

8.6.3. LOW POWER HDR (HDR4)

Antenna 4

Tested By:	12492
Date:	7/23/2019

Channel	Frequency (MHz)	AV power (dBm)
Low	2404	6.37
Middle	2441	6.43
High	2478	6.38

Antenna 3

Tested By:	12492
Date:	7/23/2019

Channel	Frequency (MHz)	AV power (dBm)
Low	2404	6.45
Middle	2441	6.48
High	2478	6.44

8.6.4. LOW POWER HDR (HDR8)

Antenna 4

Tested By:	12492
Date:	7/23/2019

Channel	Frequency (MHz)	AV power (dBm)
Low	2404	6.47
Middle	2441	6.49
High	2478	6.45

Antenna 3

Tested By:	12492
Date:	7/23/2019

Channel	Frequency (MHz)	AV power (dBm)
Low	2404	6.43
Middle	2441	6.48
High	2478	6.41

8.7. BEAMFORMING AVERAGE POWER

8.7.1 HIGH POWER HDR (HDR4)

Antenna 4 + Antenna 3

Tested By:	12492
Date:	7/23/2019

Channel	Frequency (MHz)	Average Power Antenna 4 (dBm)	Average Power Antenna 3 (dBm)	Total Power (dBm)
Low	2404	11.90	11.85	14.89
Middle	2441	11.87	11.95	14.92
High	2478	11.88	11.88	14.89

8.7.2 HIGH POWER HDR (HDR8)

Antenna 4 + Antenna 3

Tested By:	12492
Date:	7/23/2019

Channel	Frequency (MHz)	Average Power Antenna 4 (dBm)	Average Power Antenna 3 (dBm)	Total Power (dBm)
Low	2404	11.88	11.90	14.90
Middle	2441	11.94	11.95	14.96
High	2478	11.89	11.91	14.91

8.7.3 LOW POWER HDR (HDR4)

Antenna 4 + Antenna 3

Tested By:	12492
Date:	7/23/2019

Channel	Frequency (MHz)	Average Power Antenna 4 (dBm)	Average Power Antenna 3 (dBm)	Total Power (dBm)
Low	2404	6.41	6.39	9.41
Middle	2441	6.45	6.44	9.46
High	2478	6.43	6.40	9.43

8.7.4 LOW POWER HDR (HDR8)

Antenna 4 + Antenna 3

Tested By:	12492
Date:	7/23/2019

Channel	Frequency (MHz)	Average Power Antenna 4 (dBm)	Average Power Antenna 3 (dBm)	Total Power (dBm)
Low	2404	6.45	6.42	9.45
Middle	2441	6.41	6.37	9.40
High	2478	6.38	6.35	9.38

8.8. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247 (e)

RSS-247 (5.2) (b)

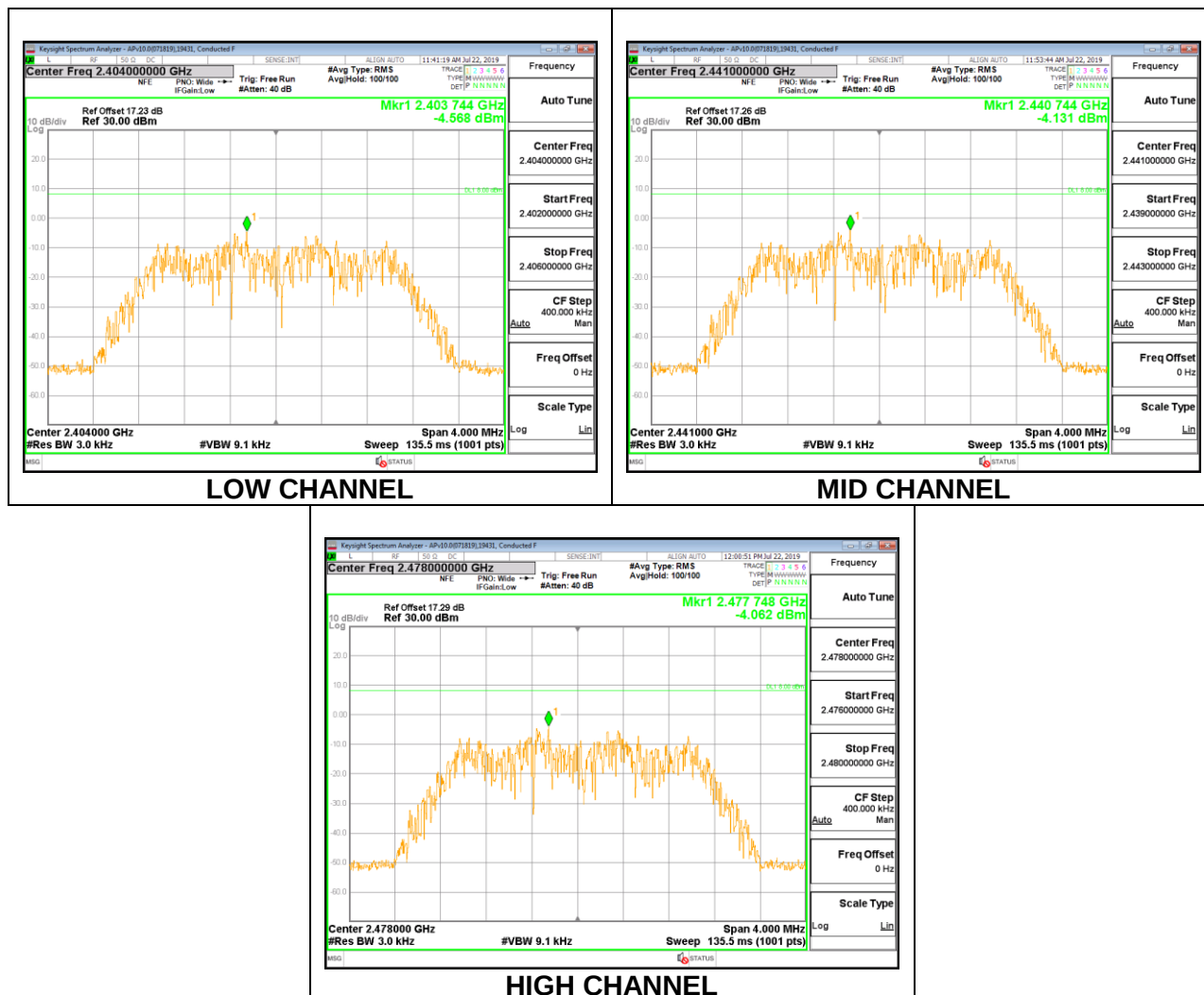
The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

RESULTS

8.8.1. HIGH POWER HDR (HDR4)

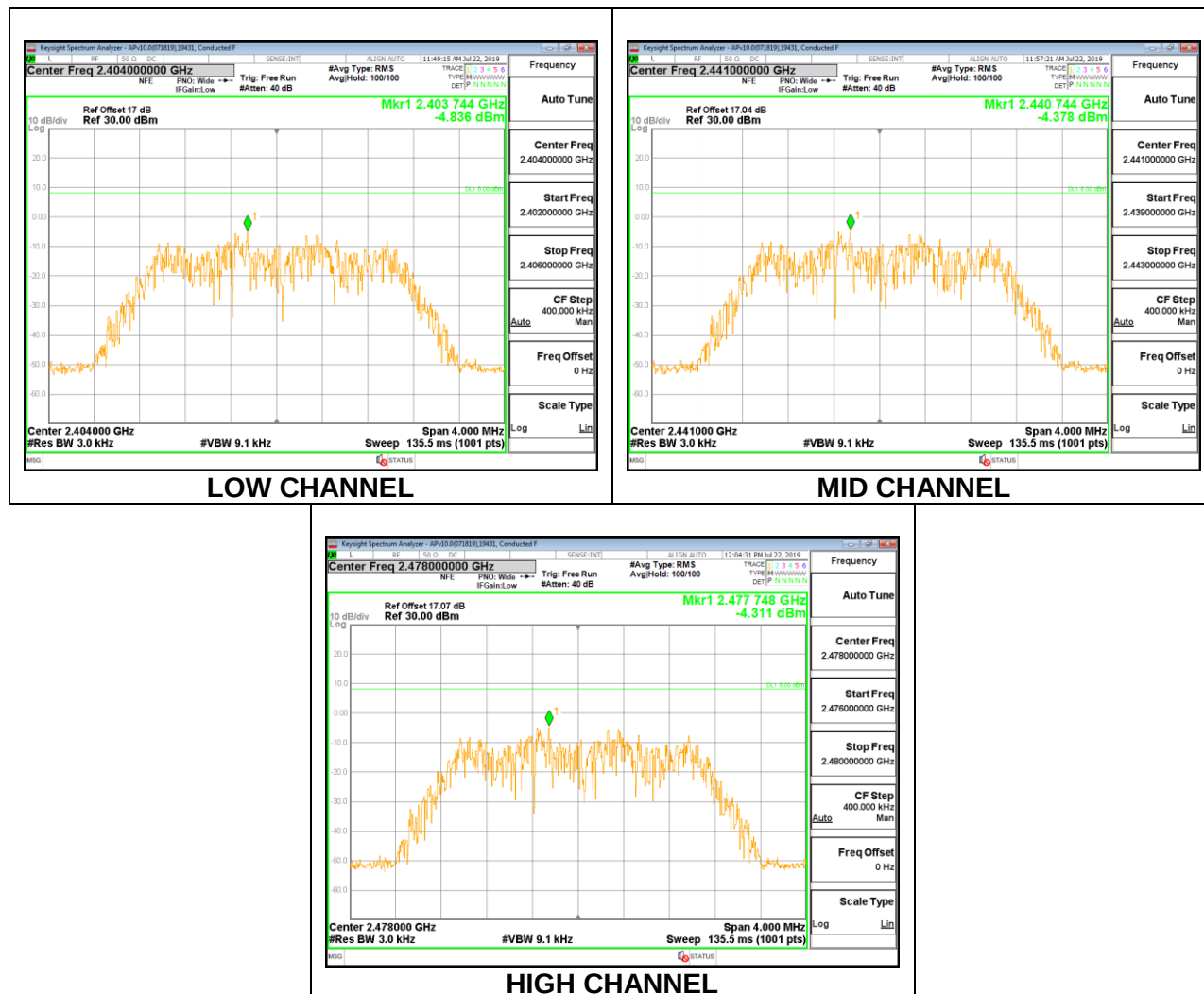
Antenna 4

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low	2404	-4.568	8	-12.57
Middle	2441	-4.131	8	-12.13
High	2478	-4.062	8	-12.06



Antenna 3

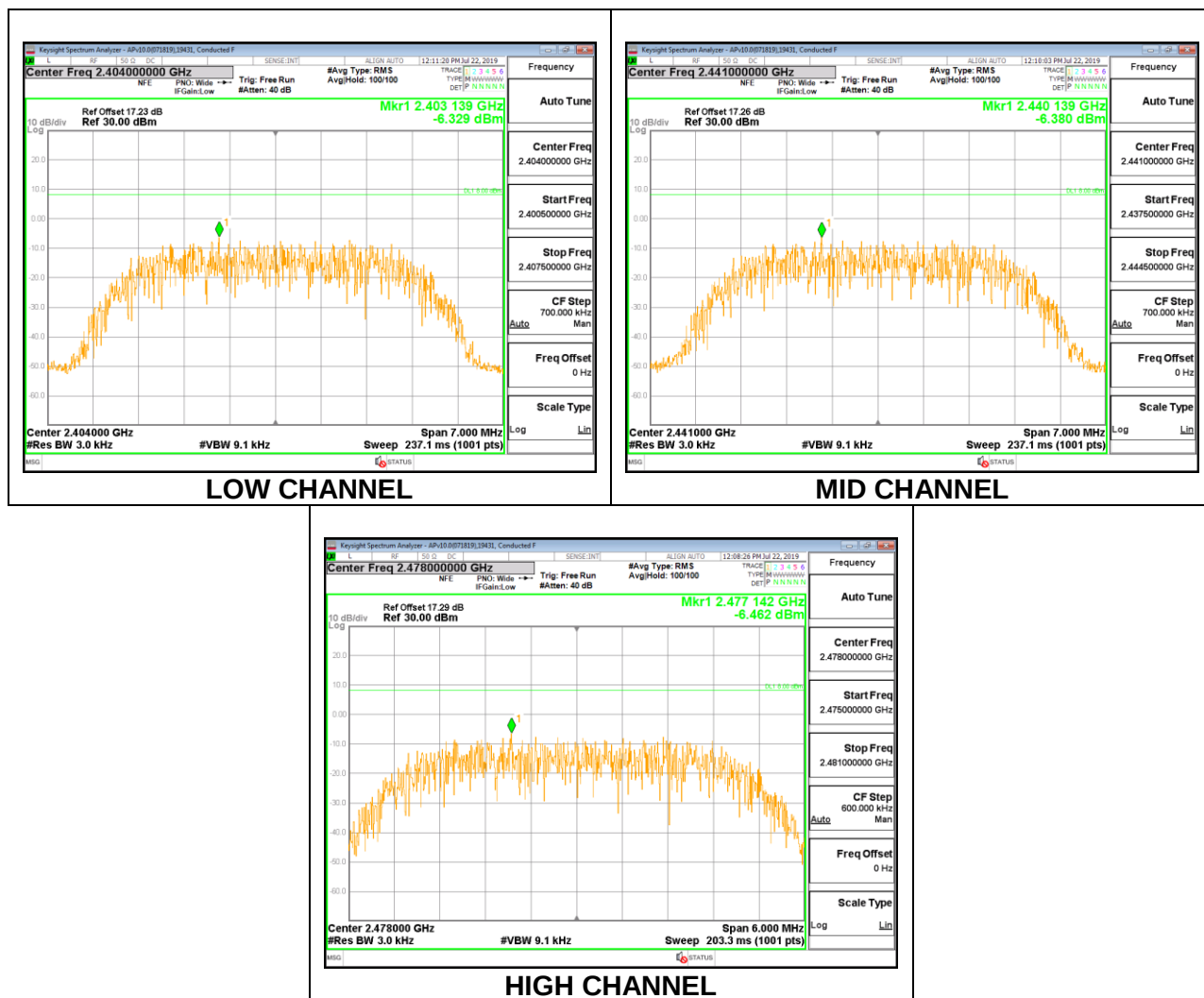
Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low	2404	-4.836	8	-12.84
Middle	2441	-4.378	8	-12.38
High	2478	-4.311	8	-12.31



8.8.2. HIGH POWER HDR (HDR8)

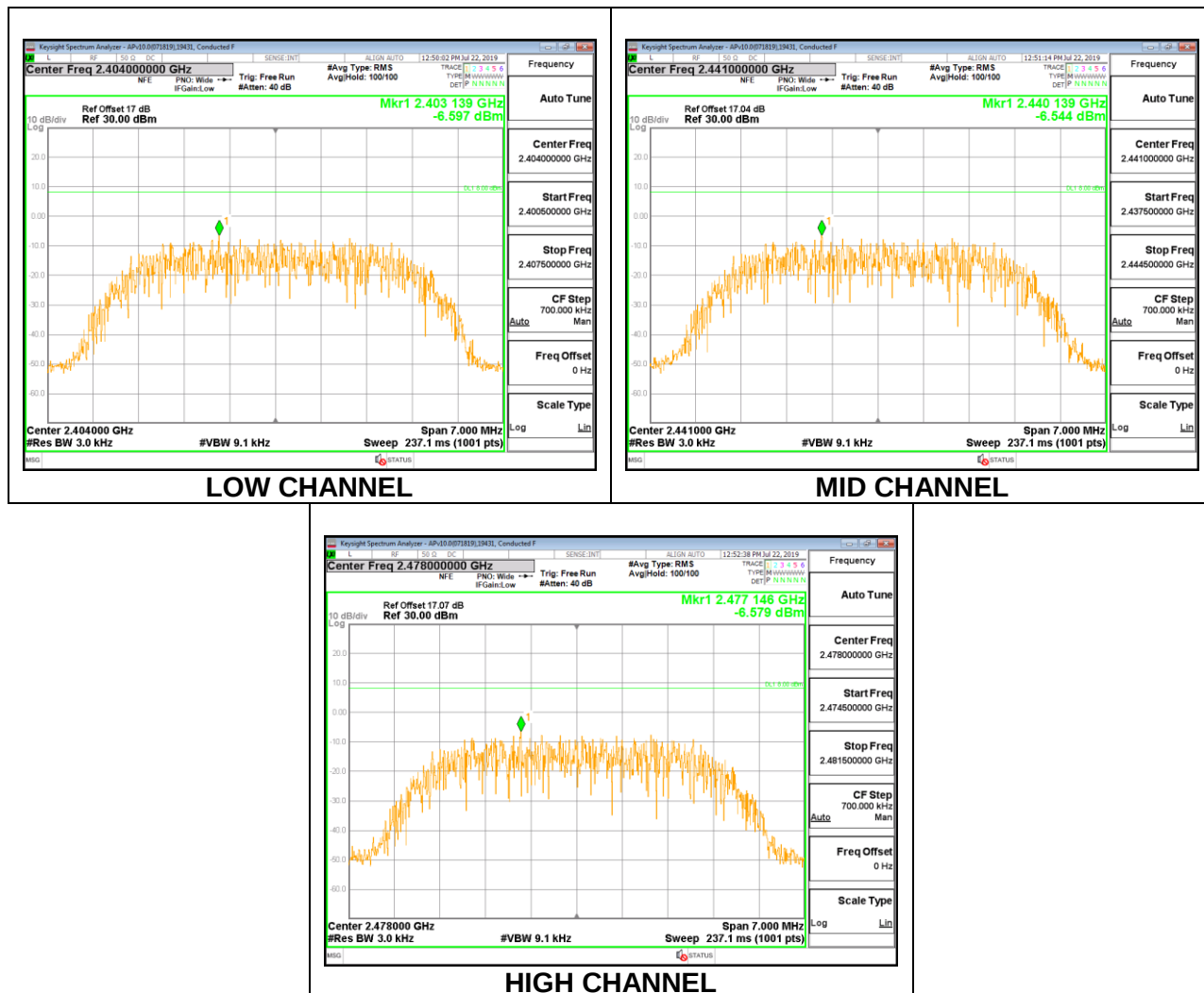
Antenna 4

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low	2404	-6.329	8	-14.33
Middle	2441	-6.380	8	-14.38
High	2478	-6.462	8	-14.46



Antenna 3

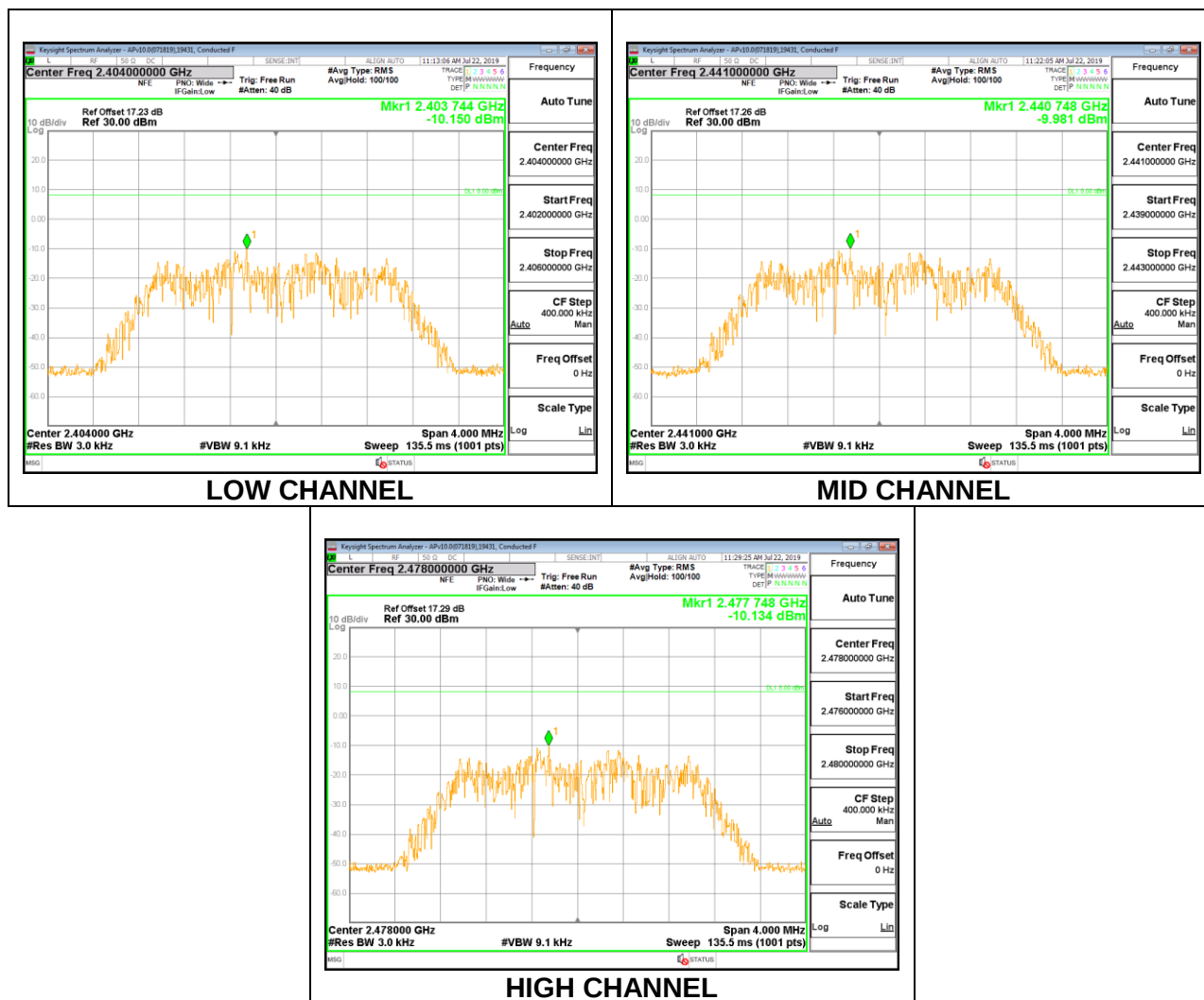
Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low	2404	-6.597	8	-14.60
Middle	2441	-6.544	8	-14.54
High	2478	-6.579	8	-14.58



8.8.3. LOW POWER HDR (HDR4)

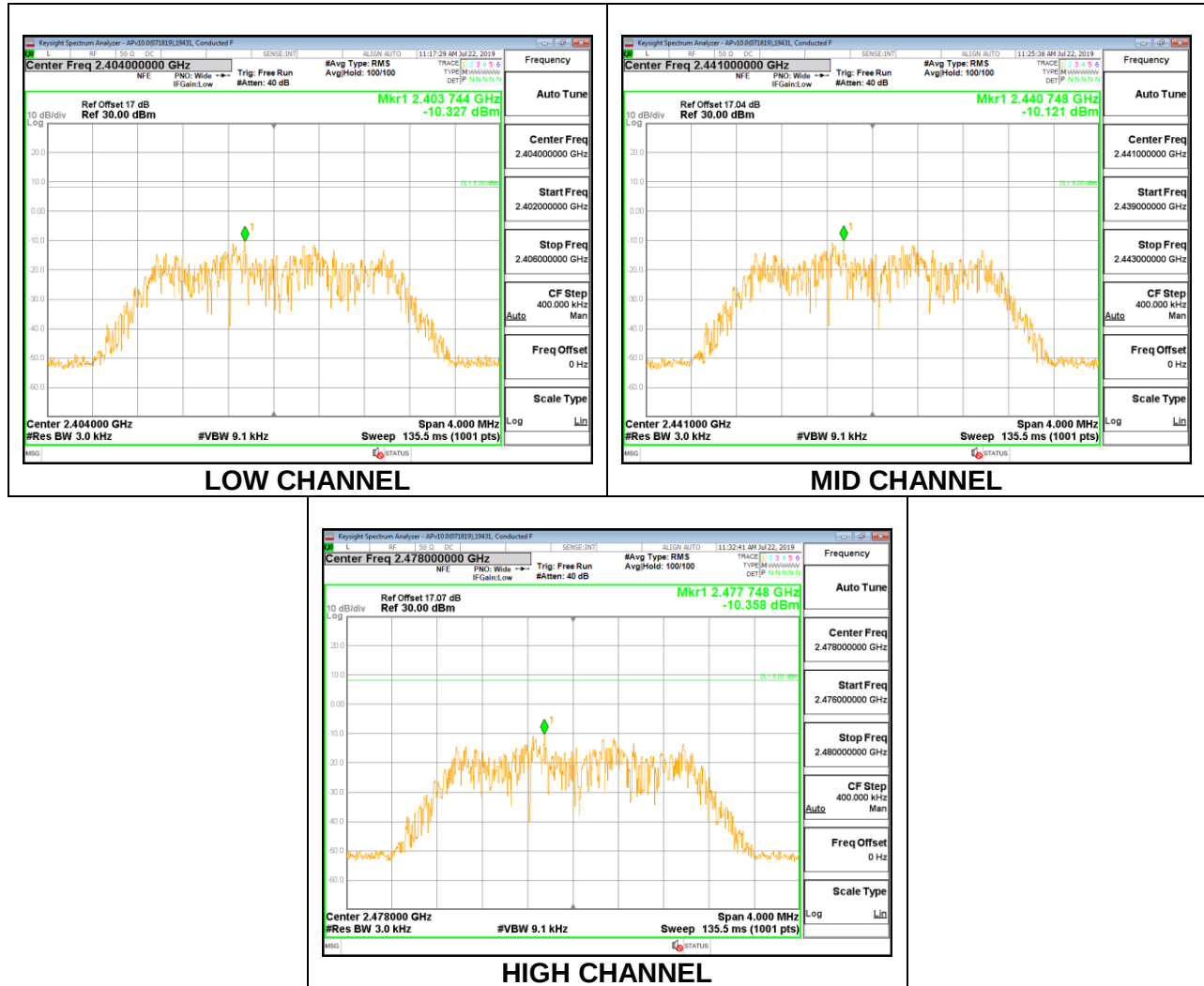
Antenna 4

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low	2404	-10.150	8	-18.15
Middle	2441	-9.981	8	-17.98
High	2478	-10.134	8	-18.13



Antenna 3

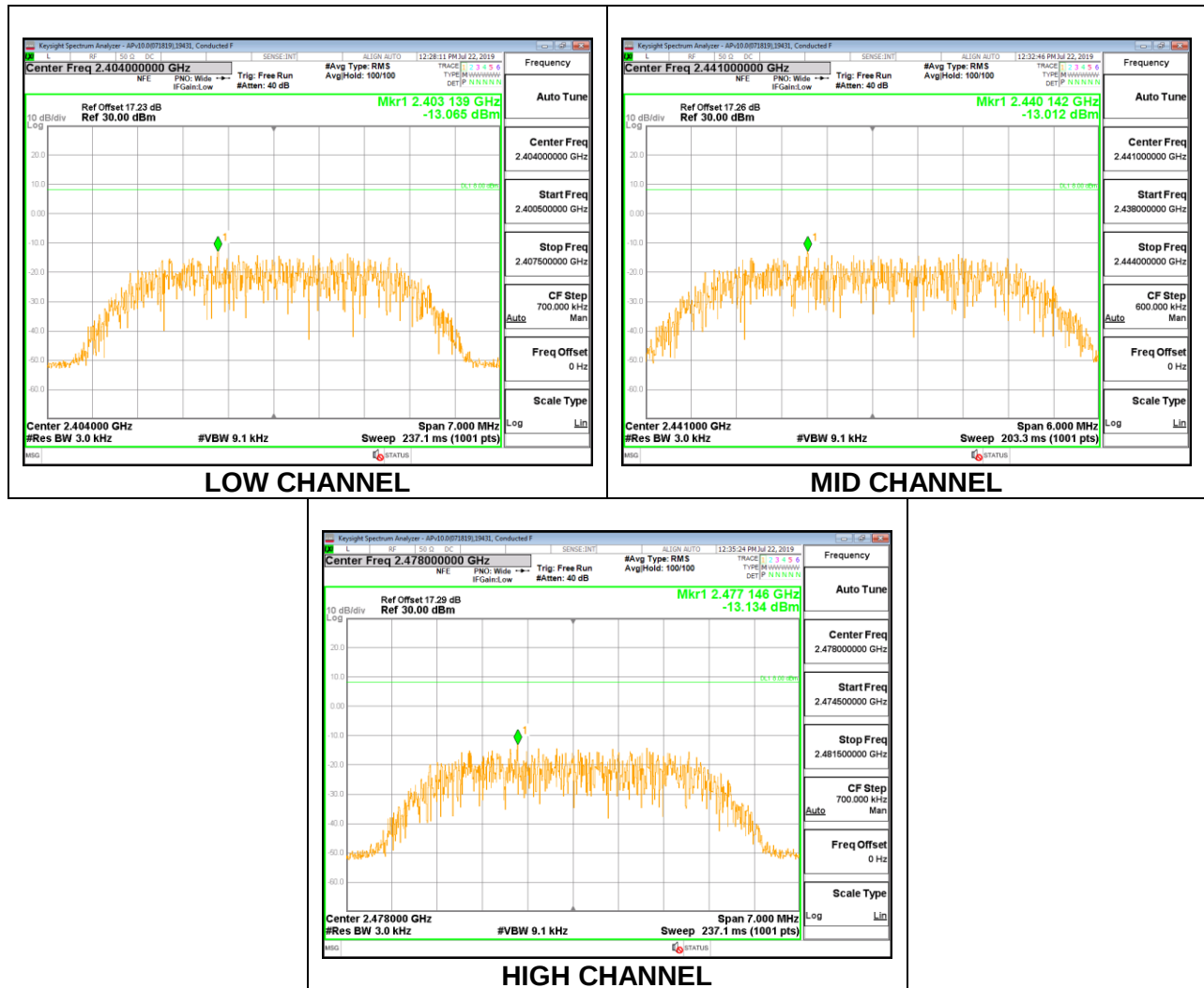
Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low	2404	-10.33	8	-18.33
Middle	2441	-10.12	8	-18.12
High	2478	-10.36	8	-18.36



8.8.4. LOW POWER HDR (HDR8)

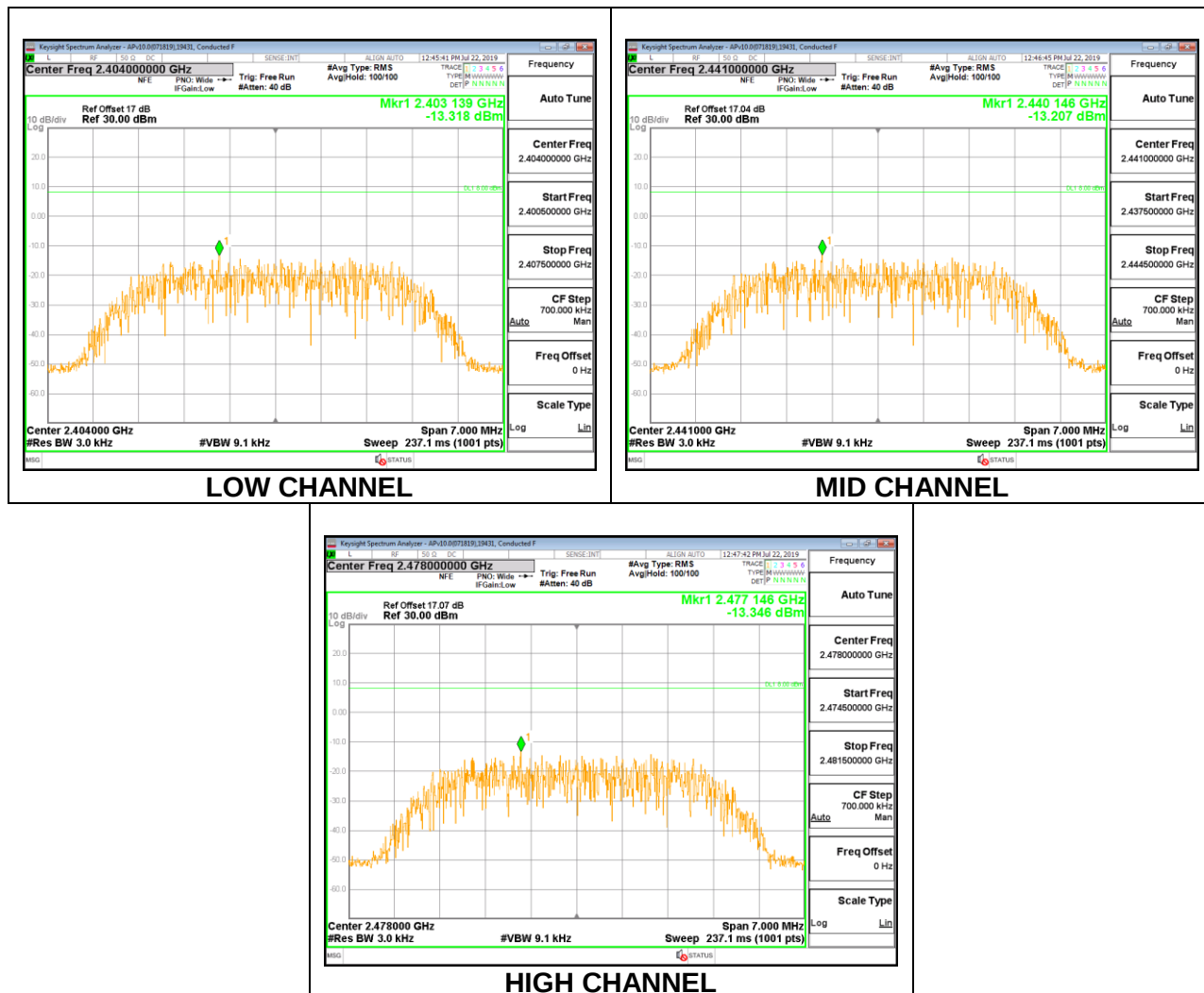
Antenna 4

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low	2404	-13.07	8	-21.07
Middle	2441	-13.01	8	-21.01
High	2478	-13.13	8	-21.13



Antenna 3

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low	2404	-13.32	8	-21.32
Middle	2441	-13.21	8	-21.21
High	2478	-13.35	8	-21.35



8.9. CONDUCTED SPURIOUS EMISSIONS

LIMITS

FCC §15.247 (d)

RSS-247 5.5

Output power was measured based on the use of a peak measurement, therefore the required attenuation is 20 dB.

RESULTS

8.9.1. HIGH POWER HDR (HDR4)

Antenna 4

