

FCC Test Report (Part 96 – NR B48)

Report No.: RFBEIH-WTW-P24110561-1

FCC ID: 2ASK5AIOID5GSC03

Test Model: Nokia AIOSC Indoor 5G n48

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Applicant: Nokia

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / 788550 / TW0003

Designation Number: 281270 / TW0032



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Release Control Record

Issue No.	Description	Date Issued
RFBEIH-WTW-P24110561-1	Original Release	2025/11/12

1 Certificate of Conformity

Product: Nokia AIOSC Indoor 5G

Brand: Nokia

Test Model: Nokia AIOSC Indoor 5G n48

Sample Status: Engineering Sample

Applicant: Nokia

Test Date: 2025/2/11 ~ 2025/9/30

Standards: 47 CFR FCC Part 96
47 CFR FCC Part 2

Measurement procedure: ANSI/TIA/EIA-603-E 2016
ANSI C63.26-2015
KDB 971168 D01 Power Meas License Digital Systems v03r01
KDB 940660 D01 Part 96 CBRS Eqpt v03
KDB 662911 D01 Multiple Transmitter Output v02r01

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Gina Liu , Date: 2025/11/12
Gina Liu / Specialist

Approved by : Jeremy Lin , Date: 2025/11/12
Jeremy Lin / Project Engineer

2 Summary of Test Results

47 CFR FCC Part 96			
FCC Clause	Test Item	Result	Remarks
2.1046 96.41(b)	Maximum EIRP	Pass	Meet the requirement of limit.
2.1047 96.41(a)	Modulation Characteristics	Pass	Meet the requirement of limit.
2.1046 96.41(b)	Maximum Power Spectral Density	Pass	Meet the requirement of limit.
96.41(g)	Peak to Average Ration	Pass	Meet the requirement of limit.
2.1049	Bandwidth	Pass	Meet the requirement of limit.
2.1055	Frequency Stability	Pass	Meet the requirement of limit.
2.1051 96.41(e)	Conducted Spurious Emissions	Pass	Meet the requirement of limit.
2.1053 96.41(e)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -2.90dB at 69.45MHz.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) ($\pm$)
Effective Radiated Power and Equivalent Isotropically Radiated Power	-	1.371 dB
Peak to Average Ratio	-	0.920 dB
Bandwidth	-	960 Hz
Frequency Stability	-	0.176 ppm
Conducted Spurious Emissions	-	2.12 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.00 dB
	30MHz ~ 1000MHz	2.93 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	1.76 dB
	18GHz ~ 40GHz	1.77 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Nokia AIO SC Indoor 5G		
Brand	Nokia		
Test Model	Nokia AIO SC Indoor 5G n48		
Sample Status	Engineering Sample		
Power Supply Rating	Refer to Note		
Modulation Type	QPSK, 64QAM, 256QAM		
Operating Frequency	NR Band 48 (Channel Bandwidth 10MHz)	3555.00MHz ~ 3694.98MHz	
	NR Band 48 (Channel Bandwidth 20MHz)	3560.01MHz ~ 3690.00MHz	
	NR Band 48 (Channel Bandwidth 40MHz)	3570.00MHz ~ 3679.98MHz	
EUT Category	Category A		

Note:

1. The EUT uses following accessories.

Item	Brand	Model	Specification
AC Adapter 1	Mass Power Electronics Inc.	NBS100A120600M2	AC Input : 100-240Vac, 50/60Hz, 1.6A DC Output : 12.0V, 6.0A, 72.0W DC Output Cable : 2pin, 1.5m non shielded without core
AC Adapter 2	Mass Power Electronics Inc.	NBS100A120600M3	AC Input : 100-240Vac, 50/60Hz, 1.6A DC Output : 12.0V, 6.0A, 72.0W DC Output Cable : 3pin, 1.5m non shielded without core

* After pre-tested all the adapters and found adapter 1 was the worst. Therefore, only adapter 1 was for the final test and presented in the test report.

2. The EUT supports the following configuration.

5G NR	FCC 5G FR1	
	1CC_SCS_30kHz	2CC_SCS_30kHz
Bandwidth (MHz)	10/20/40	10+20 / 20+10 / 20+20

3. Non-support 16QAM modulation bandwidth.

4. The following antennas were provided to the EUT.

<Internal antenna>

	Antenna 1	Antenna 2	Antenna 3	Antenna 4
Antenna Type	Dipole	Dipole	PIFA	PIFA
Connector Type	MMCX	MMCX	MMCX	MMCX
Frequency Range	Antenna Gain (dBi)			
3450MHz	3.67	3.61	4.02	3.85
3550MHz	3.83	4.12	4.33	4.15
3700MHz	4.37	4.06	4.58	4.32
3800MHz	4.59	4.34	4.26	4.29
3980MHz	4.32	4.27	4.34	4.36
4200MHz	4.24	4.09	4.25	4.14

Note:

- Correlated Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2/2] = 5.52\text{dBi}$
- This device operates with Multiple Antennas Using Multiple-input, Multiple-output (MIMO) Technology for correlated Transmission.
- The device has 4 FR1 antennas, where Ant 1 & 2 are horizontal polarization and Ant 3 & 4 are vertical polarization. These two co-polarized antenna pairs are with orthogonal polarization to each other.
- According to the regulation KDB 662911, the correlated gain for Ant 1 & 2 and Ant 3 & 4 can be calculated respectively. Then select the maximum value between them as directional gain

<External antenna>

Antenna Type	Omni	Omni	Directional
Connector Type	4.3-10 Female	4.3-10 Female	4.3-10 Female
Mode	CMAX-OMF7-43-UWI53	CMAX-OMF9-43-UWI53	CMAX-DMF4-43-WI53
Brand	Cell-Max™	Cell-Max™	Cell-Max™
Frequency Range	Antenna Gain (dBi)		
3300-4200MHz	5.5	5.2	7.7

*The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

**The product is an indoor Small Cell, with built-in antenna as the primary usage scenario.

5. EUT Overview

Mode A1

NR Band 48			
Bandwidth	Max. EIRP Power (Per 10M Power)		
	QPSK	64QAM	256QAM
Channel Bandwidth 10MHz	788.860 mW (28.97dBm/10MHz)	778.037 mW (28.91dBm/10MHz)	763.836 mW (28.83dBm/10MHz)
Channel Bandwidth 20MHz	864.968 mW (29.37dBm/10MHz)	841.395 mW (29.25dBm/10MHz)	829.851 mW (29.19dBm/10MHz)
Channel Bandwidth 40MHz	826.038 mW (29.17dBm/10MHz)	816.582 mW (29.12dBm/10MHz)	797.995 mW (29.02dBm/10MHz)
Bandwidth	Max. EIRP Power (Full power)		
	QPSK	64QAM	256QAM
Channel Bandwidth 10MHz	788.860 mW (28.97dBm/Channel Bandwidth)	778.037 mW (28.91dBm/Channel Bandwidth)	763.836 mW (28.83dBm/Channel Bandwidth)
Channel Bandwidth 20MHz	1592.209 mW (32.02dBm/Channel Bandwidth)	1570.363 mW (31.96dBm/Channel Bandwidth)	1548.817 mW (31.90dBm/Channel Bandwidth)
Channel Bandwidth 40MHz	3341.950 mW (35.24dBm/Channel Bandwidth)	3221.069 mW (35.08dBm/Channel Bandwidth)	3176.874 mW (35.02dBm/Channel Bandwidth)

Mode A2

NR Band 48			
Bandwidth	Max. EIRP Power (Per 10M Power)		
	QPSK	64QAM	256QAM
Channel Bandwidth 10+20MHz	810.961 mW (29.09dBm/10MHz)	799.834 mW (29.03dBm/10MHz)	794.328 mW (29.00dBm/10MHz)
Channel Bandwidth 20+10MHz	796.159 mW (29.01dBm/10MHz)	785.236 mW (28.95dBm/10MHz)	772.681 mW (28.88dBm/10MHz)
Channel Bandwidth 20+20MHz	835.603 mW (29.22dBm/10MHz)	822.243 mW (29.15dBm/10MHz)	812.831 mW (29.10dBm/10MHz)
Bandwidth	Max. EIRP Power (Full power)		
	QPSK	64QAM	256QAM
Channel Bandwidth 10+20MHz	1156.112 mW (30.63dBm/Channel Bandwidth)	1145.513 mW (30.59dBm/Channel Bandwidth)	1137.627 mW (30.56dBm/Channel Bandwidth)
Channel Bandwidth 20+10MHz	1148.154 mW (30.60dBm/Channel Bandwidth)	1132.400 mW (30.54dBm/Channel Bandwidth)	1119.438 mW (30.49dBm/Channel Bandwidth)
Channel Bandwidth 20+20MHz	1506.607 mW (31.78dBm/Channel Bandwidth)	1489.361 mW (31.73dBm/Channel Bandwidth)	1468.926 mW (31.67dBm/Channel Bandwidth)

Mode A3

NR Band 48			
Bandwidth	Max. EIRP Power (Per 10M Power)		
	QPSK	64QAM	256QAM
Channel Bandwidth 10+20MHz	924.698 mW (29.66dBm/10MHz)	916.220 mW (29.62dBm/10MHz)	905.733 mW (29.57dBm/10MHz)
Channel Bandwidth 20+10MHz	879.023 mW (29.44dBm/10MHz)	866.962 mW (29.38dBm/10MHz)	857.038 mW (29.33dBm/10MHz)
Channel Bandwidth 20+20MHz	935.406 mW (29.71dBm/10MHz)	912.011 mW (29.60dBm/10MHz)	897.429 mW (29.53dBm/10MHz)
Bandwidth	Max. EIRP Power (Full power)		
	QPSK	64QAM	256QAM
Channel Bandwidth 10+20MHz	1253.141 mW (30.98dBm/Channel Bandwidth)	1241.652 mW (30.94dBm/Channel Bandwidth)	1227.439 mW (30.89dBm/Channel Bandwidth)
Channel Bandwidth 20+10MHz	1267.652 mW (31.03dBm/Channel Bandwidth)	1258.925 mW (31.00dBm/Channel Bandwidth)	1241.652 mW (30.94dBm/Channel Bandwidth)
Channel Bandwidth 20+20MHz	1588.547 mW (32.01dBm/Channel Bandwidth)	1584.893 mW (32.00dBm/Channel Bandwidth)	1566.751 mW (31.95dBm/Channel Bandwidth)

Mode B1

NR Band 48			
Bandwidth	Max. EIRP Power (Per 10M Power)		
	QPSK	64QAM	256QAM
Channel Bandwidth 10MHz	748.170 mW (28.74dBm/10MHz)	741.310 mW (28.70dBm/10MHz)	731.139 mW (28.64dBm/10MHz)
Channel Bandwidth 20MHz	860.994 mW (29.35dBm/10MHz)	851.138 mW (29.30dBm/10MHz)	839.460 mW (29.24dBm/10MHz)
Channel Bandwidth 40MHz	897.429 mW (29.53dBm/10MHz)	885.116 mW (29.47dBm/10MHz)	872.971 mW (29.41dBm/10MHz)
Bandwidth	Max. EIRP Power (Full power)		
	QPSK	64QAM	256QAM
Channel Bandwidth 10MHz	748.170 mW (28.74dBm/Channel Bandwidth)	741.310 mW (28.70dBm/Channel Bandwidth)	731.139 mW (28.64dBm/Channel Bandwidth)
Channel Bandwidth 20MHz	1548.817 mW (31.90dBm/Channel Bandwidth)	1531.087 mW (31.85dBm/Channel Bandwidth)	1506.607 mW (31.78dBm/Channel Bandwidth)
Channel Bandwidth 40MHz	3341.950 mW (35.24dBm/Channel Bandwidth)	3303.695 mW (35.19dBm/Channel Bandwidth)	3265.878 mW (35.14dBm/Channel Bandwidth)

Mode B2

NR Band 48			
Bandwidth	Max. EIRP Power (Per 10M Power)		
	QPSK	64QAM	256QAM
Channel Bandwidth 10+20MHz	870.964 mW (29.40dBm/10MHz)	860.994 mW (29.35dBm/10MHz)	851.138 mW (29.30dBm/10MHz)
Channel Bandwidth 20+10MHz	845.279 mW (29.27dBm/10MHz)	833.681 mW (29.21dBm/10MHz)	822.243 mW (29.15dBm/10MHz)
Channel Bandwidth 20+20MHz	853.100 mW (29.31dBm/10MHz)	845.279 mW (29.27dBm/10MHz)	835.603 mW (29.22dBm/10MHz)
Bandwidth	Max. EIRP Power (Full power)		
	QPSK	64QAM	256QAM
Channel Bandwidth 10+20MHz	1256.030 mW (30.99dBm/Channel Bandwidth)	1241.652 mW (30.94dBm/Channel Bandwidth)	1227.439 mW (30.89dBm/Channel Bandwidth)
Channel Bandwidth 20+10MHz	1221.800 mW (30.87dBm/Channel Bandwidth)	1207.814 mW (30.82dBm/Channel Bandwidth)	1193.988 mW (30.77dBm/Channel Bandwidth)
Channel Bandwidth 20+20MHz	1555.966 mW (31.92dBm/Channel Bandwidth)	1538.155 mW (31.87dBm/Channel Bandwidth)	1520.548 mW (31.82dBm/Channel Bandwidth)

Mode B3

NR Band 48			
Bandwidth	Max. EIRP Power (Per 10M Power)		
	QPSK	64QAM	256QAM
Channel Bandwidth 10+20MHz	783.430 mW (28.94dBm/10MHz)	774.462 mW (28.89dBm/10MHz)	765.597 mW (28.84dBm/10MHz)
Channel Bandwidth 20+10MHz	847.227 mW (29.28dBm/10MHz)	837.529 mW (29.23dBm/10MHz)	827.942 mW (29.18dBm/10MHz)
Channel Bandwidth 20+20MHz	860.994 mW (29.35dBm/10MHz)	845.279 mW (29.27dBm/10MHz)	835.603 mW (29.22dBm/10MHz)
Bandwidth	Max. EIRP Power (Full power)		
	QPSK	64QAM	256QAM
Channel Bandwidth 10+20MHz	1169.499 mW (30.68dBm/Channel Bandwidth)	1153.453 mW (30.62dBm/Channel Bandwidth)	1137.627 mW (30.56dBm/Channel Bandwidth)
Channel Bandwidth 20+10MHz	1276.439 mW (31.06dBm/Channel Bandwidth)	1261.828 mW (31.01dBm/Channel Bandwidth)	1247.384 mW (30.96dBm/Channel Bandwidth)
Channel Bandwidth 20+20MHz	1584.893 mW (32.00dBm/Channel Bandwidth)	1559.553 mW (31.93dBm/Channel Bandwidth)	1545.254 mW (31.89dBm/Channel Bandwidth)

Mode C1

NR Band 48			
Bandwidth	Max. EIRP Power (Per 10M Power)		
	QPSK	64QAM	256QAM
Channel Bandwidth 10MHz	746.449 mW (28.73dBm/10MHz)	739.605 mW (28.69dBm/10MHz)	734.514 mW (28.66dBm/10MHz)
Channel Bandwidth 20MHz	831.764 mW (29.20dBm/10MHz)	820.352 mW (29.14dBm/10MHz)	812.831 mW (29.10dBm/10MHz)
Channel Bandwidth 40MHz	826.038 mW (29.17dBm/10MHz)	818.465 mW (29.13dBm/10MHz)	812.831 mW (29.10dBm/10MHz)
Bandwidth	Max. EIRP Power (Full power)		
	QPSK	64QAM	256QAM
Channel Bandwidth 10MHz	746.449 mW (28.73dBm/Channel Bandwidth)	739.605 mW (28.69dBm/Channel Bandwidth)	734.514 mW (28.66dBm/Channel Bandwidth)
Channel Bandwidth 20MHz	1499.685 mW (31.76dBm/Channel Bandwidth)	1482.518 mW (31.71dBm/Channel Bandwidth)	1468.926 mW (31.67dBm/Channel Bandwidth)
Channel Bandwidth 40MHz	3076.097 mW (34.88dBm/Channel Bandwidth)	3026.913 mW (34.81dBm/Channel Bandwidth)	2992.265 mW (34.76dBm/Channel Bandwidth)

Mode C2

NR Band 48			
Bandwidth	Max. EIRP Power (Per 10M Power)		
	QPSK	64QAM	256QAM
Channel Bandwidth 10+20MHz	781.628 mW (28.93dBm/10MHz)	774.462 mW (28.89dBm/10MHz)	763.836 mW (28.83dBm/10MHz)
Channel Bandwidth 20+10MHz	792.501 mW (28.99dBm/10MHz)	783.430 mW (28.94dBm/10MHz)	776.247 mW (28.90dBm/10MHz)
Channel Bandwidth 20+20MHz	885.116 mW (29.47dBm/10MHz)	872.971 mW (29.41dBm/10MHz)	860.994 mW (29.35dBm/10MHz)
Bandwidth	Max. EIRP Power (Full power)		
	QPSK	64QAM	256QAM
Channel Bandwidth 10+20MHz	1132.400 mW (30.54dBm/Channel Bandwidth)	1119.438 mW (30.49dBm/Channel Bandwidth)	1106.624 mW (30.44dBm/Channel Bandwidth)
Channel Bandwidth 20+10MHz	1142.878 mW (30.58dBm/Channel Bandwidth)	1127.197 mW (30.52dBm/Channel Bandwidth)	1111.732 mW (30.46dBm/Channel Bandwidth)
Channel Bandwidth 20+20MHz	1581.248 mW (31.99dBm/Channel Bandwidth)	1559.553 mW (31.93dBm/Channel Bandwidth)	1548.817 mW (31.90dBm/Channel Bandwidth)

Mode C3

NR Band 48			
Bandwidth	Max. EIRP Power (Per 10M Power)		
	QPSK	64QAM	256QAM
Channel Bandwidth 10+20MHz	810.961 mW (29.09dBm/10MHz)	803.526 mW (29.05dBm/10MHz)	794.328 mW (29.00dBm/10MHz)
Channel Bandwidth 20+10MHz	831.764 mW (29.20dBm/10MHz)	824.138 mW (29.16dBm/10MHz)	816.582 mW (29.12dBm/10MHz)
Channel Bandwidth 20+20MHz	877.001 mW (29.43dBm/10MHz)	874.984 mW (29.42dBm/10MHz)	866.962 mW (29.38dBm/10MHz)
Bandwidth	Max. EIRP Power (Full power)		
	QPSK	64QAM	256QAM
Channel Bandwidth 10+20MHz	1216.186 mW (30.85dBm/Channel Bandwidth)	1202.264 mW (30.80dBm/Channel Bandwidth)	1188.502 mW (30.75dBm/Channel Bandwidth)
Channel Bandwidth 20+10MHz	1213.389 mW (30.84dBm/Channel Bandwidth)	1196.741 mW (30.78dBm/Channel Bandwidth)	1177.606 mW (30.71dBm/Channel Bandwidth)
Channel Bandwidth 20+20MHz	1595.879 mW (32.03dBm/Channel Bandwidth)	1566.751 mW (31.95dBm/Channel Bandwidth)	1538.155 mW (31.87dBm/Channel Bandwidth)

Mode D1

NR Band 48			
Bandwidth	Max. EIRP Power (Per 10M Power)		
	QPSK	64QAM	256QAM
Channel Bandwidth 10MHz	717.794 mW (28.56dBm/10MHz)	707.946 mW (28.50dBm/10MHz)	699.842 mW (28.45dBm/10MHz)
Channel Bandwidth 20MHz	922.571 mW (29.65dBm/10MHz)	899.498 mW (29.54dBm/10MHz)	889.201 mW (29.49dBm/10MHz)
Channel Bandwidth 40MHz	851.138 mW (29.30dBm/10MHz)	847.227 mW (29.28dBm/10MHz)	837.529 mW (29.23dBm/10MHz)
Bandwidth	Max. EIRP Power (Full power)		
	QPSK	64QAM	256QAM
Channel Bandwidth 10MHz	717.794 mW (28.56dBm/Channel Bandwidth)	707.946 mW (28.50dBm/Channel Bandwidth)	699.842 mW (28.45dBm/Channel Bandwidth)
Channel Bandwidth 20MHz	1636.817 mW (32.14dBm/Channel Bandwidth)	1621.810 mW (32.10dBm/Channel Bandwidth)	1599.558 mW (32.04dBm/Channel Bandwidth)
Channel Bandwidth 40MHz	3104.560 mW (34.92dBm/Channel Bandwidth)	3076.097 mW (34.88dBm/Channel Bandwidth)	3047.895 mW (34.84dBm/Channel Bandwidth)

Mode D2

NR Band 48			
Bandwidth	Max. EIRP Power (Per 10M Power)		
	QPSK	64QAM	256QAM
Channel Bandwidth 10+20MHz	792.501 mW (28.99dBm/10MHz)	785.236 mW (28.95dBm/10MHz)	779.830 mW (28.92dBm/10MHz)
Channel Bandwidth 20+10MHz	785.236 mW (28.95dBm/10MHz)	778.037 mW (28.91dBm/10MHz)	770.903 mW (28.87dBm/10MHz)
Channel Bandwidth 20+20MHz	845.279 mW (29.27dBm/10MHz)	837.529 mW (29.23dBm/10MHz)	827.942 mW (29.18dBm/10MHz)
Bandwidth	Max. EIRP Power (Full power)		
	QPSK	64QAM	256QAM
Channel Bandwidth 10+20MHz	1148.154 mW (30.60dBm/Channel Bandwidth)	1135.011 mW (30.55dBm/Channel Bandwidth)	1124.605 mW (30.51dBm/Channel Bandwidth)
Channel Bandwidth 20+10MHz	1132.400 mW (30.54dBm/Channel Bandwidth)	1119.438 mW (30.49dBm/Channel Bandwidth)	1109.175 mW (30.45dBm/Channel Bandwidth)
Channel Bandwidth 20+20MHz	1538.155 mW (31.87dBm/Channel Bandwidth)	1524.053 mW (31.83dBm/Channel Bandwidth)	1510.080 mW (31.79dBm/Channel Bandwidth)

Mode D3

NR Band 48			
Bandwidth	Max. EIRP Power (Per 10M Power)		
	QPSK	64QAM	256QAM
Channel Bandwidth 10+20MHz	801.678 mW (29.04dBm/10MHz)	794.328 mW (29.00dBm/10MHz)	788.860 mW (28.97dBm/10MHz)
Channel Bandwidth 20+10MHz	756.833 mW (28.79dBm/10MHz)	744.732 mW (28.72dBm/10MHz)	734.514 mW (28.66dBm/10MHz)
Channel Bandwidth 20+20MHz	893.305 mW (29.51dBm/10MHz)	885.116 mW (29.47dBm/10MHz)	874.984 mW (29.42dBm/10MHz)
Bandwidth	Max. EIRP Power (Full power)		
	QPSK	64QAM	256QAM
Channel Bandwidth 10+20MHz	1114.295 mW (30.47dBm/Channel Bandwidth)	1096.478 mW (30.40dBm/Channel Bandwidth)	1083.927 mW (30.35dBm/Channel Bandwidth)
Channel Bandwidth 20+10MHz	1122.018 mW (30.50dBm/Channel Bandwidth)	1111.732 mW (30.46dBm/Channel Bandwidth)	1099.006 mW (30.41dBm/Channel Bandwidth)
Channel Bandwidth 20+20MHz	1606.941 mW (32.06dBm/Channel Bandwidth)	1584.893 mW (32.00dBm/Channel Bandwidth)	1566.751 mW (31.95dBm/Channel Bandwidth)

Mode A1 / B1 / C1 / D1

NR Band 48			
Bandwidth	Emission Designator		
	QPSK	64QAM	256QAM
Channel Bandwidth 10MHz	8M61G7D	8M61D7W	8M61D7W
Channel Bandwidth 20MHz	18M3G7D	18M3D7W	18M3D7W
Channel Bandwidth 40MHz	37M9G7D	37M9D7W	37M9D7W

Mode A2 / B2 / C2 / D2

NR Band 48			
Bandwidth	Emission Designator		
	QPSK	64QAM	256QAM
Channel Bandwidth 10MHz+20MHz	28M4G7D	28M4D7W	28M4D7W
Channel Bandwidth 20MHz+10MHz	28M4G7D	28M4D7W	28M4D7W
Channel Bandwidth 20MHz+20MHz	38M2G7D	38M2D7W	38M2D7W

Mode A3 / B3 / C3 / D3

Bandwidth	Emission Designator		
	QPSK	64QAM	256QAM
Channel Bandwidth 10MHz+20MHz	26M9G7D	26M9D7W	26M9D7W
Channel Bandwidth 20MHz+10MHz	27M0G7D	26M9D7W	26M9D7W
Channel Bandwidth 20MHz+20MHz	36M6G7D	36M6D7W	36M6D7W

3.2 Test Mode Applicability and Tested Channel Detail

Test results are presented in the report as below.

Test Mode	Test Condition		
A1	EUT with internal antenna	1CC mode	
A2		2CC mode_Contiguous	
A3		2CC mode_Non-Contiguous	
B1	EUT with External antenna (CMAX-OMF7-43-UWI53)	1CC mode	
B2		2CC mode_Contiguous	
B3		2CC mode_Non-Contiguous	
C1	EUT with External antenna (CMAX-OMF9-43-UWI53)	1CC mode	
C2		2CC mode_Contiguous	
C3		2CC mode_Non-Contiguous	
D1	EUT with External antenna (CMAX-DMF4-43-WI53)	1CC mode	
D2		2CC mode_Contiguous	
D3		2CC mode_Non-Contiguous	
E1	EUT with internal antenna	1CC mode	Power from adapter
E2			Power from PoE
E3		2CC mode	Power from adapter_Non-Contiguous
E4			Power from PoE_Non-Contiguous
F1	EUT with 50 ohm terminator	1CC mode	Power from adapter
F2			Power from PoE
F3		2CC mode	Power from adapter_Non-Contiguous
F4			Power from PoE_Non-Contiguous

Pre-Scan:	- For Unwanted Emission (below 1GHz) items: Adapter/PoE. Pre-scan these modes and find the worst case as a representative test condition. - EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition. - This device was tested under all bandwidths and modulations. The worst case was found in QPSK modulation. Therefore, only EIRP, modulation characteristics, occupied bandwidth and peak to average ratio items had been tested under QPSK, 64QAM and 256QAM mode, the other items were performed under QPSK mode only. - For Frequency Stability, Occupied Bandwidth, Peak-to-Average Ratio, Conducted Emission, and Radiated Spurious Emissions, choose the maximum conducted output power worst case for final testing.
Worst Case:	- AC Adapter - X-axis/ Y-axis/ Z-axis Worst Condition: Z-axis

Following channel(s) was (were) selected for the final test as listed below:

Mode A1

Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation
Maximum Output Power	637000 to 646332	637000 (3555.00MHz), 641666 (3624.99MHz), 646332 (3694.98MHz)	10MHz	QPSK / 64QAM / 256QAM
	637334 to 646000	637334 (3560.01MHz), 641666 (3624.99MHz), 646000 (3690.00MHz)	20MHz	QPSK / 64QAM / 256QAM
	638000 to 645332	638000 (3570.00MHz), 641666 (3624.99MHz), 645332 (3679.98MHz)	40MHz	QPSK / 64QAM / 256QAM
Maximum Power Spectral Density	637000 to 646332	637000 (3555.00MHz), 641666 (3624.99MHz), 646332 (3694.98MHz)	10MHz	QPSK
	637334 to 646000	637334 (3560.01MHz), 641666 (3624.99MHz), 646000 (3690.00MHz)	20MHz	QPSK
	638000 to 645332	638000 (3570.00MHz), 641666 (3624.99MHz), 645332 (3679.98MHz)	40MHz	QPSK
Modulation Characteristics	638000 to 645332	641666 (3624.99MHz)	40MHz	QPSK / 64QAM / 256QAM
Frequency Stability	637000 to 646332	637000 (3555.00MHz), 646332 (3694.98MHz)	10MHz	QPSK
	637334 to 646000	637334 (3560.01MHz), 646000 (3690.00MHz)	20MHz	QPSK
	638000 to 645332	638000 (3570.00MHz), 645332 (3679.98MHz)	40MHz	QPSK
Occupied Bandwidth	637000 to 646332	637000 (3555.00MHz), 641666 (3624.99MHz), 646332 (3694.98MHz)	10MHz	QPSK / 64QAM / 256QAM
	637334 to 646000	637334 (3560.01MHz), 641666 (3624.99MHz), 646000 (3690.00MHz)	20MHz	QPSK / 64QAM / 256QAM
	638000 to 645332	638000 (3570.00MHz), 641666 (3624.99MHz), 645332 (3679.98MHz)	40MHz	QPSK / 64QAM / 256QAM

Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation
Peak to Average Ratio	637000 to 646332	637000 (3555.00MHz), 641666 (3624.99MHz), 646332 (3694.98MHz)	10MHz	QPSK / 64QAM / 256QAM
	637334 to 646000	637334 (3560.01MHz), 641666 (3624.99MHz), 646000 (3690.00MHz)	20MHz	QPSK / 64QAM / 256QAM
	638000 to 645332	638000 (3570.00MHz), 641666 (3624.99MHz), 645332 (3679.98MHz)	40MHz	QPSK / 64QAM / 256QAM
Conducted Emission	637000 to 646332	637000 (3555.00MHz), 641666 (3624.99MHz), 646332 (3694.98MHz)	10MHz	QPSK
	637334 to 646000	637334 (3560.01MHz), 641666 (3624.99MHz), 646000 (3690.00MHz)	20MHz	QPSK
	638000 to 645332	638000 (3570.00MHz), 641666 (3624.99MHz), 645332 (3679.98MHz)	40MHz	QPSK

Mode A2

Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation
Maximum Output Power	637000 to 646000	637000 (3555.00MHz) + 638000 (3570.00MHz), 645000 (3675.00MHz) + 646000 (3690.00MHz)	10MHz+20MHz	QPSK / 64QAM / 256QAM
	637334 to 642168	637334 (3560.01MHz) + 638334 (3575.01MHz), 645332 (3679.98MHz) + 646332 (3694.98MHz)	20MHz+10MHz	QPSK / 64QAM / 256QAM
	637334 to 642502	637334 (3560.01MHz) + 638668 (3580.02MHz), 644668 (3670.02MHz) + 646000 (3690.00MHz)	20MHz+20MHz	QPSK / 64QAM / 256QAM
Maximum Power Spectral Density	637000 to 646000	637000 (3555.00MHz) + 638000 (3570.00MHz), 645000 (3675.00MHz) + 646000 (3690.00MHz)	10MHz+20MHz	QPSK
	637334 to 642168	637334 (3560.01MHz) + 638334 (3575.01MHz), 645332 (3679.98MHz) + 646332 (3694.98MHz)	20MHz+10MHz	QPSK
	637334 to 642502	637334 (3560.01MHz) + 638668 (3580.02MHz), 644668 (3670.02MHz) + 646000 (3690.00MHz)	20MHz+20MHz	QPSK
Frequency Stability	637000 to 646000	637000 (3555.00MHz) + 638000 (3570.00MHz), 645000 (3675.00MHz) + 646000 (3690.00MHz)	10MHz+20MHz	QPSK
	637334 to 642168	637334 (3560.01MHz) + 638334 (3575.01MHz), 645332 (3679.98MHz) + 646332 (3694.98MHz)	20MHz+10MHz	QPSK
	637334 to 642502	637334 (3560.01MHz) + 638668 (3580.02MHz), 644668 (3670.02MHz) + 646000 (3690.00MHz)	20MHz+20MHz	QPSK

Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation
Occupied Bandwidth	637000 to 642502	637000 (3555.00MHz) + 638000 (3570.00MHz), 645000 (3675.00MHz) + 646000 (3690.00MHz)	10MHz+20MHz	QPSK / 64QAM / 256QAM
	637334 to 642168	637334 (3560.01MHz) + 638334 (3575.01MHz), 645332 (3679.98MHz) + 646332 (3694.98MHz)	20MHz+10MHz	QPSK / 64QAM / 256QAM
	637334 to 642502	637334 (3560.01MHz) + 638668 (3580.02MHz), 644668 (3670.02MHz) + 646000 (3690.00MHz)	20MHz+20MHz	QPSK / 64QAM / 256QAM
Peak to Average Ratio	637000 to 642502	637000 (3555.00MHz) + 638000 (3570.00MHz), 645000 (3675.00MHz) + 646000 (3690.00MHz)	10MHz+20MHz	QPSK / 64QAM / 256QAM
	637334 to 642168	637334 (3560.01MHz) + 638334 (3575.01MHz), 645332 (3679.98MHz) + 646332 (3694.98MHz)	20MHz+10MHz	QPSK / 64QAM / 256QAM
	637334 to 642502	637334 (3560.01MHz) + 638668 (3580.02MHz), 644668 (3670.02MHz) + 646000 (3690.00MHz)	20MHz+20MHz	QPSK / 64QAM / 256QAM
Conducted Emission	637000 to 642502	637000 (3555.00MHz) + 638000 (3570.00MHz), 645000 (3675.00MHz) + 646000 (3690.00MHz)	10MHz+20MHz	QPSK
	637334 to 642168	637334 (3560.01MHz) + 638334 (3575.01MHz), 645332 (3679.98MHz) + 646332 (3694.98MHz)	20MHz+10MHz	QPSK
	637334 to 642502	637334 (3560.01MHz) + 638668 (3580.02MHz), 644668 (3670.02MHz) + 646000 (3690.00MHz)	20MHz+20MHz	QPSK

Mode A3

Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation
Maximum Output Power	637000 to 642502	637000 (3555.00MHz) + 646000 (3690.00MHz), 639668 (3595.02MHz) + 644000 (3660.00MHz), 641168 (3617.52MHz) + 642502 (3637.53MHz)	10MHz+20MHz	QPSK / 64QAM / 256QAM
	637334 to 642168	637334 (3560.01MHz) + 646332 (3694.98MHz), 639334 (3590.01MHz) + 643668 (3655.02MHz), 640834 (3612.51MHz) + 642168 (3632.52MHz)	20MHz+10MHz	QPSK / 64QAM / 256QAM
	637334 to 642502	637334 (3560.01MHz) + 646000 (3690.00MHz), 639668 (3595.02MHz) + 643668 (3655.02MHz), 640834 (3612.51MHz) + 642502 (3637.53MHz)	20MHz+20MHz	QPSK / 64QAM / 256QAM
Maximum Power Spectral Density	637000 to 642502	637000 (3555.00MHz) + 646000 (3690.00MHz), 639668 (3595.02MHz) + 644000 (3660.00MHz), 641168 (3617.52MHz) + 642502 (3637.53MHz)	10MHz+20MHz	QPSK
	637334 to 642168	637334 (3560.01MHz) + 646332 (3694.98MHz), 639334 (3590.01MHz) + 643668 (3655.02MHz), 640834 (3612.51MHz) + 642168 (3632.52MHz)	20MHz+10MHz	QPSK
	637334 to 642502	637334 (3560.01MHz) + 646000 (3690.00MHz), 639668 (3595.02MHz) + 643668 (3655.02MHz), 640834 (3612.51MHz) + 642502 (3637.53MHz)	20MHz+20MHz	QPSK
Frequency Stability	637000 to 642502	637000 (3555.00MHz) + 646000 (3690.00MHz), 639668 (3595.02MHz) + 644000 (3660.00MHz), 641168 (3617.52MHz) + 642502 (3637.53MHz)	10MHz+20MHz	QPSK
	637334 to 642168	637334 (3560.01MHz) + 646332 (3694.98MHz), 639334 (3590.01MHz) + 643668 (3655.02MHz), 640834 (3612.51MHz) + 642168 (3632.52MHz)	20MHz+10MHz	QPSK
	637334 to 642502	637334 (3560.01MHz) + 646000 (3690.00MHz), 639668 (3595.02MHz) + 643668 (3655.02MHz), 640834 (3612.51MHz) + 642502 (3637.53MHz)	20MHz+20MHz	QPSK

Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation
Occupied Bandwidth	637000 to 642502	637000 (3555.00MHz) + 646000 (3690.00MHz), 639668 (3595.02MHz) + 644000 (3660.00MHz), 641168 (3617.52MHz) + 642502 (3637.53MHz)	10MHz+20MHz	QPSK / 64QAM / 256QAM
	637334 to 642168	637334 (3560.01MHz) + 646332 (3694.98MHz), 639334 (3590.01MHz) + 643668 (3655.02MHz), 640834 (3612.51MHz) + 642168 (3632.52MHz)	20MHz+10MHz	QPSK / 64QAM / 256QAM
	637334 to 642502	637334 (3560.01MHz) + 646000 (3690.00MHz), 639668 (3595.02MHz) + 643668 (3655.02MHz), 640834 (3612.51MHz) + 642502 (3637.53MHz)	20MHz+20MHz	QPSK / 64QAM / 256QAM
Peak to Average Ratio	637000 to 642502	637000 (3555.00MHz) + 646000 (3690.00MHz), 639668 (3595.02MHz) + 644000 (3660.00MHz), 641168 (3617.52MHz) + 642502 (3637.53MHz)	10MHz+20MHz	QPSK / 64QAM / 256QAM
	637334 to 642168	637334 (3560.01MHz) + 646332 (3694.98MHz), 639334 (3590.01MHz) + 643668 (3655.02MHz), 640834 (3612.51MHz) + 642168 (3632.52MHz)	20MHz+10MHz	QPSK / 64QAM / 256QAM
	637334 to 642502	637334 (3560.01MHz) + 646000 (3690.00MHz), 639668 (3595.02MHz) + 643668 (3655.02MHz), 640834 (3612.51MHz) + 642502 (3637.53MHz)	20MHz+20MHz	QPSK / 64QAM / 256QAM
Conducted Emission	637000 to 642502	637000 (3555.00MHz) + 646000 (3690.00MHz), 639668 (3595.02MHz) + 644000 (3660.00MHz), 641168 (3617.52MHz) + 642502 (3637.53MHz)	10MHz+20MHz	QPSK
	637334 to 642168	637334 (3560.01MHz) + 646332 (3694.98MHz), 639334 (3590.01MHz) + 643668 (3655.02MHz), 640834 (3612.51MHz) + 642168 (3632.52MHz)	20MHz+10MHz	QPSK
	637334 to 642502	637334 (3560.01MHz) + 646000 (3690.00MHz), 639668 (3595.02MHz) + 643668 (3655.02MHz), 640834 (3612.51MHz) + 642502 (3637.53MHz)	20MHz+20MHz	QPSK

Mode B1, C1, D1

Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation
Maximum Output Power	637000 to 646332	637000 (3555.00MHz), 641666 (3624.99MHz), 646332 (3694.98MHz)	10MHz	QPSK / 64QAM / 256QAM
	637334 to 646000	637334 (3560.01MHz), 641666 (3624.99MHz), 646000 (3690.00MHz)	20MHz	QPSK / 64QAM / 256QAM
	638000 to 645332	638000 (3570.00MHz), 641666 (3624.99MHz), 645332 (3679.98MHz)	40MHz	QPSK / 64QAM / 256QAM
Maximum Power Spectral Density	637000 to 646332	637000 (3555.00MHz), 641666 (3624.99MHz), 646332 (3694.98MHz)	10MHz	QPSK
	637334 to 646000	637334 (3560.01MHz), 641666 (3624.99MHz), 646000 (3690.00MHz)	20MHz	QPSK
	638000 to 645332	638000 (3570.00MHz), 641666 (3624.99MHz), 645332 (3679.98MHz)	40MHz	QPSK

Mode B2, C2, D2

Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation
Maximum Output Power	637000 to 646000	637000 (3555.00MHz) + 638000 (3570.00MHz), 645000 (3675.00MHz) + 646000 (3690.00MHz)	10MHz+20MHz	QPSK / 64QAM / 256QAM
	637334 to 642168	637334 (3560.01MHz) + 638334 (3575.01MHz), 645332 (3679.98MHz) + 646332 (3694.98MHz)	20MHz+10MHz	QPSK / 64QAM / 256QAM
	637334 to 642502	637334 (3560.01MHz) + 638668 (3580.02MHz), 644668 (3670.02MHz) + 646000 (3690.00MHz)	20MHz+20MHz	QPSK / 64QAM / 256QAM
Maximum Power Spectral Density	637000 to 646000	637000 (3555.00MHz) + 638000 (3570.00MHz), 645000 (3675.00MHz) + 646000 (3690.00MHz)	10MHz+20MHz	QPSK
	637334 to 642168	637334 (3560.01MHz) + 638334 (3575.01MHz), 645332 (3679.98MHz) + 646332 (3694.98MHz)	20MHz+10MHz	QPSK
	637334 to 642502	637334 (3560.01MHz) + 638668 (3580.02MHz), 644668 (3670.02MHz) + 646000 (3690.00MHz)	20MHz+20MHz	QPSK

Mode B3, C3, D3

Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation
Maximum Output Power	637000 to 642502	637000 (3555.00MHz) + 646000 (3690.00MHz), 639668 (3595.02MHz) + 644000 (3660.00MHz), 641168 (3617.52MHz) + 642502 (3637.53MHz)	10MHz+20MHz	QPSK / 64QAM / 256QAM
	637334 to 642168	637334 (3560.01MHz) + 646332 (3694.98MHz), 639334 (3590.01MHz) + 643668 (3655.02MHz), 640834 (3612.51MHz) + 642168 (3632.52MHz)	20MHz+10MHz	QPSK / 64QAM / 256QAM
	637334 to 642502	637334 (3560.01MHz) + 646000 (3690.00MHz), 639668 (3595.02MHz) + 643668 (3655.02MHz), 640834 (3612.51MHz) + 642502 (3637.53MHz)	20MHz+20MHz	QPSK / 64QAM / 256QAM
Maximum Power Spectral Density	637000 to 642502	637000 (3555.00MHz) + 646000 (3690.00MHz), 639668 (3595.02MHz) + 644000 (3660.00MHz), 641168 (3617.52MHz) + 642502 (3637.53MHz)	10MHz+20MHz	QPSK
	637334 to 642168	637334 (3560.01MHz) + 646332 (3694.98MHz), 639334 (3590.01MHz) + 643668 (3655.02MHz), 640834 (3612.51MHz) + 642168 (3632.52MHz)	20MHz+10MHz	QPSK
	637334 to 642502	637334 (3560.01MHz) + 646000 (3690.00MHz), 639668 (3595.02MHz) + 643668 (3655.02MHz), 640834 (3612.51MHz) + 642502 (3637.53MHz)	20MHz+20MHz	QPSK

Mode E1, F1

Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation
Radiated Emission Below 1GHz	638000 to 645332	638000 (3570.00MHz)	40MHz	QPSK
Radiated Emission Above 1GHz	637000 to 646332	637000 (3555.00MHz), 641666 (3624.99MHz), 646332 (3694.98MHz)	10MHz	QPSK
	637334 to 646000	637334 (3560.01MHz), 641666 (3624.99MHz), 646000 (3690.00MHz)	20MHz	QPSK
	638000 to 645332	638000 (3570.00MHz), 641666 (3624.99MHz), 645332 (3679.98MHz)	40MHz	QPSK

Mode E2, F2

Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation
Radiated Emission Below 1GHz	638000 to 645332	638000 (3570.00MHz)	40MHz	QPSK

Mode E3, F3

Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation
Radiated Emission Below 1GHz	637334 to 642168	639334 (3590.01MHz) + 643668 (3655.02MHz)	20MHz+10MHz	QPSK
Radiated Emission Above 1GHz	637000 to 642502	637000 (3555.00MHz) + 646000 (3690.00MHz), 639668 (3595.02MHz) + 644000 (3660.00MHz), 641168 (3617.52MHz) + 642502 (3637.53MHz)	10MHz+20MHz	QPSK
	637334 to 642168	637334 (3560.01MHz) + 646332 (3694.98MHz), 639334 (3590.01MHz) + 643668 (3655.02MHz), 640834 (3612.51MHz) + 642168 (3632.52MHz)	20MHz+10MHz	QPSK
	637334 to 642502	637334 (3560.01MHz) + 646000 (3690.00MHz), 639668 (3595.02MHz) + 643668 (3655.02MHz), 640834 (3612.51MHz) + 642502 (3637.53MHz)	20MHz+20MHz	QPSK

Mode E4, F4

Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation
Radiated Emission Below 1GHz	637334 to 642168	639334 (3590.01MHz) + 643668 (3655.02MHz)	20MHz+10MHz	QPSK

3.3 Description of Support Units

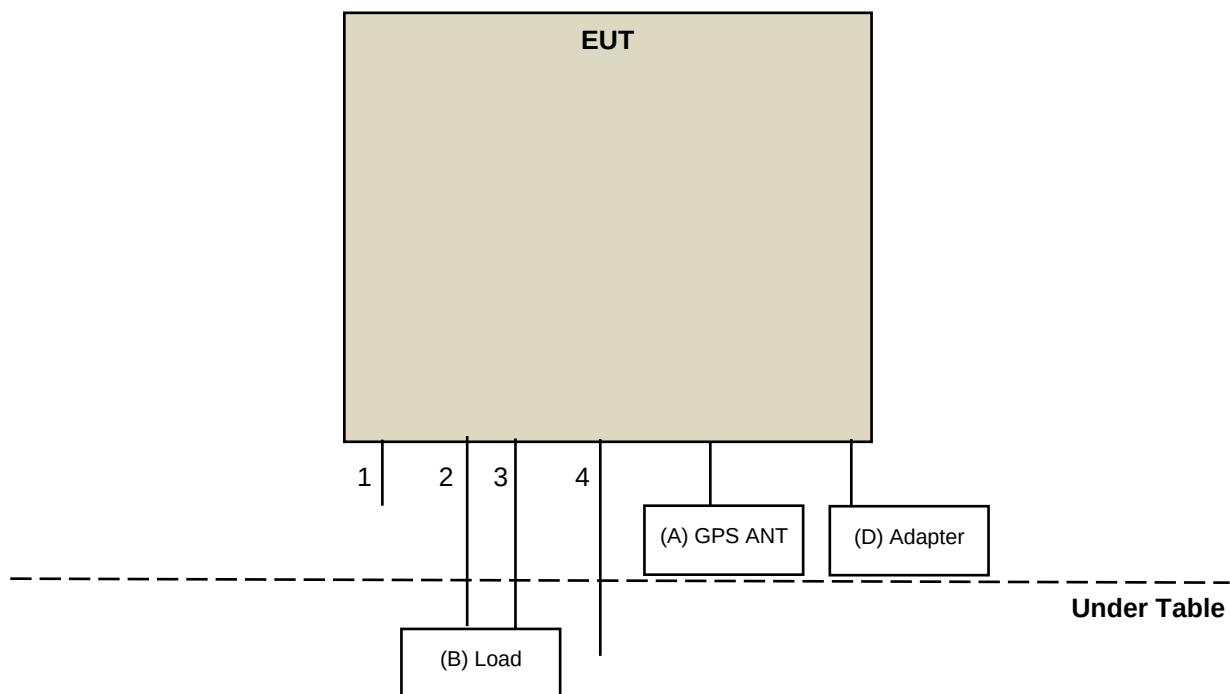
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	GPS ANT	N/A	N/A	N/A	N/A	Supplied by applicant
B	Load	BV	LP-04	N/A	N/A	Provided by Lab
C	Notebook	Lenovo	TP00133C	N/A	N/A	Supplied by applicant
D	Adapter	Mass Power Electronics Inc.	NBS100A120600M2	N/A	N/A	Supplied by applicant
E	POE	Delta	ADH-90AR N	N/A	N/A	Supplied by applicant
F	50Ω Terminal*4	N/A	N/A	N/A	N/A	Provided by Lab

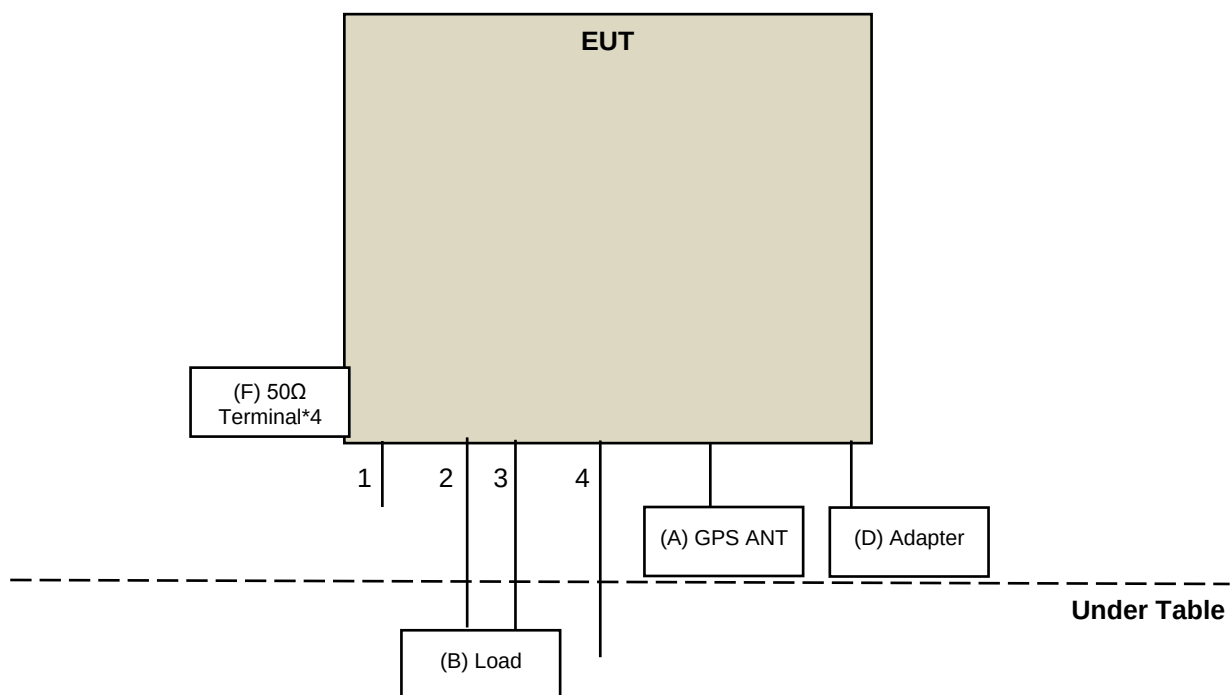
ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	Console Cable	1	0.25	N	0	Supplied by applicant
2	RJ-45 Cable	1	1.5	N	0	Provided by Lab
3	RJ-45 Cable	1	1.5	N	0	Provided by Lab
4	Fiber Optical Cable	1	3	N	0	Provided by Lab
5	RJ-45 Cable	1	10	N	0	Provided by Lab

3.3.1 Configuration of System under Test

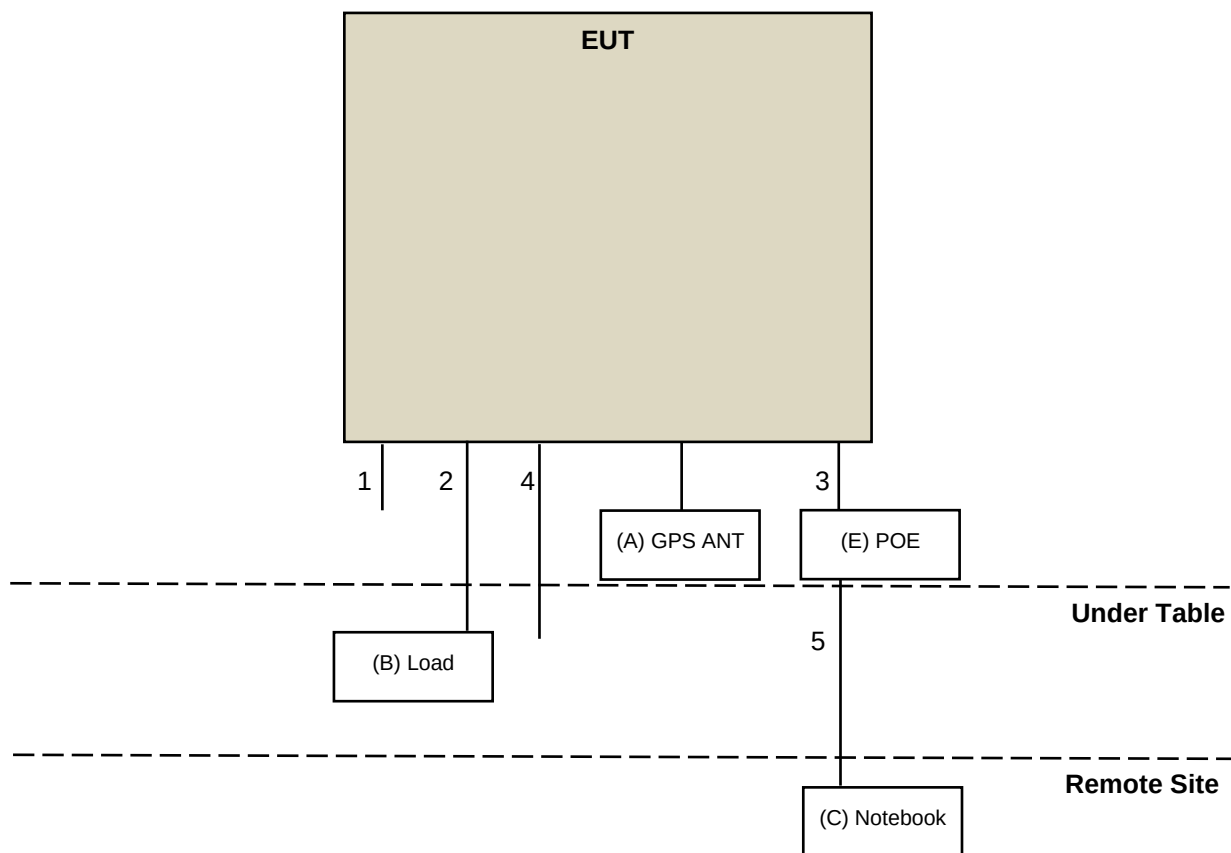
Mode E1, E3



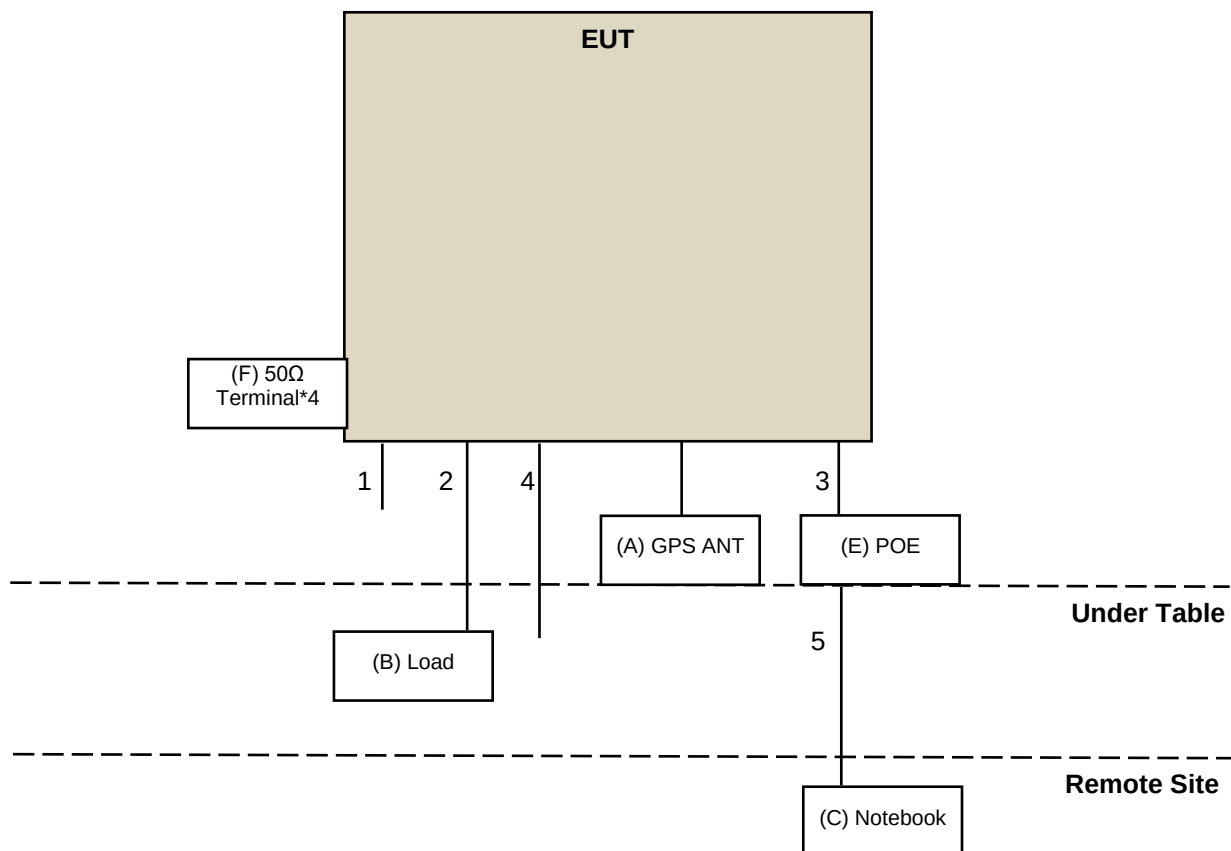
Mode F1, F3



Mode E2, E4



Mode F2, F4



3.4 General Description of Applied Standards and References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standard:

FCC 47 CFR Part 2

FCC 47 CFR Part 96

ANSI/TIA/EIA-603-E-2016

All test items have been performed and recorded as per the above standards.

References Test Guidance:

KDB 971168 D01 Power Meas License Digital Systems v03r01

KDB 940660 D01 Part 96 CBRS Eqpt v03

All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

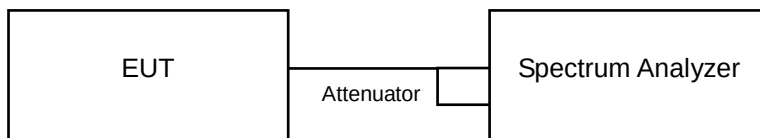
4.1 Maximum Output Power Measurement

4.1.1 Limits of Maximum Output Power Measurement

Device		Maximum EIRP (dBm/10 MHz)
☐	End User Device	23
☒	Category A CBSD	30
☐	Category B CBSD	47

4.1.2 Test Setup

Conducted Power Measurement:



4.1.3 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2024/05/29	2025/05/28
			2025/5/23	2026/5/22
Spectrum Analyzer KEYSIGHT	N9030B	MY57140488	2025/3/11	2026/3/10
RF cable	JB200	Cable-OVEN-02	NA	NA
DC-6GHz 20dB 50W Fixed attenuator Woken	MDC9331N-20	0724	2024/7/15	2026/7/14

- Note: 1. The calibration interval of the above test instruments is 12/24 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. Test date: 2025/4/27~2025/9/30

4.1.4 Test Procedures

Conducted Power Measurement:

The EUT is configured by emulator to set data modulation and maximum power using WWAN technology and link to spectrum analyzer measurements. Set the EUT to transmit under low, middle and high channel and record the power level shown on spectrum analyzer. Power measurements use detector average (rms).

Measurement method refers to ANSI C63.26 section 5.2.4.4.

- a. Set span to $2 \times$ to $3 \times$ the OBW.
- b. Set RBW = 1% to 5% of the OBW.
- c. Set VBW $\geq 3 \times$ RBW.
- d. Set number of measurement points in sweep $\geq 2 \times$ span / RBW.
- e. Set Sweep time = auto-couple.
- f. Detector = power averaging (rms).
- g. Set sweep trigger to "free run."
- h. Trace average at least 100 traces in power averaging (rms) mode.
- i. Use the Band/Channel Power function to determine the integrated power per 10 MHz bandwidth and full bandwidth, according to the 47 CFR FCC Part 96 standard.
- j. If Duty cycle < 98%, Add $10 \log (1/\text{duty cycle})$ to the measured power level to compute the average power during continuous transmission.

Maximum EIRP / ERP

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation as follows:

$$\text{EIRP} = P_{\text{Meas}} + G_T$$

$$\text{ERP} = P_{\text{Meas}} + G_T - 2.15$$

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively

(expressed in the same units as P_{Meas} , e.g., dBm or dBW)

P_{Meas} measured transmitter output power or PSD, in dBm or dBW

G_T gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

4.1.5 Deviation from Test Standard

No deviation.

4.1.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.1.7 Test Results

Input Power:	12 Vdc	Environmental Conditions:	23°C, 71% RH	Tested By:	Noah Chang
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Mode A1

Conducted Output Power and EIRP Power (dBm/10MHz)

Bandwidth	Frequency (MHz)	Modulation	Antenna				Total	EIRP (dBm/10MHz)	Verdict
			1	2	3	4			
10M	3555	QPSK	17.27	17.25	17.62	17.58	23.45	28.97	PASS
		64QAM	17.21	17.19	17.59	17.46	23.39	28.91	PASS
		256QAM	17.14	17.11	17.47	17.42	23.31	28.83	PASS
	3624.99	QPSK	17.53	17.25	17.21	17.29	23.34	28.86	PASS
		64QAM	17.49	17.21	17.15	17.24	23.30	28.82	PASS
		256QAM	17.42	17.19	17.12	17.17	23.25	28.77	PASS
	3694.98	QPSK	17.46	17.27	17.21	17.59	23.41	28.93	PASS
		64QAM	17.41	17.24	17.19	17.51	23.36	28.88	PASS
		256QAM	17.35	17.14	17.14	17.42	23.28	28.80	PASS
20M	3560.01	QPSK	17.73	17.85	17.76	17.88	23.83	29.35	PASS
		64QAM	17.62	17.74	17.66	17.82	23.73	29.25	PASS
		256QAM	17.58	17.61	17.57	17.69	23.63	29.15	PASS
	3624.99	QPSK	17.98	17.66	17.71	17.94	23.85	29.37	PASS
		64QAM	17.83	17.63	17.66	17.72	23.73	29.25	PASS
		256QAM	17.76	17.59	17.62	17.64	23.67	29.19	PASS
	3690	QPSK	17.42	17.2	17.42	17.29	23.35	28.87	PASS
		64QAM	17.36	17.16	17.35	17.24	23.30	28.82	PASS
		256QAM	17.27	17.09	17.29	17.16	23.22	28.74	PASS
40M	3570	QPSK	17.64	17.58	17.13	17.46	23.48	29.00	PASS
		64QAM	17.55	17.51	17.06	17.39	23.40	28.92	PASS
		256QAM	17.43	17.42	17.01	17.32	23.32	28.84	PASS
	3624.99	QPSK	17.65	17.53	17.63	17.7	23.65	29.17	PASS
		64QAM	17.62	17.47	17.55	17.67	23.60	29.12	PASS
		256QAM	17.53	17.36	17.42	17.61	23.50	29.02	PASS
	3679.98	QPSK	17.96	17.91	17.1	17.3	23.60	29.12	PASS
		64QAM	17.84	17.88	17.03	17.26	23.54	29.06	PASS
		256QAM	17.73	17.72	17.01	17.15	23.44	28.96	PASS

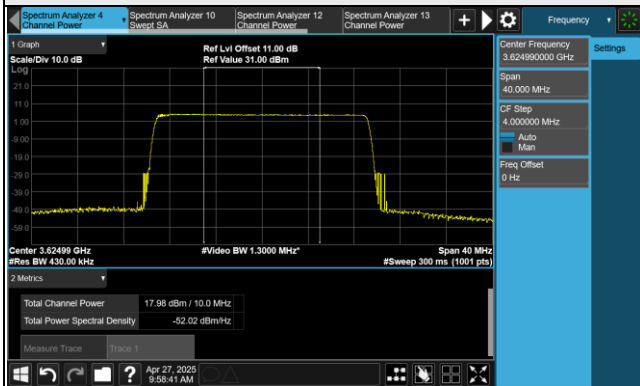
Note:

1. Correlated Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2/2] = 5.52\text{dBi}$
2. EIRP (dBm/10MHz) = Total Conducted Output Power (dBm/10MHz) + Directional Gain

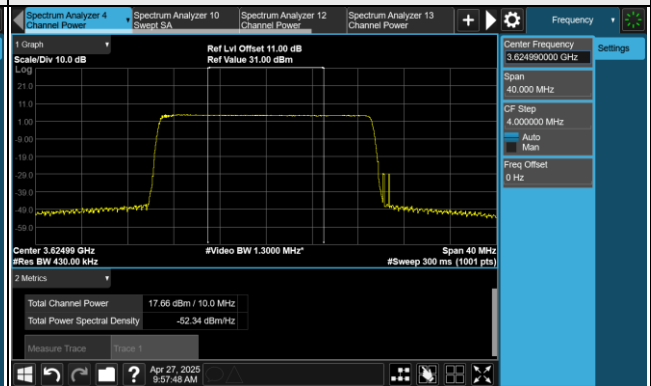
Spectrum Plot of Worst Value

20MHz / QPSK

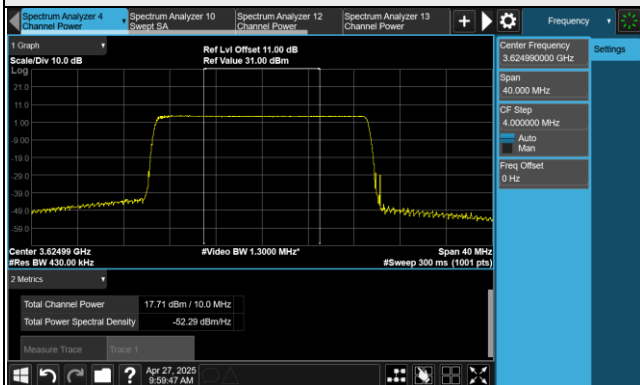
Ant.1



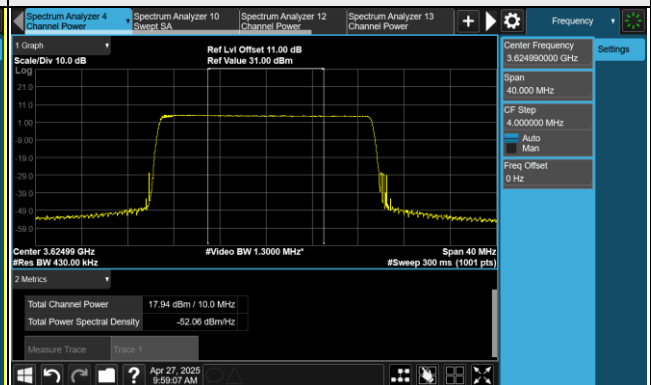
Ant.2



Ant.3



Ant.4



Full Conducted Output Power and Full EIRP Power (dBm/Channel Bandwidth)

Bandwidth	Frequency (MHz)	Modulation	Antenna				Total	EIRP (dBm/Channel Bandwidth)	Verdict
			1	2	3	4			
10M	3555	QPSK	17.27	17.25	17.62	17.58	23.45	28.97	PASS
		64QAM	17.21	17.19	17.59	17.46	23.39	28.91	PASS
		256QAM	17.14	17.11	17.47	17.42	23.31	28.83	PASS
	3624.99	QPSK	17.53	17.25	17.21	17.29	23.34	28.86	PASS
		64QAM	17.49	17.21	17.15	17.24	23.30	28.82	PASS
		256QAM	17.42	17.19	17.12	17.17	23.25	28.77	PASS
	3694.98	QPSK	17.46	17.27	17.21	17.59	23.41	28.93	PASS
		64QAM	17.41	17.24	17.19	17.51	23.36	28.88	PASS
		256QAM	17.35	17.14	17.14	17.42	23.28	28.80	PASS
20M	3560.01	QPSK	20.23	20.45	20.56	20.61	26.49	32.01	PASS
		64QAM	20.16	20.33	20.47	20.55	26.40	31.92	PASS
		256QAM	20.04	20.29	20.36	20.42	26.30	31.82	PASS
	3624.99	QPSK	20.50	20.37	20.47	20.58	26.50	32.02	PASS
		64QAM	20.41	20.32	20.42	20.51	26.44	31.96	PASS
		256QAM	20.35	20.29	20.39	20.41	26.38	31.90	PASS
	3690	QPSK	19.93	19.80	19.83	19.87	25.88	31.40	PASS
		64QAM	19.84	19.73	19.77	19.84	25.82	31.34	PASS
		256QAM	19.79	19.62	19.73	19.72	25.74	31.26	PASS
40M	3570	QPSK	23.48	23.48	23.93	23.89	29.72	35.24	PASS
		64QAM	23.41	23.37	23.61	23.74	29.56	35.08	PASS
		256QAM	23.36	23.26	23.59	23.71	29.50	35.02	PASS
	3624.99	QPSK	23.47	23.17	23.43	23.48	29.41	34.93	PASS
		64QAM	23.39	23.14	23.37	23.42	29.35	34.87	PASS
		256QAM	23.31	23.06	23.32	23.35	29.28	34.80	PASS
	3679.98	QPSK	23.84	23.48	23.40	23.53	29.59	35.11	PASS
		64QAM	23.79	23.41	23.29	23.46	29.51	35.03	PASS
		256QAM	23.71	23.36	23.21	23.44	29.45	34.97	PASS

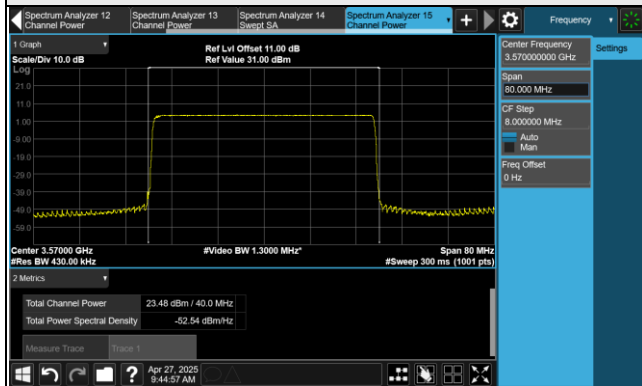
Note:

1. Correlated Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2/2] = 5.52\text{dBi}$
2. EIRP (dBm/Channel Bandwidth) = Total Conducted Output Power (dBm/Channel Bandwidth) + Directional Gain

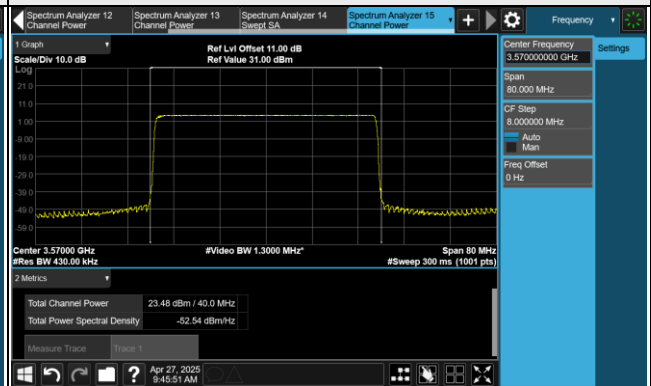
Spectrum Plot of Worst Value

40MHz / QPSK

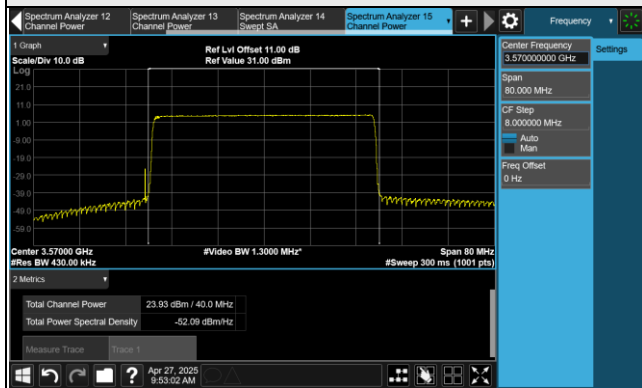
Ant.1



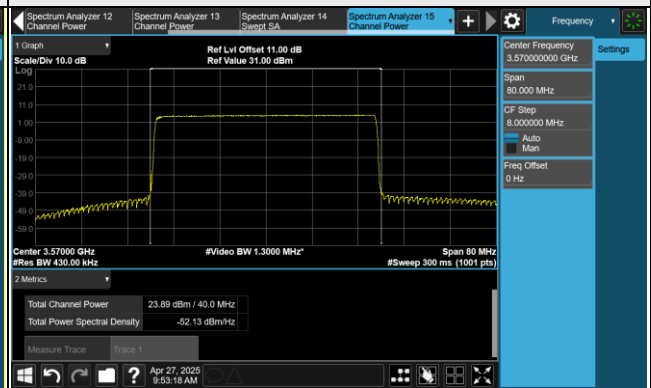
Ant.2



Ant.3



Ant.4



Mode A2 / A3

Conducted Output Power and EIRP Power (dBm/10MHz)

Bandwidth	Frequency (MHz)	Modulation	Carrier	Antenna				Total	EIRP (dBm/10MHz)	Verdict
				1	2	3	4			
10M+20M	3555+3690	QPSK	CC0	14.61	14.72	14.95	15.12	20.88	29.66	PASS
			CC1	15.23	15.31	15.36	15.51	21.37		
		64QAM	CC0	14.55	14.67	14.91	15.06	20.82	29.62	PASS
			CC1	15.21	15.27	15.32	15.49	21.34		
		256QAM	CC0	14.47	14.63	14.88	14.98	20.77	29.57	PASS
			CC1	15.19	15.21	15.27	15.42	21.29		
	3595.02+3660	QPSK	CC0	14.45	14.84	14.89	15.24	20.88	29.17	PASS
			CC1	14.57	14.41	14.19	14.24	20.38		
		64QAM	CC0	14.37	14.73	14.81	15.21	20.81	29.11	PASS
			CC1	14.51	14.36	14.16	14.19	20.33		
		256QAM	CC0	14.32	14.65	14.75	15.16	20.75	29.05	PASS
			CC1	14.49	14.27	14.07	14.14	20.27		
	3617.52+3637.53	QPSK	CC0	14.48	14.65	14.8	14.93	20.74	29.31	PASS
			CC1	15.01	14.8	14.62	14.74	20.82		
		64QAM	CC0	14.42	14.57	14.73	14.88	20.67	29.25	PASS
			CC1	14.96	14.73	14.55	14.69	20.76		
		256QAM	CC0	14.35	14.52	14.68	14.75	20.60	29.18	PASS
			CC1	14.89	14.69	14.51	14.62	20.70		
	3555+3570	QPSK	CC0	14.36	13.85	14.13	13.95	20.10	29.09	PASS
			CC1	15.2	14.99	14.84	14.77	20.97		
		64QAM	CC0	14.31	13.81	14.08	13.91	20.05	29.03	PASS
			CC1	15.12	14.94	14.76	14.72	20.91		
		256QAM	CC0	14.29	13.79	14.04	13.89	20.03	29.00	PASS
			CC1	15.06	14.92	14.72	14.66	20.86		
	3675+3690	QPSK	CC0	13.86	13.32	13.37	13.75	19.60	28.80	PASS
			CC1	14.94	14.82	14.75	14.82	20.85		
		64QAM	CC0	13.81	13.29	13.33	13.72	19.56	28.77	PASS
			CC1	14.92	14.79	14.72	14.75	20.82		
		256QAM	CC0	13.75	13.24	13.31	13.66	19.52	28.72	PASS
			CC1	14.87	14.73	14.67	14.73	20.77		

Bandwidth	Frequency (MHz)	Modulation	Carrier	Antenna				Total	EIRP (dBm/10MHz)	Verdict
				1	2	3	4			
20M+10M	3560.01+3694.98	QPSK	CC0	15.06	15.29	15.41	15.4	21.31	29.32	PASS
			CC1	14.11	14.06	14.29	14.25	20.20		
		64QAM	CC0	14.98	15.21	15.37	15.32	21.24	29.26	PASS
			CC1	14.06	14.01	14.24	14.21	20.15		
		256QAM	CC0	14.91	15.19	15.34	15.29	21.21	29.22	PASS
			CC1	14.01	13.98	14.21	14.17	20.11		
	3590.01+3655.02	QPSK	CC0	15.4	15.68	15.46	14.97	21.41	29.44	PASS
			CC1	14.26	14.17	14.11	14.72	20.34		
		64QAM	CC0	15.34	15.61	15.41	14.93	21.35	29.38	PASS
			CC1	14.21	14.09	14.09	14.66	20.29		
		256QAM	CC0	15.31	15.55	15.39	14.88	21.31	29.33	PASS
			CC1	14.19	14.01	14.03	14.59	20.23		
	3612.51+3632.52	QPSK	CC0	14.78	15.11	15.31	14.63	20.99	29.15	PASS
			CC1	14.19	14.21	14.09	14.29	20.22		
		64QAM	CC0	14.69	15.04	15.26	14.55	20.91	29.09	PASS
			CC1	14.14	14.18	14.01	14.27	20.17		
		256QAM	CC0	14.62	15.01	15.17	14.52	20.86	29.04	PASS
			CC1	14.09	14.14	13.97	14.23	20.13		
	3560.01+3575.01	QPSK	CC0	15.11	14.85	14.69	14.65	20.85	29.01	PASS
			CC1	14.43	14.25	13.78	13.7	20.07		
		64QAM	CC0	15.09	14.79	14.61	14.59	20.80	28.95	PASS
			CC1	14.36	14.21	13.72	13.62	20.01		
		256QAM	CC0	14.97	14.74	14.55	14.54	20.72	28.88	PASS
			CC1	14.26	14.15	13.69	13.49	19.93		
	3679.98+3694.98	QPSK	CC0	14.82	14.29	14.44	14.8	20.61	28.76	PASS
			CC1	13.99	13.95	13.5	13.73	19.82		
		64QAM	CC0	14.79	14.24	14.39	14.72	20.56	28.71	PASS
			CC1	13.92	13.91	13.46	13.69	19.77		
		256QAM	CC0	14.71	14.21	14.31	14.69	20.51	28.66	PASS
			CC1	13.88	13.89	13.42	13.62	19.73		

Bandwidth	Frequency (MHz)	Modulation	Carrier	Antenna				Total	EIRP (dBm/10MHz)	Verdict
				1	2	3	4			
20M+20M	3560.01+3690	QPSK	CC0	15.09	15.04	15.45	15.27	21.24	29.32	PASS
			CC1	14.23	14.36	14.29	14.24	20.30		
		64QAM	CC0	15.01	14.92	15.41	15.22	21.16	29.27	PASS
			CC1	14.21	14.31	14.23	14.21	20.26		
		256QAM	CC0	14.97	14.88	15.39	15.19	21.13	29.23	PASS
			CC1	14.16	14.29	14.18	14.17	20.22		
	3595.02+3655.02	QPSK	CC0	15.48	15.67	15.47	15.96	21.67	29.71	PASS
			CC1	14.92	14.49	14.61	14.41	20.63		
		64QAM	CC0	15.19	15.66	15.41	15.83	21.55	29.60	PASS
			CC1	14.69	14.45	14.59	14.31	20.53		
		256QAM	CC0	15.07	15.58	15.38	15.77	21.48	29.53	PASS
			CC1	14.61	14.43	14.51	14.24	20.47		
	3612.51+3637.53	QPSK	CC0	14.98	15.35	15.01	15.34	21.19	29.54	PASS
			CC1	15.03	14.86	14.68	14.64	20.83		
		64QAM	CC0	14.92	15.31	14.95	15.29	21.14	29.49	PASS
			CC1	15.01	14.78	14.62	14.59	20.77		
		256QAM	CC0	14.83	15.24	14.88	15.24	21.07	29.43	PASS
			CC1	14.96	14.72	14.57	14.51	20.71		
	3560.01+3580.02	QPSK	CC0	15.28	14.83	14.88	14.86	20.99	29.22	PASS
			CC1	14.8	14.36	14.15	14.06	20.37		
		64QAM	CC0	15.21	14.75	14.81	14.79	20.91	29.15	PASS
			CC1	14.76	14.31	14.06	13.96	20.30		
		256QAM	CC0	15.17	14.72	14.76	14.74	20.87	29.10	PASS
			CC1	14.72	14.22	14.01	13.92	20.25		
	3670.02+3690	QPSK	CC0	14.6	13.9	14.07	13.84	20.13	28.96	PASS
			CC1	15.25	14.69	14.7	14.01	20.71		
		64QAM	CC0	14.55	13.85	14.01	13.75	20.07	28.90	PASS
			CC1	15.21	14.62	14.66	13.97	20.66		
		256QAM	CC0	14.51	13.81	13.95	13.72	20.03	28.87	PASS
			CC1	15.19	14.57	14.62	13.94	20.62		

Note:

1. Correlated Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2/2] = 5.52\text{dBi}$
2. EIRP (dBm/10MHz) = Total Conducted Output Power (dBm/10MHz) + Directional Gain

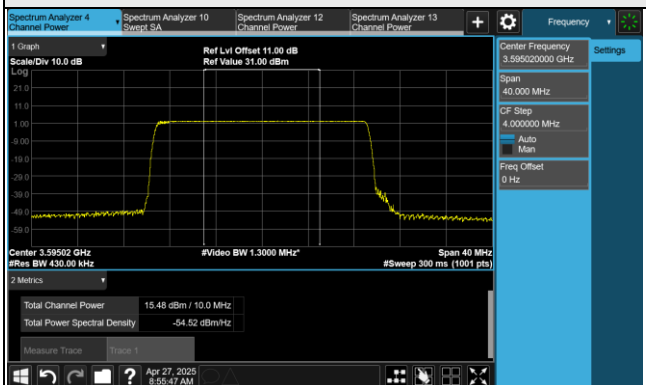
Spectrum Plot of Worst Value

20MHz+20MHz / QPSK

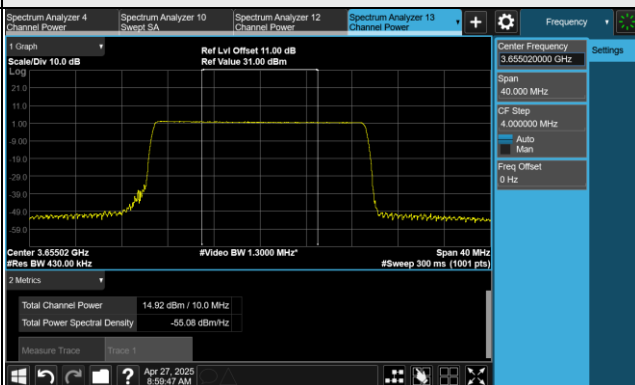
3595.02 MHz+3655.02 MHz

Ant.1

3595.02 MHz

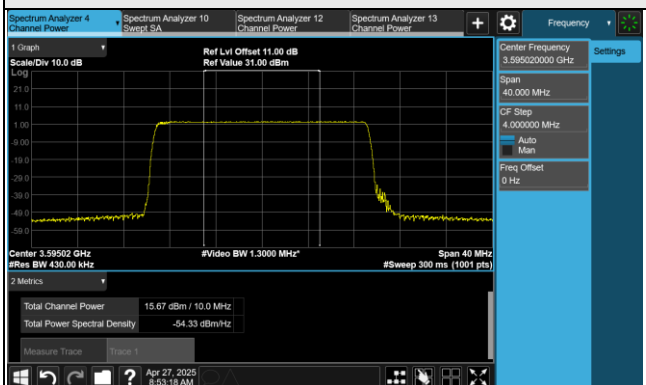


3655.02 MHz

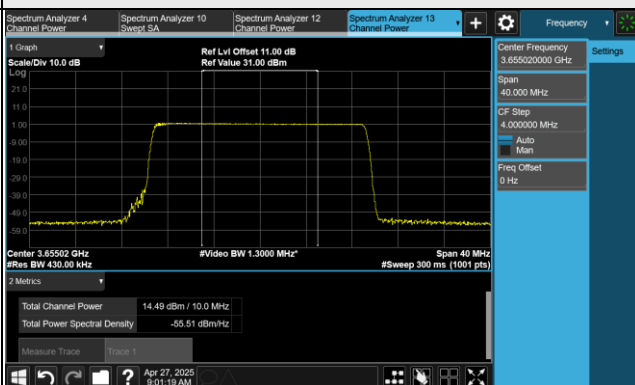


Ant.2

3595.02 MHz

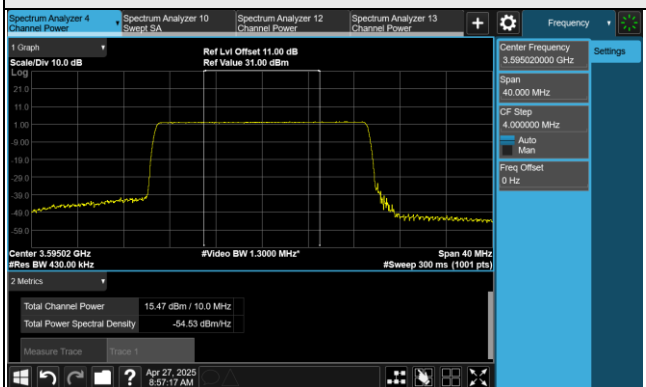


3655.02 MHz

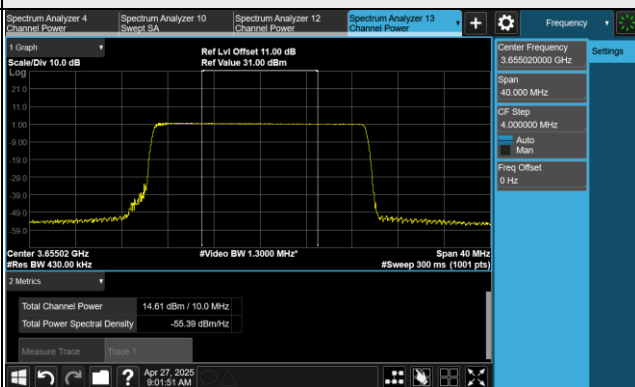


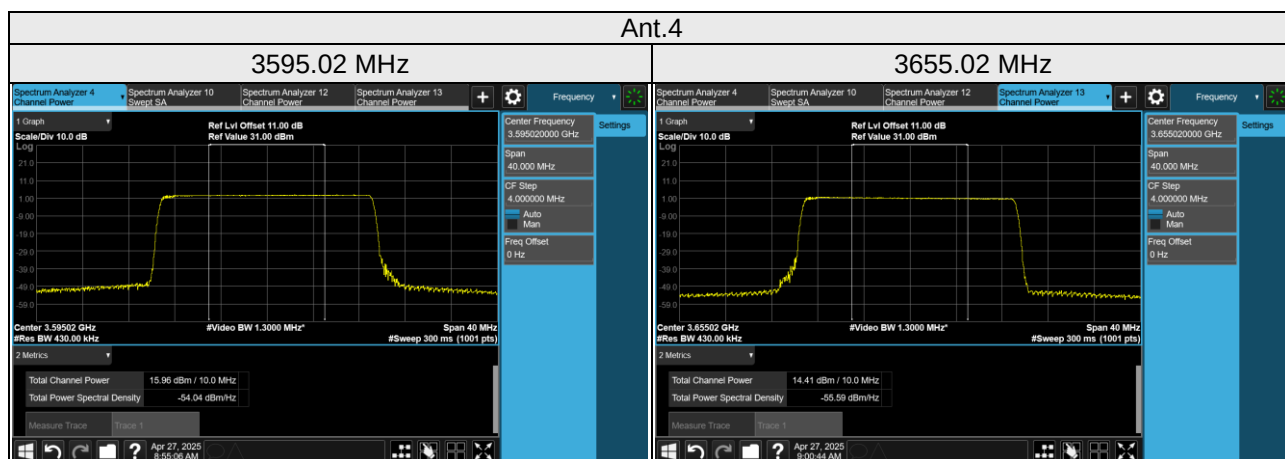
Ant.3

3595.02 MHz



3655.02 MHz





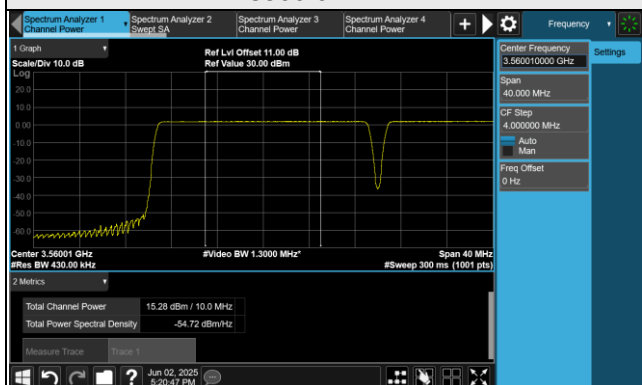
Spectrum Plot of Worst Value

20MHz+20MHz / QPSK

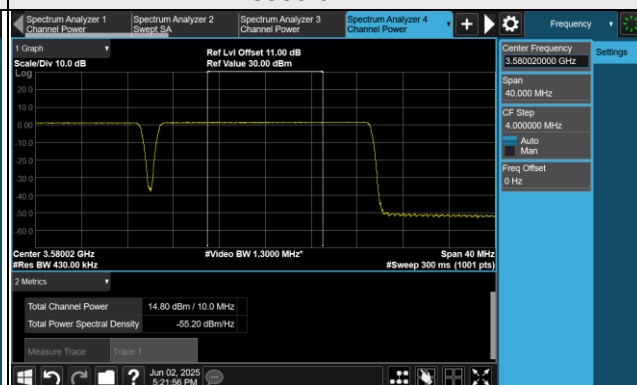
3560.01 MHz+3580.02 MHz

Ant.1

3560.01 MHz

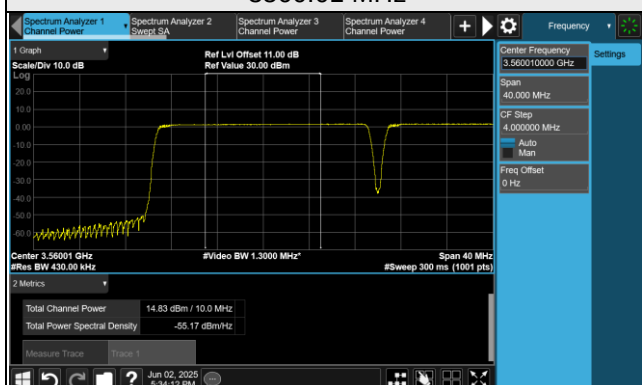


3580.02 MHz

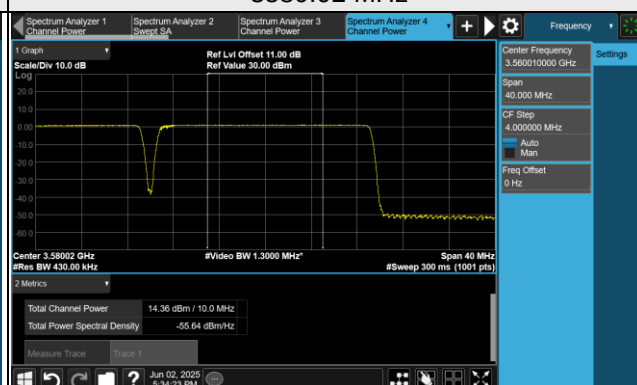


Ant.2

3560.01 MHz

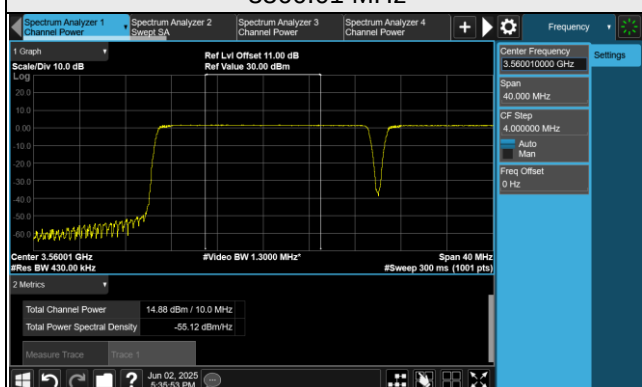


3580.02 MHz

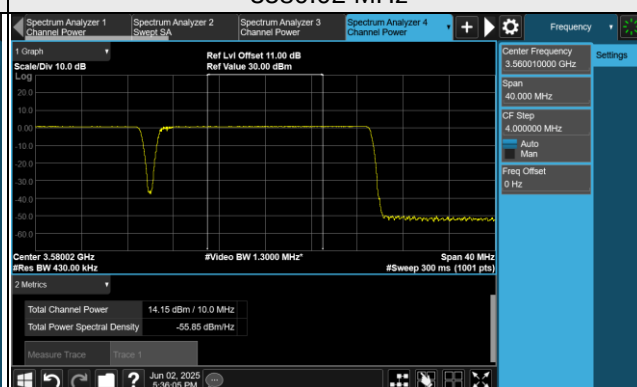


Ant.3

3560.01 MHz

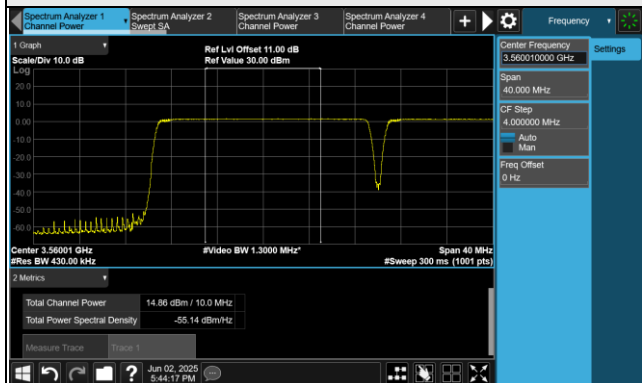


3580.02 MHz

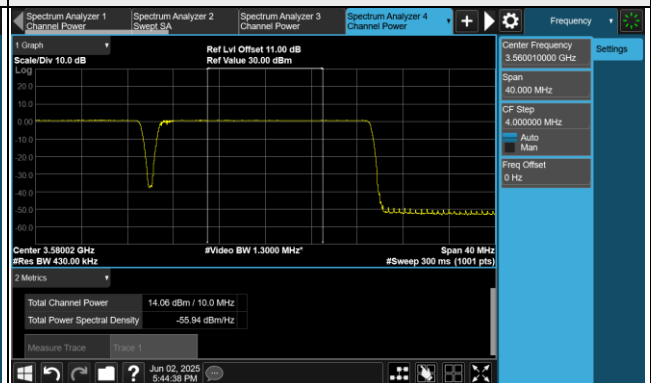


Ant.4

3560.01 MHz



3580.02 MHz



Full Conducted Output Power and Full EIRP Power (dBm/Channel Bandwidth)

Bandwidth	Frequency (MHz)	Modulation	Carrier	Antenna				Total	EIRP (dBm/Channel Bandwidth)	Verdict
				1	2	3	4			
10M+20M	3555+3690	QPSK	CC0	14.61	14.72	14.95	15.12	20.88	30.98	PASS
			CC1	17.45	17.56	17.63	17.71	23.61		
		64QAM	CC0	14.55	14.67	14.91	15.06	20.82	30.94	PASS
			CC1	17.41	17.52	17.59	17.66	23.57		
		256QAM	CC0	14.47	14.63	14.88	14.98	20.77	30.89	PASS
			CC1	17.39	17.45	17.54	17.62	23.52		
	3595.02+3660	QPSK	CC0	14.45	14.84	14.89	15.24	20.88	30.73	PASS
			CC1	17	17.19	17.24	17.33	23.21		
		64QAM	CC0	14.37	14.73	14.81	15.21	20.81	30.77	PASS
			CC1	17.49	17.31	17.23	17.14	23.32		
		256QAM	CC0	14.32	14.65	14.75	15.16	20.75	30.70	PASS
			CC1	17.46	17.24	17.03	17.11	23.23		
	3617.52+3637.53	QPSK	CC0	14.48	14.65	14.8	14.93	20.74	30.86	PASS
			CC1	17.51	17.44	17.4	17.51	23.49		
		64QAM	CC0	14.42	14.57	14.73	14.88	20.67	30.80	PASS
			CC1	17.46	17.41	17.32	17.49	23.44		
		256QAM	CC0	14.35	14.52	14.68	14.75	20.60	30.72	PASS
			CC1	17.41	17.39	17.29	17.24	23.35		
	3555+3570	QPSK	CC0	14.36	13.85	14.13	13.95	20.10	30.63	PASS
			CC1	17.92	17.64	17.19	16.98	23.47		
		64QAM	CC0	14.31	13.81	14.08	13.91	20.05	30.59	PASS
			CC1	17.89	17.62	17.14	16.94	23.43		
		256QAM	CC0	14.29	13.79	14.04	13.89	20.03	30.56	PASS
			CC1	17.81	17.59	17.13	16.91	23.40		
	3675+3690	QPSK	CC0	13.86	13.32	13.37	13.75	19.60	30.40	PASS
			CC1	17.44	17.36	17.24	17.31	23.36		
		64QAM	CC0	13.81	13.29	13.33	13.72	19.56	30.37	PASS
			CC1	17.41	17.31	17.21	17.26	23.32		
		256QAM	CC0	13.75	13.24	13.31	13.66	19.52	30.32	PASS
			CC1	17.36	17.26	17.19	17.21	23.28		

Bandwidth	Frequency (MHz)	Modulation	Carrier	Antenna				Total	EIRP (dBm/ Channel Bandwidth)	Verdict
				1	2	3	4			
20M+10M	3560.01+ 3694.98	QPSK	CC0	17.87	17.71	17.82	17.74	23.81	30.90	PASS
			CC1	14.11	14.06	14.29	14.25	20.20		
		64QAM	CC0	17.79	17.67	17.71	17.7	23.74	30.84	PASS
			CC1	14.06	14.01	14.24	14.21	20.15		
		256QAM	CC0	17.74	17.61	17.65	17.66	23.69	30.79	PASS
			CC1	14.01	13.98	14.21	14.17	20.11		
	3590.01+ 3655.02	QPSK	CC0	17.99	17.89	17.81	17.94	23.93	31.03	PASS
			CC1	14.26	14.17	14.11	14.72	20.34		
		64QAM	CC0	18.01	17.88	17.81	17.85	23.91	31.00	PASS
			CC1	14.21	14.09	14.09	14.66	20.29		
		256QAM	CC0	17.95	17.84	17.75	17.81	23.86	30.94	PASS
			CC1	14.19	14.01	14.03	14.59	20.23		
	3612.51+ 3632.52	QPSK	CC0	17.99	17.82	17.75	17.91	23.89	30.96	PASS
			CC1	14.19	14.21	14.09	14.29	20.22		
		64QAM	CC0	17.89	17.76	17.65	17.84	23.81	30.89	PASS
			CC1	14.14	14.18	14.01	14.27	20.17		
		256QAM	CC0	17.81	17.69	17.59	17.75	23.73	30.82	PASS
			CC1	14.09	14.14	13.97	14.23	20.13		
	3560.01+ 3575.01	QPSK	CC0	17.73	17.43	17.28	17.21	23.44	30.60	PASS
			CC1	14.43	14.25	13.78	13.7	20.07		
		64QAM	CC0	17.69	17.34	17.21	17.16	23.38	30.54	PASS
			CC1	14.36	14.21	13.72	13.62	20.01		
		256QAM	CC0	17.62	17.31	17.19	17.11	23.33	30.49	PASS
			CC1	14.26	14.15	13.69	13.49	19.93		
	3679.98+ 3694.98	QPSK	CC0	17.65	16.9	17.02	17.38	23.27	30.41	PASS
			CC1	13.99	13.95	13.5	13.73	19.82		
		64QAM	CC0	17.61	16.84	16.97	17.32	23.22	30.36	PASS
			CC1	13.92	13.91	13.46	13.69	19.77		
		256QAM	CC0	17.55	16.78	16.91	17.29	23.16	30.31	PASS
			CC1	13.88	13.89	13.42	13.62	19.73		

Bandwidth	Frequency (MHz)	Modulation	Carrier	Antenna				Total	EIRP (dBm/Channel Bandwidth)	Verdict
				1	2	3	4			
20M+20M	3560.01+3690	QPSK	CC0	17.7	17.64	17.62	17.88	23.73	31.73	PASS
			CC1	16.58	16.55	16.42	16.77	22.60		
		64QAM	CC0	17.62	17.59	17.55	17.79	23.66	31.66	PASS
			CC1	16.51	16.47	16.39	16.63	22.52		
		256QAM	CC0	17.55	17.51	17.49	17.71	23.59	31.59	PASS
			CC1	16.45	16.42	16.31	16.55	22.45		
	3595.02+3655.02	QPSK	CC0	17.78	17.15	17.24	18.55	23.74	32.01	PASS
			CC1	17.29	17.18	17.25	16.99	23.20		
		64QAM	CC0	17.79	17.14	17.24	18.53	23.73	32.00	PASS
			CC1	17.26	17.17	17.27	17.01	23.20		
		256QAM	CC0	17.65	17.09	17.21	18.46	23.66	31.95	PASS
			CC1	17.23	17.13	17.26	16.94	23.16		
	3612.51+3637.53	QPSK	CC0	17.38	17.85	17.38	17.63	23.59	32.01	PASS
			CC1	17.58	17.59	17.09	17.08	23.36		
		64QAM	CC0	17.41	17.87	17.41	17.65	23.61	32.00	PASS
			CC1	17.52	17.43	17.12	17.11	23.32		
		256QAM	CC0	17.34	17.86	17.35	17.59	23.56	31.94	PASS
			CC1	17.43	17.35	17.07	17.06	23.25		
	3560.01+3580.02	QPSK	CC0	17.88	17.4	17.46	17.29	23.53	31.78	PASS
			CC1	17.43	16.96	16.75	16.55	22.96		
		64QAM	CC0	17.76	17.35	17.42	17.24	23.47	31.73	PASS
			CC1	17.39	16.92	16.67	16.51	22.91		
		256QAM	CC0	17.72	17.31	17.36	17.16	23.41	31.67	PASS
			CC1	17.35	16.89	16.61	16.43	22.85		
	3670.02+3690	QPSK	CC0	17.26	16.53	16.7	16.44	22.77	31.52	PASS
			CC1	17.72	17.22	17.17	16.57	23.21		
		64QAM	CC0	17.21	16.49	16.59	16.39	22.70	31.46	PASS
			CC1	17.66	17.16	17.09	16.54	23.15		
		256QAM	CC0	17.19	16.42	16.54	16.34	22.66	31.40	PASS
			CC1	17.54	17.12	17.01	16.51	23.08		

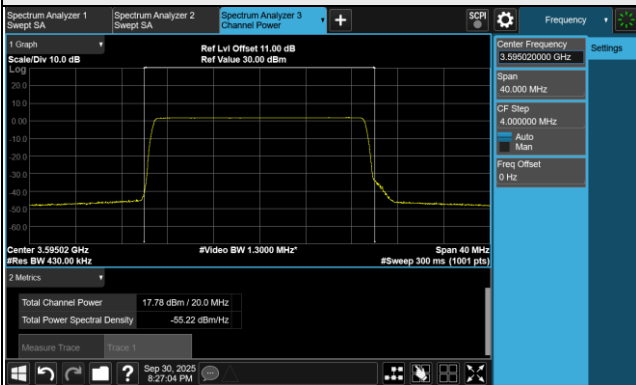
Note:

1. Correlated Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2/2] = 5.46\text{dBi}$
2. EIRP (dBm/Channel Bandwidth) = Total Conducted Output Power (dBm/Channel Bandwidth) + Directional Gain

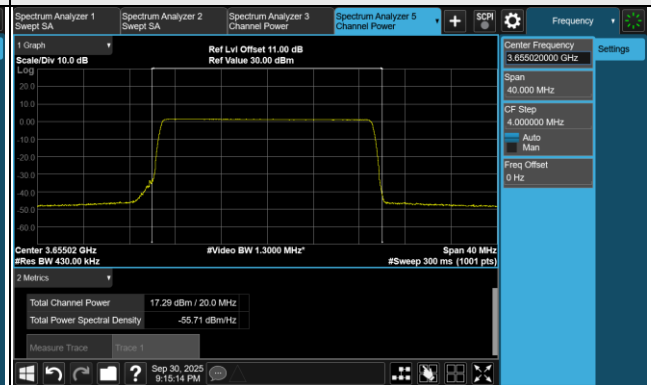
Spectrum Plot of Worst Value
20MHz+20MHz / QPSK
3595.02 MHz+3655.02 MHz

Ant.1

3595.02 MHz

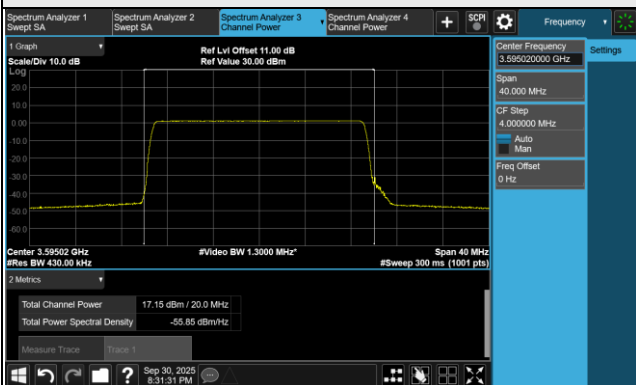


3655.02 MHz

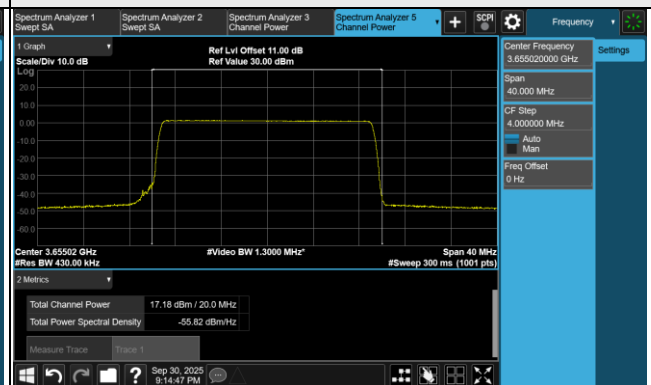


Ant.2

3595.02 MHz

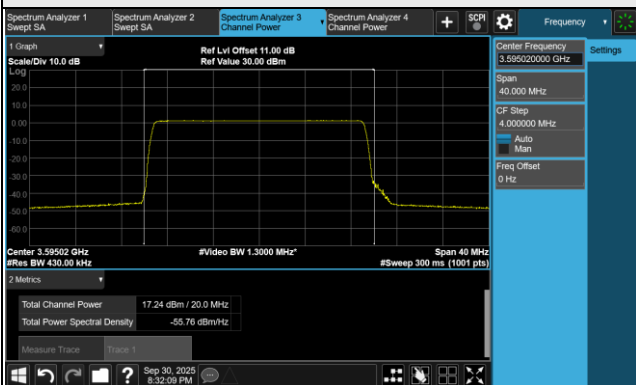


3655.02 MHz

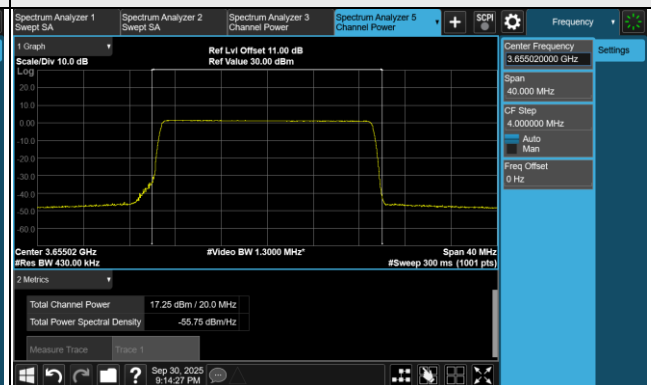


Ant.3

3595.02 MHz

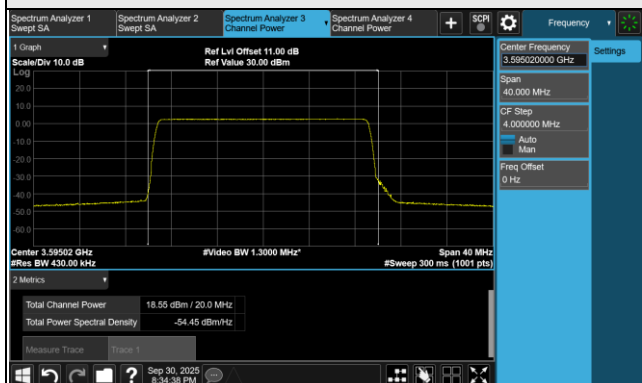


3655.02 MHz

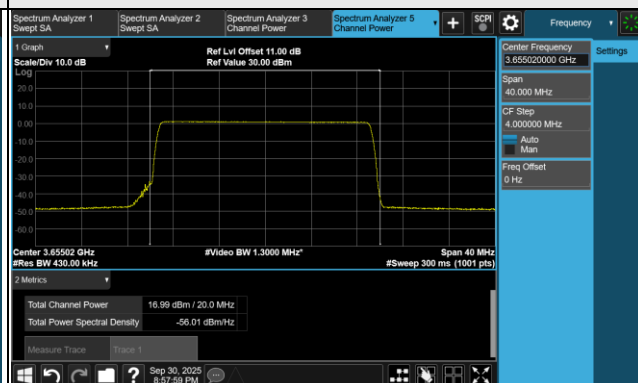


Ant.4

3595.02 MHz



3655.02 MHz



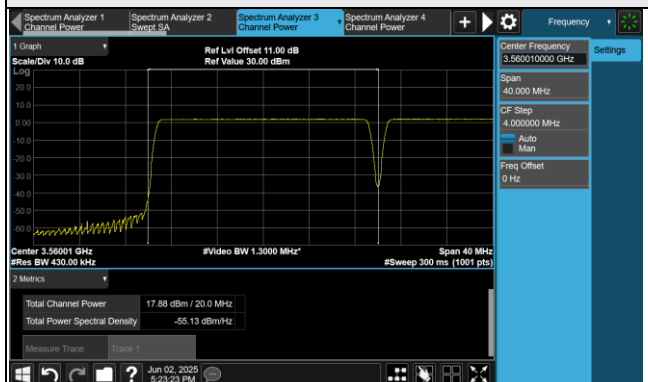
Spectrum Plot of Worst Value

20MHz+20MHz / QPSK

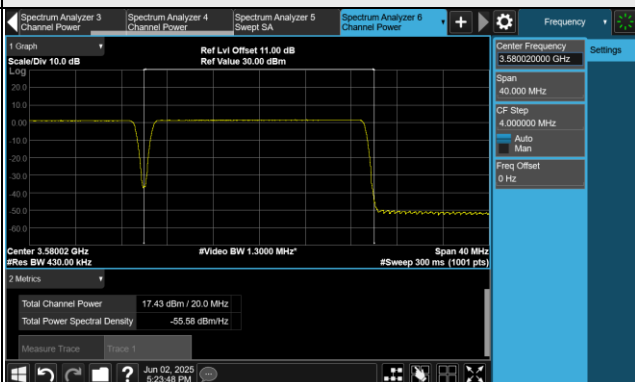
3560.01 MHz+3580.02 MHz

Ant.1

3560.01 MHz

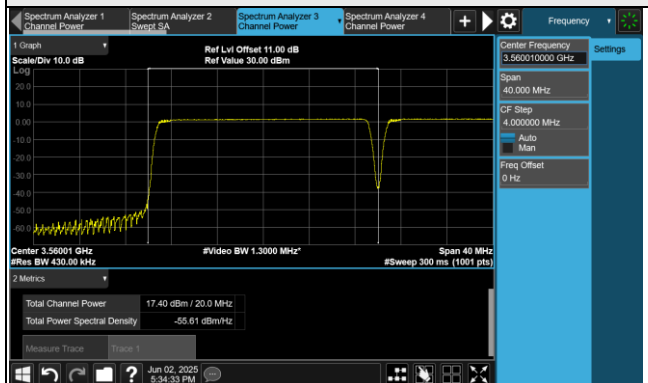


3580.02 MHz

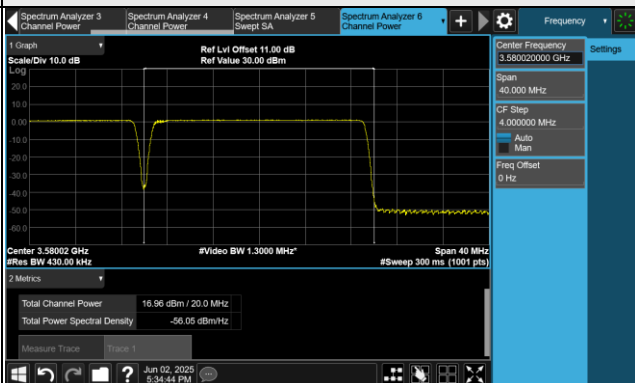


Ant.2

3560.01 MHz

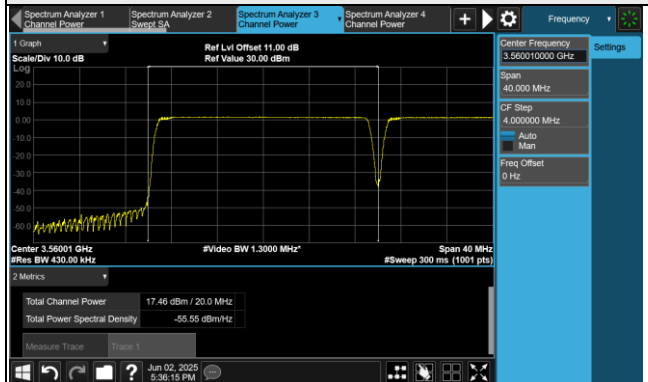


3580.02 MHz

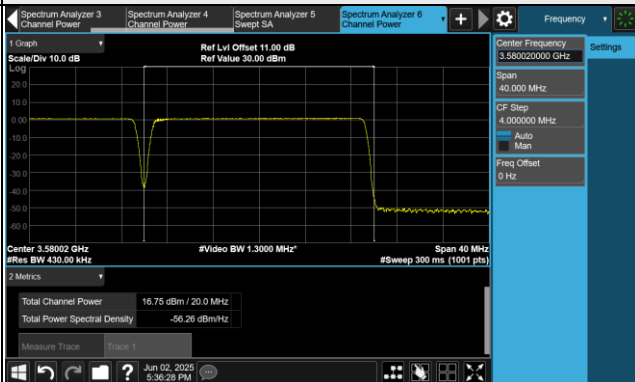


Ant.3

3560.01 MHz

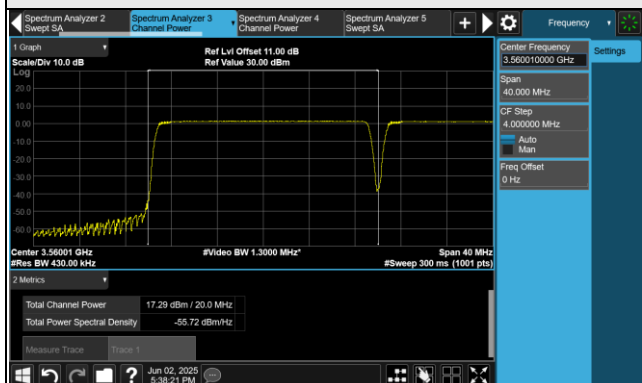


3580.02 MHz

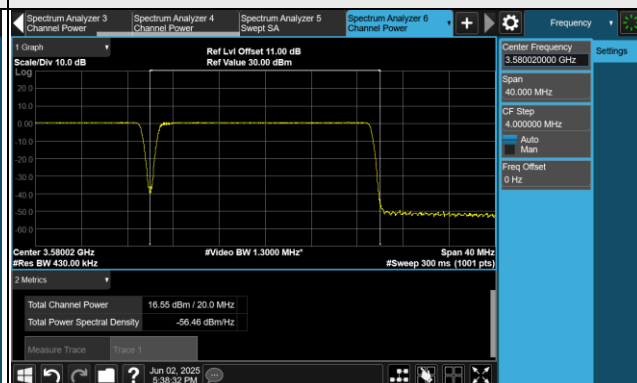


Ant.4

3560.01 MHz



3580.02 MHz



Mode B1

Conducted Output Power and EIRP Power (dBm/10MHz)

Bandwidth	Frequency (MHz)	Modulation	Antenna				Total	EIRP (dBm/10MHz)	Verdict
			1	2	3	4			
10M	3555	QPSK	11.34	11.47	10.92	11.05	17.22	28.74	PASS
		64QAM	11.31	11.42	10.89	10.98	17.18	28.70	PASS
		256QAM	11.27	11.35	10.85	10.91	17.12	28.64	PASS
	3624.99	QPSK	11.03	11.09	10.87	10.96	17.01	28.53	PASS
		64QAM	10.94	11.03	10.84	10.91	16.95	28.47	PASS
		256QAM	10.92	10.99	10.81	10.85	16.91	28.43	PASS
	3694.98	QPSK	10.86	10.85	10.53	10.96	16.82	28.34	PASS
		64QAM	10.81	10.82	10.49	10.91	16.78	28.30	PASS
		256QAM	10.76	10.75	10.43	10.89	16.73	28.25	PASS
20M	3560.01	QPSK	11.69	11.82	10.82	11.53	17.50	29.02	PASS
		64QAM	11.62	11.78	10.75	11.49	17.45	28.97	PASS
		256QAM	11.59	11.72	10.71	11.43	17.40	28.92	PASS
	3624.99	QPSK	11.44	11.51	11.26	11.41	17.43	28.95	PASS
		64QAM	11.36	11.47	11.21	11.36	17.37	28.89	PASS
		256QAM	11.32	11.41	11.15	11.29	17.31	28.83	PASS
	3690	QPSK	11.75	11.8	11.75	11.94	17.83	29.35	PASS
		64QAM	11.69	11.73	11.72	11.91	17.78	29.30	PASS
		256QAM	11.64	11.68	11.61	11.85	17.72	29.24	PASS
40M	3570	QPSK	11.83	12.38	11.85	11.86	18.01	29.53	PASS
		64QAM	11.8	12.31	11.79	11.81	17.95	29.47	PASS
		256QAM	11.76	12.26	11.72	11.71	17.89	29.41	PASS
	3624.99	QPSK	11.82	11.93	11.83	11.85	17.88	29.40	PASS
		64QAM	11.75	11.87	11.75	11.76	17.80	29.32	PASS
		256QAM	11.69	11.83	11.71	11.72	17.76	29.28	PASS
	3679.98	QPSK	11.31	11.28	11.4	11.66	17.44	28.96	PASS
		64QAM	11.29	11.24	11.36	11.61	17.40	28.92	PASS
		256QAM	11.21	11.19	11.32	11.58	17.35	28.87	PASS

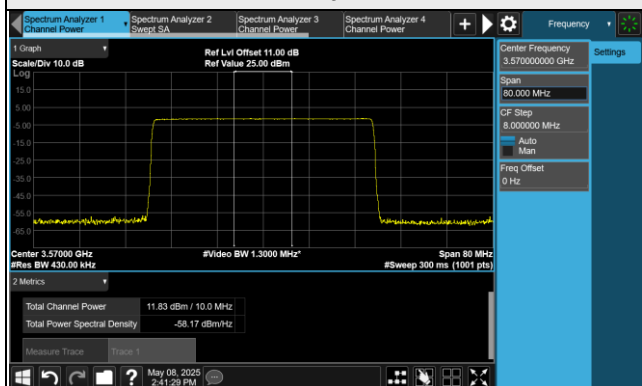
Note:

1. Correlated Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{G4/20})^2/4] = 11.52\text{dBi}$
2. EIRP (dBm/10MHz) = Total Conducted Output Power (dBm/10MHz) + Directional Gain

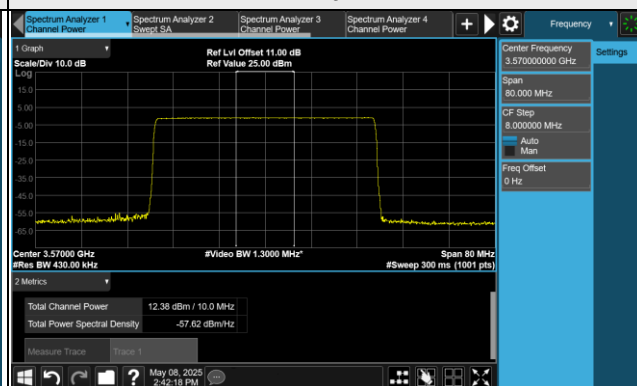
Spectrum Plot of Worst Value

40MHz / QPSK

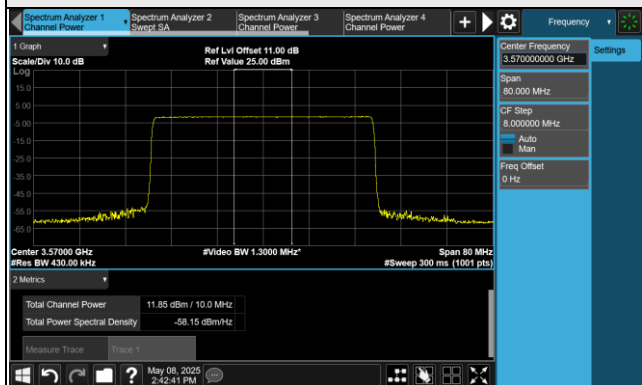
Ant.1



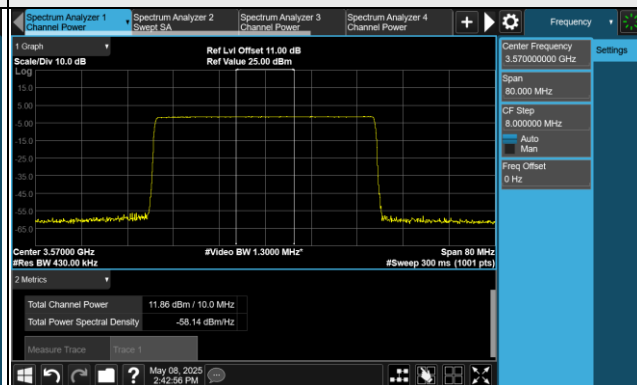
Ant.2



Ant.3



Ant.4



Full Conducted Output Power and Full EIRP Power (dBm/Channel Bandwidth)

Bandwidth	Frequency (MHz)	Modulation	Antenna				Total	EIRP (dBm/Channel Bandwidth)	Verdict
			1	2	3	4			
10M	3555	QPSK	11.34	11.47	10.92	11.05	17.22	28.74	PASS
		64QAM	11.31	11.42	10.89	10.98	17.18	28.70	PASS
		256QAM	11.27	11.35	10.85	10.91	17.12	28.64	PASS
	3624.99	QPSK	11.03	11.09	10.87	10.96	17.01	28.53	PASS
		64QAM	10.94	11.03	10.84	10.91	16.95	28.47	PASS
		256QAM	10.92	10.99	10.81	10.85	16.91	28.43	PASS
	3694.98	QPSK	10.86	10.85	10.53	10.96	16.82	28.34	PASS
		64QAM	10.81	10.82	10.49	10.91	16.78	28.30	PASS
		256QAM	10.76	10.75	10.43	10.89	16.73	28.25	PASS
20M	3560.01	QPSK	14.32	14.79	14.11	14.20	20.38	31.90	PASS
		64QAM	14.27	14.74	14.07	14.11	20.33	31.85	PASS
		256QAM	14.21	14.65	14.03	14.02	20.26	31.78	PASS
	3624.99	QPSK	14.08	14.12	13.88	14.00	20.04	31.56	PASS
		64QAM	14.04	14.07	13.82	13.97	20.00	31.52	PASS
		256QAM	14.01	14.00	13.79	13.92	19.95	31.47	PASS
	3690	QPSK	14.25	14.34	14.25	14.41	20.33	31.85	PASS
		64QAM	14.21	14.31	14.22	14.36	20.30	31.82	PASS
		256QAM	14.19	14.26	14.18	14.31	20.26	31.78	PASS
40M	3570	QPSK	17.76	17.83	17.81	17.40	23.72	35.24	PASS
		64QAM	17.66	17.79	17.77	17.36	23.67	35.19	PASS
		256QAM	17.61	17.72	17.72	17.32	23.62	35.14	PASS
	3624.99	QPSK	17.52	17.64	17.50	17.58	23.58	35.10	PASS
		64QAM	17.49	17.62	17.46	17.54	23.55	35.07	PASS
		256QAM	17.43	17.55	17.42	17.51	23.50	35.02	PASS
	3679.98	QPSK	17.06	17.16	17.08	17.33	23.18	34.70	PASS
		64QAM	17.01	17.12	17.04	17.29	23.14	34.66	PASS
		256QAM	16.99	17.09	17.01	17.21	23.10	34.62	PASS

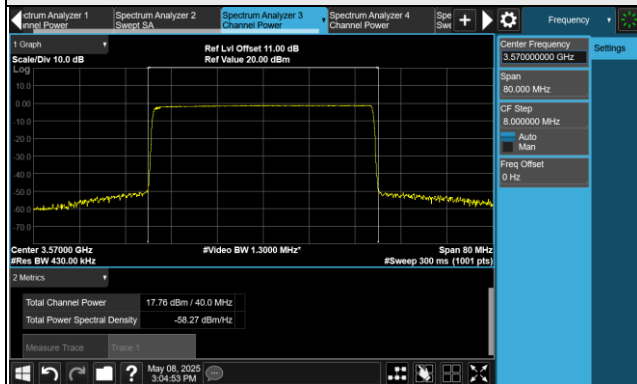
Note:

1. Correlated Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{G4/20})^2/4] = 11.52\text{dBi}$
2. EIRP (dBm/Channel Bandwidth) = Total Conducted Output Power (dBm/Channel Bandwidth) + Directional Gain

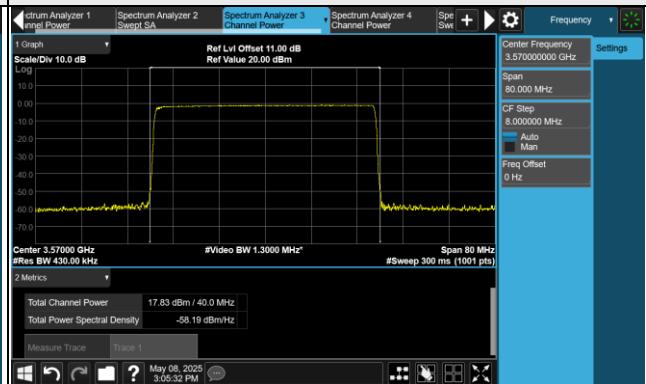
Spectrum Plot of Worst Value

40MHz / QPSK

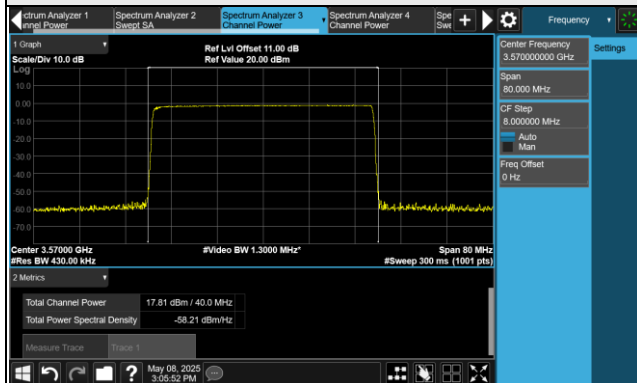
Ant.1



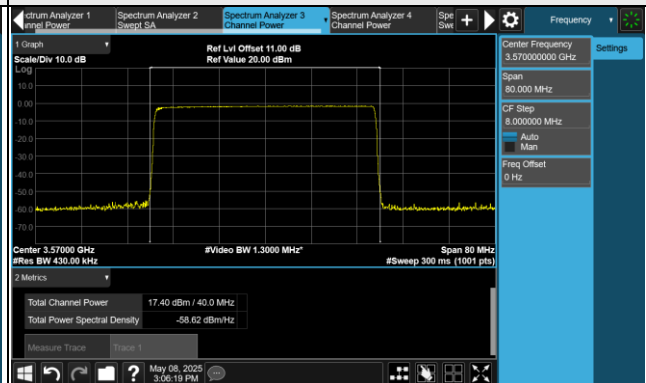
Ant.2



Ant.3



Ant.4



Mode B2 / B3

Conducted Output Power and EIRP Power (dBm/10MHz)

Bandwidth	Frequency (MHz)	Modulation	Carrier	Antenna				Total	EIRP (dBm/10MHz)	Verdict
				1	2	3	4			
10M+20M	3555+3690	QPSK	CC0	8.41	8.62	8.05	8.26	14.36	28.94	PASS
			CC1	8.43	8.66	8.13	8.47	14.45		
		64QAM	CC0	8.36	8.56	8.01	8.21	14.31	28.89	PASS
			CC1	8.39	8.58	8.11	8.43	14.40		
		256QAM	CC0	8.31	8.51	7.98	8.19	14.27	28.84	PASS
			CC1	8.34	8.54	8.06	8.37	14.35		
	3595.02+3660	QPSK	CC0	9.05	8.96	8.6	8.24	14.74	28.88	PASS
			CC1	7.64	7.97	7.88	8.1	13.92		
		64QAM	CC0	9.01	8.94	8.54	8.21	14.71	28.83	PASS
			CC1	7.62	7.92	7.79	7.98	13.85		
		256QAM	CC0	8.99	8.91	8.49	8.19	14.68	28.79	PASS
			CC1	7.57	7.89	7.73	7.94	13.81		
	3617.52+3637.53	QPSK	CC0	8.51	8.23	8.17	7.97	14.24	28.86	PASS
			CC1	8.26	8.47	8.31	8.49	14.40		
		64QAM	CC0	8.46	8.18	8.14	7.94	14.20	28.81	PASS
			CC1	8.21	8.43	8.29	8.42	14.36		
		256QAM	CC0	8.41	8.14	8.11	7.91	14.17	28.78	PASS
			CC1	8.19	8.39	8.24	8.39	14.32		
	3555+3570	QPSK	CC0	9.06	8.37	8.37	8.22	14.54	29.40	PASS
			CC1	9.77	8.95	8.95	8.91	15.18		
		64QAM	CC0	9.01	8.31	8.31	8.17	14.48	29.35	PASS
			CC1	9.69	8.92	8.9	8.86	15.13		
		256QAM	CC0	8.94	8.27	8.29	8.14	14.44	29.30	PASS
			CC1	9.62	8.89	8.84	8.82	15.08		
	3675+3690	QPSK	CC0	9.01	8.31	8.32	8.19	14.49	29.35	PASS
			CC1	9.72	8.87	8.91	8.88	15.13		
		64QAM	CC0	8.99	8.27	8.29	8.14	14.46	29.30	PASS
			CC1	9.65	8.76	8.88	8.83	15.07		
		256QAM	CC0	8.91	8.21	8.24	8.12	14.40	29.26	PASS
			CC1	9.62	8.73	8.82	8.79	15.03		

Bandwidth	Frequency (MHz)	Modulation	Carrier	Antenna				Total	EIRP (dBm/10MHz)	Verdict
				1	2	3	4			
20M+10M	3560.01+3694.98	QPSK	CC0	9.62	9.93	9.55	9.23	15.61	29.28	PASS
			CC1	7.33	7.79	7.62	7.84	13.67		
		64QAM	CC0	9.59	9.89	9.51	9.19	15.57	29.23	PASS
			CC1	7.29	7.69	7.55	7.79	13.60		
		256QAM	CC0	9.54	9.84	9.49	9.14	15.53	29.18	PASS
			CC1	7.21	7.61	7.51	7.75	13.55		
	3590.01+3655.02	QPSK	CC0	9.56	9.87	9.41	9.13	15.52	29.19	PASS
			CC1	7.2	7.71	7.57	7.71	13.57		
		64QAM	CC0	9.51	9.82	9.36	9.11	15.48	29.14	PASS
			CC1	7.14	7.65	7.54	7.64	13.52		
		256QAM	CC0	9.47	9.79	9.32	9.06	15.44	29.10	PASS
			CC1	7.11	7.61	7.51	7.59	13.48		
	3612.51+3632.52	QPSK	CC0	9.16	9.13	8.7	8.9	15.00	29.03	PASS
			CC1	7.86	8.07	7.66	8.03	13.93		
		64QAM	CC0	9.14	9.06	8.64	8.84	14.94	28.97	PASS
			CC1	7.81	8.01	7.62	7.97	13.88		
		256QAM	CC0	9.12	9.01	8.57	8.81	14.90	28.93	PASS
			CC1	7.76	7.94	7.56	7.92	13.82		
	3560.01+3575.01	QPSK	CC0	9.62	8.89	8.89	8.87	15.10	29.27	PASS
			CC1	9.04	8.07	8.07	8.02	14.34		
		64QAM	CC0	9.57	8.81	8.84	8.83	15.05	29.21	PASS
			CC1	9.01	8.02	8.01	7.91	14.28		
		256QAM	CC0	9.51	8.79	8.79	8.75	14.99	29.15	PASS
			CC1	8.87	7.96	7.95	7.88	14.21		
	3679.98+3694.98	QPSK	CC0	9.55	8.81	8.86	8.84	15.05	29.22	PASS
			CC1	9.01	8.02	8.03	7.95	14.30		
		64QAM	CC0	9.49	8.76	8.82	8.81	15.00	29.16	PASS
			CC1	8.88	7.94	7.95	7.92	14.21		
		256QAM	CC0	9.42	8.71	8.76	8.78	14.95	29.11	PASS
			CC1	8.83	7.91	7.91	7.85	14.17		

Bandwidth	Frequency (MHz)	Modulation	Carrier	Antenna				Total	EIRP (dBm/10MHz)	Verdict
				1	2	3	4			
20M+20M	3560.01+3690	QPSK	CC0	9.19	9.46	8.8	8.4	15.00	29.21	PASS
			CC1	8.51	8.65	8.25	7.83	14.34		
		64QAM	CC0	9.14	9.43	8.76	8.36	14.96	29.18	PASS
			CC1	8.49	8.61	8.19	7.79	14.30		
		256QAM	CC0	9.11	9.39	8.71	8.31	14.92	29.13	PASS
			CC1	8.42	8.55	8.14	7.74	14.24		
	3595.02+3655.02	QPSK	CC0	9.67	9.71	9.25	9.12	15.47	29.35	PASS
			CC1	7.65	8.17	8.16	8.15	14.06		
		64QAM	CC0	9.62	9.67	9.18	8.99	15.40	29.27	PASS
			CC1	7.61	8.06	8.01	8.1	13.97		
		256QAM	CC0	9.55	9.65	9.14	8.95	15.35	29.22	PASS
			CC1	7.59	8.01	7.95	8.02	13.92		
	3612.51+3637.53	QPSK	CC0	9.53	8.9	9.02	8.87	15.11	29.29	PASS
			CC1	8.44	8.25	8.28	8.46	14.38		
		64QAM	CC0	9.49	8.85	8.92	8.81	15.05	29.24	PASS
			CC1	8.41	8.21	8.21	8.42	14.33		
		256QAM	CC0	9.42	8.78	8.84	8.76	14.98	29.18	PASS
			CC1	8.36	8.16	8.19	8.39	14.30		
	3560.01+3580.02	QPSK	CC0	9.23	8.79	8.58	8.49	14.80	29.31	PASS
			CC1	9.26	8.93	8.43	8.25	14.76		
		64QAM	CC0	9.19	8.74	8.54	8.42	14.75	29.27	PASS
			CC1	9.21	8.91	8.39	8.21	14.72		
		256QAM	CC0	9.14	8.66	8.51	8.39	14.71	29.22	PASS
			CC1	9.17	8.89	8.32	8.16	14.68		
	3670.02+3690	QPSK	CC0	9.21	8.73	8.54	8.42	14.76	29.27	PASS
			CC1	9.24	8.88	8.37	8.21	14.72		
		64QAM	CC0	9.19	8.69	8.51	8.37	14.72	29.23	PASS
			CC1	9.21	8.84	8.32	8.16	14.67		
		256QAM	CC0	9.16	8.62	8.49	8.32	14.68	29.19	PASS
			CC1	9.18	8.79	8.27	8.12	14.63		

Note:

1. Correlated Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{G4/20})^2/4] = 11.52\text{dBi}$
2. EIRP (dBm/10MHz) = Total Conducted Output Power (dBm/10MHz) + Directional Gain

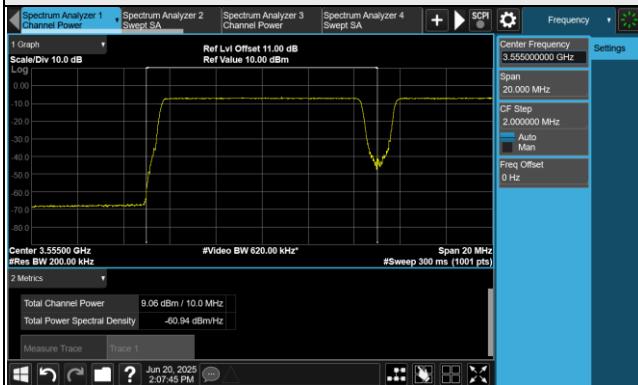
Spectrum Plot of Worst Value

10MHz+20MHz / QPSK

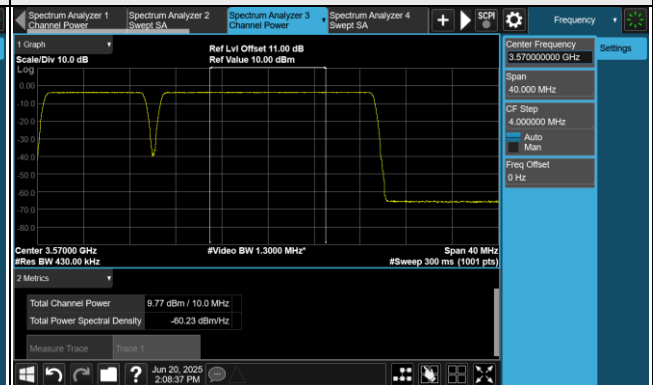
3555 MHz+3570 MHz

Ant.1

3555 MHz

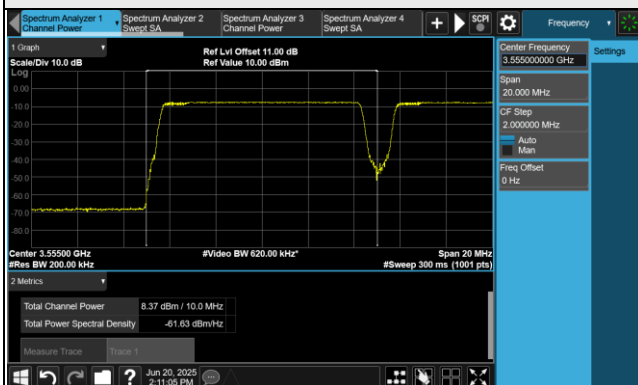


3570 MHz

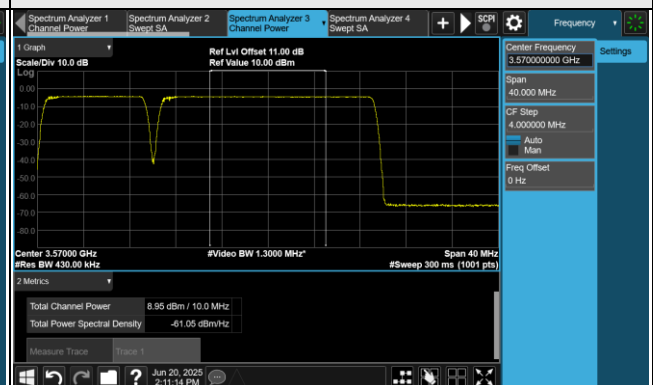


Ant.2

3555 MHz

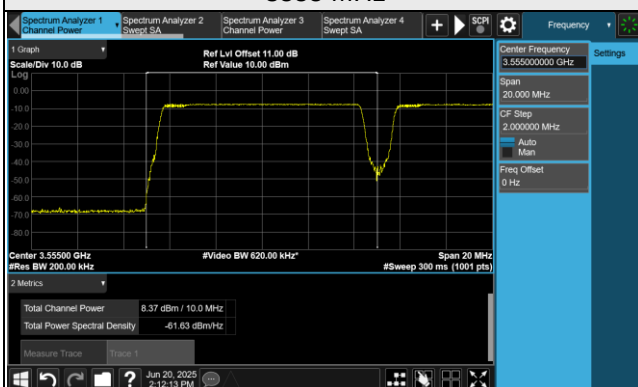


3570 MHz

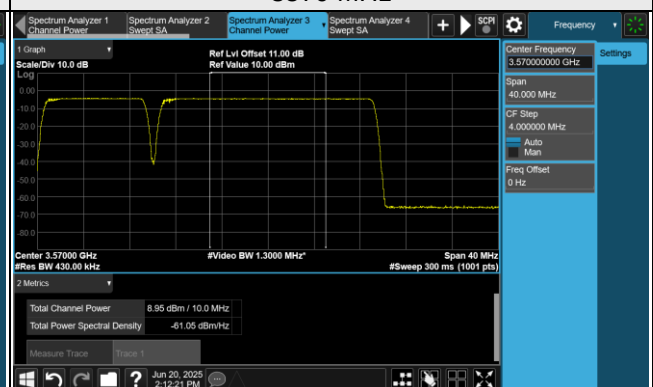


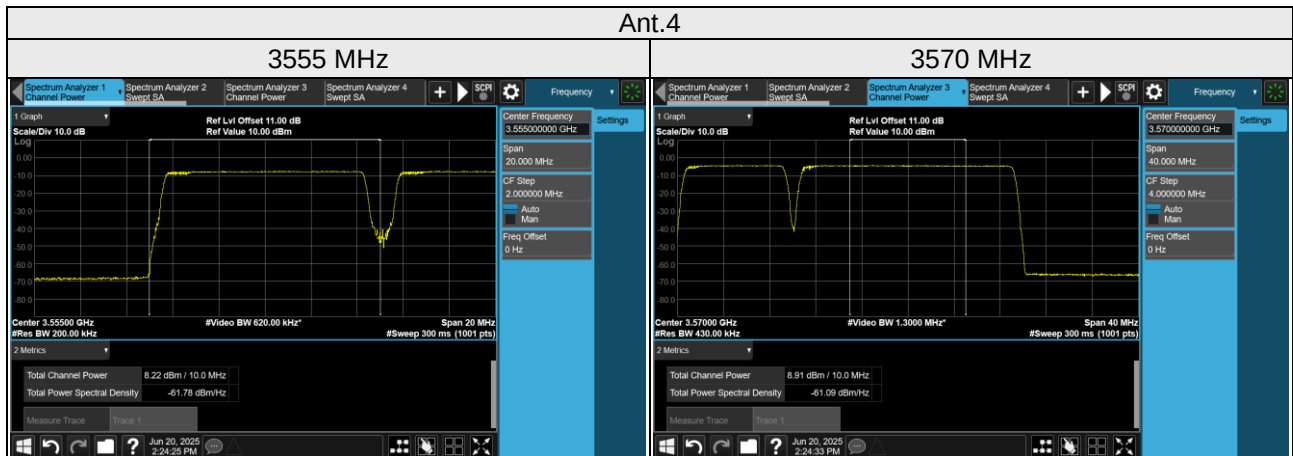
Ant.3

3555 MHz



3570 MHz





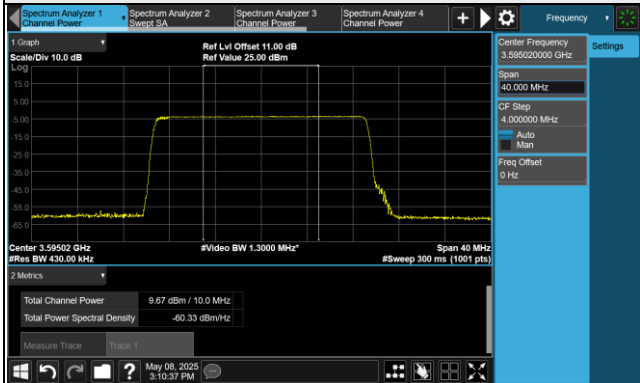
Spectrum Plot of Worst Value

20MHz+20MHz / QPSK

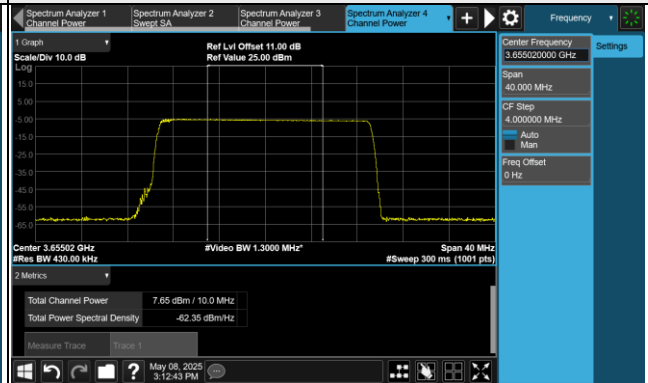
3595.02 MHz+3655.02 MHz

Ant.1

3595.02 MHz

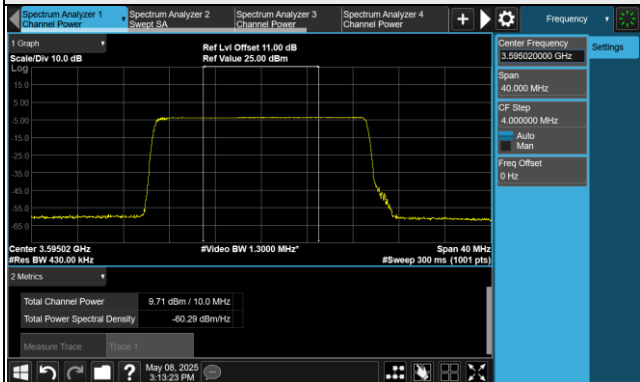


3655.02 MHz

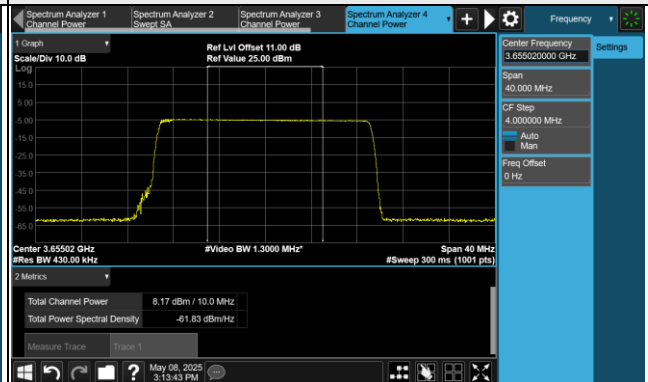


Ant.2

3595.02 MHz

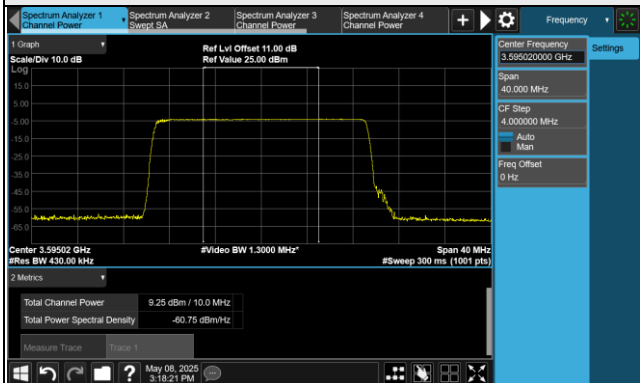


3655.02 MHz

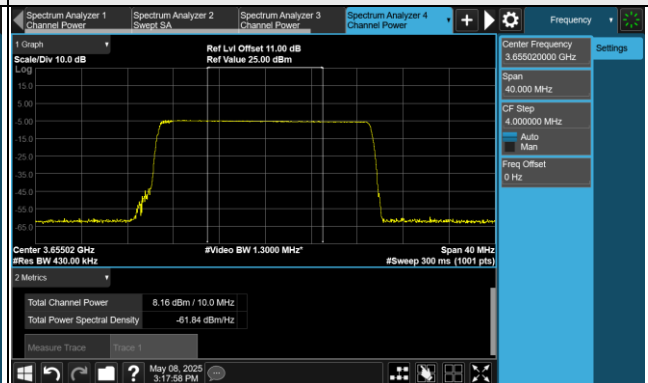


Ant.3

3595.02 MHz

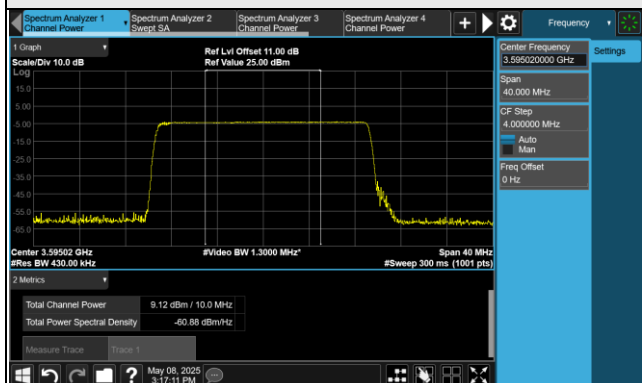


3655.02 MHz

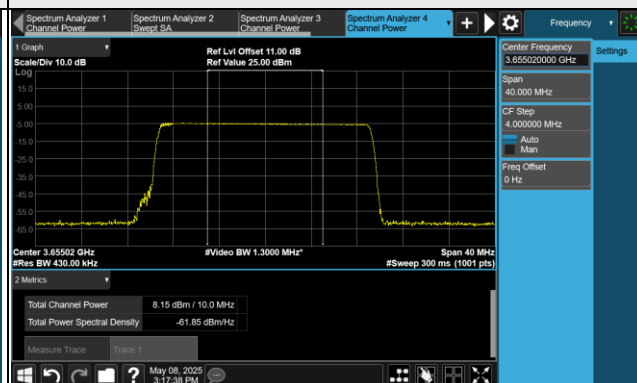


Ant.4

3595.02 MHz



3655.02 MHz



Full Conducted Output Power and Full EIRP Power (dBm/Channel Bandwidth)

Bandwidth	Frequency (MHz)	Modulation	Carrier	Antenna				Total	EIRP (dBm/Channel Bandwidth)	Verdict
				1	2	3	4			
10M+20M	3555+3690	QPSK	CC0	8.41	8.62	8.05	8.26	14.36	30.68	PASS
			CC1	11.36	11.69	11.08	11.43	17.42		
		64QAM	CC0	8.36	8.56	8.01	8.21	14.31	30.62	PASS
			CC1	11.31	11.62	11.03	11.32	17.35		
		256QAM	CC0	8.31	8.51	7.98	8.19	14.27	30.56	PASS
			CC1	11.25	11.55	10.94	11.26	17.28		
	3595.02+3660	QPSK	CC0	9.05	8.96	8.6	8.24	14.74	30.27	PASS
			CC1	10.32	10.61	10.48	10.71	16.55		
		64QAM	CC0	9.01	8.94	8.54	8.21	14.71	30.21	PASS
			CC1	10.25	10.55	10.41	10.62	16.48		
		256QAM	CC0	8.99	8.91	8.49	8.19	14.68	30.17	PASS
			CC1	10.19	10.49	10.36	10.55	16.42		
	3617.52+3637.53	QPSK	CC0	8.51	8.23	8.17	7.97	14.24	30.34	PASS
			CC1	10.85	11.03	10.85	11.01	16.96		
		64QAM	CC0	8.46	8.18	8.14	7.94	14.20	30.28	PASS
			CC1	10.79	10.94	10.76	10.95	16.88		
		256QAM	CC0	8.41	8.14	8.11	7.91	14.17	30.23	PASS
			CC1	10.71	10.91	10.72	10.91	16.83		
	3555+3570	QPSK	CC0	9.06	8.37	8.37	8.22	14.54	30.99	PASS
			CC1	12.4	11.56	11.56	11.49	17.79		
		64QAM	CC0	9.01	8.31	8.31	8.17	14.48	30.94	PASS
			CC1	12.37	11.51	11.49	11.42	17.74		
		256QAM	CC0	8.94	8.27	8.29	8.14	14.44	30.89	PASS
			CC1	12.31	11.47	11.42	11.36	17.68		
	3675+3690	QPSK	CC0	9.01	8.31	8.32	8.19	14.49	30.94	PASS
			CC1	12.36	11.51	11.47	11.42	17.73		
		64QAM	CC0	8.99	8.27	8.29	8.14	14.46	30.89	PASS
			CC1	12.31	11.46	11.42	11.36	17.68		
		256QAM	CC0	8.91	8.21	8.24	8.12	14.40	30.83	PASS
			CC1	12.24	11.42	11.36	11.31	17.62		

Bandwidth	Frequency (MHz)	Modulation	Carrier	Antenna				Total	EIRP (dBm/ Channel Bandwidth)	Verdict
				1	2	3	4			
20M+10M	3560.01+ 3694.98	QPSK	CC0	12.31	12.59	12.17	11.79	18.25	31.06	PASS
			CC1	7.33	7.79	7.62	7.84	13.67		
		64QAM	CC0	12.29	12.54	12.11	11.74	18.20	31.01	PASS
			CC1	7.29	7.69	7.55	7.79	13.60		
		256QAM	CC0	12.21	12.49	12.09	11.69	18.15	30.96	PASS
			CC1	7.21	7.61	7.51	7.75	13.55		
	3590.01+ 3655.02	QPSK	CC0	12.27	12.47	12.01	11.71	18.14	30.97	PASS
			CC1	7.2	7.71	7.57	7.71	13.57		
		64QAM	CC0	12.21	12.42	11.97	11.65	18.09	30.91	PASS
			CC1	7.14	7.65	7.54	7.64	13.52		
		256QAM	CC0	12.19	12.36	11.95	11.61	18.06	30.88	PASS
			CC1	7.11	7.61	7.51	7.59	13.48		
	3612.51+ 3632.52	QPSK	CC0	11.72	11.68	11.45	11.45	17.60	30.67	PASS
			CC1	7.86	8.07	7.66	8.03	13.93		
		64QAM	CC0	11.69	11.61	11.39	11.39	17.54	30.62	PASS
			CC1	7.81	8.01	7.62	7.97	13.88		
		256QAM	CC0	11.62	11.59	11.36	11.32	17.50	30.57	PASS
			CC1	7.76	7.94	7.56	7.92	13.82		
	3560.01+ 3575.01	QPSK	CC0	12.25	11.48	11.48	11.44	17.70	30.87	PASS
			CC1	9.04	8.07	8.07	8.02	14.34		
		64QAM	CC0	12.21	11.42	11.42	11.41	17.65	30.82	PASS
			CC1	9.01	8.02	8.01	7.91	14.28		
		256QAM	CC0	12.19	11.39	11.36	11.37	17.61	30.77	PASS
			CC1	8.87	7.96	7.95	7.88	14.21		
	3679.98+ 3694.98	QPSK	CC0	12.21	11.43	11.41	11.42	17.65	30.82	PASS
			CC1	9.01	8.02	8.03	7.95	14.30		
		64QAM	CC0	12.19	11.38	11.39	11.39	17.62	30.77	PASS
			CC1	8.88	7.94	7.95	7.92	14.21		
		256QAM	CC0	12.16	11.34	11.33	11.31	17.57	30.72	PASS
			CC1	8.83	7.91	7.91	7.85	14.17		

Bandwidth	Frequency (MHz)	Modulation	Carrier	Antenna				Total	EIRP (dBm/Channel Bandwidth)	Verdict
				1	2	3	4			
20M+20M	3560.01+3690	QPSK	CC0	11.74	11.98	11.33	10.92	17.53	31.71	PASS
			CC1	10.96	11.13	10.65	10.29	16.79		
		64QAM	CC0	11.65	11.92	11.29	10.88	17.47	31.65	PASS
			CC1	10.91	11.06	10.61	10.21	16.73		
		256QAM	CC0	11.62	11.88	10.24	10.81	17.21	31.49	PASS
			CC1	10.88	11.04	10.55	10.16	16.69		
	3595.02+3655.02	QPSK	CC0	12.2	12.24	12.23	11.7	18.12	32.00	PASS
			CC1	10.29	10.8	10.79	10.81	16.70		
		64QAM	CC0	12.14	12.18	12.16	11.62	18.05	31.93	PASS
			CC1	10.21	10.76	10.74	10.75	16.64		
		256QAM	CC0	12.11	12.12	12.12	11.55	18.00	31.89	PASS
			CC1	10.17	10.73	10.71	10.69	16.60		
	3612.51+3637.53	QPSK	CC0	12.1	11.44	11.56	11.41	17.66	31.84	PASS
			CC1	11.05	10.79	10.82	11	16.94		
		64QAM	CC0	12.06	11.39	11.51	11.37	17.61	31.79	PASS
			CC1	11.01	10.72	10.76	10.96	16.88		
		256QAM	CC0	12.01	11.35	11.49	11.31	17.57	31.75	PASS
			CC1	10.96	10.67	10.73	10.92	16.84		
	3560.01+3580.02	QPSK	CC0	11.88	11.37	11.18	11.05	17.40	31.92	PASS
			CC1	11.89	11.53	11.05	10.87	17.37		
		64QAM	CC0	11.81	11.31	11.13	11.01	17.35	31.87	PASS
			CC1	11.84	11.49	11.01	10.84	17.33		
		256QAM	CC0	11.76	11.29	11.06	10.97	17.30	31.82	PASS
			CC1	11.81	11.43	10.94	10.81	17.29		
	3670.02+3690	QPSK	CC0	11.71	11.31	11.14	10.95	17.31	31.84	PASS
			CC1	11.84	11.49	10.92	10.84	17.31		
		64QAM	CC0	11.67	11.29	11.07	10.91	17.27	31.79	PASS
			CC1	11.79	11.43	10.87	10.79	17.26		
		256QAM	CC0	11.62	11.21	10.99	10.88	17.20	31.74	PASS
			CC1	11.74	11.39	10.84	10.74	17.22		

Note:

1. Correlated Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{G4/20})^2/4] = 11.52\text{dBi}$
2. EIRP (dBm/Channel Bandwidth) = Total Conducted Output Power (dBm/Channel Bandwidth) + Directional Gain

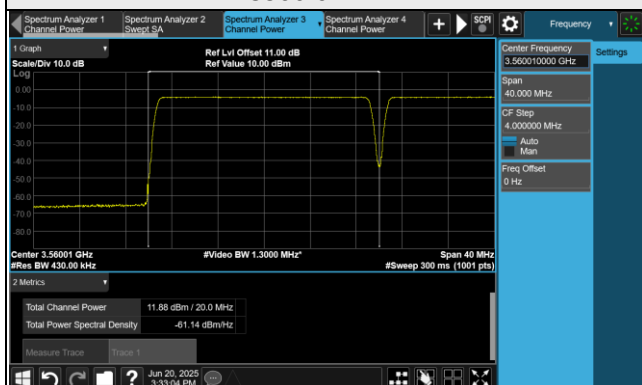
Spectrum Plot of Worst Value

20MHz+20MHz / QPSK

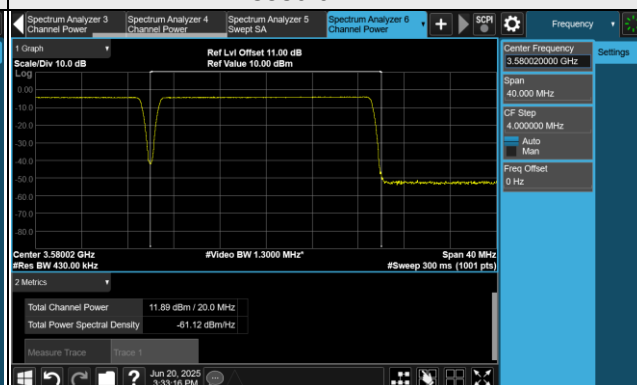
3560.01 MHz+3580.02 MHz

Ant.1

3560.01 MHz

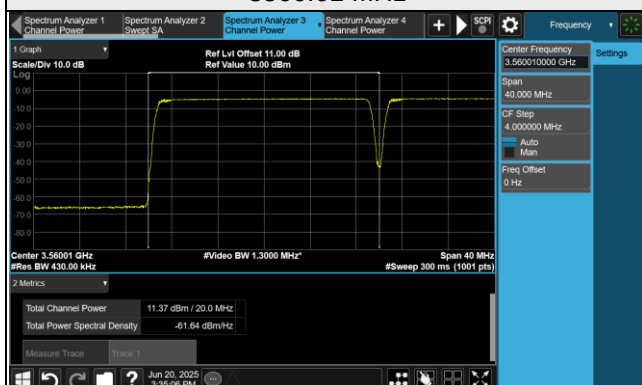


3580.02 MHz

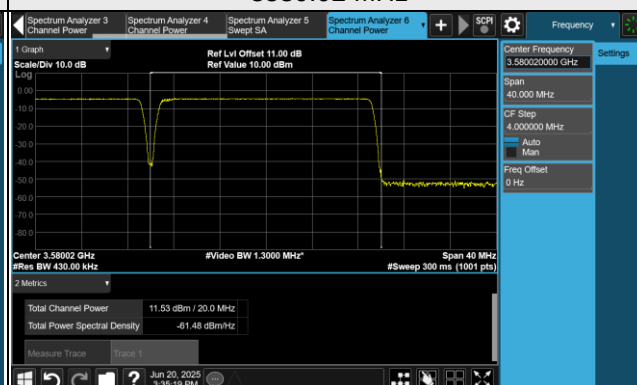


Ant.2

3560.01 MHz

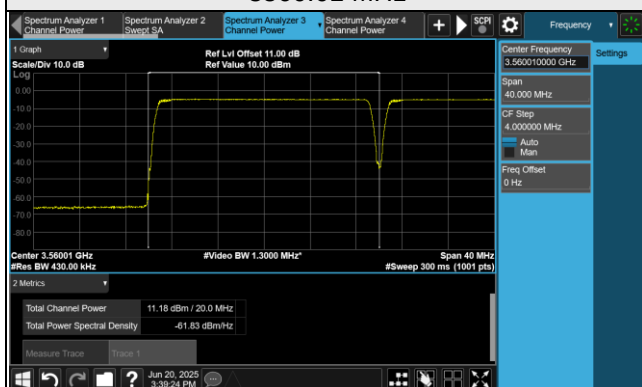


3580.02 MHz

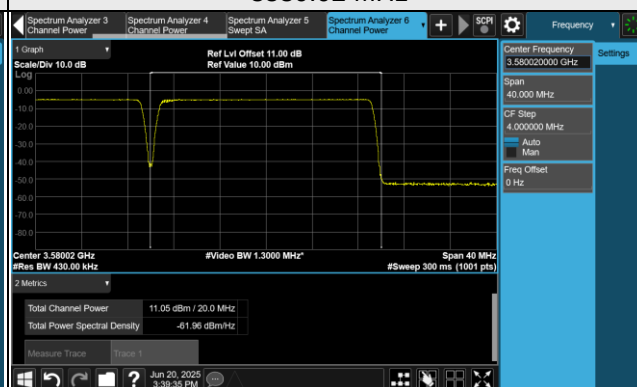


Ant.3

3560.01 MHz

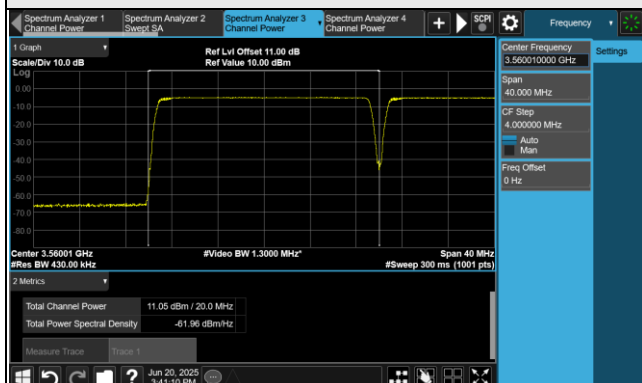


3580.02 MHz

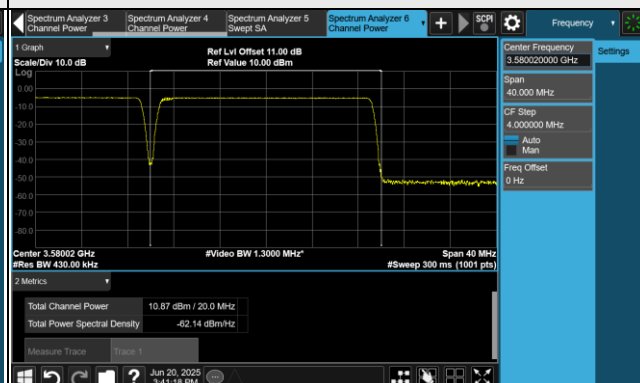


Ant.4

3560.01 MHz



3580.02 MHz



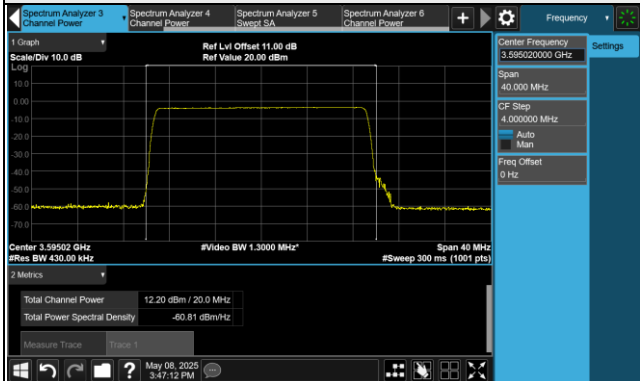
Spectrum Plot of Worst Value

20MHz+20MHz / QPSK

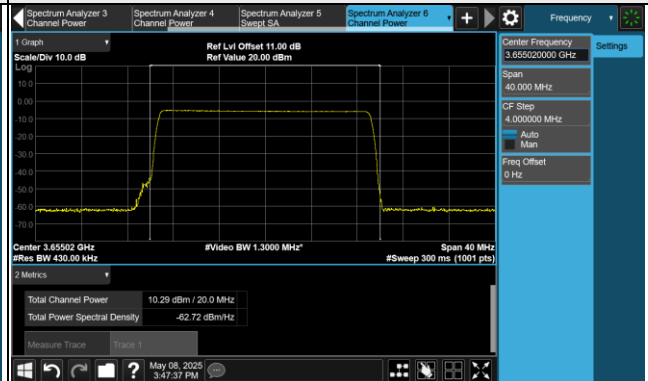
3595.02 MHz+3655.02 MHz

Ant.1

3595.02 MHz

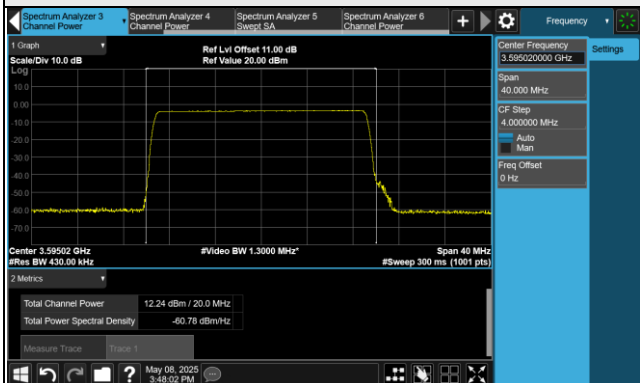


3655.02 MHz

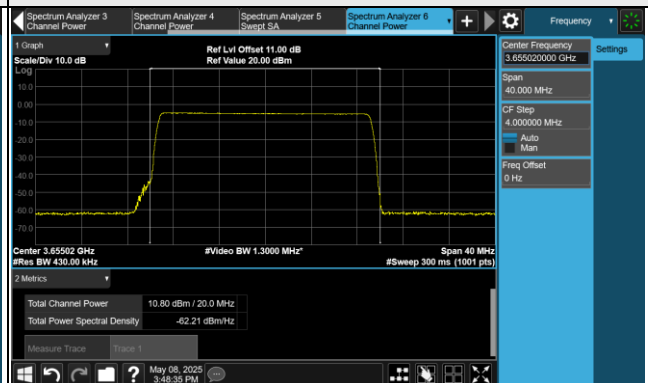


Ant.2

3595.02 MHz

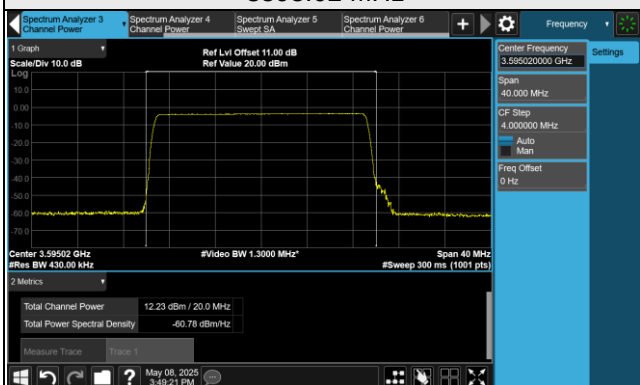


3655.02 MHz

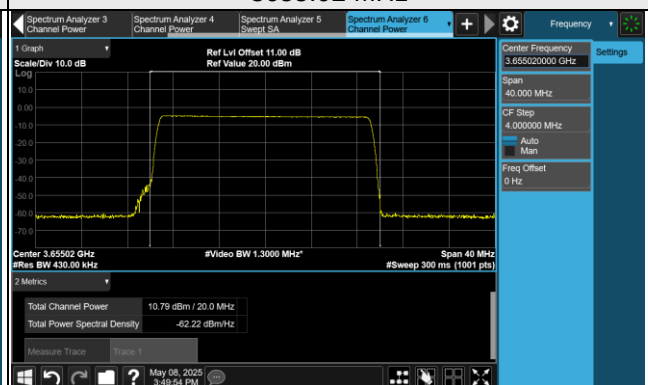


Ant.3

3595.02 MHz

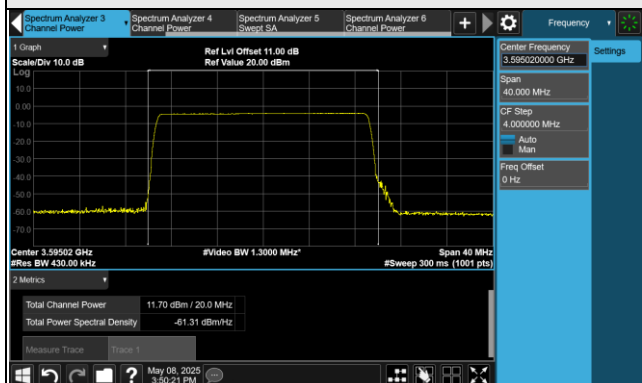


3655.02 MHz

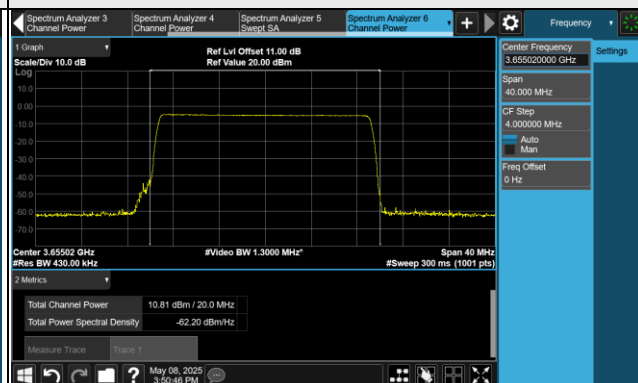


Ant.4

3595.02 MHz



3655.02 MHz



Mode C1

Conducted Output Power and EIRP Power (dBm/10MHz)

Bandwidth	Frequency (MHz)	Modulation	Antenna				Total	EIRP (dBm/10MHz)	Verdict
			1	2	3	4			
10M	3555	QPSK	11.34	11.47	10.92	11.05	17.22	28.44	PASS
		64QAM	11.31	11.43	10.89	11.01	17.19	28.41	PASS
		256QAM	11.27	11.39	10.87	10.29	17.00	28.22	PASS
	3624.99	QPSK	11.53	11.59	11.37	11.46	17.51	28.73	PASS
		64QAM	11.49	11.56	11.31	11.43	17.47	28.69	PASS
		256QAM	11.47	11.52	11.27	11.41	17.44	28.66	PASS
	3694.98	QPSK	11.36	11.35	11.03	11.46	17.32	28.54	PASS
		64QAM	11.32	11.31	11.01	11.43	17.29	28.51	PASS
		256QAM	11.29	11.25	10.99	11.39	17.25	28.47	PASS
20M	3560.01	QPSK	12.22	12.23	11.22	12.1	17.98	29.20	PASS
		64QAM	12.17	12.18	11.15	12.01	17.92	29.14	PASS
		256QAM	12.15	12.14	11.09	11.98	17.88	29.10	PASS
	3624.99	QPSK	11.94	12.01	11.76	11.91	17.93	29.15	PASS
		64QAM	11.91	11.96	11.73	11.89	17.89	29.11	PASS
		256QAM	11.87	11.92	11.69	11.84	17.85	29.07	PASS
	3690	QPSK	11.75	11.8	11.75	11.94	17.83	29.05	PASS
		64QAM	11.71	11.72	11.71	11.92	17.79	29.01	PASS
		256QAM	11.69	11.65	11.67	11.89	17.75	28.97	PASS
40M	3570	QPSK	11.9	12.2	11.83	11.78	17.95	29.17	PASS
		64QAM	11.84	12.17	11.81	11.74	17.91	29.13	PASS
		256QAM	11.81	12.12	11.79	11.69	17.88	29.10	PASS
	3624.99	QPSK	11.82	11.93	11.83	11.85	17.88	29.10	PASS
		64QAM	11.75	11.91	11.81	11.82	17.84	29.06	PASS
		256QAM	11.72	11.85	11.76	11.75	17.79	29.01	PASS
	3679.98	QPSK	11.81	11.78	11.9	12.16	17.94	29.16	PASS
		64QAM	11.78	11.75	11.88	12.14	17.91	29.13	PASS
		256QAM	11.75	11.71	11.85	12.13	17.88	29.10	PASS

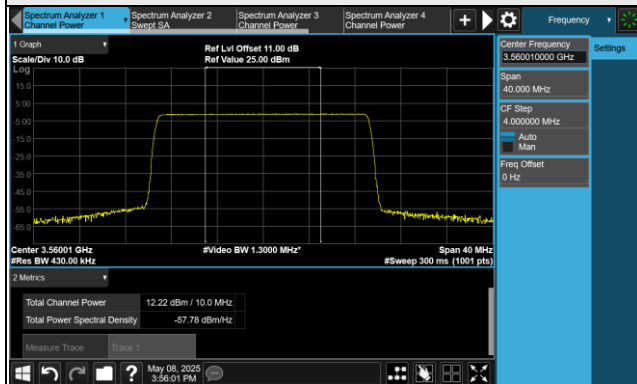
Note:

1. Correlated Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{G4/20})^2/4] = 11.22\text{dBi}$
2. EIRP (dBm/10MHz) = Total Conducted Output Power (dBm/10MHz) + Directional Gain

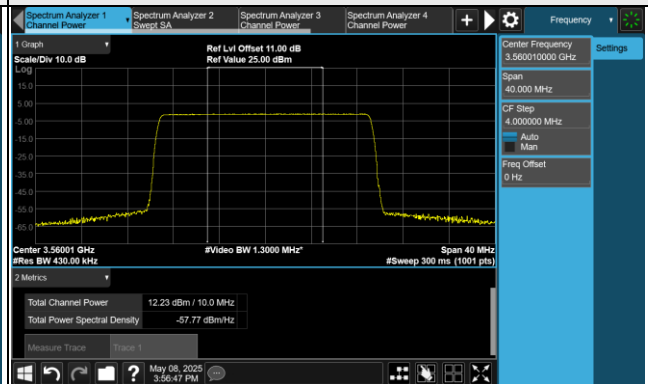
Spectrum Plot of Worst Value

20MHz / QPSK

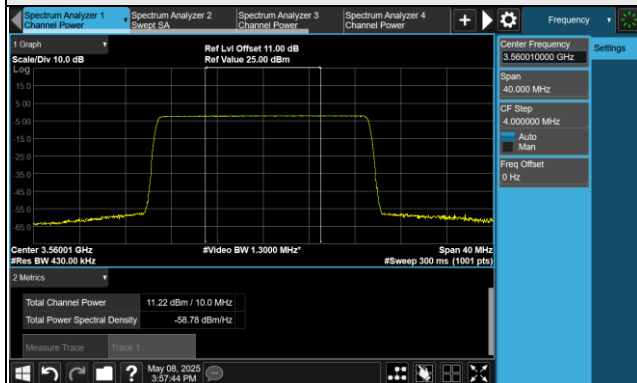
Ant.1



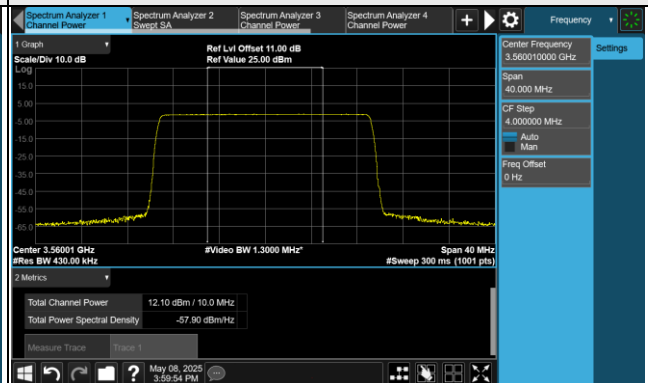
Ant.2



Ant.3



Ant.4



Full Conducted Output Power and Full EIRP Power (dBm/Channel Bandwidth)

Bandwidth	Frequency (MHz)	Modulation	Antenna				Total	EIRP (dBm/Channel Bandwidth)	Verdict
			1	2	3	4			
10M	3555	QPSK	11.34	11.47	10.92	11.05	17.22	28.44	PASS
		64QAM	11.31	11.43	10.89	11.01	17.19	28.41	PASS
		256QAM	11.27	11.39	10.87	10.29	17.00	28.22	PASS
	3624.99	QPSK	11.53	11.59	11.37	11.46	17.51	28.73	PASS
		64QAM	11.49	11.56	11.31	11.43	17.47	28.69	PASS
		256QAM	11.47	11.52	11.27	11.41	17.44	28.66	PASS
	3694.98	QPSK	11.36	11.35	11.03	11.46	17.32	28.54	PASS
		64QAM	11.32	11.31	11.01	11.43	17.29	28.51	PASS
		256QAM	11.29	11.25	10.99	11.39	17.25	28.47	PASS
20M	3560.01	QPSK	14.82	15.29	14.61	14.70	20.88	32.10	PASS
		64QAM	14.79	15.24	14.59	14.67	20.85	32.07	PASS
		256QAM	14.75	15.21	14.51	14.62	20.80	32.02	PASS
	3624.99	QPSK	14.58	14.62	14.38	14.50	20.54	31.76	PASS
		64QAM	14.51	14.59	14.32	14.46	20.49	31.71	PASS
		256QAM	14.49	14.54	14.29	14.41	20.45	31.67	PASS
	3690	QPSK	14.25	14.34	14.25	14.41	20.33	31.55	PASS
		64QAM	14.21	14.32	14.21	14.36	20.30	31.52	PASS
		256QAM	14.17	14.29	14.17	14.32	20.26	31.48	PASS
40M	3570	QPSK	17.59	17.82	17.55	17.44	23.62	34.84	PASS
		64QAM	17.52	17.80	17.51	17.42	23.59	34.81	PASS
		256QAM	17.47	17.74	17.49	17.36	23.54	34.76	PASS
	3624.99	QPSK	17.52	17.64	17.50	17.58	23.58	34.80	PASS
		64QAM	17.49	17.55	17.44	17.54	23.53	34.75	PASS
		256QAM	17.42	17.51	17.42	17.51	23.49	34.71	PASS
	3679.98	QPSK	17.62	17.62	17.62	17.68	23.66	34.88	PASS
		64QAM	17.54	17.55	17.54	17.62	23.58	34.80	PASS
		256QAM	17.51	17.49	17.51	17.57	23.54	34.76	PASS

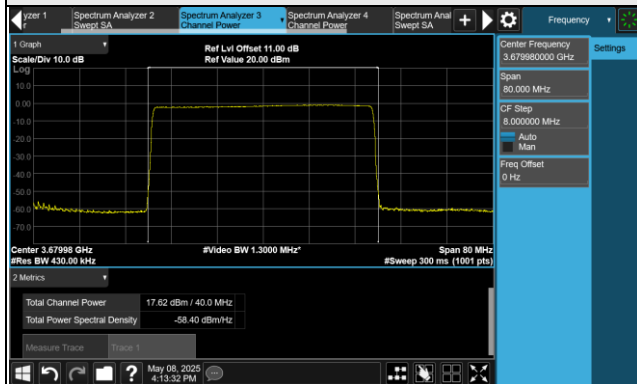
Note:

1. Correlated Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{G4/20})^2/4] = 11.22\text{dBi}$
2. EIRP (dBm/Channel Bandwidth) = Total Conducted Output Power (dBm/Channel Bandwidth) + Directional Gain

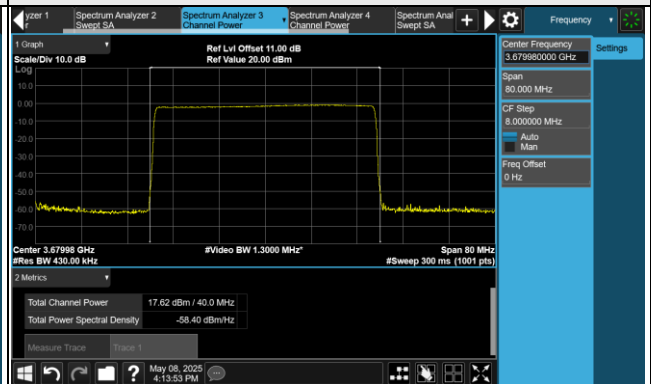
Spectrum Plot of Worst Value

40MHz / QPSK

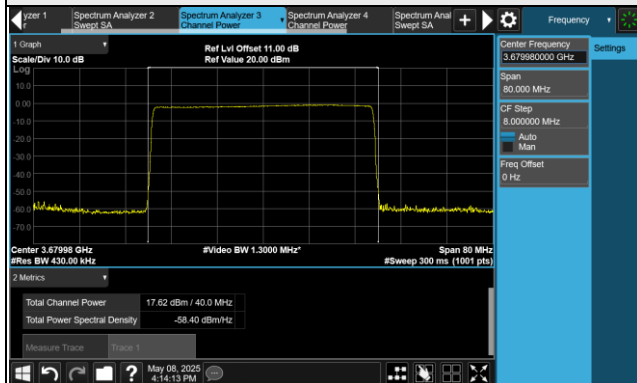
Ant.1



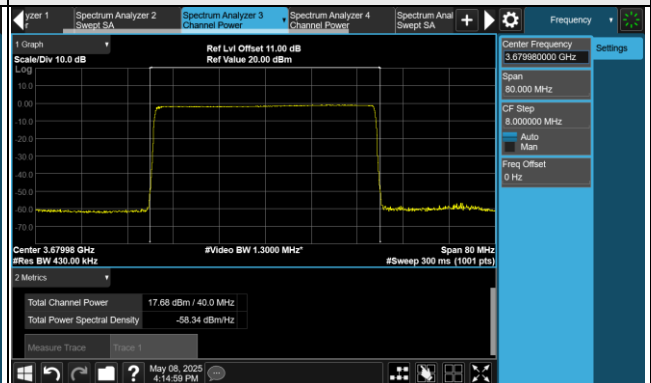
Ant.2



Ant.3



Ant.4



Mode C2 / C3

Conducted Output Power and EIRP Power (dBm/10MHz)

Bandwidth	Frequency (MHz)	Modulation	Carrier	Antenna				Total	EIRP (dBm/10MHz)	Verdict
				1	2	3	4			
10M+20M	3555+3690	QPSK	CC0	8.89	9.09	8.42	8.71	14.81	29.09	PASS
			CC1	8.91	9.14	8.57	8.93	14.91		
		64QAM	CC0	8.84	9.01	8.39	8.67	14.75	29.05	PASS
			CC1	8.89	9.12	8.54	8.88	14.88		
		256QAM	CC0	8.81	8.99	8.32	8.62	14.71	29.00	PASS
			CC1	8.82	9.06	8.51	8.81	14.82		
	3595.02+3660	QPSK	CC0	9.52	9.43	9.06	8.71	15.21	29.05	PASS
			CC1	8.11	8.44	8.35	8.57	14.39		
		64QAM	CC0	8.49	9.41	9.03	8.67	14.94	28.89	PASS
			CC1	8.09	8.39	8.32	8.54	14.36		
		256QAM	CC0	8.42	9.37	9.01	8.62	14.89	28.84	PASS
			CC1	8.03	8.32	8.29	8.51	14.31		
	3617.52+3637.53	QPSK	CC0	8.97	8.71	8.62	8.42	14.71	29.02	PASS
			CC1	8.72	8.94	8.78	8.96	14.87		
		64QAM	CC0	8.91	8.67	8.59	8.39	14.66	28.98	PASS
			CC1	8.69	8.91	8.72	8.91	14.83		
		256QAM	CC0	8.88	8.62	8.54	8.32	14.62	28.93	PASS
			CC1	8.62	8.88	8.69	8.88	14.79		
	3555+3570	QPSK	CC0	8.94	7.96	8.16	8.07	14.32	28.93	PASS
			CC1	9.64	8.98	8.67	8.77	15.05		
		64QAM	CC0	8.91	7.92	8.11	8.03	14.28	28.89	PASS
			CC1	9.6	8.94	8.59	8.72	15.00		
		256QAM	CC0	8.85	7.87	8.09	7.94	14.23	28.83	PASS
			CC1	9.51	8.92	8.51	8.67	14.94		
	3675+3690	QPSK	CC0	8.9	7.92	8.11	8.03	14.28	28.88	PASS
			CC1	9.55	8.93	8.62	8.69	14.98		
		64QAM	CC0	8.85	7.88	8.09	8.01	14.25	28.83	PASS
			CC1	9.51	8.87	8.57	8.62	14.93		
		256QAM	CC0	8.82	7.84	8.04	7.93	14.20	28.78	PASS
			CC1	9.43	8.82	8.52	8.55	14.87		

Bandwidth	Frequency (MHz)	Modulation	Carrier	Antenna				Total	EIRP (dBm/10MHz)	Verdict
				1	2	3	4			
20M+10M	3560.01+3694.98	QPSK	CC0	9.62	9.93	9.55	9.23	15.61	28.98	PASS
			CC1	7.33	7.79	7.62	7.84	13.67		
		64QAM	CC0	9.59	9.89	9.51	9.21	15.58	28.94	PASS
			CC1	7.31	7.74	7.59	7.79	13.63		
		256QAM	CC0	9.54	9.84	9.49	9.17	15.54	28.90	PASS
			CC1	7.27	7.71	7.54	7.75	13.59		
	3590.01+3655.02	QPSK	CC0	9.56	9.87	9.41	9.13	15.52	28.89	PASS
			CC1	7.2	7.71	7.57	7.71	13.57		
		64QAM	CC0	9.51	9.81	9.33	9.06	15.46	28.83	PASS
			CC1	7.14	7.69	7.54	7.69	13.54		
		256QAM	CC0	9.49	9.73	9.31	9.03	15.42	28.79	PASS
			CC1	7.12	7.62	7.51	7.62	13.49		
	3612.51+3632.52	QPSK	CC0	9.62	9.61	9.17	9.37	15.47	29.20	PASS
			CC1	8.33	8.54	8.12	8.51	14.40		
		64QAM	CC0	9.59	9.59	9.13	9.34	15.44	29.16	PASS
			CC1	8.27	8.51	8.09	8.49	14.36		
		256QAM	CC0	9.54	9.53	9.11	9.29	15.39	29.12	PASS
			CC1	8.21	8.49	8.04	8.41	14.31		
	3560.01+3575.01	QPSK	CC0	9.66	8.9	9.01	8.64	15.09	28.99	PASS
			CC1	9.08	8.4	8.16	7.79	14.40		
		64QAM	CC0	9.59	8.85	8.94	8.61	15.03	28.94	PASS
			CC1	9.04	8.36	8.13	7.74	14.36		
		256QAM	CC0	9.51	8.81	8.89	8.59	14.98	28.90	PASS
			CC1	8.99	8.32	8.09	7.71	14.32		
	3679.98+3694.98	QPSK	CC0	9.61	8.84	8.87	8.57	15.01	28.92	PASS
			CC1	8.98	8.31	8.14	7.72	14.33		
		64QAM	CC0	9.55	8.81	8.83	8.54	14.97	28.87	PASS
			CC1	8.94	8.29	8.07	7.69	14.29		
		256QAM	CC0	9.51	8.76	8.79	8.51	14.93	28.83	PASS
			CC1	8.89	8.24	8.03	7.62	14.24		

Bandwidth	Frequency (MHz)	Modulation	Carrier	Antenna				Total	EIRP (dBm/10MHz)	Verdict
				1	2	3	4			
20M+20M	3560.01+3690	QPSK	CC0	9.62	9.91	9.26	8.87	15.45	29.38	PASS
			CC1	8.99	9.13	8.72	8.31	14.82		
		64QAM	CC0	9.59	9.89	9.21	8.84	15.42	29.33	PASS
			CC1	8.87	9.11	8.65	8.29	14.76		
		256QAM	CC0	9.54	9.84	9.16	8.79	15.37	29.28	PASS
			CC1	8.84	9.06	8.61	8.21	14.71		
	3595.02+3655.02	QPSK	CC0	9.67	9.73	9.42	9.04	15.49	29.06	PASS
			CC1	7.69	8.13	8.03	8.18	14.03		
		64QAM	CC0	9.61	9.69	9.37	9.02	15.45	29.01	PASS
			CC1	7.62	8.06	8.01	8.14	13.98		
		256QAM	CC0	9.59	9.64	9.26	9.01	15.40	28.96	PASS
			CC1	7.55	8.01	7.99	8.11	13.94		
	3612.51+3637.53	QPSK	CC0	10.3	9.34	9.33	9.34	15.62	29.43	PASS
			CC1	8.71	8.72	8.69	8.73	14.73		
		64QAM	CC0	9.98	9.32	9.46	9.31	15.55	29.42	PASS
			CC1	8.84	8.69	8.72	8.88	14.80		
		256QAM	CC0	9.94	9.26	9.41	9.29	15.50	29.38	PASS
			CC1	8.79	8.64	8.68	8.84	14.76		
	3560.01+3580.02	QPSK	CC0	9.72	9.03	9.04	9.03	15.24	29.47	PASS
			CC1	9.73	9.13	8.81	9.13	15.23		
		64QAM	CC0	9.69	9.01	9.01	8.93	15.19	29.41	PASS
			CC1	9.62	9.05	8.79	9.09	15.17		
		256QAM	CC0	9.64	8.94	8.94	8.87	15.13	29.35	PASS
			CC1	9.57	9.01	8.72	9.01	15.11		
	3670.02+3690	QPSK	CC0	9.69	8.94	8.91	8.99	15.17	29.39	PASS
			CC1	9.61	9.03	8.76	9.06	15.15		
		64QAM	CC0	9.62	8.89	8.86	8.94	15.11	29.33	PASS
			CC1	9.57	8.96	8.72	9.01	15.10		
		256QAM	CC0	9.55	8.84	8.81	8.9	15.06	29.28	PASS
			CC1	9.51	8.91	8.69	8.95	15.05		

Note:

1. Correlated Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{G4/20})^2/4] = 11.22\text{dBi}$
2. EIRP (dBm/10MHz) = Total Conducted Output Power (dBm/10MHz) + Directional Gain