



### Blue Orchid

Sample ID: G3K0268-03

Matrix: Industrial Hemp

Test ID: 5025777

Source ID:

Date Sampled: 11/18/23

Date Accepted: 11/18/23

Harvest/Prod. Date: 10.07.2023

### Results at a Glance

Total THC : 0.51 %

Total CBD : 15 %

Total CBG : <LOQ (0.0009% dry) %

Percent Moisture : 10.9 % PASS

Total Terpenes : 0.966 % PASS



ISO 17025  
ACCREDITED  
LABORATORY

Eric Wendt  
Chief Science Officer - 12/2/2023

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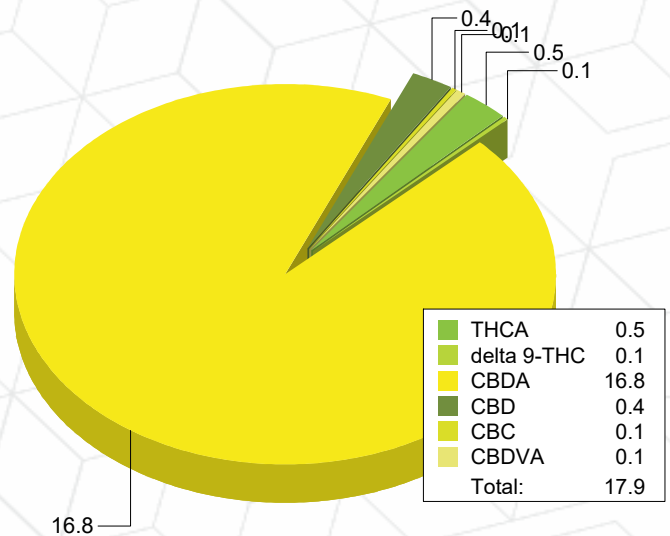
### Potency Analysis

Date/Time Extracted: 11/18/23 10:15

Analysis Method/SOP: 215

Batch Identification: 2346088

	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile	
Total THC	0.010	0.51	5.1		
Total CBD	0.009	15	150		
Total CBG	0.0009	< LOQ	< LOQ		
THCA	0.0006	0.52	5.2		
delta 9-THC	0.0006	0.053	0.53		
delta 8-THC	0.005	< LOQ	< LOQ		
THCV	0.006	< LOQ	< LOQ		
THCVA	0.002	< LOQ	< LOQ		
CBD	0.002	0.43	4.3		
CBDA	0.002	17	170		
CBDV	0.006	< LOQ	< LOQ		
CBDVA	0.002	0.082	0.82		
CBN	0.003	< LOQ	< LOQ		
CBG	0.0009	< LOQ	< LOQ		
CBGA	0.0009	< LOQ	< LOQ		
CBC	0.010	0.079	0.79		



### Moisture

Date/Time Extracted: 11/21/23 14:55

Analysis Method/SOP: 103

Moisture: 10.9 %

Action Level: 90%

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.

THCA, delta 9-THC, delta 8-THC, CBDA and CBD are accredited by TNI 2016 and ISO 17025



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Harvest/Prod. Date: 10.07.2023

### Terpene Analysis by GCMS

Date/Time Extracted: 12/01/23 12:24

Analysis Method/SOP: 204

Date/Time Analyzed: 12/02/23 02:26

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	0.07	0.001	0.003	mg/g	alpha-Bisabolol	0.45	0.001	0.003	mg/g
alpha-Cedrene	< LOQ	0.001	0.003	mg/g	alpha-Humulene	0.31	0.001	0.003	mg/g
Alpha-Phellandrene	0.09	0.001	0.003	mg/g	alpha-Pinene	0.63	0.001	0.003	mg/g
alpha-Terpinene	0.07	0.001	0.003	mg/g	alpha-Thujone	< LOQ	0.001	0.003	mg/g
A-Terpineol	0.15	0.001	0.003	mg/g	beta-Caryophyllene	0.82	0.001	0.003	mg/g
beta-Myrcene	2.51	0.001	0.003	mg/g	beta-Pinene	0.37	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	0.13	0.001	0.003	mg/g	Cedrol	< LOQ	0.001	0.003	mg/g
Cis-beta-Farnesene	0.32	0.001	0.003	mg/g	Cis-beta-Ocimene	0.61	0.001	0.003	mg/g
cis-Nerolidol	0.18	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	0.1	0.001	0.003	mg/g
Eucalyptol	< LOQ	0.001	0.003	mg/g	Farnesol 1	0.44	0.001	0.003	mg/g
Farnesol 2	< LOQ	0.001	0.003	mg/g	gamma-Terpinene	0.06	0.001	0.003	mg/g
Geraniol	< LOQ	0.001	0.003	mg/g	Geranyl acetate	< LOQ	0.001	0.003	mg/g
Guaiol	< LOQ	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	0.33	0.001	0.003	mg/g	Linalool	0.14	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	0.1	0.001	0.003	mg/g	Terpinolene	1.58	0.001	0.003	mg/g
Thymol	< LOQ	0.001	0.003	mg/g	trans-beta-Farnesene	0.32	0.001	0.003	mg/g
trans-beta-Ocimene	< LOQ	0.001	0.003	mg/g	trans-Nerolidol	< LOQ	0.001	0.003	mg/g
Valencene	< LOQ	0.001	0.003	mg/g	Verbenone	< LOQ	0.001	0.003	mg/g
<b>Total Terpenes</b>	<b>9.66</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 and ISO 17025



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Chief Science Officer - 12/2/2023

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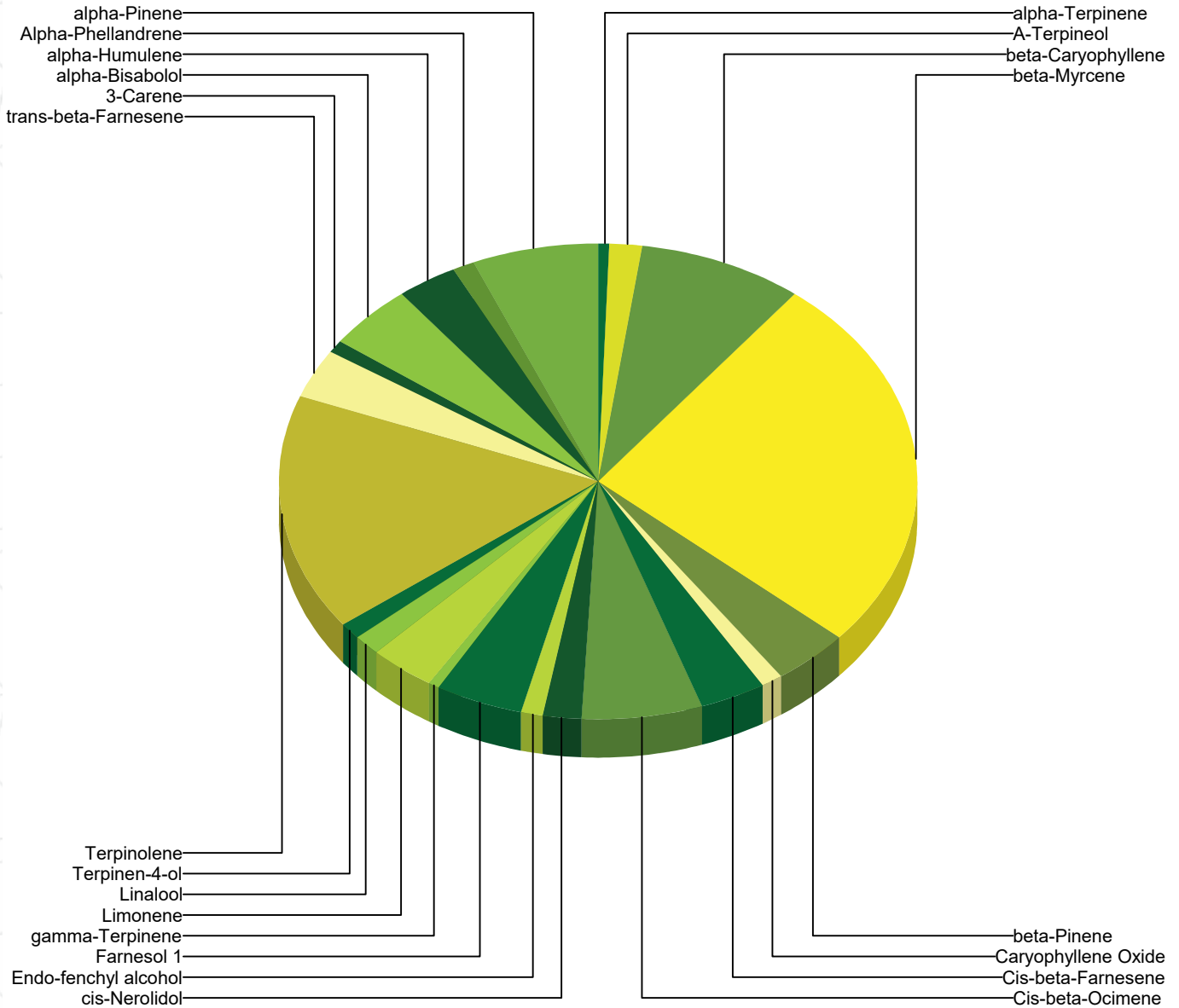
Source ID:

Date Sampled: 11/18/23

Date Accepted: 11/18/23

Harvest/Prod. Date: 10.07.2023

### Terpene Profile



### Percentage of Total Terpenes Identified



Eric Wendt  
Chief Science Officer - 12/2/2023



### Quality Control Potency

Batch: 2346088 - 215-Hemp

Blank(2346088-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0005	%		11/18/23 10:15	11/19/23 02:03	
delta 9-THC	< LOQ	0.0005	%		11/18/23 10:15	11/19/23 02:03	
delta 8-THC	< LOQ	0.004	%		11/18/23 10:15	11/19/23 02:03	
THCV	< LOQ	0.005	%		11/18/23 10:15	11/19/23 02:03	
THCVA	< LOQ	0.002	%		11/18/23 10:15	11/19/23 02:03	
CBD	< LOQ	0.0005	%		11/18/23 10:15	11/19/23 02:03	
CBDA	< LOQ	0.0005	%		11/18/23 10:15	11/19/23 02:03	
CBDV	< LOQ	0.005	%		11/18/23 10:15	11/19/23 02:03	
CBDVA	< LOQ	0.002	%		11/18/23 10:15	11/19/23 02:03	
CBN	< LOQ	0.003	%		11/18/23 10:15	11/19/23 02:03	
CBG	< LOQ	0.0008	%		11/18/23 10:15	11/19/23 02:03	
CBGA	< LOQ	0.0008	%		11/18/23 10:15	11/19/23 02:03	
CBC	< LOQ	0.009	%		11/18/23 10:15	11/19/23 02:03	

Reference(2346088-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	99.0	0.0005	%	90-110	11/18/23 10:15	11/19/23 02:26	
delta 9-THC	103	0.0005	%	90-110	11/18/23 10:15	11/19/23 02:26	
delta 8-THC	103	0.004	%	90-110	11/18/23 10:15	11/19/23 02:26	
CBD	110	0.0005	%	90-110	11/18/23 10:15	11/19/23 02:26	
CBDA	103	0.0005	%	90-110	11/18/23 10:15	11/19/23 02:26	

### Moisture Content

Batch: 2347013 - 103

Blank(2347013-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	0.400		%		11/21/23 14:55	11/21/23 14:55	

Blank(2347013-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	0.360		%		11/21/23 14:55	11/21/23 14:55	

Reference(2347013-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	118		%	80-120	11/21/23 14:55	11/21/23 14:55	

Reference(2347013-SRM2)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	97.2		%	80-120	11/21/23 14:55	11/21/23 14:55	

Batch: 2348078 - 215-Hemp

Blank(2348078-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes



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### Quality Control Terpene Analysis (Continued)

Batch: 2348078 - 215-Hemp (Continued)

Blank(2348078-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Bisabolol	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Camphene	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Camphor	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
3-Carene	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
beta-Caryophyllene	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Caryophyllene Oxide	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
alpha-Cedrene	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Cedrol	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Endo-fenchyl alcohol	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Eucalyptol	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Geraniol	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Geranyl acetate	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Guaiol	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
alpha-Humulene	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Isoborneol	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Isopulegol	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Limonene	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Linalool	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
beta-Myrcene	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
trans-Nerolidol	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
alpha-Pinene	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
beta-Pinene	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Pulegone	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Sabinene	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Sabinene hydrate	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
gamma-Terpinene	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
alpha-Terpinene	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Terpinolene	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Valencene	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Verbenone	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
trans-beta-Farnesene	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
A-Terpineol	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
cis-Nerolidol	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Thymol	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Terpinen-4-ol	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Squalene	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Safranal	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Piperitone	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	



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### Quality Control Terpene Analysis (Continued)

Batch: 2348078 - 215-Hemp (Continued)

Blank(2348078-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Phytane	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
p-Cymene	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Octyl Acetate	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Nootkatone	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Menthone	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Menthol	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Isobornyl Acetate	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Farnesol 1	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Carvone	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
alpha-Thujone	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Alpha-Phellandrene	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
(+)-Borneol	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
(-)-Borneol	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Carvacrol	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
trans-beta-Ocimene	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Cis-beta-Ocimene	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Citral	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Citronellol	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Farnesol 2	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	
Cis-beta-Farnesene	< LOQ	0.00025	%		12/01/23 12:24	12/02/23 01:12	

Reference(2348078-SRM2)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Bisabolol	76.3	0.00025	%	70-130	12/01/23 12:24	12/02/23 01:30	
beta-Caryophyllene	75.8	0.00025	%	70-130	12/01/23 12:24	12/02/23 01:30	
alpha-Humulene	75.3	0.00025	%	70-130	12/01/23 12:24	12/02/23 01:30	
Limonene	75.5	0.00025	%	70-130	12/01/23 12:24	12/02/23 01:30	



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Chief Science Officer - 12/2/2023



### Notes and Definitions

Regulatory Compliance samples were collected onsite at facility according to SOP-402 and SOP-403 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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