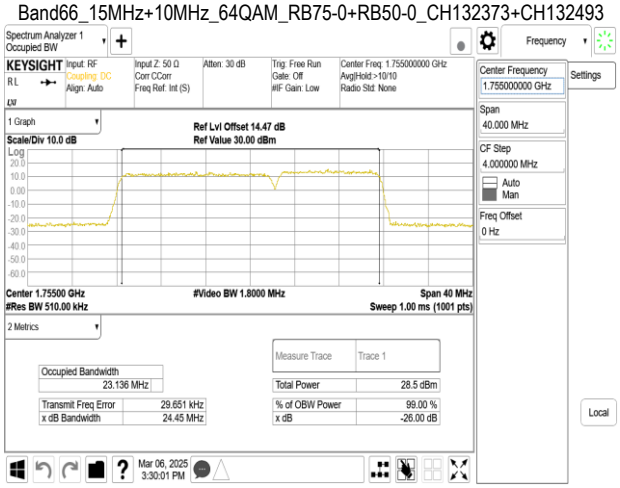
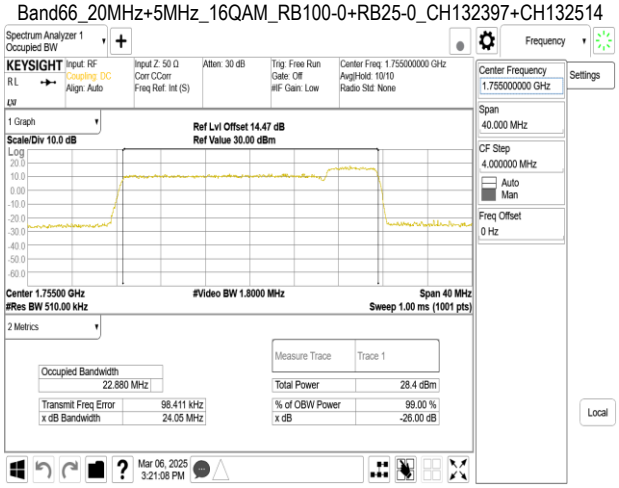
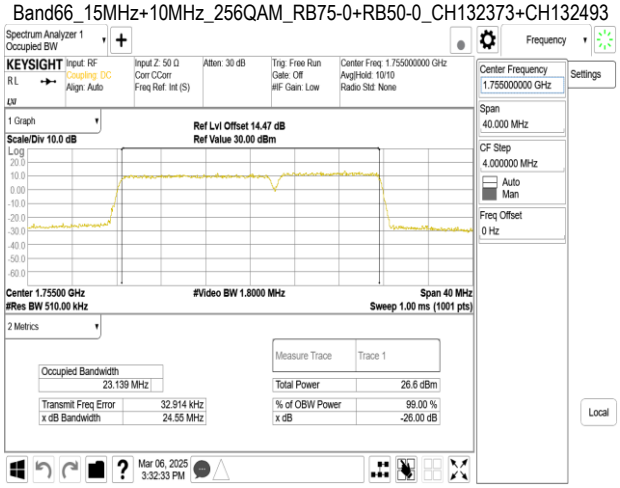
Band66_15MHz+10MHz_64QAM_RB75-0+RB50-0_CH132373+CH132493



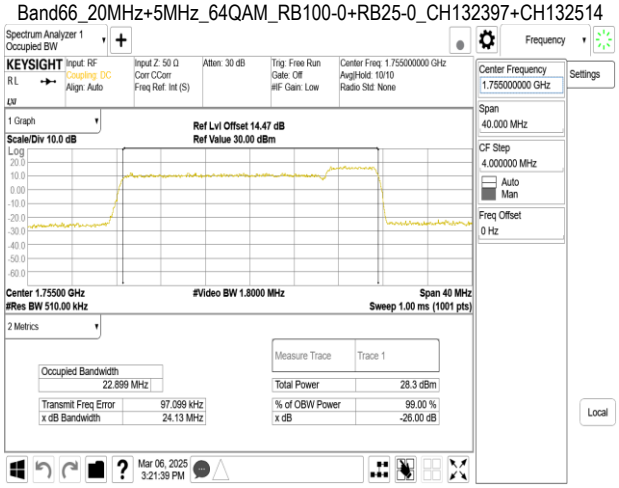
Band66_20MHz+5MHz_16QAM_RB100-0+RB25-0_CH132397+CH132514



Band66_15MHz+10MHz_256QAM_RB75-0+RB50-0_CH132373+CH132493



Band66_20MHz+5MHz_64QAM_RB100-0+RB25-0_CH132397+CH132514



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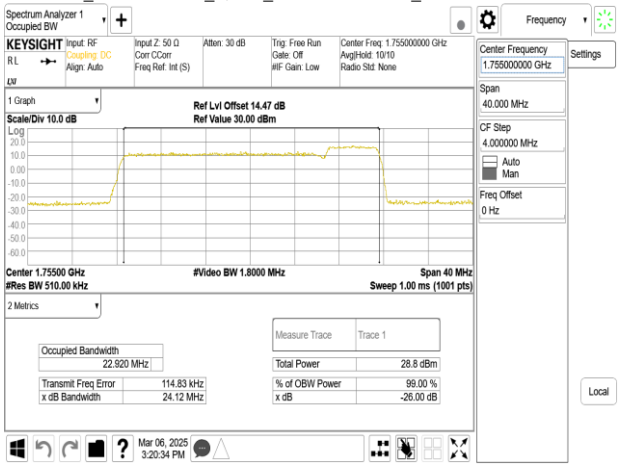
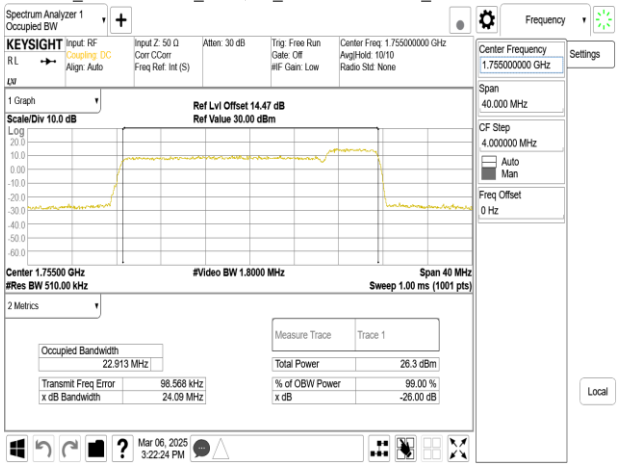


Band66_20MHz+5MHz_256QAM_RB100-0+RB25-0_CH132397+CH132514



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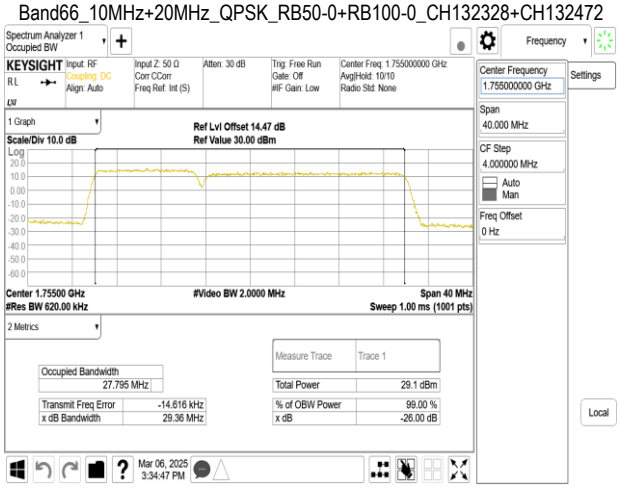
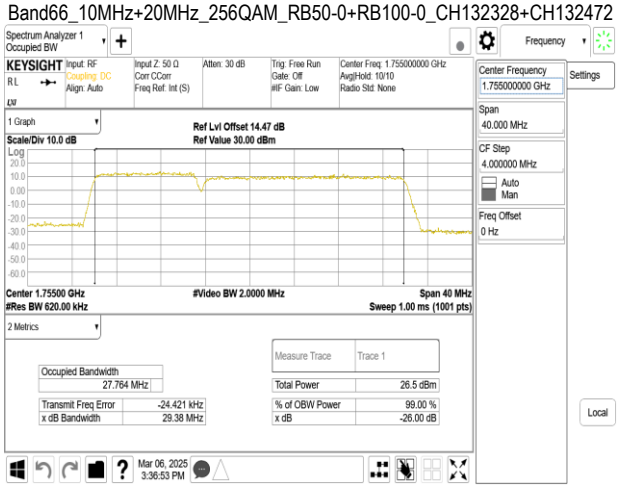
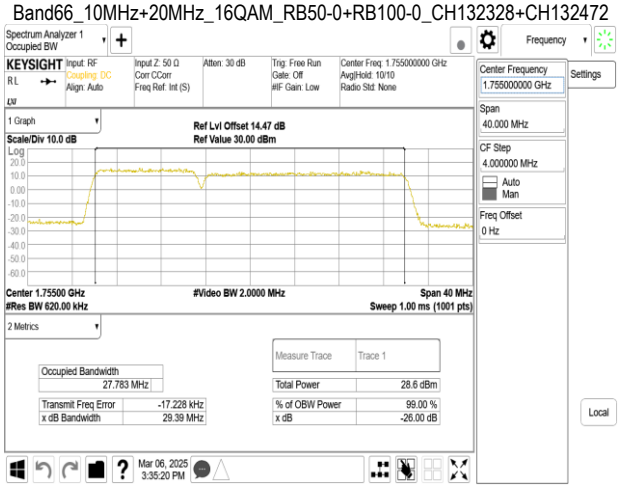
Band66_10MHz+20MHz_QPSK_RB50-0+RB100-0_CH132328+CH132472



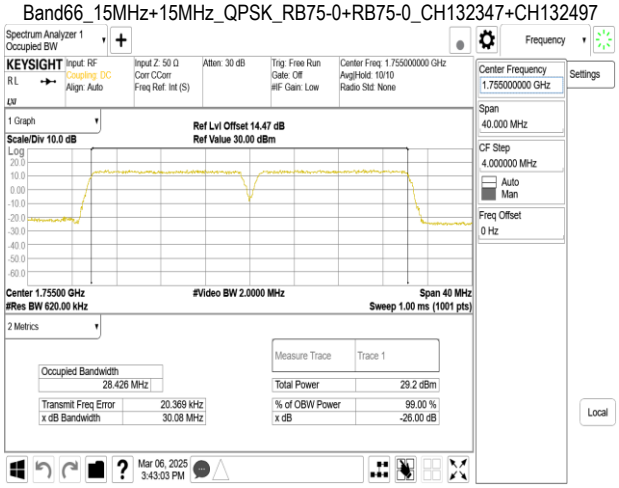
Band66_10MHz+20MHz_256QAM_RB50-0+RB100-0_CH132328+CH132472



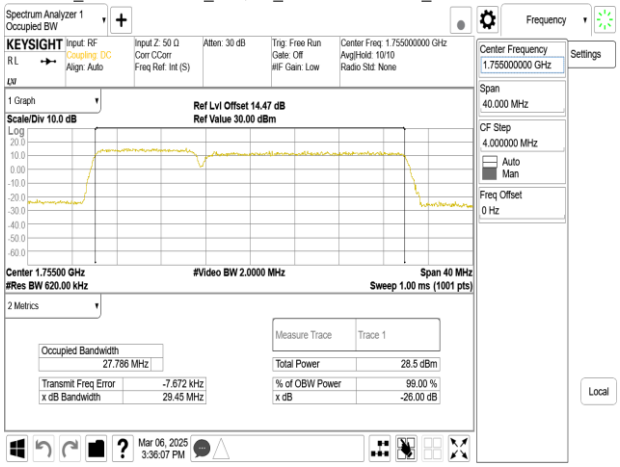
Band66_10MHz+20MHz_16QAM_RB50-0+RB100-0_CH132328+CH132472



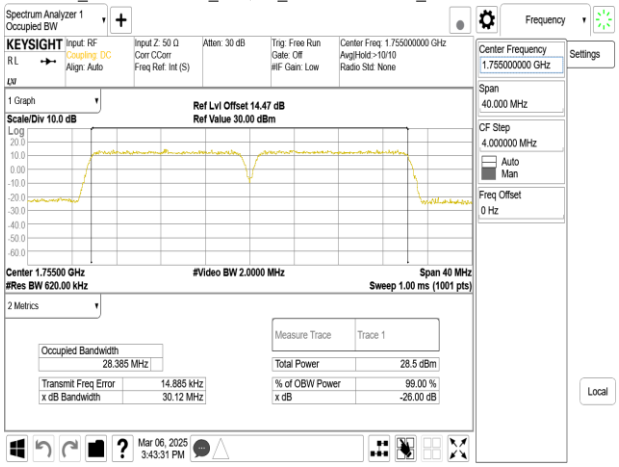
Band66_15MHz+15MHz_QPSK_RB75-0+RB75-0_CH132347+CH132497



Band66_10MHz+20MHz_64QAM_RB50-0+RB100-0_CH132328+CH132472



Band66_15MHz+15MHz_16QAM_RB75-0+RB75-0_CH132347+CH132497



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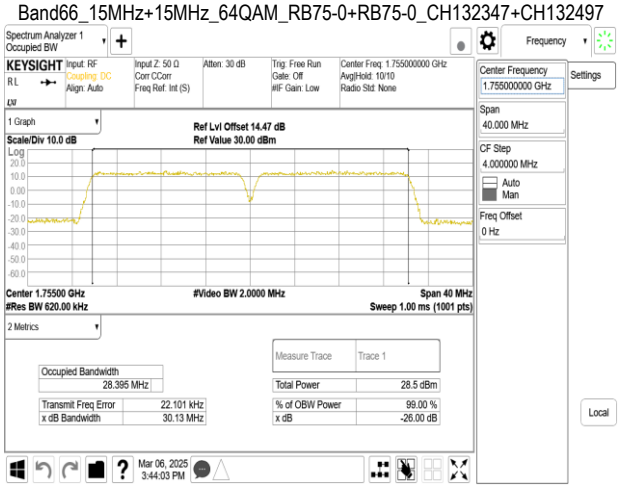
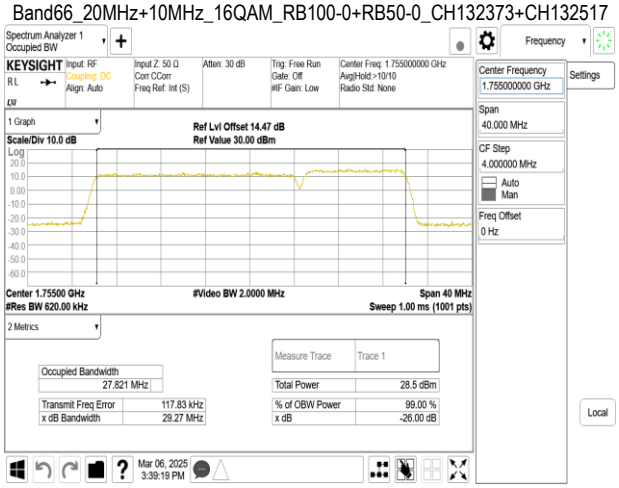
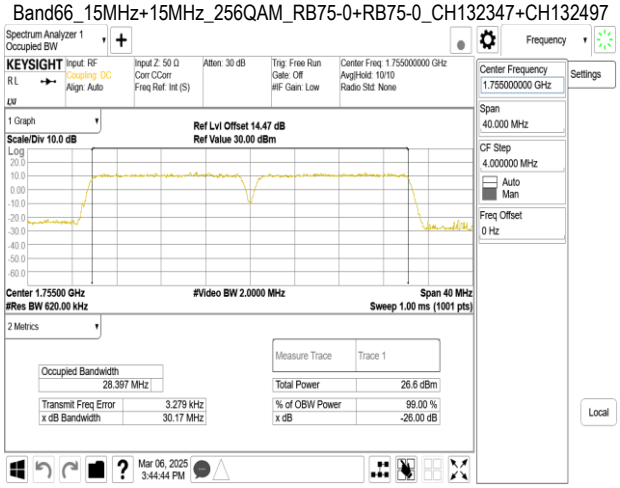
Band66_15MHz+15MHz_64QAM_RB75-0+RB75-0_CH132347+CH132497



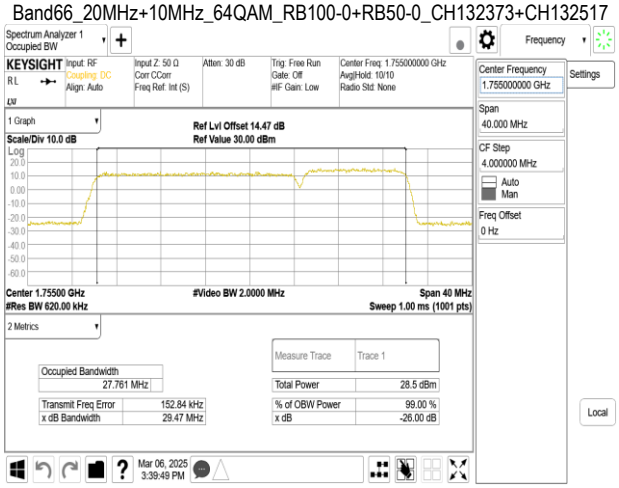
Band66_20MHz+10MHz_16QAM_RB100-0+RB50-0_CH132373+CH132517



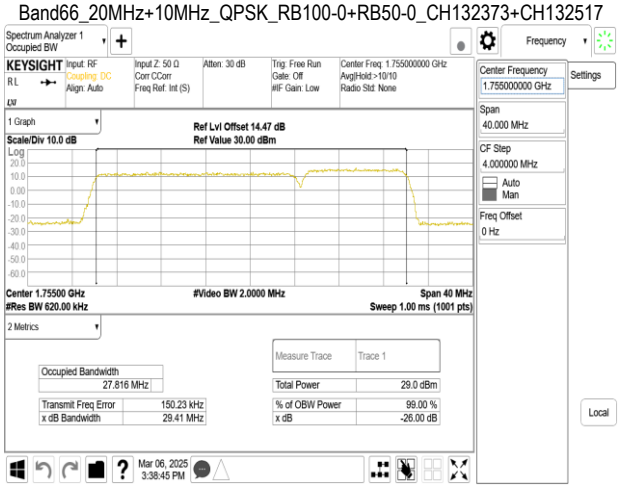
Band66_15MHz+15MHz_256QAM_RB75-0+RB75-0_CH132347+CH132497



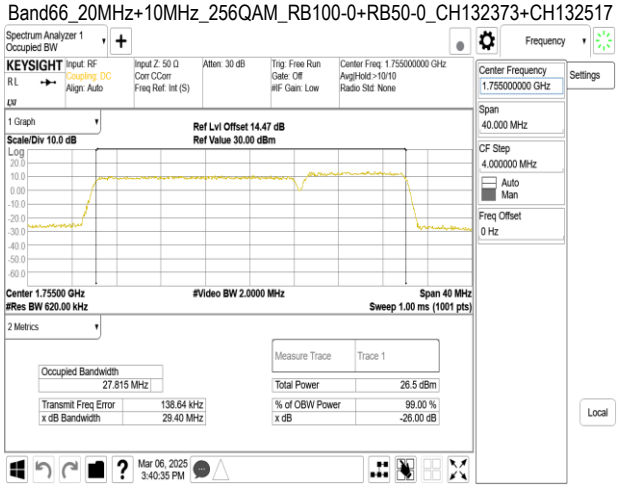
Band66_20MHz+10MHz_64QAM_RB100-0+RB50-0_CH132373+CH132517



Band66_20MHz+10MHz_QPSK_RB100-0+RB50-0_CH132373+CH132517



Band66_20MHz+10MHz_256QAM_RB100-0+RB50-0_CH132373+CH132517



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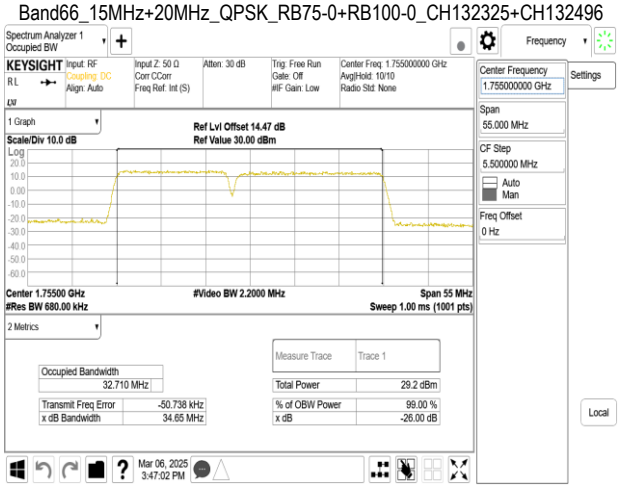
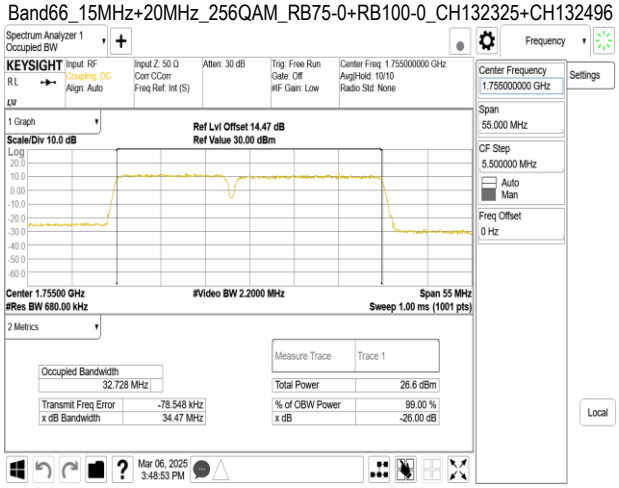
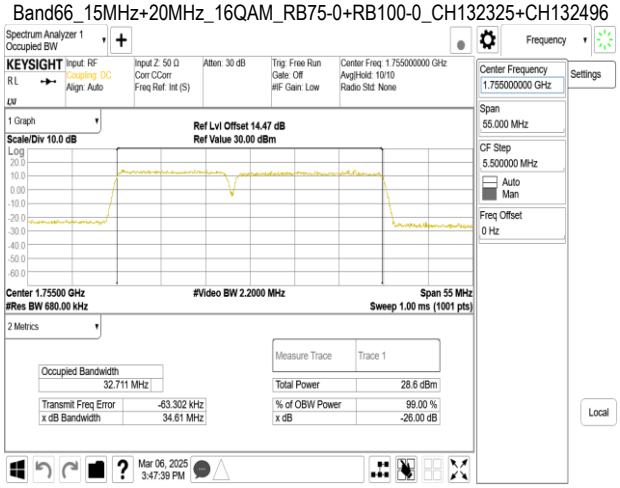
Band66_15MHz+20MHz_QPSK_RB75-0+RB100-0_CH132325+CH132496



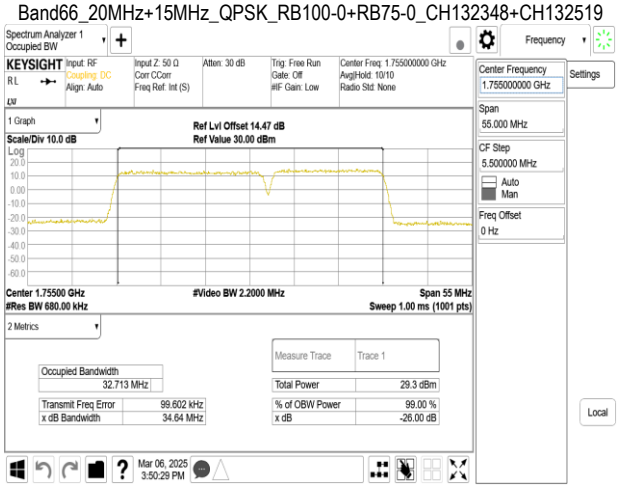
Band66_15MHz+20MHz_256QAM_RB75-0+RB100-0_CH132325+CH132496



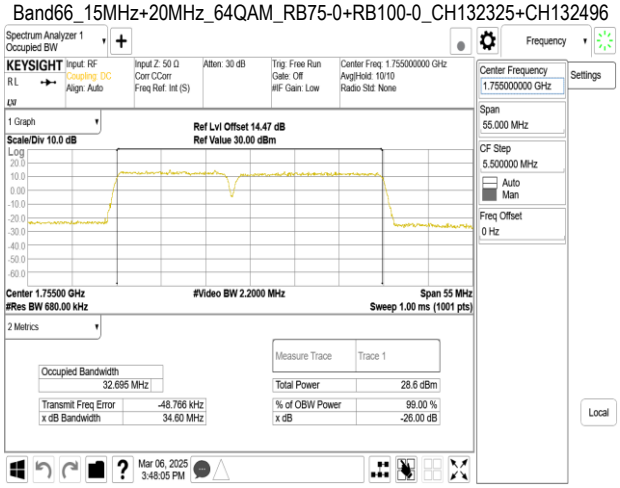
Band66_15MHz+20MHz_16QAM_RB75-0+RB100-0_CH132325+CH132496



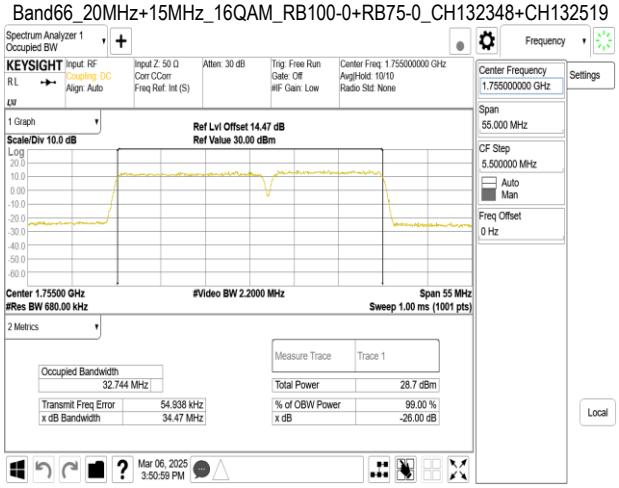
Band66_20MHz+15MHz_QPSK_RB100-0+RB75-0_CH132348+CH132519



Band66_15MHz+20MHz_64QAM_RB75-0+RB100-0_CH132325+CH132496



Band66_20MHz+15MHz_16QAM_RB100-0+RB75-0_CH132348+CH132519



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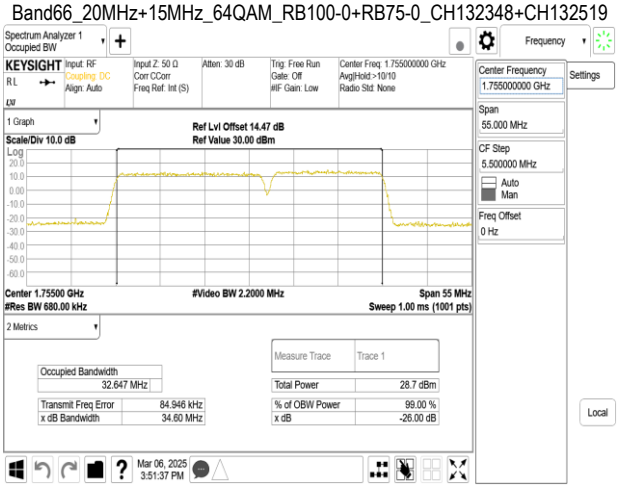
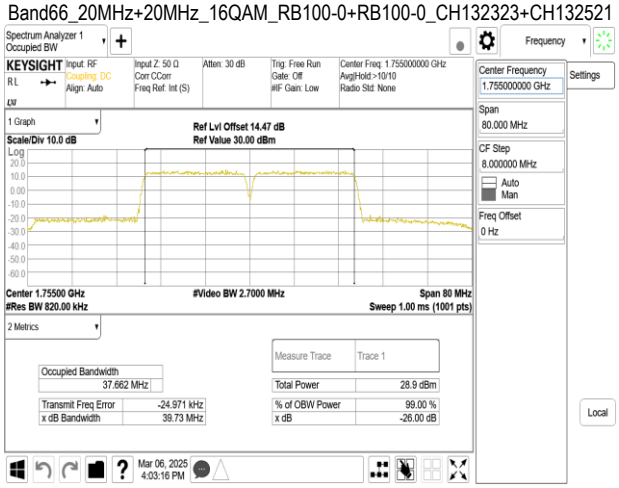
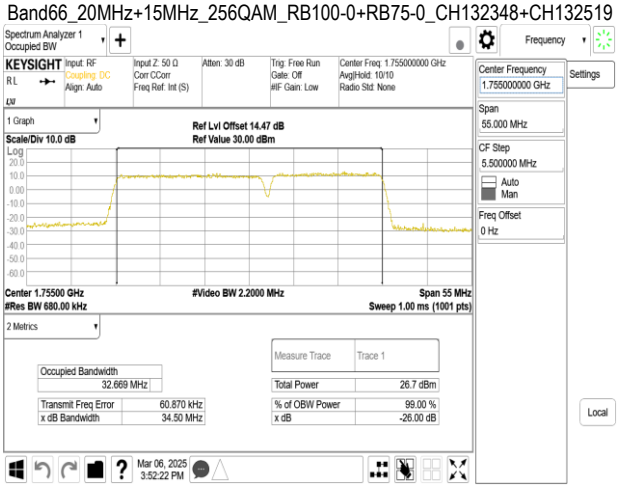
Band66_20MHz+15MHz_64QAM_RB100-0+RB75-0_CH132348+CH132519



Band66_20MHz+20MHz_16QAM_RB100-0+RB100-0_CH132323+CH132521



Band66_20MHz+15MHz_256QAM_RB100-0+RB75-0_CH132348+CH132519



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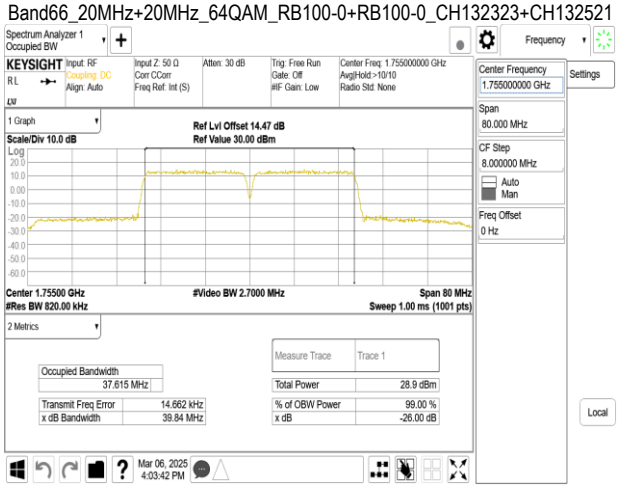
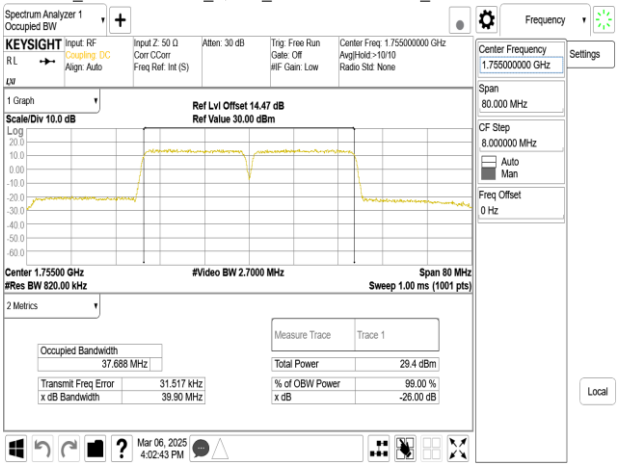
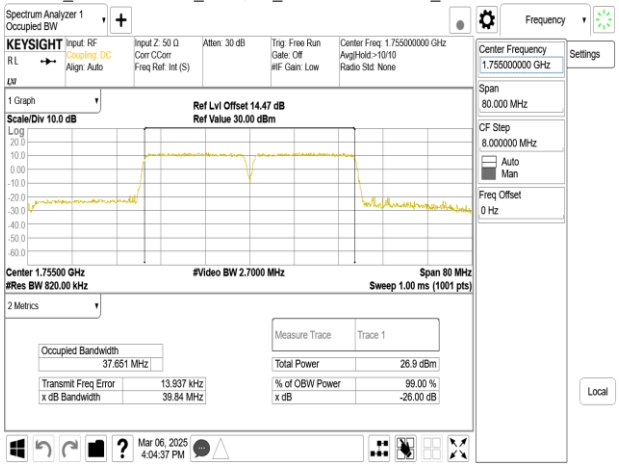


Band66_20MHz+20MHz_QPSK_RB100-0+RB100-0_CH132323+CH132521



Band66_20MHz+20MHz_256QAM_RB100-0+RB100-0_CH132323+CH132521



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9 OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1 Standard Applicable

FCC §24.238(a), §27.53(h)
RSS-133 §5.6, RSS-139 §5.6, RSS-199 §4.5

Out of band emissions.The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

FCC §27.53(h)(1)

(h) *AWS emission limits*—(1) *General protection levels.* Except as otherwise specified below, for operations 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 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 $\log_{10}$ (P) dB.

FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement nstrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

RSS-133 §5.6

Unwanted emissions shall be measured in terms of average values while the transmitter is operating at the manufacturer's rated power and modulated as specified in RSS-Gen. Equipment shall meet the unwanted emission limits, specified in table 3, outside each frequency block group. For each channel bandwidth supported by the equipment under test, the unwanted emissions shall be measured and reported for two channel frequencies: one located as close as possible to the low end and one located as close

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as possible to the high end of the equipment's operating frequency range. For the unwanted emission limits, in the 1 MHz bands immediately outside and adjacent to the frequency block group, the power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth (OBW). Beyond these 1 MHz bands, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth may be used, provided that the Personal Communications Service Equipment Operating in the Bands 1850-1915 MHz and 1930-1995 MHz RSS-133 6 measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% of the OBW, as applicable. For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors), where applicable, of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in the table 3.

Table 3: Unwanted emission limits for all equipment

Offset frequency from the edge of the frequency block group (MHz)	Unwanted emission limits
≤1	-13 dBm/(1% of OB*)
>1 MHz	-13 dBm/MHz

RSS-139 §5.6

Unwanted emissions shall be measured in terms of average values.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors) of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in table 6.

Table 6: Table 6: Unwanted emission limits	
Offset from the edge of the frequency block or frequency block group	**Unwanted emission limits**
1 MHz	-13 dBm/(1% of OB*)
>1 MHz	-13 dBm/MHz
Subscriber equipment	30 dBm e.i.r.p./channel bandwidth

*OB is the occupied bandwidth.

In addition to complying with the above limits, equipment operating in the band 2180-2200 MHz may require additional filtering (see SRSP-519).

RSS-199 §4.5

In the 1 MHz band immediately outside and adjacent to the channel edge, the unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for base station and fixed subscriber equipment, and 2% for mobile subscriber equipment. Beyond the 1 MHz band, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% or 2% of the occupied bandwidth, as applicable.
Equipment shall comply with the following unwanted emission limits:
for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least 43 + 10

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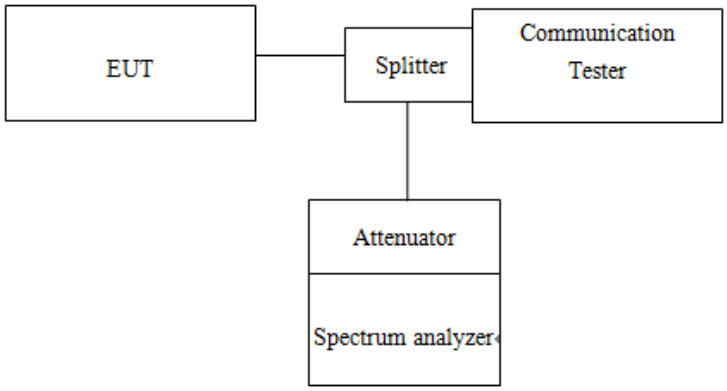
log10 p for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:

a. 40 + 10 log10 p from the channel edges to 5 MHz away
b. 43 + 10 log10 p between 5 MHz and X MHz from the channel edges, and
c. 55 + 10 log10 p at X MHz and beyond from the channel edges
d. In addition, the attenuation shall not be less than 43 + 10 log10 p on all frequencies between 2490.5 MHz and 2496 MHz, and 55 + 10 log10 p at or below 2490.5 MHz.
In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

9.2 Test SET-UP



9.3 Measurement Procedure

9.3.1 Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

9.3.2 Band Edge or Mask

1. To connect Antenna Port of EUT to Spectrum.
2. The band edge of low and high channels for the highest RF powers was measured. Setting RBW ≥ 1% EBW.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

9.4 Band Edge Measurement Result:

Refer to next pages.

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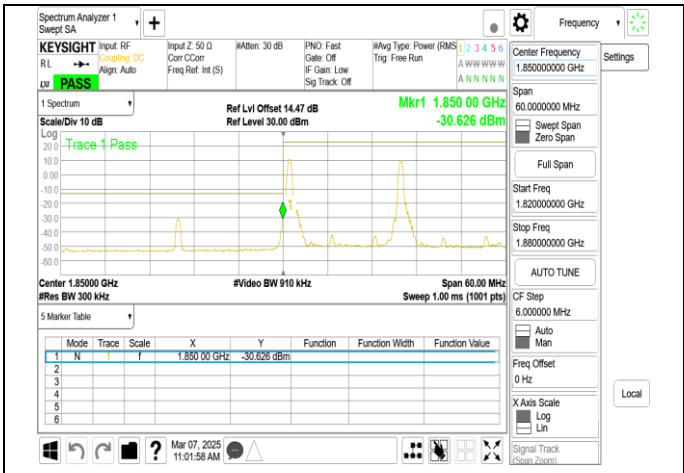
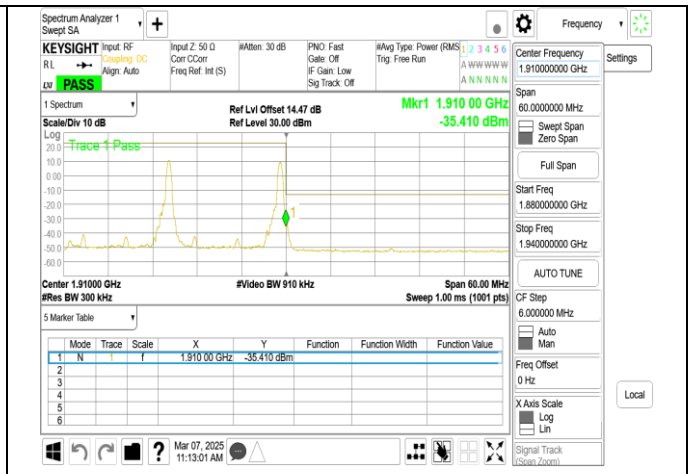
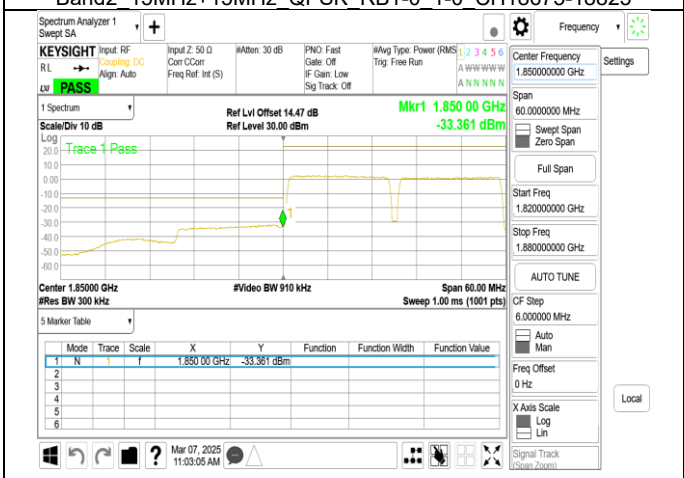


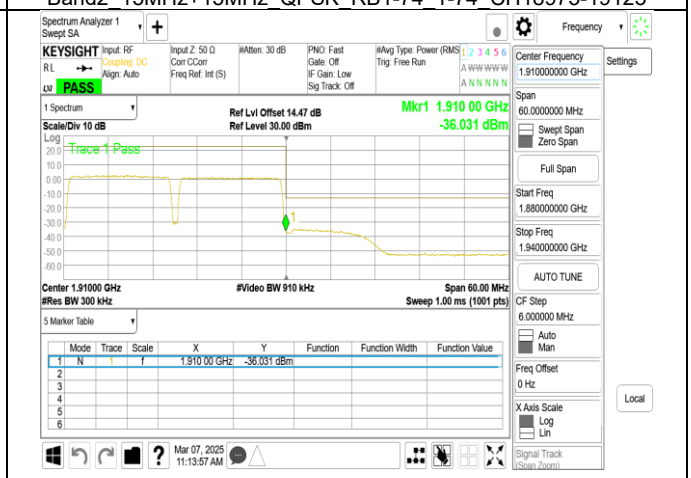
Band2_15MHz+15MHz_QPSK_RB1-0_1-0_CH18675-18825



Band2_15MHz+15MHz_QPSK_RB1-74_1-74_CH18975-19125

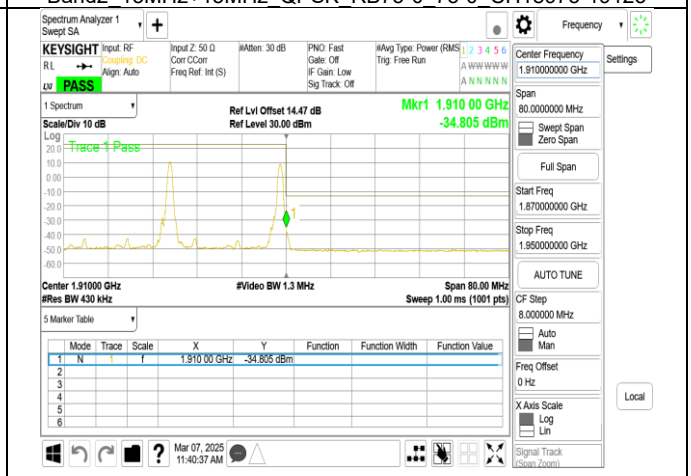


Band2_15MHz+15MHz_QPSK_RB75-0_75-0_CH18675-18825



Band2_15MHz+15MHz_QPSK_RB75-0_75-0_CH18975-19125

Band2_20MHz+20MHz_QPSK_RB1-0_1-0_CH18700-18898



Band2_20MHz+20MHz_QPSK_RB1-99_1-99_CH18902-19100

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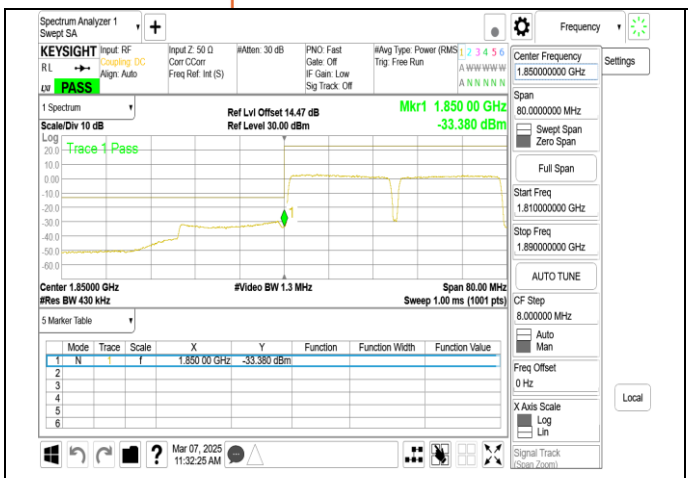
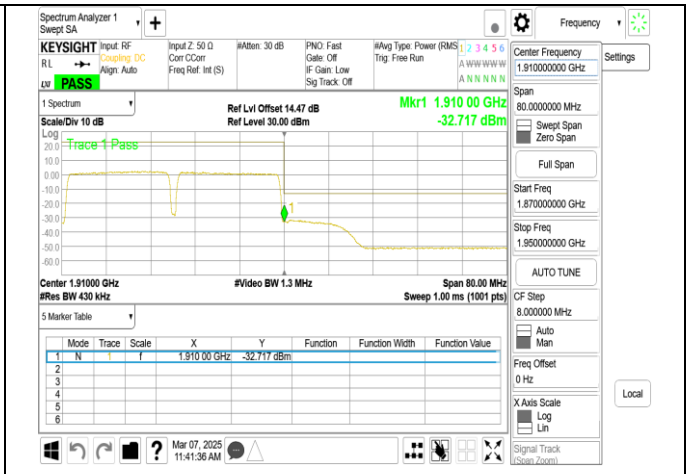


Band2_20MHz+20MHz_QPSK_RB100-0_100-0_CH18700-18898

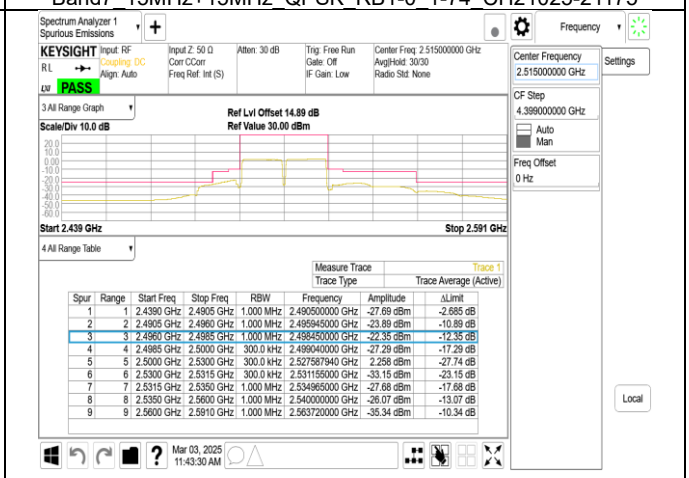


Band2_20MHz+20MHz_QPSK_RB100-0_100-0_CH18902-19100

Band7_15MHz+15MHz_QPSK_RB1-0_1-74_CH20825-20975

Band7_15MHz+15MHz_QPSK_RB1-0_1-74_CH21025-21175

Band7_15MHz+15MHz_QPSK_RB1-0_1-74_CH21225-21375



Band7_15MHz+15MHz_QPSK_RB75-0_75-0_CH20825-20975

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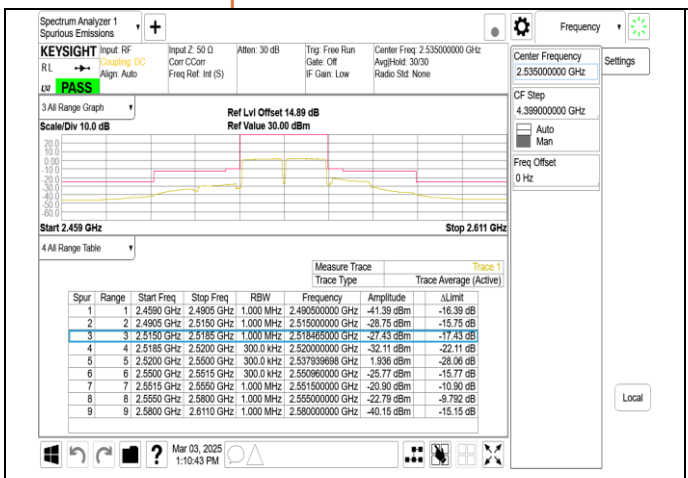

Band7_15MHz+15MHz_QPSK_RB75-0_75-0_CH21025-21175

Band7_15MHz+15MHz_QPSK_RB75-0_75-0_CH21225-21375

Band7_20MHz+20MHz_QPSK_RB1-0_1-99_CH20850-21048

Band7_20MHz+20MHz_QPSK_RB1-0_1-99_CH21001-21199

Band7_20MHz+20MHz_QPSK_RB1-0_1-99_CH21152-21350

Band7_20MHz+20MHz_QPSK_RB100-0_100-0_CH20850-21048

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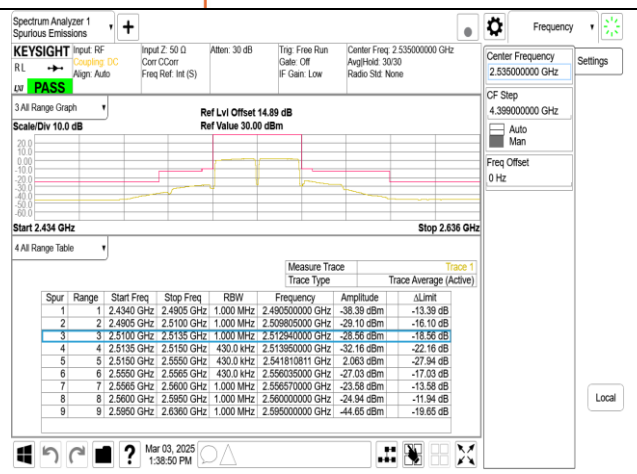
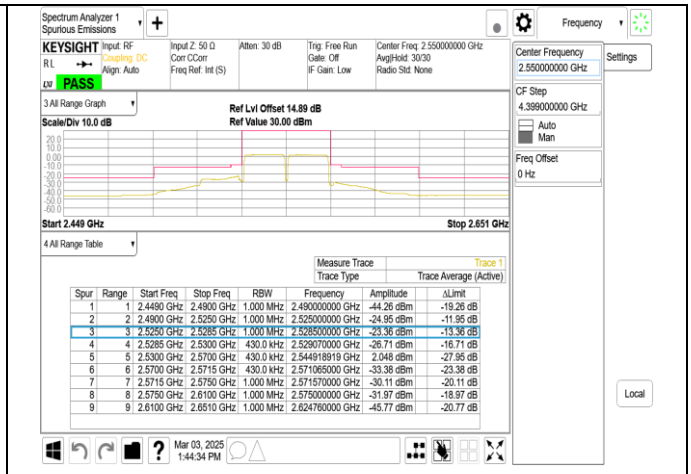
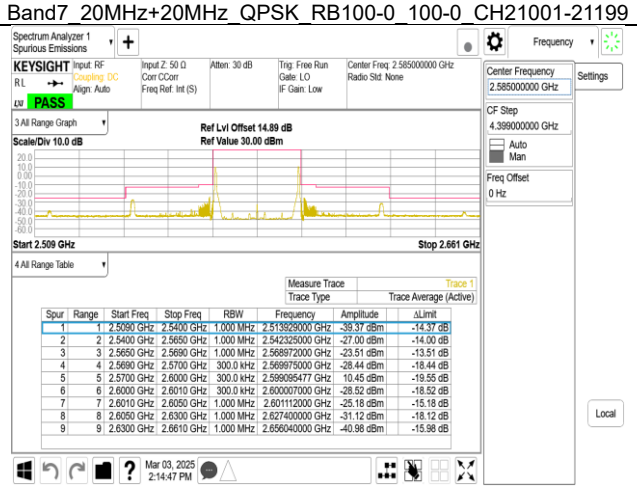


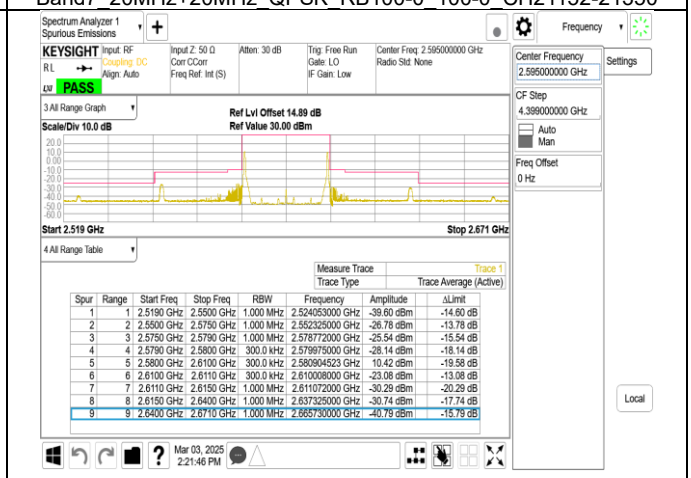
Band7_20MHz+20MHz_QPSK_RB100-0_100-0_CH21001-21199



Band7_20MHz+20MHz_QPSK_RB100-0_100-0_CH21152-21350



Band38_15MHz+15MHz_QPSK_RB1-0_1-74_CH37825-37975



Band38_15MHz+15MHz_QPSK_RB1-0_1-74_CH37925-38075

Band38_15MHz+15MHz_QPSK_RB1-0_1-74_CH38025-38175

Band38_15MHz+15MHz_QPSK_RB75-0_75-0_CH37825-37975

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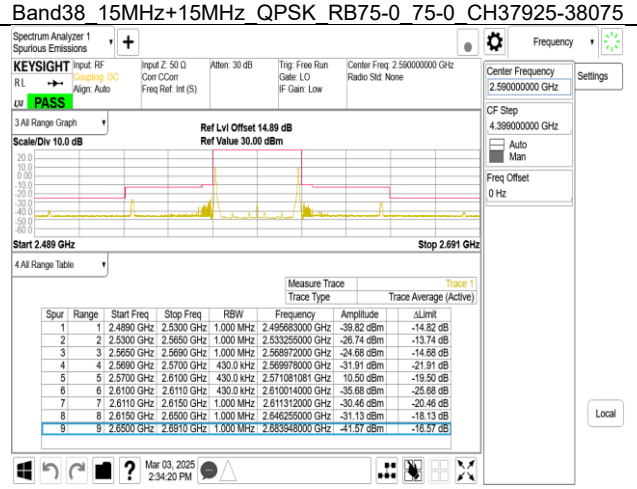
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	2.5190 GHz	2.5500 GHz	1.000 MHz	2.548233000 GHz	-37.95 dBm	-12.95 dB
2	2	2.5500 GHz	2.5750 GHz	1.000 MHz	2.574325000 GHz	-30.19 dBm	-17.19 dB
3	3	2.5750 GHz	2.5790 GHz	1.000 MHz	2.576108000 GHz	-23.88 dBm	-13.88 dB
4	4	2.5790 GHz	2.5800 GHz	300.0 kHz	2.579989000 GHz	-32.94 dBm	-22.94 dB
5	5	2.5800 GHz	2.6100 GHz	300.0 kHz	2.590854271 GHz	2.513 dBm	-27.49 dB
6	6	2.6100 GHz	2.6110 GHz	300.0 kHz	2.610009000 GHz	-33.45 dBm	-23.45 dB
7	7	2.6110 GHz	2.6150 GHz	1.000 MHz	2.612984000 GHz	-28.17 dBm	-18.17 dB
8	8	2.6150 GHz	2.6400 GHz	1.000 MHz	2.617200000 GHz	-30.91 dBm	-17.91 dB
9	9	2.6400 GHz	2.6710 GHz	1.000 MHz	2.642418000 GHz	-39.71 dBm	-14.71 dB

Band38_15MHz+15MHz_QPSK_RB75-0_75-0_CH37925-38075

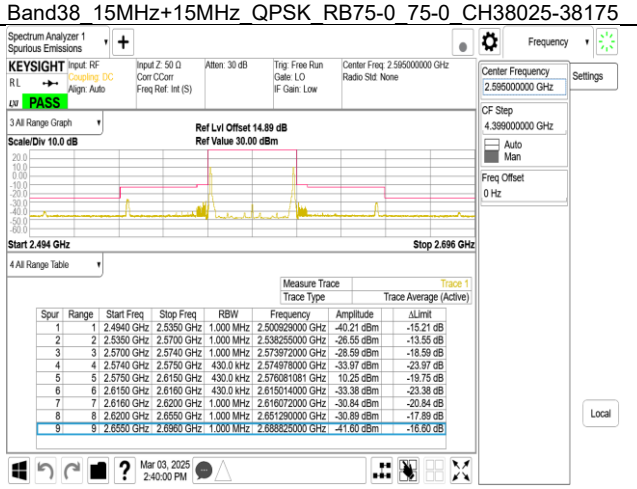
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	2.5290 GHz	2.5600 GHz	1.000 MHz	2.557923000 GHz	-37.27 dBm	-12.27 dB
2	2	2.5600 GHz	2.5850 GHz	1.000 MHz	2.582575000 GHz	-28.31 dBm	-15.31 dB
3	3	2.5850 GHz	2.5890 GHz	1.000 MHz	2.587936000 GHz	-23.72 dBm	-13.72 dB
4	4	2.5890 GHz	2.5900 GHz	300.0 kHz	2.589999000 GHz	-34.69 dBm	-24.69 dB
5	5	2.5900 GHz	2.6200 GHz	300.0 kHz	2.600854271 GHz	2.548 dBm	-27.45 dB
6	6	2.6200 GHz	2.6210 GHz	300.0 kHz	2.620023000 GHz	-35.22 dBm	-25.22 dB
7	7	2.6210 GHz	2.6250 GHz	1.000 MHz	2.621828000 GHz	-28.29 dBm	-18.29 dB
8	8	2.6250 GHz	2.6500 GHz	1.000 MHz	2.625700000 GHz	-31.45 dBm	-18.45 dB
9	9	2.6500 GHz	2.6810 GHz	1.000 MHz	2.653658000 GHz	-38.61 dBm	-13.61 dB

Band38_15MHz+15MHz_QPSK_RB75-0_75-0_CH38025-38175



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	2.4890 GHz	2.5300 GHz	1.000 MHz	2.495683000 GHz	-39.82 dBm	-14.82 dB
2	2	2.5300 GHz	2.5650 GHz	1.000 MHz	2.533255000 GHz	-26.74 dBm	-13.74 dB
3	3	2.5650 GHz	2.5690 GHz	1.000 MHz	2.568972000 GHz	-24.68 dBm	-14.68 dB
4	4	2.5690 GHz	2.5700 GHz	430.0 kHz	2.569978000 GHz	-31.91 dBm	-21.91 dB
5	5	2.5700 GHz	2.6100 GHz	430.0 kHz	2.571081081 GHz	10.50 dBm	-19.50 dB
6	6	2.6100 GHz	2.6110 GHz	430.0 kHz	2.610014000 GHz	-35.68 dBm	-25.68 dB
7	7	2.6110 GHz	2.6150 GHz	1.000 MHz	2.611312000 GHz	-30.46 dBm	-20.46 dB
8	8	2.6150 GHz	2.6500 GHz	1.000 MHz	2.646255000 GHz	-31.13 dBm	-18.13 dB
9	9	2.6500 GHz	2.6910 GHz	1.000 MHz	2.683948000 GHz	-41.57 dBm	-16.57 dB

Band38_20MHz+20MHz_QPSK_RB1-0_1-99_CH37850-38048



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	2.4940 GHz	2.5350 GHz	1.000 MHz	2.500929000 GHz	-40.21 dBm	-15.21 dB
2	2	2.5350 GHz	2.5700 GHz	1.000 MHz	2.538255000 GHz	-26.55 dBm	-13.55 dB
3	3	2.5700 GHz	2.5740 GHz	1.000 MHz	2.573972000 GHz	-28.59 dBm	-18.59 dB
4	4	2.5740 GHz	2.5750 GHz	430.0 kHz	2.574978000 GHz	-33.97 dBm	-23.97 dB
5	5	2.5750 GHz	2.6150 GHz	430.0 kHz	2.576081081 GHz	10.25 dBm	-19.75 dB
6	6	2.6150 GHz	2.6160 GHz	430.0 kHz	2.615014000 GHz	-33.38 dBm	-23.38 dB
7	7	2.6160 GHz	2.6200 GHz	1.000 MHz	2.616072000 GHz	-30.84 dBm	-20.84 dB
8	8	2.6200 GHz	2.6550 GHz	1.000 MHz	2.651290000 GHz	-30.89 dBm	-17.89 dB
9	9	2.6550 GHz	2.6960 GHz	1.000 MHz	2.688825000 GHz	-41.60 dBm	-16.60 dB

Band38_20MHz+20MHz_QPSK_RB1-0_1-99_CH37901-38099

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	2.4990 GHz	2.5400 GHz	1.000 MHz	2.506134000 GHz	-39.70 dBm	-14.70 dB
2	2	2.5400 GHz	2.5750 GHz	1.000 MHz	2.543605000 GHz	-26.34 dBm	-13.34 dB
3	3	2.5750 GHz	2.5790 GHz	1.000 MHz	2.577976000 GHz	-28.05 dBm	-18.05 dB
4	4	2.5790 GHz	2.5800 GHz	430.0 kHz	2.579978000 GHz	-36.04 dBm	-26.04 dB
5	5	2.5800 GHz	2.6200 GHz	430.0 kHz	2.581297297 GHz	10.53 dBm	-19.47 dB
6	6	2.6200 GHz	2.6210 GHz	430.0 kHz	2.620024000 GHz	-31.12 dBm	-21.12 dB
7	7	2.6210 GHz	2.6250 GHz	1.000 MHz	2.621072000 GHz	-26.74 dBm	-16.74 dB
8	8	2.6250 GHz	2.6600 GHz	1.000 MHz	2.656255000 GHz	-30.31 dBm	-17.31 dB
9	9	2.6600 GHz	2.7010 GHz	1.000 MHz	2.693989000 GHz	-41.47 dBm	-16.47 dB

Band38_20MHz+20MHz_QPSK_RB1-0_1-99_CH37952-38150

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	2.4890 GHz	2.5300 GHz	1.000 MHz	2.521021000 GHz	-39.30 dBm	-14.30 dB
2	2	2.5300 GHz	2.5650 GHz	1.000 MHz	2.563250000 GHz	-30.32 dBm	-17.32 dB
3	3	2.5650 GHz	2.5690 GHz	1.000 MHz	2.568376000 GHz	-27.95 dBm	-17.95 dB
4	4	2.5690 GHz	2.5700 GHz	430.0 kHz	2.569246000 GHz	-34.51 dBm	-24.51 dB
5	5	2.5700 GHz	2.6100 GHz	430.0 kHz	2.579081081 GHz	2.140 dBm	-27.86 dB
6	6	2.6100 GHz	2.6110 GHz	430.0 kHz	2.610847000 GHz	-34.81 dBm	-24.81 dB
7	7	2.6110 GHz	2.6150 GHz	1.000 MHz	2.611592000 GHz	-28.67 dBm	-18.67 dB
8	8	2.6150 GHz	2.6500 GHz	1.000 MHz	2.615315000 GHz	-32.77 dBm	-19.77 dB
9	9	2.6500 GHz	2.6910 GHz	1.000 MHz	2.651148000 GHz	-41.08 dBm	-16.08 dB

Band38_20MHz+20MHz_QPSK_RB100-0_100-0_CH37850-38048

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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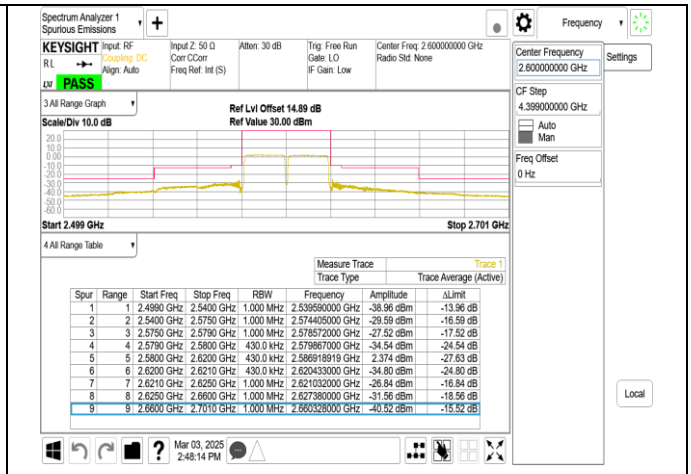
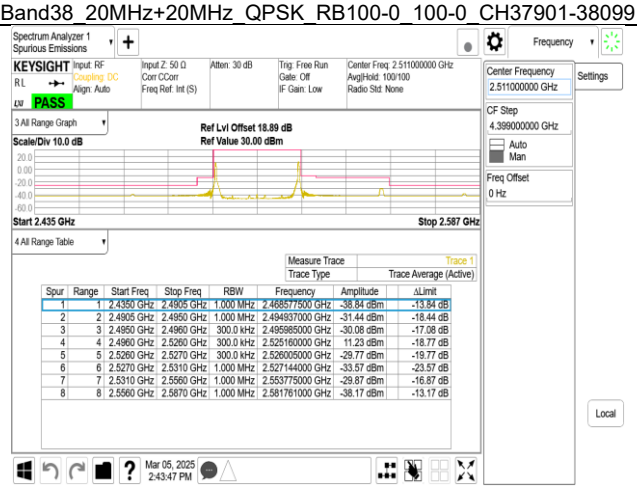
Band38_20MHz+20MHz_QPSK_RB100-0_100-0_CH37901-38099

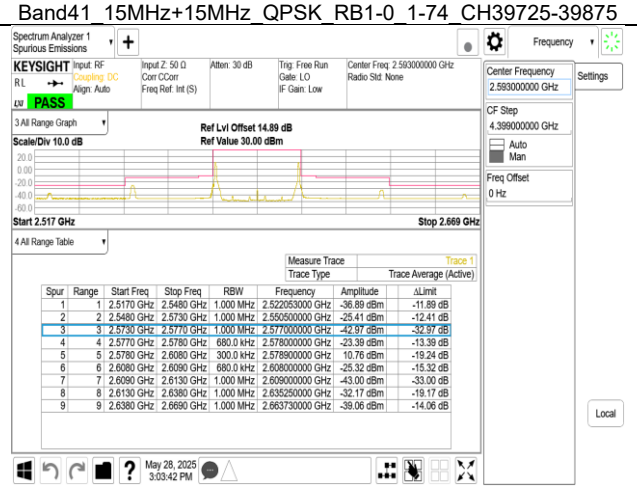


Band38_20MHz+20MHz_QPSK_RB100-0_100-0_CH37952-38150

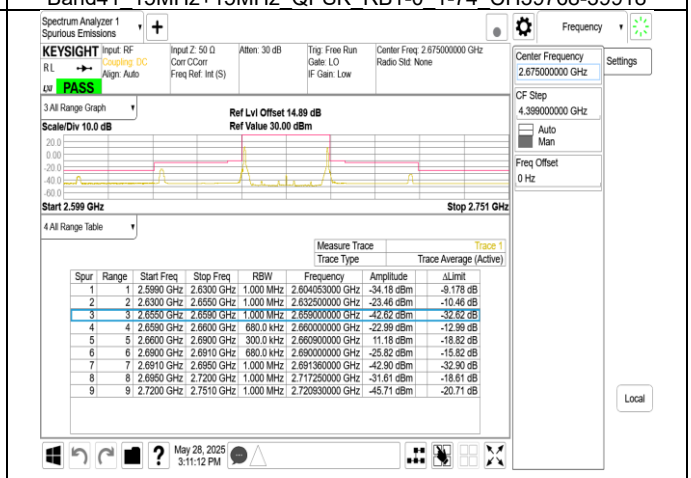


Band41_15MHz+15MHz_QPSK_RB1-0_1-74_CH39725-39875

Band41_15MHz+15MHz_QPSK_RB1-0_1-74_CH39768-39918



Band41_15MHz+15MHz_QPSK_RB1-0_1-74_CH40545-40695



Band41_15MHz+15MHz_QPSK_RB1-0_1-74_CH41365-41515

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