

Name:	Cis-4-Amino-5-chloro-N-{1-[3-(4-fluorophenoxy)propyl]-3-methoxy-1-methylpiperidinium-4-yl]-2-methoxybenzamide iodide (Cisapride Impurity 7; CQ RC 9)
Lot#:	GR-16-173
Test Date:	10/05/2021 (re-test date: 10/05/2026)
CAS No.:	86718-76-5
MF:	C ₂₄ H ₃₂ ClFIN ₃ O ₄
MW:	607.88
Appearance:	White solid
Purity:	99.8% by HPLC (average of two sample preparations; sum of axial and equatorial isomers)
¹H-NMR:	Conforms (contains a trace of ACN; shows a mixture of axial and equatorial isomers)
FTIR:	Attached
MS-ESI (+)	Conforms (shows peaks at m/z = 480.20 and 482.20 [M-I] ⁺ ; exhibits the expected pattern for mono- chlorinated compounds)
Storage	Long term store at 0 - 5° C in a dry place away from direct sunlight

Approved by:

Date: 12/08/2021



Viorica Rusu, QC/QA Manager

GR-16-173

8.16
8.15
8.11
8.10

7.72
7.71

7.14

6.97

6.50

6.03

4.23

4.04
4.03

4.02

3.94

3.91

3.85

3.84

3.75

3.53

3.47

3.44

3.30

3.18

3.06

2.49

2.22

2.14

2.05

1.98

CQ-RC9
1H-NMR, 600 MHz
Solvent: DMSO-D6
Lot No.: GR-16-173

0.78
0.19

0.83

1.96

2.00

0.98

2.00

0.97

2.04

0.99

3.08

1.45

8.01

2.50

0.54

1.53

0.40

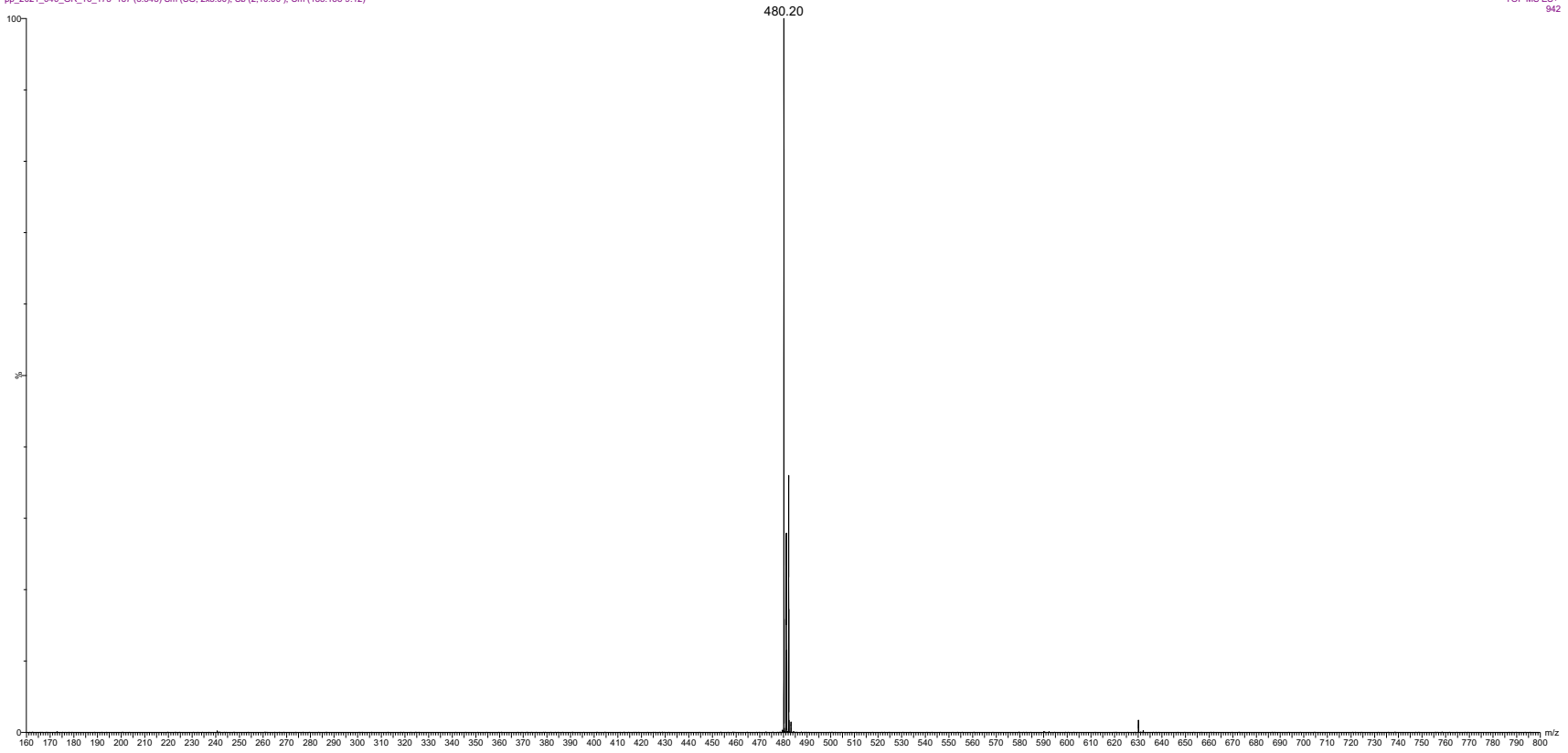
0.89

2.01

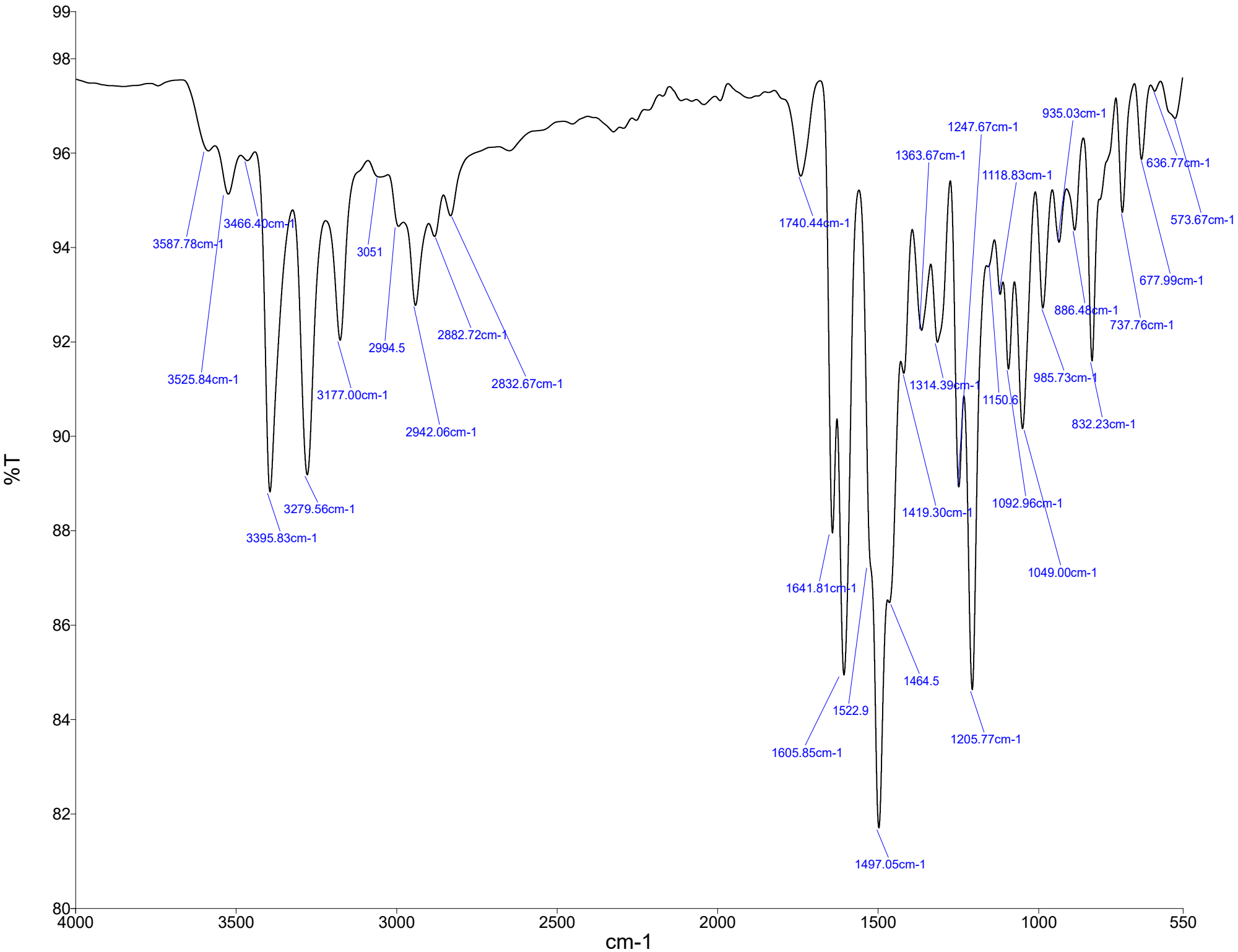
9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0

f1 (ppm)

450
400
350
300
250
200
150
100
50
0



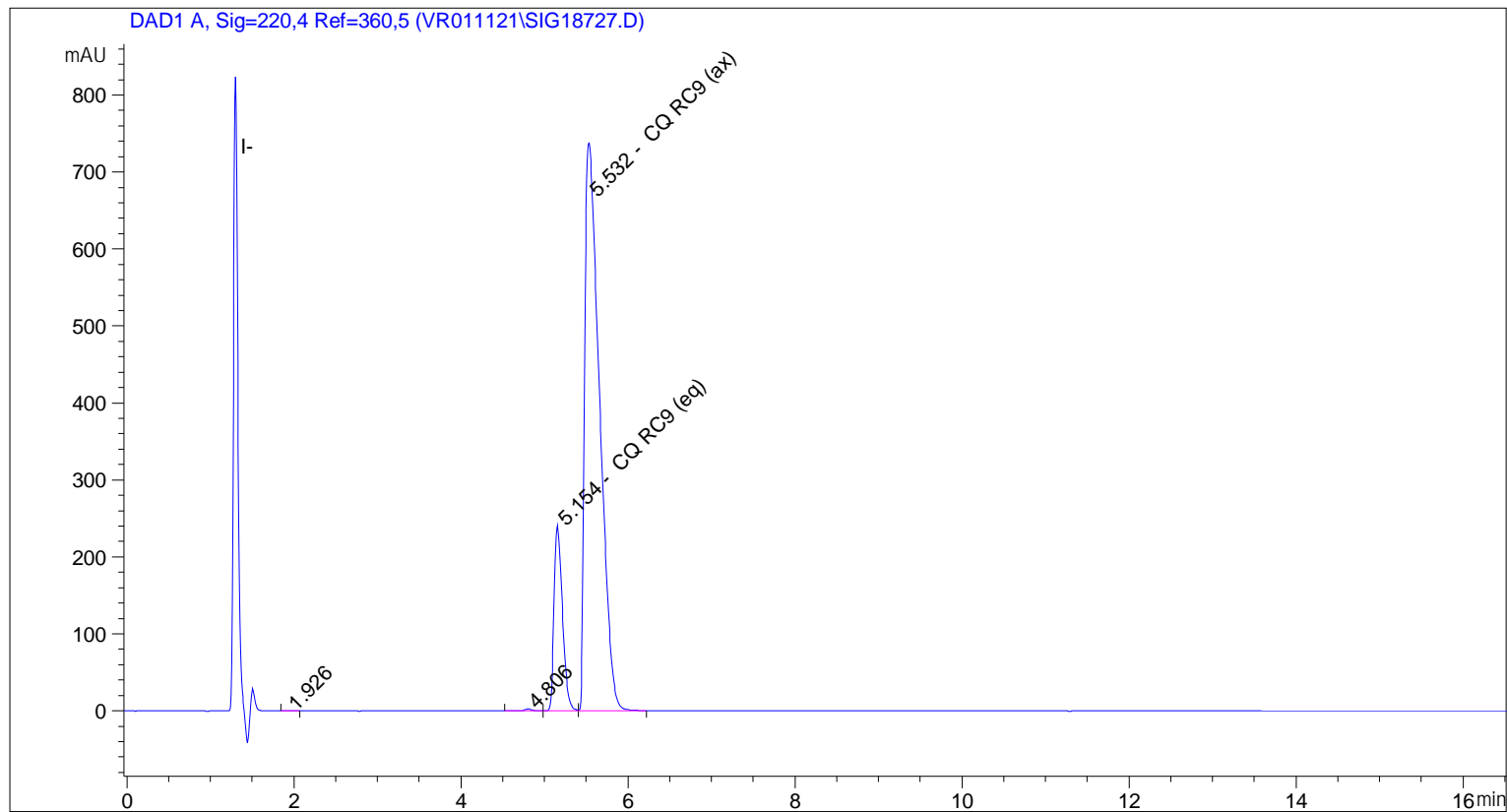
ESI-MS spectrum for sample GR-16-173. Shows monoisotopic $[M+H]^+$ mass.



Name Description
GR-16-173 Sample 560 By Analyst Date Thursday, December 02 2021

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=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 94
Injection Date  : 10/5/2021 9:13:33 AM
                                           Inj Volume : 7.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR100521_173.M
Last changed    : 10/5/2021 9:12:36 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR100621_173PM.M
Last changed    : 10/6/2021 7:33:31 AM by vrusu
  
```



=====
 Area Percent Report
 =====

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Sorted By           :      Signal
Calib. Data Modified :      10/6/2021 7:33:04 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=220,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	1.926	BB	0.0815	2.62012	0.0241	?
2	4.806	BB	0.1046	17.72118	0.1629	?
3	5.154	BV	0.1099	1688.90588	15.5207	CQ RC9 (eq)
4	5.532	VB	0.1910	9172.37305	84.2923	CQ RC9 (ax)

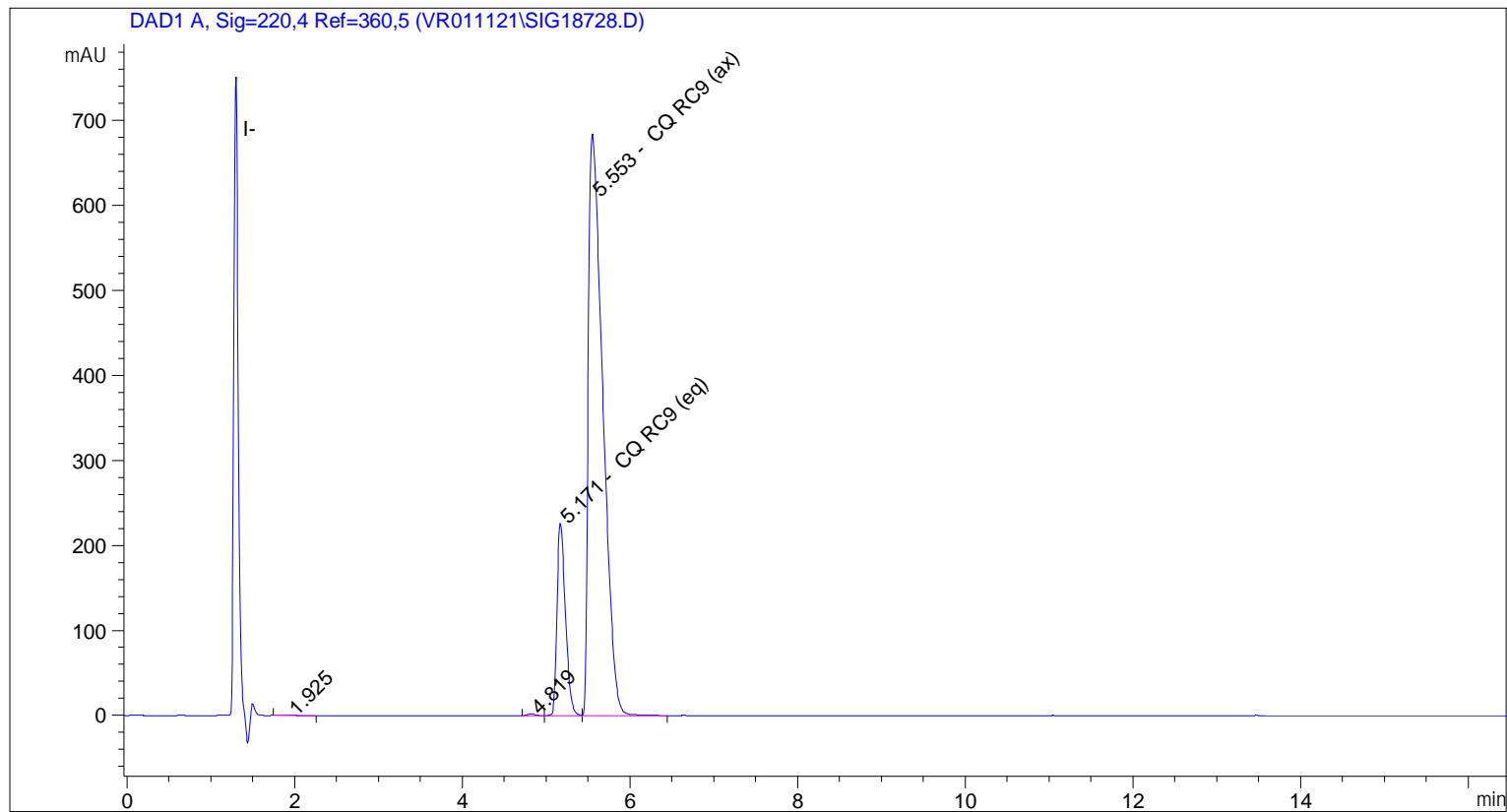
Totals : 1.08816e4

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*** End of Report ***

```

=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 95
Injection Date  : 10/5/2021 9:38:37 AM
                                           Inj Volume : 7.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR100521_173.M
Last changed    : 10/5/2021 9:37:31 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR100621_173PM.M
Last changed    : 10/6/2021 7:33:31 AM by vrusu
  
```



=====
 Area Percent Report
 =====

```

Sorted By           :      Signal
Calib. Data Modified :      10/6/2021 7:33:04 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=220,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	1.925	BB	0.1308	5.74322	0.0586	?
2	4.819	BV	0.0937	12.17888	0.1242	?
3	5.171	VV	0.1074	1578.34753	16.0978	CQ RC9 (eq)
4	5.553	VB	0.1838	8208.48047	83.7194	CQ RC9 (ax)

Totals : 9804.75010

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*** End of Report ***