



### AT4017 GH Flower 70 DAP, OR

Sample ID: G3G0167-11 Matrix: Useable Marijuana

Test ID: 1A401030002D821000005913

Source ID: 1A401030002D821000005902

Date Sampled: 07/13/23 Date Accepted: 07/13/23

Harvest/Prod. Date: 06.21.2023

**Phylos Bioscience (Progressive Plant Research)**  
quality@phylos.bio

### Results at a Glance

Total THC : 18.87 %

Total CBD : <LOQ (0.0117% dry) %

Total THCV : 0.1586 % dry PASS

Percent Moisture : 8.84 % PASS

Total Terpenes : 1.759 % PASS



Eric Wendt  
Chief Science Officer - 7/19/2023



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### Potency Analysis by HPLC

Date/Time Extracted: 07/17/23 12:10

Analysis Method/SOP: 215

Batch Identification: 2329009

	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile										
Total THC	0.0519	18.87	188.7	<table border="1"> <tr><td>THCA</td><td>21.2</td></tr> <tr><td>delta 9-THC</td><td>0.2</td></tr> <tr><td>CBGA</td><td>0.6</td></tr> <tr><td>THCVA</td><td>0.2</td></tr> <tr><td>Total:</td><td>22.3</td></tr> </table>	THCA	21.2	delta 9-THC	0.2	CBGA	0.6	THCVA	0.2	Total:	22.3
THCA	21.2													
delta 9-THC	0.2													
CBGA	0.6													
THCVA	0.2													
Total:	22.3													
Total CBD	0.0117	< LOQ	< LOQ											
Total THCV	0.0430	0.1586	1.586											
THCA	0.0005	21.24	212.4											
delta 9-THC	0.0005	0.2453	2.453											
delta 8-THC	0.0257	< LOQ	< LOQ											
THCV	0.0288	< LOQ	< LOQ											
THCVA	0.0108	0.1809	1.809											
CBD	0.0005	< LOQ	< LOQ											
CBDA	0.0005	< LOQ	< LOQ											
CBDV	0.0285	< LOQ	< LOQ											
CBDVA	0.0094	< LOQ	< LOQ											
CBN	0.0171	< LOQ	< LOQ											
CBG	0.0046	< LOQ	< LOQ											
CBGA	0.0046	0.6432	6.432											
CBC	0.0511	< LOQ	< LOQ											
<b>Total Cannabinoids</b>		<b>22.31</b>	<b>223.1</b>											

### Moisture

Date/Time Extracted: 07/17/23 12:44

Analysis Method/SOP: 103

Moisture: 8.84 %

Action Level: 15%

Potency results are reported on a dry weight basis.

Total THC = delta 9-THC + (THCA \* 0.877)

Total CBD = CBD + (CBDA \* 0.877)

Total CBG = CBG + (CBGA \* 0.878)

LOQ=Limit of Quantification, the lowest measurable concentration of an analyte.



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ACCREDITED  
LABORATORY

Eric Wendt  
Chief Science Officer - 7/19/2023

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### AT4017 GH Flower 70 DAP, OR

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### Terpene Analysis by GCMS

Date/Time Extracted: 07/17/23 12:10

Analysis Method/SOP: 204

Date/Time Analyzed: 07/17/23 20:59

Analyte	Result	LOD	LOQ	Units	Analyte	Result	LOD	LOQ	Units
(-)-Borneol	< LOQ	0.001	0.003	mg/g	(+)-Borneol	< LOQ	0.001	0.003	mg/g
3-Carene	< LOQ	0.001	0.003	mg/g	alpha-Bisabolol	0.13	0.001	0.003	mg/g
alpha-Cedrene	0.54	0.001	0.003	mg/g	alpha-Humulene	0.19	0.001	0.003	mg/g
Alpha-Phellandrene	< LOQ	0.001	0.003	mg/g	alpha-Pinene	0.32	0.001	0.003	mg/g
alpha-Terpinene	< LOQ	0.001	0.003	mg/g	alpha-Thujone	< LOQ	0.001	0.003	mg/g
A-Terpineol	0.08	0.001	0.003	mg/g	beta-Caryophyllene	0.58	0.001	0.003	mg/g
beta-Myrcene	9.09	0.001	0.003	mg/g	beta-Pinene	0.27	0.001	0.003	mg/g
Camphene	< LOQ	0.001	0.003	mg/g	Camphor	< LOQ	0.001	0.003	mg/g
Carvacrol	< LOQ	0.001	0.003	mg/g	Carvone	< LOQ	0.001	0.003	mg/g
Caryophyllene Oxide	< LOQ	0.001	0.003	mg/g	Cedrol	< LOQ	0.001	0.003	mg/g
Cis-beta-Farnesene	< LOQ	0.001	0.003	mg/g	Cis-beta-Ocimene	< LOQ	0.001	0.003	mg/g
cis-Nerolidol	< LOQ	0.001	0.003	mg/g	Citral	< LOQ	0.001	0.003	mg/g
Citronellol	< LOQ	0.001	0.003	mg/g	Endo-fenchyl alcohol	< LOQ	0.001	0.003	mg/g
Eucalyptol	< LOQ	0.001	0.003	mg/g	Farnesol 1	< LOQ	0.001	0.003	mg/g
Farnesol 2	< LOQ	0.001	0.003	mg/g	gamma-Terpinene	2.5	0.001	0.003	mg/g
Geraniol	< LOQ	0.001	0.003	mg/g	Geranyl acetate	0.08	0.001	0.003	mg/g
Guaiol	0.26	0.001	0.003	mg/g	Isoborneol	< LOQ	0.001	0.003	mg/g
Isobornyl Acetate	< LOQ	0.001	0.003	mg/g	Isopulegol	< LOQ	0.001	0.003	mg/g
Limonene	0.68	0.001	0.003	mg/g	Linalool	< LOQ	0.001	0.003	mg/g
Menthol	< LOQ	0.001	0.003	mg/g	Menthone	< LOQ	0.001	0.003	mg/g
Nootkatone	< LOQ	0.001	0.003	mg/g	Octyl Acetate	< LOQ	0.001	0.003	mg/g
p-Cymene	< LOQ	0.001	0.003	mg/g	Phytane	< LOQ	0.001	0.003	mg/g
Piperitone	< LOQ	0.001	0.003	mg/g	Pulegone	< LOQ	0.001	0.003	mg/g
Sabinene	< LOQ	0.001	0.003	mg/g	Sabinene hydrate	< LOQ	0.001	0.003	mg/g
Safranal	< LOQ	0.001	0.003	mg/g	Squalene	< LOQ	0.001	0.003	mg/g
Terpinen-4-ol	0.05	0.001	0.003	mg/g	Terpinolene	< LOQ	0.001	0.003	mg/g
Thymol	< LOQ	0.001	0.003	mg/g	trans-beta-Farnesene	0.21	0.001	0.003	mg/g
trans-beta-Ocimene	2.55	0.001	0.003	mg/g	trans-Nerolidol	< LOQ	0.001	0.003	mg/g
Valencene	0.12	0.001	0.003	mg/g	Verbenone	< LOQ	0.001	0.003	mg/g
<b>Total Terpenes</b>	<b>17.59</b>	<b>0.001</b>	<b>0.003</b>	<b>mg/g</b>					

ND - Compound not detected, <LOQ - Results below the Limit of Quantitation  
Terpenes are not Accredited by ORELAP to TNI 2016



Eric Wendt  
Chief Science Officer - 7/19/2023



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Test ID: 1A401030002D821000005913

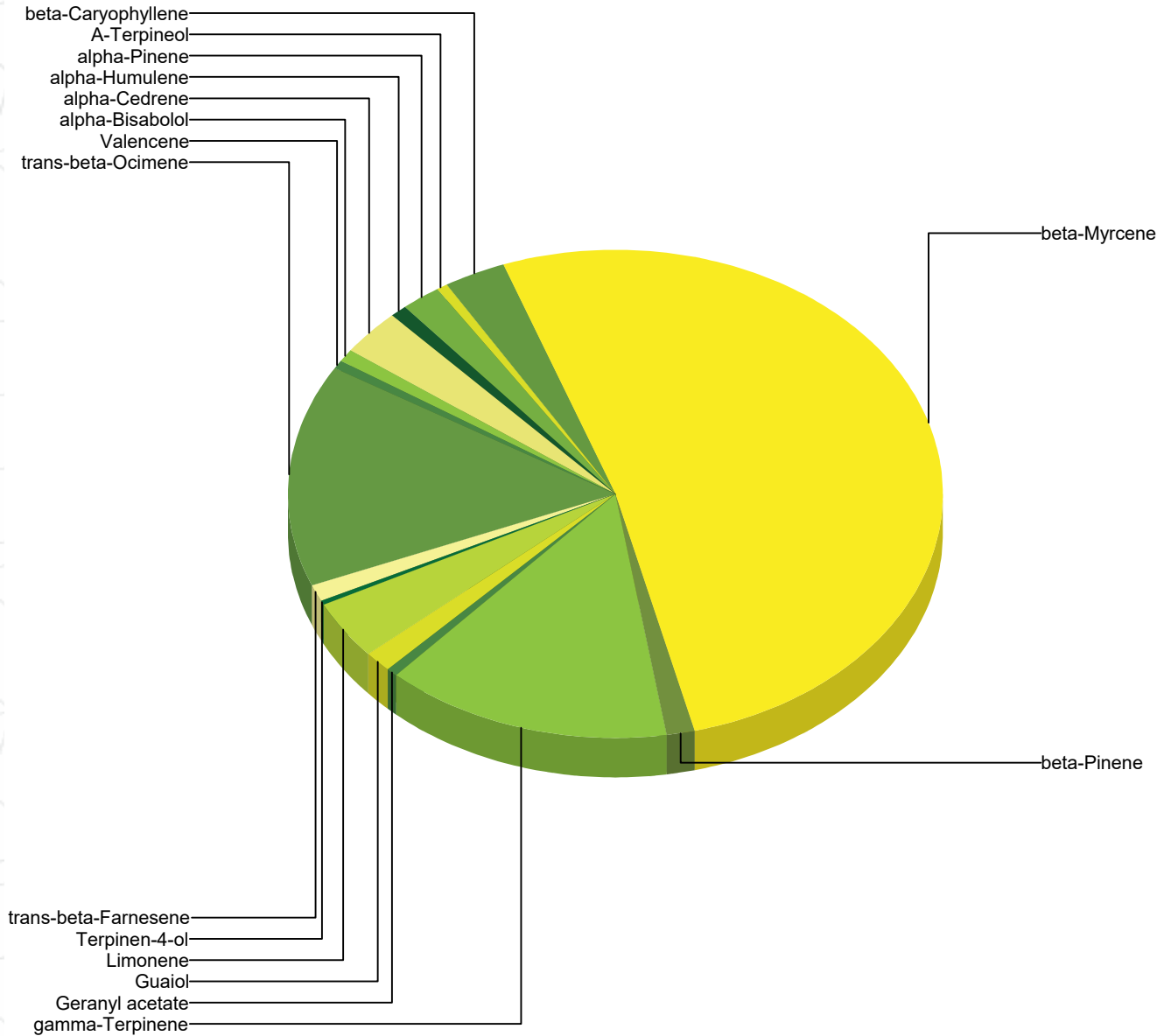
Source ID: 1A401030002D821000005902

Date Sampled: 07/13/23 Date Accepted: 07/13/23

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### Terpene Profile



### Percentage of Total Terpenes Identified



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### Quality Control Potency

Batch: 2329009 - 215-Useable

Blank(2329009-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0005	%		07/17/23 12:10	07/17/23 16:31	
delta 9-THC	< LOQ	0.0005	%		07/17/23 12:10	07/17/23 16:31	
delta 8-THC	< LOQ	0.0234	%		07/17/23 12:10	07/17/23 16:31	
THCV	< LOQ	0.0263	%		07/17/23 12:10	07/17/23 16:31	
THCVA	< LOQ	0.0099	%		07/17/23 12:10	07/17/23 16:31	
CBD	< LOQ	0.0005	%		07/17/23 12:10	07/17/23 16:31	
CBDA	< LOQ	0.0005	%		07/17/23 12:10	07/17/23 16:31	
CBDV	< LOQ	0.0260	%		07/17/23 12:10	07/17/23 16:31	
CBDVA	< LOQ	0.0086	%		07/17/23 12:10	07/17/23 16:31	
CBN	< LOQ	0.0156	%		07/17/23 12:10	07/17/23 16:31	
CBG	< LOQ	0.0042	%		07/17/23 12:10	07/17/23 16:31	
CBGA	< LOQ	0.0042	%		07/17/23 12:10	07/17/23 16:31	
CBC	< LOQ	0.0465	%		07/17/23 12:10	07/17/23 16:31	

Reference(2329009-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	94.4	0.0005	%	90-110	07/17/23 12:10	07/17/23 16:55	
delta 9-THC	105	0.0005	%	90-110	07/17/23 12:10	07/17/23 16:55	
delta 8-THC	106	0.0234	%	90-110	07/17/23 12:10	07/17/23 16:55	
CBD	98.5	0.0005	%	90-110	07/17/23 12:10	07/17/23 16:55	
CBDA	99.6	0.0005	%	90-110	07/17/23 12:10	07/17/23 16:55	

### Moisture Content

Batch: 2329005 - 103

Blank(2329005-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	0.520		%		07/17/23 12:44	07/17/23 12:44	

Blank(2329005-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	0.360		%		07/17/23 12:44	07/17/23 12:44	

Reference(2329005-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	101		%	80-120	07/17/23 12:44	07/17/23 12:44	

Reference(2329005-SRM2)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	95.6		%	80-120	07/17/23 12:44	07/17/23 12:44	

Batch: 2329009 - 215-Useable

Blank(2329009-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes



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### Quality Control Terpene Analysis (Continued)

Batch: 2329009 - 215-Useable (Continued)

Blank(2329009-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Bisabolol	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Camphene	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Camphor	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
3-Carene	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
beta-Caryophyllene	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Caryophyllene Oxide	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
alpha-Cedrene	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Cedrol	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Endo-fenchyl alcohol	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Eucalyptol	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Geraniol	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Geranyl acetate	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Guaiol	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
alpha-Humulene	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Isoborneol	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Isopulegol	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Limonene	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Linalool	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
beta-Myrcene	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
trans-Nerolidol	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
alpha-Pinene	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
beta-Pinene	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Pulegone	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Sabinene	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Sabinene hydrate	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
gamma-Terpinene	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
alpha-Terpinene	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Terpinolene	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Valencene	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Verbenone	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
trans-beta-Farnesene	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
A-Terpineol	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
cis-Nerolidol	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Thymol	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Terpinen-4-ol	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Squalene	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Safranal	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Piperitone	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	



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Chief Science Officer - 7/19/2023

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### Quality Control Terpene Analysis (Continued)

Batch: 2329009 - 215-Useable (Continued)

Blank(2329009-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Phytane	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
p-Cymene	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Octyl Acetate	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Nootkatone	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Menthone	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Menthol	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Isobornyl Acetate	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Farnesol 1	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Carvone	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
alpha-Thujone	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Alpha-Phellandrene	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
(+)-Borneol	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
(-)-Borneol	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Carvacrol	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
trans-beta-Ocimene	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Cis-beta-Ocimene	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Citral	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Citronellol	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Farnesol 2	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	
Cis-beta-Farnesene	< LOQ	0.00025	%		07/17/23 12:10	07/17/23 18:31	

Reference(2329009-SRM2)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
beta-Caryophyllene	77.2	0.00025	%	70-130	07/17/23 12:10	07/17/23 18:49	
alpha-Humulene	81.9	0.00025	%	70-130	07/17/23 12:10	07/17/23 18:49	
Limonene	96.5	0.00025	%	70-130	07/17/23 12:10	07/17/23 18:49	
beta-Myrcene	71.0	0.00025	%	70-130	07/17/23 12:10	07/17/23 18:49	



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### Notes and Definitions

Regulatory Compliance samples were collected onsite at facility according to ORELAP-SOP-001 and ORELAP-SOP-002 and following Sampling Plan FN117. Quality Control samples were tested as received. Results do not include uncertainty of measurements. Available upon request.

- ATM Non-cannabis matrix related interference or suppression of Internal standard
  - BLI Baseline Interference - Cannabinoid peak interference in chromatographic baseline affecting QC recovery .
  - BLK Analyte detected in method blank, but not associated samples.
  - BSH Blank Spike High - Blank Spike recovery above method limit. no detections in samples.
  - BSL Blank Spike Low - Blank Spike recovery below lower method limit, analyte chromatography reviewed manually for all samples.
  - CBD Interference due to co-elution
  - CV1 CBD matrix interference on GC Pest chromatography
  - CV2 CCV was above acceptance criteria, Non-detect samples are considered acceptable.
  - INF CCV was below acceptance criteria, sample still exceeds regulatory limit.
  - ISH One or more QC falls outside acceptance criteria. Data entered into LIMS for informational purposes only.
  - ISL Internal Standard concentration is above acceptance criteria.
  - MSH Internal Standard concentration is below acceptance criteria.
  - MSI Matrix Spike High - Matrix Spike recovery above method limits.
  - MSL Matrix Spike Interference - Matrix spike source sample contains analyte hit above calibration affecting recovery accuracy in Matrix Spike.
  - TPP
  - U Matrix Spike Low - Matrix Spike recovery below lower method limit, analyte chromatography reviewed manually for all samples.
- Internal Standard concentration outside control limit due to matrix interference



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