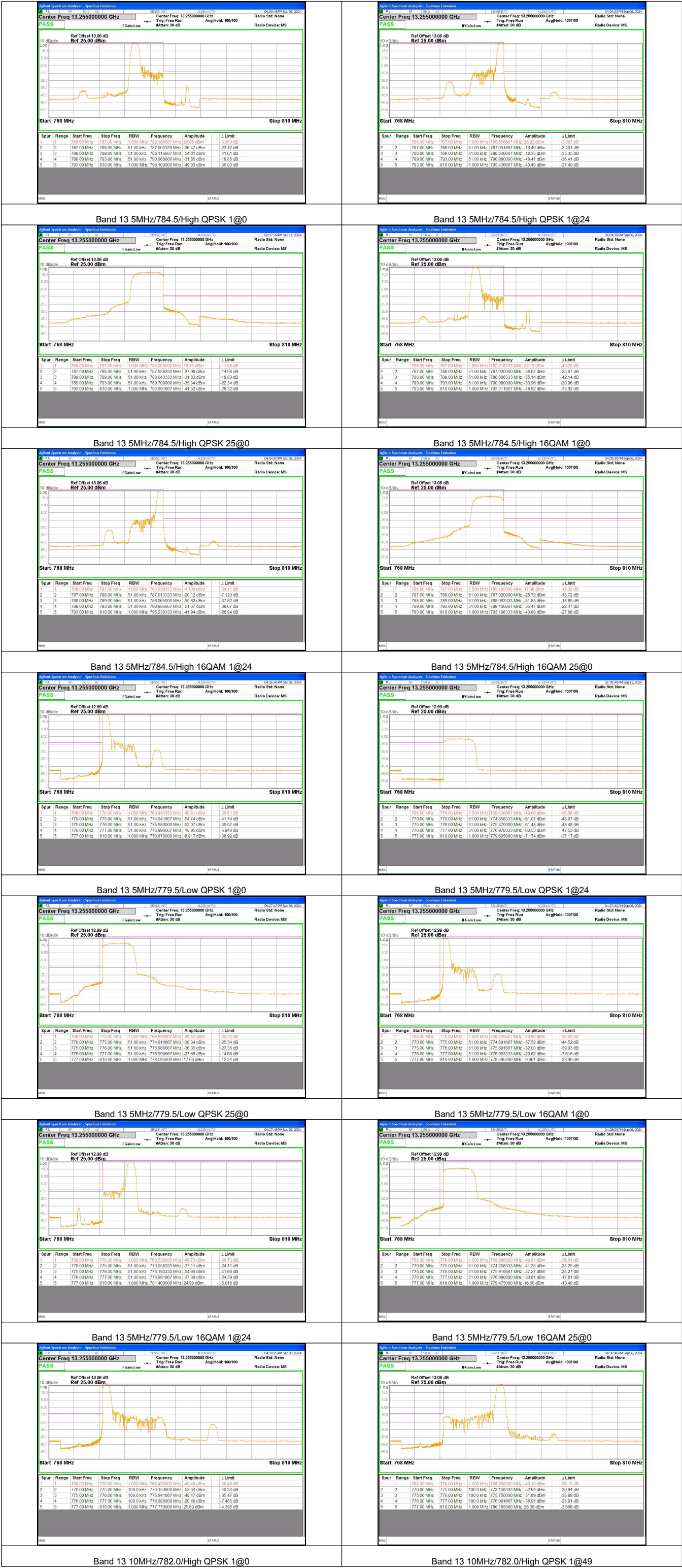




Band 13 5MHz/784.5/High QPSK 1@24

Advanced Spectrum Analyzer - Spurious Emissions

RL RF BW Span AC

Center Freq 13.255000000 GHz

PASS

IF Gain:Low

Trigger:Free Run

Attenu:30 dB

Center Freq 13.255000000 GHz

Trigger:Free Run

Attenu:30 dB

Avg/Hold:100/100

Radio Std:None

Radio Device:MS

04:26:30.94 Sep/06, 2024

10 dB/div

Log

Ref Offset 13.06 dB

Ref 25.00 dBm

Start 768 MHz

Stop 810 MHz

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	768.00 MHz	787.00 MHz	1.000 kHz	782.218333 MHz	25.15 dBm	-4.817 dB
2	2	787.00 MHz	788.00 MHz	51.00 kHz	787.020000 MHz	-38.67 dBm	-25.67 dB
3	3	788.00 MHz	789.00 MHz	51.00 kHz	788.008333 MHz	-55.14 dBm	-42.14 dB
4	4	789.00 MHz	793.00 MHz	51.00 kHz	790.980000 MHz	-33.96 dBm	-20.96 dB
5	5	793.00 MHz	810.00 MHz	1.000 kHz	793.311667 MHz	-48.92 dBm	-35.92 dB

MSI

STATUS

Band 13 5MHz/784.5/High QPSK 25@0

Advanced Spectrum Analyzer - Spurious Emissions

RL RF BW Span AC

Center Freq 13.255000000 GHz

PASS

IF Gain:Low

Trigger:Free Run

Attenu:30 dB

Center Freq 13.255000000 GHz

Trigger:Free Run

Attenu:30 dB

Avg/Hold:100/100

Radio Std:None

Radio Device:MS

04:28:51.94 Sep/06, 2024

10 dB/div

Log

Ref Offset 13.06 dB

Ref 25.00 dBm

Start 768 MHz

Stop 810 MHz

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	768.00 MHz	787.00 MHz	1.000 kHz	785.638333 MHz	-4.109 dBm	-34.11 dB
2	2	787.00 MHz	788.00 MHz	51.00 kHz	787.013333 MHz	-20.12 dBm	-7.120 dB
3	3	788.00 MHz	789.00 MHz	51.00 kHz	788.050000 MHz	-50.62 dBm	-37.62 dB
4	4	789.00 MHz	793.00 MHz	51.00 kHz	790.986667 MHz	-51.67 dBm	-38.67 dB
5	5	793.00 MHz	810.00 MHz	1.000 kHz	795.238333 MHz	-41.94 dBm	-28.94 dB

MSI

STATUS

Band 13 5MHz/784.5/High 16QAM 1@0

Advanced Spectrum Analyzer - Spurious Emissions

RL RF BW Span AC

Center Freq 13.255000000 GHz

PASS

IF Gain:Low

Trigger:Free Run

Attenu:30 dB

Center Freq 13.255000000 GHz

Trigger:Free Run

Attenu:30 dB

Avg/Hold:100/100

Radio Std:None

Radio Device:MS

04:29:30.94 Sep/06, 2024

10 dB/div

Log

Ref Offset 13.06 dB

Ref 25.00 dBm

Start 768 MHz

Stop 810 MHz

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	768.00 MHz	787.00 MHz	1.000 kHz	785.195000 MHz	17.68 dBm	-12.32 dB
2	2	787.00 MHz	788.00 MHz	51.00 kHz	787.020000 MHz	-28.72 dBm	-15.72 dB
3	3	788.00 MHz	789.00 MHz	51.00 kHz	788.063333 MHz	-31.85 dBm	-18.85 dB
4	4	789.00 MHz	793.00 MHz	51.00 kHz	789.106667 MHz	-35.47 dBm	-22.47 dB
5	5	793.00 MHz	810.00 MHz	1.000 kHz	793.198333 MHz	-40.88 dBm	-27.88 dB

MSI

STATUS

Band 13 5MHz/784.5/High 16QAM 1@24

Advanced Spectrum Analyzer - Spurious Emissions

RL RF BW Span AC

Center Freq 13.255000000 GHz

PASS

IF Gain:Low

Trigger:Free Run

Attenu:30 dB

Center Freq 13.255000000 GHz

Trigger:Free Run

Attenu:30 dB

Avg/Hold:100/100

Radio Std:None

Radio Device:MS

04:30:45.94 Sep/06, 2024

10 dB/div

Log

Ref Offset 12.99 dB

Ref 25.00 dBm

Start 768 MHz

Stop 810 MHz

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	768.00 MHz	770.00 MHz	1.000 kHz	769.848333 MHz	-48.61 dBm	-35.61 dB
2	2	770.00 MHz	775.00 MHz	51.00 kHz	774.941667 MHz	-54.74 dBm	-41.74 dB
3	3	775.00 MHz	776.00 MHz	51.00 kHz	775.980000 MHz	-52.07 dBm	-39.07 dB
4	4	776.00 MHz	777.00 MHz	51.00 kHz	776.996667 MHz	-18.95 dBm	-5.946 dB
5	5	777.00 MHz	810.00 MHz	1.000 kHz	778.670000 MHz	-8.917 dBm	-38.92 dB

MSI

STATUS

Band 13 5MHz/784.5/High 16QAM 25@0

Advanced Spectrum Analyzer - Spurious Emissions

RL RF BW Span AC

Center Freq 13.255000000 GHz

PASS

IF Gain:Low

Trigger:Free Run

Attenu:30 dB

Center Freq 13.255000000 GHz

Trigger:Free Run

Attenu:30 dB

Avg/Hold:100/100

Radio Std:None

Radio Device:MS

04:30:45.94 Sep/06, 2024

10 dB/div

Log

Ref Offset 12.99 dB

Ref 25.00 dBm

Start 768 MHz

Stop 810 MHz

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	768.00 MHz	770.00 MHz	1.000 kHz	769.848333 MHz	-48.68 dBm	-35.68 dB
2	2	770.00 MHz	775.00 MHz	51.00 kHz	774.858333 MHz	-61.07 dBm	-48.07 dB
3	3	775.00 MHz	776.00 MHz	51.00 kHz	775.370000 MHz	-61.48 dBm	-48.48 dB
4	4	776.00 MHz	777.00 MHz	51.00 kHz	776.978333 MHz	-40.53 dBm	-47.53 dB
5	5	777.00 MHz	810.00 MHz	1.000 kHz	779.695000 MHz	-7.174 dBm	-37.17 dB

MSI

STATUS

Band 13 5MHz/779.5/Low QPSK 1@0

Advanced Spectrum Analyzer - Spurious Emissions

RL RF BW Span AC

Center Freq 13.255000000 GHz

PASS

IF Gain:Low

Trigger:Free Run

Attenu:30 dB

Center Freq 13.255000000 GHz

Trigger:Free Run

Attenu:30 dB

Avg/Hold:100/100

Radio Std:None

Radio Device:MS

04:27:17.94 Sep/06, 2024

10 dB/div

Log

Ref Offset 12.99 dB

Ref 25.00 dBm

Start 768 MHz

Stop 810 MHz

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	768.00 MHz	770.00 MHz	1.000 kHz	769.946667 MHz	-49.52 dBm	-36.52 dB
2	2	770.00 MHz	775.00 MHz	51.00 kHz	774.916667 MHz	-38.34 dBm	-25.34 dB
3	3	775.00 MHz	776.00 MHz	51.00 kHz	775.986667 MHz	-36.35 dBm	-23.35 dB
4	4	776.00 MHz	777.00 MHz	51.00 kHz	776.996667 MHz	-27.68 dBm	-14.68 dB
5	5	777.00 MHz	810.00 MHz	1.000 kHz	778.595000 MHz	17.68 dBm	-12.34 dB

MSI

STATUS

Band 13 5MHz/779.5/Low QPSK 1@24

Advanced Spectrum Analyzer - Spurious Emissions

RL RF BW Span AC

Center Freq 13.255000000 GHz

PASS

IF Gain:Low

Trigger:Free Run

Attenu:30 dB

Center Freq 13.255000000 GHz

Trigger:Free Run

Attenu:30 dB

Avg/Hold:100/100

Radio Std:None

Radio Device:MS

04:27:35.94 Sep/06, 2024

10 dB/div

Log

Ref Offset 12.99 dB

Ref 25.00 dBm

Start 768 MHz

Stop 810 MHz

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	768.00 MHz	770.00 MHz	1.000 kHz	768.229667 MHz	-49.69 dBm	-36.69 dB
2	2	770.00 MHz	775.00 MHz	51.00 kHz	774.691667 MHz	-57.52 dBm	-44.52 dB
3	3	775.00 MHz	776.00 MHz	51.00 kHz	775.991667 MHz	-52.03 dBm	-39.03 dB
4	4	776.00 MHz	777.00 MHz	51.00 kHz	776.993333 MHz	-20.62 dBm	-7.616 dB
5	5	777.00 MHz	810.00 MHz	1.000 kHz	778.595000 MHz	-9.061 dBm	-39.06 dB

MSI

STATUS

Band 13 5MHz/779.5/Low QPSK 25@0

Advanced Spectrum Analyzer - Spurious Emissions

RL RF BW Span AC

Center Freq 13.255000000 GHz

PASS

IF Gain:Low

Trigger:Free Run

Attenu:30 dB

Center Freq 13.255000000 GHz

Trigger:Free Run

Attenu:30 dB

Avg/Hold:100/100

Radio Std:None

Radio Device:MS

04:27:45.94 Sep/06, 2024

10 dB/div

Log

Ref Offset 12.99 dB

Ref 25.00 dBm

Start 768 MHz

Stop 810 MHz

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	768.00 MHz	770.00 MHz	1.000 kHz	769.960000 MHz	-48.61 dBm	-35.61 dB
2	2	770.00 MHz	775.00 MHz	51.00 kHz	774.268333 MHz	-41.26 dBm	-28.26 dB
3	3	775.00 MHz	776.00 MHz	51.00 kHz	775.916667 MHz	-37.27 dBm	-24.27 dB
4	4	776.00 MHz	777.00 MHz	51.00 kHz	776.990000 MHz	-30.61 dBm	-17.61 dB
5	5	777.00 MHz	810.00 MHz	1.000 kHz	779.475000 MHz	16.60 dBm	-13.40 dB

MSI

STATUS

Band 13 5MHz/779.5/Low 16QAM 1@0

Advanced Spectrum Analyzer - Spurious Emissions

RL RF BW Span AC

Center Freq 13.255000000 GHz

PASS

IF Gain:Low

Trigger:Free Run

Attenu:30 dB

Center Freq 13.255000000 GHz

Trigger:Free Run

Attenu:30 dB

Avg/Hold:100/100

Radio Std:None

Radio Device:MS

04:28:03.94 Sep/06, 2024

10 dB/div

Log

Ref Offset 12.99 dB

Ref 25.00 dBm

Start 768 MHz

Stop 810 MHz

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	768.00 MHz	770.00 MHz	1.000 kHz	769.960000 MHz	-48.61 dBm	-35.61 dB
2	2	770.00 MHz	775.00 MHz	51.00 kHz	773.158333 MHz	-52.94 dBm	-39.94 dB
3	3	775.00 MHz	776.00 MHz	100.0 kHz	775.750000 MHz	-51.69 dBm	-38.69 dB
4	4	776.00 MHz	777.00 MHz	100.0 kHz	776.991667 MHz	-38.91 dBm	-25.91 dB
5	5	777.00 MHz	810.00 MHz	1.000 kHz	786.185000 MHz	26.39 dBm	-3.608 dB

MSI

STATUS

Band 13 5MHz/779.5/Low 16QAM 1@24

Advanced Spectrum Analyzer - Spurious Emissions

RL RF BW Span AC

Center Freq 13.255000000 GHz

PASS

IF Gain:Low

Trigger:Free Run

Attenu:30 dB

Center Freq 13.255000000 GHz

Trigger:Free Run

Attenu:30 dB

Avg/Hold:100/100

Radio Std:None

Radio Device:MS

04:30:25.94 Sep/06, 2024

10 dB/div

Log

Ref Offset 13.06 dB

Ref 25.00 dBm

Start 768 MHz

Stop 810 MHz

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	768.00 MHz	770.00 MHz	1.000 kHz	768.450000 MHz	-49.48 dBm	-36.48 dB
2	2	770.00 MHz	775.00 MHz	100.0 kHz	773.150000 MHz	-53.48 dBm	-40.34 dB
3	3	775.00 MHz	776.00 MHz	100.0 kHz	775.941667 MHz	-48.47 dBm	-35.47 dB
4	4	776.00 MHz	777.00 MHz	100.0 kHz	776.980000 MHz	-20.48 dBm	-7.485 dB
5	5	777.00 MHz	810.00 MHz	1.000 kHz	777.770000 MHz	25.80 dBm	-4.396 dB

MSI

STATUS

Band 13 5MHz/779.5/Low 16QAM 25@0

Advanced Spectrum Analyzer - Spurious Emissions

RL RF BW Span AC

Center Freq 13.255000000 GHz

PASS

IF Gain:Low

Trigger:Free Run

Attenu:30 dB

Center Freq 13.255000000 GHz

Trigger:Free Run

Attenu:30 dB

Avg/Hold:100/100

Radio Std:None

Radio Device:MS

04:30:47.94 Sep/06, 2024

10 dB/div

Log

Ref Offset 13.06 dB

Ref 25.00 dBm

Start 768 MHz

Stop 810 MHz

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	768.00 MHz	770.00 MHz	1.000 kHz	768.900000 MHz	-49.10 dBm	-36.10 dB
2	2	770.00 MHz	775.00 MHz	100.0 kHz	773.158333 MHz	-52.94 dBm	-39.94 dB
3	3	775.00 MHz	776.00 MHz	100.0 kHz	775.750000 MHz	-51.69 dBm	-38.69 dB
4	4	776.00 MHz	777.00 MHz	100.0 kHz	776.991667 MHz	-38.91 dBm	-25.91 dB
5	5	777.00 MHz	810.00 MHz	1.000 kHz	786.185000 MHz	26.39 dBm	-3.608 dB

MSI

STATUS

Band 13 10MHz/782.0/High QPSK 1@0

Advanced Spectrum Analyzer - Spurious Emissions

RL RF BW Span AC

Center Freq 13.255000000 GHz

PASS

IF Gain:Low

Trigger:Free Run

Attenu:30 dB

Center Freq 13.255000000 GHz

Trigger:Free Run

Attenu:30 dB

Avg/Hold:100/100

Radio Std:None

Radio Device:MS

04:30:47.94 Sep/06, 2024

10 dB/div

Log

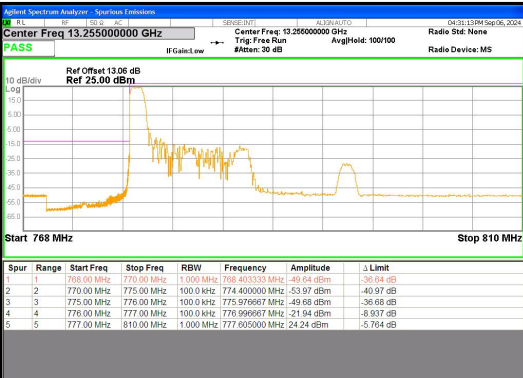
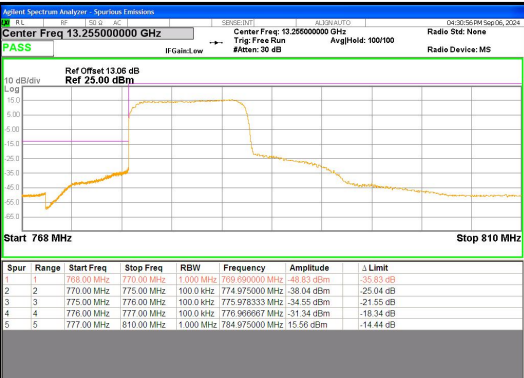
Ref Offset 13.06 dB

Ref 25.00 dBm

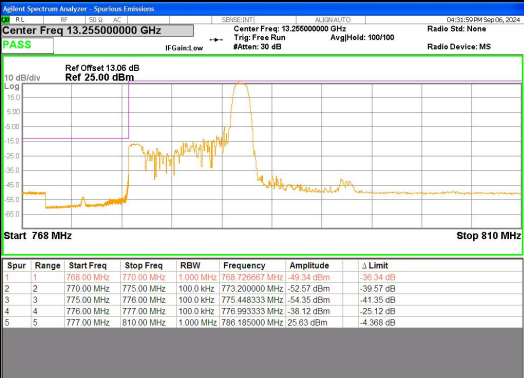
Start 768 MHz

Stop 810 MHz

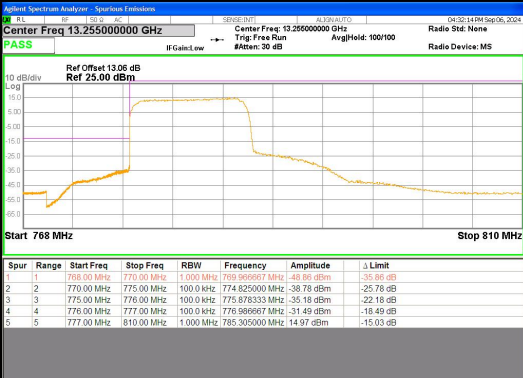
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	768.00 MHz	770.00 MHz	1.000 kHz	768.450000 MHz	-49.48 dBm	-36.48 dB
2	2	770.00 MHz	775.00 MHz	100.0 kHz	773.150000 MHz	-53.48 dBm	-40.34 dB
3	3	775.00 MHz	776.00 MHz	10			



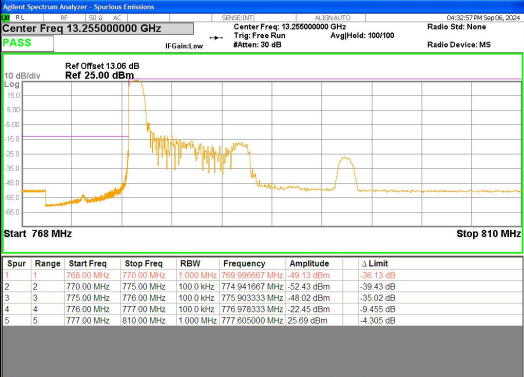
Band 13 10MHz/782.0/High QPSK 50@0



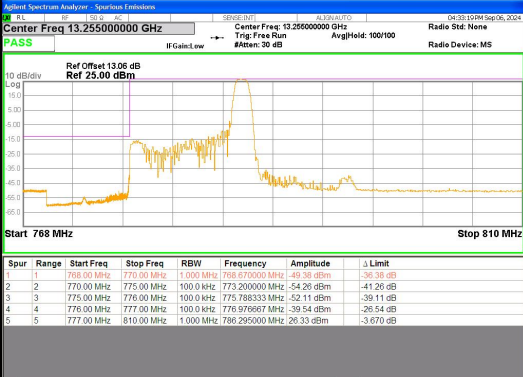
Band 13 10MHz/782.0/High 16QAM 1@0



Band 13 10MHz/782.0/High 16QAM 1@49



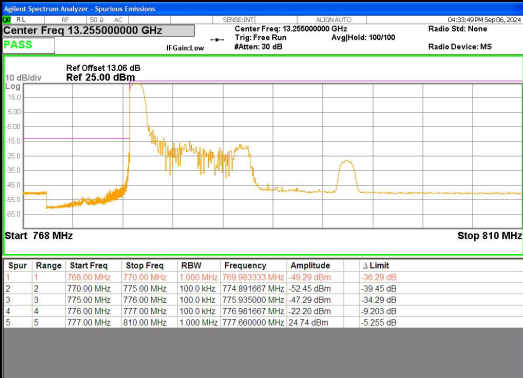
Band 13 10MHz/782.0/High 16QAM 50@0



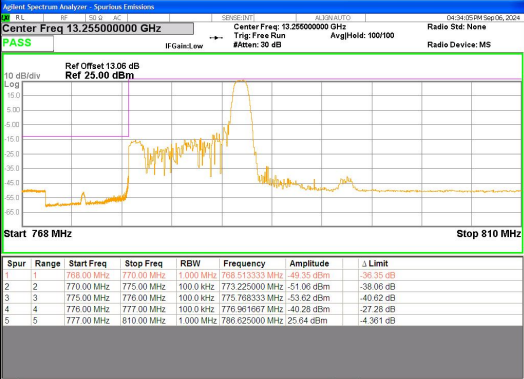
Band 13 10MHz/782.0/Low QPSK 1@0



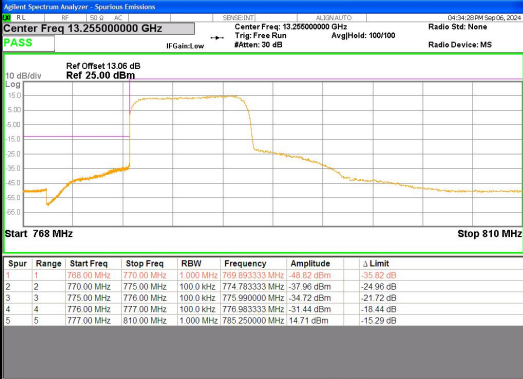
Band 13 10MHz/782.0/Low QPSK 1@49



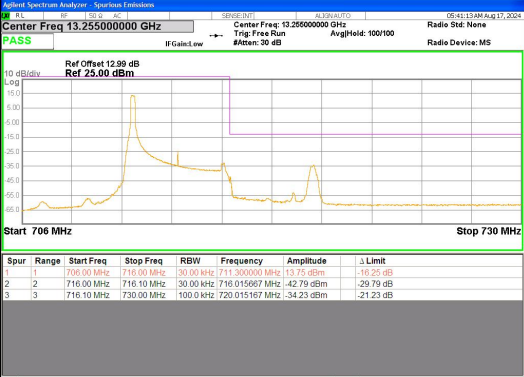
Band 13 10MHz/782.0/Low QPSK 50@0



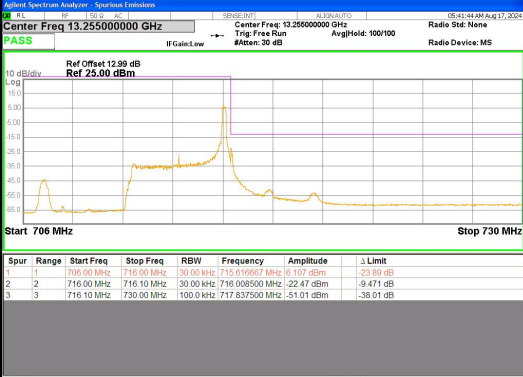
Band 13 10MHz/782.0/Low 16QAM 1@0



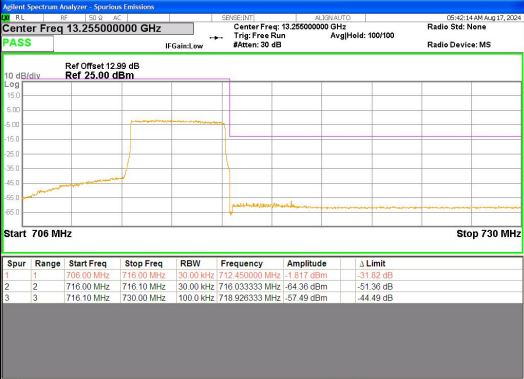
Band 13 10MHz/782.0/Low 16QAM 1@49



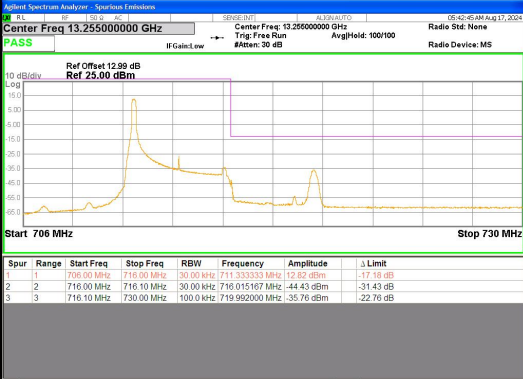
Band 13 10MHz/782.0/Low 16QAM 50@0



Band 17 5MHz/713.5/High QPSK 1@0



Band 17 5MHz/713.5/High QPSK 1@24



Band 17 5MHz/713.5/High QPSK 25@0

Band 17 5MHz/713.5/High 16QAM 1@0