

S

Keysight Spectrum Analyzer - Spurious Emissions

Center Freq: 13.255000000 GHz
Trig: Free Run
Avg/Hold: 5/5
Radio Std: None
Radio Device: BTS

Ref Offset: 11.82 dB
Ref: 30.00 dBm

Start: 2.455 GHz
Stop: 2.54 GHz

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4549 GHz	2.4599 GHz	1.000 MHz	2.457900000 GHz	-41.41 dBm	-16.41 dB
2	2	2.4599 GHz	2.4949 GHz	1.000 MHz	2.488180000 GHz	-38.11 dBm	-25.11 dB
3	3	2.4949 GHz	2.4989 GHz	1.000 MHz	2.498832000 GHz	-40.04 dBm	-30.04 dB
4	4	2.4989 GHz	2.4999 GHz	820.0 kHz	2.498970000 GHz	-33.88 dBm	-23.88 dB
5	5	2.4999 GHz	2.5399 GHz	510.0 kHz	2.518980000 GHz	-21.30 dBm	-28.70 dB

7-7-20MHz-20MHz-QPSK@QPSK-QPSK@QPSK-21152-21350-1RB#0@100RB#0-0RB#0@100RB#0-PASS

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Radio Std: None
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Ref Offset: 11.82 dB
Ref: 30.00 dBm

Start: 2.455 GHz
Stop: 2.54 GHz

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4549 GHz	2.4599 GHz	1.000 MHz	2.458475000 GHz	-41.43 dBm	-16.43 dB
2	2	2.4599 GHz	2.4949 GHz	1.000 MHz	2.494830000 GHz	-37.38 dBm	-24.38 dB
3	3	2.4949 GHz	2.4989 GHz	1.000 MHz	2.498840000 GHz	-36.72 dBm	-26.72 dB
4	4	2.4989 GHz	2.4999 GHz	820.0 kHz	2.498980000 GHz	-31.30 dBm	-21.30 dB
5	5	2.4999 GHz	2.5399 GHz	510.0 kHz	2.522620000 GHz	-0.840 dBm	-49.16 dB

7-7-20MHz-20MHz-QPSK@QPSK-QPSK@QPSK-21152-21350-1RB#0@100RB#0-1RB#99@100RB#0-PASS

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Center Freq: 13.255000000 GHz
Trig: Free Run
Avg/Hold: 5/5
Radio Std: None
Radio Device: BTS

Ref Offset: 12.02 dB
Ref: 30.00 dBm

Start: 2.53 GHz
Stop: 2.615 GHz

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.5301 GHz	2.5701 GHz	510.0 kHz	2.531260000 GHz	-22.52 dBm	-27.48 dB
2	2	2.5701 GHz	2.5711 GHz	820.0 kHz	2.570905000 GHz	-36.97 dBm	-26.97 dB
3	3	2.5711 GHz	2.5751 GHz	1.000 MHz	2.571112000 GHz	-37.11 dBm	-27.11 dB
4	4	2.5751 GHz	2.6101 GHz	1.000 MHz	2.583325000 GHz	-37.73 dBm	-24.73 dB
5	5	2.6101 GHz	2.6151 GHz	1.000 MHz	2.614660000 GHz	-40.36 dBm	-15.36 dB

7-7-20MHz-20MHz-QPSK@QPSK-QPSK@QPSK-21152-21350-1RB#99@100RB#0-0RB#0@100RB#0-PASS

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Center Freq: 13.255000000 GHz
Trig: Free Run
Avg/Hold: 5/5
Radio Std: None
Radio Device: BTS

Ref Offset: 12.02 dB
Ref: 30.00 dBm

Start: 2.53 GHz
Stop: 2.615 GHz

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.5301 GHz	2.5701 GHz	510.0 kHz	2.568900000 GHz	-11.34 dBm	-38.66 dB
2	2	2.5701 GHz	2.5711 GHz	820.0 kHz	2.570106000 GHz	-16.83 dBm	-6.83 dB
3	3	2.5711 GHz	2.5751 GHz	1.000 MHz	2.571104000 GHz	-40.02 dBm	-30.02 dB
4	4	2.5751 GHz	2.6101 GHz	1.000 MHz	2.583325000 GHz	-40.33 dBm	-27.33 dB
5	5	2.6101 GHz	2.6151 GHz	1.000 MHz	2.614875000 GHz	-40.35 dBm	-15.35 dB

7-7-20MHz-20MHz-QPSK@QPSK-QPSK@QPSK-21152-21350-100RB#0@100RB#0-100RB#0@100RB#0-PASS

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Center Freq: 13.255000000 GHz
Trig: Free Run
Avg/Hold: 5/5
Radio Std: None
Radio Device: BTS

Ref Offset: 12.02 dB
Ref: 30.00 dBm

Start: 2.53 GHz
Stop: 2.615 GHz

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.5301 GHz	2.5701 GHz	510.0 kHz	2.549100000 GHz	-23.11 dBm	-26.89 dB
2	2	2.5701 GHz	2.5711 GHz	820.0 kHz	2.570335000 GHz	-40.36 dBm	-30.36 dB
3	3	2.5711 GHz	2.5751 GHz	1.000 MHz	2.571148000 GHz	-40.39 dBm	-30.39 dB
4	4	2.5751 GHz	2.6101 GHz	1.000 MHz	2.588750000 GHz	-38.15 dBm	-25.15 dB
5	5	2.6101 GHz	2.6151 GHz	1.000 MHz	2.614035000 GHz	-40.36 dBm	-15.36 dB

7-7-20MHz-20MHz-16QAM@16QAM-16QAM@16QAM-21152-21350-1RB#0@100RB#0-0RB#0@100RB#0-PASS

Keysight Spectrum Analyzer - Spurious Emissions

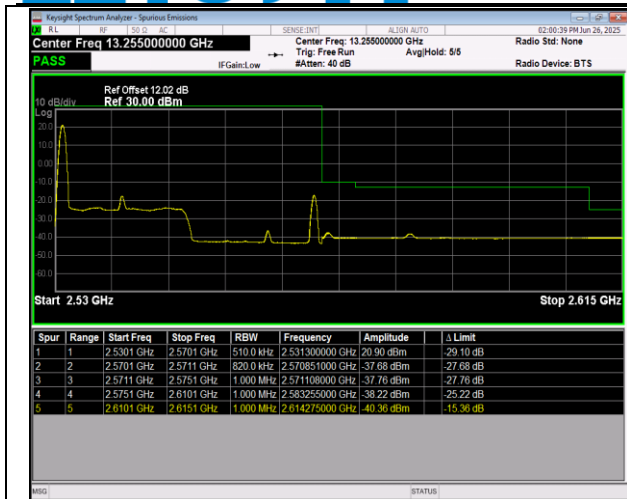
Center Freq: 13.255000000 GHz
Trig: Free Run
Avg/Hold: 5/5
Radio Std: None
Radio Device: BTS

Ref Offset: 12.02 dB
Ref: 30.00 dBm

Start: 2.53 GHz
Stop: 2.615 GHz

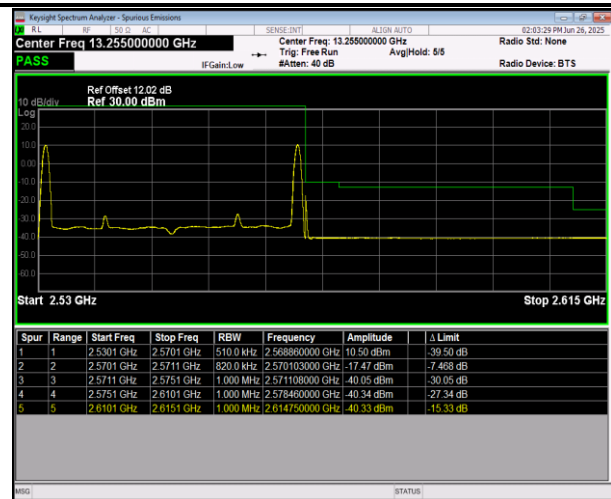
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2	2	2.5701 GHz	2.5711 GHz	820.0 kHz	2.570101000 GHz	-29.32 dBm	-19.32 dB
3	3	2.5711 GHz	2.5751 GHz	1.000 MHz	2.574744000 GHz	-33.15 dBm	-23.15 dB
4	4	2.5751 GHz	2.6101 GHz	1.000 MHz	2.581540000 GHz	-32.66 dBm	-19.66 dB
5	5	2.6101 GHz	2.6151 GHz	1.000 MHz	2.612060000 GHz	-40.38 dBm	-15.38 dB

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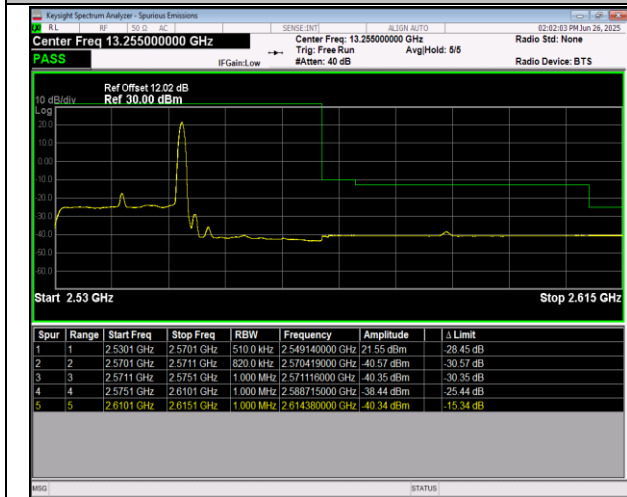
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S

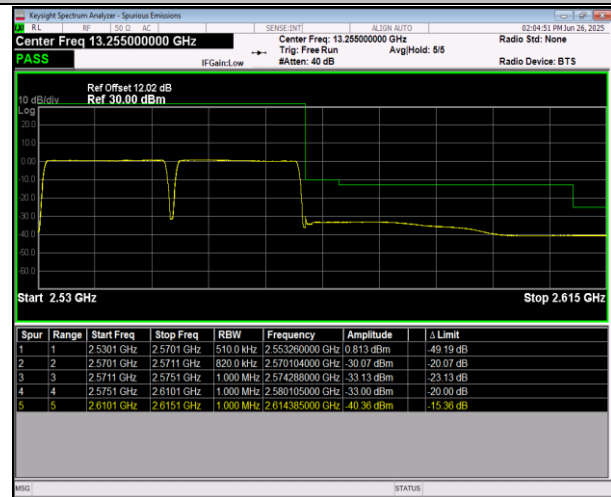


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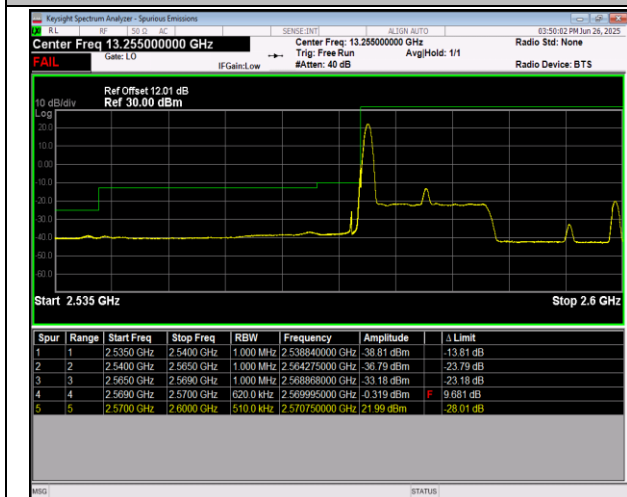
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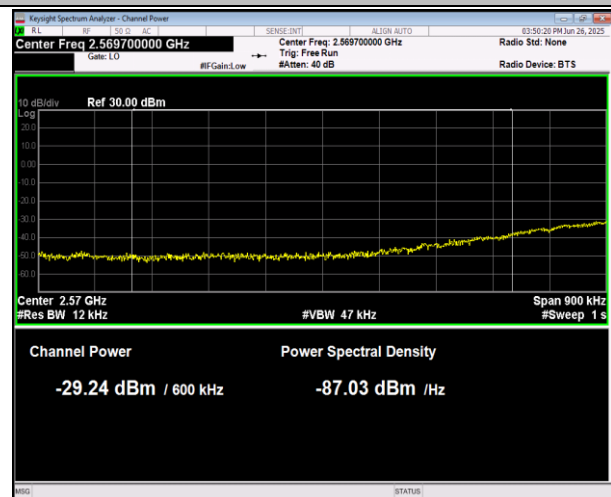
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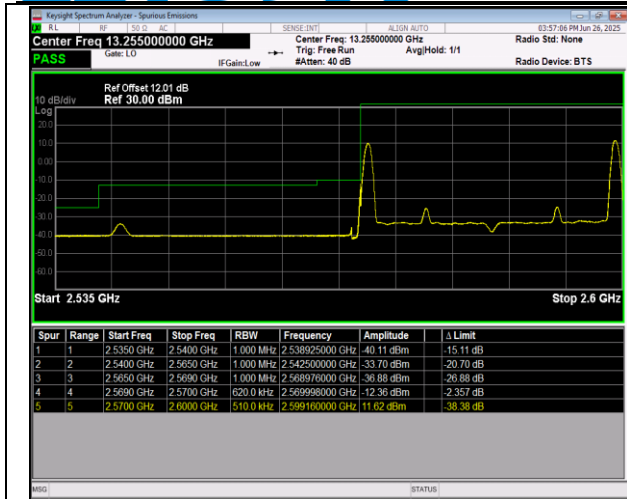
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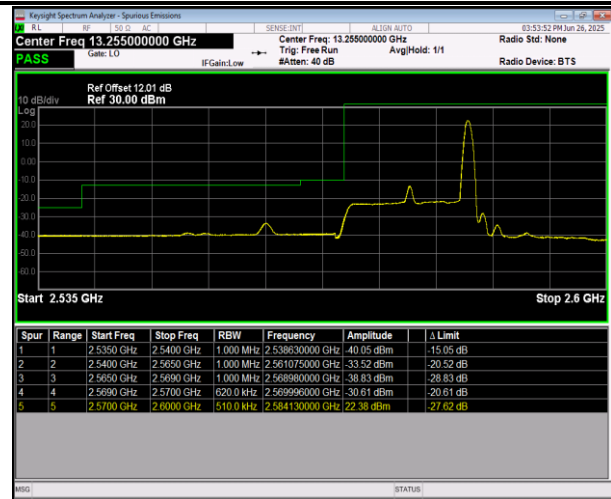
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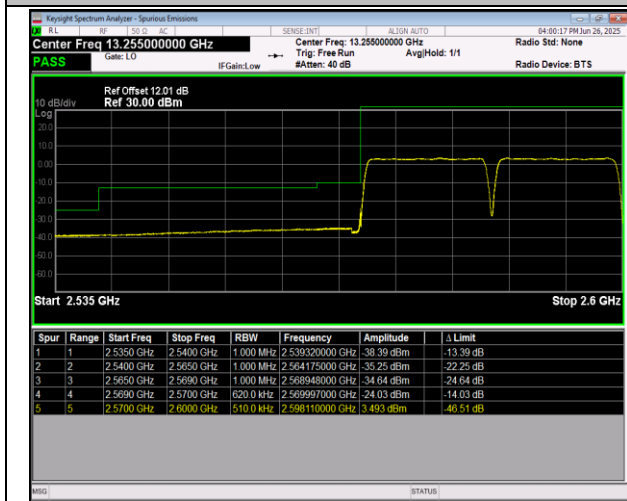
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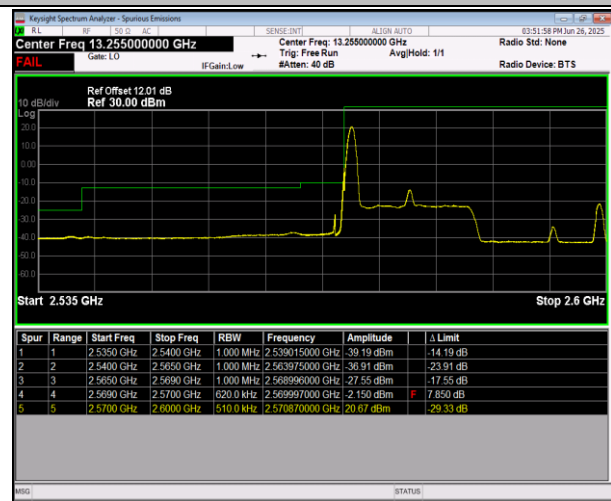
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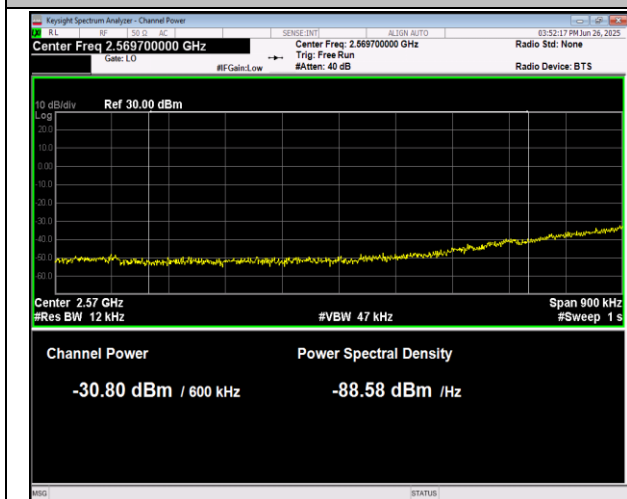
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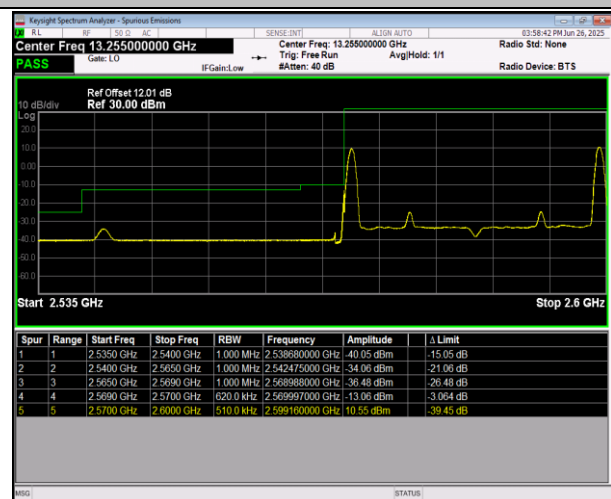
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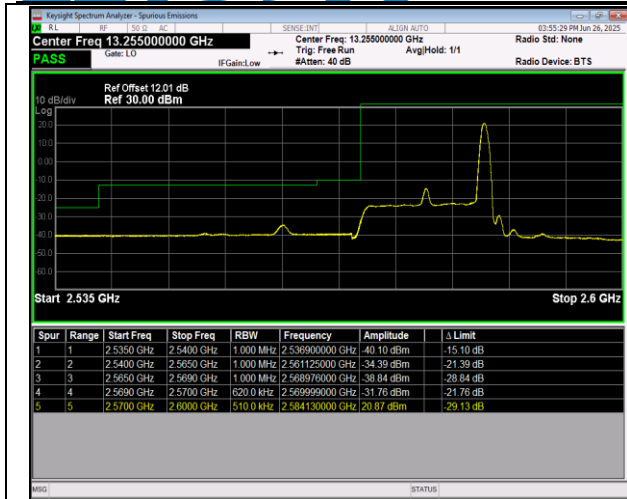
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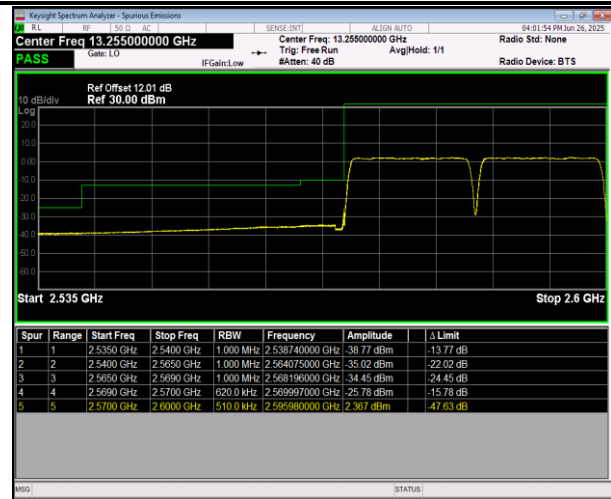
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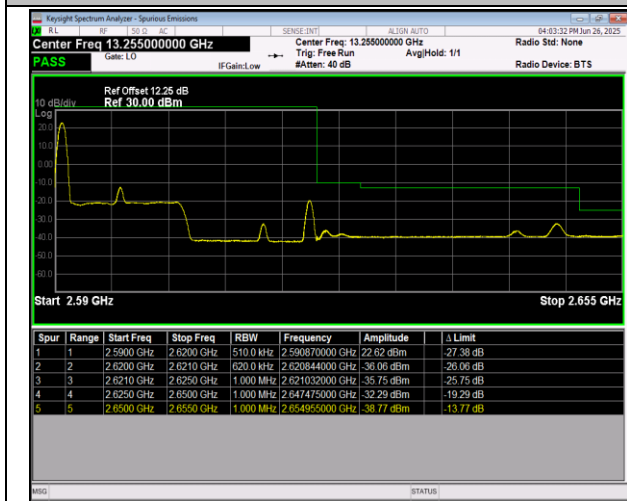
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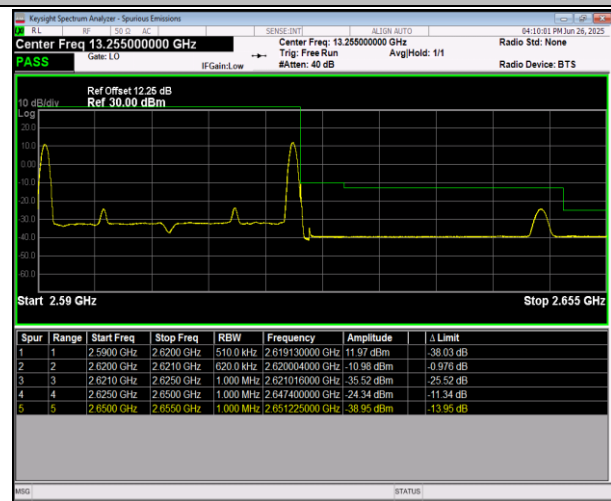
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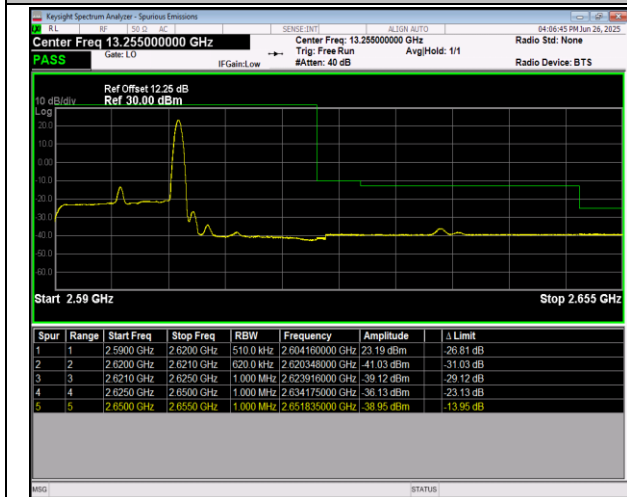
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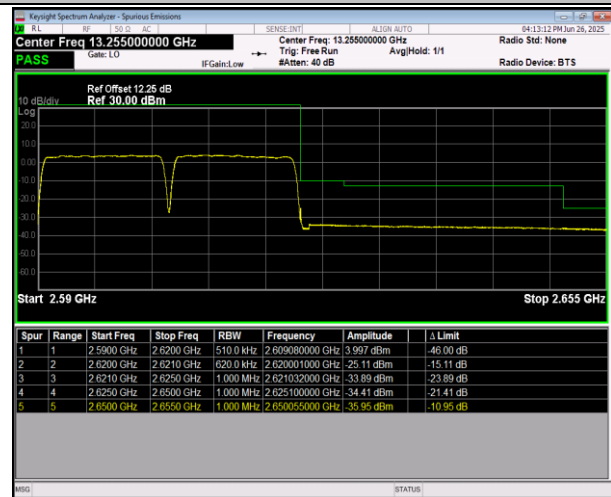
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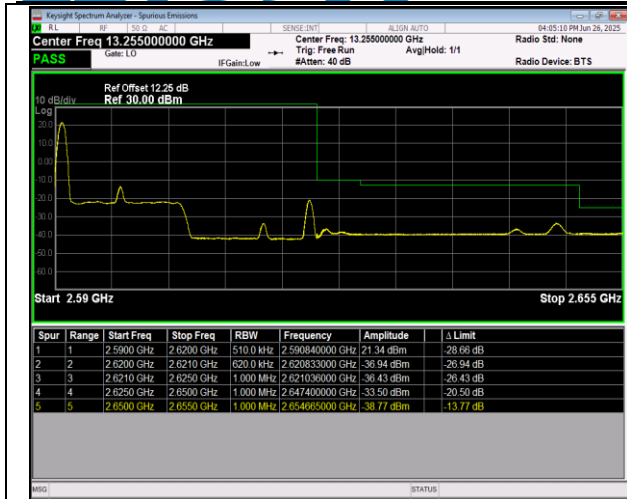
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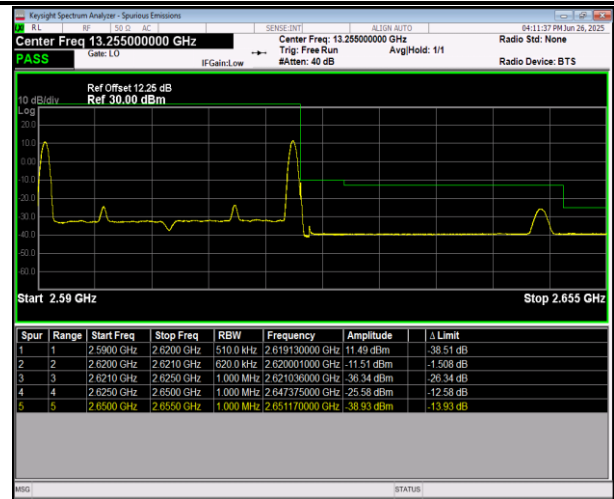
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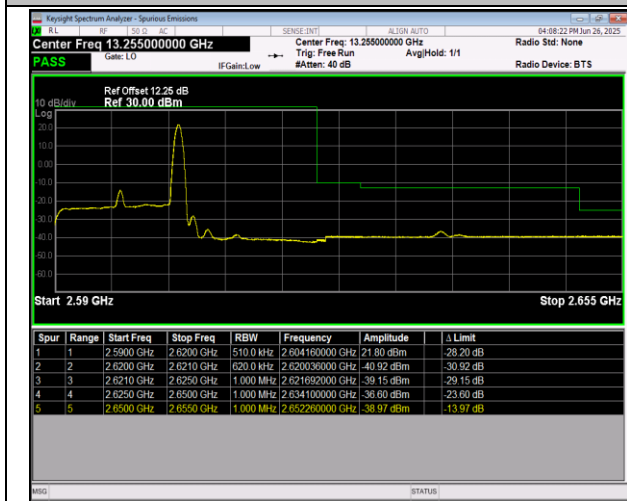
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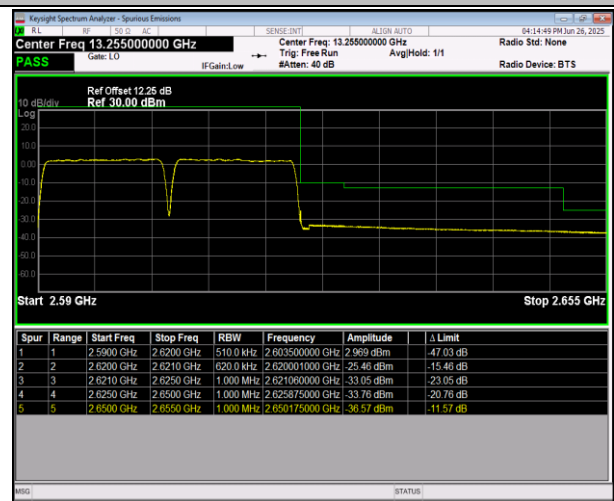
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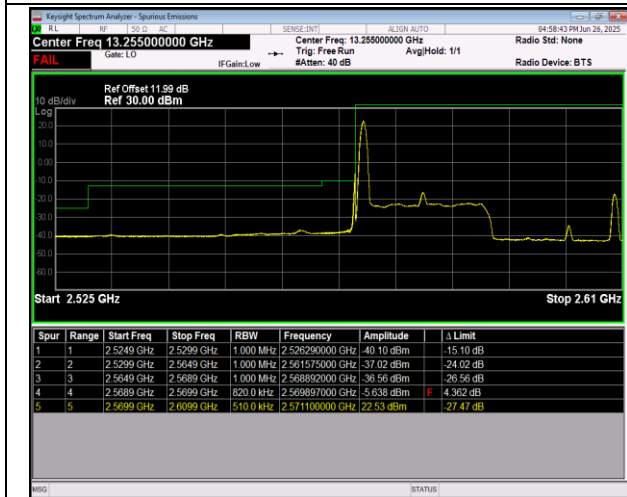
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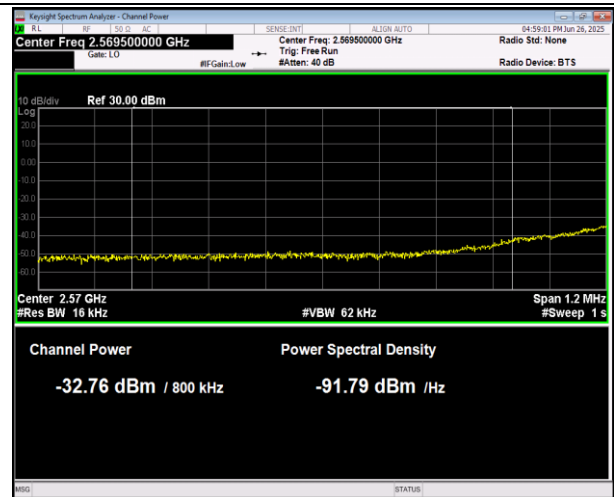
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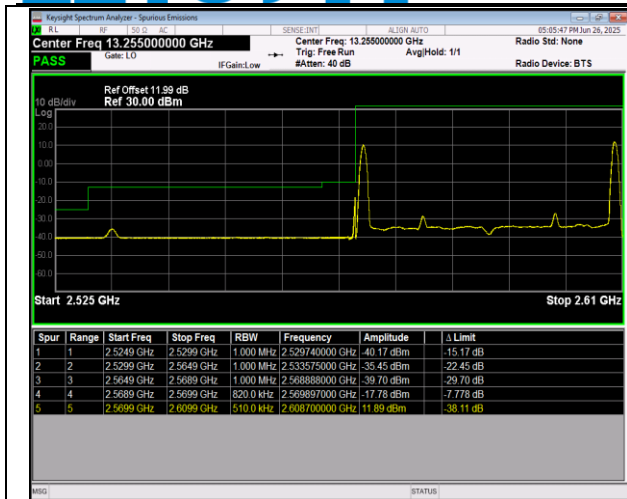
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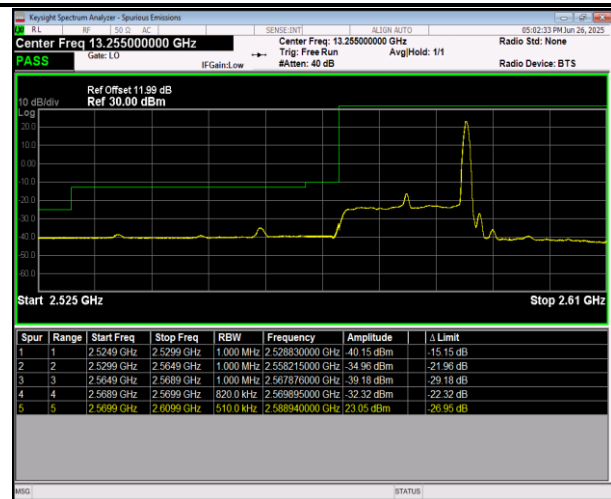
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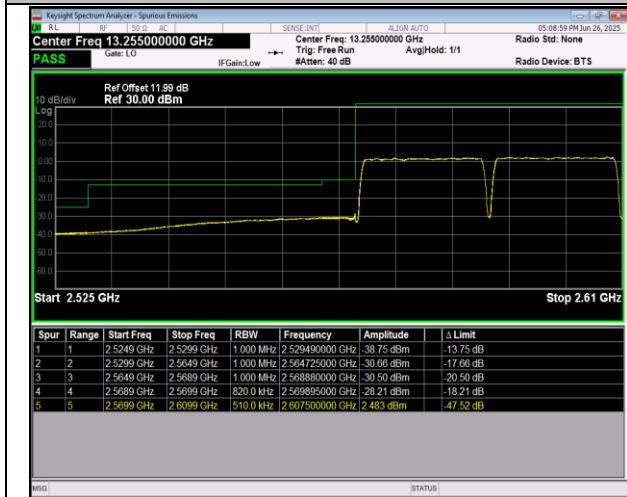
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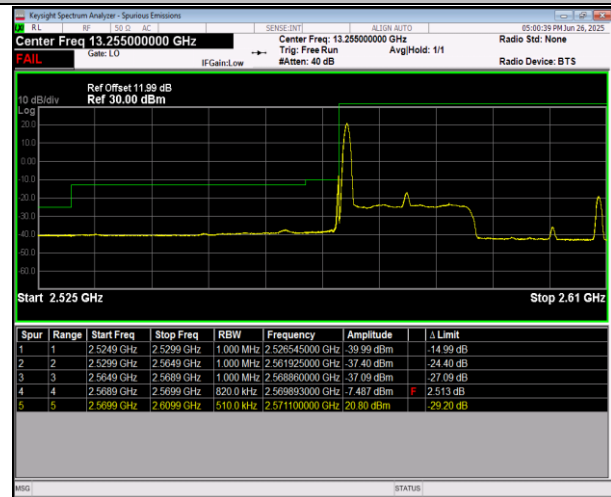
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SS



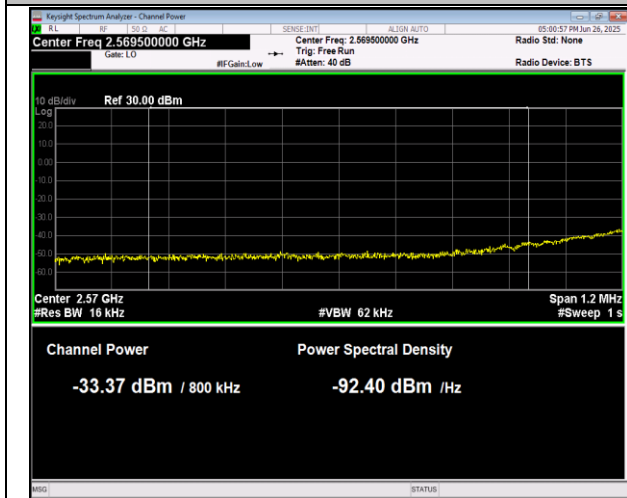
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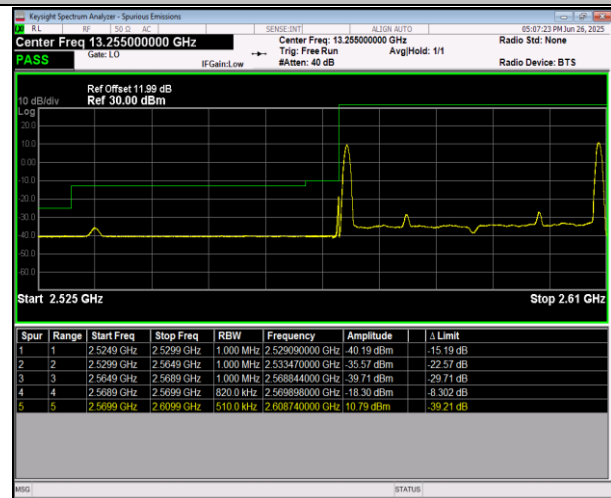
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S_Final1



38-38-20MHz-20MHz-16QAM@16QAM-16QAM@16QAM-
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S

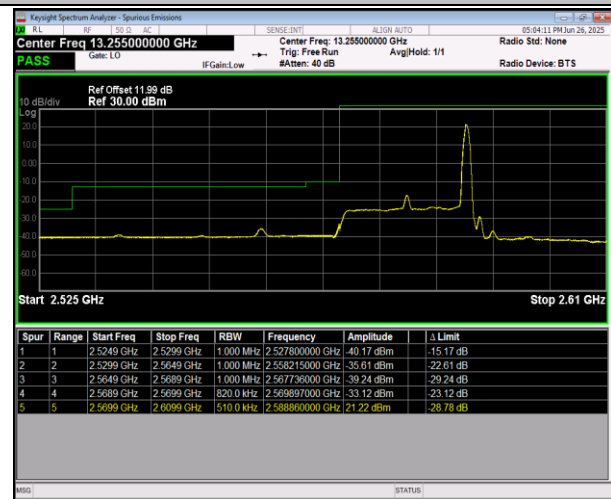


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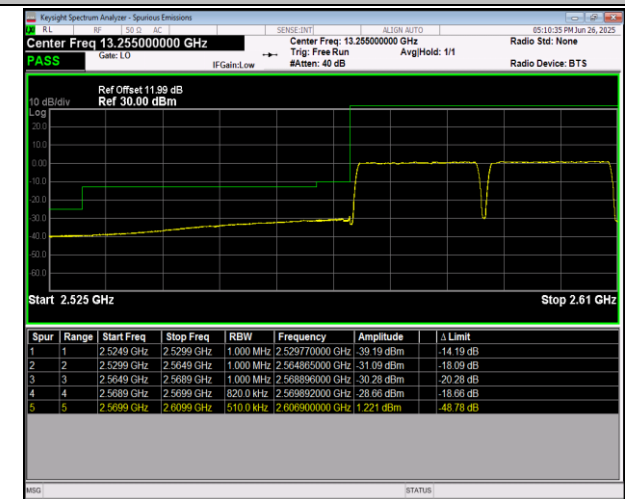


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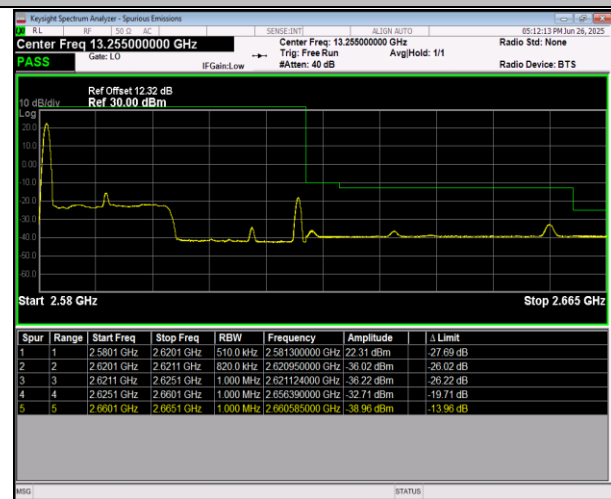
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SS



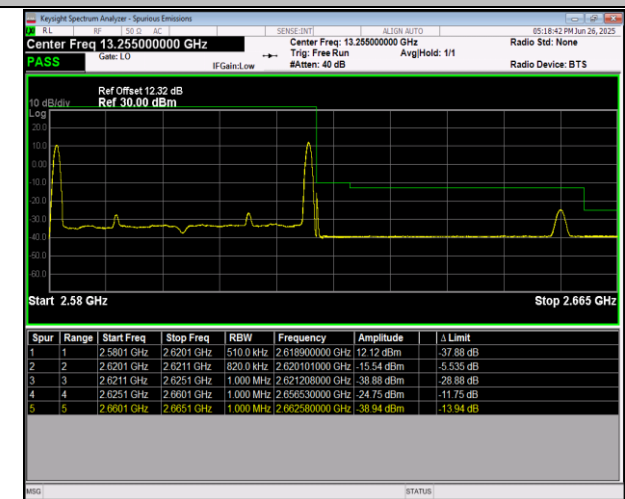
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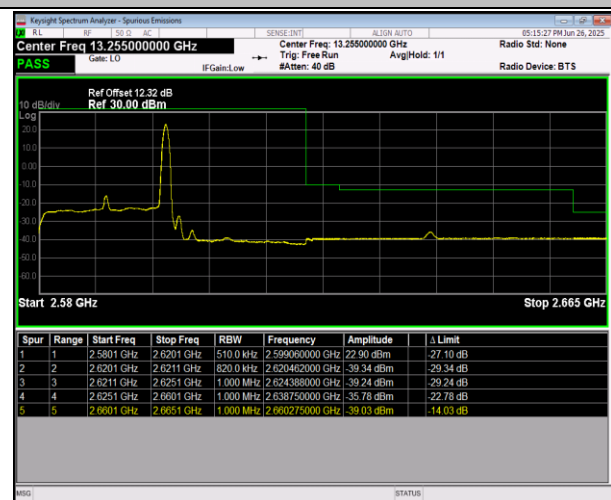
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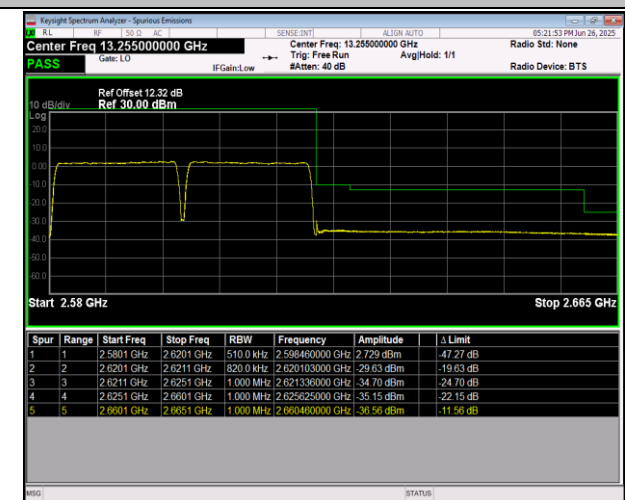
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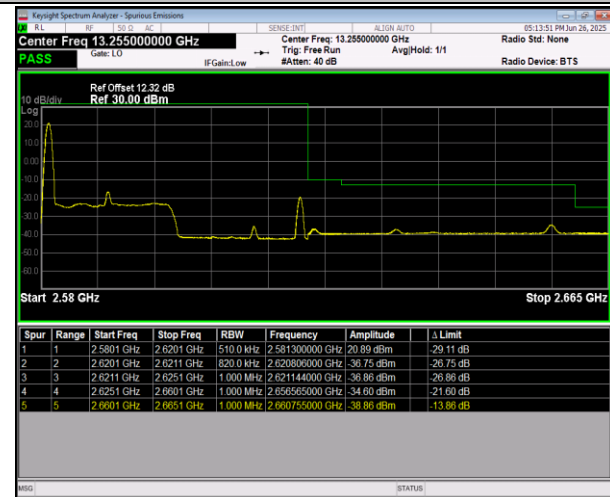


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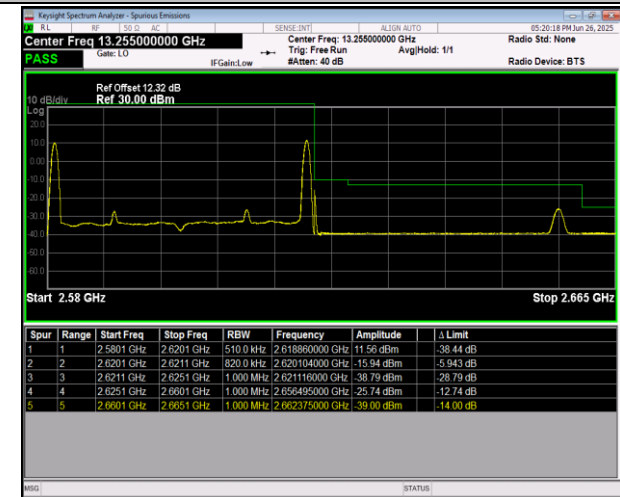
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S



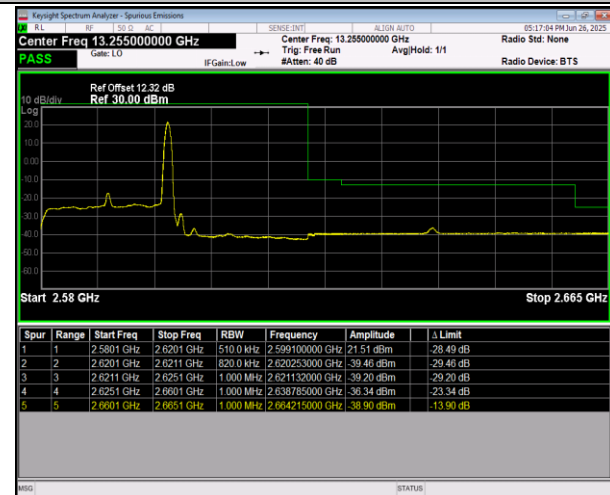
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S



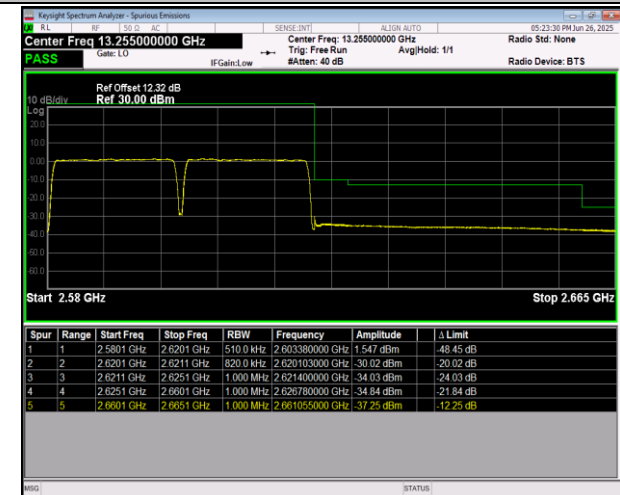
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SS



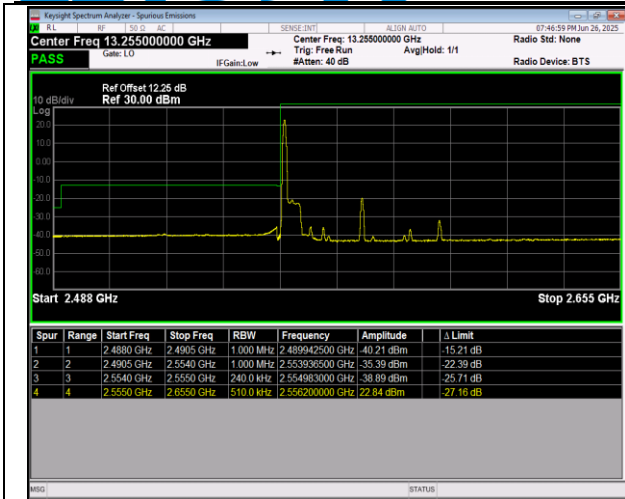
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ASS

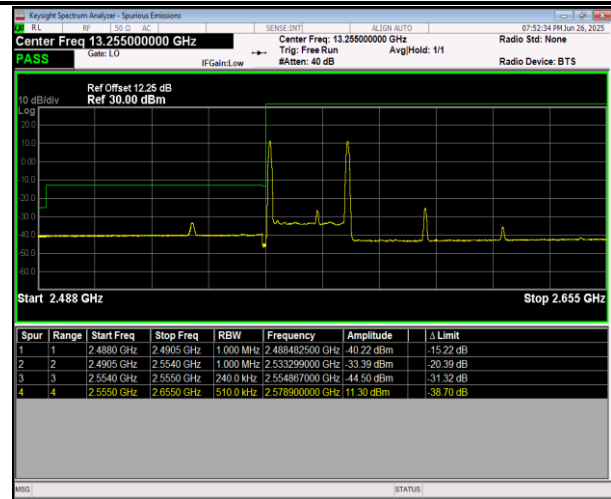


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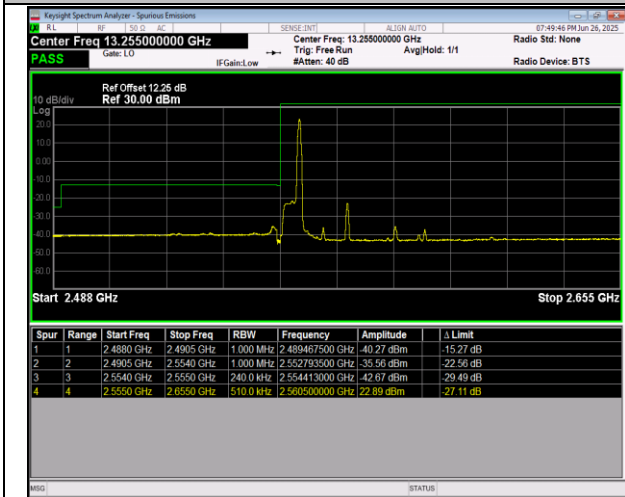
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@100RB#0-PASS



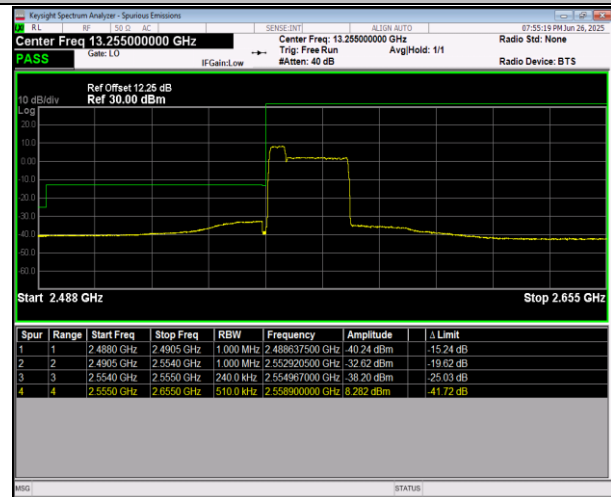
41(2555-2655)-41(2555-2655)-5MHz-20MHz-QPSK@QP
SK-QPSK@QPSK-40273-40390-1RB#24@25RB#0-0RB
#0@100RB#0-PASS



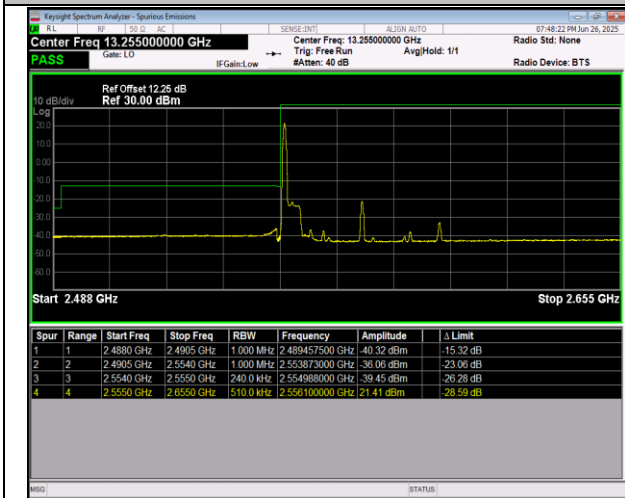
41(2555-2655)-41(2555-2655)-5MHz-20MHz-QPSK@QPS
K-QPSK@QPSK-40273-40390-25RB#0@25RB#0-100RB#
0@100RB#0-PASS



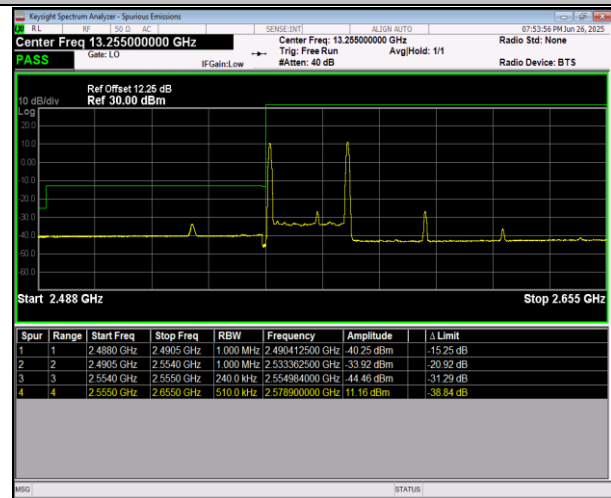
41(2555-2655)-41(2555-2655)-5MHz-20MHz-16QAM@16
QAM-16QAM@16QAM-40273-40390-1RB#0@25RB#0-0
RB#0@100RB#0-PASS



41(2555-2655)-41(2555-2655)-5MHz-20MHz-16QAM@16
QAM-16QAM@16QAM-40273-40390-1RB#0@25RB#0-1R
B#99@100RB#0-PASS

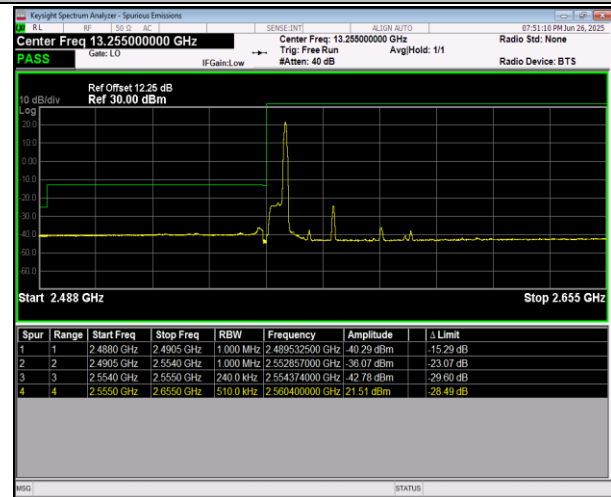


41(2555-2655)-41(2555-2655)-5MHz-20MHz-16QAM@16

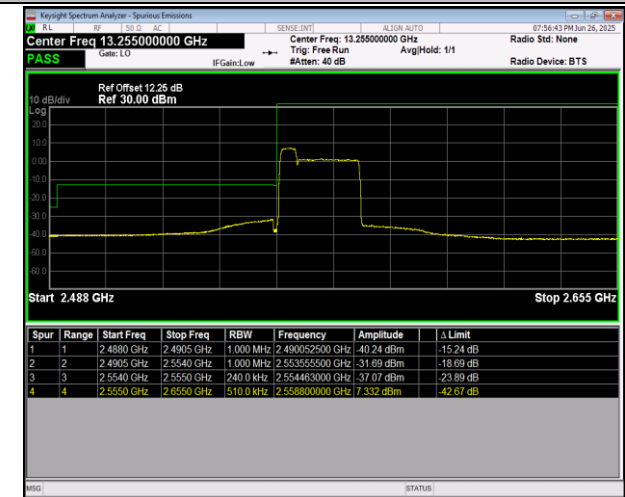


41(2555-2655)-41(2555-2655)-5MHz-20MHz-16QAM@16

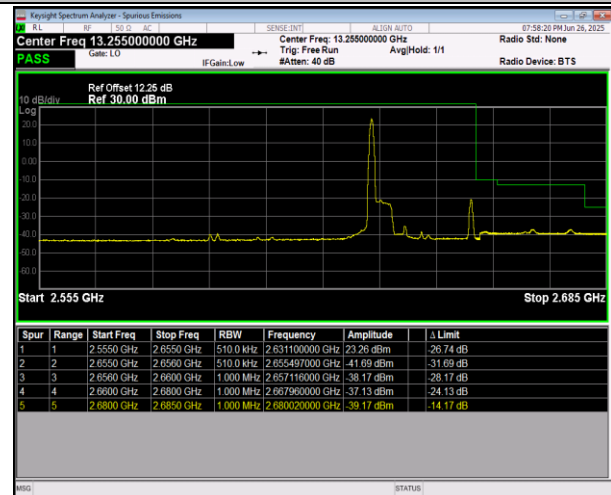
QAM-16QAM@16QAM-40273-40390-1RB#24@25RB#0-0RB#0@100RB#0-PASS



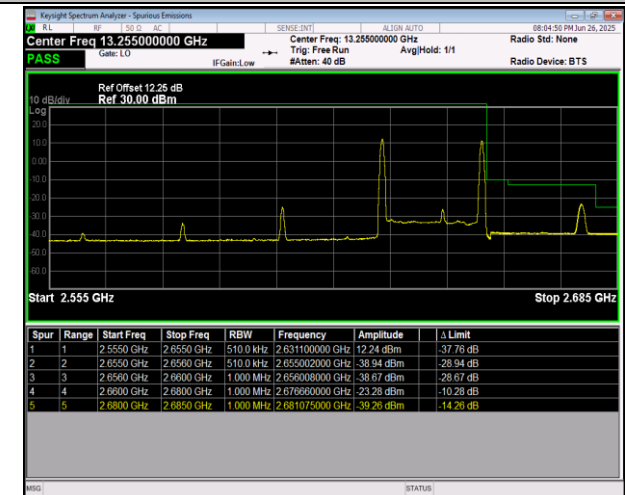
QAM-16QAM@16QAM-40273-40390-25RB#0@25RB#0-100RB#0@100RB#0-PASS



41(2555-2655)-41(2555-2655)-5MHz-20MHz-QPSK@QPSK-QPSK@QPSK-41023-41140-1RB#0@25RB#0-0RB#0@100RB#0-PASS

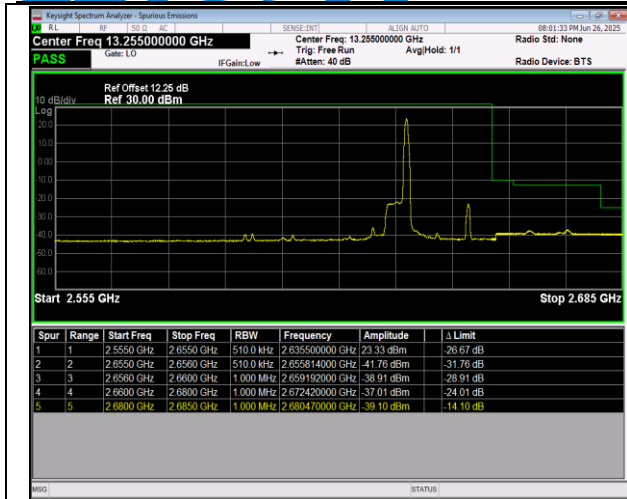


41(2555-2655)-41(2555-2655)-5MHz-20MHz-QPSK@QPSK-K-QPSK@QPSK-41023-41140-1RB#0@25RB#0-1RB#99@100RB#0-PASS

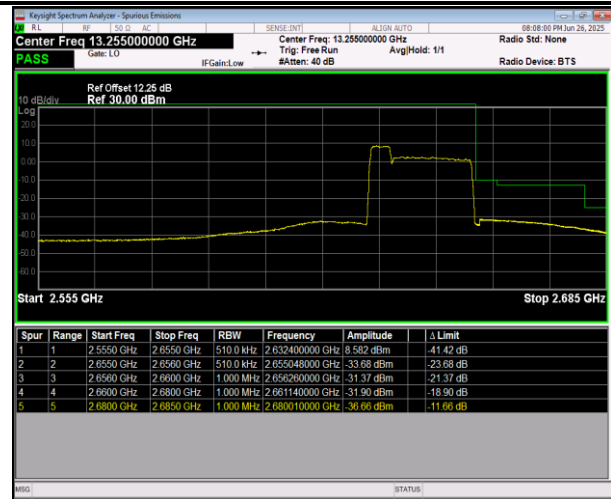


41(2555-2655)-41(2555-2655)-5MHz-20MHz-QPSK@QPSK-QPSK@QPSK-41023-41140-1RB#24@25RB#0-0RB#0@100RB#0-PASS

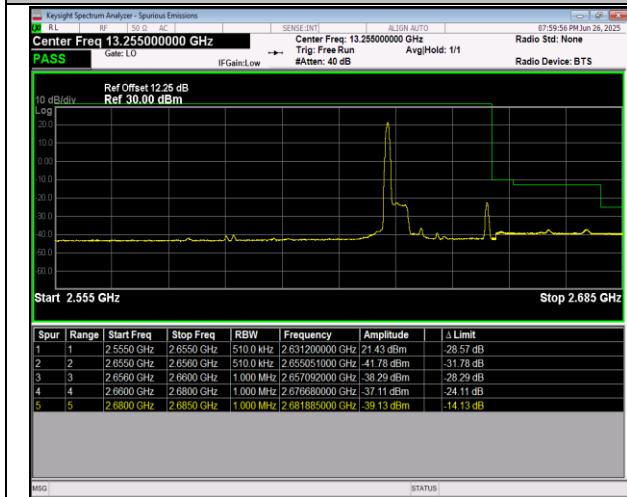
41(2555-2655)-41(2555-2655)-5MHz-20MHz-QPSK@QPSK-K-QPSK@QPSK-41023-41140-25RB#0@25RB#0-100RB#0@100RB#0-PASS



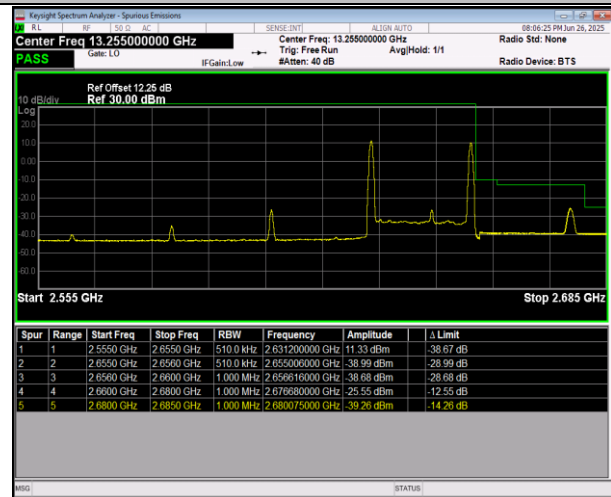
41(2555-2655)-41(2555-2655)-5MHz-20MHz-16QAM@16
QAM-16QAM@16QAM-41023-41140-1RB#0@25RB#0-0
RB#0@100RB#0-PASS



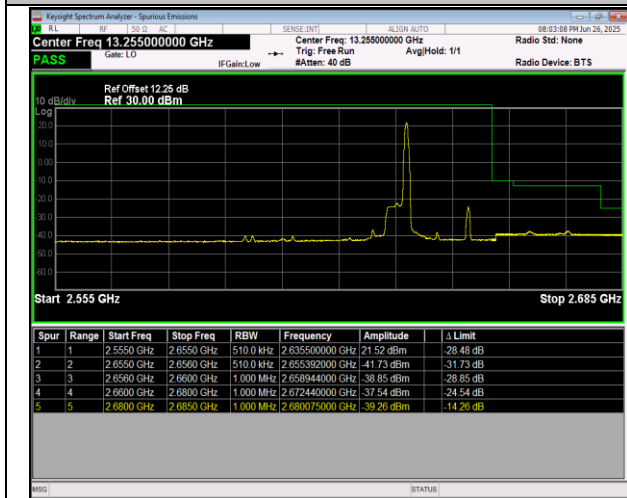
41(2555-2655)-41(2555-2655)-5MHz-20MHz-16QAM@16
QAM-16QAM@16QAM-41023-41140-1RB#0@25RB#0-1R
B#99@100RB#0-PASS



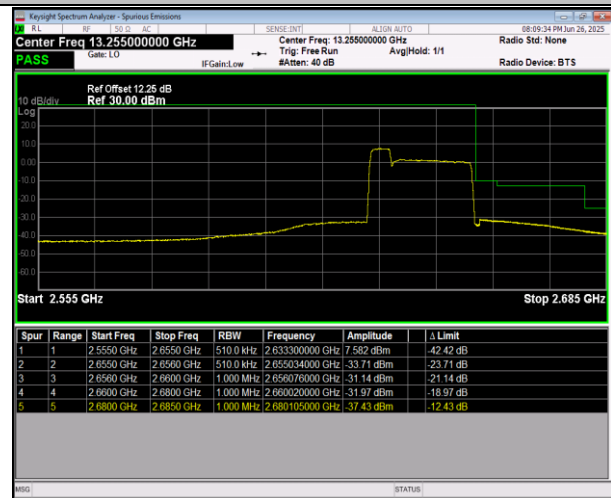
41(2555-2655)-41(2555-2655)-5MHz-20MHz-16QAM@16
QAM-16QAM@16QAM-41023-41140-1RB#24@25RB#0-
0RB#0@100RB#0-PASS



41(2555-2655)-41(2555-2655)-5MHz-20MHz-16QAM@16
QAM-16QAM@16QAM-41023-41140-25RB#0@25RB#0-1
00RB#0@100RB#0-PASS

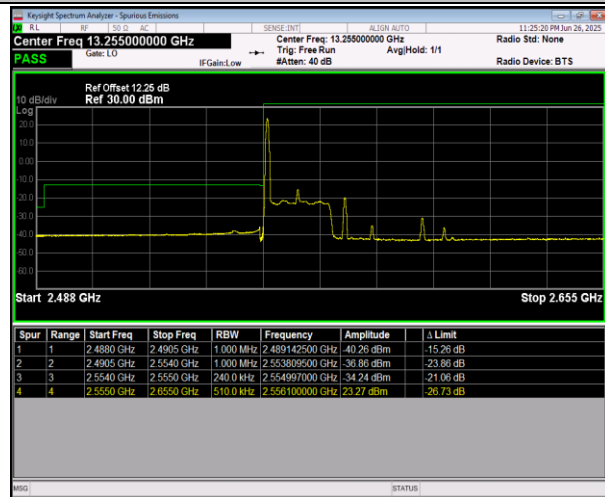


41(2555-2655)-41(2555-2655)-20MHz-5MHz-QPSK@QP

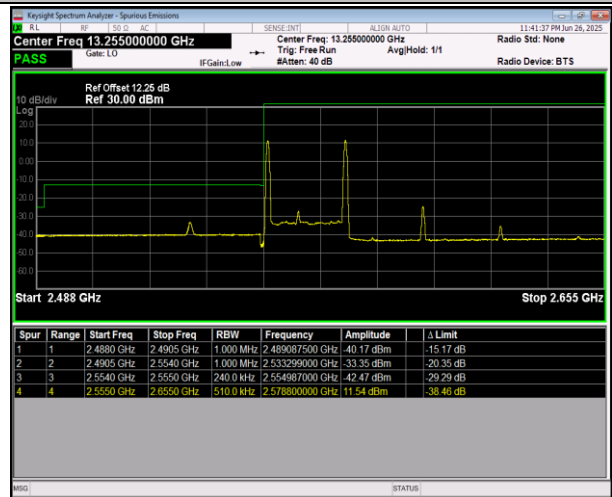


41(2555-2655)-41(2555-2655)-20MHz-5MHz-QPSK@QPS

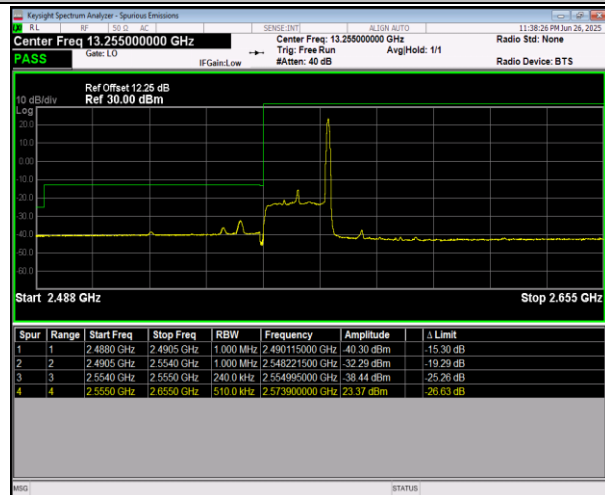
SK-QPSK@QPSK-40340-40475-1RB#0@100RB#0-0RB
#0@25RB#0-PASS



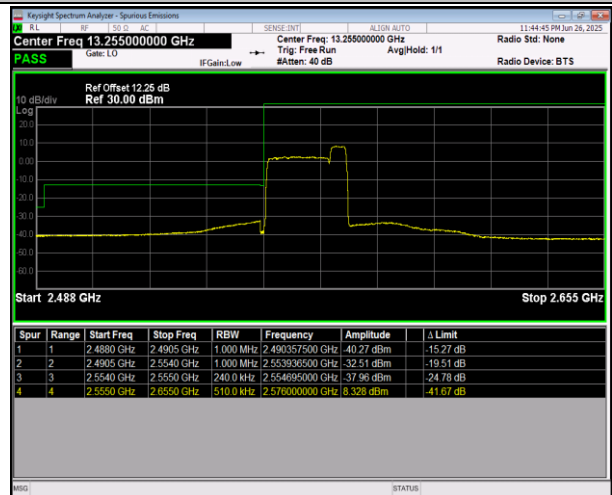
K-QPSK@QPSK-40340-40475-1RB#0@100RB#0-1RB#24
@25RB#0-PASS



41(2555-2655)-41(2555-2655)-20MHz-5MHz-QPSK@QP
SK-QPSK@QPSK-40340-40475-1RB#99@100RB#0-0R
B#0@25RB#0-PASS



41(2555-2655)-41(2555-2655)-20MHz-5MHz-QPSK@QPS
K-QPSK@QPSK-40340-40475-100RB#0@100RB#0-25RB
#0@25RB#0-PASS



41(2555-2655)-41(2555-2655)-20MHz-5MHz-16QAM@16
QAM-16QAM@16QAM-40340-40475-1RB#0@100RB#0-
0RB#0@25RB#0-PASS

41(2555-2655)-41(2555-2655)-20MHz-5MHz-16QAM@16
QAM-16QAM@16QAM-40340-40475-1RB#0@100RB#0-1
RB#24@25RB#0-PASS