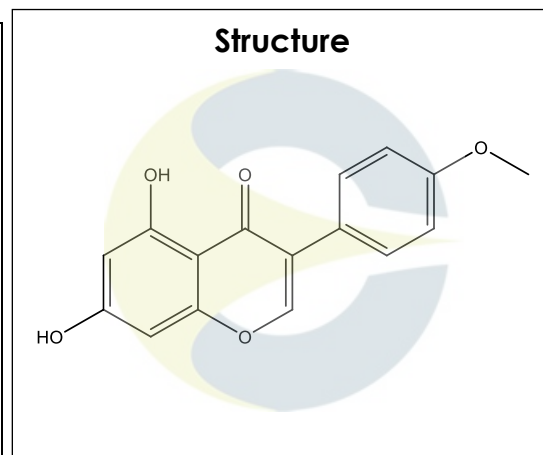


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<b>PRODUCT NAME</b>	Biochanin A
<b>PART NUMBER</b>	00002277
<b>STANDARD TYPE</b>	Primary (P)
<b>LOT NUMBER</b>	00002277-059
<b>REPORT NUMBER</b>	CDXA-RSS-9056-00
<b>SAMPLE NUMBER</b>	CDXP-20-00414
<b>DATE OF SAMPLE</b>	06/11/2020
<b>DATE OF REPORT</b>	07/28/2020



<b>CHEMICAL NAMES</b>	5,7-Dihydroxy-3-(4-methoxyphenyl)- 4H-1-benzopyran-4-one; 5,7-Dihydroxy-4'-methoxy-isoflavone; 4'-Methylgenistein; Genistein 4-methyl ether; Olmelin
<b>CHEMICAL FORMULA</b>	C <sub>16</sub> H <sub>12</sub> O <sub>5</sub>
<b>MOLECULAR WEIGHT (MW)</b>	284.26
<b>CHEMICAL FAMILY</b>	Isoflavones
<b>CAS NUMBER</b>	[491-80-5]
<b>EC#(EINECS)</b>	207-744-7
<b>RTECS</b>	DJ3002500

**ANALYTICAL RESULTS**

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	96.5%
HPLC	0.700.10.2.METH22	NA	98.4%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.12.27	Conforms	Conforms
Residual Solvent*	USP <467>	NA	Acetonitrile – 1.8% Ethanol – 0.1%
Water	0.700.12.37	NA	ND
Appearance	NA	NA	Tan powder

\*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 96.5% IS BASED ON (100 - 1.9 SOLVENTS - 0.0 WATER) X 98.4% HPLC

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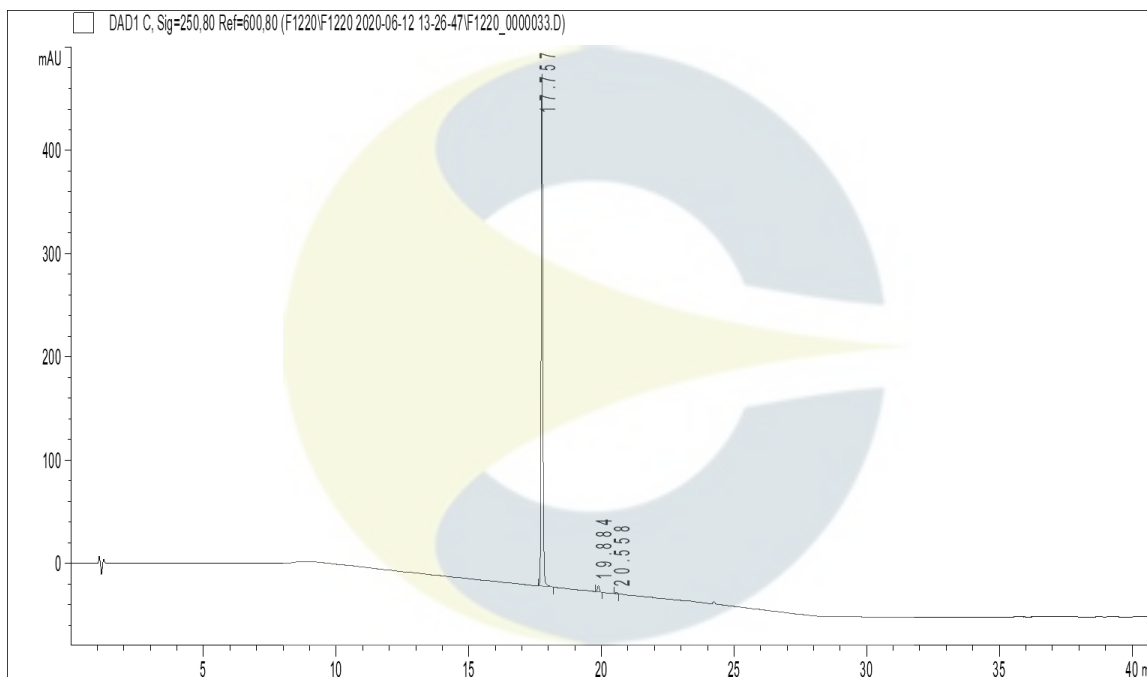
## STORAGE CONDITIONS

**STORAGE** +4 °C in a dry place.  
**EXPIRATION DATE** 06/2025 under the above conditions.

## ANALYTICAL CONDITIONS

**INSTRUMENT** AGILENT 1260 HPLC UV-VIS (DAD); AB-SCIEX 6600 TRIPLE TOF  
**COLUMN** Phenomenex Luna C18(2) 150 x 2.00 mm, 5 µm particle size  
**MOBILE PHASE** A - 0.1% Trifluoroacetic acid in Ultrapure water, B - Acetonitrile;  
 Isocratic 5% B for 5 minutes, then increasing to 95% B over 20 minutes. Hold at 95% B for 15 minutes, then decreasing to 5% B over 1 minute.  
**COLUMN TEMP.** 60 °C  
**FLOW RATE** 0.4 mL/minute  
**INJECTION VOL.** 0.2 µL  
**INJECTION CONC.** 0.97 mg/mL in Methanol  
**DETECTION** 250 ± 40 nm

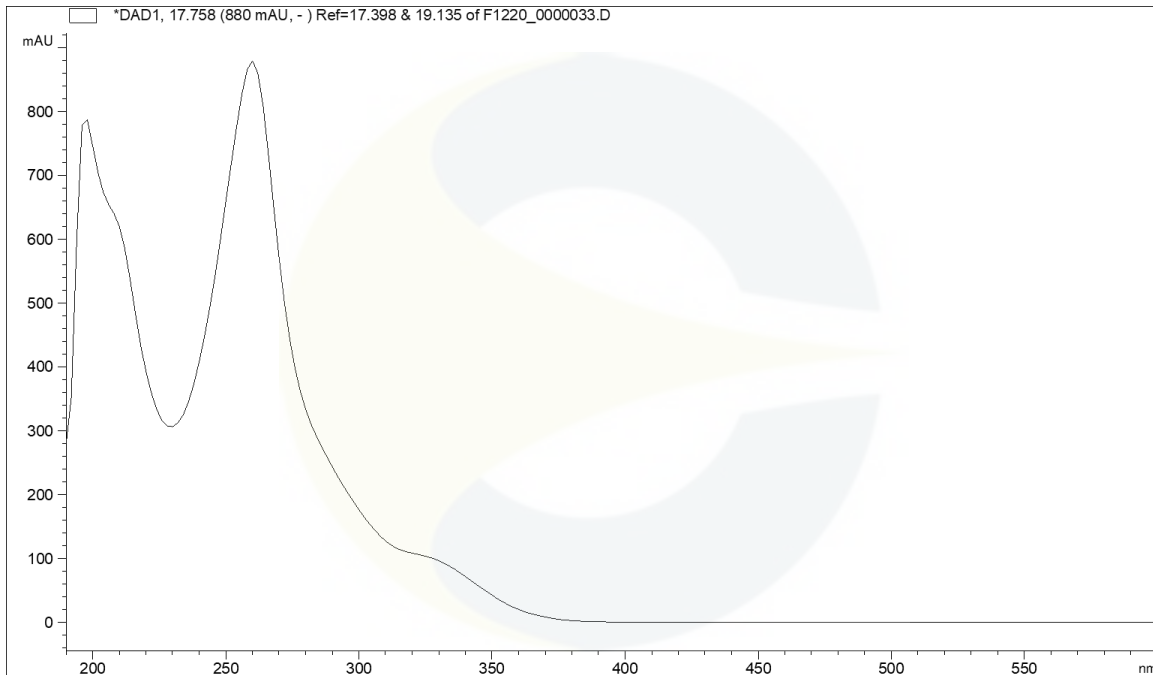
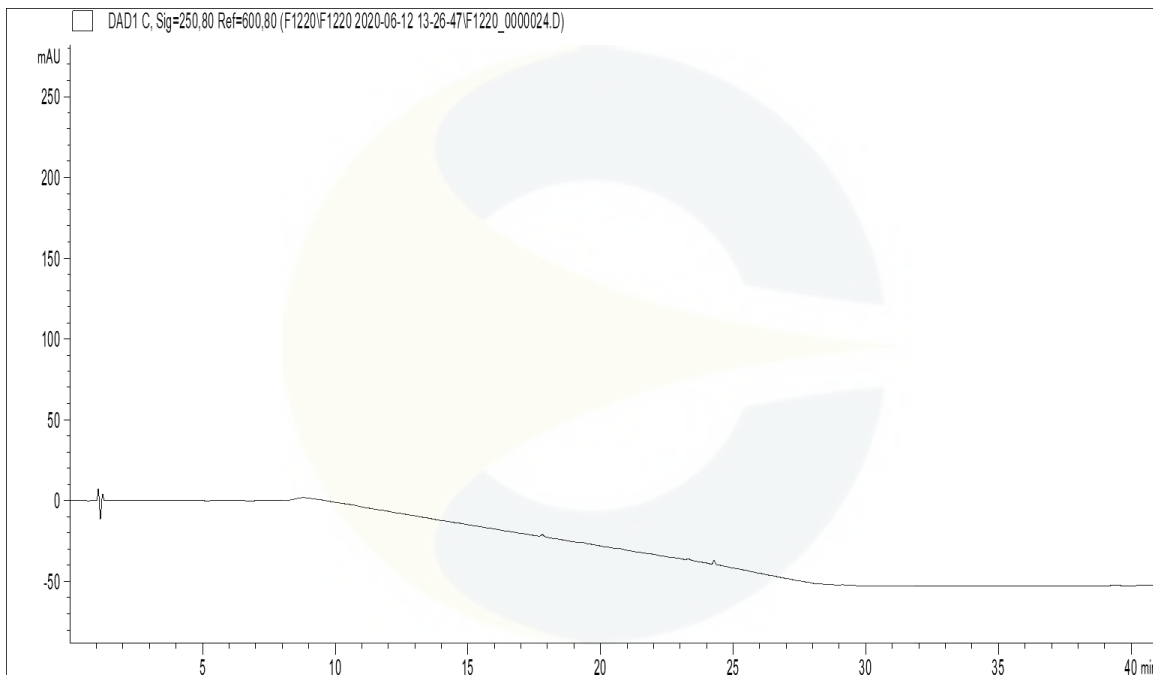
## HPLC CHROMATOGRAM OF BIOCHANIN A (CDXP-20-00414)



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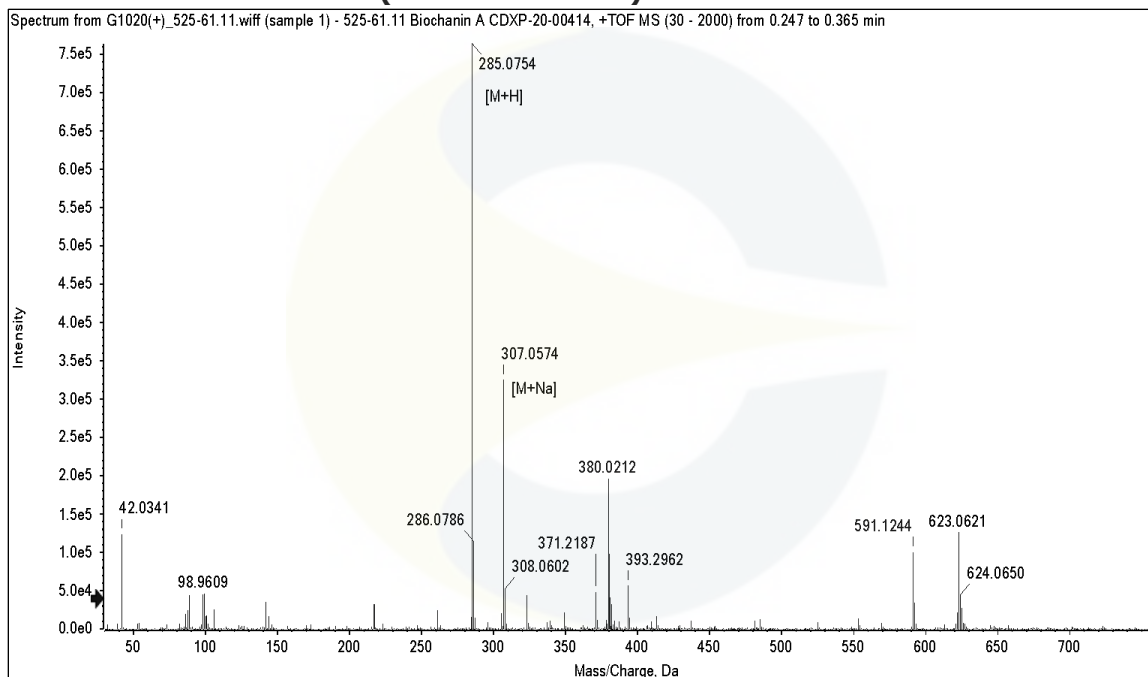
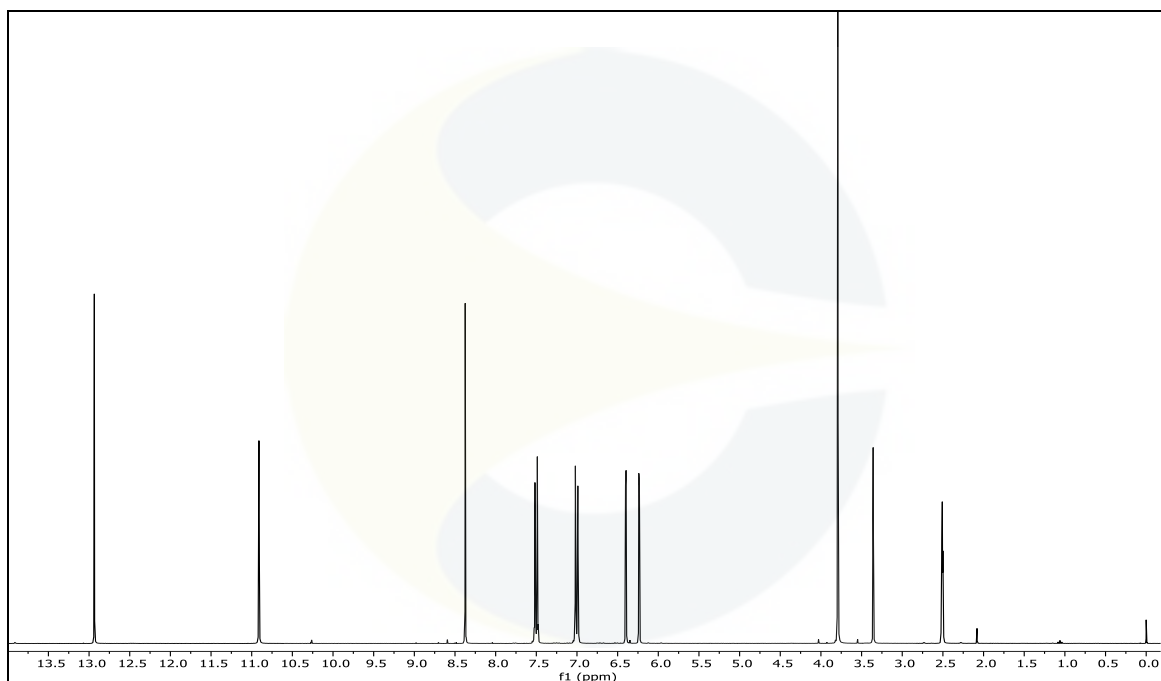
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**UV SPECTRUM AT RT 17.8 MINUTES****HPLC CHROMATOGRAM OF DILUENT BLANK**

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Life Technologies (India) Pvt. Ltd.  
306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi - 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444  
Email: [customerservice@lifetechindia.com](mailto:customerservice@lifetechindia.com) Website: [www.lifetechindia.com](http://www.lifetechindia.com)

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**MASS SPECTRUM OF BIOCHANIN A (CDXP-20-00414)**

**<sup>1</sup>H-NMR SPECTRUM OF BIOCHANIN A (CDXP-20-00414) IN DMSO-d<sub>6</sub> + TMS**


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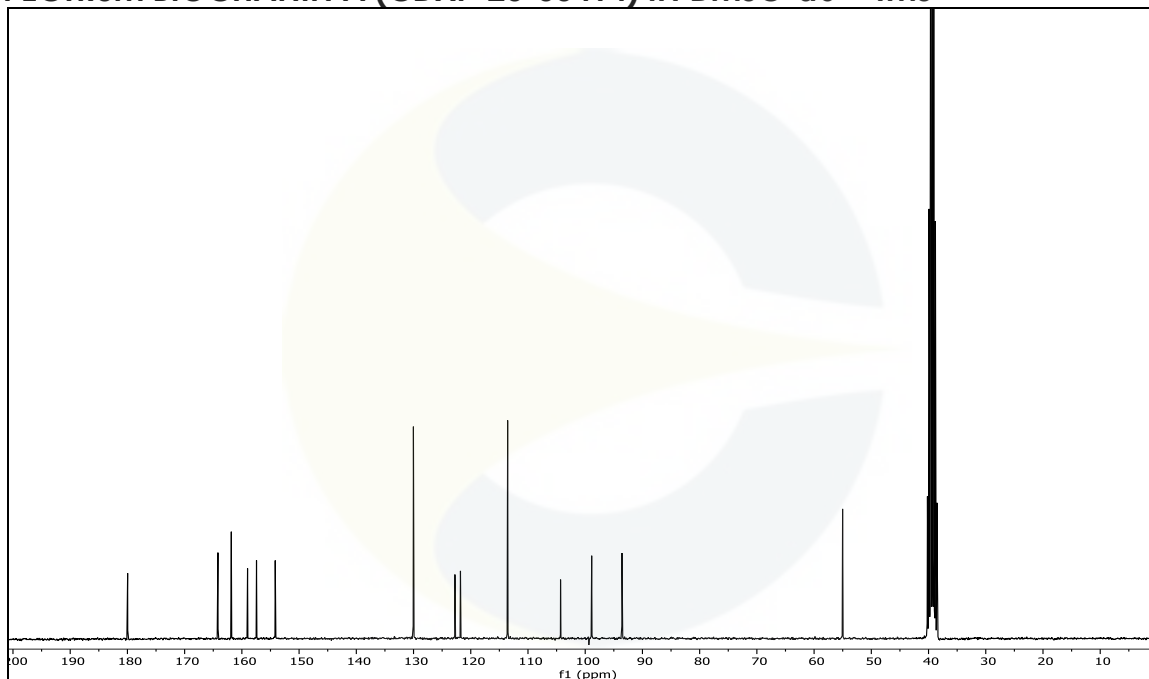
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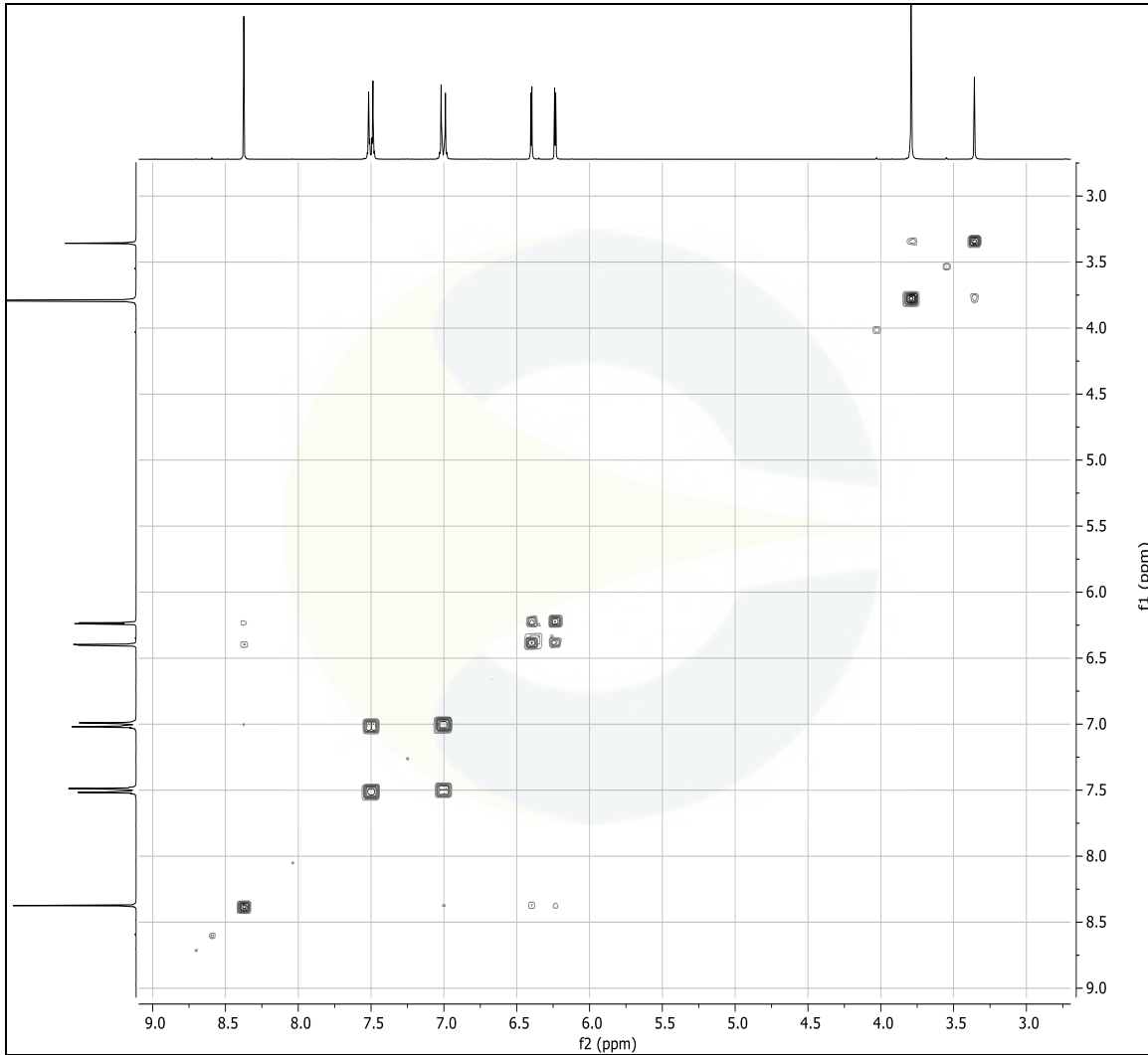
<sup>13</sup>C-NMR SPECTRUM BIOCHANIN A (CDXP-20-00414) IN DMSO-d<sub>6</sub> + TMS



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**COSY-NMR SPECTRUM OF BIOCHANIN A (CDXP-20-00414) IN DMSO-d<sub>6</sub> + TMS**

**REVISION HISTORY**

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	07/28/2020	New report

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