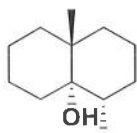


Certificate of Analysis

Name of Product: (±)-Geosmin		Lot Number: XL-27-31A-071808
Manufacture Date: 07/18/08	Retested On: 01/25/24	Next Retest Date: 01/24/29
Recommended Storage Conditions: <input checked="" type="checkbox"/> Ambient atmosphere <input type="checkbox"/> Inert atmosphere <input type="checkbox"/> Ambient temperature <input type="checkbox"/> 2-8°C (refrigeration) <input checked="" type="checkbox"/> -20°C or below (freezer)		

Structure: 	Molecular Formula: C ₁₂ H ₂₂ O
	Molecular Weight: 182.30
	CAS Number: 16423-19-1

Appearance: Colorless liquid
Purity: 99.3% by AUC by GC
Identity: ¹H-NMR - conforms to structure
MS(ESI+ve): [M-H₂O+H]⁺ = 165.2 - conforms to structure

Dalton Pharma Services hereby certifies that the above information is authentic and accurate.

 Zemin Li, Ph.D., R&D Supervisor	Date: 02/05/24
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Product name: (±)-Geosmin
 Lot number: XL-27-31A-071808

RDS#03031
 Page 1 of 1

Research Use Only. Not For Food and Drug Use.

349 Wildcat Rd., Toronto, ON M3J 2S3 • Tel: 416-661-2102 • 1-800-567-5060 • Fax: 416-661-2108
 www.dalton.com

XL-27-31A, CDCl3, 01/25/24 Retest



C₁₂H₂₂O

7.284

1.679
1.639
1.585
1.445
1.239
1.046
0.996
0.802

PPR
01/31/24

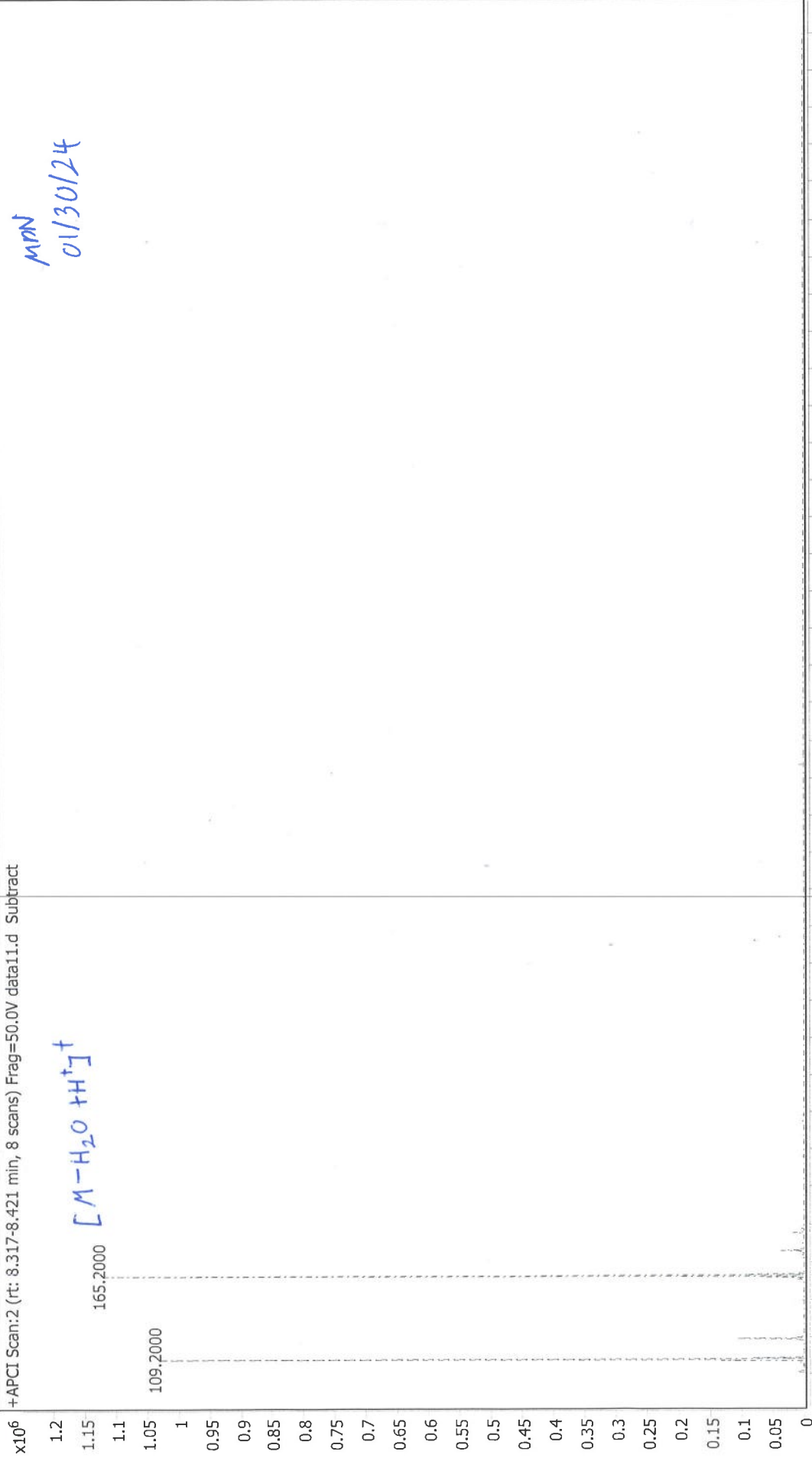
3.00
5.06
0.99
5.03
8.08

10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0

ppm (t1)

Spectrum Plot Report

Name: RDS#3031 (High Conc) Rack Pos. Instrument: Agilent LC-MS Operator: Matthew Di Nino (DALTON\MDiNino)
 Inj. Vol. (ul): 20 Plate Pos. Method (Acq): Geosmin APCI.m IRM Status: Comment: Acq. Time (Local): 01/30/24 2:35:13 PM
 Data File: data11.d Substract



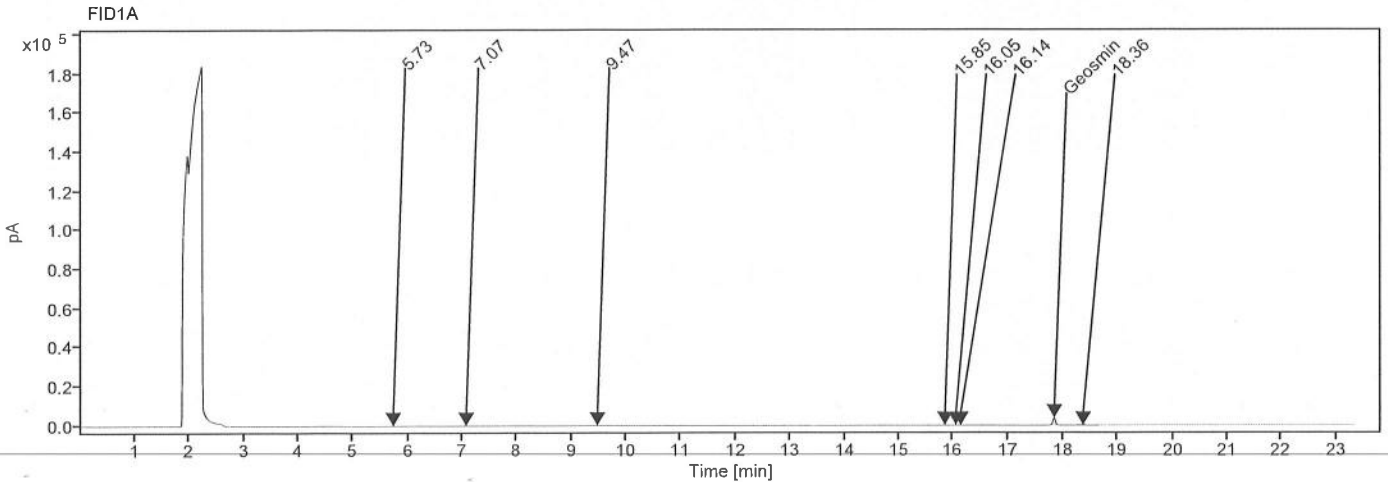
100 125 150 175 200 225 250 275 300 325 350 375 400 425 450 475 500 525 550 575 600 625 650 675 700 725 750 775 800 825 850 875 900 925 950 975 1000
 Counts vs. Mass-to-Charge (m/z)

Dalton Sequence Summary - Extended

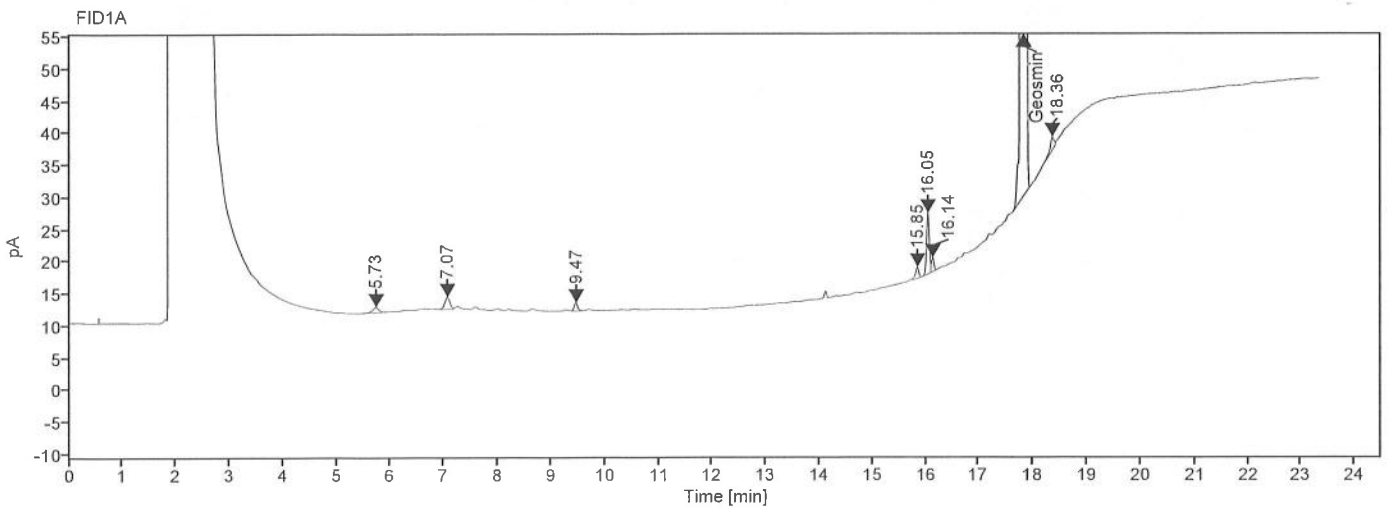


Sample name:	RDS#03031	Operator:	Matthew Di Nino (DALTONMDiNino)	<i>MdN</i> <i>01/31/24</i>
Data file:	2024-01-29 15-20-44-05-00-03.dx	Injection date:	2024-01-29 15:25:00-05:00	
Instrument:	GC#3	Location:	3	
Inj. volume:	1.000	Type:	Sample	
Acq. method:	GC-direct-Geosmin.amx	Sample amount:	0.00	
Processing method:	*Geosmin Purity.pmx			
Manually modified:	None			

Full Scale:



Custom Scale:



MNN
01/31/24

Dalton Sequence Summary - Extended

#	RT [min]	RRT	Signal	Type	Area	Peak Area Percent	Peak Height	Name
1	5.72630		FID1A	BB	6.88409	0.05399	0.81408	Unknown
2	7.06534		FID1A	BV	13.22859	0.10375	1.89682	Unknown
3	9.47047		FID1A	BB R	5.68963	0.04462	1.25888	Unknown
4	15.84816		FID1A	VV	7.24400	0.05681	1.70956	Unknown
5	16.04725		FID1A	BV	33.96773	0.26641	9.44876	Unknown
6	16.13858		FID1A	VB R	7.03271	0.05516	2.12705	Unknown
7	17.83261		FID1A	BB	12666.06950	99.34037	3676.21223	Geosmin
8	18.35680		FID1A	VV	10.05763	0.07888	2.07387	Unknown
				Sum	12750.17389	100.00		

Dalton Sequence Summary - Extended

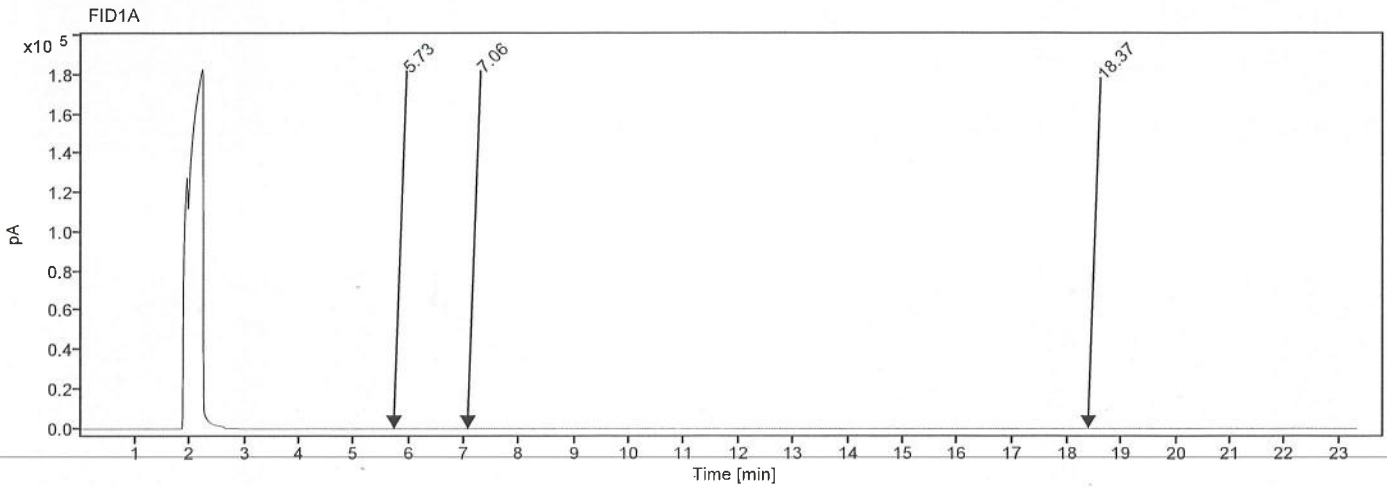


Sample name:	Blank	Operator:	Matthew Di Nino (DALTONMDiNino)
Data file:	2024-01-29 14-25-33-05-00-01-r002.dx	Injection date:	2024-01-29 14:29:47-05:00
Instrument:	GC#3	Location:	1
Inj. volume:	1.000	Type:	Blank
Acq. method:	GC-direct-Geosmin.amx	Sample amount:	0.00
Processing method:	*Geosmin Purity.pmx		
Manually modified:	None		

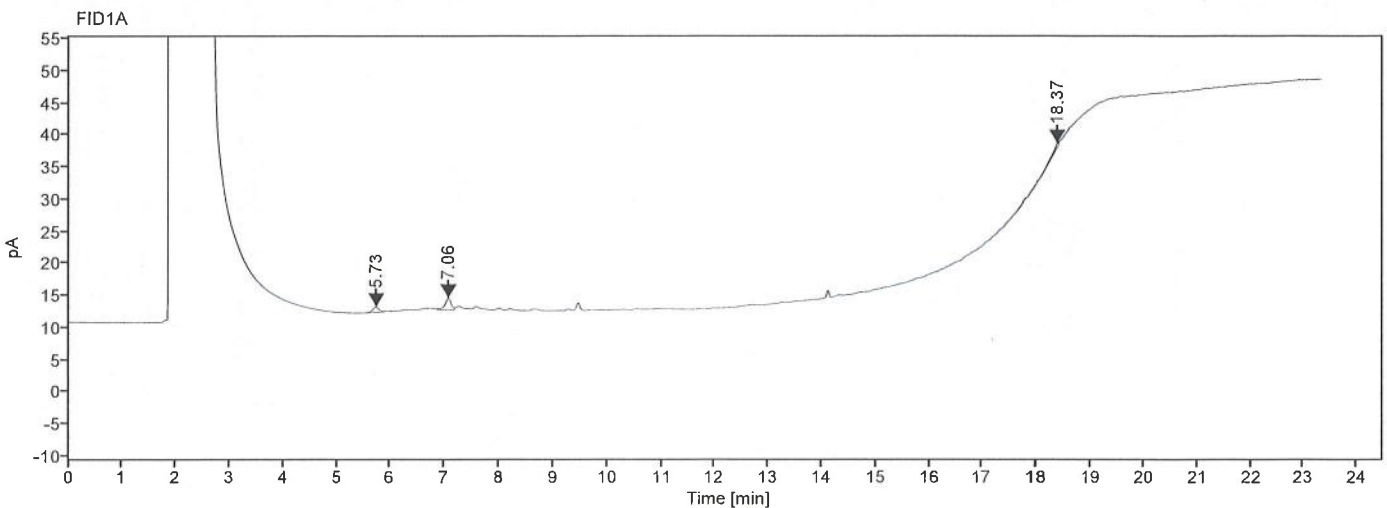
M DN
01/31/24



Full Scale:



Custom Scale:



MN
01/31/24

Dalton Sequence Summary - Extended



#	RT [min]	RRT	Signal	Type	Area	Peak Area Percent	Peak Height	Name
1	5.72810		FID1A	BV	6.50678	25.27889	0.82355	Unknown
2	7.06413		FID1A	VV	13.60143	52.84168	1.77876	Unknown
3	18.37166		FID1A	BV	5.63176	21.87943	0.65442	Unknown
				Sum	25.73997	100.00		