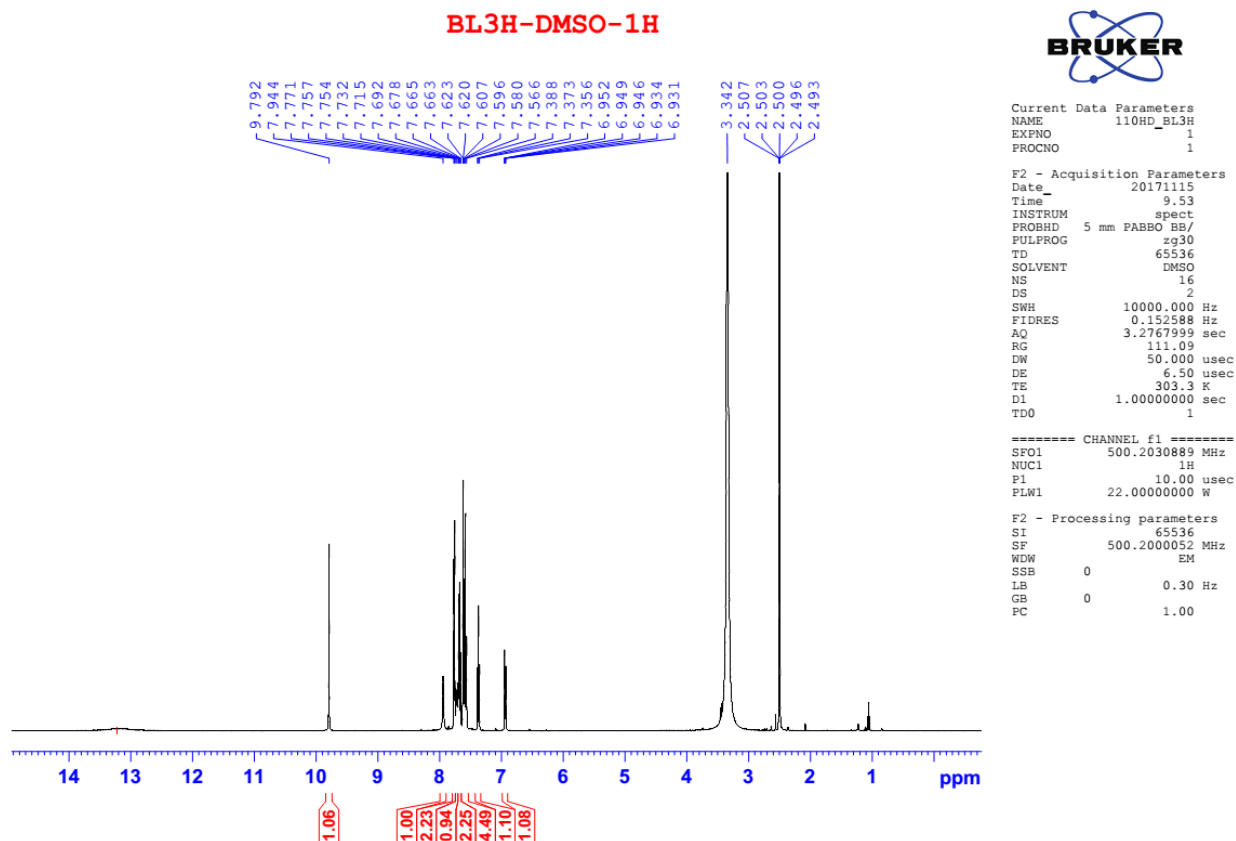
Peak List

m/z	z	Abund
225.10199	1	43673.96
315.11349	1	1945796.14
315.1838	1	155060.81
316.11665	1	425079.72
317.11944	1	54049.19
341.26637	1	18886.38
345.15947	1	14357.27
385.29211	1	21470.3
421.15472	1	54460.97
629.2175	1	27399.69

--- End Of Report ---

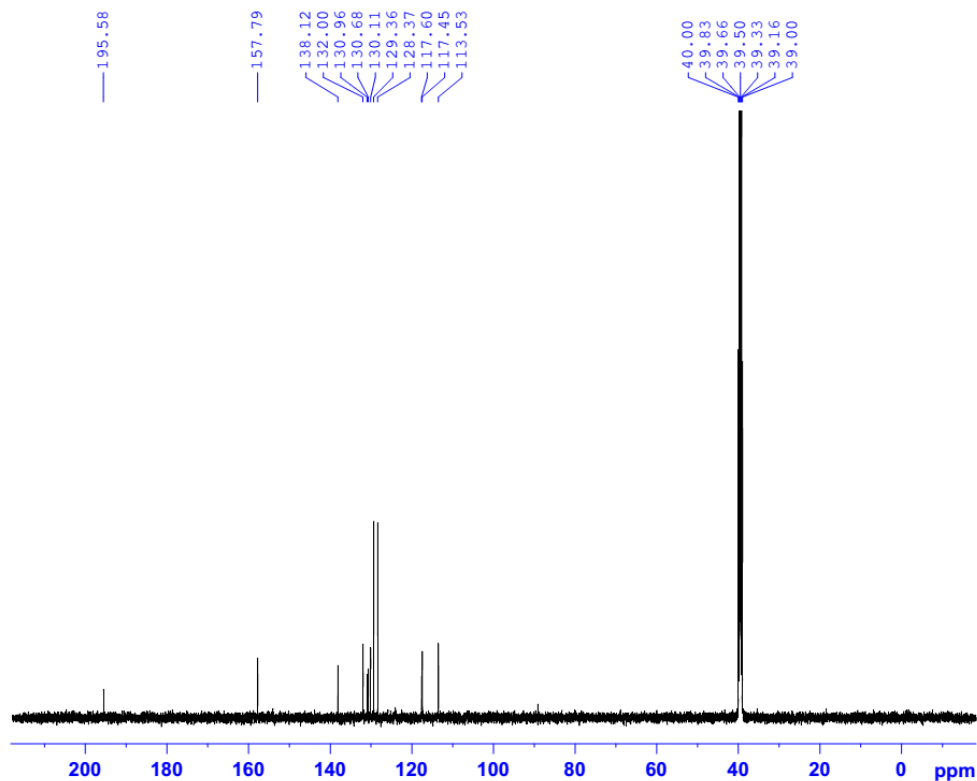
[2-(3-Hydroxy-phenyl)-1H-benzoimidazol-5-yl]-phenyl-methanone (**38**):

^1H – NMR



^{13}C – NMR

BL3H-DMSO-C13CPD



Current Data Parameters
NAME 110HD_BL3H
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20171115
Time 14.16
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 1024
DS 4
SWH 29761.904 Hz
FIDRES 0.454131 Hz
AQ 1.1010048 sec
RG 198.57
DW 16.800 usec
DE 6.50 usec
TE 305.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7879670 MHz
NUC1 13C
P1 10.00 usec
PLW1 88.00000000 W

===== CHANNEL f2 =====
SFO2 500.2020008 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 22.00000000 W
PLW12 0.34375000 W
PLW13 0.22000000 W

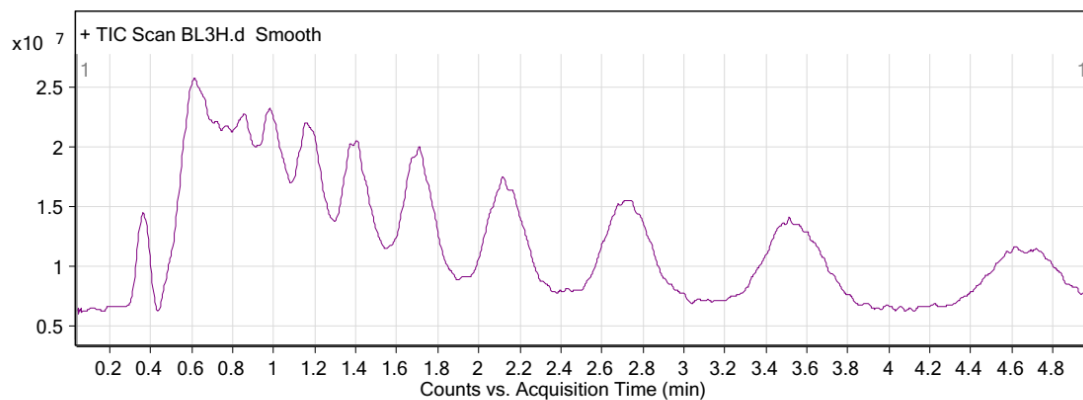
F2 - Processing parameters
SI 32768
SF 125.7754552 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

Qualitative Analysis Report

Data File	BL3H.d	Sample Name	BL3H
Sample Type	Sample	Position	P1-C9
Instrument Name	Instrument 1	User Name	
Acq Method	All Ion MSMS-Positive-100MeOH.m	Acquired Time	25/11/2017 11:53:58 AM
IRM Calibration Status	Success	DA Method	GS ton du.m
Comment			
Sample Group			
Stream Name	LC 1	Info.	
		Acquisition SW Version	6200 series TOF/6500 series Q-TOF B.06.01 (B6172 SP1)

User Chromatograms

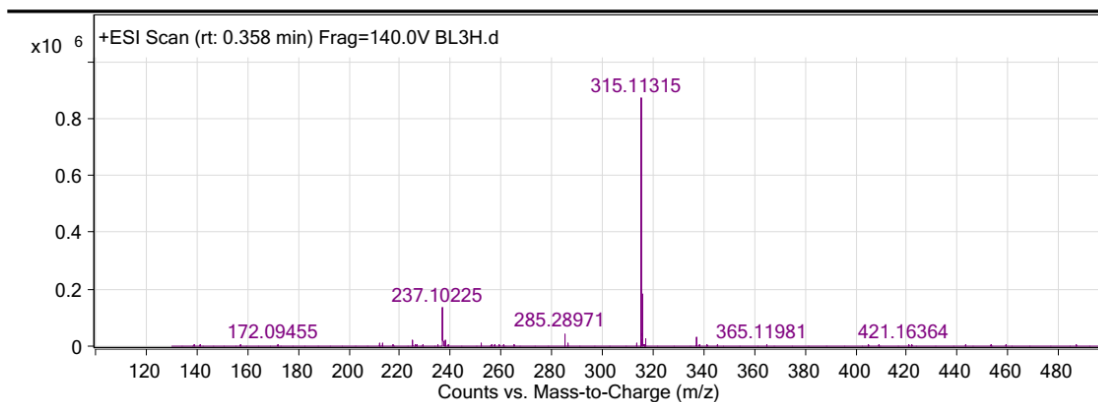
Fragmentor Voltage 140 Collision Energy 0 Ionization Mode ESI



User Spectra

Fragmentor Voltage 140 Collision Energy 0 Ionization Mode ESI

Qualitative Analysis Report



Peak List

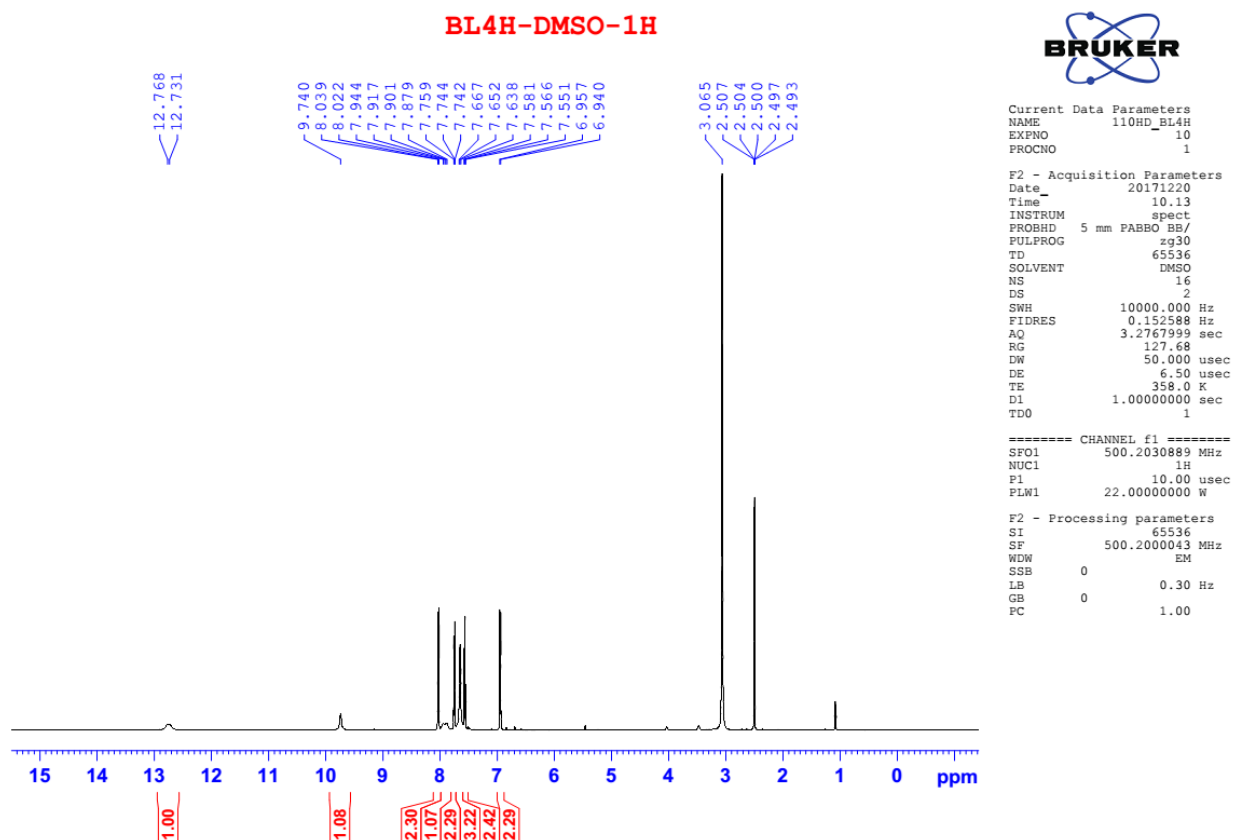
m/z	z	Abund
237.10225	1	136281.41
285.28971	1	47357.44
315.11315	1	882123.01
315.18337	1	65545.56
316.1163	1	184772.19
337.09473	1	35600.84
629.21833	1	103159.31
630.22106	1	42897.26
651.19947	1	40552.41
965.3048	1	47540.15

--- End Of Report ---



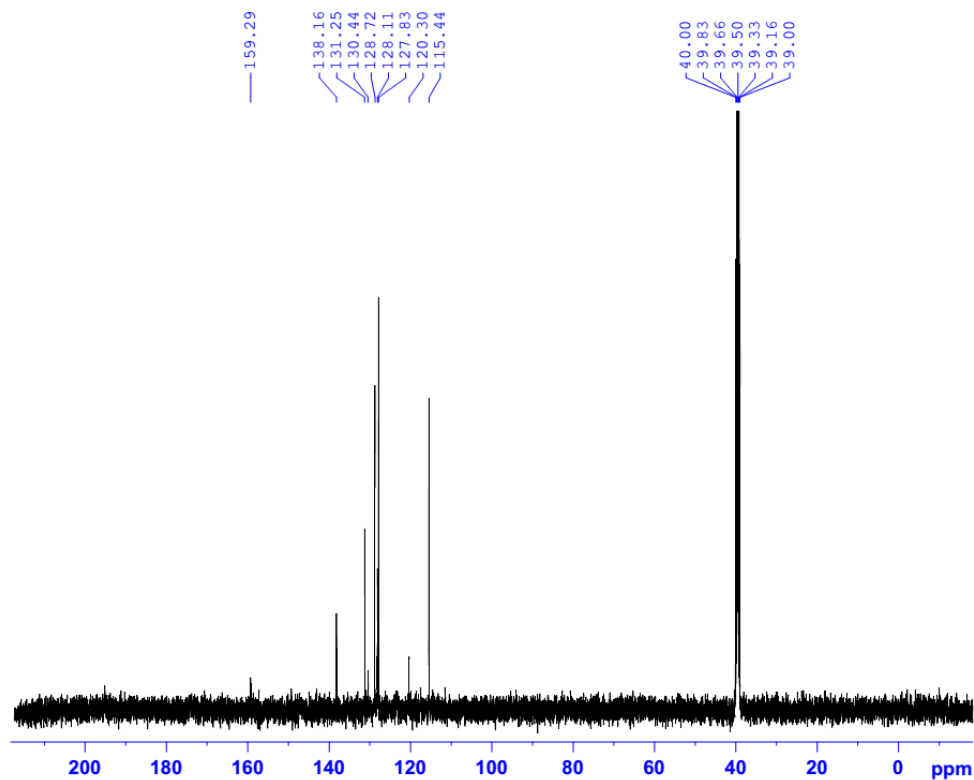
[2-(4-Hydroxy-phenyl)-1H-benzoimidazol-5-yl]-phenyl-methanone (**39**):

^1H – NMR



^{13}C – NMR

BL4H-DMSO-C13CPD



Current Data Parameters
NAME 110HD_BL4H
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20171220
Time 10.42
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 1024
DS 4
SWH 29761.904 Hz
FIDRES 0.454131 Hz
AQ 1.1010048 sec
RG 198.57
DW 16.800 usec
DE 6.50 usec
TE 358.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7879670 MHz
NUC1 ^{13}C
P1 10.00 usec
PLW1 88.00000000 W

===== CHANNEL f2 =====
SFO2 500.2020008 MHz
NUC2 ^1H
CPDPRG2 waltz16
PCPD2 80.00 usec
PLW2 22.00000000 W
PLW12 0.34375000 W
PLW13 0.22000000 W

F2 - Processing parameters
SI 32768
SF 125.7753900 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

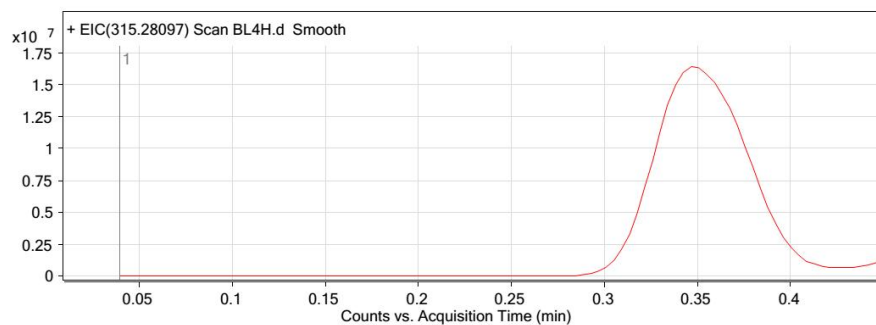
HRMS

Qualitative Analysis Report

Data File	BL4H.d	Sample Name	BL4H
Sample Type	Sample	Position	P1-B2
Instrument Name	Instrument 1	User Name	
Acq Method	All Ion MSMS-Positive-100MeOH.m	Acquired Time	17/01/2018 2:58:29 PM
IRM Calibration Status	Success	DA Method	GS ton du.m
Comment			
Sample Group		Info.	
Stream Name	LC 1	Acquisition SW Version	6200 series TOF/6500 series Q-TOF B.06.01 (B6172 SP1)

User Chromatograms

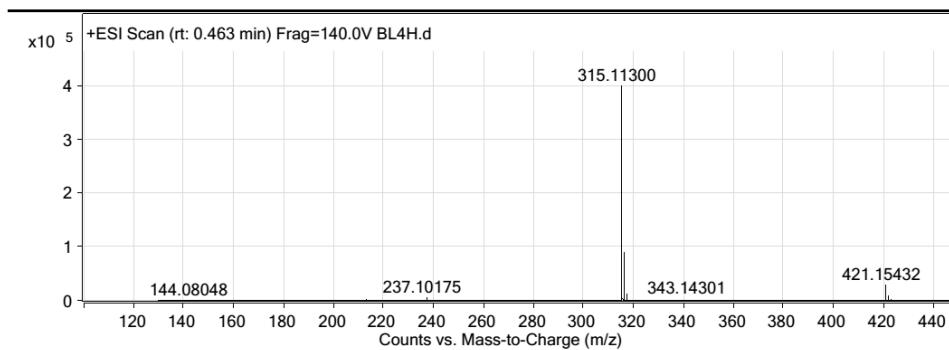
Fragmentor Voltage 140 Collision Energy 0 Ionization Mode ES I



User Spectra

Fragmentor Voltage 140 Collision Energy 0 Ionization Mode ESI

Qualitative Analysis Report



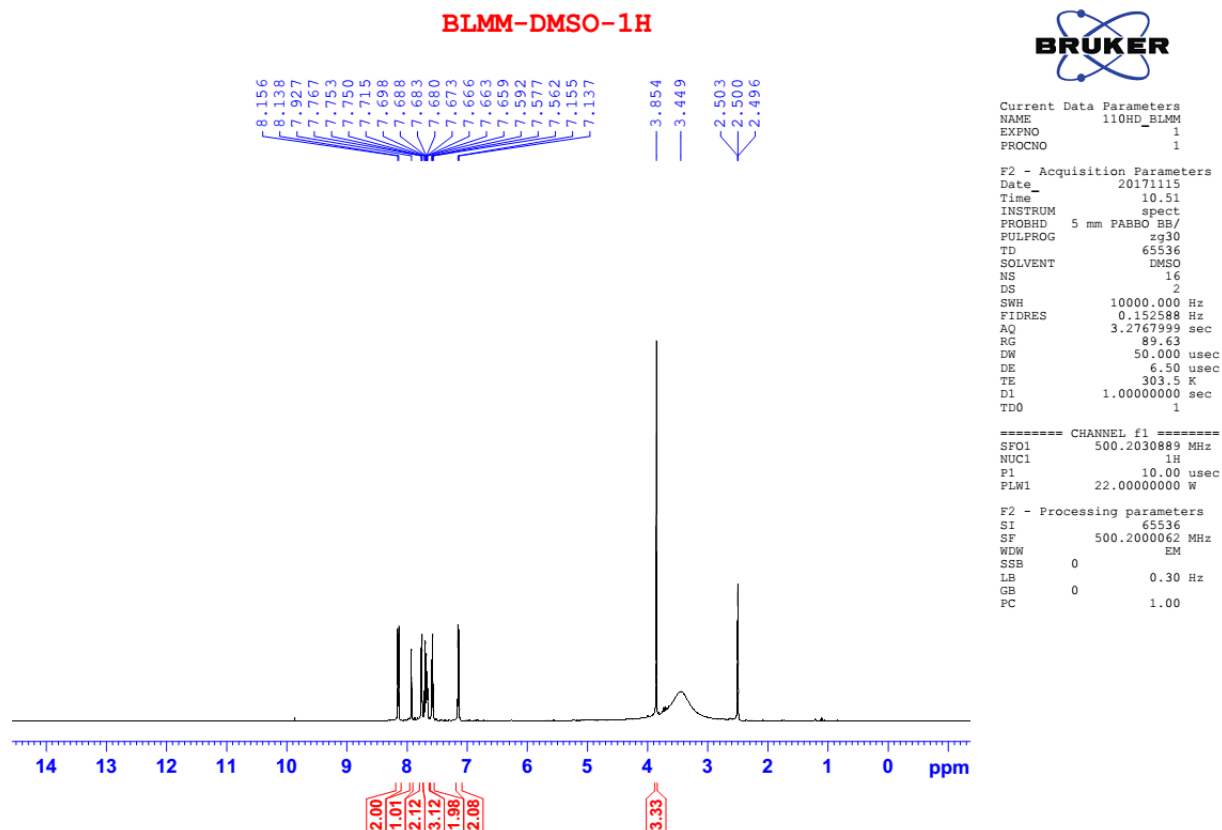
Formula Calculator Element Limits

Element	Min	Max
C	3	60
H	0	120
O	0	30
N	0	30
S	0	5
Cl	0	3

--- End Of Report ---

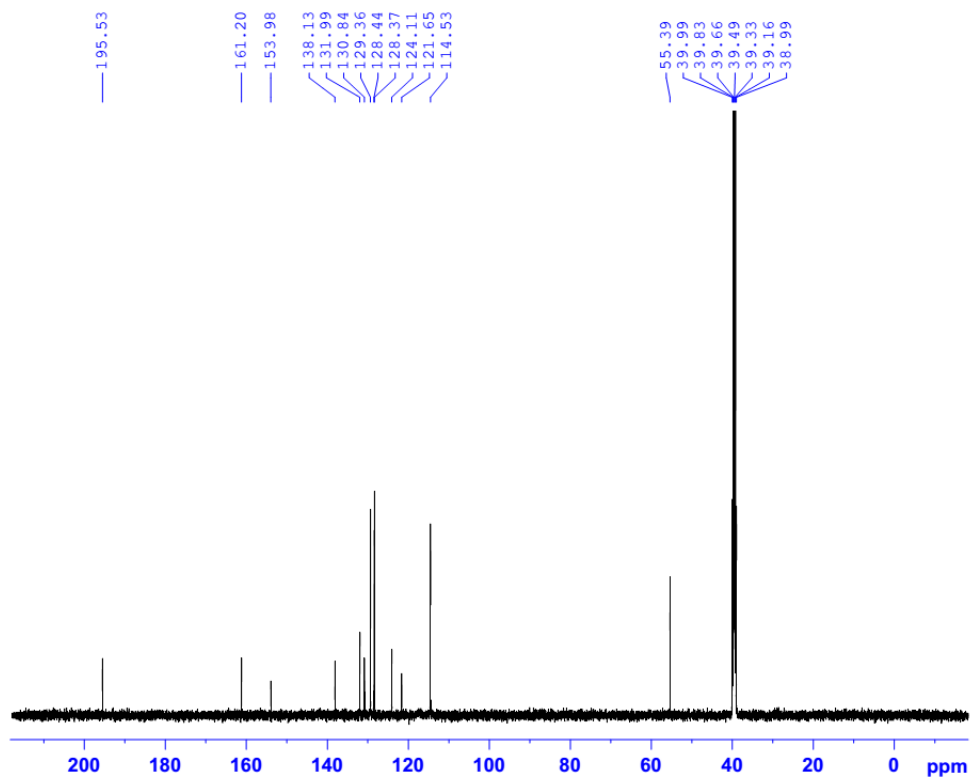
[2-(4-Methoxy-phenyl)-1H-benzoimidazol-5-yl]-phenyl-methanone (**40**):

^1H – NMR



^{13}C – NMR

BLMM-DMSO- C^{13}CPD



Current Data Parameters
NAME 110HD BLMM
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20171115
Time 11.09
INSTRUM spect
PROBHD 5 mm PABBO BB/
FULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 512
DS 4
SWH 29761.904 Hz
FIDRES 0.454131 Hz
AQ 1.1010048 sec
RG 198.57
DW 16.800 usec
DE 6.50 usec
TE 304.5 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7879670 MHz
NUC1 ^{13}C
P1 10.00 usec
PLW1 88.00000000 W

===== CHANNEL f2 =====
SFO2 500.2020008 MHz
NUC2 ^1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 22.00000000 W
PLW12 0.34375000 W
PLW13 0.22000000 W

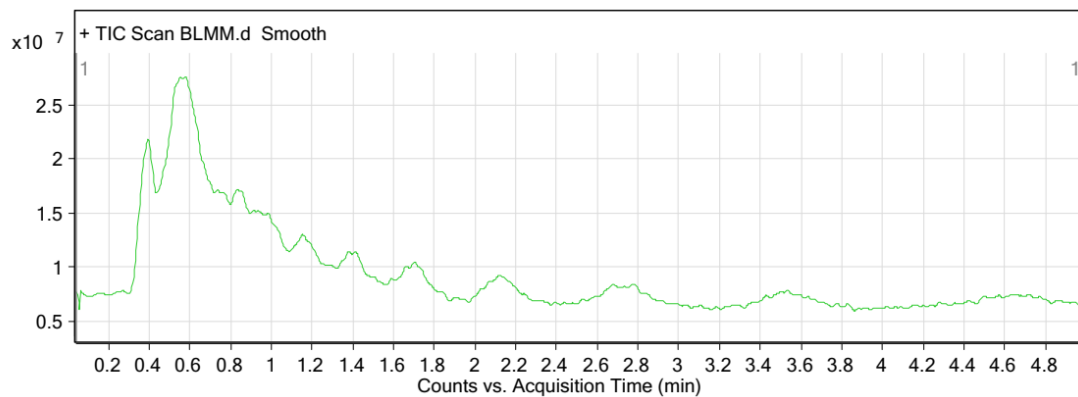
F2 - Processing parameters
SI 32768
SF 125.7753900 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

Qualitative Analysis Report

Data File	BLMM.d	Sample Name	BLMM
Sample Type	Sample	Position	P1-D2
Instrument Name	Instrument 1	User Name	
Acq Method	All Ion MSMS-Positive-100MeOH.m	Acquired Time	25/11/2017 12:05:26 PM
IRM Calibration Status	Success	DA Method	GS ton du.m
Comment			
Sample Group			
Stream Name	LC 1	Info.	
		Acquisition SW Version	6200 series TOF/6500 series Q-TOF B.06.01 (B6172 SP1)

User Chromatograms

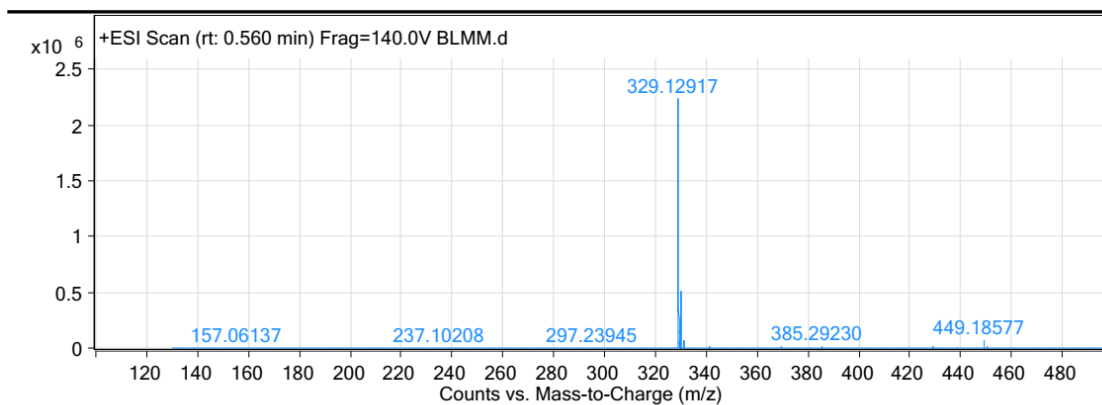
Fragmentor Voltage 140 Collision Energy 0 Ionization Mode ESI



User Spectra

Fragmentor Voltage 140 Collision Energy 0 Ionization Mode ESI

Qualitative Analysis Report



Peak List

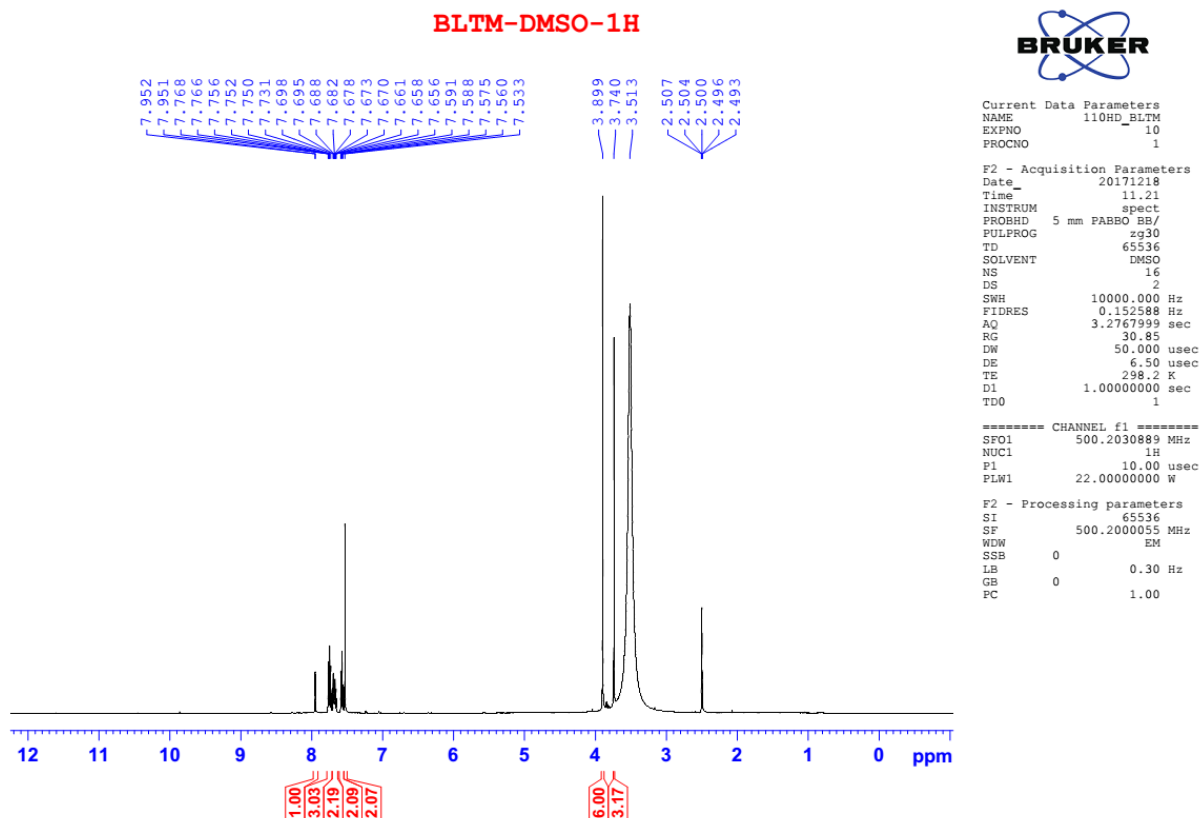
m/z	z	Abund
329.12917	1	2268529.31
330.13228	1	515373.98
331.1349	1	65132.97
341.26601	1	21683.95
449.18577	1	66259.56
450.18866	1	20028.15
657.25115	1	153797.56
658.25276	1	78649.23
719.40491	1	43916.58
720.40898	1	22488.36

--- End Of Report ---



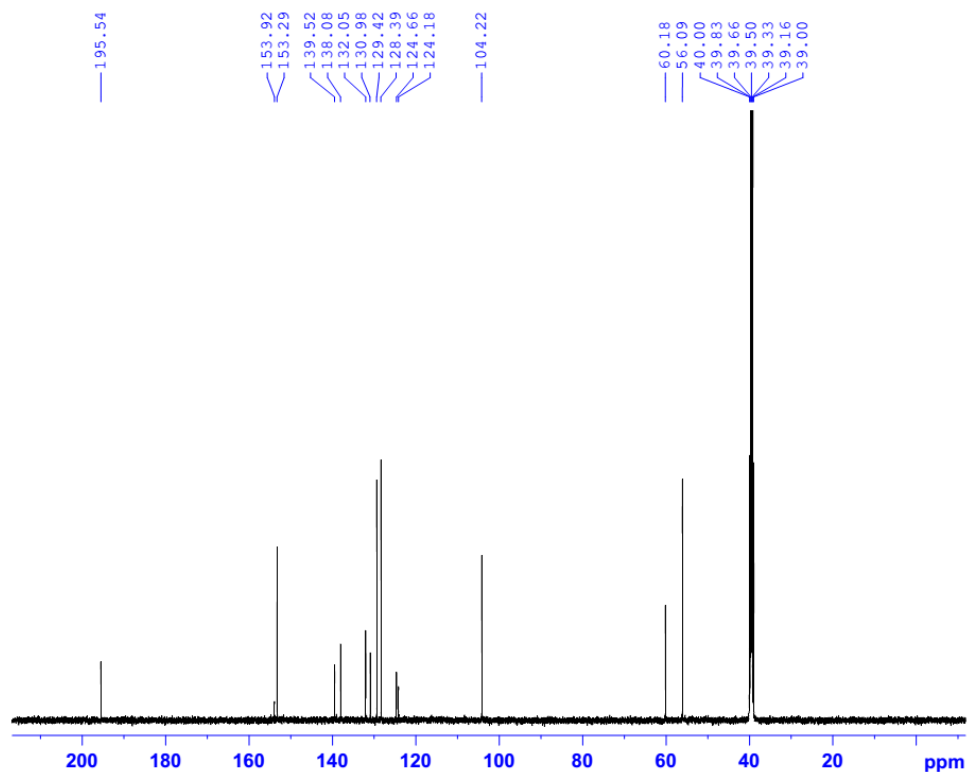
Phenyl-[2-(3,4,5-trimethoxy-phenyl)-1H-benzimidazol-5-yl]-methanone (41):

^1H – NMR



^{13}C – NMR

BLTM-DMSO- C13CPD



Current Data Parameters
NAME 110HD_BLTM
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20171117
Time 8.52
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 1024
DS 4
SWH 29761.904 Hz
FIDRES 0.454131 Hz
AQ 1.1010048 sec
RG 198.57
DW 16.800 usec
DE 6.50 usec
TE 304.5 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7879670 MHz
NUC1 ^{13}C
P1 10.00 usec
PLW1 88.00000000 W

===== CHANNEL f2 =====
SFO2 500.2020008 MHz
NUC2 ^1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 22.00000000 W
PLW12 0.34375000 W
PLW13 0.22000000 W

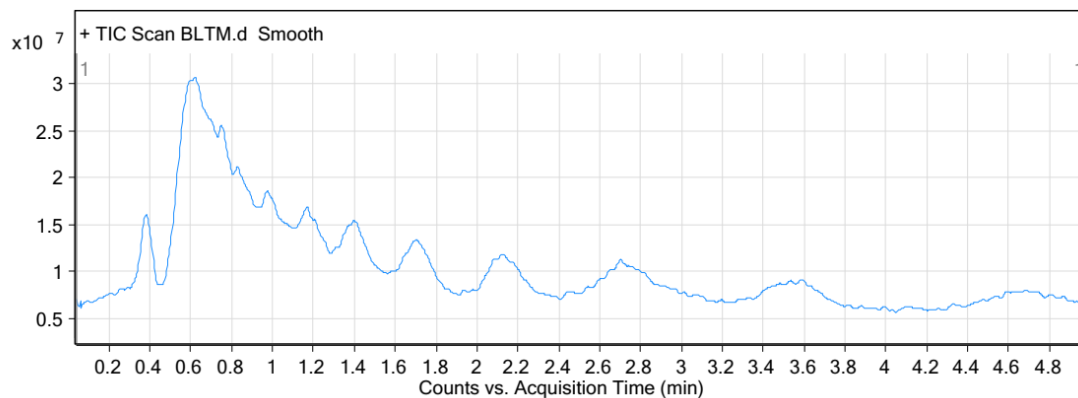
F2 - Processing parameters
SI 32768
SF 125.7754519 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

Qualitative Analysis Report

Data File	BLTM.d	Sample Name	BLTM
Sample Type	Sample	Position	P1-D1
Instrument Name	Instrument 1	User Name	
Acq Method	All Ion MSMS-Positive-100MeOH.m	Acquired Time	25/11/2017 11:59:42 AM
IRM Calibration Status	Success	DA Method	GS ton du.m
Comment			
Sample Group			
Stream Name	LC 1	Info.	
		Acquisition SW Version	6200 series TOF/6500 series Q-TOF B.06.01 (B6172 SP1)

User Chromatograms

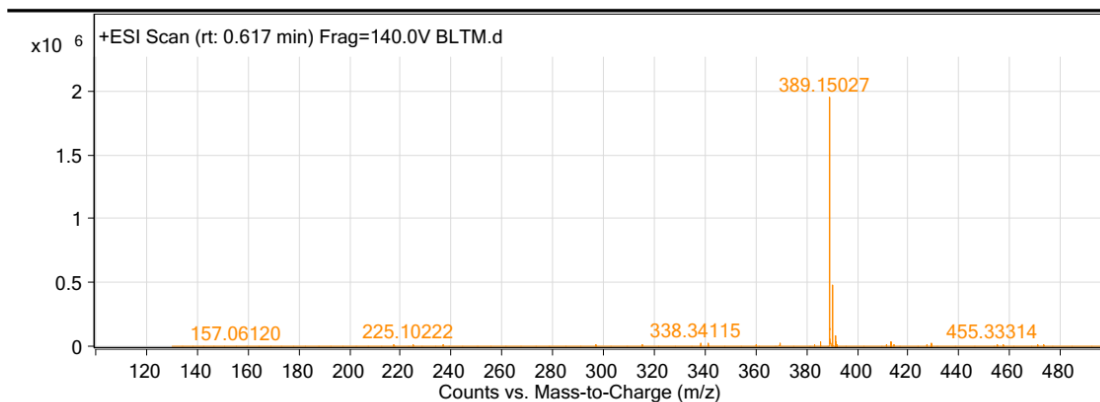
Fragmentor Voltage 140 Collision Energy 0 Ionization Mode ESI



User Spectra

Fragmentor Voltage 140 Collision Energy 0 Ionization Mode ESI

Qualitative Analysis Report



Peak List

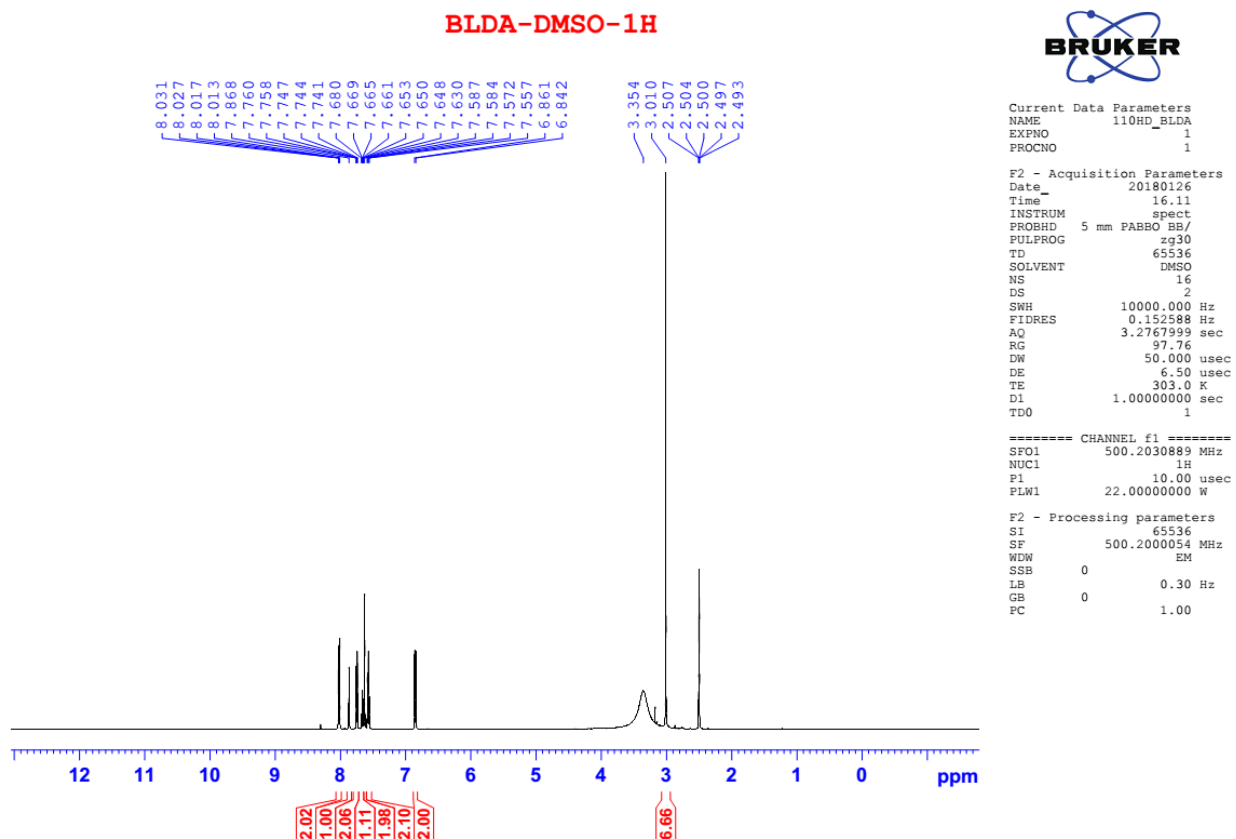
m/z	z	Abund
385.2914	1	33517.66
389.15027	1	1999519.47
390.15342	1	490433.2
391.15564	1	78621.57
777.29319	1	218874.84
778.29559	1	126098.91
779.42707	1	143775.93
780.42979	1	74112.81
1165.43339	1	64534.87
1166.43702	1	48734.36

--- End Of Report ---



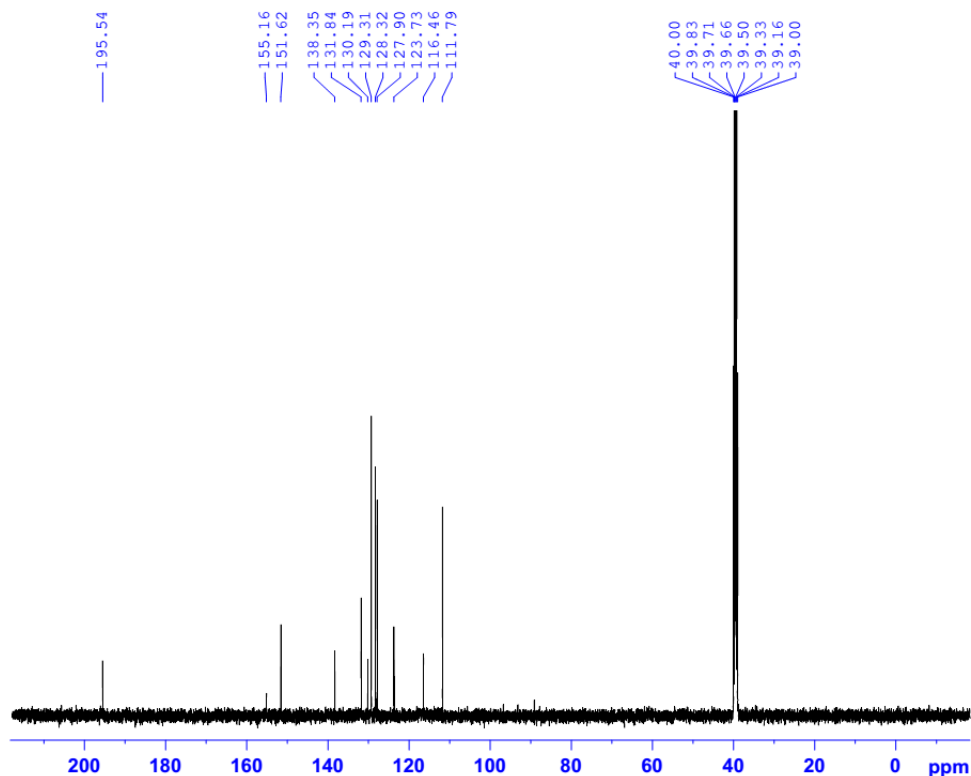
[2-(4-Dimethylamino-phenyl)-1*H*-benzoimidazol-5-yl](phenyl)methanone (**42**):

¹H – NMR



^{13}C – NMR

BLDA-DMSO-C13CPD



Current Data Parameters
NAME 110HD_BLDA
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date 20180126
Time 18.02
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 1024
DS 4
SWH 29761.904 Hz
FIDRES 0.454131 Hz
AQ 1.1010048 sec
RG 198.57
DW 16.800 usec
DE 6.50 usec
TE 303.2 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1

===== CHANNEL f1 =====
SFO1 125.7879670 MHz
NUC1 ^{13}C
P1 10.00 usec
PLW1 88.00000000 W

===== CHANNEL f2 =====
SFO2 500.2020008 MHz
NUC2 ^1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 22.00000000 W
PLW12 0.34375000 W
PLW13 0.22000000 W

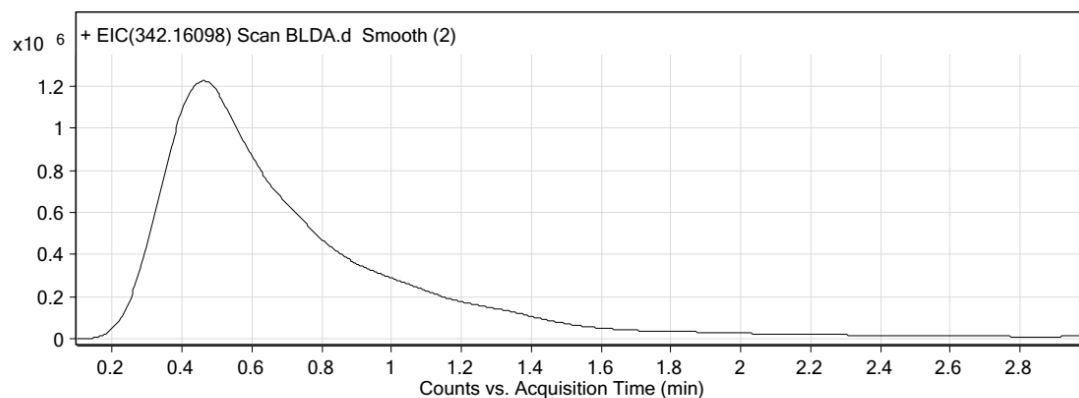
F2 - Processing parameters
SI 32768
SF 125.7753900 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
FC 1.40

Qualitative Analysis Report

Data File	BLDA.d	Sample Name	BLDA
Sample Type	Sample	Position	P1-B1
Instrument Name	Instrument 1	User Name	
Acq Method	All Ion MSMS-Positive-100MeOH.m	Acquired Time	20/05/2018 6:11:38 PM
IRM Calibration Status	Success	DA Method	default.m
Comment			
Sample Group			
Stream Name	LC 1	Info.	
		Acquisition SW Version	6200 series TOF/6500 series Q-TOF B.06.01 (B6172 SP1)

User Chromatograms

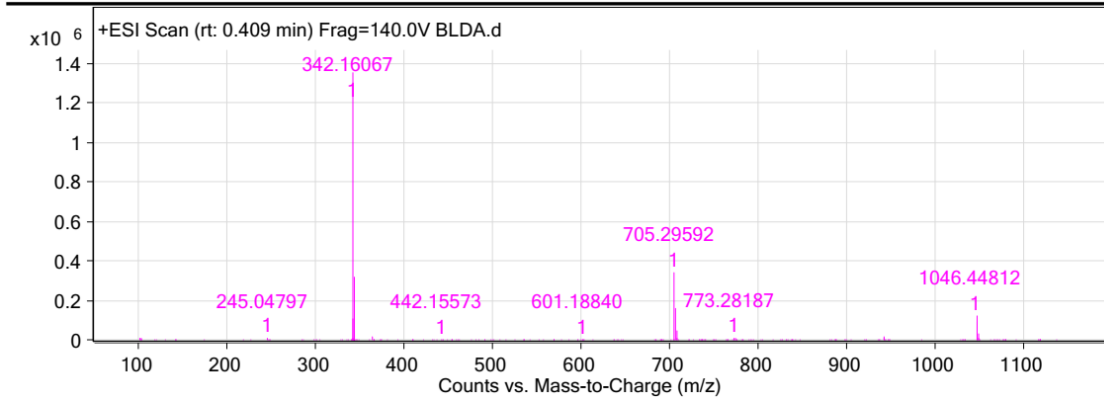
Fragmentor Voltage 140 Collision Energy 0 Ionization Mode ESI



User Spectra

Fragmentor Voltage 140 Collision Energy 0 Ionization Mode ESI

Qualitative Analysis Report



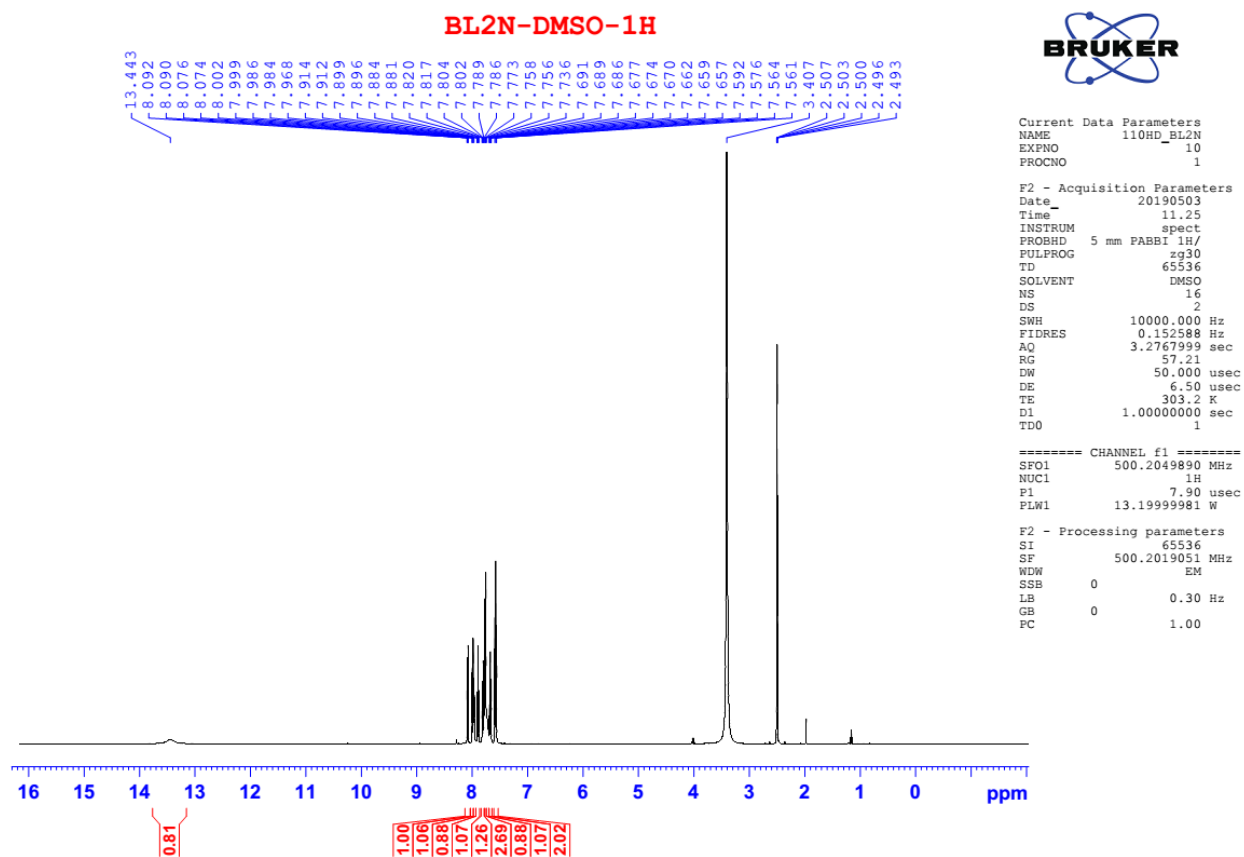
Peak List

m/z	z	Abund
342.16067	1	1348271.75
342.23506	1	106395.44
343.16415	1	317660.97
344.16648	1	43093.84
705.29592	1	342451.22
706.2995	1	162553.94
707.30081	1	43087.26
1046.44812	1	118882.19
1047.45103	1	91199.11
1048.4537	1	33248.23

--- End Of Report ---

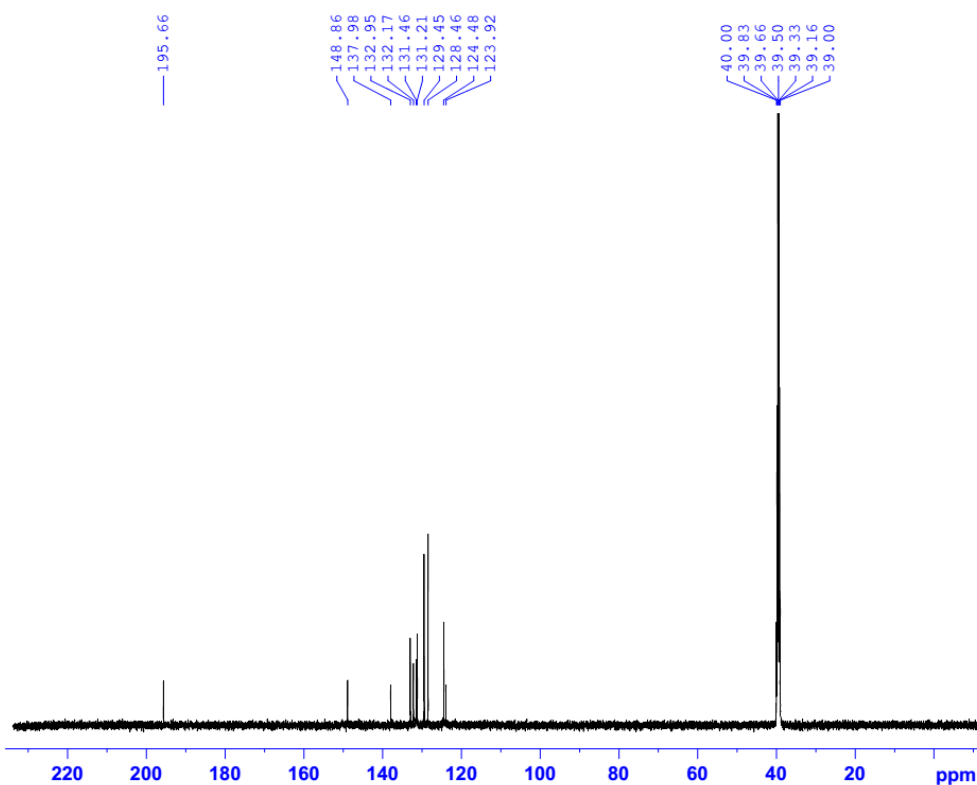
[2-(2-Nitrophenyl)-1H-benzoimidazol-5-yl](phenyl)methanone (**43**):

¹H – NMR



^{13}C – NMR

BL2N-DMSO-C13CPD



Current Data Parameters
NAME 110HD BL2N
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190503
Time_ 17.48
INSTRUM spect
PROBHD 5 mm PABBI 1H/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 512
DS 4
SWH 31250.000 Hz
FIDRES 0.476837 Hz
AQ 1.0485760 sec
RG 198.57
DW 16.000 usec
DE 6.50 usec
TE 307.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7897032 MHz
NUC1 13C
P1 15.40 usec
PLW1 81.00000000 W

===== CHANNEL f2 =====
SFO2 500.2039008 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 13.19999981 W
PLW12 0.12872000 W
PLW13 0.08238100 W

F2 - Processing parameters
SI 32768
SF 125.7759268 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

HRMS

Display Report

Analysis Info

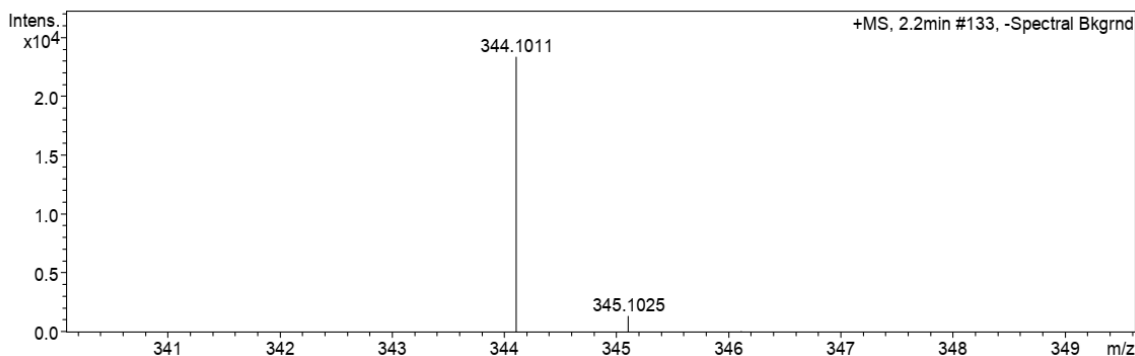
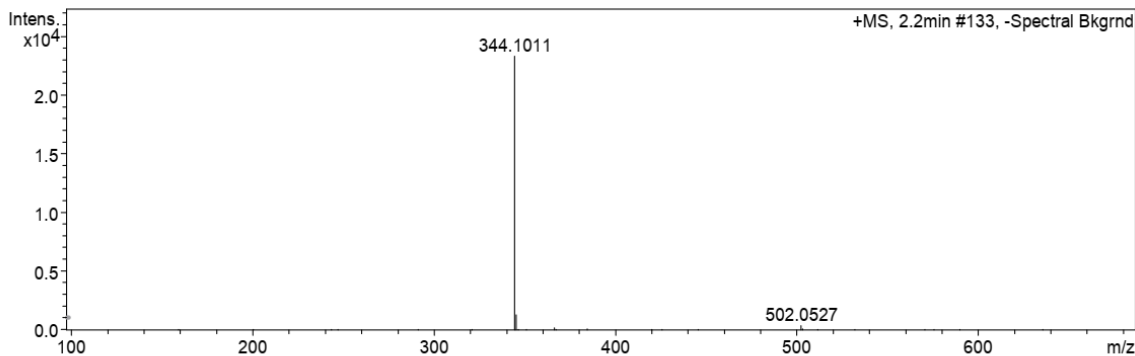
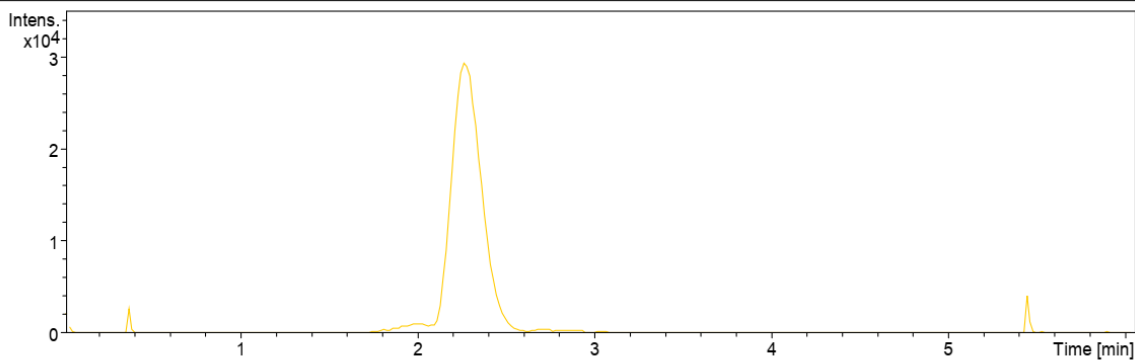
Analysis Name D:\Data2019\thang 05BC2N_2-D,1_01_1730.d
 Method protein my mass tb.m
 Sample Name BC2N
 Comment

Acquisition Date 6/20/2019 10:40:27 PM

Operator ANH MAI
 Instrument micrOTOF-Q 10187

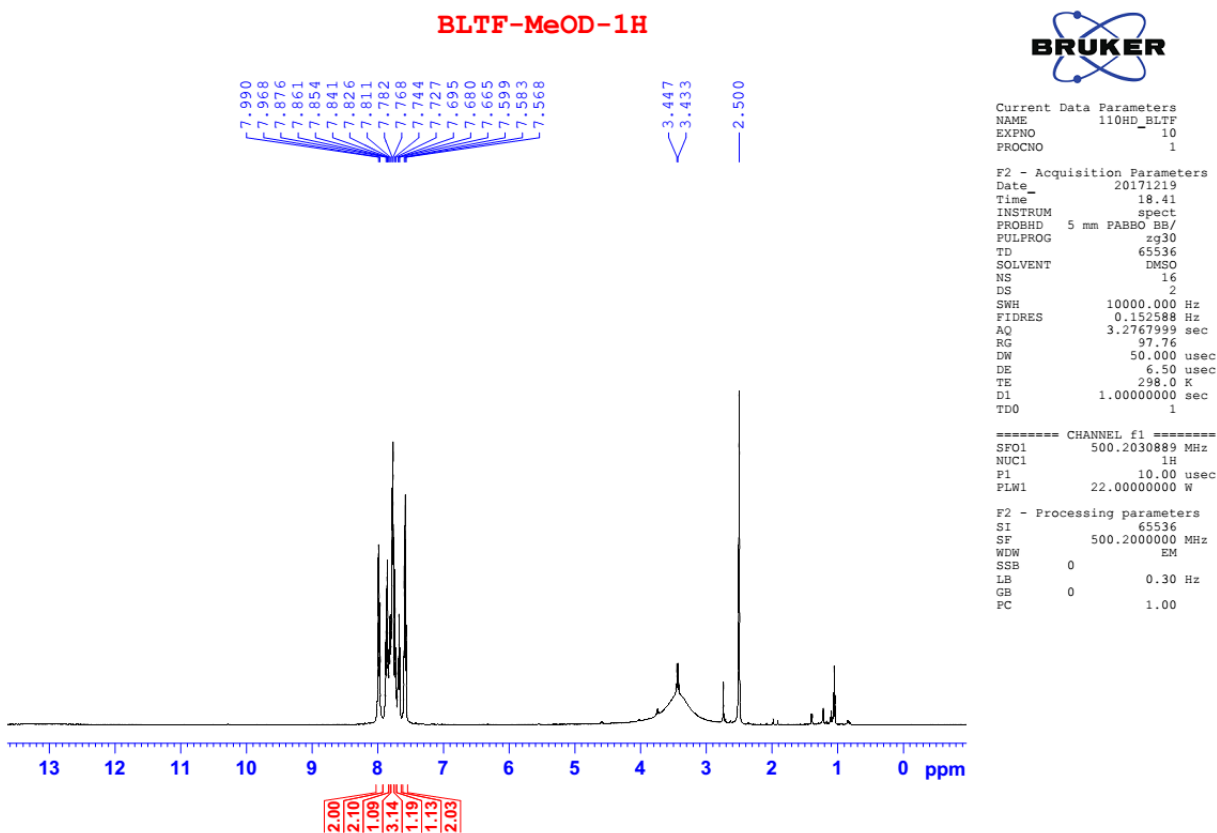
Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Not active	Set Capillary	4500 V	Set Dry Heater	200 °C
Scan Begin	100 m/z	Set End Plate Offset	-500 V	Set Dry Gas	6.5 l/min
Scan End	1000 m/z	Set Collision Cell RF	250.0 Vpp	Set Divert Valve	Source



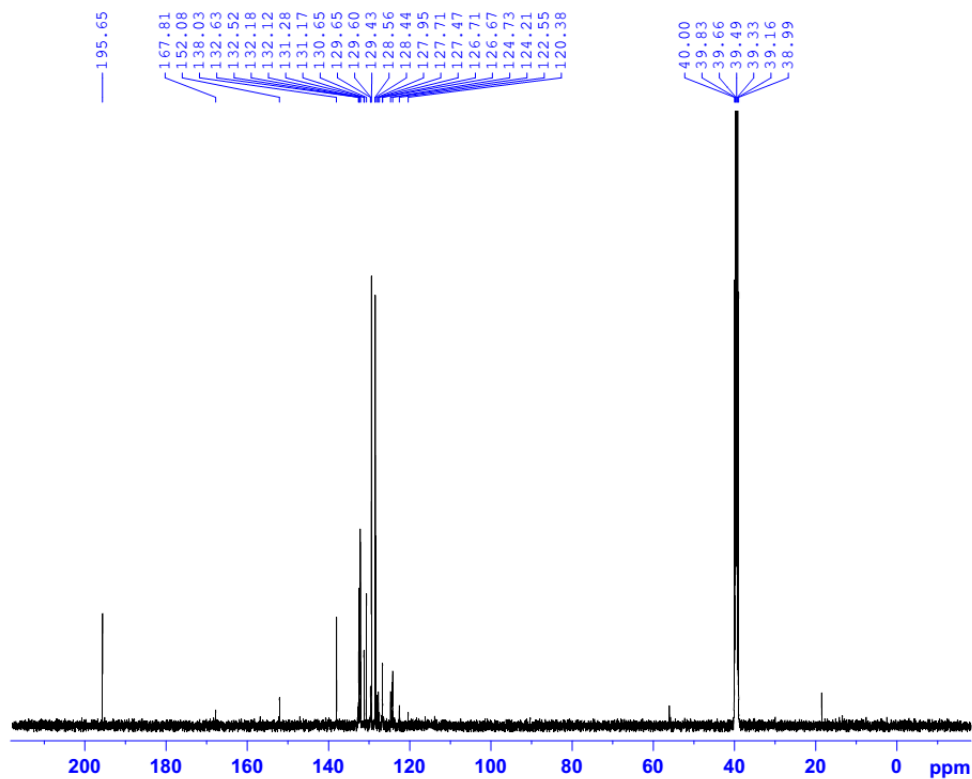
Phenyl(2-(2-(trifluoromethyl)phenyl)-1H-benzo[d]imidazol-5-yl)methanone (**44**):

^1H – NMR



^{13}C – NMR

BLTF-MeOD-C13CPD



Current Data Parameters
NAME 110HD_BLTF
EXPNO 3
PROCNO 1

F2 - Acquisition Parameters
Date_ 20171219
Time 19.50
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 1024
DS 4
SWH 29761.904 Hz
FIDRES 0.454131 Hz
AQ 1.1010048 sec
RG 198.57
DW 16.800 usec
DE 6.50 usec
TE 299.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7879670 MHz
NUC1 13C
P1 10.00 usec
PLW1 88.00000000 W

===== CHANNEL f2 =====
SFO2 500.2020008 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 22.00000000 W
PLW12 0.34375000 W
PLW13 0.22000000 W

F2 - Processing parameters
SI 32768
SF 125.7753900 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

HRMS

Display Report

Analysis Info

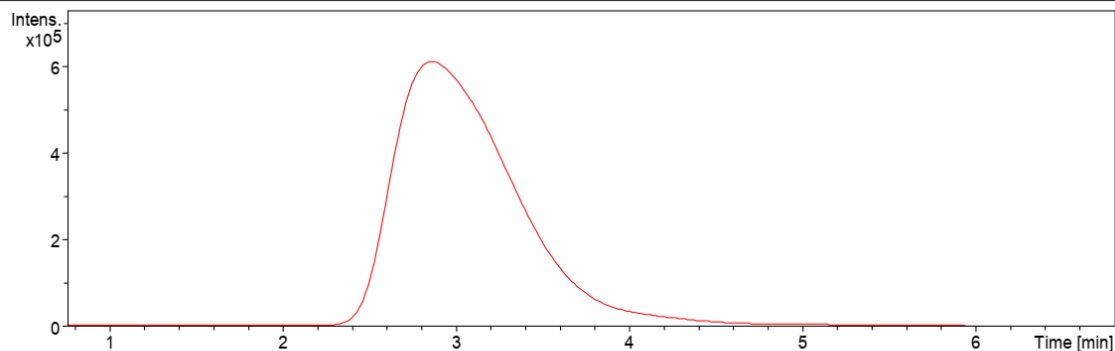
Analysis Name D:\Data\2019\thang 05\13-05\BLTF_1-B,5_01_1349.d
Method protein my mass tb.m
Sample Name BLTF
Comment

Acquisition Date 4/19/2019 4:17:07 PM

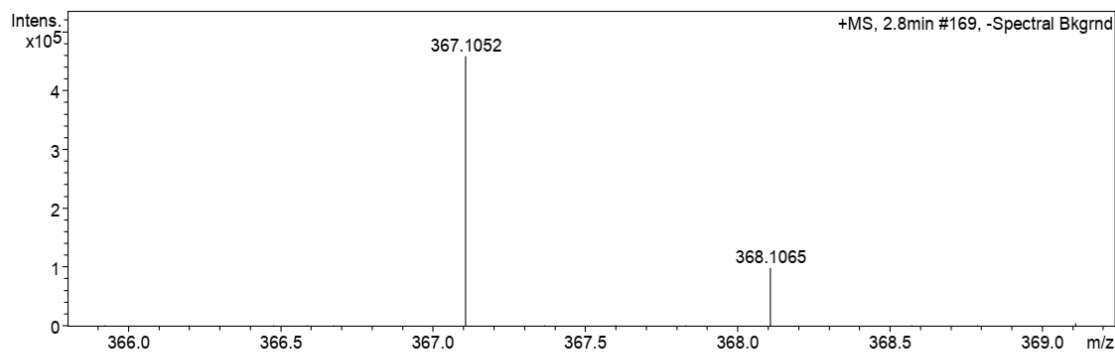
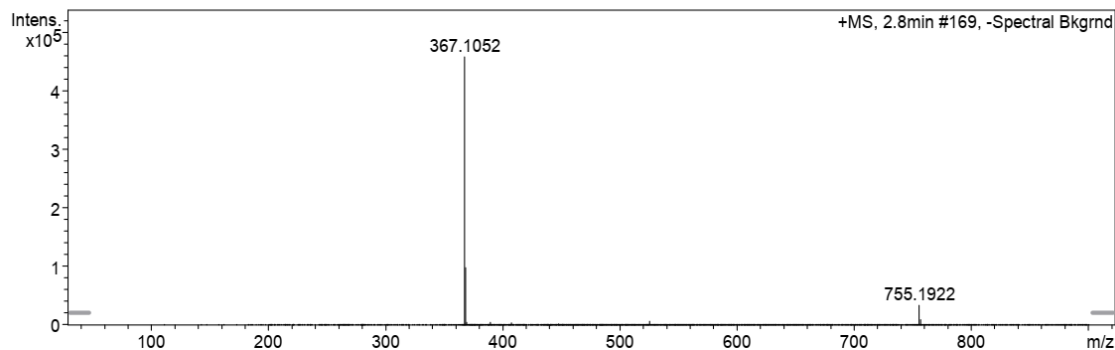
Operator ANH MAI
Instrument micrOTOF-Q 10187

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	1.2 Bar
Focus	Not active	Set Capillary	4500 V	Set Dry Heater	200 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	8.0 l/min
Scan End	900 m/z	Set Collision Cell RF	300.0 Vpp	Set Divert Valve	Source

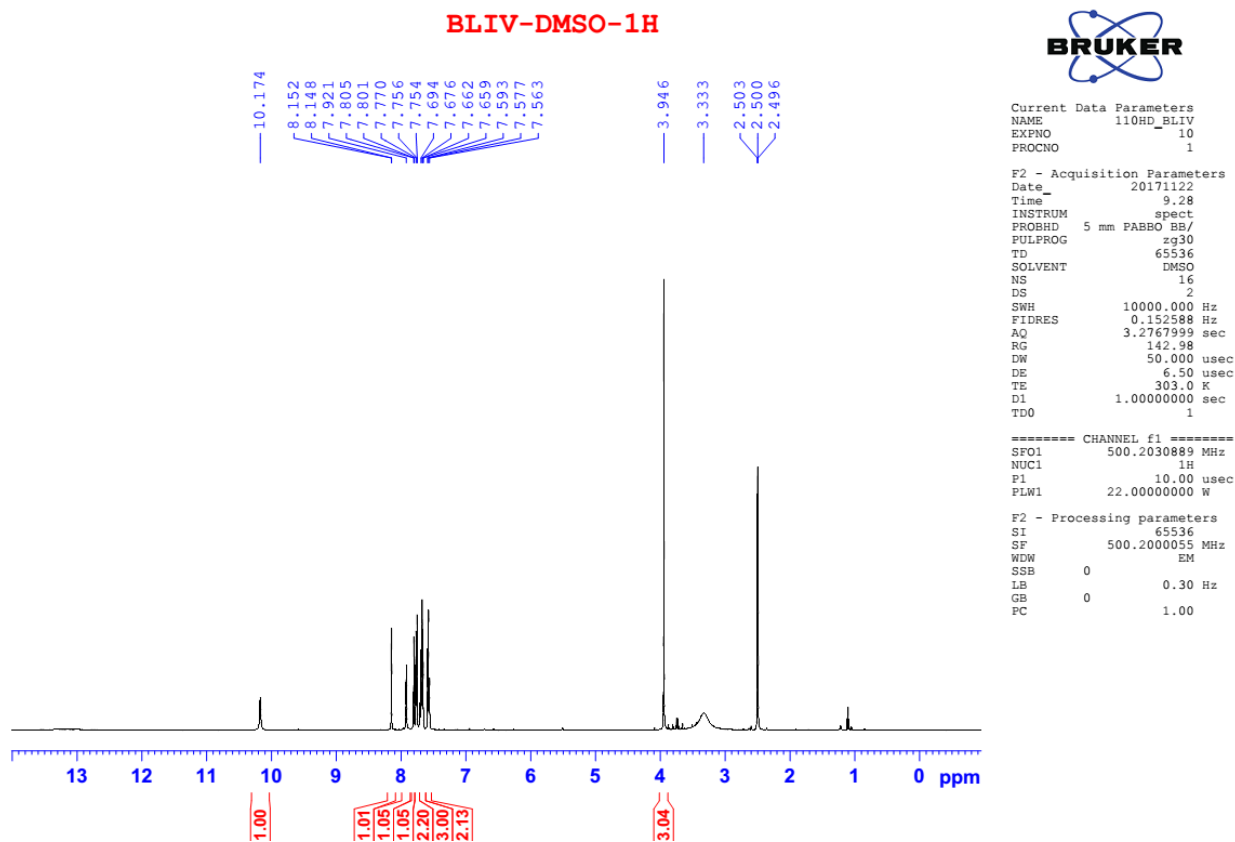


— TIC +All MS, -Spectral Bkgrnd, Smoothed (4.01,2,GA)



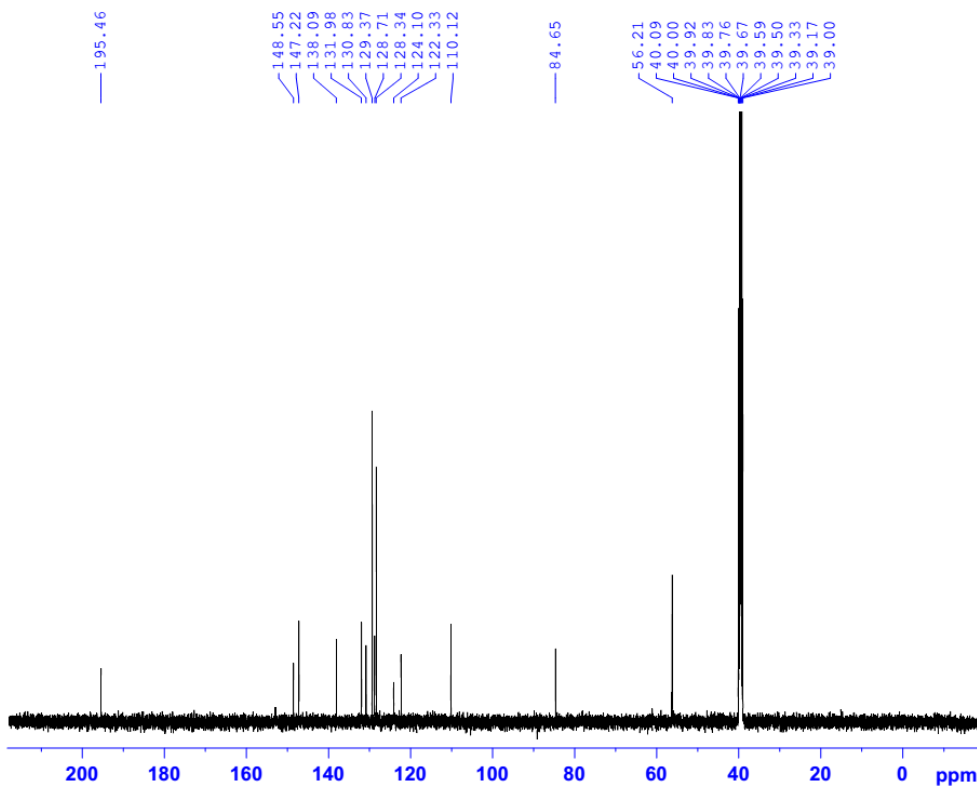
(2-(4-Hydroxy-3-iodo-5-methoxyphenyl)-1*H*-benzimidazol-5-yl)(phenyl)methanone
(45):

¹H – NMR



^{13}C – NMR

BLIV-DMSO-C13CPD



Current Data Parameters
NAME 110HD_BLIV
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20171122
Time 9.34
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 512
DS 4
SWH 29761.904 Hz
FIDRES 0.454131 Hz
AQ 1.1010048 sec
RG 198.57
DW 16.800 usec
DE 6.50 usec
TE 303.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7879670 MHz
NUC1 13C
P1 10.00 usec
PLW1 88.00000000 W

===== CHANNEL f2 =====
SFO2 500.2020008 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 22.00000000 W
PLW12 0.34375000 W
PLW13 0.22000000 W

F2 - Processing parameters
SI 32768
SF 125.7753900 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

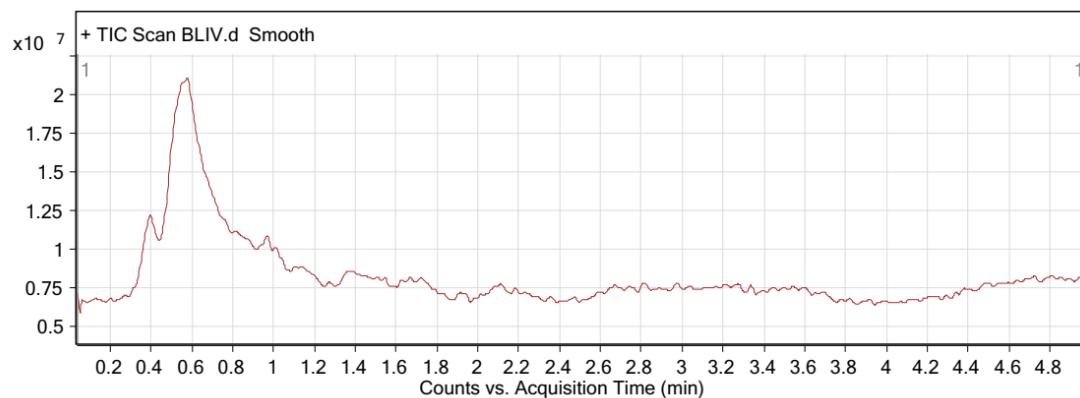
HRMS

Qualitative Analysis Report

Data File	BLIV.d	Sample Name	BLIV
Sample Type	Sample	Position	P1-D4
Instrument Name	Instrument 1	User Name	
Acq Method	All Ion MSMS-Positive-100MeOH.m	Acquired Time	25/11/2017 12:16:55 PM
IRM Calibration Status	Success	DA Method	GS ton du.m
Comment			
Sample Group			
Stream Name	LC 1	Info.	
		Acquisition SW Version	6200 series TOF/6500 series Q-TOF B.06.01 (B6172 SP1)

User Chromatograms

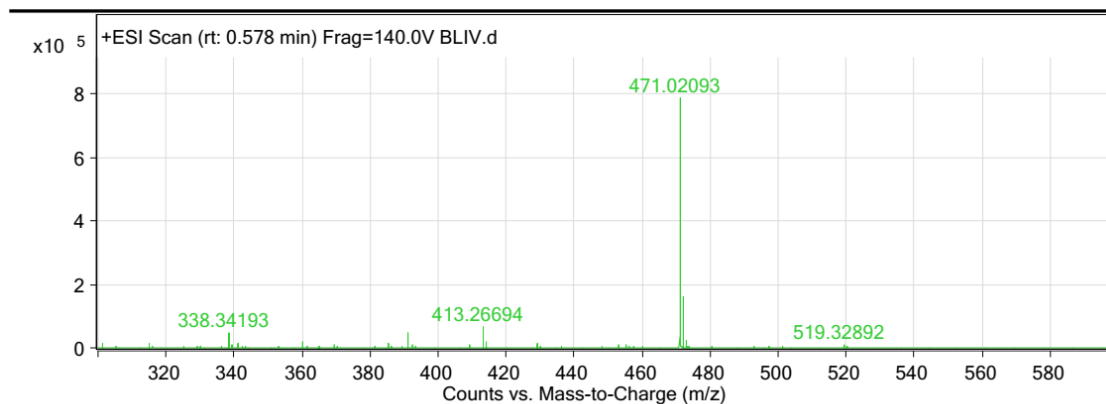
Fragmentor Voltage 140 Collision Energy 0 Ionization Mode ESI



User Spectra

Fragmentor Voltage 140 Collision Energy 0 Ionization Mode ESI

Qualitative Analysis Report



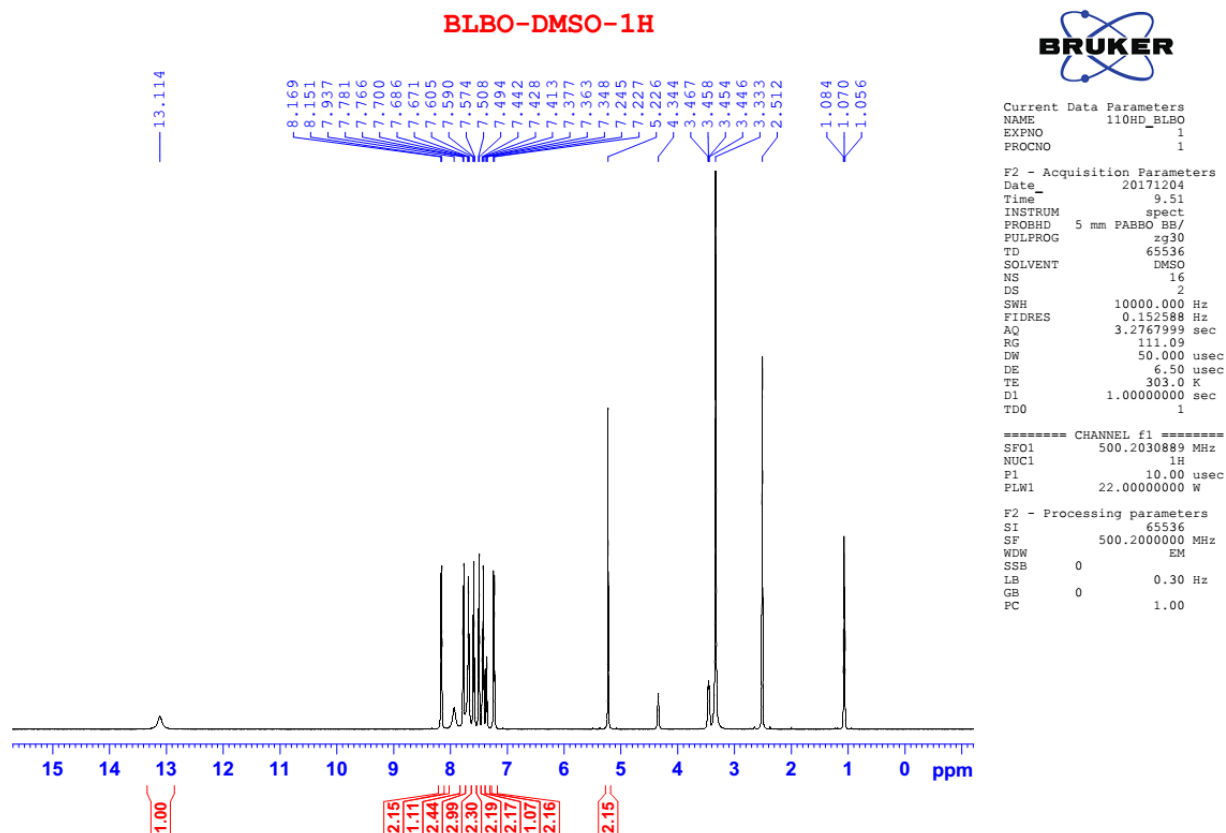
Peak List

m/z	z	Abund
338.34193	1	48250.48
391.28472	1	45739.14
413.26694	1	66204.02
471.02093	1	795408.78
472.02489	1	163875.43
803.54398	1	62083.3
808.35505	1	46611.92
861.29852	1	127180.22
862.30076	1	62932.18
941.03362	1	85225.85

--- End Of Report ---

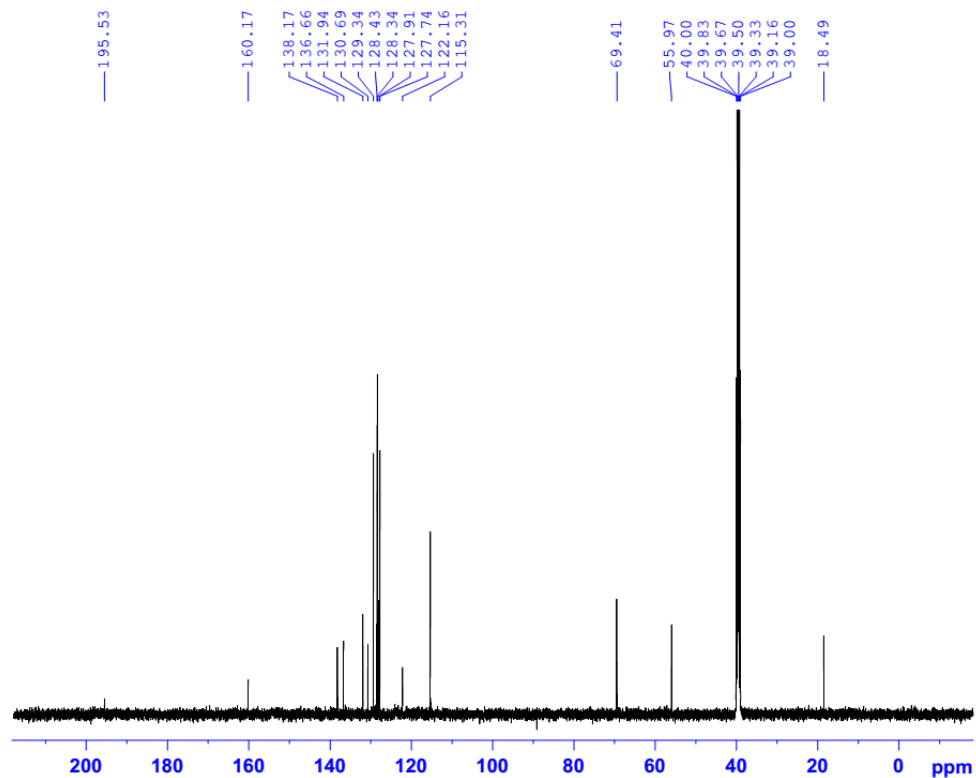
(2-(4-(Benzyloxy)phenyl)-1*H*-benzoimidazol-5-yl)(phenyl)methanone (**46**):

¹H – NMR



^{13}C – NMR

BLBO-DMSO-C13CPD



Current Data Parameters
NAME 110HD_BLBO
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date 20171205
Time 9.41
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 512
DS 4
SWH 29761.904 Hz
FIDRES 0.454131 Hz
AQ 1.1010048 sec
RG 198.57
DW 16.800 usec
DE 6.50 usec
TE 303.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7879670 MHz
NUC1 ^{13}C
P1 10.00 usec
PLW1 88.00000000 W

===== CHANNEL f2 =====
SFO2 500.2020008 MHz
NUC2 ^1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 22.00000000 W
PLW12 0.34375000 W
PLW13 0.22000000 W

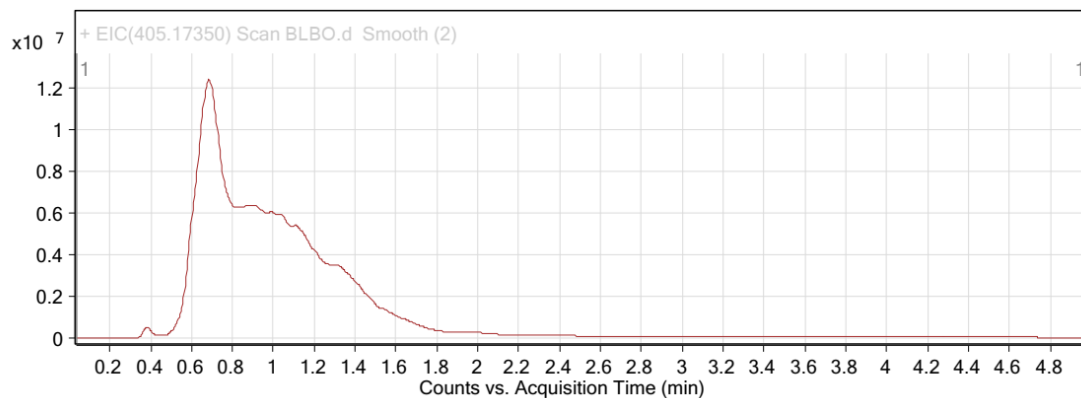
F2 - Processing parameters
SI 32768
SF 125.7754568 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

Qualitative Analysis Report

Data File	BLBO.d	Sample Name	BLBO
Sample Type	Sample	Position	P1-C6
Instrument Name	Instrument 1	User Name	
Acq Method	All Ion MSMS-Positive-100MeOH.m	Acquired Time	21/12/2017 9:17:31 AM
IRM Calibration Status	Success	DA Method	GS ton du.m
Comment			
Sample Group			
Stream Name	LC 1	Info.	
		Acquisition SW Version	6200 series TOF/6500 series Q-TOF B.06.01 (B6172 SP1)

User Chromatograms

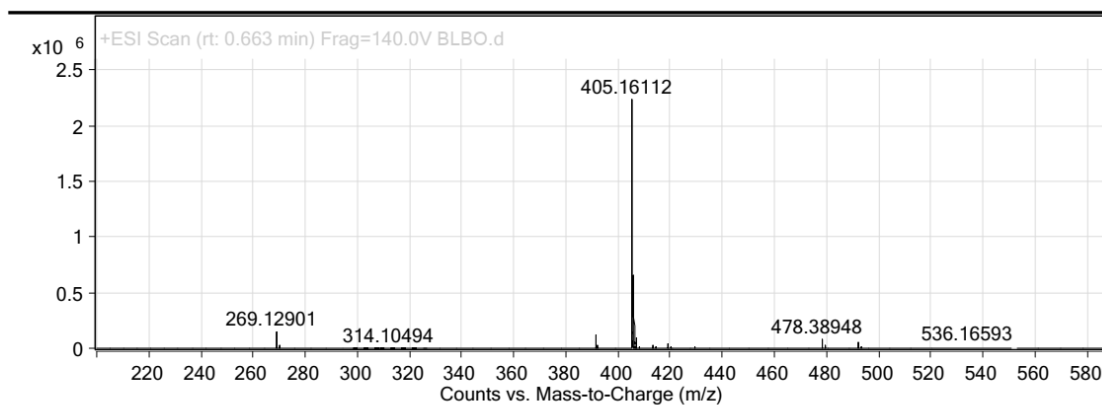
Fragmentor Voltage 140 Collision Energy 0 Ionization Mode ESI



User Spectra

Fragmentor Voltage 140 Collision Energy 0 Ionization Mode ESI

Qualitative Analysis Report



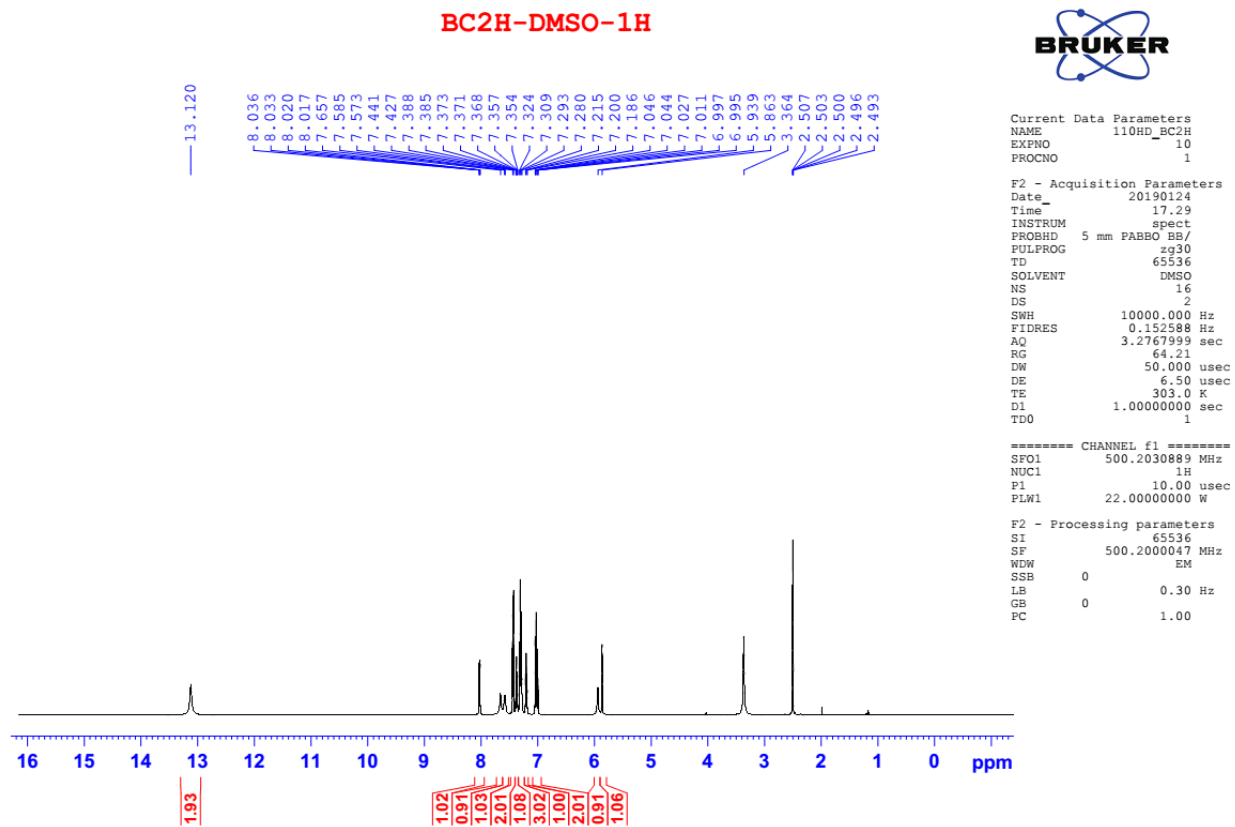
Peak List

m/z	z	Abund
269.12901	1	155937.2
391.28499	1	119469.09
405.16112	1	2256649.23
405.24514	1	148638.71
406.16413	1	661205.91
795.43815	1	633684.02
796.44189	1	350700.3
803.54578	1	256941.48
804.54778	1	150095.15
809.31465	1	151609.46

--- End Of Report ---

2-(5-(hydroxy(phenyl)methyl)-1H-benzo[d]imidazol-2-yl)phenol (47):

¹H – NMR



^{13}C – NMR

BC2H-DMSO-C13CPD



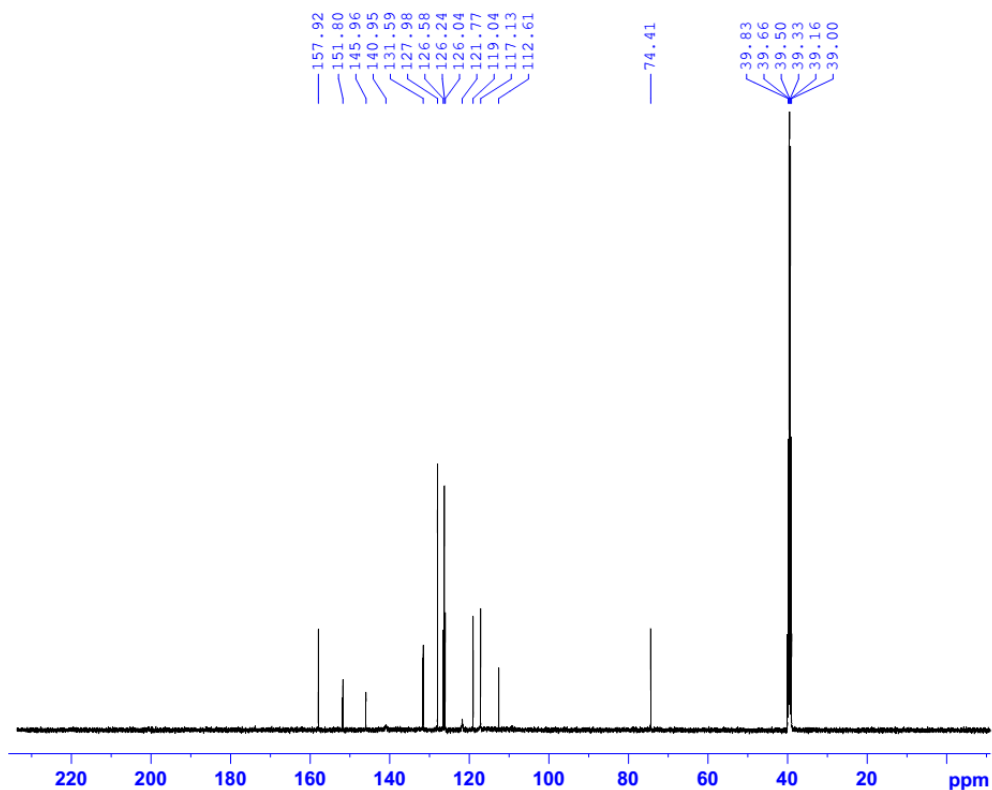
Current Data Parameters
NAME 110HD_BC2H
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190125
Time 11.08
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 256
DS 4
SWH 31250.000 Hz
FIDRES 0.476837 Hz
AQ 1.0485760 sec
RG 198.57
DW 16.000 usec
DE 6.50 usec
TE 303.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7892253 MHz
NUC1 ^{13}C
P1 10.00 usec
PLW1 88.00000000 W

===== CHANNEL f2 =====
SFO2 500.2020008 MHz
NUC2 ^1H
CPDPRG2 waltz16
PCPD2 80.00 usec
PLW2 22.00000000 W
PLW12 0.34375000 W
PLW13 0.22000000 W

F2 - Processing parameters
SI 32768
SF 125.7753900 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





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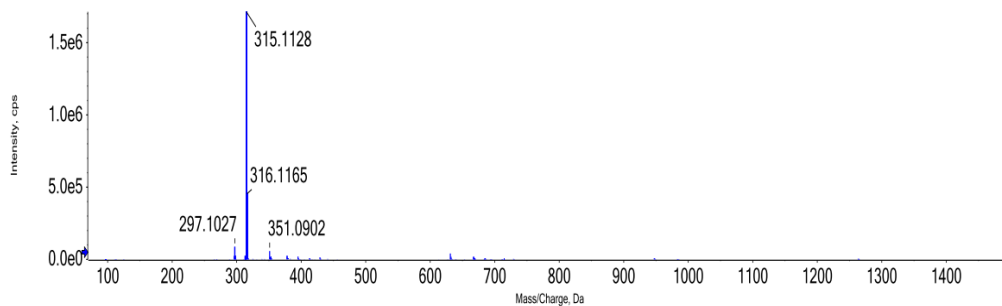
ANALYSIS REPORT

Injection details

Sample name	BC2H	Vial position	9
Sample file name	SER. wiff2 - CHI	Inject volume	5.00
Acquisition date	23/1/2019 1:04:54 PM	Acquisition method	ESI NEG_SCAN
Operator	CB21261708	Instrument name	X500R QTOF

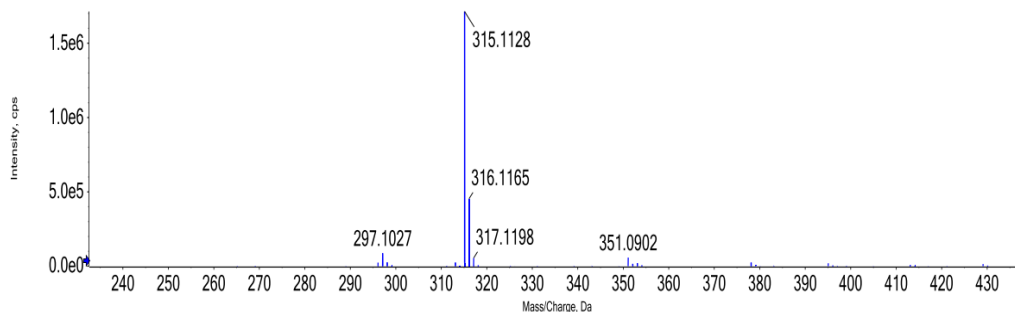
Full mass spectrum

Spectrum from BC2H-ESI.wiff2 (sample 1) - BC2H-ESI, -TOF MS (70 - 1500) from 0.171 min, noise filtered (noise multiplier = 1.5), Gaussian smoothed (0.5 points)



Expanded spectrum

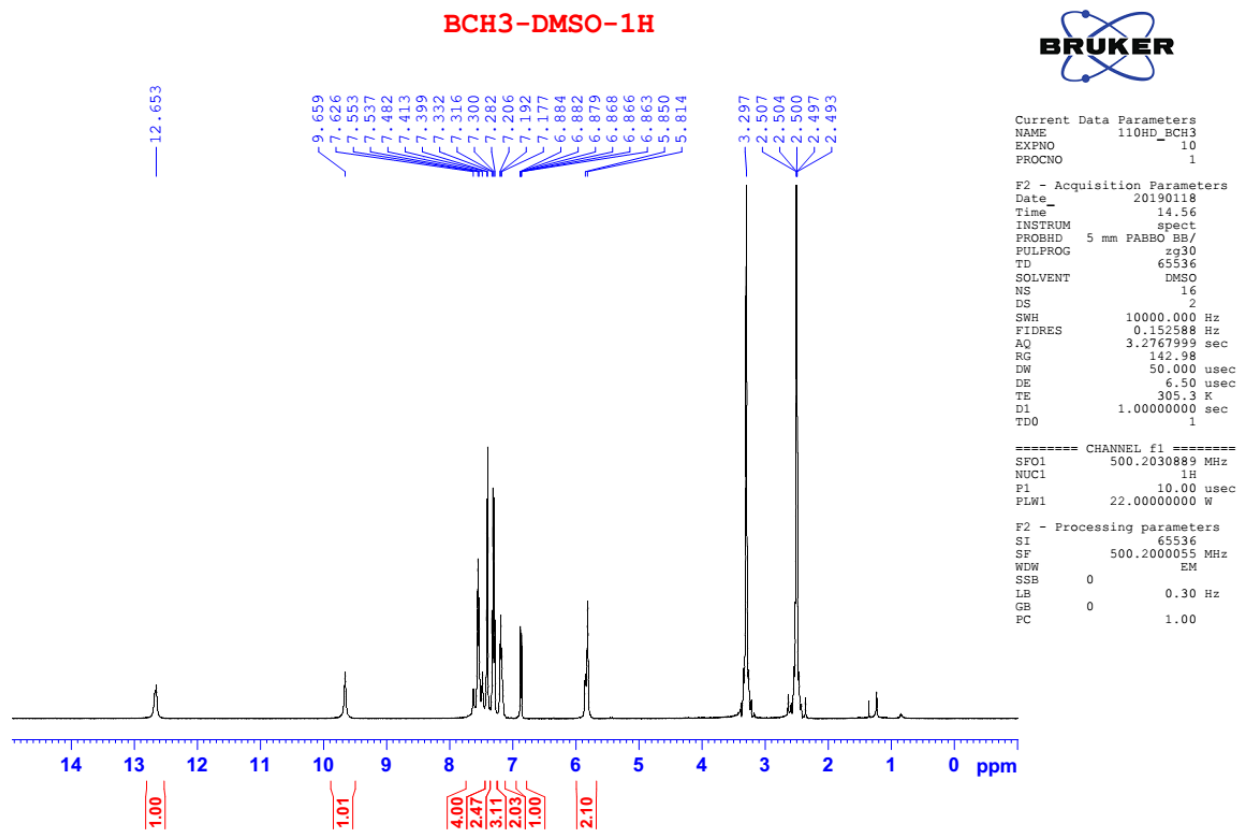
Spectrum from BC2H-ESI.wiff2 (sample 1) - BC2H-ESI, -TOF MS (70 - 1500) from 0.171 min, noise filtered (noise multiplier = 1.5), Gaussian smoothed (0.5 points)



Molecular formula prediction

3-(5-(hydroxy(phenyl)methyl)-1H-benzo[d]imidazol-2-yl)phenol (**48**):

^1H – NMR



^{13}C – NMR

BCH3-DMSO-C13CPD



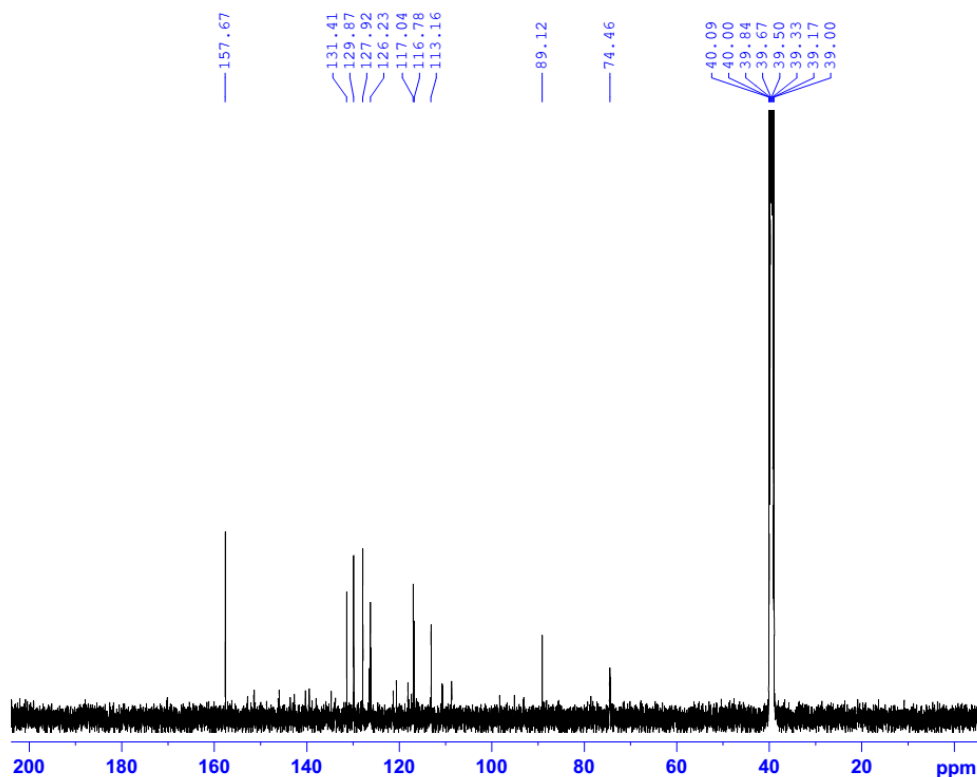
Current Data Parameters
NAME 110HD_BCH3
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date 20190119
Time 12.58
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 2048
DS 4
SWH 29761.904 Hz
FIDRES 0.454131 Hz
AQ 1.1010048 sec
RG 198.57
DW 16.800 usec
DE 6.50 usec
TE 303.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7879670 MHz
NUC1 ^{13}C
P1 10.00 usec
PLW1 88.00000000 W

===== CHANNEL f2 =====
SFO2 500.2020008 MHz
NUC2 ^1H
CPDPRG2 waltz16
PCPD2 80.00 usec
PLW2 22.00000000 W
PLW12 0.34375000 W
PLW13 0.22000000 W

F2 - Processing parameters
SI 32768
SF 125.7754573 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





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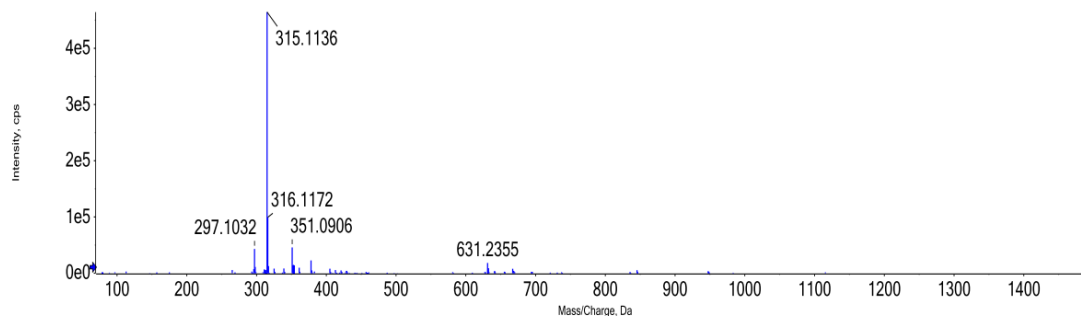
ANALYSIS REPORT

Injection details

Sample name	BC3H	Vial position	9
Sample file name	SER. wiff2 - CHI	Inject volume	5.00
Acquisition date	23/01/2019 1:04:54 PM	Acquisition method	ESI_NEG_SCAN
Operator	CB21261708	Instrument name	X500 _R QTOF

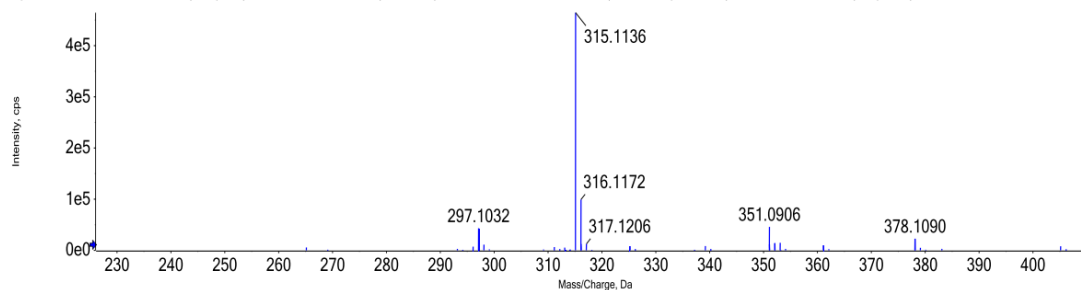
Full mass spectrum

Spectrum from BC3H-ESI.wiff2 (sample 1) - BC3H-ESI, -TOF MS (70 - 1500) from 0.148 min, noise filtered (noise multiplier = 1.5), Gaussian smoothed (0.5 points)



Expanded spectrum

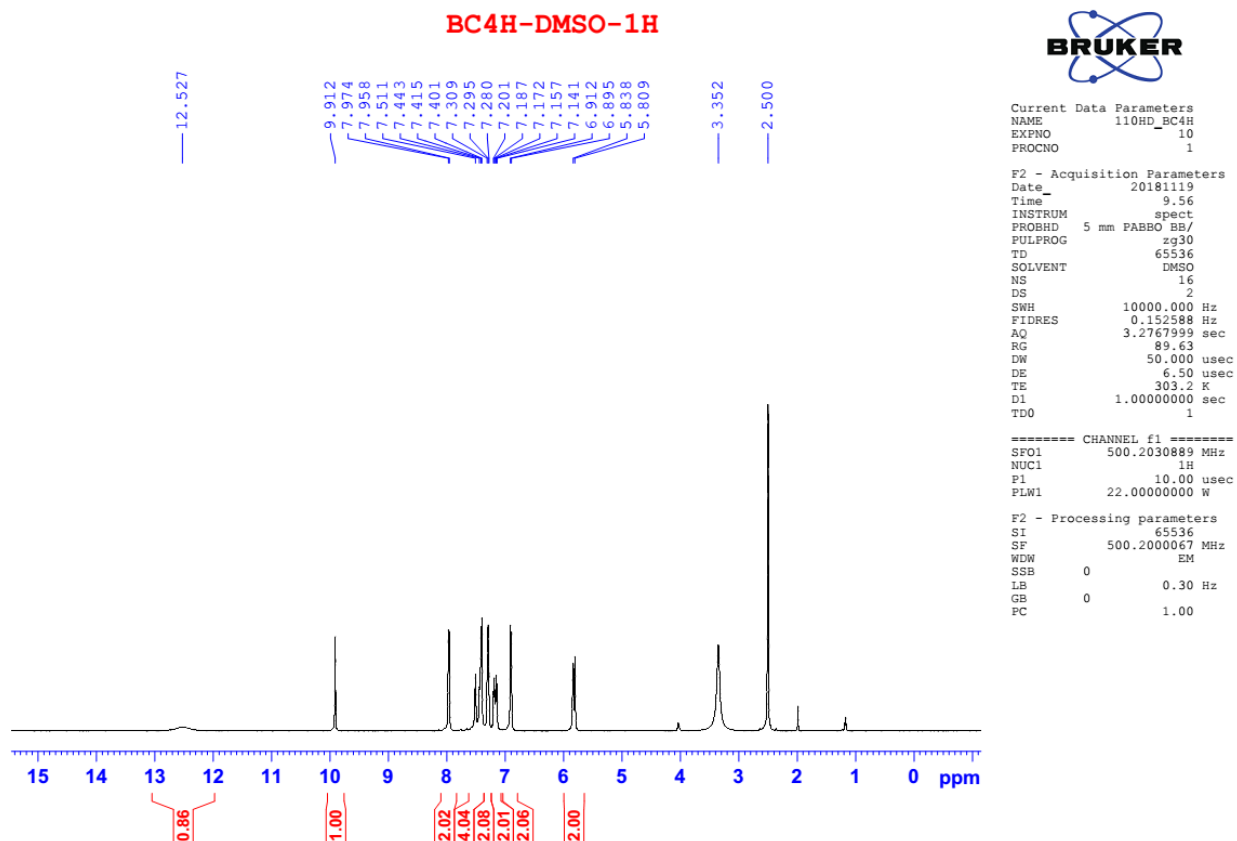
Spectrum from BC3H-ESI.wiff2 (sample 1) - BC3H-ESI, -TOF MS (70 - 1500) from 0.148 min, noise filtered (noise multiplier = 1.5), Gaussian smoothed (0.5 points)



Molecular formula prediction

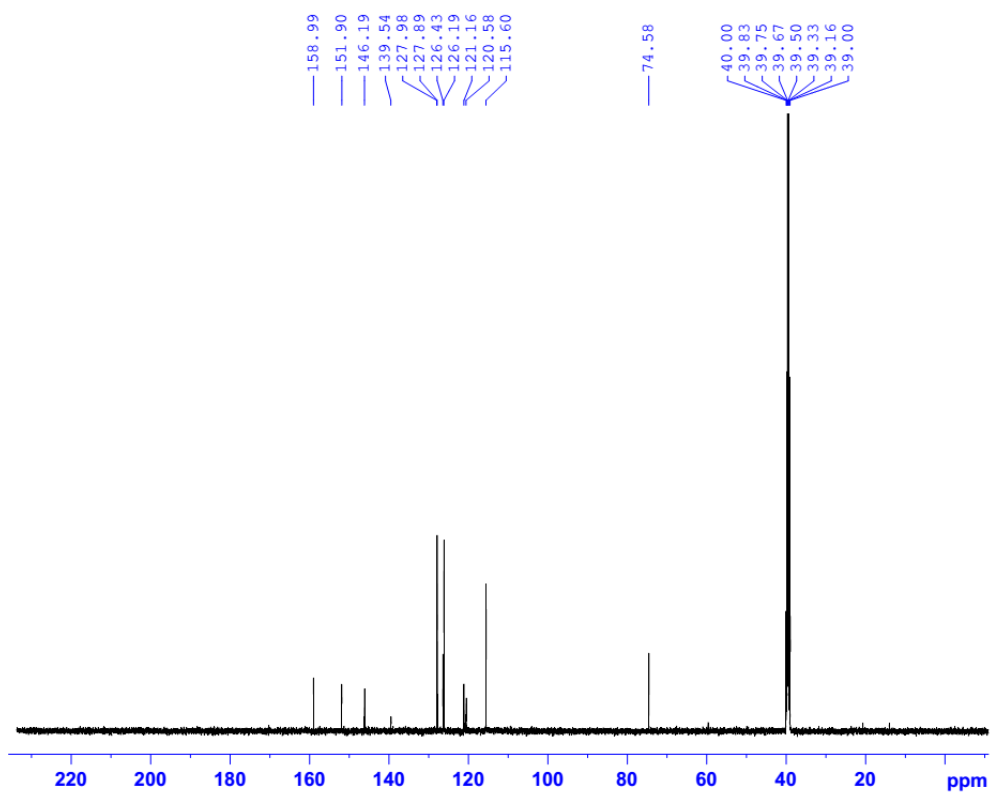
4-(5-(hydroxy(phenyl)methyl)-1H-benzo[d]imidazol-2-yl)phenol (**49**):

^1H – NMR



^{13}C – NMR

BC4H-DMSO-C13CPD



Current Data Parameters
NAME 110HD_BC4H
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20181123
Time 8.36
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 256
DS 4
SWH 31250.000 Hz
FIDRES 0.476837 Hz
AQ 1.0485760 sec
RG 198.57
DW 16.000 usec
DE 6.50 usec
TE 304.9 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7892253 MHz
NUC1 ^{13}C
P1 10.00 usec
PLW1 88.00000000 W

===== CHANNEL f2 =====
SFO2 500.2020008 MHz
NUC2 ^1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 22.00000000 W
PLW12 0.34375000 W
PLW13 0.22000000 W

F2 - Processing parameters
SI 32768
SF 125.7754568 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



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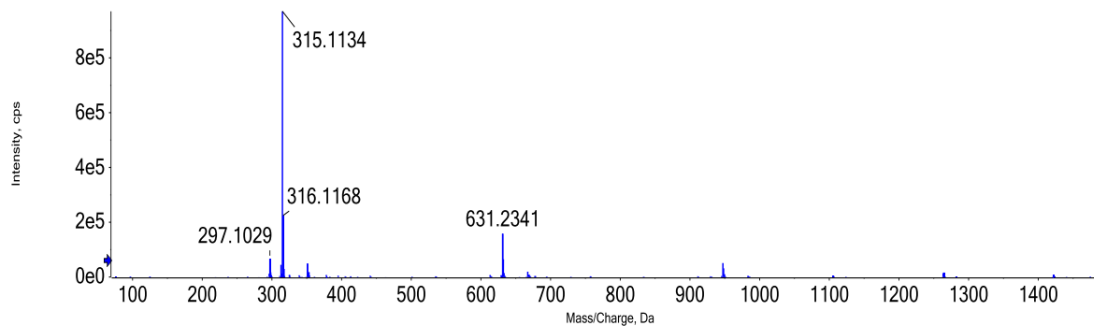
ANALYSIS REPORT

Injection details

Sample name	BC4H	Vial position	31
Sample file name	SER. wiff2-CHI	Inject volume	5.00
Acquisition date	06/05/2019 1:04:54 PM	Acquisition method	ESI_NEG_SCAN
Operator	CB21261708	Instrument name	X500 _R QTOF

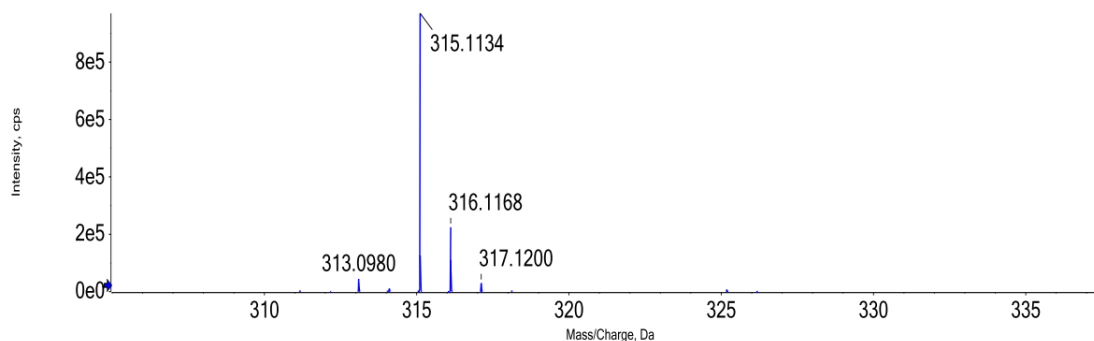
Full mass spectrum

Spectrum from BC4H-ESI.wiff2 (sample 1) - BC4H-ESI, -TOF MS (70 - 1500) from 0.153 min, noise filtered (noise multiplier = 1.5), Gaussian smoothed (0.5 points)



Expanded spectrum

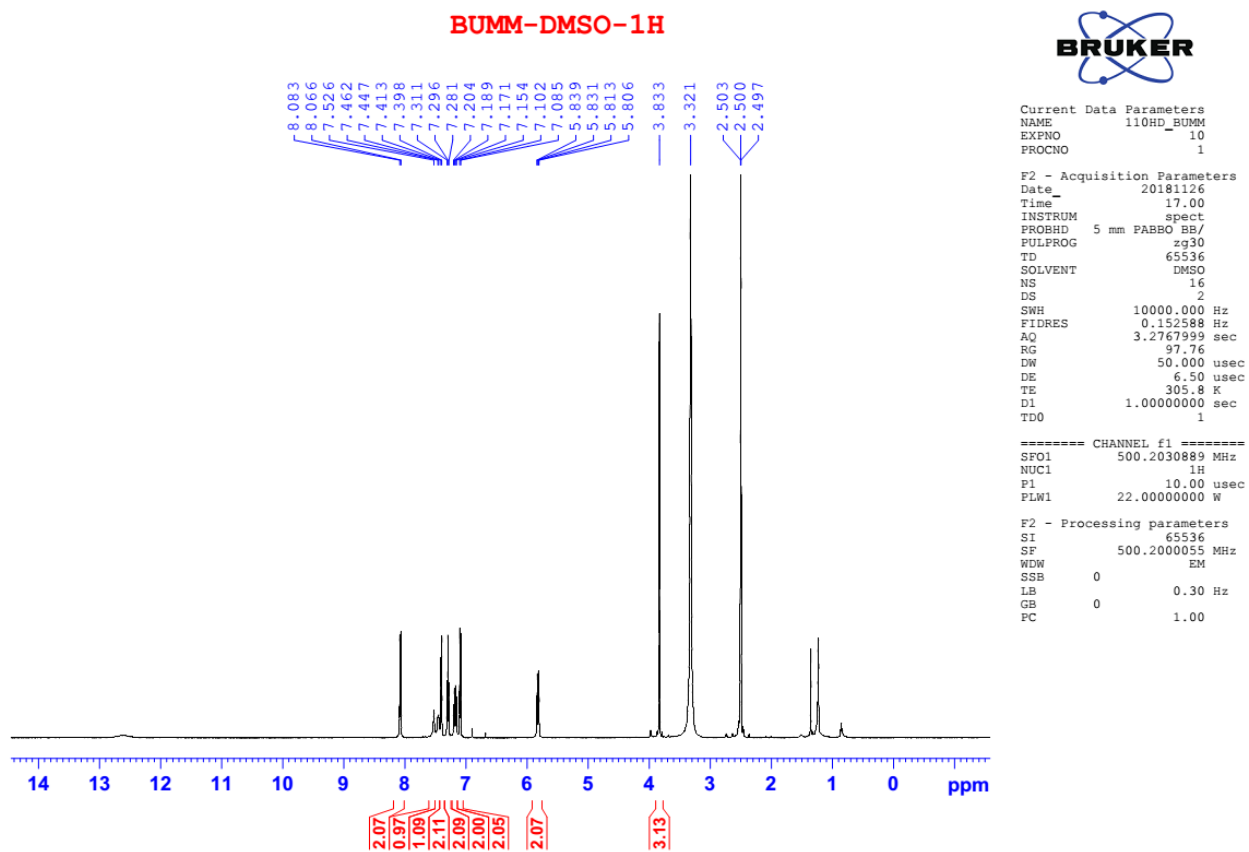
Spectrum from BC4H-ESI.wiff2 (sample 1) - BC4H-ESI, -TOF MS (70 - 1500) from 0.153 min, noise filtered (noise multiplier = 1.5), Gaussian smoothed (0.5 points)



Molecular formula prediction

[2-(4-Methoxy-phenyl)-1H-benzoimidazol-5-yl]-phenyl-methanol (**50**):

^1H – NMR



^{13}C – NMR

BUMM-DMSO-C13CPD



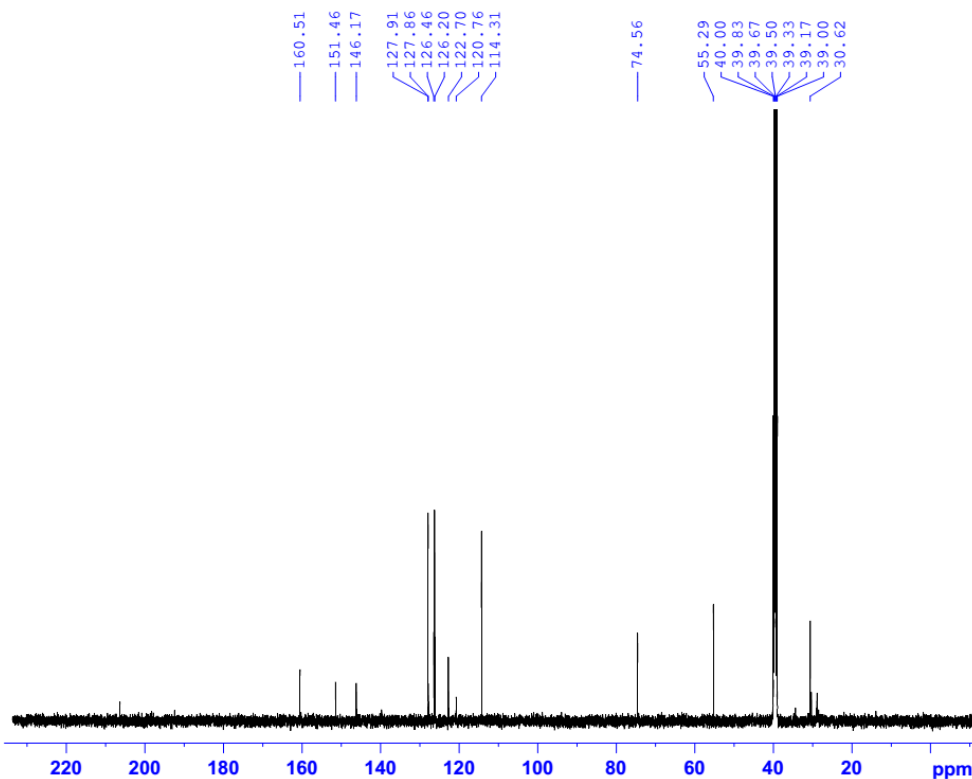
Current Data Parameters
NAME 110HD_BUMM
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20181128
Time 14.33
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 512
DS 4
SWH 31250.000 Hz
FIDRES 0.476837 Hz
AQ 1.0485760 sec
RG 198.57
DW 16.000 usec
DE 6.50 usec
TE 304.4 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7892253 MHz
NUC1 ^{13}C
P1 10.00 usec
PLW1 88.00000000 W

===== CHANNEL f2 =====
SFO2 500.2020008 MHz
NUC2 ^1H
CFDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 22.00000000 W
PLW12 0.34375000 W
PLW13 0.22000000 W

F2 - Processing parameters
SI 32768
SF 125.7754556 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





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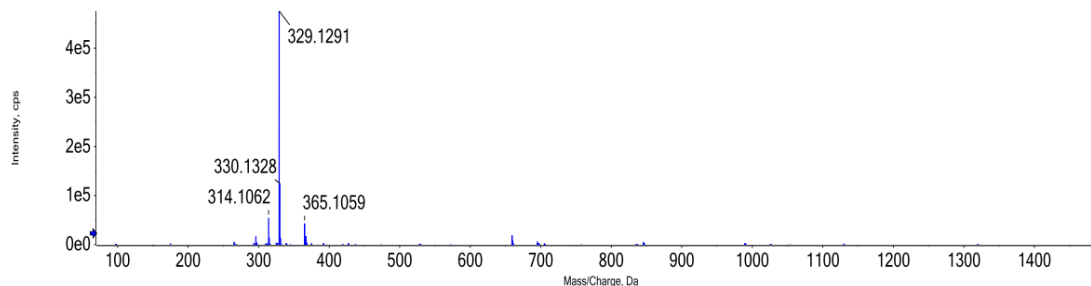
ANALYSIS REPORT

Injection details

Sample name	BUMM	Vial position	42
Sample file name	SER. wiff2-CHI	Inject volume	5.00
Acquisition date	06/05/2019 1:04:54 PM	Acquisition method	ESI_NEG_SCAN
Operator	CB21261708	Instrument name	X500R QTOF

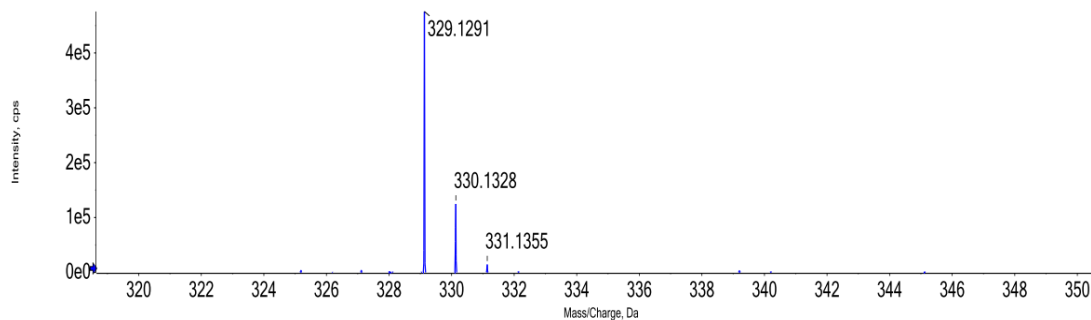
Full mass spectrum

Spectrum from BUMM-ESI.wiff2 (sample 1) - BUMM-ESI, -TOF MS (70 - 1500) from 0.199 min, noise filtered (noise multiplier = 1.5), Gaussian smoothed (0.5 points)



Expanded spectrum

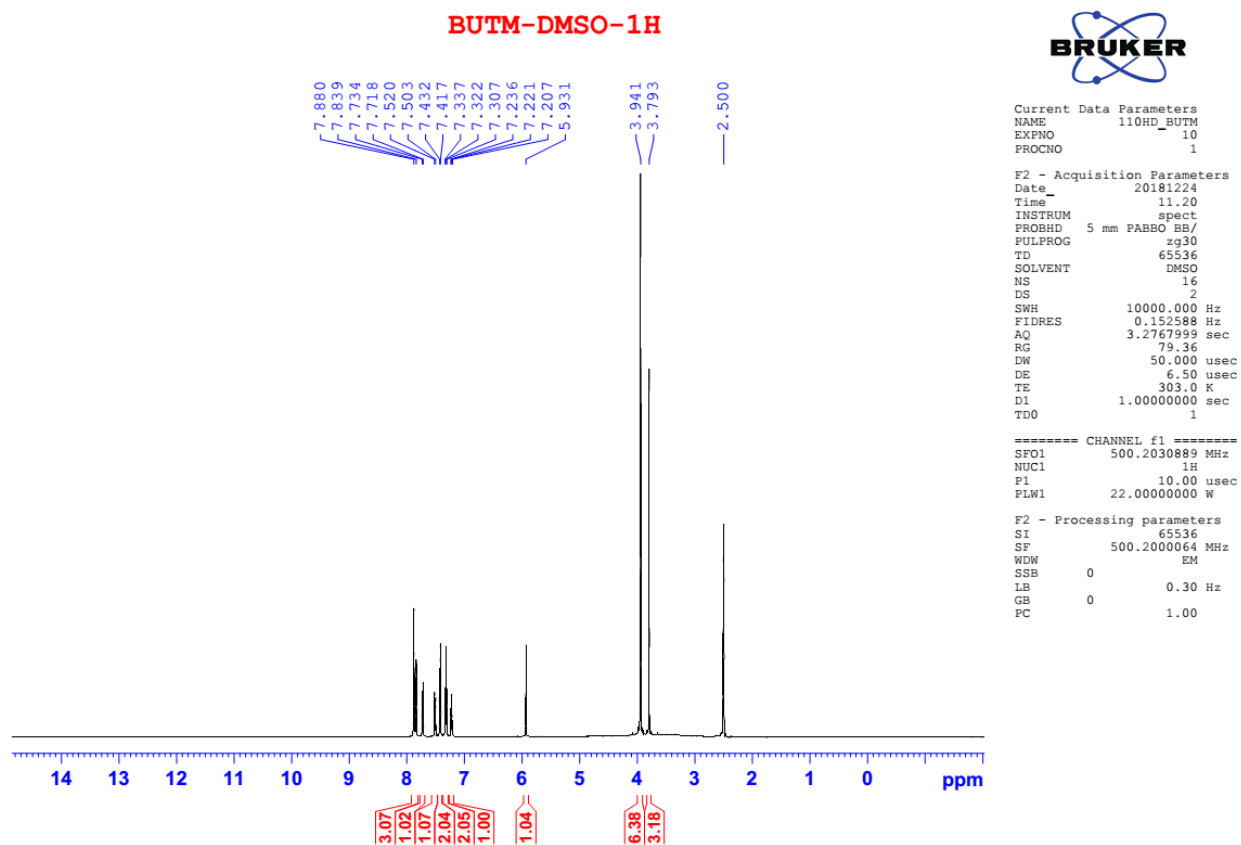
Spectrum from BUMM-ESI.wiff2 (sample 1) - BUMM-ESI, -TOF MS (70 - 1500) from 0.199 min, noise filtered (noise multiplier = 1.5), Gaussian smoothed (0.5 points)



Molecular formula prediction

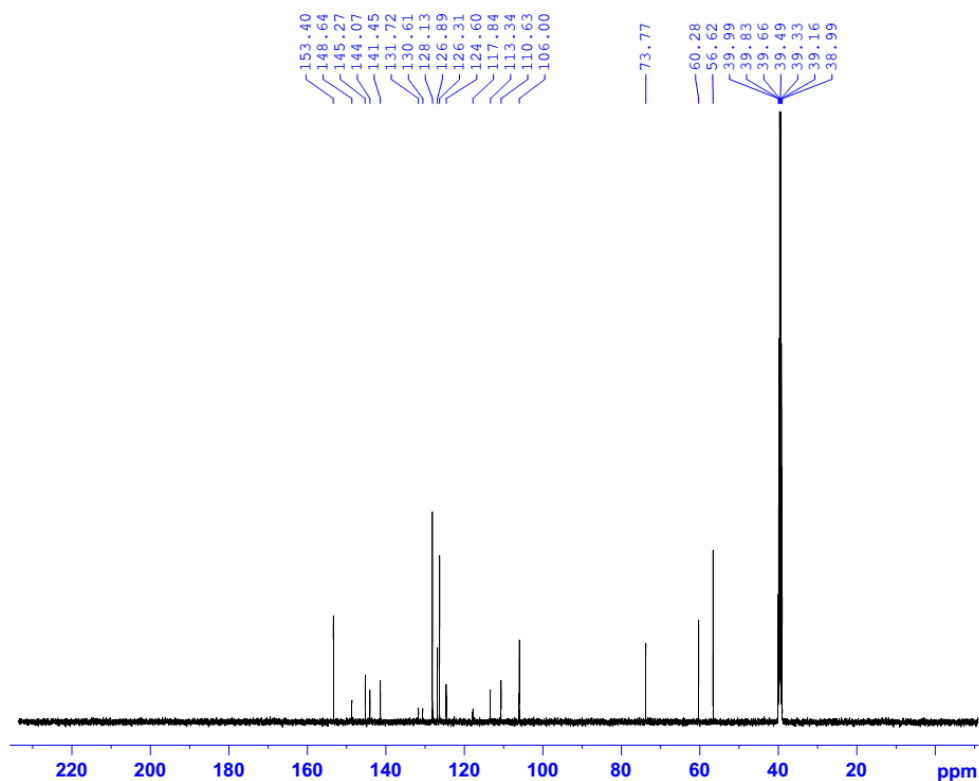
Phenyl-[2-(3,4,5-trimethoxy-phenyl)-1H-benzimidazol-5-yl]-methanol (51):

^1H – NMR



^{13}C – NMR

BUTM-DMSO-C13CPD



Current Data Parameters
NAME 110HD BUTM
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20181226
Time 23.26
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 256
DS 4
SWH 31250.000 Hz
FIDRES 0.476837 Hz
AQ 1.0485760 sec
RG 198.57
DW 16.000 usec
DE 6.50 usec
TE 305.5 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7892253 MHz
NUC1 13C
P1 10.00 usec
PLW1 88.00000000 W

===== CHANNEL f2 =====
SFO2 500.2020008 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 80.00 usec
PLW2 22.00000000 W
PLW12 0.34375000 W
PLW13 0.22000000 W

F2 - Processing parameters
SI 32768
SF 125.7753900 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



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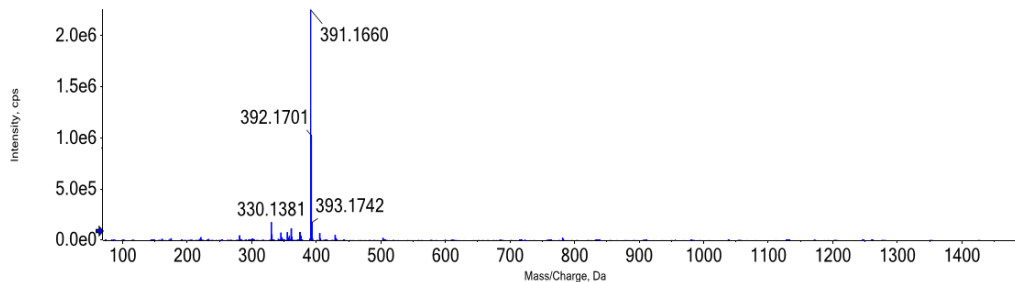
ANALYSIS REPORT

Injection details

Sample name	BUIV	Vial position	40
Sample file name	SER. wiff2-CHI	Inject volume	5.00
Acquisition date	06/05/2019 1:04:54 PM	Acquisition method	ESI_POS_SCAN
Operator	CB21261708	Instrument name	X500R QTOF

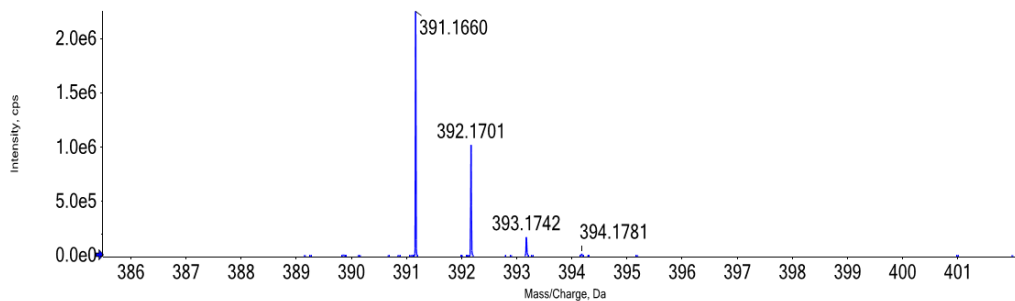
Full mass spectrum

Spectrum from P49-CHI.wiff2 (sample 5) - BUIV-ESI-P49, +TOF MS (70 - 1500) from 0.111 min, noise filtered (noise multiplier = 1.5), Gaussian smoothed (0.5 points)



Expanded spectrum

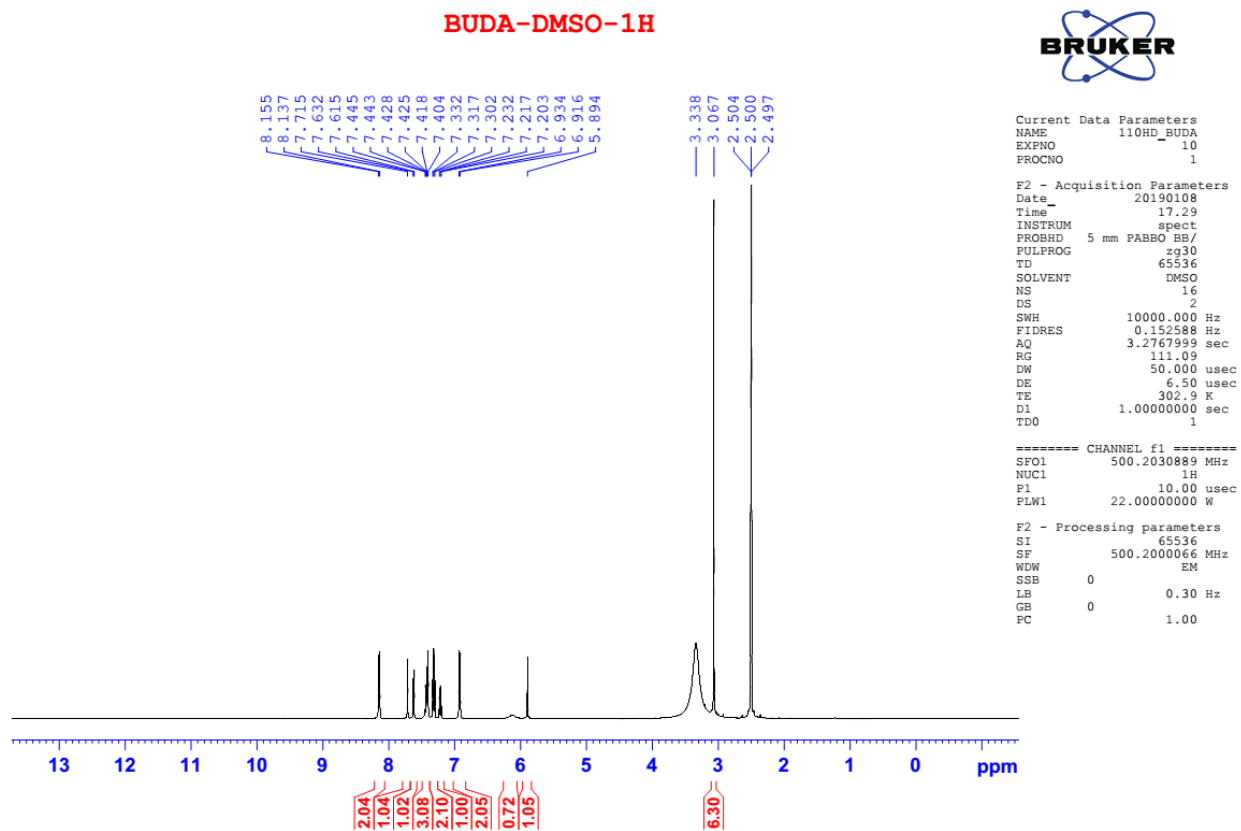
Spectrum from P49-CHI.wiff2 (sample 5) - BUIV-ESI-P49, +TOF MS (70 - 1500) from 0.111 min, noise filtered (noise multiplier = 1.5), Gaussian smoothed (0.5 points)



Molecular formula prediction

[2-(4-Dimethylamino-phenyl)-1H-benzoimidazol-5-yl]-phenyl-methanol (52):

^1H – NMR



^{13}C – NMR

BUDA-DMSO-C13CPD



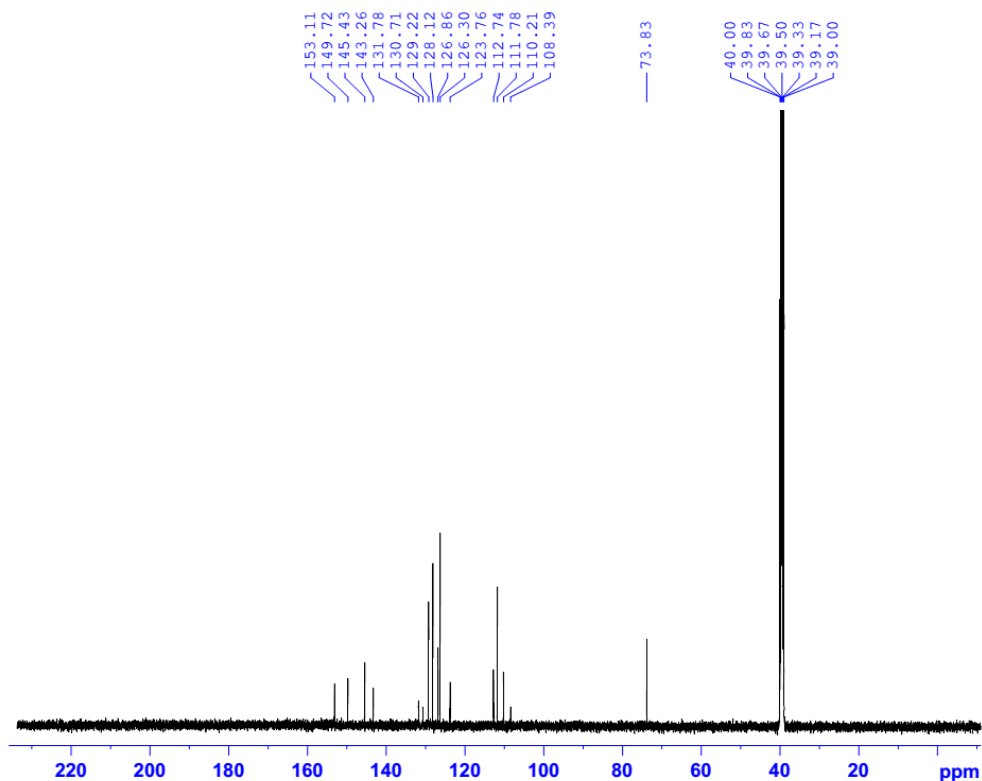
Current Data Parameters
NAME 110HD_BUDA
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190109
Time_ 18.10
INSTRUM spect
PROBHD 5 mm PABBO BB/
FULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 2048
DS 4
SWH 31250.000 Hz
FIDRES 0.476837 Hz
AQ 1.0485760 sec
RG 198.57
DW 16.000 usec
DE 6.50 usec
TE 303.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7892253 MHz
NUC1 ^{13}C
P1 10.00 usec
PLW1 88.00000000 W

===== CHANNEL f2 =====
SFO2 500.2020008 MHz
NUC2 ^1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 22.00000000 W
PLW12 0.34375000 W
PLW13 0.22000000 W

F2 - Processing parameters
SI 32768
SF 125.7753900 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
FC 1.40





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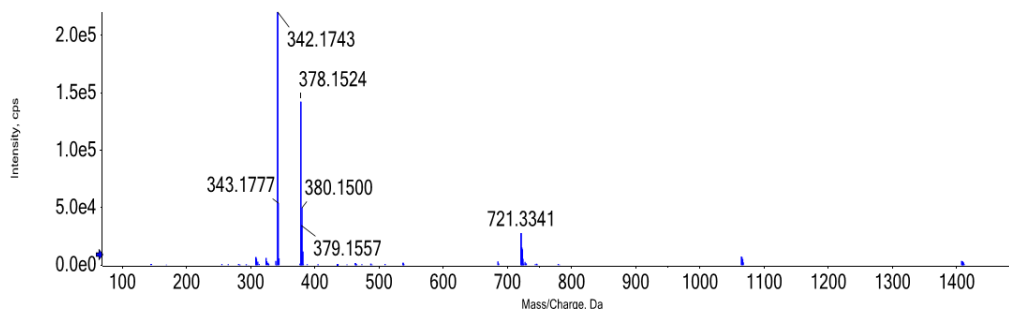
ANALYSIS REPORT

Injection details

Sample name	BUDA	Vial position	16
Sample file name	SER. wiff2-CHI	Inject volume	5.00
Acquisition date	06/05/2019 1:04:54 PM	Acquisition method	ESI_NEG_SCAN
Operator	CB21261708	Instrument name	X500R QTOF

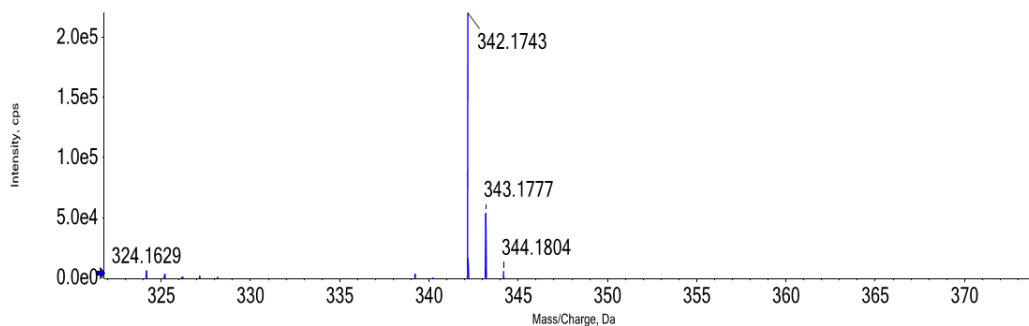
Full mass spectrum

Spectrum from P49-CHI.wiff2 (sample 14) - BUDA-ESI-P49, -TOF MS (70 - 1500) from 0.153 min, noise filtered (noise multiplier = 1.5), Gaussian smoothed (0.5 points)



Expanded spectrum

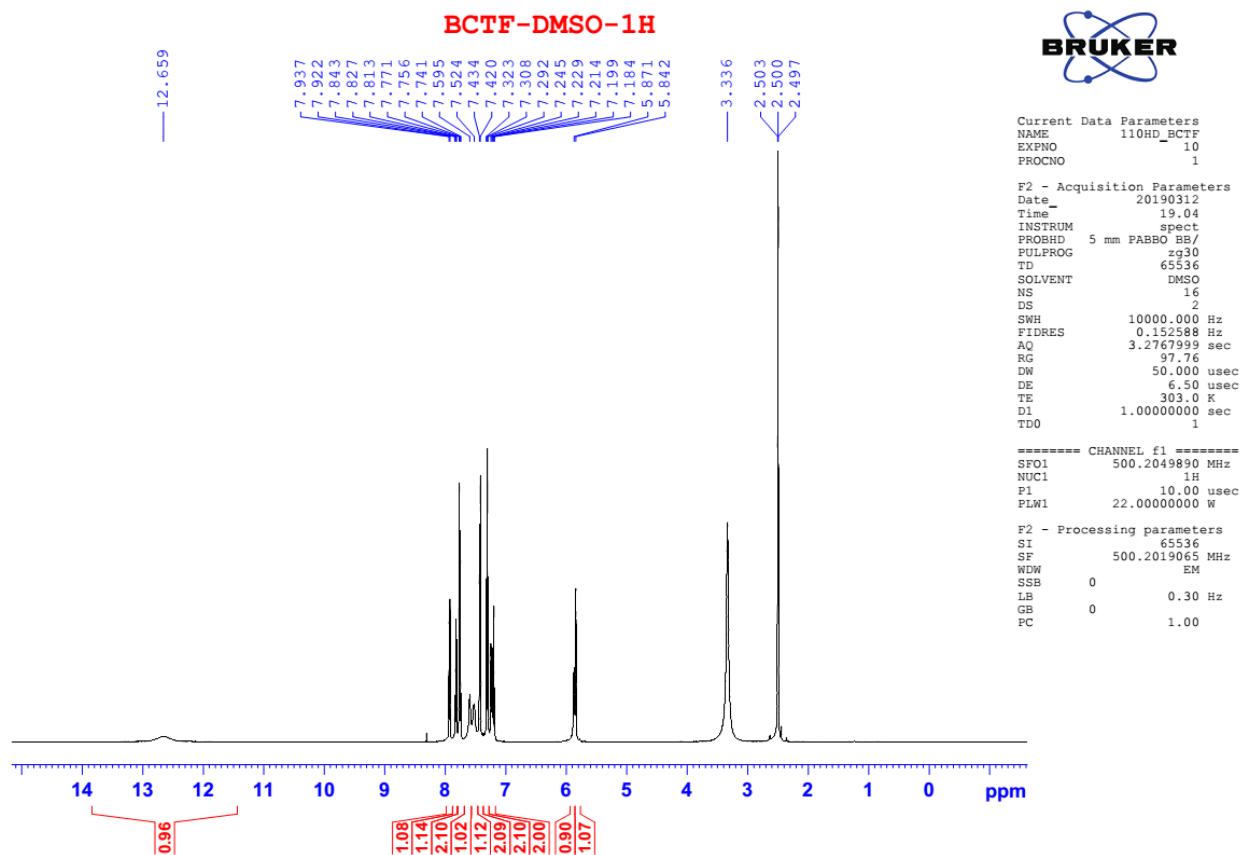
Spectrum from P49-CHI.wiff2 (sample 14) - BUDA-ESI-P49, -TOF MS (70 - 1500) from 0.153 min, noise filtered (noise multiplier = 1.5), Gaussian smoothed (0.5 points)



Molecular formula prediction

phenyl(2-(2-(trifluoromethyl)phenyl)-1H-benzo[d]imidazol-5-yl)methanol (53):

^1H – NMR



^{13}C – NMR

BCTF-DMSO- C^{13}CPD



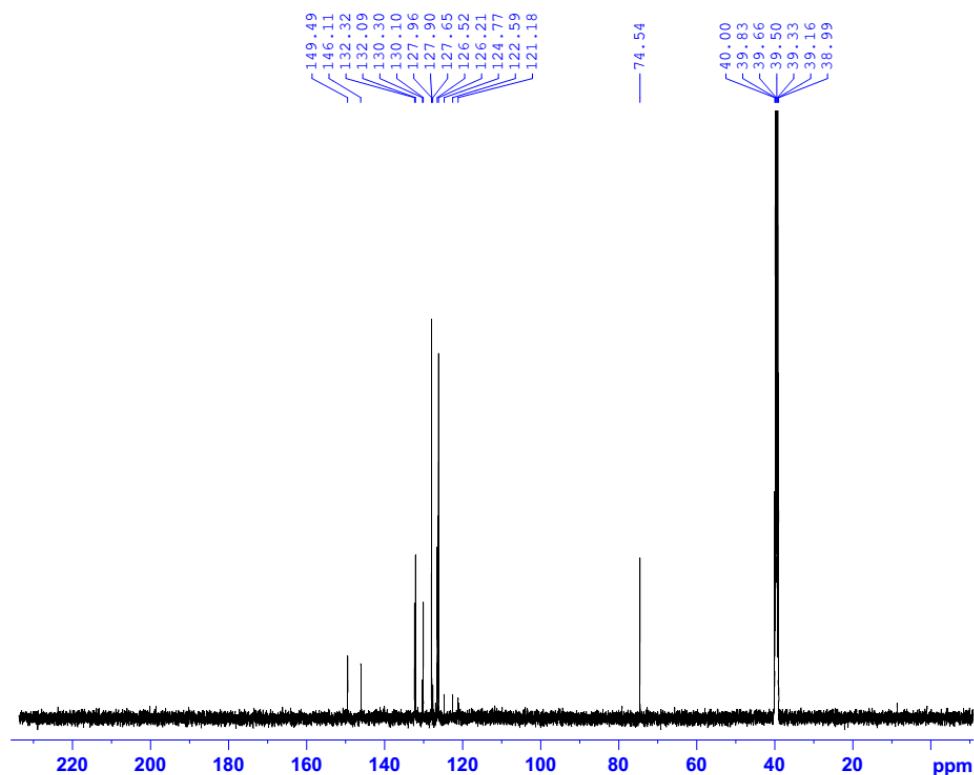
Current Data Parameters
NAME 110HD_BCTF
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190315
Time 15.43
INSTRUM spect
PROBHD 5 mm PABBO BB/
FULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 256
DS 4
SWH 31250.000 Hz
FIDRES 0.476837 Hz
AQ 1.0485760 sec
RG 198.57
DW 16.000 usec
DE 6.50 usec
TE 303.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7897032 MHz
NUC1 ^{13}C
P1 10.00 usec
PLW1 88.00000000 W

===== CHANNEL f2 =====
SFO2 500.2039008 MHz
NUC2 ^1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 22.00000000 W
PLW12 0.34375000 W
PLW13 0.22000000 W

F2 - Processing parameters
SI 32768
SF 125.7759319 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



HRMS

Display Report

Analysis Info

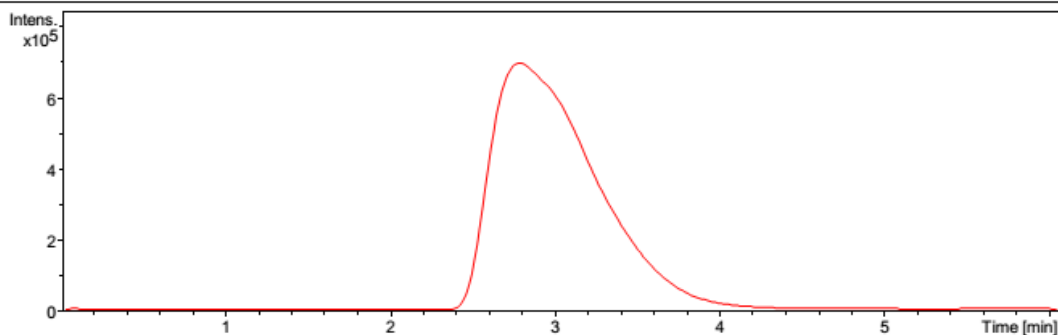
Analysis Name D:\Data\2019\thang 05\13-05\BCTF_1-B_6_01_1348.d
 Method protein my mass tb.m
 Sample Name BCTF
 Comment

Acquisition Date 4/19/2019 4:10:26 PM

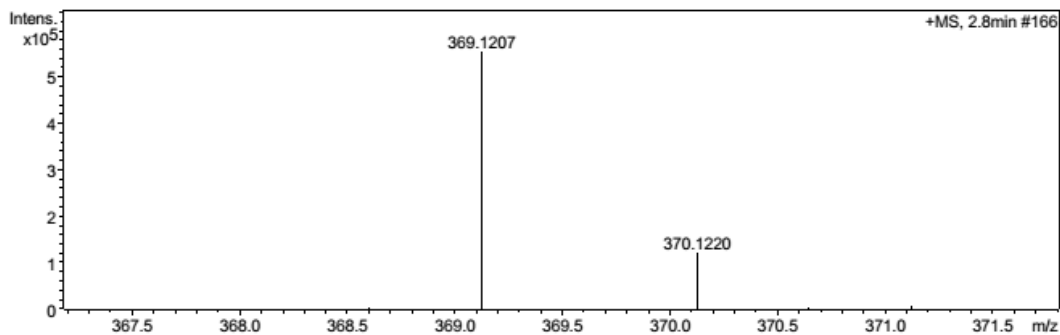
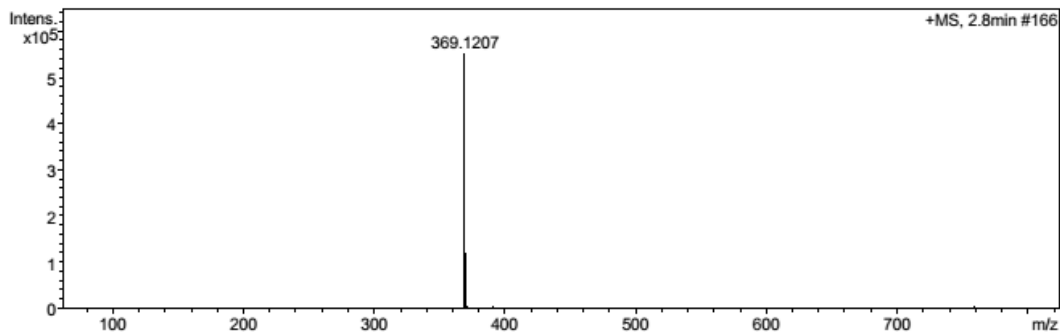
Operator ANH MAI
 Instrument micrOTOF-Q 10187

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	1.2 Bar
Focus	Not active	Set Capillary	4500 V	Set Dry Heater	200 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	8.0 l/min
Scan End	900 m/z	Set Collision Cell RF	300.0 Vpp	Set Divert Valve	Source

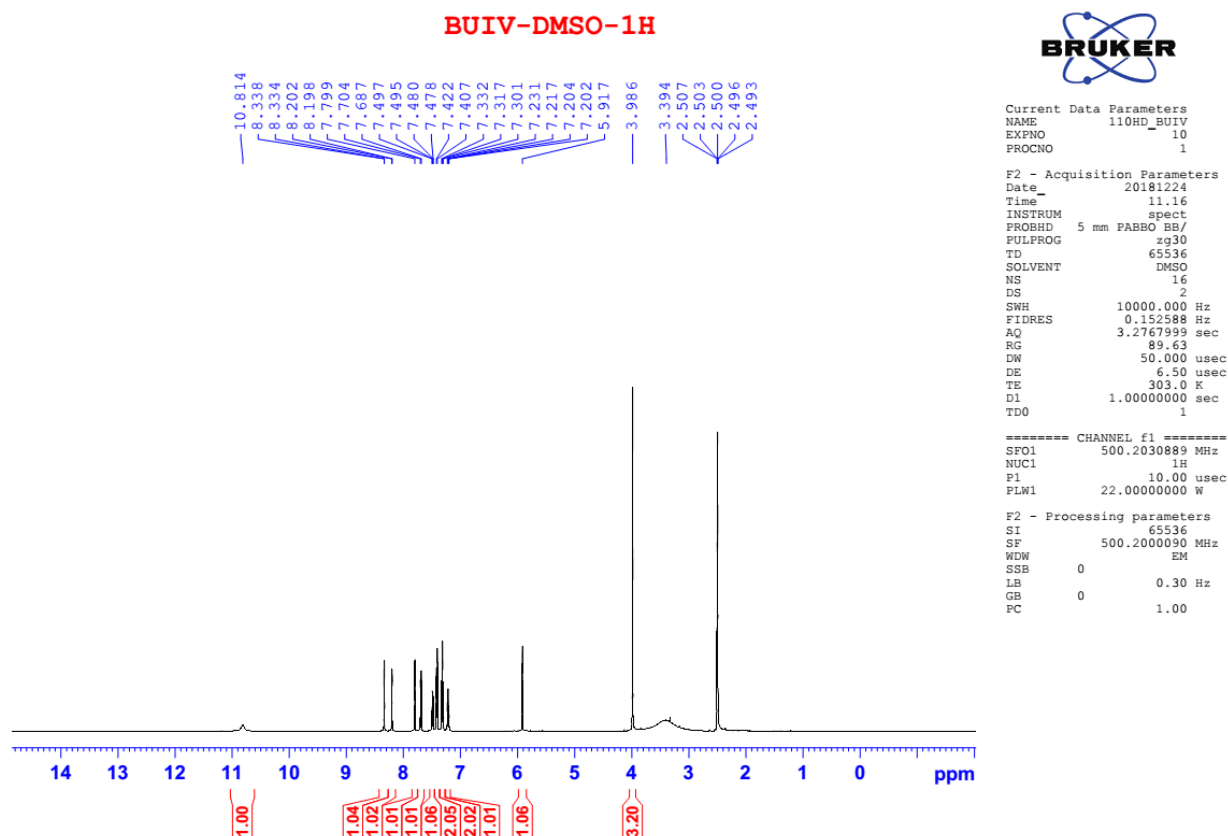


— TIC +All MS, Smoothed (2.01,2,GA)



4-[5-(Hydroxy-phenyl-methyl)-1H-benzoimidazol-2-yl]-2-iodo-6-methoxy-phenol (**54**):

^1H – NMR



^{13}C – NMR

BUIV-DMSO- C^{13}CPD



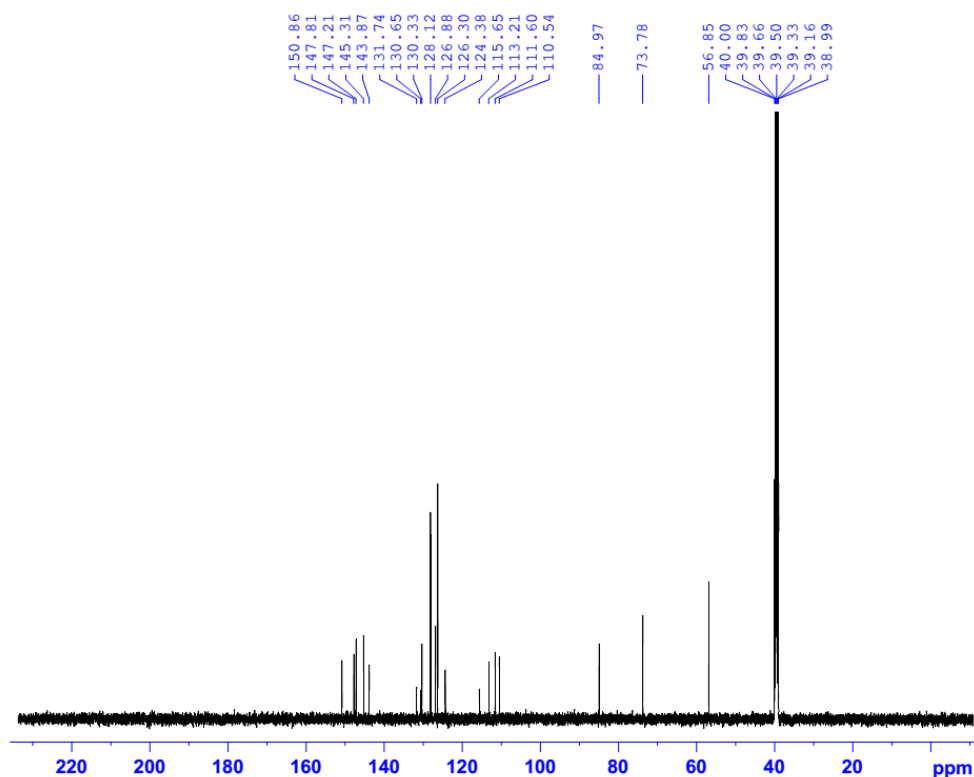
Current Data Parameters
NAME 110HD BUIV
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20181227
Time 0.29
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 256
DS 4
SWH 31250.000 Hz
FIDRES 0.476837 Hz
AQ 1.0485760 sec
RG 198.57
DW 16.000 usec
DE 6.50 usec
TE 305.4 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7892253 MHz
NUC1 ^{13}C
P1 10.00 usec
PLW1 88.00000000 W

===== CHANNEL f2 =====
SFO2 500.2020008 MHz
NUC2 ^1H
CPDPRG2 waltz16
PCPD2 80.00 usec
PLW2 22.00000000 W
PLW12 0.34375000 W
PLW13 0.22000000 W

F2 - Processing parameters
SI 32768
SF 125.7753900 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





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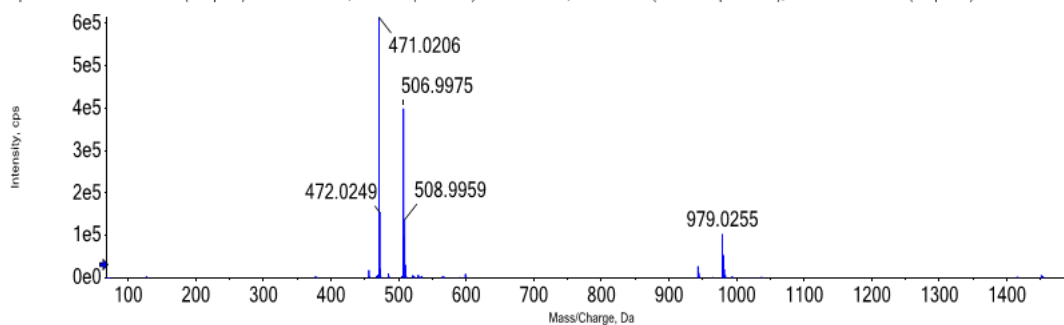
ANALYSIS REPORT

Injection details

Sample name	BUTM	Vial position	39
Sample file name	SER. wiff2-CHI	Inject volume	5.00
Acquisition date	06/05/2019 1:04:54 PM	Acquisition method	ESI_NEG_SCAN
Operator	CB21261708	Instrument name	X500R QTOF

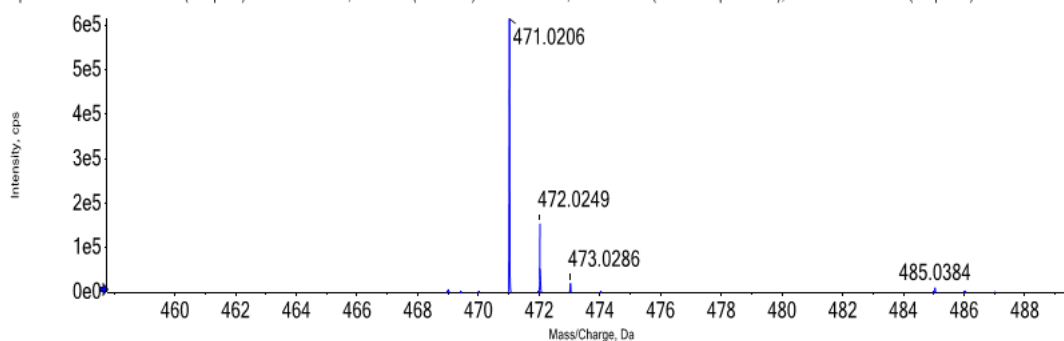
Full mass spectrum

Spectrum from P49-CHI.wiff2 (sample 7) - BUTM-ESI-P49, -TOF MS (70 - 1500) from 0.157 min, noise filtered (noise multiplier = 1.5), Gaussian smoothed (0.5 points)



Expanded spectrum

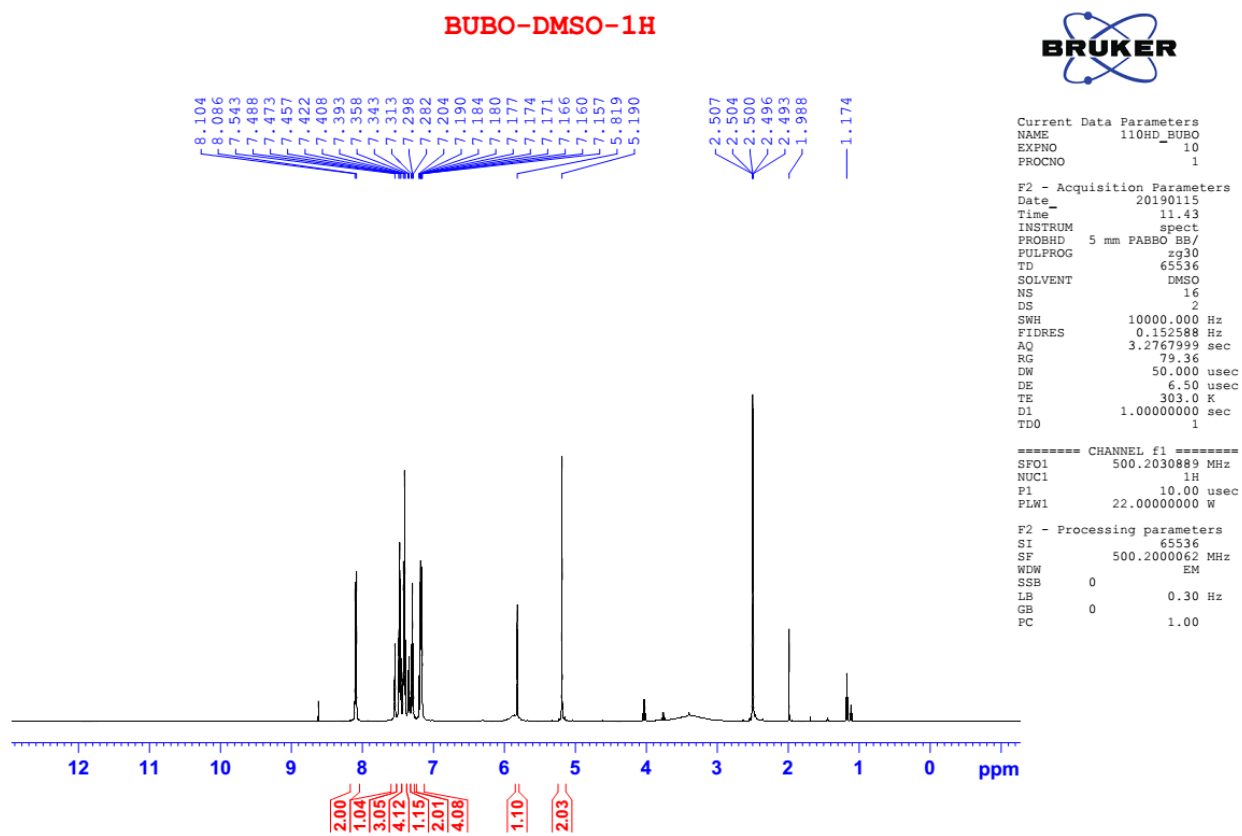
Spectrum from P49-CHI.wiff2 (sample 7) - BUTM-ESI-P49, -TOF MS (70 - 1500) from 0.157 min, noise filtered (noise multiplier = 1.5), Gaussian smoothed (0.5 points)



Molecular formula prediction

[2-(4-Benzoyloxy-phenyl)-1H-benzoimidazol-5-yl]-phenyl-methanol (55):

^1H – NMR



^{13}C – NMR

BUBO-DMSO-C13CPD



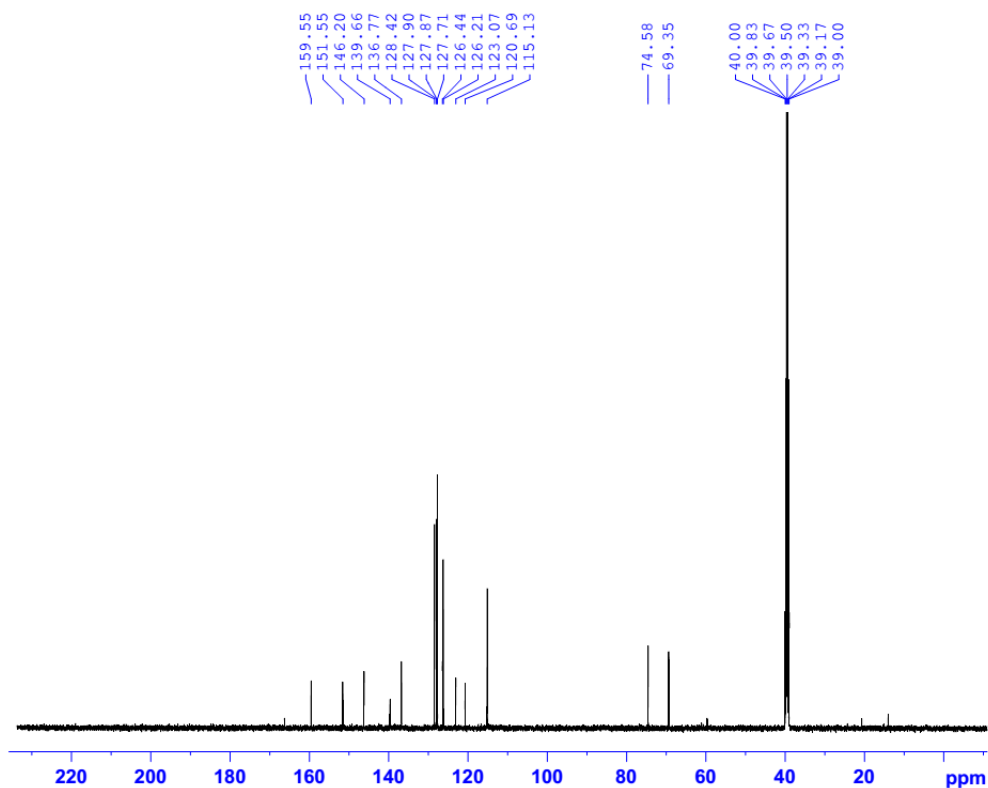
Current Data Parameters
NAME 110HD_BUBO
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190117
Time 19.25
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 256
DS 4
SWH 31250.000 Hz
FIDRES 0.476837 Hz
AQ 1.0485760 sec
RG 198.57
DW 16.000 usec
DE 6.50 usec
TE 303.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 125.7892253 MHz
NUC1 ^{13}C
P1 10.00 usec
PLW1 88.00000000 W

===== CHANNEL f2 =====
SFO2 500.2020008 MHz
NUC2 ^1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 22.00000000 W
PLW12 0.34375000 W
PLW13 0.22000000 W

F2 - Processing parameters
SI 32768
SF 125.7754562 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





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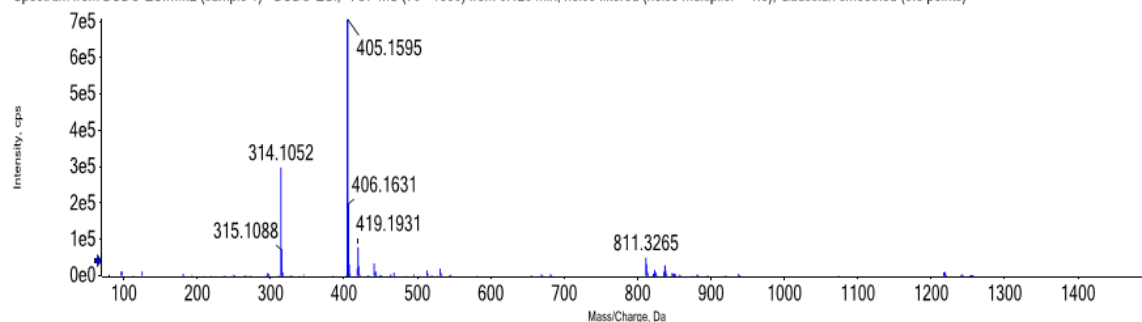
ANALYSIS REPORT

Injection details

Sample name	BUBO	Vial position	10
Sample file name	SER. wiff2 – CHI	Inject volume	5.00
Acquisition date	23/1/2019 1:04:54 PM	Acquisition method	ESI_NEG_SCAN
Operator	CB21261708	Instrument name	X500R QTOF

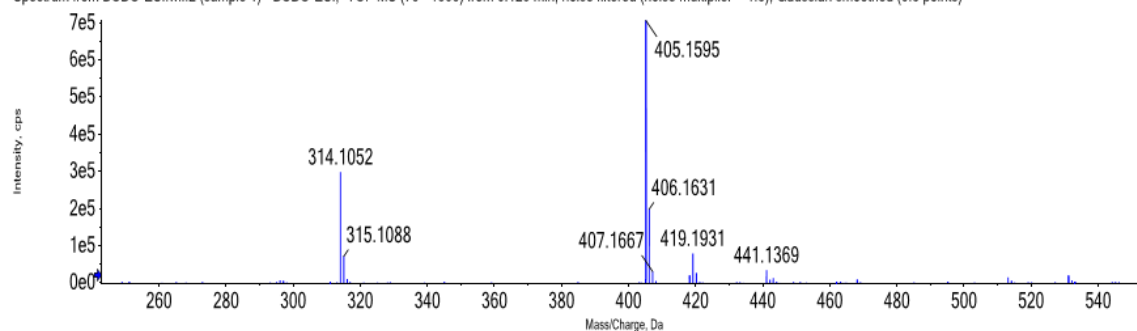
Full mass spectrum

Spectrum from BUBO-ESI.wiff2 (sample 1) - BUBO-ESI, -TOF MS (70 - 1500) from 0.129 min, noise filtered (noise multiplier = 1.5), Gaussian smoothed (0.5 points)



Expanded spectrum

Spectrum from BUBO-ESI.wiff2 (sample 1) - BUBO-ESI, -TOF MS (70 - 1500) from 0.129 min, noise filtered (noise multiplier = 1.5), Gaussian smoothed (0.5 points)



Molecular formula prediction