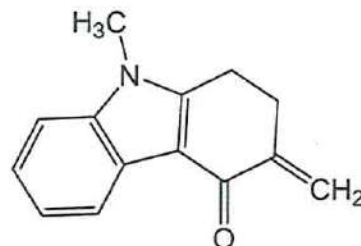




Product Name	Ondansetron Related Compound D
Lot No.	PH-OND-02204S1V2
Product Code	PA 15 07040
CAS No.	99614-64-9
Release Date	07 Oct 2025
Retest Date	06 Oct 2028
Molecular Weight	211.26
Molecular Formula	C ₁₄ H ₁₃ NO
Storage	2 - 8°C in dark place
Shipping	Ambient temperature in dark condition
Synonyms	1,2,3,4-Tetrahydro-9-methyl-3-methylene-9H-carbazol-4-one; 1,2,3,9-Tetrahydro-9-methyl-3-methylene-4H-carbazol-4-one;



ANALYTICAL INFORMATION			
S. No.	Tests	Result	Specifications
1.	Description	Yellowish solid	Yellow to yellowish solid
2.	Identification by: IR NMR MS	Conforms Conforms Conforms	To conform to structure To conform to structure To conform to structure
3.	LOD (% w/w)	0.53	-
4.	Residue on Ignition (% w/w)	0.01	-
5.	Chromatographic Purity (% by HPLC) *	99.9	NLT 95.0
6.	Assay (% m/m) on as is basis	99.4	-
Summary		Product is characterized by using IR, NMR, MS, TGA, HPLC	
Caution: Do not dry the material. Use as such. For analytical and research purpose only, not for human and animal consumption.			
Quality concern, if any: Inform within three months of Invoice Date.			
*Retest value			
Date of Issue		15 Jun 2026	

Vial No. : 14414
Version : 05

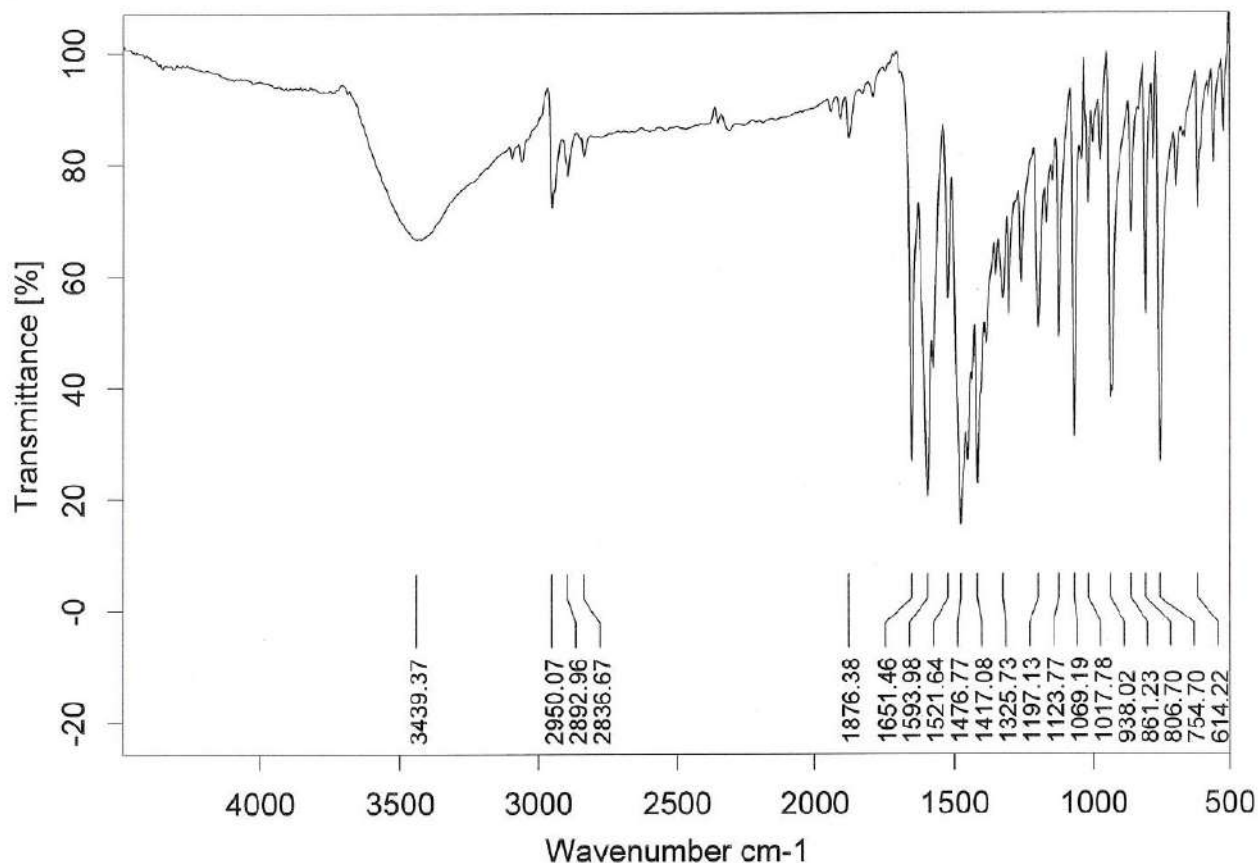


Authorized Signatory

(A. Bhardwaj)
Lot Certifier
NS

Evy Fenny V.
31/07/2026

Infra-Red Spectra FTIR IRAffinity-1S, ATR



Wavenumber	Abs. intensity	Rel. intensity	Width	Found if threshold <	Shoulder
3439.3685	0.666	0.342	566.2777	36.473625	0
2950.0690	0.718	0.220	30.5926	23.881947	0
1651.4579	0.265	0.466	11.4314	50.658672	0
1593.9814	0.203	0.670	45.2291	72.868538	0
1521.6429	0.556	0.257	11.7443	23.966761	0
1476.7652	0.151	0.905	130.9392	94.106972	0
1417.0795	0.222	0.294	10.9043	31.514143	0
1197.1326	0.506	0.325	18.6504	35.074341	0
1123.7718	0.484	0.379	11.3441	39.289097	0
1069.1887	0.310	0.631	13.9019	68.036636	0
1017.7829	0.727	0.263	13.5277	28.504667	0
938.0160	0.376	0.624	23.3093	68.102249	0
861.2273	0.677	0.247	11.3827	25.478878	0
806.6991	0.524	0.461	9.3614	49.842930	0
754.6974	0.264	0.766	21.8091	80.337173	0
614.2218	0.719	0.255	14.5413	26.985186	0
2892.9568	0.778	0.068	19.0403	30.218767	0
2836.6730	0.813	0.045	15.0648	55.217422	0
1876.3838	0.844	0.092	17.5516	74.847374	0
672.3233	0.848	0.013	6.8669	1.382573	0
522.8610	0.856	0.154	8.5059	48.508659	0

NMR: Spectra DMSO

Sample code: PH-OND-02204S1V2

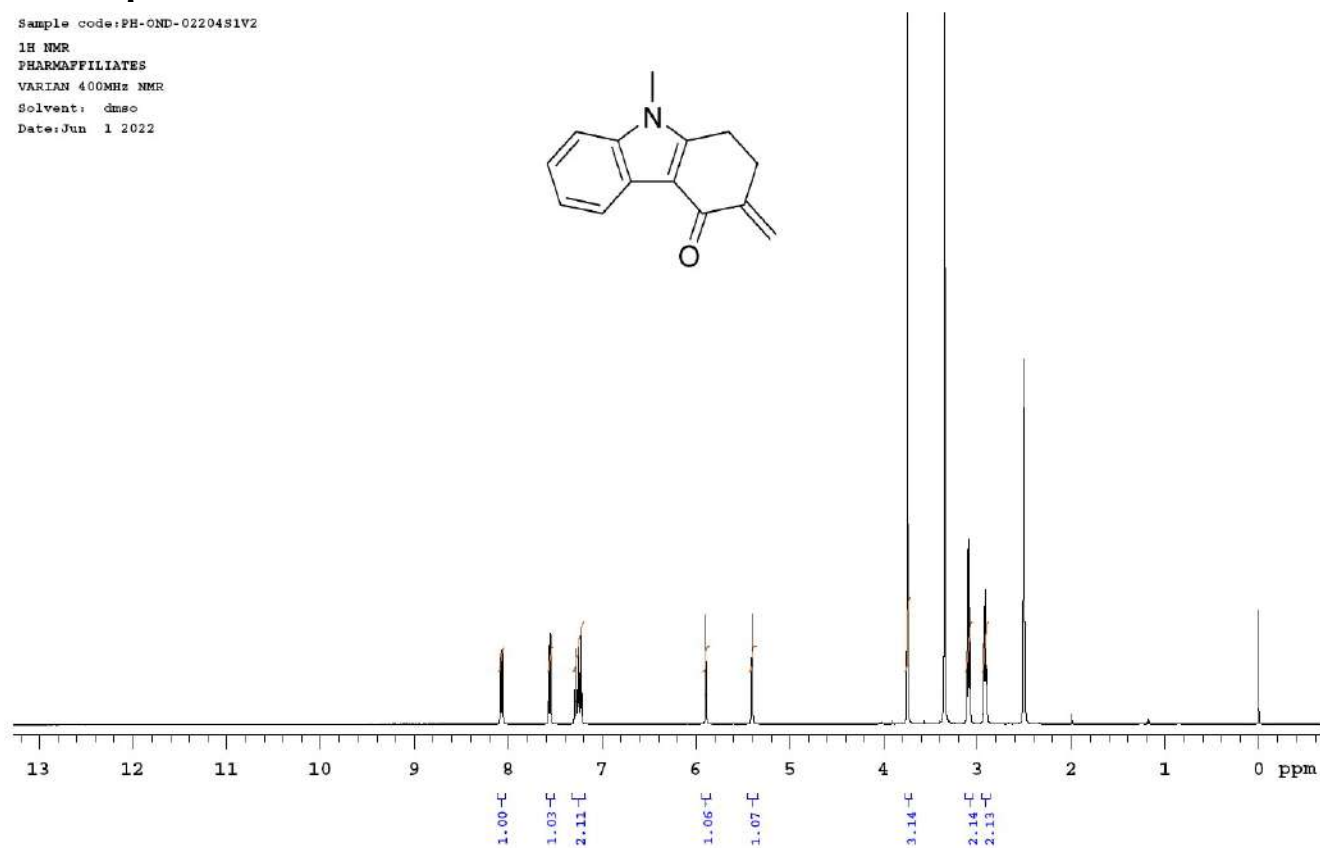
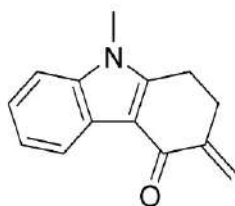
¹H NMR

PHARMAFFILIATES

VARIAN 400MHz NMR

Solvent: dmsc

Date: Jun 1 2022



Sample code: PH-OND-02204S1V2

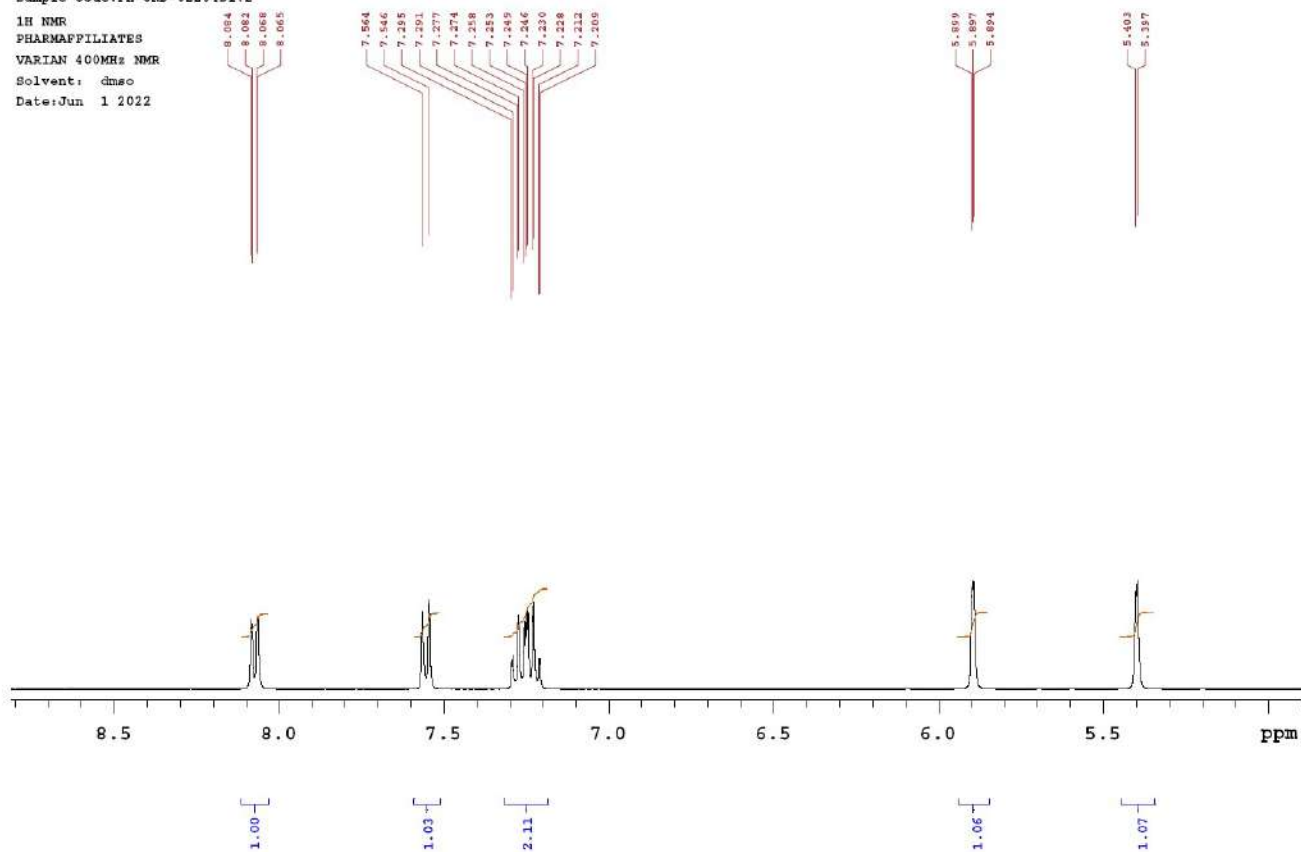
¹H NMR

PHARMAFFILIATES

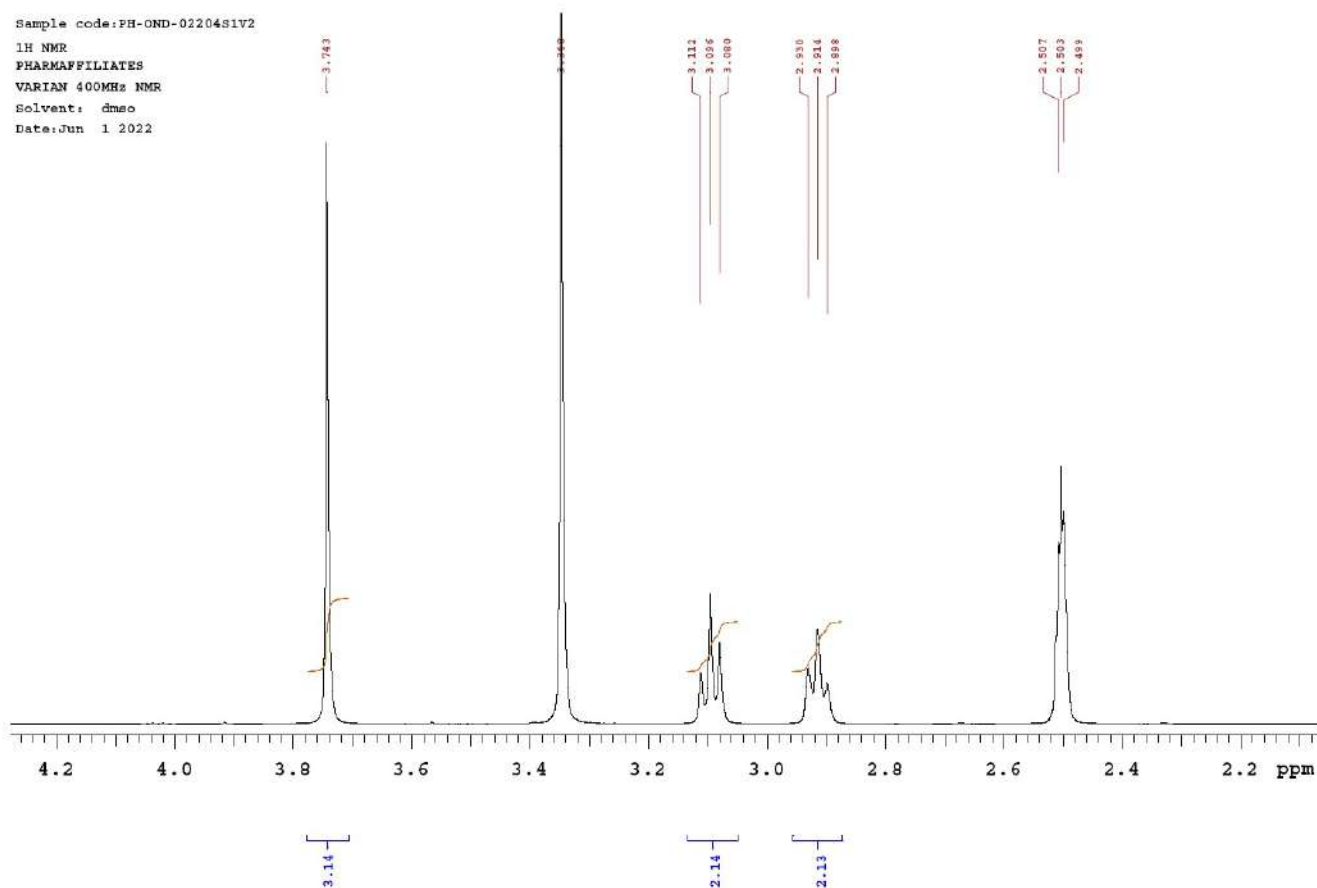
VARIAN 400MHz NMR

Solvent: dmsc

Date: Jun 1 2022



Sample code: PH-OND-02204S1V2
 1H NMR
 PHARMAFFILIATES
 VARIAN 400MHz NMR
 Solvent: dmsc
 Date: Jun 1 2022



Sample code: PH-OND-02204S1V2

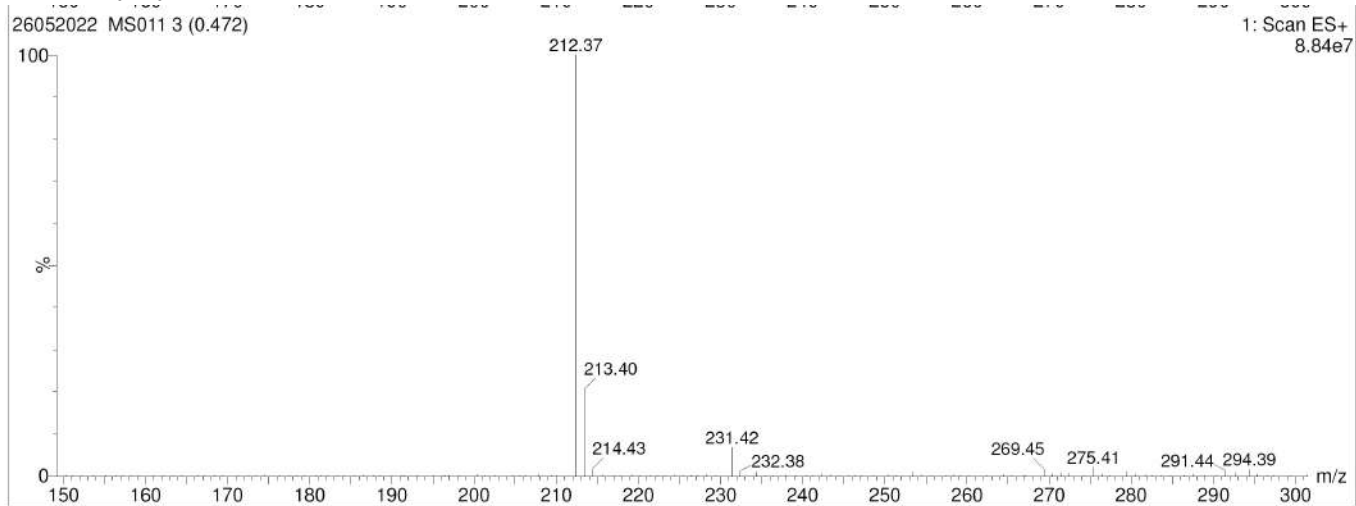
1H NMR
 VARIAN 400MHz NMR
 PHARMAFFILIATES
 Solvent: dmsc
 Date: Jun 1 2022

INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	3231.8	8.084	9.5	35	0.0	0.000	15.4
2	3230.9	8.082	8.4				
3	3225.2	8.068	9.6				
4	3224.1	8.065	9.9				
5	3023.9	7.564	10.6				
6	3016.5	7.546	12.2				
7	2916.3	7.295	3.6				
8	2914.7	7.291	4.7				
9	2909.0	7.277	9.1				
10	2907.7	7.274	10.1				
11	2901.4	7.258	8.4				
12	2899.6	7.253	9.2				
13	2898.1	7.249	10.4				
14	2896.8	7.246	10.9				
15	2890.4	7.230	10.1				
16	2889.3	7.228	11.8				
17	2883.2	7.212	4.2				
18	2882.1	7.209	4.2				
19	2358.3	5.899	12.8				
20	2357.2	5.897	14.0				
21	2356.1	5.894	14.7				
22	2159.9	5.403	13.3				
23	2157.7	5.397	14.8				
24	1496.5	3.743	110.3				
25	1338.2	3.348	174.7				
26	1243.9	3.112	9.8				
27	1237.6	3.096	24.8				
28	1231.2	3.080	15.6				
29	1171.4	2.930	10.9				
30	1165.0	2.914	18.1				
31	1158.4	2.898	7.8				
32	1002.3	2.507	34.7				
33	1000.6	2.503	49.0				
34	998.8	2.499	40.3				

MS Spectra

PH-OND-02204S1V2

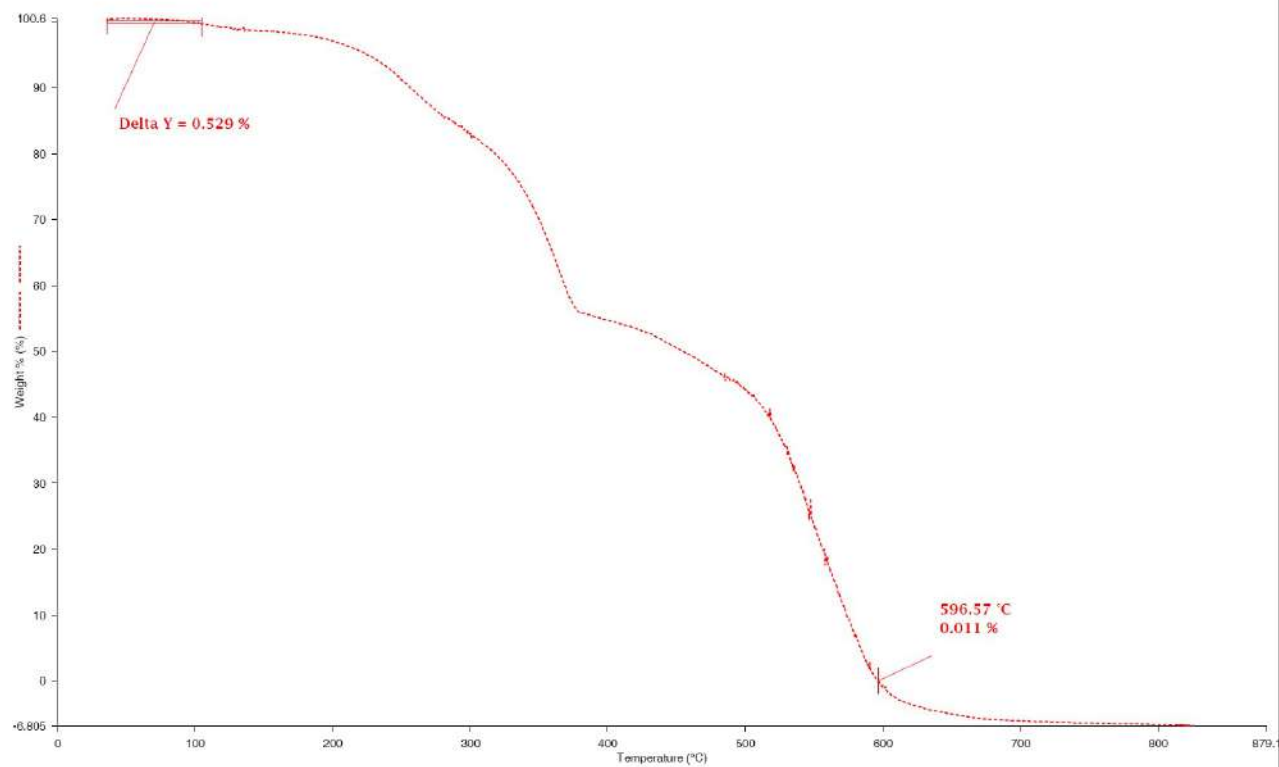
26052022 MS011 3 (0.472)



212.37m/z (M+H)

TGA Thermogram

Filename: D:\2022\JUNE 2022\PH-OND-02204S1V2.tbd
Operator ID: Poonam Sharma
Sample ID: PH-OND-02204S1V2
Sample Weight: 2.162 mg
Comment:



Chromatographic Purity

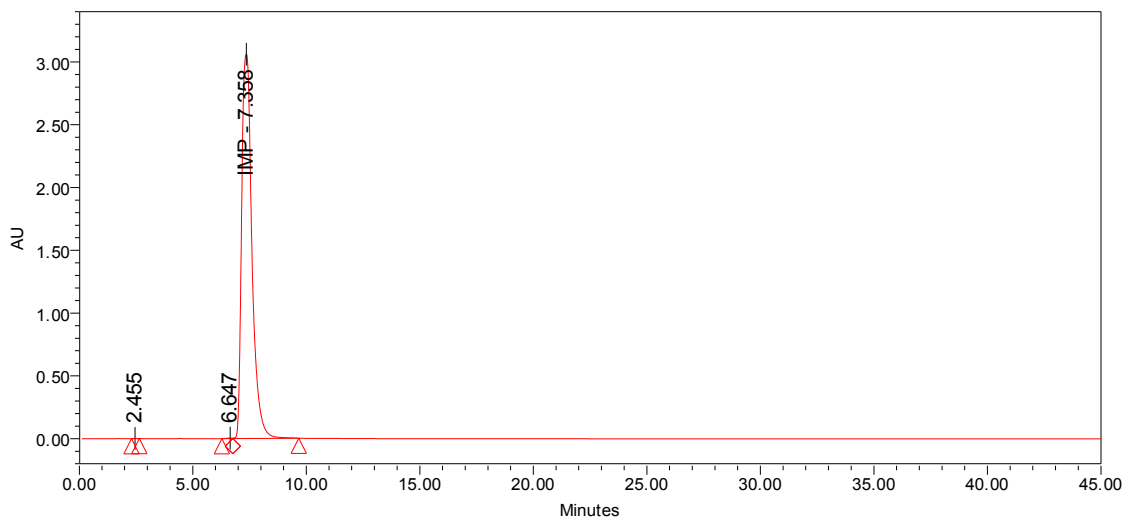
SAMPLE INFORMATION

Sample Name: PH-OND-02204S1V2_14414
Sample Type: Unknown
Vial: 99
Injection #: 1
Injection Volume: 20.00 ul
Run Time: 45.0 Minutes

Acquired By: Raksha
Sample Set Name: OND_CP_280925_00
Acq. Method Set: OND_CP_INST_280925
Processing Method: OND_CP_PR_290925
Channel Name: 2487Channel 1
Proc. Chnl. Descr.: 216 nm

Date Acquired: 9/28/2025 12:25:23 PM IST
Date Processed: 9/29/2025 8:26:05 AM IST

Auto-Scaled Chromatogram



Peak Results

	RT	Area	% Area
1	2.455	16551	0.02
2	6.647	83586	0.09
3	7.358	96467593	99.90
4	18.040		

Chromatography Method	
Buffer	Dissolved 2.8109 of sodium dihydrogen phosphate in 1000mL of water and adjusted pH 5.412 with diluted NaOH
Mobile Phase	Buffer: Acetonitrile (800:200)v/v
Diluent	Mobile Phase
Test Solution	1.5 mg sample dissolved in 1.5 mL of diluent.
Flow Rate	1.5mL/min
Run Time	45min
Detector/Wavelength	216nm
Injection Volume	20µL
Column	Spheri sorb CN RP (250 mm x 4.6 mm, 5 µm)
Column Temperature	25°C
Method	In House