

RF Test Data for SRD (Conducted Measurement)

Product Name: Wireless Vertical Ergonomic Mouse

Trade Mark: N/A

Test Model: IWG-SGM01

FCC ID: 2A5DLSG00002

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

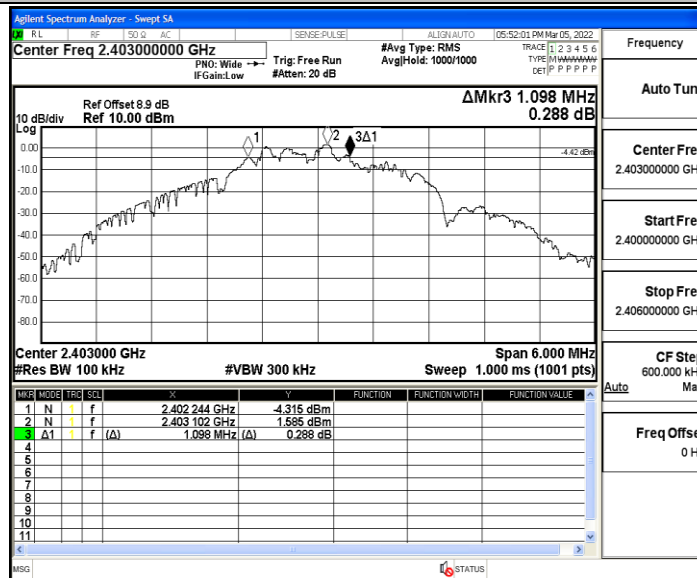
Appendix A: DTS Bandwidth

Test Result

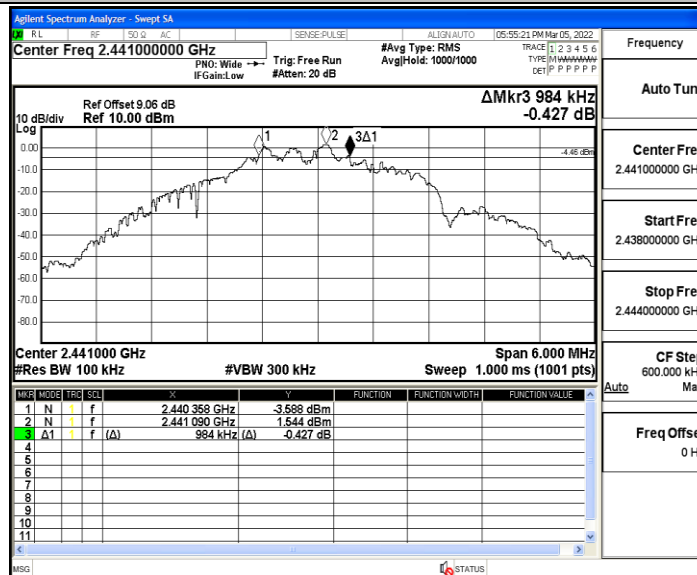
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD	Ant1	2403	1.098	2402.244	2403.342	0.5	PASS
		2441	0.984	2440.358	2441.342	0.5	PASS
		2480	1.044	2479.256	2480.300	0.5	PASS

Test Graphs

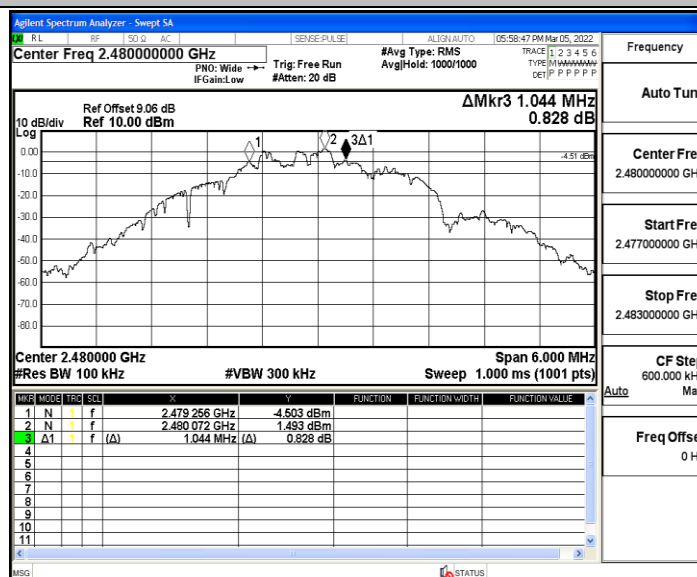
SRD_Ant1_2403



SRD_Ant1_2441



SRD_Ant1_2480

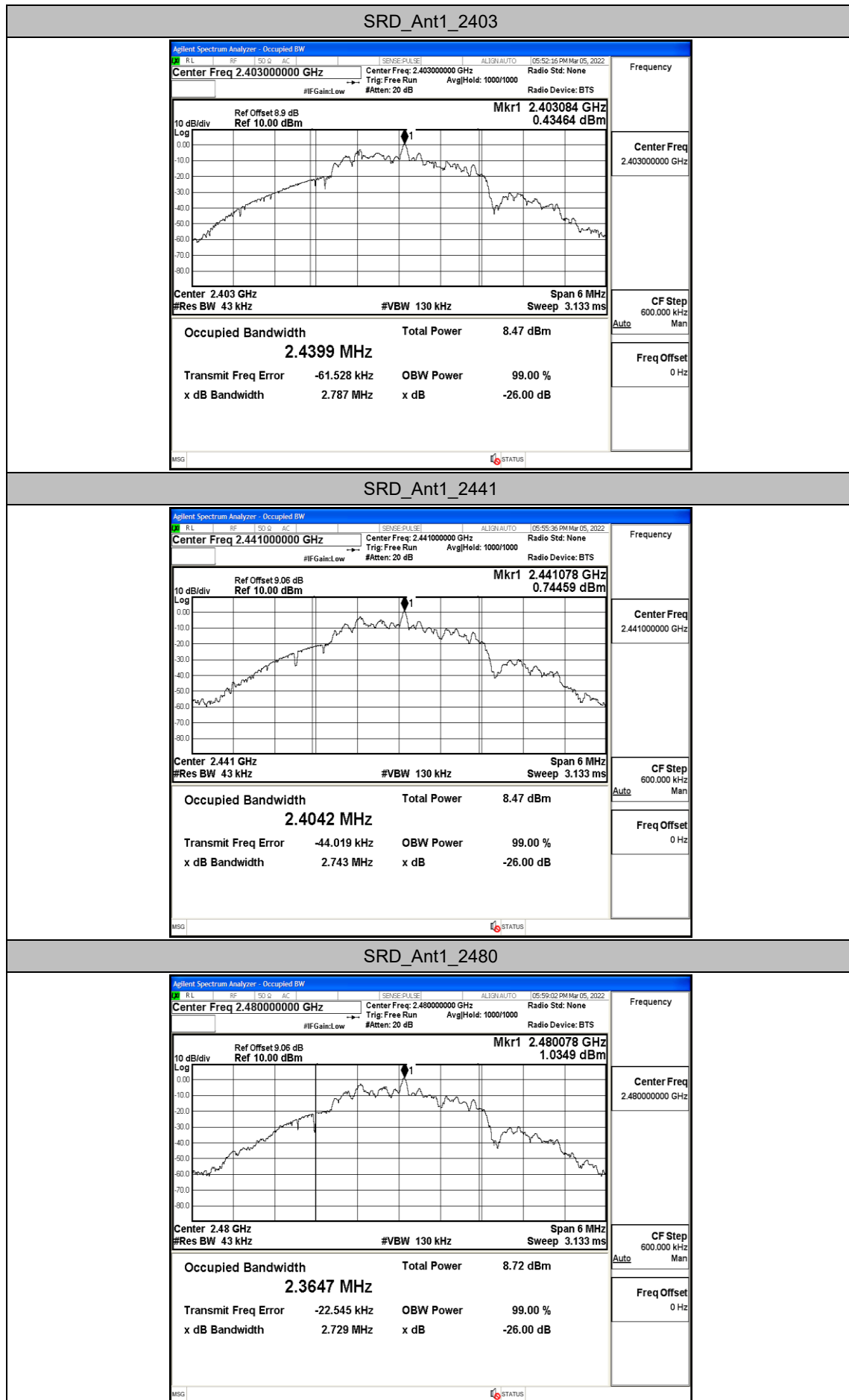


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD	Ant1	2403	2.4399	2401.719	2404.158	---	---
		2441	2.4042	2439.754	2442.158	---	---
		2480	2.3647	2478.795	2481.160	---	---

Test Graphs

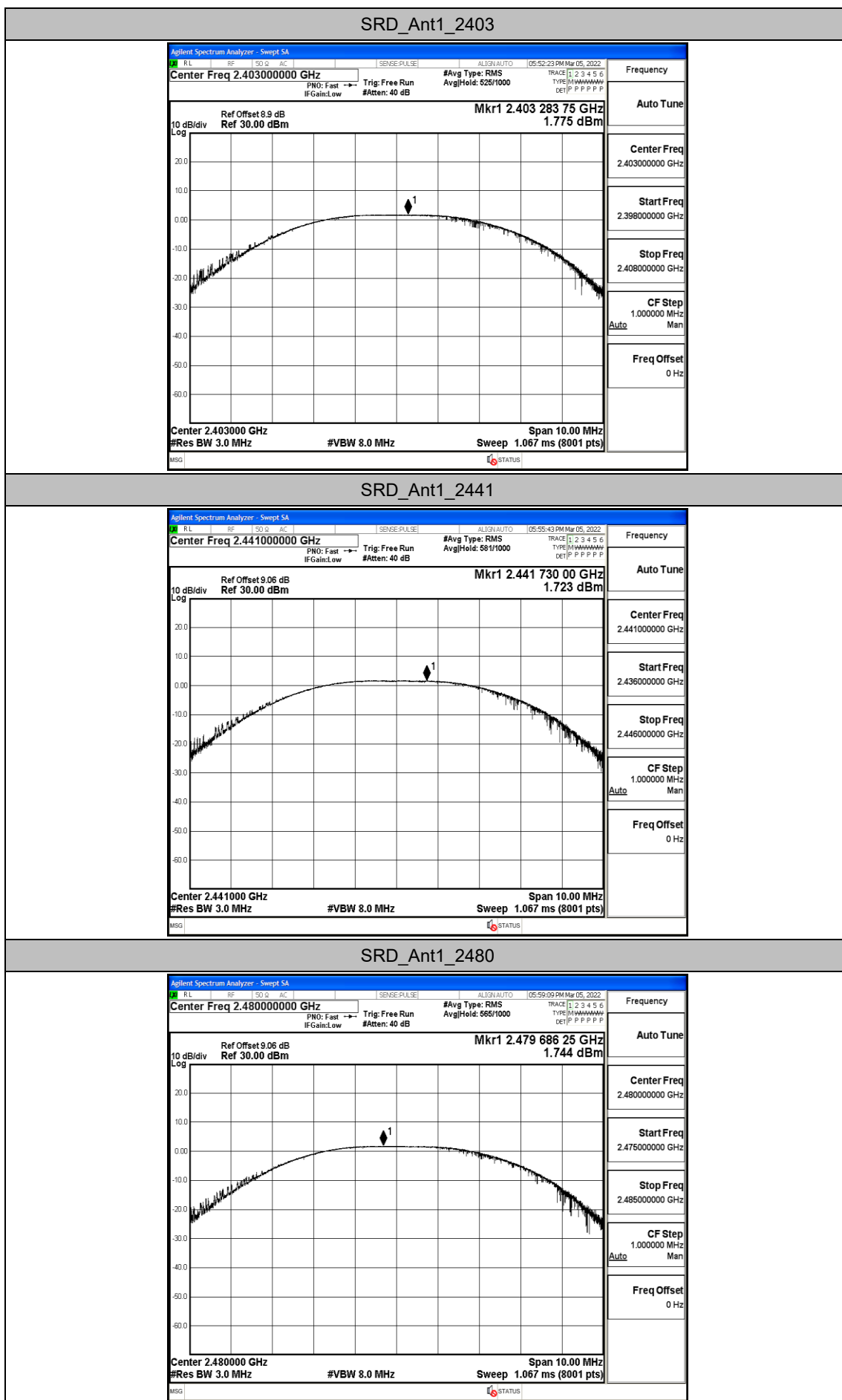


Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	2403	1.78	≤30	PASS
		2441	1.72	≤30	PASS
		2480	1.74	≤30	PASS

Test Graphs

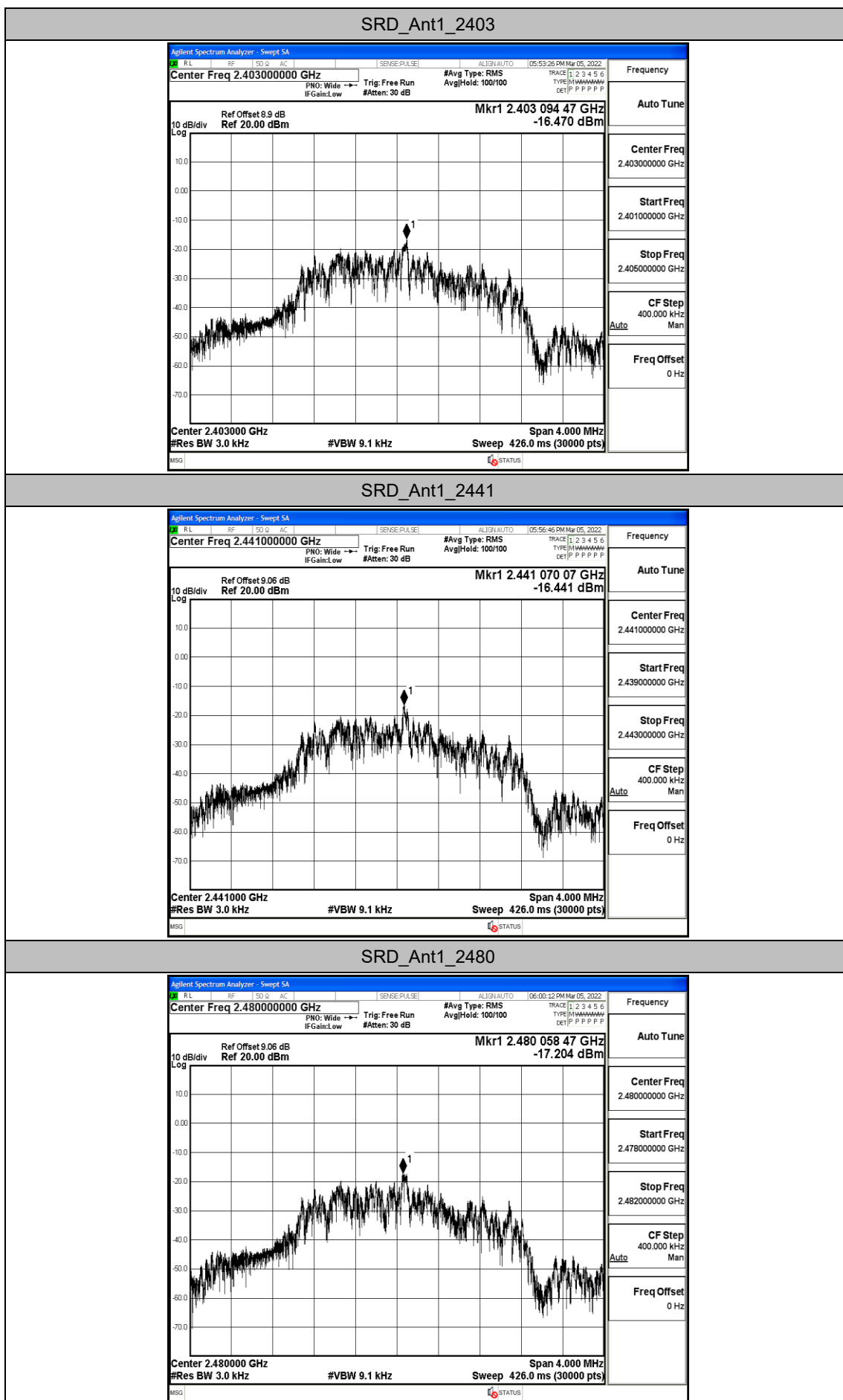


Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
SRD	Ant1	2403	-16.47	≤8.00	PASS
		2441	-16.44	≤8.00	PASS
		2480	-17.2	≤8.00	PASS

Test Graphs

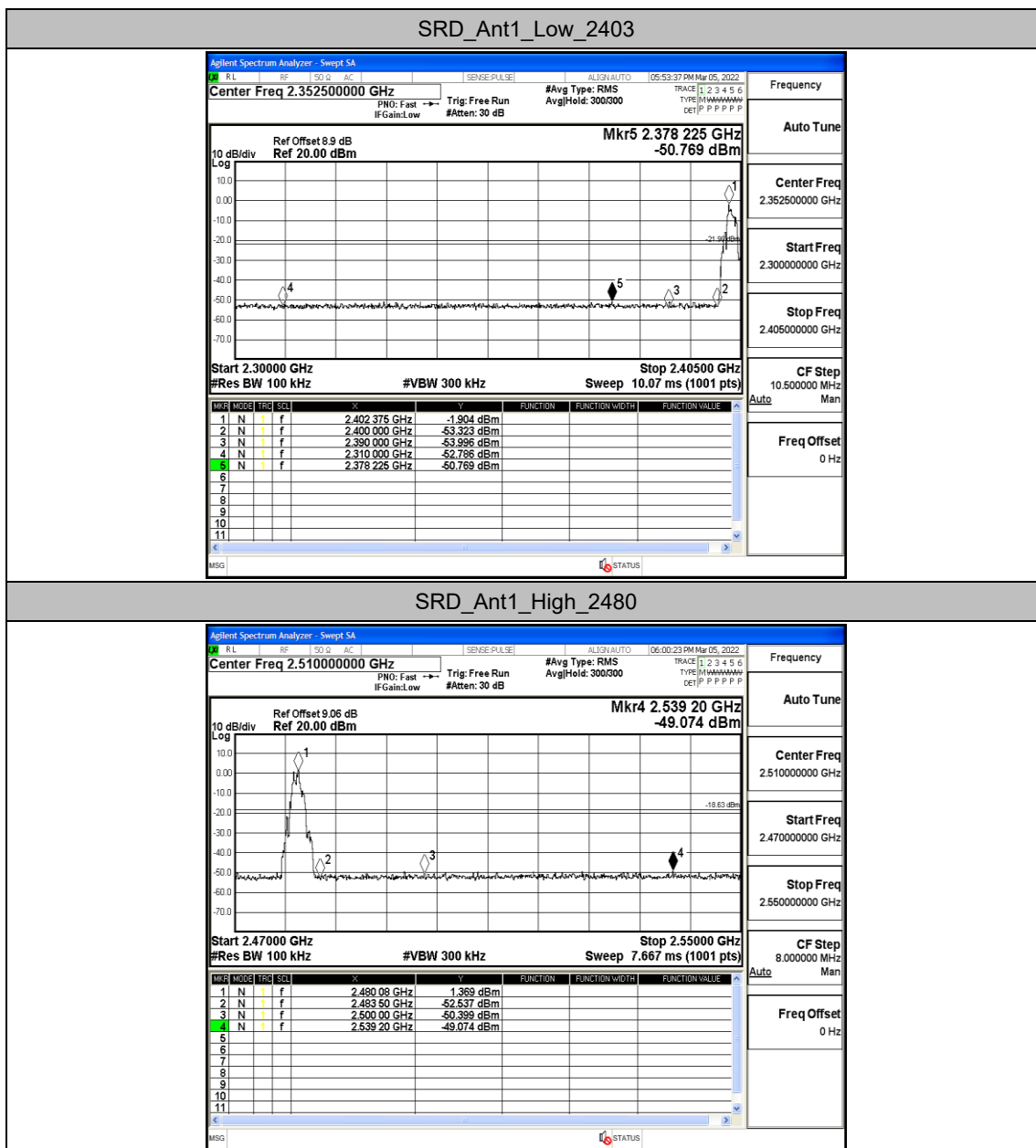


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	Low	2403	-1.90	-50.77	≤ -21.9	PASS
		High	2480	1.37	-49.07	≤ -18.63	PASS

Test Graphs

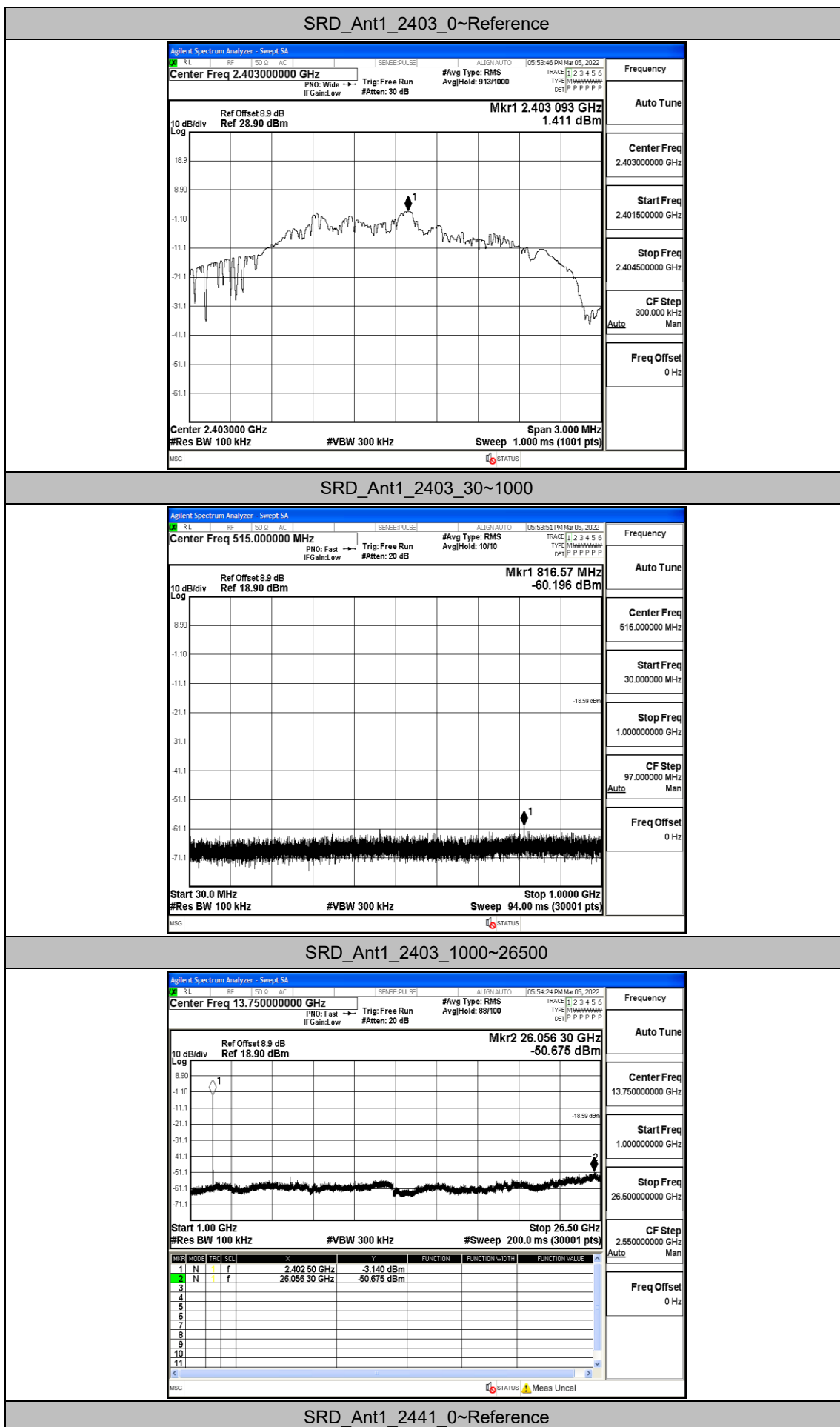


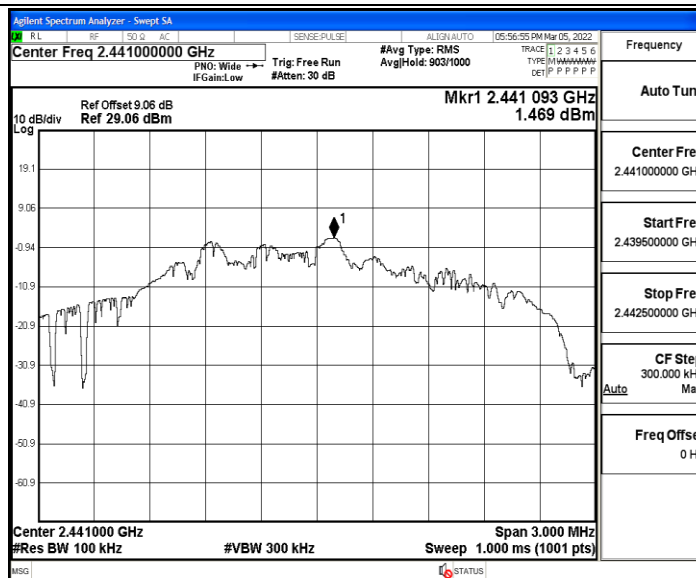
Appendix F: Conducted Spurious Emission

Test Result

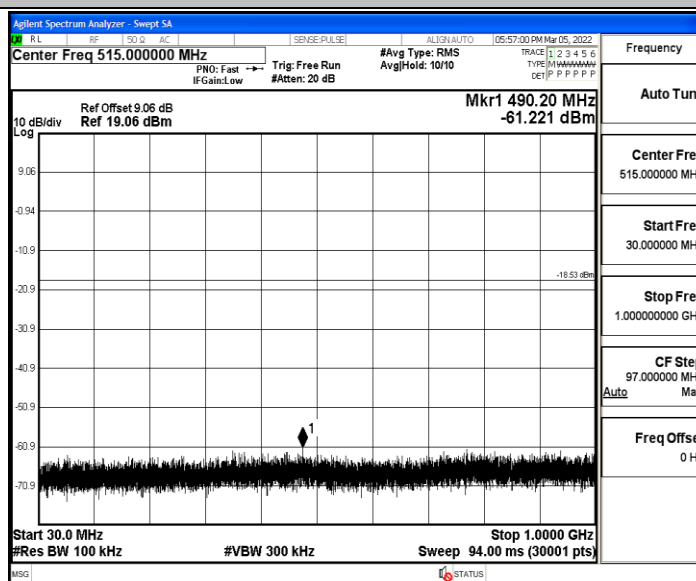
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	2403	Reference	1.41	1.41	---	PASS
			30~1000	1.41	-60.2	≤-18.59	PASS
			1000~26500	1.41	-50.68	≤-18.59	PASS
		2441	Reference	1.47	1.47	---	PASS
			30~1000	1.47	-61.22	≤-18.53	PASS
			1000~26500	1.47	-32.15	≤-18.53	PASS
		2480	Reference	1.04	1.04	---	PASS
			30~1000	1.04	-61	≤-18.96	PASS
			1000~26500	1.04	-42.95	≤-18.96	PASS

Test Graphs

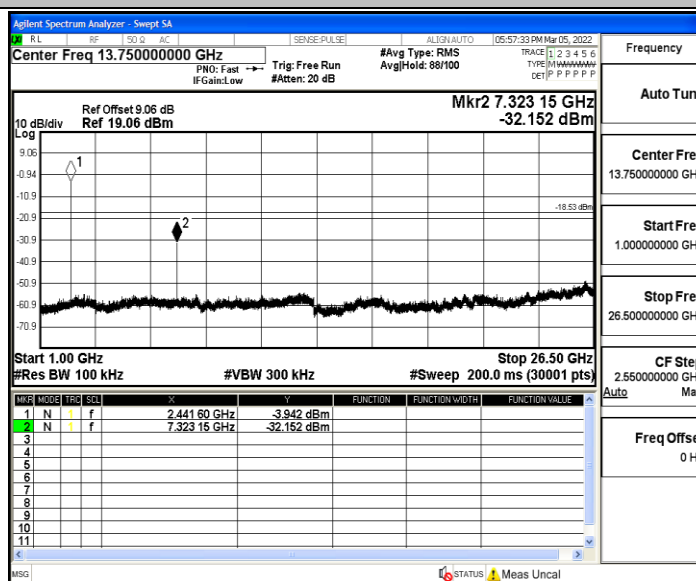




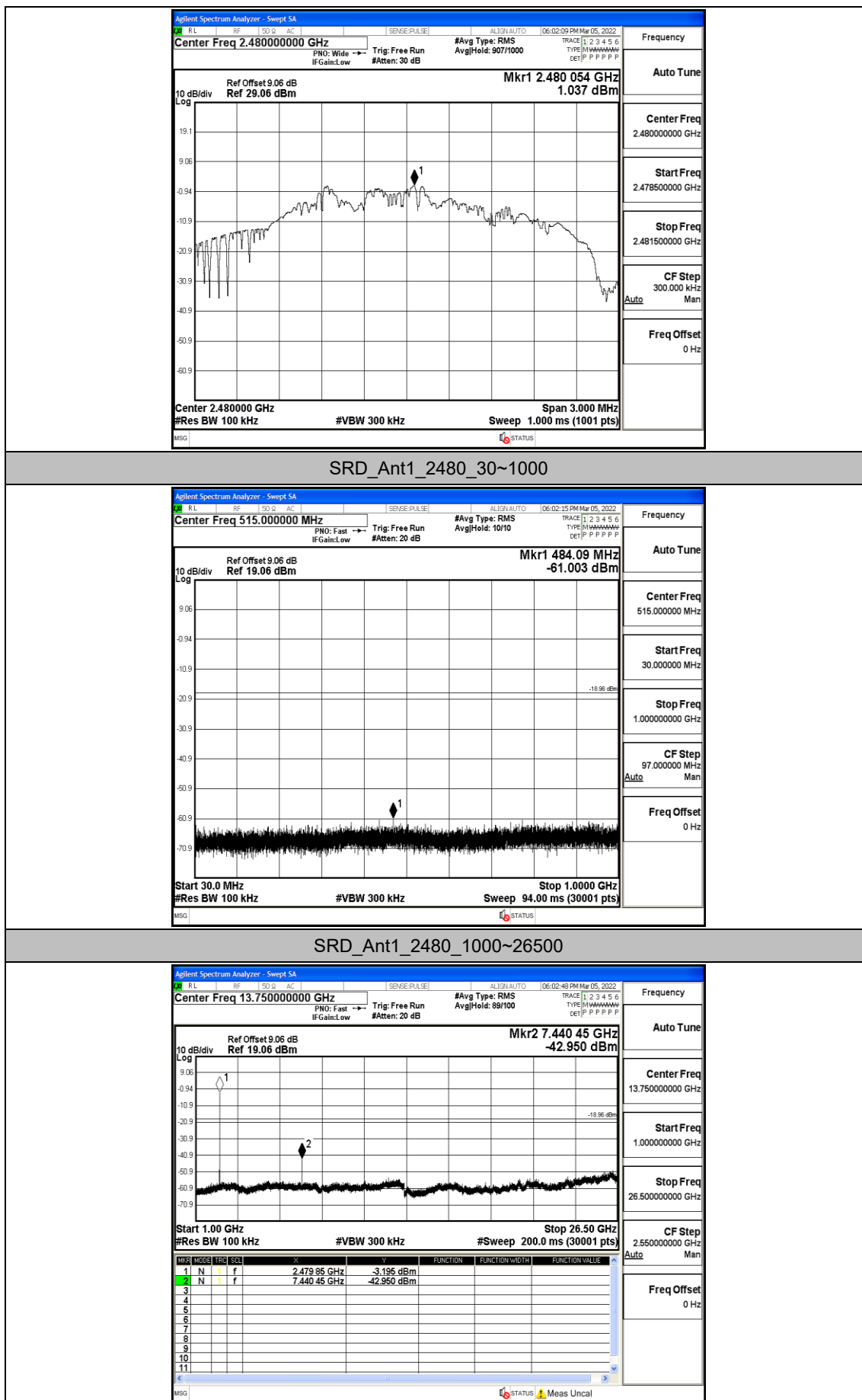
SRD_Ant1_2441_30~1000



SRD_Ant1_2441_1000~26500



SRD_Ant1_2480_0~Reference



Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T
SRD	Ant1	2403	0.13	4.08	3.19	7.69
		2441	0.13	3.94	3.30	7.69
		2480	0.12	3.93	3.05	8.33

SRD_Ant1_2403

Center Freq 2.403000000 GHz
Ref Offset 8.9 dB
Ref 20.00 dBm
ΔMkr3 4.080 ms
2.73 dB

MkP	MODE	TRIG	SCN	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	t		150.0 μs	-36.94 dBm			
2	Δ1	t	(Δ)	130.0 μs (Δ)	14.10 dB			
3	Δ1	t	(Δ)	4.080 ms (Δ)	2.73 dB			

Center 2.403000000 GHz
Res BW 8 MHz
#VBW 8.0 MHz
Sweep 10.13 ms (8000 pts)

Frequency
Auto Tune
Center Freq 2.403000000 GHz
Start Freq 2.403000000 GHz
Stop Freq 2.403000000 GHz
CF Step 8.000000 MHz
Freq Offset 0 Hz

SRD_Ant1_2441

Center Freq 2.441000000 GHz
Ref Offset 9.06 dB
Ref 20.00 dBm
ΔMkr3 3.940 ms
23.82 dB

MkP	MODE	TRIG	SCN	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	t		190.0 μs	-24.83 dBm			
2	Δ1	t	(Δ)	130.0 μs (Δ)	-13.44 dB			
3	Δ1	t	(Δ)	3.940 ms (Δ)	23.82 dB			

Center 2.441000000 GHz
Res BW 8 MHz
#VBW 8.0 MHz
Sweep 10.13 ms (8000 pts)

Frequency
Auto Tune
Center Freq 2.441000000 GHz
Start Freq 2.441000000 GHz
Stop Freq 2.441000000 GHz
CF Step 8.000000 MHz
Freq Offset 0 Hz

SRD_Ant1_2480

Center Freq 2.480000000 GHz
Ref Offset 9.06 dB
Ref 20.00 dBm
ΔMkr3 3.930 ms
-14.53 dB

MkP	MODE	TRIG	SCN	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	t		4.130 ms	-2.23 dBm			
2	Δ1	t	(Δ)	120.0 μs (Δ)	3.81 dB			
3	Δ1	t	(Δ)	3.930 ms (Δ)	-14.53 dB			

Center 2.480000000 GHz
Res BW 8 MHz
#VBW 8.0 MHz
Sweep 10.13 ms (8000 pts)

Frequency
Auto Tune
Center Freq 2.480000000 GHz
Start Freq 2.480000000 GHz
Stop Freq 2.480000000 GHz
CF Step 8.000000 MHz
Freq Offset 0 Hz