

RF Test Data for SRD (Conducted Measurement)

Product Name: Acceptor

Trade Mark: N/A

Test Model: ISJ-WJK70FGT

FCC ID: 2A5DLWJ00009

Environmental Conditions

Temperature:	22.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

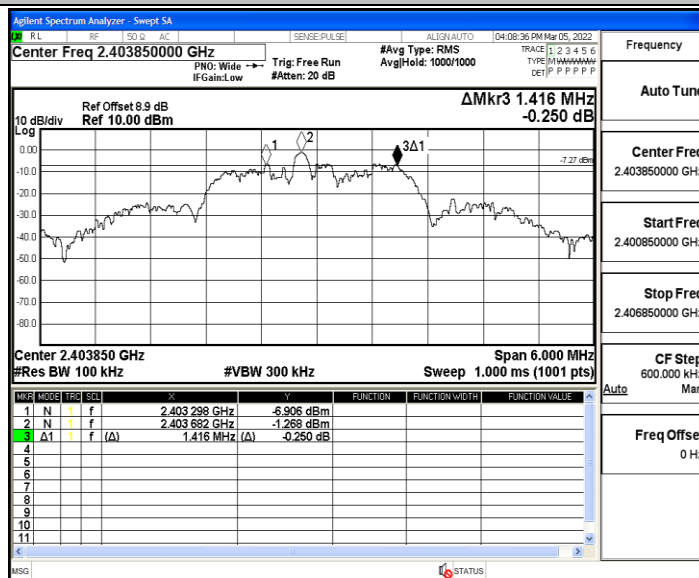
Appendix A: DTS Bandwidth

Test Result

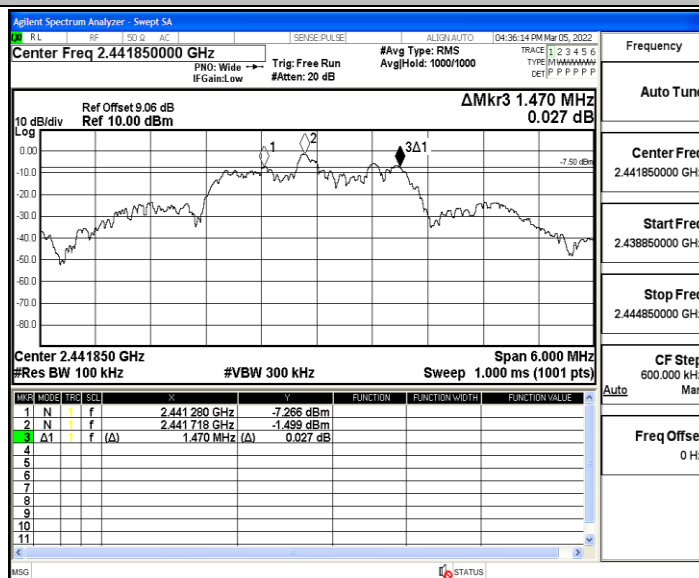
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD	Ant1	2403.85	1.416	2403.298	2404.714	0.5	PASS
		2441.85	1.470	2441.280	2442.750	0.5	PASS
		2479.85	1.698	2479.070	2480.768	0.5	PASS

Test Graphs

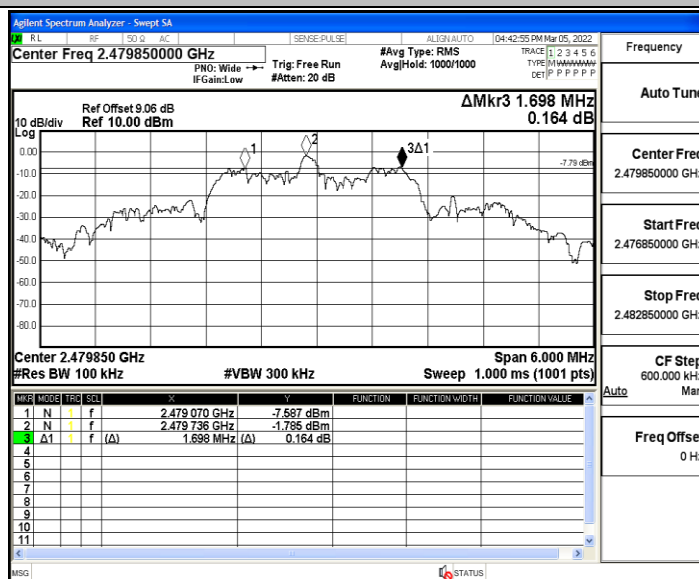
SRD_Ant1_2403.85



SRD_Ant1_2441.85



SRD_Ant1_2479.85

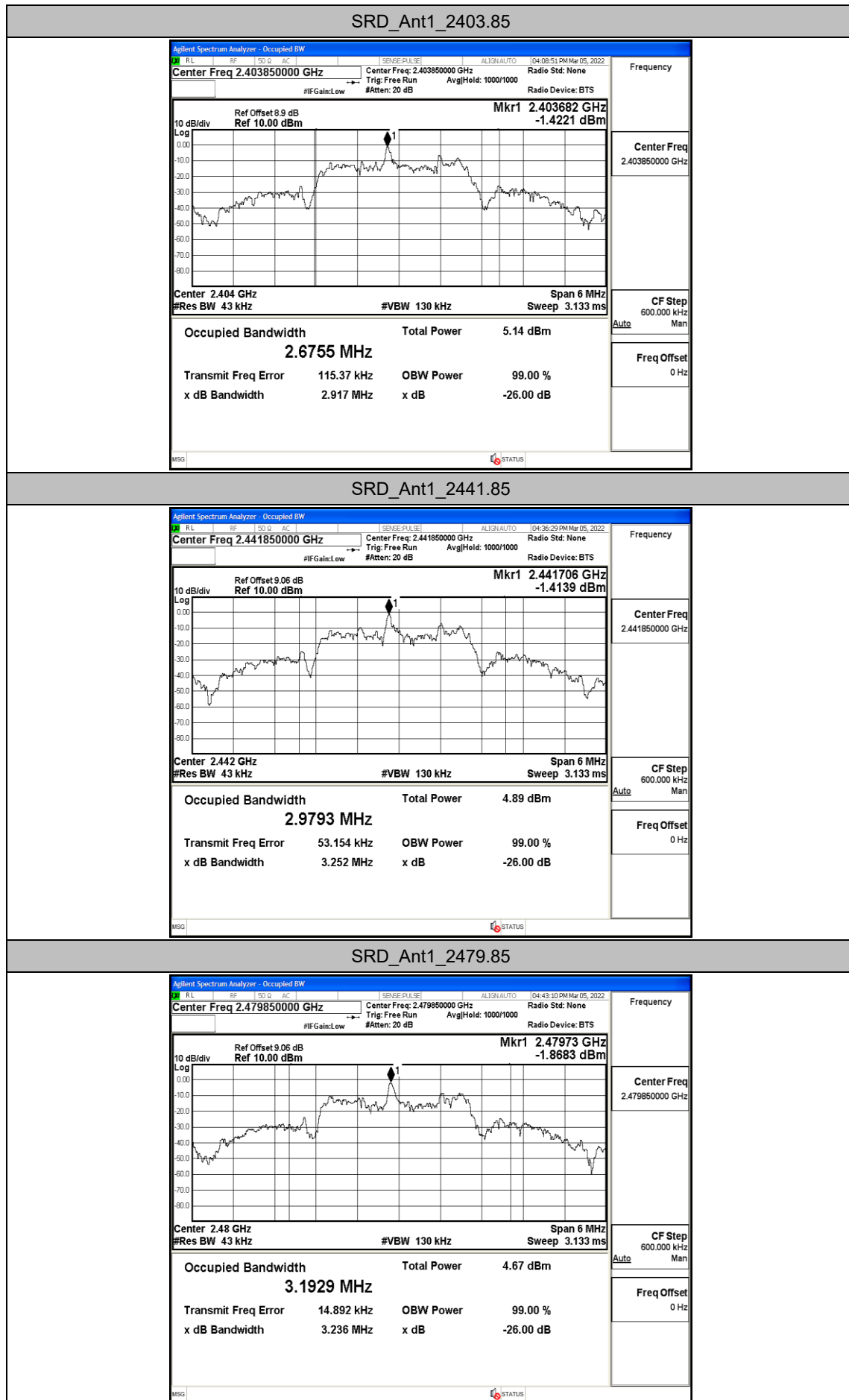


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD	Ant1	2403.85	2.6755	2402.628	2405.303	---	---
		2441.85	2.9793	2440.414	2443.393	---	---
		2479.85	3.1929	2478.268	2481.461	---	---

Test Graphs

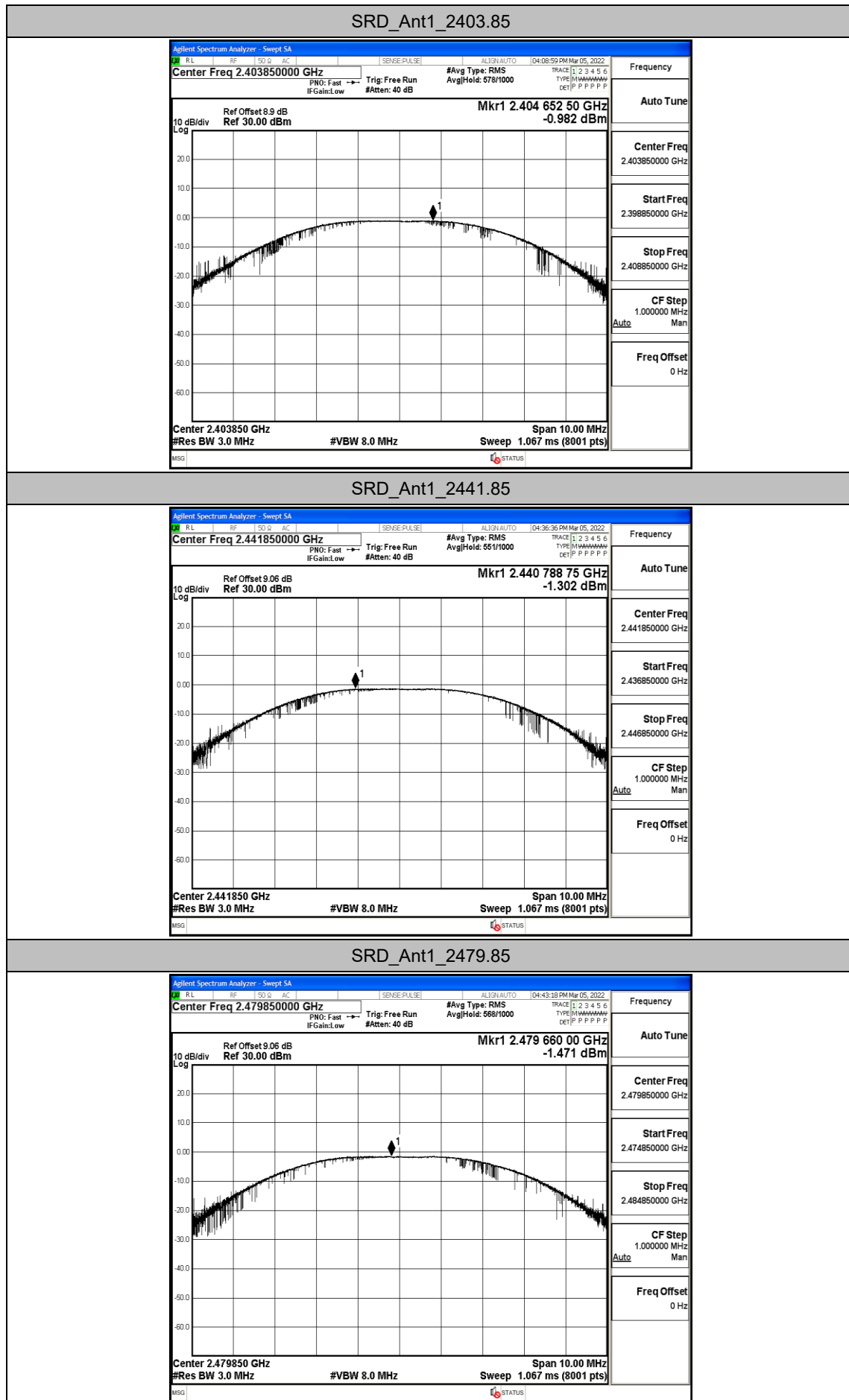


Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	2403.85	-0.98	≤30	PASS
		2441.85	-1.3	≤30	PASS
		2479.85	-1.47	≤30	PASS

Test Graphs



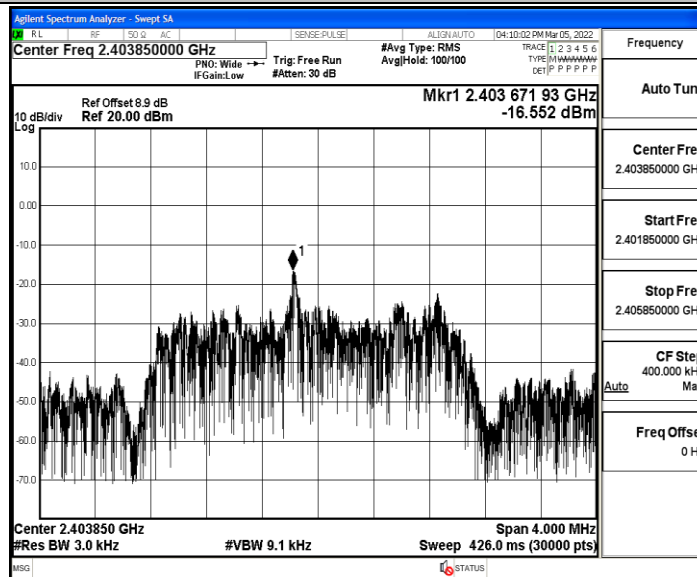
Appendix D: Maximum power spectral density

Test Result

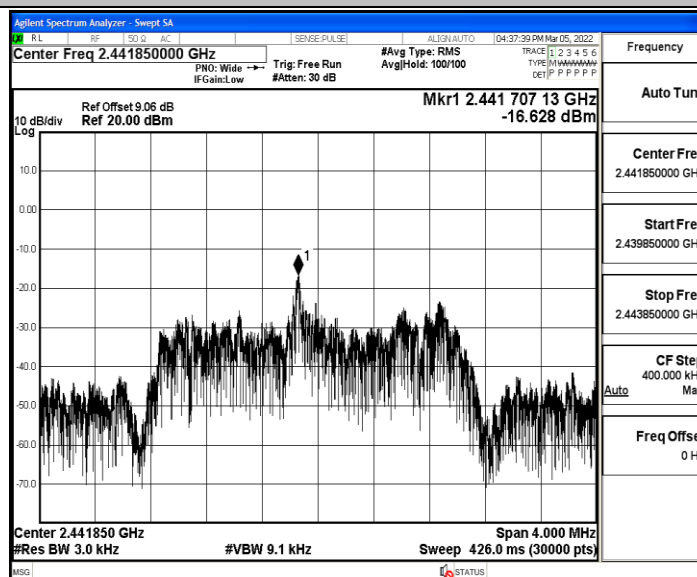
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
SRD	Ant1	2403.85	-16.55	≤8.00	PASS
		2441.85	-16.63	≤8.00	PASS
		2479.85	-16.31	≤8.00	PASS

Test Graphs

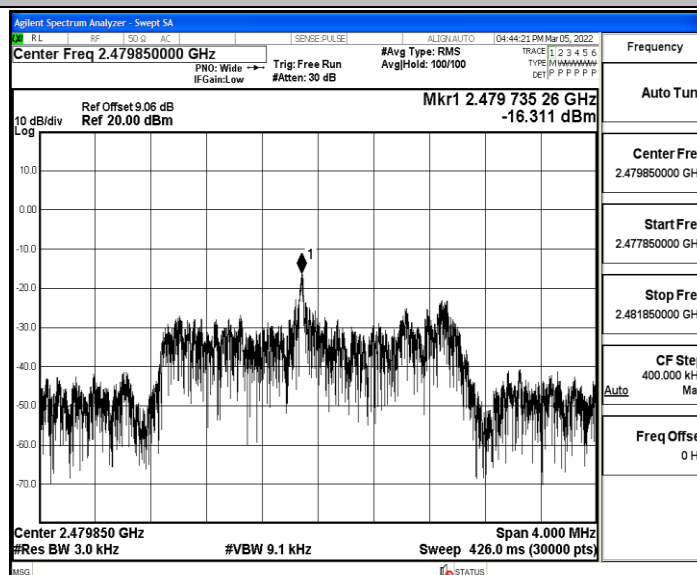
SRD_Ant1_2403.85



SRD_Ant1_2441.85



SRD_Ant1_2479.85



Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	Low	2403.85	-4.88	-40.5	≤ -24.88	PASS
		High	2479.85	-2.94	-38.79	≤ -22.94	PASS

SRD_Ant1_Low_2403.85

Agilent Spectrum Analyzer - Sweep SA

Center Freq 2.352500000 GHz

Ref Offset 9.9 dB
Ref 20.00 dBm

Mkr5 2.399 960 GHz
-40.498 dBm

Start 2.30000 GHz
#Res BW 100 kHz

#VBW 300 kHz

Stop 2.40500 GHz
Sweep 10.07 ms (1001 pts)

Mkr	Mode	Freq	Power	Function	Function Width	Function Value
1	N	2.404 475 GHz	-4.880 dBm			
2	N	2.400 000 GHz	-40.498 dBm			
3	N	2.390 000 GHz	-53.680 dBm			
4	N	2.310 000 GHz	-53.201 dBm			
5	N	2.399 960 GHz	-40.498 dBm			

Frequency

Auto Tune

Center Freq
2.352500000 GHz

Start Freq
2.300000000 GHz

Stop Freq
2.405000000 GHz

CF Step
10.500000 MHz

Freq Offset
0 Hz

SRD_Ant1_High_2479.85

Agilent Spectrum Analyzer - Sweep SA

Center Freq 2.510000000 GHz

Ref Offset 9.06 dB
Ref 20.00 dBm

Mkr4 2.483 76 GHz
-38.789 dBm

Start 2.47000 GHz
#Res BW 100 kHz

#VBW 300 kHz

Stop 2.55000 GHz
Sweep 7.667 ms (1001 pts)

Mkr	Mode	Freq	Power	Function	Function Width	Function Value
1	N	2.479 75 GHz	-2.937 dBm			
2	N	2.483 50 GHz	-43.058 dBm			
3	N	2.500 00 GHz	-52.592 dBm			
4	N	2.483 76 GHz	-38.789 dBm			

Frequency

Auto Tune

Center Freq
2.510000000 GHz

Start Freq
2.470000000 GHz

Stop Freq
2.550000000 GHz

CF Step
8.000000 MHz

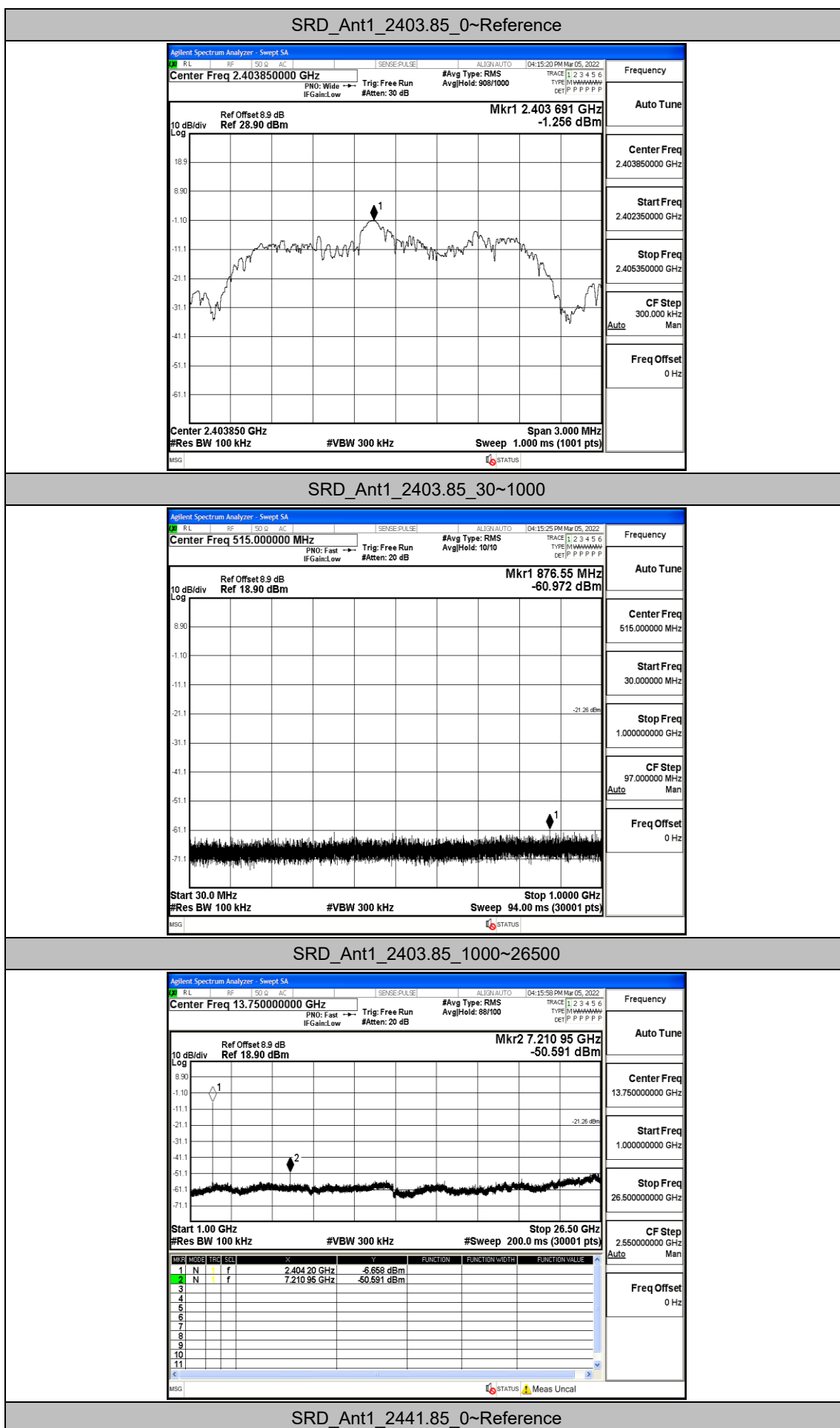
Freq Offset
0 Hz

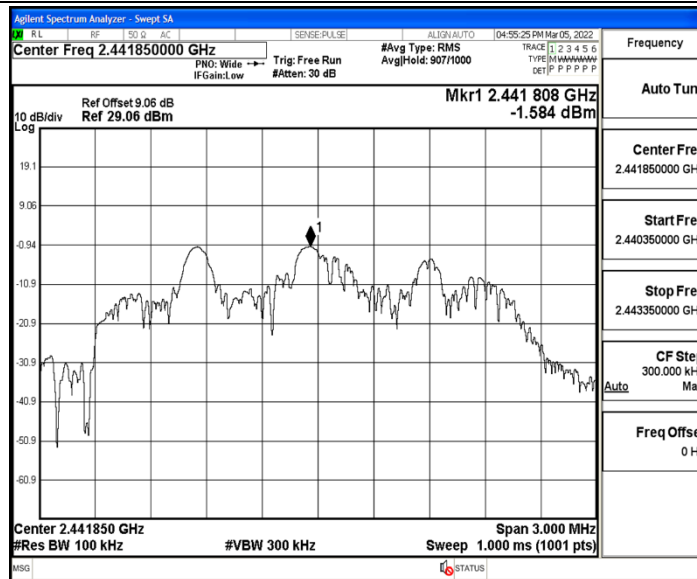
Appendix F: Conducted Spurious Emission

Test Result

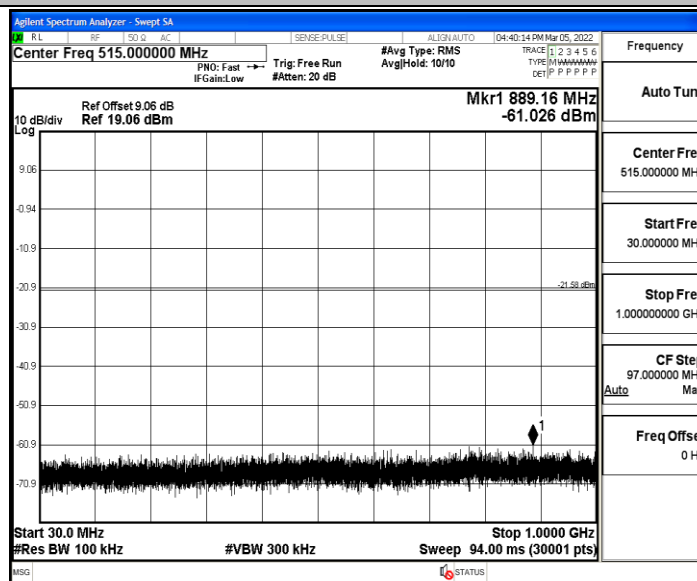
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	2403.85	Reference	-1.26	-1.26	---	PASS
			30~1000	-1.26	-60.97	≤ -21.26	PASS
			1000~26500	-1.26	-50.59	≤ -21.26	PASS
		2441.85	Reference	-1.58	-1.58	---	PASS
			30~1000	-1.58	-61.03	≤ -21.58	PASS
			1000~26500	-1.58	-35.03	≤ -21.58	PASS
		2479.85	Reference	-1.75	-1.75	---	PASS
			30~1000	-1.75	-61.6	≤ -21.75	PASS
			1000~26500	-1.75	-40.89	≤ -21.75	PASS

Test Graphs

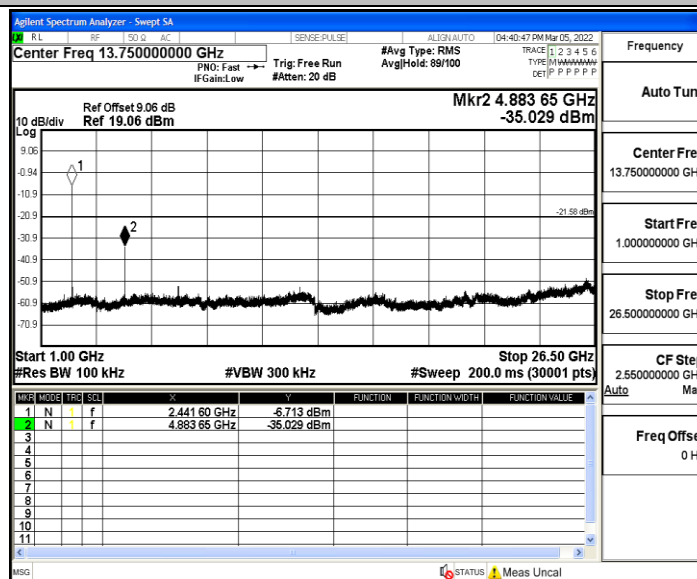




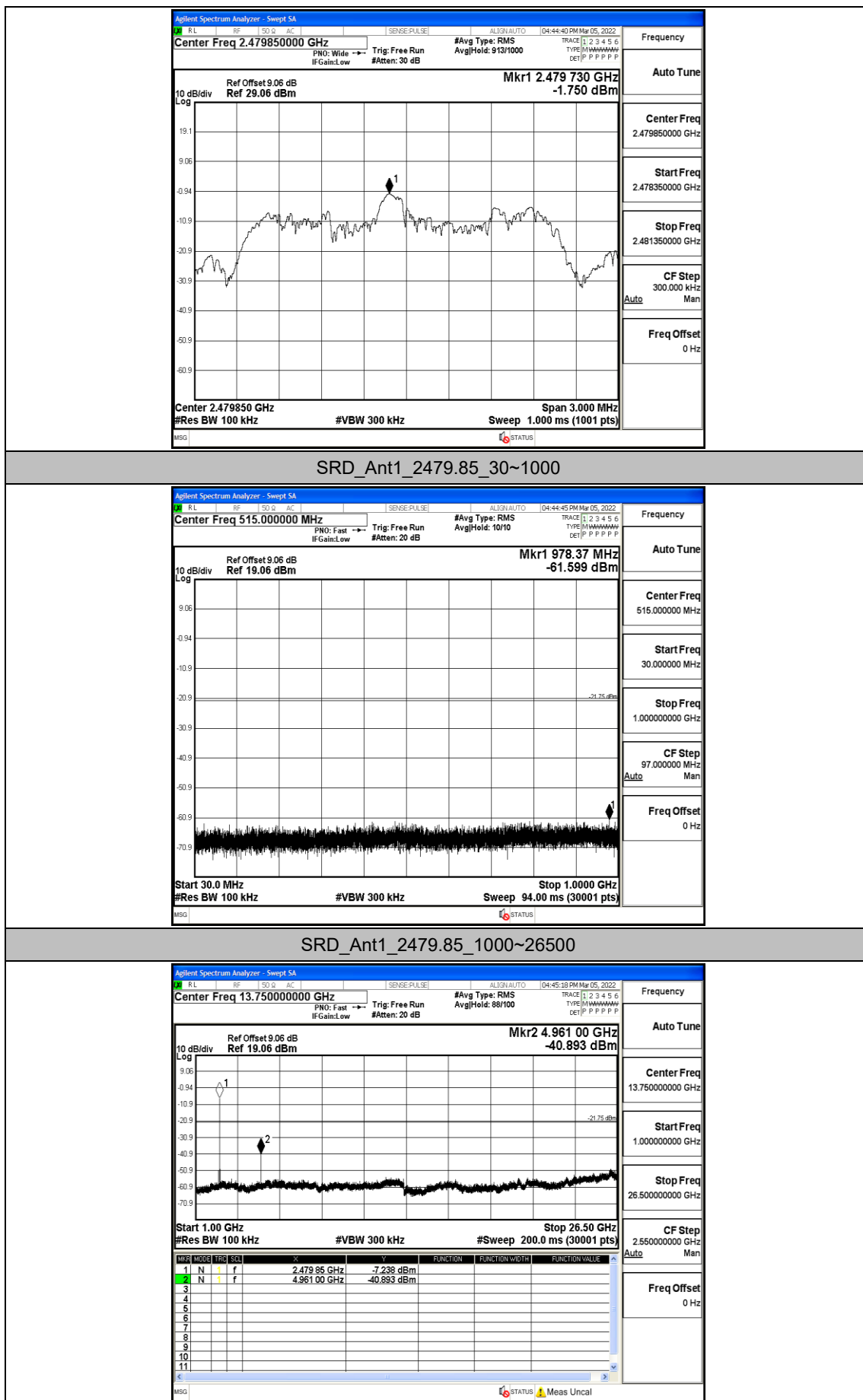
SRD_Ant1_2441.85_30~1000



SRD_Ant1_2441.85_1000~26500



SRD_Ant1_2479.85_0~Reference



Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T
SRD	Ant1	2403.85	0.12	7.51	1.60	8.33
		2441.85	0.12	7.51	1.60	8.33
		2479.85	0.13	7.52	1.73	7.69

SRD_Ant1_2403.85

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.403850000 GHz

Ref Offset 8.8 dB
Ref 20.00 dBm

ΔMkr3 7.510 ms
-8.85 dB

Span 0 Hz
Sweep 10.13 ms (8000 pts)

MARK	MODE	TRIG	SCN	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	t	(A)	150.0 μs	-5.24 dBm			
2	Δ1	t	(A)	120.0 μs (Δ)	5.18 dB			
3	Δ1	t	(A)	7.510 ms (Δ)	-8.85 dB			

SRD_Ant1_2441.85

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.441850000 GHz

Ref Offset 9.06 dB
Ref 20.00 dBm

ΔMkr3 7.510 ms
-0.67 dB

Span 0 Hz
Sweep 10.13 ms (8000 pts)

MARK	MODE	TRIG	SCN	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	t	(A)	200.0 μs	-1.65 dBm			
2	Δ1	t	(A)	120.0 μs (Δ)	0.36 dB			
3	Δ1	t	(A)	7.510 ms (Δ)	-0.67 dB			

SRD_Ant1_2479.85

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.479850000 GHz

Ref Offset 9.06 dB
Ref 20.00 dBm

ΔMkr3 7.520 ms
32.29 dB

Span 0 Hz
Sweep 10.13 ms (8000 pts)

MARK	MODE	TRIG	SCN	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	t	(A)	190.0 μs	-34.34 dBm			
2	Δ1	t	(A)	130.0 μs (Δ)	32.76 dB			
3	Δ1	t	(A)	7.520 ms (Δ)	32.29 dB			