

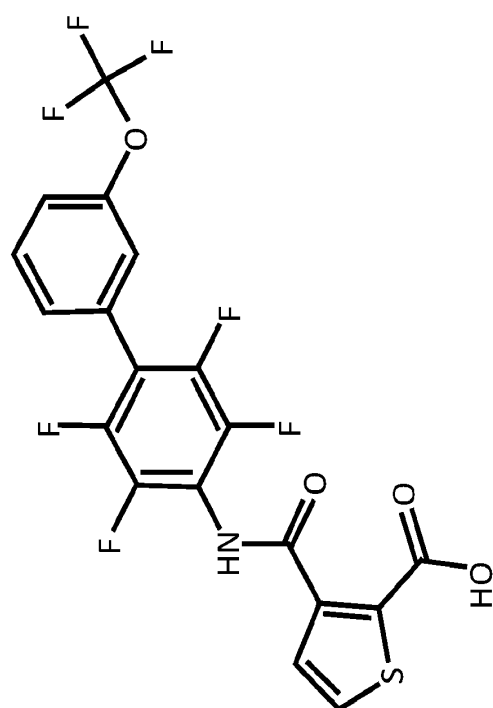


Fig. 1

XRPD of PP-001 Form A

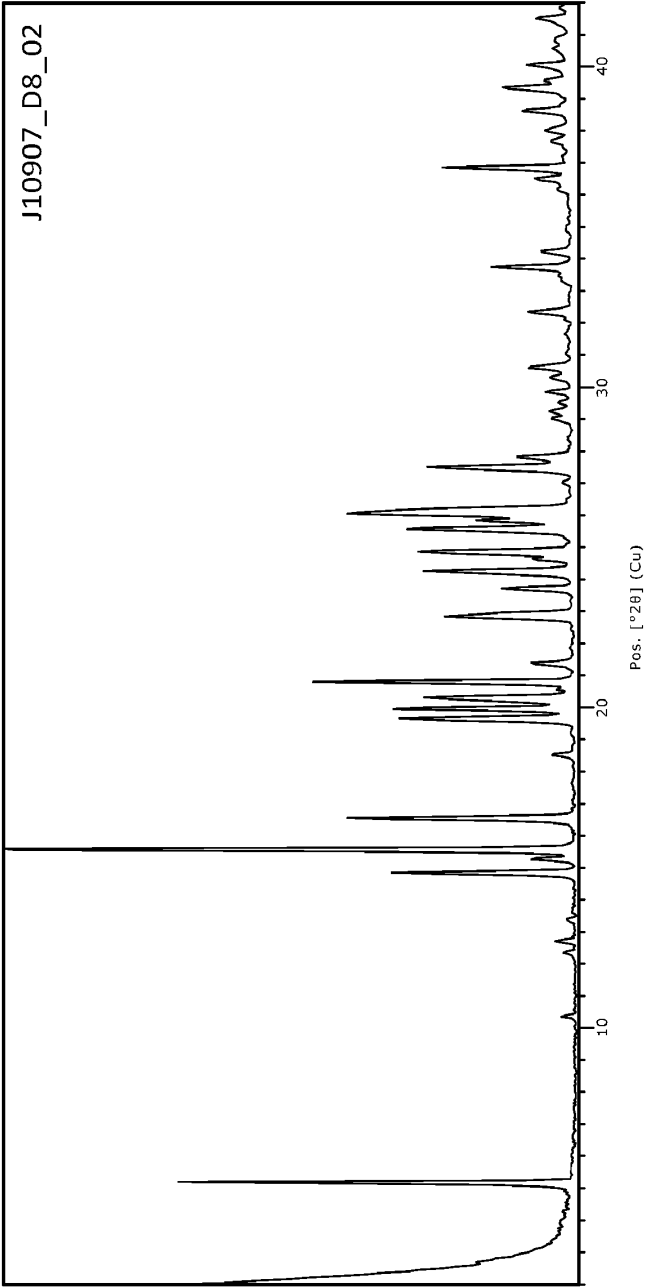


Fig. 2A

XRPD of PP-001 Form B

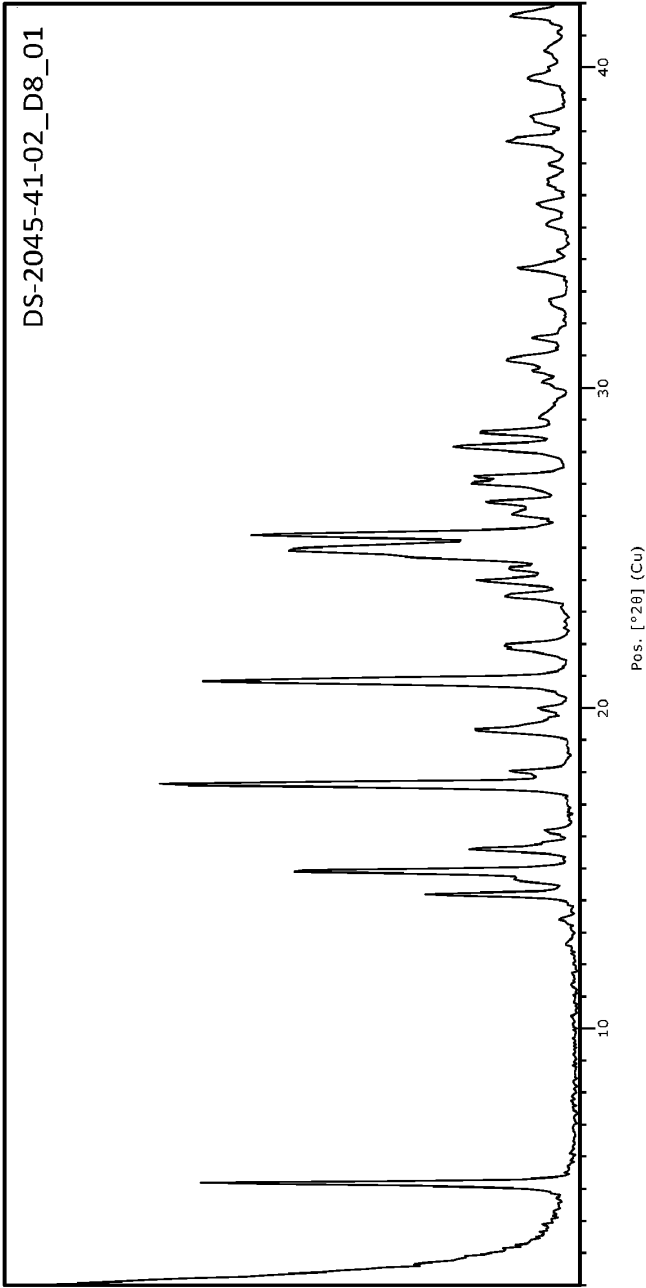


Fig. 2B

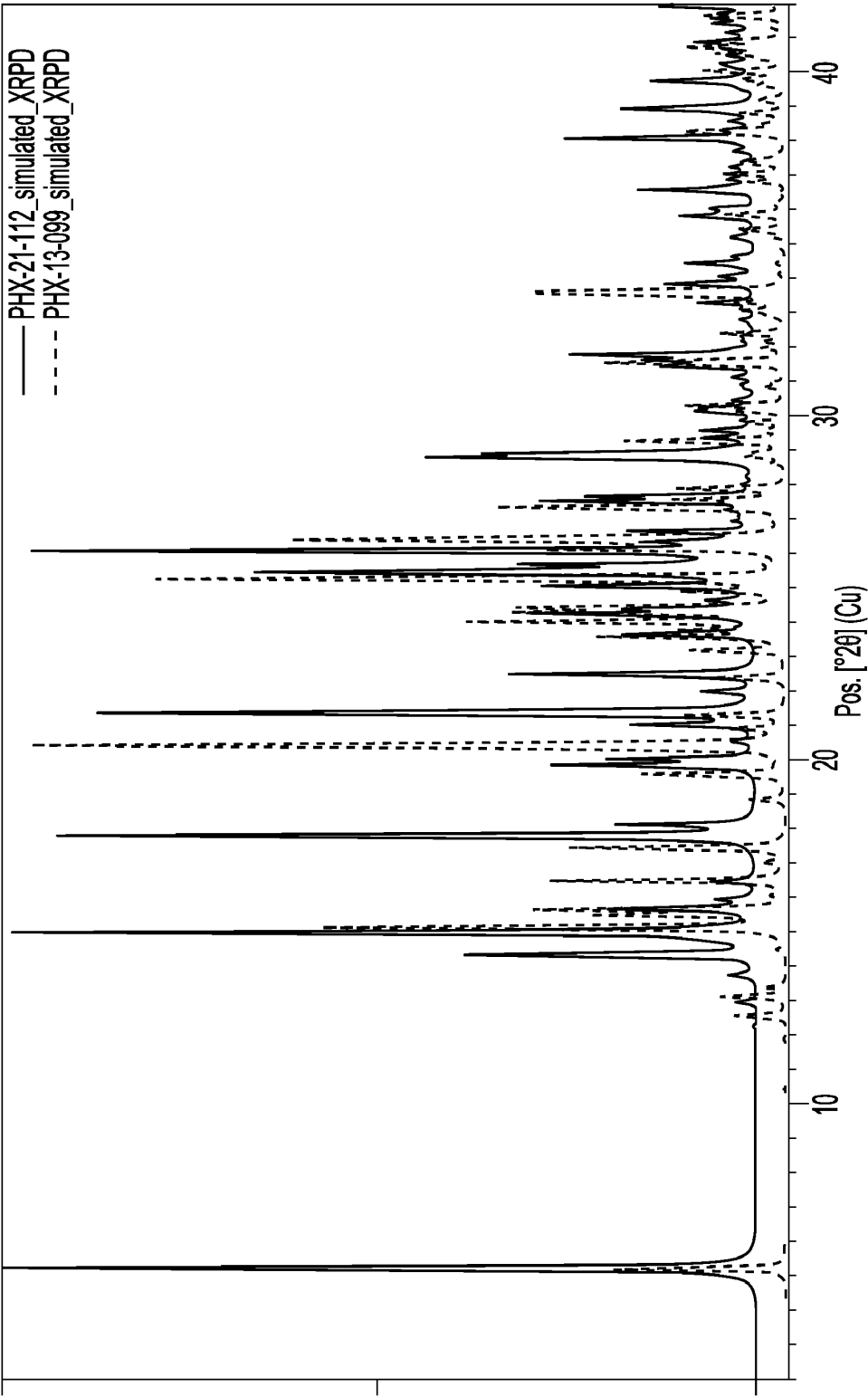
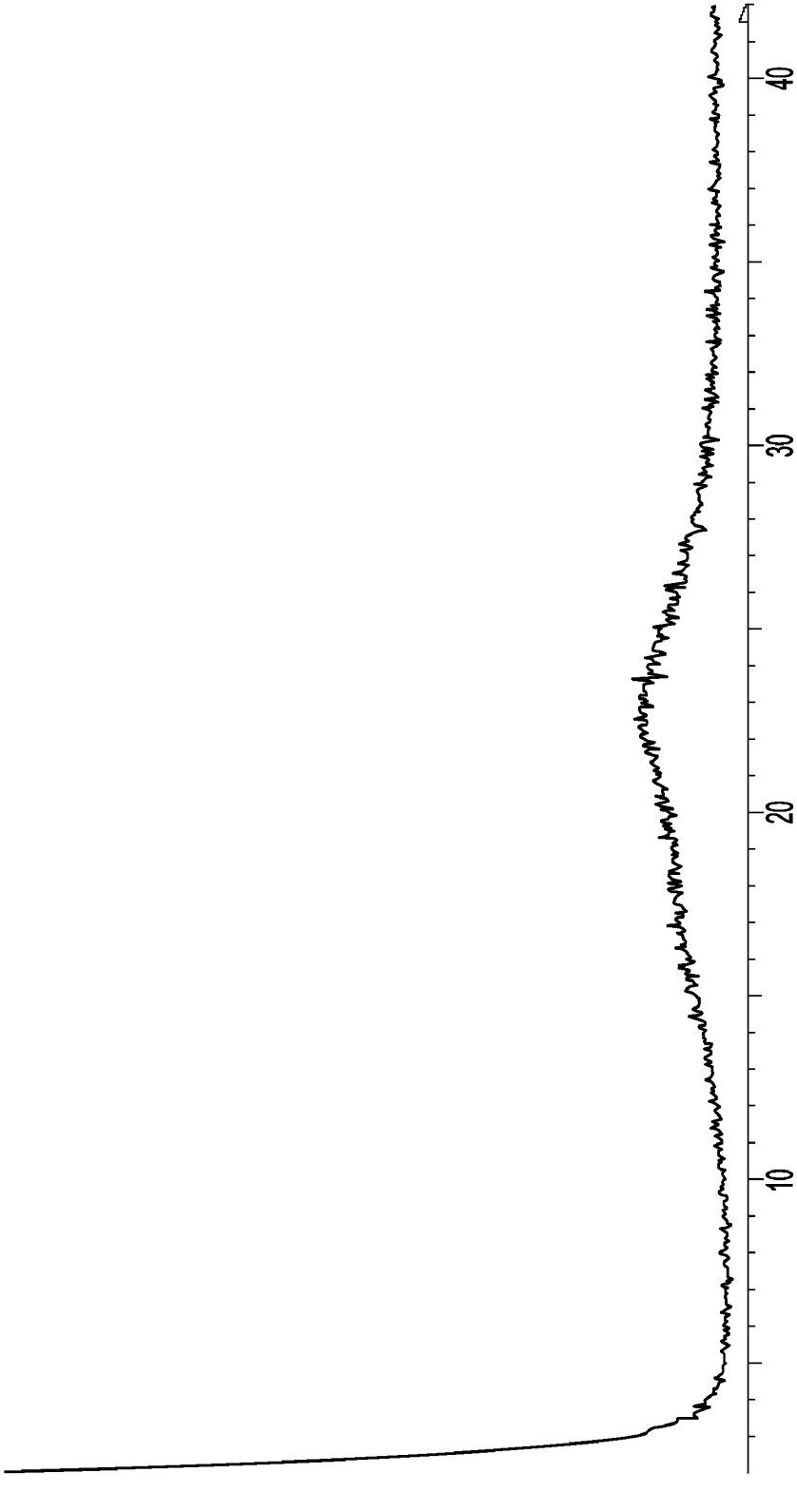


Fig. 2C

XRPD of amorphous PP-001



2-Theta - Scale

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Fig. 2D

Solubility Assessment of PP-001 Form A, part 1

Sample ID	Solvent	Vol					Obs.	Obs. At 50°C	Treatment
		5	10	20	30	50	80		
DS-2045-08-01	n-Heptane	X	X	X	X	X	X	Suspension	Maturation Cycling (RT/50°C)
DS-2045-08-02	Diethyl ether	X	X	X	X	X	X	Not Run	Maturation at RT
DS-2045-08-03	Propyl acetate	X	X	X	X	P	✓	N/A	Cool to 5°C
DS-2045-08-04	Ethyl acetate	X	X	X	X	✓	-	N/A	Cool to 5°C
DS-2045-08-05	Isopropyl acetate	X	X	X	X	P	✓	N/A	Cool to 5°C
DS-2045-08-06	MIBK	X	X	X	P	✓	-	N/A	Cool to 5°C
DS-2045-08-07	2-Propanol	X	X	X	X	P	P*	Clear Solution	Cool to 5°C
DS-2045-08-08	MEK	X	X	✓	-	-	-	N/A	Cool to 5°C
DS-2045-08-09	1-Propanol	X	X	X	X	P	P*	Clear Solution	Cool to 5°C
DS-2045-08-10	Acetone	X	X	✓	-	-	-	N/A	Cool to 5°C
DS-2045-08-11	Ethanol	X	X	X	X	✓	-	N/A	Cool to 5°C
DS-2045-08-12	Dimethyl sulfoxide	✓	-	-	-	-	-	N/A	Antisolvent (H ₂ O)
DS-2045-08-13	Acetonitrile	X	X	X	X	X	X	Clear Solution	Cool to 5°C
DS-2045-08-14	Tert-Butylmethyl ether	X	X	X	X	P	✓	N/A	Cool to 5°C
Key: X = suspension, ✓ = Clear solution, P = Partial Dissolution, P* : Clear solution, but some particulates noted									

Fig. 3A

Solubility Assessment of PP-001 Form A, part 2

Sample ID	Solvent	Vol						Obs.	Obs. At 50°C	Treatment
		5	10	20	30	50	80			
DS-2045-08-15	1,4-Dioxane	X	√	-	-	-	-	Clear solution	N/A	Evap at RT
DS-2045-08-16	Toluene	X	X	X	X	X	X	Suspension	Suspension	Maturation cycling (RT/50°C)
DS-2045-08-17	Chloroform	X	X	X	X	X	X	Suspension	Suspension	Maturation cycling (RT/50°C)
DS-2045-08-18	Tetrahydrofuran	√	-	-	-	-	-	Solution	N/A	Cool to 5°C
DS-2045-08-19	Methanol	X	X	X	X	P	√	Clear solution	N/A	Cool to 5°C
DS-2045-08-20	Water	X	X	X	X	X	X	Suspension	Suspension	Maturation cycling (RT/50°C)
DS-2045-08-21	Methanol: Water (3%)	X	X	X	X	X	X	Clear Solution, small particulates	Clear Solution	Cool to 5°C
DS-2045-08-22	Methanol: Water (5%)	X	X	X	X	X	X	Suspension	Clear Solution	Cool to 5°C
DS-2045-08-23	Ethanol: Water (5%)	X	X	X	X	X	X	Clear Solution, small particulates	Clear Solution	Cool to 5°C
DS-2045-08-24	IPA: Water (5%)	X	X	X	X	X	X	Clear Solution, small particulates	Clear Solution	Cool to 5°C
DS-2045-08-25	Acetone: Water (5%)	X	√	-	-	-	-	Clear Solution	N/A	Cool to 5°C
DS-2045-08-26	Acetone: Water (10%)	X	√	-	-	-	-	Clear Solution	N/A	Cool to 5°C
DS-2045-08-27	IPA: Water (25%)	X	X	X	X	X	X	Suspension	Clear Solution	Cool to 5°C
DS-2045-08-28	THF: Water (10%)	√	-	-	-	-	-	Clear Solution	N/A	Cool to 5°C
Key: X = suspension, √ = Clear solution, P = Partial Dissolution, P*: Clear solution, but some particulates noted										

Fig. 3B

Results from the polymorph screen of PP-001, part 1

Sample ID	Solvent	Obs. After Treatment	Further Treatment	Obs. After Treatment	XRPD (W/EMP)	XRPD (D/EMP)
DS-2045-08-01	n-Heptane	Suspension	N/A	N/A	Form A	N/A
DS-2045-08-02	Diethyl ether	Suspension	N/A	N/A	Form A	N/A
DS-2045-08-03	Propyl acetate	Solution	Evap at RT	Crystalline powder	N/A	Form A
DS-2045-08-04	Ethyl acetate	Solution	Evap at RT	Rectangular single crystals (small)	N/A	Form A
DS-2045-08-05	Isopropyl acetate	Solution	Evap at RT	Crystalline powder	N/A	Form B
DS-2045-08-06	MIBK	Solution	Evap at RT	Crystalline powder	N/A	Form A
DS-2045-08-07	2-Propanol	Solution	Evap at RT	Rectangular single crystals (small)	N/A	Form A
DS-2045-08-08	MEK	Solution	Evap at RT	Rectangular Needles + Dendrites Structures	N/A	Form A
DS-2045-08-09	1-Propanol	Solution	Evap at RT	Rectangular single crystals	N/A	Form A
DS-2045-08-10	Acetone	Suspension	Hold at 5°C	Thin Suspension	Insufficient material	N/A
DS-2045-08-11	Ethanol	Solution	Evap at RT	Rectangular powder (needle-like)	N/A	Form A
DS-2045-08-12	Dimethyl sulfoxide	Thin Suspension	N/A	N/A	Amorphous	N/A
DS-2045-08-13	Acetonitrile	Suspension	Hold at 5°C	Suspension	Form A	N/A
DS-2045-08-14	<i>Tert</i> -Butylmethyl ether	Solution	Evap at RT	Clumped powder + dendrite structures	N/A	Form B
Key: Evap = Slow evaporation, W = Wet, D = Dry						

Fig. 4A

Results from the polymorph screen of PP-001, part 2

Sample ID	Solvent	Obs. After Treatment	Further Treatment	Obs. After Treatment	Obs. After Treatment	XRPD (W/EMP)	XRPD (D/EMP)
DS-2045-08-15	1,4-Dioxane	N/A	N/A	N/A	Clumped powder	Form B	Form B
DS-2045-08-16	Toluene	Suspension	N/A	Suspension	N/A	Form A	N/A
DS-2045-08-17	Chloroform	Suspension	N/A	Suspension	N/A	Form A	N/A
DS-2045-08-18	Tetrahydrofuran	Solution	Evap at RT	Solution	Clumped powder	N/A	Form B
DS-2045-08-19	Methanol	Solution	Evap at RT	Solution	Rectangular single crystals (large)	N/a	Form A
DS-2045-08-20	Water	Suspension	N/A	Suspension	N/A	Form A	N/A
DS-2045-08-21	Methanol: Water (3%)	Solution*	Hold at 5°C	Solution*	Thin Suspension	Insufficient material	N/A
DS-2045-08-22	Methanol: Water (5%)	Suspension	Hold at 5°C	Suspension	Suspension	Form A	N/A
DS-2045-08-23	Ethanol: Water (5%)	Solution	Evap at RT	Solution	Rectangular single crystals (small)	N/A	Form A
DS-2045-08-24	IPA: Water (5%)	Solution	Evap at RT	Solution	Rectangular single crystals (large)	N/A	Form A
DS-2045-08-25	Acetone: Water (5%)	Solution	Evap at RT	Solution	Crystalline powder + dendrite structures	N/A	Form A
DS-2045-08-26	Acetone: Water (10%)	Solution	Evap at RT	Solution	Crystalline powder	N/A	Form A + Form B
DS-2045-08-27	IPA: Water (25%)	Suspension	Hold at 5°C	Suspension	Suspension	Form A	N/A
DS-2045-08-28	THF: Water (10%)	Solution	Evap at RT	Solution	Clumped powder	N/A	Form B
Key: Evap = Slow evaporation, W = Wet, D = Dry							

Fig. 4B

Summary of result of solubility screen prior to lyophilization

Sample ID	Solvent	Vol					Obs.	Treatment	Obs. After Treatment	XRPD (Wet)	XRPD (DRY)
		5	10	20	30	40	60				
DS-2045-09-01	THF:Water (70:30)	P	P	√	-	-	-	Clear Solution	White Powder	N/A	Amorphous
DS-2045-09-02	ACN:Water (1:1)	X	X	X	X	X	X	Suspension	Suspension	Form A	N/A
DS-2045-09-03	t-BuOH	X	X	P	P	P	P	Opaque Solution	Solution	N/A	Form B*
DS-2045-09-04	DCM	X	X	X	X	X	X	Suspension	Suspension	Form A	N/A
DS-2045-09-05	1,4-Dioxane	-	P	P	√	-	-	Clear Solution	White Powder	N/A	Amorphous
DS-2045-09-06	t-BuOH/Water (1:1)	X	X	X	P	X	X	Suspension	Suspension	Form A	N/A
Key: X = suspension, √ = Clear solution, P = Partial Dissolution * Solution subject to slow evaporation at RT until dry											

Fig. 5

Observations and results from the maturation of amorphous material at 5 °C, part 1

Sample ID	Solvent	Obs. After Treatment	Further Treatment	Obs. After Treatment	XRPD (W)	XRPD (D)
DS-2045-21-01	n-Heptane	Swollen Solid/Gel	Additional Maturation (1 Day)	Swollen Solid/Gel	Pattern 3(WD)	Pattern 3
DS-2045-21-02	Diethyl ether	Suspension	N/A	N/A	Form B	N/A
DS-2045-21-03	Propyl acetate	Suspension	N/A	N/A	Form B	N/A
DS-2045-21-04	Ethyl acetate	Suspension	N/A	N/A	Form A	N/A
DS-2045-21-05	Isopropyl acetate	Suspension	N/A	N/A	Form B	N/A
DS-2045-21-06	MIBK	Suspension	N/A	N/A	Form A	N/A
DS-2045-21-07	2-Propanol	Suspension	N/A	N/A	Form A	N/A
DS-2045-21-08	MEK	Suspension	N/A	N/A	Form A	N/A
DS-2045-21-09	1-Propanol	Suspension	N/A	N/A	Form A	N/A
DS-2045-21-10	Acetone	Suspension	N/A	N/A	Form A	N/A
DS-2045-21-11	Ethanol	Suspension	N/A	N/A	Form A	N/A
DS-2045-21-12	DMSO	Froze	Addition of 1500 µl of MeCN (10 equiv.)	Solution	No further work	N/A
DS-2045-21-13	Acetonitrile	Suspension	N/A	N/A	Form A	N/A
DS-2045-21-14	TBME	Suspension	N/A	N/A	Form B	N/A
Key: W = wet, D = dry, WD = weak diffraction						

Fig. 6A

Observations and results from the maturation of amorphous material at 5°C, part 2

Sample ID	Solvent	Obs. After Treatment	Further Treatment	Obs. After Treatment	XRPD (W)
DS-2045-21-15	1,4-Dioxane	Partially Froze / Slurry	N/A	N/A	Form B
DS-2045-21-16	Toluene	Suspension	N/A	N/A	Form B
DS-2045-21-17	Chloroform	Suspension	N/A	N/A	Form B
DS-2045-21-18	THF / Heptane (1:1)	Suspension	N/A	N/A	Form B
DS-2045-21-19	Methanol	Suspension	N/A	N/A	Form A
DS-2045-21-20	Water	Suspension	N/A	N/A	Form A (WD)
DS-2045-21-21	Methanol: water (3%)	Suspension	N/A	N/A	Form A
DS-2045-21-22	Methanol: water (5%)	Suspension	N/A	N/A	Form A
DS-2045-21-23	Ethanol: water (5%)	Suspension	N/A	N/A	Form A
DS-2045-21-24	IPA: Water (5%)	Suspension	N/A	N/A	Form B
DS-2045-21-25	Acetone: Water (5%)	Suspension	N/A	N/A	Form A
DS-2045-21-26	Acetone: Water (10%)	Suspension	N/A	N/A	Form A
DS-2045-21-27	IPA: Water (25%)	Suspension	N/A	N/A	Form B
DS-2045-21-28	THF: Water (50%)	Clear Solution + Gummy Solid	N/A	N/A	Form A
Key: W = wet, WD = weak diffraction					

Fig. 6B

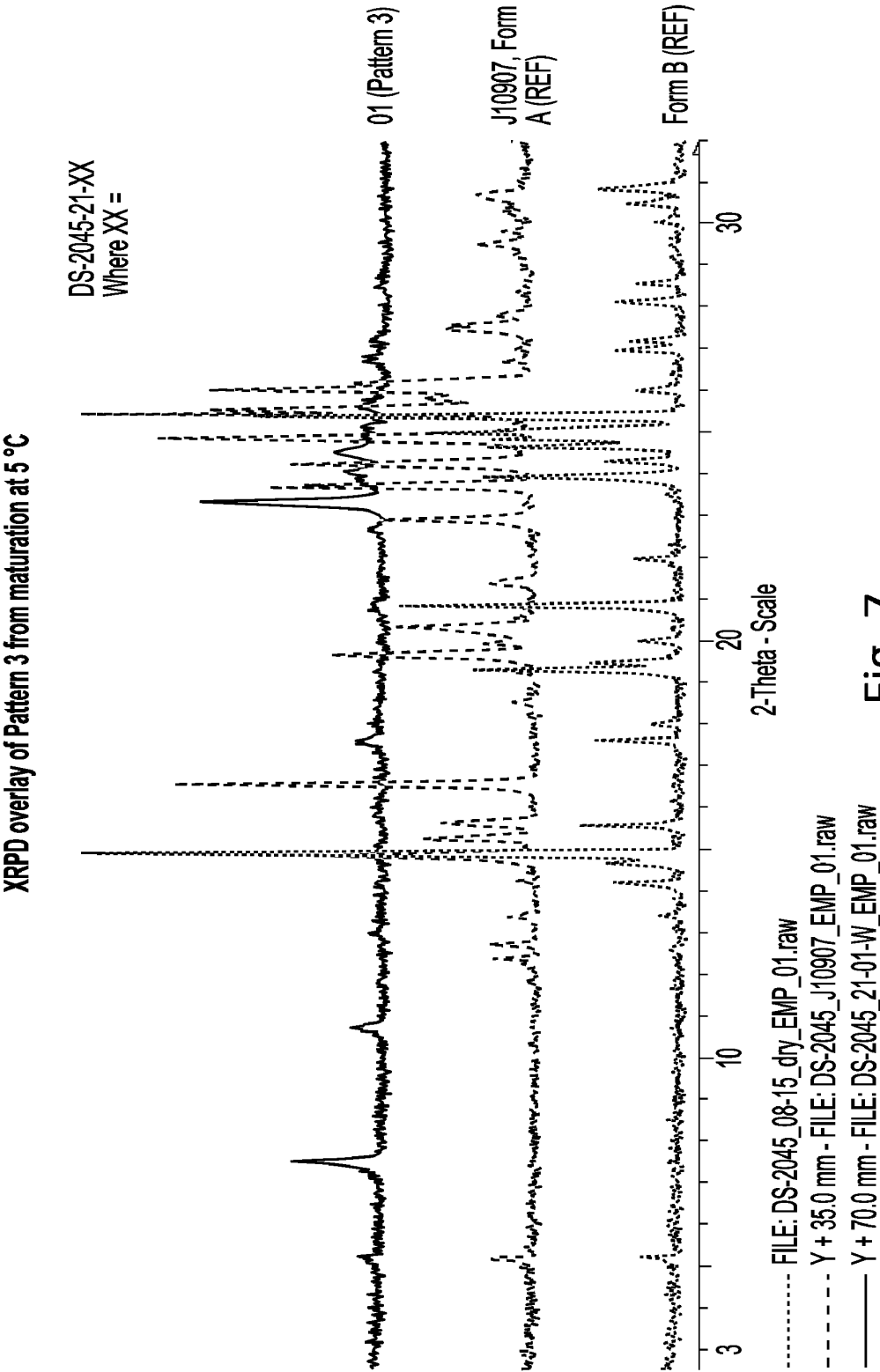


Fig. 7

Observations and results from the maturation cycling of amorphous material, part 1

Sample ID	Solvent	Obs. After Treatment	Further Treatment	XRPD (W)
DS-2045-24-01	n-Heptane	Swollen Solid/Gel	N/A	Form B
DS-2045-24-02	Diethyl ether	Not Run	N/A	N/A
DS-2045-24-03	Propyl acetate	Suspension	N/A	Form A
DS-2045-24-04	Ethyl acetate	Clear solution + solid on vial walls	N/A	Form A
DS-2045-24-05	Isopropyl acetate	Suspension	N/A	Form A
DS-2045-24-06	MIBK	Suspension	N/A	Form A
DS-2045-24-07	2-Propanol	Suspension	N/A	Form A
DS-2045-24-08	MEK	Suspension	N/A	Form A
DS-2045-24-09	1-Propanol	Suspension	N/A	Form A
DS-2045-24-10	Acetone	Clear solution + solid on vial walls	N/A	Form A
DS-2045-24-11	Ethanol	Thin Suspension	N/A	Form A
DS-2045-24-12	DMSO / Water (1:1)	Suspension	N/A	Form A (WD)
DS-2045-24-13	Acetonitrile	Suspension	N/A	Form A
DS-2045-24-14	TBME	Suspension	N/A	Form B
Key: W = wet, WD = weak diffraction				

Fig. 8A

Observations and results from the maturation cycling of amorphous material, part 2

Sample ID	Solvent	Obs. After Treatment	Further Treatment	XRPD (W)
DS-2045-21-15	1,4-Dioxane / Heptane (1:1)	Suspension	N/A	Form A
DS-2045-21-16	Toluene	Suspension	N/A	Form B
DS-2045-21-17	Chloroform	Suspension	N/A	Form B
DS-2045-21-18	THF / Heptane (1:1)	Suspension	N/A	Form A
DS-2045-21-19	Methanol	Suspension	N/A	Form A
DS-2045-21-20	Water	Suspension	N/A	Form A
DS-2045-21-21	Methanol: water (3%)	Suspension	N/A	Form A
DS-2045-21-22	Methanol: water (5%)	Suspension	N/A	Form A
DS-2045-21-23	Ethanol: water (5%)	Suspension	N/A	Form A
DS-2045-21-24	IPA: Water (5%)	Suspension	N/A	Form A
DS-2045-21-25	Acetone: Water (5%)	Solution	150 µl of water added at 50°C	Form B
DS-2045-21-26	Acetone: Water (10%)	Thin Suspension	N/A	Form A
DS-2045-21-27	IPA: Water (25%)	Suspension	N/A	Form A
DS-2045-21-28	THF: Water (50%)	Suspension	N/A	Form A
Key: W = wet				

Fig. 8B

Observations and results from the maturation of amorphous material at 50 °C, part 1

Sample ID	Solvent	Obs. After Treatment	XRPD (W)
DS-2045-31-01	n-Heptane	Swollen Solid/Gel	Form B
DS-2045-31-02	Diethyl ether	Not Run	N/A
DS-2045-31-03	Propyl acetate	Solid on vial walls + solution	Form A
DS-2045-31-04	Ethyl acetate	Solid on vial walls + solution	Form A
DS-2045-31-05	Isopropyl acetate	Solid on vial walls + solution	Form B to Form A*
DS-2045-31-06	MIBK	Solid on vial walls + solution	Form A
DS-2045-31-07	2-Propanol	Suspension	Form A
DS-2045-31-08	MEK	Solid on vial walls + solution	Form A
DS-2045-31-09	1-Propanol	Solid on vial walls + solution	Form A
DS-2045-31-10	Acetone	Solid on vial walls + solution	Form A
DS-2045-31-11	Ethanol	Solid on vial walls + solution	Form A
DS-2045-31-12	DMSO / Water (1:1)	Suspension	Form A
DS-2045-31-13	Acetonitrile	Suspension	Form A
DS-2045-31-14	TBME	Solid on vial walls + solution	Form B
Key: W = wet * = *Isopropyl acetate sample transitioned to Form A between or on isolation			

Fig. 9A

Observations and results from the maturation of amorphous material at 50 °C, part 2

Sample ID	Solvent	Treatment	Obs. After Treatment	XRPD (A/EMP)	Further Treatment	XRPD (W/EMP)
DS-2045-31-15	1,4-Dioxane / Heptane (1:1)	Maturation (50°C)	Suspension	N/A	N/A	Form A
DS-2045-31-16	Toluene	Maturation (50°C)	Suspension	N/A	N/A	Form B
DS-2045-31-17	Chloroform	Maturation (50°C)	Suspension	N/A	N/A	Form A
DS-2045-31-18	THF /Heptane (1:1)	Maturation (50°C)	Suspension	N/A	N/A	Form A
DS-2045-31-19	Methanol	Maturation (50°C)	Solid on vial walls + solution	N/A	N/A	Form A
DS-2045-31-20	Water	Maturation (50°C)	Suspension	N/A	N/A	Form A
DS-2045-31-21	Methanol: water (3%)	Maturation (50°C)	Suspension	N/A	N/A	Form A
DS-2045-31-22	Methanol: water (5%)	Maturation (50°C)	Suspension	N/A	N/A	Form A
DS-2045-31-23	Ethanol: water (5%)	Maturation (50°C)	Suspension	N/A	N/A	Form A
DS-2045-31-24	IPA: Water (5%)	Maturation (50°C)	Solid on vial walls + solution	N/A	N/A	Form A
DS-2045-31-25	Acetone: Water (5%)	Antisolvent Addition* (50°C)	Suspension	Form B	Maturation (50°C)	Form A
DS-2045-31-26	Acetone: Water (10%)	Maturation (50°C)	Solution	N/A	450 µl of ACN added at RT	Form A
DS-2045-31-27	IPA: Water (13:5)	Maturation (50°C)	Suspension	N/A	N/A	Form A
DS-2045-31-28	THF: Water (50%)	Maturation (50°C)	Suspension	N/A	N/A	Form A
Key: A = aliquot, W = wet * = 150 µl of water added						

Fig. 9B

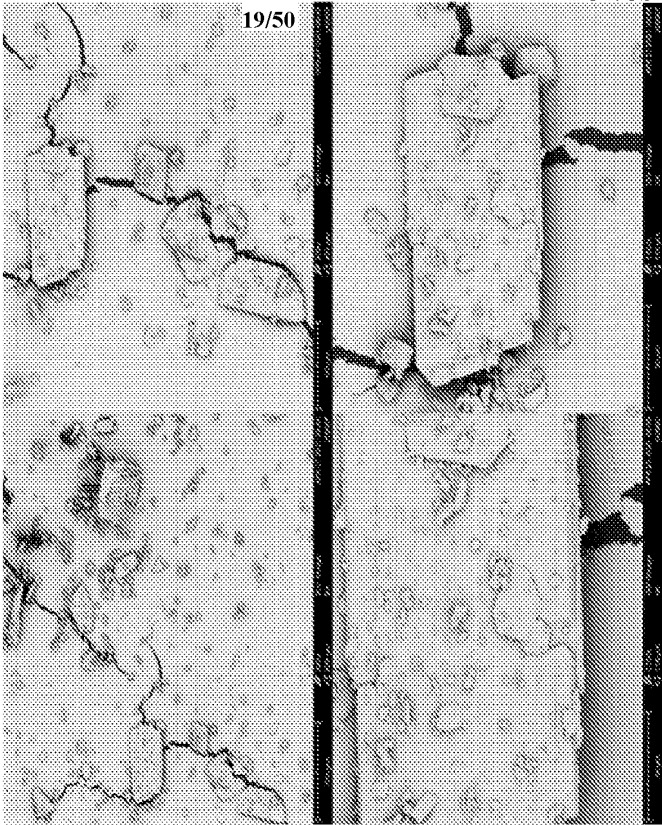
Observations and results from the antisolvent addition polymorph screen

Sample ID	Solvent (S) / Antisolvent (A)	Temp	Final Ratio (S:A)	Obs.	Aliquot 1 (1 hour)	Aliquot 2 (24 hours)	XRPD (Isolated)
DS-2045-32-01	1,4-Dioxane / Water	RT	1:1	Suspension	Form B	Form A	N/A
DS-2045-32-02	IPA / Water	50°C	1:2	Suspension	WD	N/A	Form B
DS-2045-32-03	Acetone /Water	RT	1:1	Suspension	Form B	Form A (WD)	Form A
DS-2045-32-04	THF / Water	RT	1:2	Suspension	Form B	Form A	Form A
DS-2045-32-05	MeOH / Water	30°C	1:3	Suspension	WD	Form A	Form A
DS-2045-32-06	Ethyl Acetate / Heptane	RT	1:3	Suspension	WD	WD	Form B
DS-2045-32-07	MEK / Heptane	RT	1:3	Suspension	WD	Form A (WD)	Form A
DS-2045-32-08	Acetone /Heptane	RT	1:3	Suspension	WD	Form A (WD)	Form A
DS-2045-32-09	THF / Heptane	RT	1:1	Suspension	Form B	Form B	Form B
DS-2045-32-10	IPA / Heptane	50°C	1:5	Solution*	N/A	N/A	Form B
DS-2045-32-11	Ethyl Acetate / Toluene	RT	1:5	Solution*	N/A	N/A	Form B
DS-2045-32-12	MEK / Toluene	RT	1:5	Solution*	N/A	N/A	Form B
DS-2045-32-13	Acetone / Toluene	RT	1:5	Solution*	N/A	N/A	Form B
DS-2045-32-14	THF / Toluene	RT	1:5	Solution*	N/A	N/A	Form B
DS-2045-32-15	MeOH / Toluene	30°C	1:5	Solution*	N/A	N/A	Form B

Key: WD = weak diffraction
* = Solution subjected to slow evaporation at RT

Fig. 10

B. Scanning Electron Microscopy (SEM) of PP-001 Form



A. Polarized Light Microscopy (PLM) of PP-001 Form A

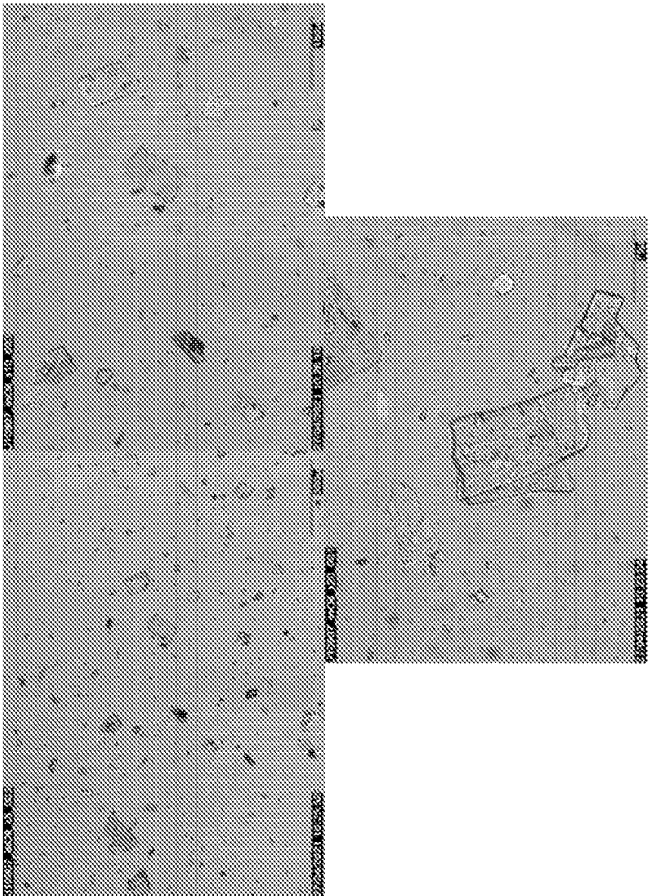


Fig. 11A-11B

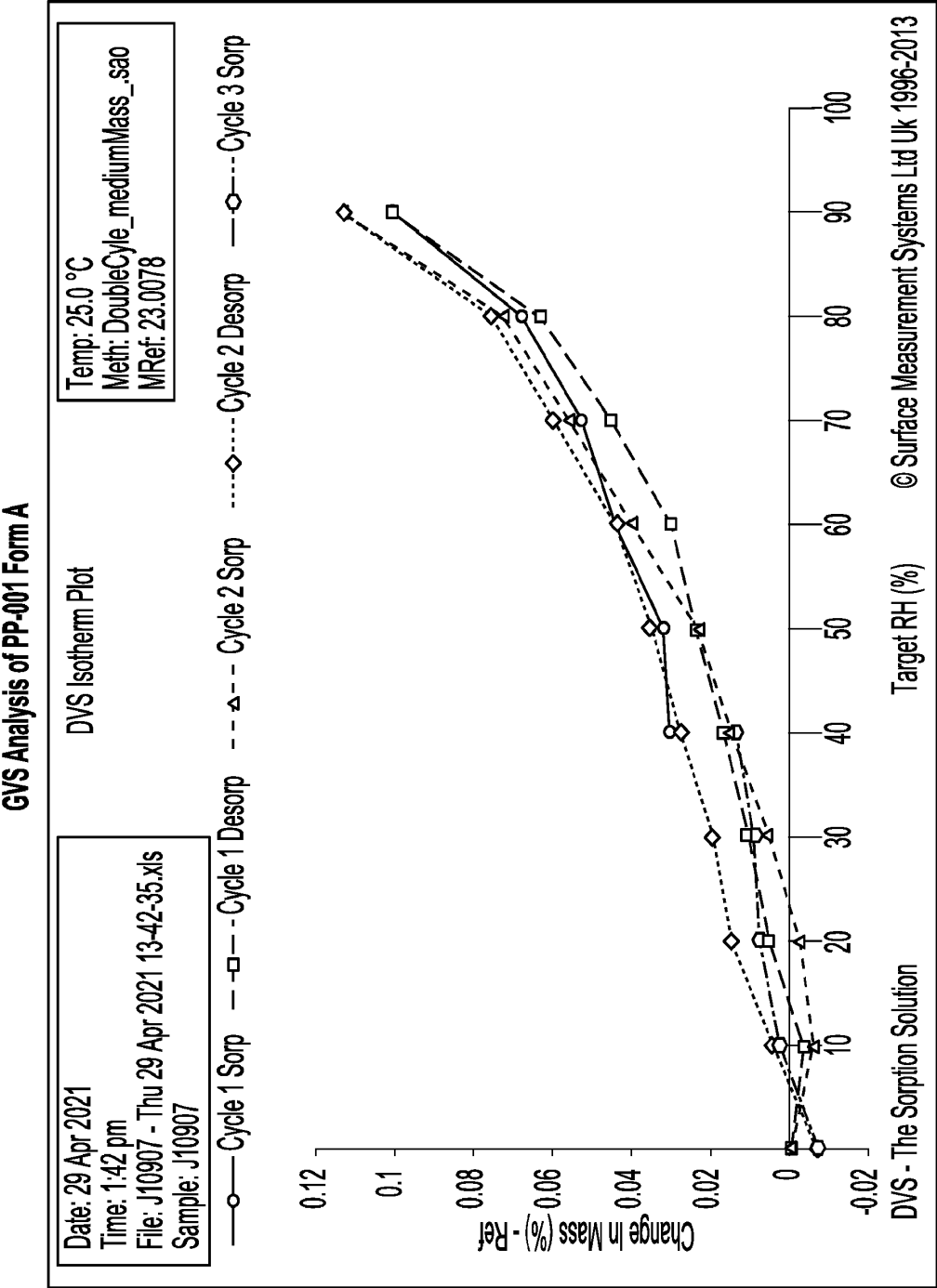


Fig. 12

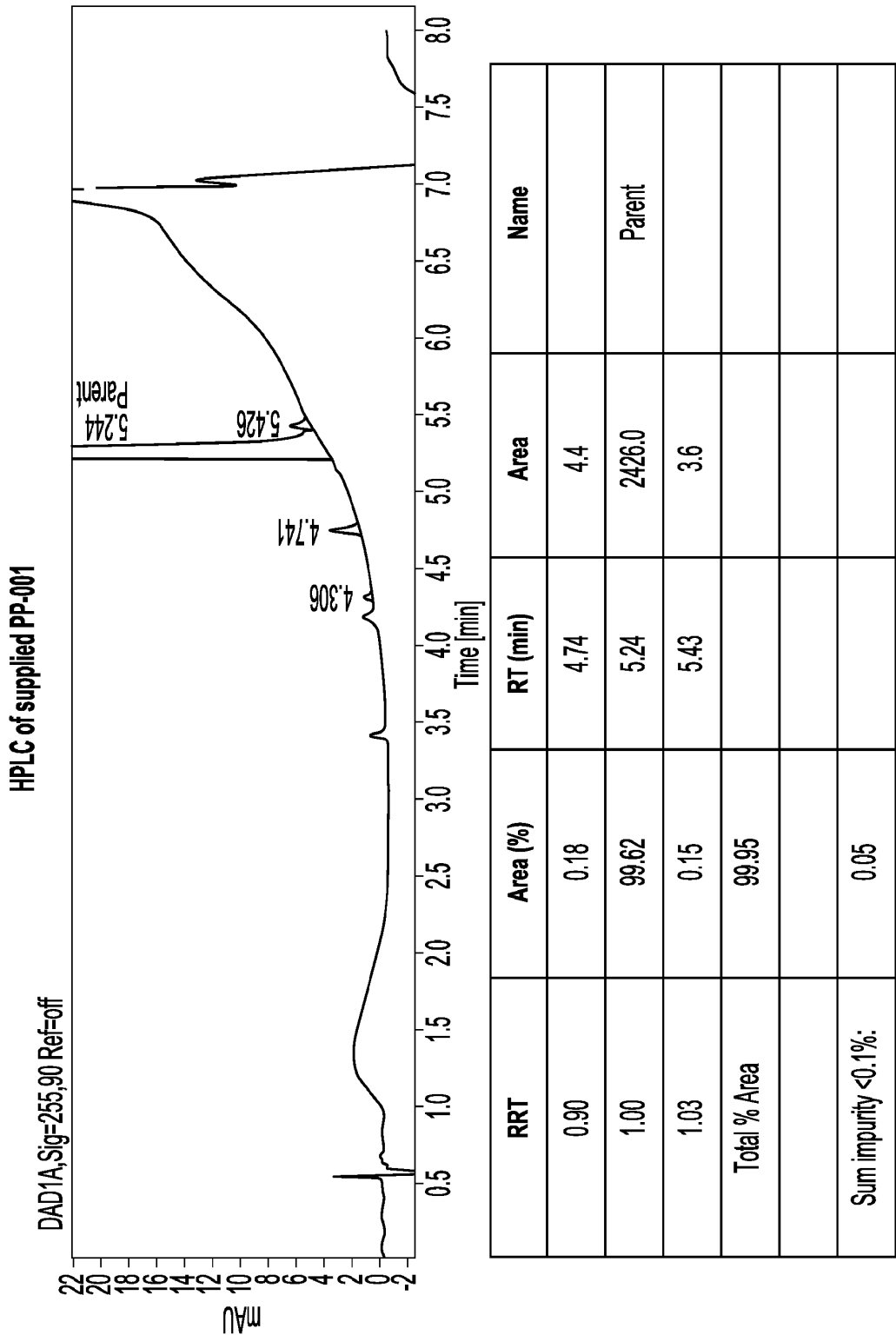
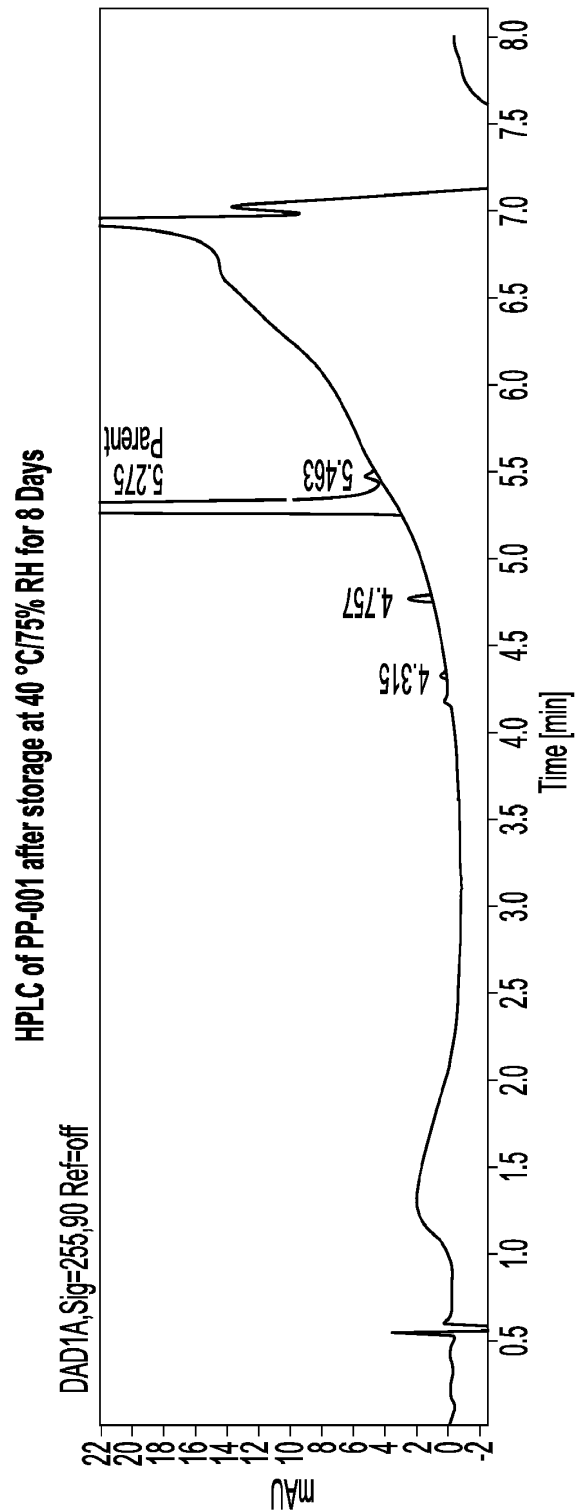
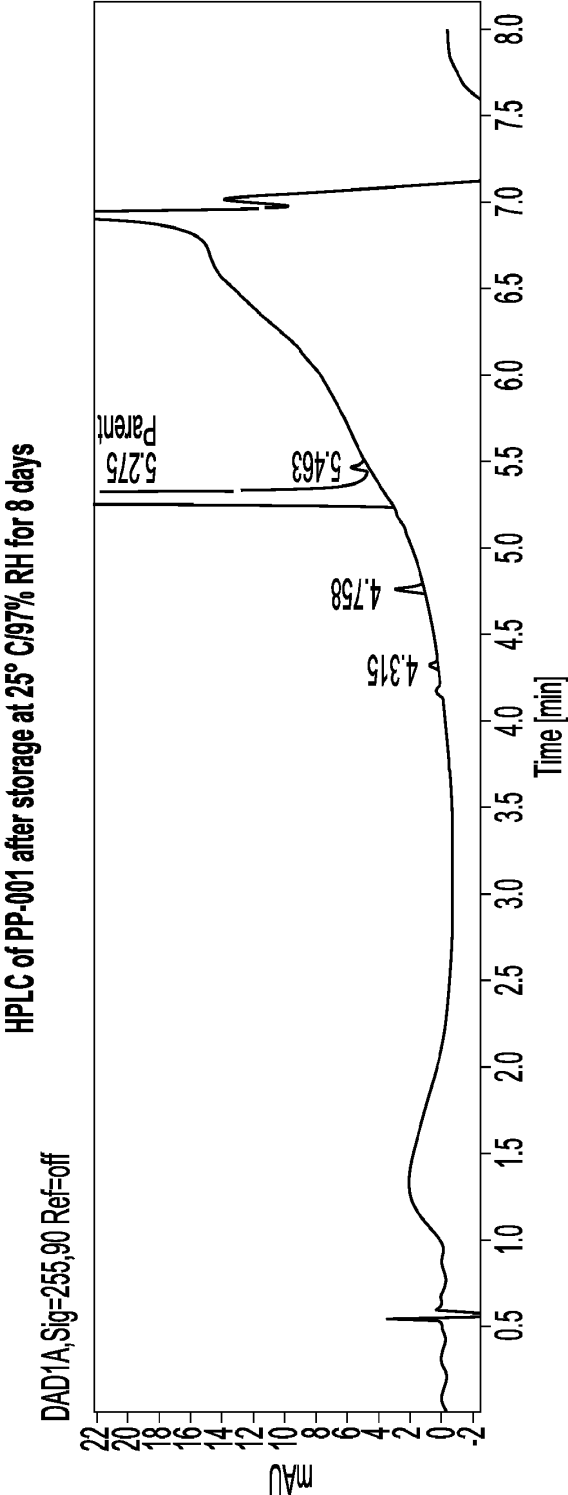


Fig. 12A



RRT	Area (%)	RT (min)	Area	Name
0.90	0.18	4.76	2.6	
1.00	99.64	5.28	1429.1	Parent
1.04	0.12	5.46	1.8	
Total % Area	99.95			
Sum impurity <0.1%:	0.05			

Fig. 12B



RRT	Area (%)	RT (min)	Area	Name
0.90	0.18	4.76	3.2	
1.00	99.63	5.28	1757.1	Parent
1.04	0.14	5.46	2.5	
Total % Area	99.95			
Sum impurity <0.1%:	0.05			

Fig. 12C

XRPD of supplied PP-001 and after storage at 25° C/75% RH for 8 and 30 days

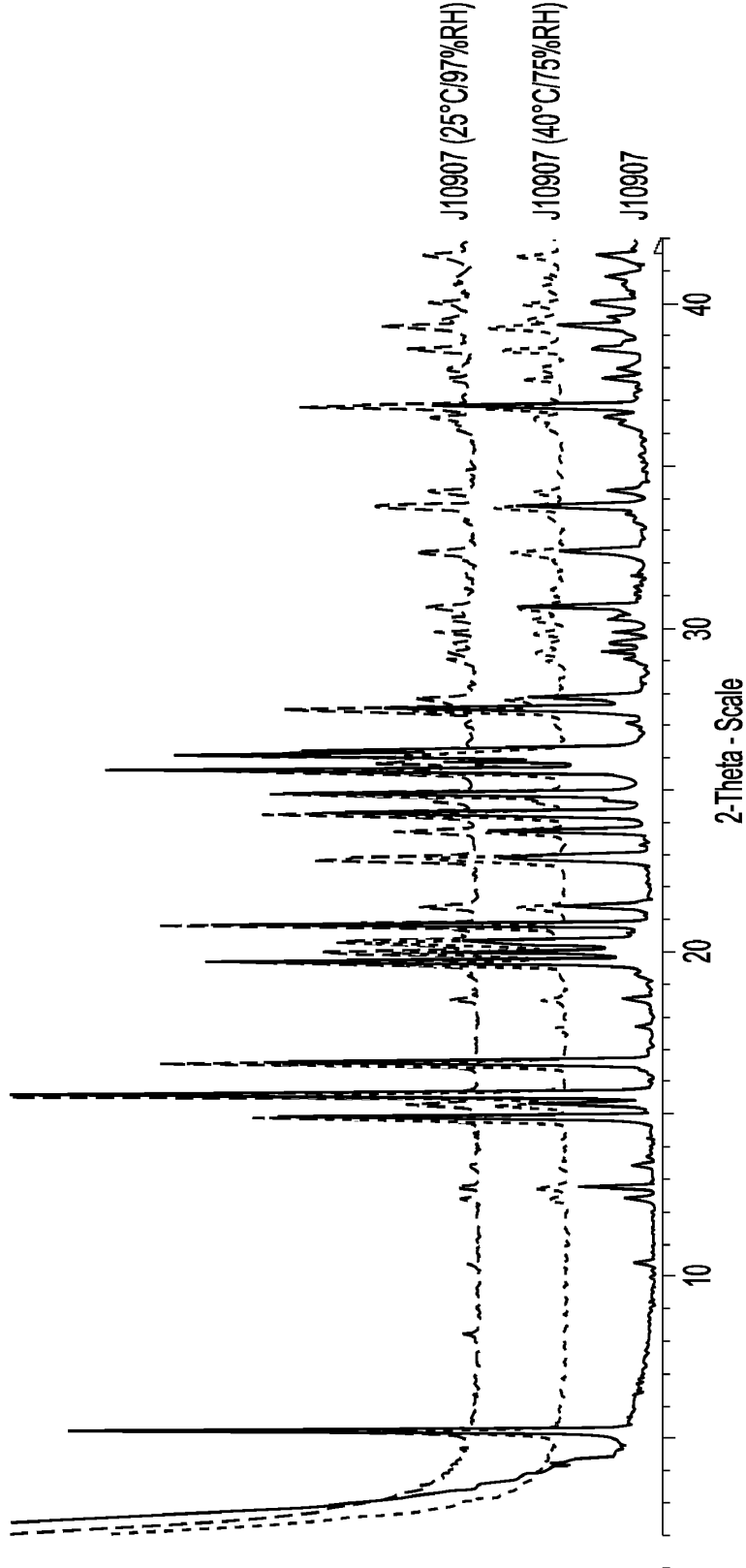
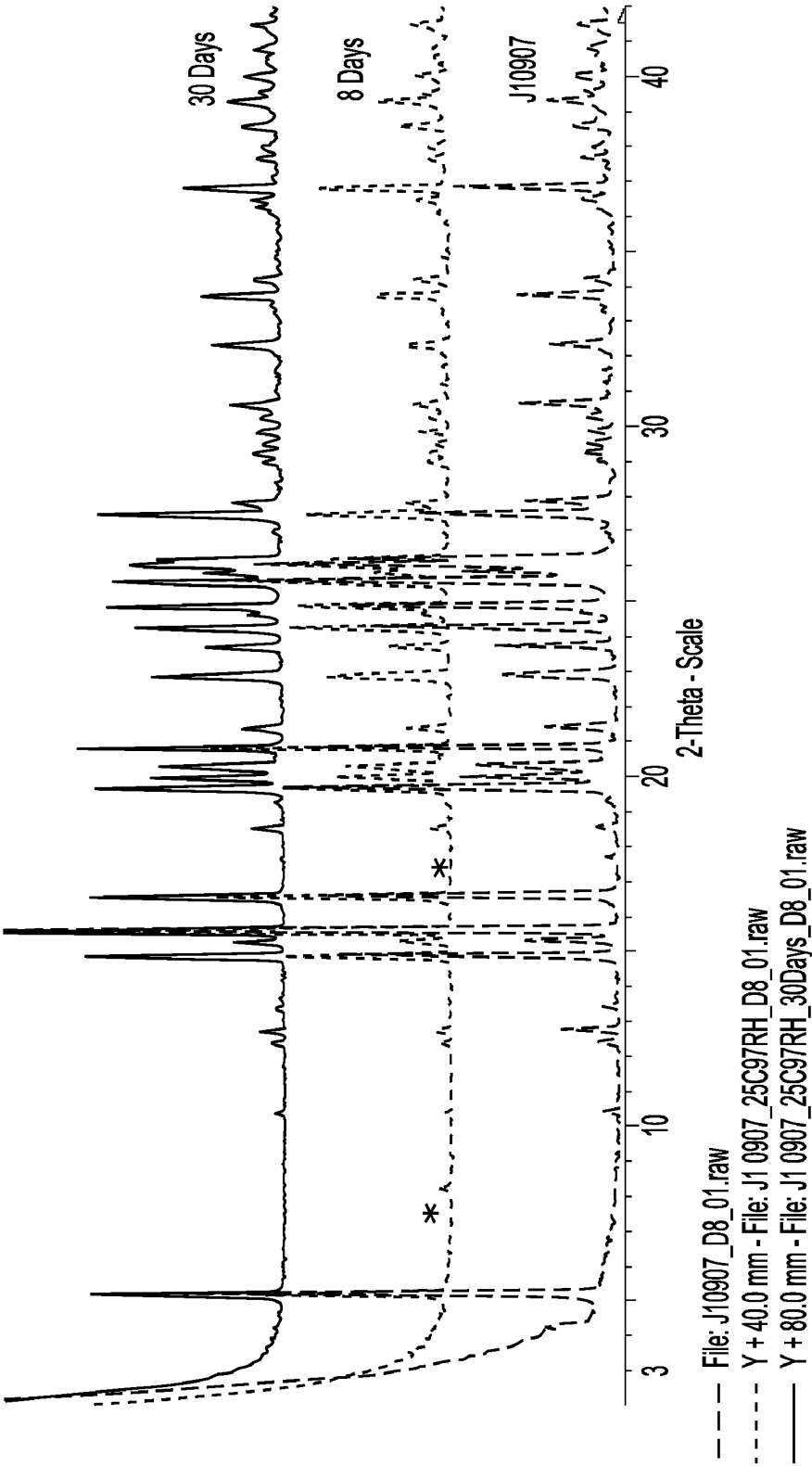


Fig. 13A

XRPD of supplied PP-001 Form A after storage at 25 °C/75% RH for 3 and 30 days



* = Observed peaks changes at 8 days

Fig. 13B

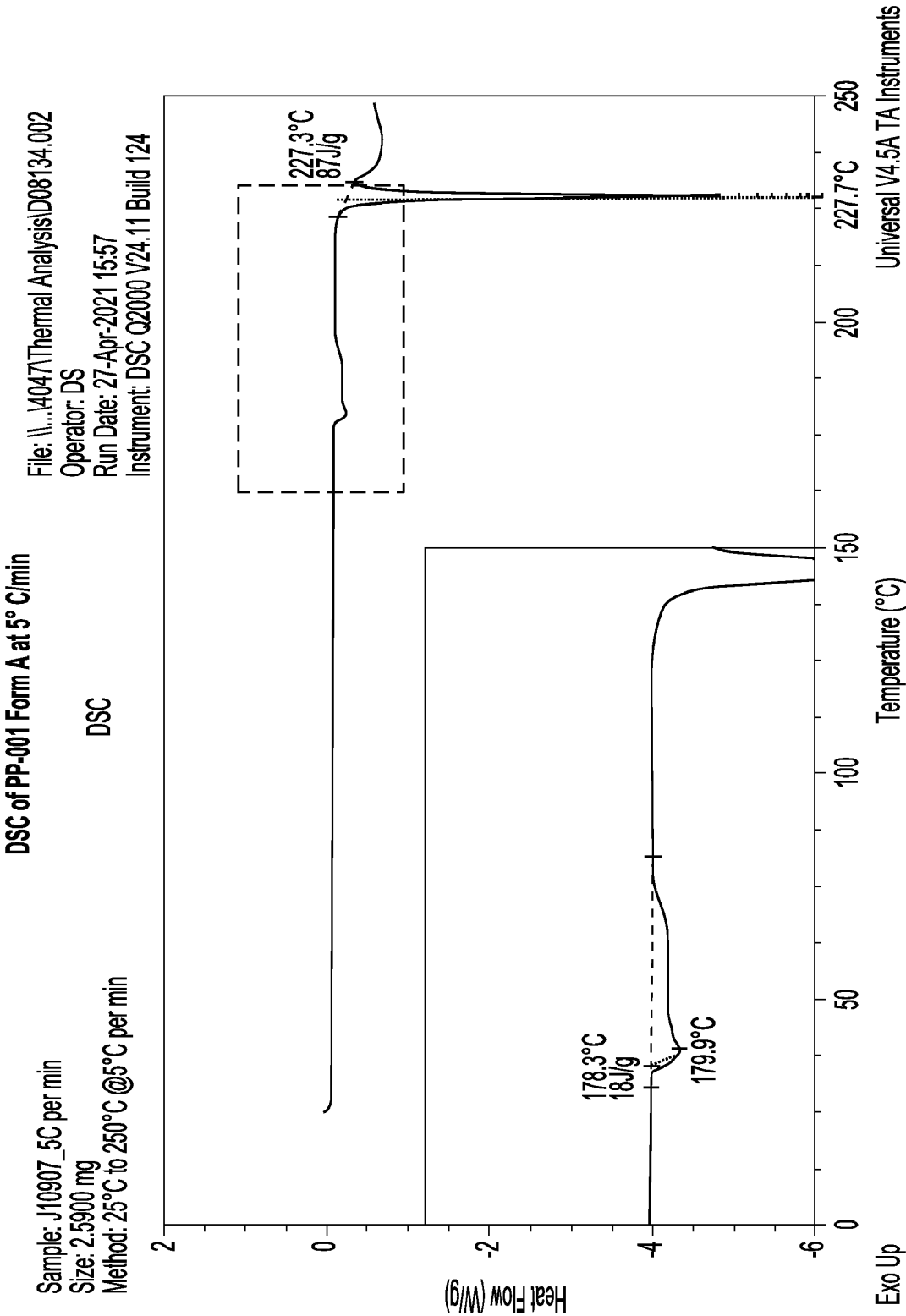


Fig. 14A

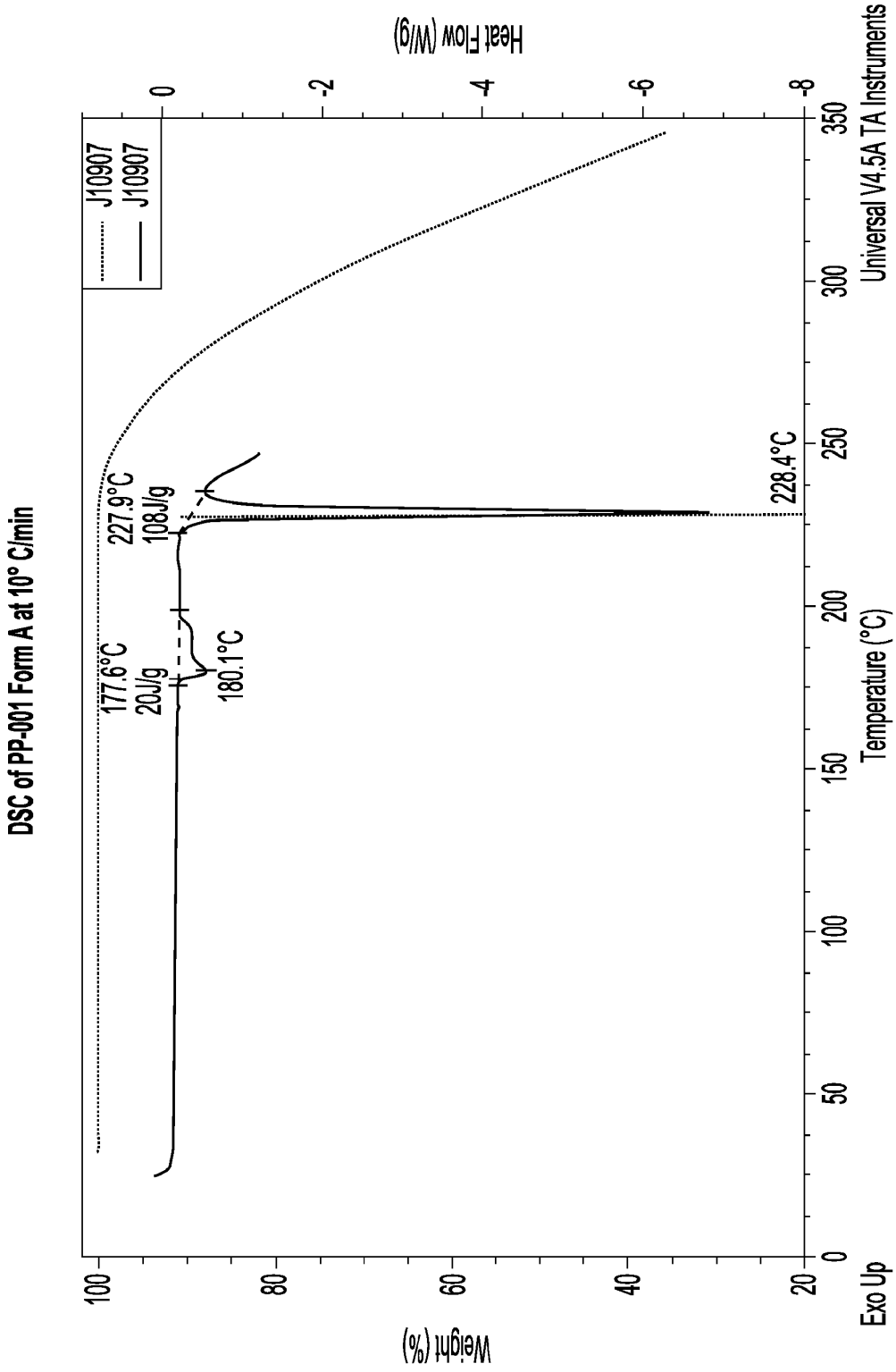


Fig. 14B

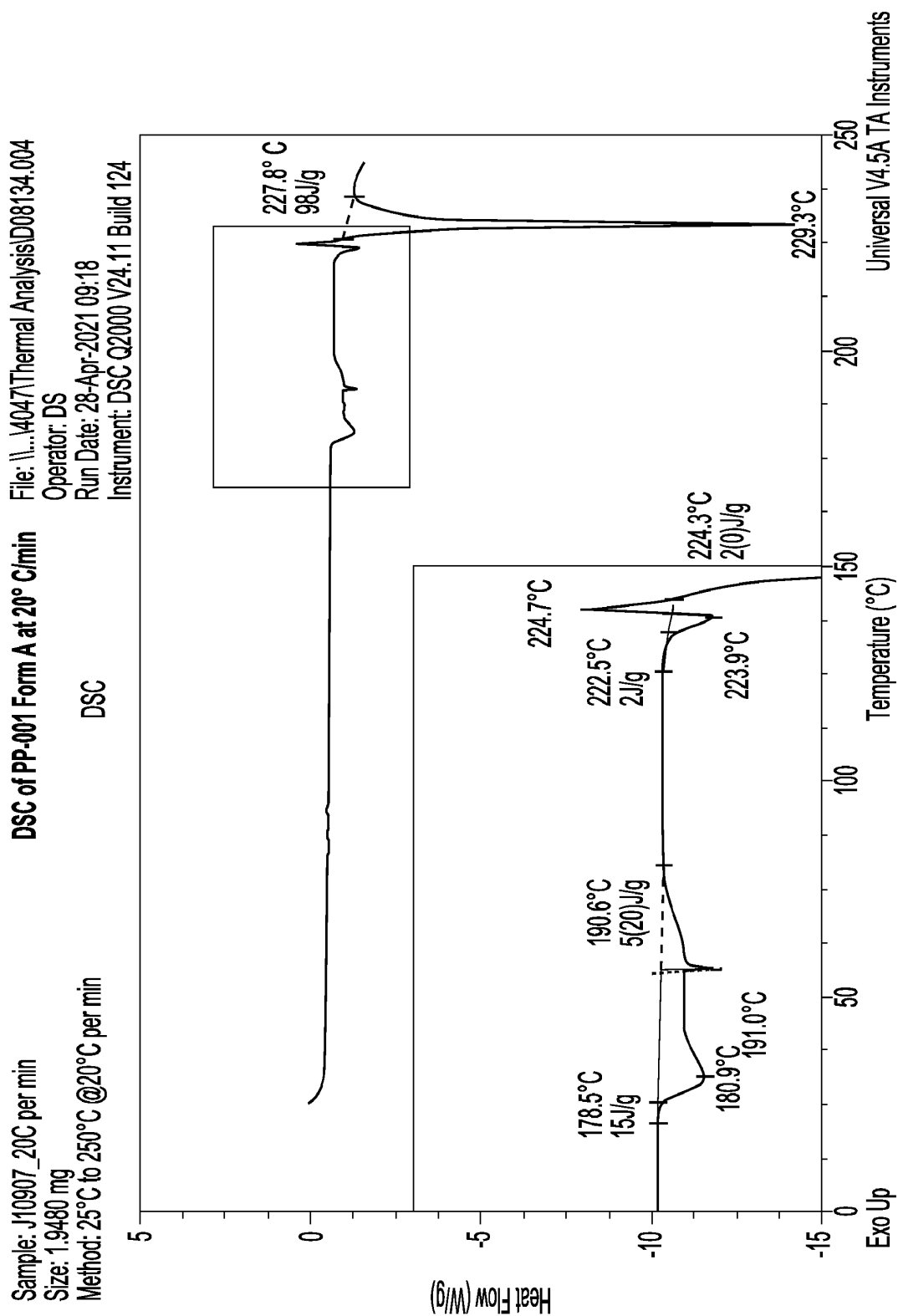
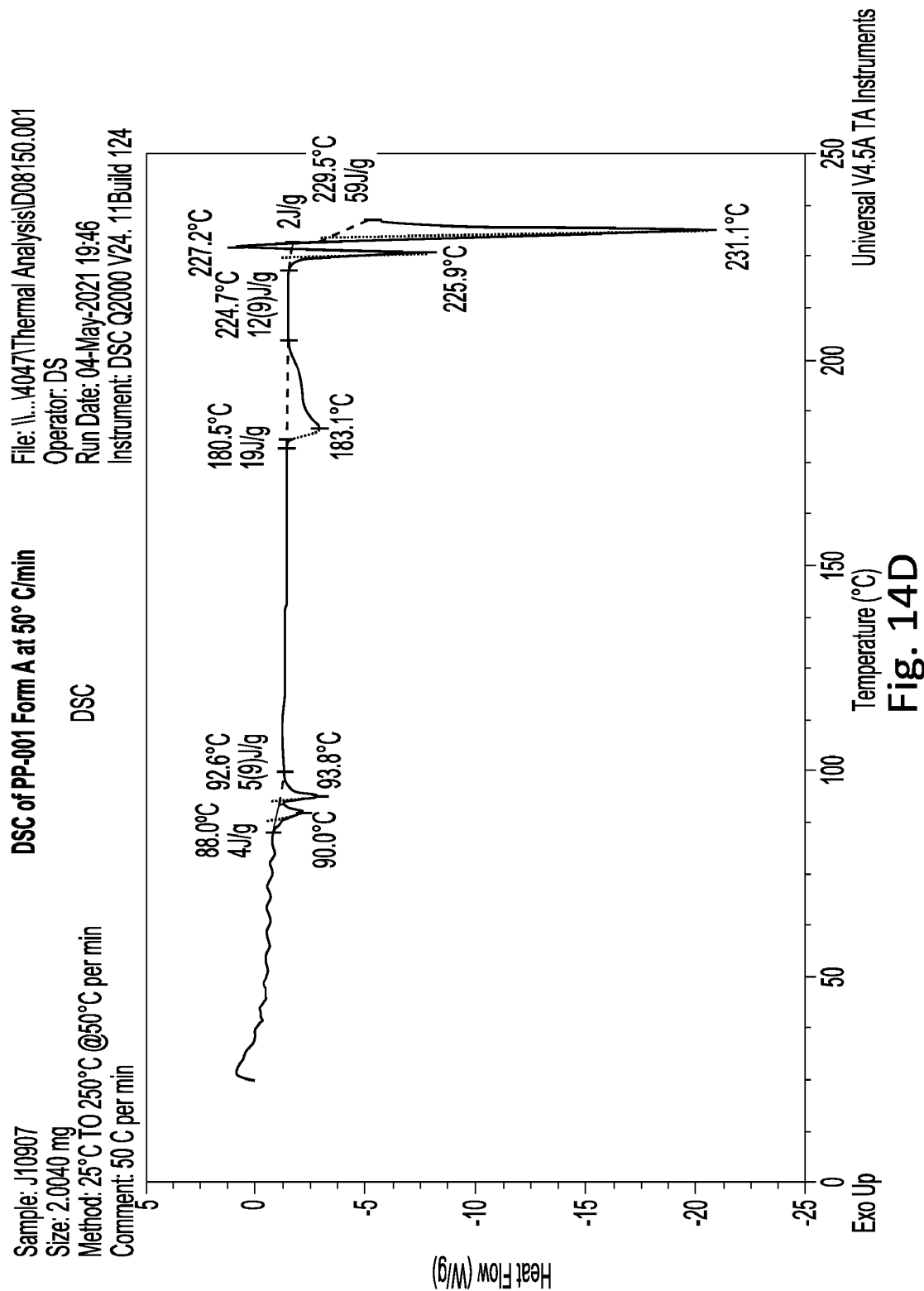


Fig. 14C



Sample: J10907_MeltQuench
Size: 3.6670 mg
Method: Melt_MDSC -50°C to 250°C @2°C

DSC

DSC melt/quench cool of PP-001 Form A (1/2)

File: \\...14047\Thermal Analysis\ID08134.005
Operator: DS
Run Date: 28-Apr-2021 10:00
Instrument: DSC Q2000 V24.11 Build 124

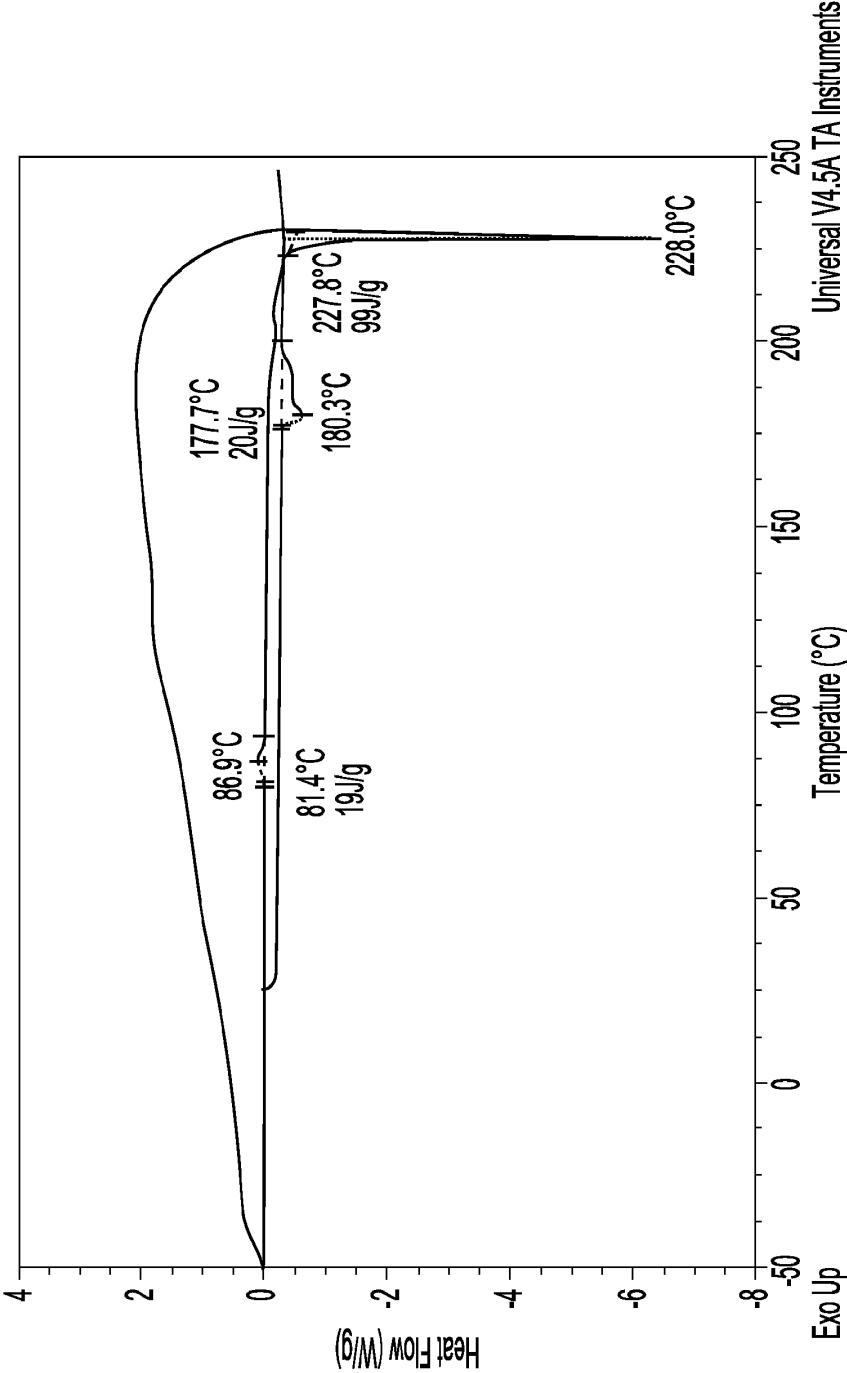


Fig. 15A

Sample: J10907_MeltQuench
Size: 3.6670 mg
Method: Melt_MDSC -50°C to 250°C @2°C

DSC

File: \\...\\4047\\Thermal Analysis\\D08134.005
Operator: DS
Run Date: 28-Apr-2021 10:00
Instrument: DSC Q2000 V24.11 Build 124

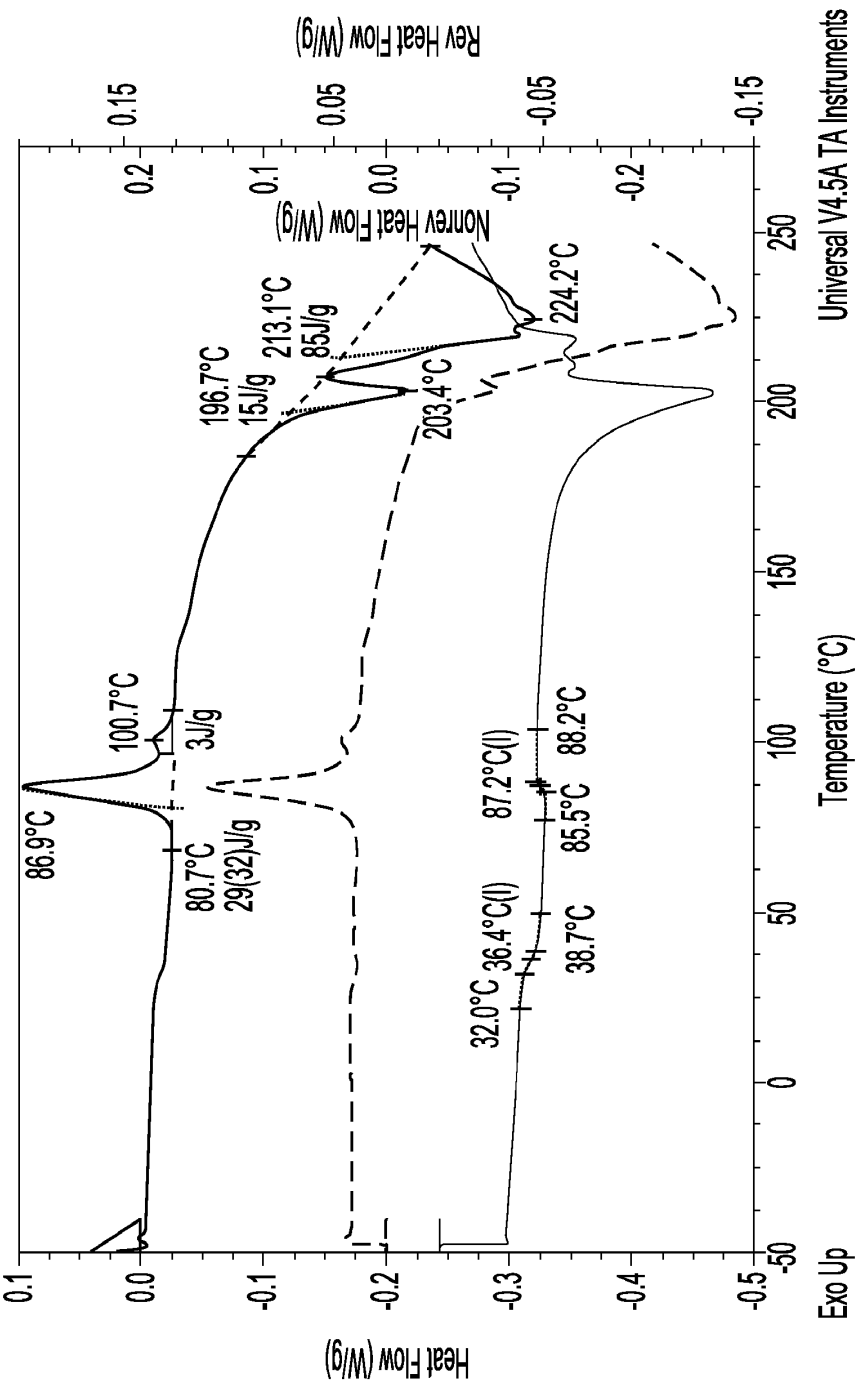


Fig. 15B

Universal V4.5A TA Instruments

DSC of PP-001 Form B

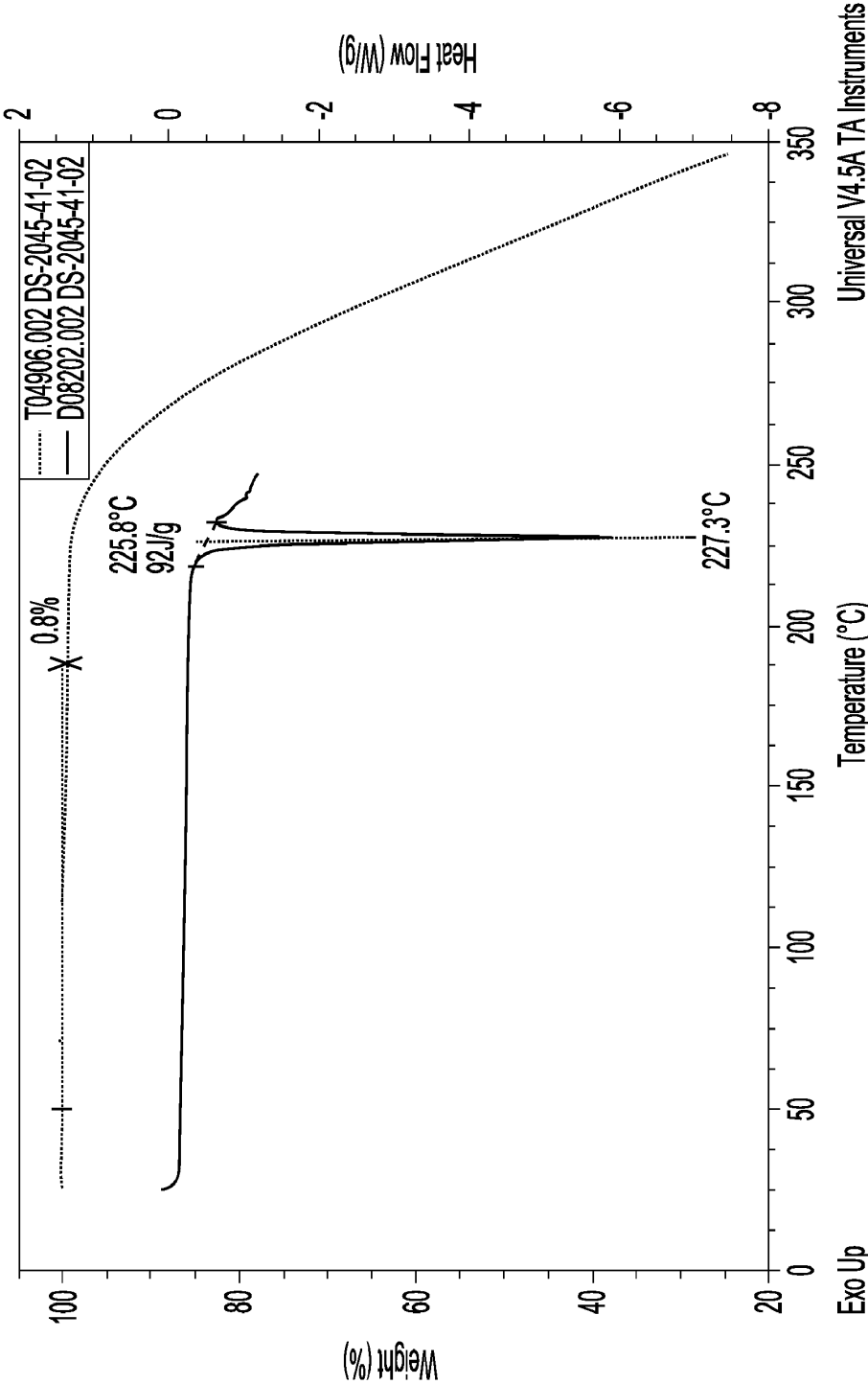
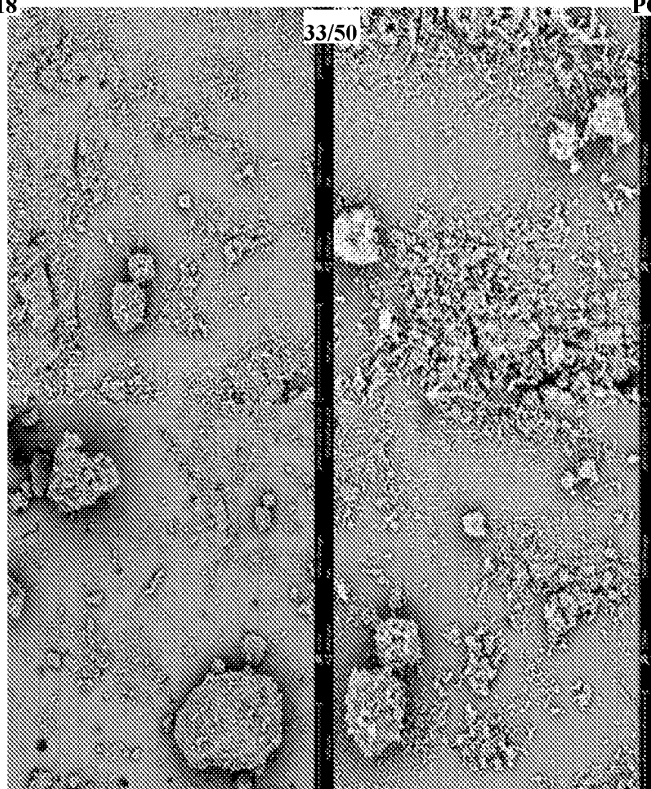


Fig. 16

B. SEM of PP-001 Form B



A. PLM of PP-001 Form B

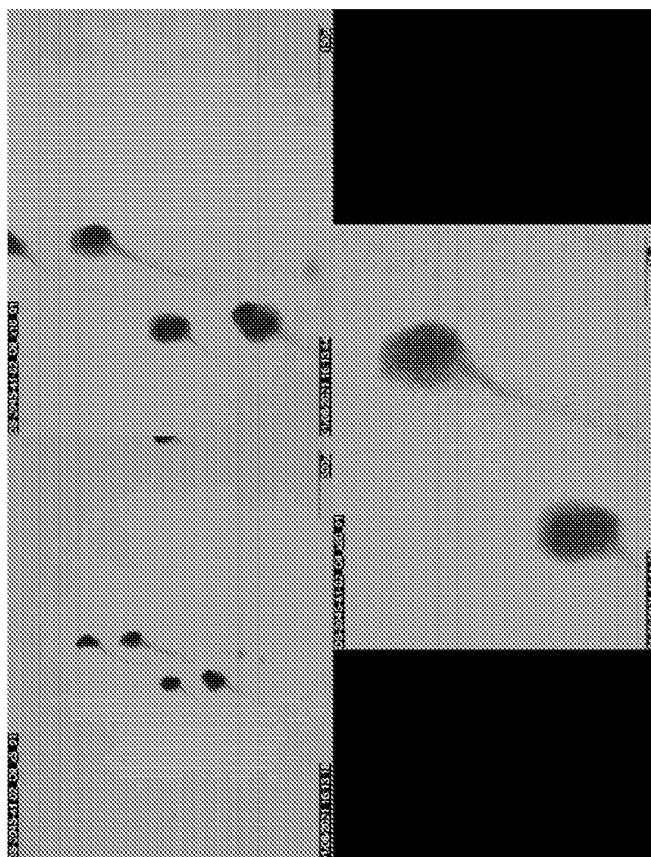
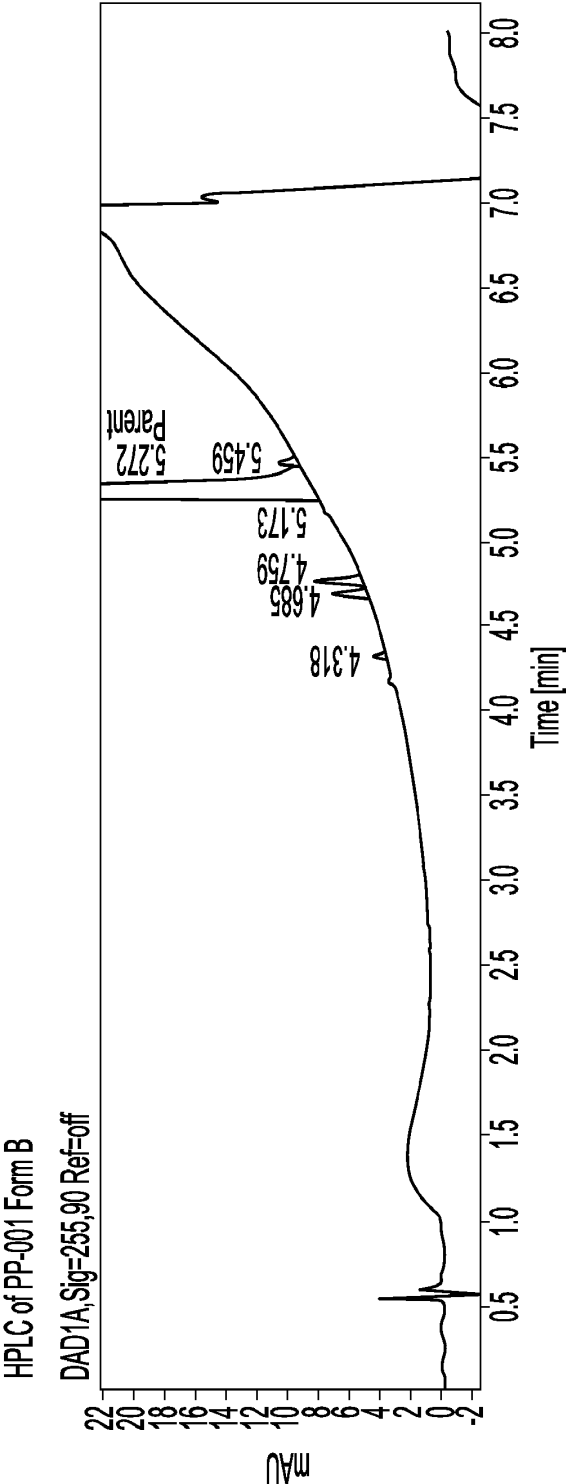
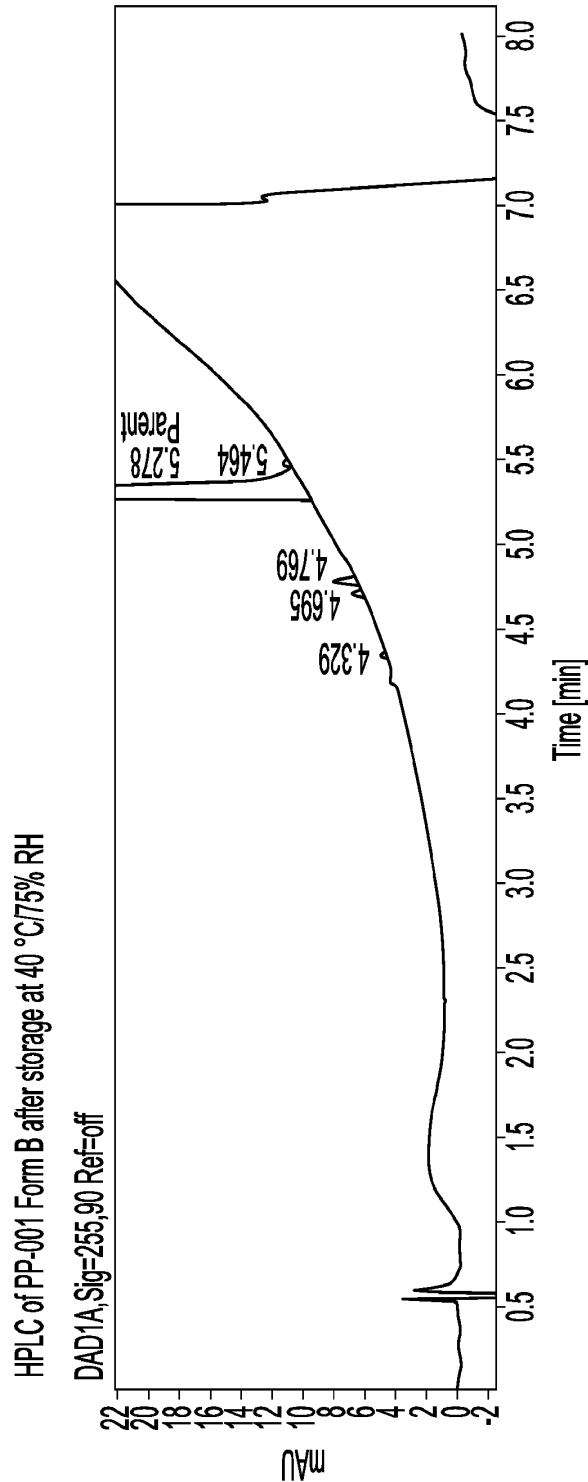


Fig. 17A-17B



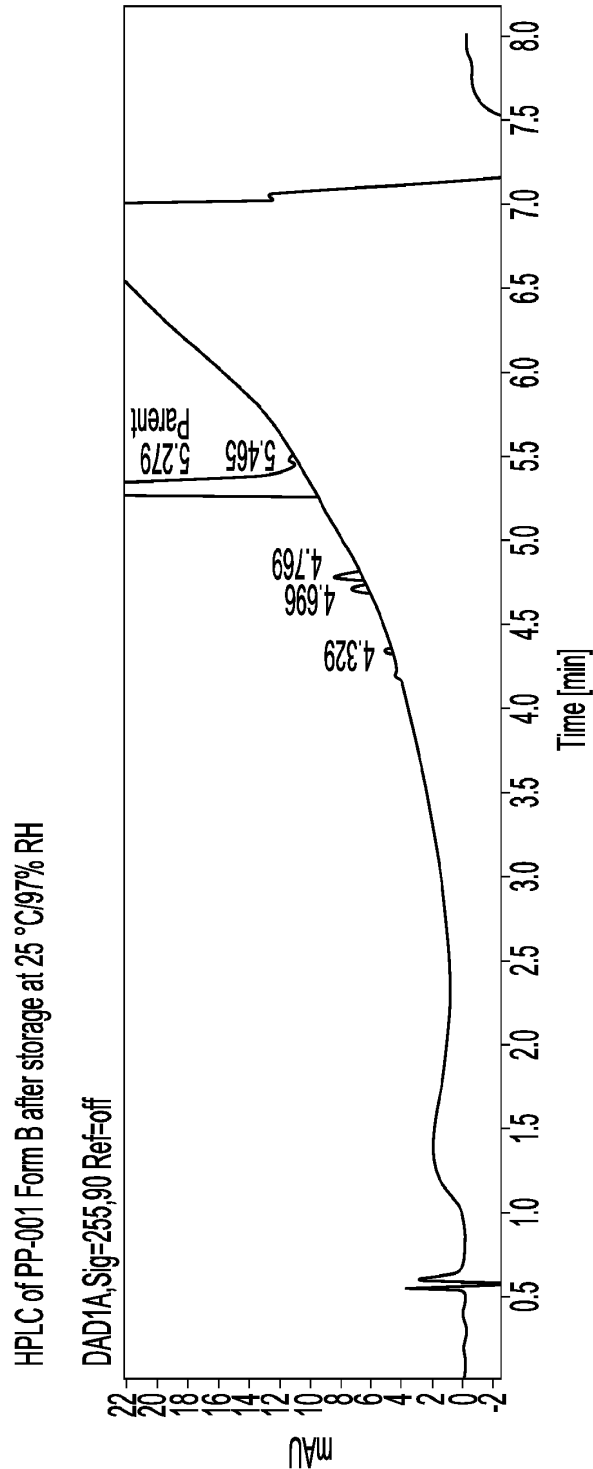
RRT	Area (%)	RT (min)	Area	Name
0.89	0.15	4.69	3.9	
0.90	0.20	4.76	5.2	
1.00	99.49	5.27	2634.8	Parent
Total % Area				
Sum impurity <0.1%:				

Fig. 18A



RRT	Area (%)	RT (min)	Area	Name
0.89	0.10	4.69	1.3	
0.90	0.20	4.77	2.5	
1.00	99.57	5.28	1247.0	Parent
Total % Area				
Sum impurity <0.1%:				

Fig. 18B



RRT	Area (%)	RT (min)	Area	Name
0.89	0.15	4.70	1.8	
0.90	0.27	4.77	3.1	
1.00	99.44	5.28	1173.7	Parent
Total % Area				
Sum impurity <0.1%:				

Fig. 18C

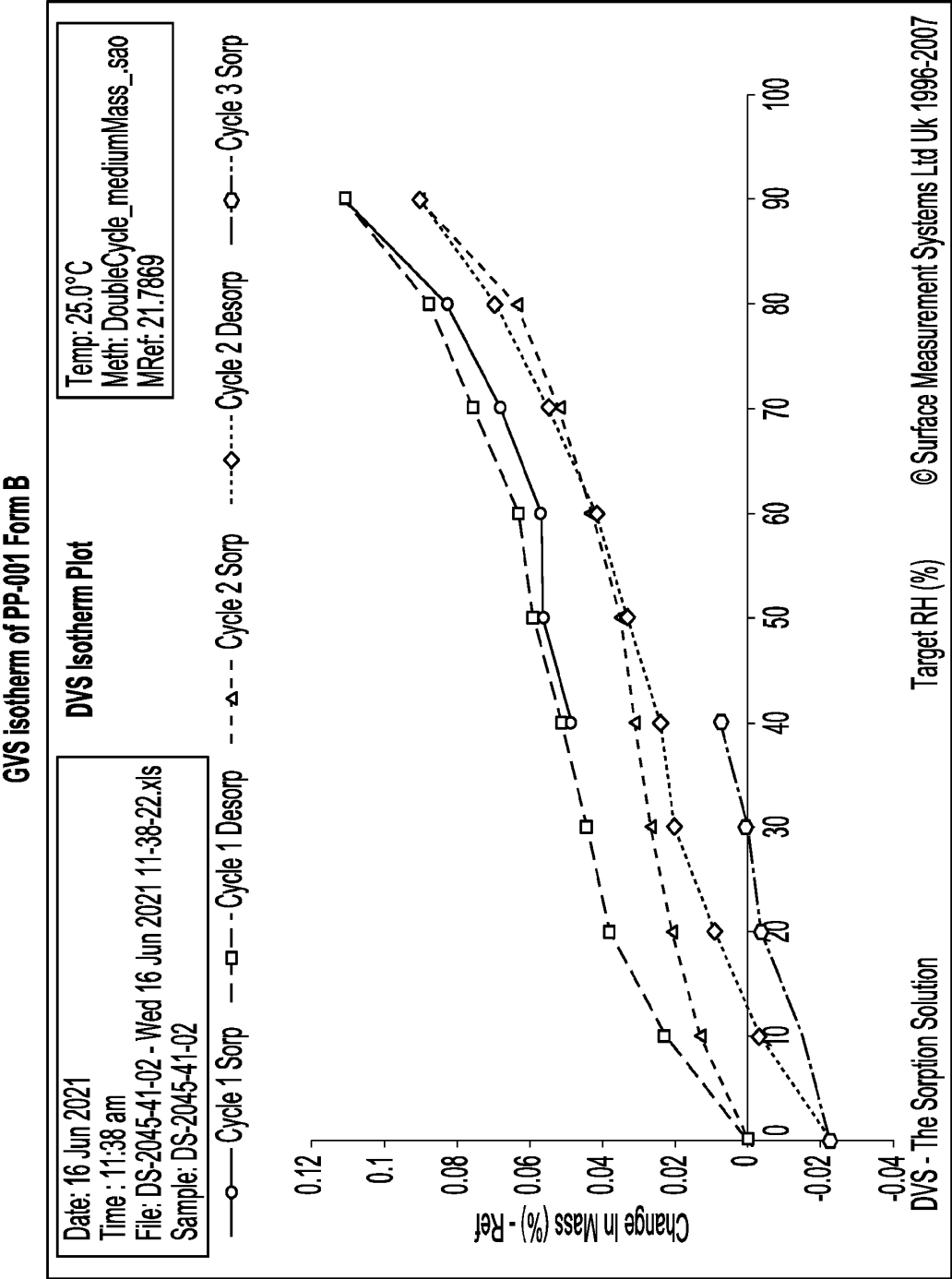


Fig. 19

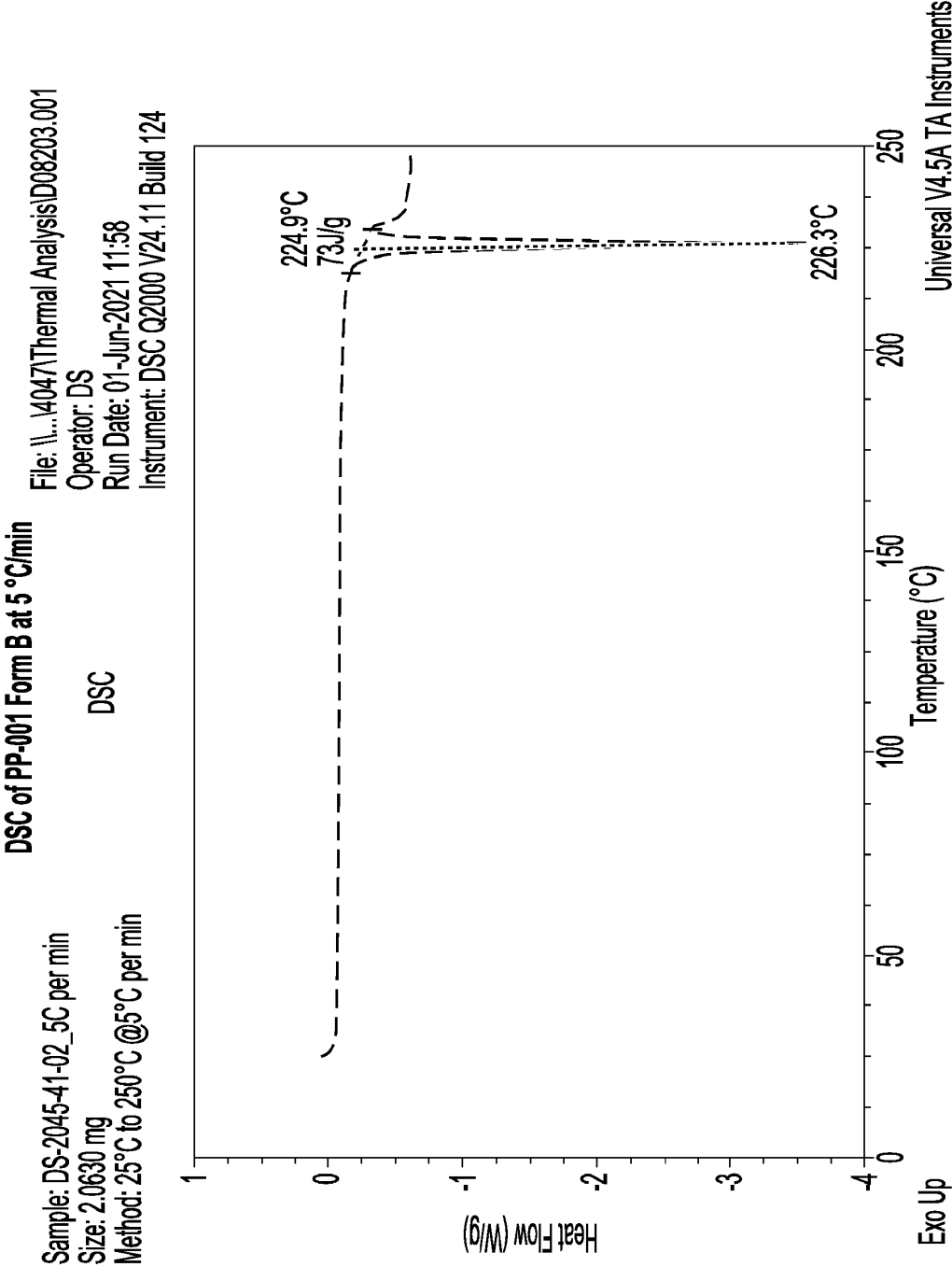


Fig. 20A

DSC of PP-001 Form B at 20 °C/min

Sample: DS-2045-41-02_20C per min
Size: 1.9530 mg
Method: 25°C to 250°C @20°C per min

DSC

File: \\...\\4047\\Thermal Analysis\\D08203.002
Operator: DS
Run Date: 01-Jun-2021 13:00
Instrument: DSC Q2000 V24.11 Build 124

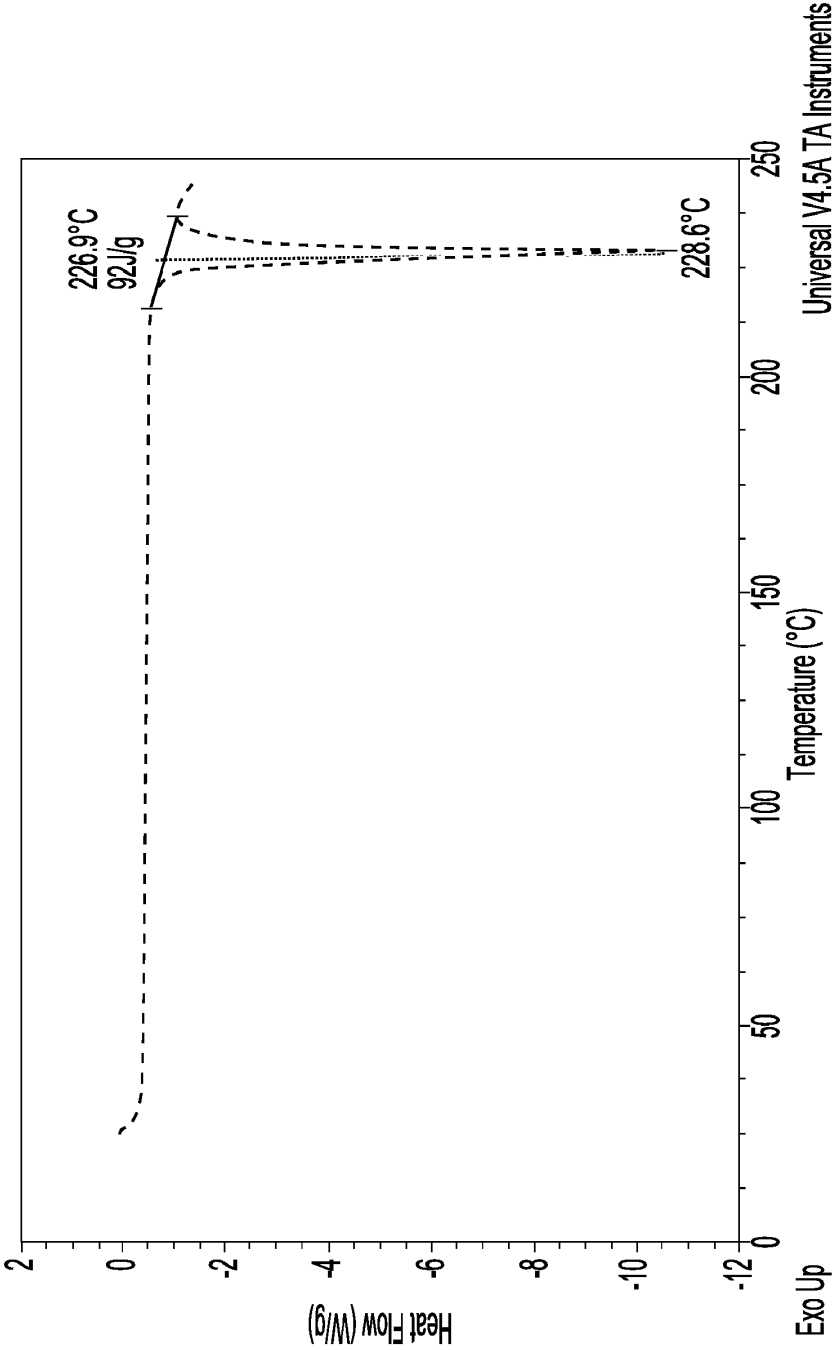


Fig. 20B

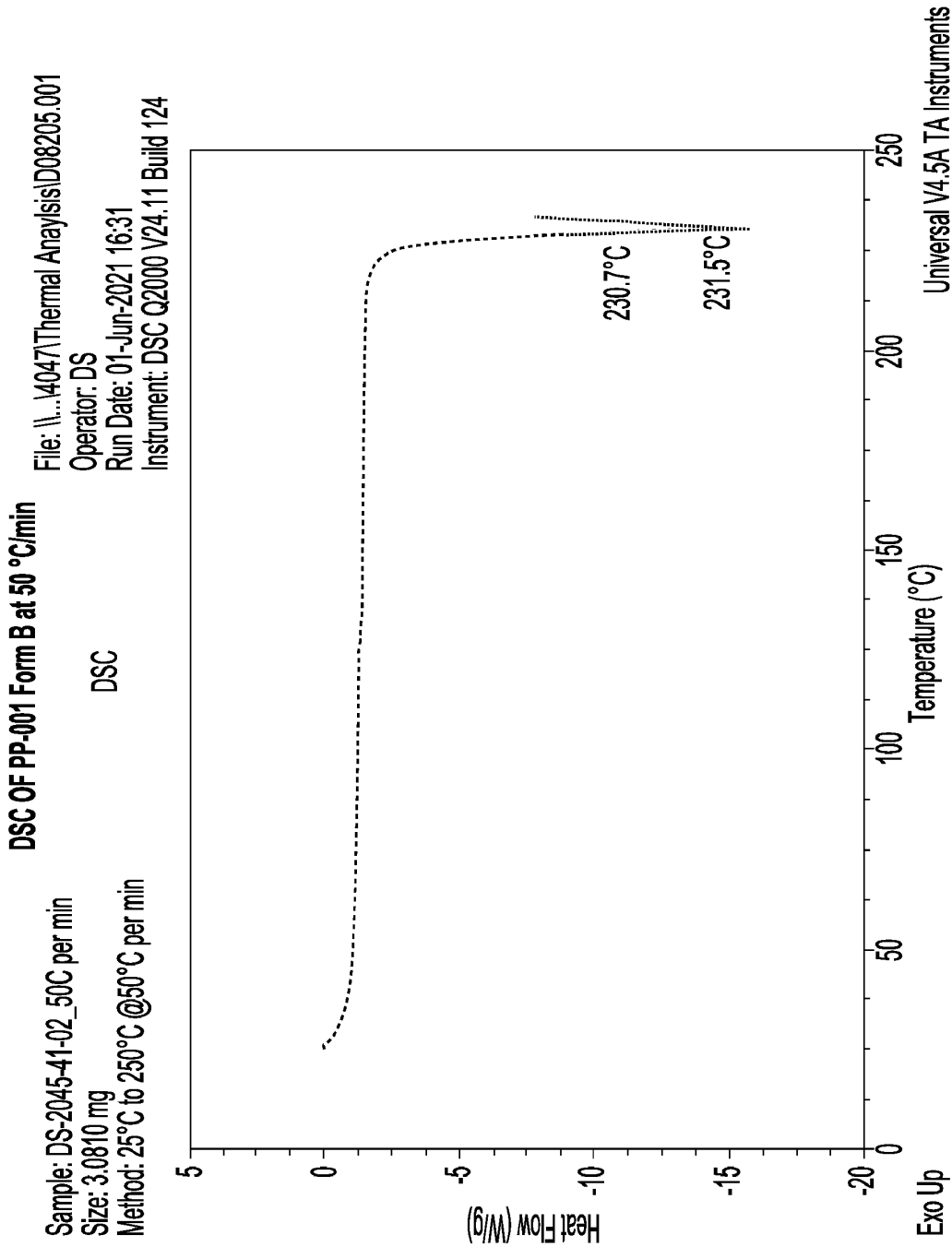


Fig. 20C

XRPD overlay of prepared mixture of Form A and Form B

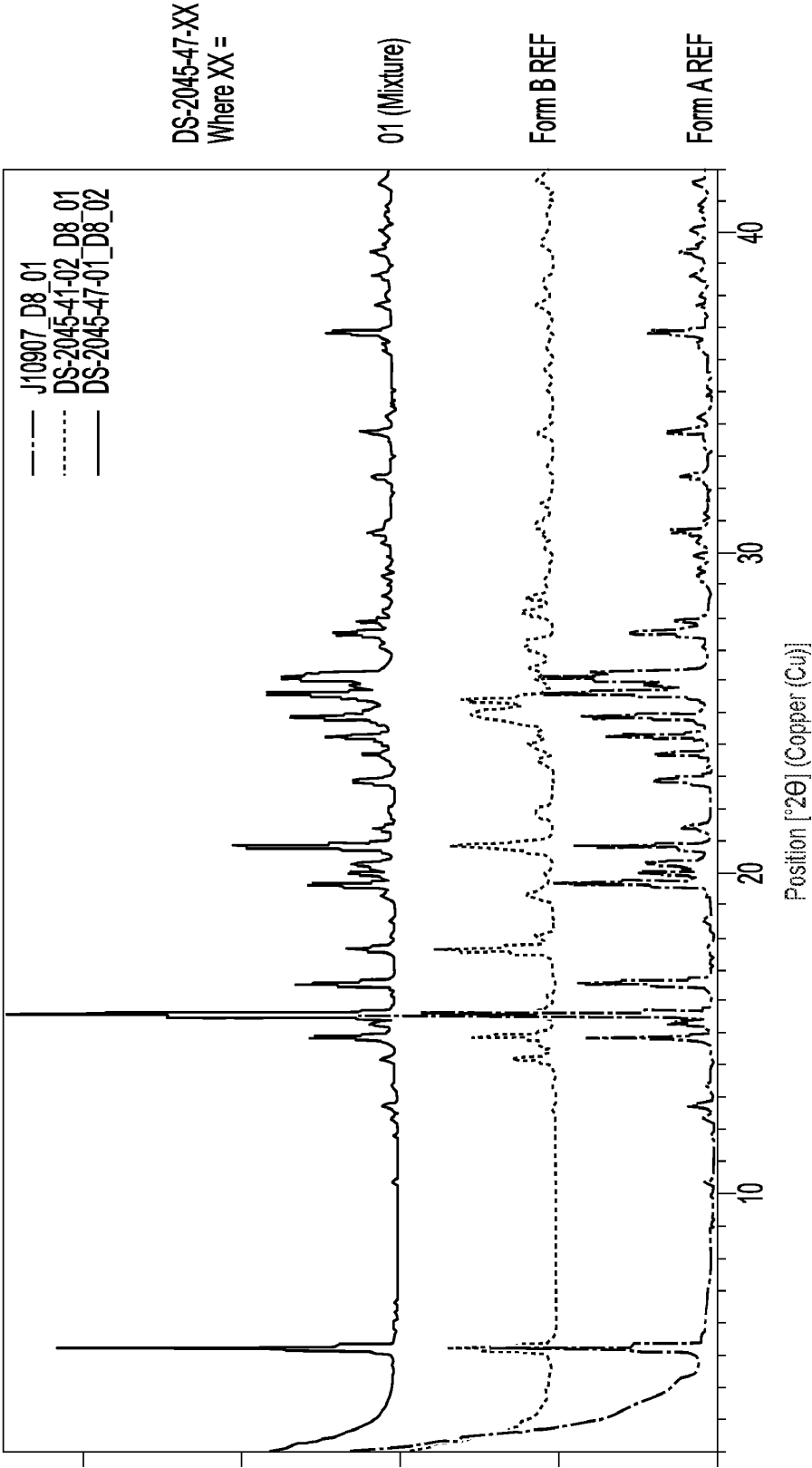


Fig. 21

XRPD overlay of aliquots taken during competitive slurrying of Form A and Form B after 5 days, wherein additional Form A and Form B was added after 4 days to get a sustained suspension

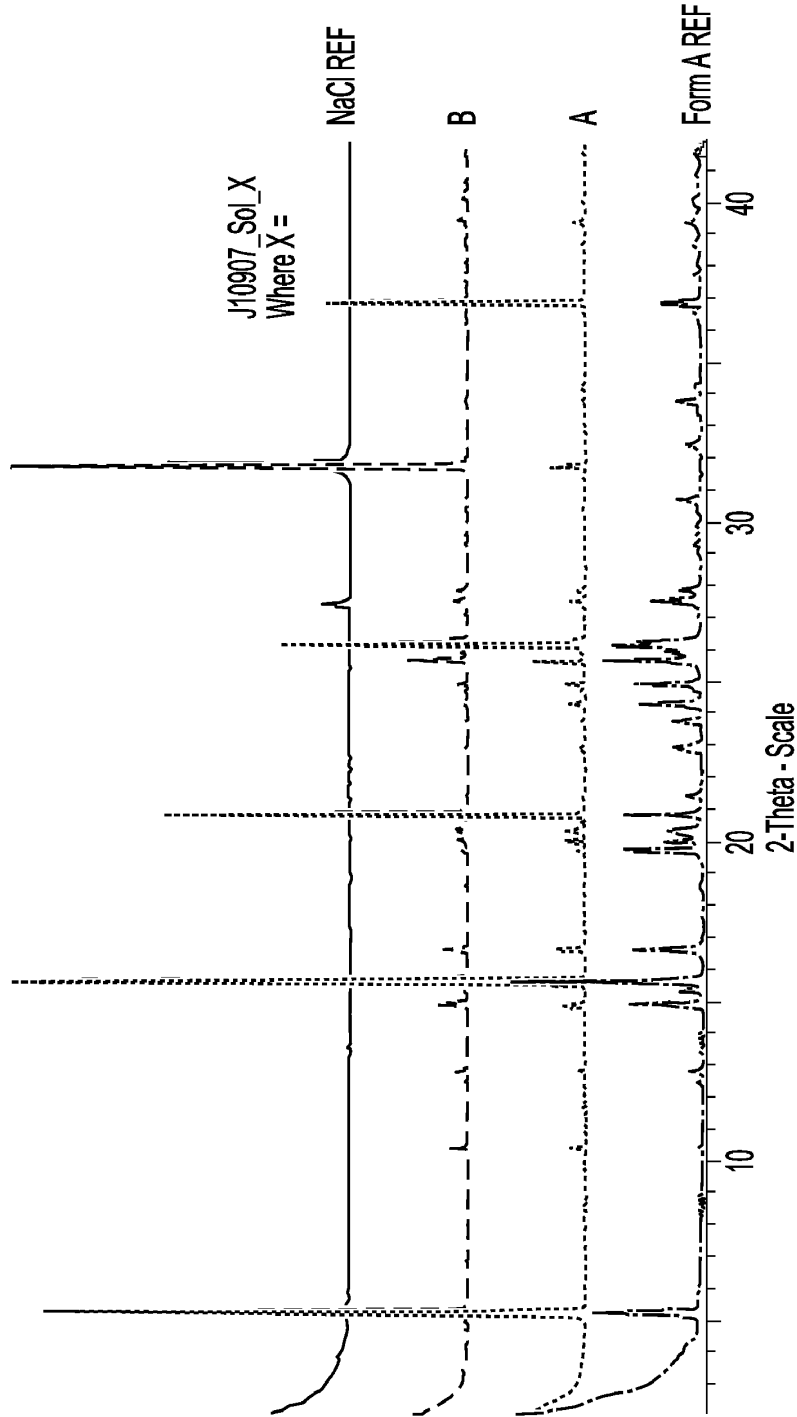


Fig. 22

XRPD of PP-001 Form B after thermodynamic solubility determination

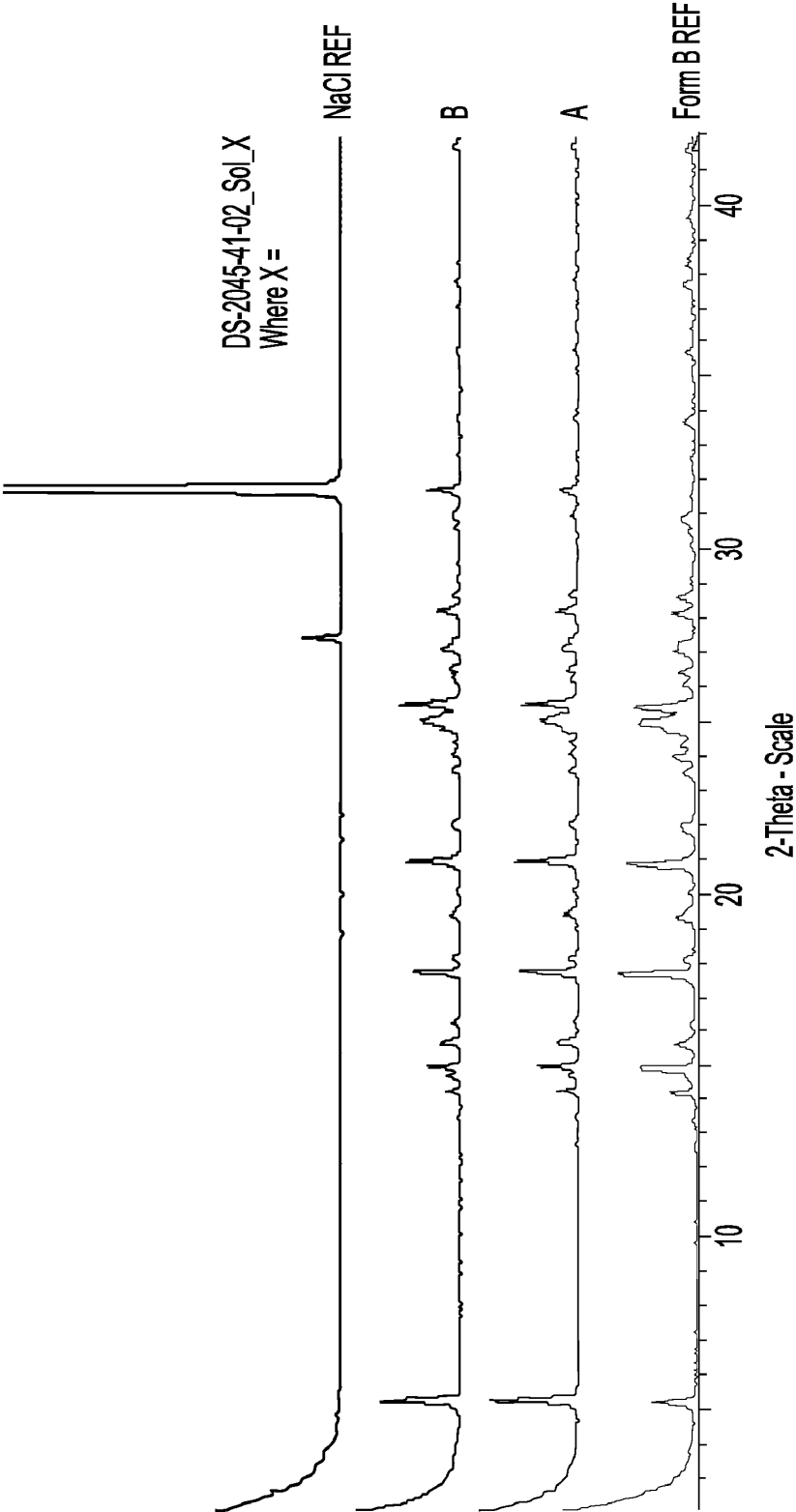


Fig. 23

Summary of the result from competitive slurring of Form A and Form B

Sample ID	Solvent	Temp (°C)	Obs. After 4 Days	XRPD (4 Days)	XRPD (5 Days)
DS-2045-48-01	IPA	5	Suspension	Form A	N/A
DS-2045-48-02	Heptane	5	Suspension	Form A	N/A
DS-2045-48-03	IPAC	5	Suspension	Form A	N/A
DS-2045-48-04	IPA:Water (2%)	5	Suspension	Form A	N/A
DS-2045-48-05	IPA:Water (5%)	5	Suspension	Form A	N/A
DS-2045-48-06	IPA:Water (13:5)	5	Suspension	Form A	N/A
DS-2045-48-07	IPA	25	Suspension	Form A	N/A
DS-2045-48-08	Heptane	25	Suspension	Form A	N/A
DS-2045-48-09	IPAC	25	Suspension	Form A	N/A
DS-2045-48-10	IPA:Water (2%)	25	Suspension	Form A	N/A
DS-2045-48-11	IPA:Water (5%)	25	Suspension	Form A	N/A
DS-2045-48-12	IPA:Water (13:5)	25	Suspension	Form A	N/A
DS-2045-48-13	IPA	50	Clear Solution with solid on vial walls	Form A*	Form A
DS-2045-48-14	Heptane	50	Suspension	Form A	N/A
DS-2045-48-15	IPAC	50	Suspension	Form A	N/A
DS-2045-48-16	IPA:Water (2%)	50	Clear Solution with solid on vial walls	Form A*	Form A
DS-2045-48-17	IPA:Water (5%)	50	Clear Solution with solid on vial walls	Form A*	Form A
DS-2045-48-18	IPA:Water (13:5)	50	Suspension	Form A	N/A
* = additional solid mixture (Form A + B) added after 4 days to get a substantial suspension					

Fig. 24

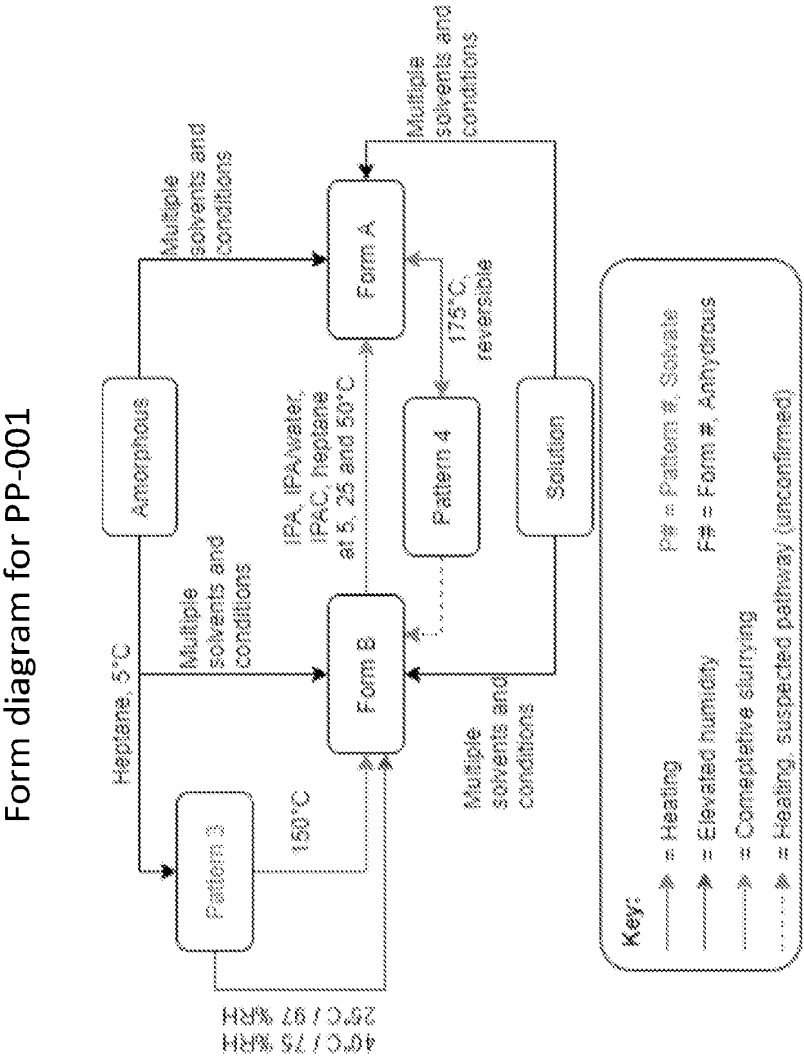


Fig. 25

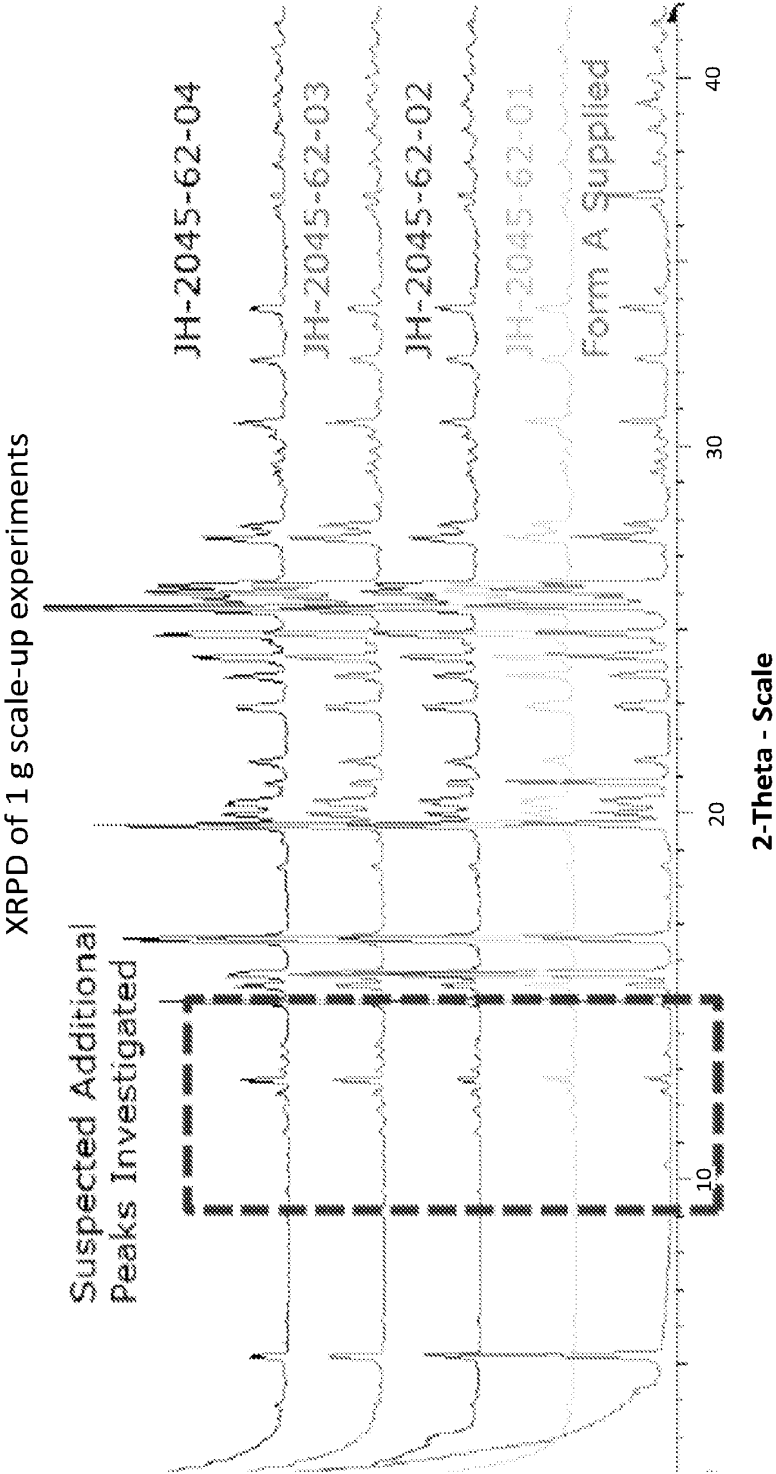


Fig. 26

Detail of XRPD of 1 g scale-up experiments showing additional peaks

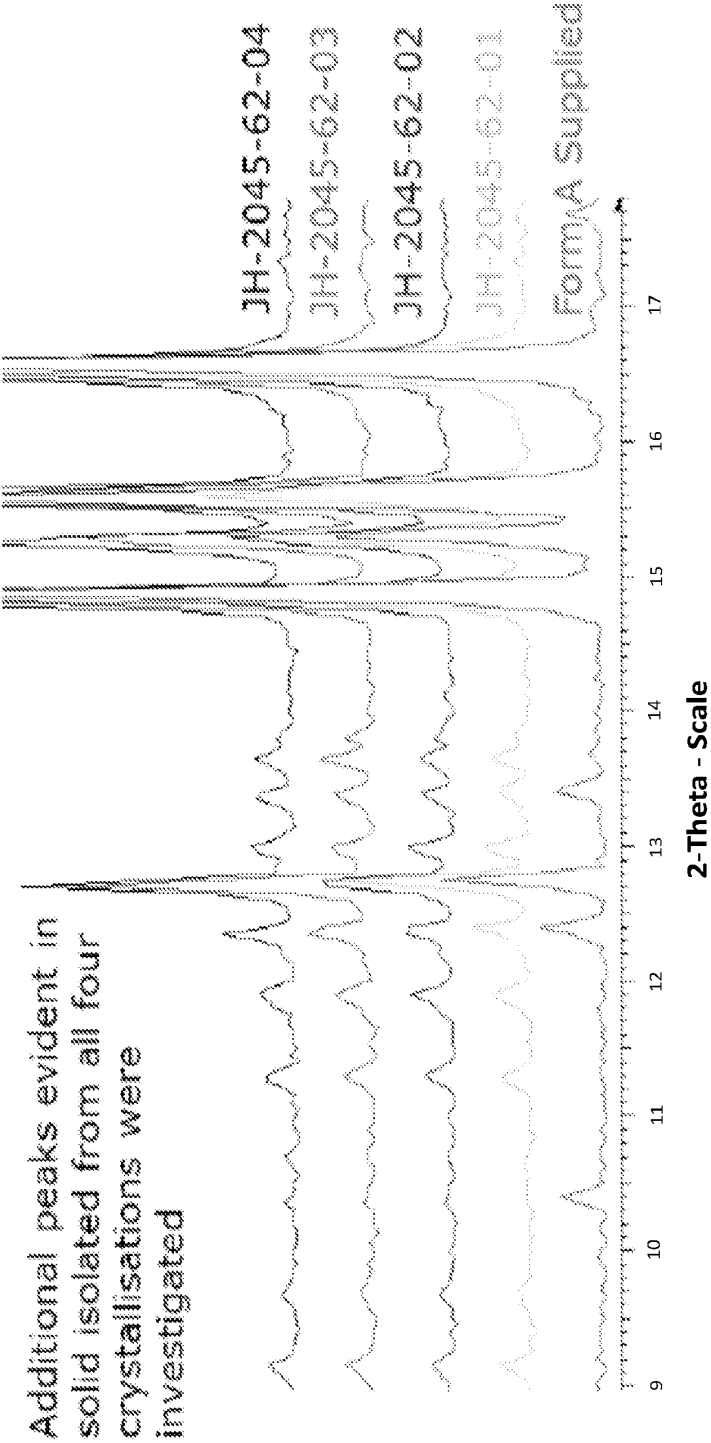


Fig. 27

PLM comparison of supplied PP-001 Form A (J10907) and 1 g scale-up Form A

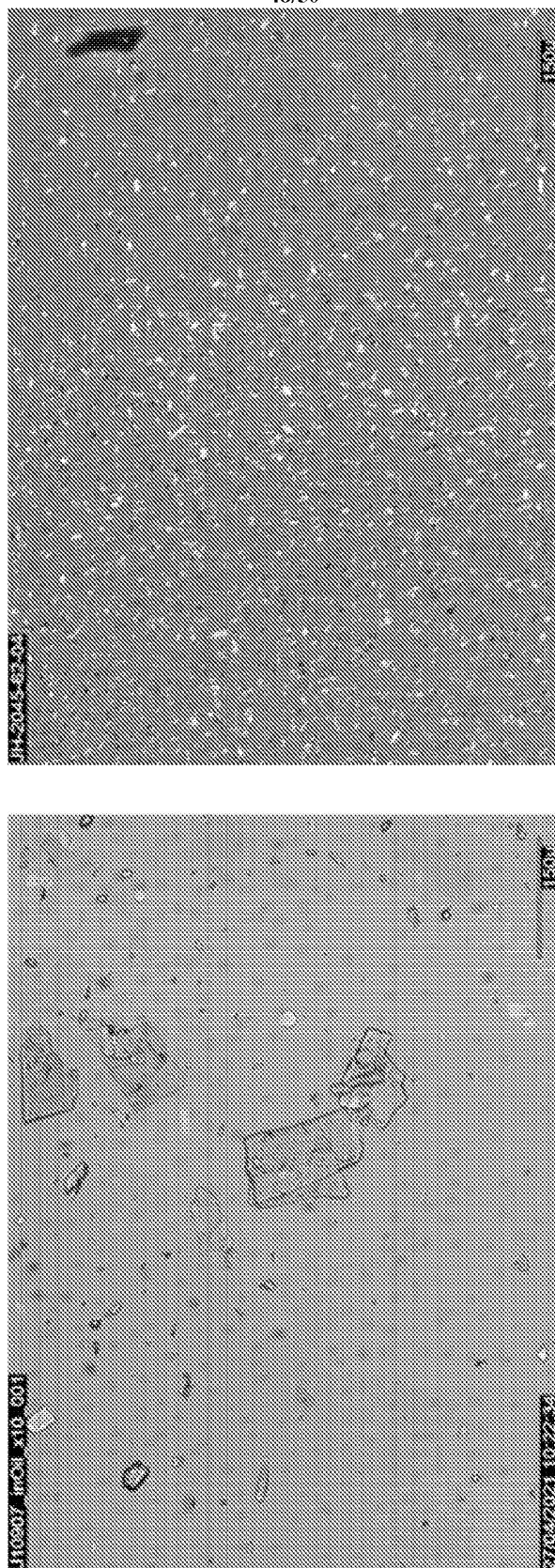


Fig. 28

Detail of XRPD of 1 g scale-up experiments using large-recess sample holder

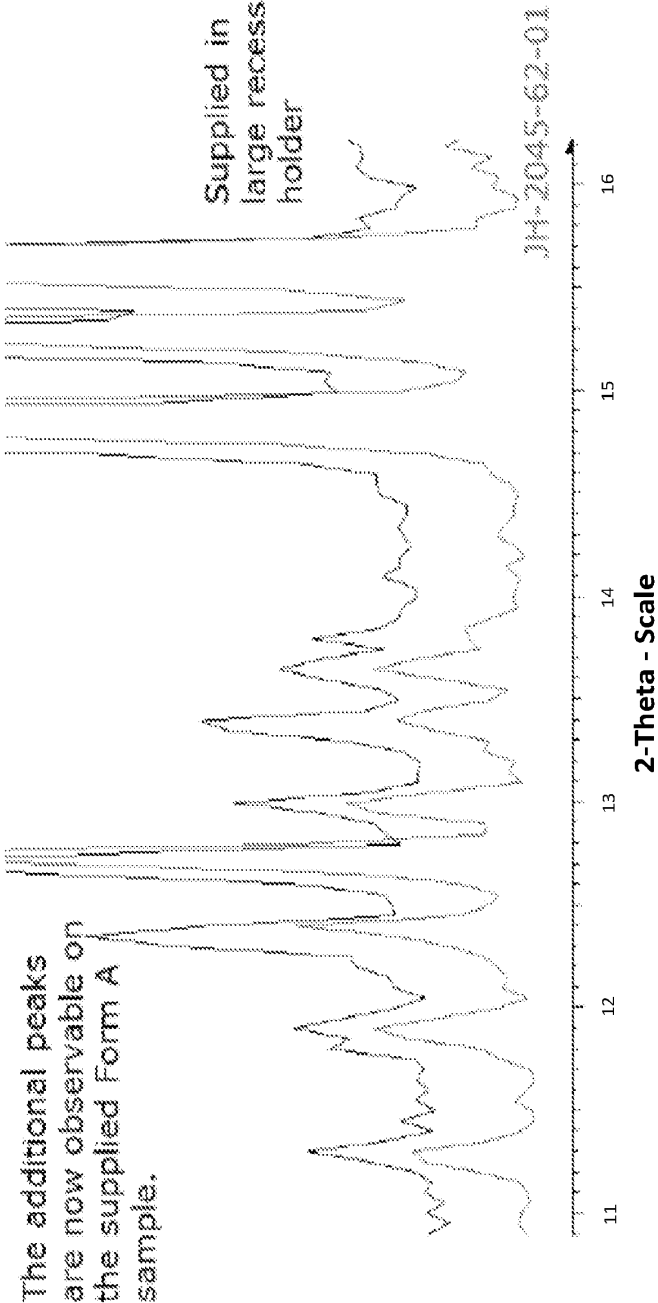


Fig. 29

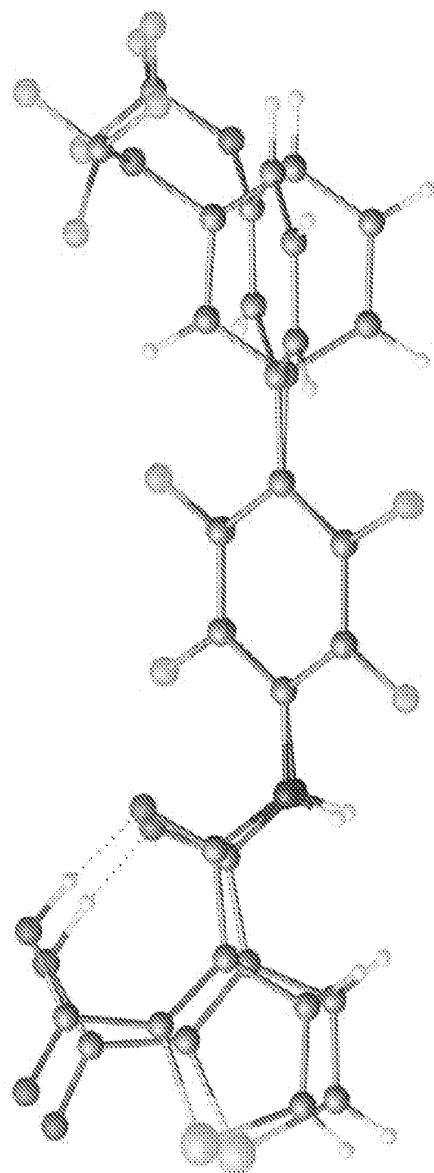


Fig. 30