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Certificate of Analysis

PRODUCT NAME	alpha-lonone	Structure
PART NUMBER	00009151	
STANDARD TYPE	Analytical Standard (AS)	
LOT NUMBER	00009151-MLI	
REPORT NUMBER	CDXA-RSS-2775-02	0
SAMPLE NUMBER	CDXA-08-1008	
DATE OF SAMPLE	05/14/2008	
DATE OF RE-EVALUATION	05/14/2014 (1st); 01/03/2020 (2nd)	
DATE OF REPORT	01/22/2020	

CHEMICAL NAMES	(3E)-4-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-3-buten-2-one; α -Cyclocitrylideneacetone
CHEMICAL FORMULA	C ₁₃ H ₂₀ O
MOLECULAR WEIGHT (MW)	192.30
CHEMICAL FAMILY	Monoterpenes
CAS NUMBER	[127-41-3]
EC#(EINECS)	204-841-6
RTECS	EN0525000

ANALYTICAL RESULTS

TEST	TEST METHOD SPECIFICATION		RESULT	
GC	0.700.10.2.METH140	NA	96.3%	
Mass Spectrum	0.700.10.2.METH140	Conforms	Conforms	
Appearance NA		NA	Liquid	

STORAGE CONDITIONS

STORAGE Room Temperature in a dry place.

EXPIRATION DATE 01/2025 under the above conditions.

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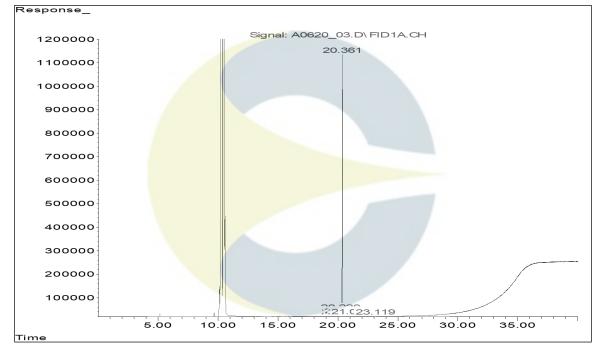
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ANALYTICAL CONDITIONS

INSTRUMENT	AGILENT 6890N WITH FLAME IONIZATION DETECTOR (FID) AND AGILENT 5973N MASS SELECTIVE DETECTOR (MSD)	
COLUMN	Phenomenex Zebron ZB-5HT Inferno, 30 m x 0.32 mm x 0.25 μ m; connected to an MXT Y-union, connected to a Restek Siltek deactivated guard column: 10 m x 0.25 mm to FID; and a 5 m x 100 μ m transfer line to MSD.	
CARRIER GAS	Helium	
COLUMN TEMP.	Isothermic 40 °C for 5.0 minutes, then increasing at 10.0 °C/minute to 340 °C. Hold at 340 °C for 5.0 minutes.	
FLOW RATE	2.0 mL/minute	
INJECTOR TEMP.	300 °C	
INJECTOR SPLIT RATIO	O 20:1	
INJECTION VOL.	1.0 μL	
INJECTION CONC.	2.8 mg/mL in CHCl₃ : n-Hexane (50:50)	
DETECTION	FID (350 °C) & MSD (Transfer line 300 °C, Source 250 °C, Quad 200 °C)	

GC CHROMATOGRAM OF ALPHA-IONONE (CDXA-08-1008)



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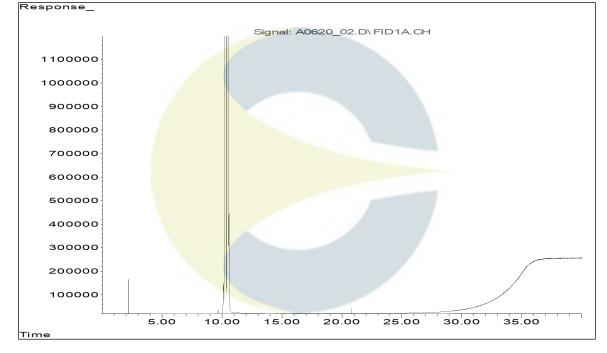


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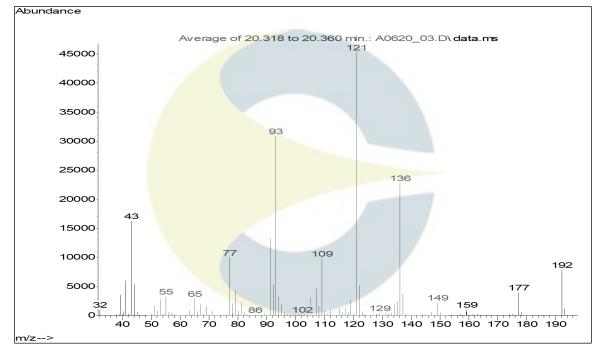
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GC CHROMATOGRAM OF DILUENT BLANK



MASS SPECTRUM OF ALPHA-IONONE (CDXA-08-1008)



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REVISION HISTORY

<u>Revision History</u>	Date of Revision	Document/Changes
00	07/22/2008	New report
01	06/05/2014	Material passed re-evaluation. Updated expiration date.
02	01/2/2020	Passed re-evaluation, removed melting point, updated method, chemical family, expiration date, chromatograms, and spectrum.

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