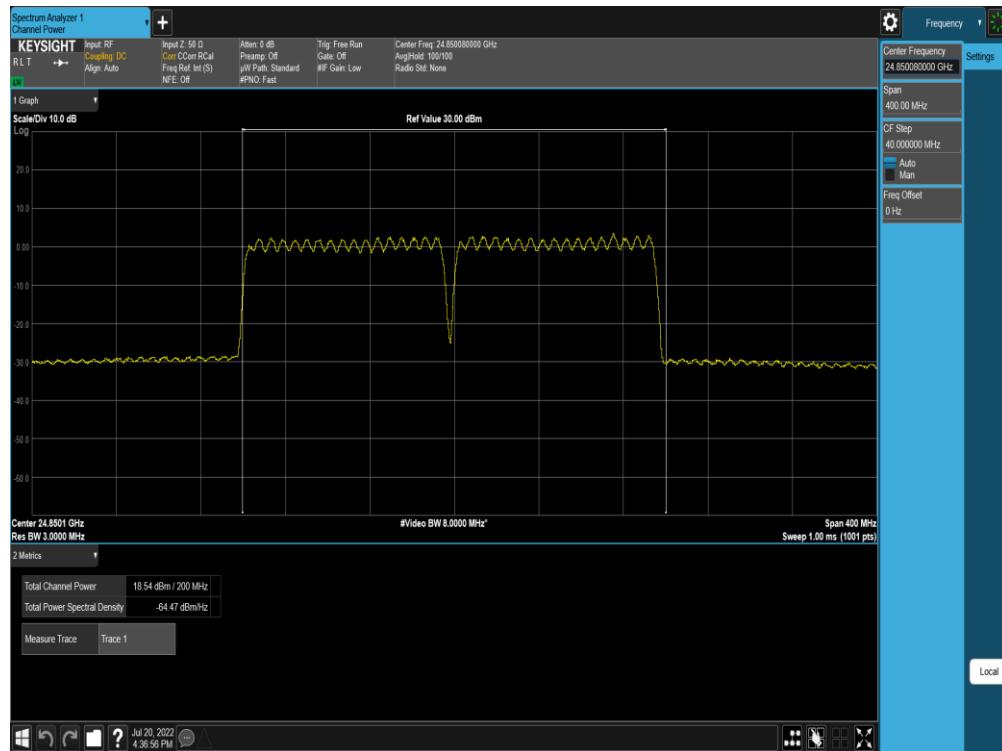
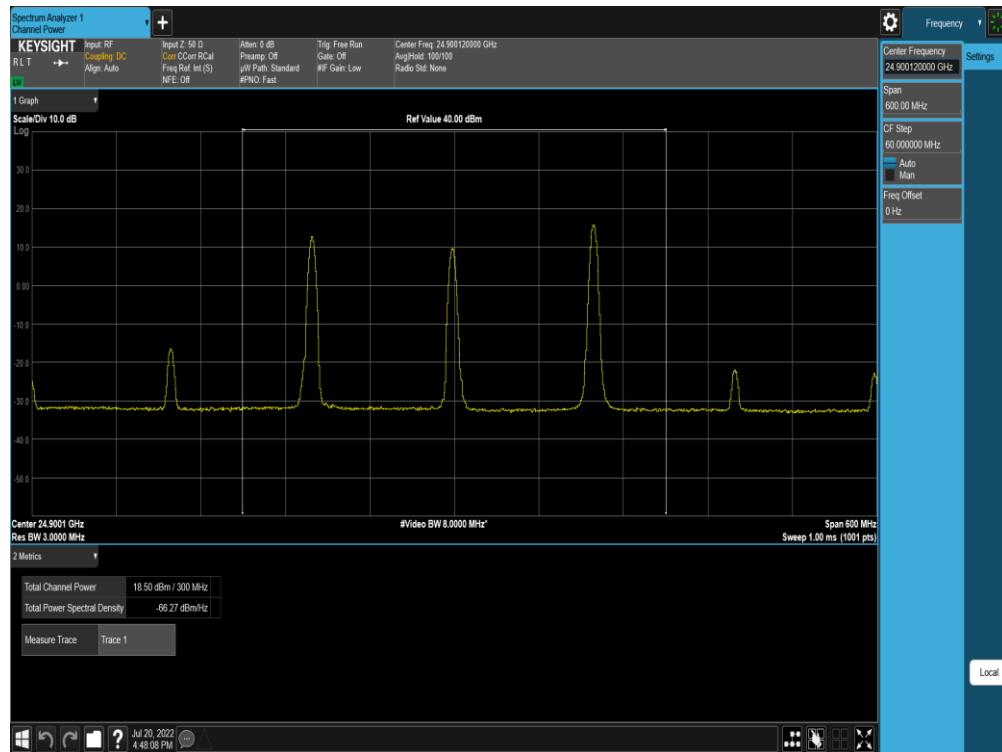


Plot 9-39. Ant M3 EIRP Plot (Band n258-R2-100MHz-1CC SISO Dual Pol DFTs-OFDM – QPSK– Low Channel)

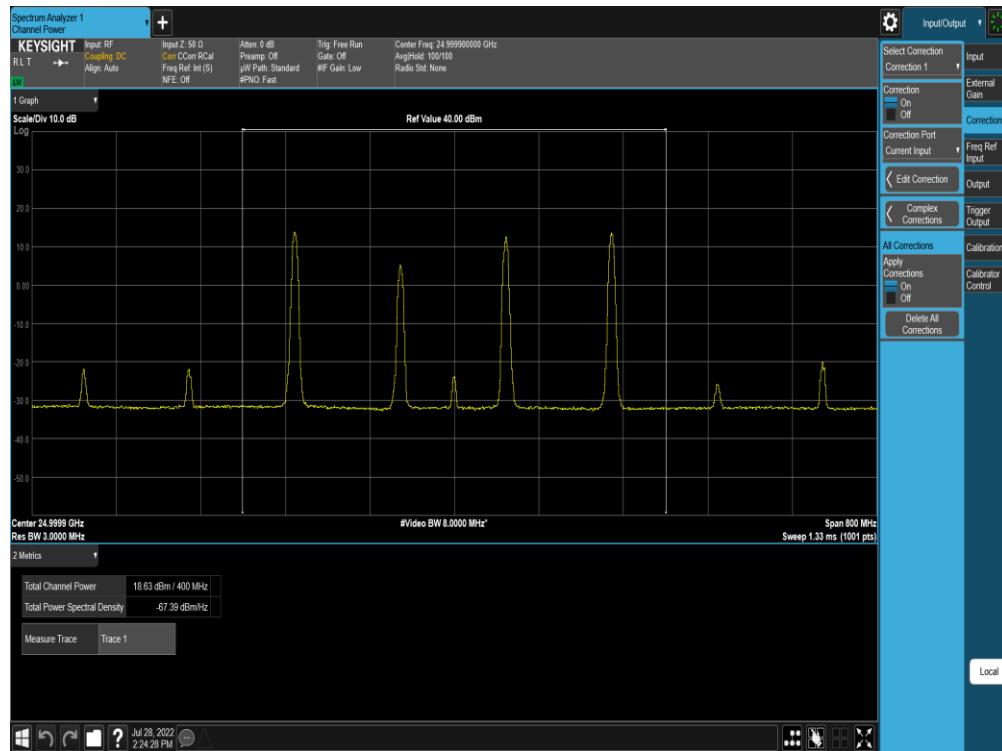


Plot 9-40. Ant M3 EIRP Plot (Band n258-R2-100MHz-2CC SISO Dual Pol DFTs-OFDM – 16QAM – Low Channel)

FCC ID: BCGA2764	 PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device	Page 958 of 999



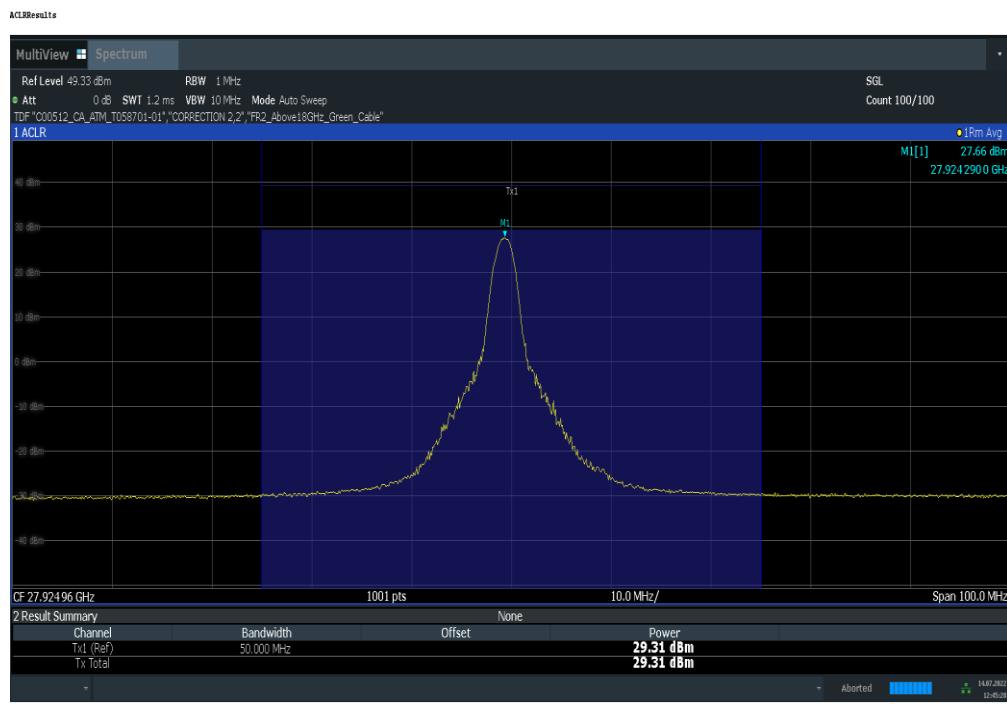
Plot 9-41. Ant M3 EIRP Plot (Band n258-R2-100MHz-3CC SISO Dual Pol DFTs-OFDM – $\pi/2$ BPSK – Low Channel)



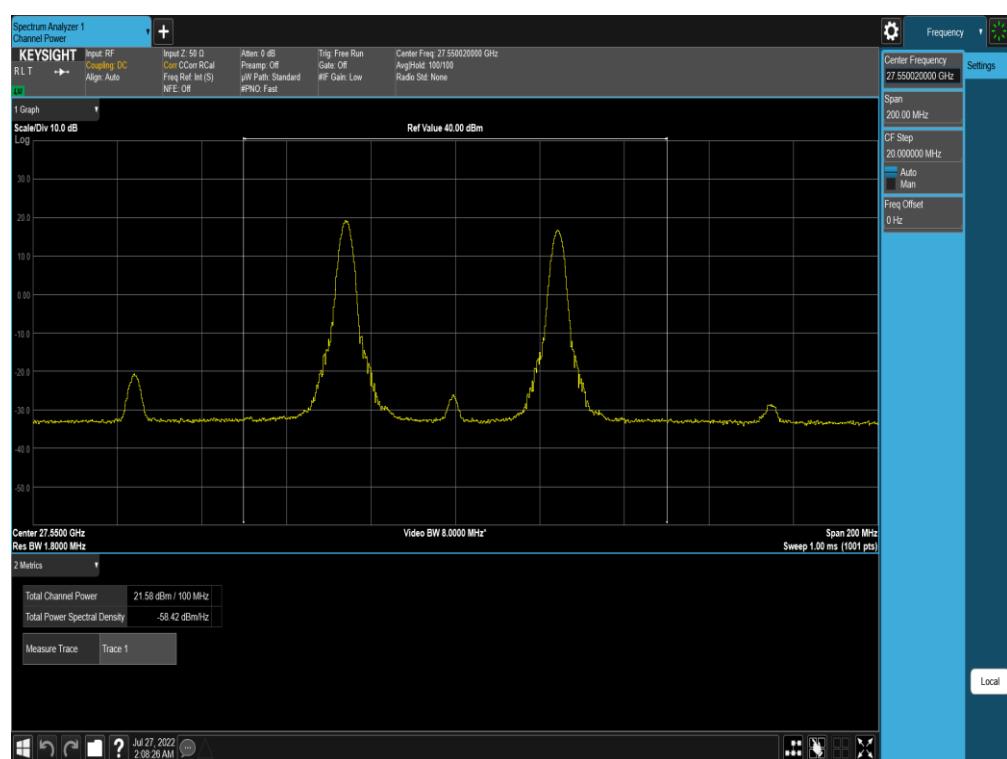
Plot 9-42. Ant M3 EIRP Plot (Band n258-R2-100MHz-4CC MIMO CP-OFDM – 16QAM – Mid Channel)

FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device		Page 959 of 999

9.1.7 Band n261 – Ant M0

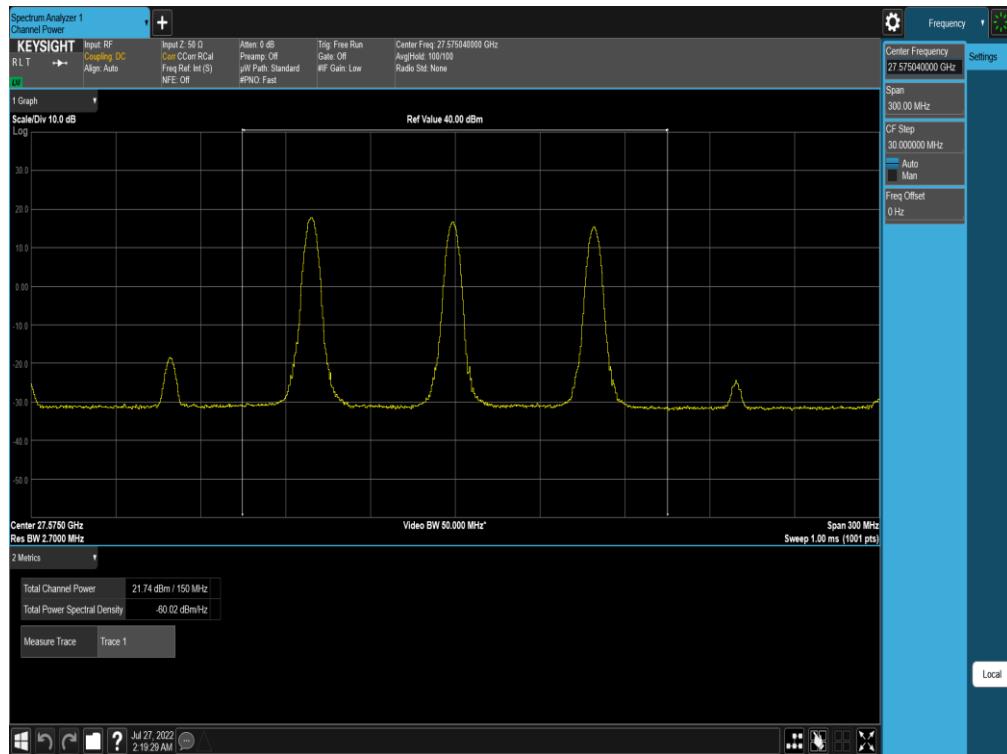


Plot 9-43. Ant M0 EIRP Plot (Band n261-50MHz-1CC SISO Dual Pol DFTs-OFDM – QPSK- Mid Channel)

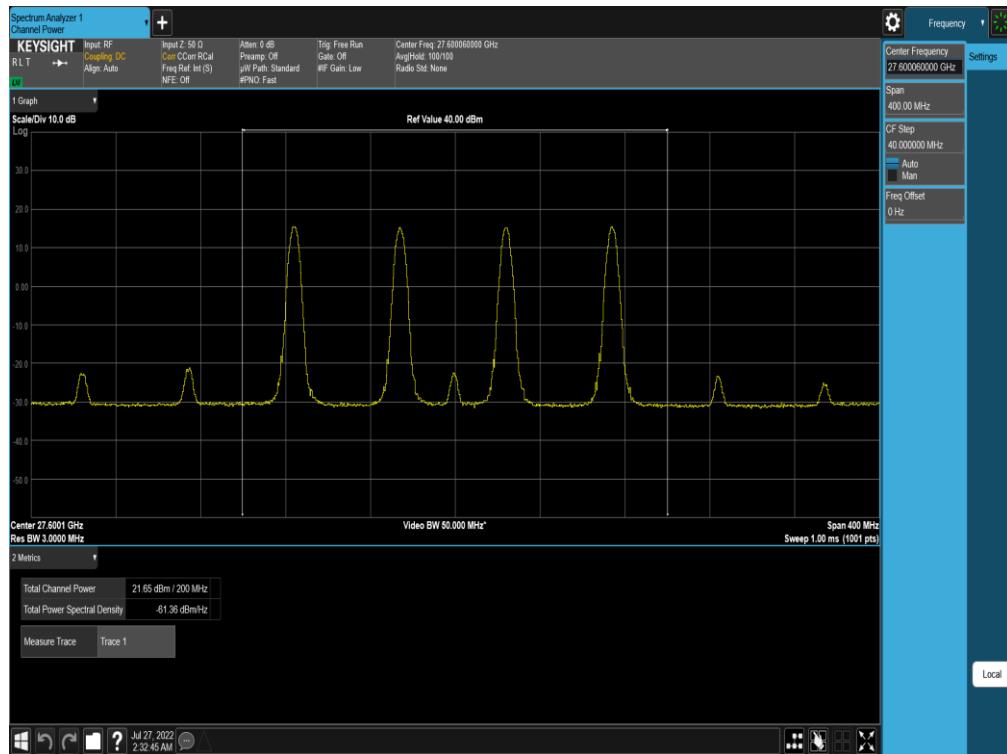


Plot 9-44. Ant M0 EIRP Plot (Band n261-50MHz-2CC SISO Dual Pol DFTs-OFDM – QPSK – Low Channel)

FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device		Page 960 of 999

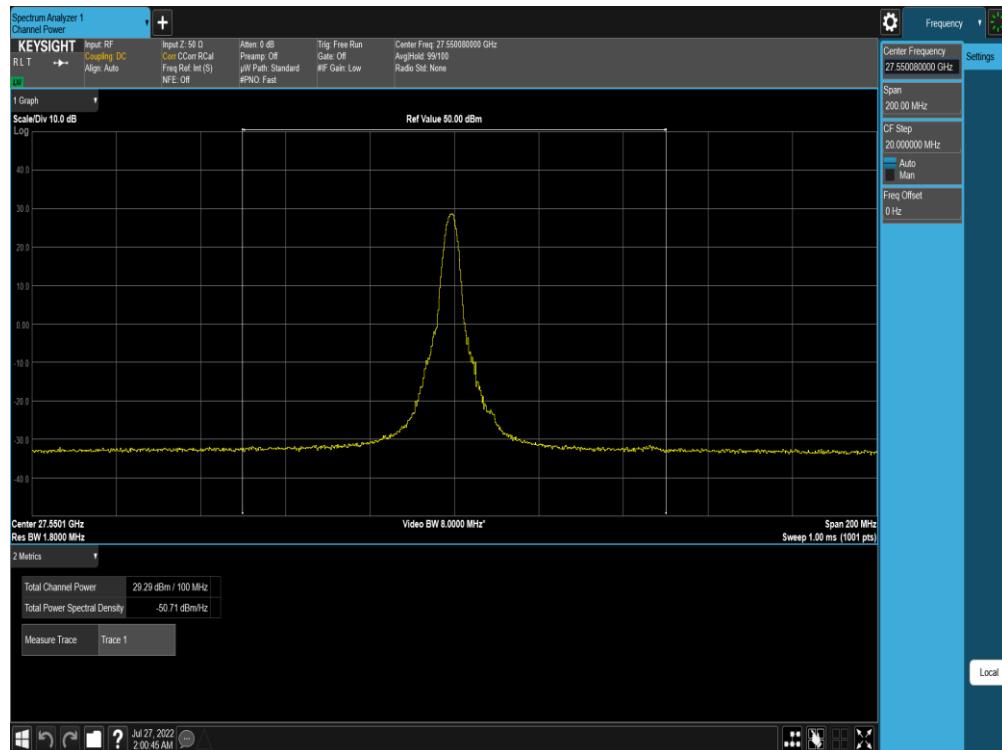


Plot 9-45. Ant M0 EIRP Plot (Band n261-50MHz-3CC SISO Dual Pol DFTs-OFDM – $\pi/2$ BPSK – Low Channel)



Plot 9-46. Ant M0 EIRP Plot (Band n261-50MHz-4CC SISO Dual Pol -OFDM – $\pi/2$ BPSK – Low Channel)

FCC ID: BCGA2764	 PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device	Page 961 of 999

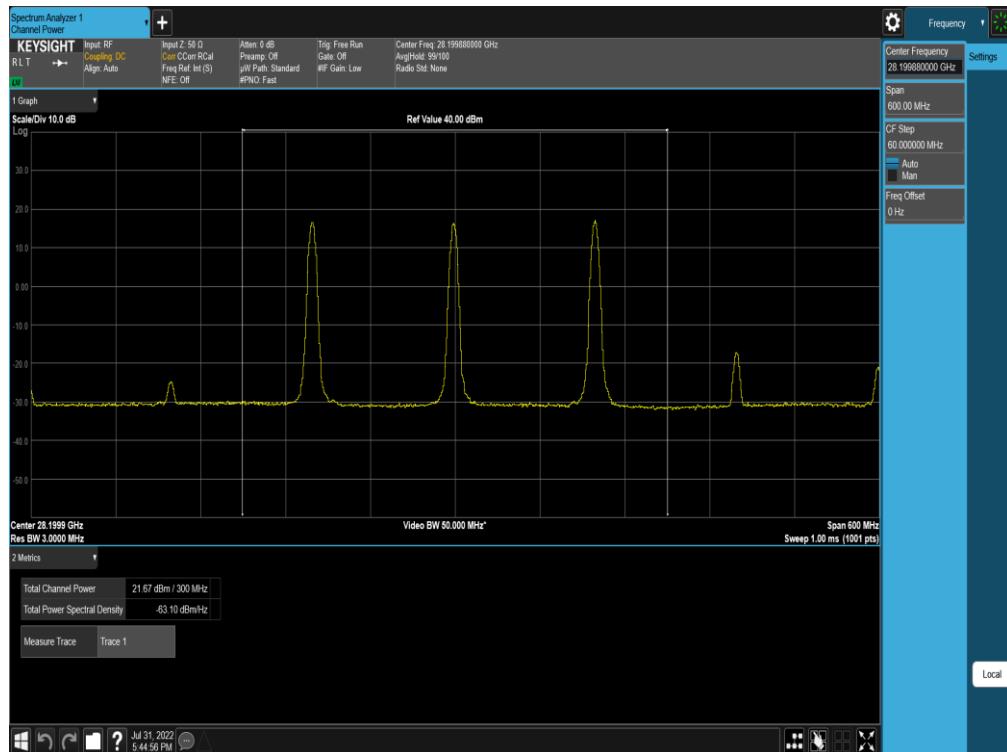


Plot 9-47. Ant M0 EIRP Plot (Band n261-100MHz-1CC SISO Dual Pol DFTs-OFDM – $\pi/2$ BPSK – Low Channel)

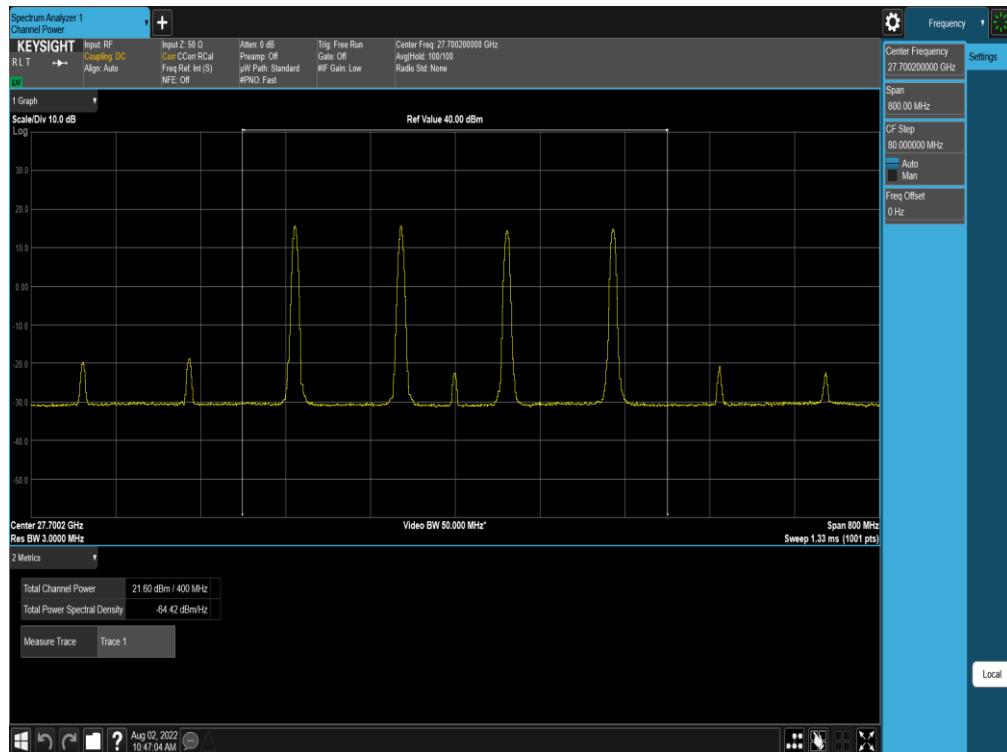


Plot 9-48. Ant M0 EIRP Plot (Band n261-100MHz-2CC SISO Dual Pol DFTs-OFDM – $\pi/2$ BPSK – Low Channel)

FCC ID: BCGA2764	 PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device	Page 962 of 999



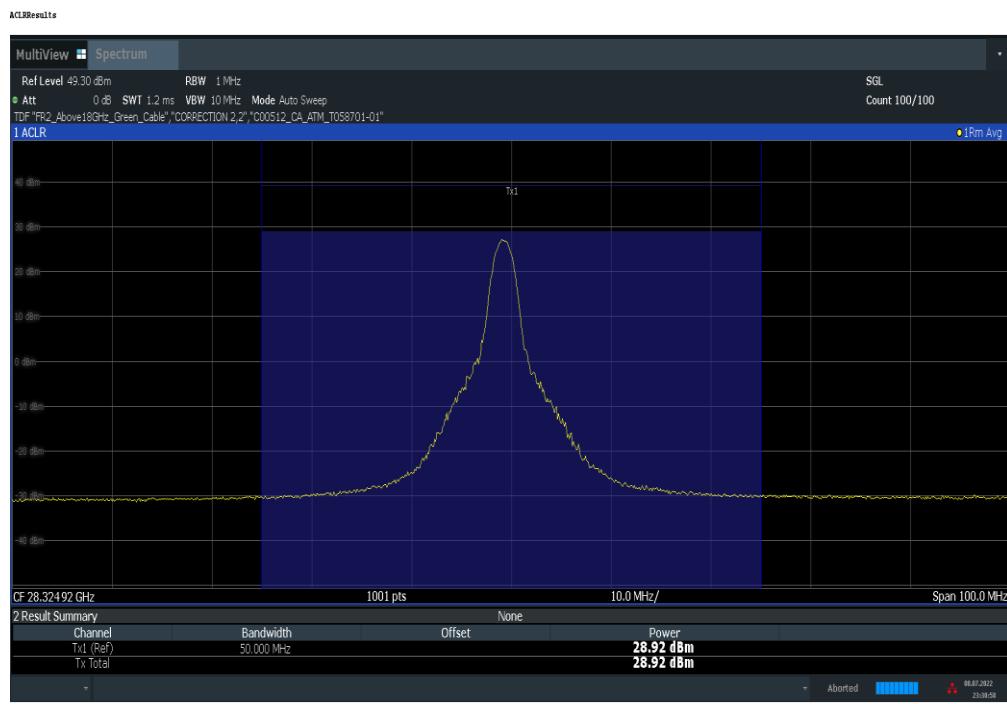
Plot 9-49. Ant M0 EIRP Plot (Band n261-100MHz-3CC SISO Dual Pol DFTs-OFDM – $\pi/2$ BPSK – High Channel)



Plot 9-50. Ant M0 EIRP Plot (Band n261-100MHz-4CC SISO Dual Pol DFTs-OFDM – $\pi/2$ BPSK – Mid Channel)

FCC ID: BCGA2764	 element	PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device		Page 963 of 999

9.1.8 Band n261 – Ant M2

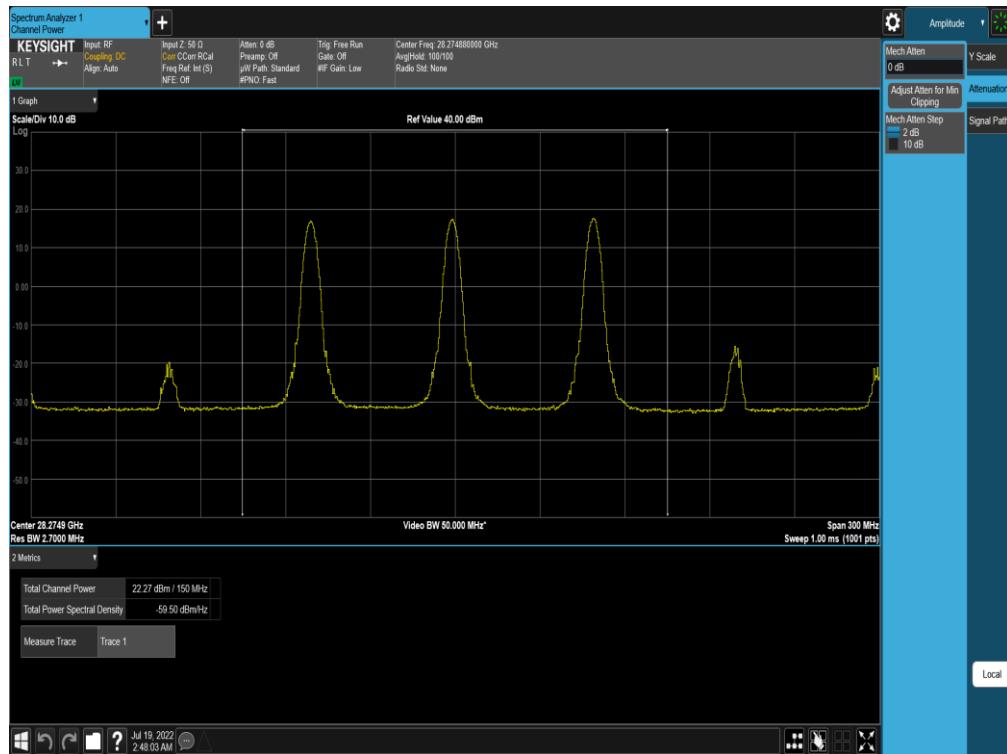


Plot 9-51. Ant M2 EIRP Plot (Band n261-50MHz-1CC SISO Dual Pol DFTs-OFDM – QPSK – Mid Channel)

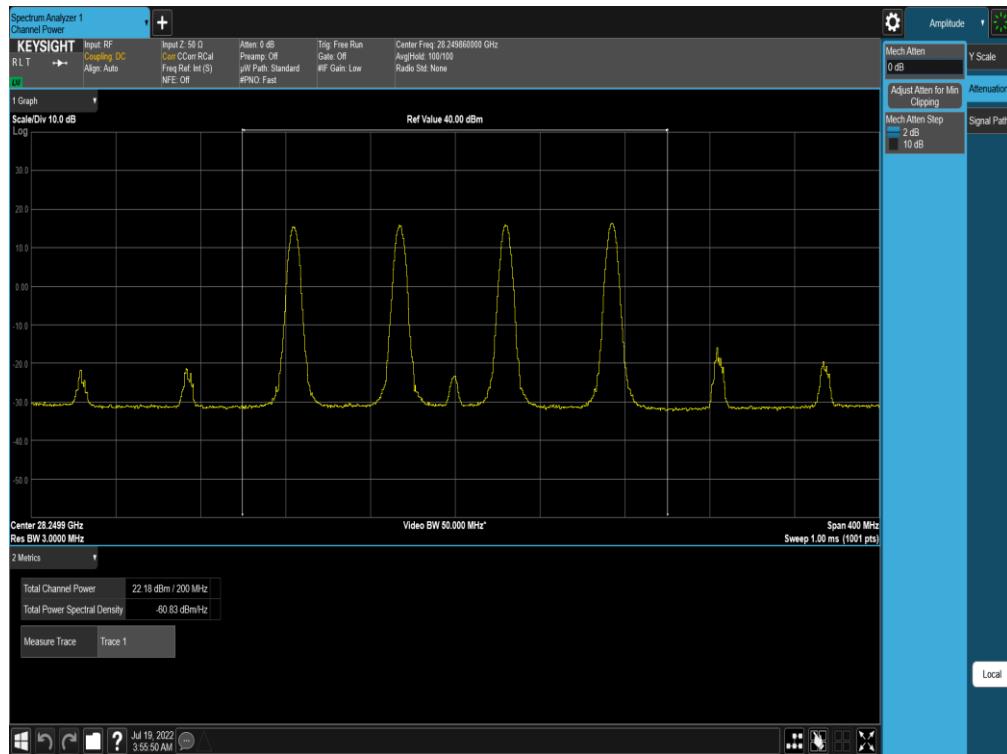


Plot 9-52. Ant M2 EIRP Plot (Band n261-50MHz-2CC SISO Dual Pol DFTs-OFDM – QPSK – High Channel)

FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device		Page 964 of 999

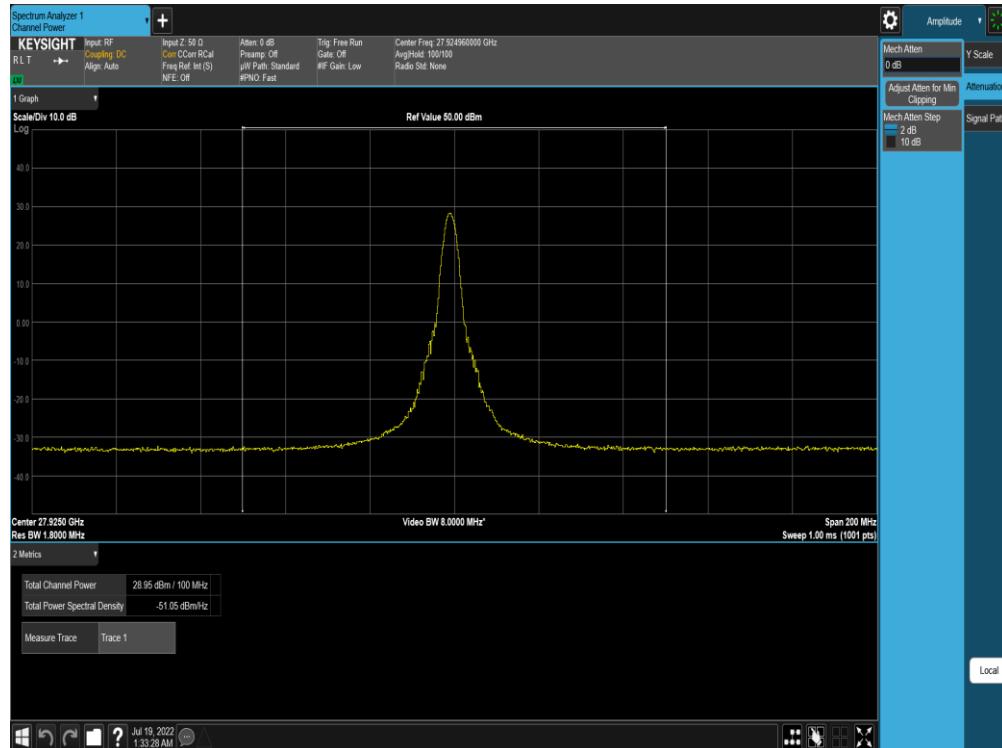


Plot 9-53. Ant M2 EIRP Plot (Band n261-50MHz-3CC SISO Dual Pol DFTs-OFDM – QPSK – High Channel)



Plot 9-54. Ant M2 EIRP Plot (Band n261-50MHz-4CC SISO Dual Pol DFTs-OFDM – QPSK – High Channel)

FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device		Page 965 of 999

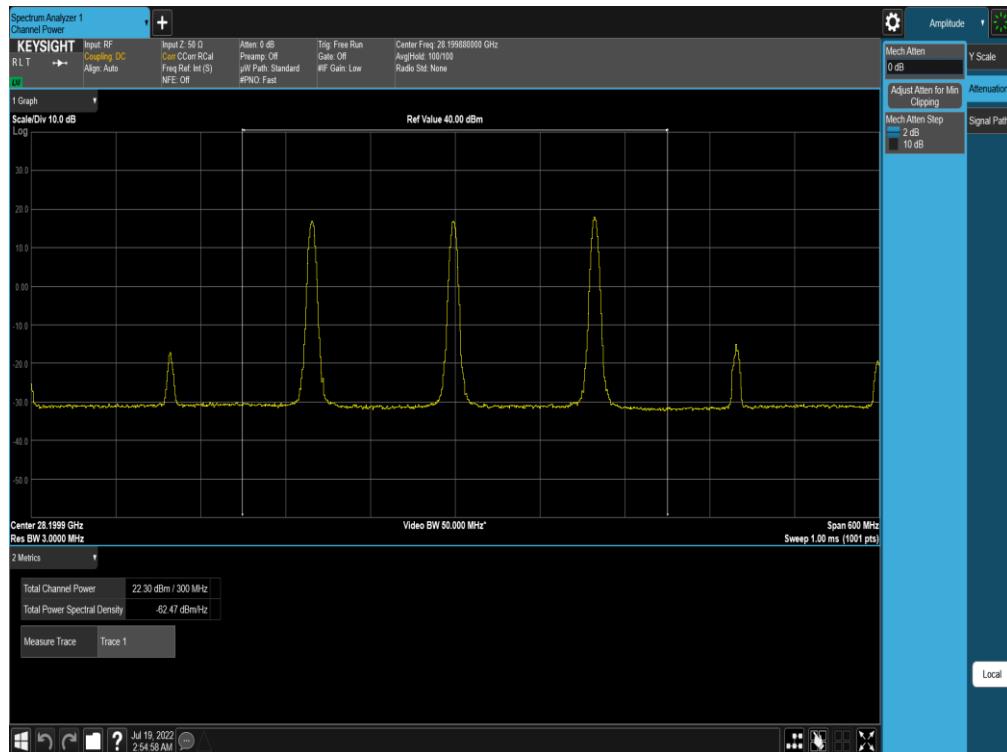


Plot 9-55. Ant M2 EIRP Plot (Band n261-100MHz-1CC SISO Dual Pol DFTs-OFDM – QPSK – Mid Channel)

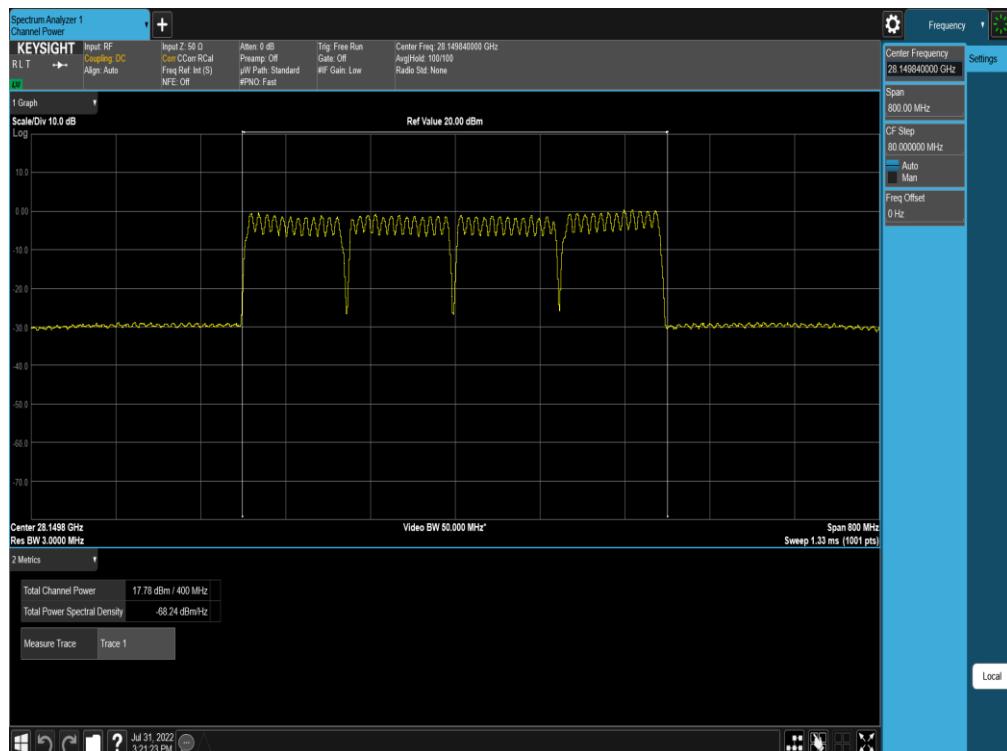


Plot 9-56. Ant M2 EIRP Plot (Band n261-100MHz-2CC SISO Dual Pol DFTs-OFDM – π/2 BPSK – High Channel)

FCC ID: BCGA2764	 element	PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device		Page 966 of 999



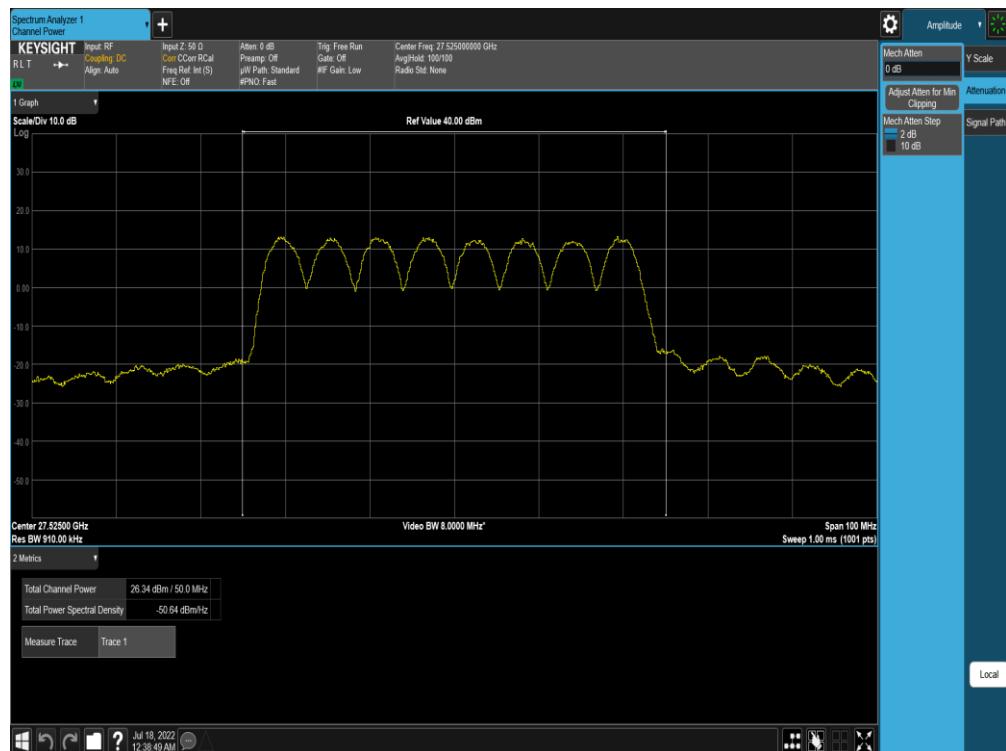
Plot 9-57. Ant M2 EIRP Plot (Band n261-100MHz-3CC SISO Dual Pol DFTs-OFDM – QPSK – High Channel)



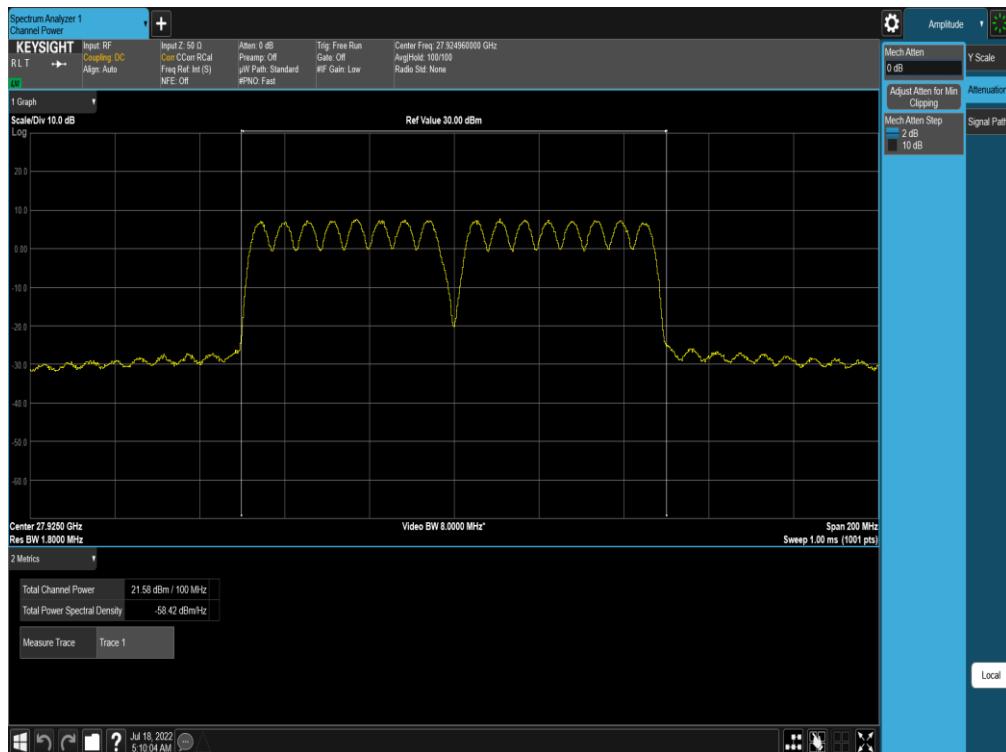
Plot 9-58. Ant M2 EIRP Plot (Band n261-100MHz-4CC SISO Dual Pol DFTs-OFDM – QPSK– High Channel)

FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device		Page 967 of 999

9.1.9 Band n261 – Ant M3

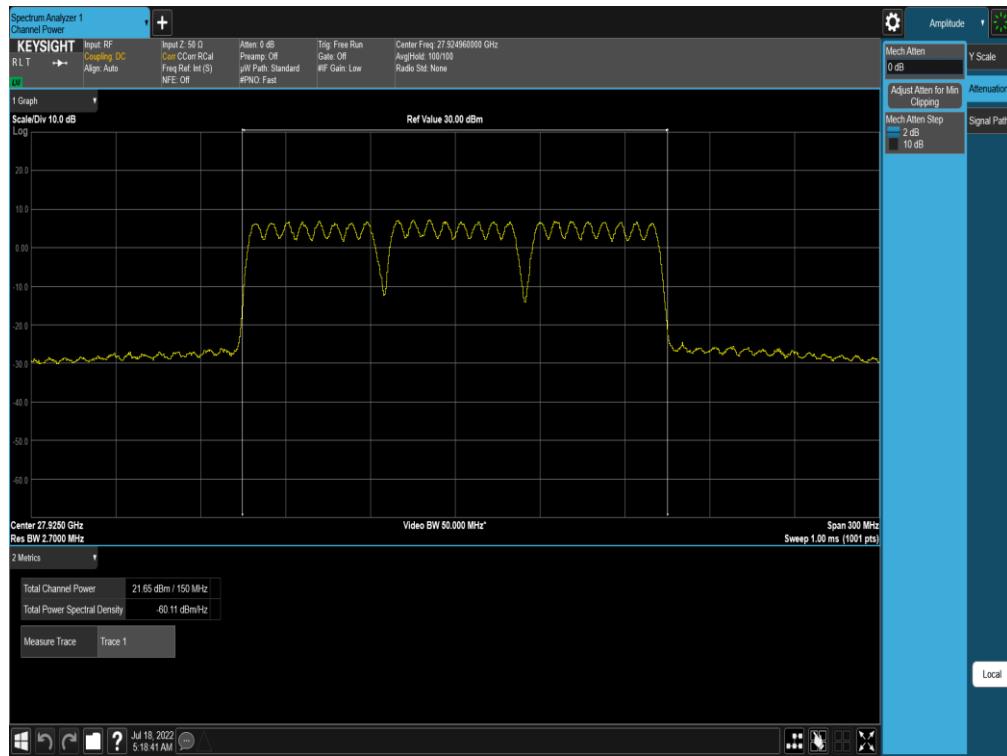


Plot 9-59. Ant M3 EIRP Plot (Band n261-50MHz-1CC SISO Dual Pol DFTs-OFDM – QPSK- Low Channel)

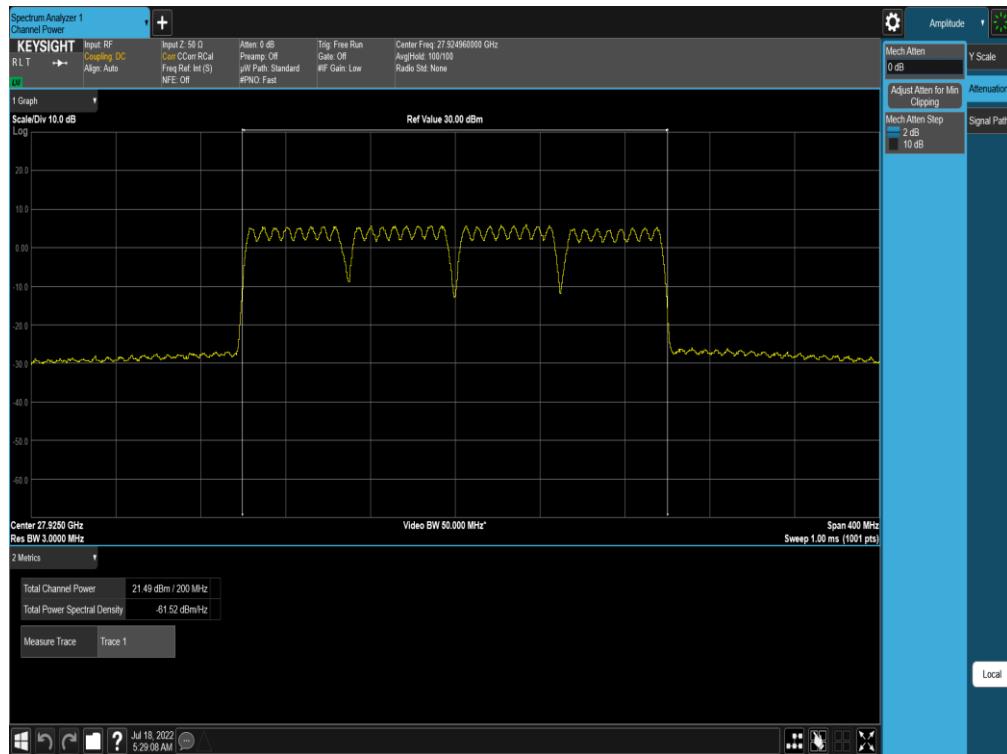


Plot 9-60. Ant M3 EIRP Plot (Band n261-50MHz-2CC MIMO CP-OFDM – 16QAM – Mid Channel)

FCC ID: BCGA2764	 element		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device		Page 968 of 999

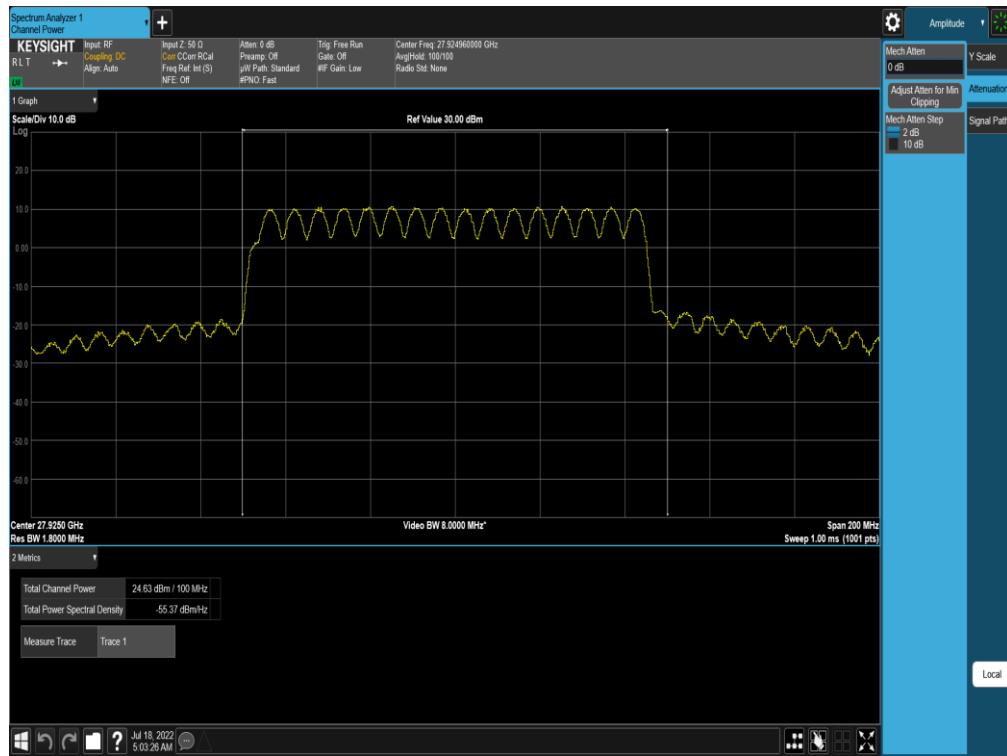


Plot 9-61. Ant M3 EIRP Plot (Band n261-50MHz-3CC MIMO CP-OFDM – QPSK – Mid Channel)

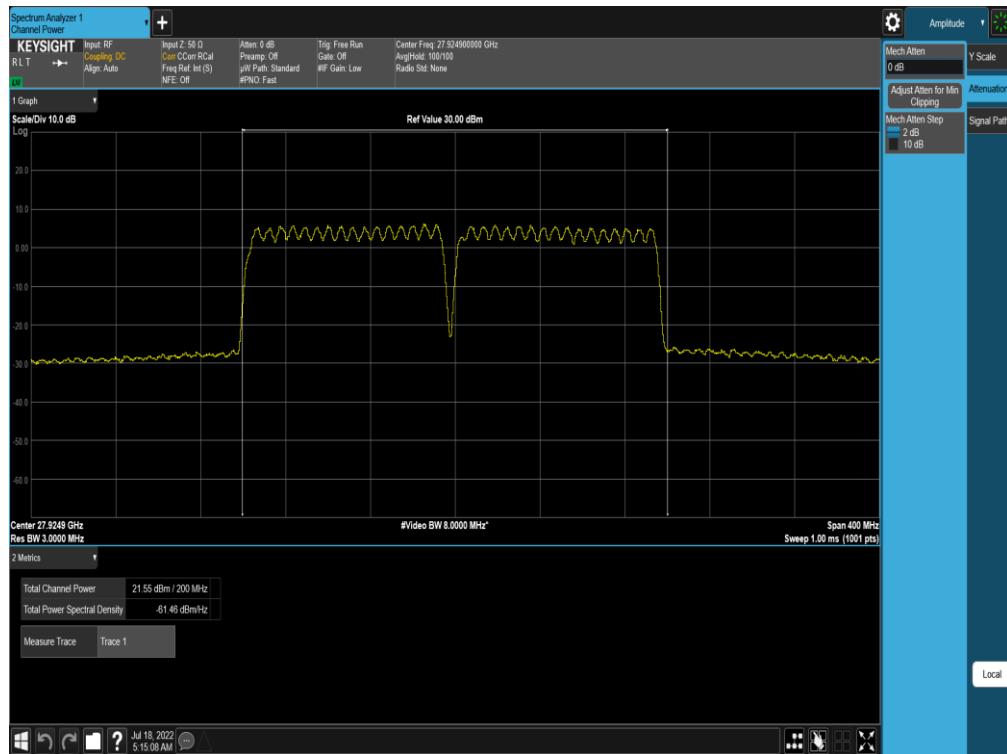


Plot 9-62. Ant M3 EIRP Plot (Band n261-50MHz-4CC MIMO CP-OFDM – QPSK – Mid Channel)

FCC ID: BCGA2764	 PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device	Page 969 of 999

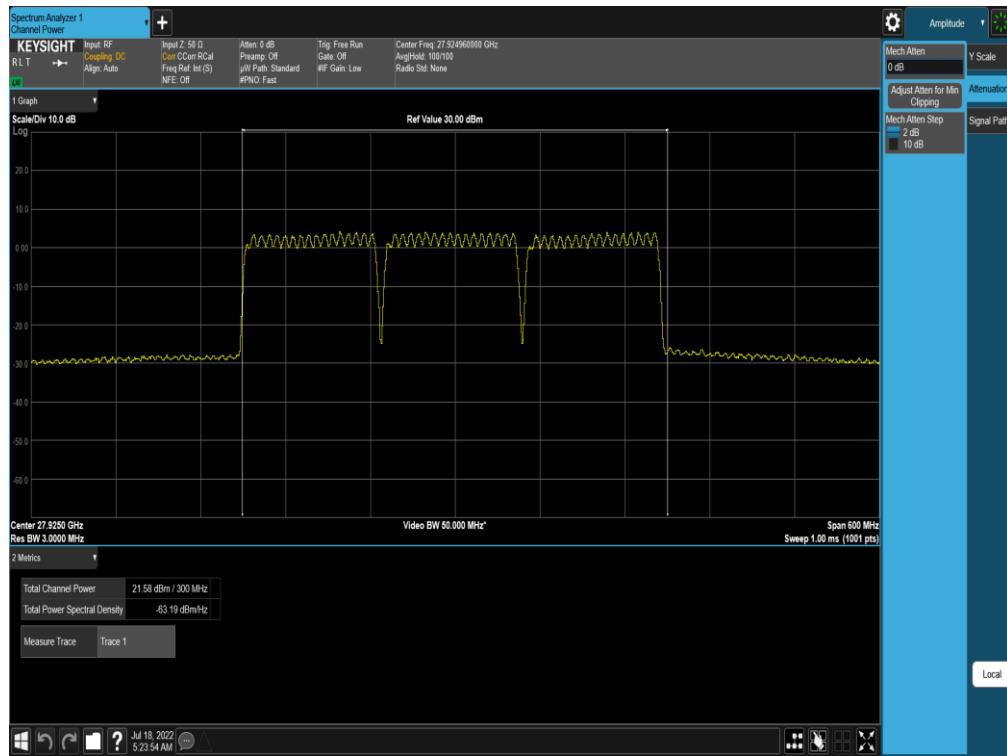


Plot 9-63. Ant M3 EIRP Plot (Band n261-100MHz-1CC MIMO CP-OFDM – QPSK – Mid Channel)

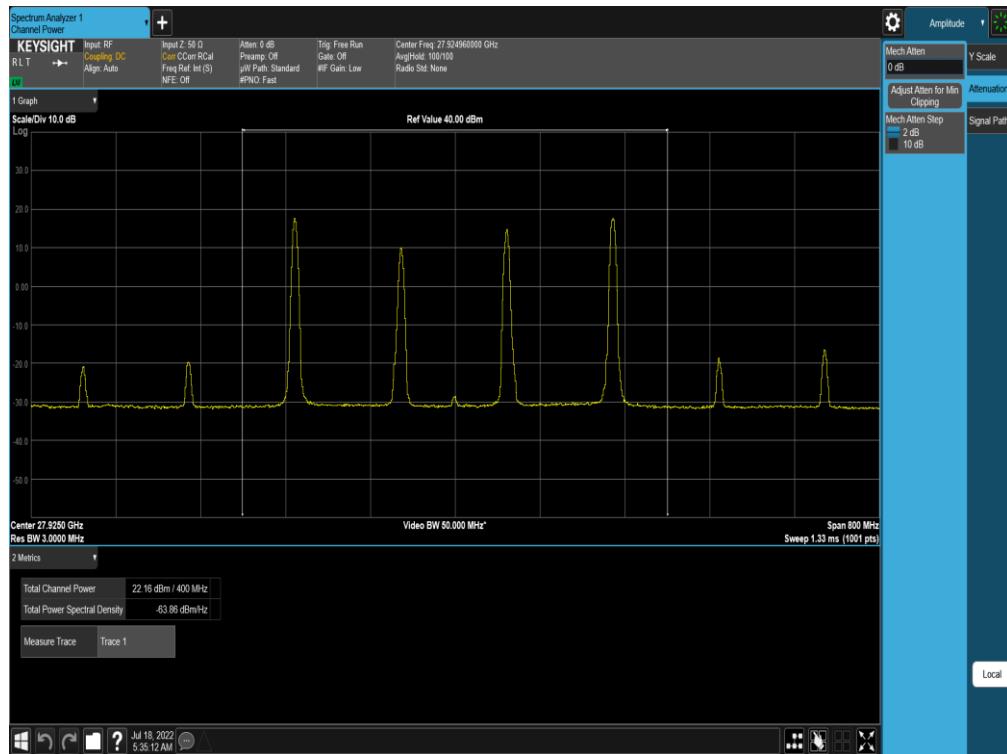


Plot 9-64. Ant M3 EIRP Plot (Band n261-100MHz-2CC MIMO CP-OFDM – 16QAM – Mid Channel)

FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device		Page 970 of 999



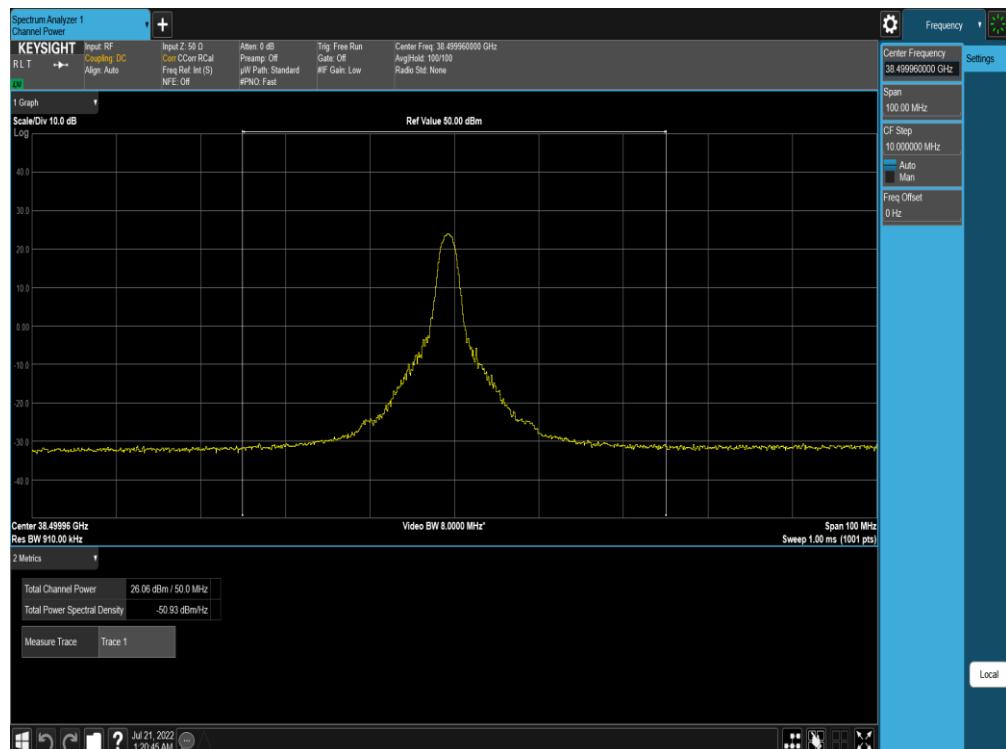
Plot 9-65. Ant M3 EIRP Plot (Band n261-100MHz-3CC MIMO CP-OFDM – QPSK – Mid Channel)



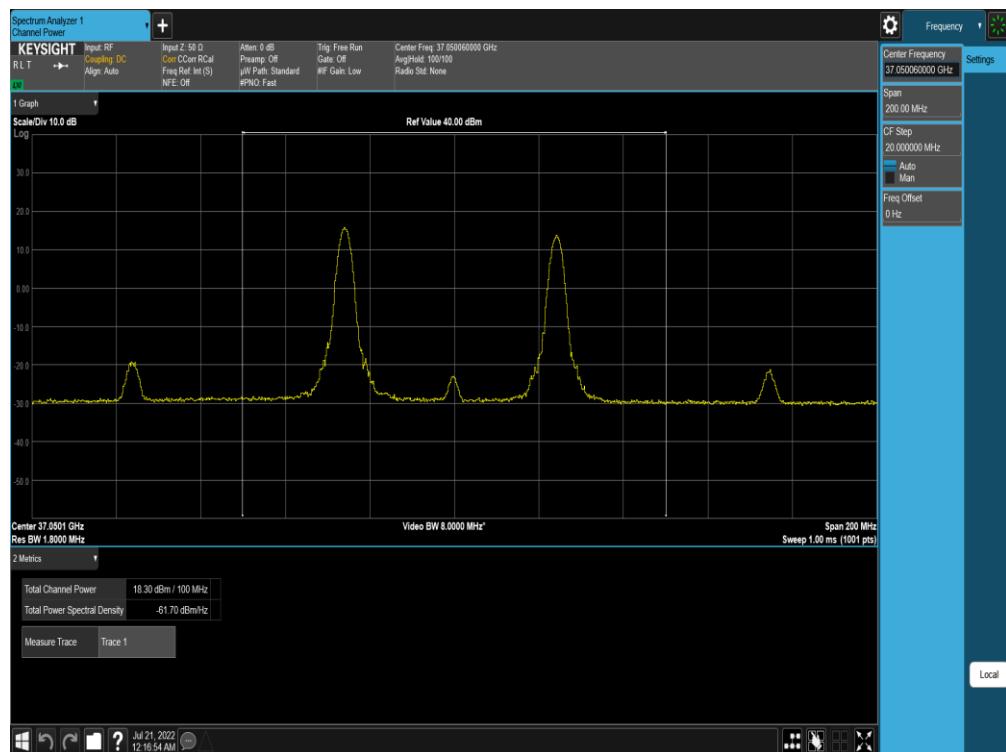
Plot 9-66. Ant M3 EIRP Plot (Band n261-100MHz-4CC MIMO CP-OFDM – QPSK – Mid Channel)

FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device		Page 971 of 999

9.1.10 Band n260 – Ant M0

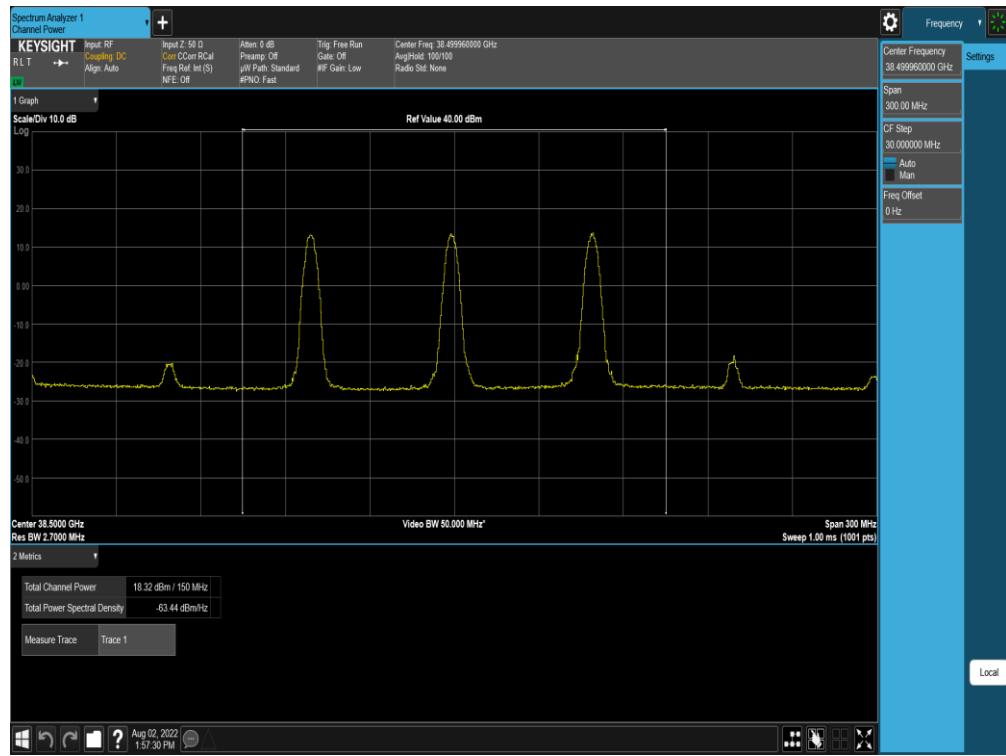


Plot 9-67. Ant M0 EIRP Plot (Band n260-50MHz-1CC SISO Dual Pol DFTs-OFDM – QPSK – Mid Channel)

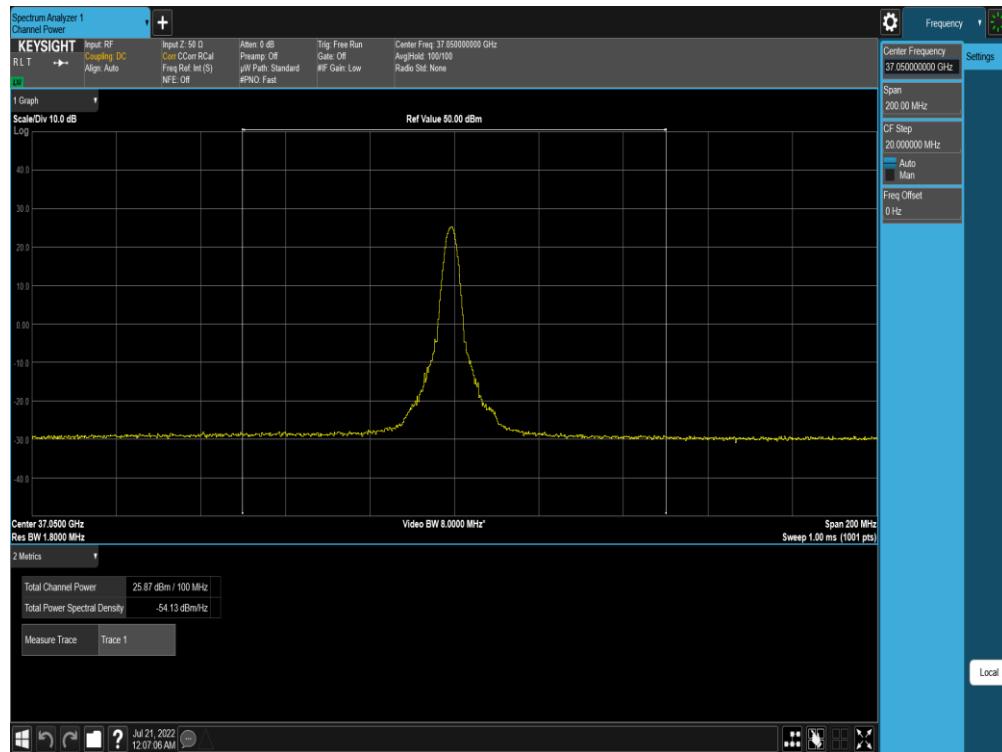


Plot 9-68. Ant M0 EIRP Plot (Band n260-50MHz-2CC SISO Dual Pol DFTs-OFDM – QPSK – Low Channel)

FCC ID: BCGA2764	 element		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device		Page 972 of 999



FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device		Page 973 of 999



Plot 9-71. Ant M0 EIRP Plot (Band n260-100MHz-1CC SISO Dual Pol DFTs-OFDM – $\pi/2$ BPSK – Low Channel)



Plot 9-72. Ant M0 EIRP Plot (Band n260-100MHz-2CC SISO Dual Pol DFTs-OFDM – $\pi/2$ BPSK – High Channel)

FCC ID: BCGA2764	 PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device	Page 974 of 999



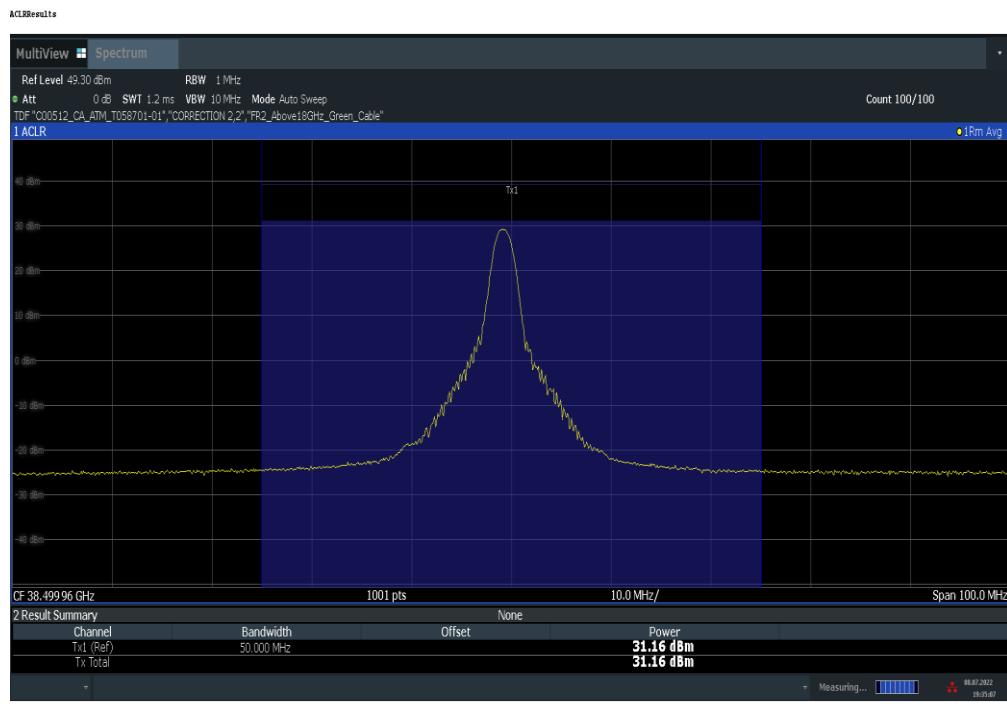
Plot 9-73. Ant M0 EIRP Plot (Band n260-100MHz-3CC SISO Dual Pol DFTs-OFDM – QPSK – Mid Channel)



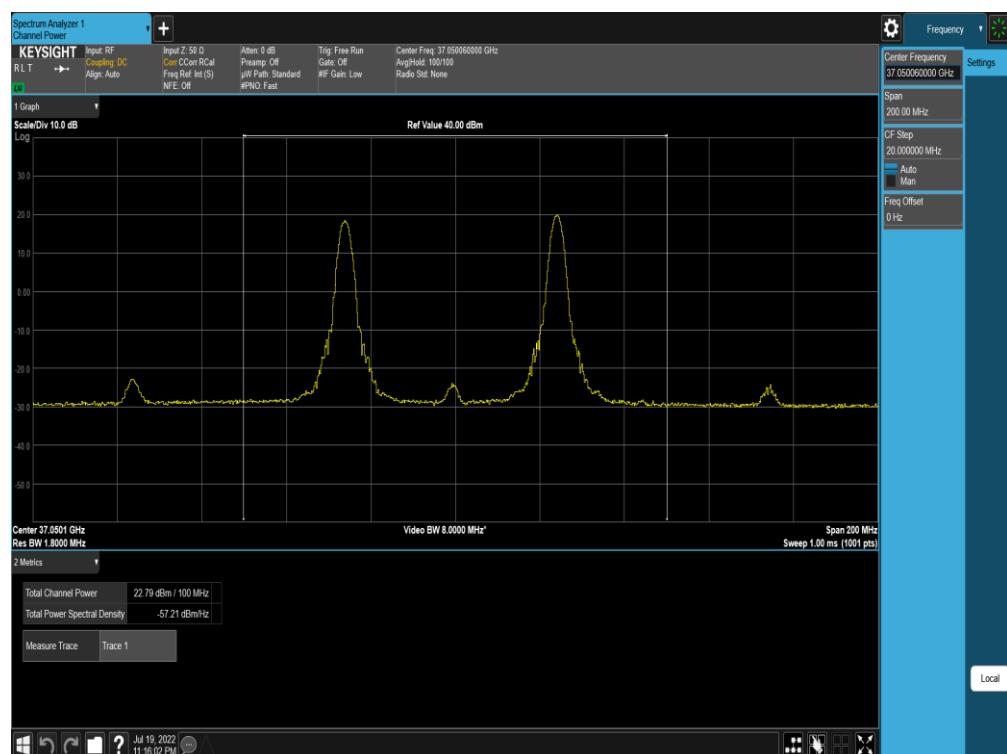
Plot 9-74. Ant M0 EIRP Plot (Band n260-100MHz-4CC SISO Dual Pol DFTs-OFDM – 16QAM – Low Channel)

FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device		Page 975 of 999

9.1.11 Band n260 – Ant M2

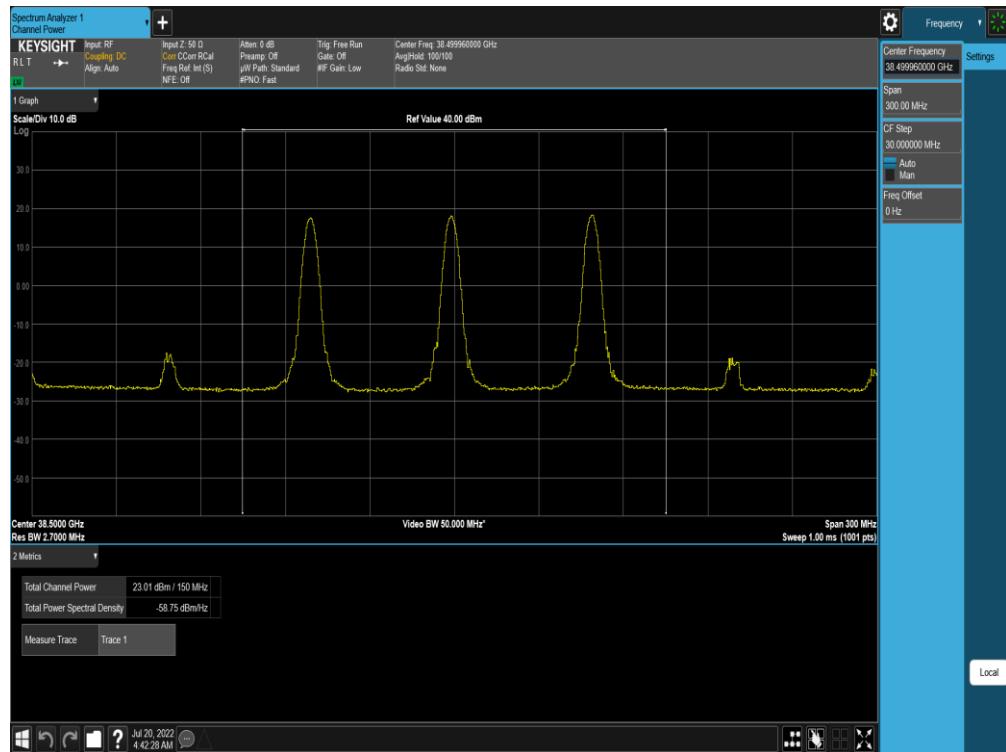
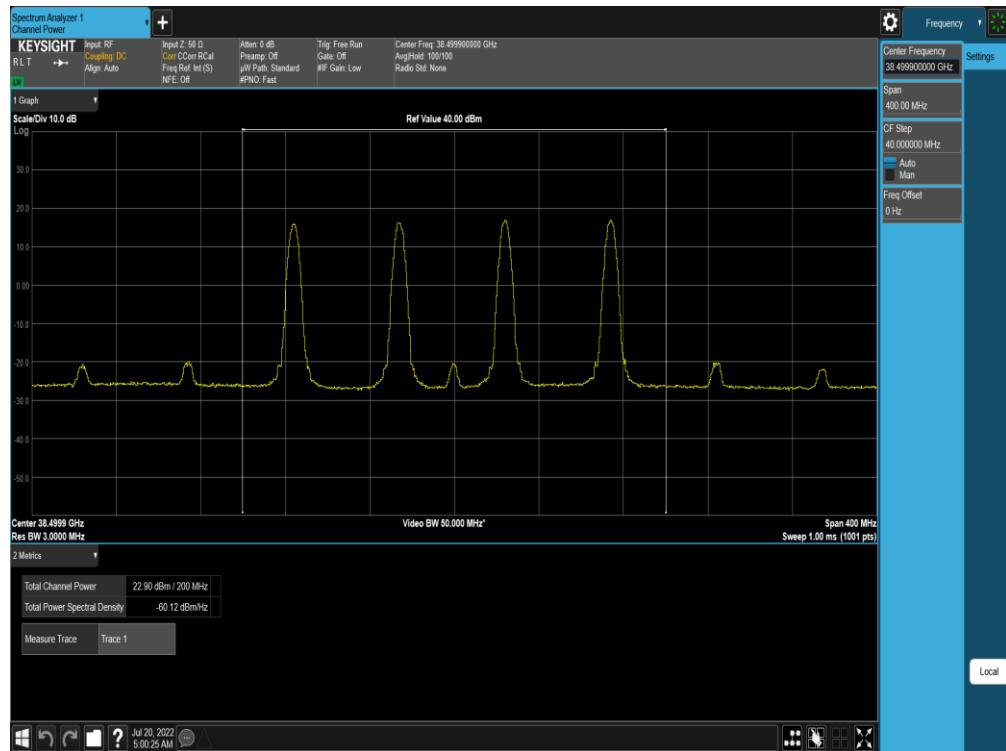


Plot 9-75. Ant M2 EIRP Plot (Band n260-50MHz-1CC SISO Dual Pol DFTs-OFDM – QPSK – Mid Channel)

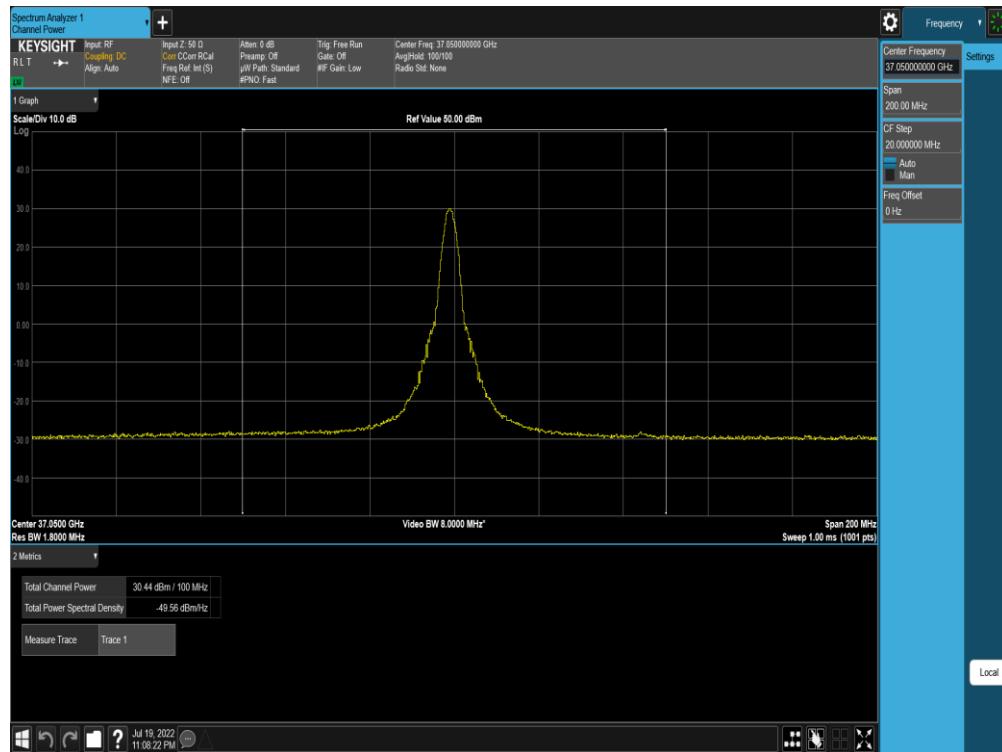


Plot 9-76. Ant M2 EIRP Plot (Band n260-50MHz-2CC SISO Dual Pol DFTs-OFDM – QPSK – Low Channel)

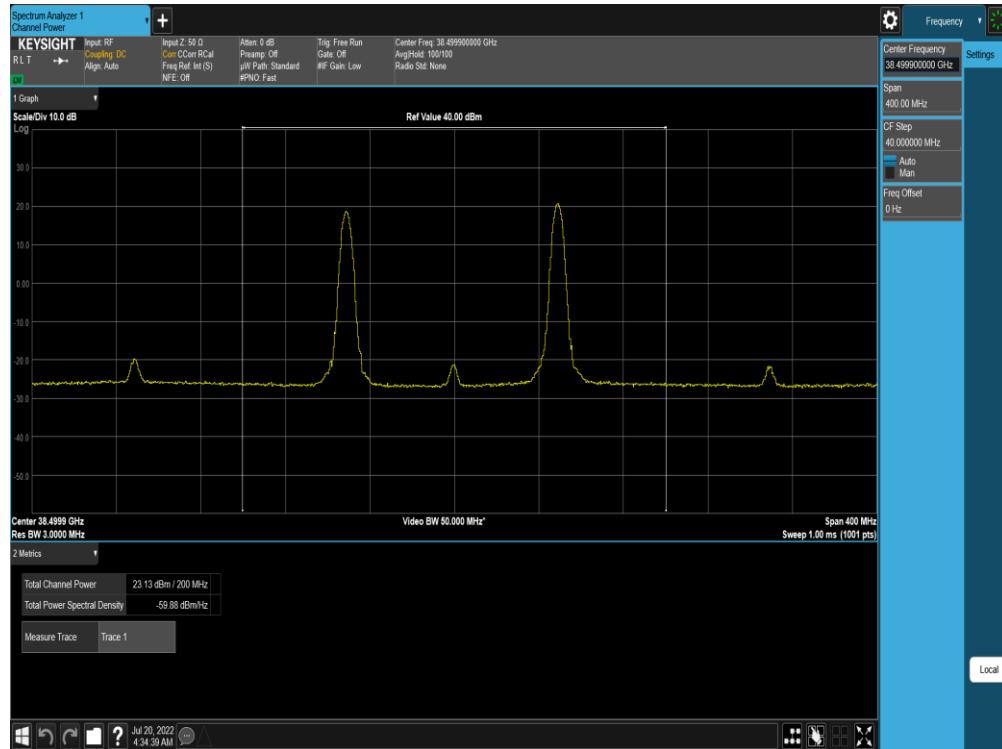
FCC ID: BCGA2764	 element		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device		Page 976 of 999


Plot 9-77. Ant M2 EIRP Plot (Band n260-50MHz-3CC SISO Dual Pol DFTs-OFDM – QPSK – Mid Channel)

Plot 9-78. Ant M2 EIRP Plot (Band n260-50MHz-4CC SISO Dual Pol DFTs-OFDM – 16QAM – Mid Channel)

FCC ID: BCGA2764	 PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device	Page 977 of 999



Plot 9-79. Ant M2 EIRP Plot (Band n260-100MHz-1CC SISO Dual Pol DFTs-OFDM – QPSK – Low Channel)

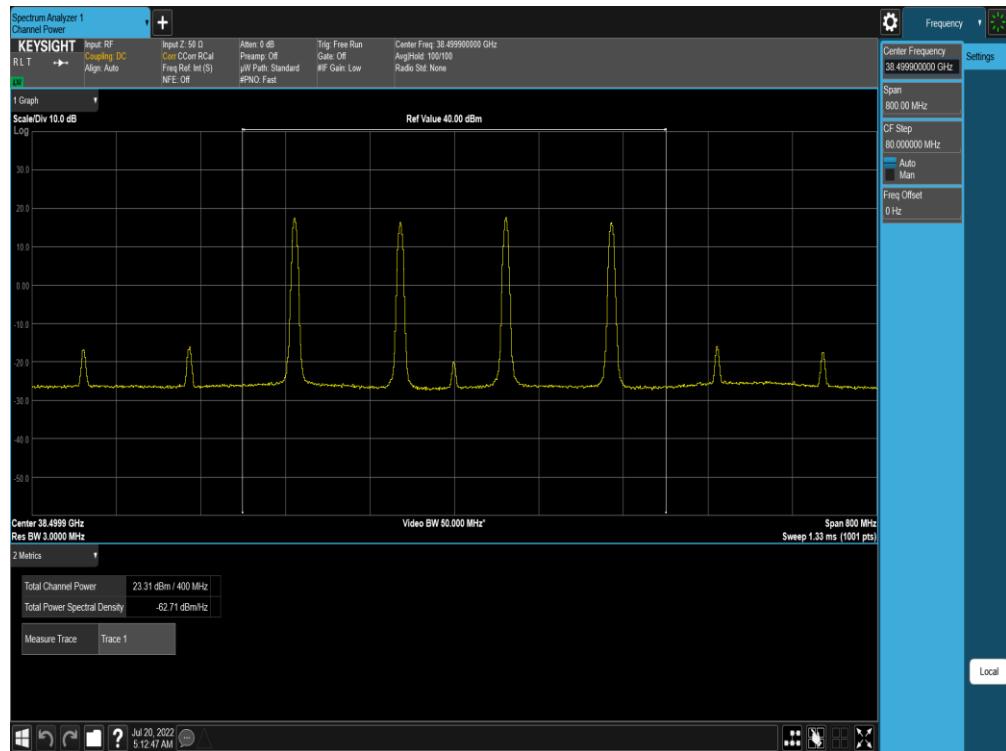


Plot 9-80. Ant M2 EIRP Plot (Band n260-100MHz-2CC SISO Dual Pol DFTs-OFDM – QPSK – Mid Channel)

FCC ID: BCGA2764	 PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device	Page 978 of 999



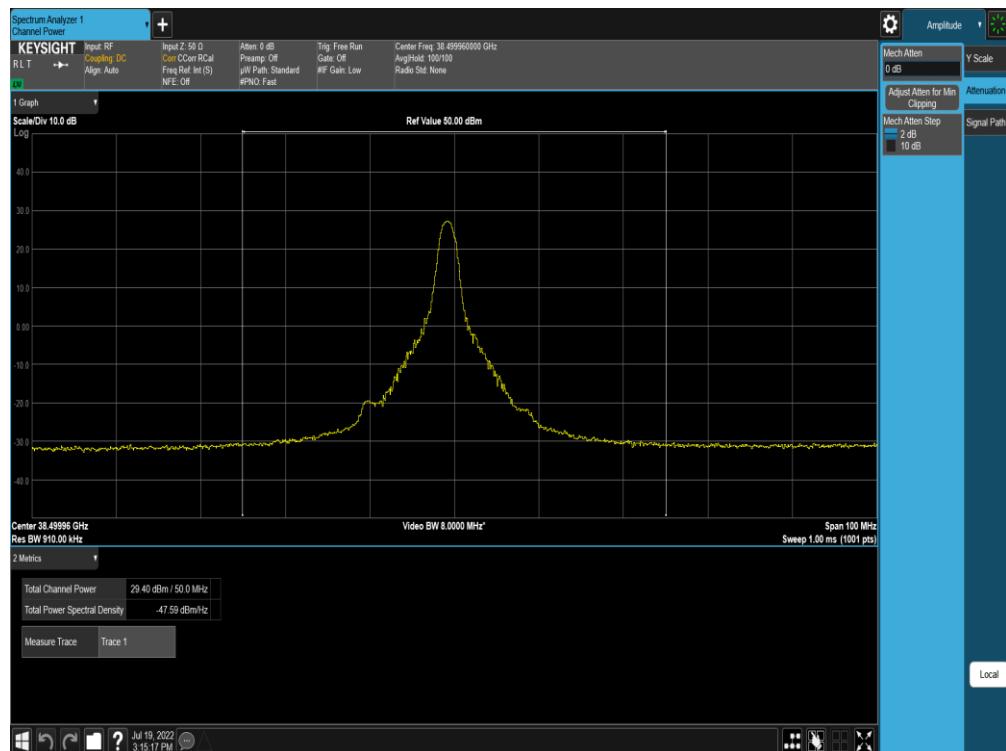
Plot 9-81. Ant M2 EIRP Plot (Band n260-100MHz-3CC SISO Dual Pol DFTs-OFDM – QPSK – Mid Channel)



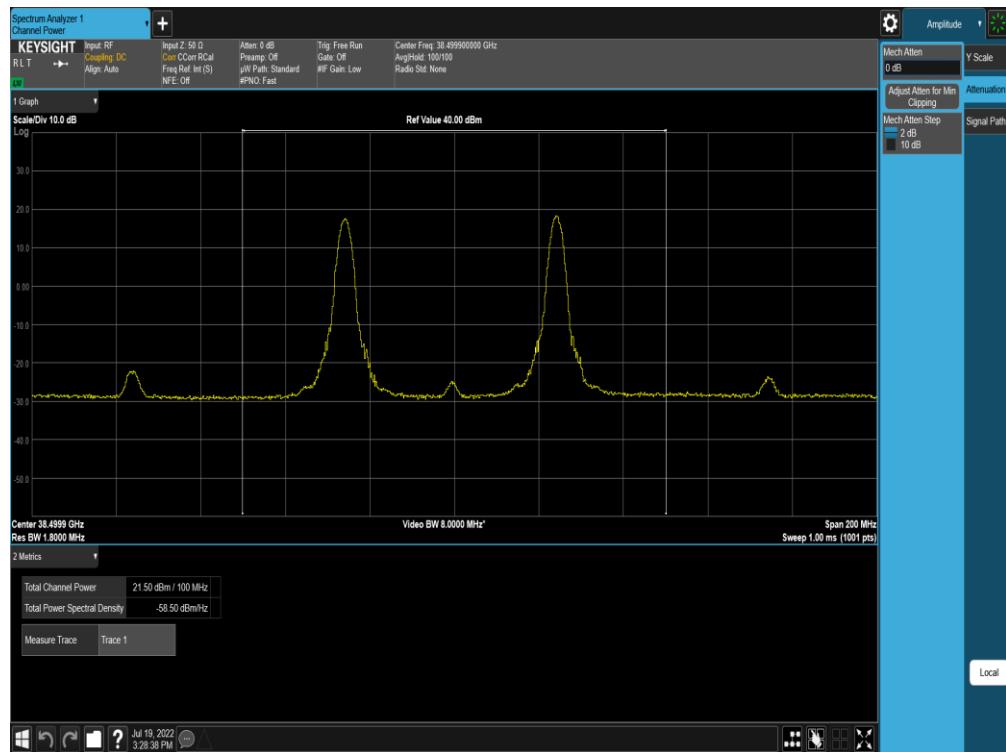
Plot 9-82. Ant M2 EIRP Plot (Band n260-100MHz-4CC SISO Dual Pol DFTs-OFDM – 16QAM – Mid Channel)

FCC ID: BCGA2764	 PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device	Page 979 of 999

9.1.12 Band n260 – Ant M3

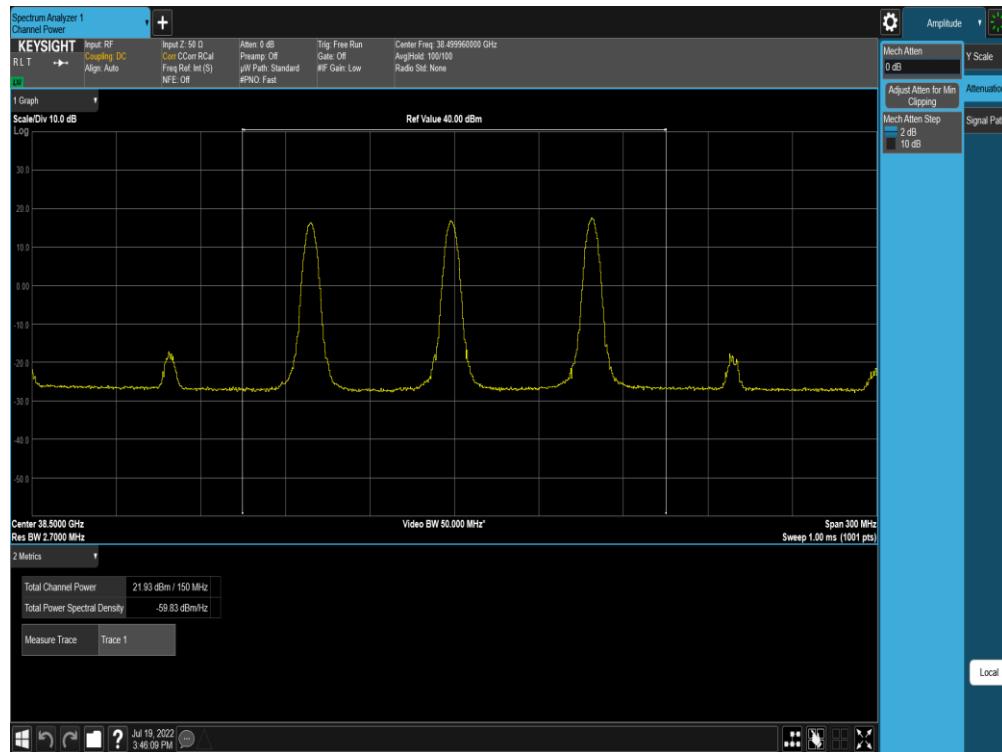


Plot 9-83. Ant M3 EIRP Plot (Band n260-50MHz-1CC SISO Dual Pol DFTs-OFDM – QPSK- Mid Channel)

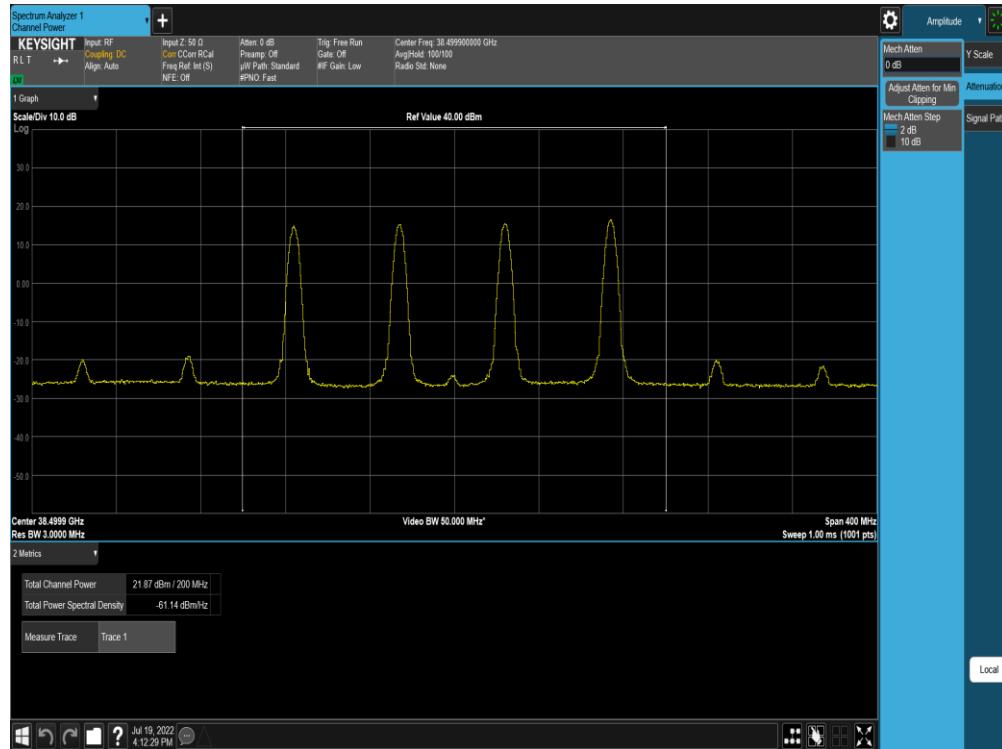


Plot 9-84. Ant M3 EIRP Plot (Band n260-50MHz-2CC SISO Dual Pol DFTs-OFDM – π/2 BPSK – Mid Channel)

FCC ID: BCGA2764	 PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device	Page 980 of 999

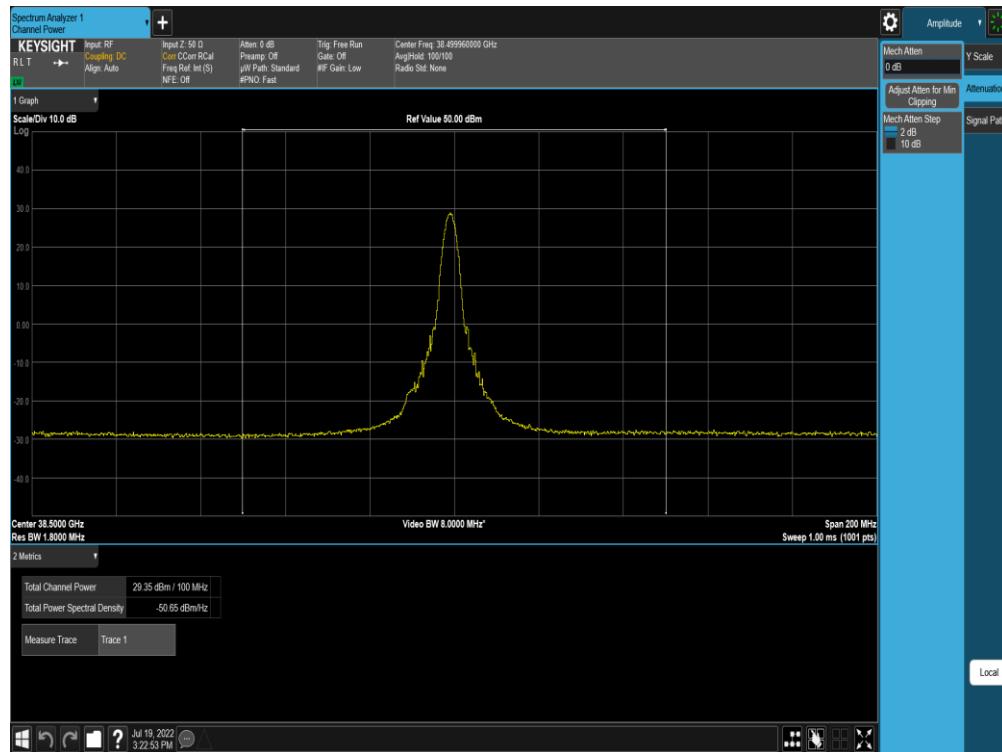


Plot 9-85. Ant M3 EIRP Plot (Band n260-50MHz-3CC SISO Dual Pol DFTs-OFDM – QPSK – Mid Channel)

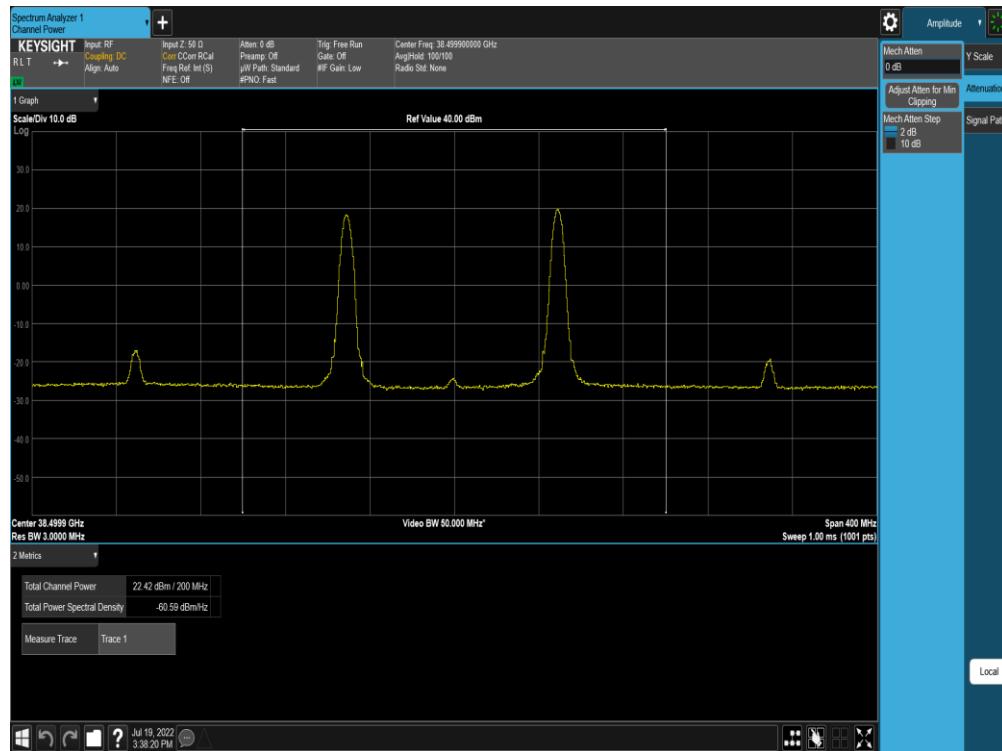


Plot 9-86. Ant M3 EIRP Plot (Band n260-50MHz-4CC SISO Dual Pol DFTs-OFDM – $\pi/2$ BPSK – Mid Channel)

FCC ID: BCGA2764	 PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device	Page 981 of 999



Plot 9-87. Ant M3 EIRP Plot (Band n260-100MHz-1CC SISO Dual Pol DFTs-OFDM – QPSK – Mid Channel)

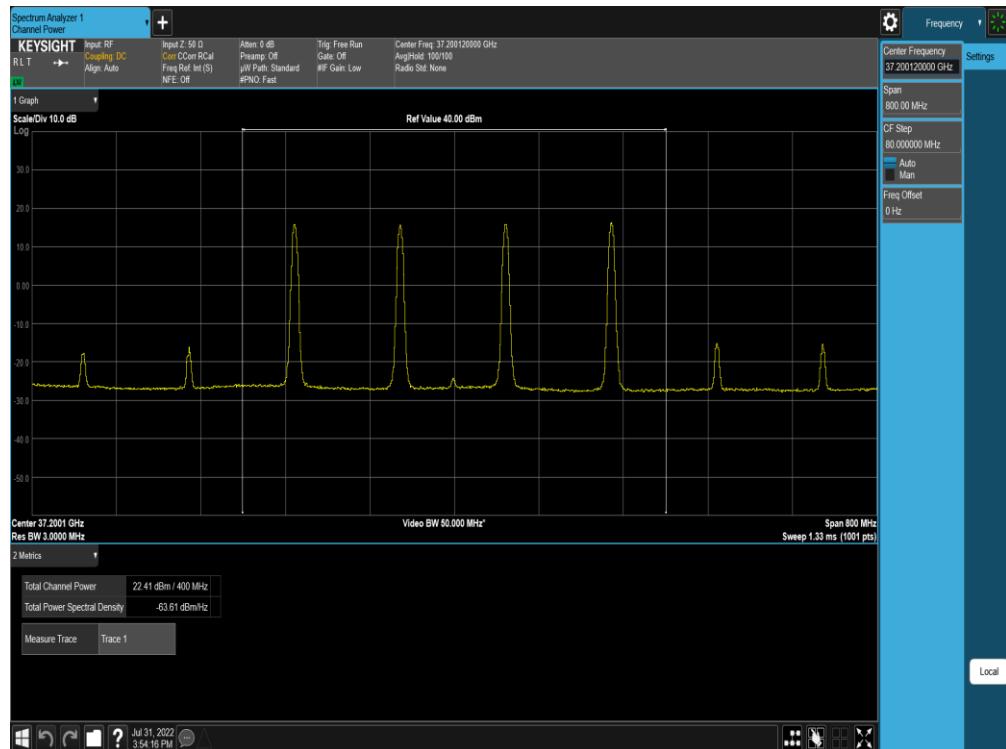


Plot 9-88. Ant M3 EIRP Plot (Band n260-100MHz-2CC SISO Dual Pol DFTs-OFDM – QPSK – Mid Channel)

FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device		Page 982 of 999



Plot 9-89. Ant M3 EIRP Plot (Band n260-100MHz-3CC SISO Dual Pol DFTs-OFDM – π/2 BPSK – Mid Channel)



Plot 9-90. Ant M3 EIRP Plot (Band n260-100MHz-4CC SISO Dual Pol DFTs-OFDM – 16QAM – Low Channel)

FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device		Page 983 of 999

10.0 APPENDIX B

10.1 VDI Mixer Verification Certificate



Virginia Diodes, Inc
 979 2nd St. SE
 Suite 309
 Charlottesville, VA 22902
 Phone: 434-297-3257
 Fax: 434-297-3258

AE
 1/19/2021

Certificate of Conformance ✓

To: PCTEST Engineering Laboratory ✓
 18855 Adams Court
 Morgan Hill, CA 95037
 United States

From: Virginia Diodes, Inc ✓
 979 2nd St. SE
 Suite 309
 Charlottesville, VA 22902

Packing List No: 210076 ✓
 Shipping Date: 01/11/21

Today's Date: 01/12/21 ✓
 PO Number: 201019.NM1

Quantity	Shipped	Unit	Description	Order-Job Number
1	EA	VDIWR19.0SAX	S/N: SAX 782 ✓ 001194	20516A-01

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Authorized Signature
 Virginia Diodes, Inc

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Virginia Diodes, Inc

979 2nd St. SE
 Suite 309
 Charlottesville, VA 22902
 Phone: 434-297-3257
 Fax: 434-297-3258

AE
 11/21/2020

Certificate of Conformance ✓

To: PCTEST Engineering Laboratory ✓
 18855 Adams Court
 Morgan Hill, CA 95037
 United States

From: Virginia Diodes, Inc
 979 2nd St. SE
 Suite 309
 Charlottesville, VA 22902

Packing List No: 204092
 Shipping Date: 11/25/20

Today's Date: 11/25/20 ✓
 PO Number: 201019.NM1

Quantity	Shipped	Unit	Description	Order-Job Number
1	EA	VDIWR12.0SAX	S/N: SAX 783 ✓ C01146	20516B-01

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979 2nd St. SE
 Suite 309
 Charlottesville, VA 22902
 Phone: 434-297-3257
 Fax: 434-297-3258

AE.
 1/19/2021

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 Morgan Hill, CA 95037
 United States

From: Virginia Diodes, Inc
 979 2nd St. SE
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 Charlottesville, VA 22902

Packing List No: 204111
 Shipping Date: 12/01/20

Today's Date: 12/02/20 ✓
 PO Number: 201019.NM1

Quantity	Shipped	Unit	Description	Order-Job Number
1	EA	VDIWR8.0SAX	S/N: SAX 784 ✓ C01203	20516C-01 ✓

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2/4/2021
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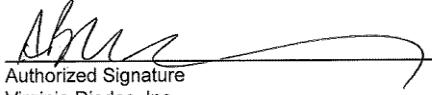
From: Virginia Diodes, Inc. ✓
 979 2nd St. SE
 Suite 309
 Charlottesville, VA 22902

Packing List No: 210383
 Shipping Date: 02/03/21

Today's Date: 02/03/21 ✓
 PO Number: 201019.NM1

Quantity	Shipped	Unit	Description	Order-Job Number
1	EA	VDIWR5.1SAX ✓	WR5.1SAX / SN: SAX 785 ✓	20516D-01

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10.2 Manufacturer's Antenna Gain Curves for Standard Gain Horn Antennas

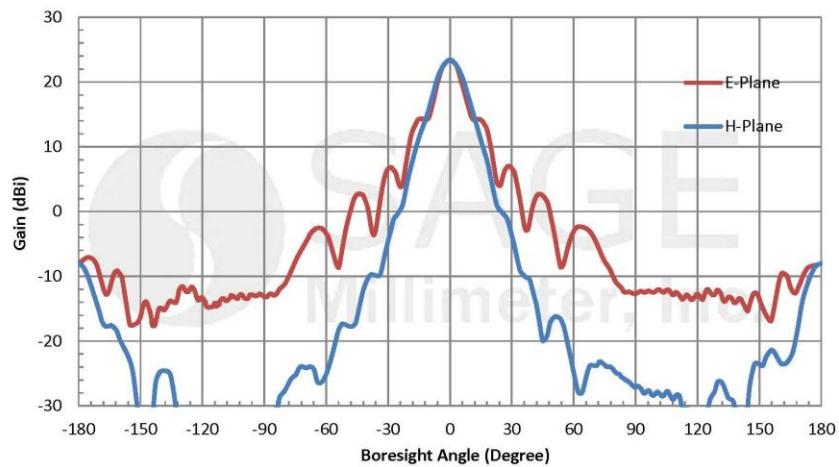
WR-19 Horn Antenna, 23 dBi Gain (40-60 GHz)

SAR-2309-19-S2

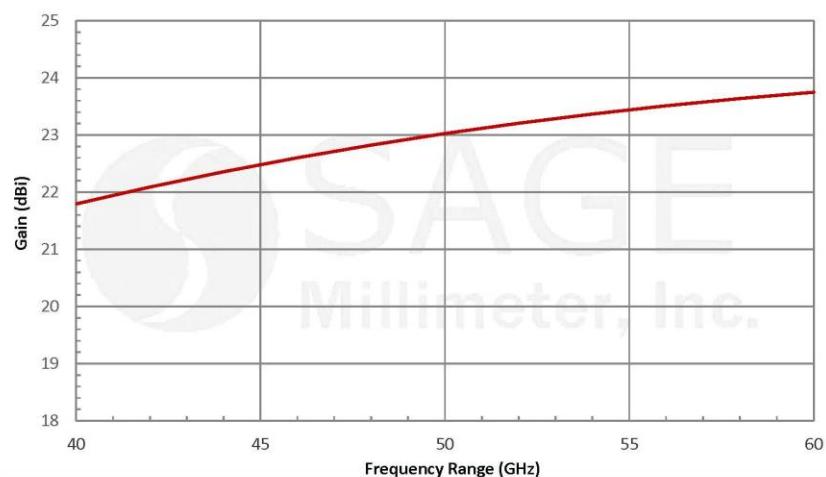
Rev. 1.1

WR-19 Pyramidal Horn Antenna, 23 dBi Gain

Typical Antenna Pattern @ 50 GHz



Typical Gain vs. Frequency



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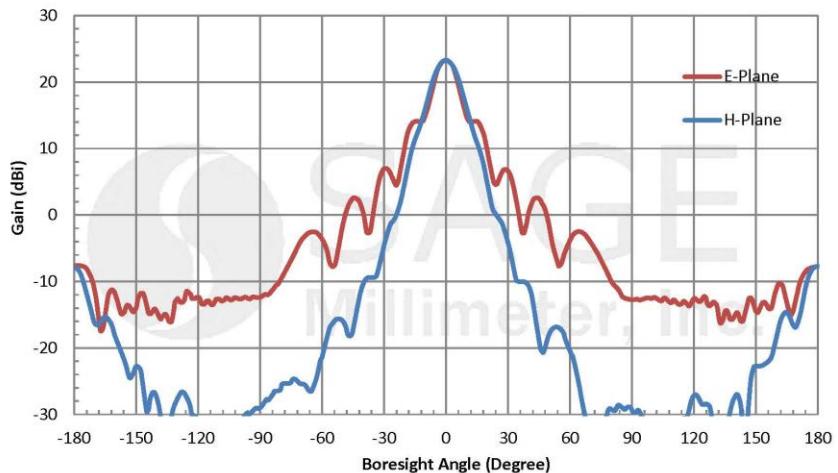
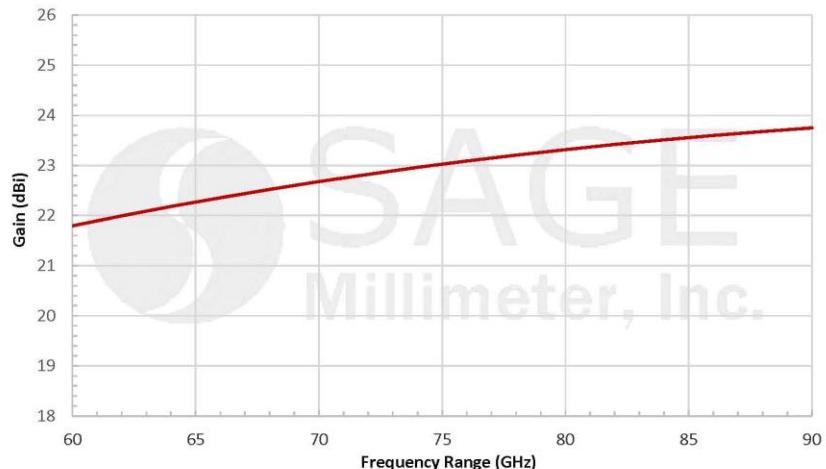
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V2.0 5/30/2022

WR-12 Horn Antenna, 23 dBi Gain (60-90 GHz)
SAR-2309-12-S2

Rev. 1.1

WR-12 Pyramidal Horn Antenna, 23 dBi Gain
Typical Antenna Pattern @ 75 GHz

Typical Gain vs. Frequency


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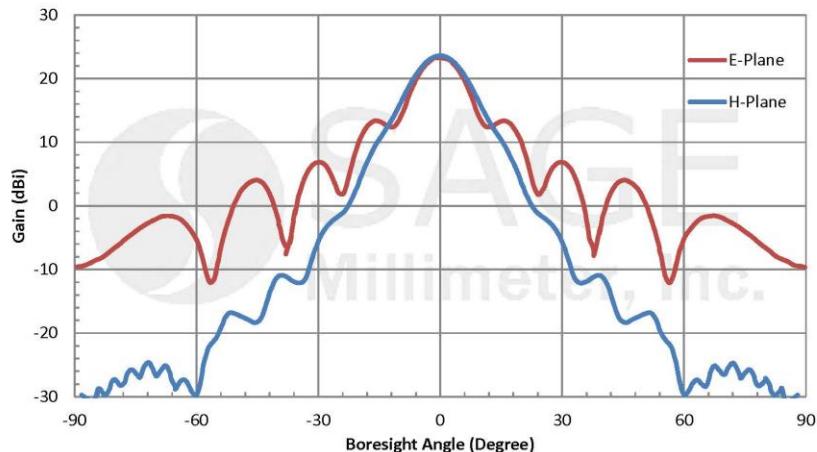
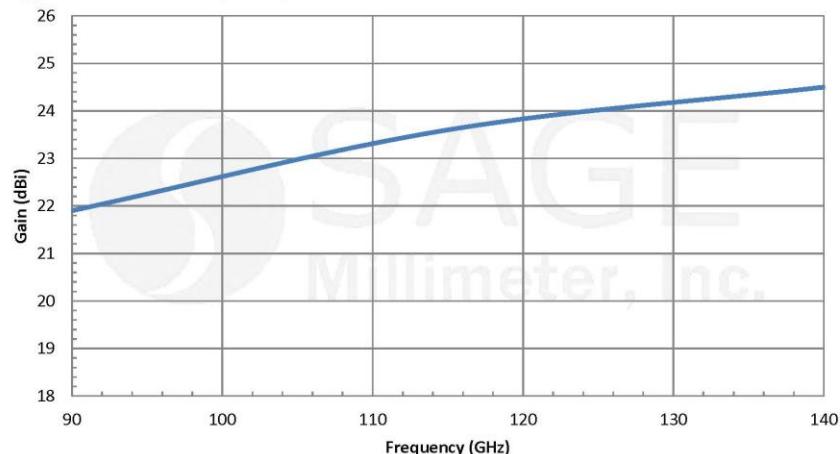
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V2.0 5/30/2022

WR-08 Horn Antenna, 23 dBi Gain (90-140 GHz)
SAR-2309-08-S2

Rev. 1.1

WR-08 Pyramidal Horn Antenna, 23 dBi Gain
Typical Antenna Pattern @ 115 GHz

Typical Gain vs. Frequency


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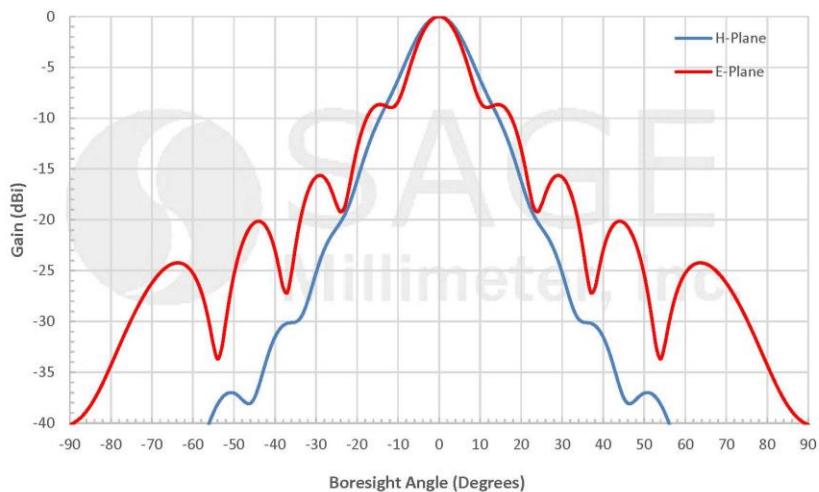
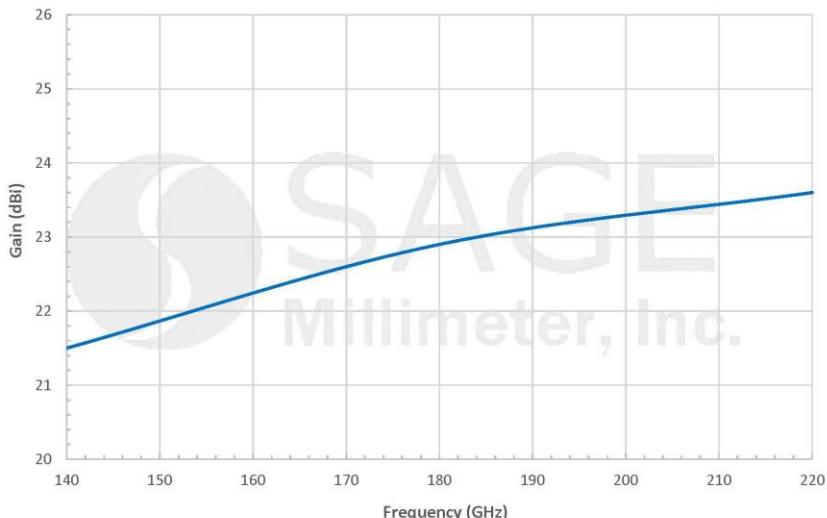
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V2.0 5/30/2022

WR-05 Horn Antenna, 23 dBi Gain (140-220 GHz)
SAR-2309-05-S2

Rev. 1.1

WR-05 Pyramidal Horn Antenna, 23 dBi Gain
Typical Antenna Pattern @ 180 GHz

Typical Gain vs. Frequency


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V2.0 5/30/2022

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