



The Power of Radio Through the Lenses of Emotional Engagement



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Industry myth: "Everyone knows, sight, sound and motion are superior to an audio ad!"

Background

The Cumulus Media | Westwood One Audio Active Group® commissioned Mediaprobe, a leader in neuro creative testing, to determine the emotional impact of AM/FM radio ads.

Mediaprobe measured second-by-second Electrodermal Activity (EDA) and dial data on the response of respondents to pre-recorded AM/FM radio segments in various genres for the purpose of understanding overall strength of ad engagement, brand fit, and recall of the AM/FM radio ads. 227 adult 18+ respondents participated. The study took place June 26–July 7, 2023.

The key learning objectives were understanding the emotional signature of successful AM/FM radio ads and comparing Mediaprobe AM/FM radio benchmarks against overall TV norms.

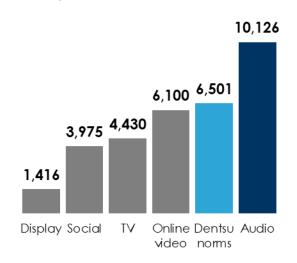




Dentsu Lumen: Audio attention and brand equity are superior to visual media; Audio is the most cost efficient

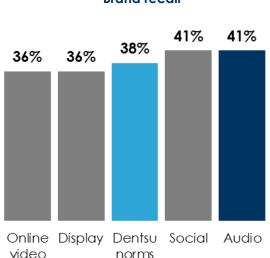
Audio has +56% greater attentiveness scores versus Dentsu norms

Average attentive seconds per (000) - APM



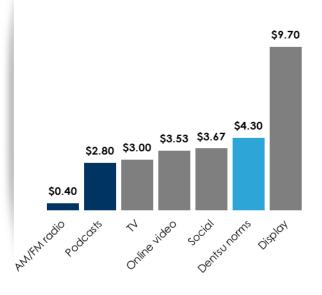
Audio generates +8% greater brand recall versus Dentsu norms

Brand recall



AM/FM radio and podcasts are more cost efficient than TV and Dentsu norms

Attention CPM (aCPM)



ABX conducted a comprehensive analysis of 40,000 ads over a two year period

Largest head-to-head examination of TV and AM/FM radio ads

Study included:

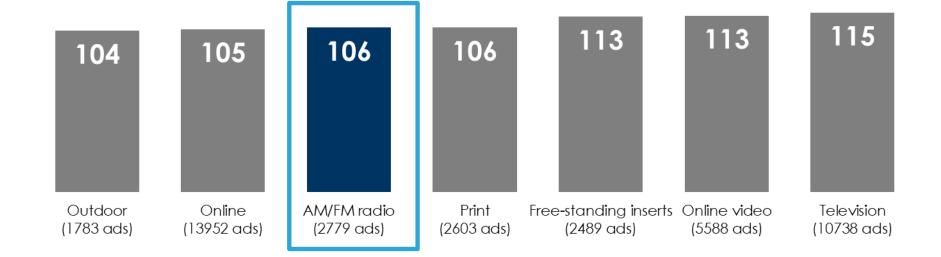
- 10,738 TV ads
- 2,779 AM/FM radio ads





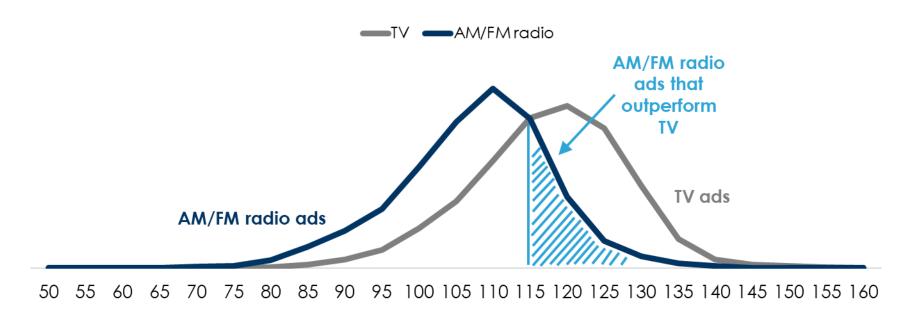
Of 40,000 recently ads tested, AM/FM radio is 92% as effective as TV at one-fourth the CPM and is comparable to print, online display, and outdoor

Creative effectiveness by media type tested April 2020 – April 2022 ABX Index



ABX: Best testing AM/FM radio ads outperform 48% of all TV ads even without sight/motion

ABX Index: Creative effectiveness by media type



Mediaprobe metrics



- The Mediaprobe sensor is worn on the hand as consumers are exposed to content in their home.
- Electrodermal Activity (EDA):
 second-by-second engagement is
 calculated from the average of
 electrodermal activity signal. This is a
 very robust measure of emotional
 activation.
- Emotional Impact Score (EIS):
 Mediaprobe's impact metric is
 calculated from the electrodermal
 activity (EDA) of the audience
 exposed to content.





Measuring and activating emotion: Mediaprobe's sensor captures emotional engagement in the home and at scale

Panelists receive sensors in the mail and set them up

Mediaprobe manages a community of +3500 panelists



Panelists download the Mediaprobe MediaTest

Panelists listen to the content in their home





Most decisions are made unconsciously not rationally

"In the words of Jonathan Haidt, "The conscious mind thinks it's the Oval Office, when in reality it's the press office. By this he means that we believe we are issuing executive orders, while most of the time we are actually engaged in hastily constructing plausible post-rationalizations to explain decision taken somewhere else, for reasons we do not understand. But the fact that we can deploy reason to explain our actions post-hoc does not mean it was reason that decided on that action in the first place, or indeed that the use of reason can help obtain it. Much of the time we pretend that conscious human agency is the only force that drives our behavior, and therefore disparage other less obvious behaviors that we have adopted to hack our unconscious processes as if they were irrational, wistful or absurd."

Rory Sutherland, Vice Chairman, Ogilvy, in his book, Alchemy: The Dark Art and Curious Science of Creative Magic in Brands, Business and Life

Measuring Electrodermal Activity is an objective way of quantifying emotion in media and advertising content

What people feel: Implicit



Mediaprobe sensor captures emotional engagement with galvanic skin response (GSR)

What they think: Conscious/dial



Explicit capture of likes and dislikes throughout the media content

What they say: Survey



Panelist are asked pre and post session questions to enhance learning



Ad block design: Consumers were exposed to a 30-minute simulation of an actual AM/FM radio broadcast that included talk content, songs, and ad breaks

Each "broadcast"
was ~30 minutes
across 4 genres
(Urban, News, Adult
Contemporary, and
Rock/Oldies)

36 AM/FM radio ads were tested in total

Each "broadcast"
had 3 ad breaks
and the average
commercial
break had 3 ads

227 people took part in the study

Each "broadcast" had a sample size of 75 people

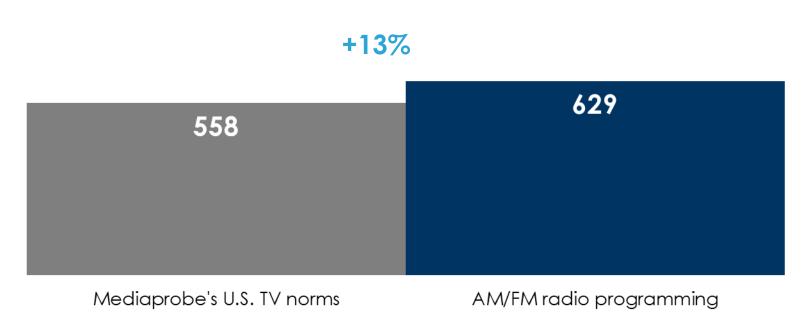
Consumers listened to at least 3 of the 4 broadcasts

Each ad was exposed to 225 people

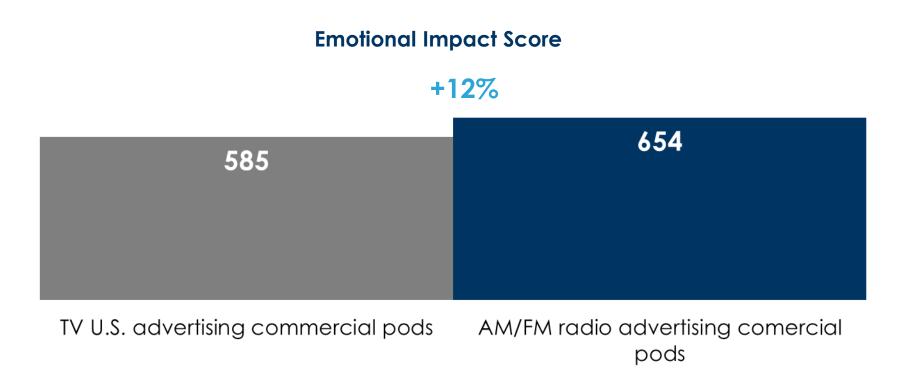


AM/FM radio programming outperforms Mediaprobe's U.S. TV norm by +13%

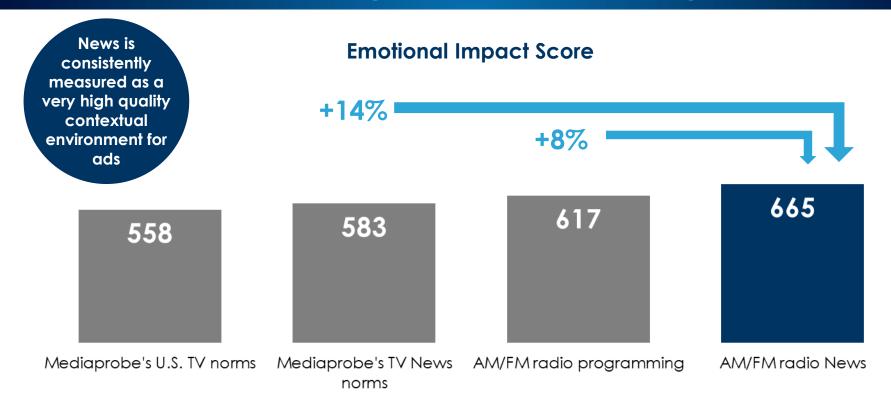
Emotional Impact Score



The emotional impact of commercials: AM/FM radio advertising pods outperform TV advertising by +12%, making AM/FM radio a premium platform for brands

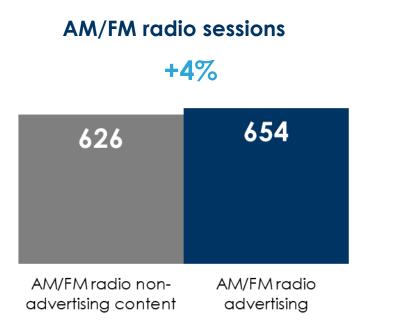


AM/FM radio News is the most impactful genre, outperforming AM/FM radio by +8% and TV News by +14%

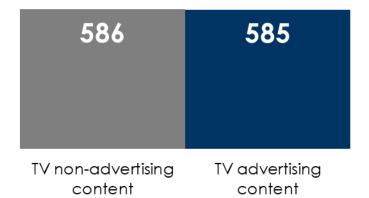


AM/FM radio advertising blocks were more +4% emotionally engaging than radio programming blocks

Emotional Impact Score



Mediaprobe TV data



Despite lacking "sight and motion," AM/FM radio individual ads are +5% more impactful than individual TV ads



+5%



4,670 individual Mediaprobe TV ads

32 individual Mediaprobe AM/FM radio ads



Audio trumps video in creating consumer engagement with emotion-based stories: Game of Thrones audio book beats the TV show in consumer engagement

Published by Nature Research, a study of consumers who were exposed to video and audio narratives measured reactions with sensors placed at the wrists to measure heart rates, electrodermal activity, and body temperatures. The conclusion?

Consumers are far more engaged with an audio story than a video narrative. The *Game of Thrones* audio book audience showed greater physiological responses (heart rate, body temperature, and galvanic skin response) than viewers of the TV show.

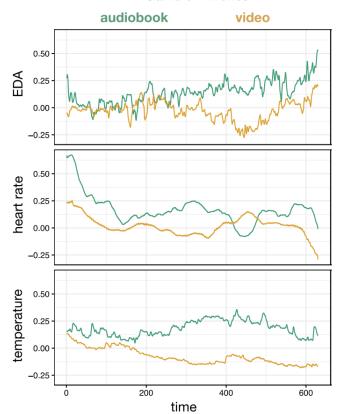
The authors report: "Physiological responses revealed more cognitive and emotional engagement while listening to audio narratives. ... spoken narratives require the participant to be an actively engaged listener, whereas videos deliver rich stimulation to a more passive viewer. The pictures in the listener's mind [from the audio narrative] may not be as vivid and as detailed as those onscreen ... yet the imaginative generation of those images requires greater cognitive and emotional processing, and so they are physiologically more engaging."



Consumers are far more engaged with an audio story than a video narrative

The Game of Thrones audio book audience showed greater physiological responses (heart rate, body temperature, and galvanic skin response) than viewers of the TV show

Game of Thrones





Mediaprobe also conducted a physical feature analysis of the creative

The analysis examined the physical sound features of the ads and the context (the show) to understand which physical elements determine a higher listener response to ads.

The analysis shows revealed:

- The higher pitch contrast between programming content and ads leads to higher impact. If the content has a low pitch, ads should be a high pitch, and vice versa.
- Louder ads lead to higher impact.





A regression analysis isolated the best performing creative elements: Female voiceovers, jingles, music, and five brand mentions

Gender:
Female
voiceover

With **jingles**

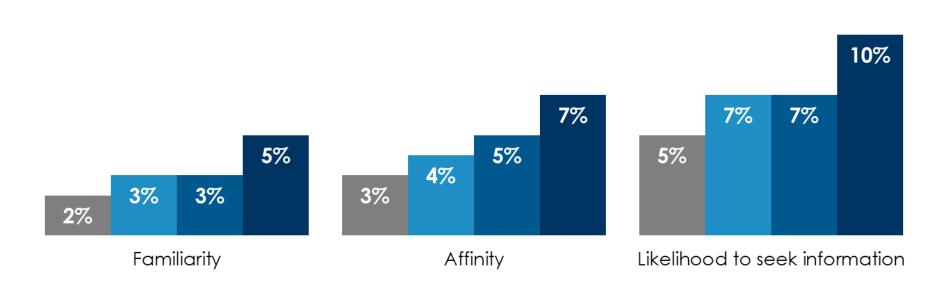
With background music

of brand mentions:Five brand mentions

Without disclaimer

Nielsen: More brand mentions drive lift so brand early and often





Key results

- Despite lacking "sight, sound, and motion," AM/FM radio programming was +13% more engaging than Mediaprobe's norm for television in the U.S. For advertisers, this means the AM/FM radio context for their ads has greater engagement than the TV context.
- Overall, AM/FM radio advertising outperformed TV advertising by +12%. These new findings
 validate the recently released Dentsu/Lumen and ABX studies, which revealed audio ads
 outperform video for attention and brand recall.
- AM/FM radio News was the most impactful genre, consistently measuring as a high-quality contextual environment for advertising (+14% than Mediaprobe TV News norms and +8% than total AM/FM radio).
- Mediaprobe audio benchmarks reveal the sound contrast between AM/FM radio programming and the ads drives higher attention and brand recall. For example, ads with music and jingles perform very well in spoken word programming due to the contrast.
- Creative best practices: Use female voiceovers, jingles, one voiceover, and include five brand mentions.





Thank You