Appendix B: Test Results of Bluetooth BDR/EDR

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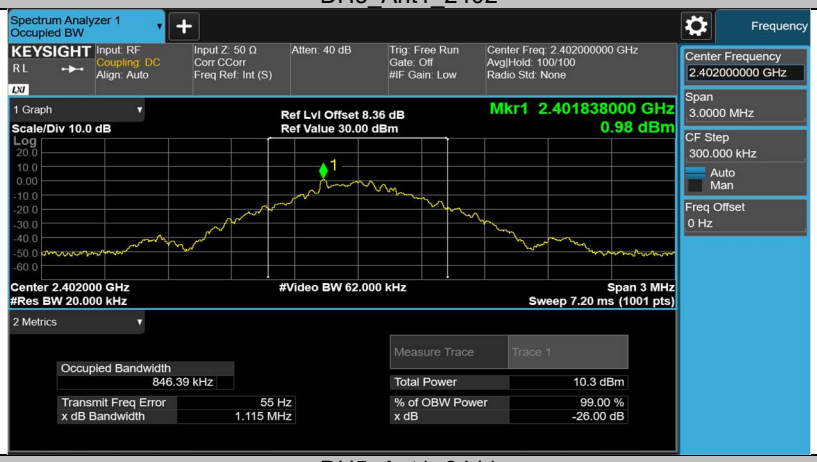
Conducted Spurious Emission *15*

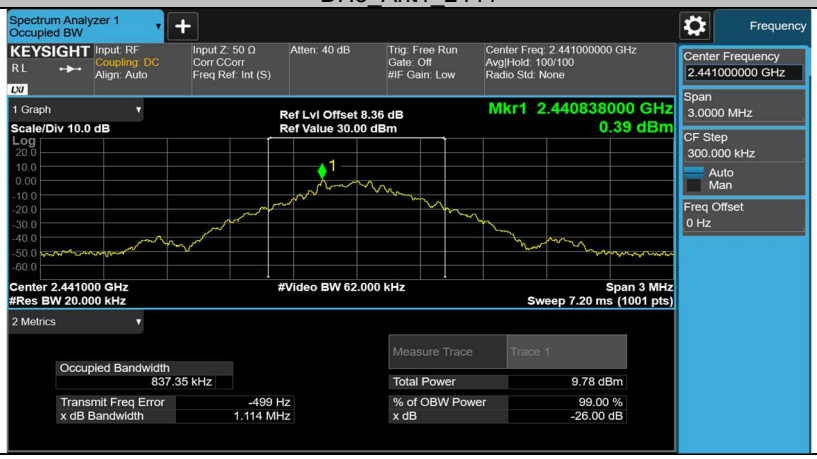
Appendix B.1: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.84639	2401.577	2402.423	---	PASS
		2441	0.83735	2440.581	2441.418	---	PASS
		2480	0.86013	2479.568	2480.428	---	PASS
3DH5	Ant1	2402	1.1854	2401.406	2402.591	---	PASS
		2441	1.1782	2440.412	2441.590	---	PASS
		2480	1.1753	2479.413	2480.588	---	PASS

DH5_Ant1_2402



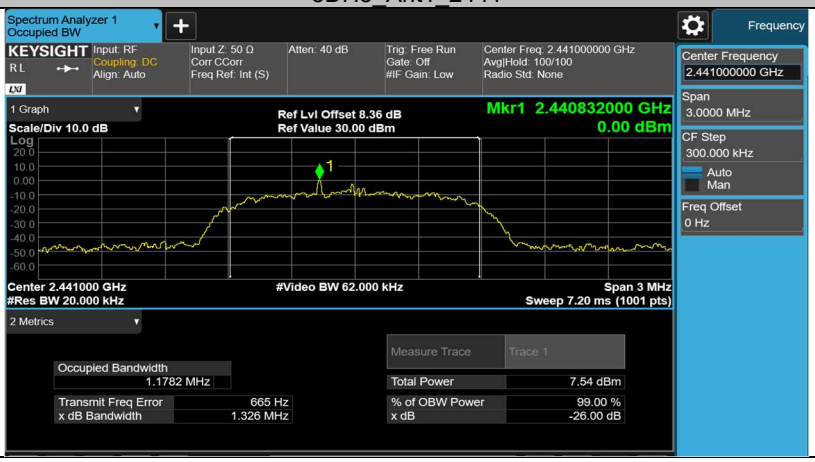
DH5_Ant1_2441



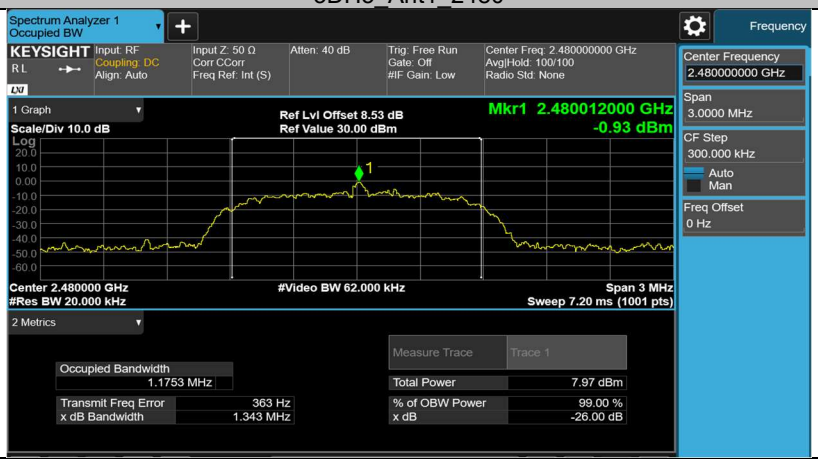
DH5_Ant1_2480

3DH5_Ant1_2402

3DH5_Ant1_2441



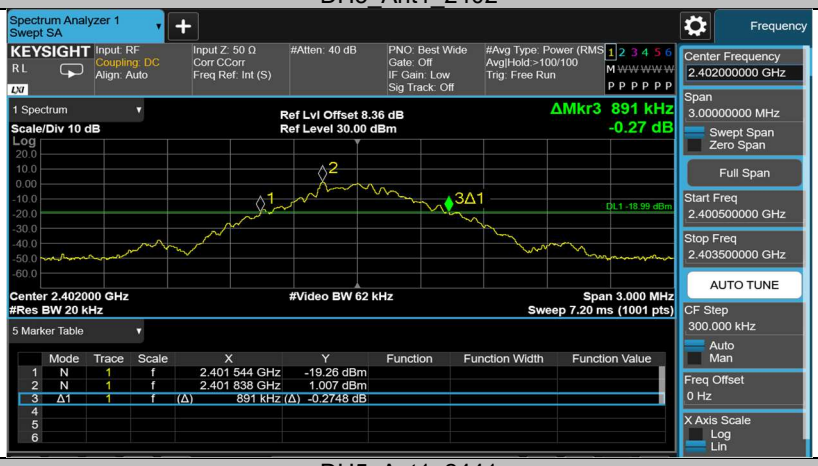
3DH5_Ant1_2480



Appendix B.2: Test Results of 20dB Bandwidth

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.891	2401.544	2402.435	---	PASS
		2441	0.867	2440.544	2441.411	---	PASS
		2480	0.891	2479.541	2480.432	---	PASS
3DH5	Ant1	2402	1.242	2401.370	2402.612	---	PASS
		2441	1.239	2440.373	2441.612	---	PASS
		2480	1.245	2479.367	2480.612	---	PASS

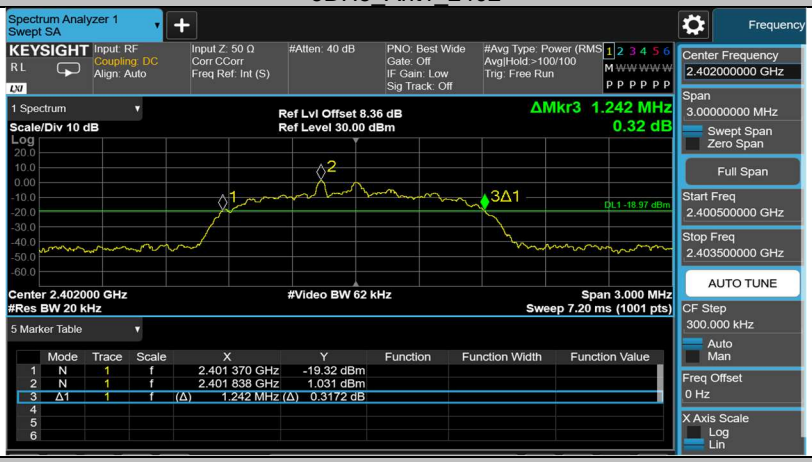
DH5_Ant1_2402



DH5_Ant1_2441

DH5_Ant1_2480

3DH5_Ant1_2402



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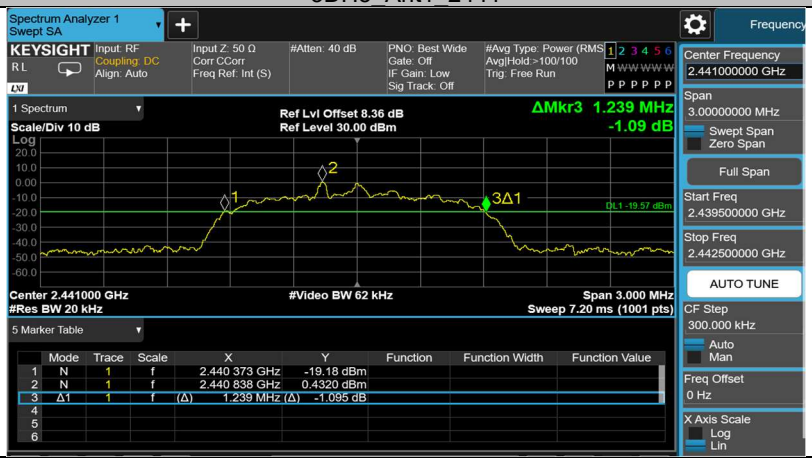
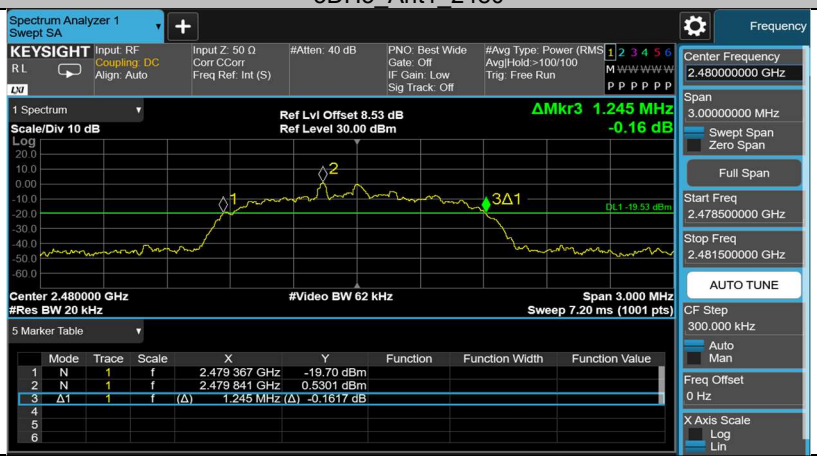


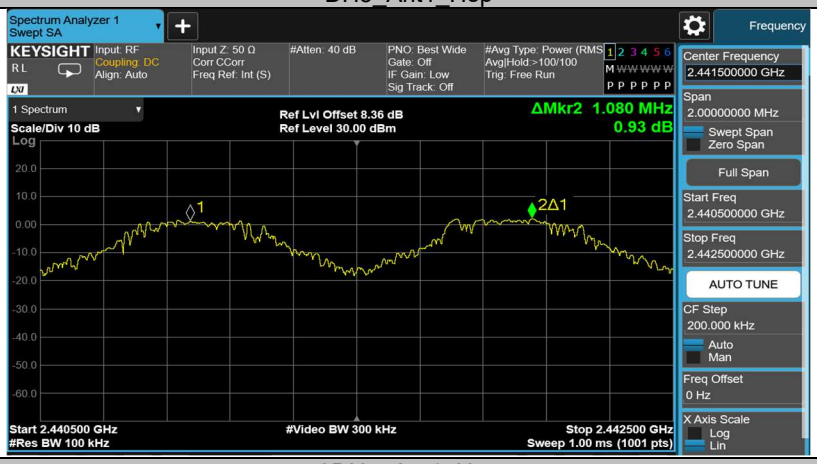
3DH5_Ant1_2480



Appendix B.3: Test Results of Carrier Frequency Separation

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Hop	1.08	≥0.891	PASS
3DH5	Ant1	Hop	1.034	≥0.830	PASS

DH5_Ant1_Hop

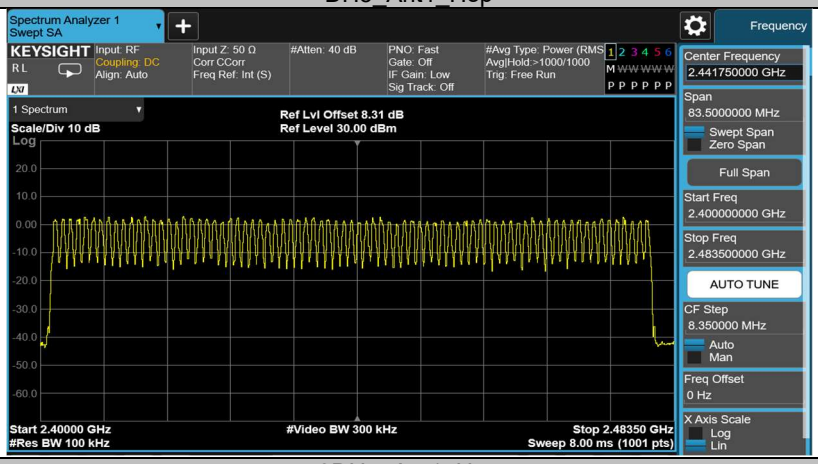


3DH5_Ant1_Hop

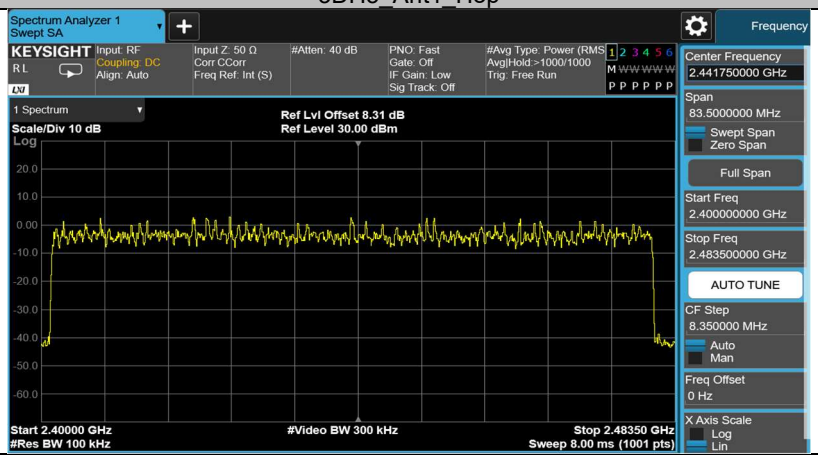
Appendix B.4: Test Results of Number of Hopping Frequency

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

DH5_Ant1_Hop



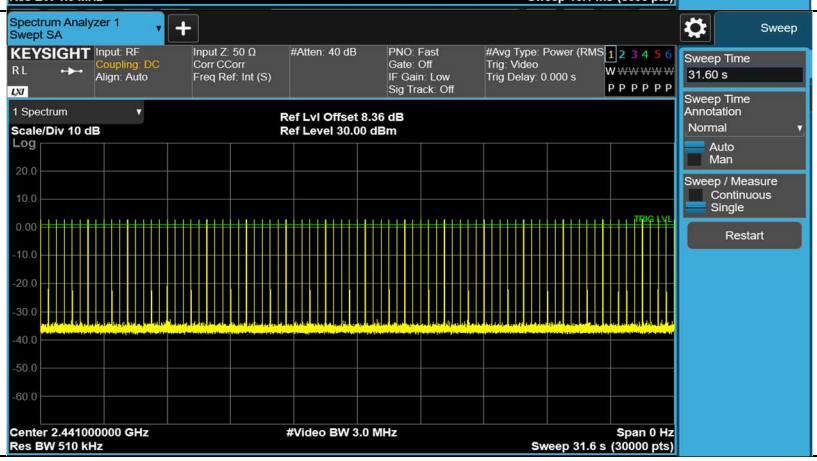
3DH5_Ant1_Hop



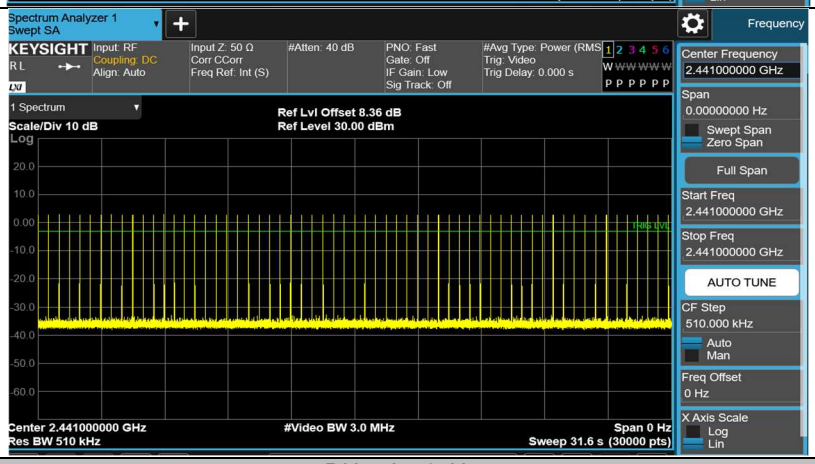
Appendix B.5: Test Results of Time of Occupancy

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	80	0.03	≤0.4	PASS
DH3	Ant1	Hop	1.62	61	0.099	≤0.4	PASS
DH5	Ant1	Hop	2.87	45	0.129	≤0.4	PASS
3DH1	Ant1	Hop	0.38	80	0.03	≤0.4	PASS
3DH3	Ant1	Hop	1.63	63	0.103	≤0.4	PASS
3DH5	Ant1	Hop	2.88	45	0.13	≤0.4	PASS

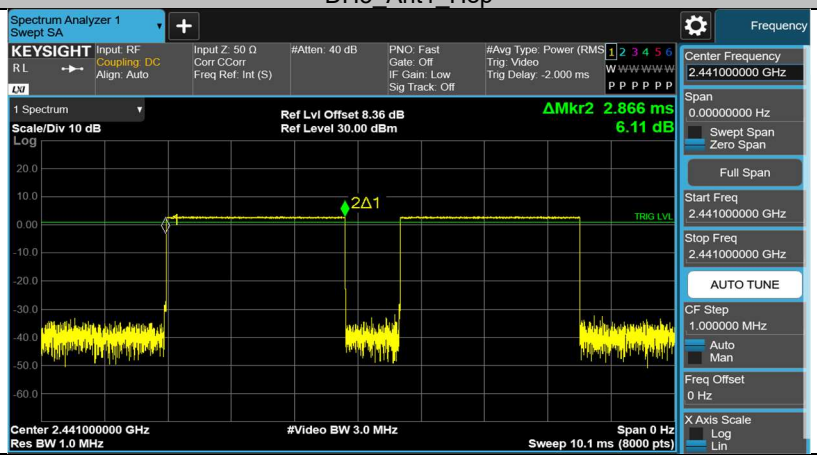
DH1_Ant1_Hop

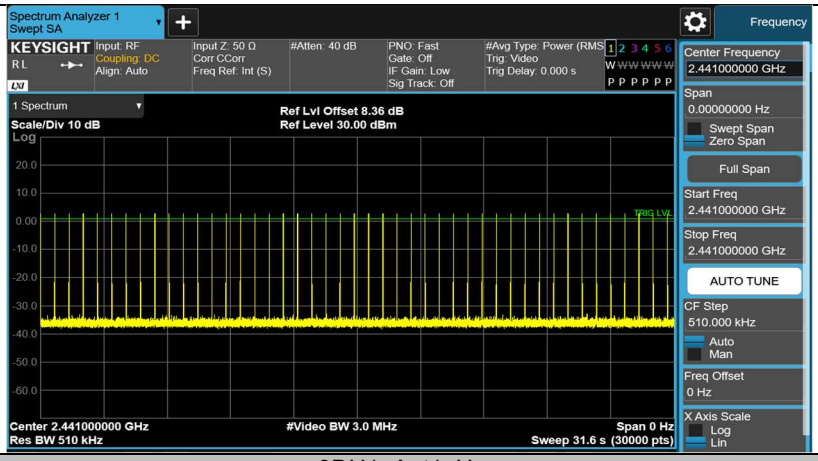


DH3_Ant1_Hop

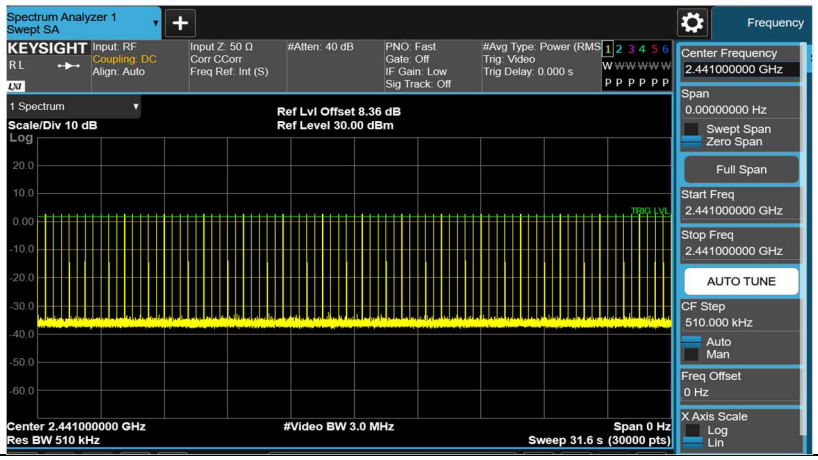


DH5_Ant1_Hop

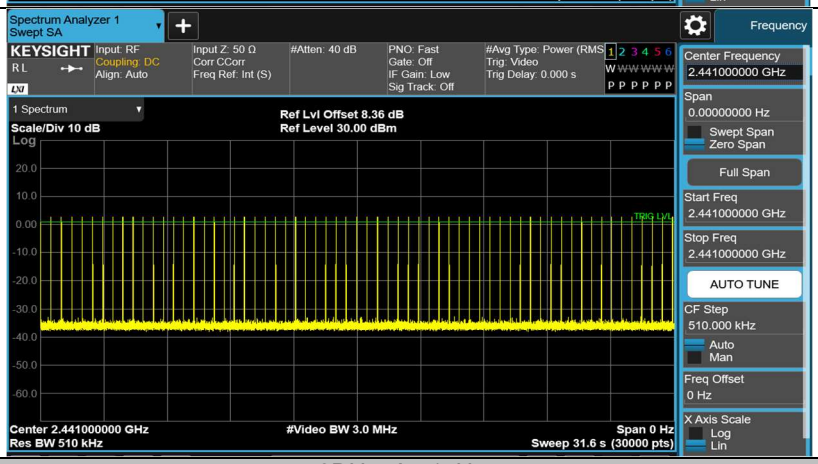




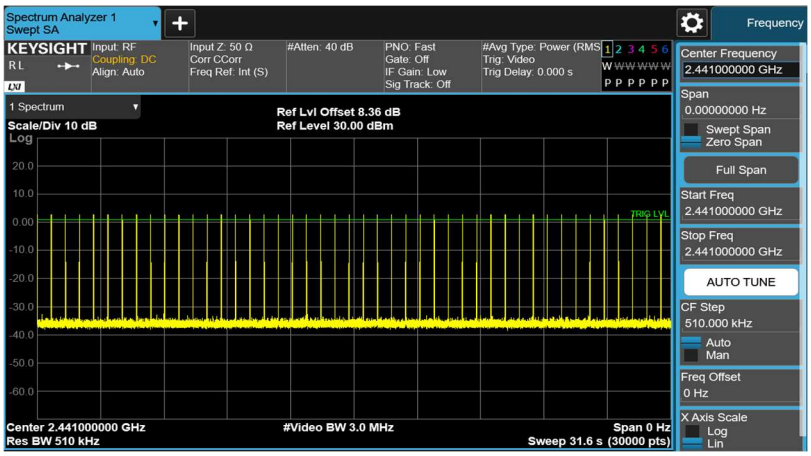
3DH1_Ant1_Hop



3DH3_Ant1_Hop



3DH5_Ant1_Hop

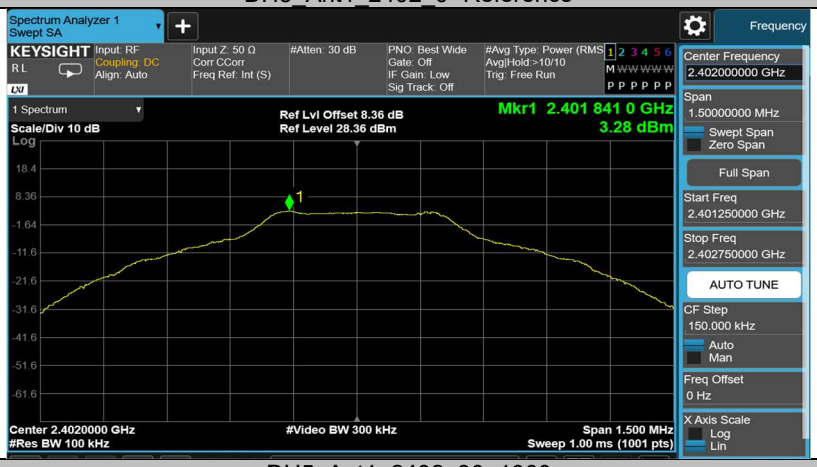

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 40 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Trig: Video
Trig Delay: 0.000 s
Frequency
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 8.36 dB
Ref Level 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
TRIG LVL
Center 2.441000000 GHz
Res BW 510 kHz
#Video BW 3.0 MHz
Span 0 Hz
Sweep 31.6 s (30000 pts)
Center Frequency
2.441000000 GHz
Span
0.00000000 Hz
Swept Span
Zero Span
Full Span
Start Freq
2.441000000 GHz
Stop Freq
2.441000000 GHz
AUTO TUNE
CF Step
510.000 kHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin

Appendix B.6: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Conducted Spurious Emission

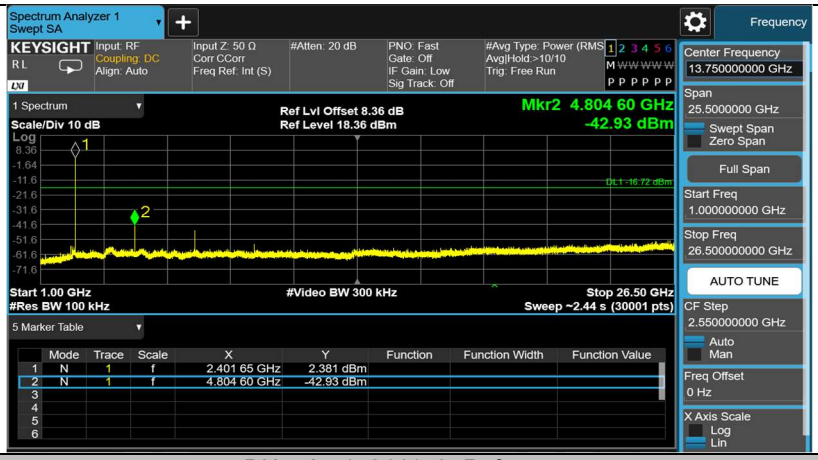
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	3.28	3.28	---	PASS
			30~1000	3.28	-63.15	≤-16.72	PASS
			1000~26500	3.28	-42.93	≤-16.72	PASS
		2441	Reference	2.78	2.78	---	PASS
			30~1000	2.78	-62.55	≤-17.22	PASS
			1000~26500	2.78	-41.58	≤-17.22	PASS
		2480	Reference	2.96	2.96	---	PASS
			30~1000	2.96	-62.12	≤-17.04	PASS
			1000~26500	2.96	-41.54	≤-17.04	PASS
3DH5	Ant1	2402	Reference	3.24	3.24	---	PASS
			30~1000	3.24	-62.39	≤-16.76	PASS
			1000~26500	3.24	-47.66	≤-16.76	PASS
		2441	Reference	2.75	2.75	---	PASS
			30~1000	2.75	-62.04	≤-17.25	PASS
			1000~26500	2.75	-44.65	≤-17.25	PASS
		2480	Reference	2.93	2.93	---	PASS
			30~1000	2.93	-62.02	≤-17.07	PASS
			1000~26500	2.93	-41.91	≤-17.07	PASS

DH5_Ant1_2402_0~Reference

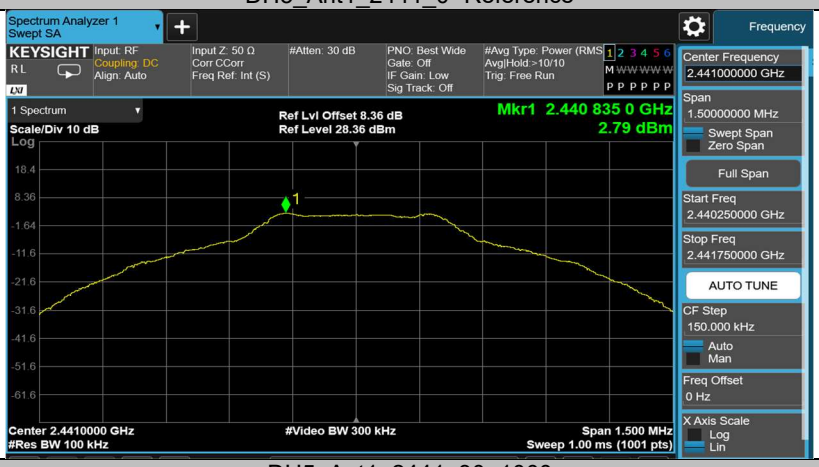


DH5_Ant1_2402_30~1000

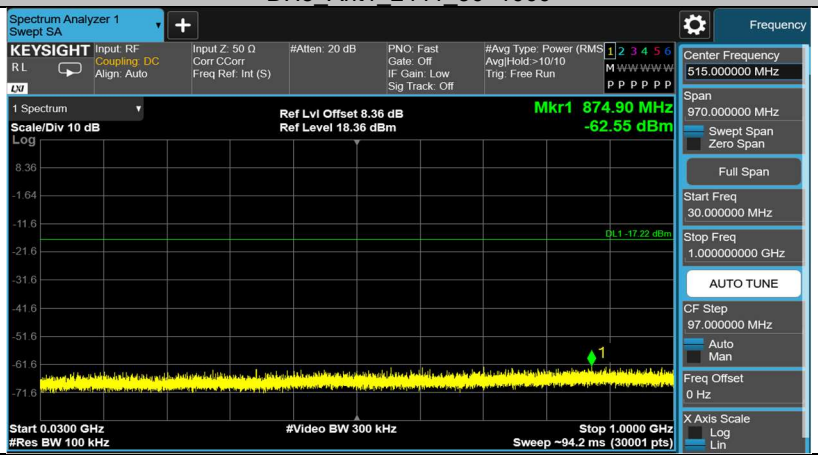
DH5_Ant1_2402_1000~26500



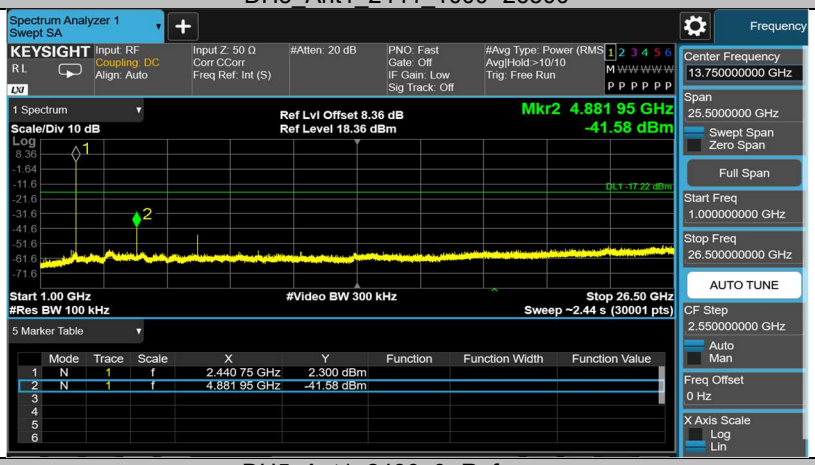
DH5_Ant1_2441_0~Reference



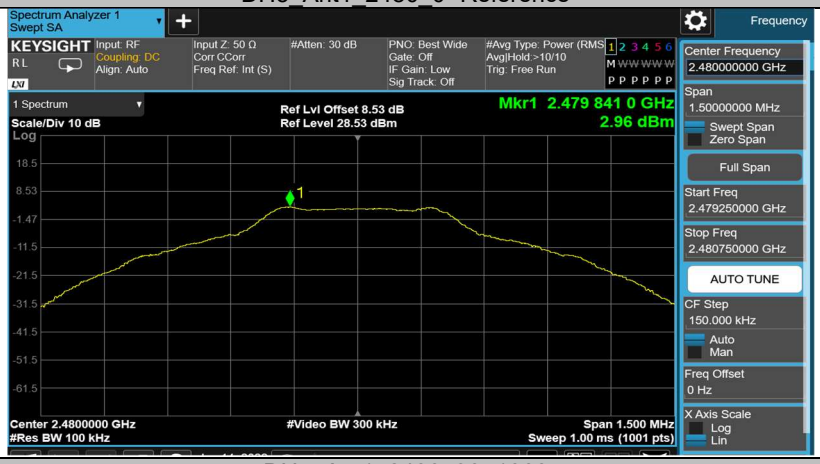
DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500

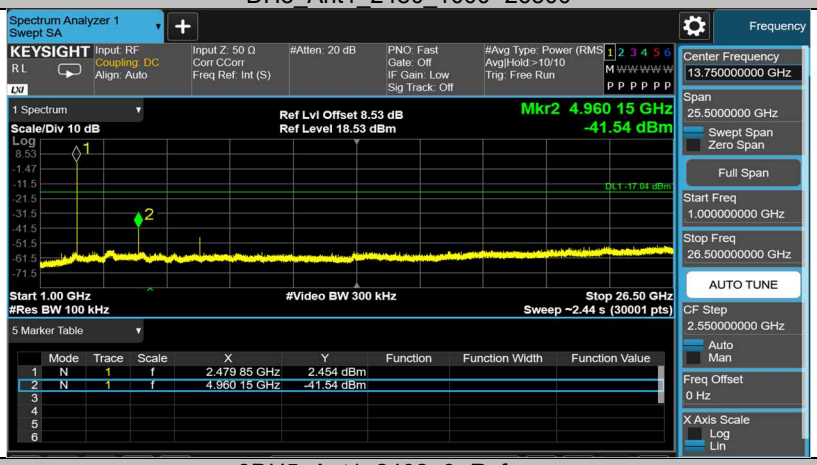


DH5_Ant1_2480_0~Reference

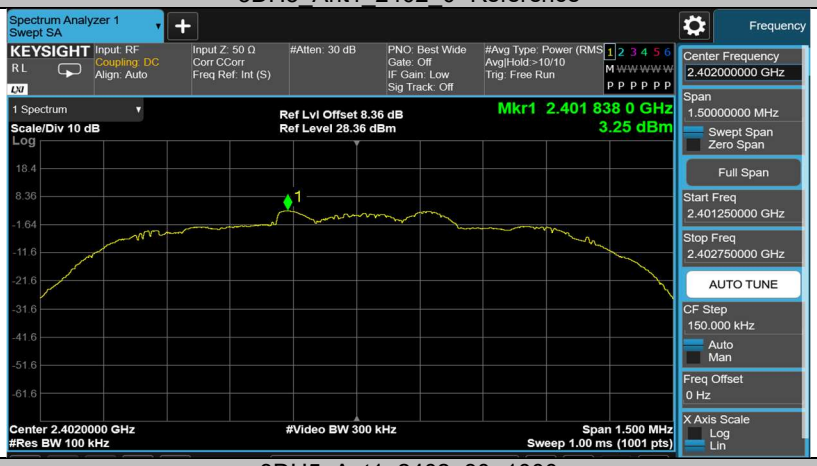


DH5_Ant1_2480_30~1000

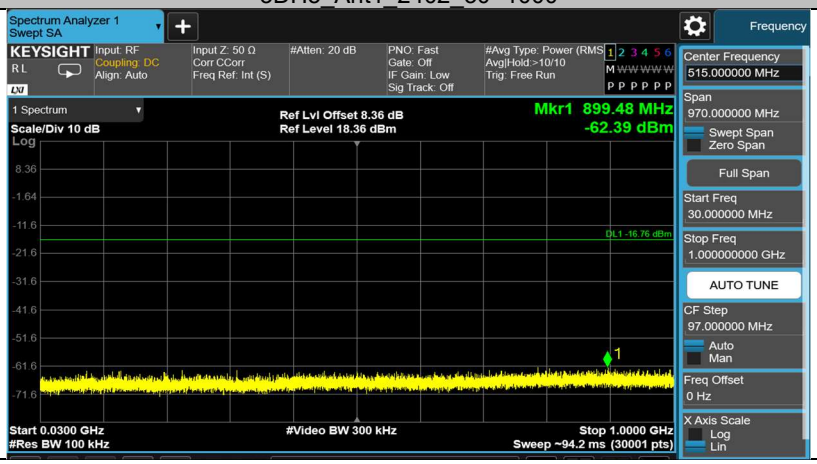
DH5_Ant1_2480_1000~26500



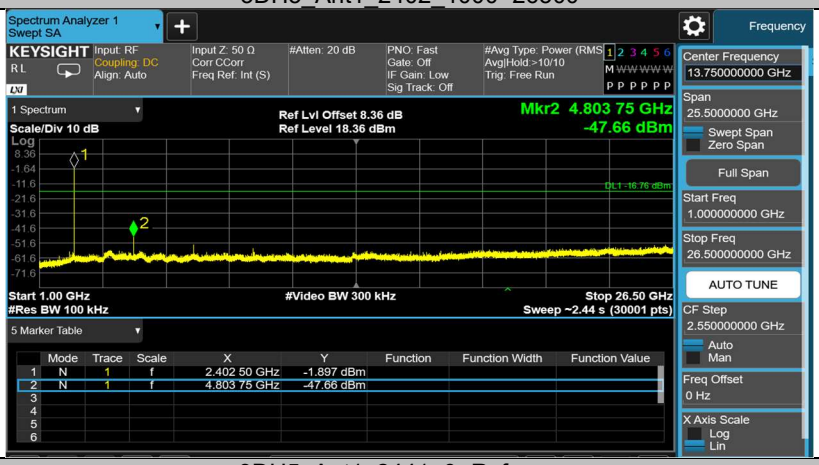
3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

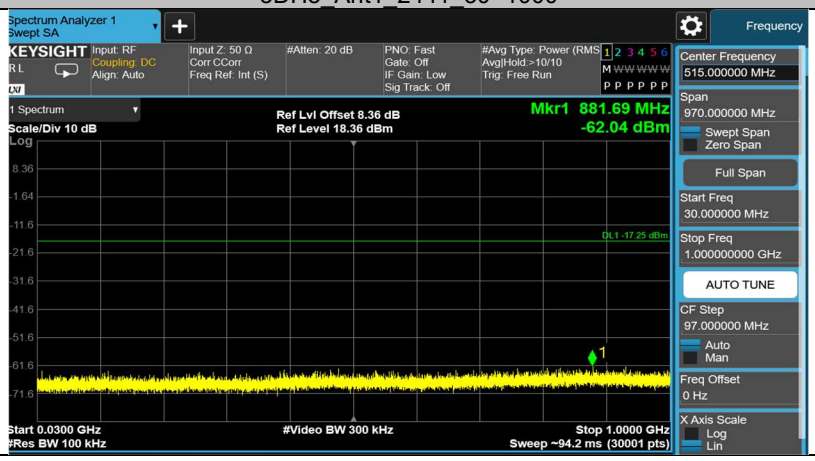


3DH5_Ant1_2402_1000~26500

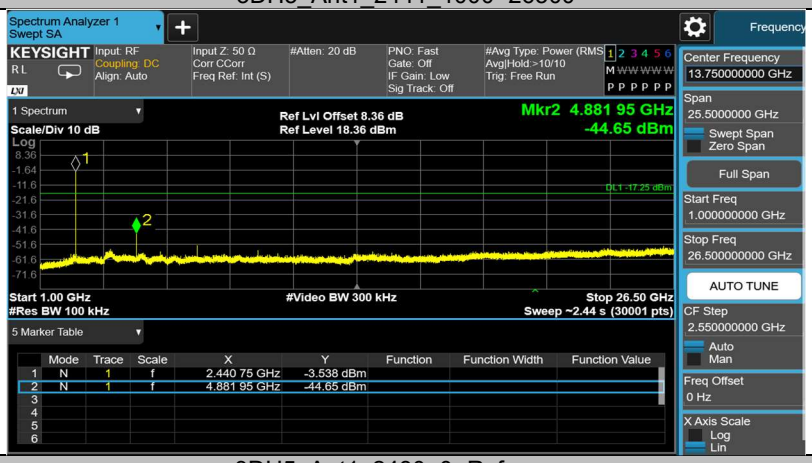


3DH5_Ant1_2441_0~Reference

3DH5_Ant1_2441_30~1000

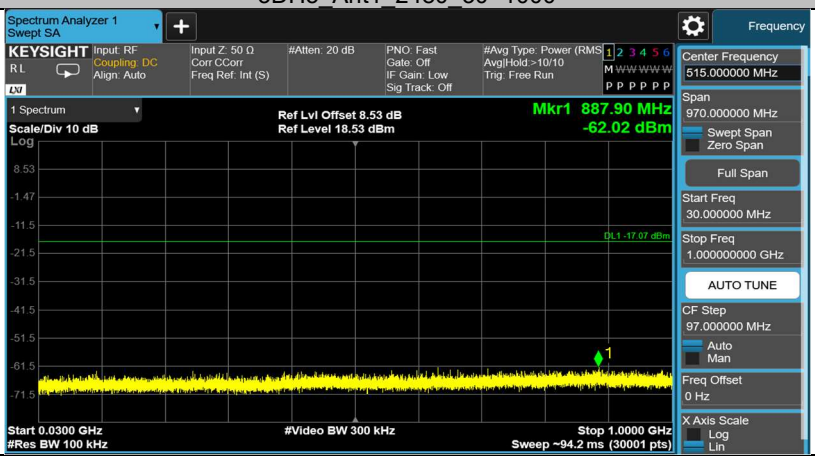
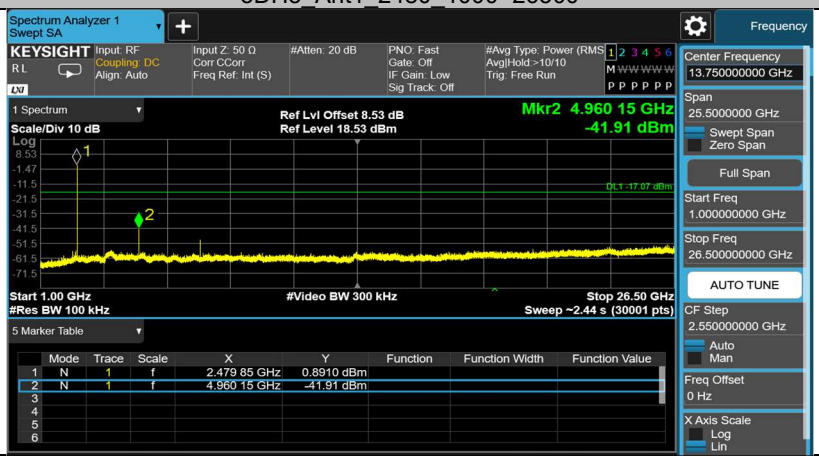


3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500