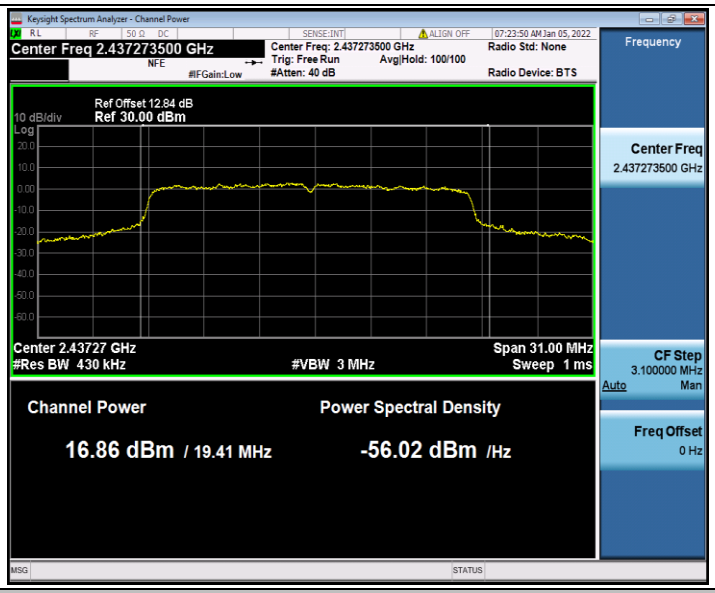
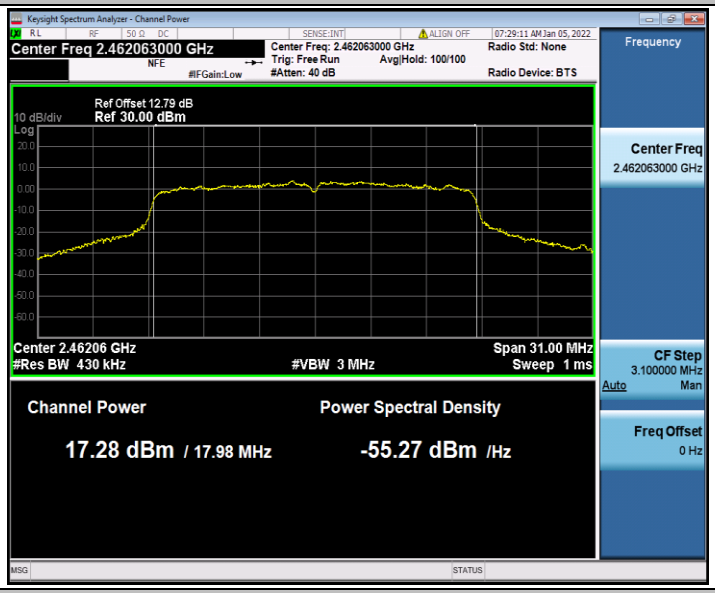
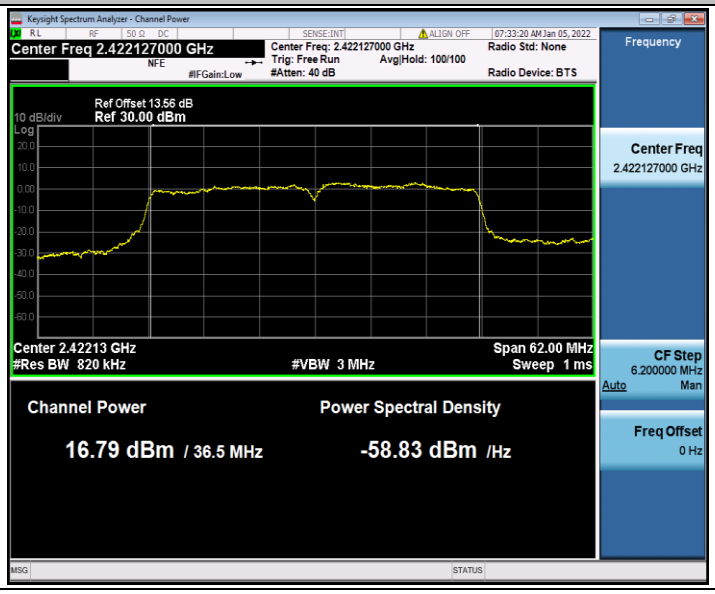


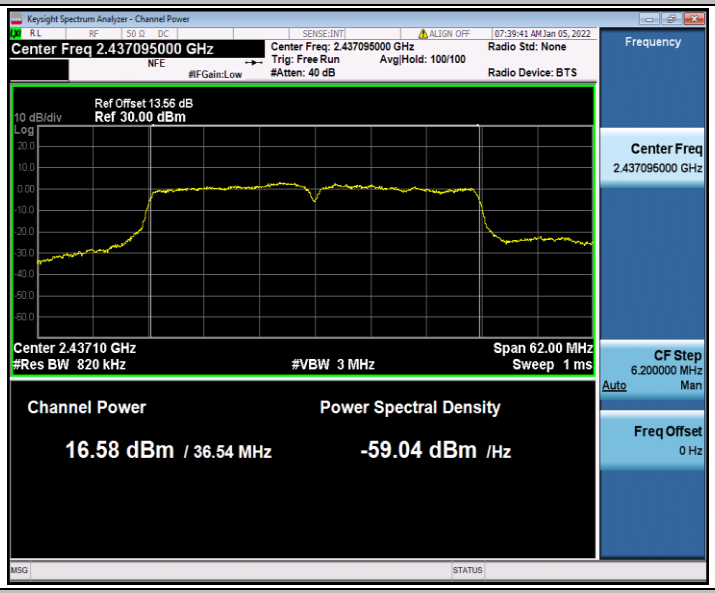
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



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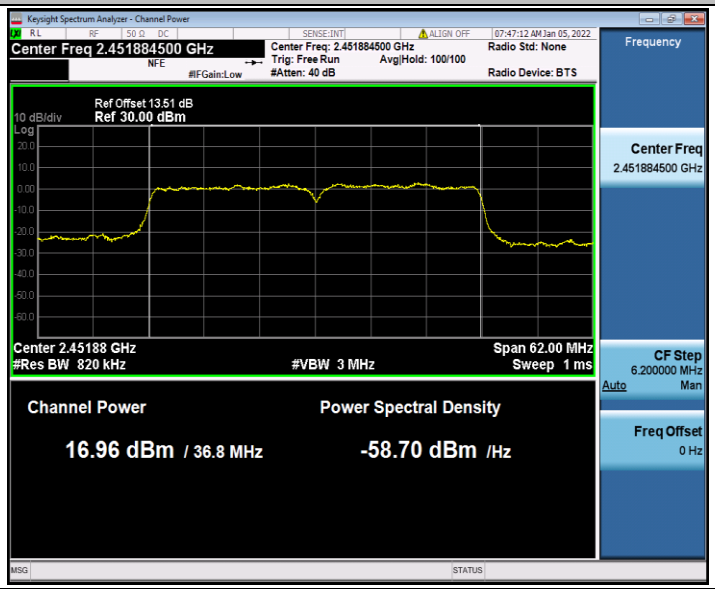
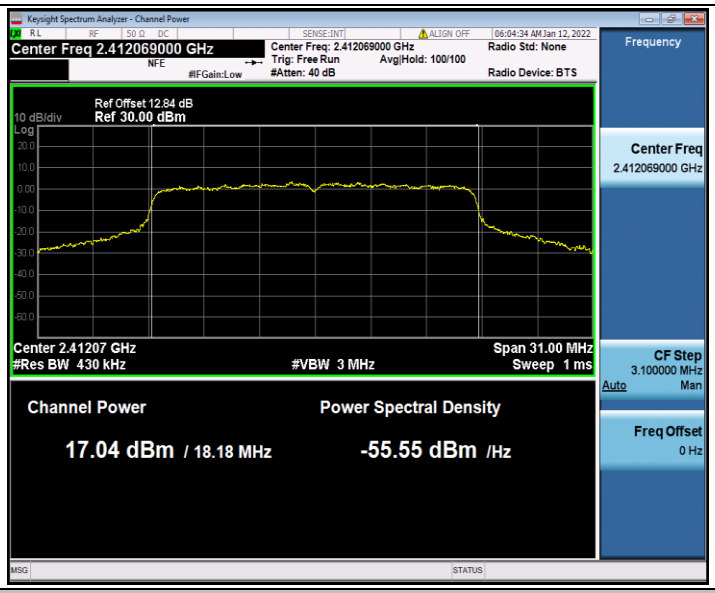


11AC20SISO_Ant1_2412



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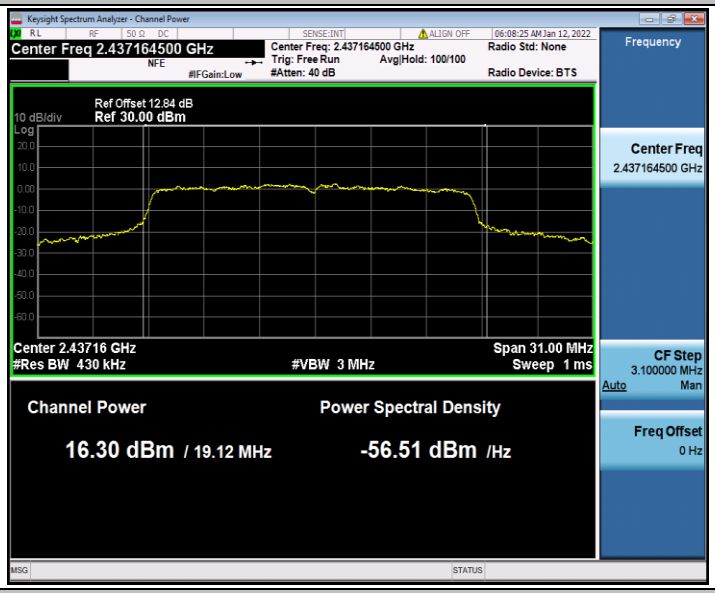
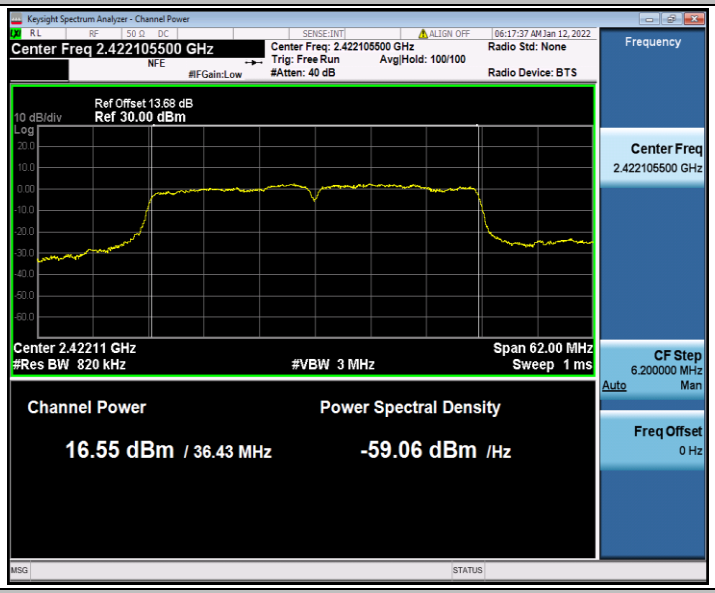


11AC20SISO_Ant1_2462

11AC40SISO_Ant1_2422



11AC40SISO_Ant1_2437

11AC40SISO_Ant1_2452

Keysight Spectrum Analyzer - Channel Power
RL
RF
50 Ω DC
SENSE:INT
ALIGN OFF
06:30:28 AM Jan 12, 2022
Center Freq 2.451860500 GHz
NFE
#IFGain:Low
Center Freq: 2.451860500 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 13.63 dB
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center 2.45186 GHz
#Res BW 820 kHz
#VBW 3 MHz
Span 62.00 MHz
Sweep 1 ms
Center Freq
2.451860500 GHz
CF Step
6.200000 MHz
Auto
Man
Freq Offset
0 Hz
Channel Power
16.56 dBm / 36.83 MHz
Power Spectral Density
-59.10 dBm /Hz
MSG
STATUS

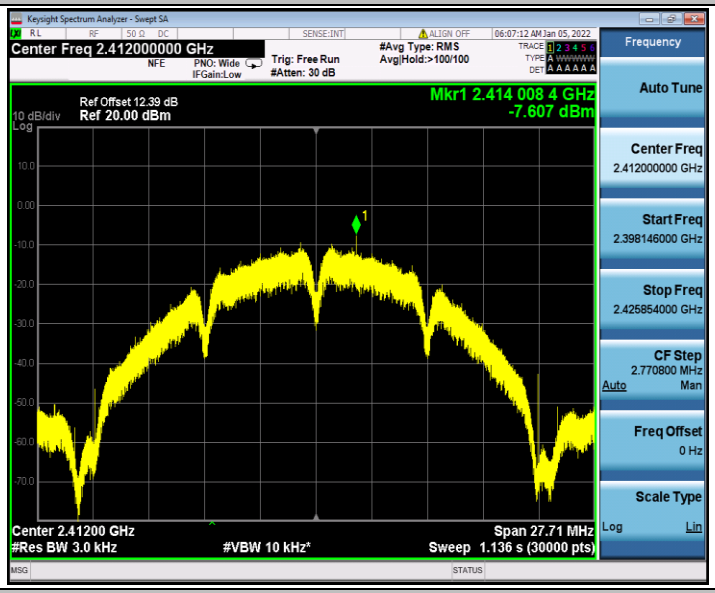
Appendix D: Maximum power spectral density

Test Result

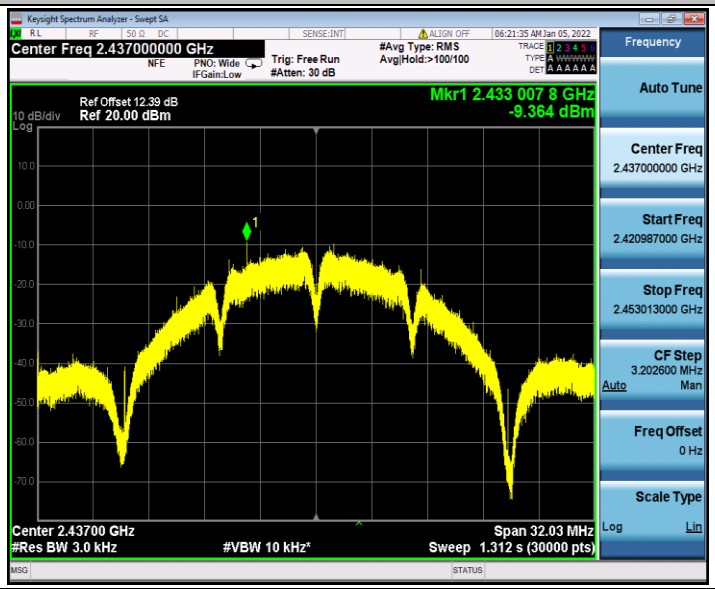
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.56	≤8.00	PASS
		2437	-9.32	≤8.00	PASS
		2462	-9.68	≤8.00	PASS
11G	Ant1	2412	-12.81	≤8.00	PASS
		2437	-12.74	≤8.00	PASS
		2462	-11.75	≤8.00	PASS
11N20SISO	Ant1	2412	-11.26	≤8.00	PASS
		2437	-12.18	≤8.00	PASS
		2462	-11.35	≤8.00	PASS
11N40SISO	Ant1	2422	-13.51	≤8.00	PASS
		2437	-13.51	≤8.00	PASS
		2452	-14.18	≤8.00	PASS
11AC20SISO	Ant1	2412	-11.72	≤8.00	PASS
		2437	-12.93	≤8.00	PASS
		2462	-11.51	≤8.00	PASS
11AC40SISO	Ant1	2422	-14.31	≤8.00	PASS
		2437	-14.08	≤8.00	PASS
		2452	-14.06	≤8.00	PASS

Test Graphs

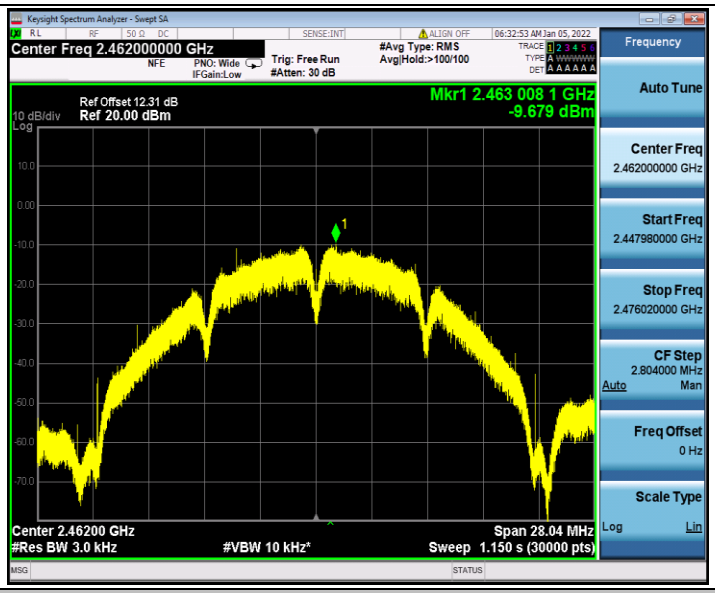
11B_Ant1_2412



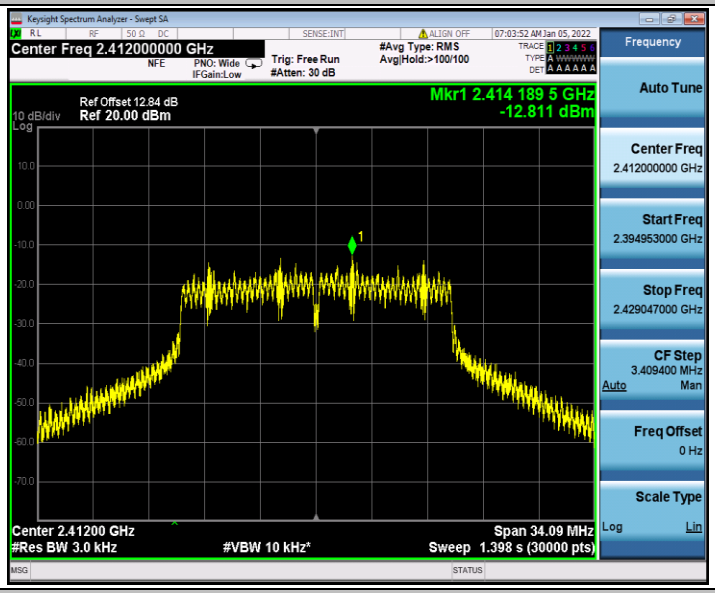
11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



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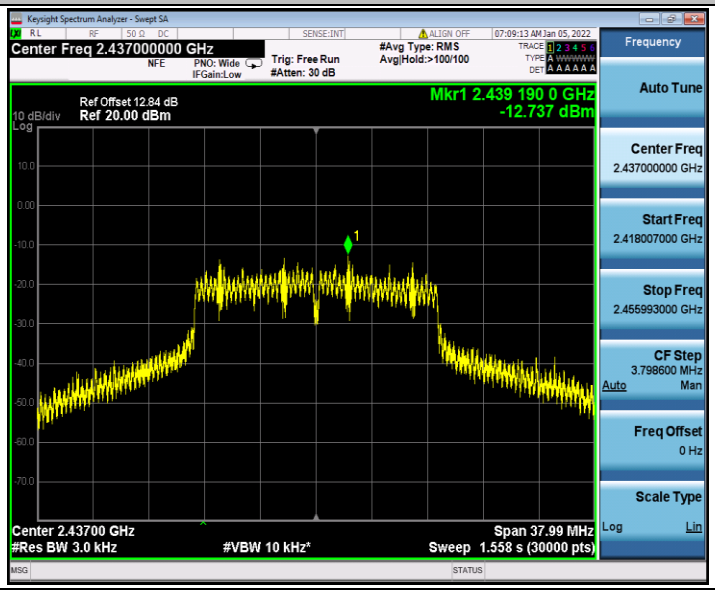

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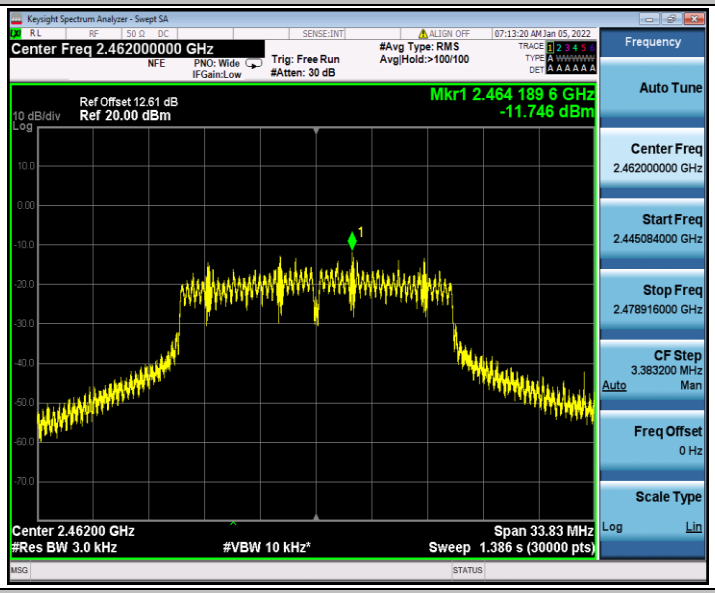

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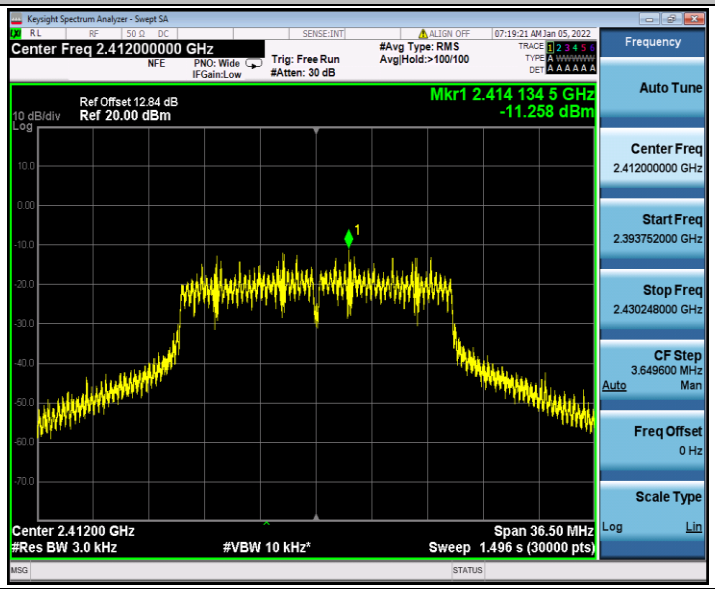

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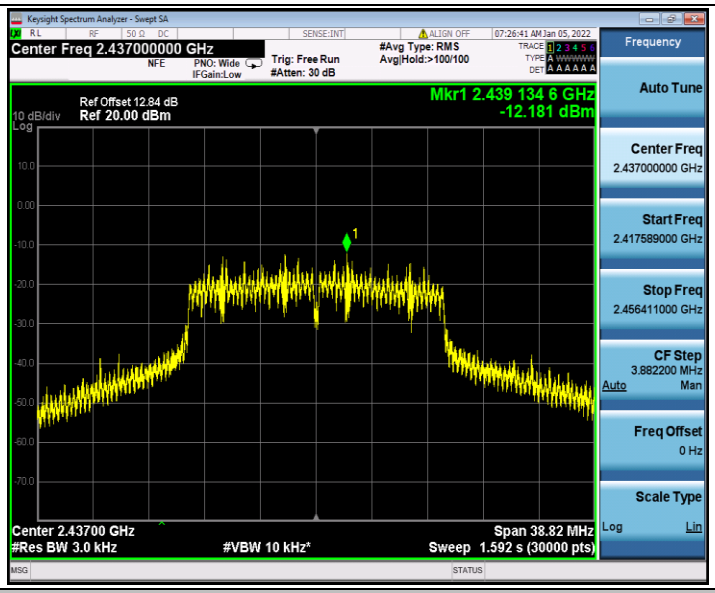

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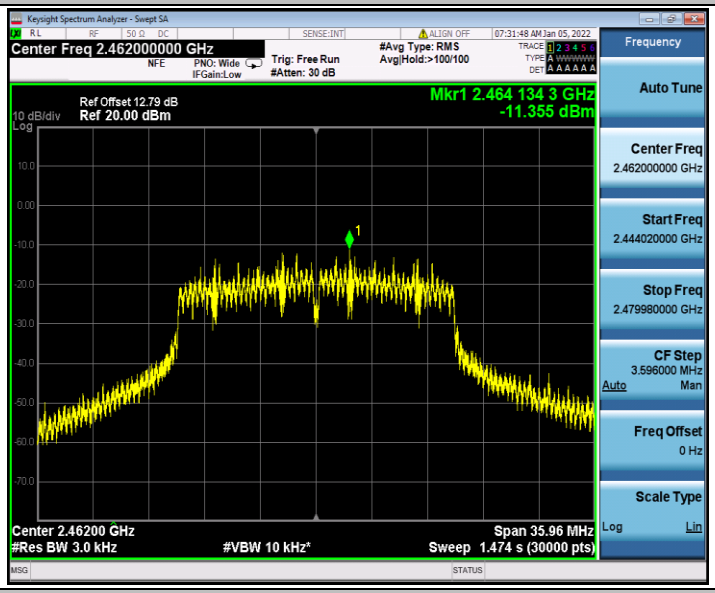
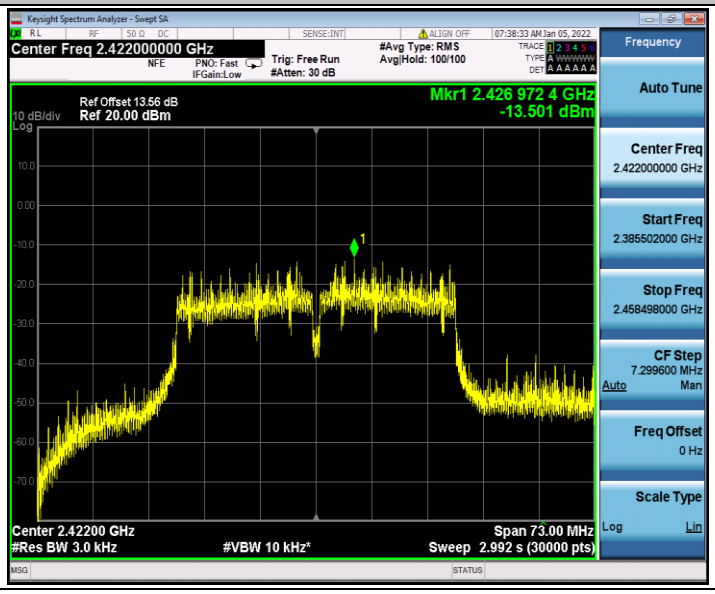


11N40SISO_Ant1_2422



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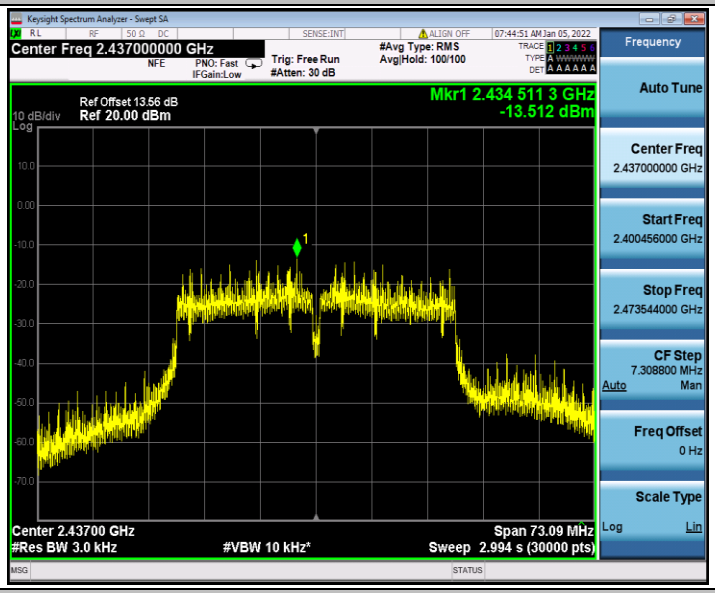

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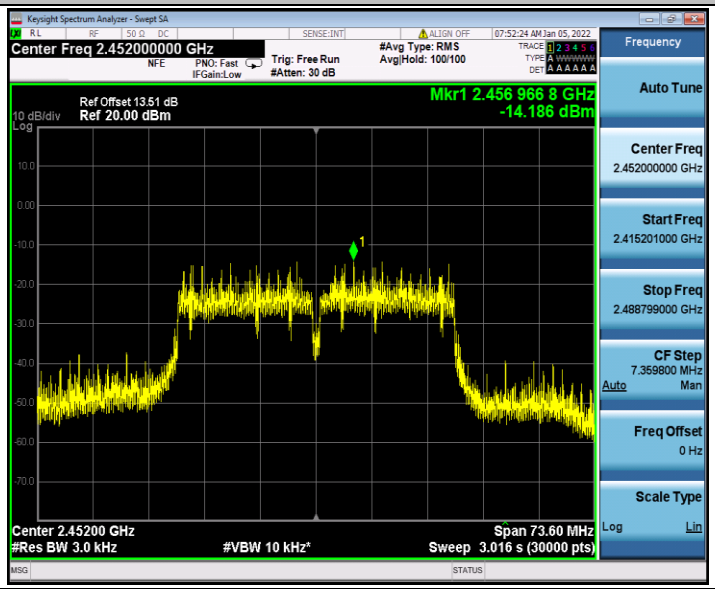

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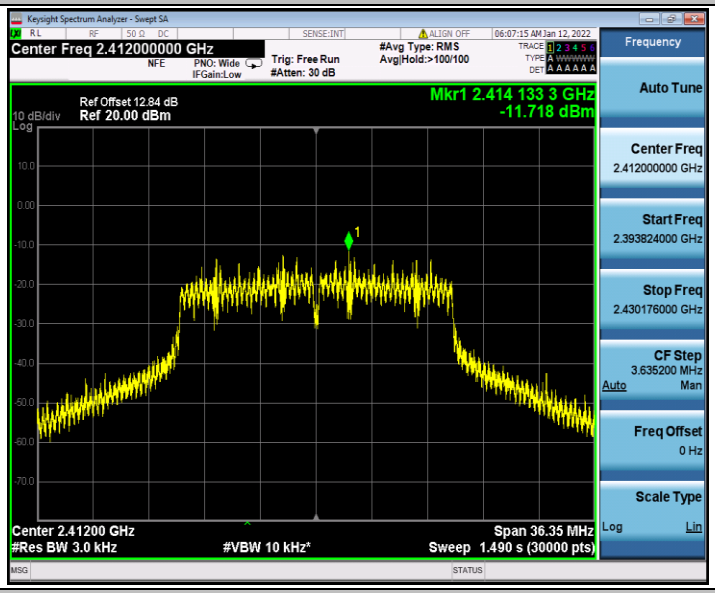

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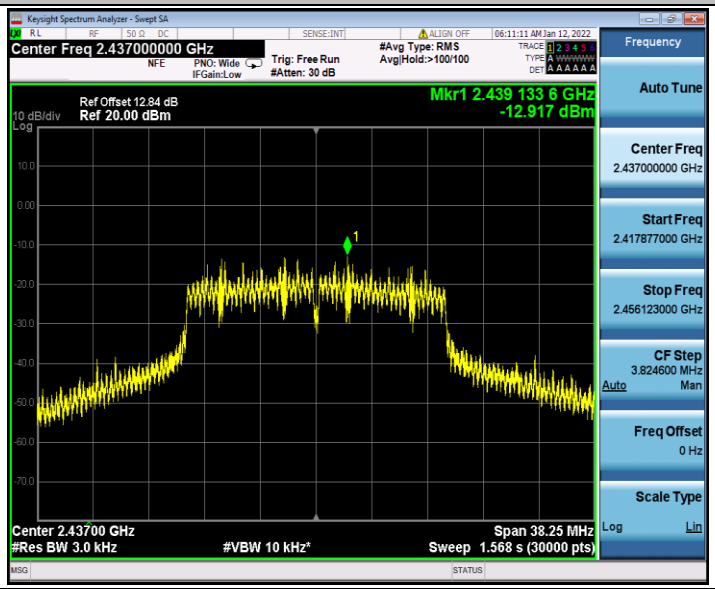

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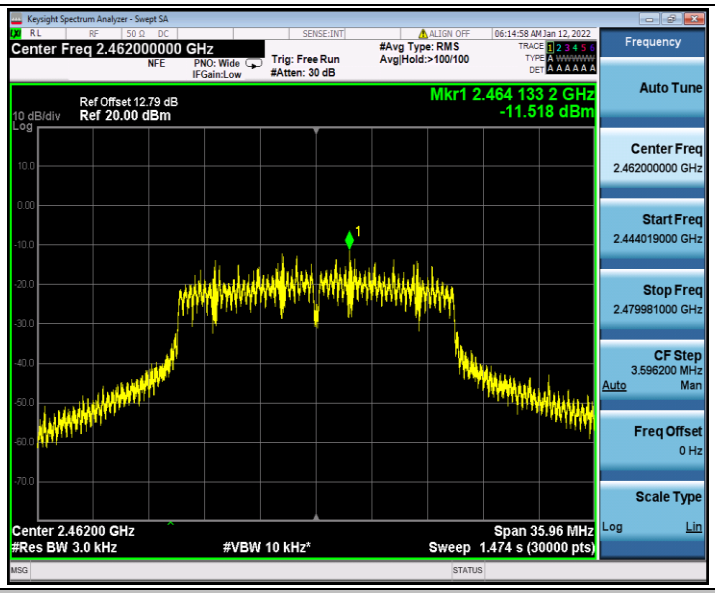

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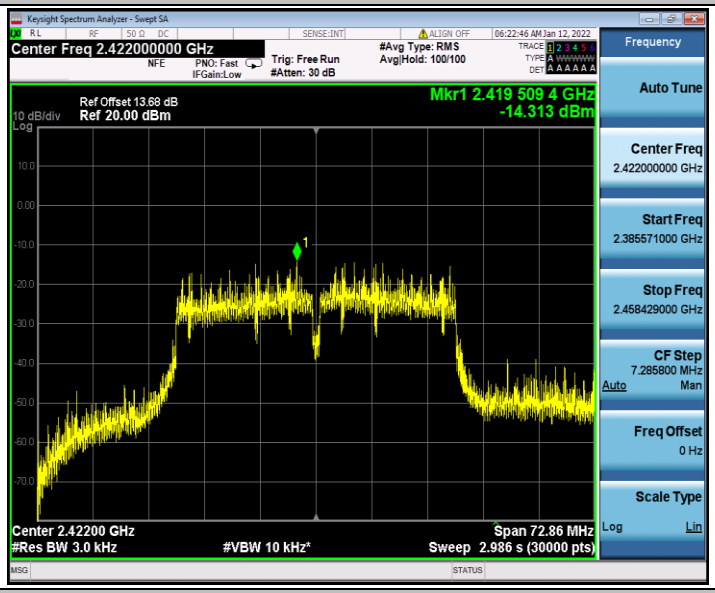

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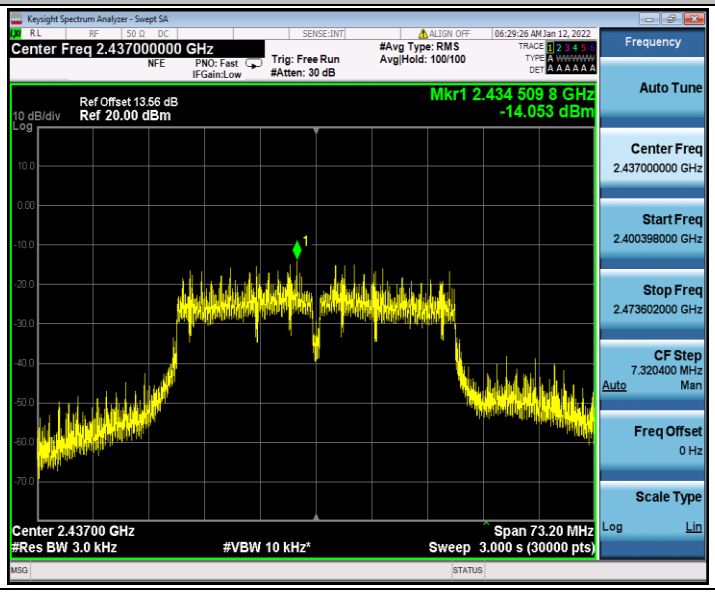

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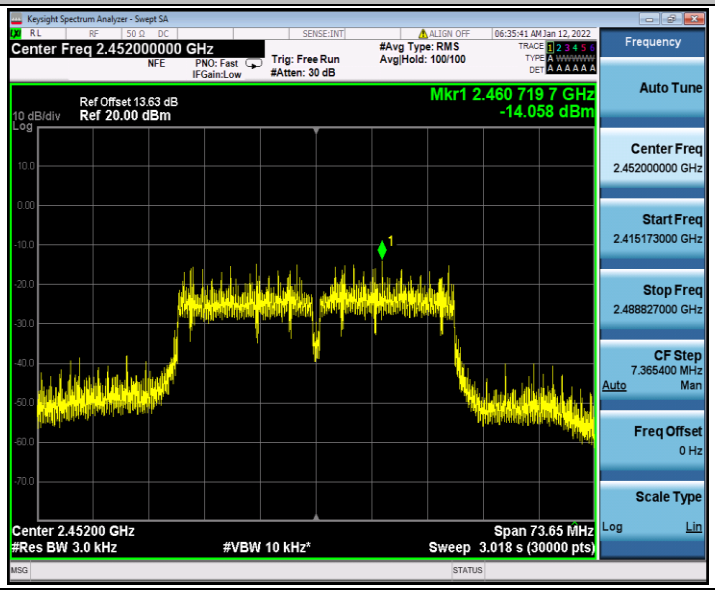


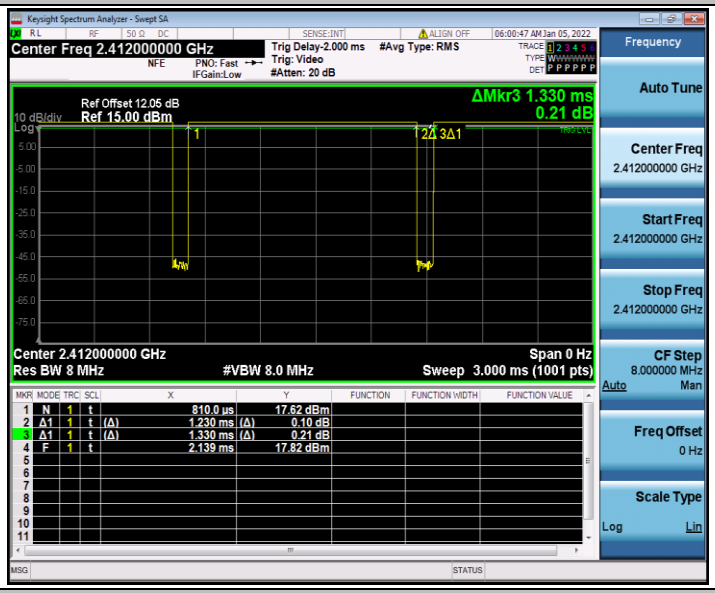
Appendix E: Duty Cycle

Test Result

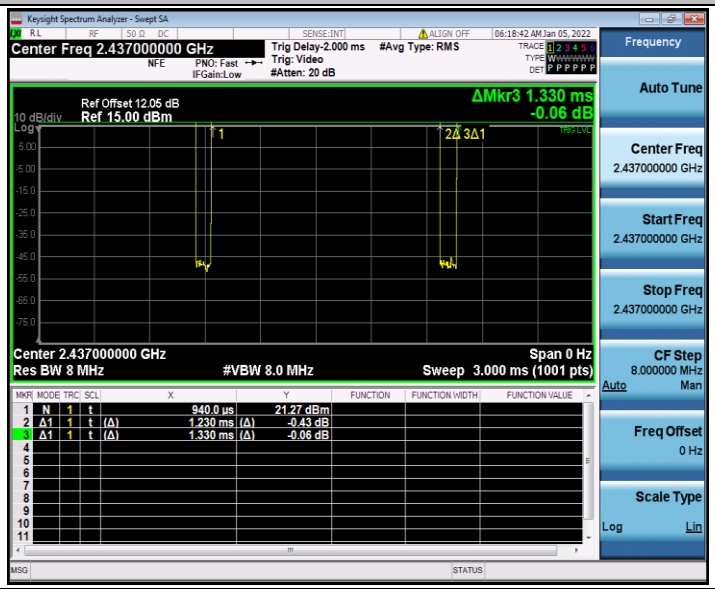
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	1.24	1.33	93.23
		2437	1.23	1.32	93.18
		2462	1.23	1.33	92.48
11G	Ant1	2412	0.20	0.24	83.33
		2437	0.20	0.24	83.33
		2462	0.20	0.23	86.96
11N20SISO	Ant1	2412	0.20	0.24	83.33
		2437	0.20	0.24	83.33
		2462	0.20	0.24	83.33
11N40SISO	Ant1	2422	0.12	0.17	70.59
		2437	0.12	0.17	70.59
		2452	0.12	0.17	70.59
11AC20SISO	Ant1	2412	0.20	0.24	83.33
		2437	0.20	0.24	83.33
		2462	0.20	0.24	83.33
11AC40SISO	Ant1	2422	0.11	0.16	68.75
		2437	0.12	0.17	70.59
		2452	0.11	0.16	68.75

Test Graphs

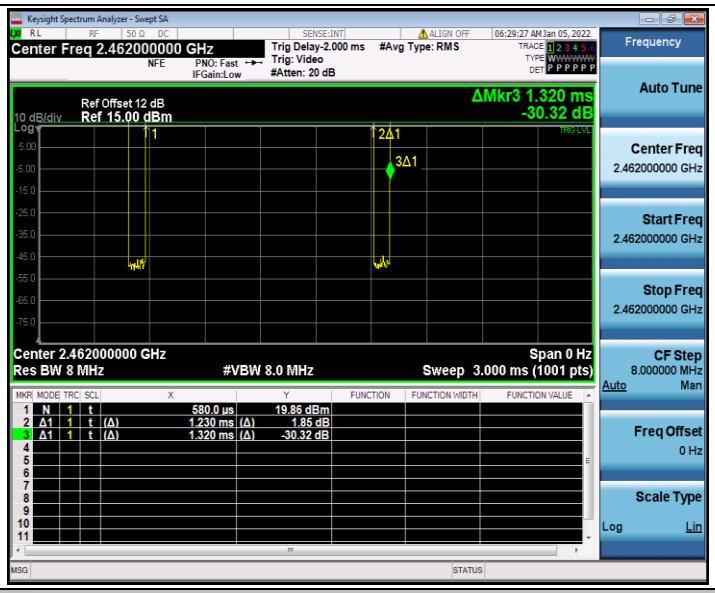
11B_Ant1_2412



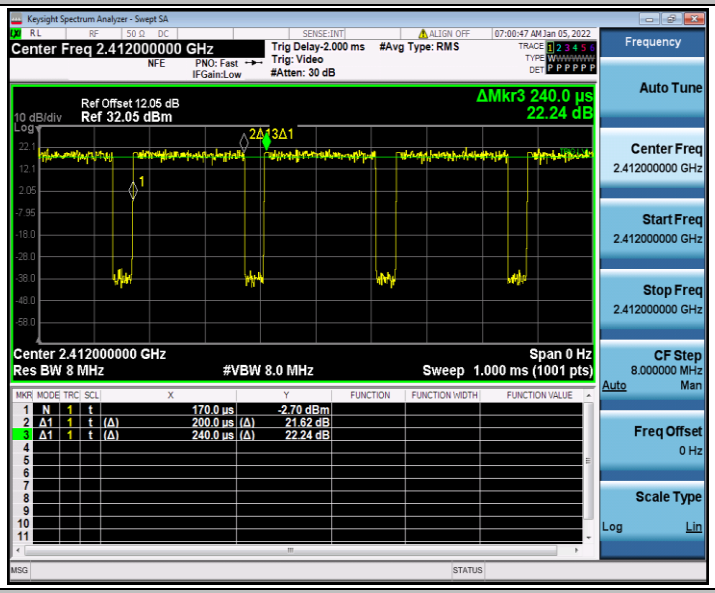
11B_Ant1_2437



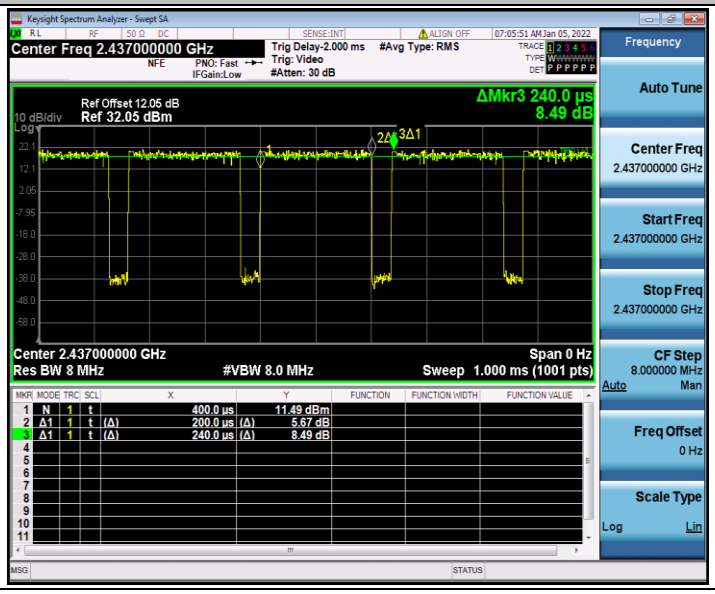
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



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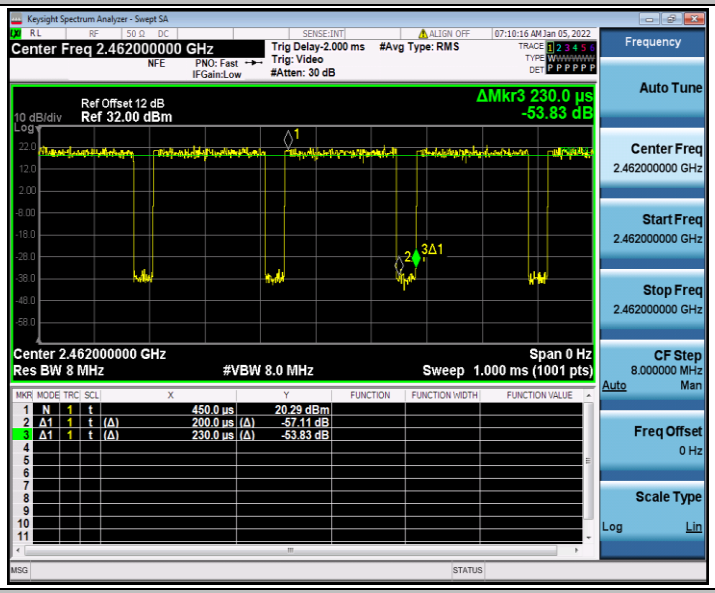
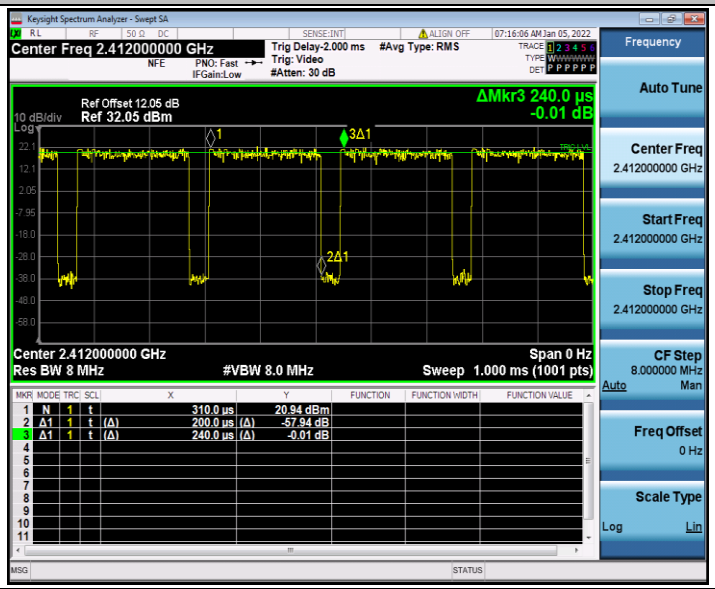


11N20SISO_Ant1_2412



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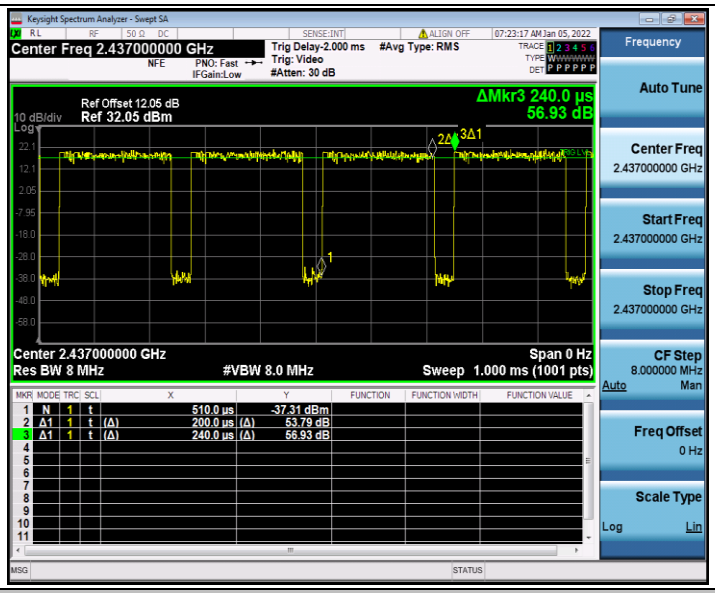

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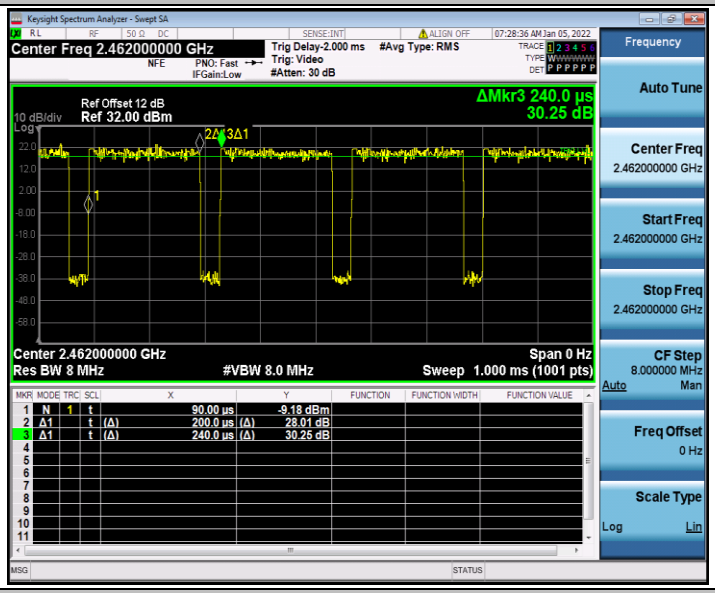

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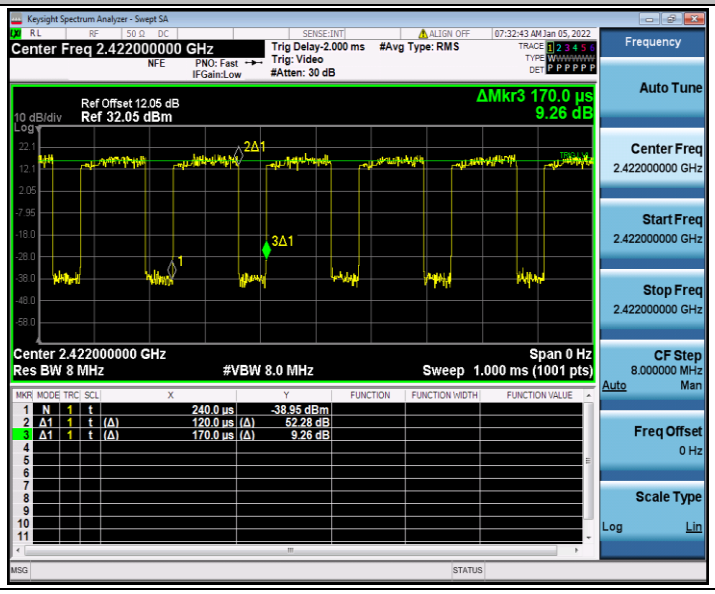

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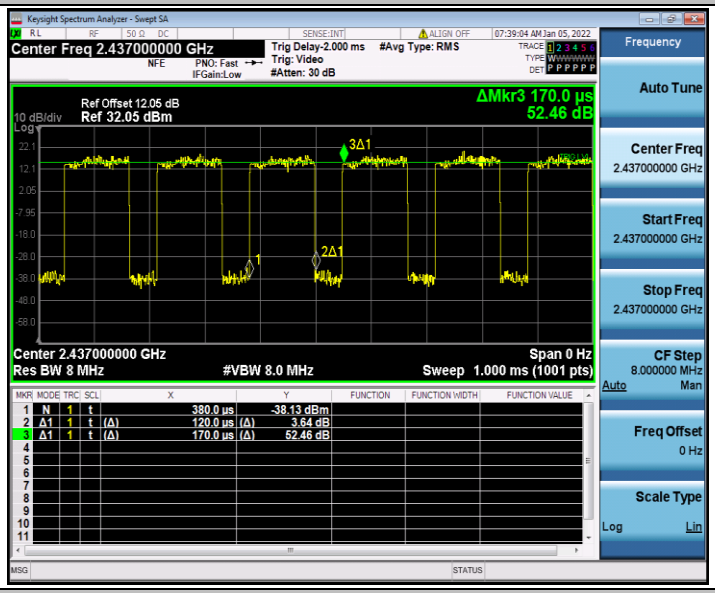

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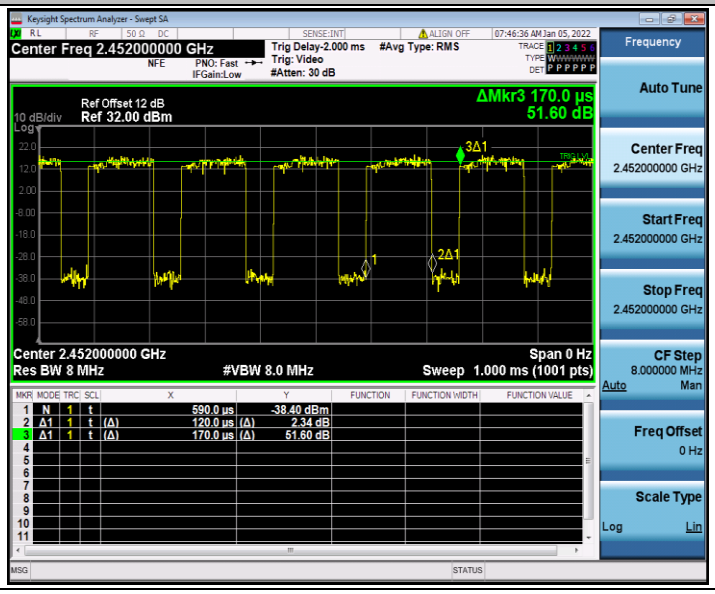

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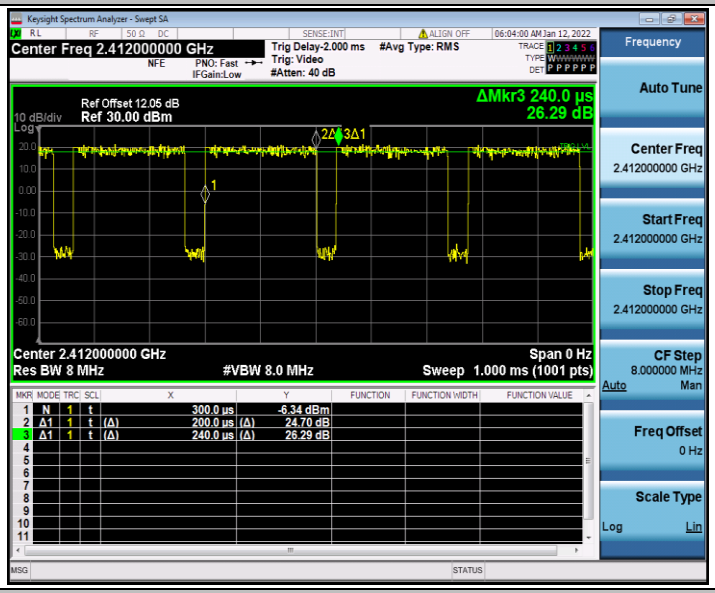

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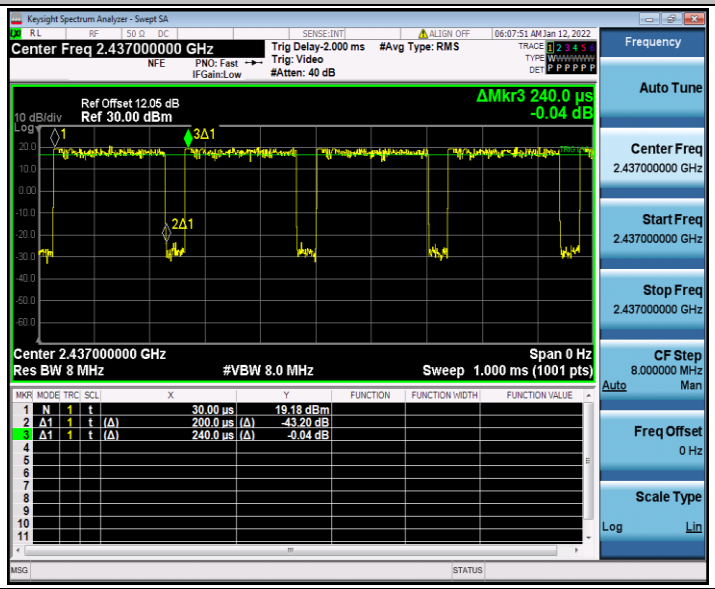

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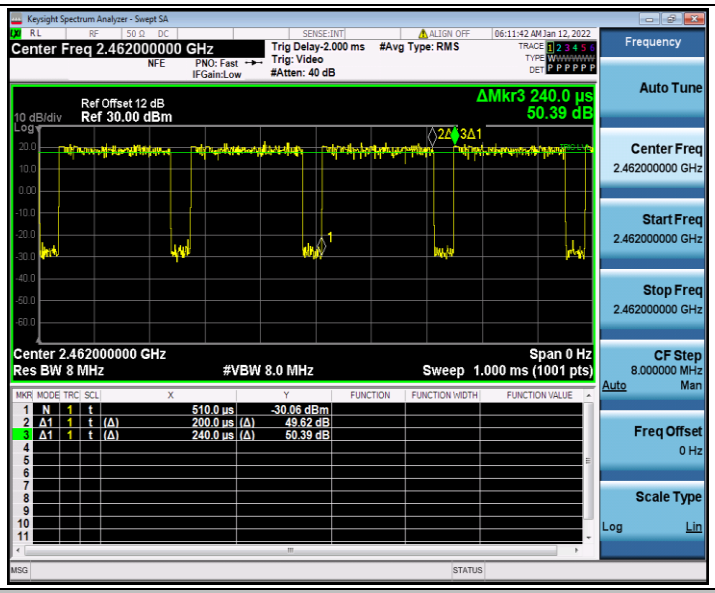

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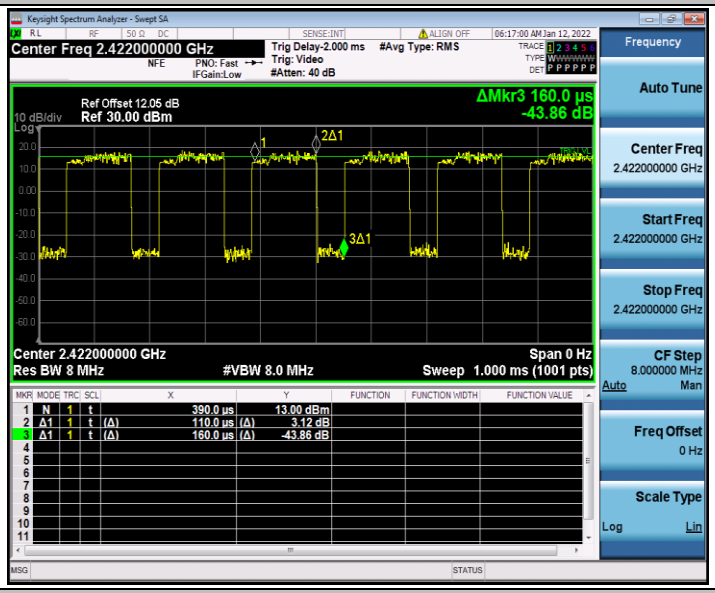

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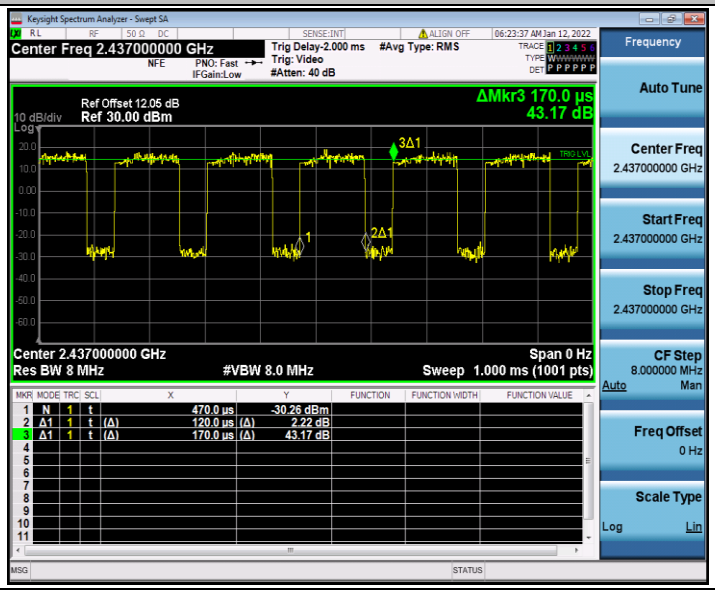
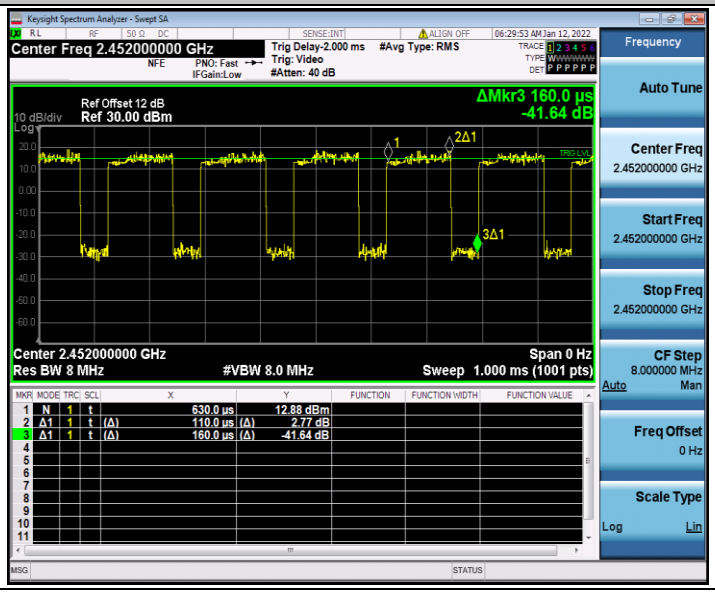
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