

GAIN LINEARITY REPORT

ACQUISITION INFORMATION

System Name: IClass_BSM_FTN_FLR

Project Path: SQT_E_BSM_FTN_FLR

Processing Method: Automated Qualification PM

Sample Kit 1 Expiration Date: 28.02.2020 00:00:00 SGT

Sample Kit 1 Lot Number: 700002753

Acquired By: hzluo

Report Method: Gain Linearity RM

Column Serial Number: 03323902435101

Sample Set Name: Gain Linearity SSM

Sample Set Id: 3275

Result Set Id: 3648

The Gain Linearity test verifies that the detector is capable of returning a linear response within the gain range of the detector. Single injections from the same Anthracene vial are made at five (5) different detector gain settings of 1,2,5,10 and 20. Gain Linearity Area is determined by calculating the %RSD of the peak areas vs. the gain set points (Amounts). Gain Linearity Height is determined by calculating the %RSD of the peak heights vs the gain set points (Amounts).

The Gain Linearity test passes only when all five (5) expected Anthracene peaks are identified, and the calculated %RSD of both Area_Gain and Area_Height intensities is ≤ 4.0 .

Results are rounded to the same precision as displayed by acceptance criterion prior to comparing against the specification.

Area Gain Results

	Area Gain Specification	Area Gain %RSD	Area Gain %RSD Pass/Fail
1	≤ 4.0	1.8	PASS

Height Gain Results

	Height Gain Specification	Height Gain %RSD	Height Gain %RSD Pass/Fail
1	≤ 4.0	0.9	PASS

Certification

Comments

The undersigned performer attests that the values recorded above are accurate and complete.

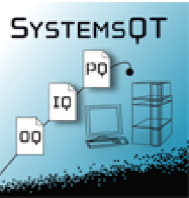
Performer

Signature Date

The undersigned reviewer accepts that the values recorded above are accurate and complete.

Reviewer

Signature Date



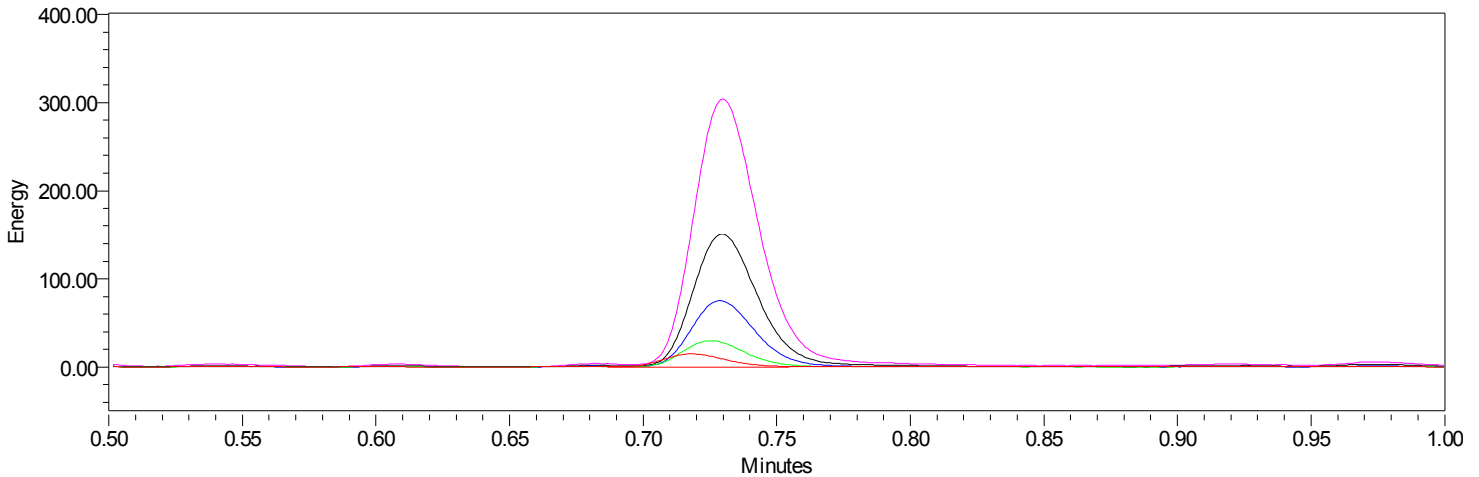
GAIN LINEARITY REPORT

ACQUISITION INFORMATION

System Name: IClass_BSM_FTN_FLR
Project Path: SQT_E_BSM_FTN_FLR

Sample Set Id: 3275
Result Set Id: 3648

Gain Linearity Overlay Chromatograms



Gain Linearity Area & Height Results

	Peak Name	RT	Amount	Area	Area Gain	Height (礦)	Height Gain	Result Id
1	Anthracene	0.72	1	246744	246744.4	147831	147831.4	3651
2	Anthracene	0.73	2	497472	248736.0	297727	148863.5	3652
3	Anthracene	0.73	5	1260751	252150.3	749298	149859.6	3653
4	Anthracene	0.73	10	2551777	255177.7	1503318	150331.8	3654
5	Anthracene	0.73	20	5162723	258136.2	3028091	151404.5	3655

Gain Linearity Summary Results

	Area Gain %RSD	Height Gain %RSD
1	1.8	0.9