

# Quintile Analysis Engine Report V3.1

QAE Guide / Contact

By Simon Hobbs



System Fundamentals

www.system-fundamentals.com

Minimal guide provided below  
→ See 'QAE Guide' for more details

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The **QAE Product** transforms 2 sets of cardinal daily metrics into ordinal **Q-Bands**, ranking and counting them across **Fixed Timeframes** using **Reverse Chronology**. The dataset is a closed 365/366-day historical envelope anchored to **Newest Date**. QAE processes 2 metric sets through 2 independent lenses: **M1 Baseline (BL)** and **M2 Reaction (RL)**. QAE is strictly historical making yesterday the newest allowable date.

**Metric 1 - M1** → Baseline Lens **○\_BL =** Ranked by absolute state within the Complete One-Year Range

**Metric 2 - M2** → Reaction Lens **△\_RL =** Reshaped to Reaction Intensity from Prior State then Ranked abs 1yr range

**Border colors indicate timeframes**  
1 Month 3 Months 6 Months  
1 Year Distant 6M

All containers show identification badges for timeframes plus lens type with metric identity

Reserved space: Automated system status and integration details

## QAE - Quintile Analysis Engine

### LEADING EDGE PAGE

\* Weather Dew Point °F Skin \*

REPORT TITLE: Experimental Dew Point Houston IAH 2024 - M1 = Avg Dew Point °F - M2 = Avg Temperature °F - (CDT): UTC-5

Newest: Dec 31, 2024  
Oldest: Jan 1, 2024  
Newest Active Date: Dec 31, 2024

UTC-05:00 North American East Coast / Cari...

QAE Timestamp: 2026-06-01 | 22:28:53

Day Count: 366 | Active Days: 366 | Participation: 100.00%

**○\_BL\_M1 Baseline** 1 Year

Newest Active Dec 31, 2024  
Avg Dew Point (ADP) °F

45

Weak

Consecutive Days (no direction) Weak = 1

Lowest ADP °F: Jan 16, 2024 (13)  
Highest ADP °F: May 27, 2024 (78)

Baseline Lens Q-Band M1 Avg Dew Point °F Cut-Offs

- Weak | Up To - 49.00
- Moderate | Up To - 62.00
- Median | Up To - 70.00
- Strong | Up To - 74.00
- Peak | Up To - 78.00

**△\_RL\_M2 Reaction** 1 Year

Newest Active Dec 31, 2024  
DA Temp % Change

10.800% = 62

Peak ▼

Consecutive Days Peak ▼ = 1 (no direction) Peak = 3

Lowest % Change: Nov 13, 2024 (0.000%)  
Highest % Change: Jan 18, 2024 (63.100%)

Reaction Lens Q-Band M2 DA Temp % Change Cut-Offs

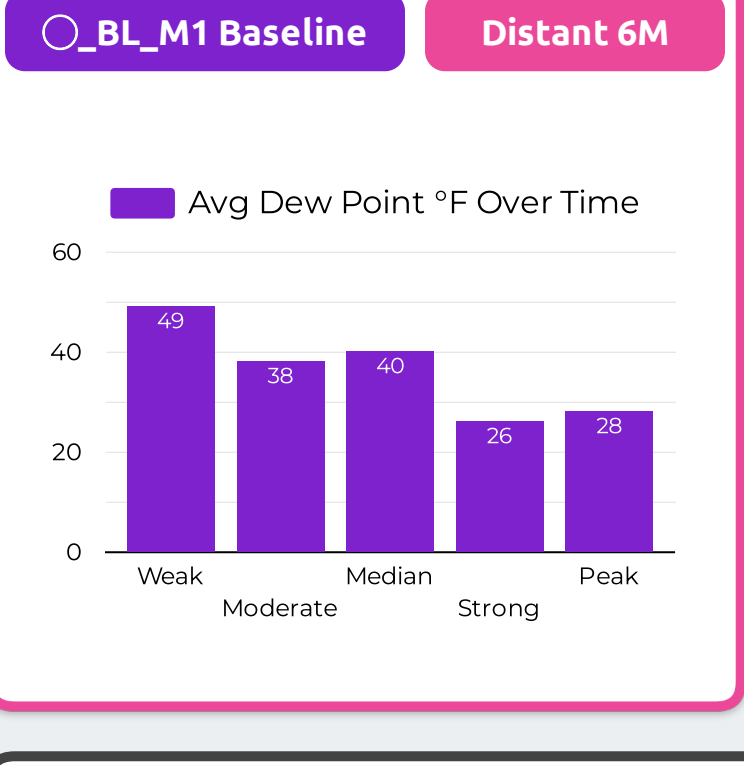
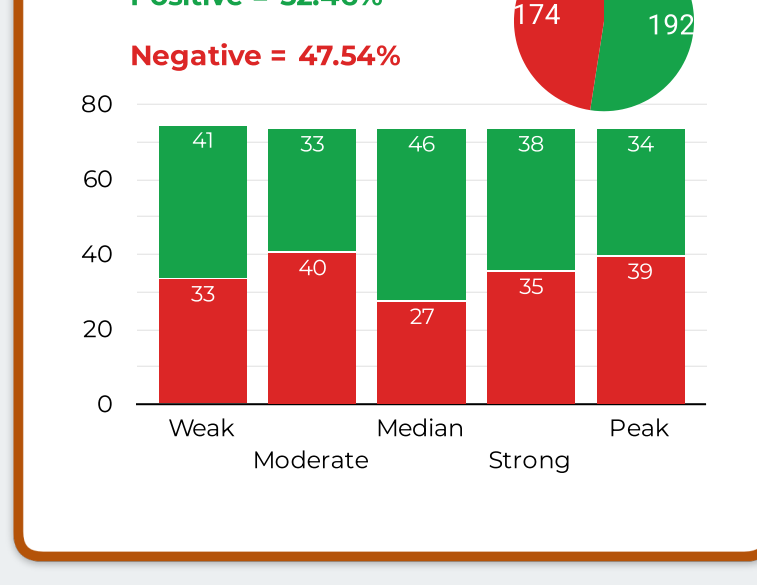
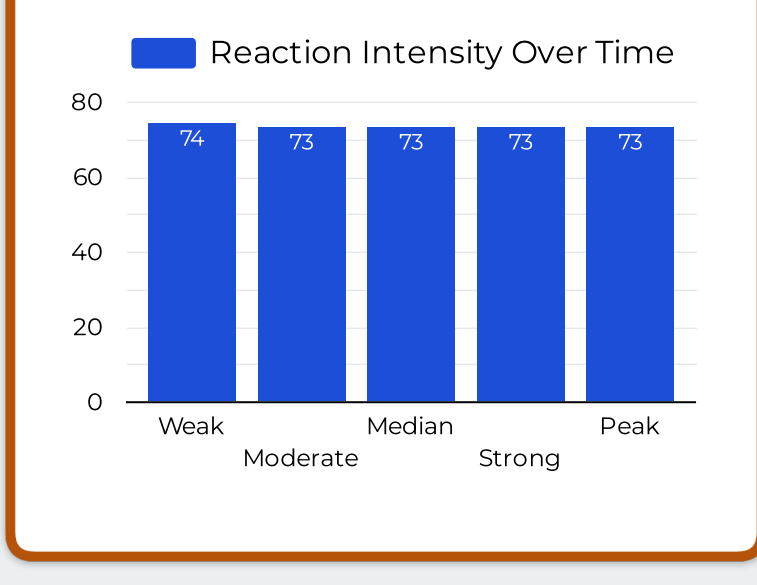
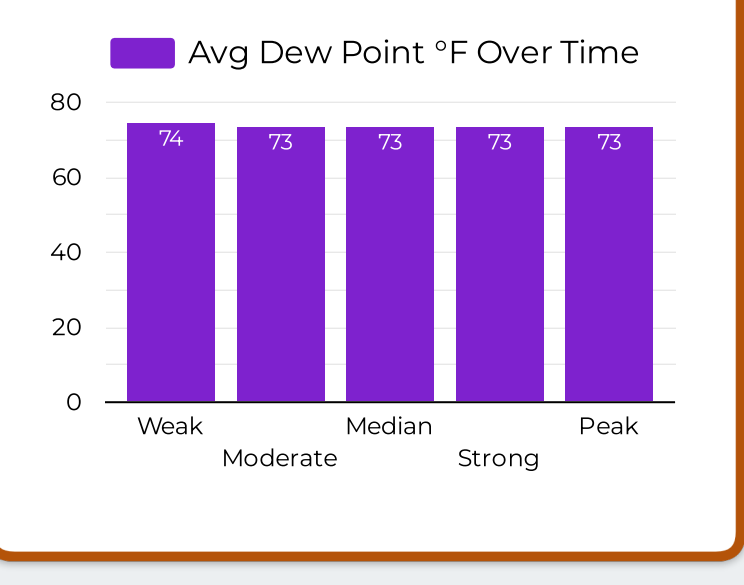
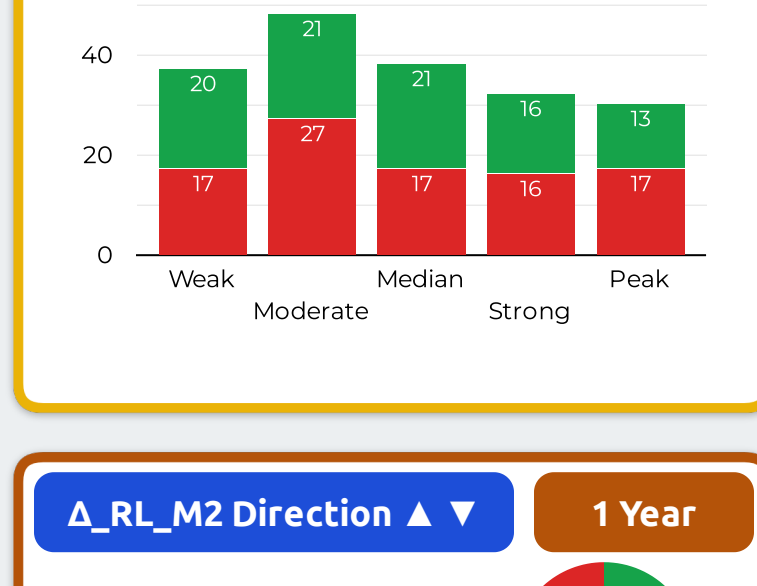
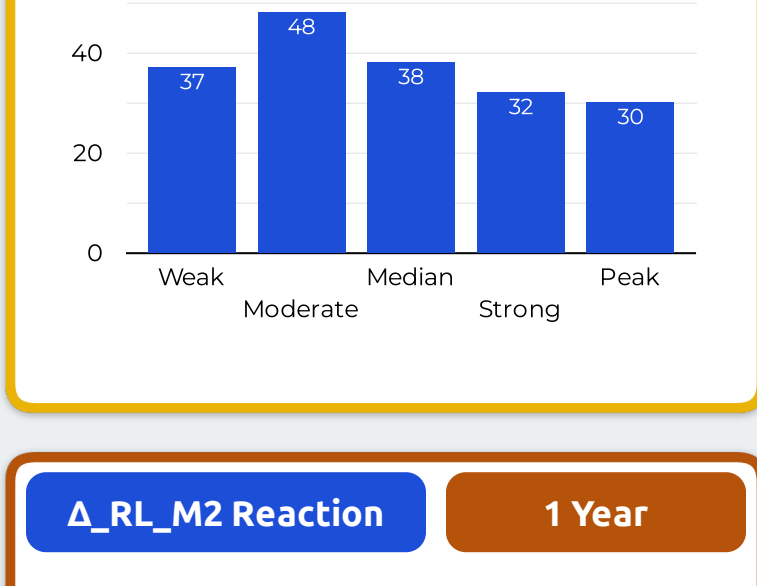
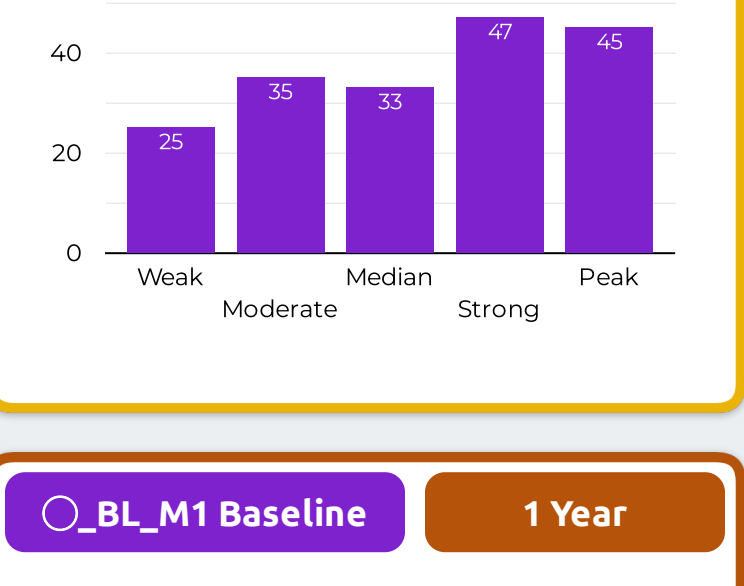
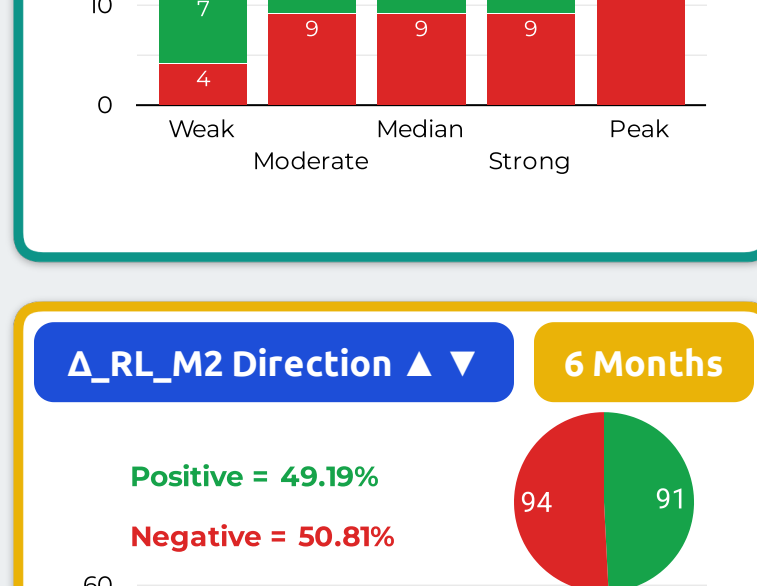
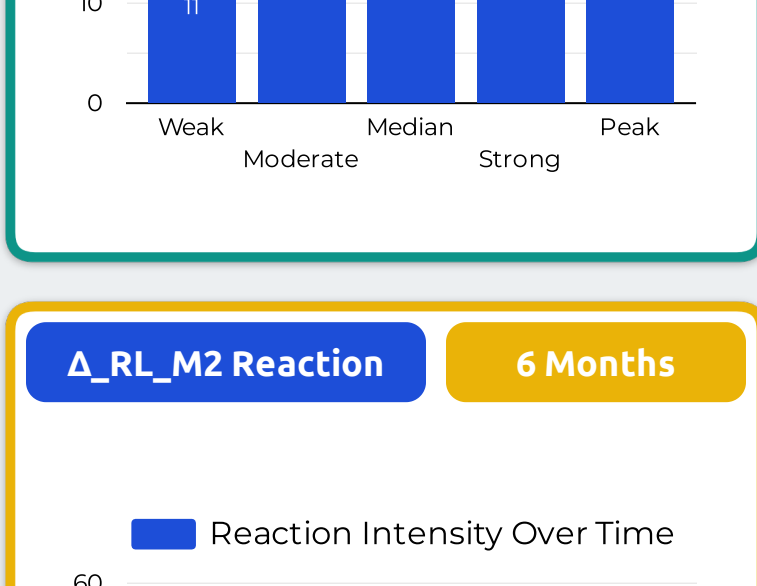
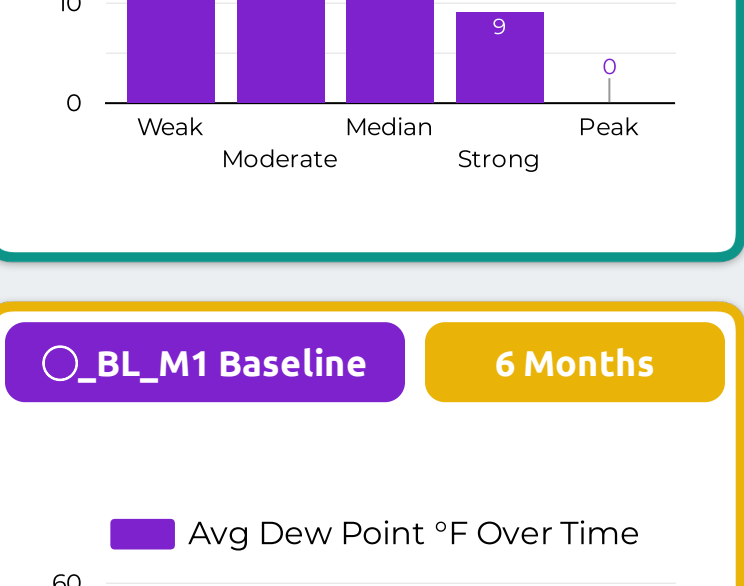
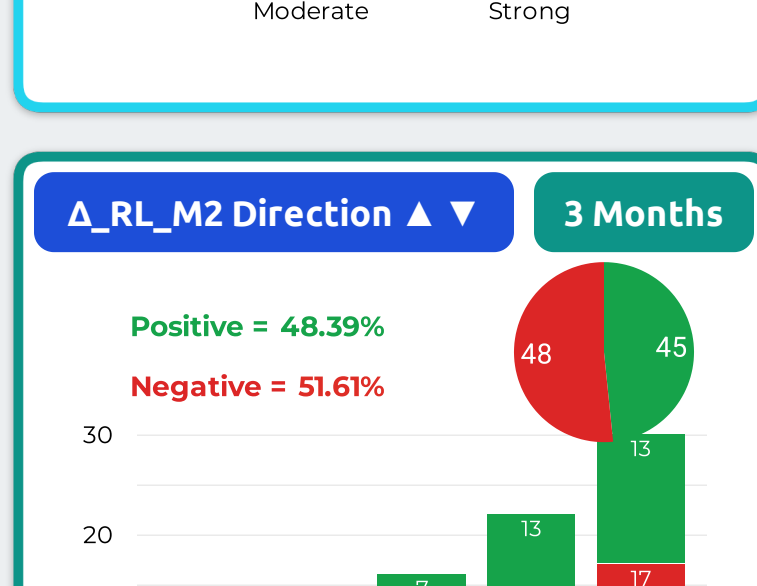
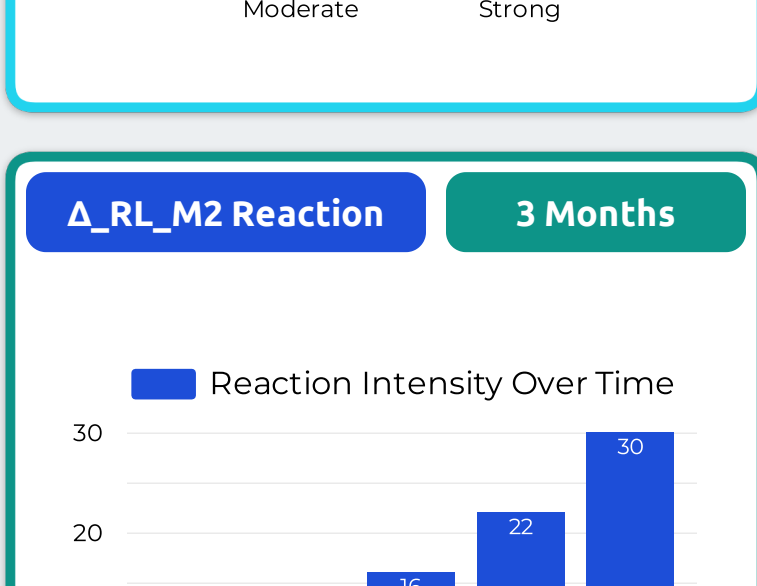
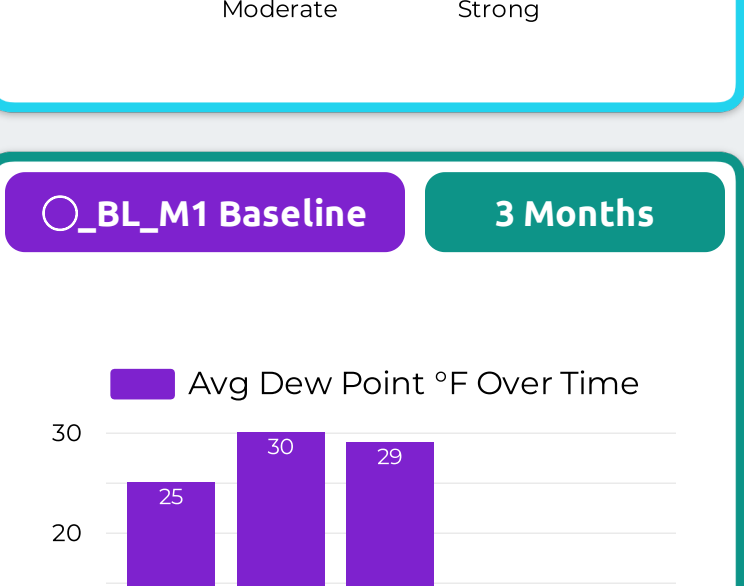
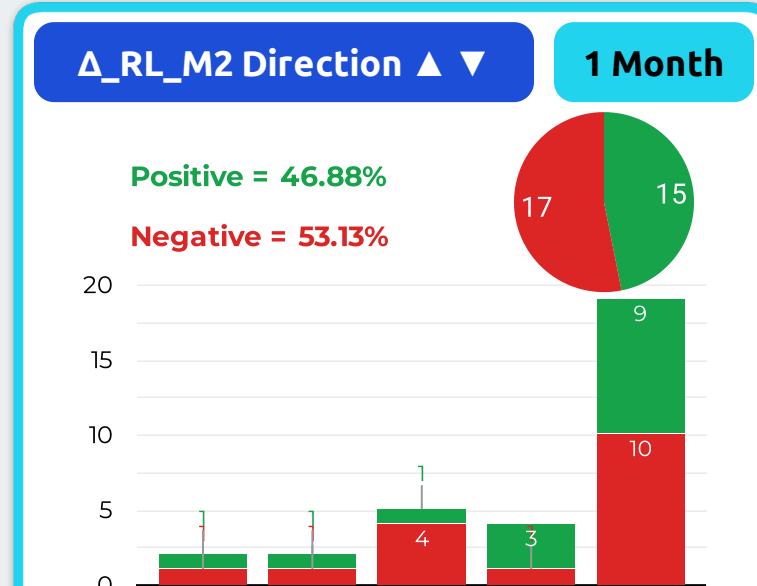
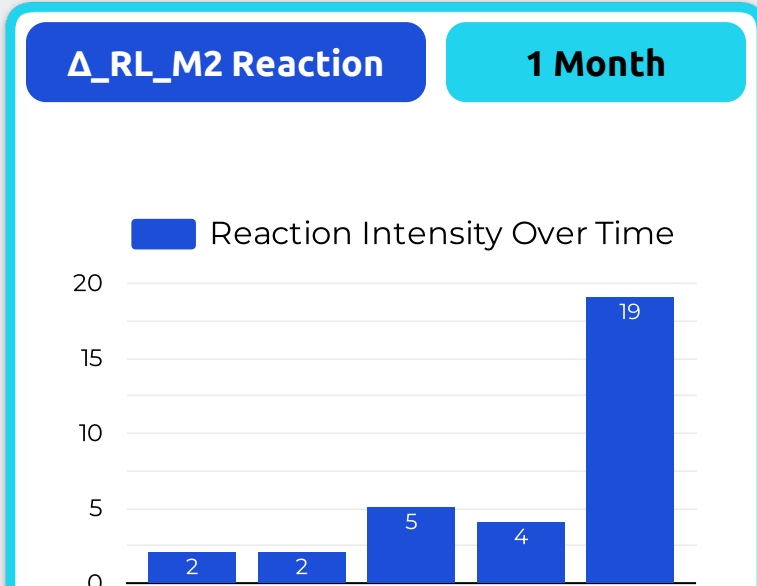
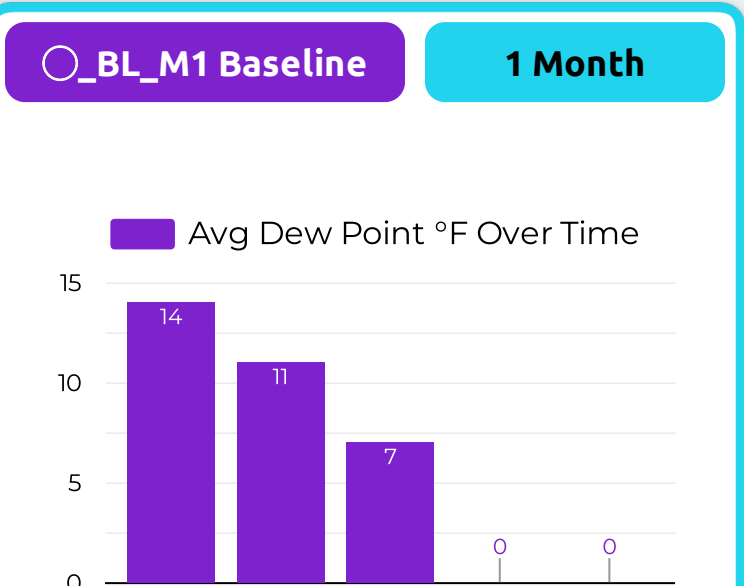
- Weak | Up To - 1.1094%
- Moderate | Up To - 2.2586%
- Median | Up To - 4.3515%
- Strong | Up To - 8.7754%
- Peak | Up To - 63.0748%

**○\_BL\_M1 Baseline & △\_RL\_M2 Reaction** Newest Historical Activity 1 Year

Local History Q-Bands: M1 = ADP °F | M2 = DA Temp % Change

Date	○_BL_M1	Position	△_RL_M2	Peak List	Date_○_BL...	Peak List	Date_△_RL...
Dec 31, 2024	Weak	First Active Date	Peak ▼	1	Sep 5, 2024	1	Dec 31, 2024
Dec 30, 2024	Moderate	2nd Active Date	Peak ▲	2	Sep 3, 2024	2	Dec 30, 2024
Dec 29, 2024	Moderate	3rd	Peak ▼	3	Sep 1, 2024	3	Dec 29, 2024
Dec 28, 2024	Median	4th	Median ▲	4	Aug 31, 2024	4	Dec 25, 2024
Dec 27, 2024	Moderate	5th	Median ▼	5	Aug 30, 2024	5	Dec 24, 2024
Dec 26, 2024	Median	6th	Strong ▲	6	Aug 29, 2024	6	Dec 23, 2024
Dec 25, 2024	Moderate	7th	Peak ▼	7	Aug 28, 2024	7	Dec 21, 2024
Dec 24, 2024	Moderate	8th	Peak ▲	8	Aug 22, 2024	8	Dec 19, 2024
Dec 23, 2024	Moderate	9th	Peak ▲	9	Aug 21, 2024	9	Dec 18, 2024
Dec 22, 2024	Weak	10th	Moderate ▲	10	Aug 19, 2024	10	Dec 14, 2024

Q-Band Counts 5 Timeframes: M1 = ADP °F || M2 = Daily Avg Temp % Change plus Directional Polarity Bias



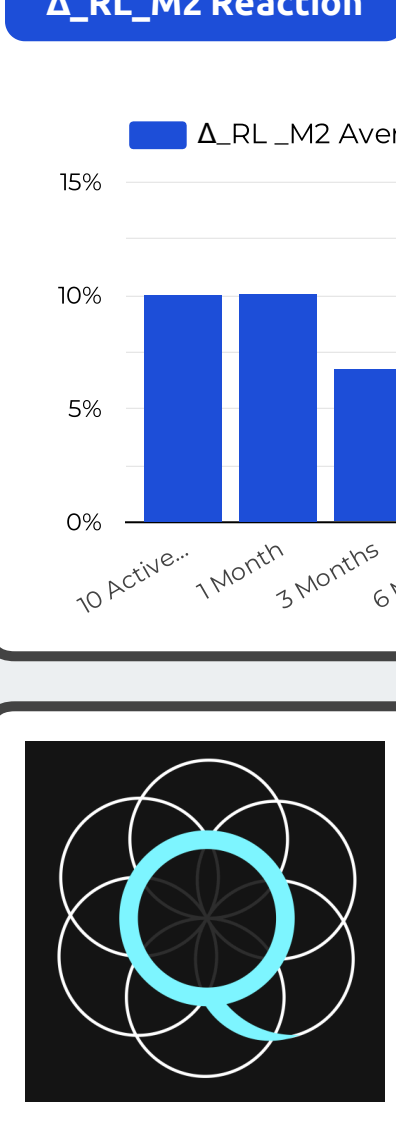
Timeframe Period	Average Reaction
10 Active Days	9.99%
1 Month	10.02%
3 Months	6.69%
6 Months	4.4%
1 Year	5.4%
Distant 6 Months	6.46%

Additional Overlay details which so far seem useful with stable stock market data.

Reshaped Metric Values showing the Reaction Intensity averages over different timeframes.

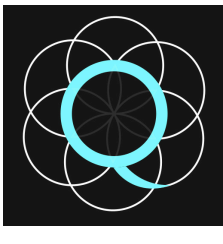
An Overlay of Reaction Intensity as %, not quantile ranked.

These are non-negative % values before Ordinal Ranking.



Version 3.1 -- 31 May 2026

- New Dew Point Skin
- Improved decimal point handling in QAE Engine
- Added optional Random Micro Jitter (Multiplicative)
- Added optional Random Micro Jitter (Additive)
- Added optional Ground Zero Constant Offset
- Corrected the Weak to Peak direction on heatmaps



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**Metric 1 - M1**

→ Baseline Lens

○\_BL =

Ranked by absolute state within the Complete One-Year Range

**Metric 2 - M2**

→ Reaction Lens

△\_RL =

Reshaped to Reaction Intensity from Prior State then Ranked abs 1yr range

All containers show identification badges for timeframes plus lens type with metric identity

**Border colors indicate timeframes**

1 Month

3 Months

6 Months

1 Year

Distant 6M

Reserved space: Automated system status and integration details

## QAE - Quintile Analysis Engine SEASONAL BACK-STITCH PAGE

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○\_BL\_M1 Baseline

1 Year

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Avg Dew Point (ADP) °F

45

Weak

Consecutive Days  
(no direction) Weak = 1

Lowest ADP °F

Jan 16, 2024

13

Highest ADP °F

May 27, 2024

78

Baseline Lens Q-Band M1  
Avg Dew Point °F Cut-Offs

Weak | Up To - 49.00

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△\_RL\_M2 Reaction

1 Year

Newest Active Dec 31, 2024  
DA Temp % Change

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Peak ▼

Consecutive Days  
Peak ▼ = 1  
(no direction) Peak = 3

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Nov 13, 2024

0.000%

Highest % Change

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Reaction Lens Q-Band M2  
DA Temp % Change Cut-Offs

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○\_BL\_M1 Baseline

&amp; △\_RL\_M2 Reaction

Newest Historical Activity

1 Year

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Peak - ADP °F M1

Peak - Temp % Change M2

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Dec 26, 2024	Median	6th	Strong ▲
Dec 25, 2024	Moderate	7th	Peak ▼
Dec 24, 2024	Moderate	8th	Peak ▲
Dec 23, 2024	Moderate	9th	Peak ▲
Dec 22, 2024	Weak	10th	Moderate ▲

Peak List	Date_○_BL...
1	Sep 5, 2024
2	Sep 3, 2024
3	Sep 1, 2024
4	Aug 31, 2024
5	Aug 30, 2024
6	Aug 29, 2024
7	Aug 28, 2024
8	Aug 22, 2024
9	Aug 21, 2024
10	Aug 19, 2024

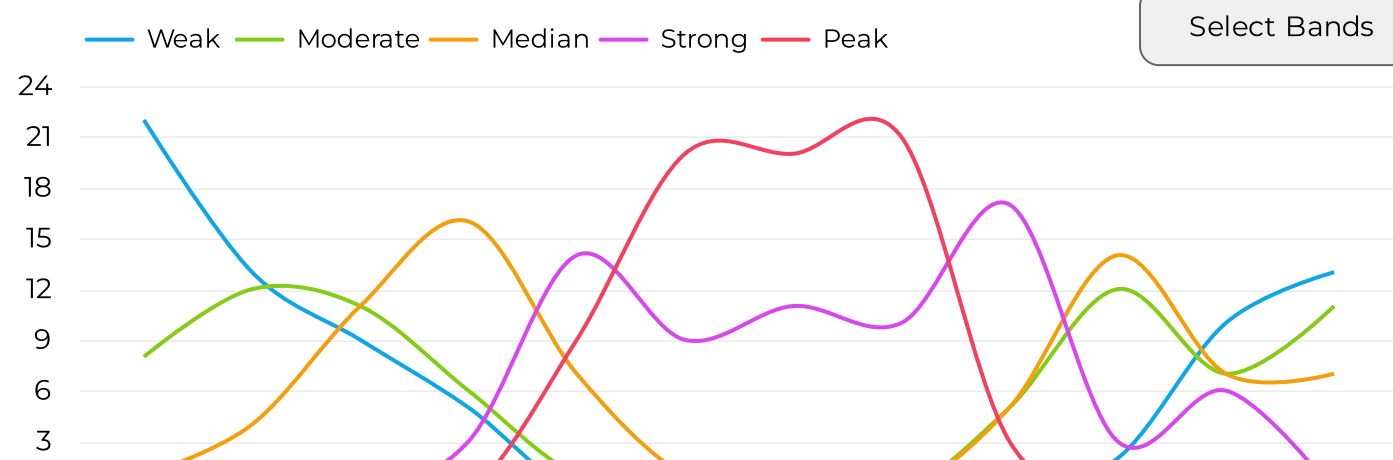
Peak List	Date_△_RL...
1	Dec 31, 2024
2	Dec 30, 2024
3	Dec 29, 2024
4	Dec 25, 2024
5	Dec 24, 2024
6	Dec 23, 2024
7	Dec 21, 2024
8	Dec 19, 2024
9	Dec 18, 2024
10	Dec 14, 2024

Monthly Q-Band Counts: ON-TOP M1 = Avg Dew Point °F ---- BELOW M2 = Daily Avg Temp % Change

○\_BL\_M1 Baseline

Monthly Q-Band ADP °F Trajectory

1 Year



○\_BL\_M1 Baseline

Monthly Q-Band ADP °F Dispersion

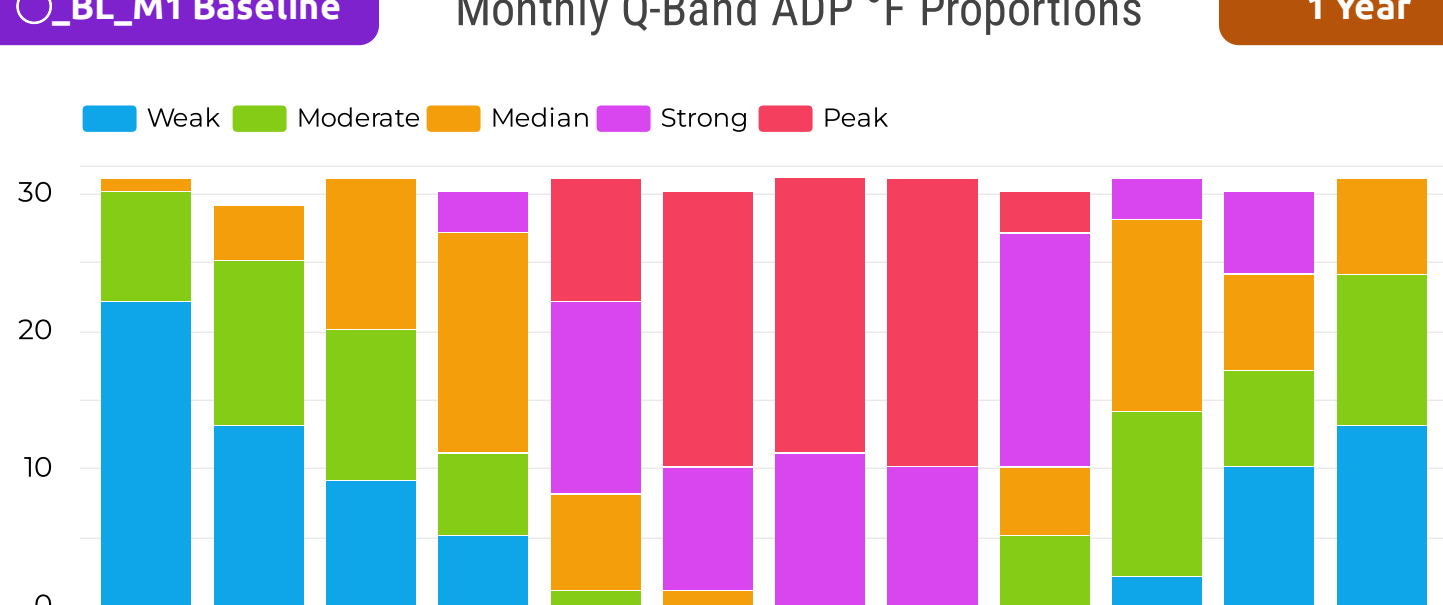
1 Year

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Peak	0	0	0	0	9	20	20	21	3	0	0	0
Strong	0	0	0	3	14	9	11	10	17	3	6	0
Median	1	4	11	16	7	1	0	0	5	14	7	7
Moderate	8	12	11	6	1	0	0	0	5	12	7	11
Weak	22	13	9	5	0	0	0	0	0	2	10	13

○\_BL\_M1 Baseline

Monthly Q-Band ADP °F Proportions

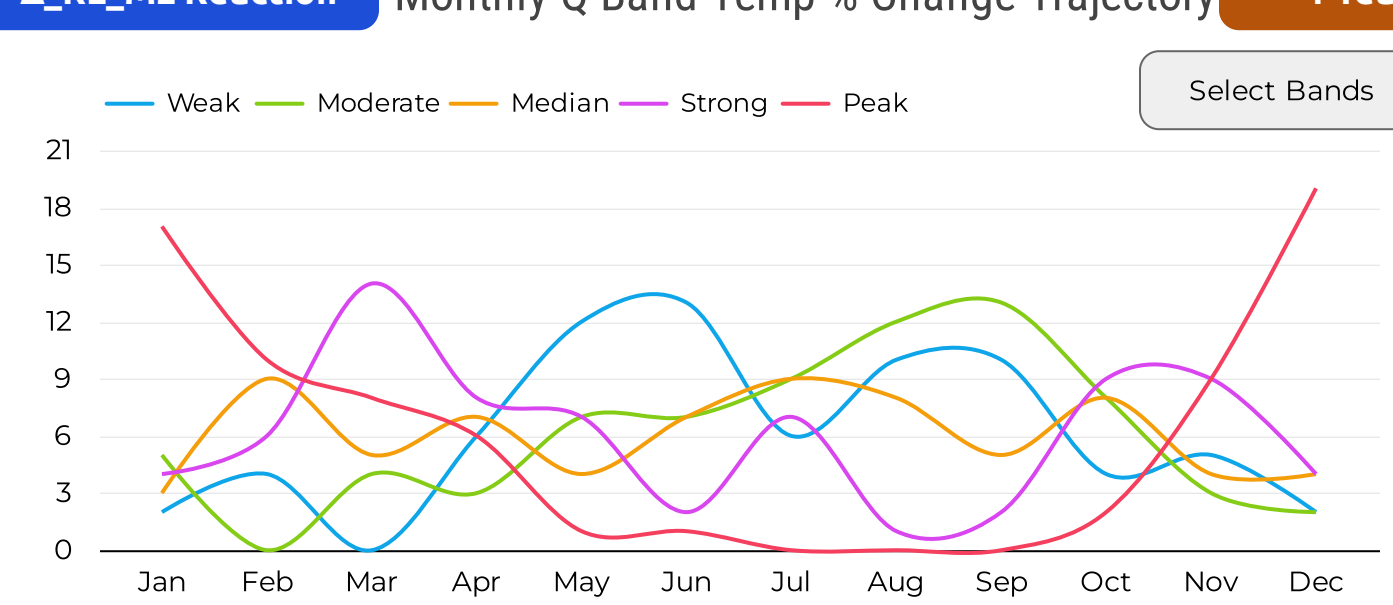
1 Year



△\_RL\_M2 Reaction

Monthly Q-Band Temp % Change Trajectory

1 Year



△\_RL\_M2 Reaction

Monthly Q-Band Temp % Change Dispersion

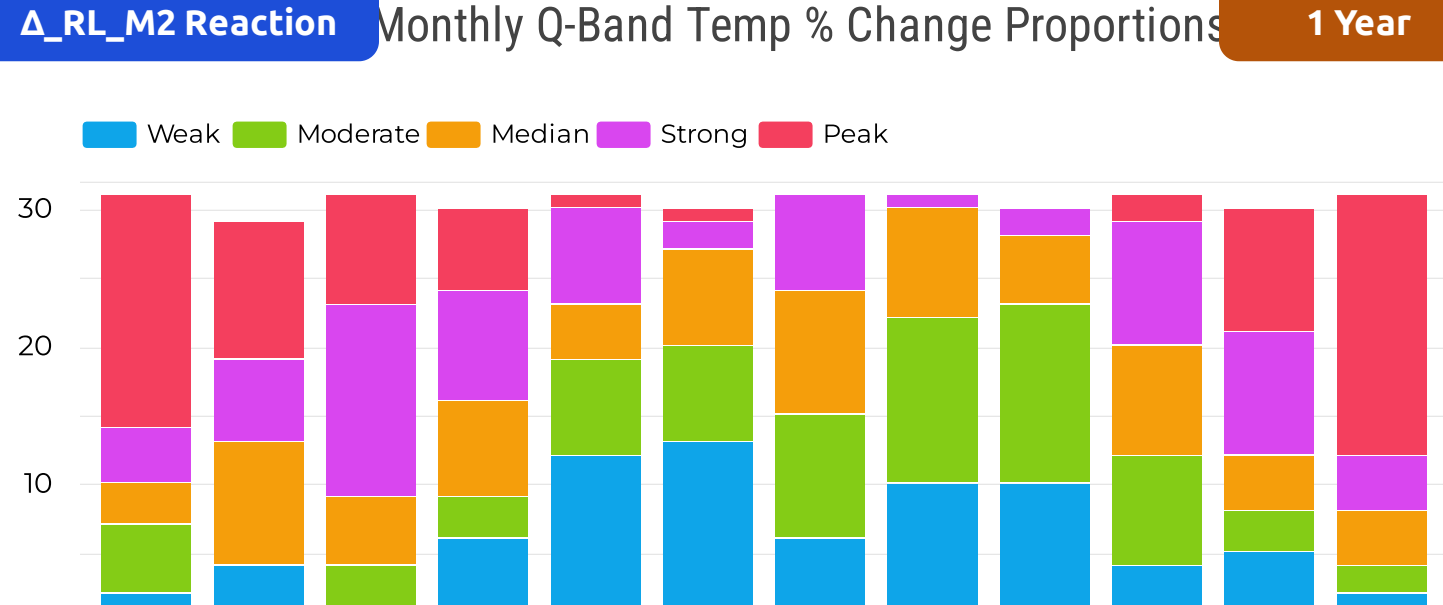
1 Year

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Peak	17	10	8	6	1	1	0	0	0	2	9	19
Strong	4	6	14	8	7	2	7	1	2	9	9	4
Median	3	9	5	7	4	7	9	8	5	8	4	4
Moderate	5	0	4	3	7	7	9	12	13	8	3	2
Weak	2	4	0	6	12	13	6	10	10	4	5	2

△\_RL\_M2 Reaction

Monthly Q-Band Temp % Change Proportions

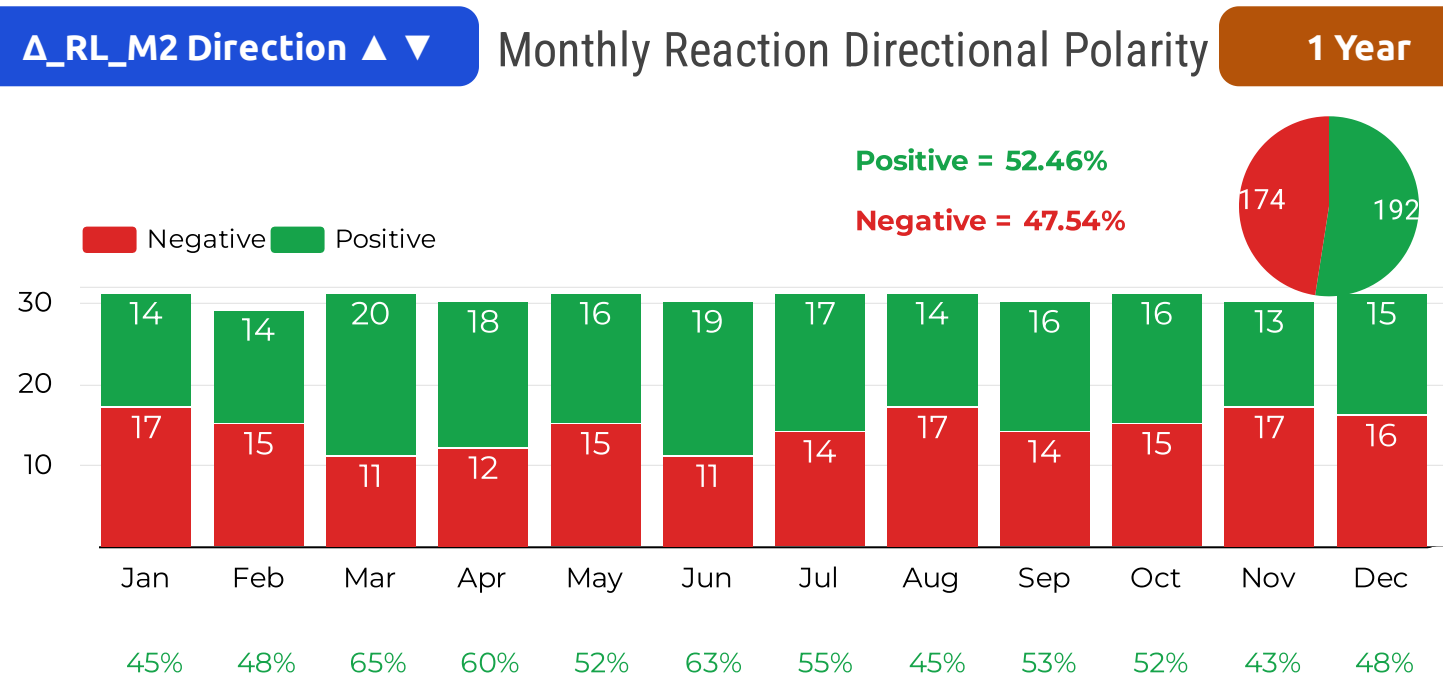
1 Year



△\_RL\_M2 Direction ▲ ▼

Monthly Reaction Directional Polarity

1 Year



These 3 barcharts / tables leftside are all from the same underlying M1 data-table which has indexed Q-Bands into monthly buckets

These 3 barcharts / tables leftside are all from the same underlying M2 data-table which has indexed Q-Bands into monthly buckets

The Directional Bias barchart is a separated polarity data-table