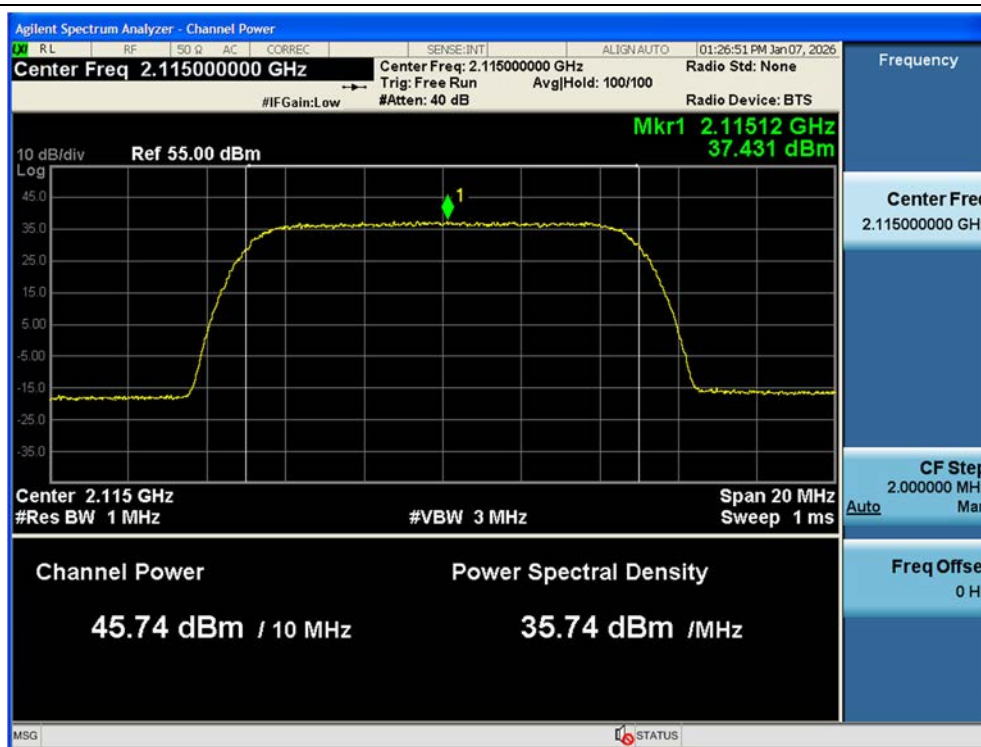


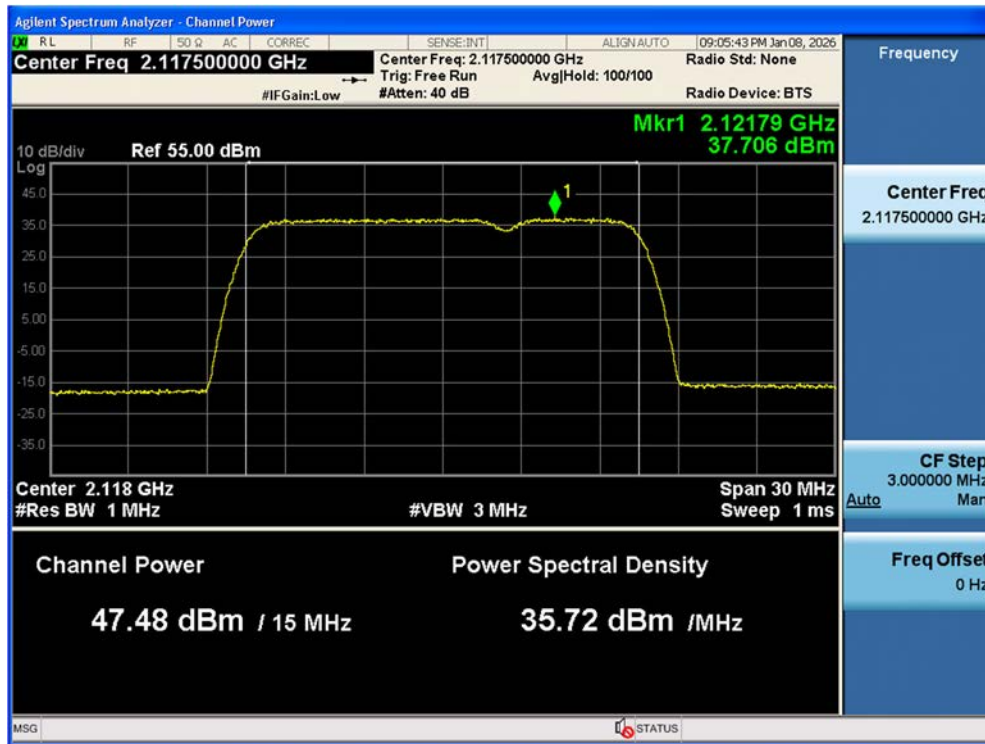
Antenna 2 / (4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C) / 16QAM / Low / Non-Contiguous



Antenna 2 / (4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C) / 16QAM / High / Non-Contiguous



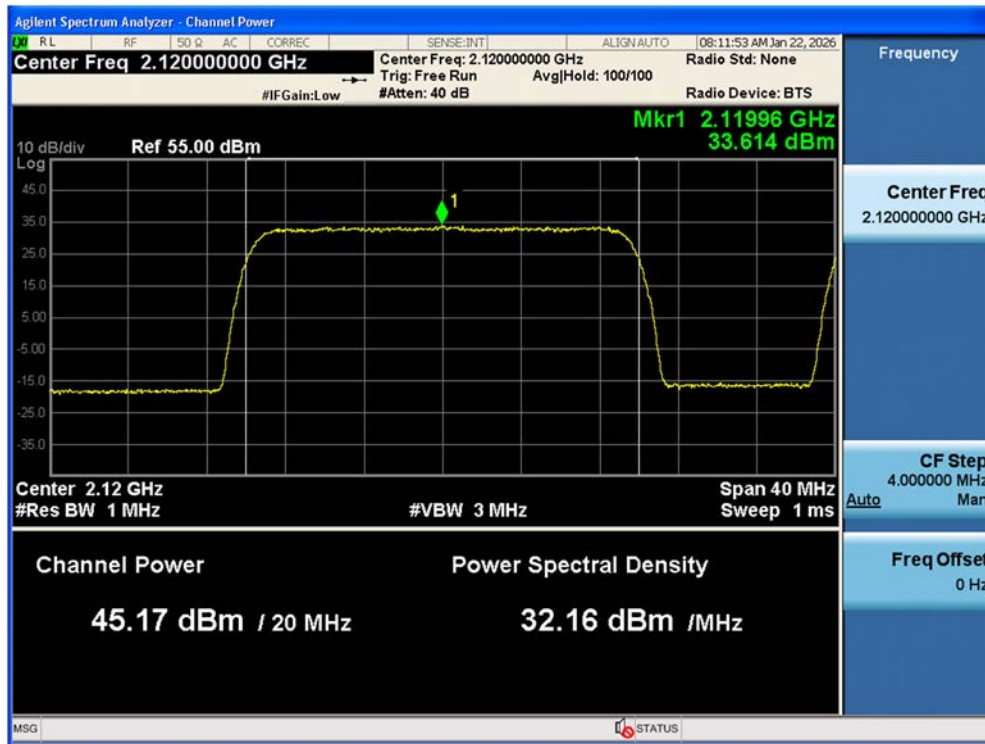
Antenna 2 / (4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C) / QPSK / Low / Non-Contiguous



Antenna 2 / (4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C) / QPSK / High / Non-Contiguous



Antenna 2 / (4 Port) B66 DSS 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [4 Carrier] (1C+3C) / 16QAM / Low / Non-Contiguous



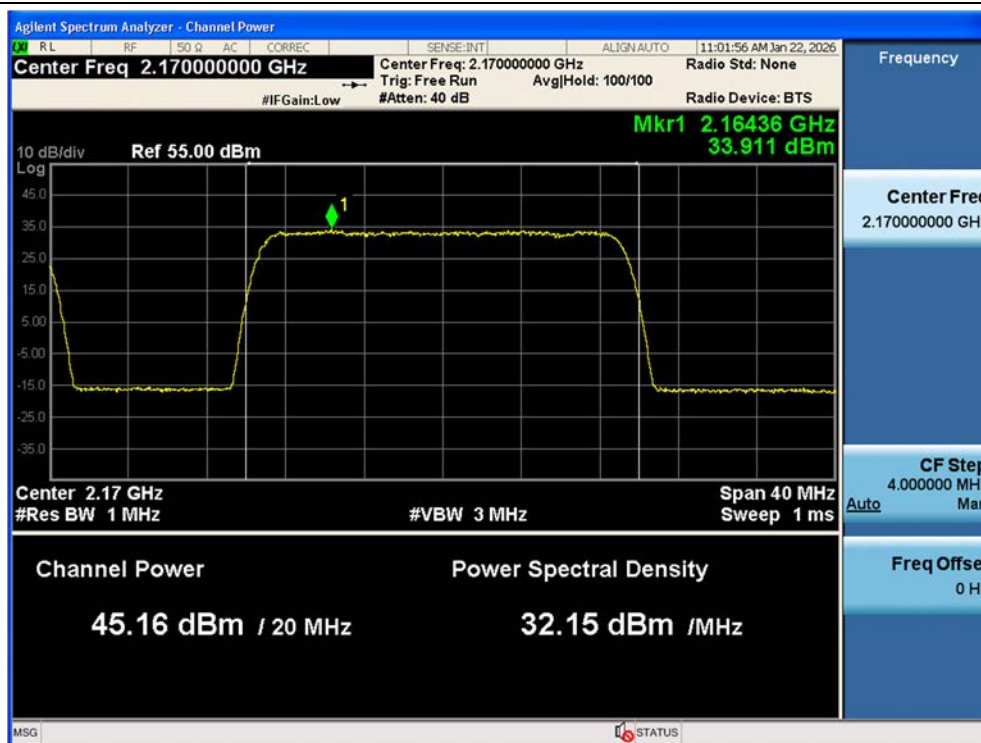
Antenna 2 / (4 Port) B66 DSS 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [4 Carrier] (1C+3C) / 16QAM / High / Non-Contiguous



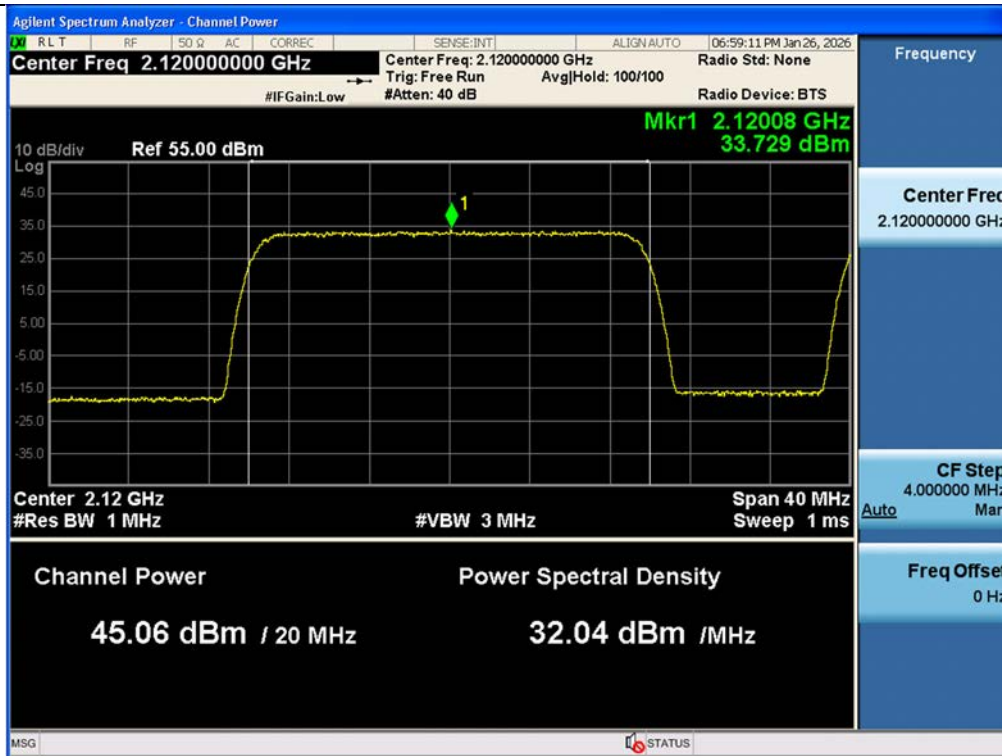
Antenna 2 / (4 Port) B66 DSS 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [4 Carrier] (3C+1C) / 16QAM / Low / Non-Contiguous



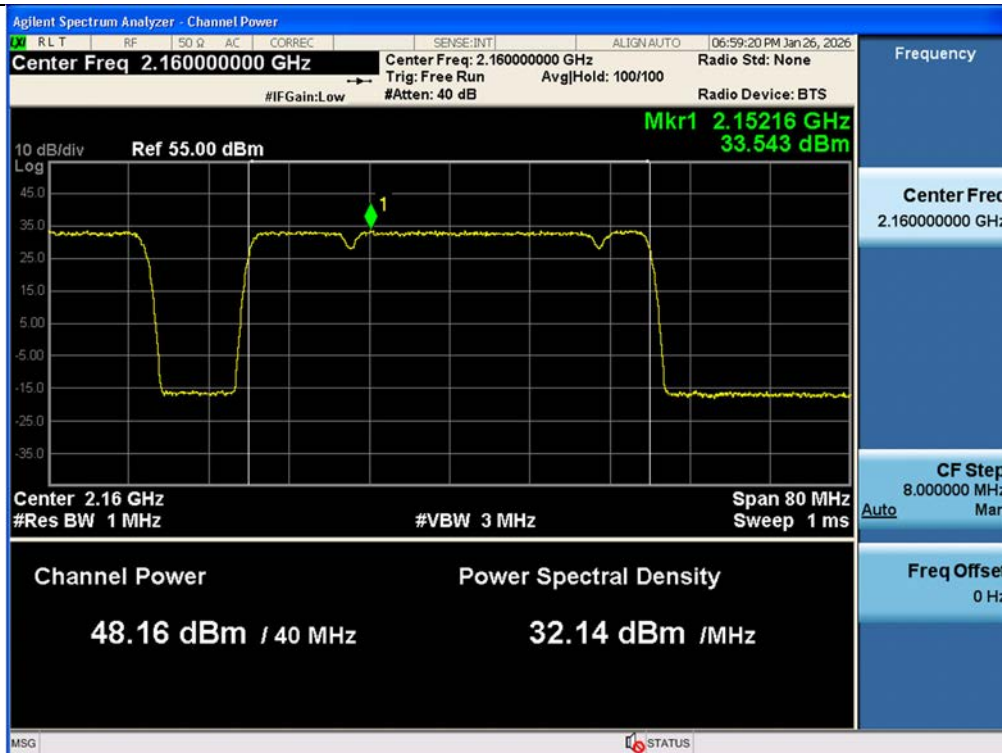
Antenna 2 / (4 Port) B66 DSS 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [4 Carrier] (3C+1C) / 16QAM / High / Non-Contiguous



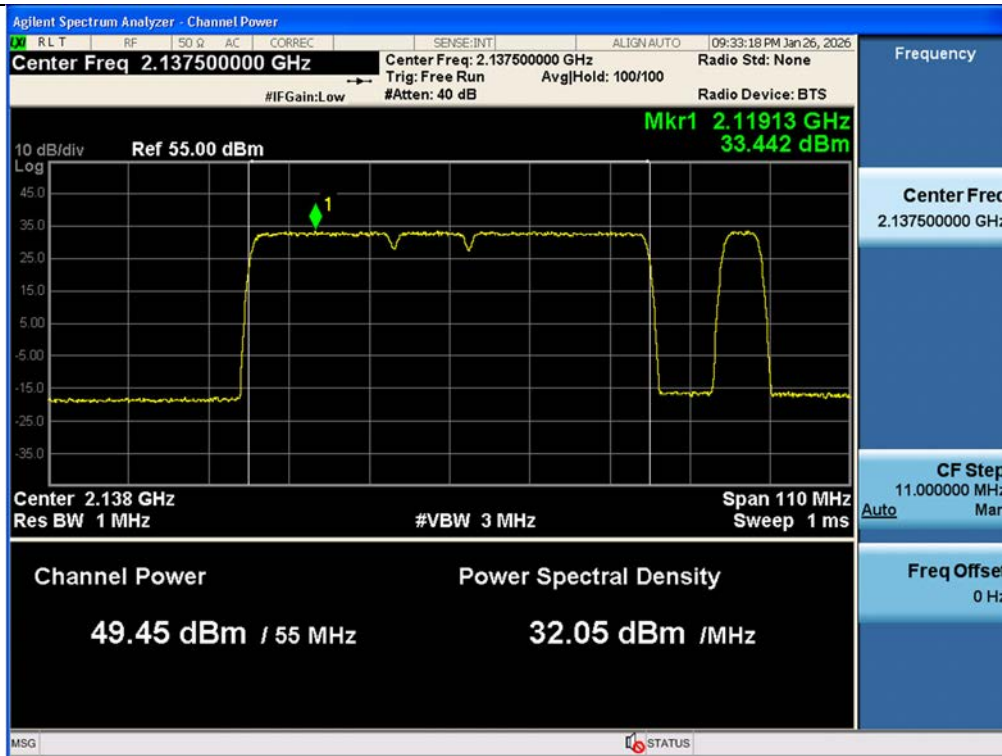
Antenna 2 / (4 Port) B66 DSS 20 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (1C+3C) / 16QAM /
Low / Non-Contiguous



Antenna 2 / (4 Port) B66 DSS 20 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (1C+3C) / 16QAM /
High / Non-Contiguous



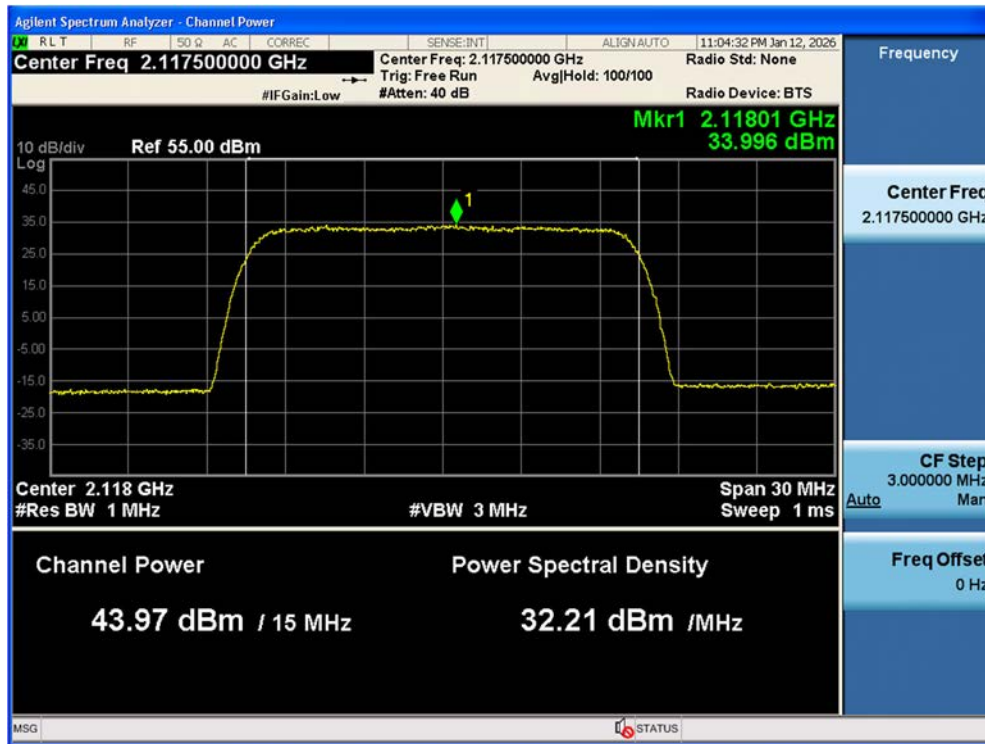
Antenna 2 / (4 Port) B66 DSS 20 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (3C+1C) / QPSK / Low / Non-Contiguous



Antenna 2 / (4 Port) B66 DSS 20 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (3C+1C) / QPSK / High / Non-Contiguous



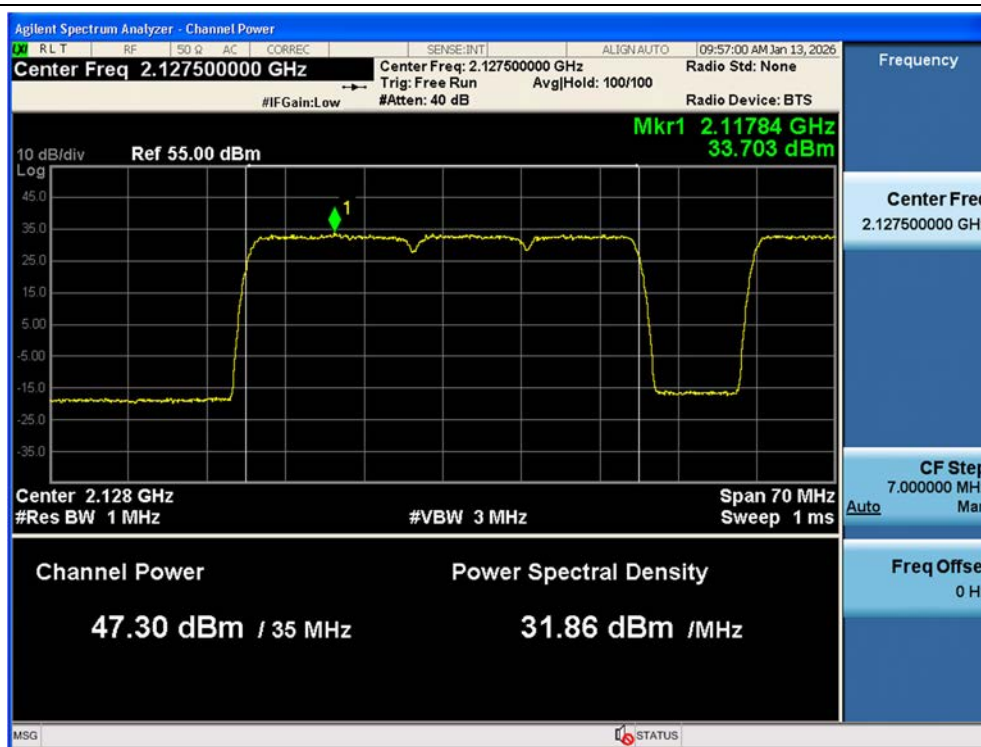
Antenna 2 / (4 Port) B66 DSS 15 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [4 Carrier] (1C+3C) / 16QAM
/ Low / Non-Contiguous



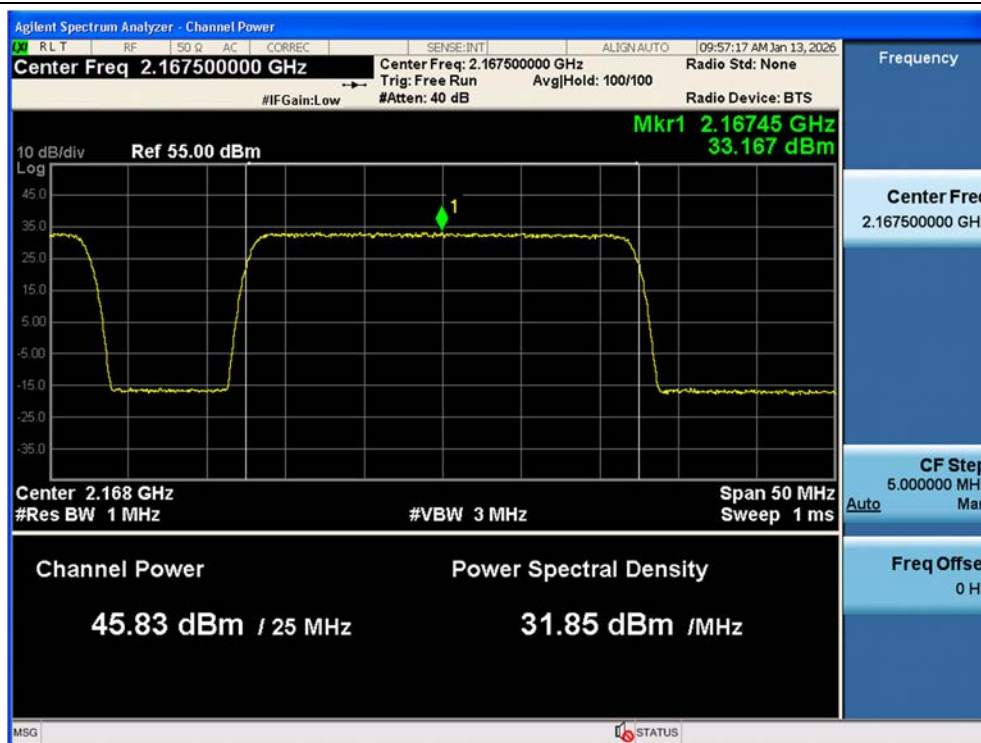
Antenna 2 / (4 Port) B66 DSS 15 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [4 Carrier] (1C+3C) / 16QAM
/ High / Non-Contiguous



Antenna 1 / (4 Port) B66 DSS 15 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [4 Carrier] (3C+1C) / 16QAM
/ Low / Non-Contiguous



Antenna 1 / (4 Port) B66 DSS 15 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [4 Carrier] (3C+1C) / 16QAM
/ High / Non-Contiguous



5.2. PAPR

Test Requirements:

§ 24.232 Power and antenna height limits.

- (d) Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of § 24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

§ 27.50 Power limits and duty cycle.

- (d) The following power and antenna height requirements apply to stations transmitting in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz and 2180-2200 MHz bands:
 - (5) Equipment employed must be authorized in accordance with the provisions of § 24.51. Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (d)(6) of this section. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

Test Procedures:

The measurement is performed in accordance with Section 5.2.3.4 of ANSI C63.26.

The following guidelines are offered for performing a CCDF measurement.

- a) Set resolution/measurement bandwidth $\geq$ OBW or specified reference bandwidth.
- b) Set the number of counts to a value that stabilizes the measured CCDF curve.
- c) Set the measurement interval as follows:
 - 1) For continuous transmissions, set to the greater of $[10 \times (\text{number of points in sweep}) \times (\text{transmission symbol period})]$ or 1 ms.
 - 2) For burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize. Set the measurement interval to a time that is less than or equal to the burst duration.
 - 3) If there are several carriers in a single antenna port, the peak power shall be determined for each individual carrier (by disabling the other carriers while measuring the required carrier) and the total peak power calculated from the sum of the individual carrier peak powers.
- d) Record the maximum PAPR level associated with a probability of 0.1%.
- e) The peak power level is calculated from the sum of the PAPR value from step d) to the measured average power.

Notes:

- 1. Although the RBW setting was limited by the available bandwidth steps of the spectrum analyzer, there is no procedural issue since the test procedure specifies that the RBW shall be set equal to or greater than the OBW.
- 2. The results of the PAPR tests show a similar trend across all ports; therefore, only the worst-case plots are attached.

Test Results:

Tabular Data of RF PAPR

(4 Port) B25 DSS 10 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	1 935.00	7.22
		Middle	1 962.50	7.11
		High	1 990.00	7.14
	16QAM	Low	1 935.00	7.17
		Middle	1 962.50	7.16
		High	1 990.00	7.24
	64QAM	Low	1 935.00	7.22
		Middle	1 962.50	7.17
		High	1 990.00	7.15
	256QAM	Low	1 935.00	7.21
		Middle	1 962.50	7.16
		High	1 990.00	7.16
1	QPSK	Low	1 935.00	7.21
		Middle	1 962.50	7.10
		High	1 990.00	7.15
	16QAM	Low	1 935.00	7.14
		Middle	1 962.50	7.17
		High	1 990.00	7.24
	64QAM	Low	1 935.00	7.21
		Middle	1 962.50	7.15
		High	1 990.00	7.15
	256QAM	Low	1 935.00	7.22
		Middle	1 962.50	7.16
		High	1 990.00	7.17
2	QPSK	Low	1 935.00	7.22
		Middle	1 962.50	7.14
		High	1 990.00	7.14
	16QAM	Low	1 935.00	7.18
		Middle	1 962.50	7.15
		High	1 990.00	7.13
	64QAM	Low	1 935.00	7.21
		Middle	1 962.50	7.13
		High	1 990.00	7.14
	256QAM	Low	1 935.00	7.22
		Middle	1 962.50	7.16
		High	1 990.00	7.15
3	QPSK	Low	1 935.00	7.22
		Middle	1 962.50	7.12
		High	1 990.00	7.17
	16QAM	Low	1 935.00	7.19
		Middle	1 962.50	7.15
		High	1 990.00	7.16
	64QAM	Low	1 935.00	7.21
		Middle	1 962.50	7.16
		High	1 990.00	7.15
	256QAM	Low	1 935.00	7.23
		Middle	1 962.50	7.16
		High	1 990.00	7.17

(4 Port) B25 DSS 15 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	1 937.50	7.21
		Middle	1 962.50	7.14
		High	1 987.50	7.15
	16QAM	Low	1 937.50	7.21
		Middle	1 962.50	7.11
		High	1 987.50	7.06
	64QAM	Low	1 937.50	7.34
		Middle	1 962.50	7.16
		High	1 987.50	7.10
	256QAM	Low	1 937.50	7.20
		Middle	1 962.50	7.16
		High	1 987.50	7.03
1	QPSK	Low	1 937.50	7.23
		Middle	1 962.50	7.11
		High	1 987.50	7.15
	16QAM	Low	1 937.50	7.17
		Middle	1 962.50	7.13
		High	1 987.50	7.05
	64QAM	Low	1 937.50	7.29
		Middle	1 962.50	7.17
		High	1 987.50	7.09
	256QAM	Low	1 937.50	7.25
		Middle	1 962.50	7.14
		High	1 987.50	7.10
2	QPSK	Low	1 937.50	7.24
		Middle	1 962.50	7.03
		High	1 987.50	7.14
	16QAM	Low	1 937.50	7.23
		Middle	1 962.50	7.12
		High	1 987.50	7.06
	64QAM	Low	1 937.50	7.31
		Middle	1 962.50	7.12
		High	1 987.50	7.06
	256QAM	Low	1 937.50	7.23
		Middle	1 962.50	7.13
		High	1 987.50	7.11
3	QPSK	Low	1 937.50	7.23
		Middle	1 962.50	7.08
		High	1 987.50	7.16
	16QAM	Low	1 937.50	7.19
		Middle	1 962.50	7.10
		High	1 987.50	7.13
	64QAM	Low	1 937.50	7.30
		Middle	1 962.50	7.14
		High	1 987.50	7.11
	256QAM	Low	1 937.50	7.24
		Middle	1 962.50	7.15
		High	1 987.50	7.15

(4 Port) B25 DSS 20 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	1 940.00	7.54
		Middle	1 962.50	7.45
		High	1 985.00	7.48
	16QAM	Low	1 940.00	7.57
		Middle	1 962.50	7.41
		High	1 985.00	7.51
	64QAM	Low	1 940.00	7.55
		Middle	1 962.50	7.45
		High	1 985.00	7.43
	256QAM	Low	1 940.00	7.57
		Middle	1 962.50	7.49
		High	1 985.00	7.51
1	QPSK	Low	1 940.00	7.57
		Middle	1 962.50	7.44
		High	1 985.00	7.42
	16QAM	Low	1 940.00	7.62
		Middle	1 962.50	7.40
		High	1 985.00	7.48
	64QAM	Low	1 940.00	7.53
		Middle	1 962.50	7.42
		High	1 985.00	7.48
	256QAM	Low	1 940.00	7.59
		Middle	1 962.50	7.45
		High	1 985.00	7.52
2	QPSK	Low	1 940.00	7.55
		Middle	1 962.50	7.40
		High	1 985.00	7.46
	16QAM	Low	1 940.00	7.60
		Middle	1 962.50	7.42
		High	1 985.00	7.49
	64QAM	Low	1 940.00	7.56
		Middle	1 962.50	7.51
		High	1 985.00	7.50
	256QAM	Low	1 940.00	7.62
		Middle	1 962.50	7.47
		High	1 985.00	7.50
3	QPSK	Low	1 940.00	7.51
		Middle	1 962.50	7.48
		High	1 985.00	7.47
	16QAM	Low	1 940.00	7.57
		Middle	1 962.50	7.41
		High	1 985.00	7.49
	64QAM	Low	1 940.00	7.49
		Middle	1 962.50	7.47
		High	1 985.00	7.46
	256QAM	Low	1 940.00	7.60
		Middle	1 962.50	7.47
		High	1 985.00	7.49

(4 Port) B66 DSS 10 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2 115.00	7.45
		Middle	2 145.00	7.34
		High	2 175.00	7.34
	16QAM	Low	2 115.00	7.49
		Middle	2 145.00	7.34
		High	2 175.00	7.33
	64QAM	Low	2 115.00	7.46
		Middle	2 145.00	7.33
		High	2 175.00	7.32
	256QAM	Low	2 115.00	7.48
		Middle	2 145.00	7.35
		High	2 175.00	7.32
1	QPSK	Low	2 115.00	7.47
		Middle	2 145.00	7.34
		High	2 175.00	7.33
	16QAM	Low	2 115.00	7.49
		Middle	2 145.00	7.35
		High	2 175.00	7.33
	64QAM	Low	2 115.00	7.46
		Middle	2 145.00	7.31
		High	2 175.00	7.32
	256QAM	Low	2 115.00	7.49
		Middle	2 145.00	7.34
		High	2 175.00	7.39
2	QPSK	Low	2 115.00	7.47
		Middle	2 145.00	7.34
		High	2 175.00	7.34
	16QAM	Low	2 115.00	7.50
		Middle	2 145.00	7.33
		High	2 175.00	7.33
	64QAM	Low	2 115.00	7.47
		Middle	2 145.00	7.35
		High	2 175.00	7.31
	256QAM	Low	2 115.00	7.48
		Middle	2 145.00	7.34
		High	2 175.00	7.40
3	QPSK	Low	2 115.00	7.47
		Middle	2 145.00	7.34
		High	2 175.00	7.34
	16QAM	Low	2 115.00	7.50
		Middle	2 145.00	7.33
		High	2 175.00	7.32
	64QAM	Low	2 115.00	7.47
		Middle	2 145.00	7.32
		High	2 175.00	7.41
	256QAM	Low	2 115.00	7.49
		Middle	2 145.00	7.41
		High	2 175.00	7.39

(4 Port) B66 DSS 15 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2 117.50	7.51
		Middle	2 145.00	7.26
		High	2 172.50	7.33
	16QAM	Low	2 117.50	7.57
		Middle	2 145.00	7.32
		High	2 172.50	7.34
	64QAM	Low	2 117.50	7.56
		Middle	2 145.00	7.35
		High	2 172.50	7.37
	256QAM	Low	2 117.50	7.53
		Middle	2 145.00	7.36
		High	2 172.50	7.37
1	QPSK	Low	2 117.50	7.54
		Middle	2 145.00	7.34
		High	2 172.50	7.33
	16QAM	Low	2 117.50	7.59
		Middle	2 145.00	7.33
		High	2 172.50	7.34
	64QAM	Low	2 117.50	7.56
		Middle	2 145.00	7.36
		High	2 172.50	7.36
	256QAM	Low	2 117.50	7.54
		Middle	2 145.00	7.37
		High	2 172.50	7.34
2	QPSK	Low	2 117.50	7.60
		Middle	2 145.00	7.31
		High	2 172.50	7.32
	16QAM	Low	2 117.50	7.61
		Middle	2 145.00	7.34
		High	2 172.50	7.34
	64QAM	Low	2 117.50	7.61
		Middle	2 145.00	7.35
		High	2 172.50	7.37
	256QAM	Low	2 117.50	7.60
		Middle	2 145.00	7.35
		High	2 172.50	7.36
3	QPSK	Low	2 117.50	7.56
		Middle	2 145.00	7.32
		High	2 172.50	7.35
	16QAM	Low	2 117.50	7.60
		Middle	2 145.00	7.33
		High	2 172.50	7.34
	64QAM	Low	2 117.50	7.56
		Middle	2 145.00	7.35
		High	2 172.50	7.37
	256QAM	Low	2 117.50	7.57
		Middle	2 145.00	7.36
		High	2 172.50	7.36

(4 Port) B66 DSS 20 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2 120.00	7.68
		Middle	2 145.00	7.54
		High	2 170.00	7.56
	16QAM	Low	2 120.00	7.70
		Middle	2 145.00	7.63
		High	2 170.00	7.52
	64QAM	Low	2 120.00	7.69
		Middle	2 145.00	7.53
		High	2 170.00	7.52
	256QAM	Low	2 120.00	7.68
		Middle	2 145.00	7.63
		High	2 170.00	7.54
1	QPSK	Low	2 120.00	7.72
		Middle	2 145.00	7.60
		High	2 170.00	7.55
	16QAM	Low	2 120.00	7.72
		Middle	2 145.00	7.58
		High	2 170.00	7.56
	64QAM	Low	2 120.00	7.69
		Middle	2 145.00	7.54
		High	2 170.00	7.52
	256QAM	Low	2 120.00	7.70
		Middle	2 145.00	7.56
		High	2 170.00	7.55
2	QPSK	Low	2 120.00	7.70
		Middle	2 145.00	7.56
		High	2 170.00	7.56
	16QAM	Low	2 120.00	7.71
		Middle	2 145.00	7.58
		High	2 170.00	7.56
	64QAM	Low	2 120.00	7.70
		Middle	2 145.00	7.54
		High	2 170.00	7.52
	256QAM	Low	2 120.00	7.68
		Middle	2 145.00	7.57
		High	2 170.00	7.53
3	QPSK	Low	2 120.00	7.69
		Middle	2 145.00	7.55
		High	2 170.00	7.56
	16QAM	Low	2 120.00	7.72
		Middle	2 145.00	7.57
		High	2 170.00	7.56
	64QAM	Low	2 120.00	7.69
		Middle	2 145.00	7.54
		High	2 170.00	7.51
	256QAM	Low	2 120.00	7.68
		Middle	2 145.00	7.57
		High	2 170.00	7.54

Tabular Data of RF Contiguous PAPR

(4 Port) B25 DSS 10 MHz 1 Carrier + B25 LTE 5 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	1 937.50	7.79
		Middle	1 962.50	7.90
		High	1 987.50	7.94
	16QAM	Low	1 937.50	7.77
		Middle	1 962.50	7.81
		High	1 987.50	7.92
	64QAM	Low	1 937.50	7.98
		Middle	1 962.50	7.86
		High	1 987.50	7.89
	256QAM	Low	1 937.50	7.96
		Middle	1 962.50	7.82
		High	1 987.50	7.90
1	QPSK	Low	1 937.50	7.86
		Middle	1 962.50	7.91
		High	1 987.50	7.95
	16QAM	Low	1 937.50	7.75
		Middle	1 962.50	7.84
		High	1 987.50	7.89
	64QAM	Low	1 937.50	7.92
		Middle	1 962.50	7.84
		High	1 987.50	7.87
	256QAM	Low	1 937.50	7.94
		Middle	1 962.50	7.80
		High	1 987.50	7.89
2	QPSK	Low	1 937.50	7.88
		Middle	1 962.50	7.92
		High	1 987.50	7.93
	16QAM	Low	1 937.50	7.84
		Middle	1 962.50	7.81
		High	1 987.50	7.91
	64QAM	Low	1 937.50	7.99
		Middle	1 962.50	7.86
		High	1 987.50	7.86
	256QAM	Low	1 937.50	8.04
		Middle	1 962.50	7.85
		High	1 987.50	7.91
3	QPSK	Low	1 937.50	7.87
		Middle	1 962.50	7.86
		High	1 987.50	7.93
	16QAM	Low	1 937.50	7.86
		Middle	1 962.50	7.83
		High	1 987.50	7.92
	64QAM	Low	1 937.50	7.95
		Middle	1 962.50	7.88
		High	1 987.50	7.89
	256QAM	Low	1 937.50	7.96
		Middle	1 962.50	7.87
		High	1 987.50	7.91

(4 Port) B25 DSS 20 MHz 1 Carrier + B25 LTE 10 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	1 945.00	7.70
		Middle	1 962.50	7.65
		High	1 980.00	7.68
	16QAM	Low	1 945.00	7.80
		Middle	1 962.50	7.71
		High	1 980.00	7.64
	64QAM	Low	1 945.00	7.83
		Middle	1 962.50	7.65
		High	1 980.00	7.64
	256QAM	Low	1 945.00	7.81
		Middle	1 962.50	7.61
		High	1 980.00	7.69
1	QPSK	Low	1 945.00	7.76
		Middle	1 962.50	7.66
		High	1 980.00	7.65
	16QAM	Low	1 945.00	7.79
		Middle	1 962.50	7.70
		High	1 980.00	7.66
	64QAM	Low	1 945.00	7.84
		Middle	1 962.50	7.63
		High	1 980.00	7.61
	256QAM	Low	1 945.00	7.83
		Middle	1 962.50	7.55
		High	1 980.00	7.64
2	QPSK	Low	1 945.00	7.80
		Middle	1 962.50	7.65
		High	1 980.00	7.66
	16QAM	Low	1 945.00	7.86
		Middle	1 962.50	7.72
		High	1 980.00	7.64
	64QAM	Low	1 945.00	7.76
		Middle	1 962.50	7.66
		High	1 980.00	7.62
	256QAM	Low	1 945.00	7.86
		Middle	1 962.50	7.68
		High	1 980.00	7.67
3	QPSK	Low	1 945.00	7.76
		Middle	1 962.50	7.68
		High	1 980.00	7.65
	16QAM	Low	1 945.00	7.83
		Middle	1 962.50	7.70
		High	1 980.00	7.68
	64QAM	Low	1 945.00	7.79
		Middle	1 962.50	7.66
		High	1 980.00	7.61
	256QAM	Low	1 945.00	7.82
		Middle	1 962.50	7.60
		High	1 980.00	7.62

(4 Port) B25 DSS 10 MHz 1 Carrier + n25 5G NR 5 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	1 937.50	7.91
		Middle	1 962.50	7.90
		High	1 987.50	7.92
	16QAM	Low	1 937.50	7.90
		Middle	1 962.50	7.94
		High	1 987.50	7.91
	64QAM	Low	1 937.50	7.84
		Middle	1 962.50	7.90
		High	1 987.50	7.92
	256QAM	Low	1 937.50	7.86
		Middle	1 962.50	7.91
		High	1 987.50	7.93
1	QPSK	Low	1 937.50	7.89
		Middle	1 962.50	7.92
		High	1 987.50	7.90
	16QAM	Low	1 937.50	7.90
		Middle	1 962.50	7.93
		High	1 987.50	7.91
	64QAM	Low	1 937.50	7.86
		Middle	1 962.50	7.89
		High	1 987.50	7.89
	256QAM	Low	1 937.50	7.86
		Middle	1 962.50	7.91
		High	1 987.50	7.90
2	QPSK	Low	1 937.50	7.89
		Middle	1 962.50	7.94
		High	1 987.50	7.89
	16QAM	Low	1 937.50	7.88
		Middle	1 962.50	7.92
		High	1 987.50	7.91
	64QAM	Low	1 937.50	7.90
		Middle	1 962.50	7.92
		High	1 987.50	7.90
	256QAM	Low	1 937.50	7.88
		Middle	1 962.50	7.92
		High	1 987.50	7.90
3	QPSK	Low	1 937.50	7.92
		Middle	1 962.50	7.92
		High	1 987.50	7.91
	16QAM	Low	1 937.50	7.90
		Middle	1 962.50	7.89
		High	1 987.50	7.93
	64QAM	Low	1 937.50	7.85
		Middle	1 962.50	7.92
		High	1 987.50	7.87
	256QAM	Low	1 937.50	7.89
		Middle	1 962.50	7.93
		High	1 987.50	7.88

(4 Port) B25 DSS 10 MHz 1 Carrier + n25 5G NR 20 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	1 945.00	7.83
		Middle	1 962.50	6.26
		High	1 980.00	7.62
	16QAM	Low	1 945.00	7.87
		Middle	1 962.50	6.24
		High	1 980.00	7.62
	64QAM	Low	1 945.00	7.86
		Middle	1 962.50	6.24
		High	1 980.00	7.62
	256QAM	Low	1 945.00	7.87
		Middle	1 962.50	6.23
		High	1 980.00	7.56
1	QPSK	Low	1 945.00	7.76
		Middle	1 962.50	6.23
		High	1 980.00	7.63
	16QAM	Low	1 945.00	7.83
		Middle	1 962.50	6.21
		High	1 980.00	7.60
	64QAM	Low	1 945.00	7.75
		Middle	1 962.50	6.23
		High	1 980.00	7.58
	256QAM	Low	1 945.00	7.86
		Middle	1 962.50	6.24
		High	1 980.00	7.58
2	QPSK	Low	1 945.00	7.82
		Middle	1 962.50	5.85
		High	1 980.00	7.65
	16QAM	Low	1 945.00	7.85
		Middle	1 962.50	6.24
		High	1 980.00	7.61
	64QAM	Low	1 945.00	7.86
		Middle	1 962.50	6.21
		High	1 980.00	7.52
	256QAM	Low	1 945.00	7.88
		Middle	1 962.50	6.23
		High	1 980.00	7.57
3	QPSK	Low	1 945.00	7.83
		Middle	1 962.50	6.25
		High	1 980.00	7.59
	16QAM	Low	1 945.00	7.81
		Middle	1 962.50	6.22
		High	1 980.00	7.60
	64QAM	Low	1 945.00	7.78
		Middle	1 962.50	6.22
		High	1 980.00	7.57
	256QAM	Low	1 945.00	7.85
		Middle	1 962.50	6.23
		High	1 980.00	7.61

(4 Port) B66 DSS 10 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2 117.50	8.05
		Middle	2 145.00	8.08
		High	2 172.50	8.08
	16QAM	Low	2 117.50	8.08
		Middle	2 145.00	8.08
		High	2 172.50	8.08
	64QAM	Low	2 117.50	8.10
		Middle	2 145.00	8.09
		High	2 172.50	8.06
	256QAM	Low	2 117.50	8.09
		Middle	2 145.00	8.05
		High	2 172.50	8.04
1	QPSK	Low	2 117.50	8.06
		Middle	2 145.00	8.05
		High	2 172.50	8.07
	16QAM	Low	2 117.50	8.07
		Middle	2 145.00	8.06
		High	2 172.50	8.06
	64QAM	Low	2 117.50	8.05
		Middle	2 145.00	8.09
		High	2 172.50	8.07
	256QAM	Low	2 117.50	8.05
		Middle	2 145.00	8.10
		High	2 172.50	8.06
2	QPSK	Low	2 117.50	8.06
		Middle	2 145.00	8.08
		High	2 172.50	8.08
	16QAM	Low	2 117.50	8.05
		Middle	2 145.00	8.09
		High	2 172.50	8.06
	64QAM	Low	2 117.50	8.09
		Middle	2 145.00	8.09
		High	2 172.50	8.04
	256QAM	Low	2 117.50	8.07
		Middle	2 145.00	8.09
		High	2 172.50	8.05
3	QPSK	Low	2 117.50	8.07
		Middle	2 145.00	8.09
		High	2 172.50	8.07
	16QAM	Low	2 117.50	8.07
		Middle	2 145.00	8.09
		High	2 172.50	8.09
	64QAM	Low	2 117.50	8.07
		Middle	2 145.00	8.11
		High	2 172.50	8.09
	256QAM	Low	2 117.50	8.11
		Middle	2 145.00	8.10
		High	2 172.50	8.06

(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 5 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2 117.50	8.06
		Middle	2 145.00	8.03
		High	2 172.50	8.09
	16QAM	Low	2 117.50	8.02
		Middle	2 145.00	8.06
		High	2 172.50	8.08
	64QAM	Low	2 117.50	8.07
		Middle	2 145.00	8.08
		High	2 172.50	8.07
	256QAM	Low	2 117.50	8.07
		Middle	2 145.00	8.08
		High	2 172.50	8.08
1	QPSK	Low	2 117.50	8.08
		Middle	2 145.00	7.99
		High	2 172.50	8.09
	16QAM	Low	2 117.50	8.04
		Middle	2 145.00	8.04
		High	2 172.50	8.07
	64QAM	Low	2 117.50	8.07
		Middle	2 145.00	8.05
		High	2 172.50	7.89
	256QAM	Low	2 117.50	8.05
		Middle	2 145.00	8.04
		High	2 172.50	8.06
2	QPSK	Low	2 117.50	8.04
		Middle	2 145.00	8.06
		High	2 172.50	8.08
	16QAM	Low	2 117.50	8.04
		Middle	2 145.00	8.06
		High	2 172.50	8.08
	64QAM	Low	2 117.50	8.08
		Middle	2 145.00	8.07
		High	2 172.50	8.04
	256QAM	Low	2 117.50	8.05
		Middle	2 145.00	8.05
		High	2 172.50	8.11
3	QPSK	Low	2 117.50	8.06
		Middle	2 145.00	8.07
		High	2 172.50	8.08
	16QAM	Low	2 117.50	8.04
		Middle	2 145.00	8.07
		High	2 172.50	8.09
	64QAM	Low	2 117.50	8.07
		Middle	2 145.00	8.06
		High	2 172.50	8.09
	256QAM	Low	2 117.50	8.07
		Middle	2 145.00	8.07
		High	2 172.50	8.09

(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2 120.00	8.01
		Middle	2 145.00	8.04
		High	2 170.00	8.10
	16QAM	Low	2 120.00	8.11
		Middle	2 145.00	8.07
		High	2 170.00	8.10
	64QAM	Low	2 120.00	8.07
		Middle	2 145.00	8.06
		High	2 170.00	8.08
	256QAM	Low	2 120.00	8.08
		Middle	2 145.00	8.08
		High	2 170.00	8.08
1	QPSK	Low	2 120.00	8.04
		Middle	2 145.00	8.04
		High	2 170.00	8.07
	16QAM	Low	2 120.00	8.08
		Middle	2 145.00	8.09
		High	2 170.00	8.08
	64QAM	Low	2 120.00	8.06
		Middle	2 145.00	8.02
		High	2 170.00	8.09
	256QAM	Low	2 120.00	8.08
		Middle	2 145.00	8.07
		High	2 170.00	8.07
2	QPSK	Low	2 120.00	8.04
		Middle	2 145.00	8.05
		High	2 170.00	8.07
	16QAM	Low	2 120.00	8.09
		Middle	2 145.00	8.08
		High	2 170.00	8.10
	64QAM	Low	2 120.00	8.07
		Middle	2 145.00	8.05
		High	2 170.00	8.07
	256QAM	Low	2 120.00	8.07
		Middle	2 145.00	8.09
		High	2 170.00	8.09
3	QPSK	Low	2 120.00	8.04
		Middle	2 145.00	8.07
		High	2 170.00	8.08
	16QAM	Low	2 120.00	8.08
		Middle	2 145.00	8.09
		High	2 170.00	8.07
	64QAM	Low	2 120.00	8.08
		Middle	2 145.00	8.04
		High	2 170.00	8.08
	256QAM	Low	2 120.00	8.08
		Middle	2 145.00	8.09
		High	2 170.00	8.08

(4 Port) B66 DSS 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [4 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2 140.00	7.94
		Middle	2 145.00	7.80
		High	2 150.00	7.73
	16QAM	Low	2 140.00	7.84
		Middle	2 145.00	7.81
		High	2 150.00	7.65
	64QAM	Low	2 140.00	7.85
		Middle	2 145.00	7.65
		High	2 150.00	7.71
	256QAM	Low	2 140.00	7.92
		Middle	2 145.00	7.86
		High	2 150.00	7.71
1	QPSK	Low	2 140.00	7.94
		Middle	2 145.00	7.82
		High	2 150.00	7.82
	16QAM	Low	2 140.00	7.77
		Middle	2 145.00	7.82
		High	2 150.00	7.60
	64QAM	Low	2 140.00	7.81
		Middle	2 145.00	7.67
		High	2 150.00	7.72
	256QAM	Low	2 140.00	7.92
		Middle	2 145.00	7.80
		High	2 150.00	7.74
2	QPSK	Low	2 140.00	7.96
		Middle	2 145.00	7.78
		High	2 150.00	7.74
	16QAM	Low	2 140.00	7.88
		Middle	2 145.00	7.81
		High	2 150.00	7.61
	64QAM	Low	2 140.00	7.79
		Middle	2 145.00	7.76
		High	2 150.00	7.70
	256QAM	Low	2 140.00	7.93
		Middle	2 145.00	7.78
		High	2 150.00	7.73
3	QPSK	Low	2 140.00	7.96
		Middle	2 145.00	7.78
		High	2 150.00	7.76
	16QAM	Low	2 140.00	7.89
		Middle	2 145.00	7.83
		High	2 150.00	7.59
	64QAM	Low	2 140.00	7.88
		Middle	2 145.00	7.76
		High	2 150.00	7.74
	256QAM	Low	2 140.00	7.95
		Middle	2 145.00	7.83
		High	2 150.00	7.74

(4 Port) B66 DSS 20 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2 140.00	7.94
		Middle	2 145.00	7.80
		High	2 150.00	7.62
	16QAM	Low	2 140.00	7.93
		Middle	2 145.00	7.65
		High	2 150.00	7.77
	64QAM	Low	2 140.00	7.98
		Middle	2 145.00	7.76
		High	2 150.00	7.78
	256QAM	Low	2 140.00	7.75
		Middle	2 145.00	7.80
		High	2 150.00	7.78
1	QPSK	Low	2 140.00	7.93
		Middle	2 145.00	7.80
		High	2 150.00	7.72
	16QAM	Low	2 140.00	7.87
		Middle	2 145.00	7.73
		High	2 150.00	7.78
	64QAM	Low	2 140.00	7.93
		Middle	2 145.00	7.73
		High	2 150.00	7.78
	256QAM	Low	2 140.00	7.99
		Middle	2 145.00	7.86
		High	2 150.00	7.68
2	QPSK	Low	2 140.00	7.93
		Middle	2 145.00	7.76
		High	2 150.00	7.64
	16QAM	Low	2 140.00	7.78
		Middle	2 145.00	7.60
		High	2 150.00	7.78
	64QAM	Low	2 140.00	7.86
		Middle	2 145.00	7.77
		High	2 150.00	7.78
	256QAM	Low	2 140.00	8.01
		Middle	2 145.00	7.72
		High	2 150.00	7.54
3	QPSK	Low	2 140.00	7.95
		Middle	2 145.00	7.80
		High	2 150.00	7.70
	16QAM	Low	2 140.00	7.85
		Middle	2 145.00	7.60
		High	2 150.00	7.79
	64QAM	Low	2 140.00	7.91
		Middle	2 145.00	7.78
		High	2 150.00	7.78
	256QAM	Low	2 140.00	7.92
		Middle	2 145.00	7.88
		High	2 150.00	7.67

(4 Port) B66 DSS 15 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [4 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2 140.00	7.89
		Middle	2 145.00	7.68
		High	2 150.00	7.66
	16QAM	Low	2 140.00	7.78
		Middle	2 145.00	7.77
		High	2 150.00	7.54
	64QAM	Low	2 140.00	7.91
		Middle	2 145.00	7.78
		High	2 150.00	7.64
	256QAM	Low	2 140.00	7.89
		Middle	2 145.00	7.92
		High	2 150.00	7.56
1	QPSK	Low	2 140.00	7.90
		Middle	2 145.00	7.70
		High	2 150.00	7.56
	16QAM	Low	2 140.00	7.91
		Middle	2 145.00	7.64
		High	2 150.00	7.66
	64QAM	Low	2 140.00	7.95
		Middle	2 145.00	7.64
		High	2 150.00	7.76
	256QAM	Low	2 140.00	7.81
		Middle	2 145.00	7.48
		High	2 150.00	7.55
2	QPSK	Low	2 140.00	7.89
		Middle	2 145.00	7.65
		High	2 150.00	7.64
	16QAM	Low	2 140.00	7.82
		Middle	2 145.00	7.67
		High	2 150.00	7.63
	64QAM	Low	2 140.00	7.85
		Middle	2 145.00	7.71
		High	2 150.00	7.65
	256QAM	Low	2 140.00	7.83
		Middle	2 145.00	7.74
		High	2 150.00	7.67
3	QPSK	Low	2 140.00	7.93
		Middle	2 145.00	7.75
		High	2 150.00	7.62
	16QAM	Low	2 140.00	7.75
		Middle	2 145.00	7.61
		High	2 150.00	7.71
	64QAM	Low	2 140.00	7.80
		Middle	2 145.00	7.92
		High	2 150.00	7.62
	256QAM	Low	2 140.00	7.82
		Middle	2 145.00	7.92
		High	2 150.00	7.82

Tabular Data of RF Non-Contiguous PAPR

(4 Port) B25 DSS 10 MHz 1 Carrier + B25 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	B25 DSS 10 MHz 1 Carrier		B25 LTE 5 MHz 1 Carrier	
		Frequency (MHz)	0.1 % PAPR (dB)	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	1 935.00	8.08	1 992.50	8.25
	16QAM	1 935.00	8.02	1 992.50	8.34
	64QAM	1 935.00	8.10	1 992.50	8.28
	256QAM	1 935.00	8.11	1 992.50	8.21
1	QPSK	1 935.00	8.07	1 992.50	8.25
	16QAM	1 935.00	8.02	1 992.50	8.36
	64QAM	1 935.00	8.07	1 992.50	8.30
	256QAM	1 935.00	8.06	1 992.50	8.22
2	QPSK	1 935.00	8.07	1 992.50	8.25
	16QAM	1 935.00	8.02	1 992.50	8.36
	64QAM	1 935.00	8.07	1 992.50	8.30
	256QAM	1 935.00	8.11	1 992.50	8.22
3	QPSK	1 935.00	8.07	1 992.50	8.25
	16QAM	1 935.00	8.00	1 992.50	8.35
	64QAM	1 935.00	8.08	1 992.50	8.29
	256QAM	1 935.00	8.11	1 992.50	8.20

(4 Port) B25 DSS 20 MHz 1 Carrier + B25 LTE 10 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	B25 DSS 20 MHz 1 Carrier		B25 LTE 10 MHz 1 Carrier	
		Frequency (MHz)	0.1 % PAPR (dB)	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	1 940.00	7.95	1 990.00	8.24
	16QAM	1 940.00	7.97	1 990.00	8.19
	64QAM	1 940.00	8.02	1 990.00	8.23
	256QAM	1 940.00	8.09	1 990.00	8.27
1	QPSK	1 940.00	7.99	1 990.00	8.23
	16QAM	1 940.00	7.97	1 990.00	8.18
	64QAM	1 940.00	8.02	1 990.00	8.24
	256QAM	1 940.00	8.08	1 990.00	8.27
2	QPSK	1 940.00	7.99	1 990.00	8.23
	16QAM	1 940.00	7.97	1 990.00	8.18
	64QAM	1 940.00	8.02	1 990.00	8.22
	256QAM	1 940.00	8.09	1 990.00	8.28
3	QPSK	1 940.00	7.98	1 990.00	8.22
	16QAM	1 940.00	7.96	1 990.00	8.17
	64QAM	1 940.00	8.00	1 990.00	8.22
	256QAM	1 940.00	8.09	1 990.00	8.29

(4 Port) B25 DSS 10 MHz 1 Carrier + n25 5G NR 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	B25 DSS 10 MHz 1 Carrier		n25 5G NR 5 MHz 1 Carrier	
		Frequency (MHz)	0.1 % PAPR (dB)	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	1 935.00	8.13	1 992.50	8.24
	16QAM	1 935.00	8.04	1 992.50	8.18
	64QAM	1 935.00	8.07	1 992.50	8.22
	256QAM	1 935.00	8.04	1 992.50	8.16
1	QPSK	1 935.00	8.11	1 992.50	8.24
	16QAM	1 935.00	8.06	1 992.50	8.21
	64QAM	1 935.00	8.07	1 992.50	8.19
	256QAM	1 935.00	8.06	1 992.50	8.16
2	QPSK	1 935.00	8.13	1 992.50	8.26
	16QAM	1 935.00	8.04	1 992.50	8.18
	64QAM	1 935.00	8.08	1 992.50	8.24
	256QAM	1 935.00	8.07	1 992.50	8.16
3	QPSK	1 935.00	8.10	1 992.50	8.21
	16QAM	1 935.00	8.05	1 992.50	8.19
	64QAM	1 935.00	8.08	1 992.50	8.22
	256QAM	1 935.00	8.06	1 992.50	8.15

(4 Port) B25 DSS 10 MHz 1 Carrier + n25 5G NR 20 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	B25 DSS 10 MHz 1 Carrier		n25 5G NR 20 MHz 1 Carrier	
		Frequency (MHz)	0.1 % PAPR (dB)	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	1 935.00	8.30	1 985.00	7.90
	16QAM	1 935.00	8.25	1 985.00	7.90
	64QAM	1 935.00	8.22	1 985.00	7.83
	256QAM	1 935.00	8.32	1 985.00	7.85
1	QPSK	1 935.00	8.32	1 985.00	7.86
	16QAM	1 935.00	8.25	1 985.00	7.88
	64QAM	1 935.00	8.23	1 985.00	7.83
	256QAM	1 935.00	8.33	1 985.00	7.85
2	QPSK	1 935.00	8.34	1 985.00	7.93
	16QAM	1 935.00	8.23	1 985.00	7.89
	64QAM	1 935.00	8.22	1 985.00	7.84
	256QAM	1 935.00	8.32	1 985.00	7.85
3	QPSK	1 935.00	8.31	1 985.00	7.93
	16QAM	1 935.00	8.26	1 985.00	7.89
	64QAM	1 935.00	8.24	1 985.00	7.83
	256QAM	1 935.00	8.31	1 985.00	7.84

(4 Port) B66 DSS 10 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	B66 DSS 10 MHz 1 Carrier		B66 LTE 5 MHz 1 Carrier	
		Frequency (MHz)	0.1 % PAPR (dB)	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	2 115.00	8.15	2 177.50	8.25
	16QAM	2 115.00	8.10	2 177.50	8.29
	64QAM	2 115.00	8.17	2 177.50	8.28
	256QAM	2 115.00	8.18	2 177.50	8.31
1	QPSK	2 115.00	8.15	2 177.50	8.26
	16QAM	2 115.00	8.09	2 177.50	8.25
	64QAM	2 115.00	8.17	2 177.50	8.31
	256QAM	2 115.00	8.14	2 177.50	8.29
2	QPSK	2 115.00	8.16	2 177.50	8.23
	16QAM	2 115.00	8.09	2 177.50	8.25
	64QAM	2 115.00	8.18	2 177.50	8.29
	256QAM	2 115.00	8.16	2 177.50	8.29
3	QPSK	2 115.00	8.16	2 177.50	8.22
	16QAM	2 115.00	8.10	2 177.50	8.25
	64QAM	2 115.00	8.17	2 177.50	8.28
	256QAM	2 115.00	8.16	2 177.50	8.29

(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	B66 DSS 10 MHz 1 Carrier		n66 5G NR 5 MHz 1 Carrier	
		Frequency (MHz)	0.1 % PAPR (dB)	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	2 115.00	8.11	2 177.50	8.24
	16QAM	2 115.00	8.14	2 177.50	8.21
	64QAM	2 115.00	8.15	2 177.50	8.18
	256QAM	2 115.00	8.17	2 177.50	8.21
1	QPSK	2 115.00	8.11	2 177.50	8.27
	16QAM	2 115.00	8.15	2 177.50	8.21
	64QAM	2 115.00	8.15	2 177.50	8.19
	256QAM	2 115.00	8.17	2 177.50	8.19
2	QPSK	2 115.00	8.11	2 177.50	8.23
	16QAM	2 115.00	8.15	2 177.50	8.20
	64QAM	2 115.00	8.15	2 177.50	8.19
	256QAM	2 115.00	8.18	2 177.50	8.19
3	QPSK	2 115.00	8.12	2 177.50	8.24
	16QAM	2 115.00	8.13	2 177.50	8.19
	64QAM	2 115.00	8.14	2 177.50	8.17
	256QAM	2 115.00	8.17	2 177.50	8.18

(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C)

Ant.	Mod.	B66 DSS 10 MHz 1 Carrier		n66 5G NR 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier	
		Frequency (MHz)	0.1 % PAPR (dB)	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	2 115.00	8.26	2 175.00	8.17
	16QAM	2 115.00	8.23	2 175.00	8.17
	64QAM	2 115.00	8.29	2 175.00	8.16
	256QAM	2 115.00	8.27	2 175.00	8.18
1	QPSK	2 115.00	8.23	2 175.00	8.17
	16QAM	2 115.00	8.25	2 175.00	8.15
	64QAM	2 115.00	8.27	2 175.00	8.19
	256QAM	2 115.00	8.27	2 175.00	8.18
2	QPSK	2 115.00	8.25	2 175.00	8.16
	16QAM	2 115.00	8.24	2 175.00	8.18
	64QAM	2 115.00	8.28	2 175.00	8.19
	256QAM	2 115.00	8.26	2 175.00	8.20
3	QPSK	2 115.00	8.26	2 175.00	8.17
	16QAM	2 115.00	8.27	2 175.00	8.20
	64QAM	2 115.00	8.28	2 175.00	8.20
	256QAM	2 115.00	8.28	2 175.00	8.21

(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C)

Ant.	Mod.	B66 DSS 10 MHz 1 Carrier + n66 5G NR 5 MHz 1 Carrier		B66 LTE 5 MHz 1 Carrier	
		Frequency (MHz)	0.1 % PAPR (dB)	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	2 117.50	8.04	2 177.50	8.20
	16QAM	2 117.50	8.08	2 177.50	8.28
	64QAM	2 117.50	8.11	2 177.50	8.35
	256QAM	2 117.50	8.05	2 177.50	8.38
1	QPSK	2 117.50	8.06	2 177.50	8.20
	16QAM	2 117.50	8.10	2 177.50	8.28
	64QAM	2 117.50	8.12	2 177.50	8.35
	256QAM	2 117.50	8.04	2 177.50	8.34
2	QPSK	2 117.50	8.05	2 177.50	8.21
	16QAM	2 117.50	8.07	2 177.50	8.31
	64QAM	2 117.50	8.10	2 177.50	8.32
	256QAM	2 117.50	8.05	2 177.50	8.34
3	QPSK	2 117.50	8.05	2 177.50	8.23
	16QAM	2 117.50	8.07	2 177.50	8.26
	64QAM	2 117.50	8.09	2 177.50	8.31
	256QAM	2 117.50	8.04	2 177.50	8.33

(4 Port) B66 DSS 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [4 Carrier] (1C+3C)

Ant.	Mod.	B66 DSS 20 MHz 1 Carrier		B66 LTE 10 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier	
		Frequency (MHz)	0.1 % PAPR (dB)	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	2 120.00	8.26	2 160.00	8.10
	16QAM	2 120.00	8.35	2 160.00	8.11
	64QAM	2 120.00	8.31	2 160.00	8.04
	256QAM	2 120.00	8.30	2 160.00	8.08
1	QPSK	2 120.00	8.27	2 160.00	8.13
	16QAM	2 120.00	8.38	2 160.00	8.11
	64QAM	2 120.00	8.33	2 160.00	7.99
	256QAM	2 120.00	8.31	2 160.00	8.04
2	QPSK	2 120.00	8.36	2 160.00	8.11
	16QAM	2 120.00	8.37	2 160.00	8.12
	64QAM	2 120.00	8.30	2 160.00	7.93
	256QAM	2 120.00	8.30	2 160.00	8.08
3	QPSK	2 120.00	8.27	2 160.00	8.15
	16QAM	2 120.00	8.37	2 160.00	8.12
	64QAM	2 120.00	8.30	2 160.00	8.15
	256QAM	2 120.00	8.30	2 160.00	8.03

(4 Port) B66 DSS 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [4 Carrier] (3C+1C)

Ant.	Mod.	B66 DSS 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier		B66 LTE 20 MHz 1 Carrier	
		Frequency (MHz)	0.1 % PAPR (dB)	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	2 130.00	8.14	2 170.00	8.29
	16QAM	2 130.00	8.33	2 170.00	8.26
	64QAM	2 130.00	8.22	2 170.00	8.31
	256QAM	2 130.00	8.20	2 170.00	8.26
1	QPSK	2 130.00	8.16	2 170.00	8.27
	16QAM	2 130.00	8.18	2 170.00	8.27
	64QAM	2 130.00	8.20	2 170.00	8.31
	256QAM	2 130.00	8.21	2 170.00	8.28
2	QPSK	2 130.00	8.17	2 170.00	8.26
	16QAM	2 130.00	8.19	2 170.00	8.28
	64QAM	2 130.00	8.20	2 170.00	8.31
	256QAM	2 130.00	8.21	2 170.00	8.26
3	QPSK	2 130.00	8.14	2 170.00	8.25
	16QAM	2 130.00	8.19	2 170.00	8.28
	64QAM	2 130.00	8.20	2 170.00	8.30
	256QAM	2 130.00	8.22	2 170.00	8.27

(4 Port) B66 DSS 20 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (1C+3C)

Ant.	Mod.	B66 DSS 20 MHz 1 Carrier		n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier	
		Frequency (MHz)	0.1 % PAPR (dB)	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	2 120.00	8.33	2 160.00	8.07
	16QAM	2 120.00	8.32	2 160.00	8.10
	64QAM	2 120.00	8.32	2 160.00	8.09
	256QAM	2 120.00	8.33	2 160.00	8.09
1	QPSK	2 120.00	8.34	2 160.00	8.11
	16QAM	2 120.00	8.34	2 160.00	7.94
	64QAM	2 120.00	8.33	2 160.00	8.08
	256QAM	2 120.00	8.33	2 160.00	7.98
2	QPSK	2 120.00	8.34	2 160.00	8.12
	16QAM	2 120.00	8.32	2 160.00	8.00
	64QAM	2 120.00	8.32	2 160.00	8.06
	256QAM	2 120.00	8.32	2 160.00	8.11
3	QPSK	2 120.00	8.34	2 160.00	8.12
	16QAM	2 120.00	8.31	2 160.00	8.09
	64QAM	2 120.00	8.31	2 160.00	8.13
	256QAM	2 120.00	8.31	2 160.00	8.15

(4 Port) B66 DSS 20 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (3C+1C)

Ant.	Mod.	B66 DSS 20 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier		B66 LTE 5 MHz 1 Carrier	
		Frequency (MHz)	0.1 % PAPR (dB)	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	2 137.50	8.04	2 177.50	8.31
	16QAM	2 137.50	8.01	2 177.50	8.32
	64QAM	2 137.50	7.95	2 177.50	8.38
	256QAM	2 137.50	8.01	2 177.50	8.36
1	QPSK	2 137.50	8.04	2 177.50	8.33
	16QAM	2 137.50	7.96	2 177.50	8.34
	64QAM	2 137.50	7.99	2 177.50	8.34
	256QAM	2 137.50	8.06	2 177.50	8.35
2	QPSK	2 137.50	8.02	2 177.50	8.38
	16QAM	2 137.50	7.94	2 177.50	8.32
	64QAM	2 137.50	8.03	2 177.50	8.33
	256QAM	2 137.50	8.02	2 177.50	8.35
3	QPSK	2 137.50	8.05	2 177.50	8.32
	16QAM	2 137.50	7.98	2 177.50	8.32
	64QAM	2 137.50	8.04	2 177.50	8.39
	256QAM	2 137.50	8.04	2 177.50	8.31

(4 Port) B66 DSS 15 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [4 Carrier] (1C+3C)

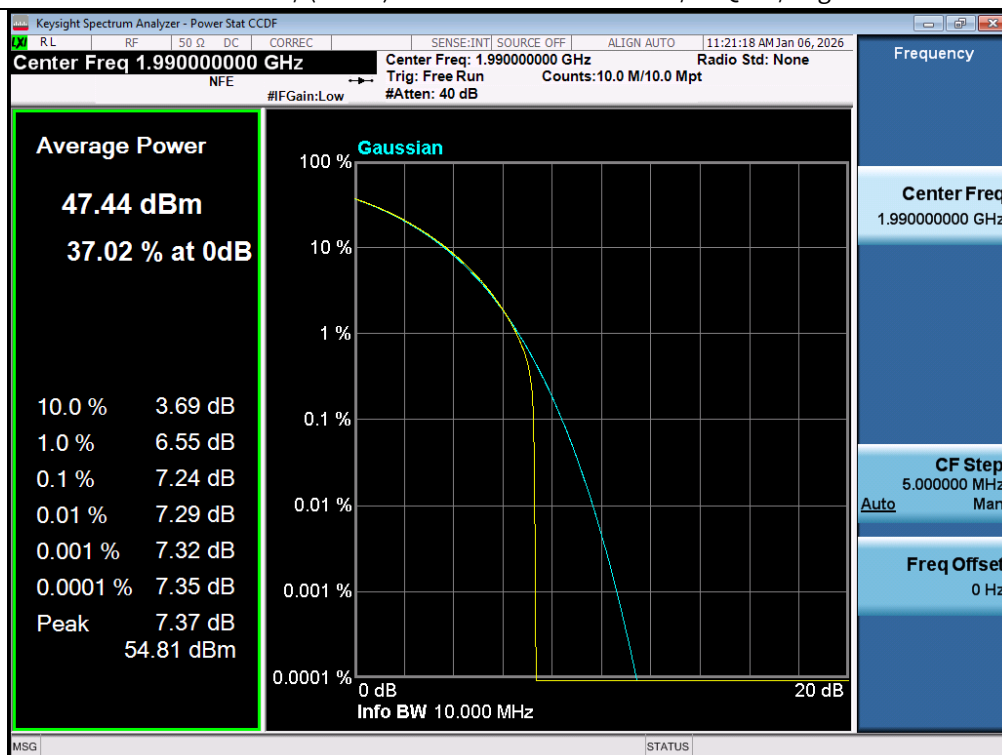
Ant.	Mod.	B66 DSS 15 MHz 1 Carrier		n66 5G NR 10 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier	
		Frequency (MHz)	0.1 % PAPR (dB)	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	2 117.50	8.29	2 157.50	8.00
	16QAM	2 117.50	8.38	2 157.50	7.98
	64QAM	2 117.50	8.39	2 157.50	8.00
	256QAM	2 117.50	8.37	2 157.50	7.99
1	QPSK	2 117.50	8.29	2 157.50	7.74
	16QAM	2 117.50	8.38	2 157.50	7.99
	64QAM	2 117.50	8.38	2 157.50	7.99
	256QAM	2 117.50	8.37	2 157.50	8.01
2	QPSK	2 117.50	8.32	2 157.50	8.01
	16QAM	2 117.50	8.36	2 157.50	7.98
	64QAM	2 117.50	8.38	2 157.50	7.99
	256QAM	2 117.50	8.37	2 157.50	8.01
3	QPSK	2 117.50	8.32	2 157.50	8.01
	16QAM	2 117.50	8.37	2 157.50	8.02
	64QAM	2 117.50	8.37	2 157.50	8.01
	256QAM	2 117.50	8.38	2 157.50	8.02

(4 Port) B66 DSS 15 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [4 Carrier] (3C+1C)

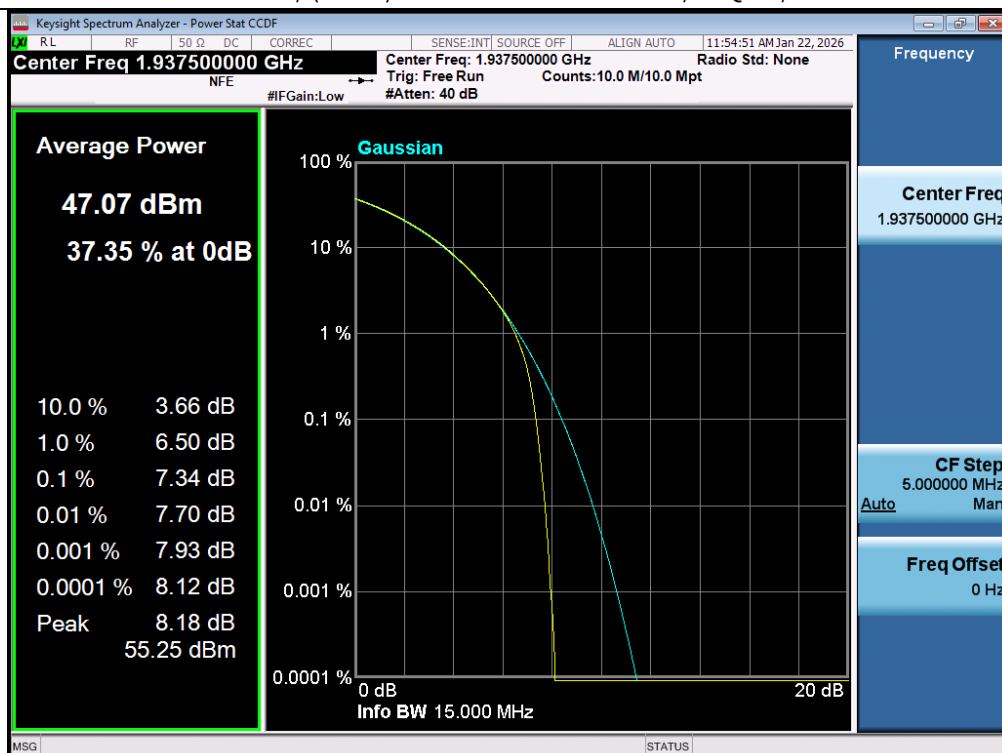
Ant.	Mod.	B66 DSS 15 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier		n66 5G NR 25 MHz 1 Carrier	
		Frequency (MHz)	0.1 % PAPR (dB)	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	2 127.50	8.21	2 167.50	8.20
	16QAM	2 127.50	8.19	2 167.50	8.21
	64QAM	2 127.50	8.18	2 167.50	8.08
	256QAM	2 127.50	8.19	2 167.50	8.12
1	QPSK	2 127.50	8.20	2 167.50	8.21
	16QAM	2 127.50	8.24	2 167.50	8.17
	64QAM	2 127.50	8.36	2 167.50	8.25
	256QAM	2 127.50	8.35	2 167.50	8.18
2	QPSK	2 127.50	8.18	2 167.50	8.21
	16QAM	2 127.50	8.25	2 167.50	8.09
	64QAM	2 127.50	8.34	2 167.50	8.15
	256QAM	2 127.50	8.32	2 167.50	8.12
3	QPSK	2 127.50	8.20	2 167.50	8.19
	16QAM	2 127.50	8.26	2 167.50	8.18
	64QAM	2 127.50	8.23	2 167.50	8.22
	256QAM	2 127.50	8.24	2 167.50	8.21

Plot Data of RF PAPR

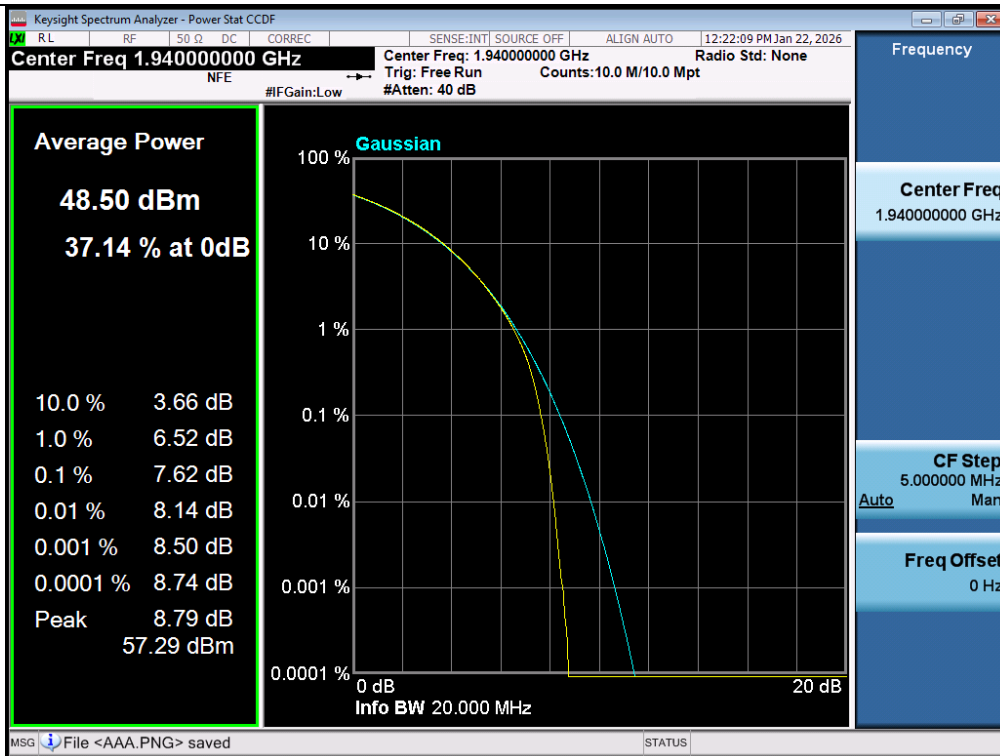
Antenna 0 / (4 Port) B25 DSS 10 MHz 1 Carrier / 16QAM / High



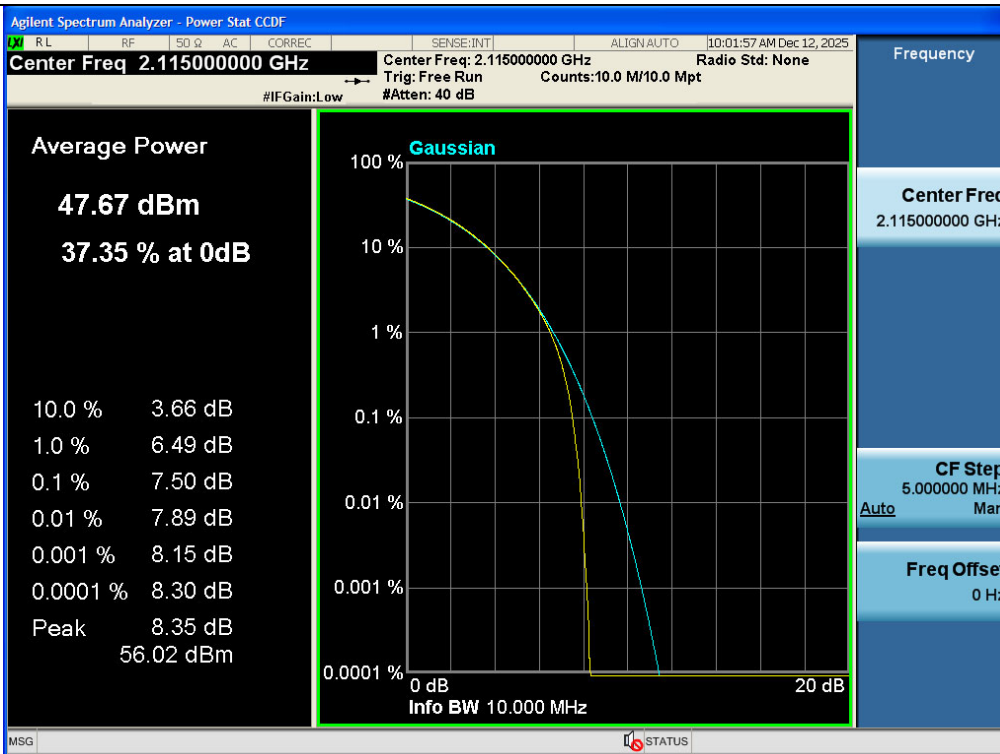
Antenna 0 / (4 Port) B25 DSS 15 MHz 1 Carrier / 64QAM / Low



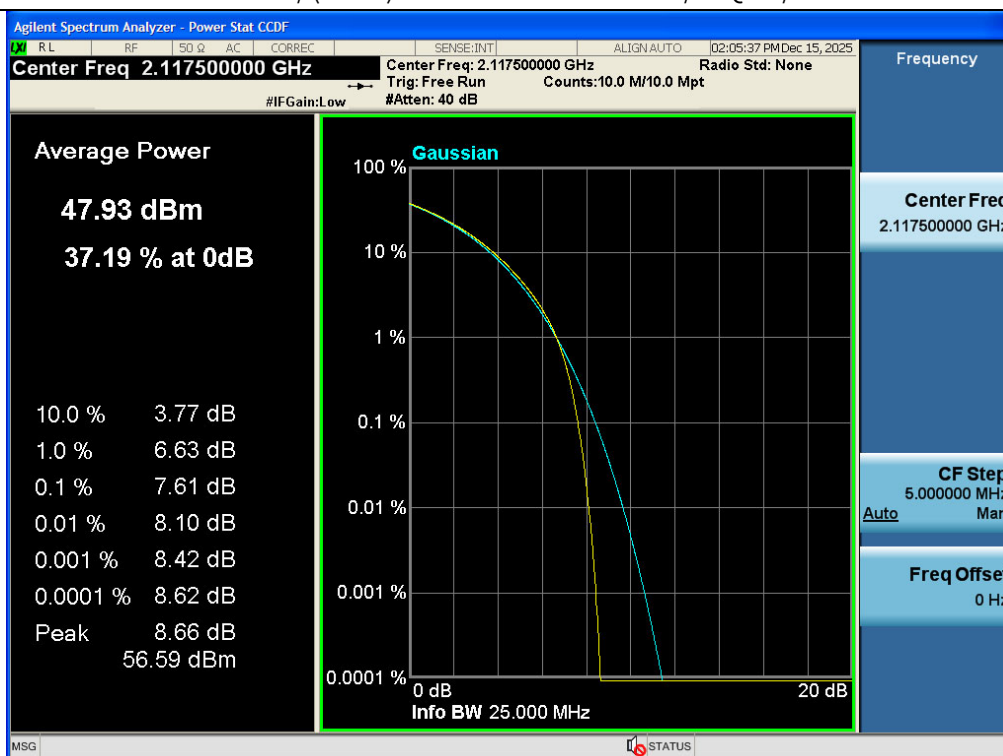
Antenna 1 / (4 Port) B25 DSS 20 MHz 1 Carrier / 16QAM / Low



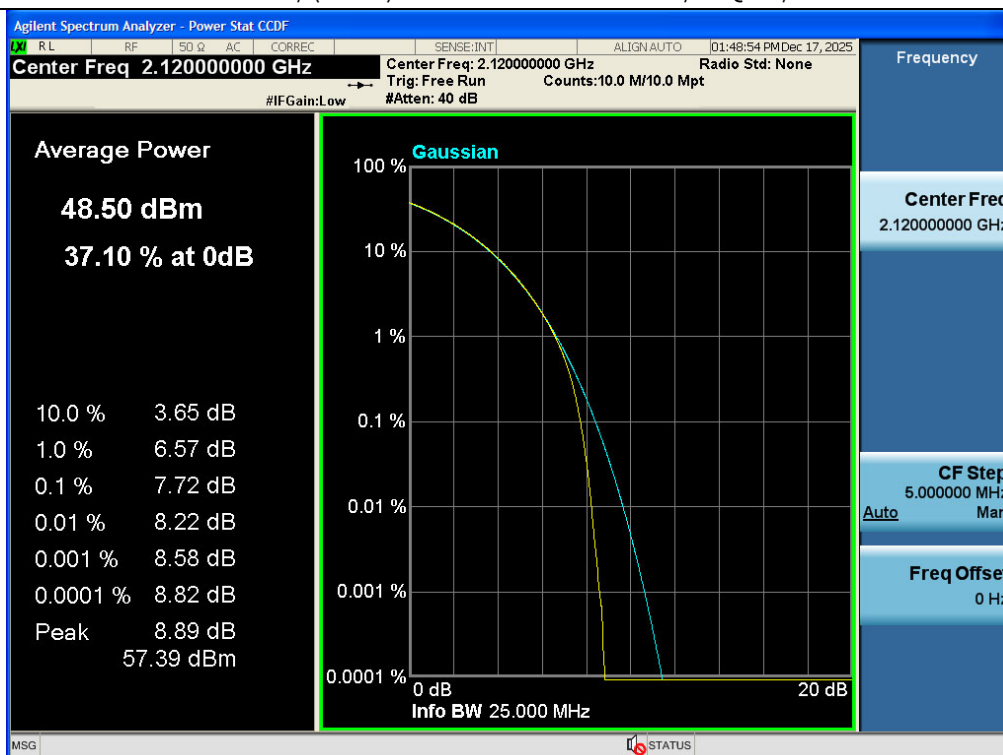
Antenna 2 / (4 Port) B66 DSS 10 MHz 1 Carrier / 16QAM / Low



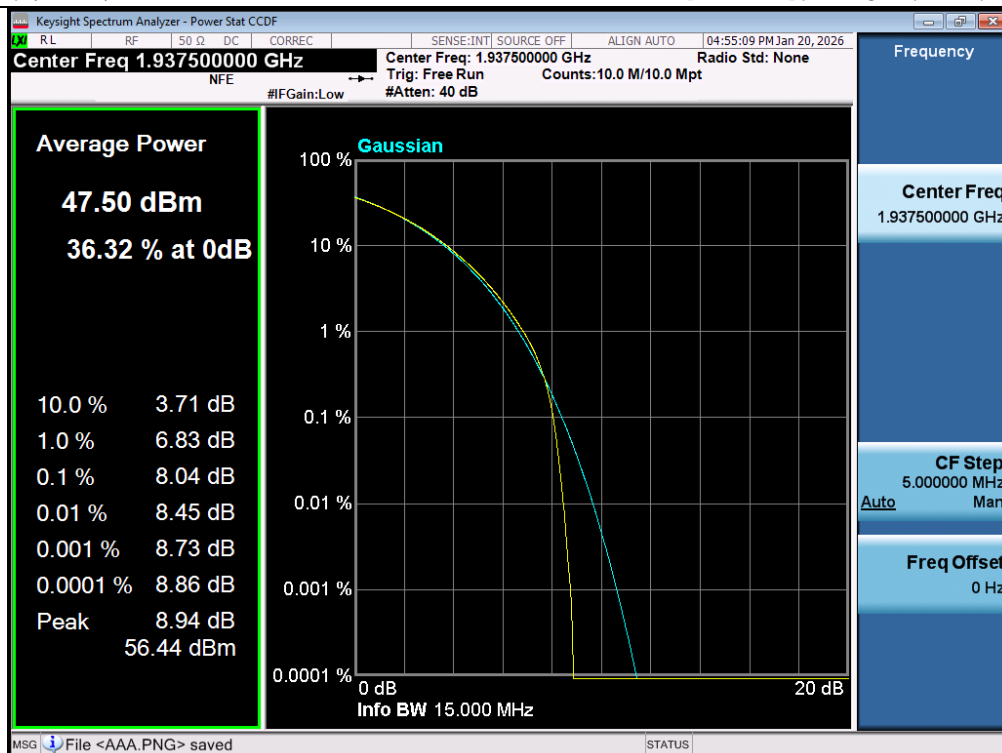
Antenna 2 / (4 Port) B66 DSS 15 MHz 1 Carrier / 16QAM / Low



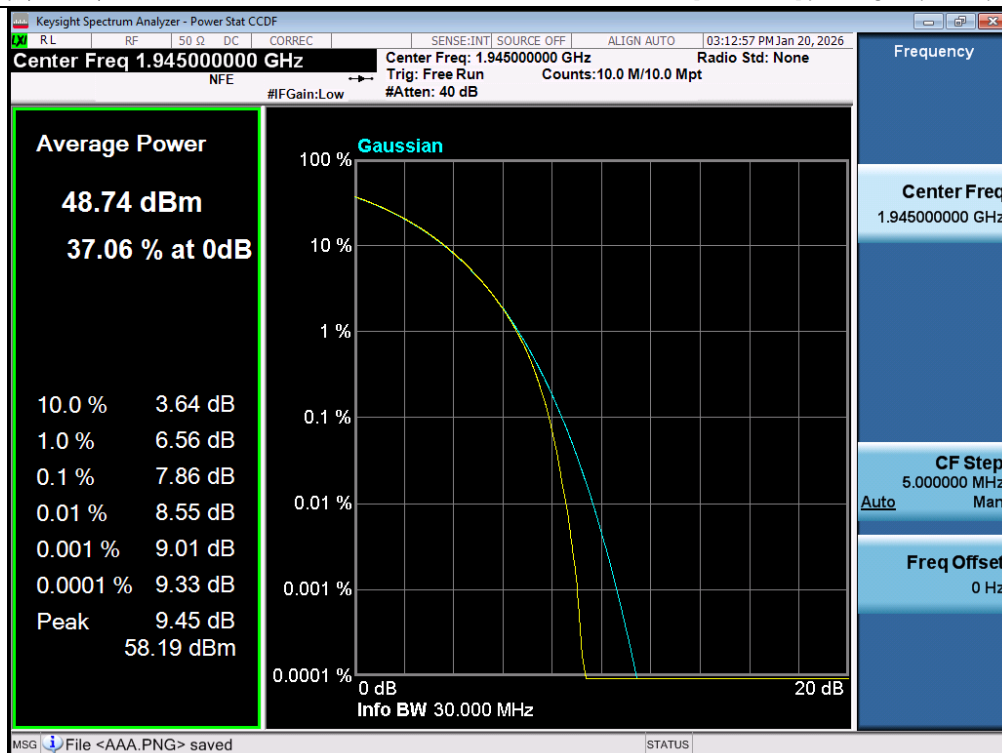
Antenna 3 / (4 Port) B66 DSS 20 MHz 1 Carrier / 16QAM / Low



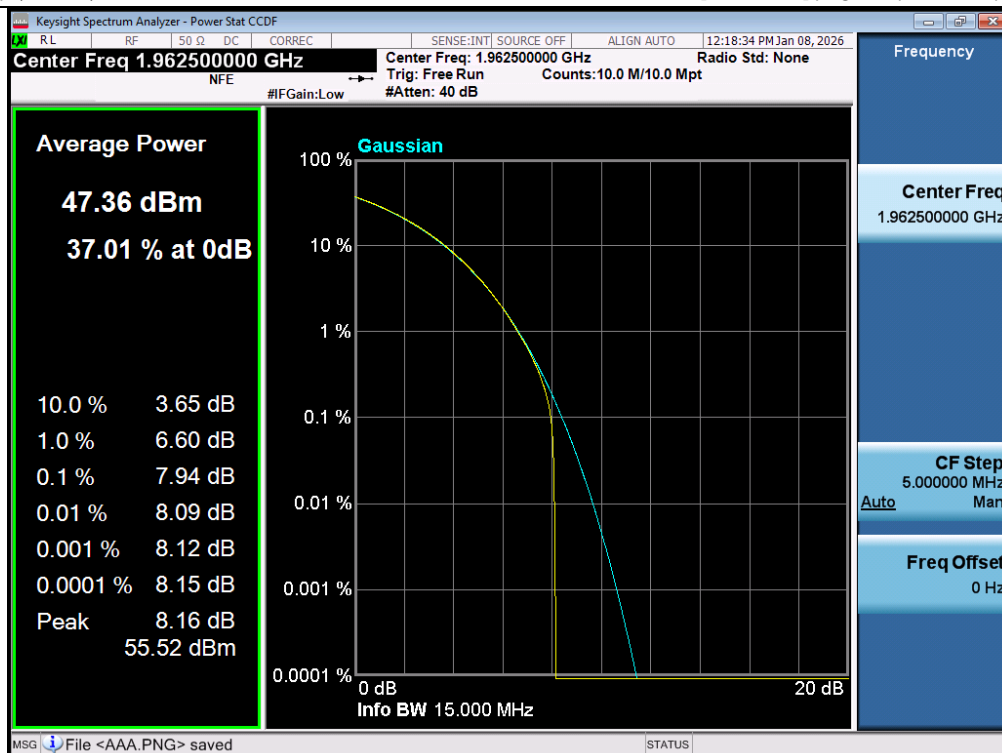
Antenna 2 / (4 Port) B25 DSS 10 MHz 1 Carrier + B25 LTE 5 MHz 1 Carrier [2 Carrier] / 256QAM / Low / Contiguous



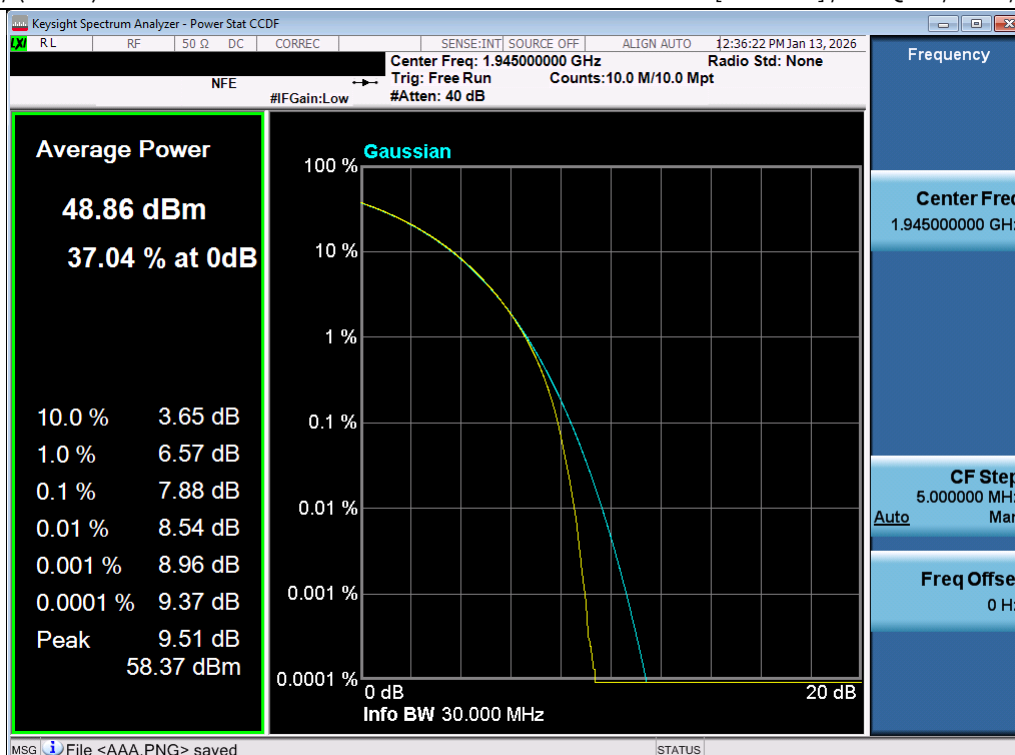
Antenna 2 / (4 Port) B25 DSS 20 MHz 1 Carrier + B25 LTE 10 MHz 1 Carrier [2 Carrier] / 256QAM / Low / Contiguous



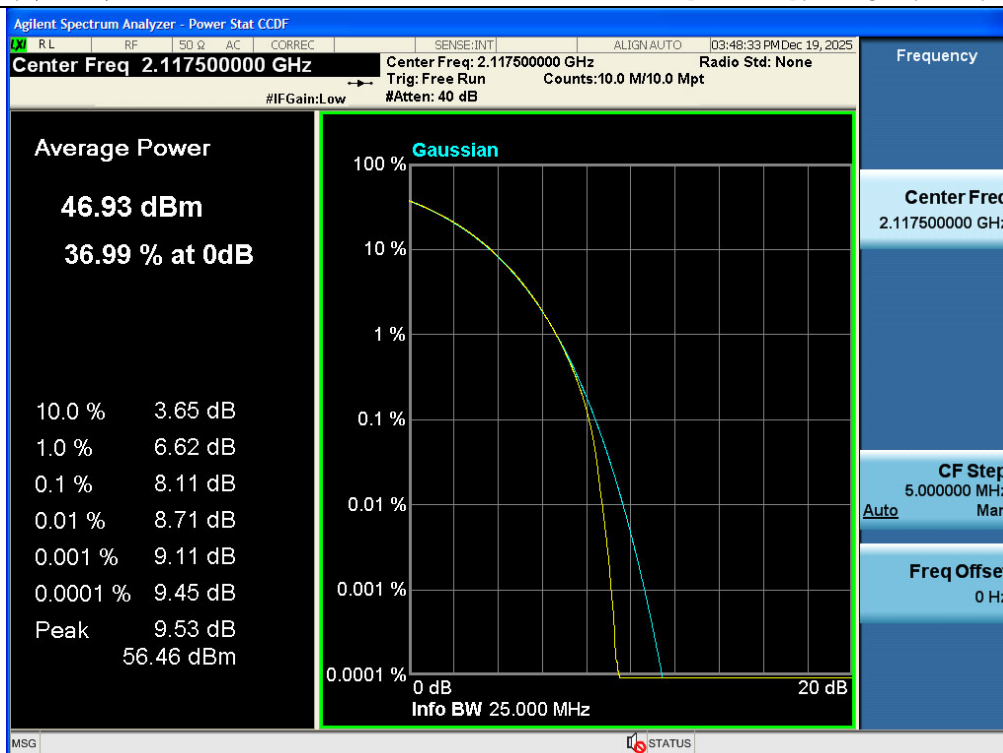
Antenna 2 / (4 Port) B25 DSS 10 MHz 1 Carrier + n25 5G NR 5 MHz 1 Carrier [2 Carrier] / QPSK / Middle / Contiguous



Antenna 2 / (4 Port) B25 DSS 10 MHz 1 Carrier + n25 5G NR 20 MHz 1 Carrier [2 Carrier] / 256QAM / Low / Contiguous



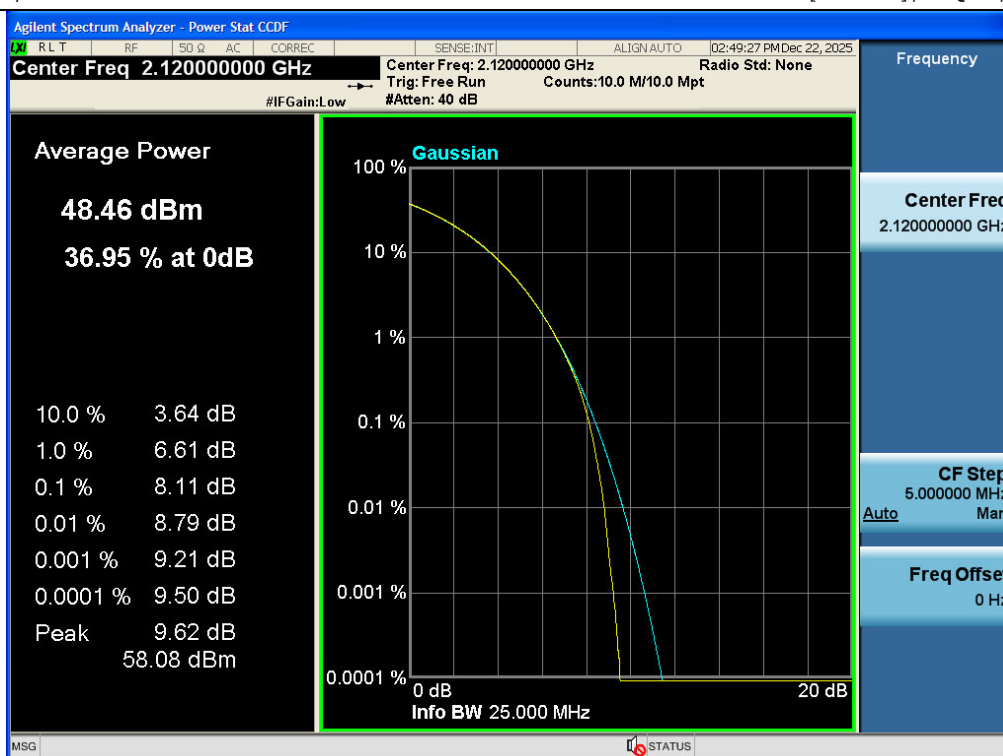
Antenna 3 / (4 Port) B66 DSS 10 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / 256QAM / Low / Contiguous



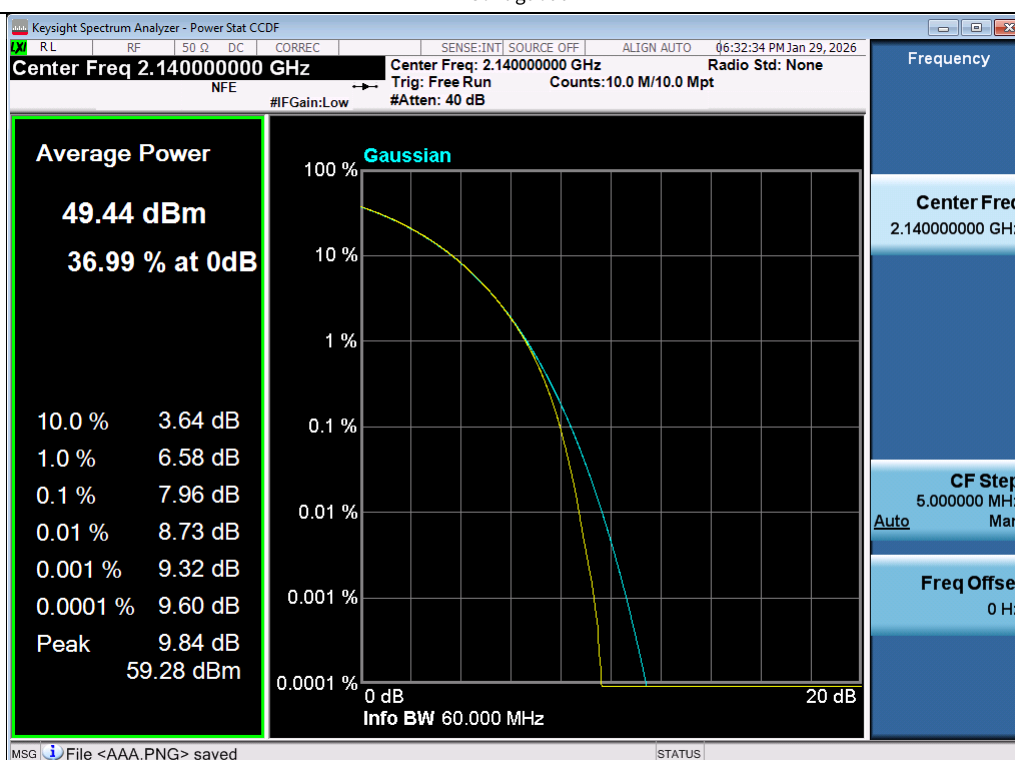
Antenna 2 / (4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 5 MHz 1 Carrier [2 Carrier] / 256QAM / High / Contiguous



Antenna 0 / (4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] / 16QAM / Low / Contiguous

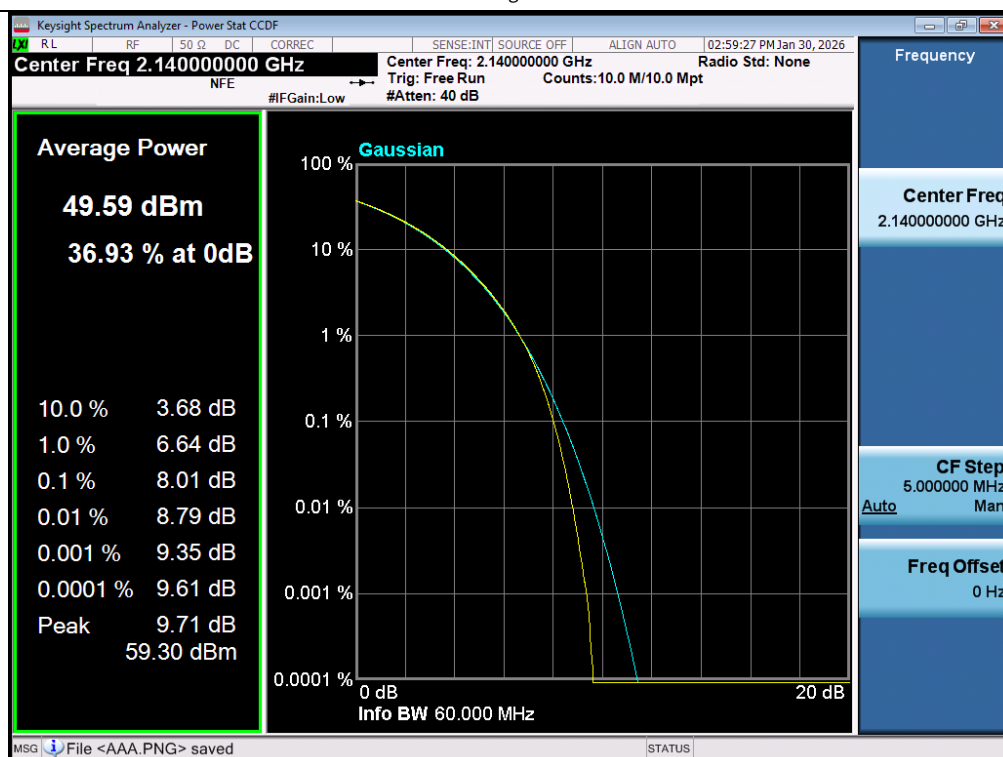


Antenna 3 / (4 Port) B66 DSS 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [4 Carrier] / QPSK / Low / Contiguous



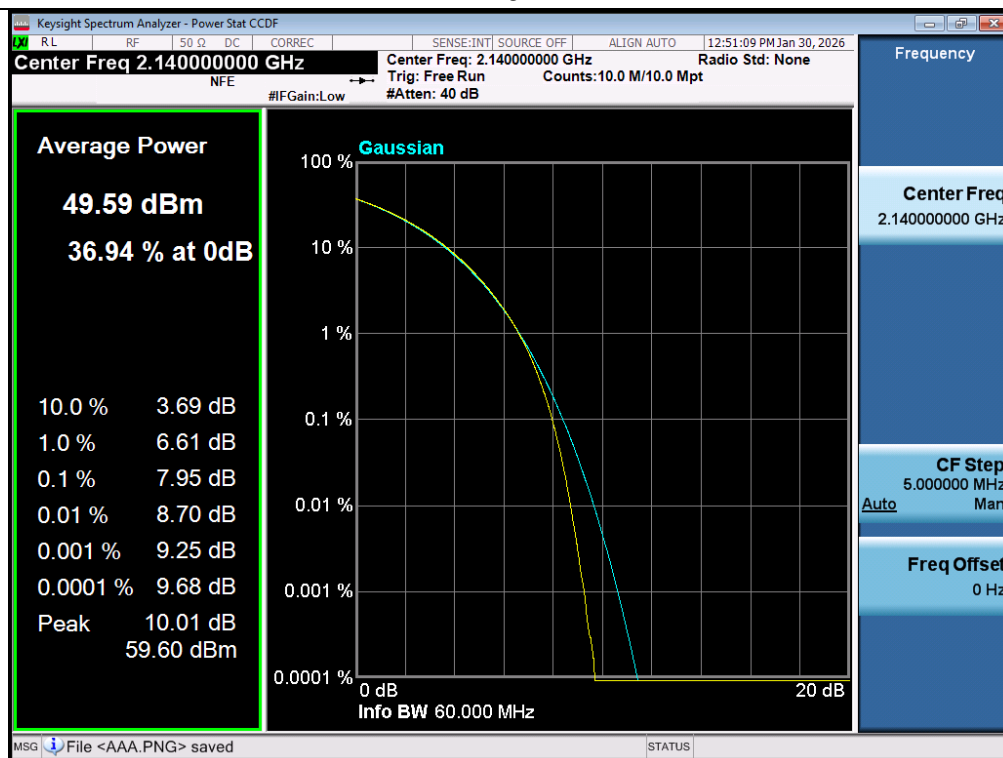
Antenna 2 / (4 Port) B66 DSS 20 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] / 256QAM / Low /

Contiguous

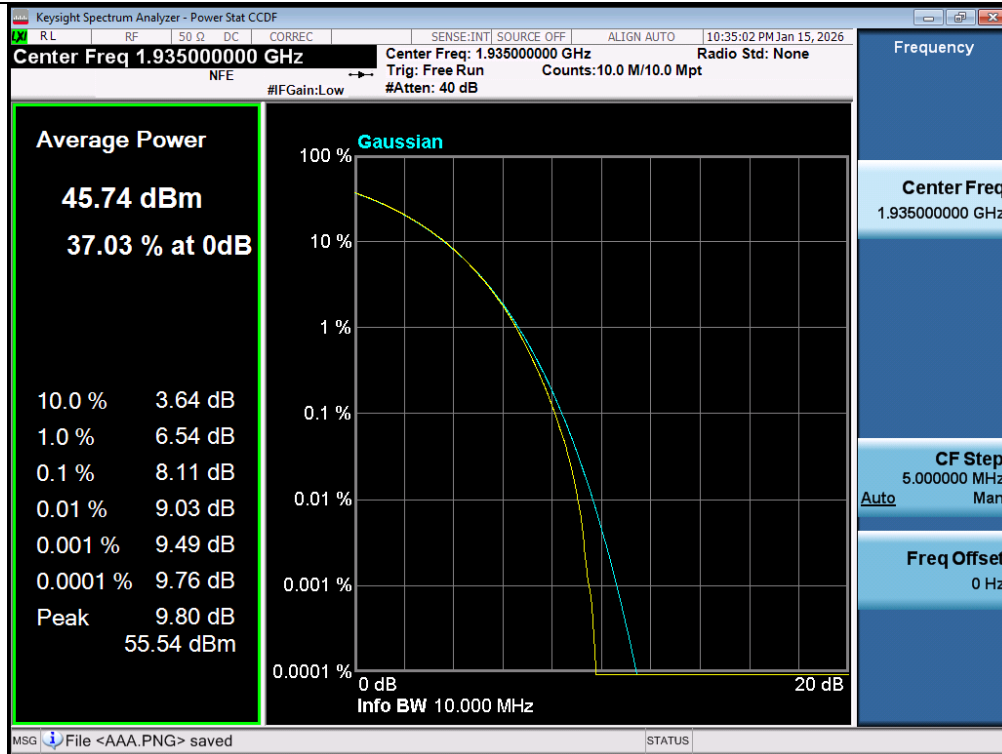


Antenna 1 / (4 Port) B66 DSS 15 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [4 Carrier] / 64QAM / Low /

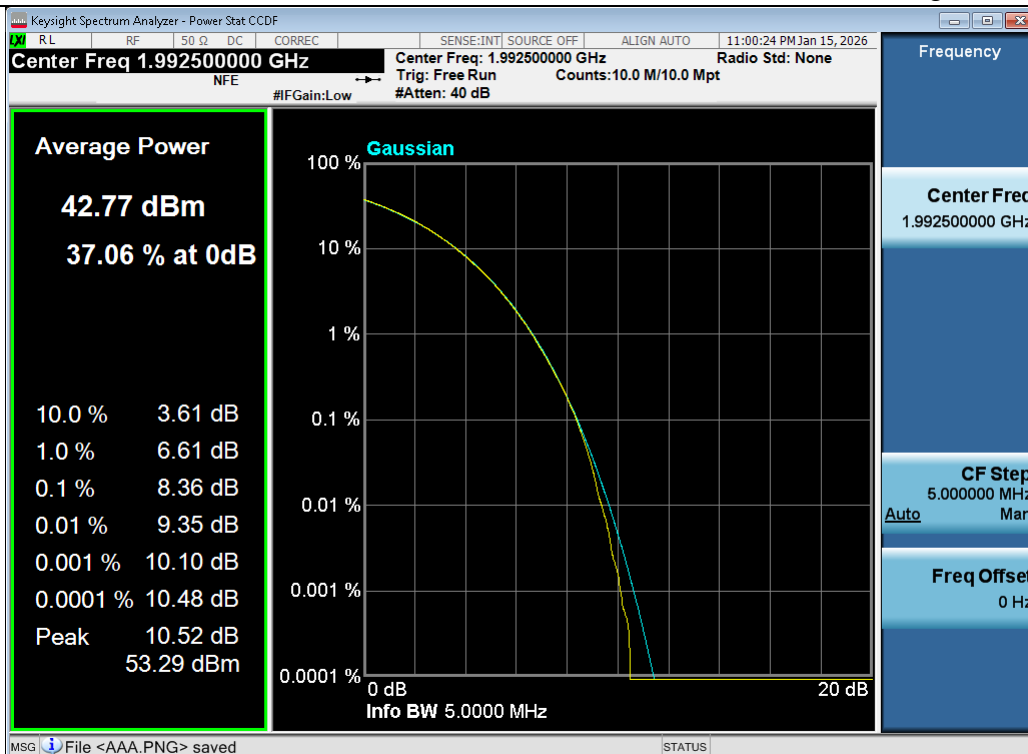
Contiguous



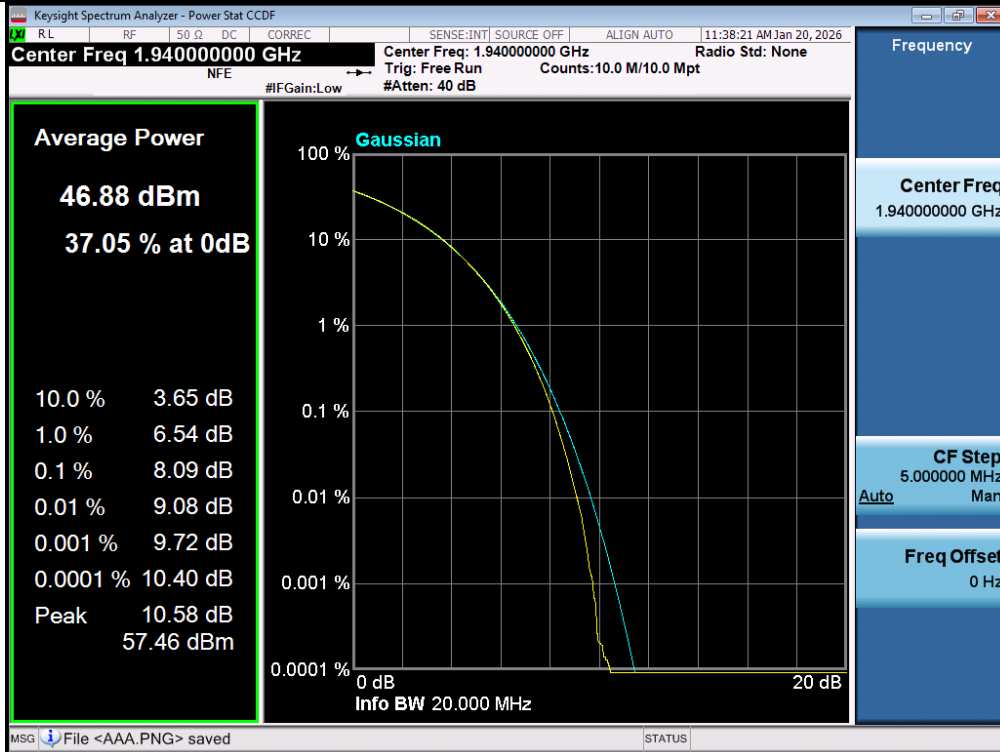
Antenna 2 / (4 Port) B25 DSS 10 MHz 1 Carrier + B25 LTE 5 MHz 1 Carrier [2 Carrier] / 256QAM / Low / Non-Contiguous



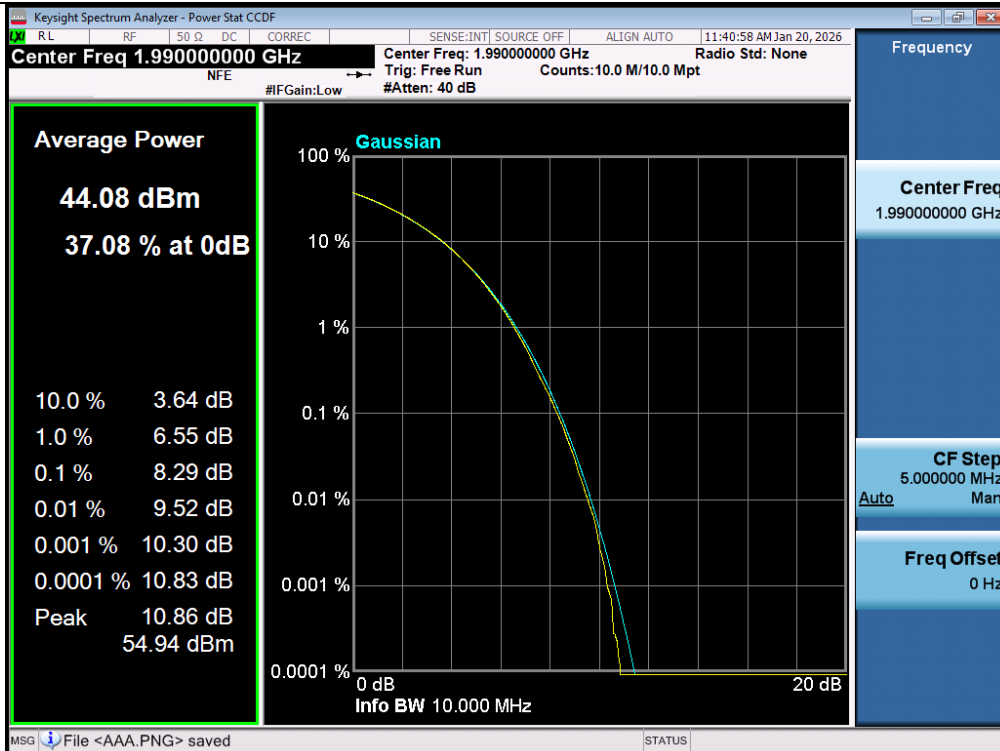
Antenna 2 / (4 Port) B25 DSS 10 MHz 1 Carrier + B25 LTE 5 MHz 1 Carrier [2 Carrier] / 16QAM / High / Non-Contiguous



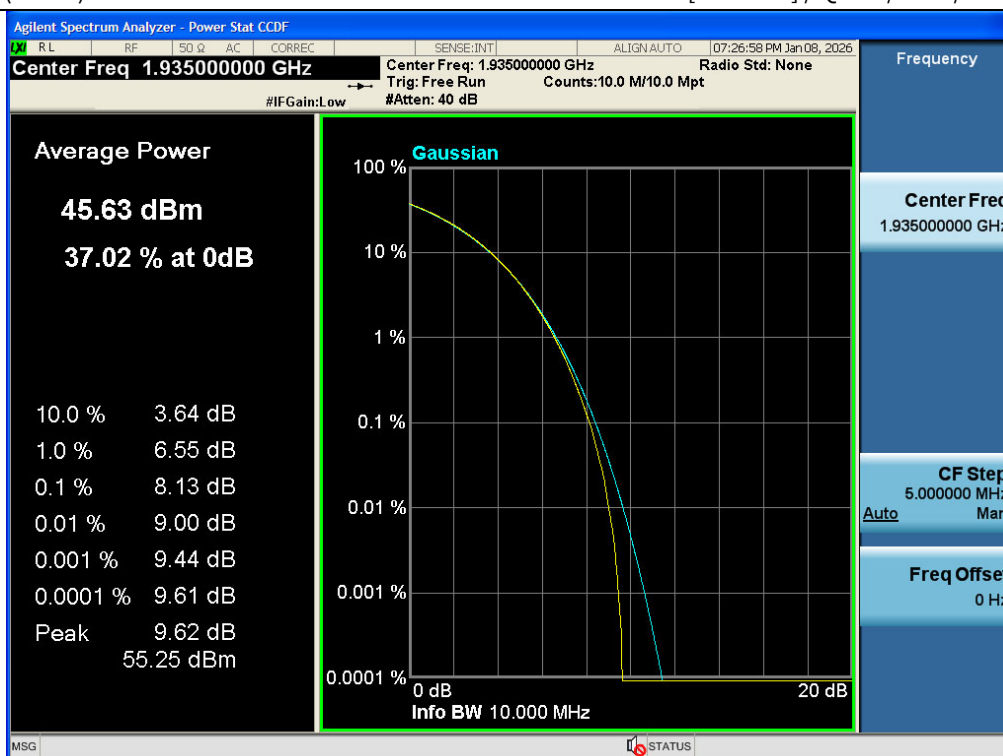
Antenna 2 / (4 Port) B25 DSS 20 MHz 1 Carrier + B25 LTE 10 MHz 1 Carrier [2 Carrier] / 256QAM / Low / Non-Contiguous



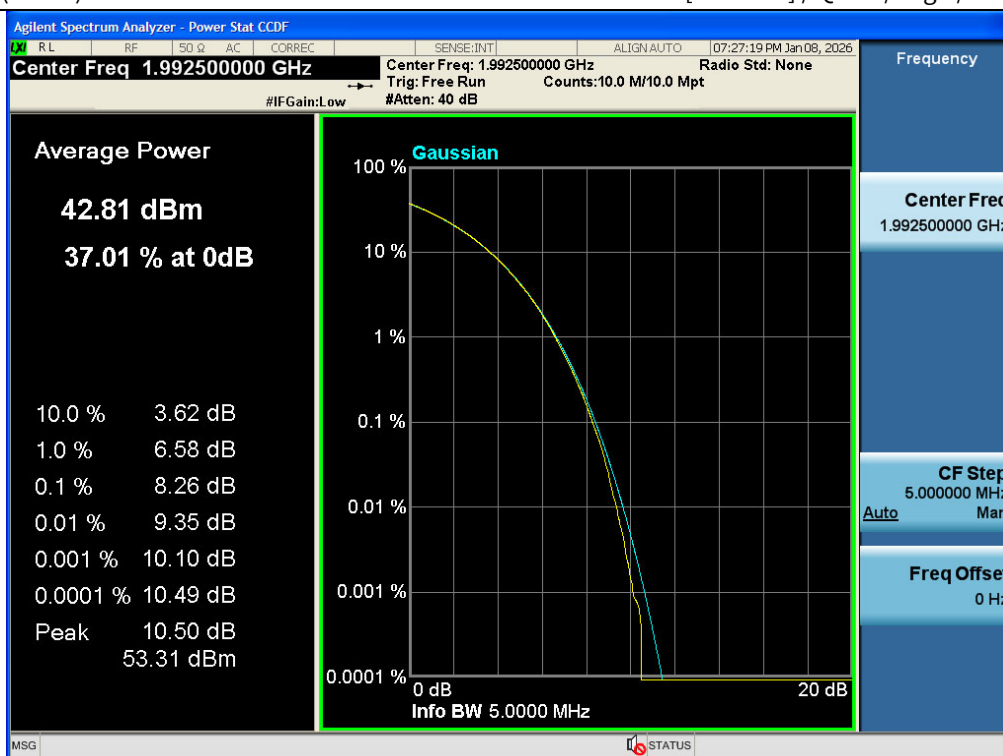
Antenna 3 / (4 Port) B25 DSS 20 MHz 1 Carrier + B25 LTE 10 MHz 1 Carrier [2 Carrier] / 256QAM / High / Non-Contiguous



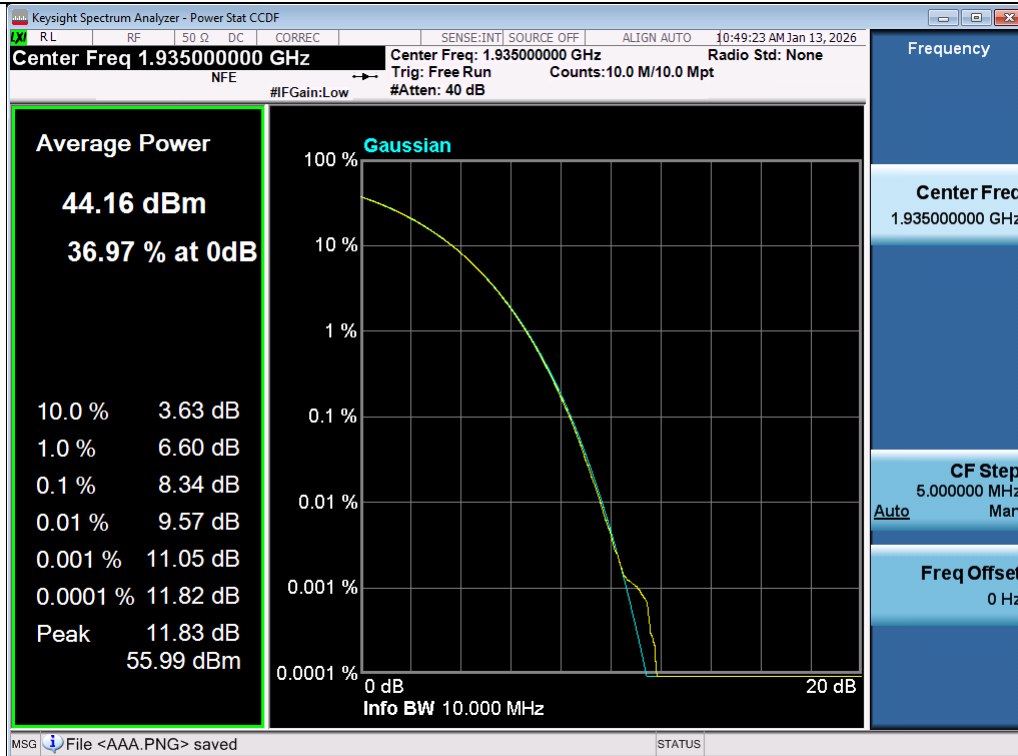
Antenna 2 / (4 Port) B25 DSS 10 MHz 1 Carrier + n25 5G NR 5 MHz 1 Carrier [2 Carrier] / QPSK / Low / Non-Contiguous



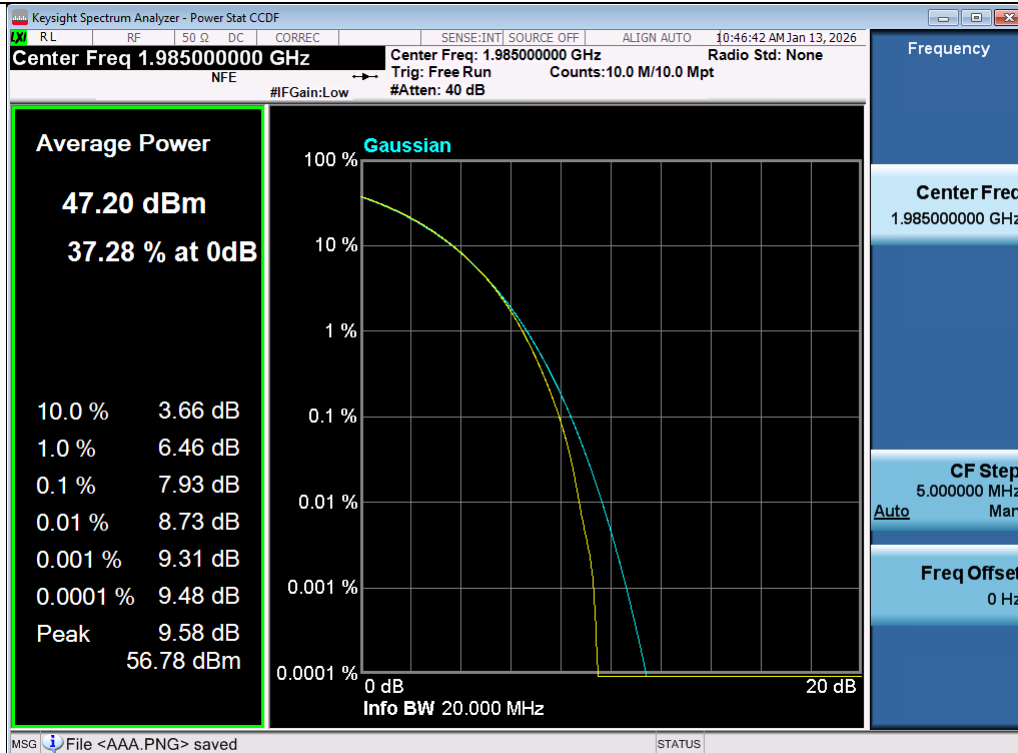
Antenna 2 / (4 Port) B25 DSS 10 MHz 1 Carrier + n25 5G NR 5 MHz 1 Carrier [2 Carrier] / QPSK / High / Non-Contiguous



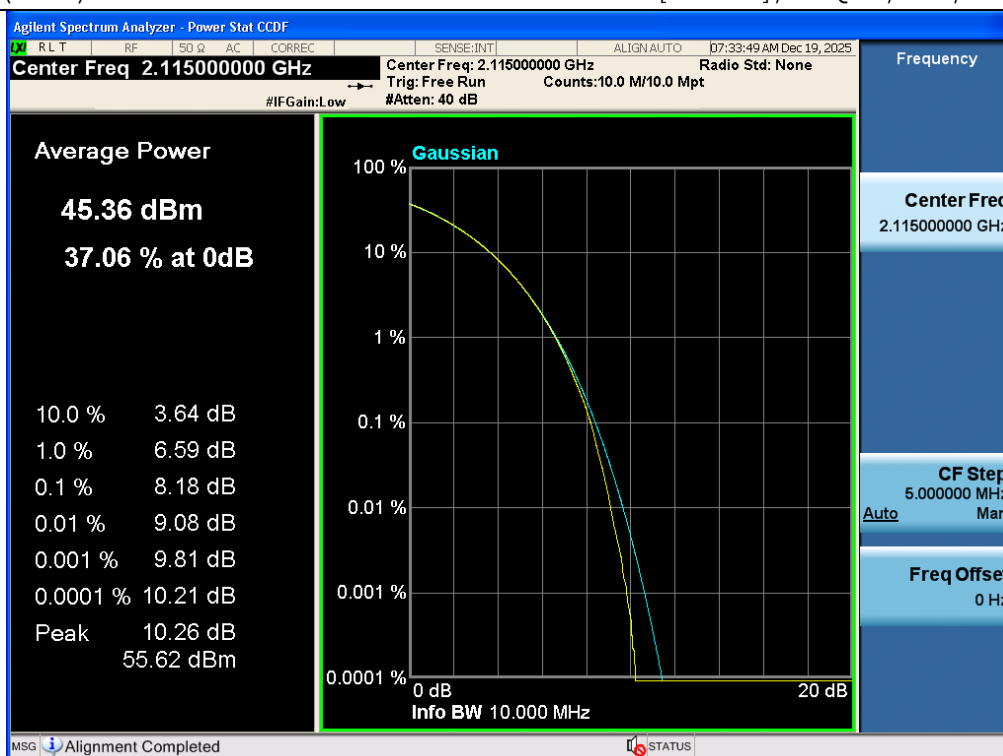
Antenna 2 / (4 Port) B25 DSS 10 MHz 1 Carrier + n25 5G NR 20 MHz 1 Carrier [2 Carrier] / QPSK / Low / Non-Contiguous



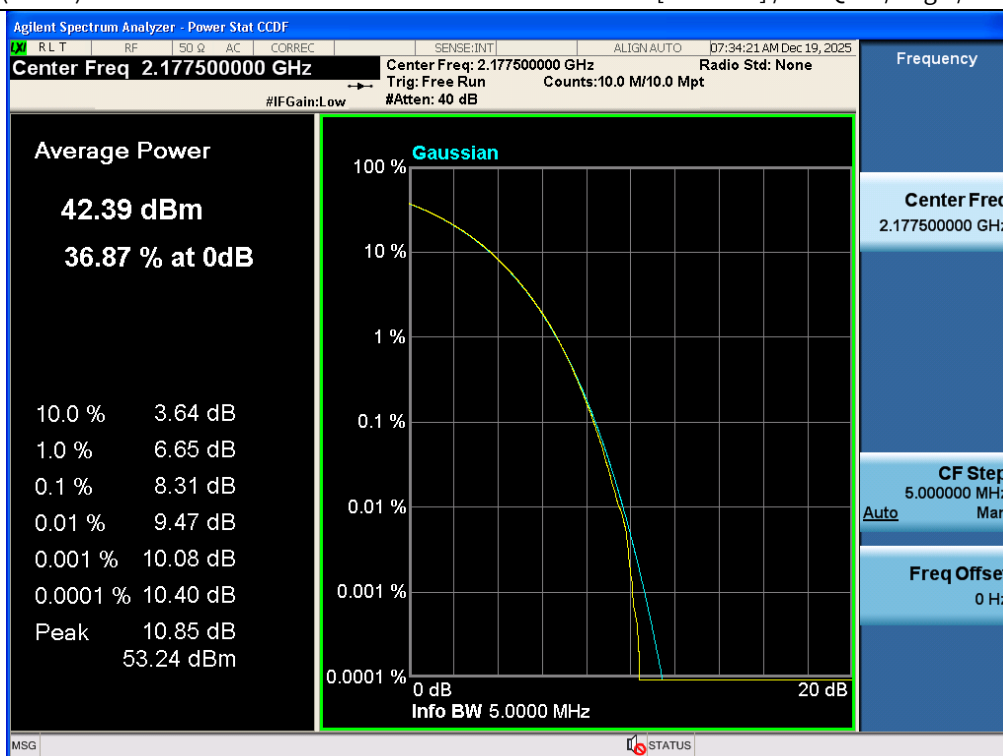
Antenna 2 / (4 Port) B25 DSS 10 MHz 1 Carrier + n25 5G NR 20 MHz 1 Carrier [2 Carrier] / QPSK / High / Non-Contiguous



Antenna 0 / (4 Port) B66 DSS 10 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / 256QAM / Low / Non-Contiguous



Antenna 0 / (4 Port) B66 DSS 10 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / 256QAM / High / Non-Contiguous



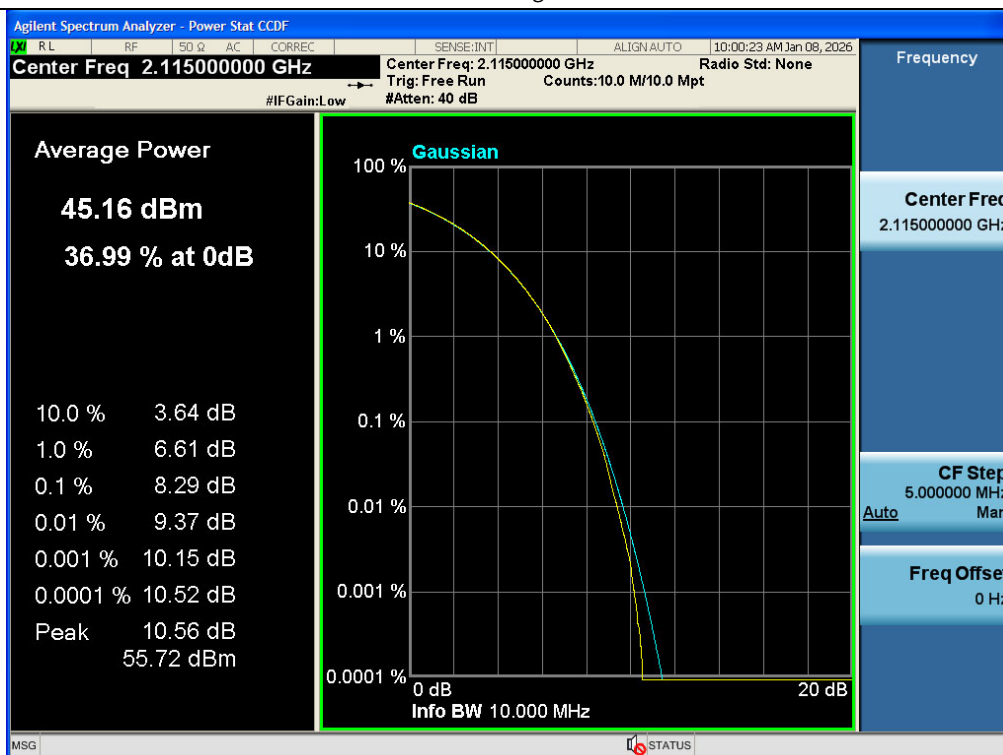
Antenna 2 / (4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 5 MHz 1 Carrier [2 Carrier] / 256QAM / Low / Non-Contiguous



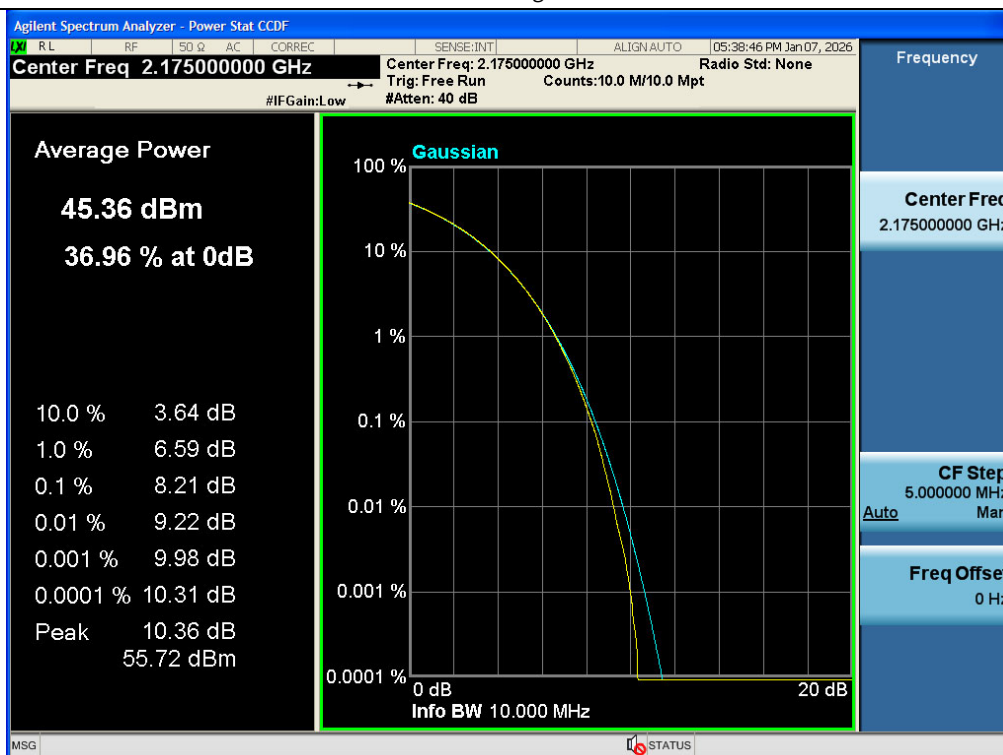
Antenna 1 / (4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 5 MHz 1 Carrier [2 Carrier] / QPSK / High / Non-Contiguous



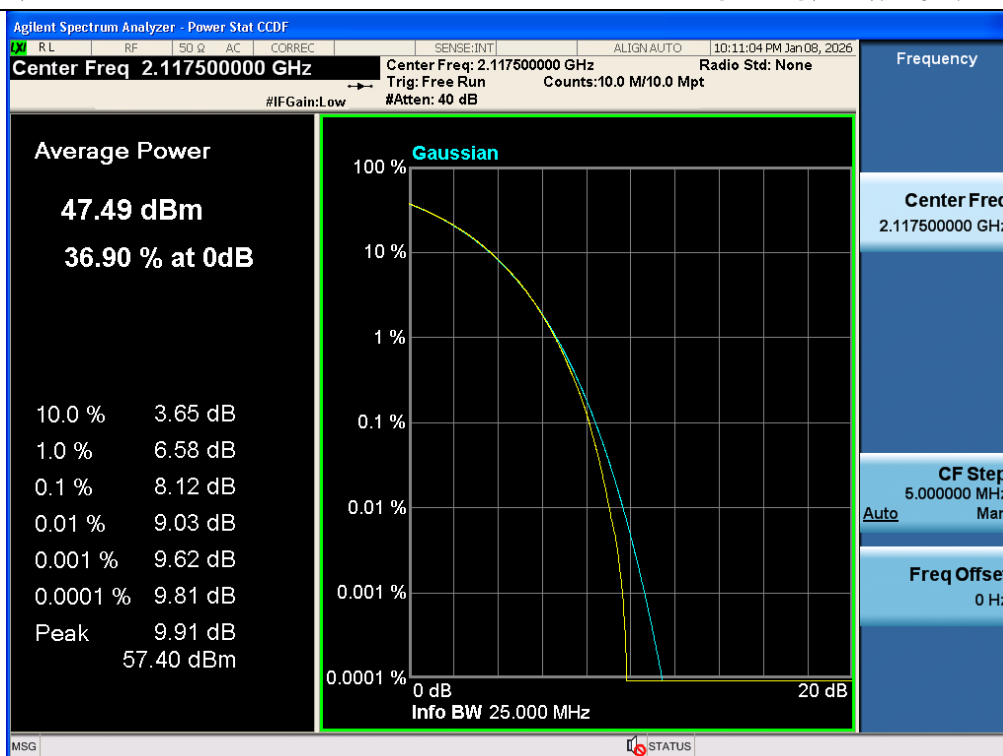
Antenna 0 / (4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C) / 64QAM / Low / Non-Contiguous



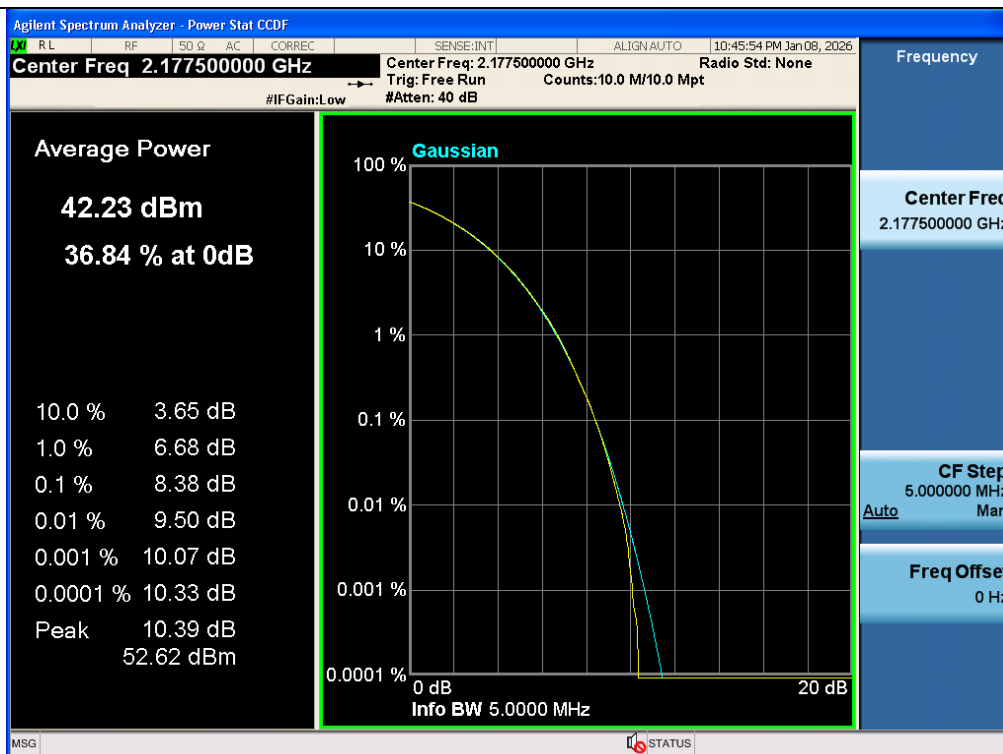
Antenna 3 / (4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C) / 256QAM / High / Non-Contiguous



Antenna 1 / (4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C) / 64QAM / Low / Non-Contiguous

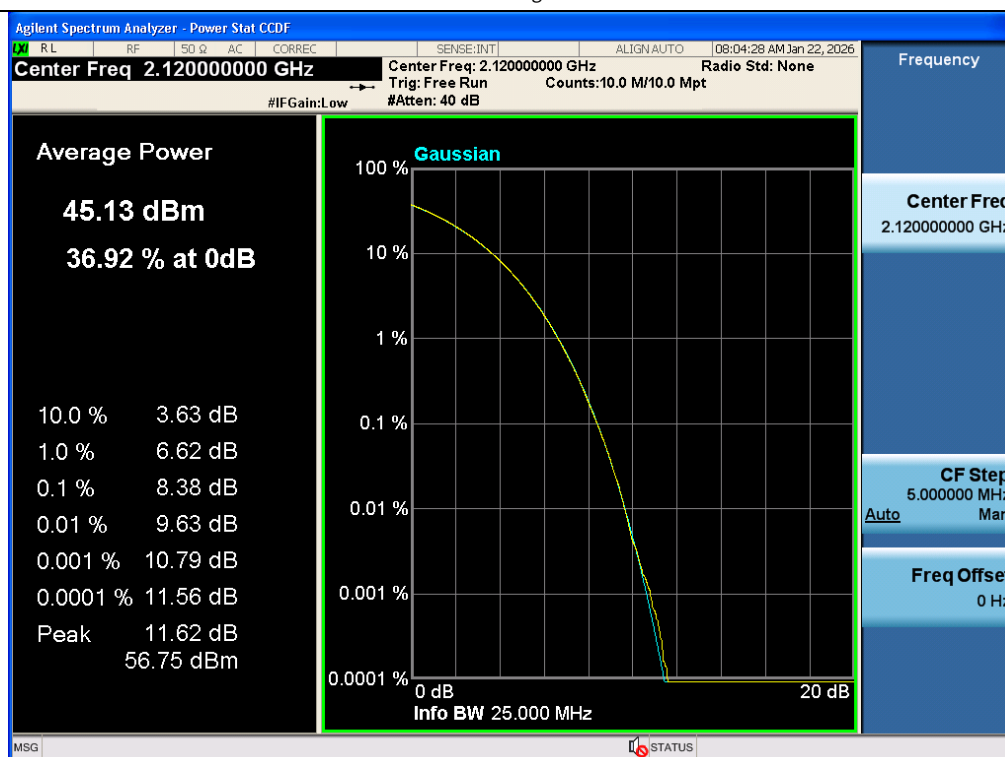


Antenna 0 / (4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C) / 256QAM / High / Non-Contiguous



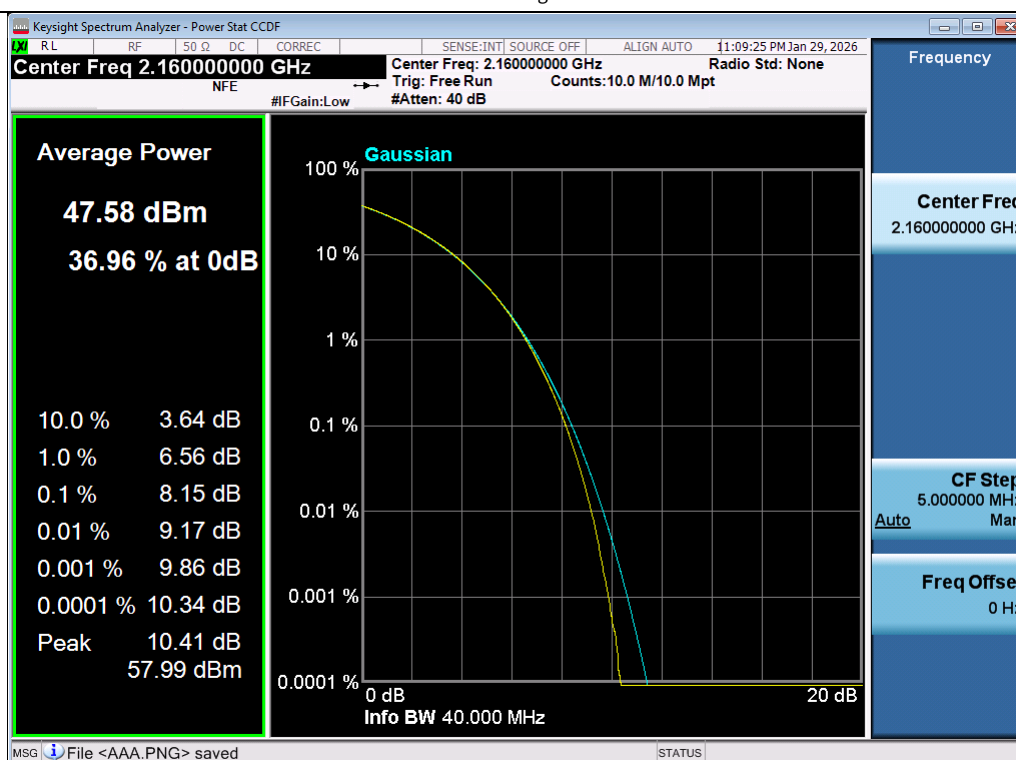
Antenna 1 / (4 Port) B66 DSS 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [4 Carrier] (1C+3C) / 16QAM / Low /

Non-Contiguous



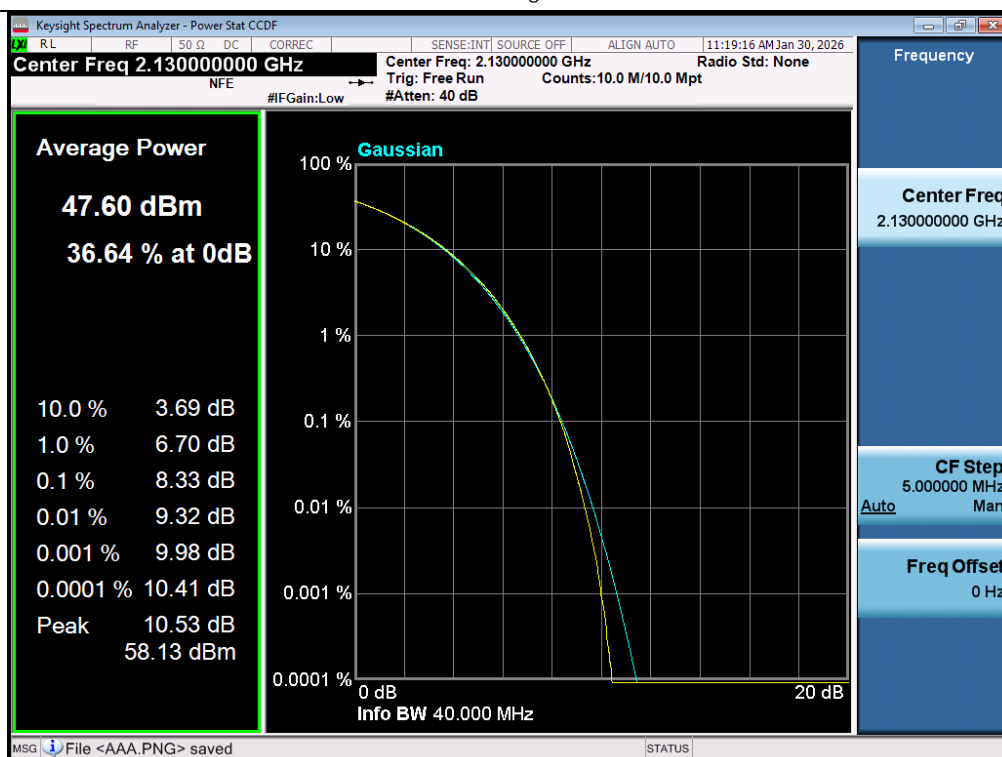
Antenna 3 / (4 Port) B66 DSS 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [4 Carrier] (1C+3C) / QPSK / High /

Non-Contiguous



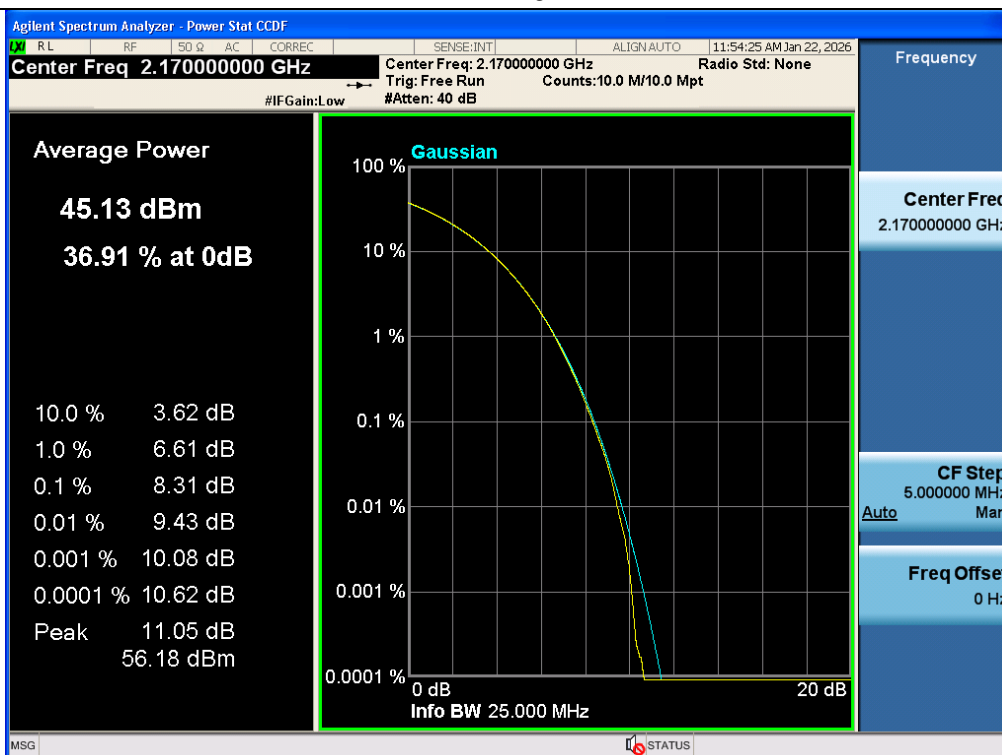
Antenna 0 / (4 Port) B66 DSS 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [4 Carrier] (3C+1C) / 16QAM / Low /

Non-Contiguous



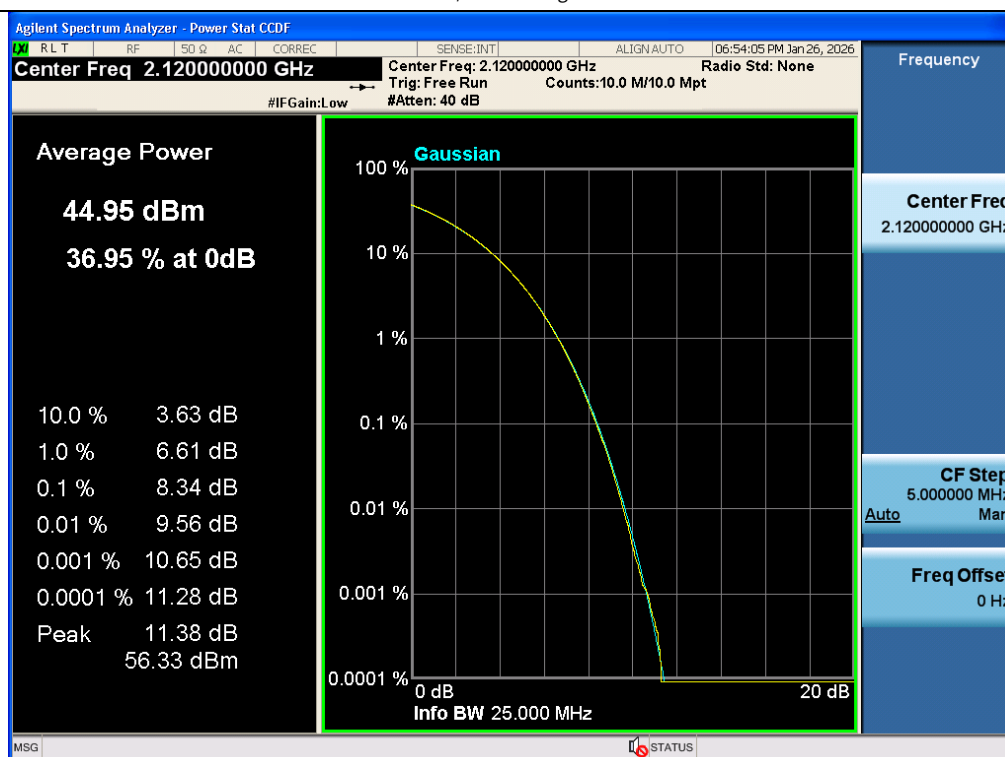
Antenna 2 / (4 Port) B66 DSS 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [4 Carrier] (3C+1C) / 64QAM / High

/ Non-Contiguous



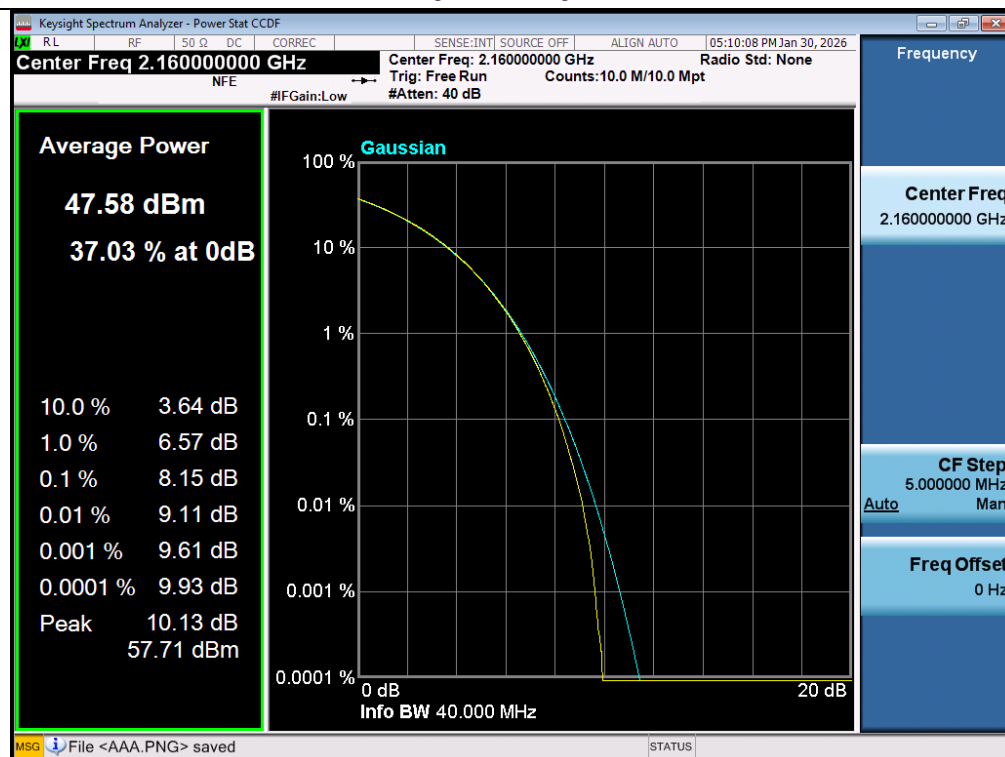
Antenna 1 / (4 Port) B66 DSS 20 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (1C+3C) / 16QAM /

Low / Non-Contiguous



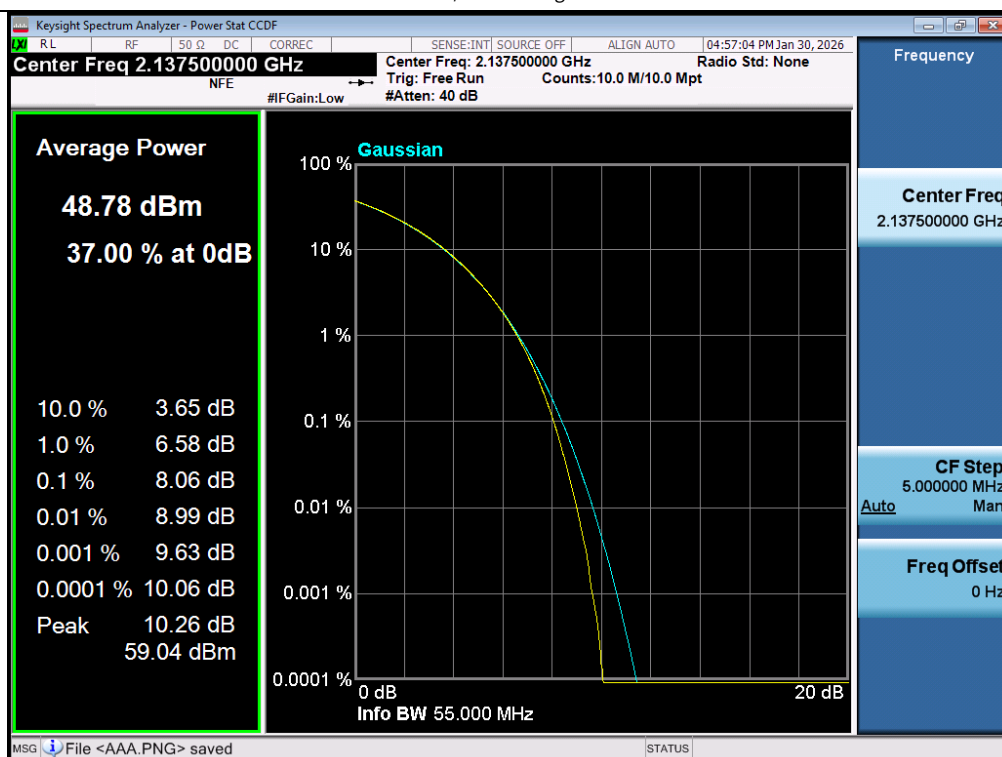
Antenna 3 / (4 Port) B66 DSS 20 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (1C+3C) / 256QAM /

High / Non-Contiguous



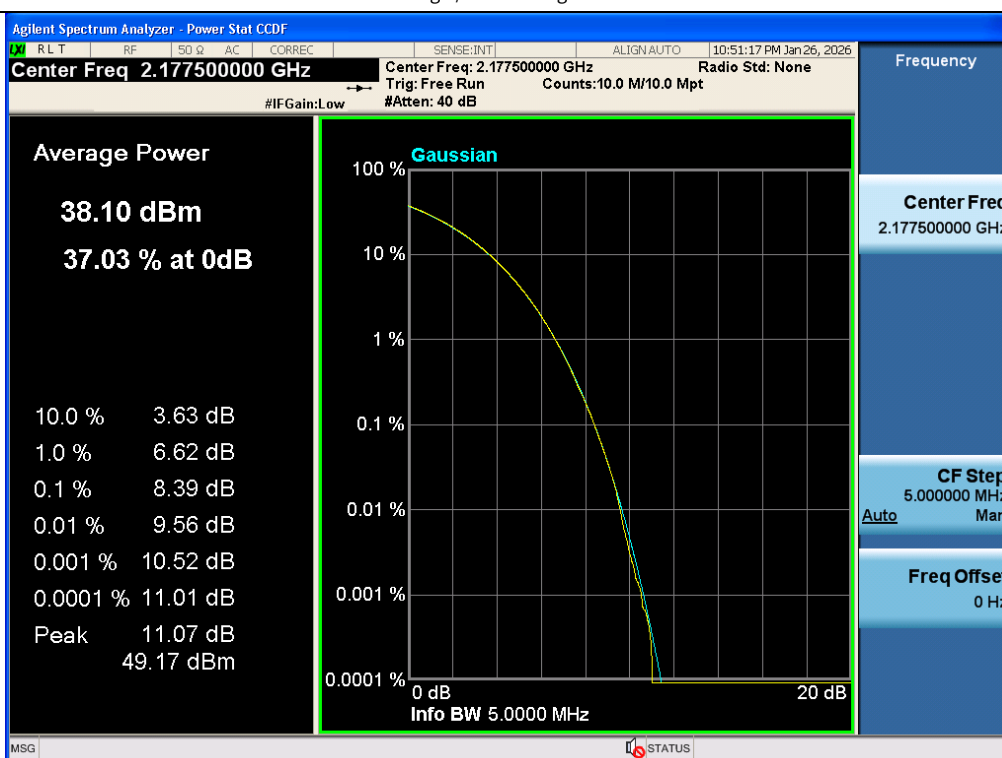
Antenna 1 / (4 Port) B66 DSS 20 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (3C+1C) / 256QAM /

Low / Non-Contiguous



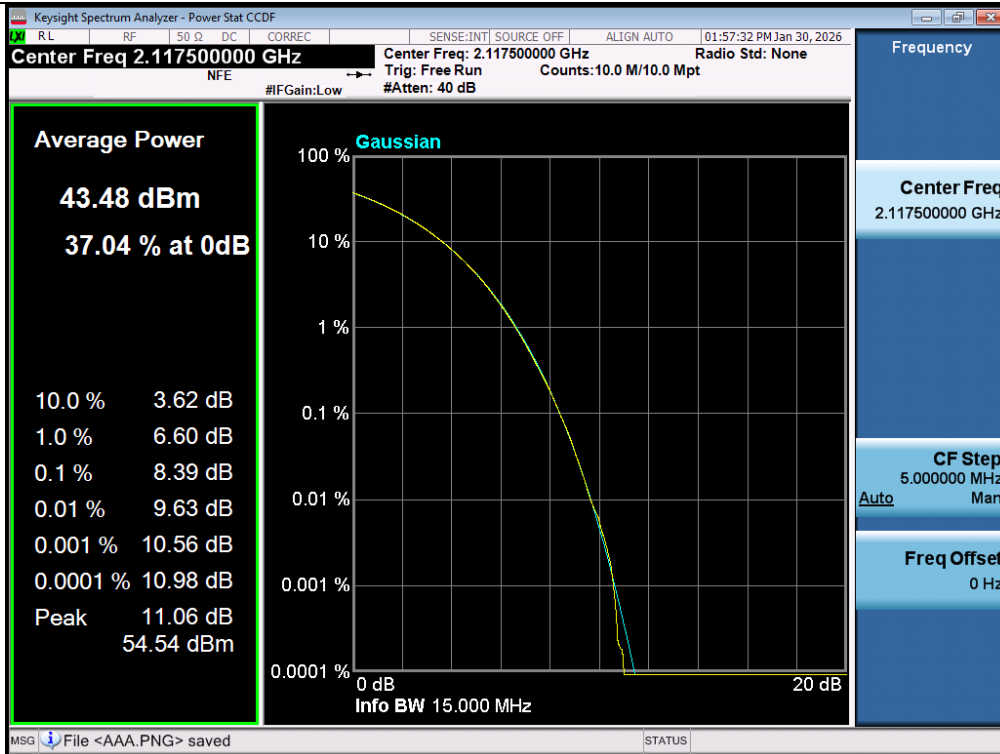
Antenna 3 / (4 Port) B66 DSS 20 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (3C+1C) / 64QAM /

High / Non-Contiguous



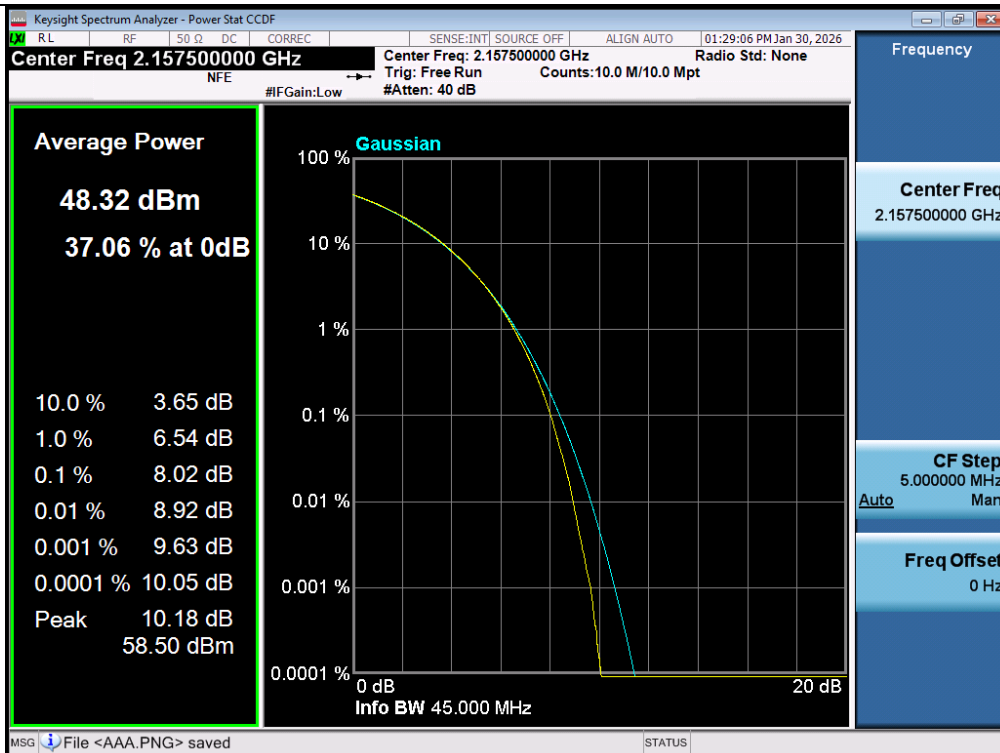
Antenna 0 / (4 Port) B66 DSS 15 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [4 Carrier] (1C+3C) / 64QAM

/ Low / Non-Contiguous



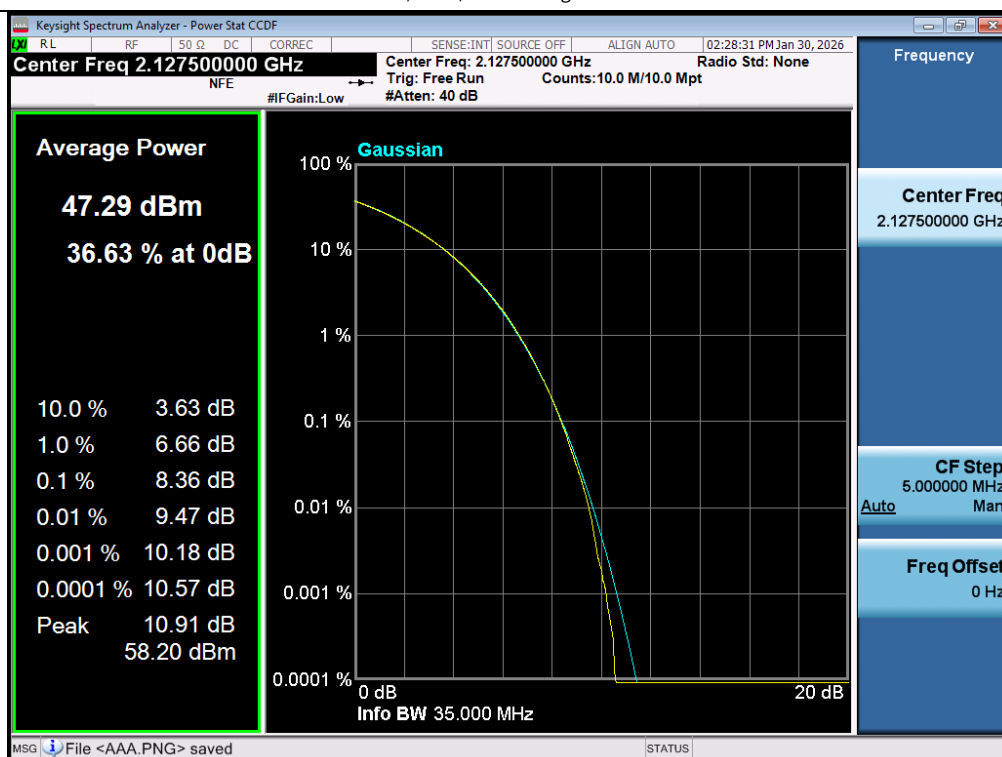
Antenna 3 / (4 Port) B66 DSS 15 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [4 Carrier] (1C+3C) / 16QAM

/ High / Non-Contiguous



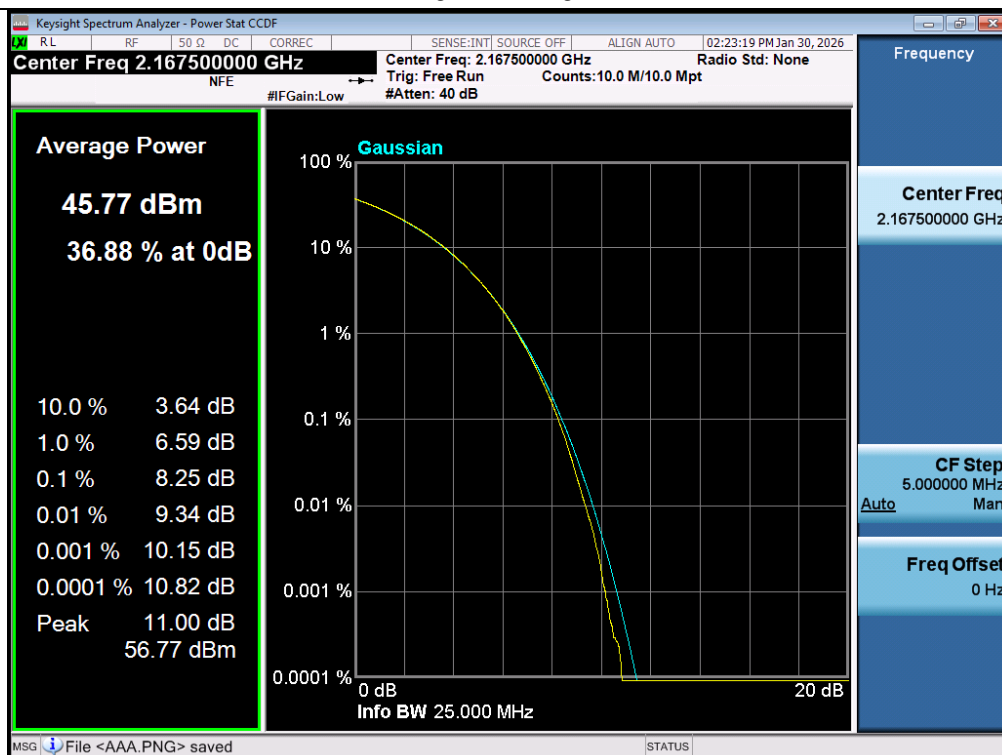
Antenna 1 / (4 Port) B66 DSS 15 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [4 Carrier] (3C+1C) / 64QAM

/ Low / Non-Contiguous



Antenna 1 / (4 Port) B66 DSS 15 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [4 Carrier] (3C+1C) / 64QAM

/ High / Non-Contiguous



5.3. OCCUPIED BANDWIDTH

Test Requirements:

§ 2.1049 Measurements required: Occupied bandwidth.

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured under the specified conditions of § 2.1049 (a) through (i) as applicable.

Test Procedures:

The measurement is performed in accordance with Section 5.4.3 and 5.4.4 of ANSI C63.26.

5.4.3 Occupied bandwidth—Relative measurement procedure

The OBW is measured as the width of the spectral envelope of the modulated signal, at an amplitude level reduced from a reference value by a specified ratio (or in decibels, a specified number of dB down from the reference value). The typical ratio for transmitters is -26 dB, corresponding to the 26 dB BW; however, other ratios can be specified. In this subclause, the ratio is designated by “ $-X$ dB.”

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- b) The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times$ RBW.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.
NOTE—Step a), step b), and step c) may require iteration to adjust within the specified tolerances.
- d) The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target “ $-X$ dB” requirement, i.e., if the requirement calls for measuring the -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.
- e) Set spectrum analyzer detection mode to peak, and the trace mode to max hold.
- f) Determine the reference value by either of the following:
 - 1) Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the Highest level of the displayed trace (this is the reference value).
 - 2) Set the EUT to transmit an unmodulated carrier. Set the spectrum analyzer marker to the level of the carrier.
- g) Determine the “ $-X$ dB amplitude” as equal to (Reference Value $- X$). Alternatively, this calculation can be performed on the spectrum analyzer using the delta-marker measurement function.
- h) If the reference value was determined using an unmodulated carrier, turn the EUT modulation on, then either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise the trace from step f) shall be used for step i).
- i) Place two markers, one at the lowest and the other at the Highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “ $-X$ dB amplitude” determined in step f). If a marker

is below this “–X dB amplitude” value it should be as close as possible to this value. The OBW is the positive frequency difference between the two markers. The spectral envelope can cross the “–X dB amplitude” at multiple points. The lowest or Highest frequency shall be selected as the frequencies that are the farthest away from the center frequency at which the spectral envelope crosses the “–X dB amplitude.”

- j) The OBW shall be reported by providing plot(s) of the measuring instrument display, to include markers depicting the relevant frequency and amplitude information (e.g., marker table). The frequency and amplitude axis and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

5.4.4 Occupied bandwidth—Power bandwidth (99%) measurement procedure

The OBW is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

The following procedure shall be used for measuring (99%) power bandwidth:

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (typically a span of $1.5 \times \text{OBW}$ is sufficient).
- b) The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times \text{RBW}$.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.
NOTE—Step a), step b), and step c) may require iteration to adjust within the specified tolerances.
- d) Set the detection mode to peak, and the trace mode to max-hold.
- e) If the instrument does not have a 99% OBW function, recover the trace data points and sum directly in linear power terms. Place the recovered amplitude data points, beginning at the lowest frequency, in a running sum until 0.5% of the total is reached. Record that frequency as the lower OBW frequency. Repeat the process until 99.5% of the total is reached and record that frequency as the upper OBW frequency. The 99% power OBW can be determined by computing the difference these two frequencies.
- f) The OBW shall be reported and plot(s) of the measuring instrument display shall be provided with the test report. The frequency and amplitude axis and scale shall be clearly labeled. Tabular data can be reported in addition to the plot(s).

Note: The results of the Occupied Bandwidth tests show a similar trend across all ports; therefore, only the worst-case plots are attached.

Test Results:

Tabular Data of RF Occupied Bandwidth

(4 Port) B25 DSS 10 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	1 935.00	9.3217
		Middle	1 962.50	9.3212
		High	1 990.00	9.2821
	16QAM	Low	1 935.00	9.3057
		Middle	1 962.50	9.3002
		High	1 990.00	9.3105
	64QAM	Low	1 935.00	9.2886
		Middle	1 962.50	9.3196
		High	1 990.00	9.3012
	256QAM	Low	1 935.00	9.2997
		Middle	1 962.50	9.3376
		High	1 990.00	9.3318
1	QPSK	Low	1 935.00	9.2572
		Middle	1 962.50	9.3067
		High	1 990.00	9.2947
	16QAM	Low	1 935.00	9.2645
		Middle	1 962.50	9.2974
		High	1 990.00	9.2931
	64QAM	Low	1 935.00	9.2873
		Middle	1 962.50	9.3292
		High	1 990.00	9.3044
	256QAM	Low	1 935.00	9.3203
		Middle	1 962.50	9.2828
		High	1 990.00	9.3084
2	QPSK	Low	1 935.00	9.3248
		Middle	1 962.50	9.3129
		High	1 990.00	9.2995
	16QAM	Low	1 935.00	9.2850
		Middle	1 962.50	9.2830
		High	1 990.00	9.2765
	64QAM	Low	1 935.00	9.3199
		Middle	1 962.50	9.2896
		High	1 990.00	9.3068
	256QAM	Low	1 935.00	9.2764
		Middle	1 962.50	9.3159
		High	1 990.00	9.3187
3	QPSK	Low	1 935.00	9.2782
		Middle	1 962.50	9.3202
		High	1 990.00	9.2954
	16QAM	Low	1 935.00	9.2885
		Middle	1 962.50	9.2918
		High	1 990.00	9.2986
	64QAM	Low	1 935.00	9.3195
		Middle	1 962.50	9.2936
		High	1 990.00	9.3251
	256QAM	Low	1 935.00	9.3241
		Middle	1 962.50	9.3018
		High	1 990.00	9.3335

(4 Port) B25 DSS 15 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	1 937.50	14.083
		Middle	1 962.50	14.115
		High	1 987.50	14.122
	16QAM	Low	1 937.50	14.142
		Middle	1 962.50	14.119
		High	1 987.50	14.123
	64QAM	Low	1 937.50	14.117
		Middle	1 962.50	14.155
		High	1 987.50	14.108
	256QAM	Low	1 937.50	14.146
		Middle	1 962.50	14.125
		High	1 987.50	14.110
1	QPSK	Low	1 937.50	14.140
		Middle	1 962.50	14.145
		High	1 987.50	14.139
	16QAM	Low	1 937.50	14.094
		Middle	1 962.50	14.078
		High	1 987.50	14.144
	64QAM	Low	1 937.50	14.098
		Middle	1 962.50	14.109
		High	1 987.50	14.167
	256QAM	Low	1 937.50	14.129
		Middle	1 962.50	14.116
		High	1 987.50	14.197
2	QPSK	Low	1 937.50	14.126
		Middle	1 962.50	14.131
		High	1 987.50	14.126
	16QAM	Low	1 937.50	14.074
		Middle	1 962.50	14.087
		High	1 987.50	14.131
	64QAM	Low	1 937.50	14.070
		Middle	1 962.50	14.118
		High	1 987.50	14.121
	256QAM	Low	1 937.50	14.092
		Middle	1 962.50	14.138
		High	1 987.50	14.109
3	QPSK	Low	1 937.50	14.134
		Middle	1 962.50	14.112
		High	1 987.50	14.121
	16QAM	Low	1 937.50	14.084
		Middle	1 962.50	14.101
		High	1 987.50	14.112
	64QAM	Low	1 937.50	14.104
		Middle	1 962.50	14.111
		High	1 987.50	14.127
	256QAM	Low	1 937.50	14.126
		Middle	1 962.50	14.126
		High	1 987.50	14.147

(4 Port) B25 DSS 20 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	1 940.00	18.929
		Middle	1 962.50	18.957
		High	1 985.00	18.959
	16QAM	Low	1 940.00	18.906
		Middle	1 962.50	18.957
		High	1 985.00	18.900
	64QAM	Low	1 940.00	18.939
		Middle	1 962.50	18.962
		High	1 985.00	18.917
	256QAM	Low	1 940.00	19.001
		Middle	1 962.50	18.950
		High	1 985.00	18.985
1	QPSK	Low	1 940.00	18.897
		Middle	1 962.50	18.923
		High	1 985.00	18.938
	16QAM	Low	1 940.00	18.926
		Middle	1 962.50	18.967
		High	1 985.00	18.958
	64QAM	Low	1 940.00	18.902
		Middle	1 962.50	18.925
		High	1 985.00	18.954
	256QAM	Low	1 940.00	18.903
		Middle	1 962.50	18.929
		High	1 985.00	18.995
2	QPSK	Low	1 940.00	18.924
		Middle	1 962.50	18.890
		High	1 985.00	18.959
	16QAM	Low	1 940.00	18.909
		Middle	1 962.50	18.904
		High	1 985.00	18.904
	64QAM	Low	1 940.00	18.929
		Middle	1 962.50	18.927
		High	1 985.00	18.948
	256QAM	Low	1 940.00	18.963
		Middle	1 962.50	18.923
		High	1 985.00	18.912
3	QPSK	Low	1 940.00	18.966
		Middle	1 962.50	18.928
		High	1 985.00	19.007
	16QAM	Low	1 940.00	18.913
		Middle	1 962.50	18.964
		High	1 985.00	18.937
	64QAM	Low	1 940.00	18.938
		Middle	1 962.50	18.939
		High	1 985.00	18.947
	256QAM	Low	1 940.00	18.933
		Middle	1 962.50	18.921
		High	1 985.00	18.969

(4 Port) B66 DSS 10 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2 115.00	9.3016
		Middle	2 145.00	9.3163
		High	2 175.00	9.3094
	16QAM	Low	2 115.00	9.2666
		Middle	2 145.00	9.2979
		High	2 175.00	9.2938
	64QAM	Low	2 115.00	9.2810
		Middle	2 145.00	9.2841
		High	2 175.00	9.3092
	256QAM	Low	2 115.00	9.2834
		Middle	2 145.00	9.3155
		High	2 175.00	9.3222
1	QPSK	Low	2 115.00	9.2889
		Middle	2 145.00	9.3105
		High	2 175.00	9.2889
	16QAM	Low	2 115.00	9.2806
		Middle	2 145.00	9.2841
		High	2 175.00	9.3076
	64QAM	Low	2 115.00	9.2807
		Middle	2 145.00	9.3185
		High	2 175.00	9.2982
	256QAM	Low	2 115.00	9.2971
		Middle	2 145.00	9.3003
		High	2 175.00	9.2837
2	QPSK	Low	2 115.00	9.2733
		Middle	2 145.00	9.2969
		High	2 175.00	9.2856
	16QAM	Low	2 115.00	9.2588
		Middle	2 145.00	9.2940
		High	2 175.00	9.2856
	64QAM	Low	2 115.00	9.2811
		Middle	2 145.00	9.2947
		High	2 175.00	9.2839
	256QAM	Low	2 115.00	9.2840
		Middle	2 145.00	9.2755
		High	2 175.00	9.3196
3	QPSK	Low	2 115.00	9.2988
		Middle	2 145.00	9.2887
		High	2 175.00	9.3044
	16QAM	Low	2 115.00	9.2674
		Middle	2 145.00	9.2849
		High	2 175.00	9.2849
	64QAM	Low	2 115.00	9.2821
		Middle	2 145.00	9.3034
		High	2 175.00	9.2964
	256QAM	Low	2 115.00	9.2932
		Middle	2 145.00	9.2957
		High	2 175.00	9.2972

(4 Port) B66 DSS 15 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2 117.50	14.084
		Middle	2 145.00	14.132
		High	2 172.50	14.110
	16QAM	Low	2 117.50	14.091
		Middle	2 145.00	14.107
		High	2 172.50	14.119
	64QAM	Low	2 117.50	14.098
		Middle	2 145.00	14.103
		High	2 172.50	14.132
	256QAM	Low	2 117.50	14.094
		Middle	2 145.00	14.175
		High	2 172.50	14.169
1	QPSK	Low	2 117.50	14.057
		Middle	2 145.00	14.150
		High	2 172.50	14.133
	16QAM	Low	2 117.50	14.046
		Middle	2 145.00	14.127
		High	2 172.50	14.118
	64QAM	Low	2 117.50	14.091
		Middle	2 145.00	14.140
		High	2 172.50	14.134
	256QAM	Low	2 117.50	14.111
		Middle	2 145.00	14.138
		High	2 172.50	14.104
2	QPSK	Low	2 117.50	14.071
		Middle	2 145.00	14.128
		High	2 172.50	14.106
	16QAM	Low	2 117.50	14.045
		Middle	2 145.00	14.153
		High	2 172.50	14.121
	64QAM	Low	2 117.50	14.076
		Middle	2 145.00	14.132
		High	2 172.50	14.113
	256QAM	Low	2 117.50	14.072
		Middle	2 145.00	14.130
		High	2 172.50	14.114
3	QPSK	Low	2 117.50	14.082
		Middle	2 145.00	14.122
		High	2 172.50	14.107
	16QAM	Low	2 117.50	14.065
		Middle	2 145.00	14.134
		High	2 172.50	14.134
	64QAM	Low	2 117.50	14.063
		Middle	2 145.00	14.139
		High	2 172.50	14.106
	256QAM	Low	2 117.50	14.092
		Middle	2 145.00	14.168
		High	2 172.50	14.121

(4 Port) B66 DSS 20 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2 120.00	18.975
		Middle	2 145.00	18.978
		High	2 170.00	18.970
	16QAM	Low	2 120.00	18.872
		Middle	2 145.00	18.969
		High	2 170.00	18.930
	64QAM	Low	2 120.00	18.914
		Middle	2 145.00	18.921
		High	2 170.00	18.935
	256QAM	Low	2 120.00	18.907
		Middle	2 145.00	18.935
		High	2 170.00	18.926
1	QPSK	Low	2 120.00	18.942
		Middle	2 145.00	18.995
		High	2 170.00	18.946
	16QAM	Low	2 120.00	18.924
		Middle	2 145.00	18.904
		High	2 170.00	18.936
	64QAM	Low	2 120.00	18.972
		Middle	2 145.00	18.981
		High	2 170.00	18.876
	256QAM	Low	2 120.00	18.982
		Middle	2 145.00	18.965
		High	2 170.00	18.949
2	QPSK	Low	2 120.00	18.954
		Middle	2 145.00	18.923
		High	2 170.00	18.950
	16QAM	Low	2 120.00	18.919
		Middle	2 145.00	18.946
		High	2 170.00	18.984
	64QAM	Low	2 120.00	18.926
		Middle	2 145.00	18.933
		High	2 170.00	18.917
	256QAM	Low	2 120.00	18.944
		Middle	2 145.00	18.898
		High	2 170.00	18.922
3	QPSK	Low	2 120.00	18.938
		Middle	2 145.00	18.979
		High	2 170.00	18.959
	16QAM	Low	2 120.00	18.895
		Middle	2 145.00	18.934
		High	2 170.00	18.890
	64QAM	Low	2 120.00	18.909
		Middle	2 145.00	18.973
		High	2 170.00	18.939
	256QAM	Low	2 120.00	18.905
		Middle	2 145.00	18.964
		High	2 170.00	18.946

Tabular Data of RF Contiguous Occupied Bandwidth

(4 Port) B25 DSS 10 MHz 1 Carrier + B25 LTE 5 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	1 937.50	14.352
		Middle	1 962.50	14.369
		High	1 987.50	14.376
	16QAM	Low	1 937.50	14.322
		Middle	1 962.50	14.359
		High	1 987.50	14.322
	64QAM	Low	1 937.50	14.355
		Middle	1 962.50	14.363
		High	1 987.50	14.384
	256QAM	Low	1 937.50	14.374
		Middle	1 962.50	14.362
		High	1 987.50	14.351
1	QPSK	Low	1 937.50	14.333
		Middle	1 962.50	14.358
		High	1 987.50	14.353
	16QAM	Low	1 937.50	14.360
		Middle	1 962.50	14.370
		High	1 987.50	14.290
	64QAM	Low	1 937.50	14.344
		Middle	1 962.50	14.375
		High	1 987.50	14.368
	256QAM	Low	1 937.50	14.368
		Middle	1 962.50	14.342
		High	1 987.50	14.379
2	QPSK	Low	1 937.50	14.344
		Middle	1 962.50	14.359
		High	1 987.50	14.342
	16QAM	Low	1 937.50	14.340
		Middle	1 962.50	14.344
		High	1 987.50	14.351
	64QAM	Low	1 937.50	14.340
		Middle	1 962.50	14.374
		High	1 987.50	14.396
	256QAM	Low	1 937.50	14.332
		Middle	1 962.50	14.329
		High	1 987.50	14.351
3	QPSK	Low	1 937.50	14.340
		Middle	1 962.50	14.342
		High	1 987.50	14.393
	16QAM	Low	1 937.50	14.323
		Middle	1 962.50	14.378
		High	1 987.50	14.352
	64QAM	Low	1 937.50	14.372
		Middle	1 962.50	14.398
		High	1 987.50	14.374
	256QAM	Low	1 937.50	14.408
		Middle	1 962.50	14.326
		High	1 987.50	14.370

(4 Port) B25 DSS 20 MHz 1 Carrier + B25 LTE 10 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	1 945.00	28.886
		Middle	1 962.50	28.829
		High	1 980.00	28.914
	16QAM	Low	1 945.00	28.921
		Middle	1 962.50	28.924
		High	1 980.00	28.877
	64QAM	Low	1 945.00	28.880
		Middle	1 962.50	28.875
		High	1 980.00	28.893
	256QAM	Low	1 945.00	28.903
		Middle	1 962.50	28.949
		High	1 980.00	28.858
1	QPSK	Low	1 945.00	28.828
		Middle	1 962.50	28.905
		High	1 980.00	28.940
	16QAM	Low	1 945.00	28.874
		Middle	1 962.50	28.920
		High	1 980.00	28.917
	64QAM	Low	1 945.00	28.845
		Middle	1 962.50	28.883
		High	1 980.00	28.928
	256QAM	Low	1 945.00	28.797
		Middle	1 962.50	28.919
		High	1 980.00	28.929
2	QPSK	Low	1 945.00	28.864
		Middle	1 962.50	28.885
		High	1 980.00	28.876
	16QAM	Low	1 945.00	28.904
		Middle	1 962.50	28.865
		High	1 980.00	28.941
	64QAM	Low	1 945.00	28.889
		Middle	1 962.50	28.906
		High	1 980.00	28.889
	256QAM	Low	1 945.00	28.830
		Middle	1 962.50	28.906
		High	1 980.00	28.903
3	QPSK	Low	1 945.00	28.856
		Middle	1 962.50	28.981
		High	1 980.00	28.961
	16QAM	Low	1 945.00	28.846
		Middle	1 962.50	28.946
		High	1 980.00	28.904
	64QAM	Low	1 945.00	28.842
		Middle	1 962.50	28.902
		High	1 980.00	28.968
	256QAM	Low	1 945.00	28.898
		Middle	1 962.50	29.002
		High	1 980.00	28.998

(4 Port) B25 DSS 10 MHz 1 Carrier + n25 5G NR 5 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	1 937.50	14.337
		Middle	1 962.50	14.344
		High	1 987.50	14.349
	16QAM	Low	1 937.50	14.369
		Middle	1 962.50	14.375
		High	1 987.50	14.354
	64QAM	Low	1 937.50	14.316
		Middle	1 962.50	14.352
		High	1 987.50	14.365
	256QAM	Low	1 937.50	14.341
		Middle	1 962.50	14.408
		High	1 987.50	14.328
1	QPSK	Low	1 937.50	14.357
		Middle	1 962.50	14.354
		High	1 987.50	14.339
	16QAM	Low	1 937.50	14.345
		Middle	1 962.50	14.320
		High	1 987.50	14.374
	64QAM	Low	1 937.50	14.333
		Middle	1 962.50	14.331
		High	1 987.50	14.388
	256QAM	Low	1 937.50	14.349
		Middle	1 962.50	14.370
		High	1 987.50	14.387
2	QPSK	Low	1 937.50	14.338
		Middle	1 962.50	14.317
		High	1 987.50	14.318
	16QAM	Low	1 937.50	14.323
		Middle	1 962.50	14.339
		High	1 987.50	14.383
	64QAM	Low	1 937.50	14.350
		Middle	1 962.50	14.330
		High	1 987.50	14.374
	256QAM	Low	1 937.50	14.342
		Middle	1 962.50	14.347
		High	1 987.50	14.374
3	QPSK	Low	1 937.50	14.320
		Middle	1 962.50	14.325
		High	1 987.50	14.335
	16QAM	Low	1 937.50	14.318
		Middle	1 962.50	14.370
		High	1 987.50	14.353
	64QAM	Low	1 937.50	14.358
		Middle	1 962.50	14.360
		High	1 987.50	14.390
	256QAM	Low	1 937.50	14.317
		Middle	1 962.50	14.336
		High	1 987.50	14.337

(4 Port) B25 DSS 10 MHz 1 Carrier + n25 5G NR 20 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	1 945.00	28.980
		Middle	1 962.50	29.001
		High	1 980.00	29.022
	16QAM	Low	1 945.00	28.985
		Middle	1 962.50	29.014
		High	1 980.00	29.053
	64QAM	Low	1 945.00	29.073
		Middle	1 962.50	29.008
		High	1 980.00	29.007
	256QAM	Low	1 945.00	29.035
		Middle	1 962.50	28.991
		High	1 980.00	29.069
1	QPSK	Low	1 945.00	29.023
		Middle	1 962.50	29.015
		High	1 980.00	29.014
	16QAM	Low	1 945.00	28.983
		Middle	1 962.50	29.008
		High	1 980.00	29.077
	64QAM	Low	1 945.00	29.023
		Middle	1 962.50	29.053
		High	1 980.00	29.107
	256QAM	Low	1 945.00	29.031
		Middle	1 962.50	29.040
		High	1 980.00	29.083
2	QPSK	Low	1 945.00	29.023
		Middle	1 962.50	28.995
		High	1 980.00	29.060
	16QAM	Low	1 945.00	29.011
		Middle	1 962.50	29.067
		High	1 980.00	29.036
	64QAM	Low	1 945.00	29.040
		Middle	1 962.50	29.081
		High	1 980.00	29.072
	256QAM	Low	1 945.00	29.023
		Middle	1 962.50	29.066
		High	1 980.00	29.043
3	QPSK	Low	1 945.00	29.006
		Middle	1 962.50	29.025
		High	1 980.00	29.072
	16QAM	Low	1 945.00	29.018
		Middle	1 962.50	29.082
		High	1 980.00	29.069
	64QAM	Low	1 945.00	29.000
		Middle	1 962.50	29.073
		High	1 980.00	29.085
	256QAM	Low	1 945.00	29.017
		Middle	1 962.50	29.085
		High	1 980.00	29.059

(4 Port) B66 DSS 10 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2 117.50	14.379
		Middle	2 145.00	14.373
		High	2 172.50	14.386
	16QAM	Low	2 117.50	14.280
		Middle	2 145.00	14.324
		High	2 172.50	14.304
	64QAM	Low	2 117.50	14.364
		Middle	2 145.00	14.345
		High	2 172.50	14.365
	256QAM	Low	2 117.50	14.342
		Middle	2 145.00	14.381
		High	2 172.50	14.356
1	QPSK	Low	2 117.50	14.356
		Middle	2 145.00	14.354
		High	2 172.50	14.417
	16QAM	Low	2 117.50	14.271
		Middle	2 145.00	14.302
		High	2 172.50	14.344
	64QAM	Low	2 117.50	14.346
		Middle	2 145.00	14.367
		High	2 172.50	14.356
	256QAM	Low	2 117.50	14.366
		Middle	2 145.00	14.380
		High	2 172.50	14.356
2	QPSK	Low	2 117.50	14.382
		Middle	2 145.00	14.328
		High	2 172.50	14.374
	16QAM	Low	2 117.50	14.282
		Middle	2 145.00	14.336
		High	2 172.50	14.321
	64QAM	Low	2 117.50	14.331
		Middle	2 145.00	14.359
		High	2 172.50	14.356
	256QAM	Low	2 117.50	14.369
		Middle	2 145.00	14.368
		High	2 172.50	14.382
3	QPSK	Low	2 117.50	14.321
		Middle	2 145.00	14.345
		High	2 172.50	14.399
	16QAM	Low	2 117.50	14.294
		Middle	2 145.00	14.302
		High	2 172.50	14.278
	64QAM	Low	2 117.50	14.348
		Middle	2 145.00	14.361
		High	2 172.50	14.365
	256QAM	Low	2 117.50	14.357
		Middle	2 145.00	14.362
		High	2 172.50	14.347

(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 5 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2 117.50	14.363
		Middle	2 145.00	14.345
		High	2 172.50	14.328
	16QAM	Low	2 117.50	14.353
		Middle	2 145.00	14.314
		High	2 172.50	14.339
	64QAM	Low	2 117.50	14.352
		Middle	2 145.00	14.346
		High	2 172.50	14.365
	256QAM	Low	2 117.50	14.367
		Middle	2 145.00	14.349
		High	2 172.50	14.349
1	QPSK	Low	2 117.50	14.316
		Middle	2 145.00	14.362
		High	2 172.50	14.361
	16QAM	Low	2 117.50	14.359
		Middle	2 145.00	14.372
		High	2 172.50	14.310
	64QAM	Low	2 117.50	14.322
		Middle	2 145.00	14.346
		High	2 172.50	14.343
	256QAM	Low	2 117.50	14.322
		Middle	2 145.00	14.359
		High	2 172.50	14.329
2	QPSK	Low	2 117.50	14.335
		Middle	2 145.00	14.351
		High	2 172.50	14.339
	16QAM	Low	2 117.50	14.336
		Middle	2 145.00	14.349
		High	2 172.50	14.363
	64QAM	Low	2 117.50	14.360
		Middle	2 145.00	14.335
		High	2 172.50	14.325
	256QAM	Low	2 117.50	14.326
		Middle	2 145.00	14.315
		High	2 172.50	14.351
3	QPSK	Low	2 117.50	14.334
		Middle	2 145.00	14.336
		High	2 172.50	14.380
	16QAM	Low	2 117.50	14.354
		Middle	2 145.00	14.315
		High	2 172.50	14.314
	64QAM	Low	2 117.50	14.344
		Middle	2 145.00	14.322
		High	2 172.50	14.362
	256QAM	Low	2 117.50	14.357
		Middle	2 145.00	14.372
		High	2 172.50	14.338

(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2 120.00	19.291
		Middle	2 145.00	19.343
		High	2 170.00	19.282
	16QAM	Low	2 120.00	19.306
		Middle	2 145.00	19.266
		High	2 170.00	19.297
	64QAM	Low	2 120.00	19.272
		Middle	2 145.00	19.310
		High	2 170.00	19.311
	256QAM	Low	2 120.00	19.263
		Middle	2 145.00	19.350
		High	2 170.00	19.322
1	QPSK	Low	2 120.00	19.334
		Middle	2 145.00	19.356
		High	2 170.00	19.360
	16QAM	Low	2 120.00	19.223
		Middle	2 145.00	19.282
		High	2 170.00	19.284
	64QAM	Low	2 120.00	19.284
		Middle	2 145.00	19.317
		High	2 170.00	19.338
	256QAM	Low	2 120.00	19.291
		Middle	2 145.00	19.336
		High	2 170.00	19.372
2	QPSK	Low	2 120.00	19.310
		Middle	2 145.00	19.330
		High	2 170.00	19.344
	16QAM	Low	2 120.00	19.249
		Middle	2 145.00	19.277
		High	2 170.00	19.270
	64QAM	Low	2 120.00	19.276
		Middle	2 145.00	19.303
		High	2 170.00	19.342
	256QAM	Low	2 120.00	19.297
		Middle	2 145.00	19.328
		High	2 170.00	19.312
3	QPSK	Low	2 120.00	19.281
		Middle	2 145.00	19.336
		High	2 170.00	19.321
	16QAM	Low	2 120.00	19.256
		Middle	2 145.00	19.307
		High	2 170.00	19.311
	64QAM	Low	2 120.00	19.320
		Middle	2 145.00	19.339
		High	2 170.00	19.321
	256QAM	Low	2 120.00	19.305
		Middle	2 145.00	19.324
		High	2 170.00	19.320

(4 Port) B66 DSS 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [4 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2 140.00	58.195
		Middle	2 145.00	58.162
		High	2 150.00	58.239
	16QAM	Low	2 140.00	58.150
		Middle	2 145.00	58.224
		High	2 150.00	58.184
	64QAM	Low	2 140.00	58.139
		Middle	2 145.00	58.191
		High	2 150.00	58.255
	256QAM	Low	2 140.00	58.195
		Middle	2 145.00	58.195
		High	2 150.00	58.118
1	QPSK	Low	2 140.00	58.181
		Middle	2 145.00	58.294
		High	2 150.00	58.173
	16QAM	Low	2 140.00	58.176
		Middle	2 145.00	58.178
		High	2 150.00	58.234
	64QAM	Low	2 140.00	58.113
		Middle	2 145.00	58.127
		High	2 150.00	58.224
	256QAM	Low	2 140.00	58.099
		Middle	2 145.00	58.253
		High	2 150.00	58.190
2	QPSK	Low	2 140.00	58.163
		Middle	2 145.00	58.176
		High	2 150.00	58.321
	16QAM	Low	2 140.00	58.214
		Middle	2 145.00	58.266
		High	2 150.00	58.303
	64QAM	Low	2 140.00	58.266
		Middle	2 145.00	58.208
		High	2 150.00	58.197
	256QAM	Low	2 140.00	58.259
		Middle	2 145.00	58.247
		High	2 150.00	58.091
3	QPSK	Low	2 140.00	57.998
		Middle	2 145.00	58.182
		High	2 150.00	58.203
	16QAM	Low	2 140.00	58.123
		Middle	2 145.00	58.149
		High	2 150.00	58.224
	64QAM	Low	2 140.00	58.061
		Middle	2 145.00	58.184
		High	2 150.00	58.204
	256QAM	Low	2 140.00	58.291
		Middle	2 145.00	58.118
		High	2 150.00	58.273

(4 Port) B66 DSS 20 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2 140.00	59.016
		Middle	2 145.00	58.863
		High	2 150.00	59.025
	16QAM	Low	2 140.00	58.926
		Middle	2 145.00	58.938
		High	2 150.00	58.873
	64QAM	Low	2 140.00	58.955
		Middle	2 145.00	58.857
		High	2 150.00	58.999
	256QAM	Low	2 140.00	58.897
		Middle	2 145.00	58.997
		High	2 150.00	58.988
1	QPSK	Low	2 140.00	58.961
		Middle	2 145.00	58.936
		High	2 150.00	58.900
	16QAM	Low	2 140.00	58.860
		Middle	2 145.00	58.954
		High	2 150.00	58.913
	64QAM	Low	2 140.00	58.858
		Middle	2 145.00	58.933
		High	2 150.00	58.985
	256QAM	Low	2 140.00	59.074
		Middle	2 145.00	58.871
		High	2 150.00	58.961
2	QPSK	Low	2 140.00	58.826
		Middle	2 145.00	58.965
		High	2 150.00	58.970
	16QAM	Low	2 140.00	58.813
		Middle	2 145.00	58.797
		High	2 150.00	58.806
	64QAM	Low	2 140.00	58.818
		Middle	2 145.00	58.951
		High	2 150.00	58.926
	256QAM	Low	2 140.00	58.952
		Middle	2 145.00	58.967
		High	2 150.00	58.940
3	QPSK	Low	2 140.00	58.809
		Middle	2 145.00	58.906
		High	2 150.00	58.931
	16QAM	Low	2 140.00	58.950
		Middle	2 145.00	58.931
		High	2 150.00	58.923
	64QAM	Low	2 140.00	58.873
		Middle	2 145.00	58.860
		High	2 150.00	58.890
	256QAM	Low	2 140.00	58.879
		Middle	2 145.00	59.026
		High	2 150.00	58.953

(4 Port) B66 DSS 15 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [4 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2 140.00	58.588
		Middle	2 145.00	58.636
		High	2 150.00	58.652
	16QAM	Low	2 140.00	58.619
		Middle	2 145.00	58.698
		High	2 150.00	58.676
	64QAM	Low	2 140.00	58.652
		Middle	2 145.00	58.705
		High	2 150.00	58.692
	256QAM	Low	2 140.00	58.653
		Middle	2 145.00	58.686
		High	2 150.00	58.637
1	QPSK	Low	2 140.00	58.608
		Middle	2 145.00	58.644
		High	2 150.00	58.791
	16QAM	Low	2 140.00	58.701
		Middle	2 145.00	58.571
		High	2 150.00	58.716
	64QAM	Low	2 140.00	58.613
		Middle	2 145.00	58.640
		High	2 150.00	58.597
	256QAM	Low	2 140.00	58.580
		Middle	2 145.00	58.718
		High	2 150.00	58.684
2	QPSK	Low	2 140.00	58.630
		Middle	2 145.00	58.683
		High	2 150.00	58.669
	16QAM	Low	2 140.00	58.650
		Middle	2 145.00	58.737
		High	2 150.00	58.667
	64QAM	Low	2 140.00	58.495
		Middle	2 145.00	58.697
		High	2 150.00	58.709
	256QAM	Low	2 140.00	58.692
		Middle	2 145.00	58.693
		High	2 150.00	58.759
3	QPSK	Low	2 140.00	58.622
		Middle	2 145.00	58.659
		High	2 150.00	58.717
	16QAM	Low	2 140.00	58.665
		Middle	2 145.00	58.679
		High	2 150.00	58.701
	64QAM	Low	2 140.00	58.633
		Middle	2 145.00	58.650
		High	2 150.00	58.605
	256QAM	Low	2 140.00	58.560
		Middle	2 145.00	58.671
		High	2 150.00	58.705

Tabular Data of RF Non-Contiguous Occupied Bandwidth

(4 Port) B25 DSS 10 MHz 1 Carrier + B25 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	B25 DSS 10 MHz 1 Carrier		B25 LTE 5 MHz 1 Carrier		Total OBW (MHz)
		Frequency (MHz)	Occupied Bandwidth (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)	
0	QPSK	1 935.00	9.2711	1 992.50	4.4949	13.766
	16QAM	1 935.00	9.2816	1 992.50	4.4902	13.772
	64QAM	1 935.00	9.3046	1 992.50	4.5034	13.808
	256QAM	1 935.00	9.2963	1 992.50	4.5038	13.800
1	QPSK	1 935.00	9.2796	1 992.50	4.4939	13.774
	16QAM	1 935.00	9.2783	1 992.50	4.4834	13.762
	64QAM	1 935.00	9.3206	1 992.50	4.4945	13.815
	256QAM	1 935.00	9.2831	1 992.50	4.4856	13.769
2	QPSK	1 935.00	9.3067	1 992.50	4.4889	13.796
	16QAM	1 935.00	9.2792	1 992.50	4.4849	13.764
	64QAM	1 935.00	9.3041	1 992.50	4.4973	13.801
	256QAM	1 935.00	9.3049	1 992.50	4.4937	13.799
3	QPSK	1 935.00	9.2780	1 992.50	4.4873	13.765
	16QAM	1 935.00	9.2667	1 992.50	4.4880	13.755
	64QAM	1 935.00	9.2960	1 992.50	4.4980	13.794
	256QAM	1 935.00	9.3221	1 992.50	4.4983	13.820

(4 Port) B25 DSS 20 MHz 1 Carrier + B25 LTE 10 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	B25 DSS 20 MHz 1 Carrier		B25 LTE 10 MHz 1 Carrier		Total OBW (MHz)
		Frequency (MHz)	Occupied Bandwidth (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)	
0	QPSK	1 940.00	18.932	1 990.00	8.9606	27.893
	16QAM	1 940.00	18.895	1 990.00	9.0181	27.913
	64QAM	1 940.00	18.953	1 990.00	8.9745	27.928
	256QAM	1 940.00	18.913	1 990.00	8.9807	27.894
1	QPSK	1 940.00	18.921	1 990.00	8.9932	27.914
	16QAM	1 940.00	18.878	1 990.00	9.0237	27.902
	64QAM	1 940.00	18.938	1 990.00	8.9702	27.908
	256QAM	1 940.00	18.970	1 990.00	8.9660	27.936
2	QPSK	1 940.00	18.948	1 990.00	8.9778	27.926
	16QAM	1 940.00	18.915	1 990.00	9.0043	27.919
	64QAM	1 940.00	18.937	1 990.00	9.0010	27.938
	256QAM	1 940.00	18.913	1 990.00	8.9537	27.867
3	QPSK	1 940.00	18.913	1 990.00	8.9843	27.897
	16QAM	1 940.00	18.949	1 990.00	9.0013	27.951
	64QAM	1 940.00	18.910	1 990.00	8.9881	27.898
	256QAM	1 940.00	18.920	1 990.00	8.9589	27.879

(4 Port) B25 DSS 10 MHz 1 Carrier + n25 5G NR 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	B25 DSS 10 MHz 1 Carrier		n25 5G NR 5 MHz 1 Carrier		Total OBW (MHz)
		Frequency (MHz)	Occupied Bandwidth (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)	
0	QPSK	1 935.00	9.3148	1 992.50	4.4781	13.793
	16QAM	1 935.00	9.2944	1 992.50	4.4772	13.772
	64QAM	1 935.00	9.3012	1 992.50	4.4754	13.777
	256QAM	1 935.00	9.3068	1 992.50	4.4774	13.784
1	QPSK	1 935.00	9.2658	1 992.50	4.4804	13.746
	16QAM	1 935.00	9.2696	1 992.50	4.4846	13.754
	64QAM	1 935.00	9.2902	1 992.50	4.4876	13.778
	256QAM	1 935.00	9.2975	1 992.50	4.4703	13.768
2	QPSK	1 935.00	9.2857	1 992.50	4.4819	13.768
	16QAM	1 935.00	9.2782	1 992.50	4.4774	13.756
	64QAM	1 935.00	9.2723	1 992.50	4.4882	13.760
	256QAM	1 935.00	9.3002	1 992.50	4.4714	13.772
3	QPSK	1 935.00	9.2993	1 992.50	4.4788	13.778
	16QAM	1 935.00	9.3055	1 992.50	4.4817	13.787
	64QAM	1 935.00	9.2986	1 992.50	4.4850	13.784
	256QAM	1 935.00	9.3327	1 992.50	4.4758	13.808

(4 Port) B25 DSS 10 MHz 1 Carrier + n25 5G NR 20 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	B25 DSS 10 MHz 1 Carrier		n25 5G NR 20 MHz 1 Carrier		Total OBW (MHz)
		Frequency (MHz)	Occupied Bandwidth (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)	
0	QPSK	1 935.00	9.2764	1 985.00	18.986	28.262
	16QAM	1 935.00	9.2751	1 985.00	18.940	28.215
	64QAM	1 935.00	9.2950	1 985.00	18.991	28.286
	256QAM	1 935.00	9.2672	1 985.00	18.994	28.261
1	QPSK	1 935.00	9.2841	1 985.00	18.940	28.224
	16QAM	1 935.00	9.2847	1 985.00	18.989	28.273
	64QAM	1 935.00	9.3285	1 985.00	19.004	28.333
	256QAM	1 935.00	9.3101	1 985.00	18.959	28.269
2	QPSK	1 935.00	9.2993	1 985.00	18.964	28.263
	16QAM	1 935.00	9.3012	1 985.00	18.948	28.249
	64QAM	1 935.00	9.2972	1 985.00	18.950	28.247
	256QAM	1 935.00	9.3170	1 985.00	18.975	28.292
3	QPSK	1 935.00	9.2792	1 985.00	18.978	28.257
	16QAM	1 935.00	9.2990	1 985.00	18.961	28.260
	64QAM	1 935.00	9.3018	1 985.00	18.969	28.271
	256QAM	1 935.00	9.3244	1 985.00	18.999	28.323

(4 Port) B66 DSS 10 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	B66 DSS 10 MHz 1 Carrier		B66 LTE 5 MHz 1 Carrier		Total OBW (MHz)
		Frequency (MHz)	Occupied Bandwidth (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)	
0	QPSK	2 115.00	9.2825	2 177.50	4.4862	13.769
	16QAM	2 115.00	9.2777	2 177.50	4.4759	13.754
	64QAM	2 115.00	9.2945	2 177.50	4.4953	13.790
	256QAM	2 115.00	9.2651	2 177.50	4.4977	13.763
1	QPSK	2 115.00	9.2940	2 177.50	4.4884	13.782
	16QAM	2 115.00	9.2885	2 177.50	4.4939	13.782
	64QAM	2 115.00	9.2914	2 177.50	4.4858	13.777
	256QAM	2 115.00	9.2887	2 177.50	4.5043	13.793
2	QPSK	2 115.00	9.2641	2 177.50	4.4980	13.762
	16QAM	2 115.00	9.2637	2 177.50	4.4945	13.758
	64QAM	2 115.00	9.2977	2 177.50	4.5039	13.802
	256QAM	2 115.00	9.2603	2 177.50	4.4952	13.755
3	QPSK	2 115.00	9.2922	2 177.50	4.5034	13.796
	16QAM	2 115.00	9.2842	2 177.50	4.5140	13.798
	64QAM	2 115.00	9.2806	2 177.50	4.5004	13.781
	256QAM	2 115.00	9.2542	2 177.50	4.4856	13.740

(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	B66 DSS 10 MHz 1 Carrier		n66 5G NR 5 MHz 1 Carrier		Total OBW (MHz)
		Frequency (MHz)	Occupied Bandwidth (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)	
0	QPSK	2 115.00	9.2881	2 177.50	4.4783	13.766
	16QAM	2 115.00	9.2636	2 177.50	4.4721	13.736
	64QAM	2 115.00	9.2715	2 177.50	4.4779	13.749
	256QAM	2 115.00	9.3077	2 177.50	4.4867	13.794
1	QPSK	2 115.00	9.2986	2 177.50	4.4789	13.777
	16QAM	2 115.00	9.2865	2 177.50	4.4840	13.770
	64QAM	2 115.00	9.2725	2 177.50	4.4812	13.754
	256QAM	2 115.00	9.2980	2 177.50	4.4815	13.780
2	QPSK	2 115.00	9.2578	2 177.50	4.4733	13.731
	16QAM	2 115.00	9.2875	2 177.50	4.4873	13.775
	64QAM	2 115.00	9.3075	2 177.50	4.4891	13.797
	256QAM	2 115.00	9.2987	2 177.50	4.4865	13.785
3	QPSK	2 115.00	9.2837	2 177.50	4.4813	13.765
	16QAM	2 115.00	9.2598	2 177.50	4.4856	13.745
	64QAM	2 115.00	9.3092	2 177.50	4.4822	13.791
	256QAM	2 115.00	9.2954	2 177.50	4.4848	13.780

(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C)

Ant.	Mod.	B66 DSS 10 MHz 1 Carrier		n66 5G NR 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier		Total OBW (MHz)
		Frequency (MHz)	Occupied Bandwidth (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)	
0	QPSK	2 115.00	9.2882	2 175.00	9.4567	18.745
	16QAM	2 115.00	9.2720	2 175.00	9.4283	18.700
	64QAM	2 115.00	9.2921	2 175.00	9.4656	18.758
	256QAM	2 115.00	9.2724	2 175.00	9.4857	18.758
1	QPSK	2 115.00	9.2847	2 175.00	9.4704	18.755
	16QAM	2 115.00	9.2688	2 175.00	9.4422	18.711
	64QAM	2 115.00	9.2832	2 175.00	9.4865	18.770
	256QAM	2 115.00	9.2913	2 175.00	9.4449	18.736
2	QPSK	2 115.00	9.2965	2 175.00	9.4495	18.746
	16QAM	2 115.00	9.2826	2 175.00	9.4692	18.752
	64QAM	2 115.00	9.2658	2 175.00	9.4595	18.725
	256QAM	2 115.00	9.2677	2 175.00	9.4557	18.723
3	QPSK	2 115.00	9.2923	2 175.00	9.4414	18.734
	16QAM	2 115.00	9.2833	2 175.00	9.4751	18.758
	64QAM	2 115.00	9.3133	2 175.00	9.4705	18.784
	256QAM	2 115.00	9.2761	2 175.00	9.4768	18.753

(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C)

Ant.	Mod.	B66 DSS 10 MHz 1 Carrier + n66 5G NR 5 MHz 1 Carrier		B66 LTE 5 MHz 1 Carrier		Total OBW (MHz)
		Frequency (MHz)	Occupied Bandwidth (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)	
0	QPSK	2 117.50	14.317	2 177.50	4.4922	18.809
	16QAM	2 117.50	14.295	2 177.50	4.4918	18.787
	64QAM	2 117.50	14.338	2 177.50	4.4856	18.823
	256QAM	2 117.50	14.317	2 177.50	4.5112	18.829
1	QPSK	2 117.50	14.317	2 177.50	4.4998	18.817
	16QAM	2 117.50	14.319	2 177.50	4.4742	18.793
	64QAM	2 117.50	14.327	2 177.50	4.4831	18.811
	256QAM	2 117.50	14.314	2 177.50	4.5006	18.815
2	QPSK	2 117.50	14.352	2 177.50	4.5008	18.853
	16QAM	2 117.50	14.279	2 177.50	4.4958	18.775
	64QAM	2 117.50	14.372	2 177.50	4.5068	18.879
	256QAM	2 117.50	14.348	2 177.50	4.4960	18.844
3	QPSK	2 117.50	14.301	2 177.50	4.5012	18.802
	16QAM	2 117.50	14.286	2 177.50	4.4712	18.757
	64QAM	2 117.50	14.338	2 177.50	4.4962	18.834
	256QAM	2 117.50	14.367	2 177.50	4.4826	18.850

(4 Port) B66 DSS 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [4 Carrier] (1C+3C)

Ant.	Mod.	B66 DSS 20 MHz 1 Carrier		B66 LTE 10 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier		Total OBW (MHz)
		Frequency (MHz)	Occupied Bandwidth (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)	
0	QPSK	2 120.00	18.931	2 160.00	38.331	57.262
	16QAM	2 120.00	18.904	2 160.00	38.413	57.317
	64QAM	2 120.00	18.895	2 160.00	38.376	57.272
	256QAM	2 120.00	18.926	2 160.00	38.374	57.300
1	QPSK	2 120.00	18.956	2 160.00	38.303	57.259
	16QAM	2 120.00	18.911	2 160.00	38.351	57.261
	64QAM	2 120.00	18.944	2 160.00	38.320	57.264
	256QAM	2 120.00	18.933	2 160.00	38.304	57.237
2	QPSK	2 120.00	18.956	2 160.00	38.305	57.261
	16QAM	2 120.00	18.950	2 160.00	38.420	57.370
	64QAM	2 120.00	18.924	2 160.00	38.321	57.245
	256QAM	2 120.00	18.951	2 160.00	38.365	57.316
3	QPSK	2 120.00	18.944	2 160.00	38.360	57.303
	16QAM	2 120.00	18.879	2 160.00	38.375	57.254
	64QAM	2 120.00	18.907	2 160.00	38.304	57.211
	256QAM	2 120.00	18.937	2 160.00	38.287	57.224

(4 Port) B66 DSS 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [4 Carrier] (3C+1C)

Ant.	Mod.	B66 DSS 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier		B66 LTE 20 MHz 1 Carrier		Total OBW (MHz)
		Frequency (MHz)	Occupied Bandwidth (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)	
0	QPSK	2 130.00	38.774	2 170.00	17.973	56.747
	16QAM	2 130.00	38.788	2 170.00	17.950	56.738
	64QAM	2 130.00	38.835	2 170.00	17.941	56.776
	256QAM	2 130.00	38.854	2 170.00	17.993	56.847
1	QPSK	2 130.00	38.800	2 170.00	17.905	56.706
	16QAM	2 130.00	38.772	2 170.00	17.955	56.727
	64QAM	2 130.00	38.816	2 170.00	17.918	56.734
	256QAM	2 130.00	38.716	2 170.00	17.954	56.671
2	QPSK	2 130.00	38.746	2 170.00	17.908	56.655
	16QAM	2 130.00	38.828	2 170.00	17.935	56.763
	64QAM	2 130.00	38.785	2 170.00	18.000	56.785
	256QAM	2 130.00	38.864	2 170.00	17.906	56.770
3	QPSK	2 130.00	38.777	2 170.00	17.914	56.691
	16QAM	2 130.00	38.745	2 170.00	17.955	56.700
	64QAM	2 130.00	38.840	2 170.00	17.918	56.758
	256QAM	2 130.00	38.799	2 170.00	17.951	56.750

(4 Port) B66 DSS 20 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (1C+3C)

Ant.	Mod.	B66 DSS 20 MHz 1 Carrier		n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier		Total OBW (MHz)
		Frequency (MHz)	Occupied Bandwidth (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)	
0	QPSK	2 120.00	18.916	2 160.00	39.234	58.151
	16QAM	2 120.00	18.890	2 160.00	39.253	58.144
	64QAM	2 120.00	18.920	2 160.00	39.251	58.171
	256QAM	2 120.00	18.905	2 160.00	39.304	58.209
1	QPSK	2 120.00	18.948	2 160.00	39.276	58.225
	16QAM	2 120.00	18.925	2 160.00	39.245	58.170
	64QAM	2 120.00	18.908	2 160.00	39.202	58.109
	256QAM	2 120.00	18.944	2 160.00	39.263	58.206
2	QPSK	2 120.00	18.940	2 160.00	39.296	58.236
	16QAM	2 120.00	18.973	2 160.00	39.229	58.202
	64QAM	2 120.00	18.908	2 160.00	39.231	58.139
	256QAM	2 120.00	18.923	2 160.00	39.261	58.184
3	QPSK	2 120.00	18.912	2 160.00	39.339	58.251
	16QAM	2 120.00	18.906	2 160.00	39.208	58.114
	64QAM	2 120.00	18.922	2 160.00	39.295	58.217
	256QAM	2 120.00	18.924	2 160.00	39.314	58.238

(4 Port) B66 DSS 20 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (3C+1C)

Ant.	Mod.	B66 DSS 20 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier		B66 LTE 5 MHz 1 Carrier		Total OBW (MHz)
		Frequency (MHz)	Occupied Bandwidth (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)	
0	QPSK	2 137.50	53.815	2 177.50	4.4896	58.304
	16QAM	2 137.50	53.852	2 177.50	4.4678	58.320
	64QAM	2 137.50	53.825	2 177.50	4.4939	58.319
	256QAM	2 137.50	53.781	2 177.50	4.4973	58.278
1	QPSK	2 137.50	53.778	2 177.50	4.5096	58.288
	16QAM	2 137.50	53.822	2 177.50	4.4874	58.309
	64QAM	2 137.50	53.750	2 177.50	4.5085	58.259
	256QAM	2 137.50	53.722	2 177.50	4.4944	58.217
2	QPSK	2 137.50	53.942	2 177.50	4.4941	58.437
	16QAM	2 137.50	53.793	2 177.50	4.4961	58.289
	64QAM	2 137.50	53.763	2 177.50	4.5006	58.264
	256QAM	2 137.50	53.854	2 177.50	4.4885	58.342
3	QPSK	2 137.50	53.730	2 177.50	4.4998	58.230
	16QAM	2 137.50	53.832	2 177.50	4.4863	58.318
	64QAM	2 137.50	53.748	2 177.50	4.5004	58.248
	256QAM	2 137.50	53.805	2 177.50	4.5002	58.305

(4 Port) B66 DSS 15 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [4 Carrier] (1C+3C)

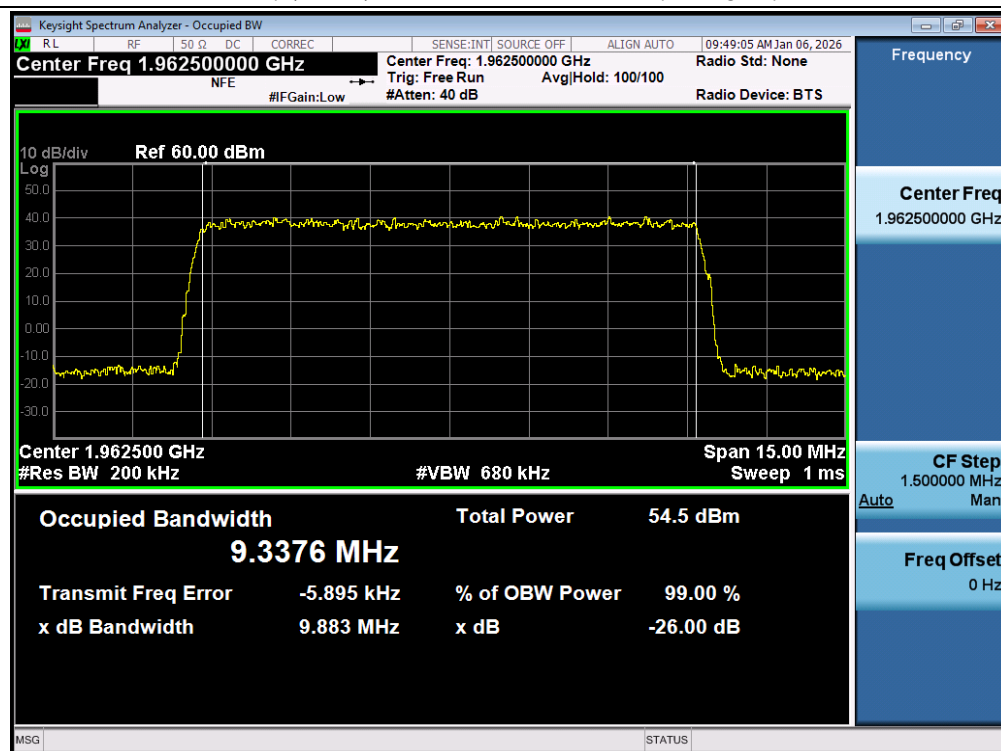
Ant.	Mod.	B66 DSS 15 MHz 1 Carrier		n66 5G NR 10 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier		Total OBW (MHz)
		Frequency (MHz)	Occupied Bandwidth (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)	
0	QPSK	2 117.50	14.102	2 157.50	43.948	58.050
	16QAM	2 117.50	14.092	2 157.50	43.914	58.006
	64QAM	2 117.50	14.106	2 157.50	43.993	58.099
	256QAM	2 117.50	14.158	2 157.50	43.944	58.102
1	QPSK	2 117.50	14.110	2 157.50	43.942	58.052
	16QAM	2 117.50	14.098	2 157.50	43.976	58.073
	64QAM	2 117.50	14.100	2 157.50	43.925	58.025
	256QAM	2 117.50	14.082	2 157.50	43.909	57.991
2	QPSK	2 117.50	14.093	2 157.50	43.940	58.033
	16QAM	2 117.50	14.079	2 157.50	43.909	57.988
	64QAM	2 117.50	14.110	2 157.50	43.924	58.034
	256QAM	2 117.50	14.125	2 157.50	43.879	58.004
3	QPSK	2 117.50	14.076	2 157.50	43.916	57.993
	16QAM	2 117.50	14.091	2 157.50	43.969	58.060
	64QAM	2 117.50	14.096	2 157.50	43.968	58.064
	256QAM	2 117.50	14.123	2 157.50	43.896	58.020

(4 Port) B66 DSS 15 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [4 Carrier] (3C+1C)

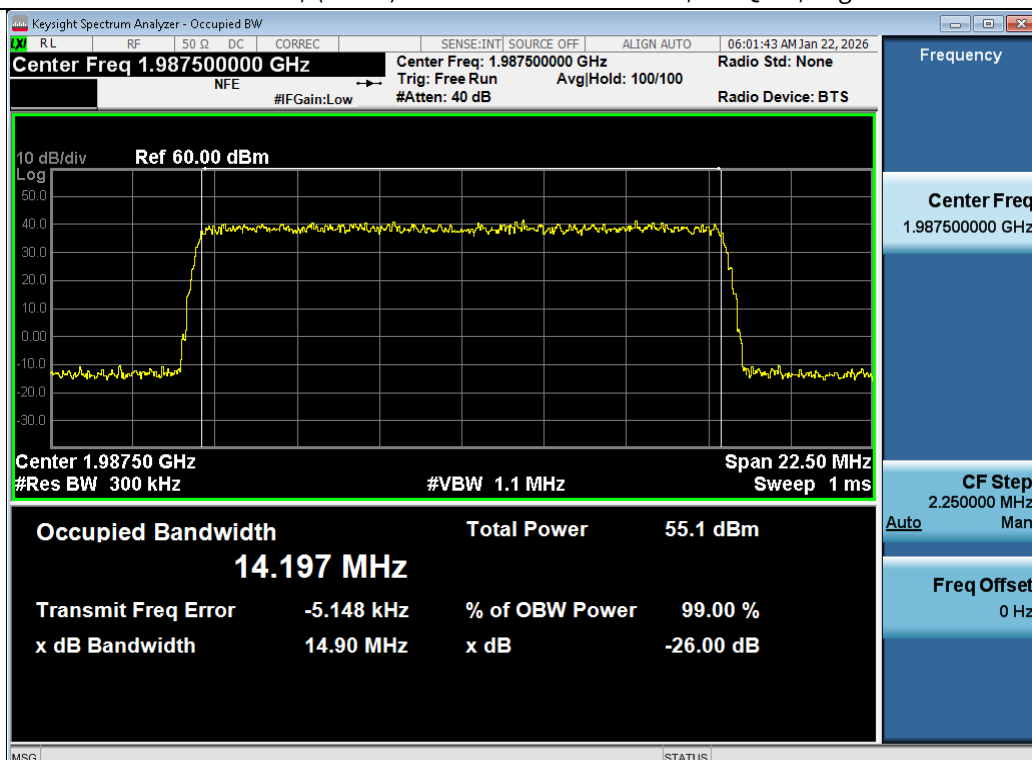
Ant.	Mod.	B66 DSS 15 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier + n66 5G NR 10 MHz 1 Carrier		n66 5G NR 25 MHz 1 Carrier		Total OBW (MHz)
		Frequency (MHz)	Occupied Bandwidth (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)	
0	QPSK	2 127.50	33.996	2 167.50	23.780	57.776
	16QAM	2 127.50	34.021	2 167.50	23.835	57.856
	64QAM	2 127.50	33.965	2 167.50	23.782	57.747
	256QAM	2 127.50	34.048	2 167.50	23.836	57.884
1	QPSK	2 127.50	34.014	2 167.50	23.799	57.813
	16QAM	2 127.50	34.037	2 167.50	23.795	57.832
	64QAM	2 127.50	34.007	2 167.50	23.802	57.810
	256QAM	2 127.50	34.042	2 167.50	23.821	57.863
2	QPSK	2 127.50	34.059	2 167.50	23.833	57.892
	16QAM	2 127.50	34.022	2 167.50	23.769	57.791
	64QAM	2 127.50	33.975	2 167.50	23.835	57.810
	256QAM	2 127.50	33.963	2 167.50	23.820	57.783
3	QPSK	2 127.50	34.111	2 167.50	23.803	57.915
	16QAM	2 127.50	34.039	2 167.50	23.784	57.824
	64QAM	2 127.50	33.995	2 167.50	23.808	57.804
	256QAM	2 127.50	34.058	2 167.50	23.785	57.843

Plot Data of RF Occupied Bandwidth

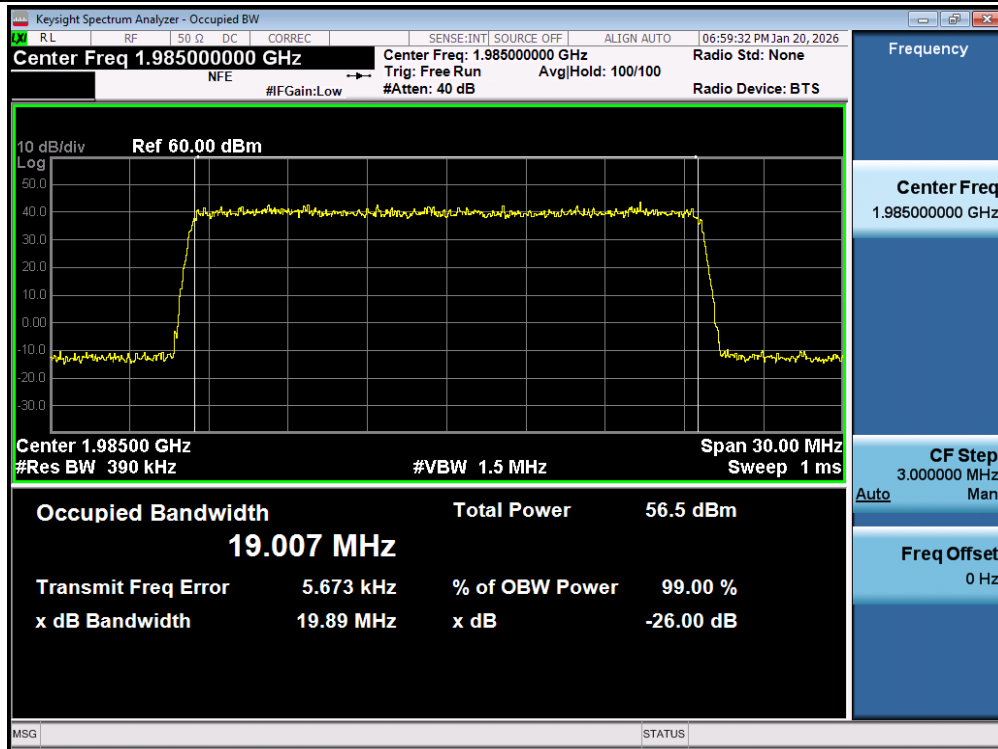
Antenna 0 / (4 Port) B25 DSS 10 MHz 1 Carrier / 256QAM / Middle



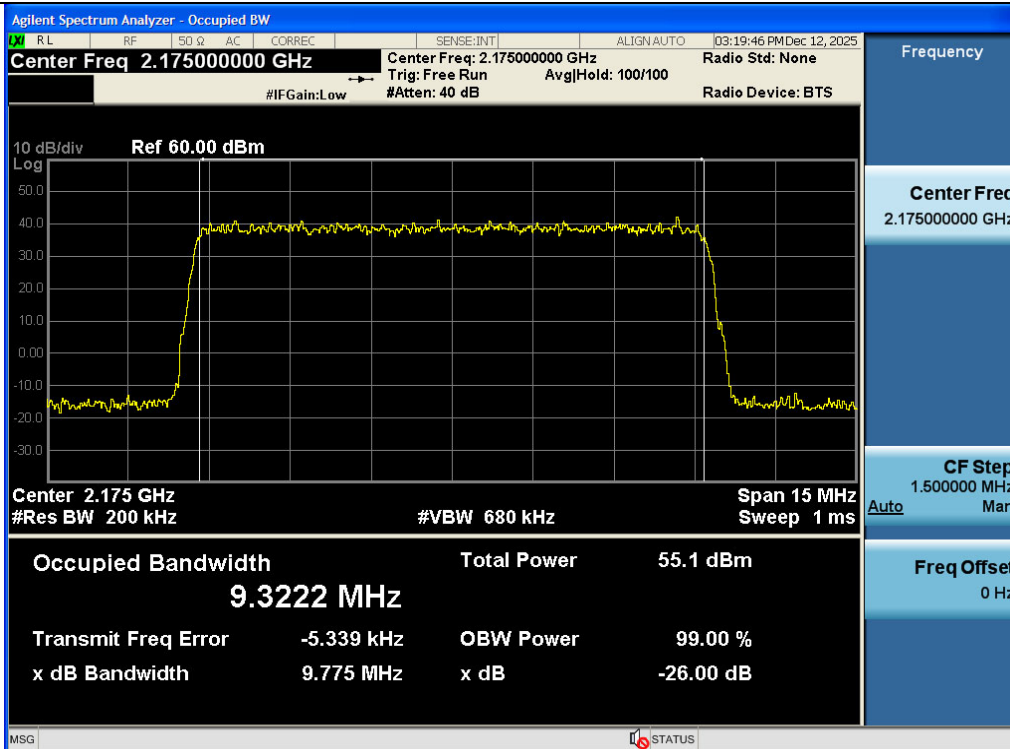
Antenna 1 / (4 Port) B25 DSS 15 MHz 1 Carrier / 256QAM / High



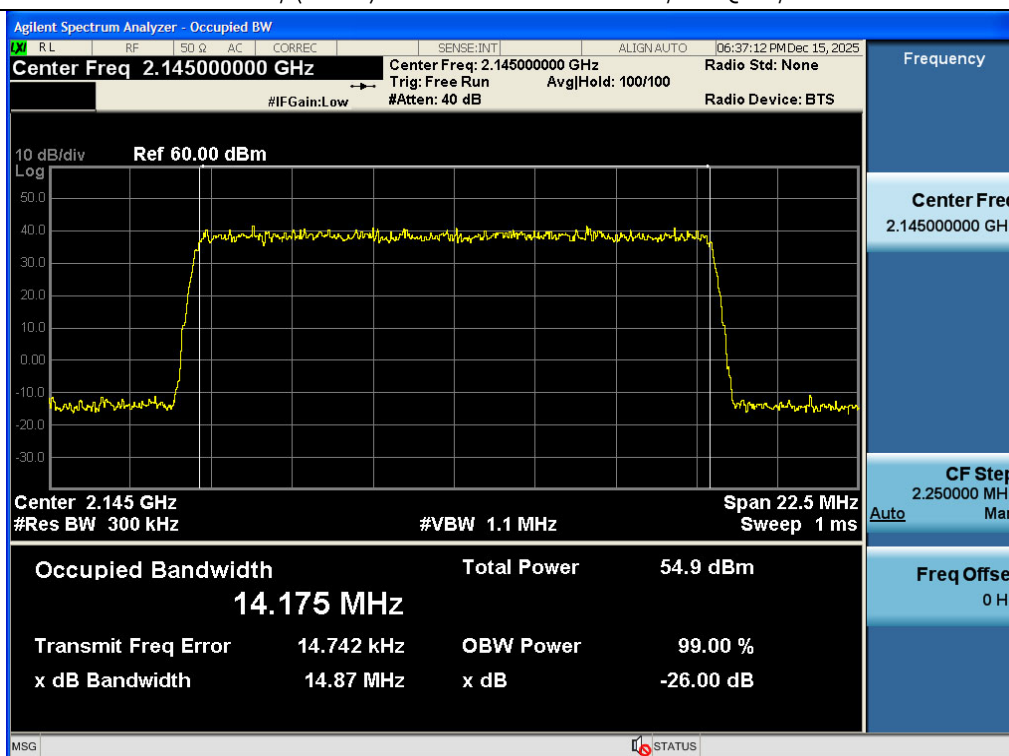
Antenna 3 / (4 Port) B25 DSS 20 MHz 1 Carrier / QPSK / High



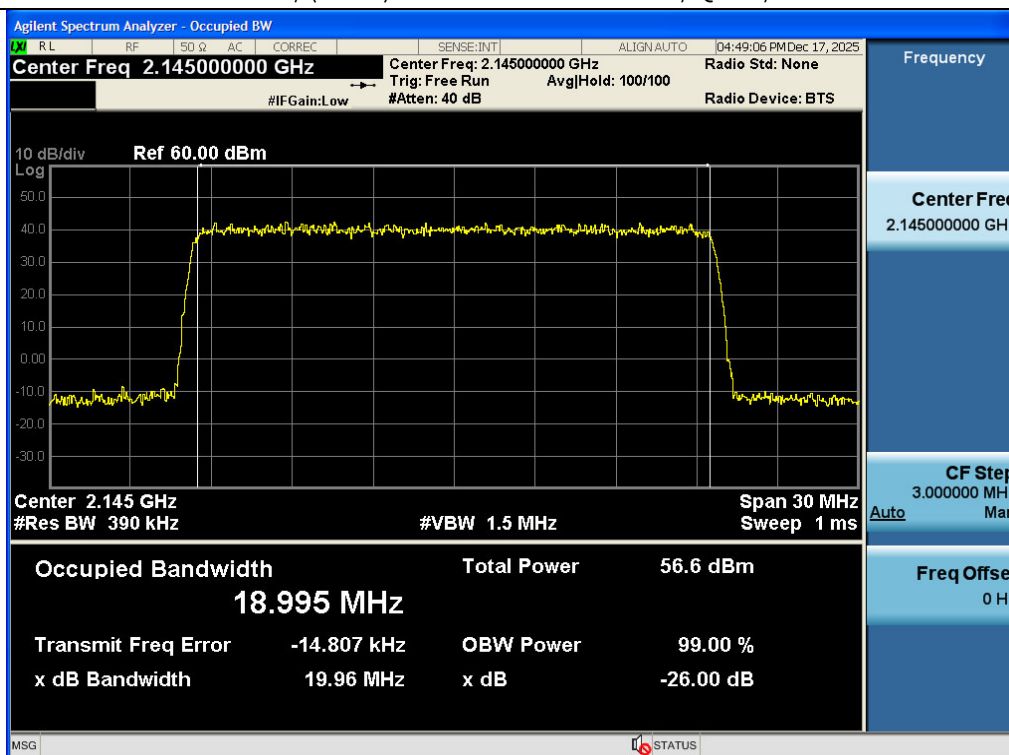
Antenna 0 / (4 Port) B66 DSS 10 MHz 1 Carrier / 256QAM / High



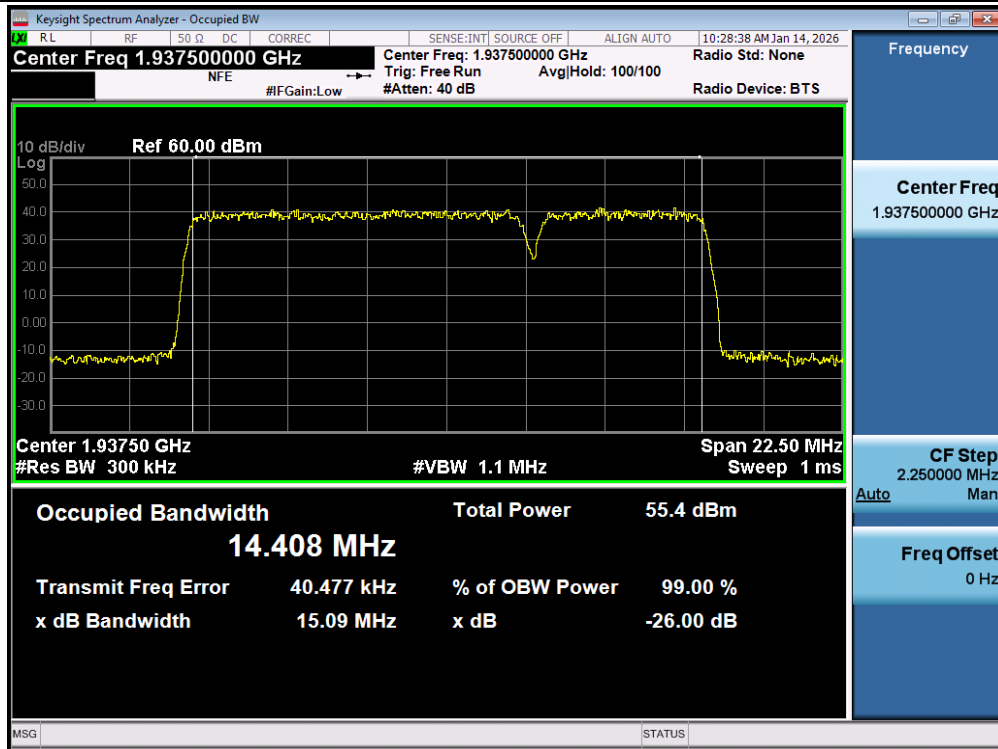
Antenna 0 / (4 Port) B66 DSS 15 MHz 1 Carrier / 256QAM / Middle



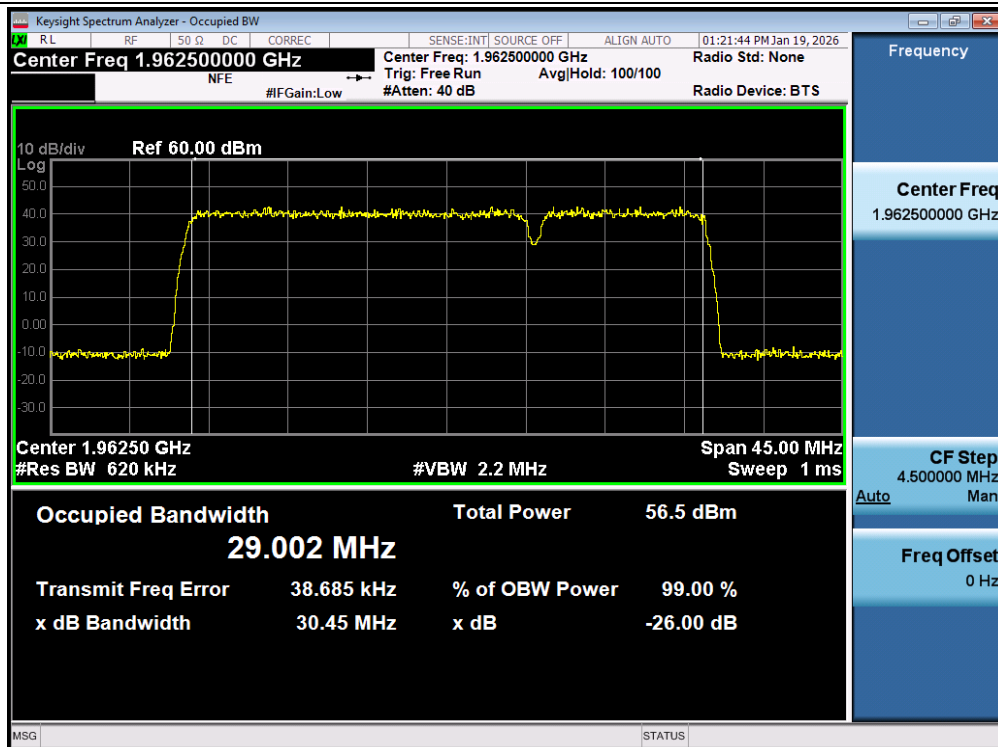
Antenna 1 / (4 Port) B66 DSS 20 MHz 1 Carrier / QPSK / Middle



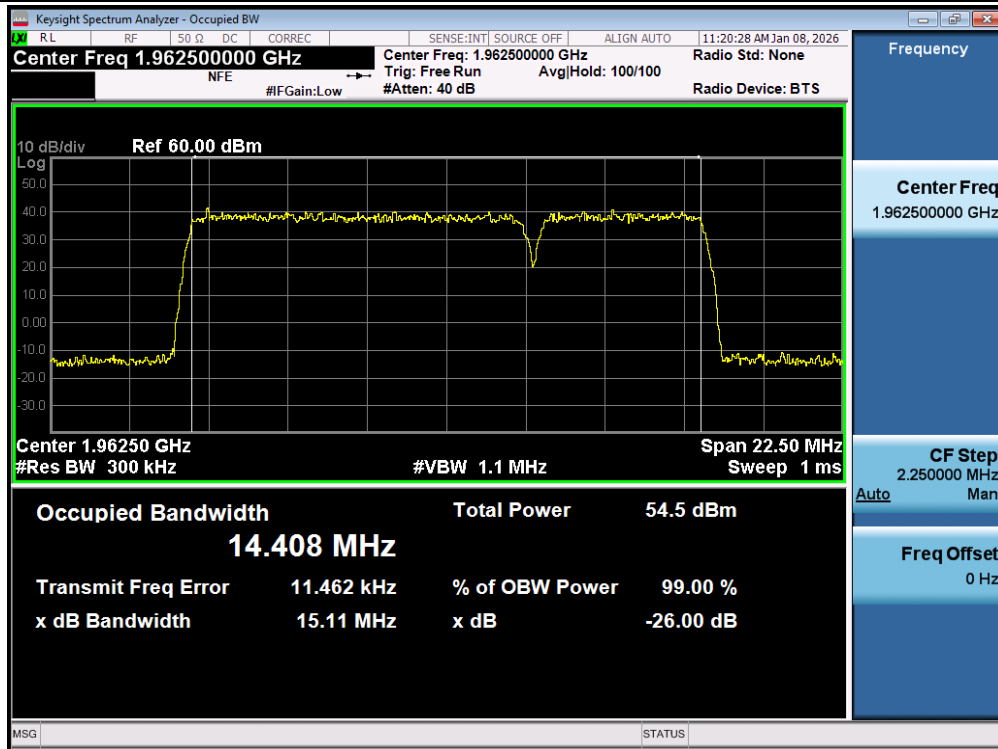
Antenna 3 / (4 Port) B25 DSS 10 MHz 1 Carrier + B25 LTE 5 MHz 1 Carrier [2 Carrier] / 256QAM / Low / Contiguous



Antenna 3 / (4 Port) B25 DSS 20 MHz 1 Carrier + B25 LTE 10 MHz 1 Carrier [2 Carrier] / 256QAM / Middle / Contiguous



Antenna 0 / (4 Port) B25 DSS 10 MHz 1 Carrier + n25 5G NR 5 MHz 1 Carrier [2 Carrier] / 256QAM / Middle / Contiguous



Antenna 1 / (4 Port) B25 DSS 10 MHz 1 Carrier + n25 5G NR 20 MHz 1 Carrier [2 Carrier] / 64QAM / High/ Contiguous

