

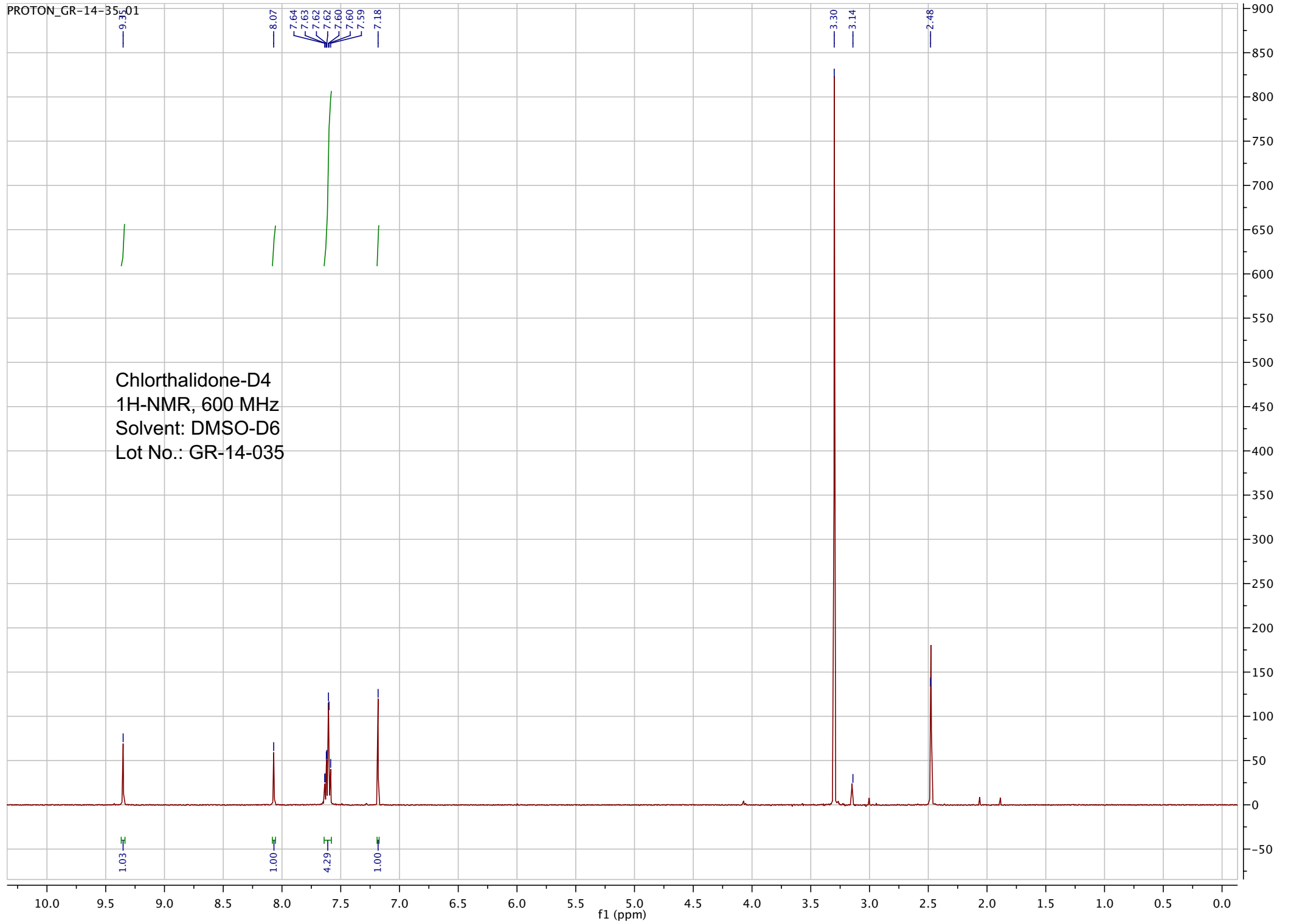
Name:	Chlorthalidone-D4
Lot#:	GR-14-035
Test Date:	01/02/2024 (re-test date: 01/02/2029)
CAS No.:	1794941-44-8
MF:	C ₁₄ H ₇ D ₄ ClN ₂ O ₄ S
MW:	342.79
Appearance:	White Solid
Purity:	97.5% by HPLC (average of two sample preparations); >98% atom D
¹H-NMR:	Conforms (shows a trace of MeOH)
MS-ESI (-)	Conforms (shows peaks at m/z = 341.04 and 343.05 [M-H] ⁻ ; shows expected isotope pattern for mono-chloro compounds)
Storage	Store at -20°C in a dry place away from direct sunlight

Approved by:

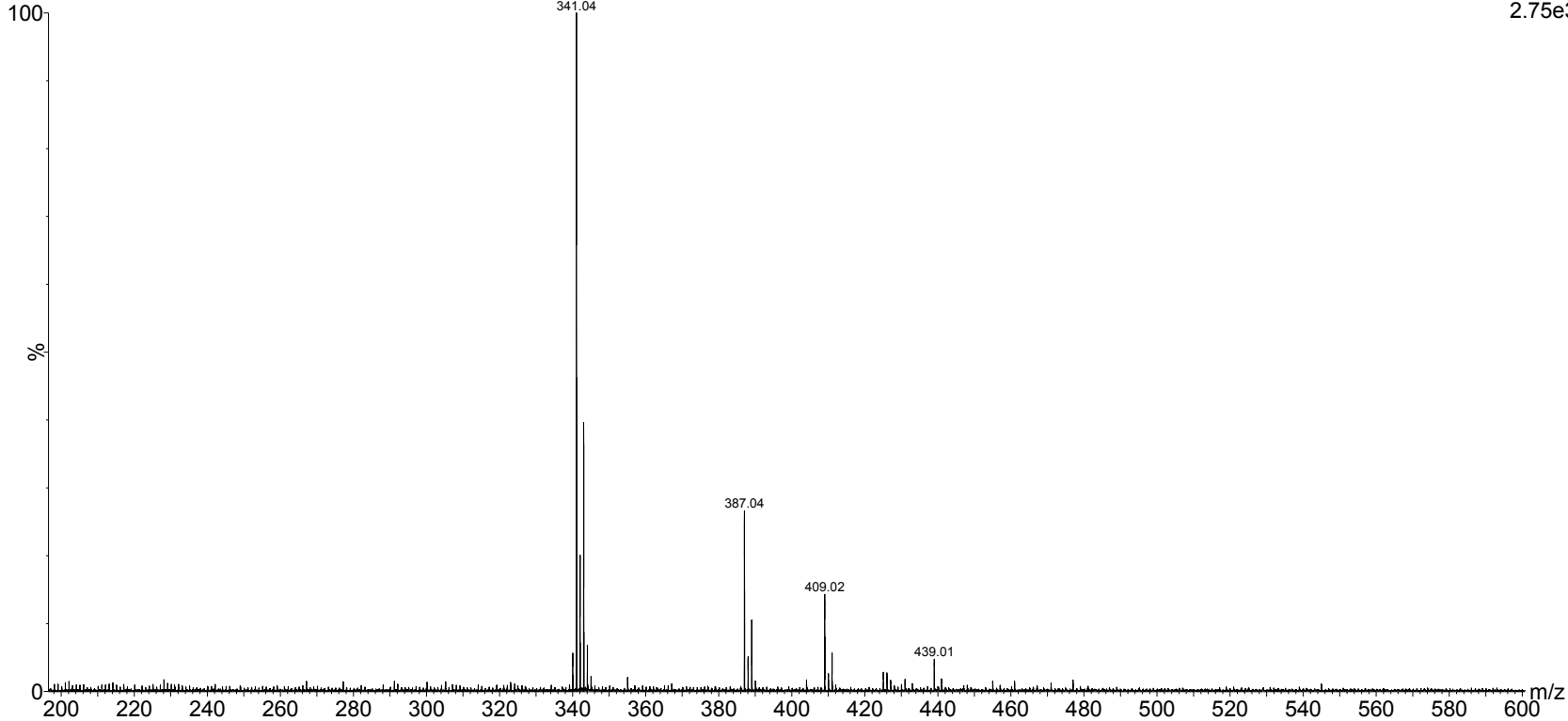
Date: 01/02/2024



Viorica Rusu, QC/QA Manager

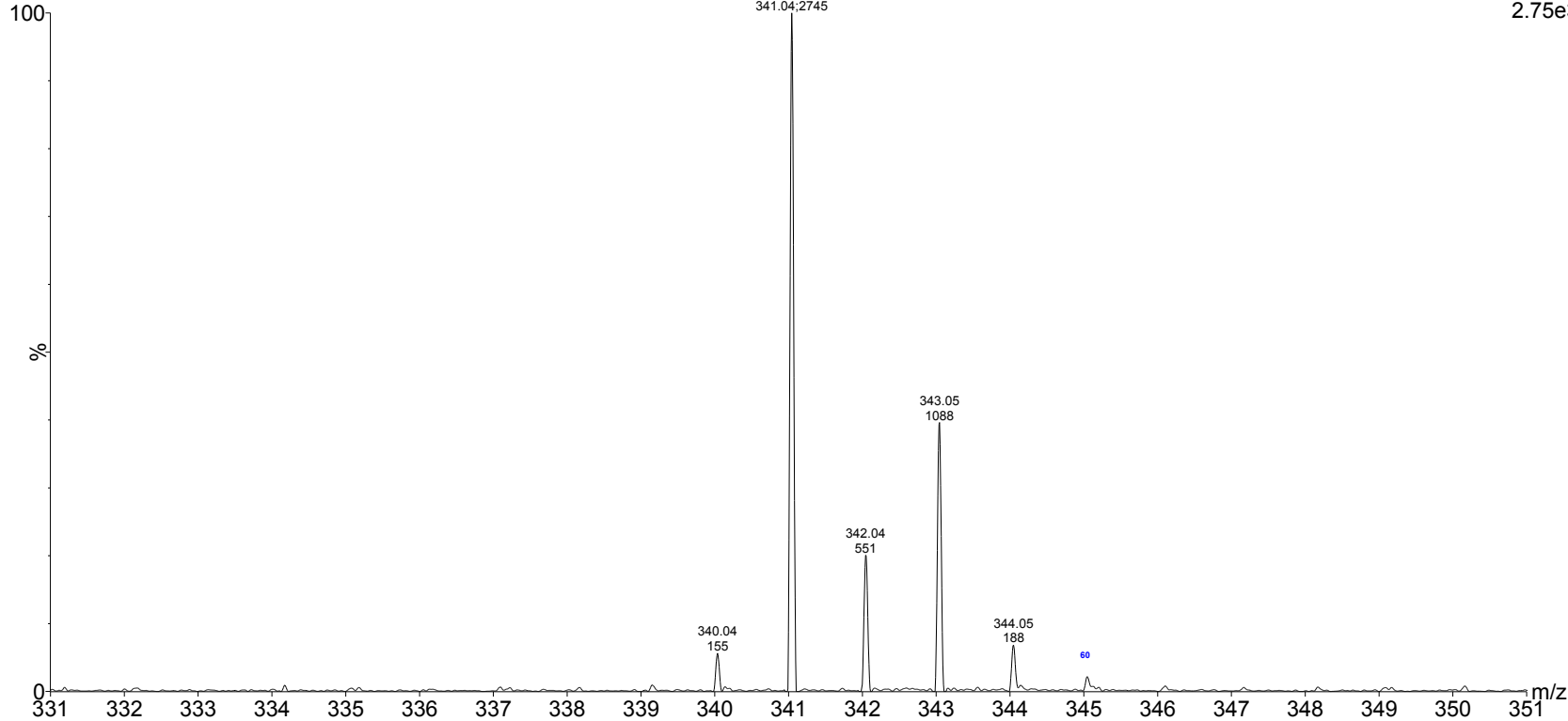


pp_2019_098_GR_14_35_neg_1 197 (3.774) Sm (SG, 2x5.00); Sb (2,10.00); Cm (195:205-5:15)



ESI-MS spectrum for sample GR-14-35. Shows monoisotopic [M-H]- mass.

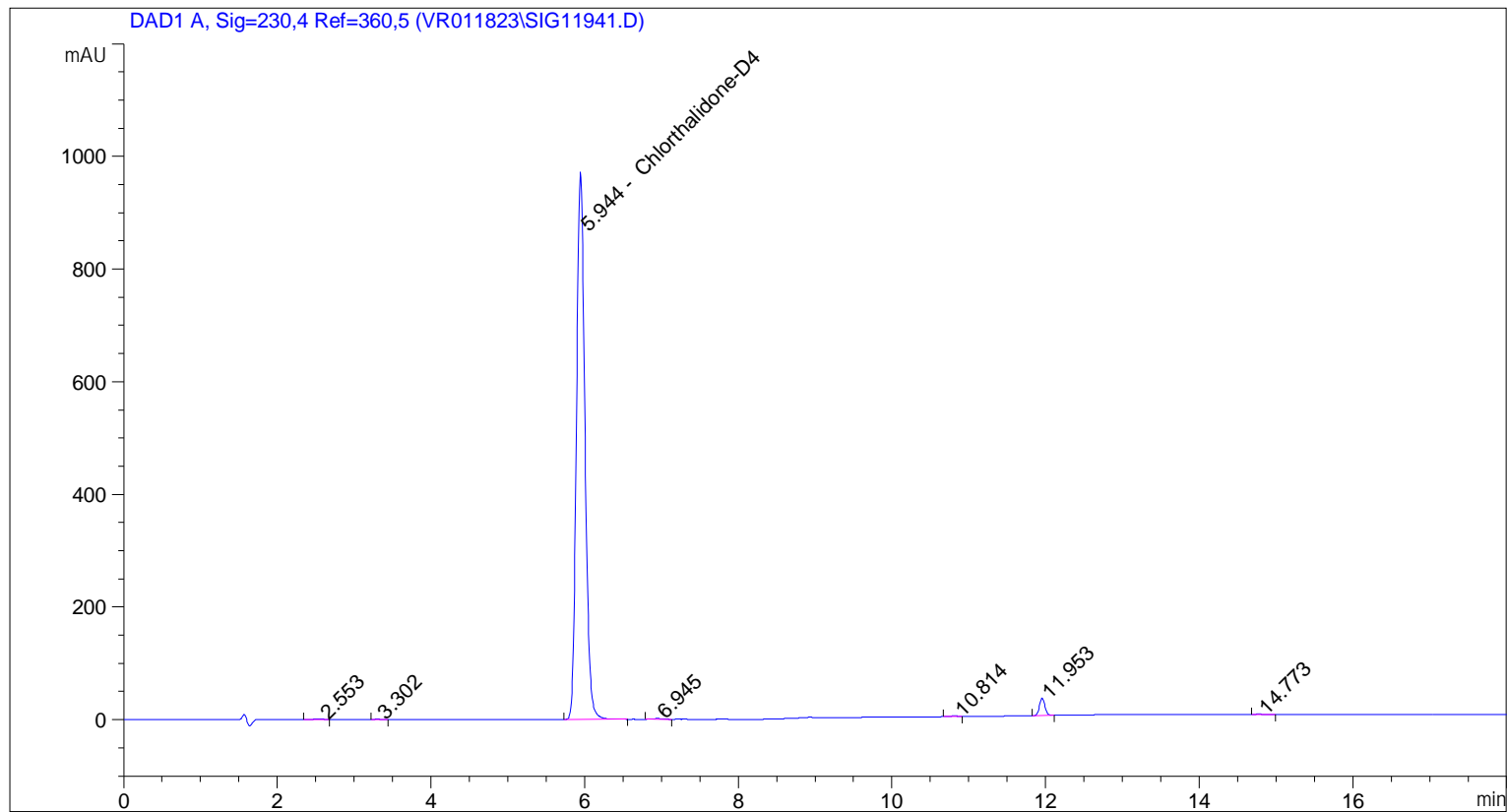
pp_2019_098_GR_14_35_neg_1 197 (3.774) Sm (SG, 2x5.00); Sb (2,10.00); Cm (195:205-5:15)



Expansion of above showing intensity labels.

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=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 2
Injection Date  : 1/2/2024 8:17:02 AM
                                           Inj Volume : 5.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR010224_035.M
Last changed    : 1/2/2024 8:16:00 AM by vrusu
Analysis Method  : C:\CHEM32\1\METHODS\VR010224_035PM.M
Last changed    : 1/2/2024 9:32:45 AM by vrusu
  
```



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 Area Percent Report
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Sorted By           :      Signal
Calib. Data Modified :      1/2/2024 9:31:20 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=230,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	2.553	BB S	0.1063	7.19911	0.0940	?
2	3.302	BB	0.0735	2.57931	0.0337	?
3	5.944	BB	0.1197	7475.17480	97.5675	Chlorthalidone-D4
4	6.945	BB	0.1287	10.19827	0.1331	?
5	10.814	BB	0.0821	7.08780	0.0925	?
6	11.953	BB	0.0760	153.42174	2.0025	?
7	14.773	BB	0.1041	5.88398	0.0768	?

Sample Name: GR-14-035

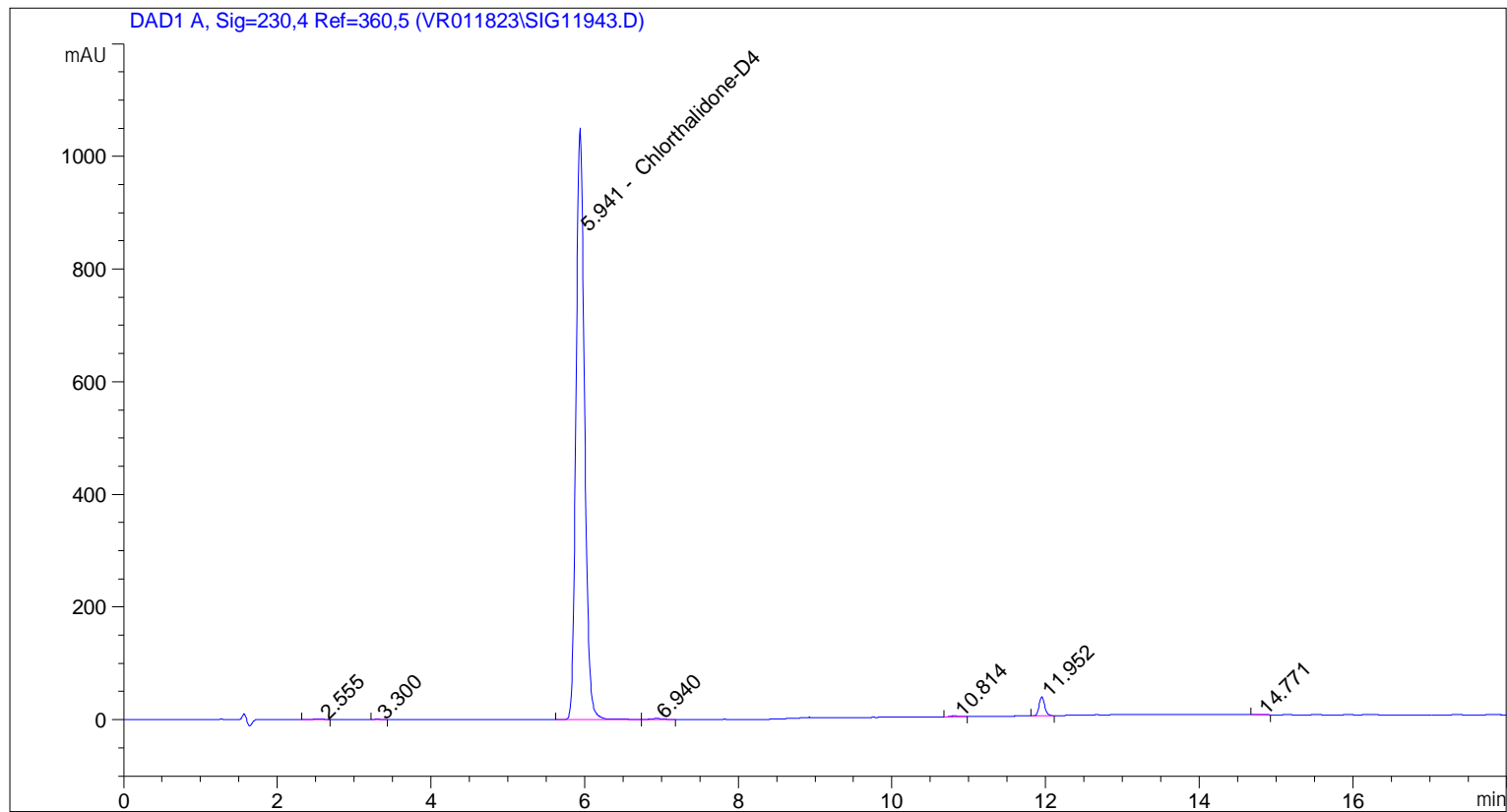
Totals : 7661.54502

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*** End of Report ***

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=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 3
Injection Date  : 1/2/2024 9:07:24 AM
                                           Inj Volume : 5.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR010224_035.M
Last changed    : 1/2/2024 9:06:17 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR010224_035PM.M
Last changed    : 1/2/2024 9:32:45 AM by vrusu
  
```



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 Area Percent Report
 =====

```

Sorted By           :      Signal
Calib. Data Modified :      1/2/2024 9:31:20 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=230,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	2.555	BB S	0.1180	10.29568	0.1240	?
2	3.300	BB	0.0773	2.80571	0.0338	?
3	5.941	BV	0.1200	8096.91699	97.5023	Chlorthalidone-D4
4	6.940	VB	0.1346	11.75314	0.1415	?
5	10.814	BB	0.0875	8.80518	0.1060	?
6	11.952	BB	0.0782	167.76646	2.0202	?
7	14.771	BB	0.0954	5.98869	0.0721	?

Sample Name: GR-14-035 spl-2

Totals : 8304.33185

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*** End of Report ***