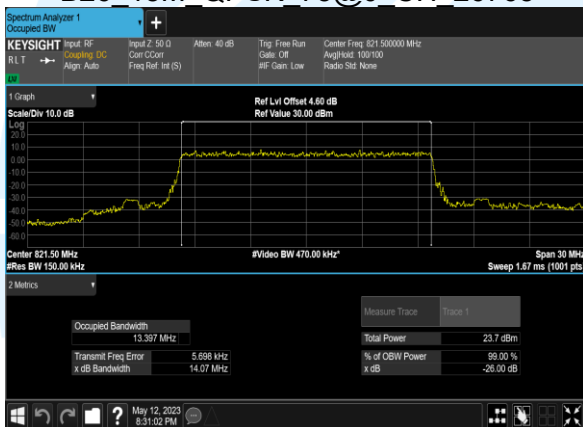


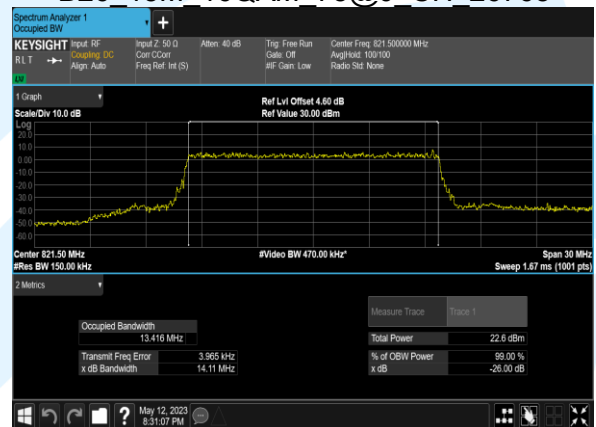
5.5.8 LTE Band 26 (Part 90S)

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
26	15.0	26765	821.5	QPSK	75@0	13.397	14.07
26	15.0	26765	821.5	16QAM	75@0	13.416	14.11
26	10.0	26740	819.0	QPSK	50@0	8.9243	9.462
26	10.0	26740	819.0	16QAM	50@0	8.9424	9.396
26	5.0	26715	816.5	QPSK	25@0	4.4509	4.768
26	5.0	26715	816.5	16QAM	25@0	4.4607	4.808
26	5.0	26740	819.0	QPSK	25@0	4.4578	4.821
26	5.0	26740	819.0	16QAM	25@0	4.4597	4.756
26	5.0	26765	821.5	QPSK	25@0	4.4667	4.792
26	5.0	26765	821.5	16QAM	25@0	4.4523	4.793
26	3.0	26705	815.5	QPSK	15@0	2.6811	2.834
26	3.0	26705	815.5	16QAM	15@0	2.6744	2.850
26	3.0	26740	819.0	QPSK	15@0	2.6786	2.836
26	3.0	26740	819.0	16QAM	15@0	2.6726	2.851
26	3.0	26775	822.5	QPSK	15@0	2.6753	2.841
26	3.0	26775	822.5	16QAM	15@0	2.6711	2.838
26	1.4	26697	814.7	QPSK	6@0	1.0758	1.221
26	1.4	26697	814.7	16QAM	6@0	1.0745	1.225
26	1.4	26740	819.0	QPSK	6@0	1.0781	1.238
26	1.4	26740	819.0	16QAM	6@0	1.0774	1.256
26	1.4	26783	823.3	QPSK	6@0	1.0801	1.231
26	1.4	26783	823.3	16QAM	6@0	1.0737	1.225

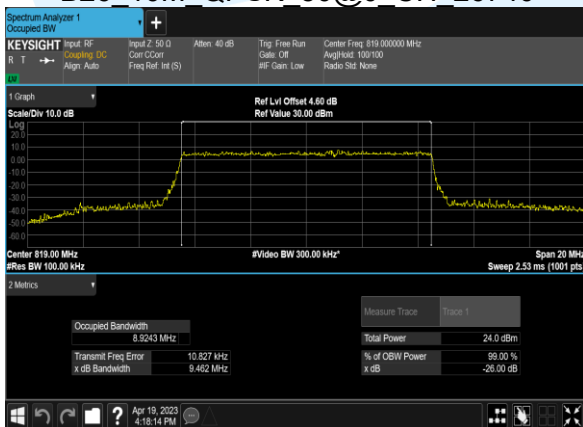
B26 15M QPSK 75@0 CH 26765



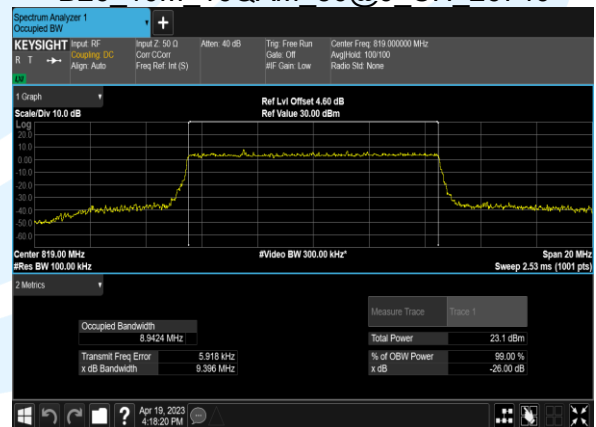
B26 15M 16QAM 75@0 CH 26765



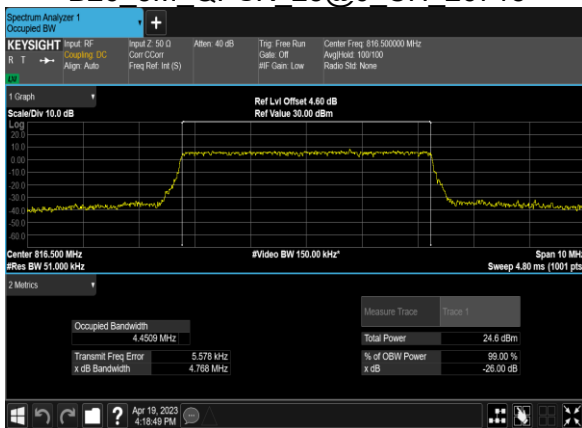
B26 10M QPSK 50@0 CH 26740



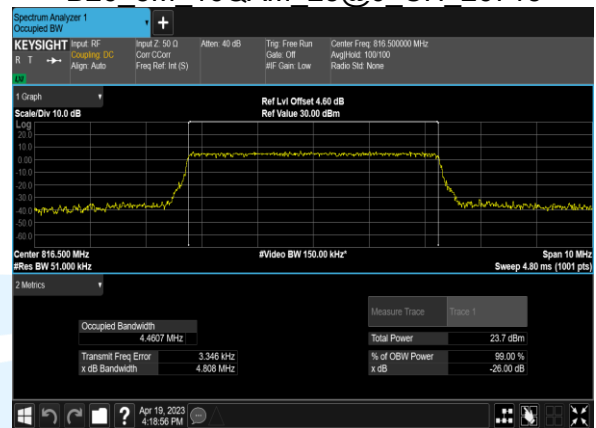
B26 10M 16QAM 50@0 CH 26740



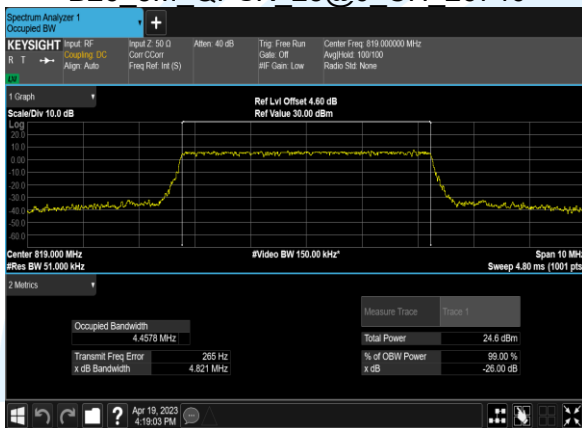
B26 5M QPSK 25@0 CH 26715



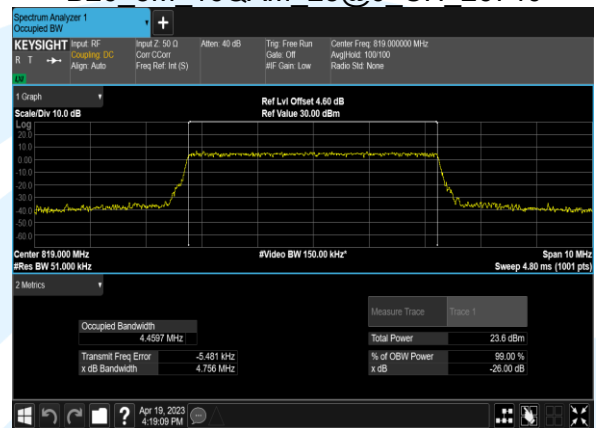
B26 5M 16QAM 25@0 CH 26715



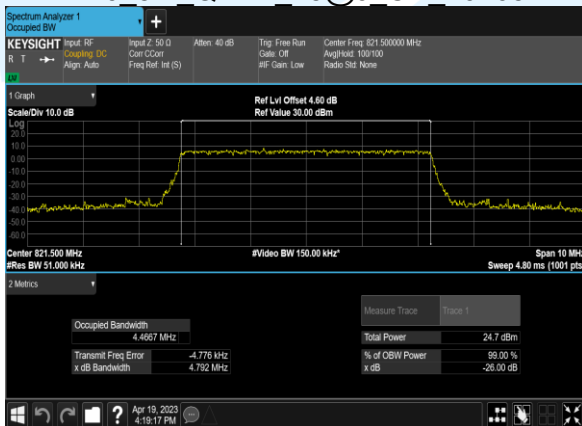
B26 5M QPSK 25@0 CH 26740



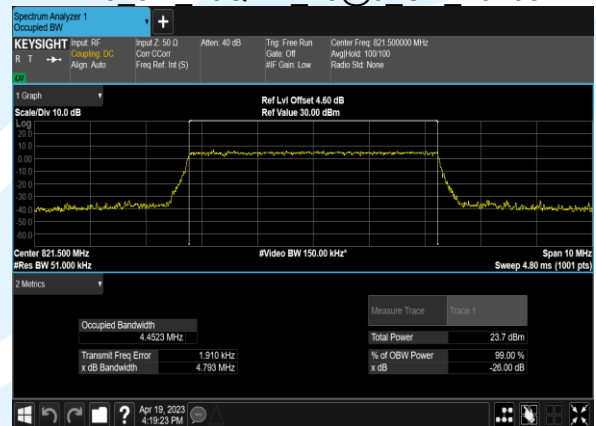
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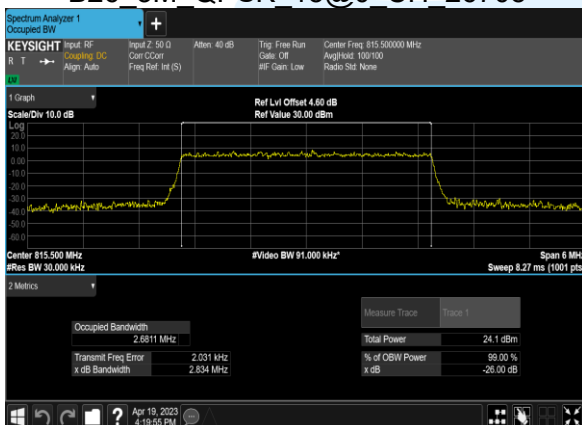
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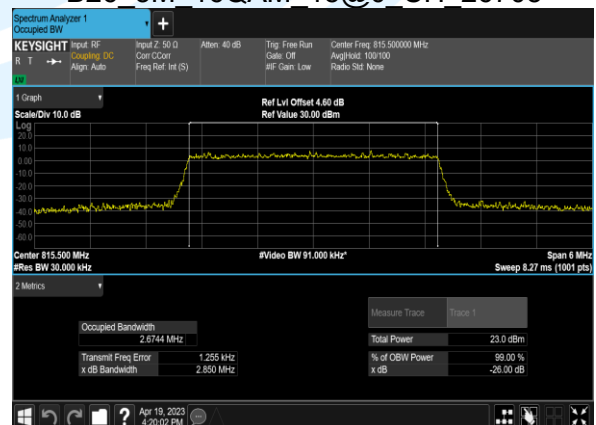
B26 5M 16QAM 25@0 CH 26765



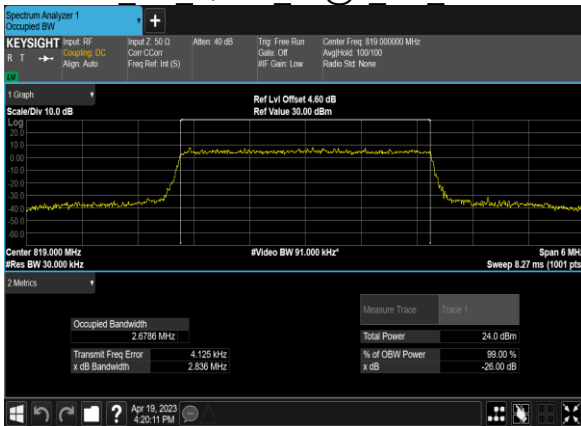
B26 3M QPSK 15@0 CH 26705



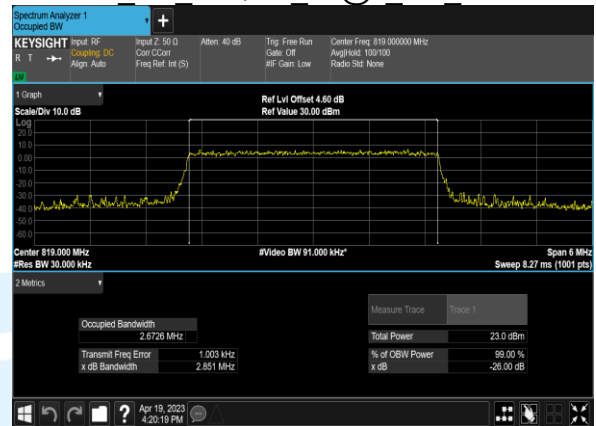
B26 3M 16QAM 15@0 CH 26705



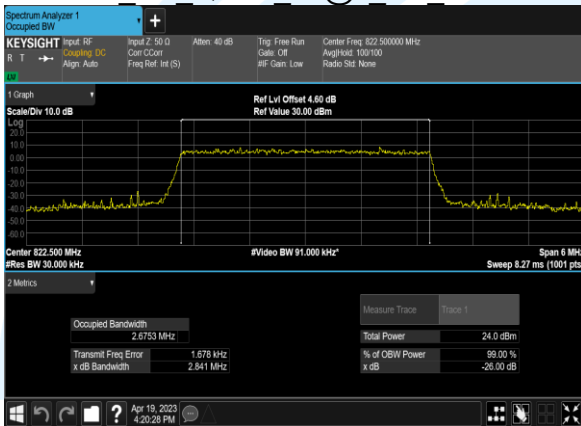
B26 3M QPSK 15@0 CH 26740



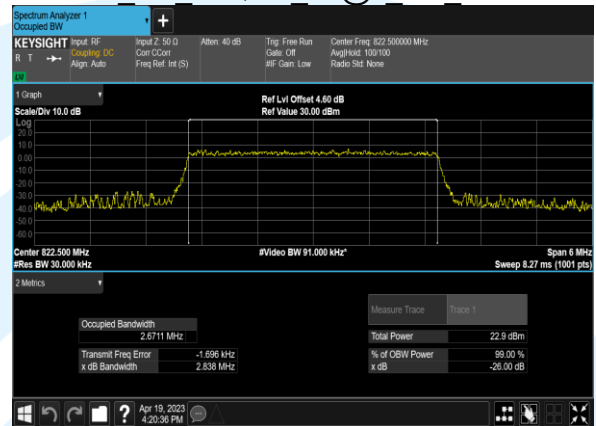
B26 3M 16QAM 15@0 CH 26740



B26 3M QPSK 15@0 CH 26775



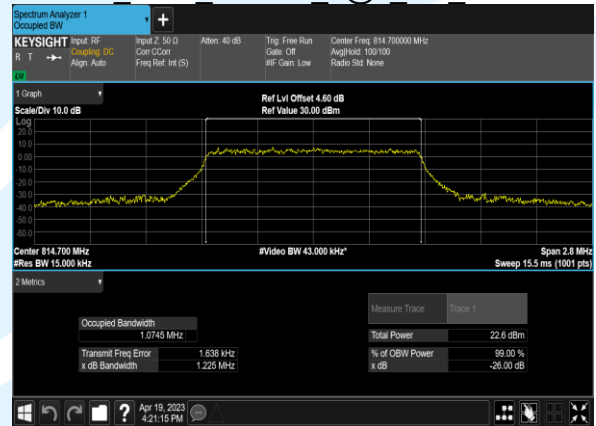
B26 3M 16QAM 15@0 CH 26775



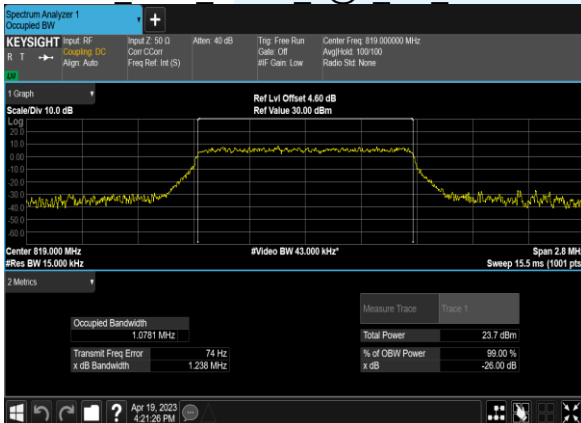
B26 1.4M QPSK 6@0 CH 26697



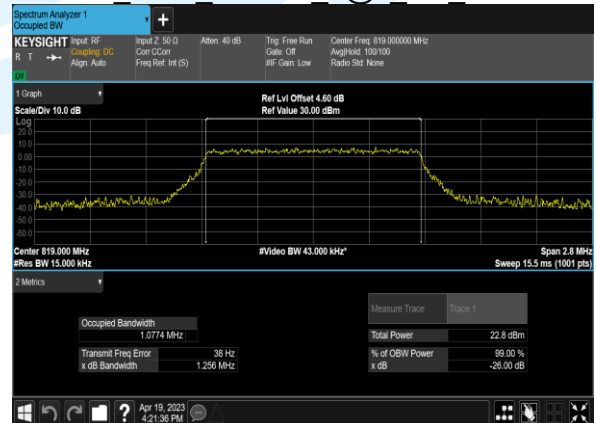
B26 1.4M 16QAM 6@0 CH 26697



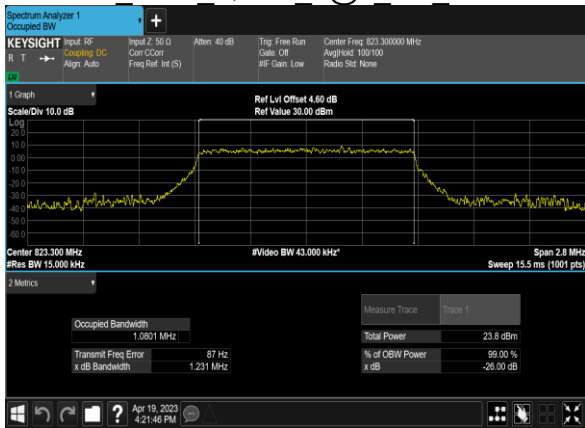
B26 1.4M QPSK 6@0 CH 26740



B26 1.4M 16QAM 6@0 CH 26740



B26 1.4M QPSK 6@0 CH 26783



B26 1.4M 16QAM 6@0 CH 26783



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<http://www.uttlab.com>

UTTR-RF-FCC4G-V1.1

5.6 BAND EDGE AT ANTENNA TERMINALS

Test Requirement: LTE Band 2 & LTE Band 25: FCC 47 CFR Part 24.238(a)
LTE Band 4: FCC 47 CFR Part 27.53(h)(1)
LTE Band 5 & LTE Band 26: FCC 47 CFR Part 22.917(a)
LTE Band 12: FCC 47 CFR Part 27.53(g)
LTE Band 13: FCC 47 CFR Part 27.53(c)(2)
LTE Band 26: FCC 47 CFR Part 90.691

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limit:

FCC 47 CFR Part 24.238(a), 27.53(h)(1), 22.917(a):

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. The emission limit equal to -13 dBm.

FCC 47 CFR Part 27.53(g):

For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC 47 CFR Part 27.53(c)(2):

On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

FCC 47 CFR Part 90.691:

(a)(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(a)(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

Test Procedure:

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer.

For each band edge measurement:

- 1) Set the spectrum analyzer span to include the block edge frequency.
- 2) Set a marker to point the corresponding band edge frequency in each test case.
- 3) Set display line at -13 dBm
- 4) Set resolution bandwidth to at least 1% of emission bandwidth.
- 5) Set spectrum analyzer with RMS detector.
- 6) Record the max trace plot into the test report

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.

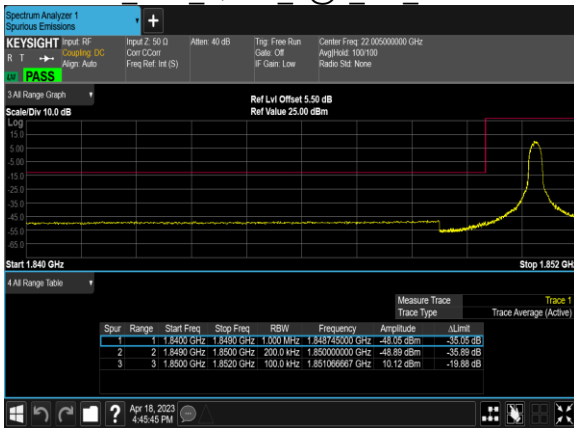
Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Pass

5.6.1 LTE Band 2

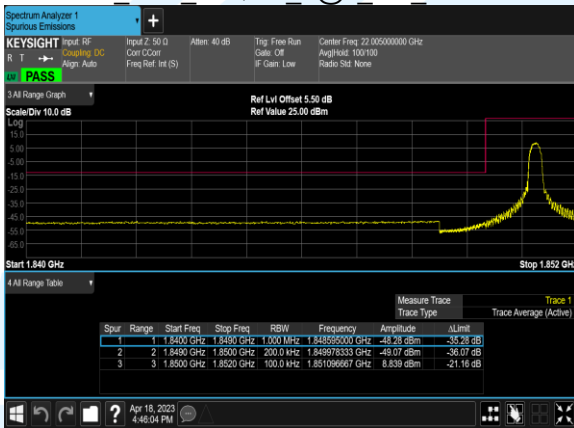
B2 20M QPSK 1@0 CH 18700



B2 20M QPSK 100@0 CH 18700



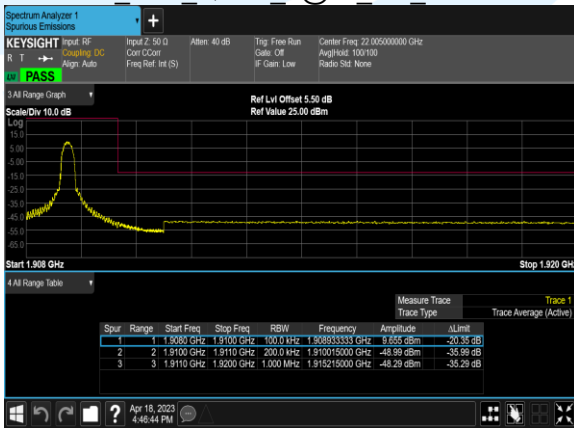
B2 20M 16QAM 1@0 CH 18700



B2 20M 16QAM 100@0 CH 18700



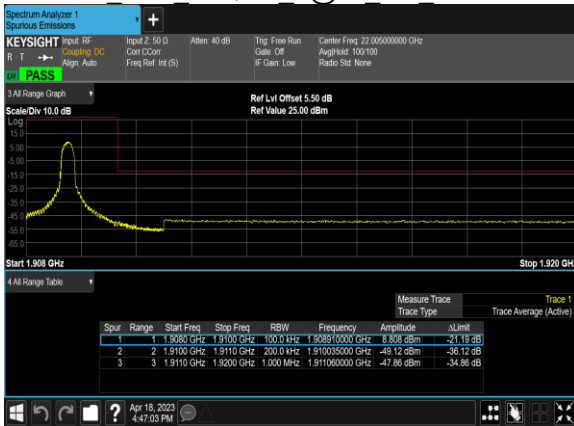
B2 20M QPSK 1@99 CH 19100



B2 20M QPSK 100@0 CH 19100



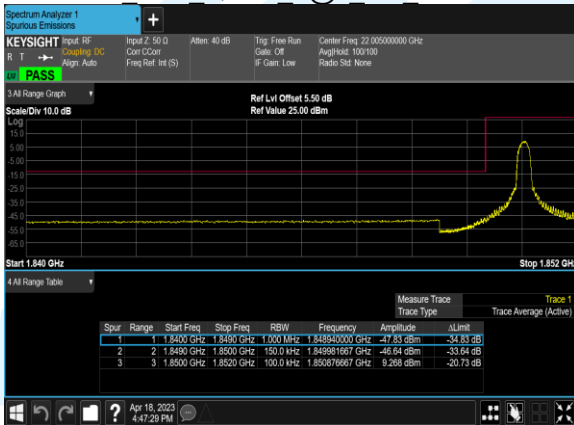
B2 20M 16QAM 1@99 CH 19100



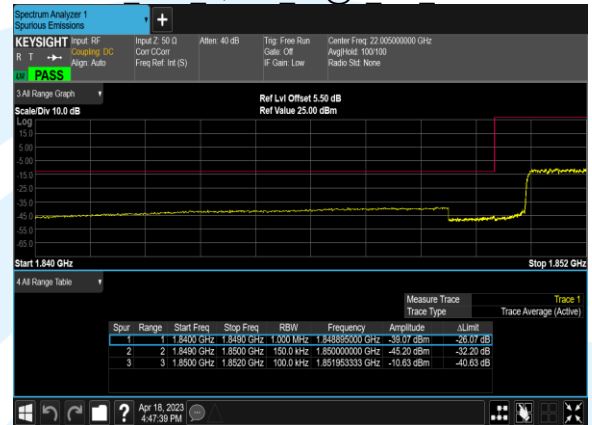
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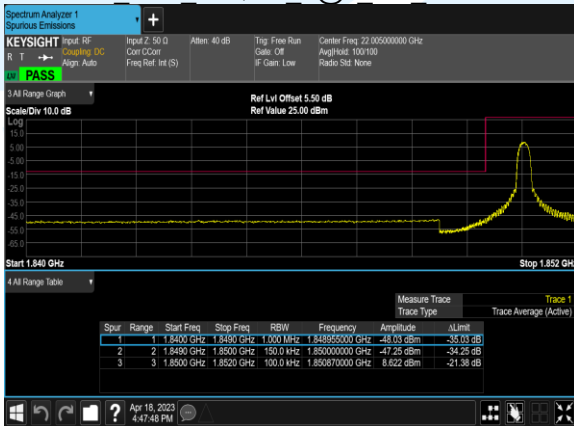
B2 15M QPSK 1@0 CH 18675



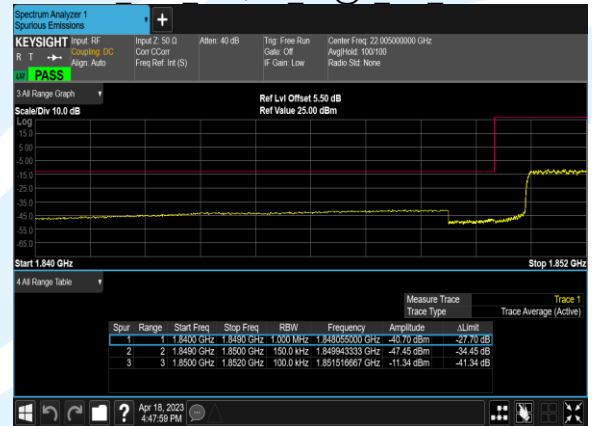
B2 15M QPSK 75@0 CH 18675



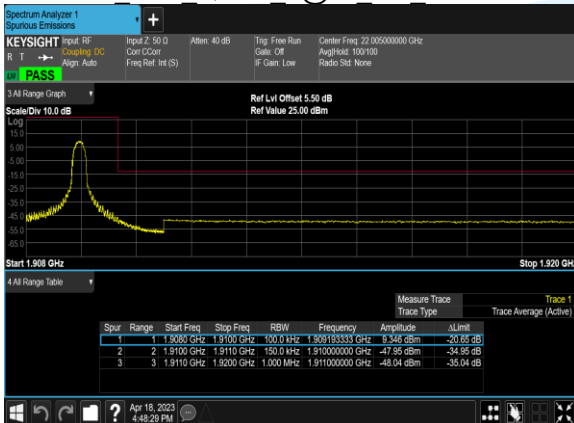
B2 15M 16QAM 1@0 CH 18675



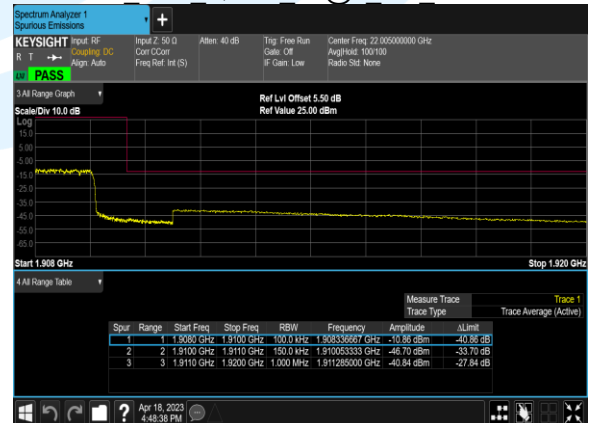
B2 15M 16QAM 75@0 CH 18675



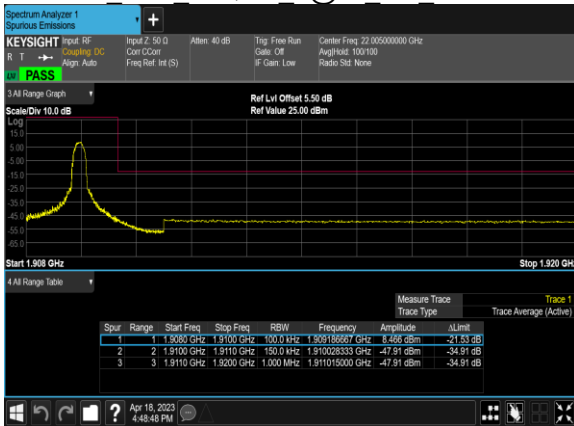
B2 15M QPSK 1@74 CH 19125



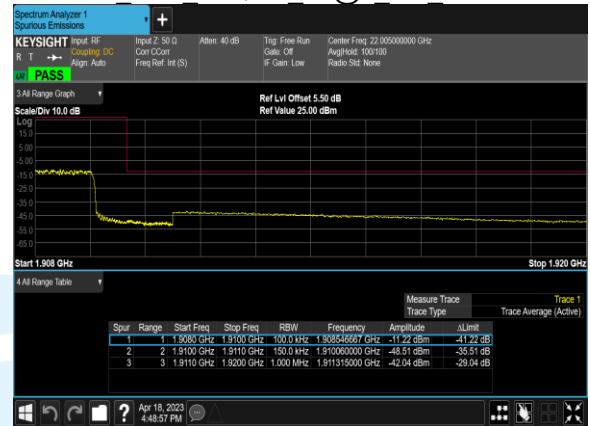
B2 15M QPSK 75@0 CH 19125



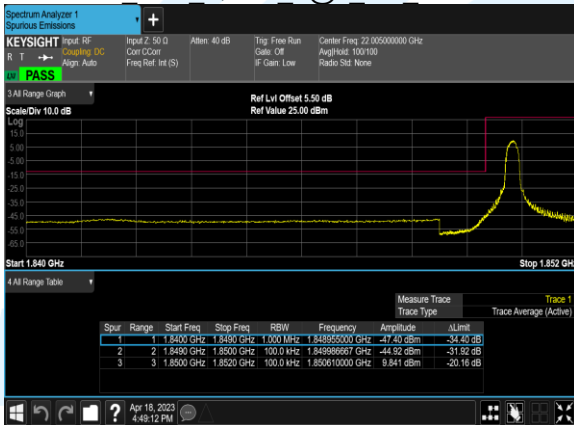
B2 15M 16QAM 1@74 CH 19125



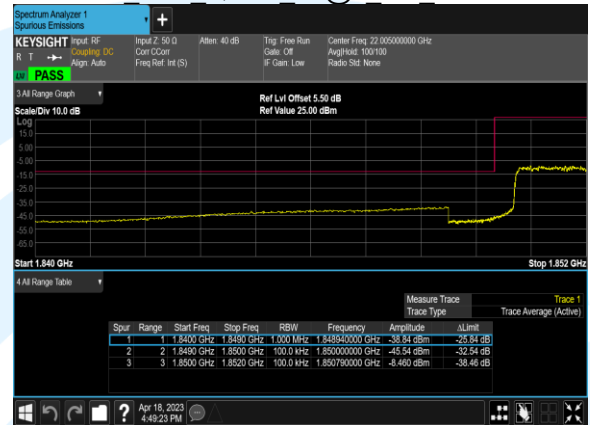
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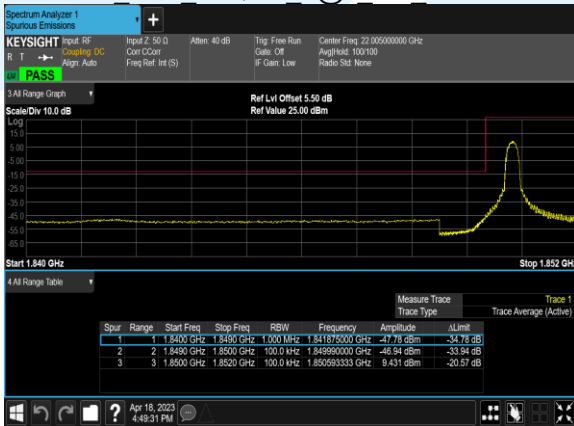
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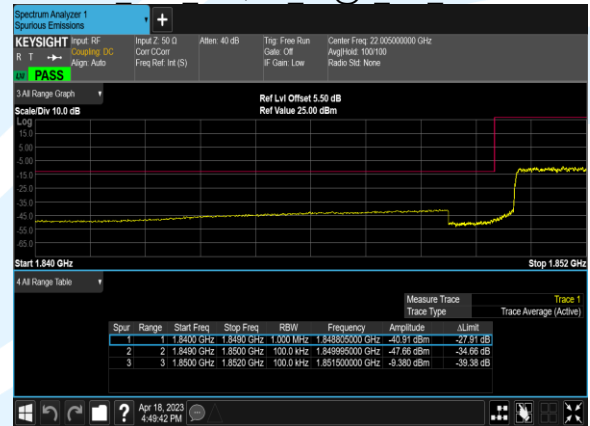
B2 10M QPSK 50@0 CH 18650



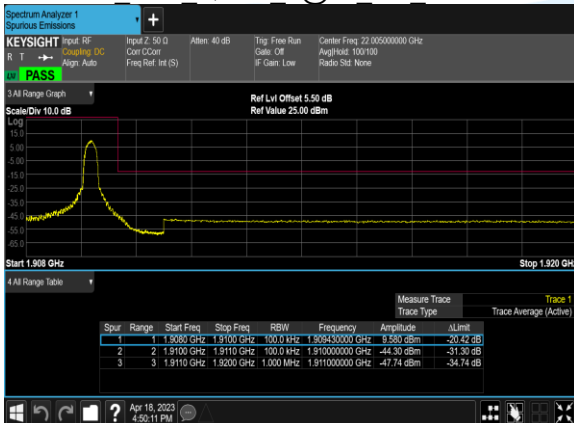
B2 10M 16QAM 1@0 CH 18650



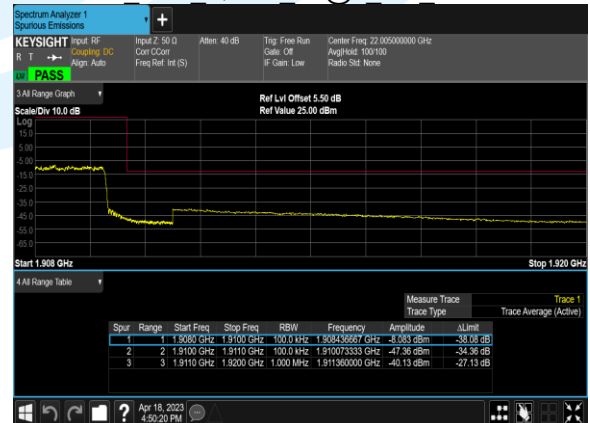
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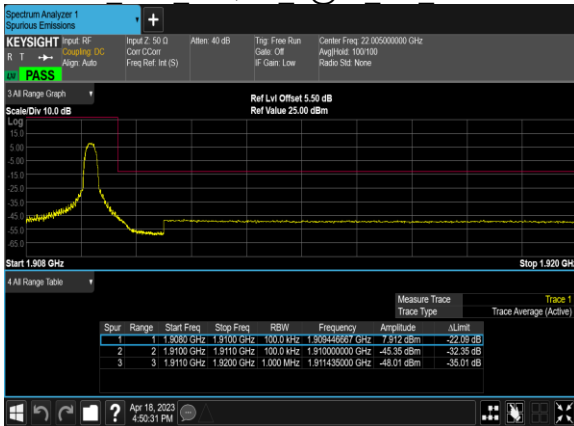
B2 10M QPSK 1@49 CH 19150



B2 10M QPSK 50@0 CH 19150



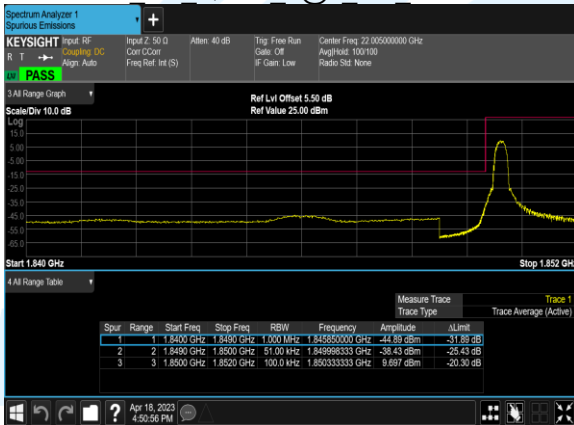
B2 10M 16QAM 1@49 CH 19150



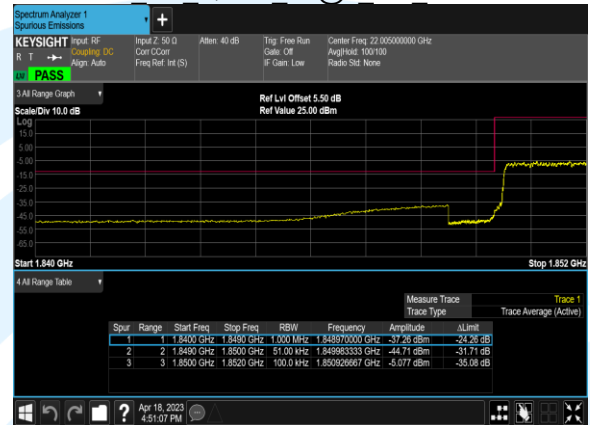
B2 10M 16QAM 50@0 CH 19150



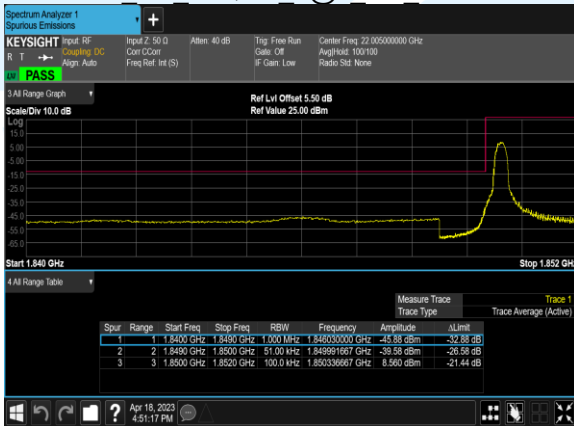
B2 5M QPSK 1@0 CH 18625



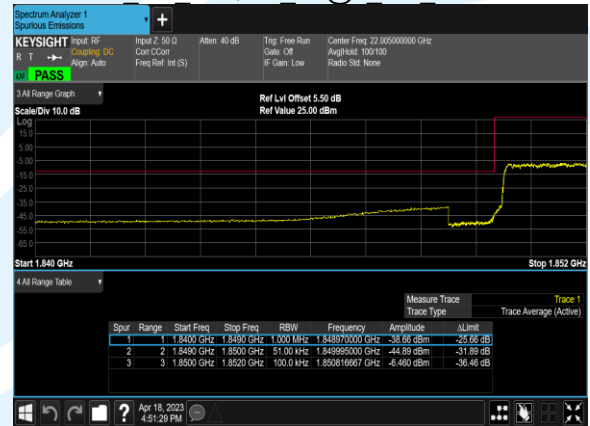
B2 5M QPSK 25@0 CH 18625



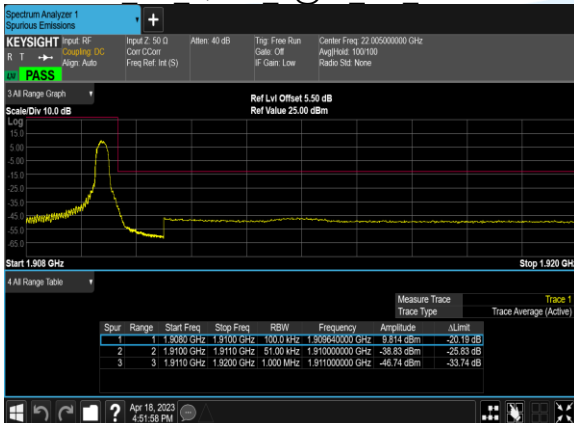
B2 5M 16QAM 1@0 CH 18625



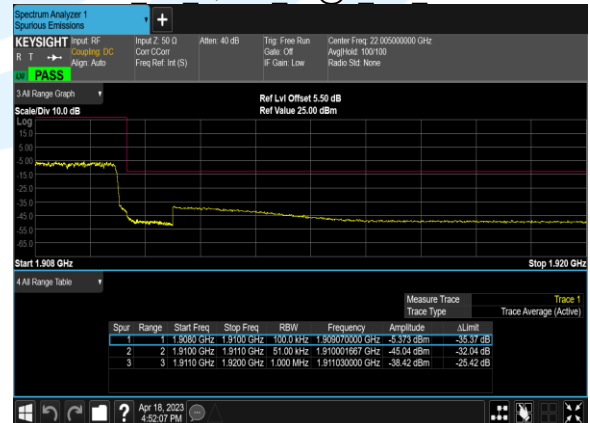
B2 5M 16QAM 25@0 CH 18625



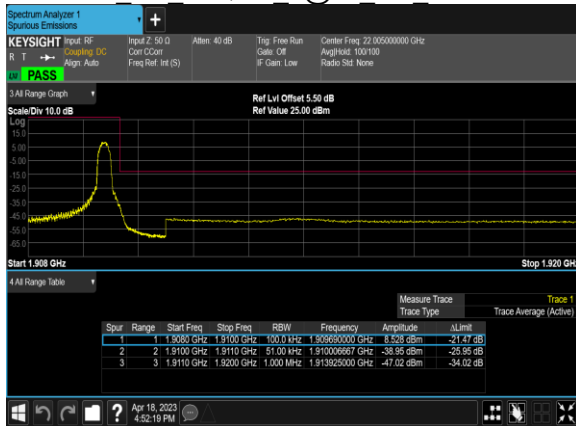
B2 5M QPSK 1@24 CH 19175



B2 5M QPSK 25@0 CH 19175



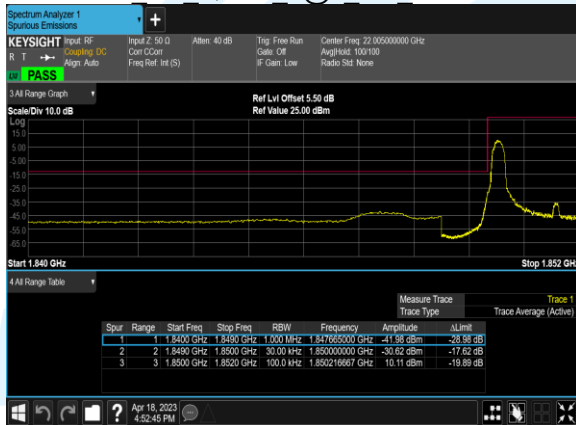
B2 5M 16QAM 1@24 CH 19175



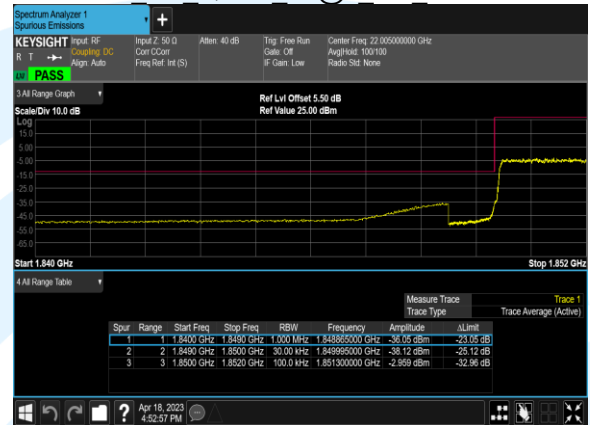
B2 5M 16QAM 25@0 CH 19175



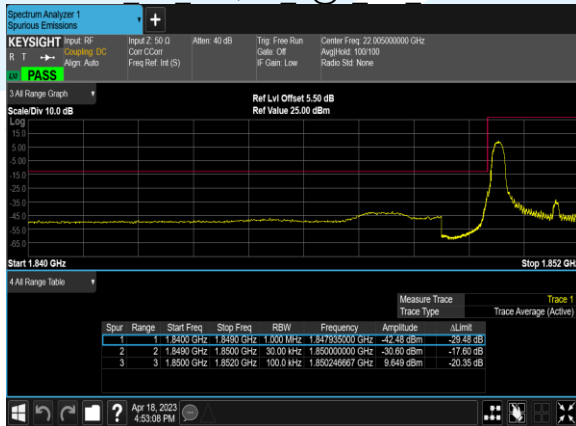
B2 3M QPSK 1@0 CH 18615



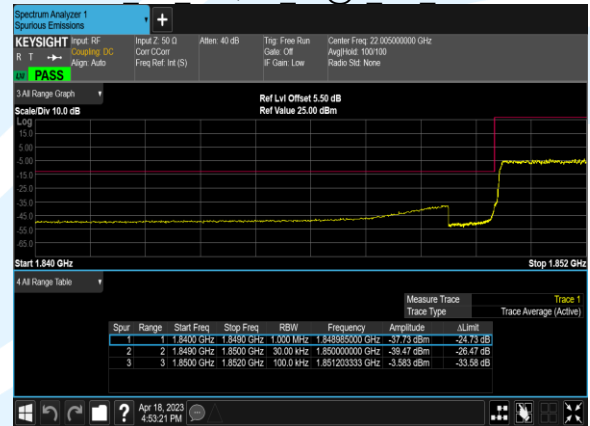
B2 3M QPSK 15@0 CH 18615



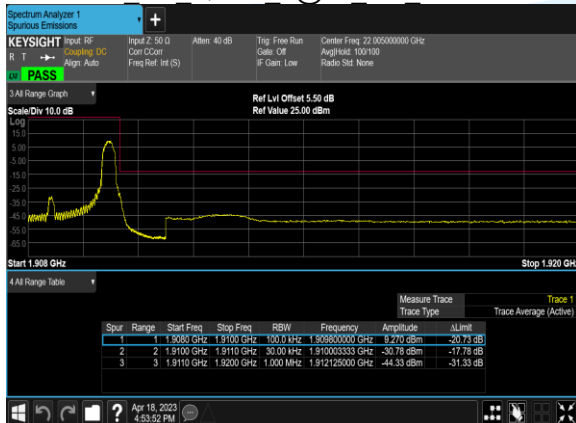
B2 3M 16QAM 1@0 CH 18615



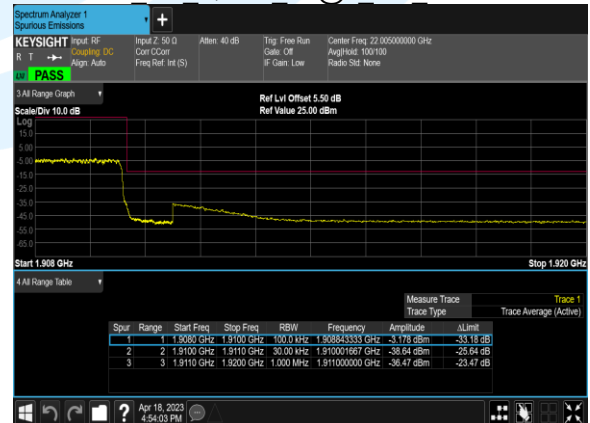
B2 3M 16QAM 15@0 CH 18615



B2 3M QPSK 1@14 CH 19185



B2 3M QPSK 15@0 CH 19185



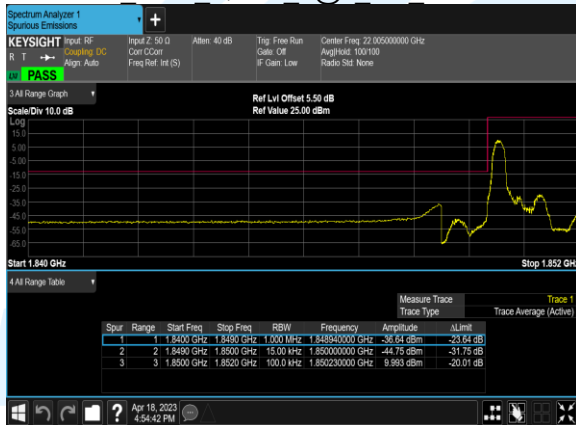
B2 3M 16QAM 1@14 CH 19185



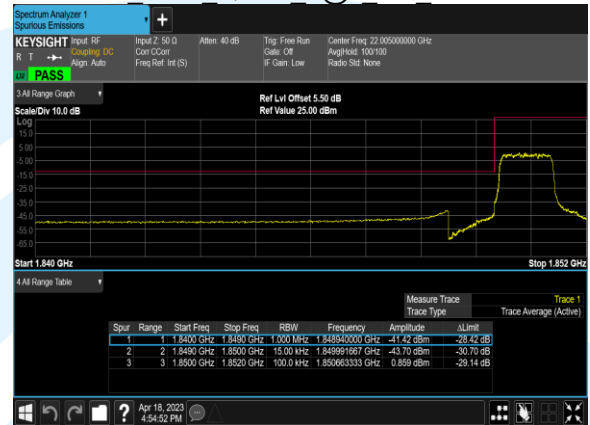
B2 3M 16QAM 15@0 CH 19185



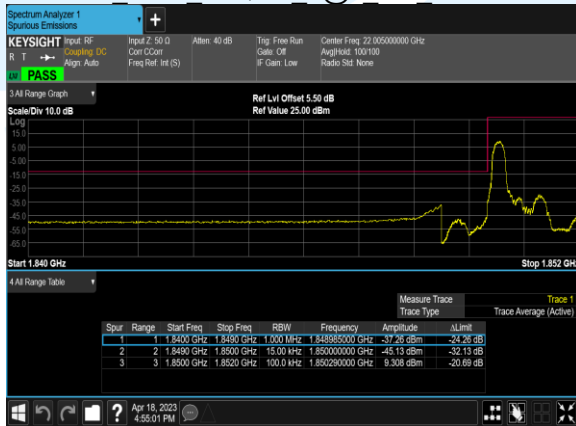
B2 1.4M QPSK 1@0 CH 18607



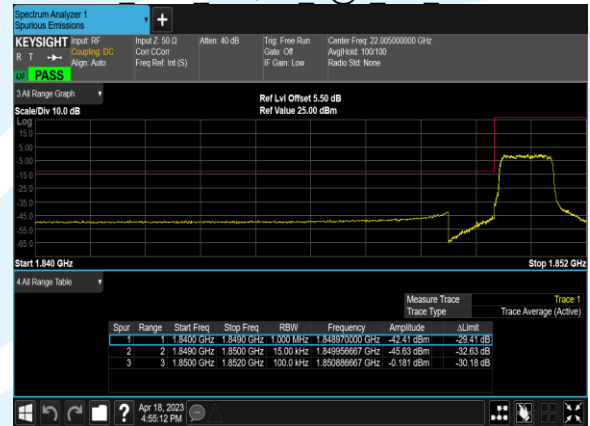
B2 1.4M QPSK 6@0 CH 18607



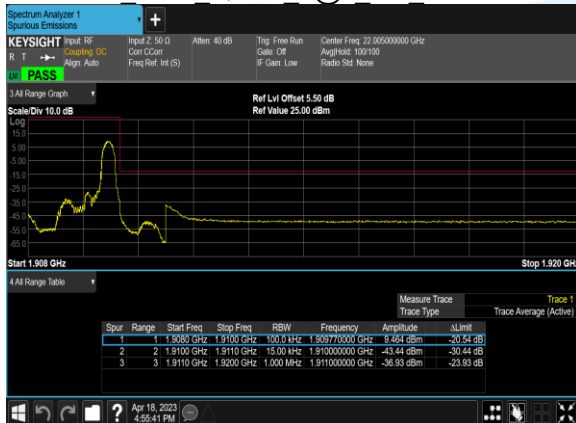
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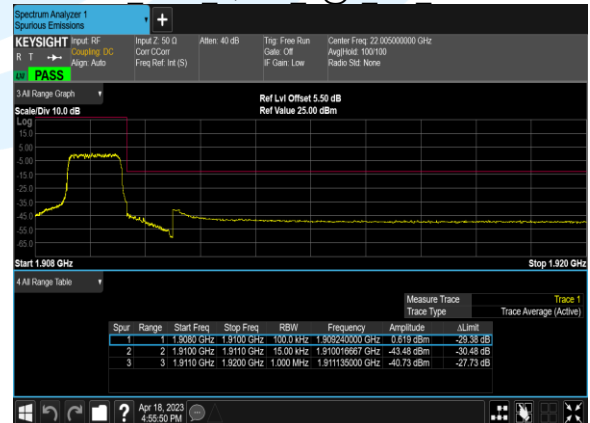
B2 1.4M 16QAM 6@0 CH 18607



B2 1.4M QPSK 1@5 CH 19193



B2 1.4M QPSK 6@0 CH 19193



B2 1.4M 16QAM 1@5 CH 19193

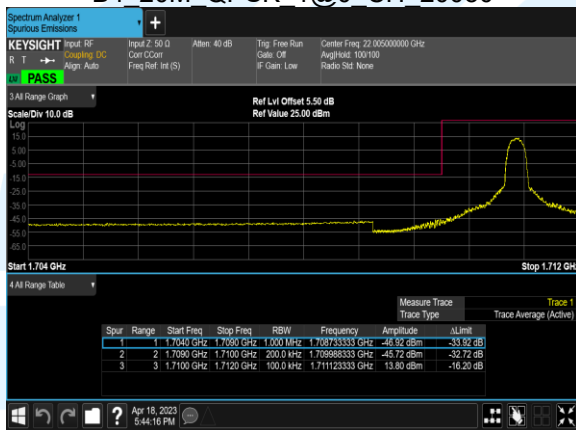


B2 1.4M 16QAM 6@0 CH 19193

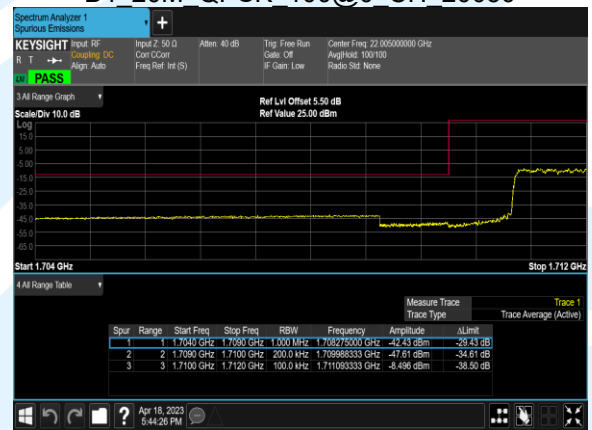


5.6.2 LTE Band 4

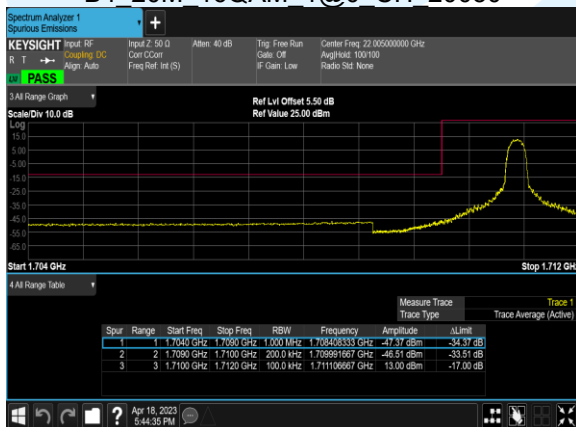
B4 20M QPSK 1@0 CH 20050



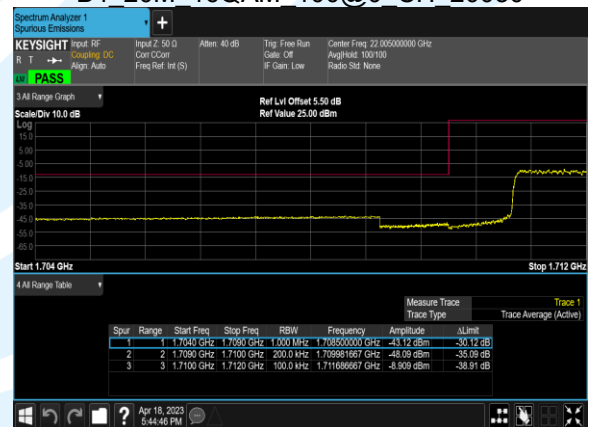
B4 20M QPSK 100@0 CH 20050



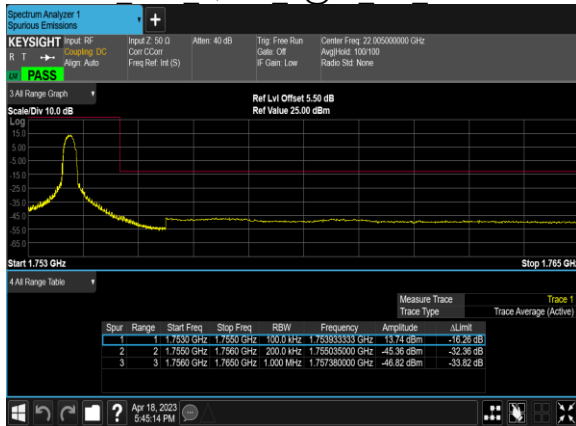
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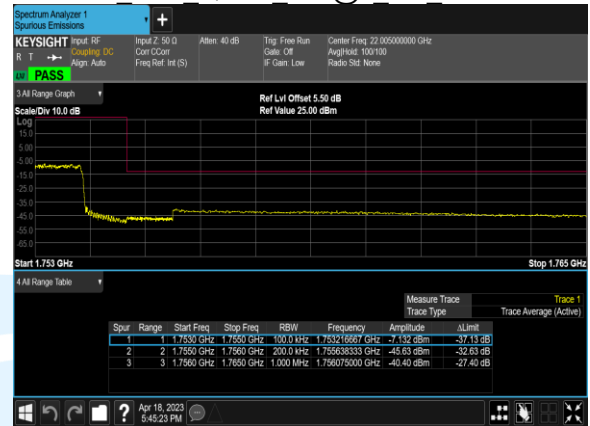
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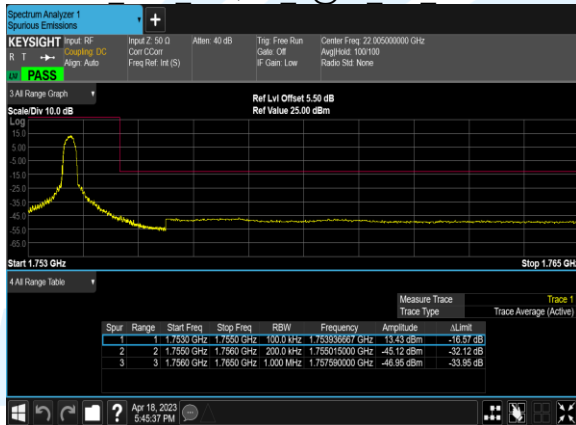
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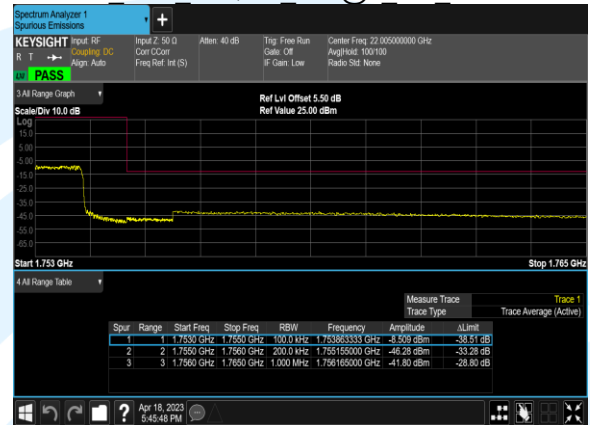
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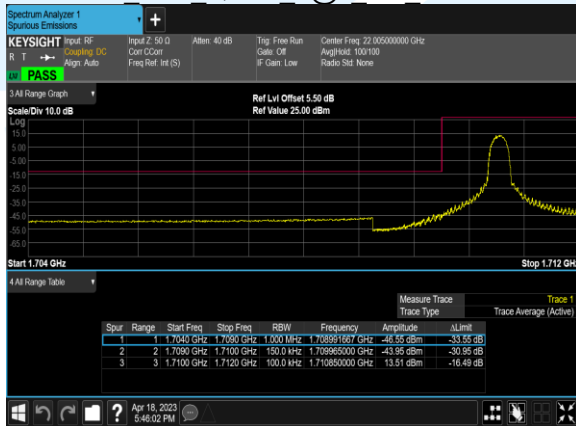
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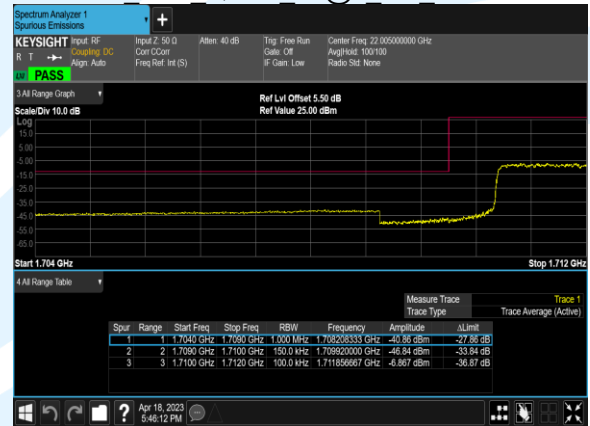
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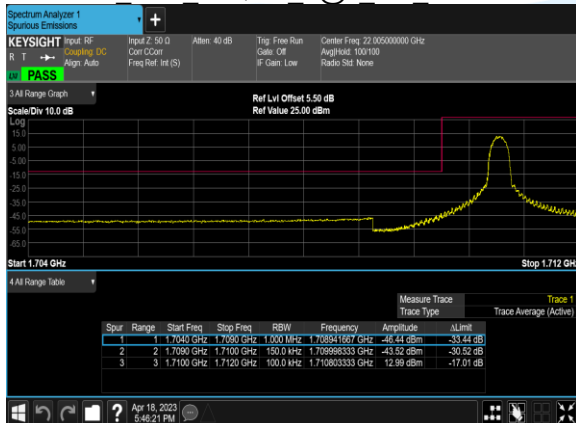
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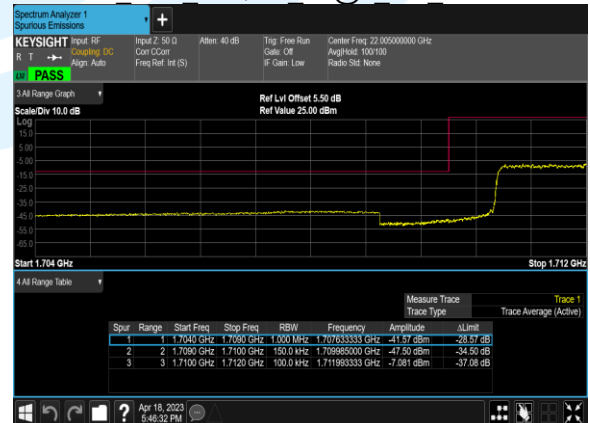
B4 15M QPSK 75@0 CH 2025



B4 15M 16QAM 1@0 CH 2025



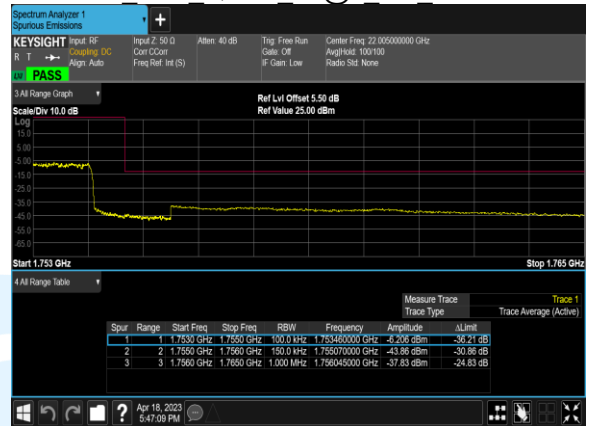
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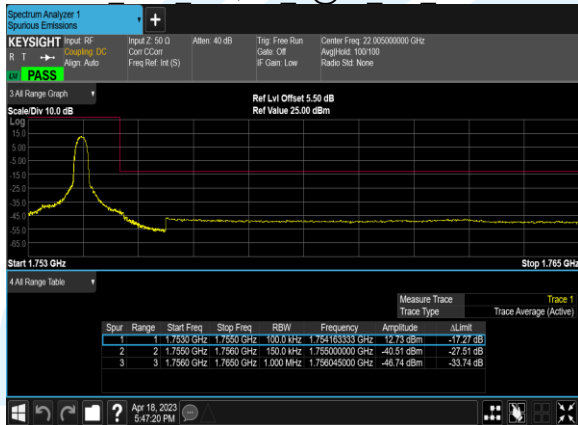
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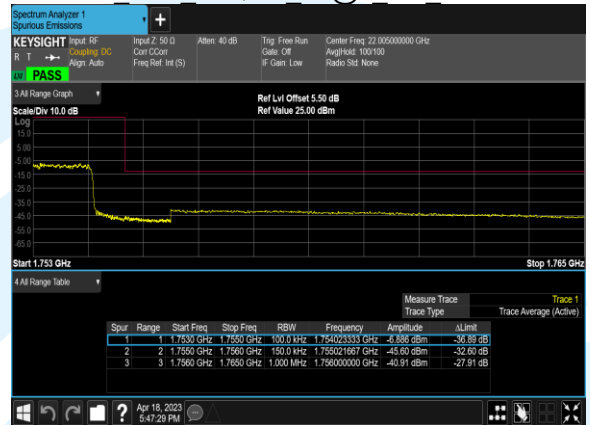
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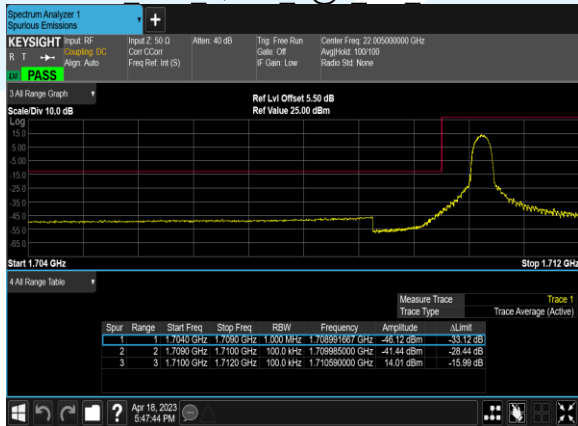
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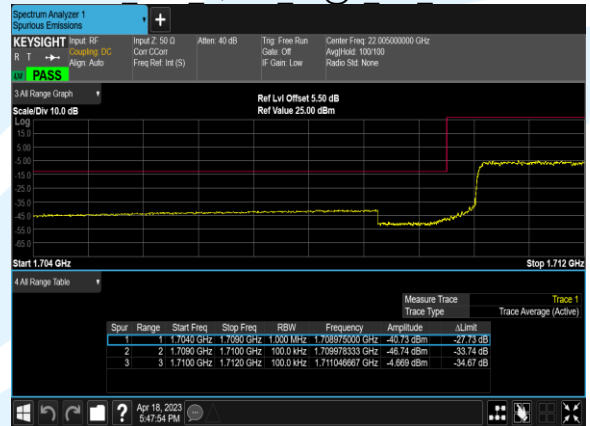
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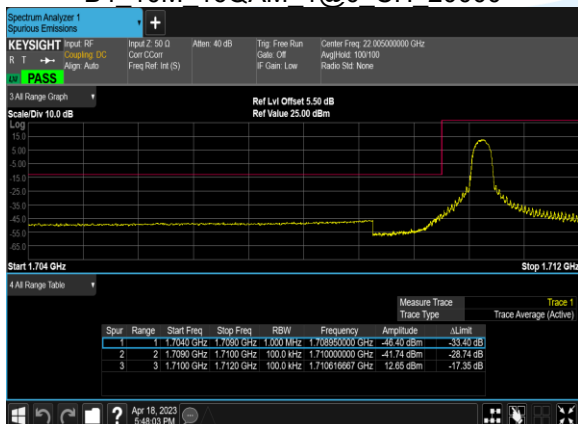
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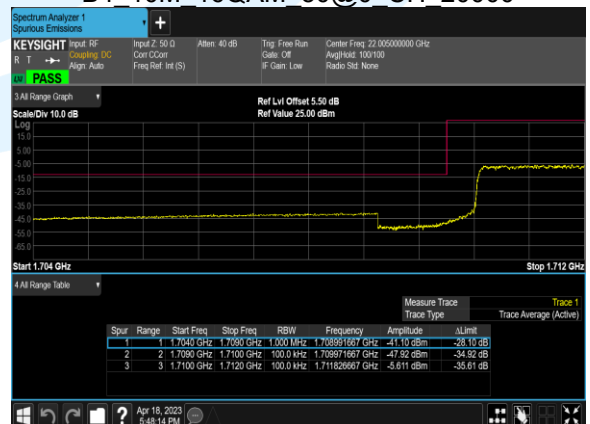
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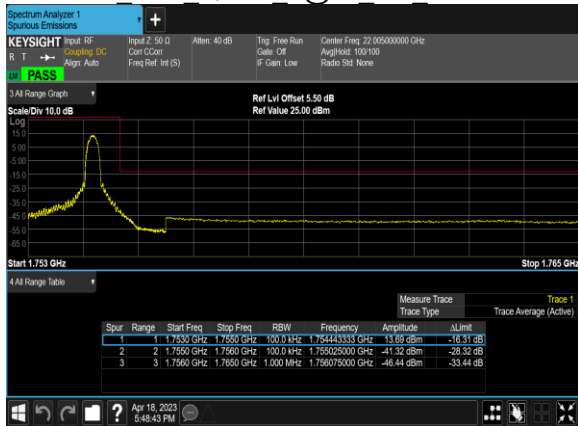
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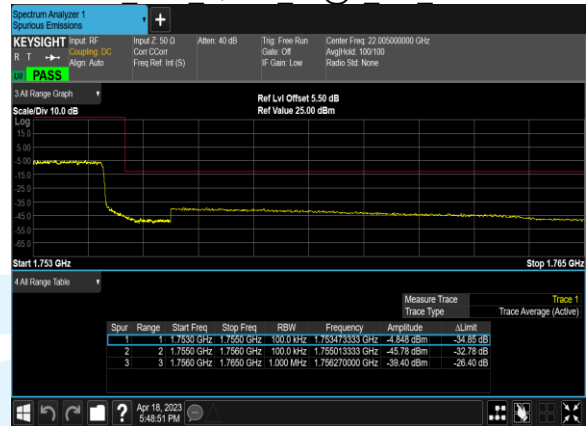
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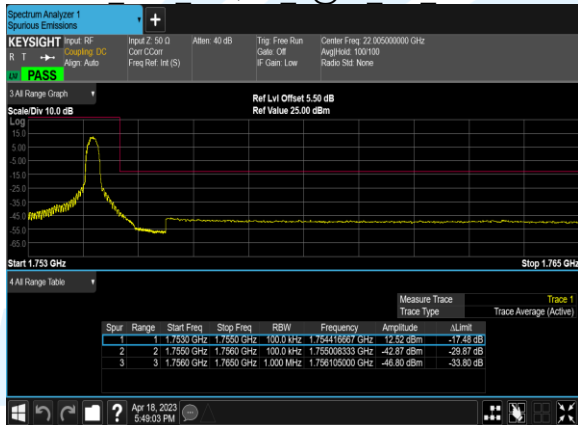
B4 10M QPSK 1@49 CH 20350



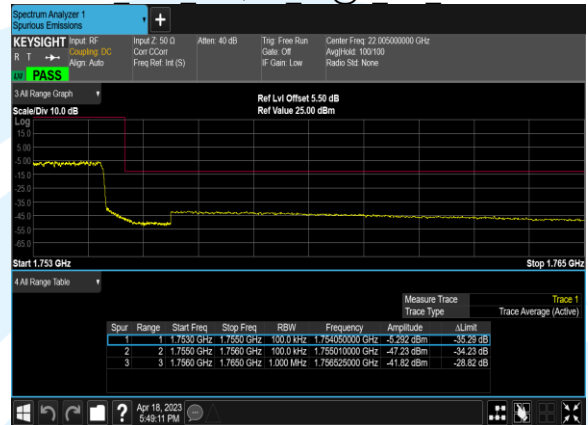
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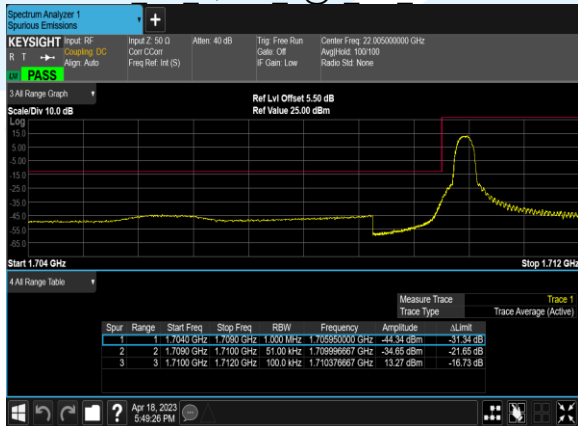
B4 10M 16QAM 1@49 CH 20350



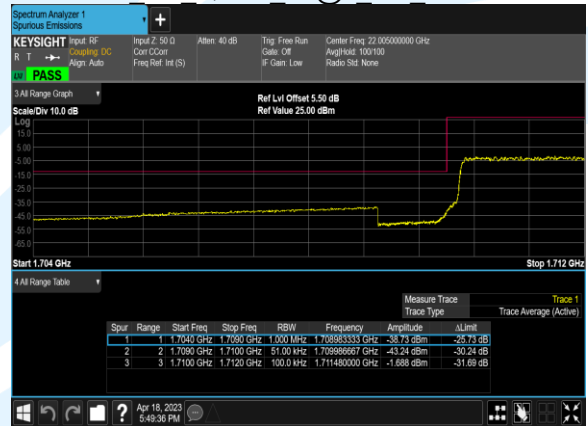
B4 10M 16QAM 50@0 CH 20350



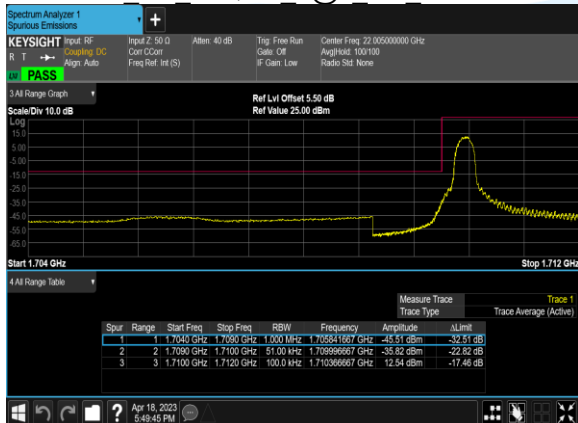
B4 5M QPSK 1@0 CH 19975



B4 5M QPSK 25@0 CH 19975



B4 5M 16QAM 1@0 CH 19975



B4 5M 16QAM 25@0 CH 19975

