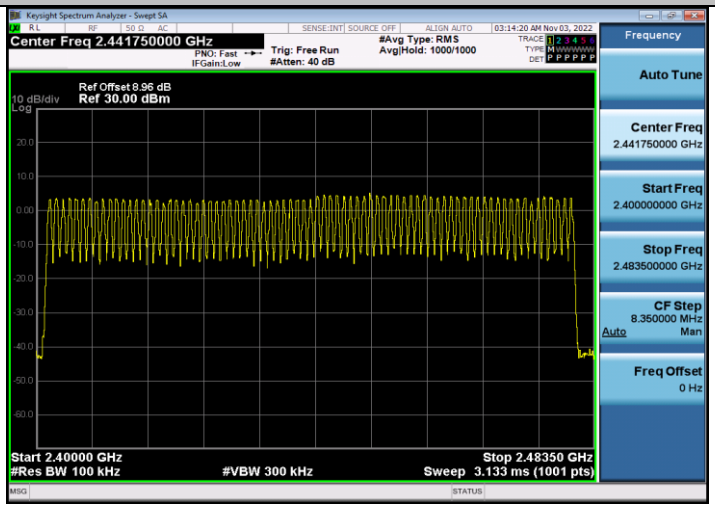
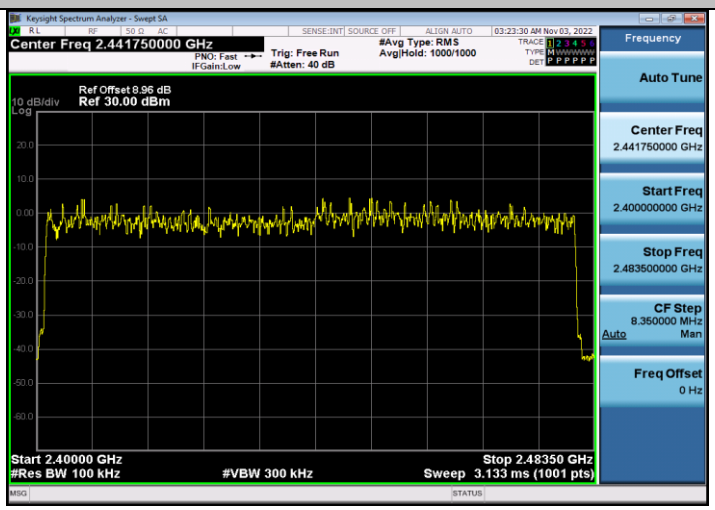
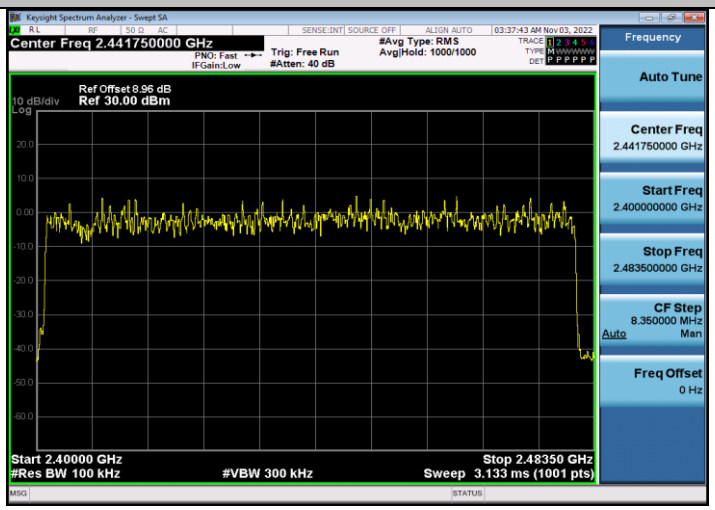
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

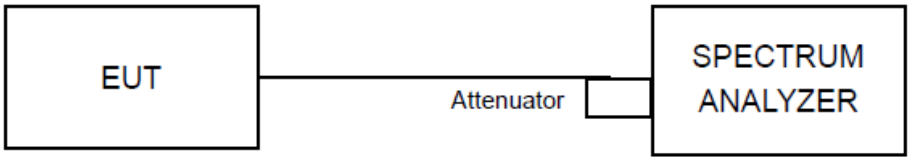


4.6 Dwell Time

4.6.1 Limit

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

4.6.2 Test Setup



4.6.3 Test Procedures

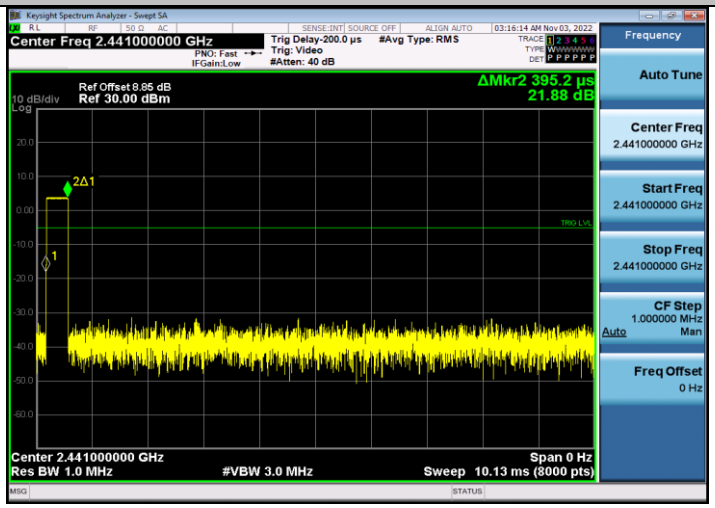
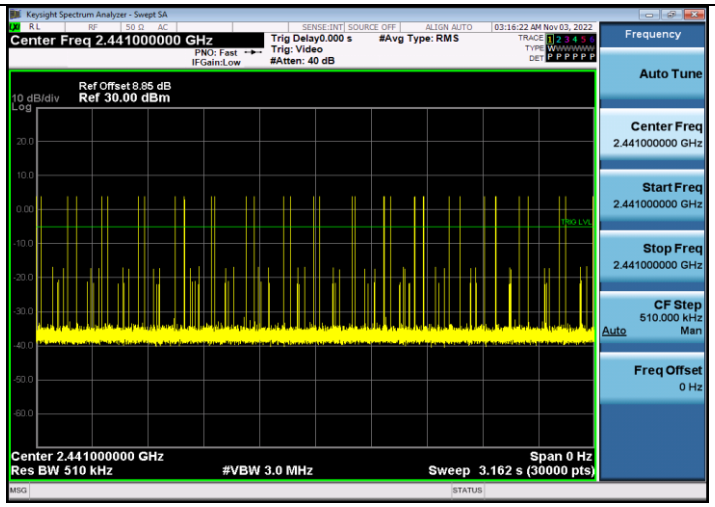
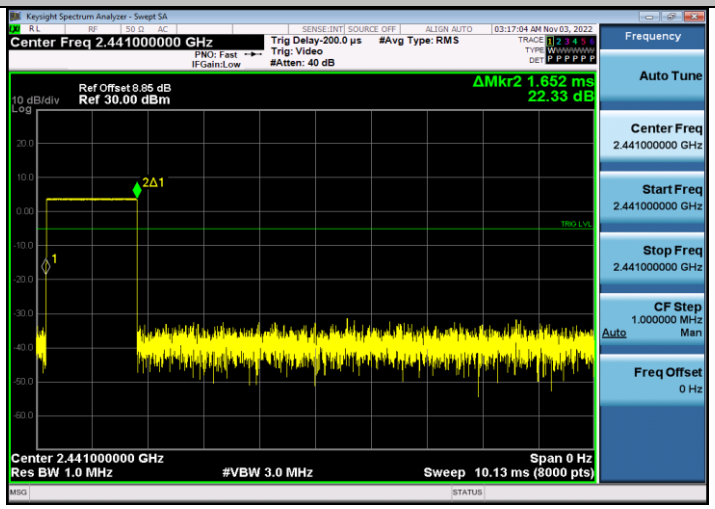
a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
c. Adjust the center frequency of SA on any frequency be measured and set SA to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
d. Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
e. Repeat above procedures until all different time-slot modes have been completed.

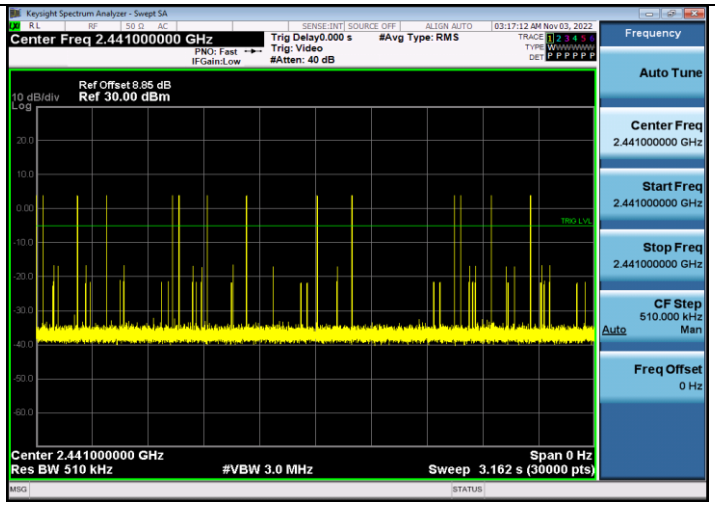
4.6.4 Deviation of Test Standard

No deviation.

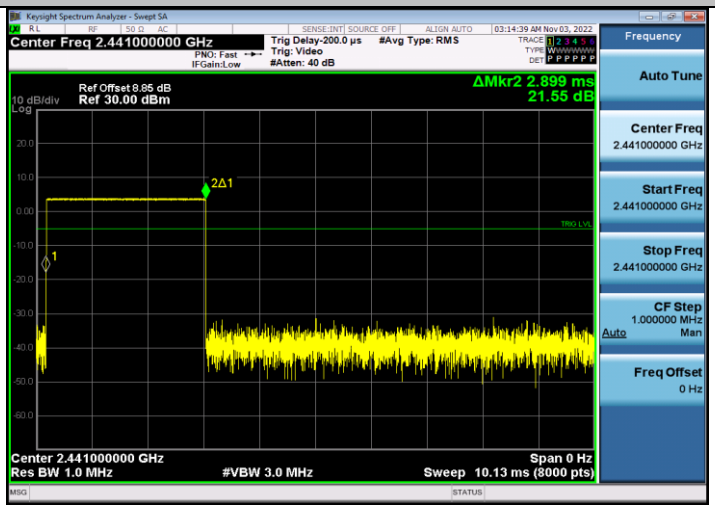
4.6.5 Test Results

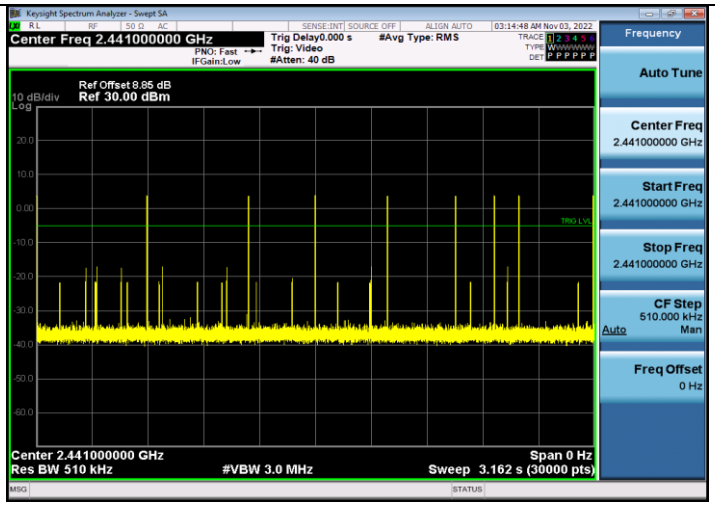
TestMode	Antenna	Channel	BurstWidth	TotalHops	Result	Limit	Verdict
DH1	Ant1	Hop	0.40	330	0.13	<=0.4	PASS
DH3	Ant1	Hop	1.65	140	0.231	<=0.4	PASS
DH5	Ant1	Hop	2.90	90	0.261	<=0.4	PASS
2DH1	Ant1	Hop	0.39	320	0.126	<=0.4	PASS
2DH3	Ant1	Hop	1.65	170	0.28	<=0.4	PASS
2DH5	Ant1	Hop	2.89	100	0.289	<=0.4	PASS
3DH1	Ant1	Hop	0.39	330	0.129	<=0.4	PASS
3DH3	Ant1	Hop	1.64	170	0.278	<=0.4	PASS
3DH5	Ant1	Hop	2.90	130	0.377	<=0.4	PASS

DH1_Ant1_Hop


DH3_Ant1_Hop


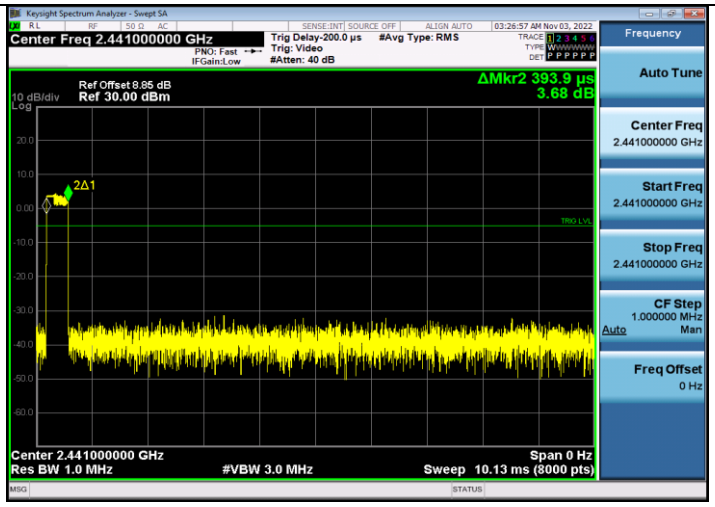


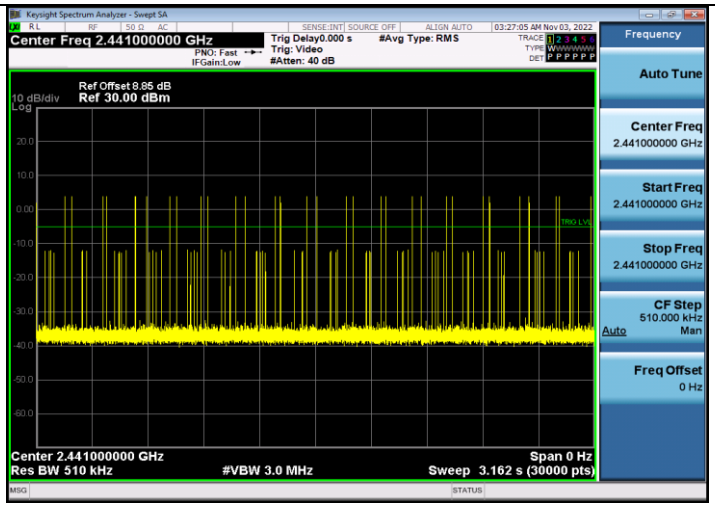
DH5_Ant1_Hop



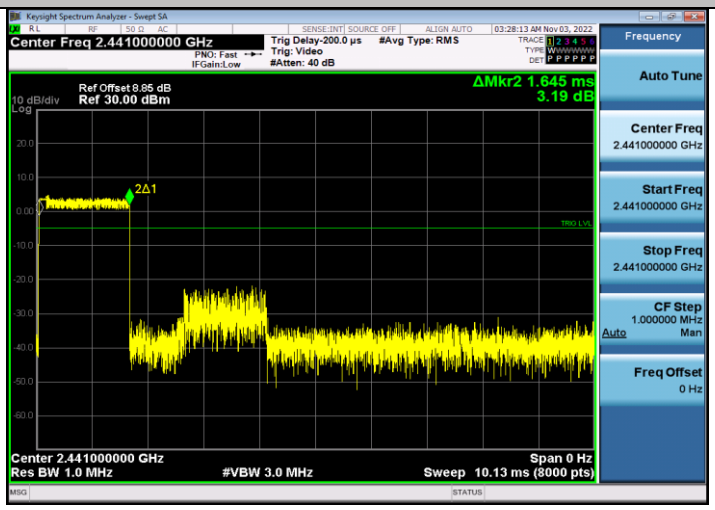


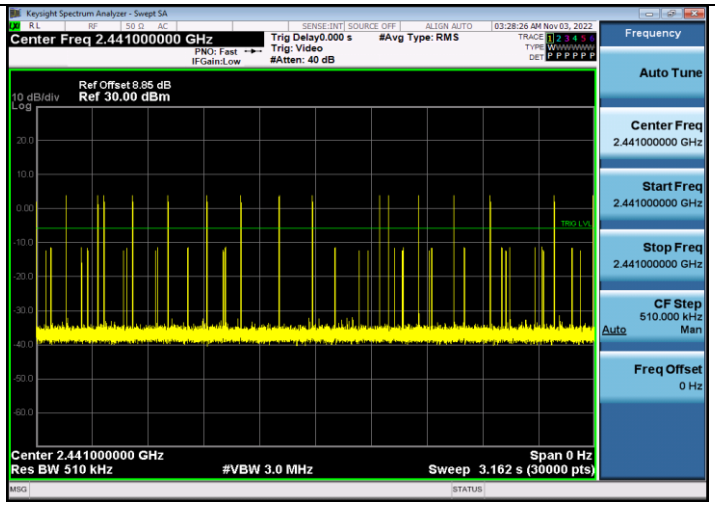
2DH1_Ant1_Hop



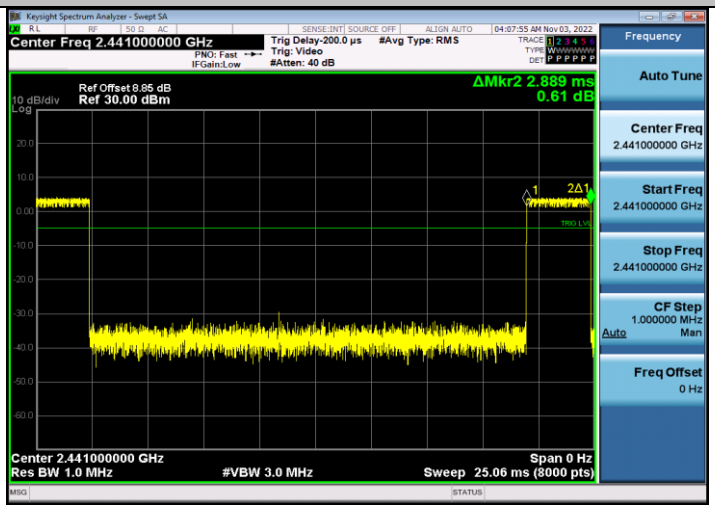


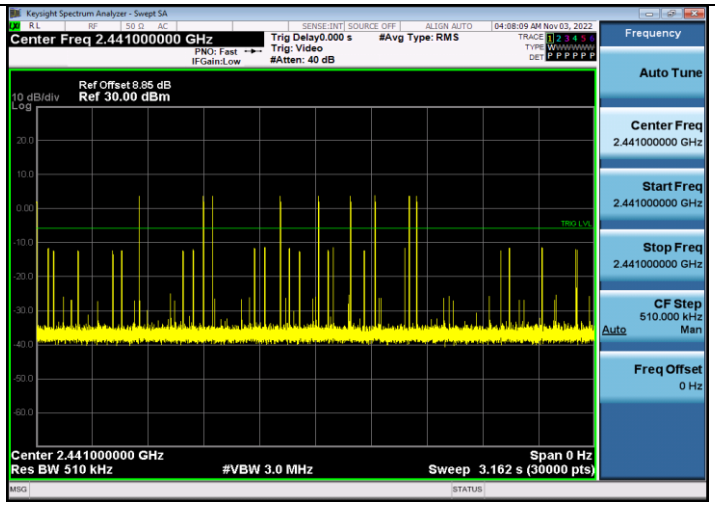
2DH3_Ant1_Hop



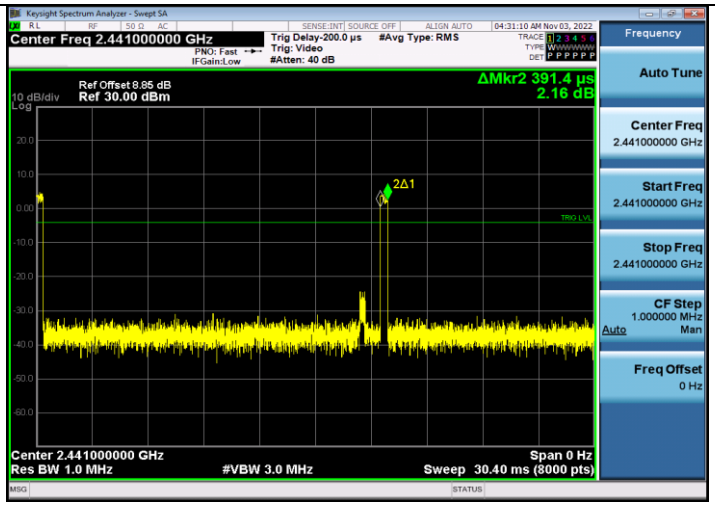


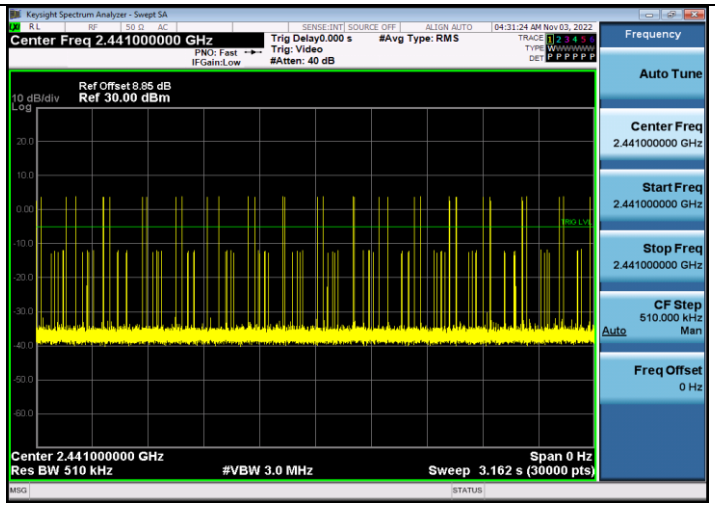
2DH5_Ant1_Hop



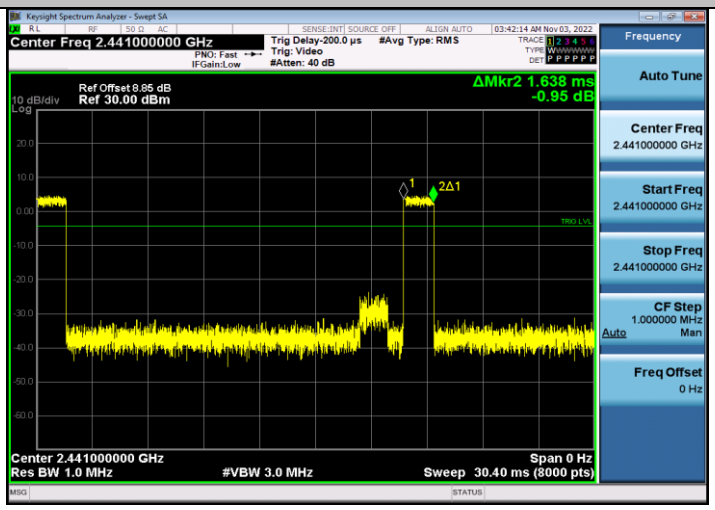


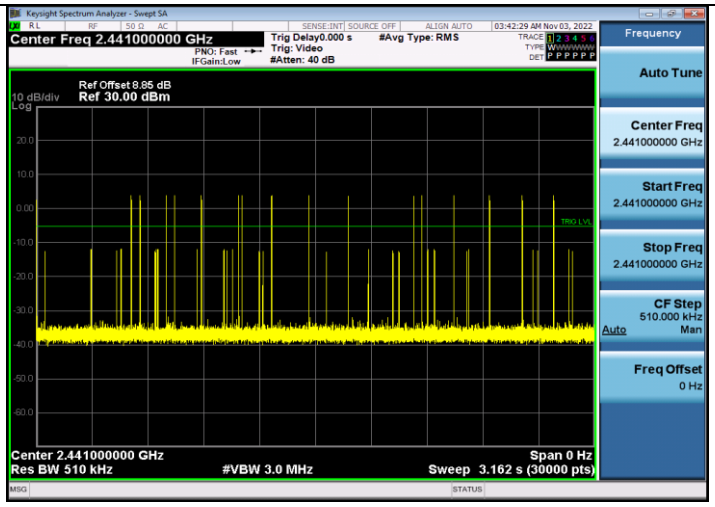
3DH1_Ant1_Hop



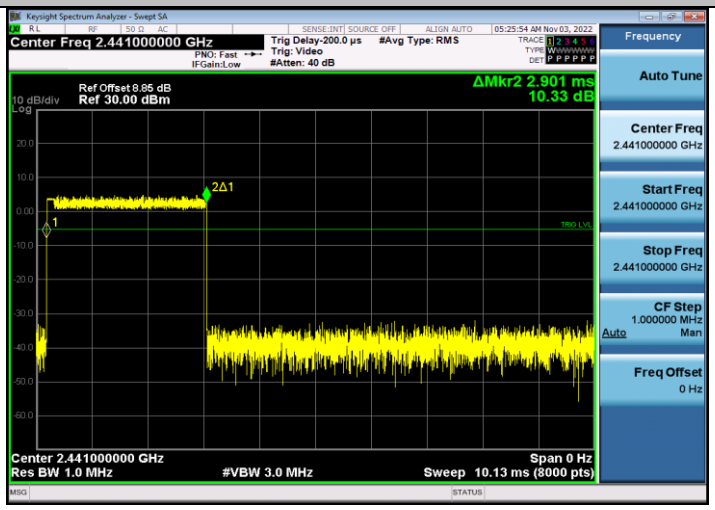


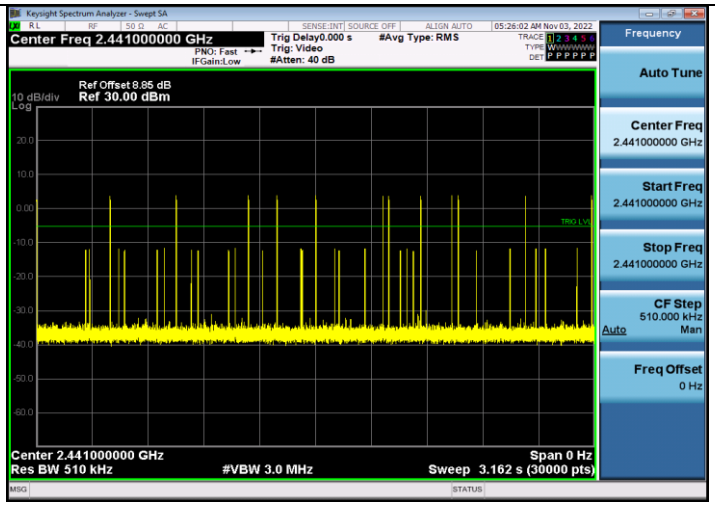
3DH3_Ant1_Hop





3DH5_Ant1_Hop



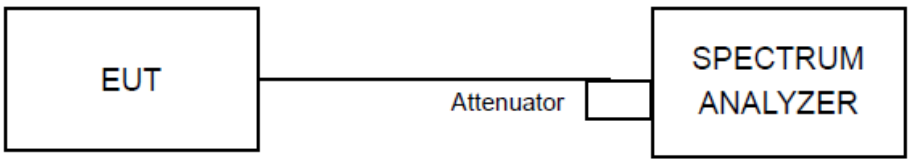


4.7 Conducted Band Edges Measurement

4.7.1 Limit

Below -20dB of the highest emission level of operating band (in 100kHz RBW).

4.7.2 Test Setup



4.7.3 Test Procedures

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz and 300 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

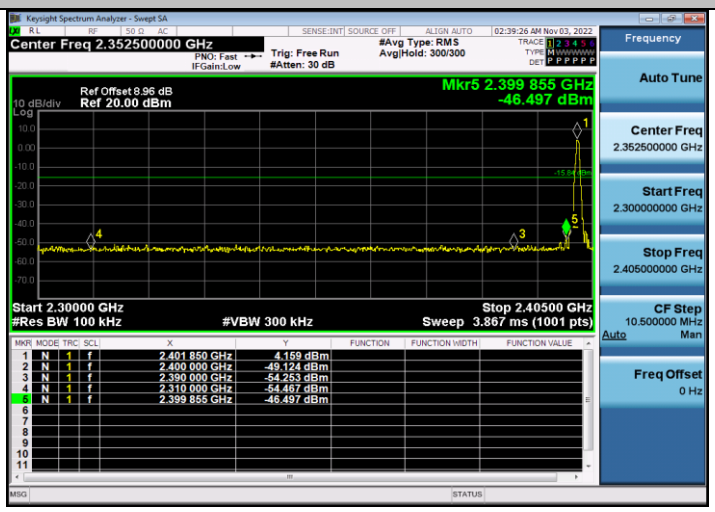
4.7.4 Deviation of Test Standard

No deviation.

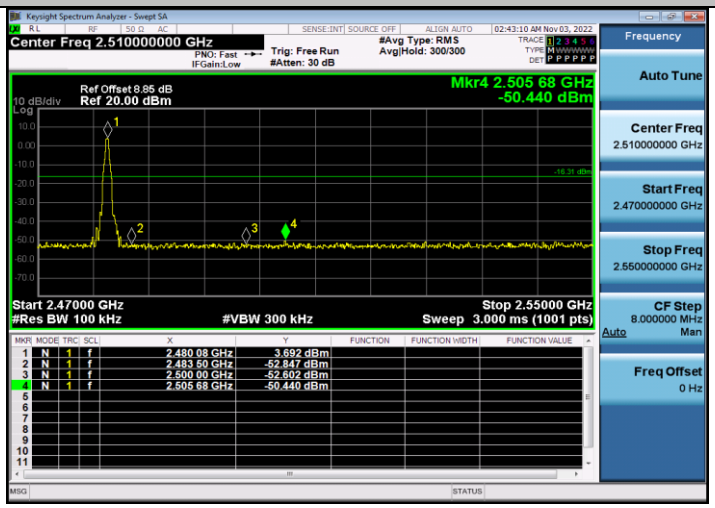
4.7.5 Test Result

TestMode	Antenna	ChName	Channel	RefLevel	Result	Limit	Verdict
DH5	Ant1	Low	2402	4.16	-46.5	<=-15.84	PASS
		High	2480	3.69	-50.44	<=-16.31	PASS
		Low	Hop_2402	3.06	-50.8	<=-16.94	PASS
		High	Hop_2480	4.24	-50.42	<=-15.76	PASS
2DH5	Ant1	Low	2402	3.89	-41.06	<=-16.11	PASS
		High	2480	2.73	-48.77	<=-17.27	PASS
		Low	Hop_2402	2.72	-50.86	<=-17.29	PASS
		High	Hop_2480	2.41	-50.45	<=-17.59	PASS
3DH5	Ant1	Low	2402	4.14	-48.78	<=-15.86	PASS
		High	2480	4.09	-50.14	<=-15.92	PASS
		Low	Hop_2402	-1.21	-51.73	<=-21.21	PASS
		High	Hop_2480	0.16	-50.48	<=-19.85	PASS

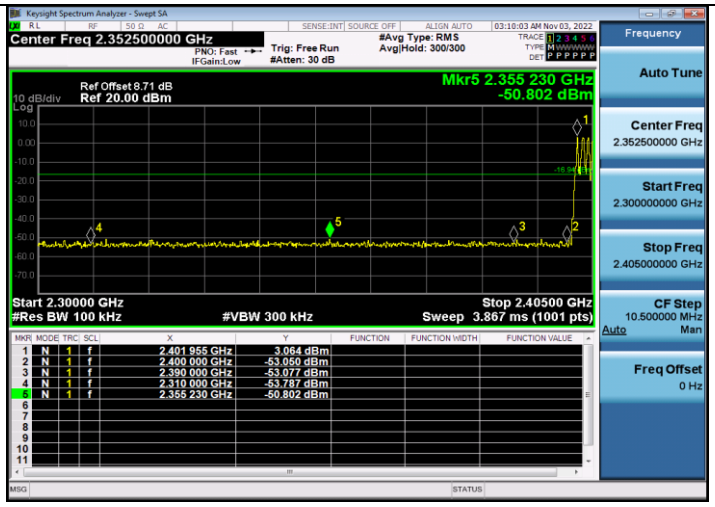
DH5_Ant1_Low_2402



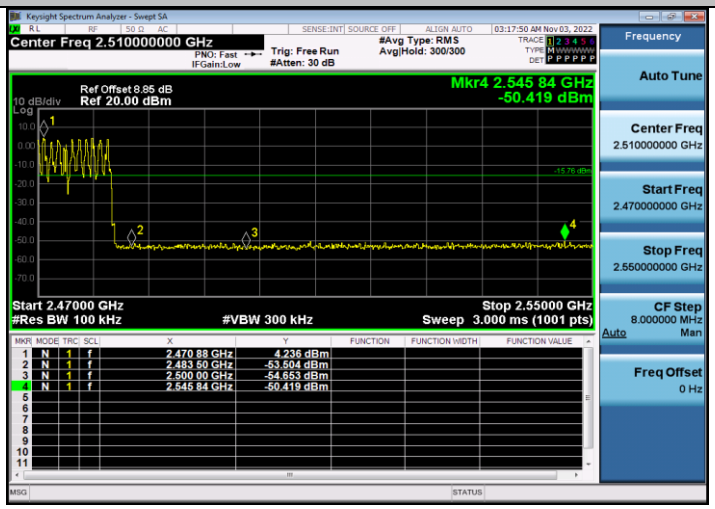
DH5_Ant1_High_2480



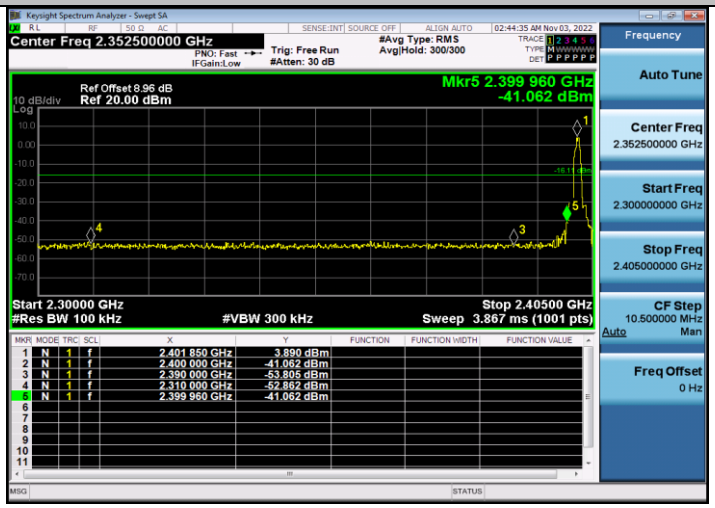
DH5_Ant1_Low_Hop_2402



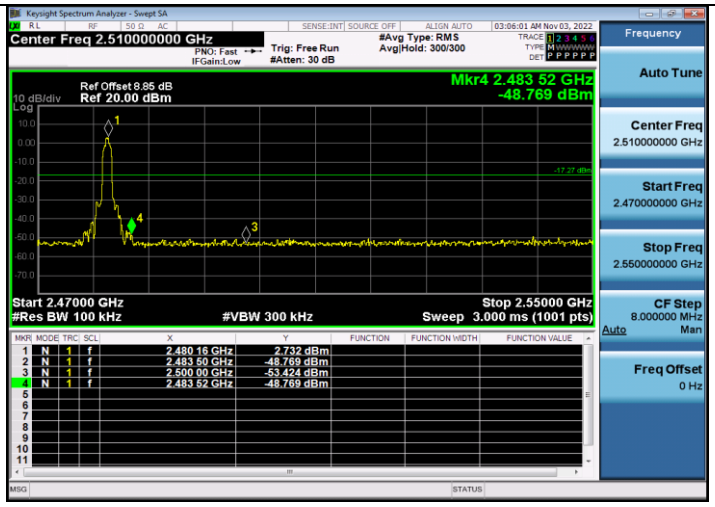
DH5_Ant1_High_Hop_2480



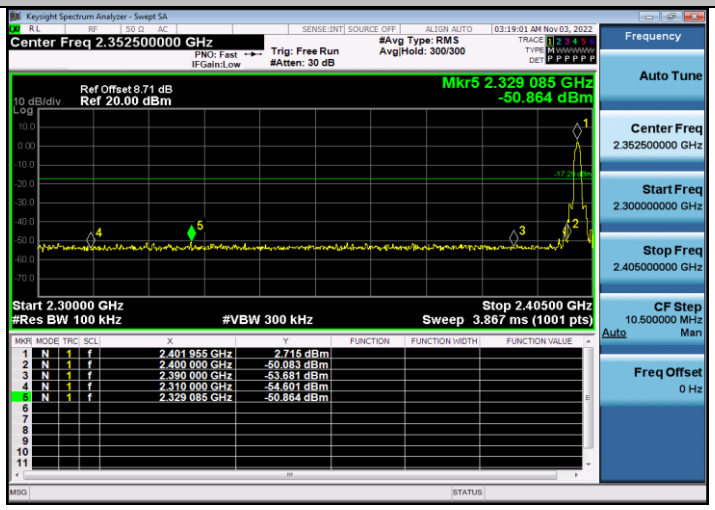
2DH5_Ant1_Low_2402



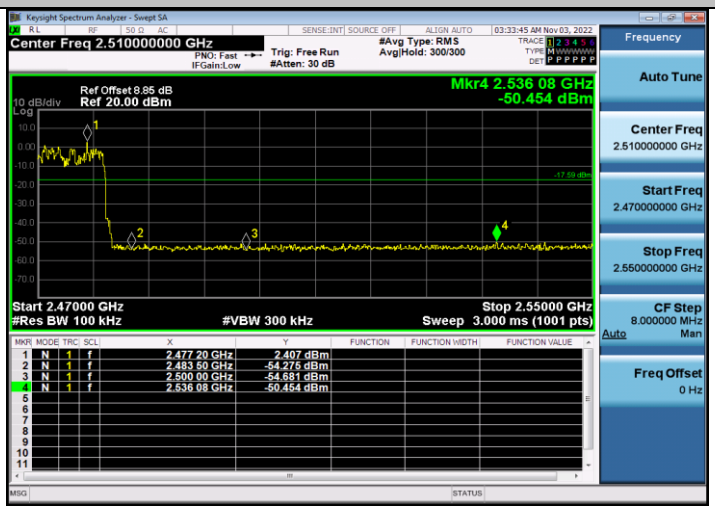
2DH5_Ant1_High_2480



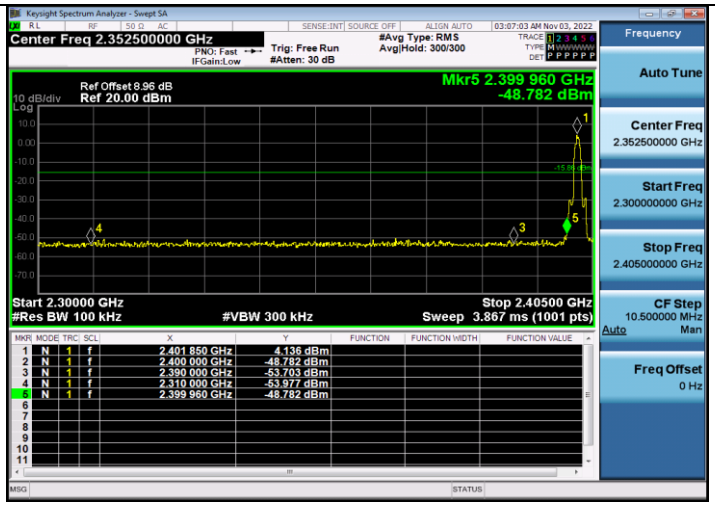
2DH5_Ant1_Low_Hop_2402



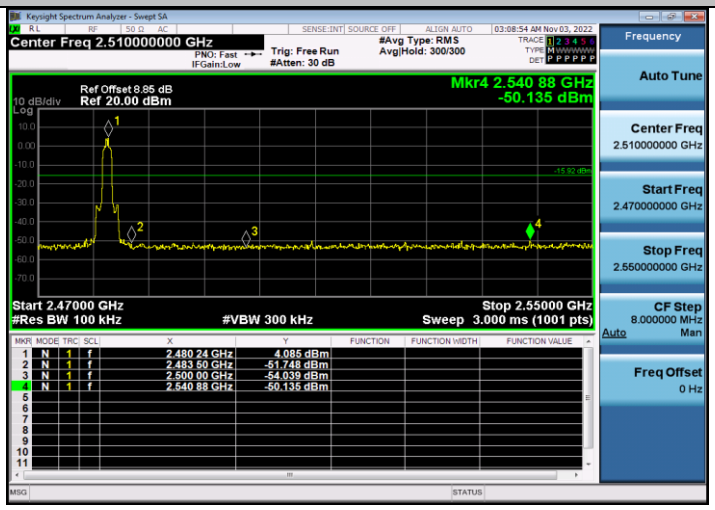
2DH5_Ant1_High_Hop_2480



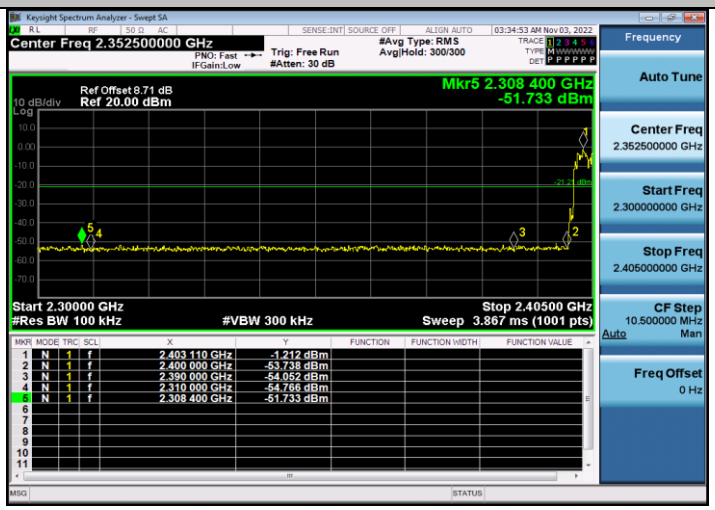
3DH5_Ant1_Low_2402



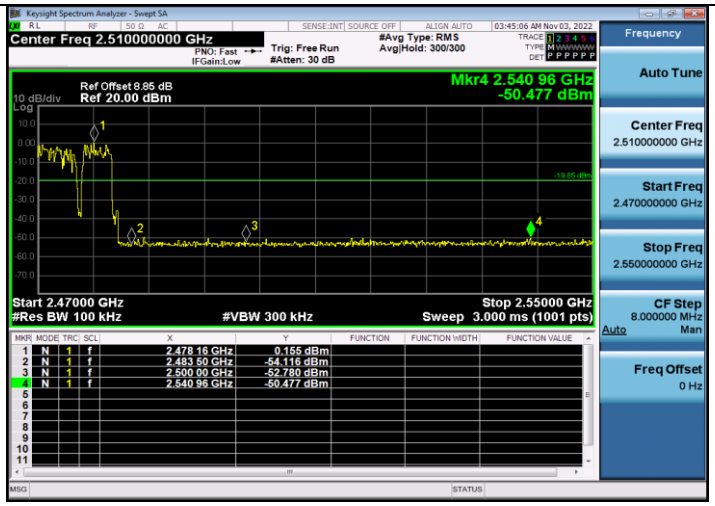
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

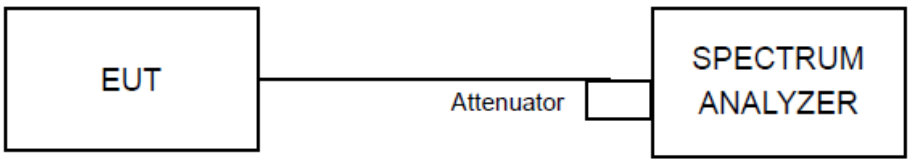

Keysight Spectrum Analyzer - Swept SA
Center Freq 2.510000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 300/300
03:45:06 AM Nov 03, 2022
Ref Offset 8.85 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr4 2.540 96 GHz
-50.477 dBm
Start 2.47000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.55000 GHz
Sweep 3.000 ms (1001 pts)
1 N 1 f 2.478 16 GHz 0.155 dBm
2 N 1 f 2.483 50 GHz -54.116 dBm
3 N 1 f 2.500 00 GHz -52.780 dBm
4 N 1 f 2.540 96 GHz -50.477 dBm
Frequency
Auto Tune
Center Freq
2.510000000 GHz
Start Freq
2.470000000 GHz
Stop Freq
2.550000000 GHz
CF Step
8.000000 MHz
Auto
Man
Freq Offset
0 Hz

4.8 Conducted Spurious Emissions

4.8.1 Limit

Below –20dB of the highest emission level of operating band (in 100kHz RBW).

4.8.2 Test Setup



4.8.3 Test Procedures

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz and 300 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

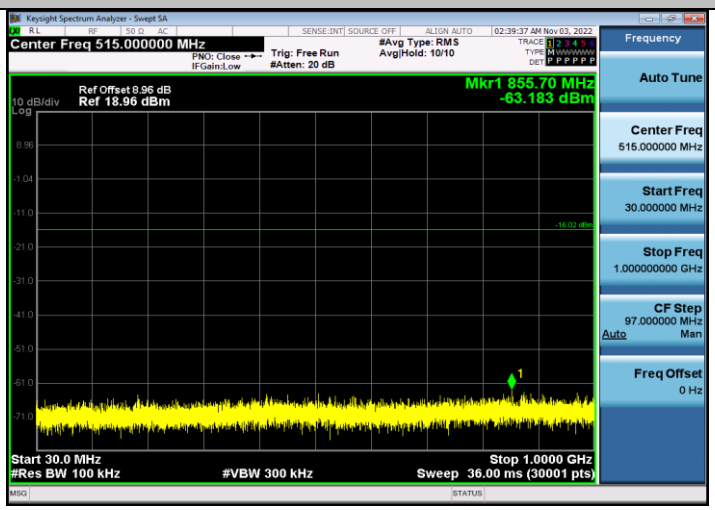
4.8.4 Deviation of Test Standard

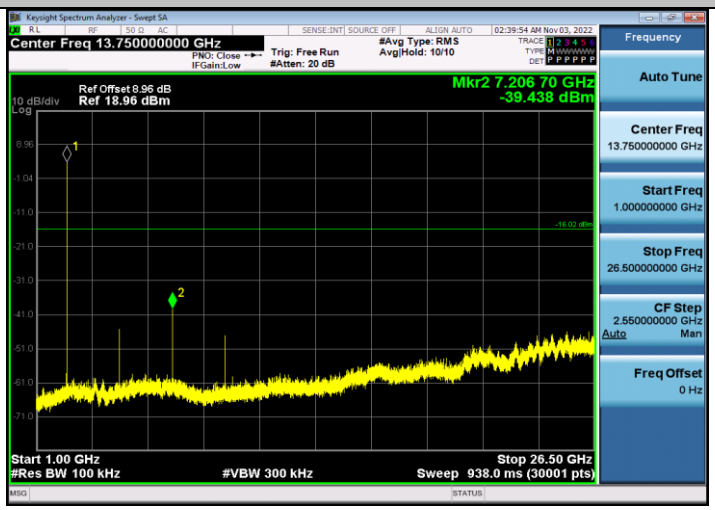
No deviation.

4.8.5 Test Result

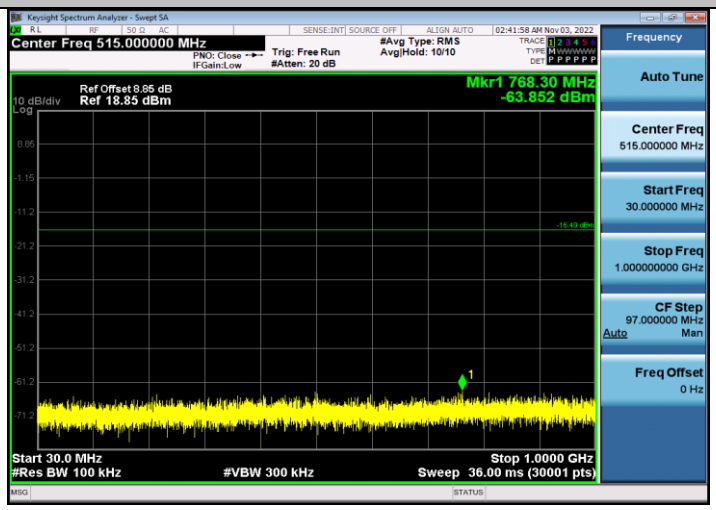
TestMode	Antenna	Channel	FreqRange	RefLevel	Result	Limit	Verdict
DH5	Ant1	2402	Reference	3.98	3.98	---	PASS
			30~1000	3.98	-63.18	<=-16.02	PASS
			1000~26500	3.98	-39.44	<=-16.02	PASS
		2441	Reference	3.51	3.51	---	PASS
			30~1000	3.51	-63.85	<=-16.49	PASS
			1000~26500	3.51	-41.3	<=-16.49	PASS
		2480	Reference	4.16	4.16	---	PASS
			30~1000	4.16	-63.18	<=-15.85	PASS
			1000~26500	4.16	-40.17	<=-15.85	PASS
2DH5	Ant1	2402	Reference	3.56	3.56	---	PASS
			30~1000	3.56	-63.34	<=-16.44	PASS
			1000~26500	3.56	-43.39	<=-16.44	PASS
		2441	Reference	3.49	3.49	---	PASS
		2480	Reference	3.73	3.73	---	PASS
3DH5	Ant1	2402	Reference	4.11	4.11	---	PASS
		2441	Reference	3.26	3.26	---	PASS
		2480	Reference	4.20	4.20	---	PASS

DH5_Ant1_2402_0~Reference


DH5_Ant1_2402_30~1000


DH5_Ant1_2402_1000~26500


DH5_Ant1_2441_0~Reference

DH5_Ant1_2441_30~1000

DH5_Ant1_2441_1000~26500