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CERTIFICATE OF ANALYSIS

Product Name	Dichloroacetyl Chloride, Analytical standard		
Synonyms	Dichloroacetyl Chloride		
CAS No	79-36-7		
Product code	SYI0052	**Batch No**	LDIBF0217
Molecular Formula	C_2HCl_3O	**Molecular Weight**	147.38
Mfg. Date	Feb-26	**Expiry Date**	Jan-29
Storage Conditions	Store at room temperature, tightly closed container		

Test	Specification	Results
Description	Clear colorless to light yellow liquid	Clear light yellow liquid
Boiling Point	108 °C	108 °C
Specific Gravity at 20°C	1.53 g/ml	1.53 g/ml
Purity by GC	≥98.00%	98.12%
IR Spectrum	Identification by structure	Confirmed
1H NMR Spectra	Identification by structure	Confirmed
Mass Spectra	Identification by molecular weight	Confirmed

Reference to *USP* 30–*NF* 25 General Chapter <11>, "Reference Standards," As a result, noncompendial (secondary) reference standards require characterization data. This product should not use for clinical application.

Approved by
Dr. Gopinath PH. D

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Computer Generated document, Does not require any Signature.

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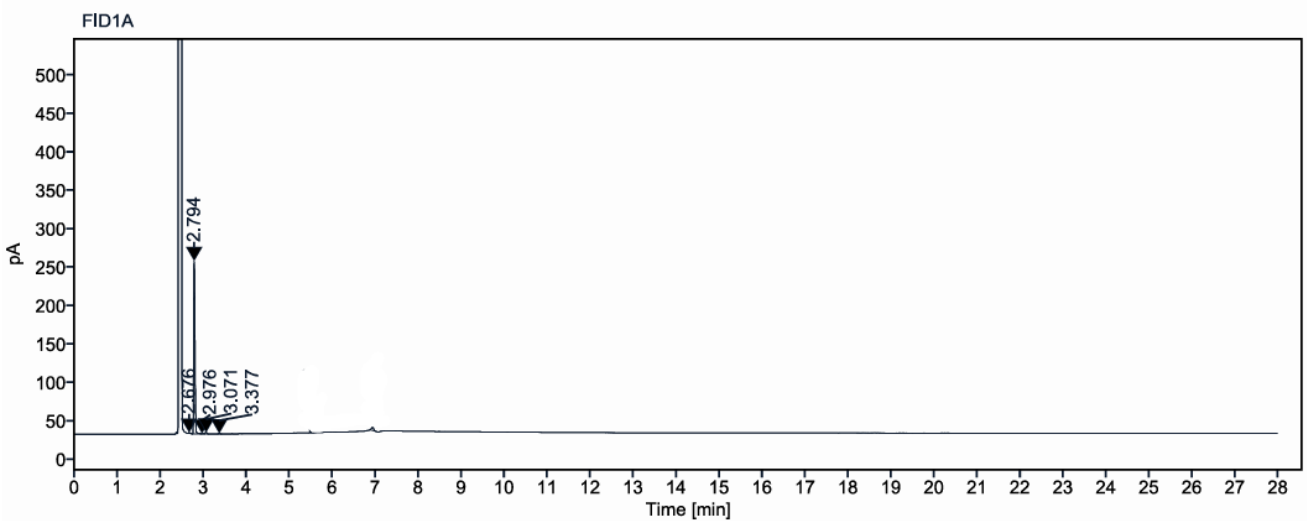
ANALYTICAL GC REPORT

Agilent

Data file:	LDIBF0217.dx
Method Name:	HP-5-GENERAL-METHOD.amx
Sample Name:	LDIBF0217
Injection Acquired Date	2026-02-20 16:51:06+05:30
Injection Processed Date	2026-02-20 18:22:52+05:30
Inj. volume:	0.500 µL
Vial Number:	109
Data File Directory:	/2026/FEB-2026/Results/20022026/20260220 154757004.rslt
Injection Column Name	HP-5
Instrument ID	SA/AD/INS/037



RT[MIN]	AREA	AREA %
2.676	2.670	0.50
2.794	502.027	**98.12**
2.976	1.267	0.24
3.071	4.544	0.85
3.377	1.574	0.29

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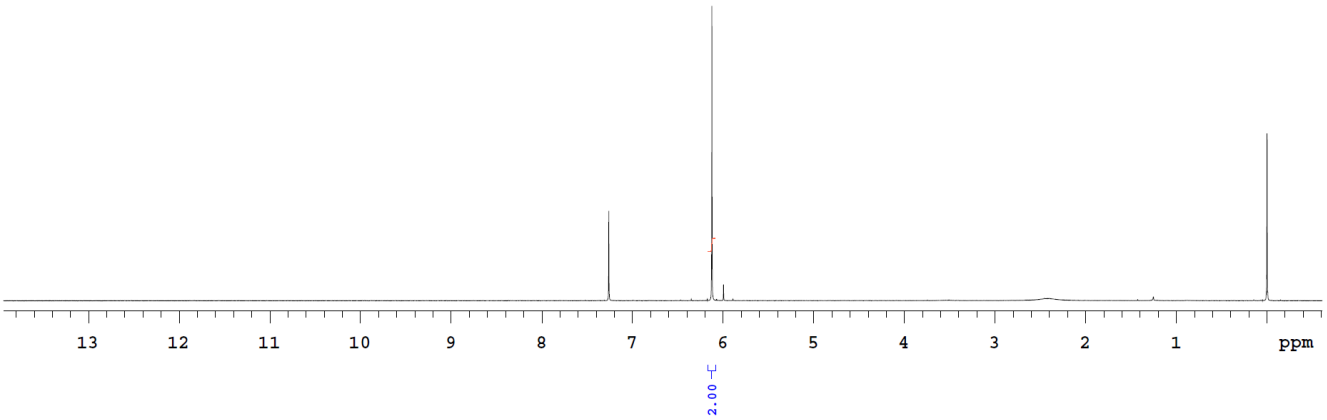
Identification by NMR: H1NMR

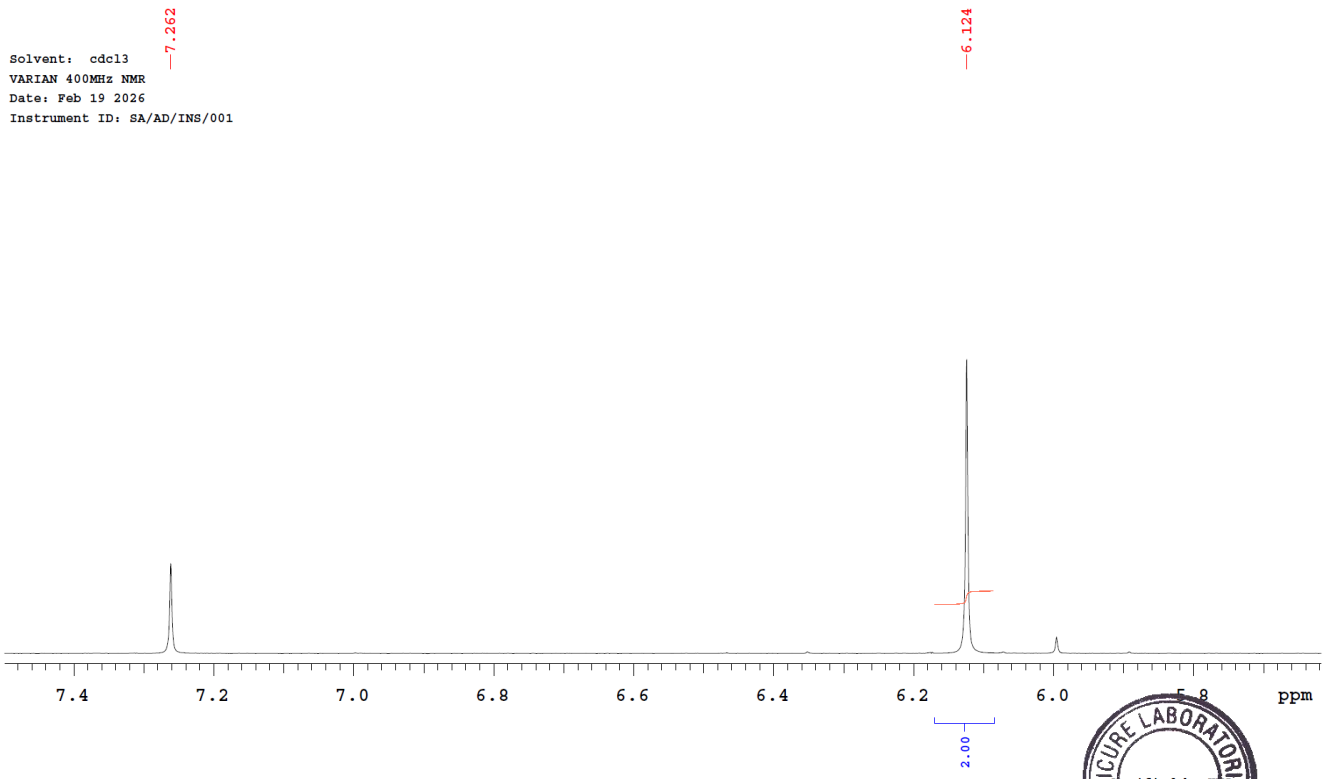
Sample Code: LDIBF0217

Solvent: cdcl3
VARIAN 400MHz NMR
Date: Feb 19 2026
Instrument ID: SA/AD/INS/001



Sample Code: LDIBF0217

Solvent: cdcl3
VARIAN 400MHz NMR
Date: Feb 19 2026
Instrument ID: SA/AD/INS/001



Plotname: LDIBF0217_PROTON_20260219_01_plot02

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Verified by:K

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Identification by NMR: H1NMR

```
exp2  PROTON

      SAMPLE          PRESATURATION
date    Feb 19 2026  satmode          n
solvent      cdcl3   wet              n
file /home/varian/~       SPECIAL
data/2026/Feb/LDIB~ temp       not used
F0217_20260219_01/~ gain            30
LDIBF0217_PROTON_2~ spin            20
    0260219_01.fid  hst          0.008
   ACQUISITION      pw90        13.700
sw          7183.9  alfa        10.000
at           4.000        FLAGS
np           57472  il               n
fb            4000  in               n
bs               2  dp               y
d1           1.000  hs              nn
nt             128      PROCESSING
ct               8  lb            0.50
   TRANSMITTER      fn         not used
tn              H1       DISPLAY
sfrq       399.689  sp          -793.6
tof          799.3  wp          7183.7
tpwr            59  rfl          793.9
pw           6.850  rfp             0
    DECOUPLER       rp           138.8
dn              C13  lp              0
dof               0          PLOT
dm              nnn  wc            268
decwave W40_GATB-0~ sc              0
                 12  vs            484
dpwr             35  th              3
dmf           29412  ai    ph
```

INDEX	FREQUENCY	PPM	HEIGHT
1	2902.5	7.262	18.2
2	2447.8	6.124	59.8
3	-0.0	-0.000	33.9

Plotname: LDIBF0217_PROTON_20260219_01_plot03

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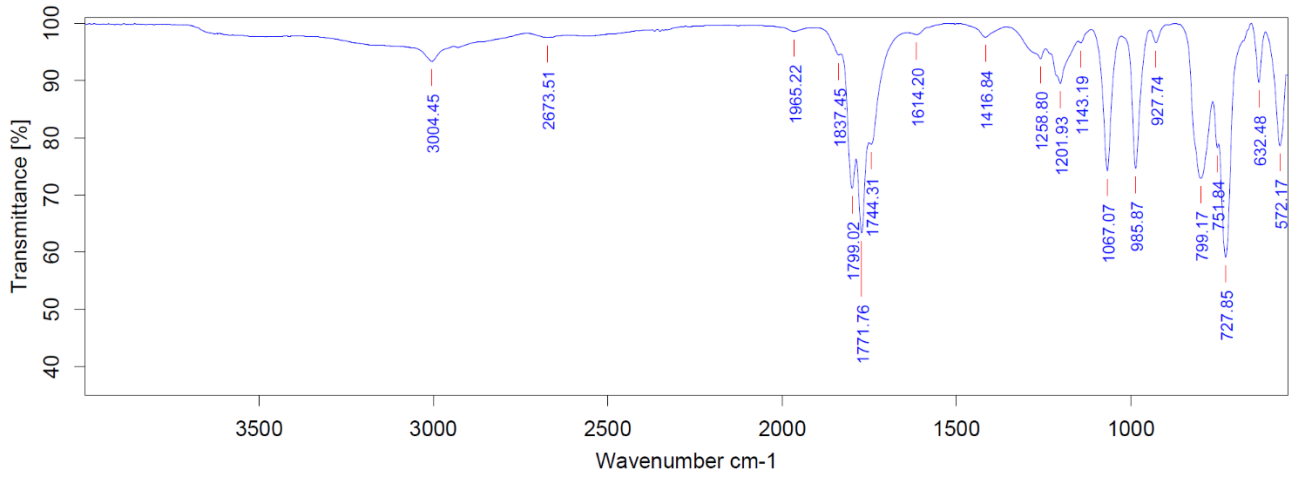
Identification by Infrared Spectroscopy (IR)



Path/File Name:D:\2026\FEB-2026/LDIBF0217.0

Sample Name:LDIBF0217

Lot No./Batch No:LDIBF0217

Date & Time:2/19/2026,7:39:42 PM

Experiment:FEBRUARY-2026-.XPM

Resolution:2

Sample Scans:16

"D:\2026\FEB-2026\LDIBF0217.0" 1
Peak Table TR
Peak Picking

Peak Picking	Values
Method:	Standard
Searched for minima:	Yes
Number of peaks:	20
Sensitivity > [%]:	10.000000
From:	4000.000000
to:	400.000000
Absolute peak height >	0.000000
Relative peak height < [%]	0.000000
Absolute peak height <	0.000000

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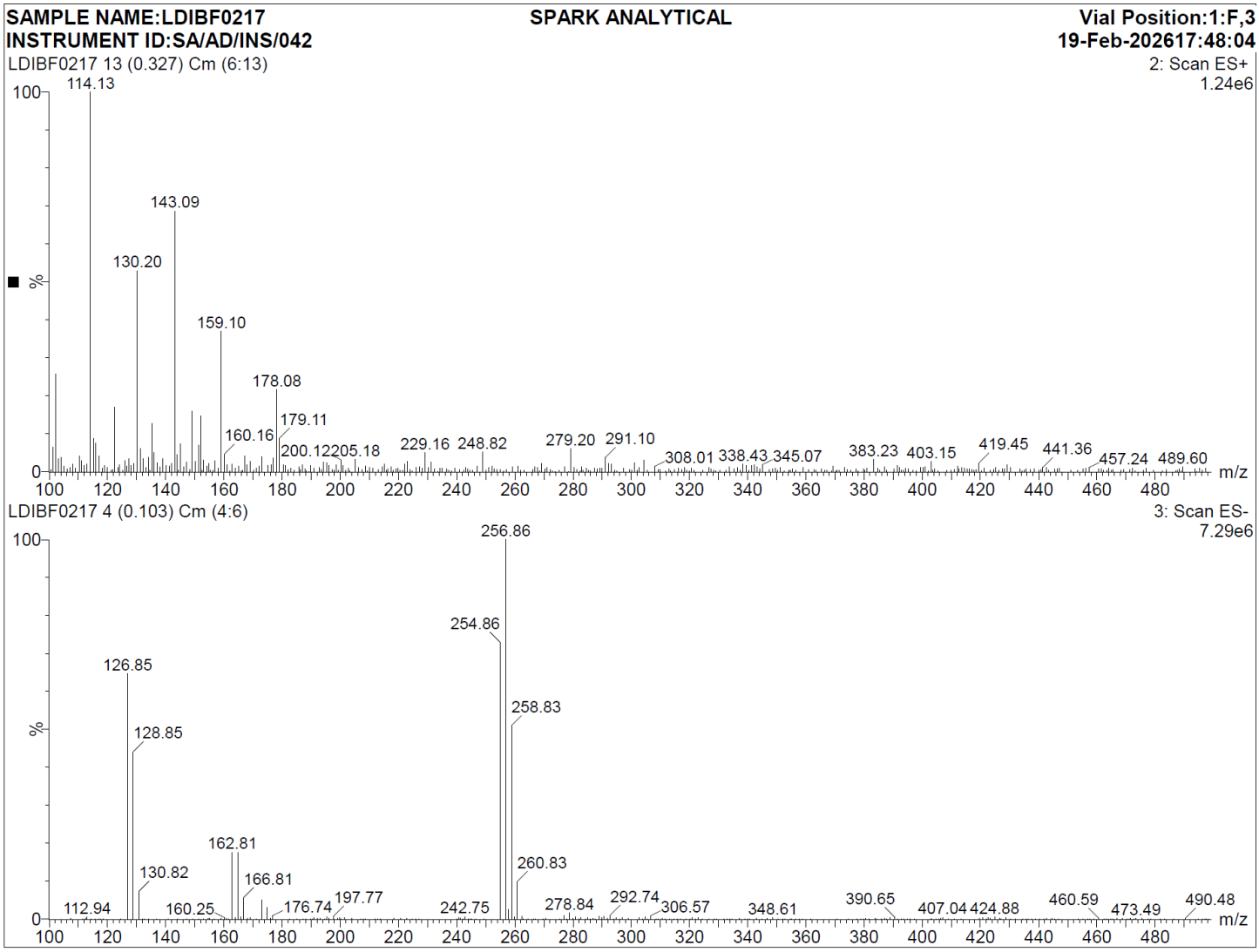
Identification by Mass spectrometry (MS)



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