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A.3 20DB/OCCUPIED BANDWIDTH

Test Date	2021/11/08 ~ 09	Temp./Hum.	23℃/62 ~ 67%
Cable Loss	0.5dB	Tested By	Sam Chang
Test Voltage	DC 7.4V (Via Battery)		

A.3.1 20dB Bandwidth Result

Mode	Centre Frequency (MHz)	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)	Carrier Frequency Separation Limit 2/3 (20dB Bandwidth)
S-FHSS	2403.25	0.2610	0.25694	0.174
	2425.00	0.2615	0.25846	0.174
	2447.50	0.2605	0.25898	0.174

Remark: The maximum two-thirds of the 20dB bandwidth shall be at maximum 0.174MHz.

Mode	Centre Frequency (MHz)	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)	Carrier Frequency Separation Limit 2/3 (20dB Bandwidth)
T-FHSS	2407.50	0.8707	0.86014	0.580
	2435.50	0.8764	0.85578	0.584
	2467.50	0.8764	0.88385	0.584

Remark: The maximum two-thirds of the 20dB bandwidth shall be at maximum 0.584MHz.

Mode	Centre Frequency (MHz)	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)	Carrier Frequency Separation Limit 2/3 (20dB Bandwidth)
F-4G	2406.00	0.8900	0.92754	0.593
	2442.00	0.8795	0.92187	0.586
	2478.00	0.8434	0.92945	0.562

Remark: The maximum two-thirds of the 20dB bandwidth shall be at maximum 0.593MHz.

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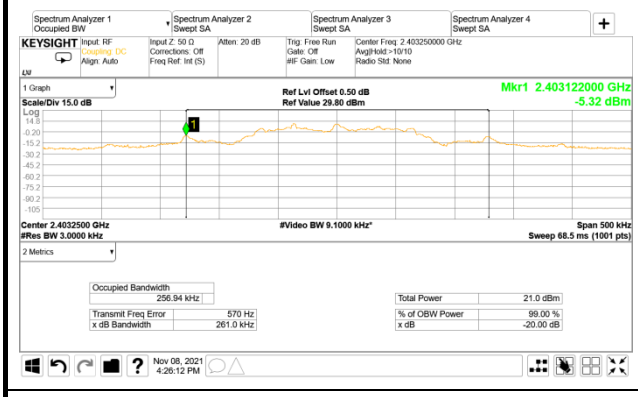
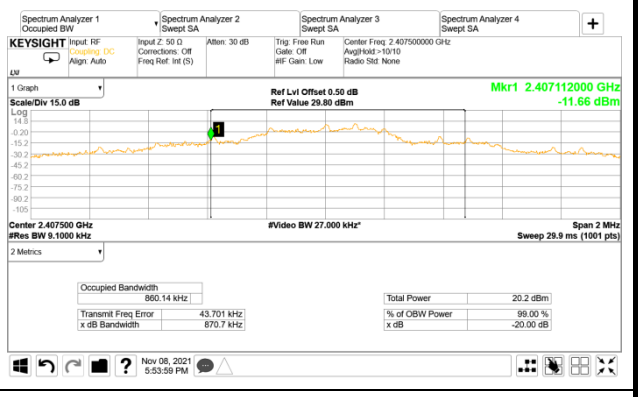
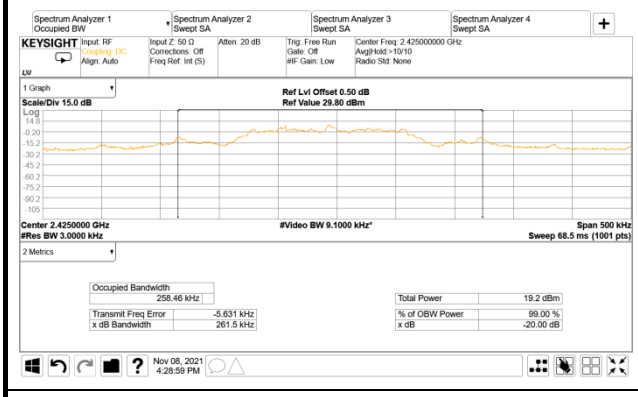
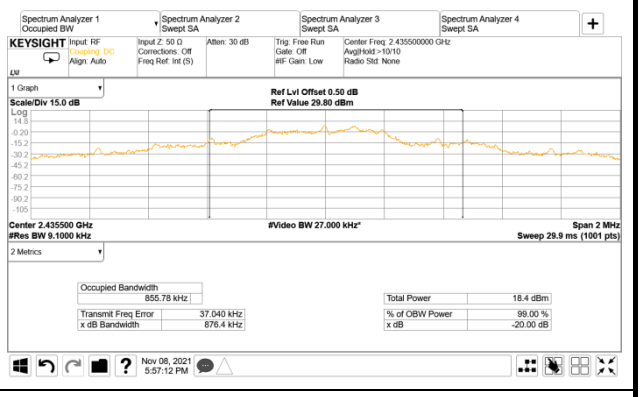
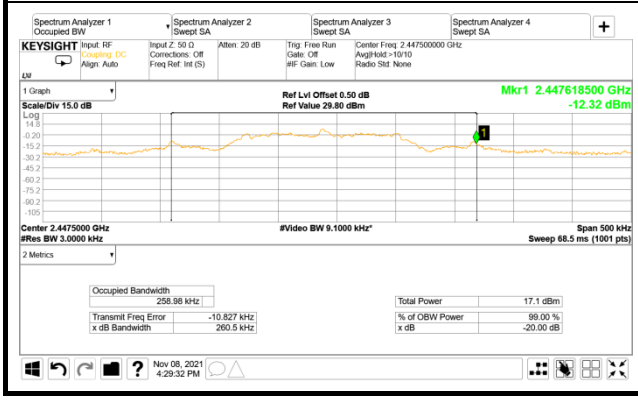
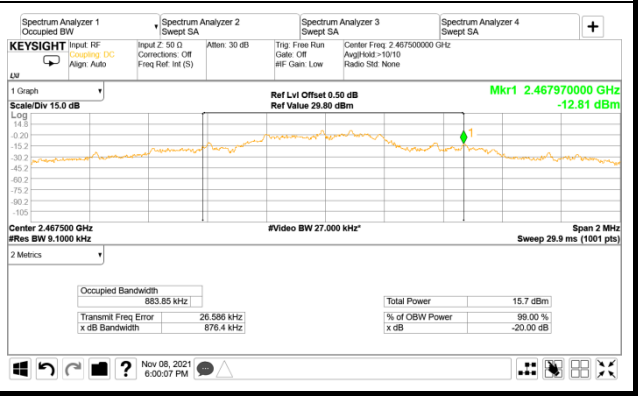
A.3.2 Measurement Plots

S-FHSS	T-FHSS
	
	
	

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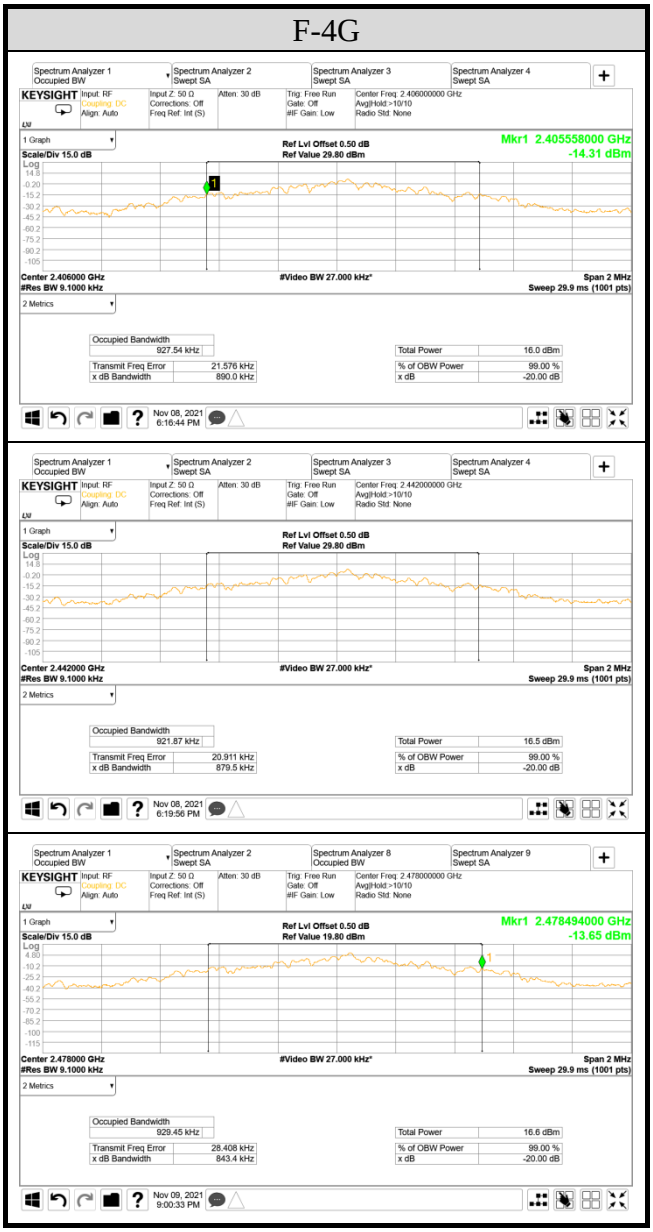
F-4G



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A.4 CARRIER FREQUENCY SEPARATION

Test Date	2021/11/08	Temp./Hum.	23℃/67%
Cable Loss	0.5dB	Tested By	Sam Chang
Test Voltage	DC 7.4V (Via Battery)		

A.4.1 Carrier Frequency Separation Result

Mode	Centre Frequency (MHz)		Carrier Frequency Separation (MHz)	Limit (MHz) 2/3 (20dB Bandwidth)
S-FHSS	2403.25		0.746	＞0.174
	2425.00	adjacent channel of right carrier frequency	0.750	
	2425.00	adjacent channel of left carrier frequency	0.750	
	2447.50		0.750	

Mode	Centre Frequency (MHz)		Carrier Frequency Separation (MHz)	Limit (MHz) 2/3 (20dB Bandwidth)
T-FHSS	2407.50		2.000	＞0.584
	2435.50	adjacent channel of right carrier frequency	1.995	
	2435.50	adjacent channel of left carrier frequency	2.005	
	2467.50		1.995	

Mode	Centre Frequency (MHz)		Carrier Frequency Separation (MHz)	Limit (MHz) 2/3 (20dB Bandwidth)
F-4G	2406.00		1.998	＞0.593
	2442.00	adjacent channel of right carrier frequency	2.004	
	2442.00	adjacent channel of left carrier frequency	1.998	
	2478.00		1.998	

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A.4.2 Measurement Plots

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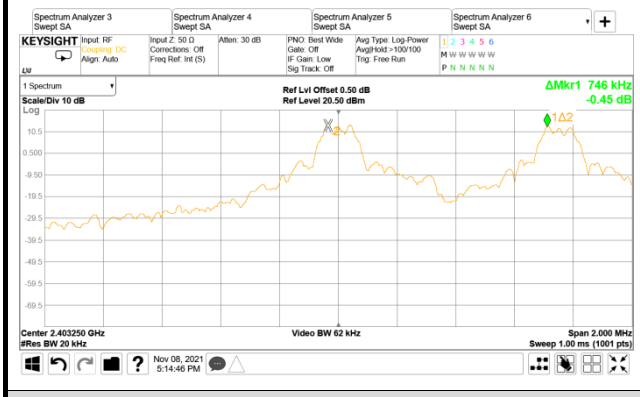
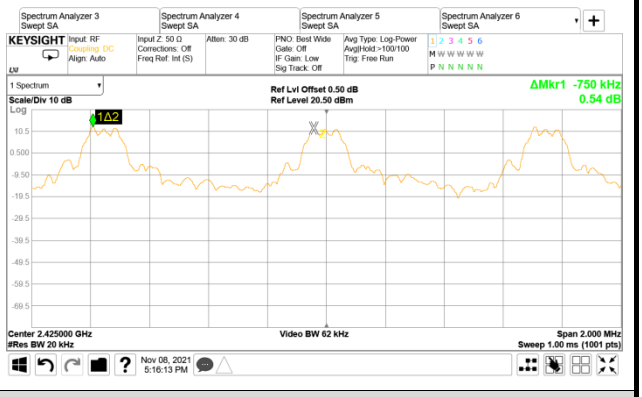
adjacent channel of left carrier frequency</td></tr>
<tr><td> 
</td><td> 
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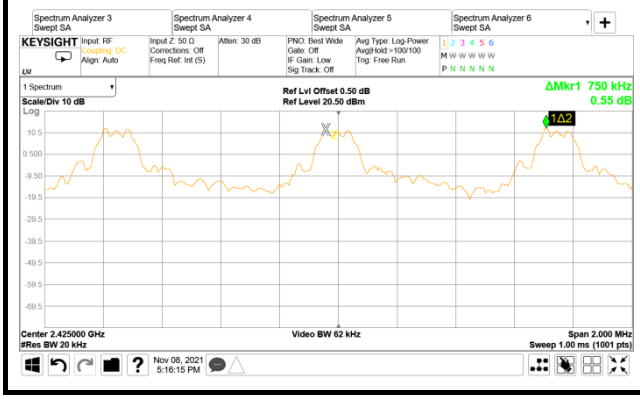
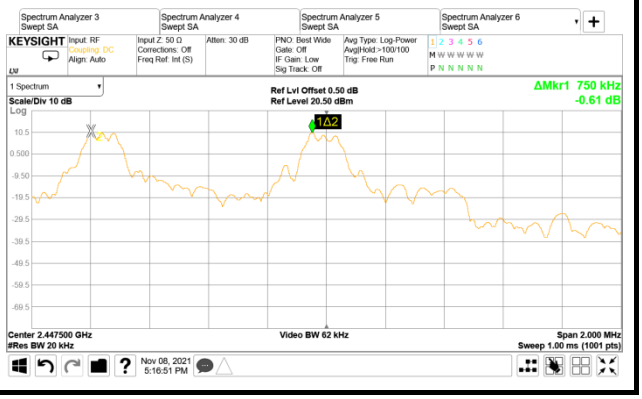
adjacent channel of right carrier frequency</td><td>2447.50MHz</td></tr>
<tr><td> 
</td><td> 
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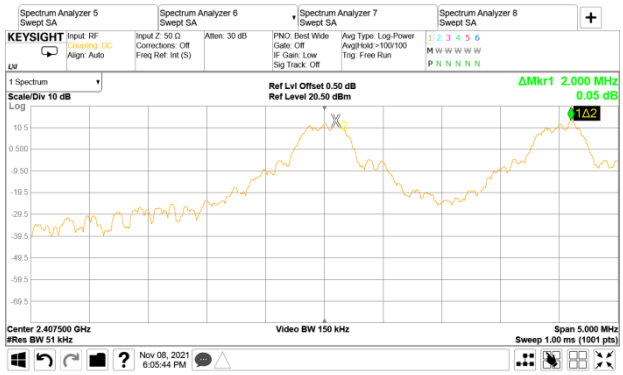
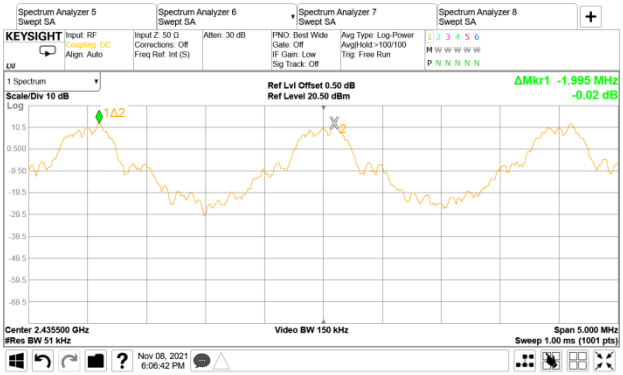
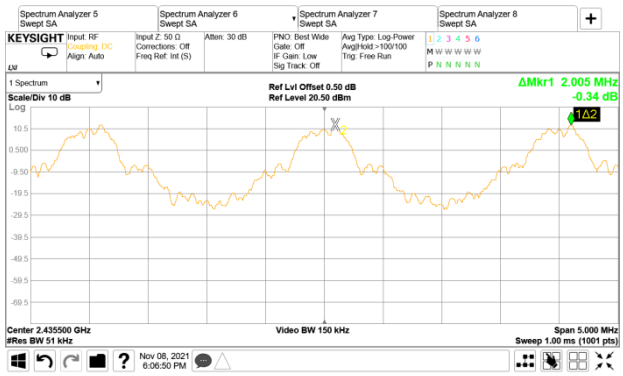
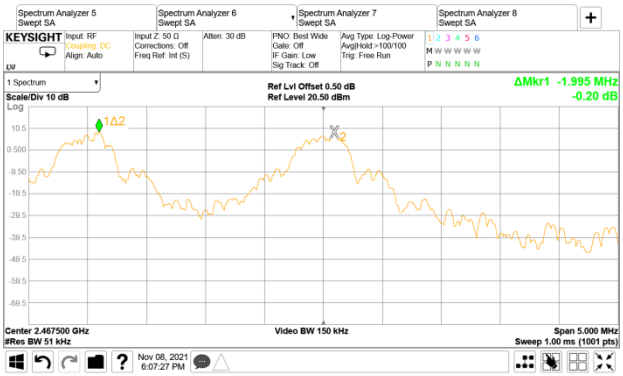
T-FHSS	
2407.50MHz	2435.50MHz adjacent channel of left carrier frequency
	
2435.50MHz adjacent channel of right carrier frequency	2467.50MHz
	

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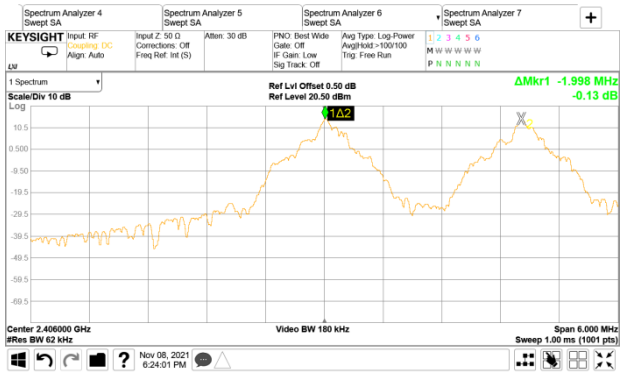
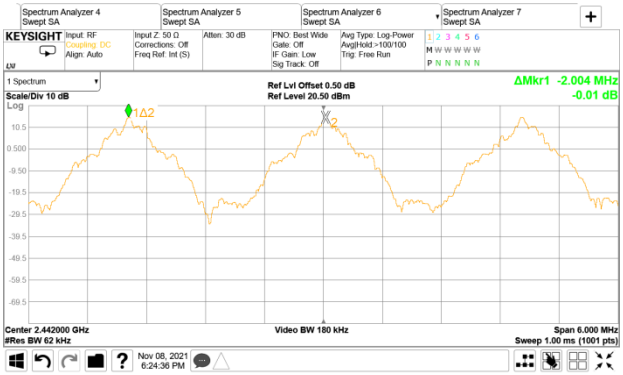
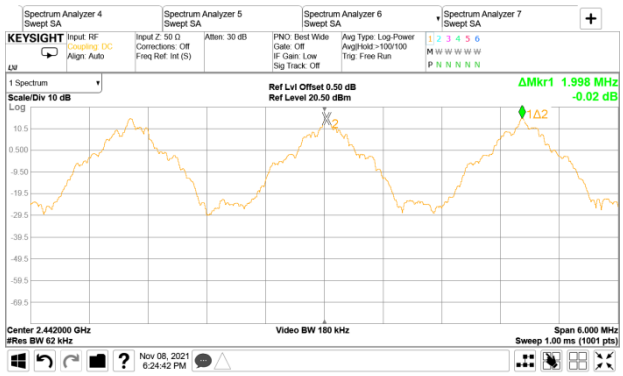
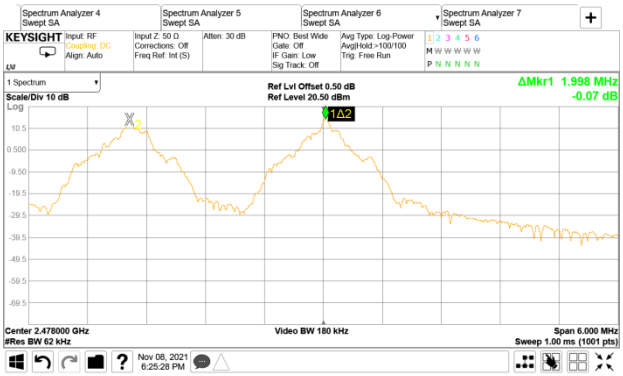
F-4G	
2406.00MHz	2442.00MHz adjacent channel of left carrier frequency
	
2442.00MHz adjacent channel of right carrier frequency	2478.00MHz
	

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A.5 TIME OF OCCUPANCY

Test Date	2021/11/08	Temp./Hum.	23℃/67%
Cable Loss	0.5dB	Tested By	Sam Chang
Test Voltage	DC 7.4V (Via Battery)		

A.5.1 Time of Occupancy

Mode	Centre Frequency (MHz)	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
S-FHSS	2403.25	5	3.030	363.60	<400
	2425.00	5	3.045	365.40	<400
	2447.50	5	3.045	365.40	<400

Observation Period:
60 channels* **0.4** seconds= **24.0** seconds
Centre Frequency: **2403.25**
For each second of **5** transmission appearance,the longest time of occupancy is
5 channels **24.0** * **3.030** ms= **363.60** ms (<400ms)
Centre Frequency: **2425.00**
For each second of **5** transmission appearance,the longest time of occupancy is
5 channels **24.0** * **3.045** ms= **365.40** ms (<400ms)
Centre Frequency: **2447.50**
For each second of **5** transmission appearance,the longest time of occupancy is
5 channels **24.0** * **3.045** ms= **365.40** ms (<400ms)

Mode	Centre Frequency (MHz)	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
T-FHSS	2407.50	11	0.420	57.29	<400
	2435.50	11	0.420	57.29	<400
	2467.50	11	0.420	57.29	<400

Observation Period:
31 channels* **0.4** seconds= **12.4** seconds
Centre Frequency: **2407.50**
For each second of **11** transmission appearance,the longest time of occupancy is
11 channels **12.4** * **0.420** ms= **57.29** ms (<400ms)
Centre Frequency: **2435.50**
For each second of **11** transmission appearance,the longest time of occupancy is
11 channels **12.4** * **0.420** ms= **57.29** ms (<400ms)
Centre Frequency: **2467.50**
For each second of **11** transmission appearance,the longest time of occupancy is
11 channels **12.4** * **0.420** ms= **57.29** 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 SR	2407.50	27	0.420	140.62	<400
	2435.50	27	0.420	140.62	<400
	2467.50	27	0.420	140.62	<400

Observation Period:
31 channels* **0.4** seconds= **12.4** seconds
Centre Frequency: **2407.50**
For each second of **27** transmission appearance,the longest time of occupancy is
27 channels **12.4** * **0.420** ms= **140.62** ms (<400ms)
Centre Frequency: **2435.50**
For each second of **27** transmission appearance,the longest time of occupancy is
27 channels **12.4** * **0.420** ms= **140.62** ms (<400ms)
Centre Frequency: **2467.50**
For each second of **27** transmission appearance,the longest time of occupancy is
27 channels **12.4** * **0.420** ms= **140.62** ms (<400ms)

Mode	Centre Frequency (MHz)	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
F-4G	2406.00	45	0.171	113.89	<400
	2442.00	45	0.171	113.89	<400
	2478.00	45	0.171	113.89	<400

Observation Period:
37 channels* **0.4** seconds= **14.8** seconds
Centre Frequency: **2406.00**
For each second of **45** transmission appearance,the longest time of occupancy is
45 channels **14.8** * **0.171** ms= **113.89** ms (<400ms)
Centre Frequency: **2442.00**
For each second of **45** transmission appearance,the longest time of occupancy is
45 channels **14.8** * **0.171** ms= **113.89** ms (<400ms)
Centre Frequency: **2478.00**
For each second of **45** transmission appearance,the longest time of occupancy is
45 channels **14.8** * **0.171** ms= **113.89** ms (<400ms)

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- Measurement Plots

S-FHSS	
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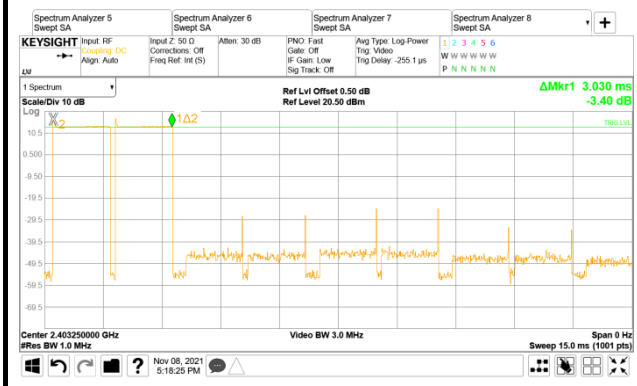	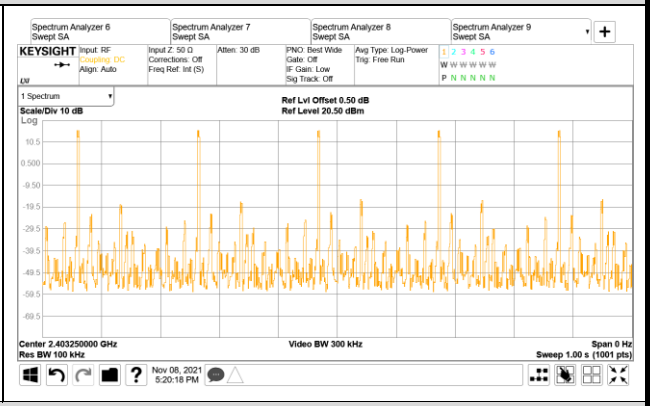
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	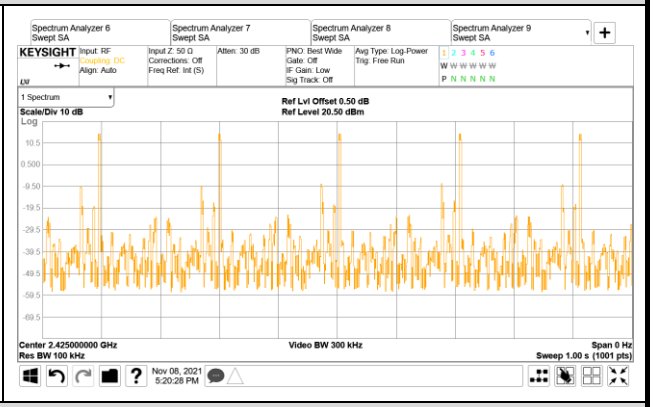
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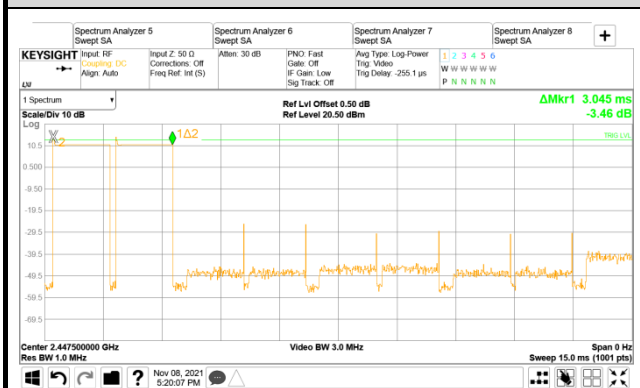	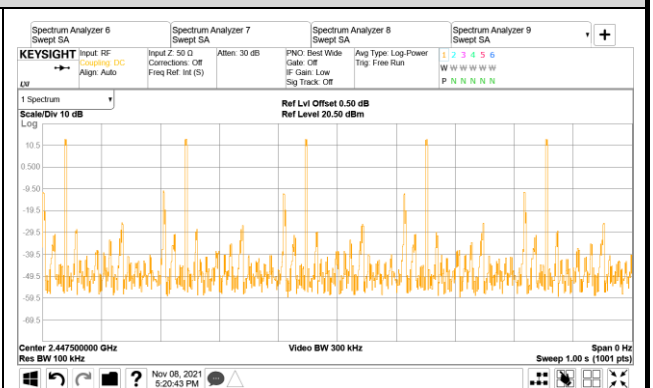

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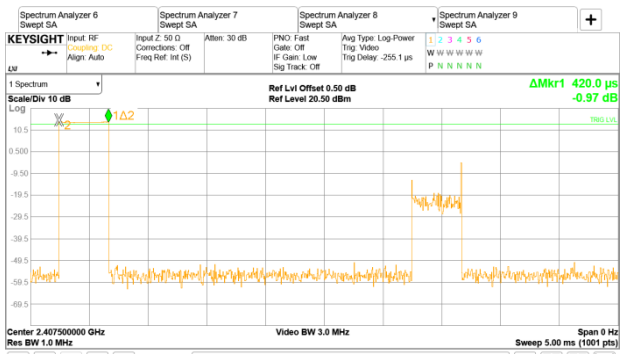
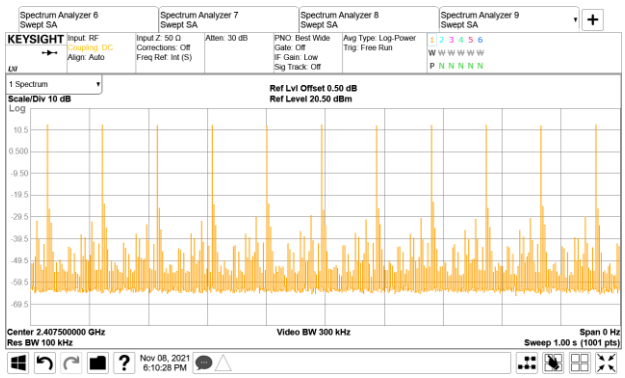
T-FHSS

2407.50MHz





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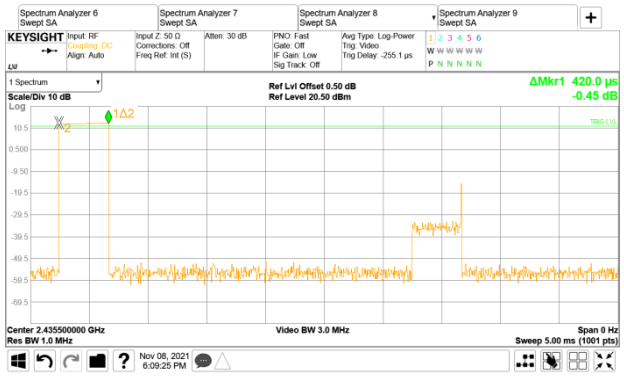
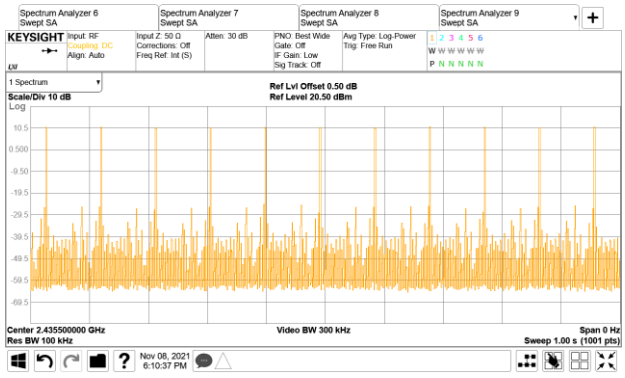
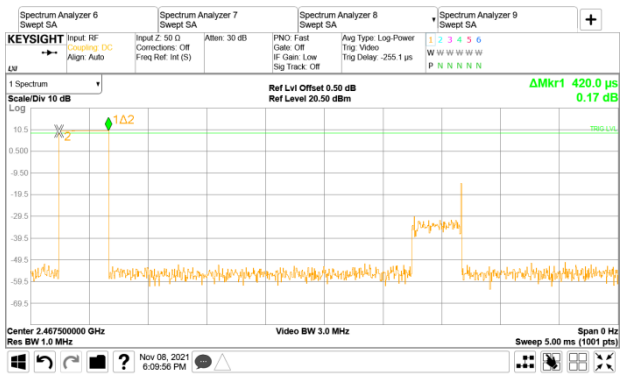
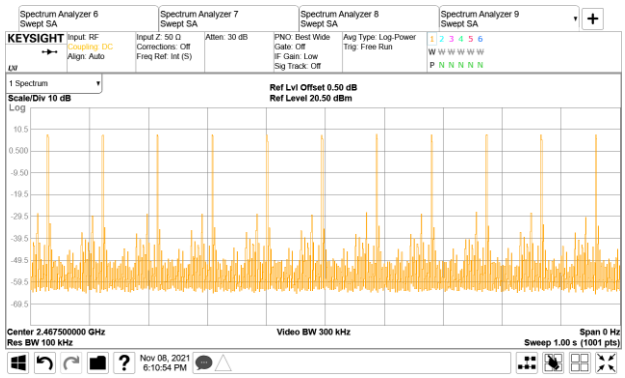




2467.50MHz





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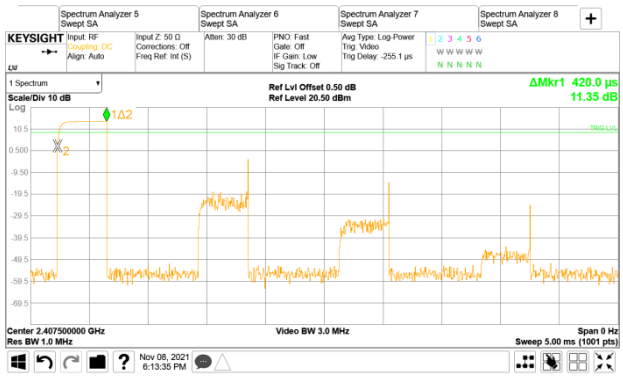
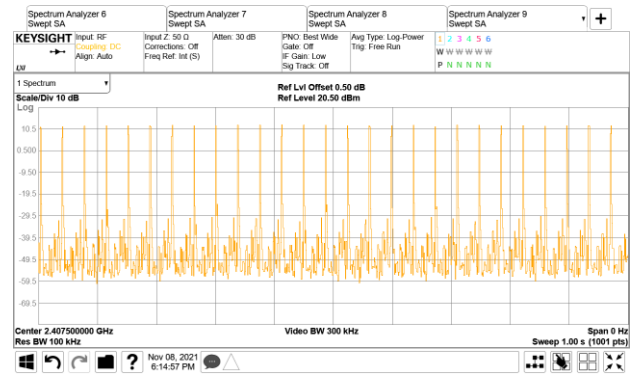
T-FHSS SR	
2407.50MHz	
	
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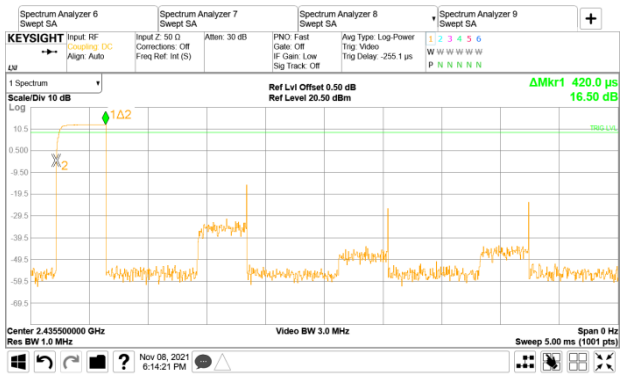	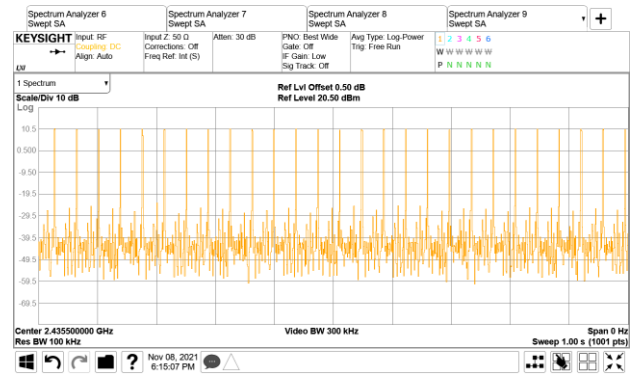
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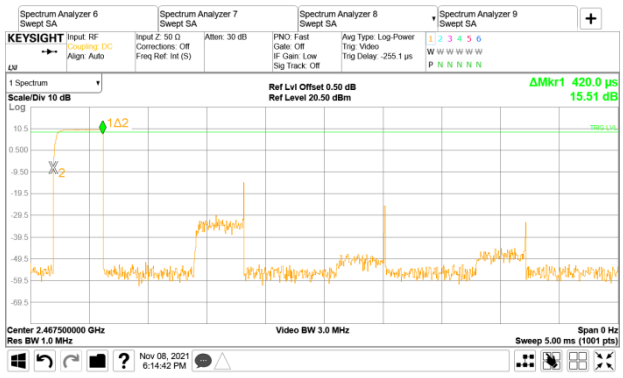	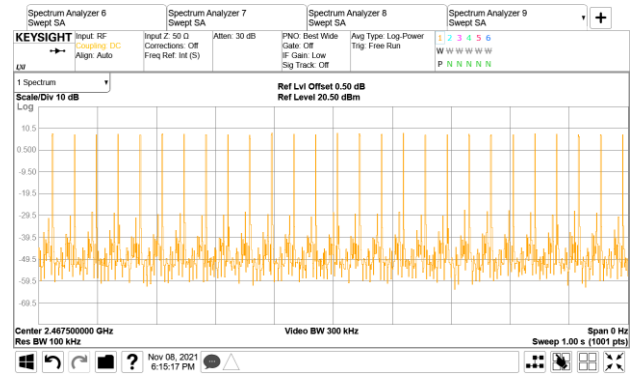

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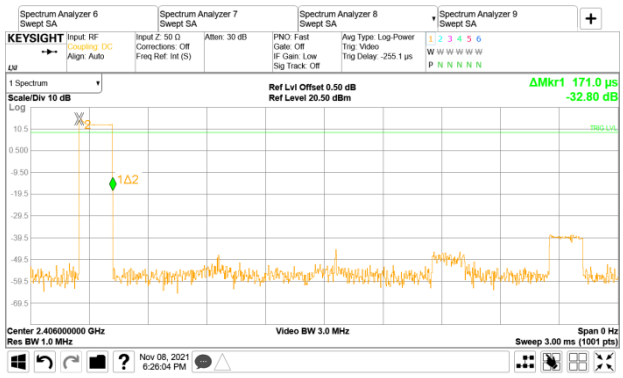
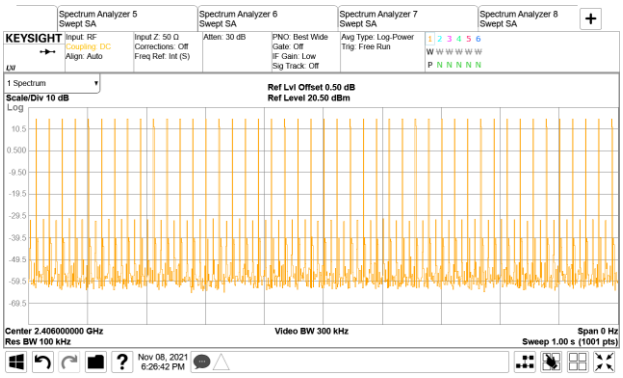
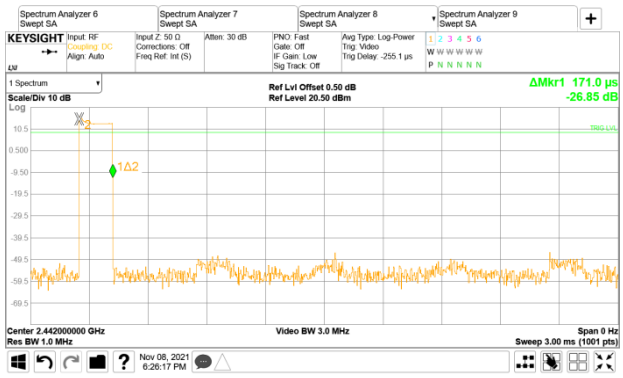
F-4G

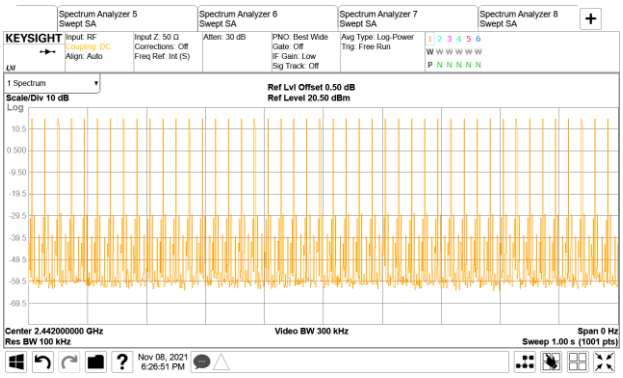
2406.00MHz



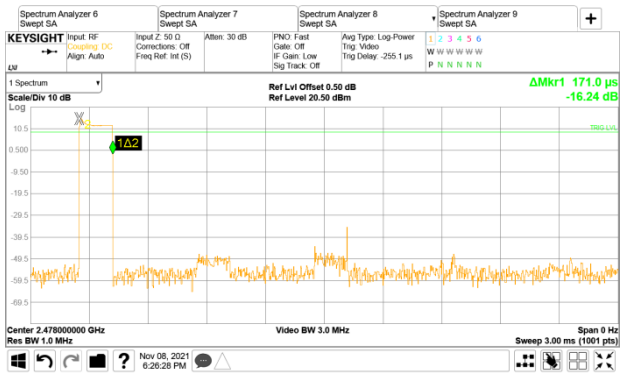


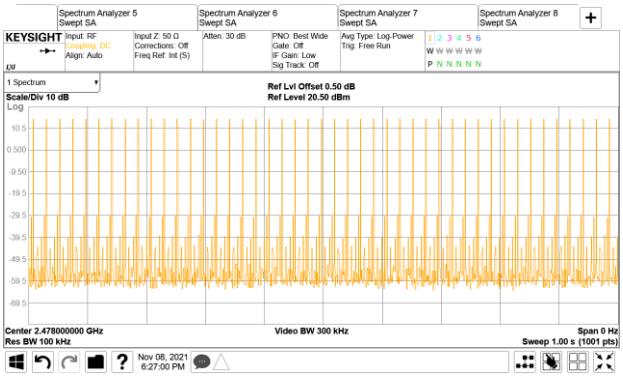
2442.00MHz





2478.00MHz





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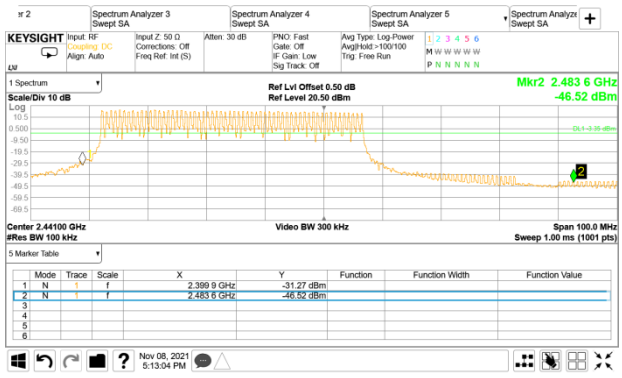
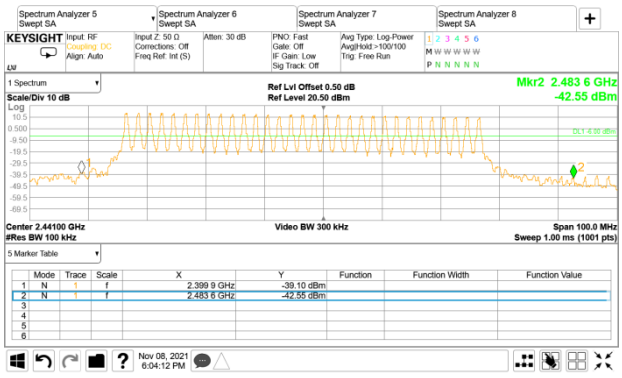
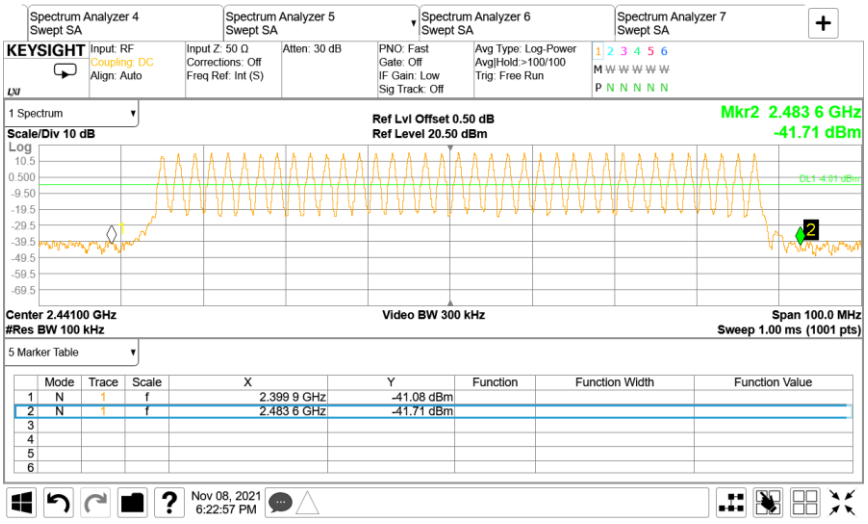
A.6 NUMBER OF HOPPING CHANNELS

Test Date	2021/11/08	Temp./Hum.	23℃/67%
Cable Loss	0.5dB	Tested By	Sam Chang
Test Voltage	DC 7.4V (Via Battery)		

Mode: S-FHSS	Mode: T-FHSS
	
The number hopping channel is 60.	The number hopping channel is 31.

Mode: F-4G

The number hopping channel is 37.