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A.4 TIME OF OCCUPANCY

Test Date	2024/10/14~17	Temp./Hum.	23°C/58~61%
Cable Loss	0.90 dB	Tested By	Brian Hsieh
Test Voltage	DC 6V (Via Battery)		

A.4.1 Time of Occupancy

Mode	Centre Frequency (MHz)	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
FASSTest (ANT A)	2405.376	3	1.500	20.700	<400
	2439.168	3	1.500	20.700	<400
	2472.960	3	1.500	20.700	<400

Observation Period:
23 channels* **0.4** seconds= **9.2** seconds
Centre Frequency: 2405.376MHz
For each second of **3** transmission appearance,the longest time of occupancy is
3 channels* **9.2** /2* **1.500** ms= **20.700** ms (<400ms)
Centre Frequency: 2439.168MHz
For each second of **3** transmission appearance,the longest time of occupancy is
3 channels* **9.2** /2* **1.500** ms= **20.700** ms (<400ms)
Centre Frequency: 2472.960MHz
For each second of **3** transmission appearance,the longest time of occupancy is
3 channels* **9.2** /2* **1.500** ms= **20.700** ms (<400ms)

Mode	Centre Frequency (MHz)	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
FASSTest (ANT B)	2405.376	3	1.500	20.700	<400
	2439.168	3	1.500	20.700	<400
	2472.960	3	1.500	20.700	<400

Observation Period:
23 channels* **0.4** seconds= **9.2** seconds
Centre Frequency: 2405.376MHz
For each second of **3** transmission appearance,the longest time of occupancy is
3 channels* **9.2** /2* **1.500** ms= **20.700** ms (<400ms)
Centre Frequency: 2439.168MHz
For each second of **3** transmission appearance,the longest time of occupancy is
3 channels* **9.2** /2* **1.500** ms= **20.700** ms (<400ms)
Centre Frequency: 2472.960MHz
For each second of **3** transmission appearance,the longest time of occupancy is
3 channels* **9.2** /2* **1.500** ms= **20.700** ms (<400ms)

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Mode	Centre Frequency (MHz)	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
T-FHSS (ANT A)	2407.50	1	1.400	17.3600	<400
	2437.50	1	1.400	17.3600	<400
	2467.50	1	1.400	17.3600	<400

Observation Period:
31 channels* **0.4** seconds= **12.4** seconds
Centre Frequency: 2407.50MHz
For each second of **1** transmission appearance,the longest time of occupancy is
1 channels* **12.4** /1* **1.4000** ms= **17.3600** ms (<400ms)
Centre Frequency: 2437.50MHz
For each second of **1** transmission appearance,the longest time of occupancy is
1 channels* **12.4** /1* **1.4000** ms= **17.3600** ms (<400ms)
Centre Frequency: 2467.50MHz
For each second of **1** transmission appearance,the longest time of occupancy is
1 channels* **12.4** /1* **1.4000** ms= **17.3600** ms (<400ms)

Mode	Centre Frequency (MHz)	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
T-FHSS (ANT B)	2407.50	1	1.500	18.6000	<400
	2437.50	1	1.500	18.6000	<400
	2467.50	1	1.500	18.6000	<400

Observation Period:
31 channels* **0.4** seconds= **12.4** seconds
Centre Frequency: 2407.50MHz
For each second of **1** transmission appearance,the longest time of occupancy is
1 channels* **12.4** /1* **1.5000** ms= **18.6000** ms (<400ms)
Centre Frequency: 2437.50MHz
For each second of **1** transmission appearance,the longest time of occupancy is
1 channels* **12.4** /1* **1.5000** ms= **18.6000** ms (<400ms)
Centre Frequency: 2467.50MHz
For each second of **1** transmission appearance,the longest time of occupancy is
1 channels* **12.4** /1* **1.5000** ms= **18.6000** ms (<400ms)

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A.4.2 Measurement Plots

FASSTest
ANT A

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FASSTest
ANT B

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T-FHSS
ANT A

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T-FHSS
ANT B

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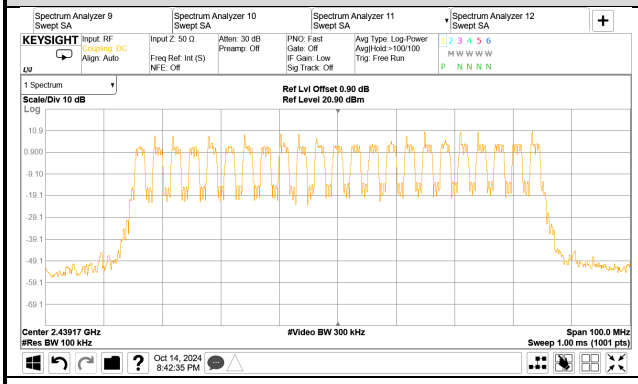
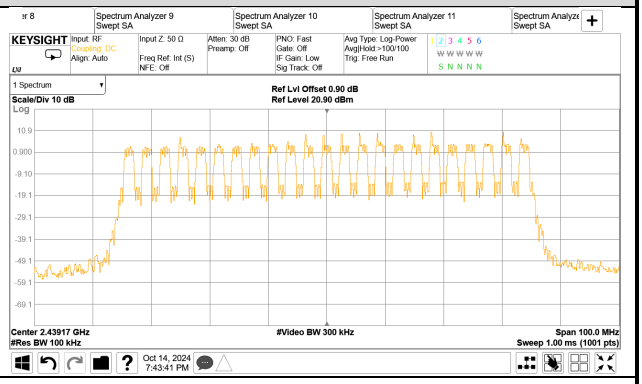
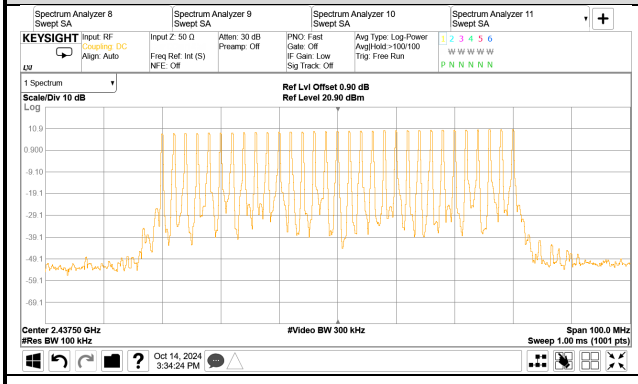
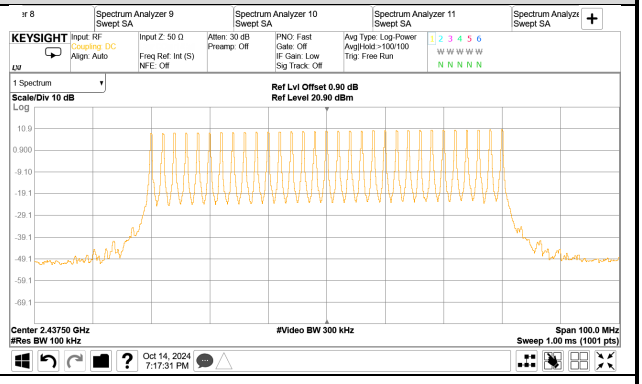
A.5 NUMBER OF HOPPING CHANNELS

Test Date	2024/10/14	Temp./Hum.	24°C/54%
Cable Loss	0.90 dB	Tested By	Brian Hsieh
Test Voltage	DC 6V (Via Battery)		

FASSTest	
ANT A	ANT B
	
The number hopping channel is 23.	The number hopping channel is 23.

T-FHSS	
ANT A	ANT B
	
The number hopping channel is 31.	The number hopping channel is 31.

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A.6 MAXIMUM PEAK OUTPUT POWER

Test Date	2024/10/14	Temp./Hum.	24°C/54%
Cable Loss	0.90 dB	Tested By	Brian Hsieh
Test Voltage	DC 6V (Via Battery)		

A.6.1 Maximum Peak Output Power

Mode	Centre Frequency (MHz)	Peak Output Power		Limit
		dBm	W	
FASSTest (ANT A)	2405.376	8.50	0.007	21dBm (0.125W)
	2439.168	9.68	0.009	
	2472.960	10.49	0.011	
FASSTest (ANT B)	2405.376	8.65	0.007	
	2439.168	9.71	0.009	
	2472.960	10.40	0.011	

Mode	Centre Frequency (MHz)	Peak Output Power		Limit
		dBm	W	
T-FHSS (ANT A)	2407.500	8.53	0.007	21dBm (0.125W)
	2437.500	9.63	0.009	
	2467.500	10.40	0.011	
T-FHSS (ANT B)	2407.500	8.66	0.007	
	2437.500	9.62	0.009	
	2467.500	10.29	0.011	

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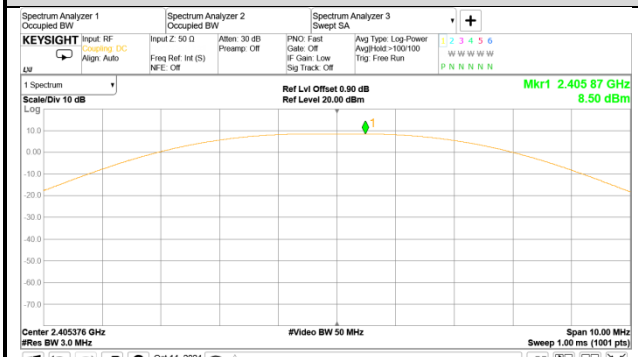
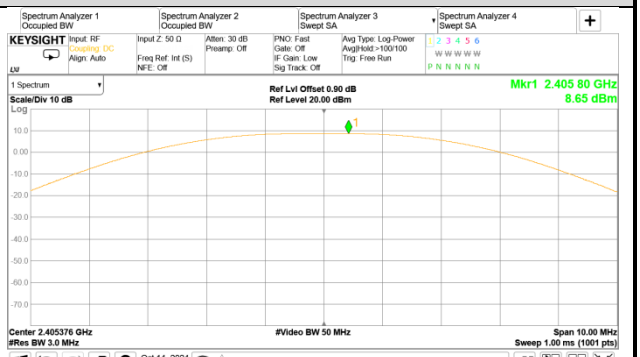
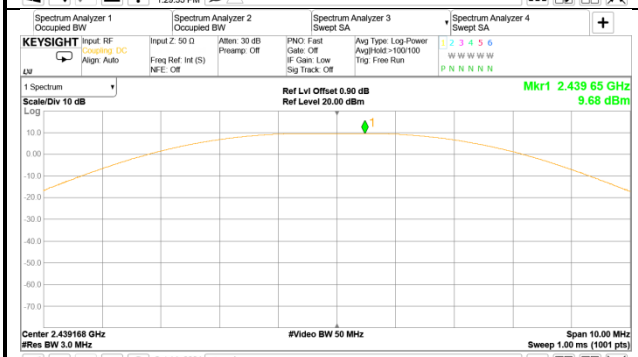
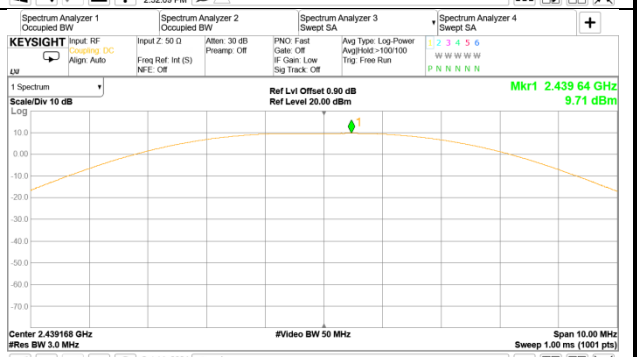
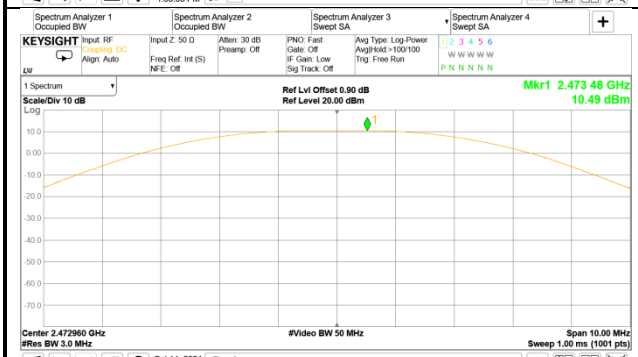
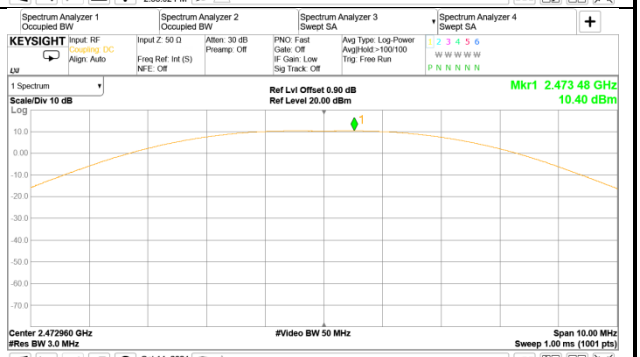
A.6.2 Measurement Plots

FASSTest	
ANT A	ANT B
	
	
	

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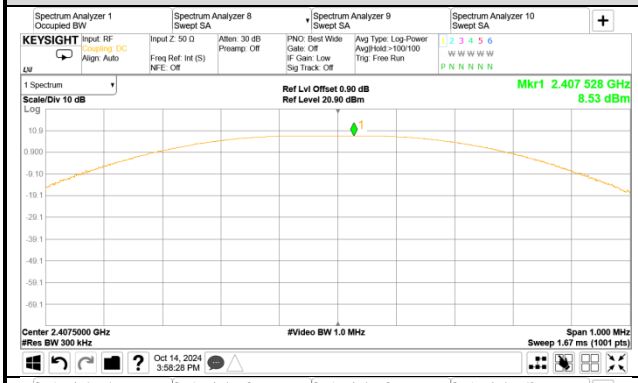
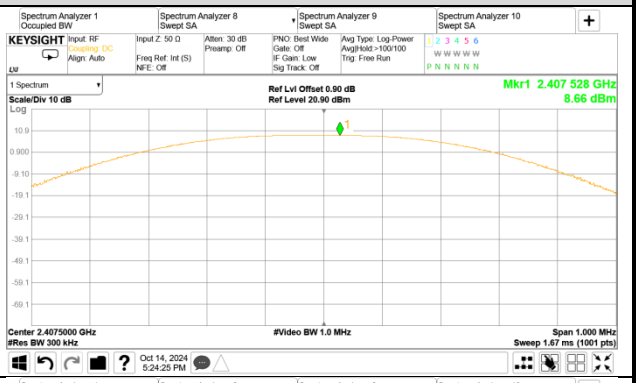
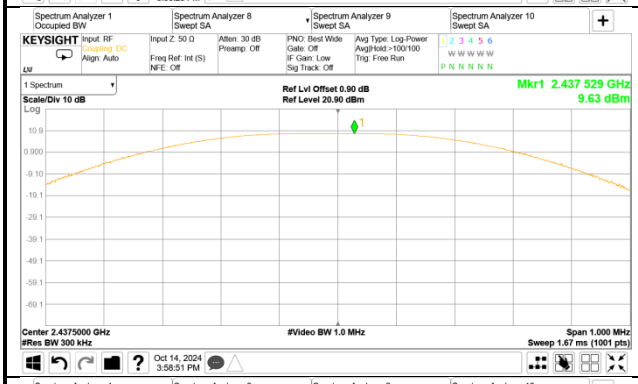
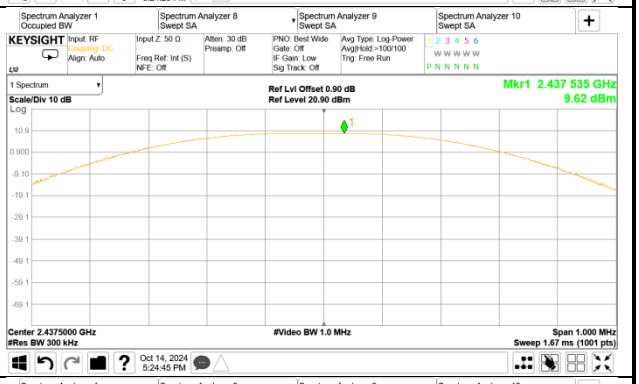
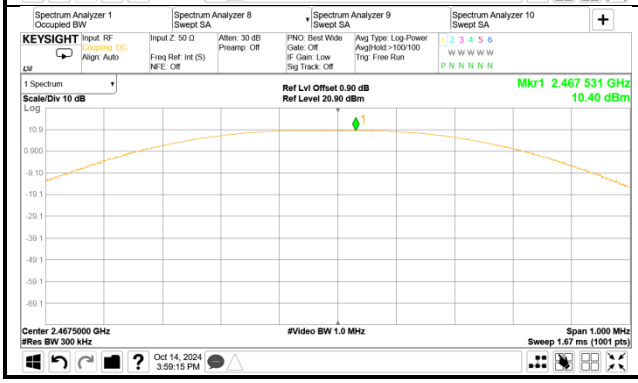
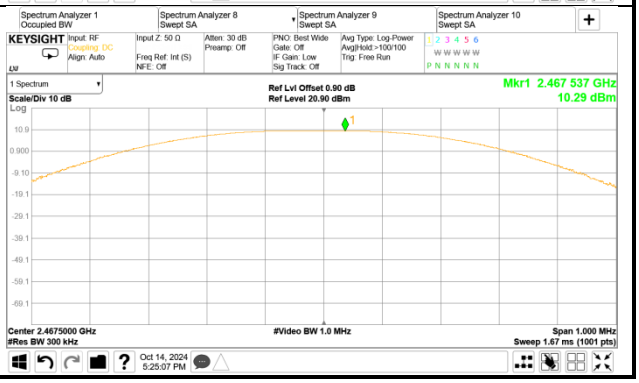
T-FHSS	
ANT A	ANT B
	
	
	

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A.7 EMISSION LIMITATIONS MEASUREMENT

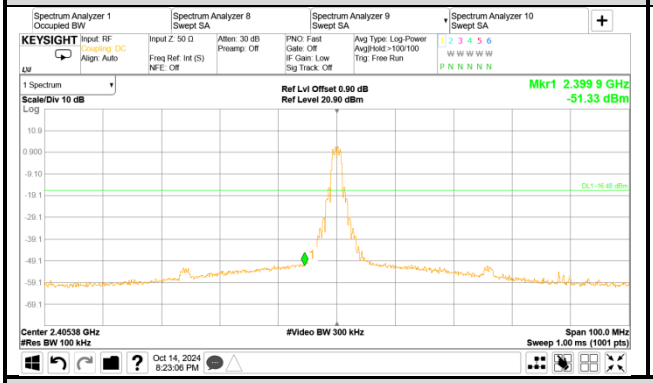
Test Date	2024/10/14	Temp./Hum.	24°C/54%
Cable Loss	0.90 dB	Tested By	Brian Hsieh
Test Voltage	DC 6V (Via Battery)		

A.7.1 Band Edge

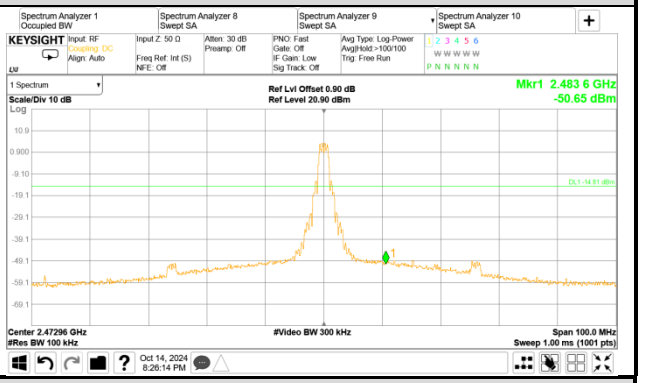
FASSTest

ANT A

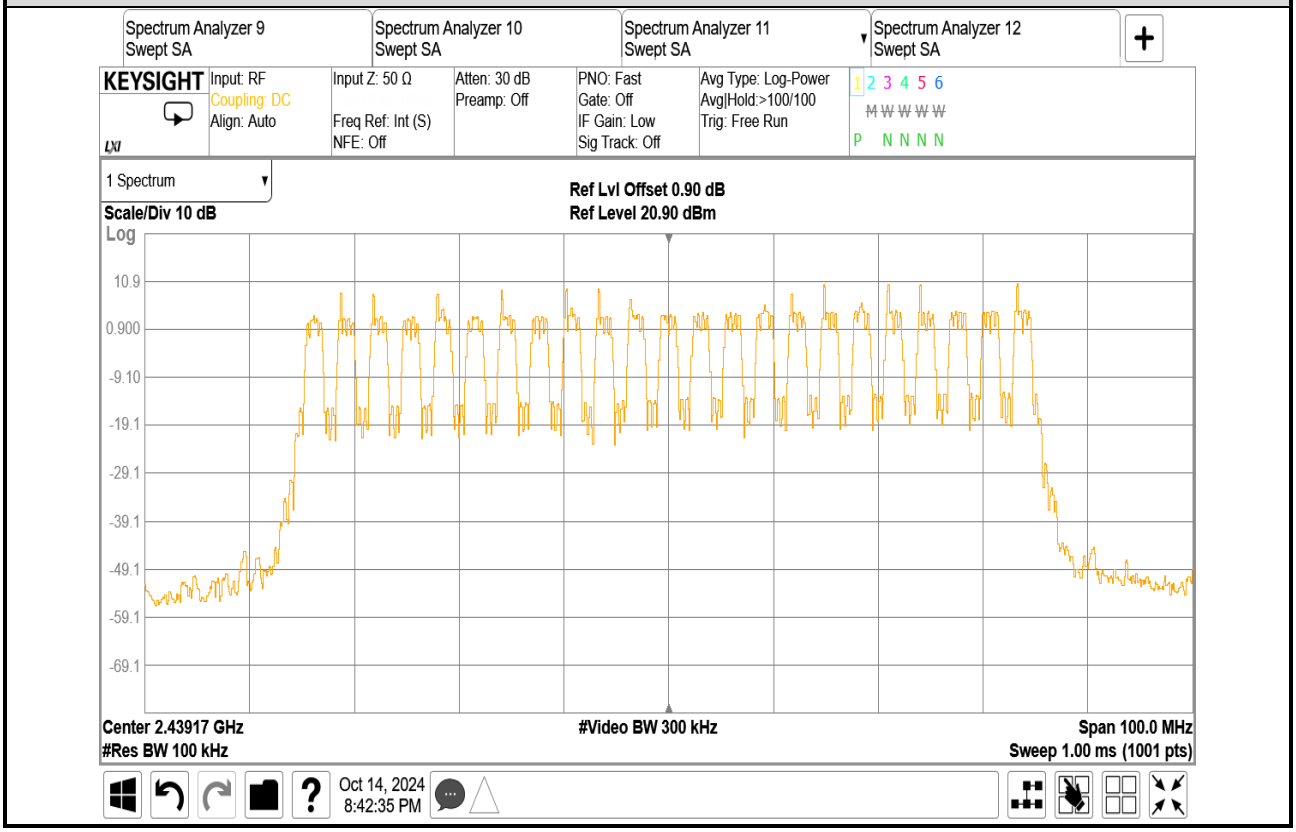
Low channel



High channel



Hopping Mode



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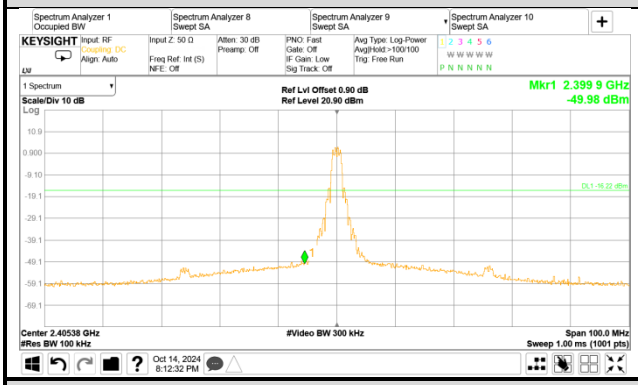
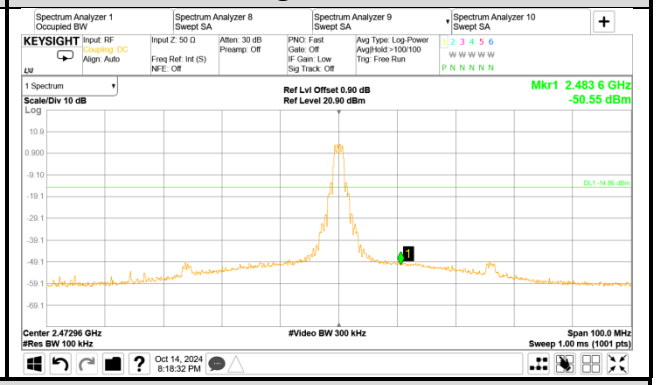
FASSTest

ANT B

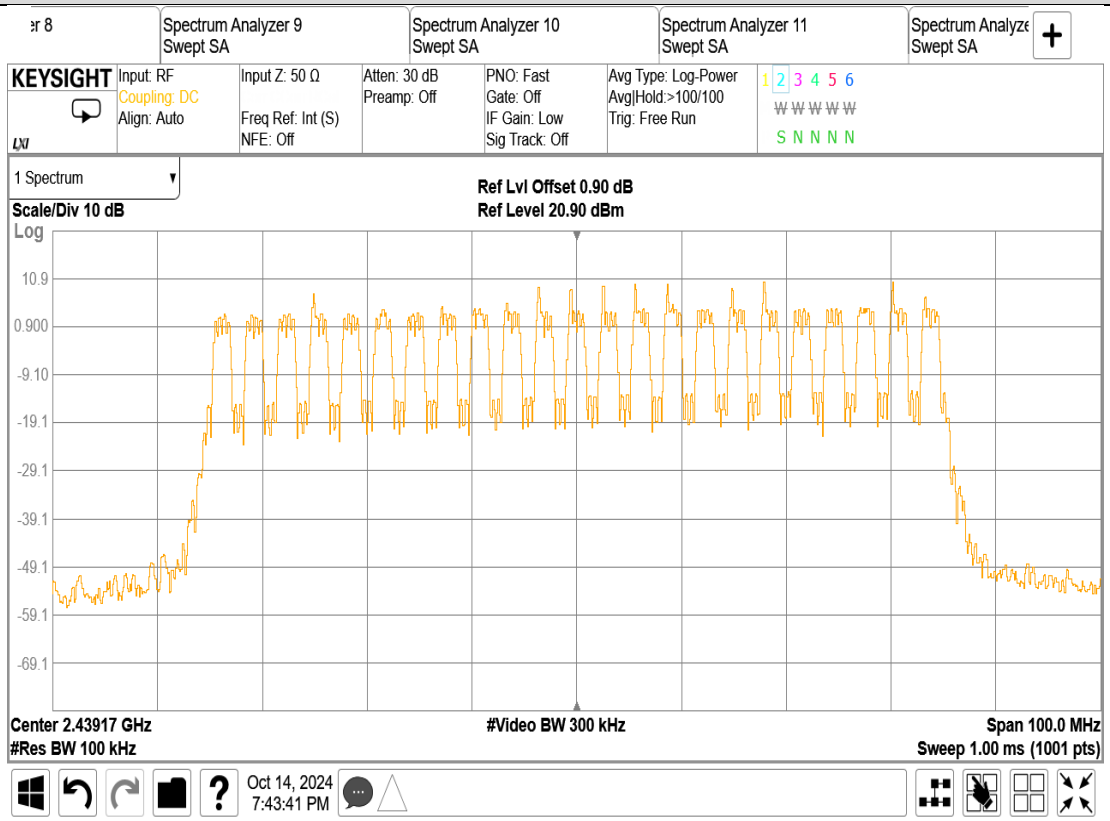
Low channel



High channel



Hopping Mode



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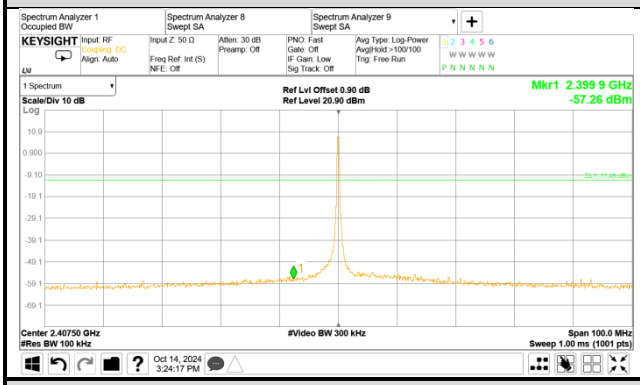
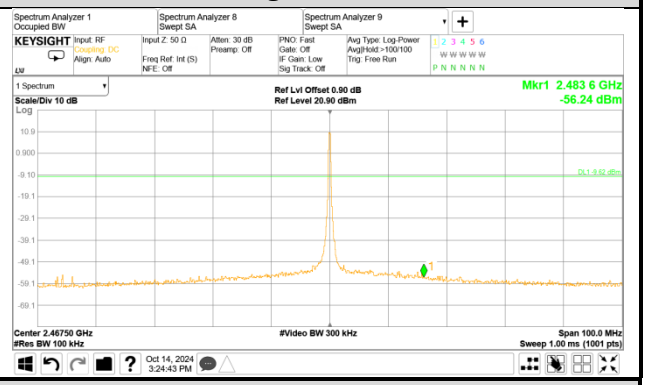
T-FHSS

ANT A

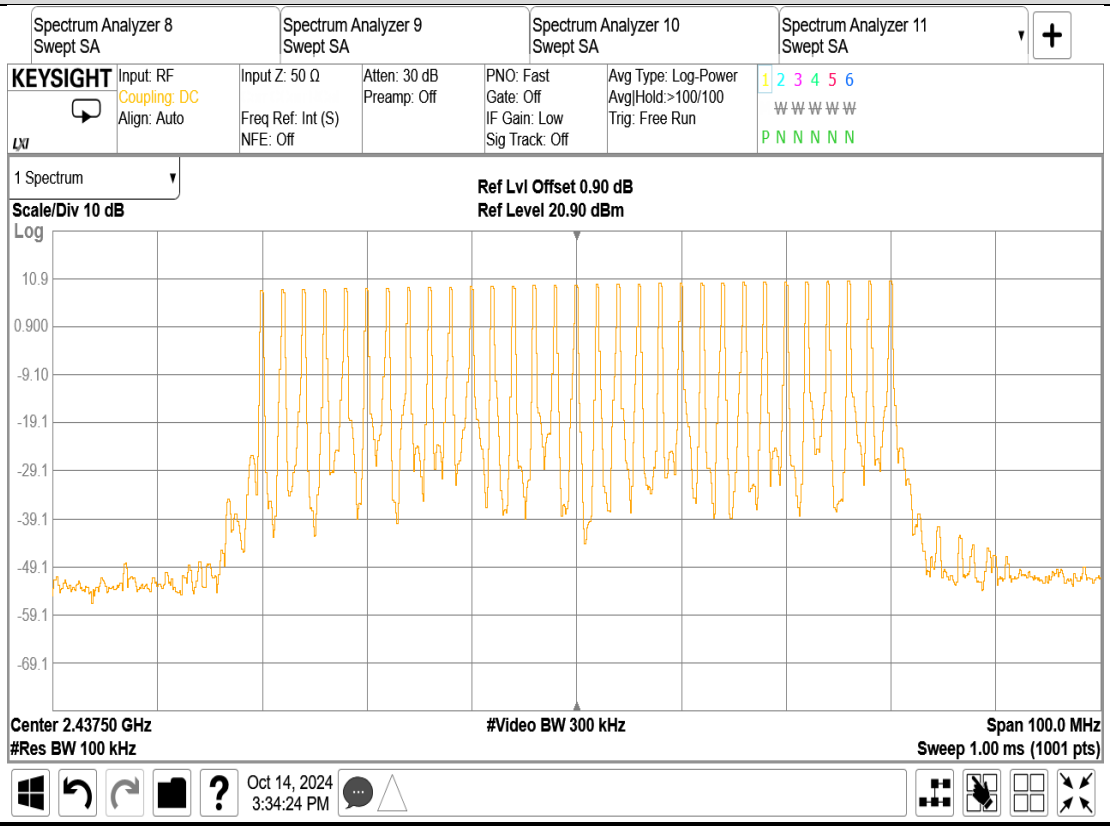
Low channel



High channel



Hopping Mode



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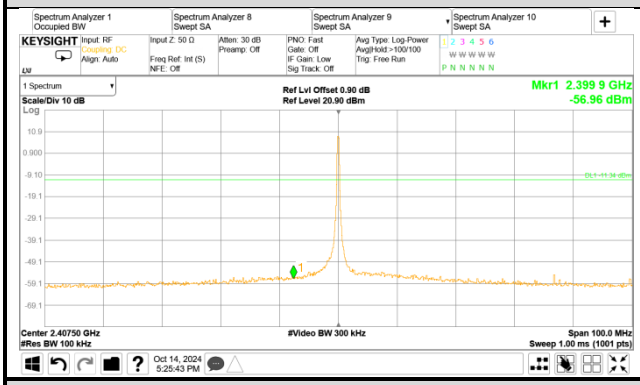
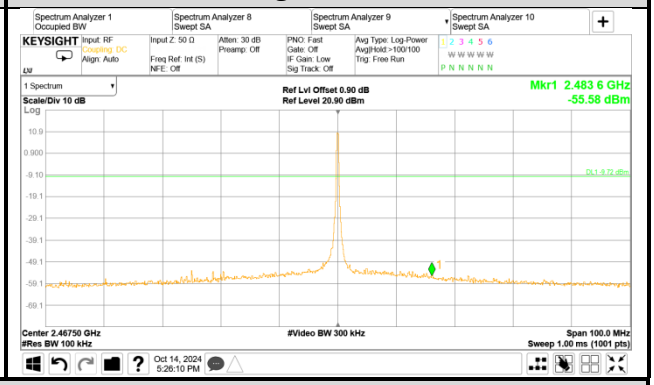
T-FHSS

ANT B

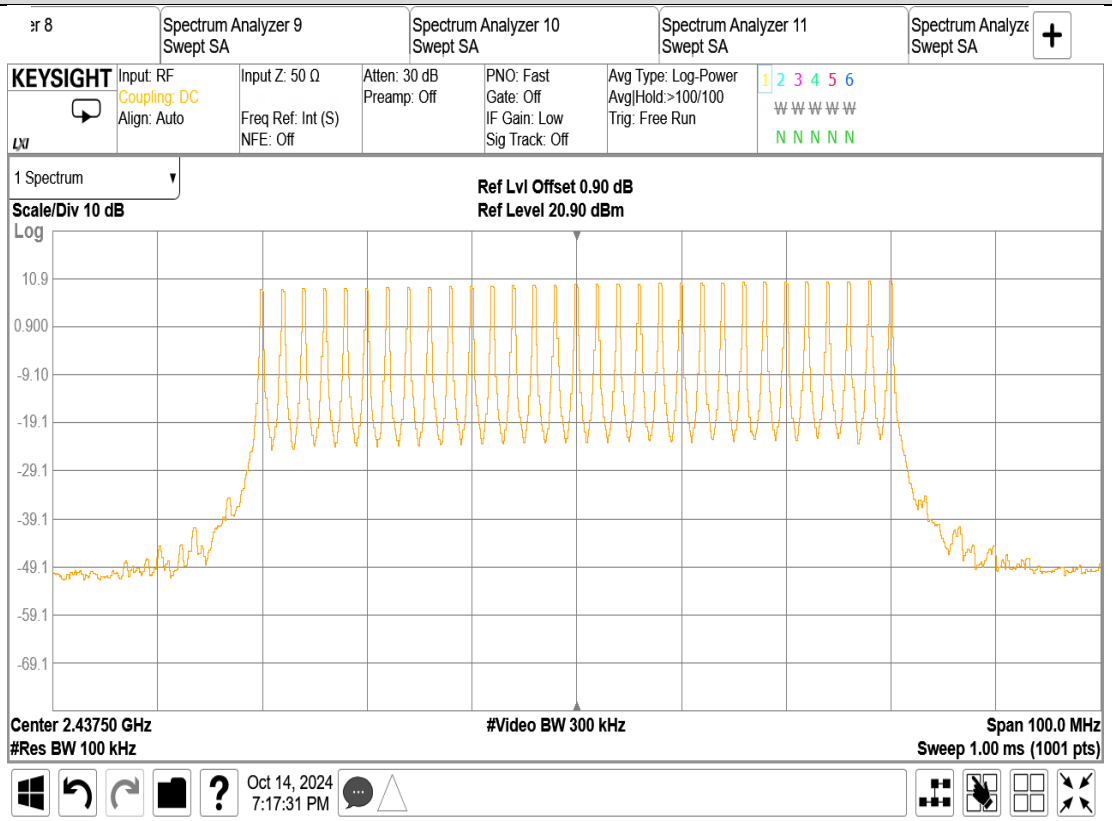
Low channel



High channel



Hopping Mode



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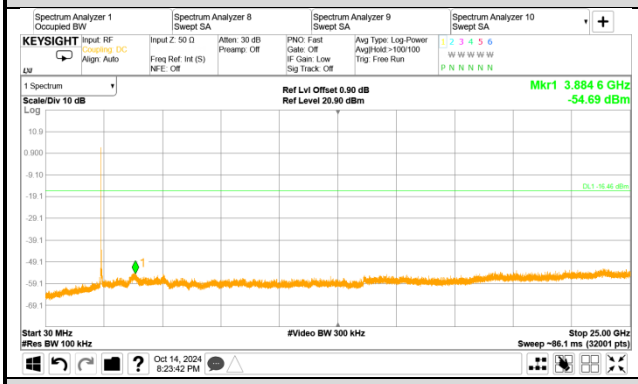
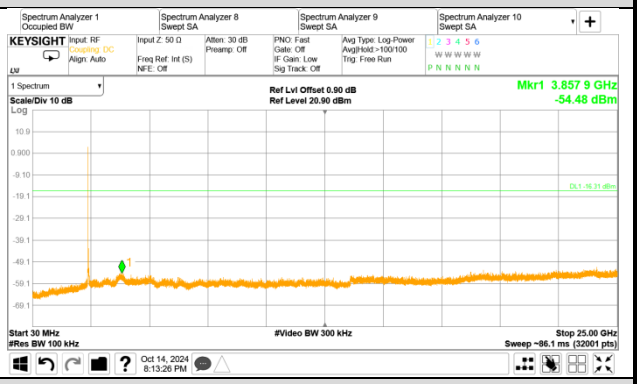
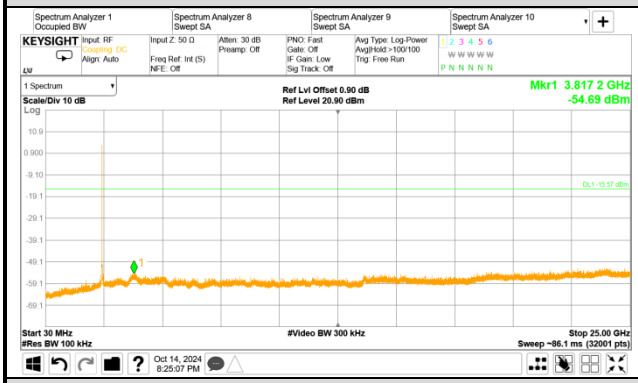
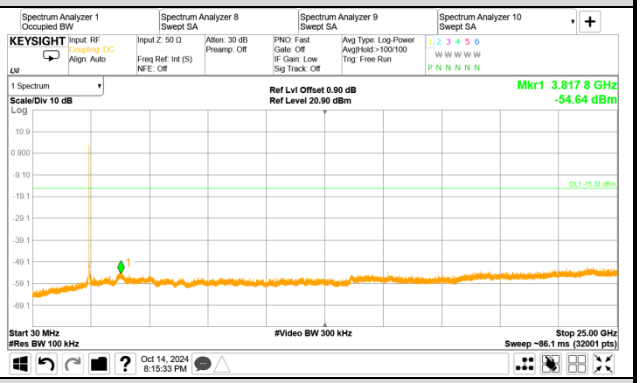
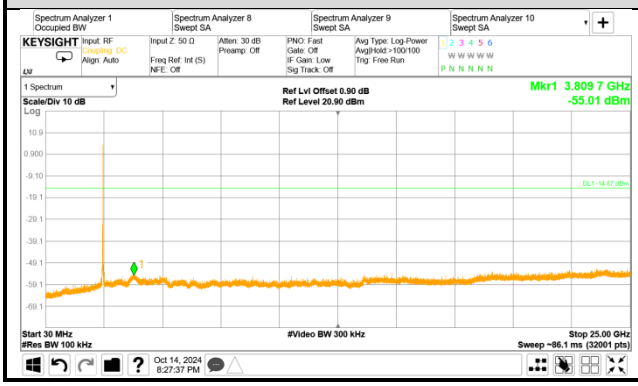
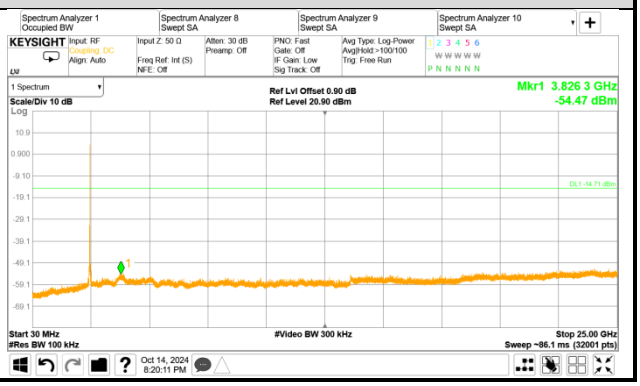
A.7.2 Spurious Emission

FASSTest	
ANT A	ANT B
2405.376 MHz	2405.376 MHz
	
2439.168 MHz	2439.168 MHz
	
2472.960 MHz	2472.960 MHz
	

Note: All results have been included cable loss.

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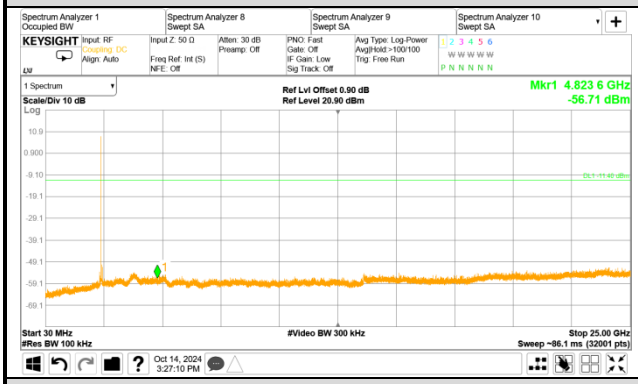
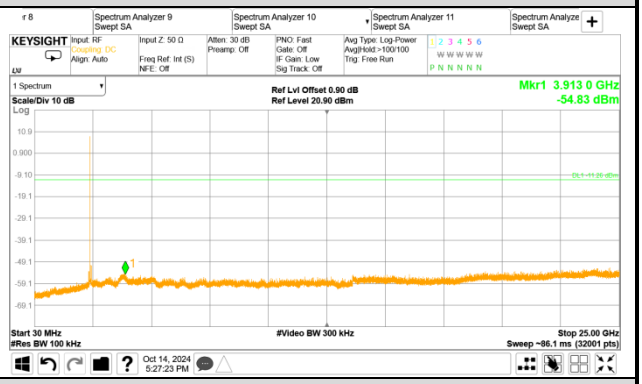
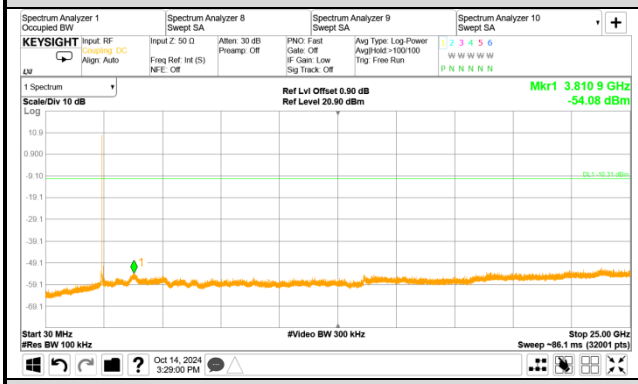
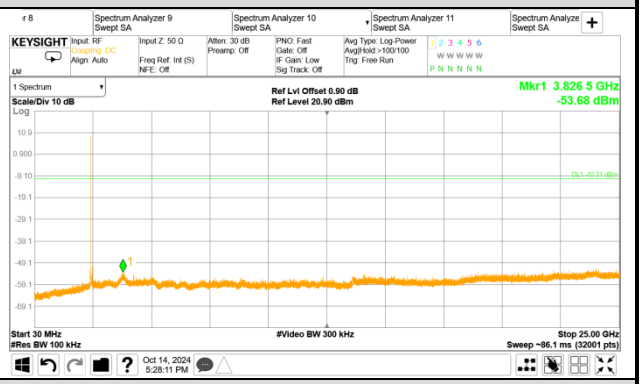
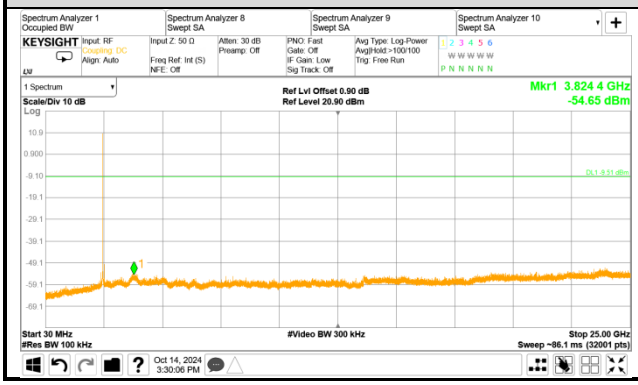
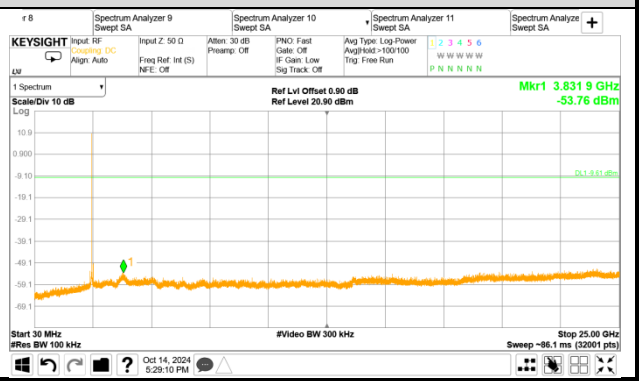
T-FHSS	
ANT A	ANT B
2407.500 MHz	2407.500 MHz
	
2437.500 MHz	2437.500 MHz
	
2467.500 MHz	2467.500 MHz
	

Note: All results have been included cable loss.

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A.8 DTS/Occupied Bandwidth

Test Date	2024/10/14	Temp./Hum.	24°C/54%
Cable Loss	0.90 dB	Tested By	Brian Hsieh
Test Voltage	DC 6V (Via Battery)		

A.8.1 DTS/Occupied Bandwidth Result

Mode	Centre Frequency (MHz)	DTS (6dB) Bandwidth (MHz)	Occupied (99%) Bandwidth (MHz)	Limit
FASSTest (ANT A)	2405.376	1.518	1.9486	>500kHz
	2439.168	1.526	2.3845	
	2472.960	1.532	2.4558	
FASSTest (ANT B)	2405.376	1.515	2.0721	>500kHz
	2439.168	1.522	2.3948	
	2472.960	1.533	2.4643	

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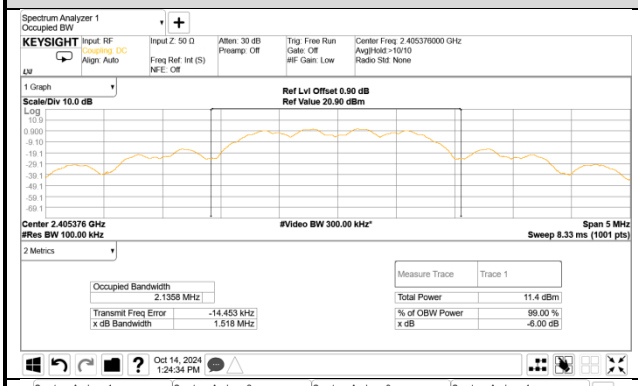
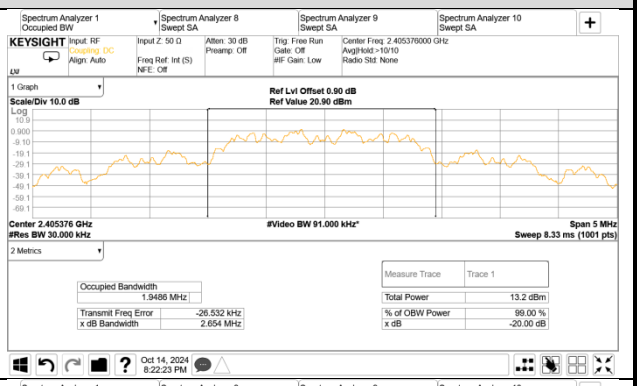
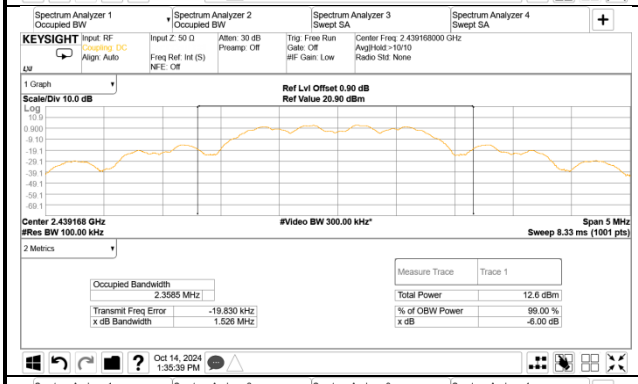
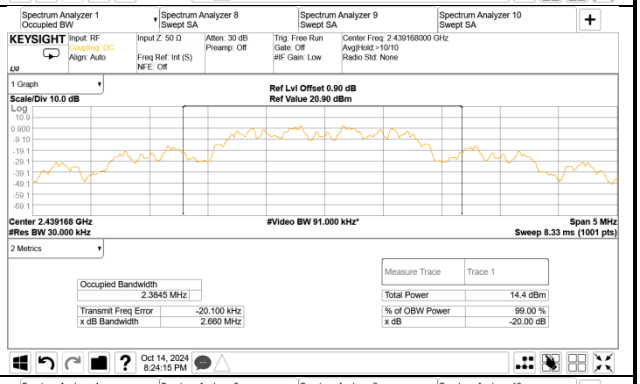
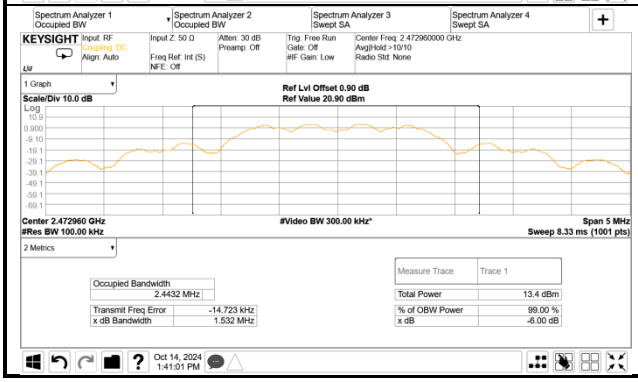
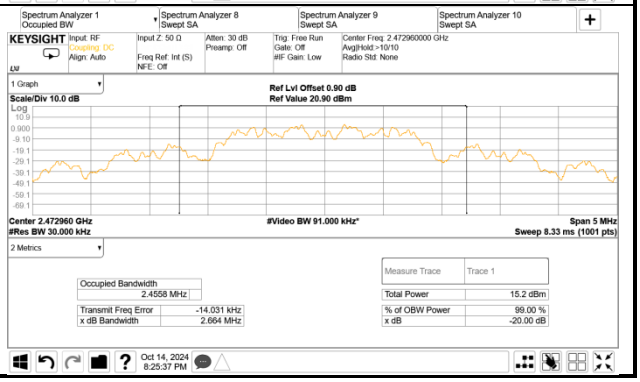
A.8.2 Measurement Plots

FASSTest	
ANT A	
DTS (6dB) Bandwidth	Occupied (99%) Bandwidth
	
	
	

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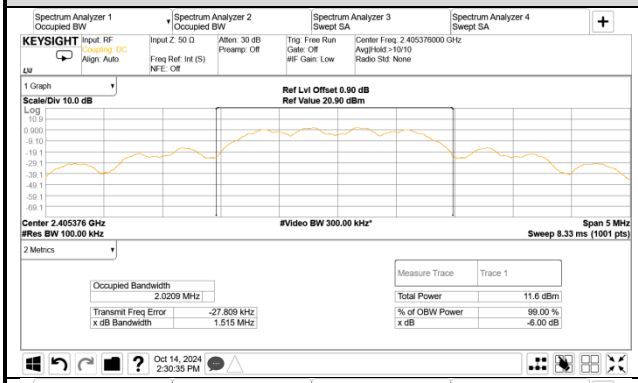
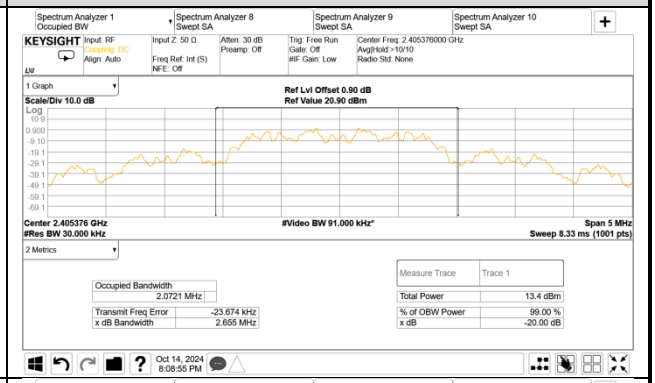
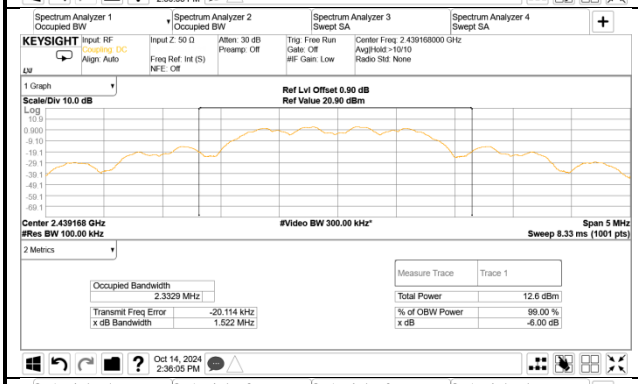
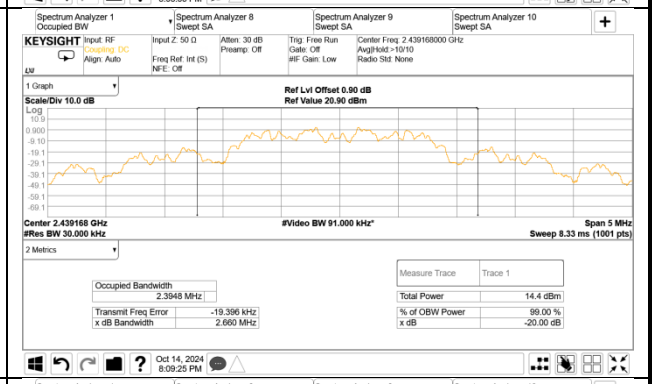
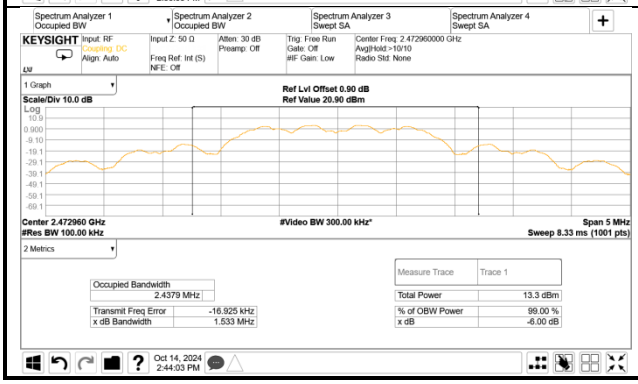
FASSTest	
ANT B	
DTS (6dB) Bandwidth	Occupied (99%) Bandwidth

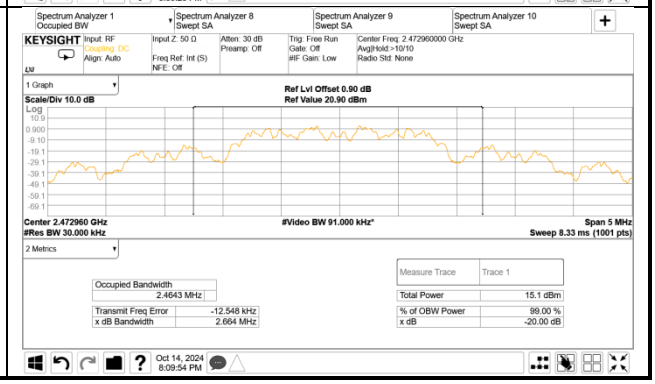












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A.9 POWER SPECTRAL DENSITY

Test Date	2024/10/14	Temp./Hum.	24°C/54%
Cable Loss	0.90 dB	Tested By	Brian Hsieh
Test Voltage	DC 6V (Via Battery)		

A.9.1 Power Spectral Density Result

Mode	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
T-FHSS (ANT A)	2405.376	3.46	<8 dBm/3kHz
	2439.168	4.52	
	2472.960	5.15	
T-FHSS (ANT B)	2405.376	3.65	<8 dBm/3kHz
	2439.168	4.55	
	2472.960	5.12	

Note: According to FCC announcement KDB558074 D01V04, and the resolution bandwidth is measured at 100kHz, the test results are stricter than 3kHz.

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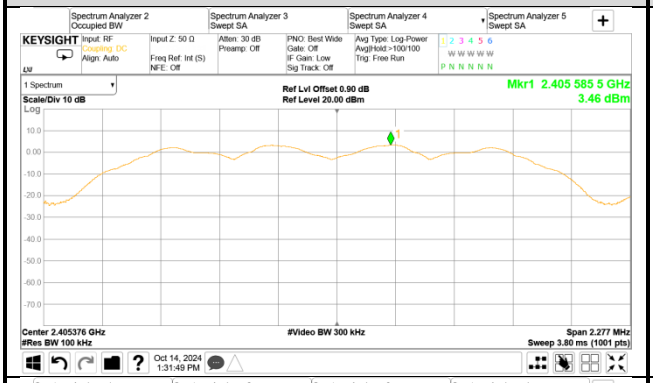
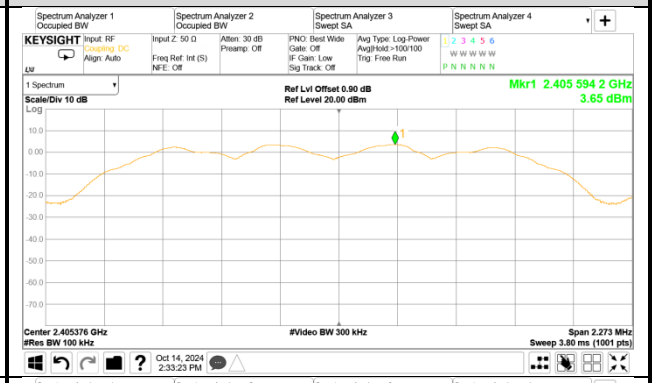
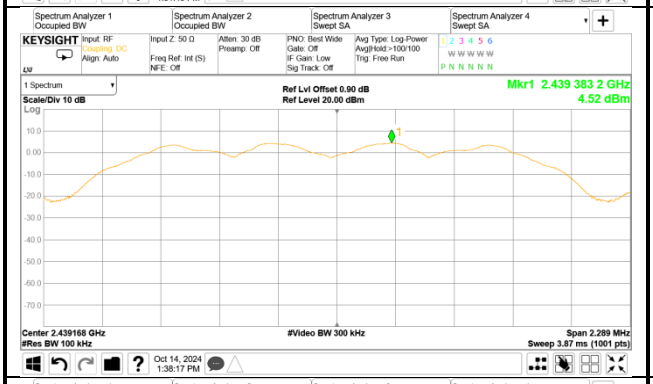
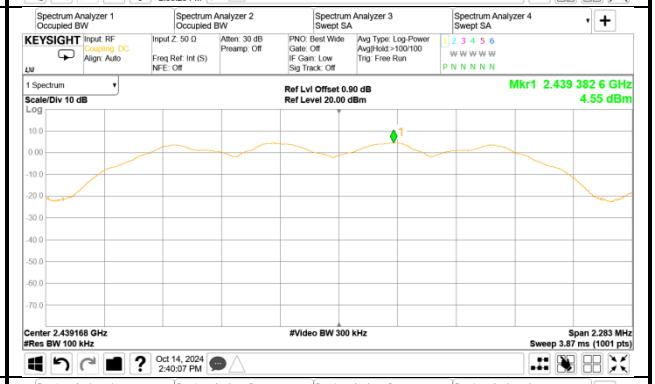
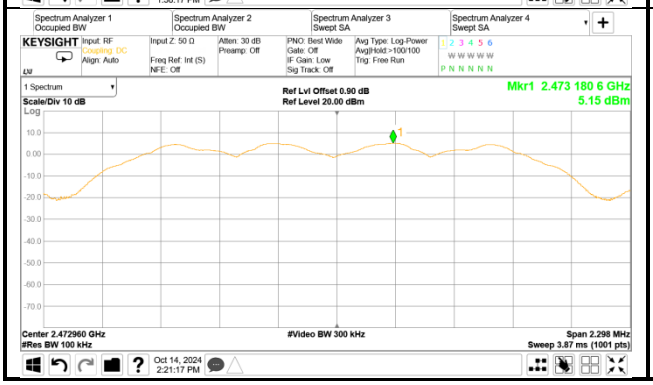
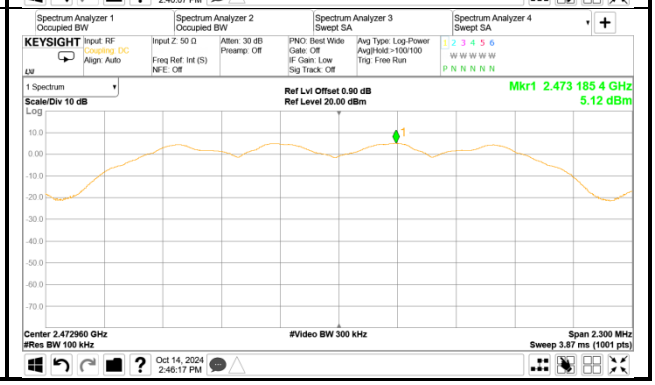
A.9.2 Measurement Plots

FASSTest	
ANT A	ANT B
	
	
	

Note: All results have been included cable loss.