FCC Appendix RF Test Data

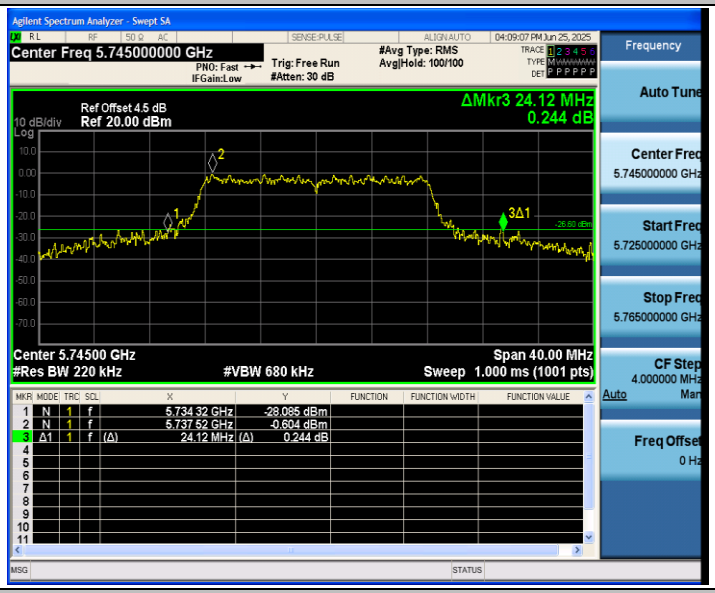
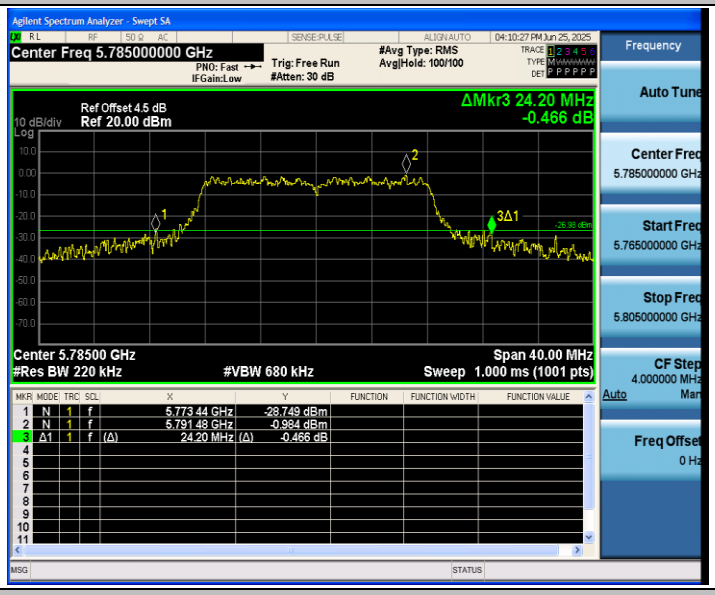
FCC ID	**:**	**2AW5W-R88**
Company	**:**	**REXING INC.**
EUT	**:**	**Dash Camera**
Model Number	**:**	**R88**
Report No.	**:**	**CTA25062400801**
Reviewed By	**:**	**Eric Wang**

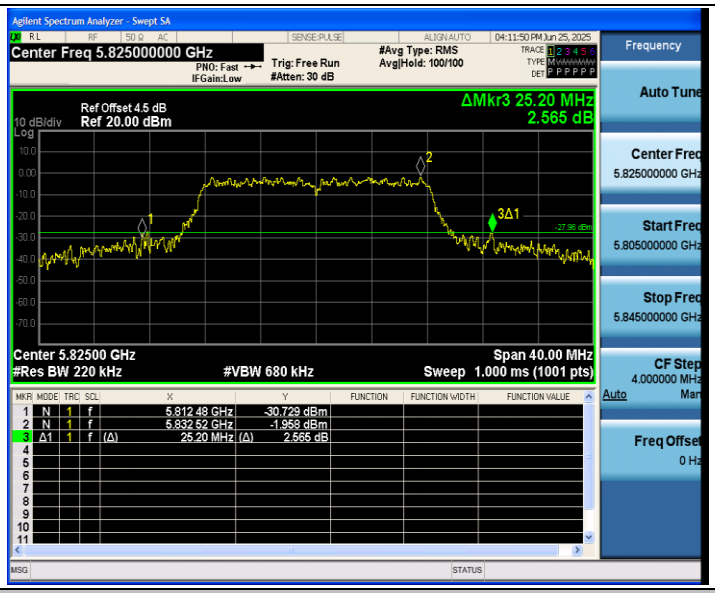
Appendix A1: Emission Bandwidth

Test Result

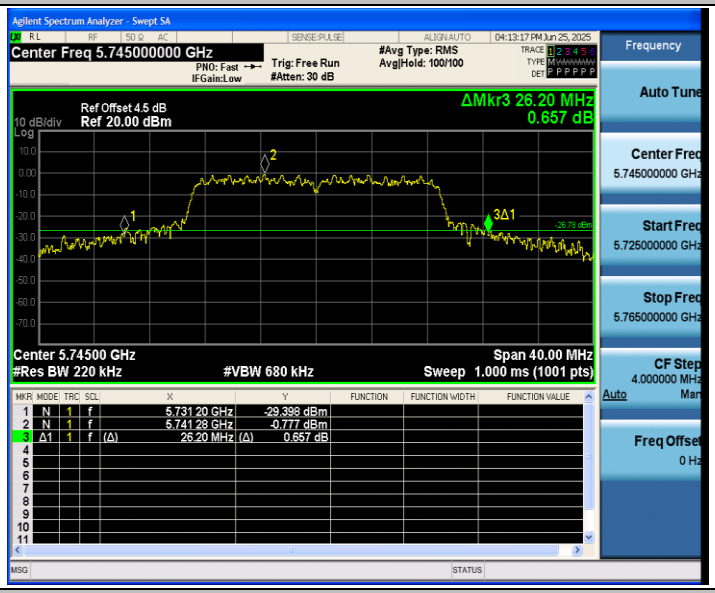
TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	24.120	5734.320	5758.440	---	---
		5785	24.200	5773.440	5797.640	---	---
		5825	25.200	5812.480	5837.680	---	---
11N20SISO	Ant1	5745	26.200	5731.200	5757.400	---	---
		5785	25.120	5772.400	5797.520	---	---
		5825	25.280	5812.320	5837.600	---	---
11N40SISO	Ant1	5755	44.560	5731.000	5775.560	---	---
		5795	42.880	5774.280	5817.160	---	---

Test Graphs

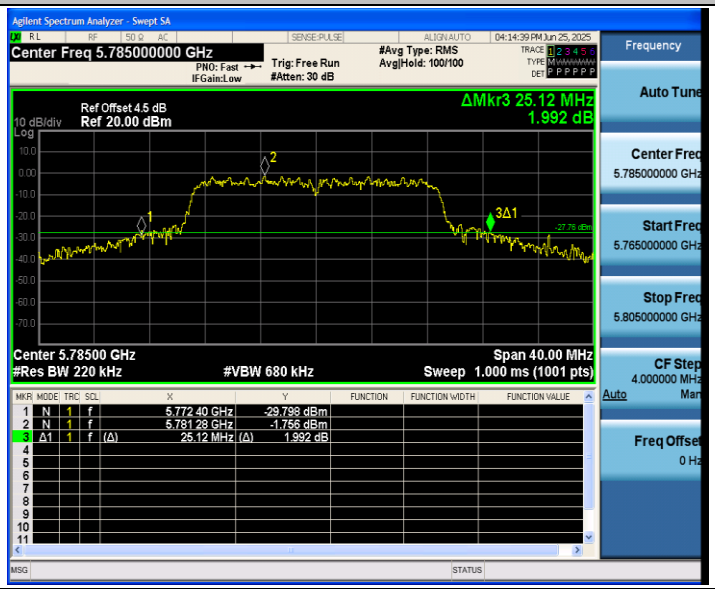
11A_Ant1_5745

11A_Ant1_5785

11A_Ant1_5825

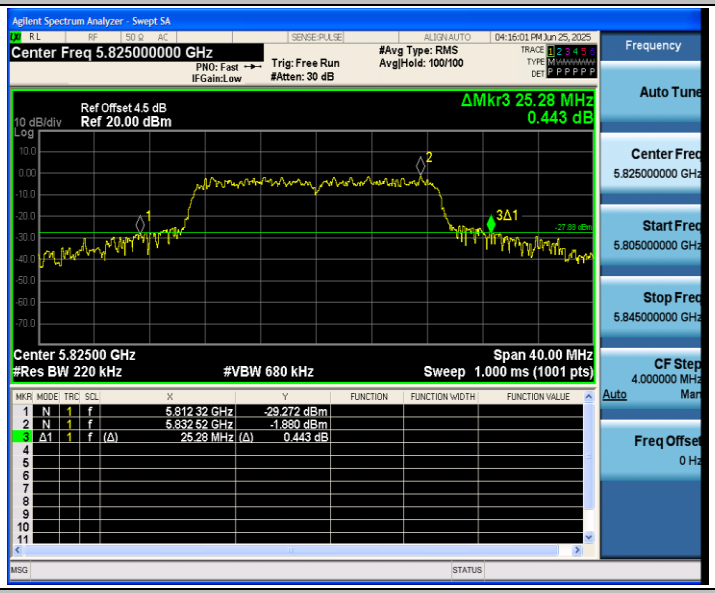


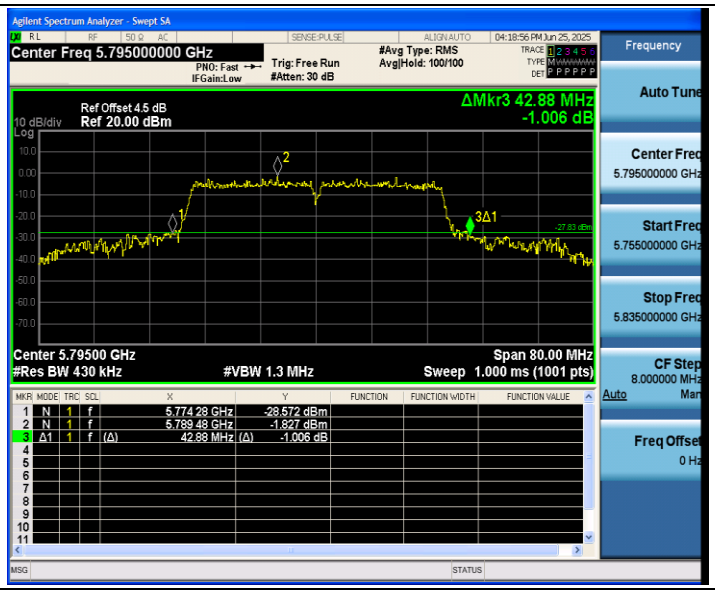
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825

11N40SISO_Ant1_5755
11N40SISO_Ant1_5795

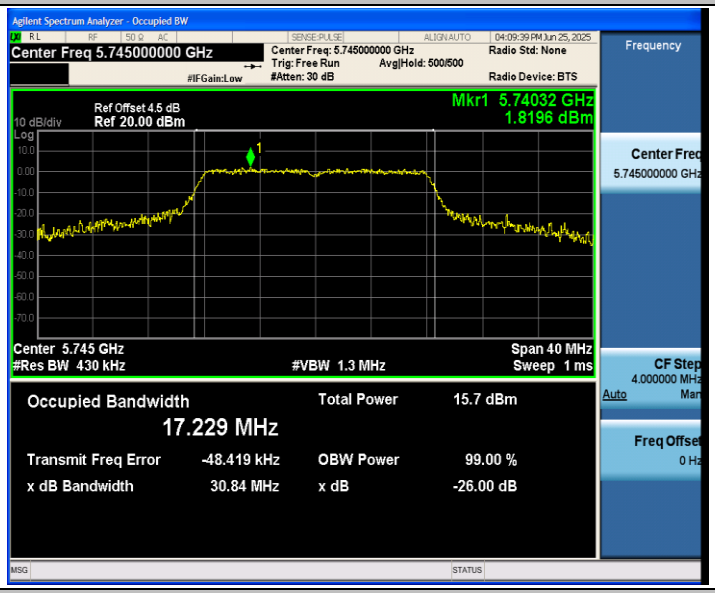
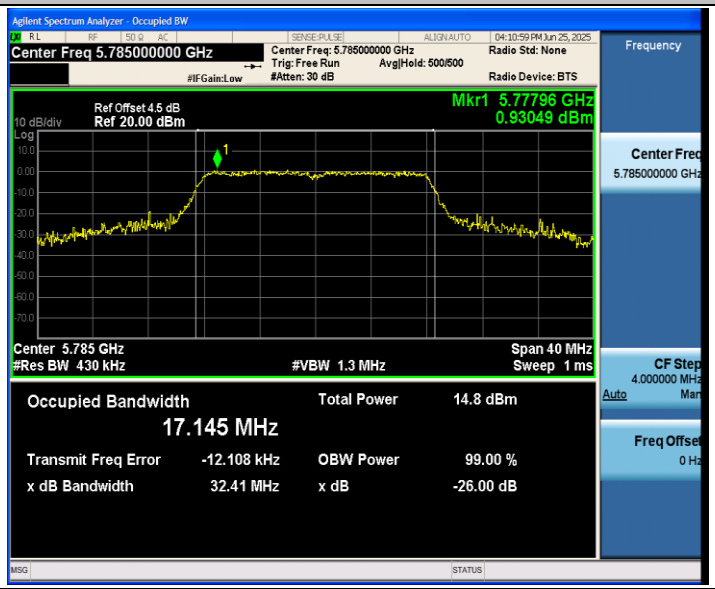

Agilent Spectrum Analyzer - Swept SA
Center Freq 5.795000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 100/100
04:18:56 PM Jun 25, 2025
Ref Offset 4.5 dB
10 dB/div
Ref 20.00 dBm
ΔMkr3 42.88 MHz
-1.006 dB
Center 5.79500 GHz
#Res BW 430 kHz
#VBW 1.3 MHz
Span 80.00 MHz
Sweep 1.000 ms (1001 pts)
1 N 1 f 5.774 28 GHz -28.572 dBm
2 N 1 f 5.789 48 GHz -1.827 dBm
3 Δ1 1 f (Δ) 42.88 MHz (Δ) -1.006 dB
Frequency
Auto Tune
Center Freq
5.795000000 GHz
Start Freq
5.755000000 GHz
Stop Freq
5.835000000 GHz
CF Step
8.000000 MHz
Auto
Man
Freq Offset
0 Hz

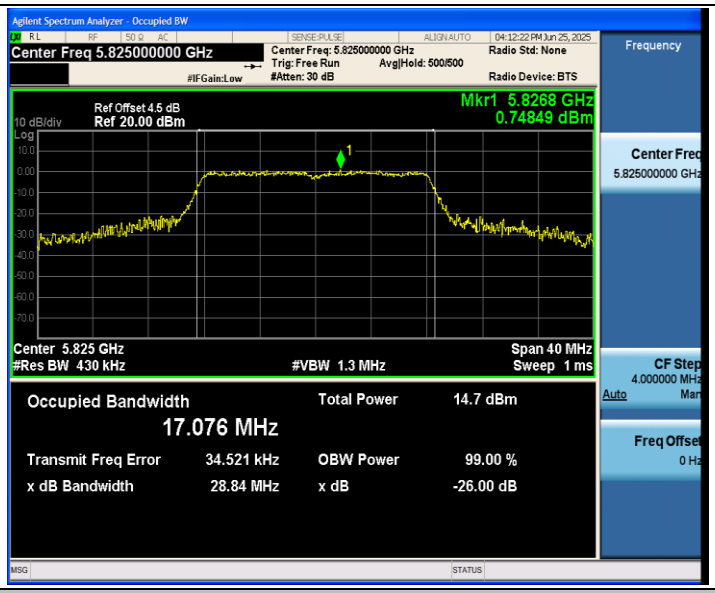
Appendix A2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	17.229	5736.3371	5753.5661	---	---
		5785	17.145	5776.4154	5793.5604	---	---
		5825	17.076	5816.4965	5833.5725	---	---
11N20SISO	Ant1	5745	18.104	5735.9400	5754.0440	---	---
		5785	18.121	5775.9558	5794.0768	---	---
		5825	18.064	5816.0422	5834.1062	---	---
11N40SISO	Ant1	5755	36.654	5736.5902	5773.2442	---	---
		5795	36.502	5776.7611	5813.2631	---	---

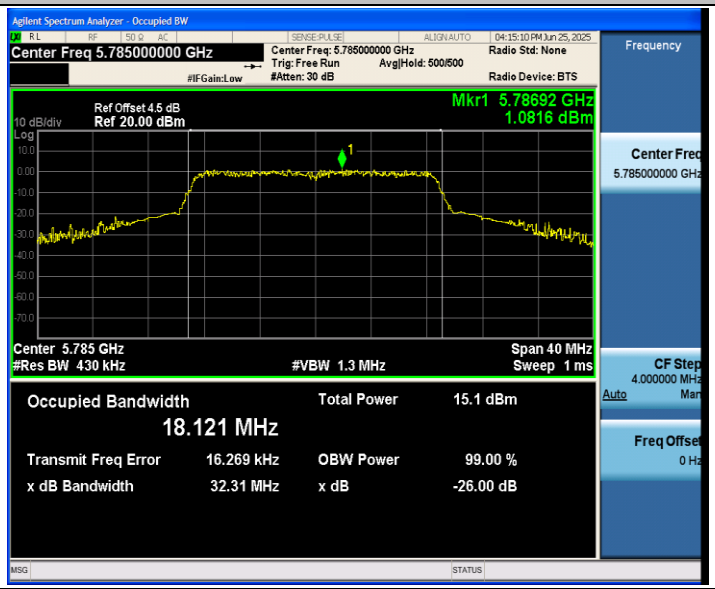
Test Graphs

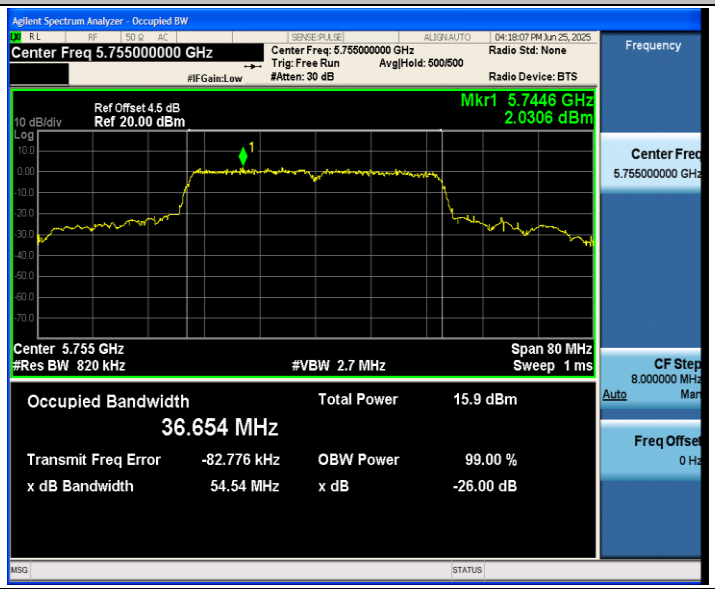
11A_Ant1_5745

11A_Ant1_5785

11A_Ant1_5825



11N20SISO_Ant1_5745

11N20SISO_Ant1_5785



11N20SISO_Ant1_5825
11N40SISO_Ant1_5755

11N40SISO_Ant1_5795

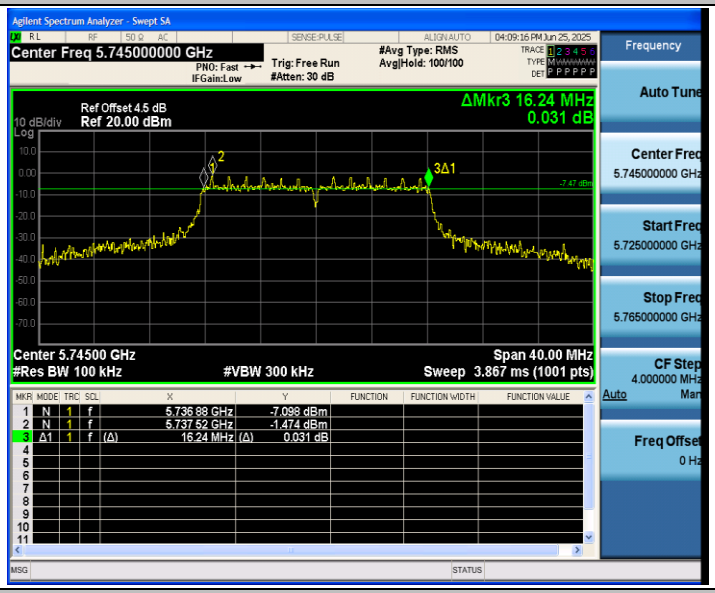
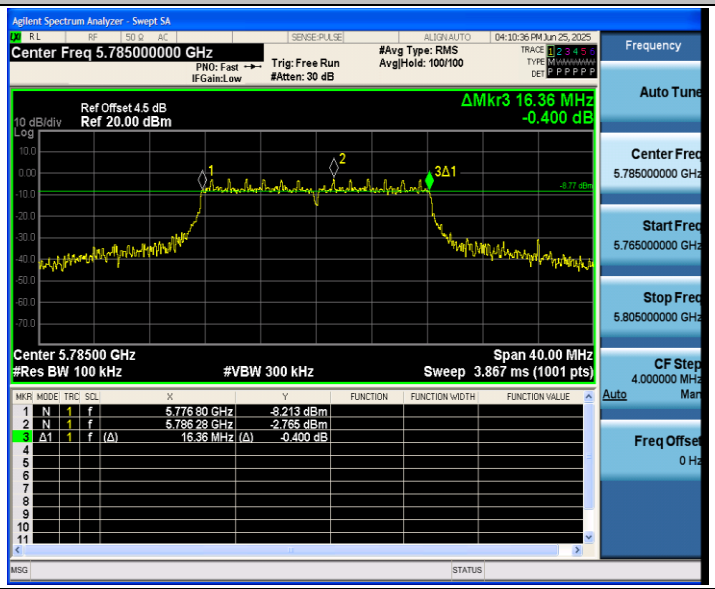
Agilent Spectrum Analyzer - Occupied BW
Center Freq 5.795000000 GHz
Center Freq: 5.795000000 GHz
Trig: Free Run
Avg|Hold: 500/500
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 4.5 dB
10 dB/div
Ref 20.00 dBm
Mkr1 5.78804 GHz
0.99676 dBm
Center 5.795 GHz
#Res BW 820 kHz
#VBW 2.7 MHz
Span 80 MHz
Sweep 1 ms
Occupied Bandwidth
36.502 MHz
Total Power
15.2 dBm
Transmit Freq Error
12.069 kHz
OBW Power
99.00 %
x dB Bandwidth
58.42 MHz
x dB
-26.00 dB
Center Freq
5.795000000 GHz
CF Step
8.000000 MHz
Auto
Freq Offset
0 Hz
MSG
STATUS

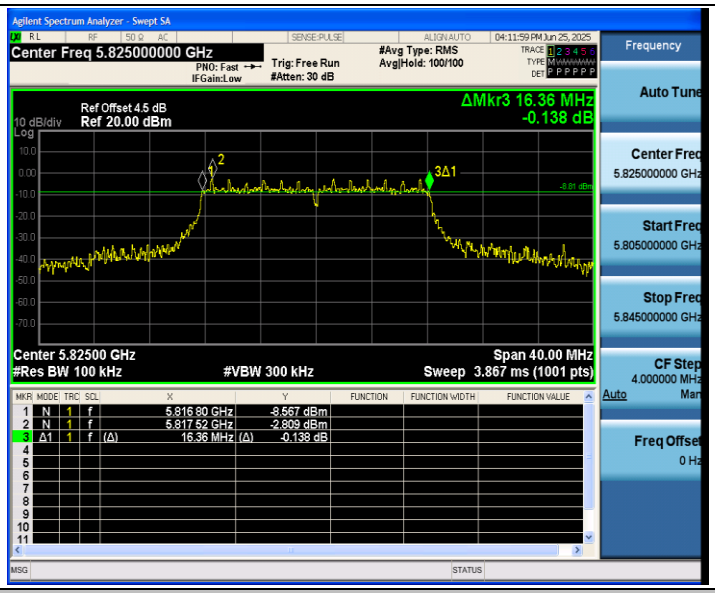
Appendix A3: Min emission bandwidth

Test Result B4

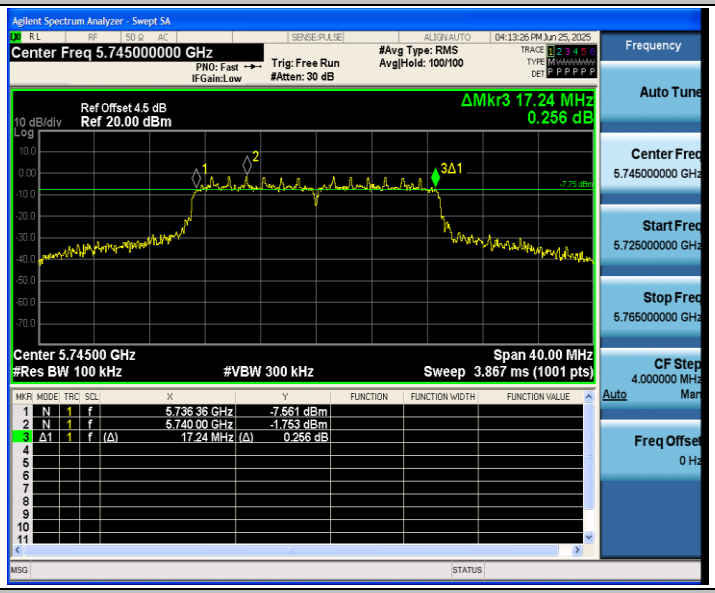
TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.240	5736.880	5753.120	0.5	PASS
		5785	16.360	5776.800	5793.160	0.5	PASS
		5825	16.360	5816.800	5833.160	0.5	PASS
11N20SISO	Ant1	5745	17.240	5736.360	5753.600	0.5	PASS
		5785	16.840	5776.480	5793.320	0.5	PASS
		5825	17.080	5816.520	5833.600	0.5	PASS
11N40SISO	Ant1	5755	35.280	5737.240	5772.520	0.5	PASS
		5795	35.520	5777.400	5812.920	0.5	PASS

Test Graphs B4

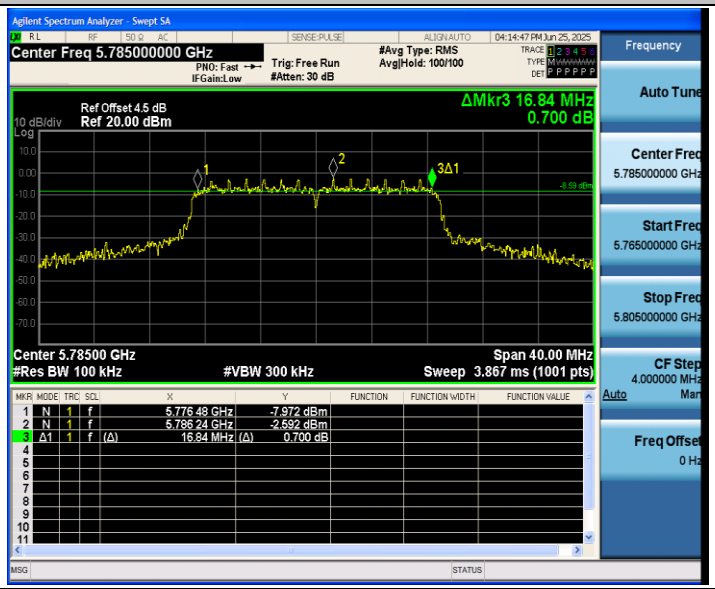
11A_Ant1_5745

11A_Ant1_5785

11A_Ant1_5825

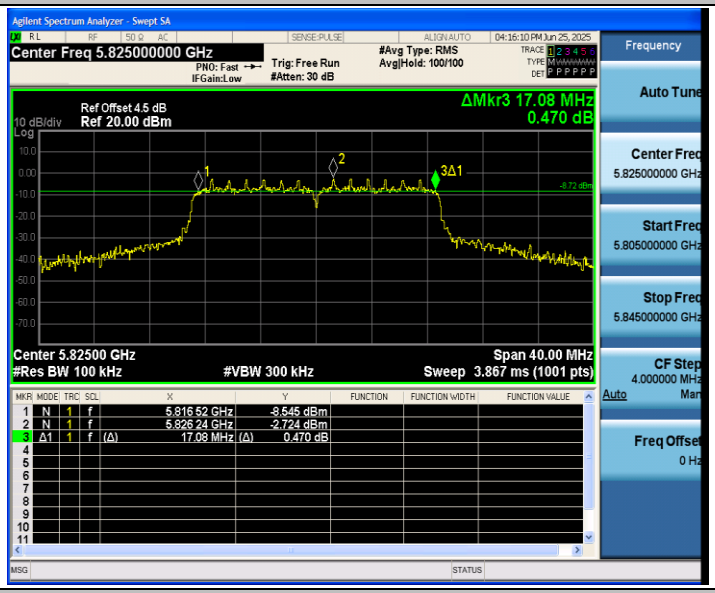
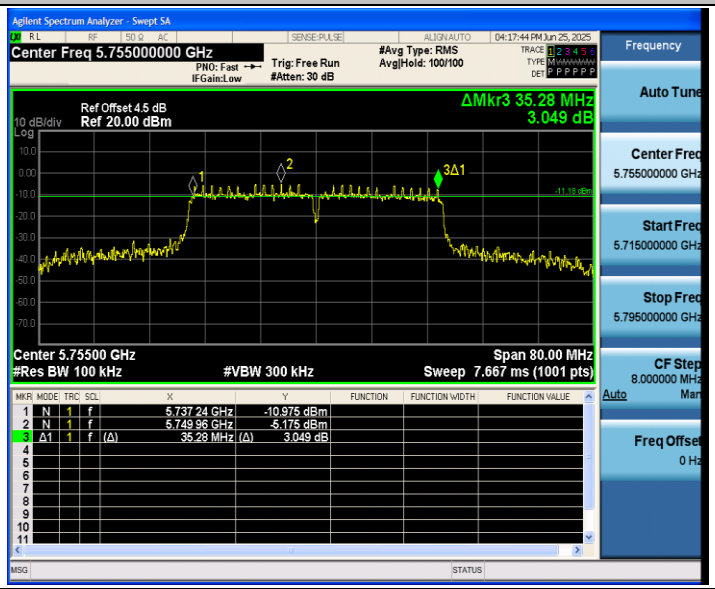


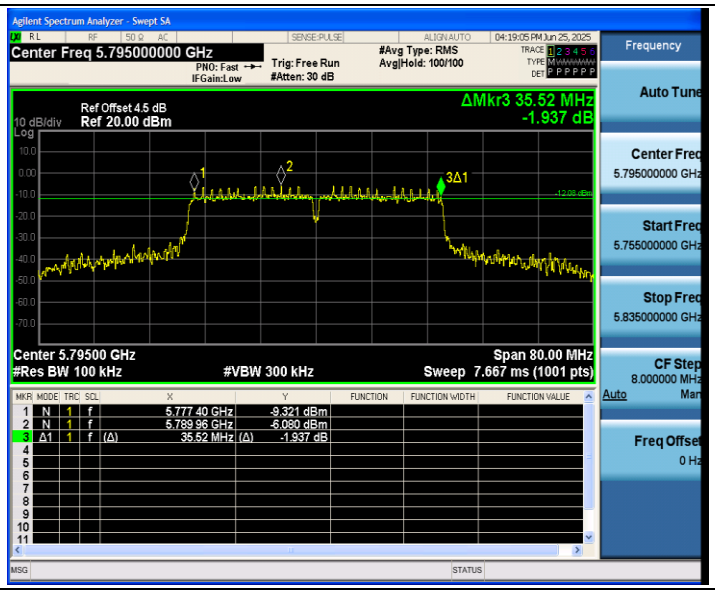
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825

11N40SISO_Ant1_5755

11N40SISO_Ant1_5795

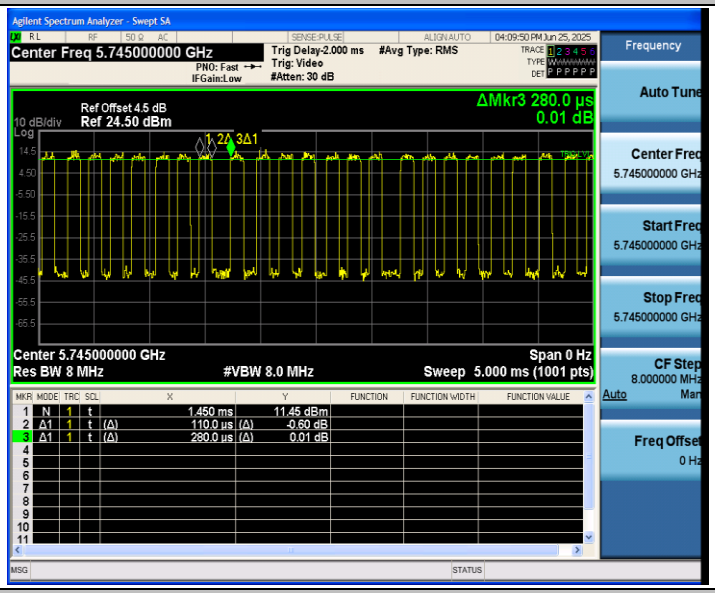
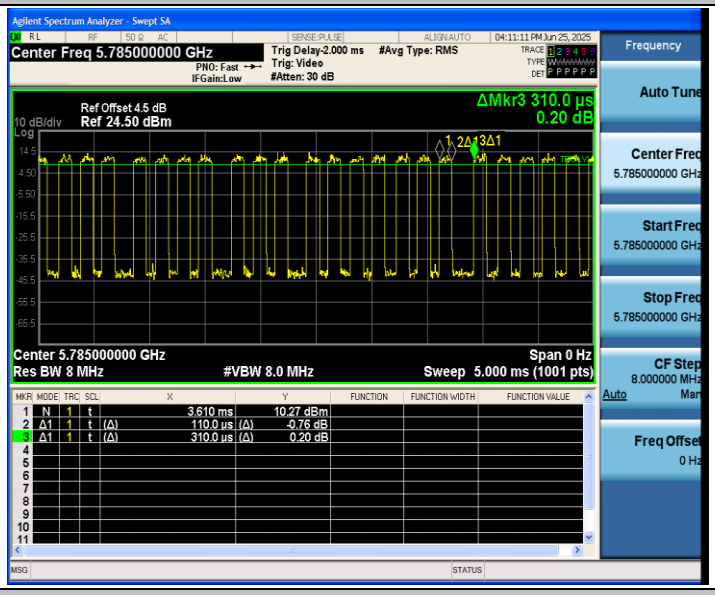

Agilent Spectrum Analyzer - Swept SA
Center Freq 5.795000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 100/100
04:19:05 PM Jun 25, 2025
Ref Offset 4.5 dB
10 dB/div
Ref 20.00 dBm
ΔMkr3 35.52 MHz
-1.937 dB
Center 5.79500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 80.00 MHz
Sweep 7.667 ms (1001 pts)
1 N 1 f 5.777 40 GHz -9.321 dBm
2 N 1 f 5.789 96 GHz -6.080 dBm
3 Δ1 1 f (Δ) 35.52 MHz (Δ) -1.937 dB
Frequency
Auto Tune
Center Freq
5.795000000 GHz
Start Freq
5.755000000 GHz
Stop Freq
5.835000000 GHz
CF Step
8.000000 MHz
Auto
Man
Freq Offset
0 Hz

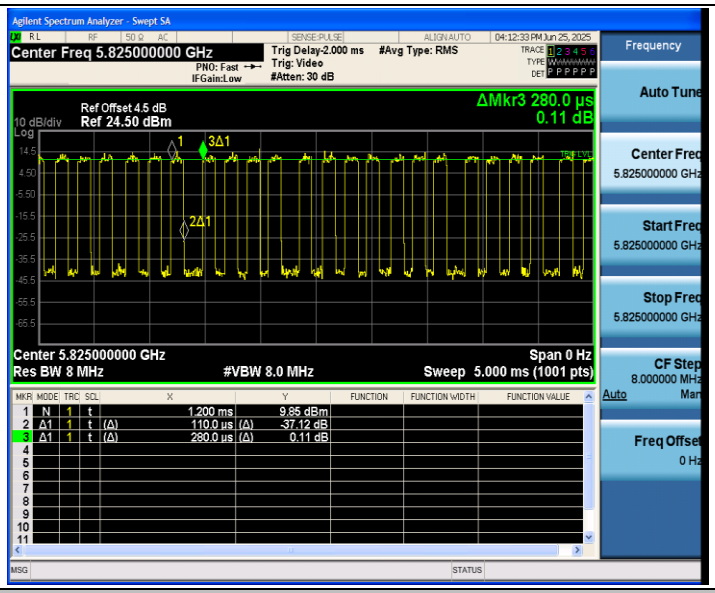
Appendix B: Duty Cycle

Test Result

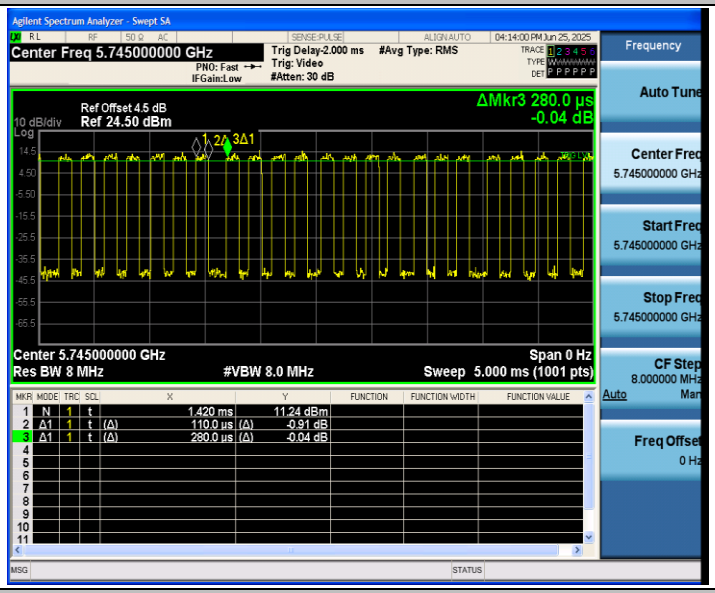
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty factor(dB)	Limit	Verdict
11A	Ant1	5745	0.11	0.28	39.29	4.06	---	---
		5785	0.11	0.31	35.48	4.50	---	---
		5825	0.11	0.28	39.29	4.06	---	---
11N20SISO	Ant1	5745	0.11	0.28	39.29	4.06	---	---
		5785	0.11	0.32	34.38	4.64	---	---
		5825	0.11	0.32	34.38	4.64	---	---
11N40SISO	Ant1	5755	0.08	0.26	30.77	5.12	---	---
		5795	0.08	0.29	27.59	5.59	---	---

Test Graphs

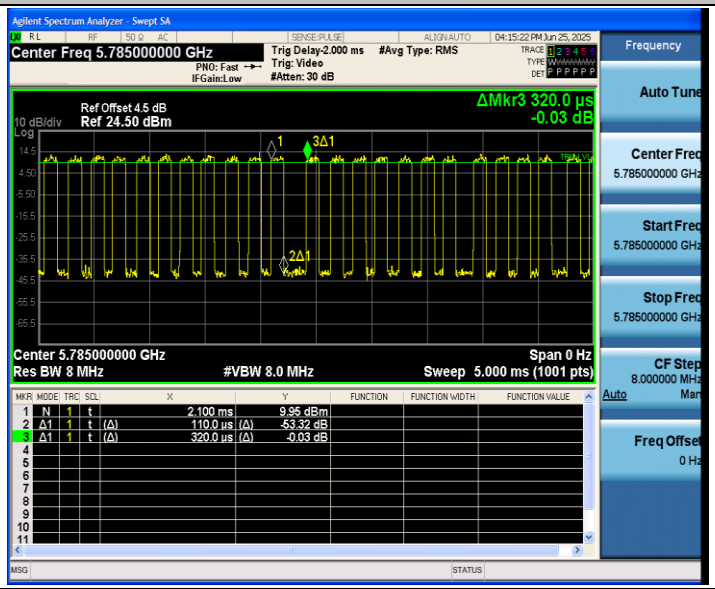
11A_Ant1_5745

11A_Ant1_5785

11A_Ant1_5825

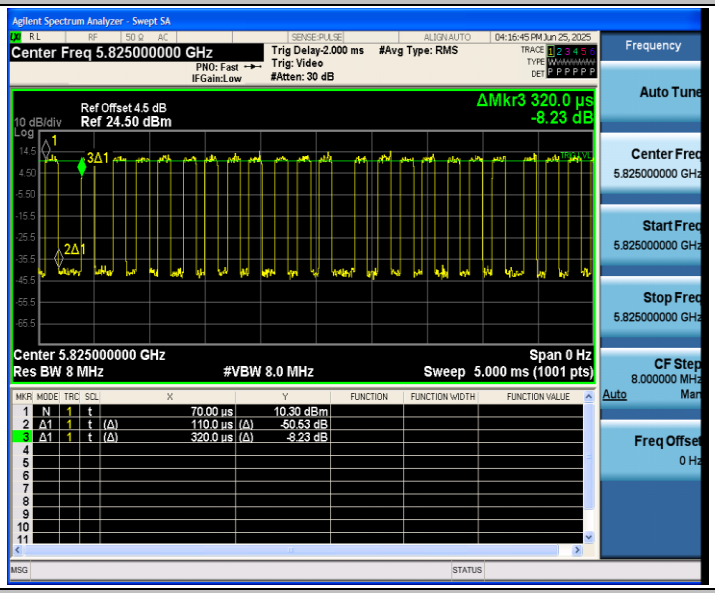
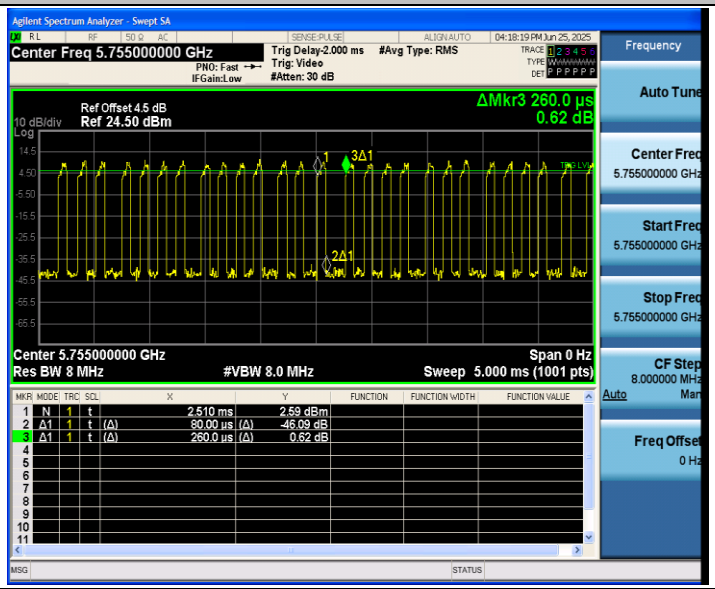


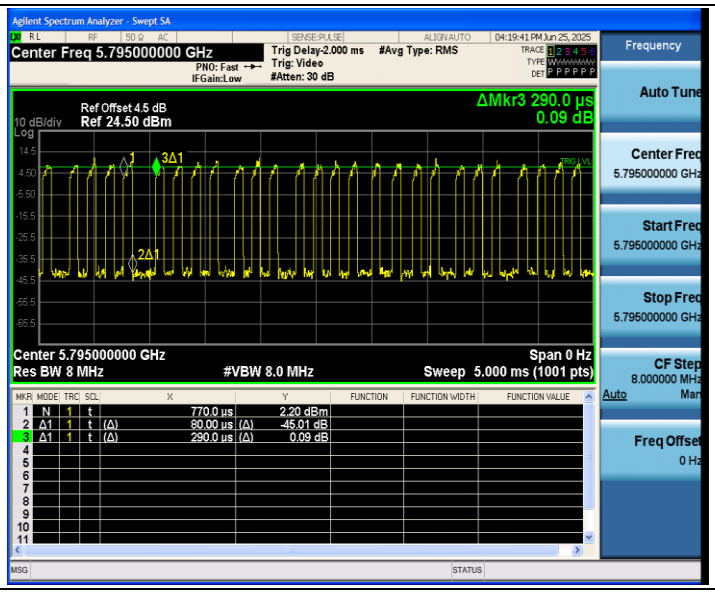
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825

11N40SISO_Ant1_5755

11N40SISO_Ant1_5795


Agilent Spectrum Analyzer - Swept SA
Center Freq 5.795000000 GHz
PNO: Fast
IFGain:Low
Trig Delay-2.000 ms
Trig: Video
#Avg Type: RMS
#Atten: 30 dB
04:19:41 PM Jun 25, 2025
Frequency
Auto Tune
Ref Offset 4.5 dB
10 dB/div
Ref 24.50 dBm
ΔMkr3 290.0 µs
0.09 dB
Center 5.795000000 GHz
Res BW 8 MHz
#VBW 8.0 MHz
Span 0 Hz
Sweep 5.000 ms (1001 pts)
1 N 1 t 770.0 µs 2.20 dBm
2 Δ1 1 t (Δ) 80.00 µs (Δ) -45.01 dB
3 Δ1 1 t (Δ) 290.0 µs (Δ) 0.09 dB
Center Freq
5.795000000 GHz
Start Freq
5.795000000 GHz
Stop Freq
5.795000000 GHz
CF Step
8.000000 MHz
Auto
Freq Offset
0 Hz
MSG
STATUS

Appendix C: Maximum conducted output power

Test Mode	Antenna	Freq(MHz)	TPC Mode	Channel Power [dBm]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	NA	6.45	4.06	10.51	≤30.00	PASS
		5785	NA	5.60	4.50	10.10	≤30.00	PASS
		5825	NA	5.46	4.06	9.52	≤30.00	PASS
11N20SISO	Ant1	5745	NA	6.47	4.06	10.53	≤30.00	PASS
		5785	NA	5.54	4.64	10.18	≤30.00	PASS
		5825	NA	5.49	4.64	10.13	≤30.00	PASS
11N40SISO	Ant1	5755	NA	4.60	5.12	9.72	≤30.00	PASS
		5795	NA	3.93	5.59	9.52	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

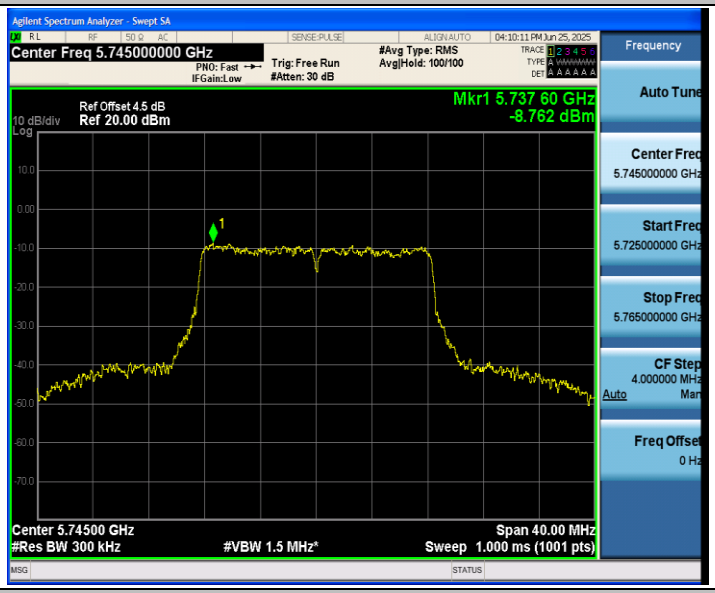
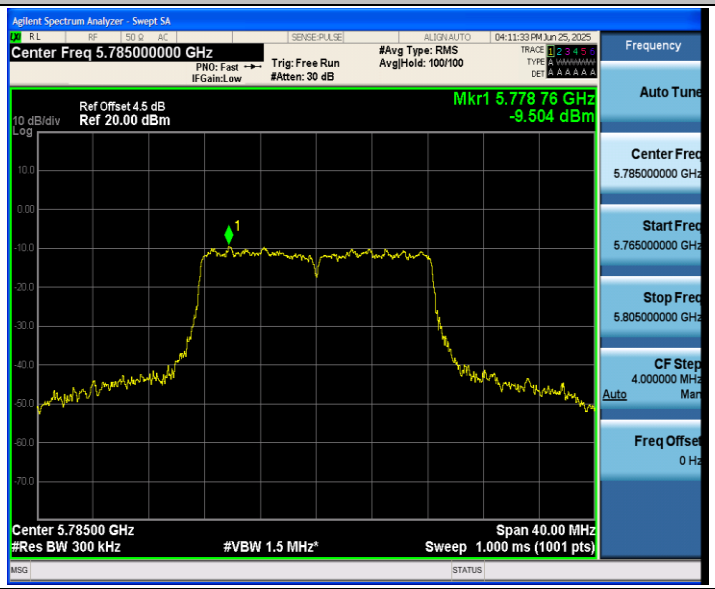
TestMode	Antenna	Freq(MHz)	Result [dBm/300KHz]	RBW Factor (dB)	Duty factor (dB)	Result [dBm/500KHz]	Limit [dBm/500KHz)	Verdict
11A	Ant1	5745	-8.762	2.22	4.06	-2.48	≤30.00	PASS
		5785	-9.504	2.22	4.50	-2.78	≤30.00	PASS
		5825	-9.811	2.22	4.06	-3.53	≤30.00	PASS
11N20SISO	Ant1	5745	-8.500	2.22	4.06	-2.22	≤30.00	PASS
		5785	-8.977	2.22	4.64	-2.12	≤30.00	PASS
		5825	-9.884	2.22	4.64	-3.02	≤30.00	PASS
11N40SISO	Ant1	5755	-12.563	2.22	5.12	-5.22	≤30.00	PASS
		5795	-13.608	2.22	5.59	-5.80	≤30.00	PASS

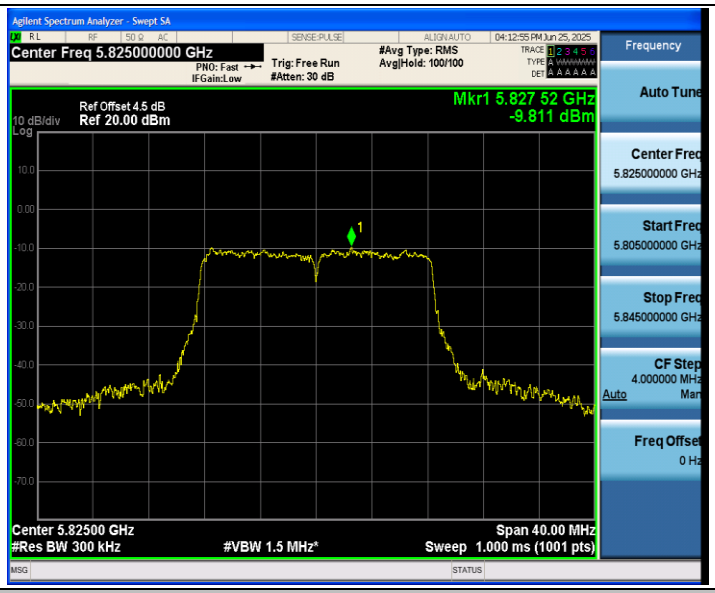
Note：1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

P.S.D(dBm/500KHz)= P.S.D(dBm/300KHz)+10 log (500 kHz/300KHz).

2. RBW factor= 10 log (500 KHz /300 KHz) = 2.22 dB.

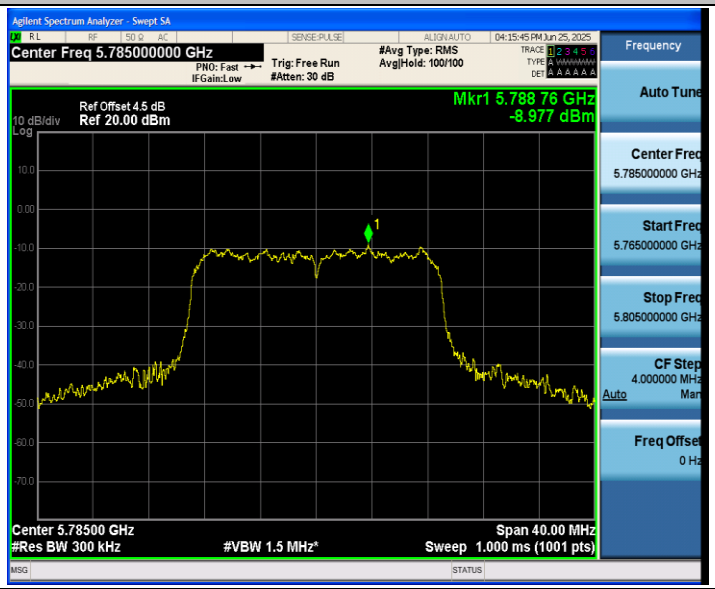
Test Graphs

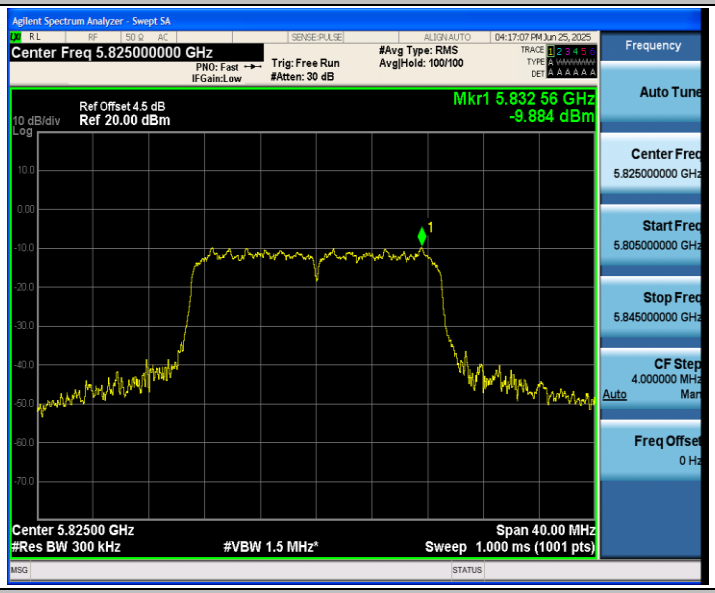
11A_Ant1_5745

11A_Ant1_5785

11A_Ant1_5825

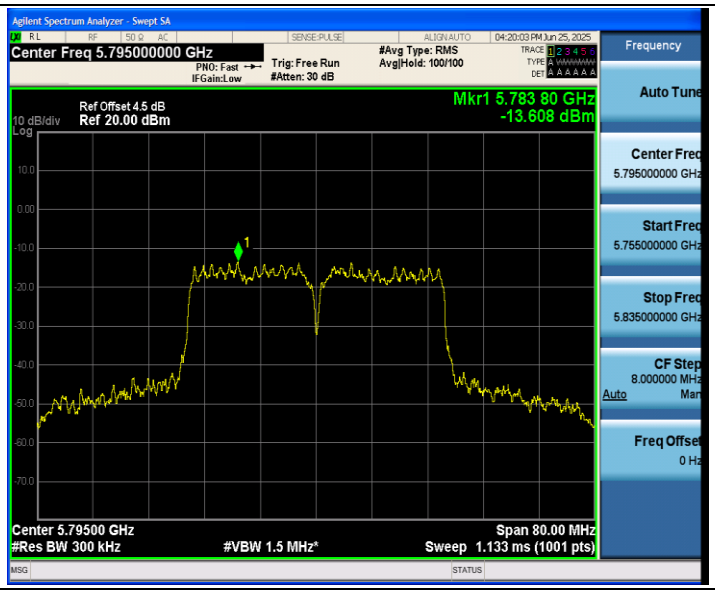


11N20SISO_Ant1_5745

11N20SISO_Ant1_5785



11N20SISO_Ant1_5825

11N40SISO_Ant1_5755
11N40SISO_Ant1_5795


Agilent Spectrum Analyzer - Swept SA
Center Freq 5.795000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 100/100
04:20:03 PM Jun 25, 2025
Ref Offset 4.5 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 5.783 80 GHz
-13.608 dBm
Center 5.79500 GHz
#Res BW 300 kHz
#VBW 1.5 MHz*
Span 80.00 MHz
Sweep 1.133 ms (1001 pts)
Frequency
Auto Tune
Center Freq
5.795000000 GHz
Start Freq
5.755000000 GHz
Stop Freq
5.835000000 GHz
CF Step
8.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS