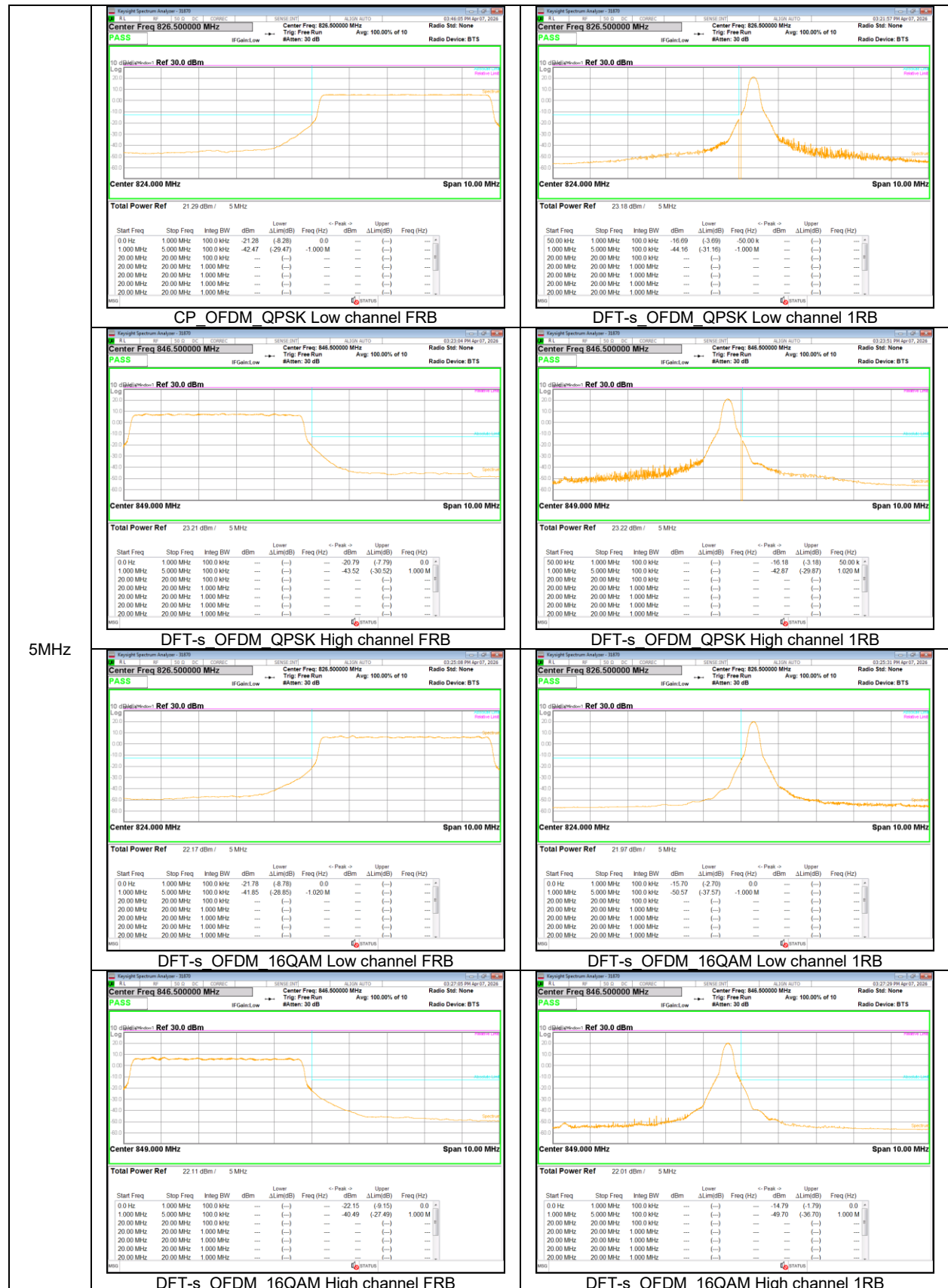
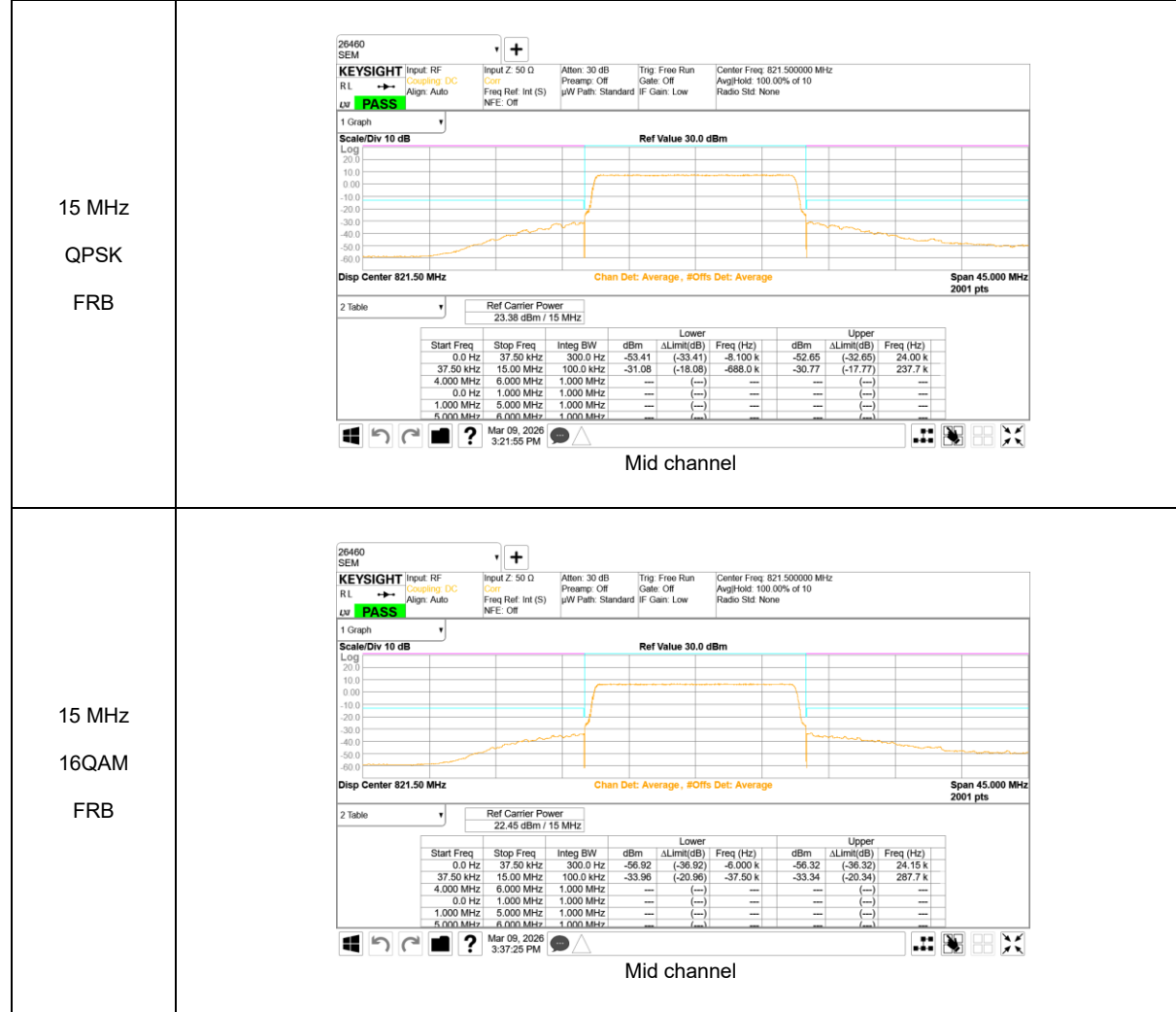




8.4.2. EMISSION MASK RESULT

LTE Band 26 (Part 90) Full RB (ANT A)



10 MHz

QPSK

FRB

26460
SEM

KEYSIGHT

Input: RF
Coupling: DC
Align: Auto

Input Z: 50 Ω
Corr
NFE: Off

Atten: 30 dB
Preamp: Off
µW Path: Standard
IF Gain: Low

Trig: Free Run
Gate: Off

Center Freq: 819.000000 MHz
Avg/Hold: 100.00% of 10
Radio Std: None

1 Graph

Scale/Div 10 dB
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0

Ref Value 30.0 dBm

Chan Det: Average , #Ofs Det: Average

Span 30.000 MHz
2001 pts

2 Table

Ref Carrier Power
23.55 dBm / 10 MHz

Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
0.0 Hz	37.50 kHz	300.0 Hz	-52.40	(-32.40)	-3.150 k	-52.07	(-32.07)	5.850 k
37.50 kHz	10.00 MHz	100.0 kHz	-29.25	(-16.25)	-37.50 k	-29.58	(-16.58)	37.50 k
4.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
0.0 Hz	1.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
1.000 MHz	5.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
5.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---

Mar 09, 2026
3:53:43 PM

Mid channel

10 MHz

16QAM

FRB

26460
SEM

KEYSIGHT

Input: RF
Coupling: DC
Align: Auto

Input Z: 50 Ω
Corr
NFE: Off

Atten: 30 dB
Preamp: Off
µW Path: Standard
IF Gain: Low

Trig: Free Run
Gate: Off

Center Freq: 819.000000 MHz
Avg/Hold: 100.00% of 10
Radio Std: None

1 Graph

Scale/Div 10 dB
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0

Ref Value 30.0 dBm

Chan Det: Average , #Ofs Det: Average

Span 30.000 MHz
2001 pts

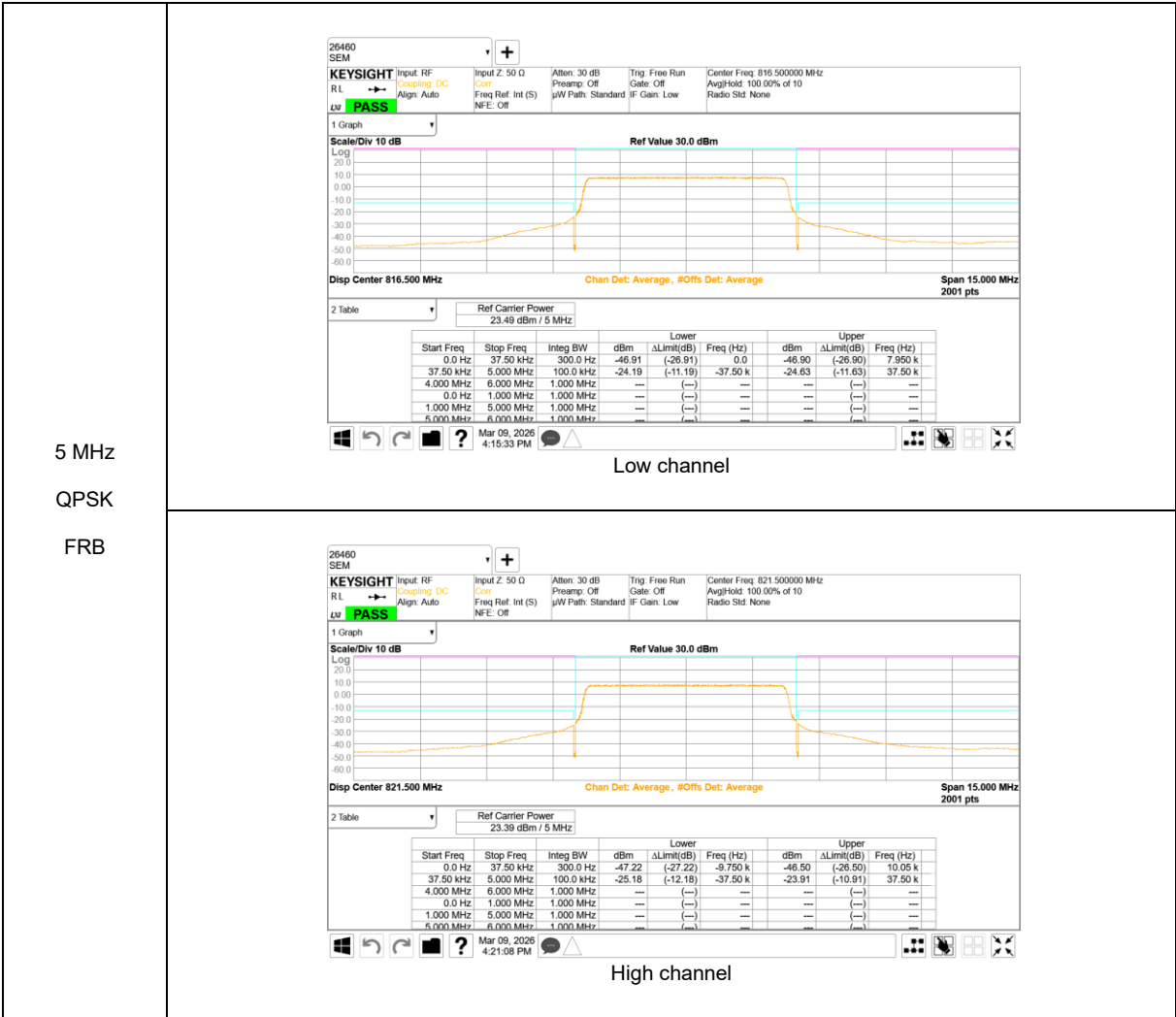
2 Table

Ref Carrier Power
22.59 dBm / 10 MHz

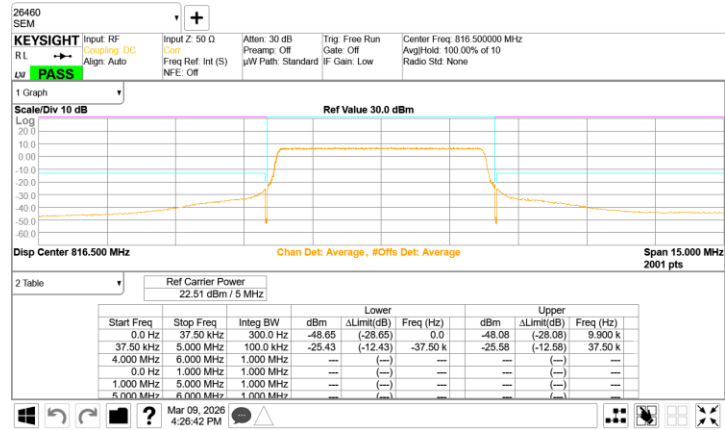
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
0.0 Hz	37.50 kHz	300.0 Hz	-54.53	(-34.53)	-2.550 k	-54.62	(-34.62)	27.90 k
37.50 kHz	10.00 MHz	100.0 kHz	-31.01	(-18.01)	-37.50 k	-31.30	(-18.30)	37.50 k
4.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
0.0 Hz	1.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
1.000 MHz	5.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
5.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---

Mar 09, 2026
3:59:05 PM

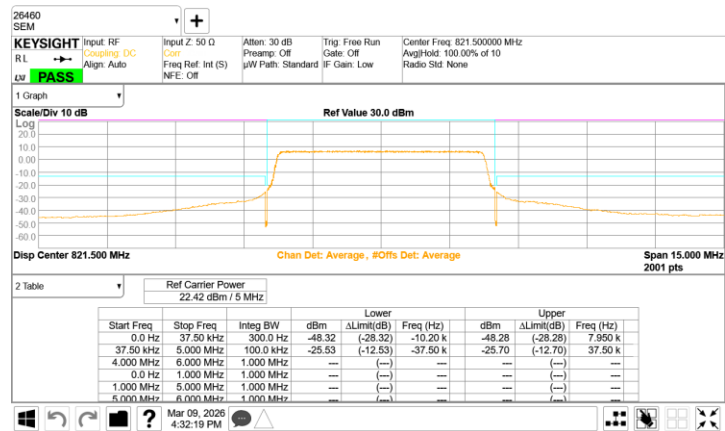
Mid channel



5 MHz
16QAM
FRB

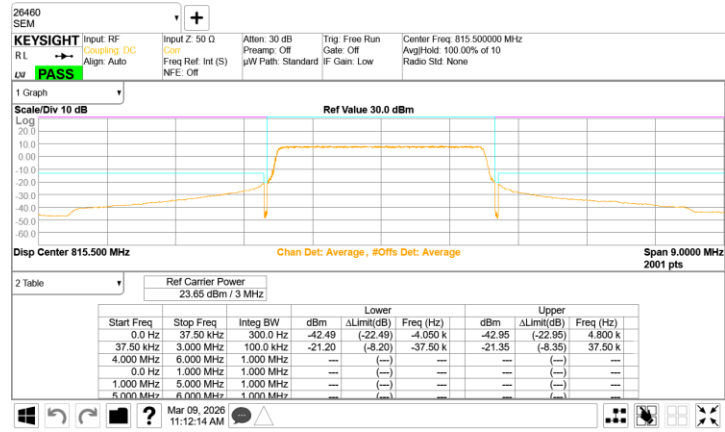


Low channel

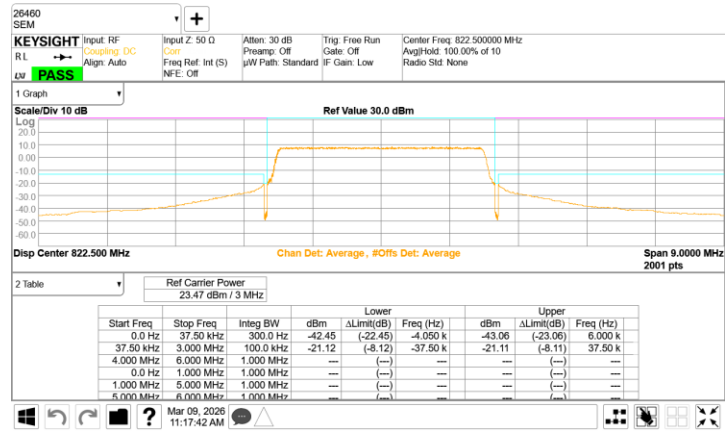


High channel

3 MHz
QPSK
FRB

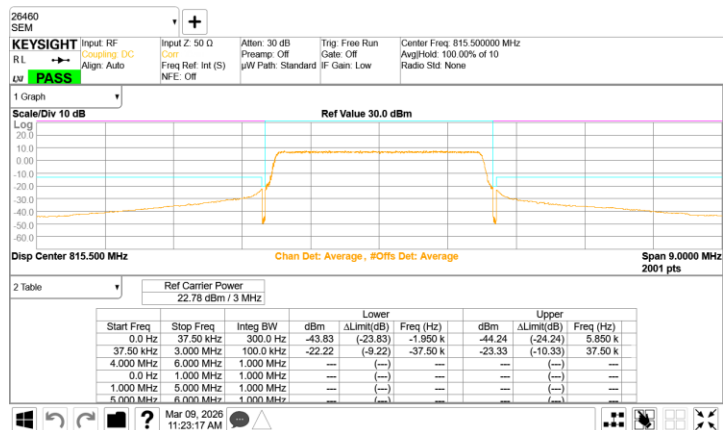


Low channel

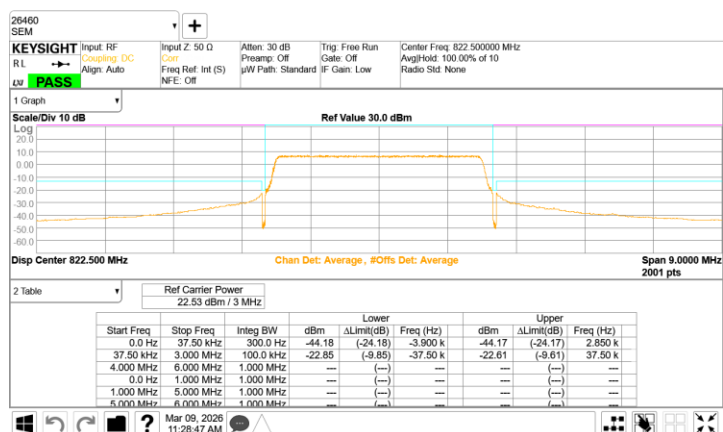


High channel

3 MHz
16QAM
FRB

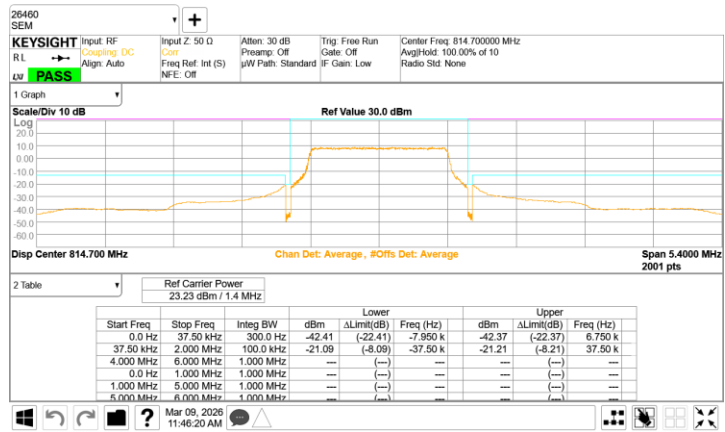


Low channel

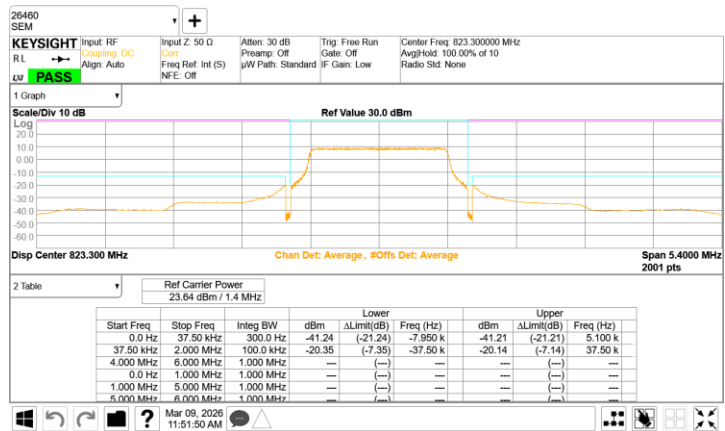


High channel

1.4 MHz
QPSK
FRB

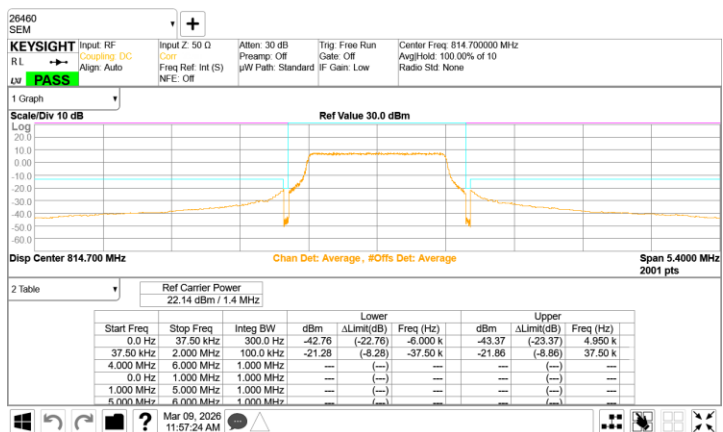


Low channel

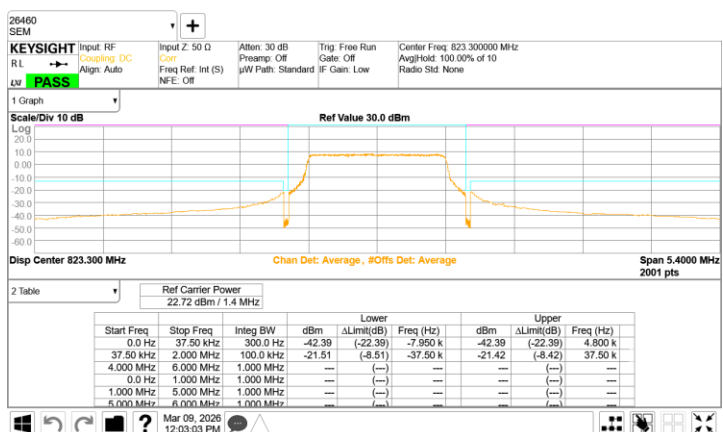


High channel

1.4 MHz
16QAM
FRB

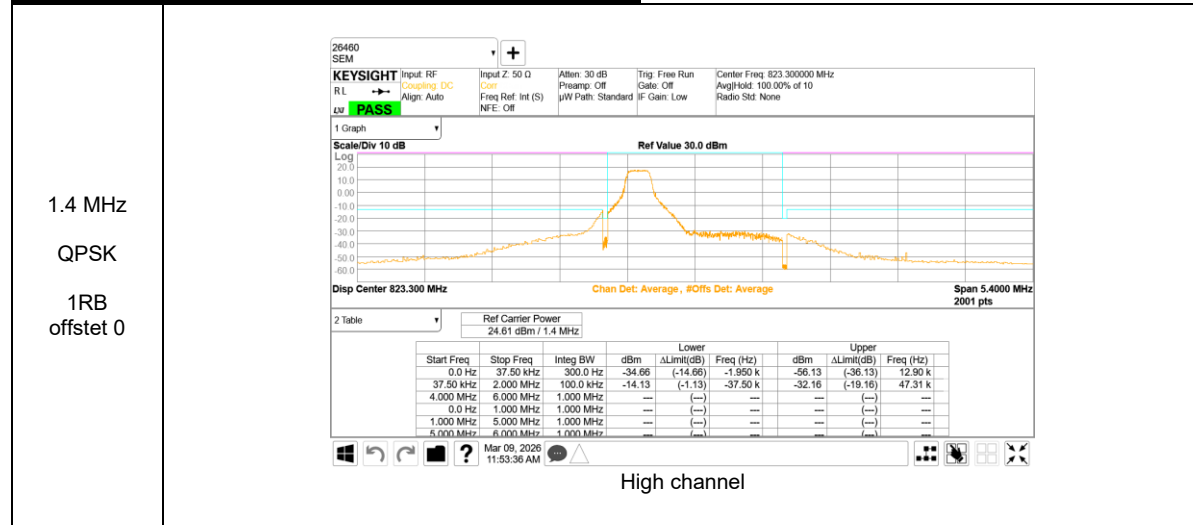


Low channel

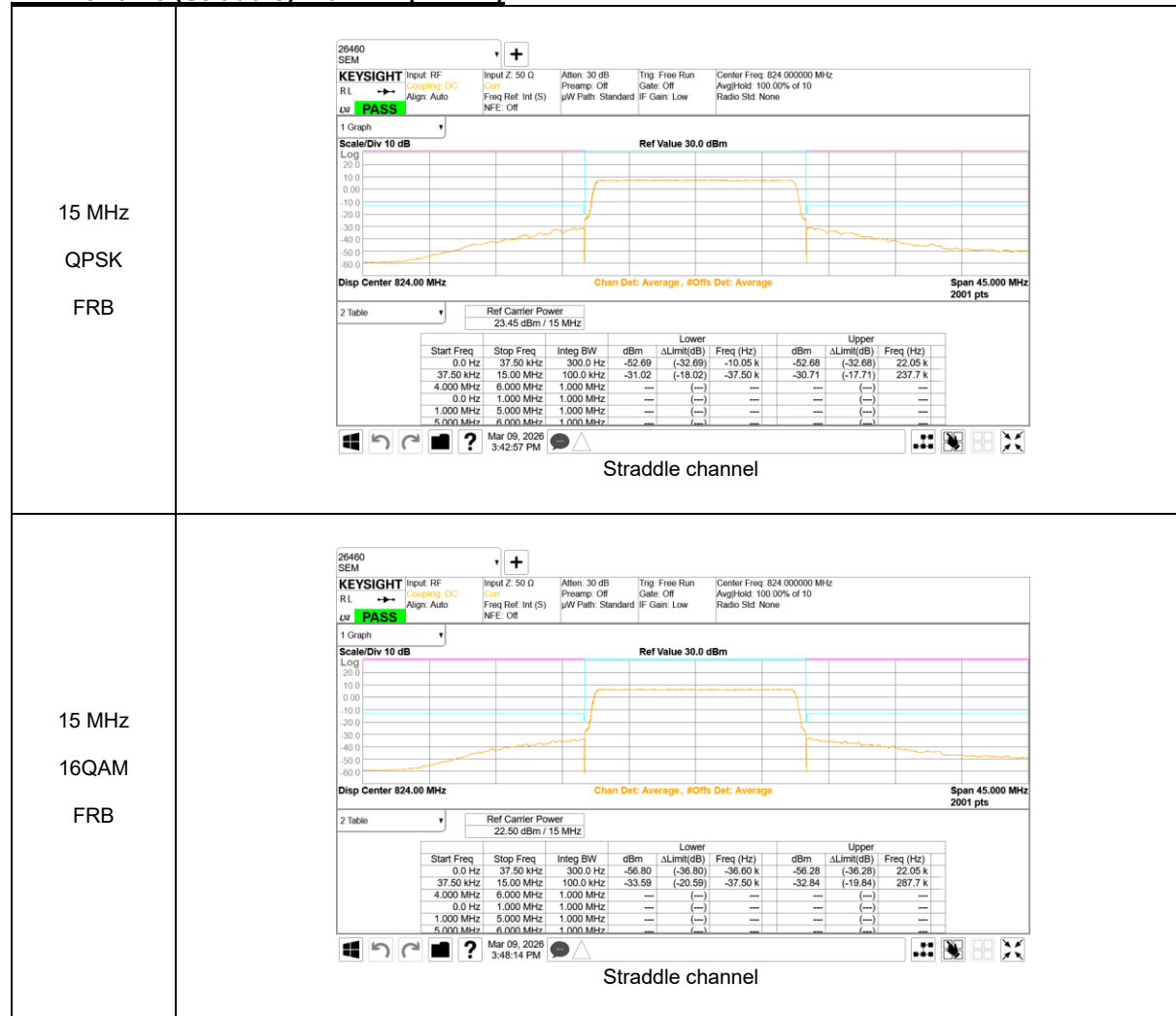


High channel

LTE Band 26 (Part 90) 1 RB (Worst Case) (ANT A)



LTE Band 26 (Straddle) Full RB (ANT A)



10 MHz

QPSK

FRB

26460
SEM

KEYSIGHT

Input RF
Coupling DC
Align: Auto

Input Z: 50 Ω
Corr
NFE: Off

Atten: 30 dB
Preamp: Off
µW Path: Standard
IF Gain: Low

Trig: Free Run
Gate: Off

Center Freq: 824.000000 MHz
Avg/Hold: 100.00% of 10
Radio Std: None

1 Graph

Scale/Div 10 dB
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0

Ref Value 30.0 dBm

Chan Det: Average, #Ofs Det: Average

Span 30.000 MHz
2001 pts

2 Table

Ref Carrier Power
23.49 dBm / 10 MHz

Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
0.0 Hz	37.50 kHz	300.0 Hz	-52.67	(-32.67)	-19.50 k	-52.17	(-32.17)	1.950 k
37.50 kHz	10.00 MHz	100.0 kHz	-30.01	(-17.01)	-37.50 k	-29.89	(-16.89)	37.50 k
4.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
0.0 Hz	1.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
1.000 MHz	5.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
5.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---

Mar 09, 2026
4:04:38 PM

Straddle channel

10 MHz

16QAM

FRB

26460
SEM

KEYSIGHT

Input RF
Coupling DC
Align: Auto

Input Z: 50 Ω
Corr
NFE: Off

Atten: 30 dB
Preamp: Off
µW Path: Standard
IF Gain: Low

Trig: Free Run
Gate: Off

Center Freq: 824.000000 MHz
Avg/Hold: 100.00% of 10
Radio Std: None

1 Graph

Scale/Div 10 dB
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0

Ref Value 30.0 dBm

Chan Det: Average, #Ofs Det: Average

Span 30.000 MHz
2001 pts

2 Table

Ref Carrier Power
22.51 dBm / 10 MHz

Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
0.0 Hz	37.50 kHz	300.0 Hz	-54.99	(-34.99)	-32.85 k	-54.32	(-34.32)	2.700 k
37.50 kHz	10.00 MHz	100.0 kHz	-31.89	(-18.89)	-37.50 k	-31.75	(-18.75)	37.50 k
4.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
0.0 Hz	1.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
1.000 MHz	5.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
5.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---

Mar 09, 2026
4:10:02 PM

Straddle channel

5 MHz

QPSK

FRB

26460
SEM

KEYSIGHT

Input RF
Coupling DC
Align: Auto

Input Z: 50 Ω
Corr
NFE: Off

Atten: 30 dB
Preamp: Off
 μ W Path: Standard
IF Gain: Low

Trig: Free Run
Gate: Off

Center Freq: 824.000000 MHz
Avg/Hold: 100.00% of 10
Radio Std: None

1 Graph

Scale/Div 10 dB
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0

Ref Value 30.0 dBm

Chan Det: Average, #Ofs Det: Average

Span 15.000 MHz
2001 pts

2 Table

Ref Carrier Power
23.47 dBm / 5 MHz

Start Freq	Stop Freq	Integ BW	dBm	Δ Limit(dB)	Freq (Hz)	dBm	Δ Limit(dB)	Freq (Hz)
0.0 Hz	37.50 kHz	300.0 Hz	-47.21	(-27.21)	-13.95 k	-46.95	(-26.95)	2.250 k
37.50 kHz	5.000 MHz	100.0 kHz	-24.87	(-11.87)	-37.50 k	-24.41	(-11.41)	37.50 k
4.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
0.0 Hz	1.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
1.000 MHz	5.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
5.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---

Mar 09, 2026
4:37:56 PM

Straddle channel

5 MHz

16QAM

FRB

26460
SEM

KEYSIGHT

Input RF
Coupling DC
Align: Auto

Input Z: 50 Ω
Corr
NFE: Off

Atten: 30 dB
Preamp: Off
 μ W Path: Standard
IF Gain: Low

Trig: Free Run
Gate: Off

Center Freq: 824.000000 MHz
Avg/Hold: 100.00% of 10
Radio Std: None

1 Graph

Scale/Div 10 dB
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0

Ref Value 30.0 dBm

Chan Det: Average, #Ofs Det: Average

Span 15.000 MHz
2001 pts

2 Table

Ref Carrier Power
22.49 dBm / 5 MHz

Start Freq	Stop Freq	Integ BW	dBm	Δ Limit(dB)	Freq (Hz)	dBm	Δ Limit(dB)	Freq (Hz)
0.0 Hz	37.50 kHz	300.0 Hz	-48.64	(-28.64)	-11.85 k	-47.95	(-27.95)	9.900 k
37.50 kHz	5.000 MHz	100.0 kHz	-25.32	(-12.32)	-37.50 k	-25.68	(-12.68)	37.50 k
4.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
0.0 Hz	1.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
1.000 MHz	5.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
5.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---

Mar 09, 2026
4:43:27 PM

Straddle channel

3 MHz

QPSK

FRB

26460
SEM

KEYSIGHT

Input: RF
RL: →
Align: Auto

Input Z: 50 Ω
Coupling: DC
NFE: Off

Atten: 30 dB
Preamp: Off
µW Path: Standard

Trig: Free Run
Gate: Off
IF Gain: Low

Center Freq: 824.000000 MHz
Avg/Hold: 100.00% of 10
Radio Std: None

1 Graph

Scale/Div 10 dB
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0

Ref Value 30.0 dBm

Chan Det: Average, #Ofs Det: Average

Span 9.0000 MHz
2001 pts

2 Table

Ref Carrier Power
23.57 dBm / 3 MHz

Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
0.0 Hz	37.50 kHz	300.0 Hz	-43.18	(-23.18)	-18.00 k	-43.81	(-23.81)	5.250 k
37.50 kHz	3.000 MHz	100.0 kHz	-21.57	(-8.57)	-37.50 k	-21.69	(-8.69)	37.50 k
4.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
0.0 Hz	1.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
1.000 MHz	5.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
5.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---

Mar 09, 2026
11:34:34 AM

Straddle channel

3 MHz

16QAM

FRB

26460
SEM

KEYSIGHT

Input: RF
RL: →
Align: Auto

Input Z: 50 Ω
Coupling: DC
NFE: Off

Atten: 30 dB
Preamp: Off
µW Path: Standard

Trig: Free Run
Gate: Off
IF Gain: Low

Center Freq: 824.000000 MHz
Avg/Hold: 100.00% of 10
Radio Std: None

1 Graph

Scale/Div 10 dB
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0

Ref Value 30.0 dBm

Chan Det: Average, #Ofs Det: Average

Span 9.0000 MHz
2001 pts

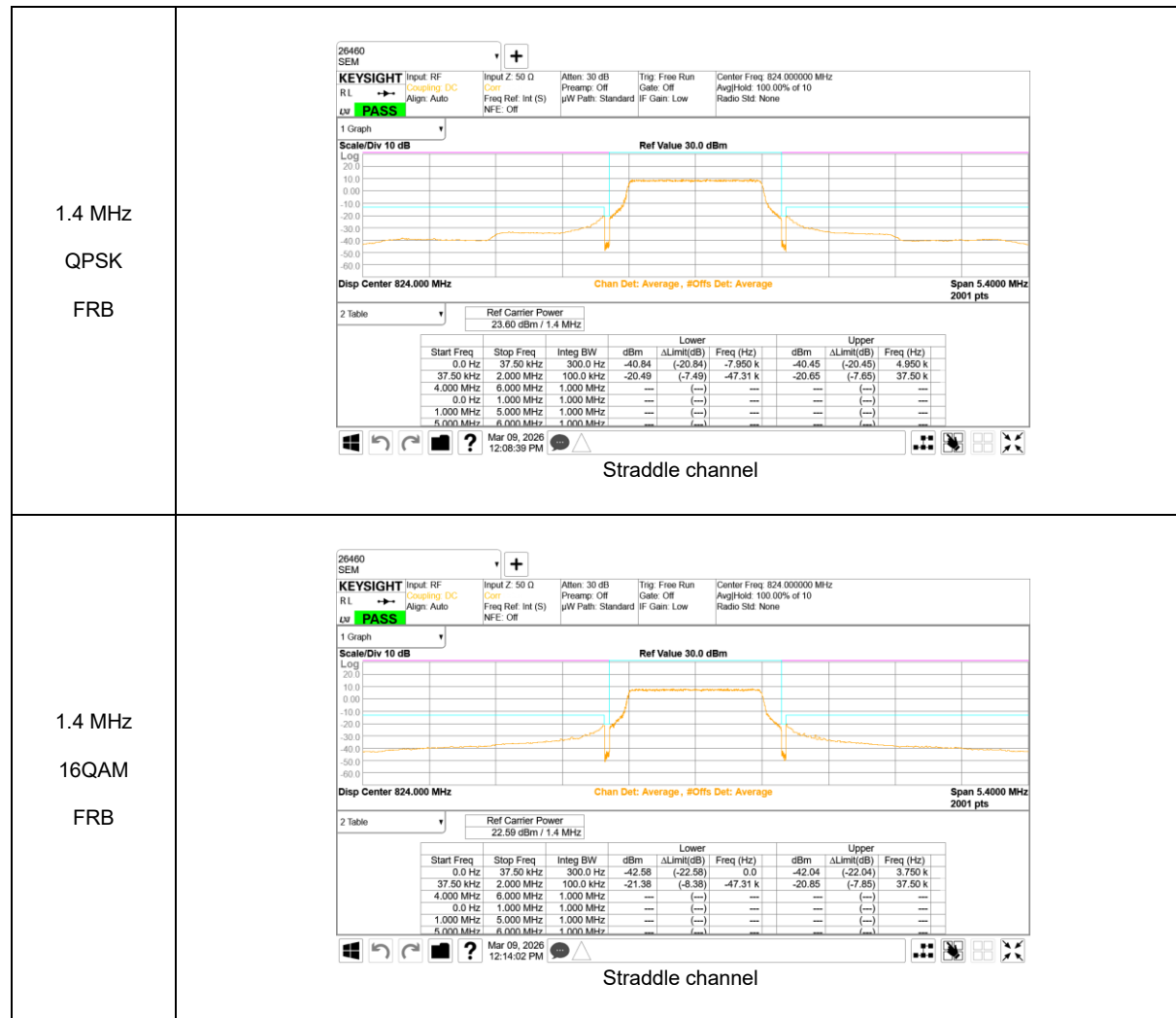
2 Table

Ref Carrier Power
22.66 dBm / 3 MHz

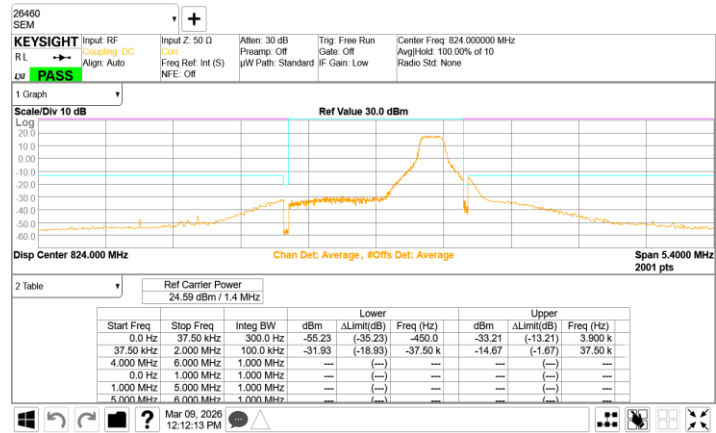
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
0.0 Hz	37.50 kHz	300.0 Hz	-43.25	(-23.25)	-3.900 k	-43.56	(-23.56)	5.700 k
37.50 kHz	3.000 MHz	100.0 kHz	-23.46	(-10.46)	-52.31 k	-23.40	(-10.40)	37.50 k
4.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
0.0 Hz	1.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
1.000 MHz	5.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
5.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---

Mar 09, 2026
11:40:04 AM

Straddle channel

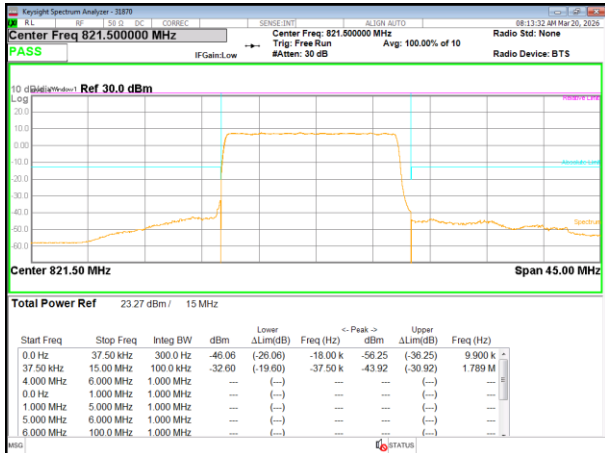
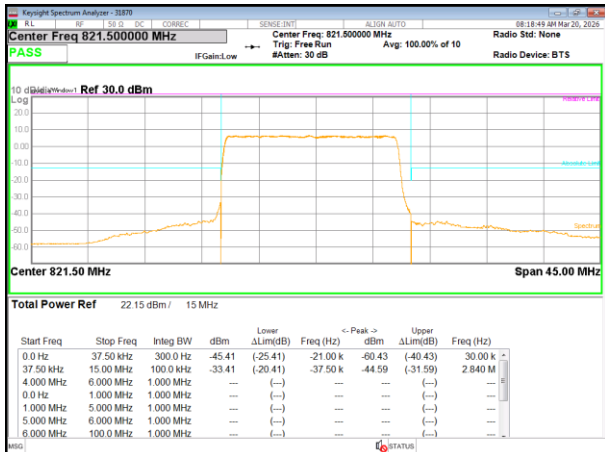


1.4 MHz
QPSK
1RB
offset 5



Straddle channel

NR Band n26 (Part 90) Full RB (ANT A)

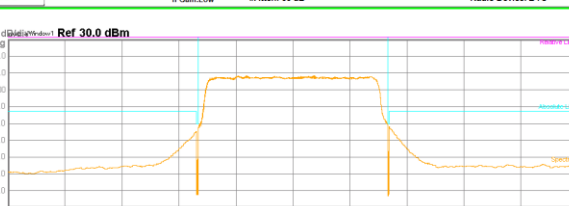
15 MHz QPSK FRB	 Center Freq 821.500000 MHz Total Power Ref 23.27 dBm / 15 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>37.50 kHz</td><td>300.0 Hz</td><td>-46.06</td><td>(-26.06)</td><td>-18.00 k</td><td>-56.25</td><td>(-36.25)</td><td>9.900 k</td></tr><tr><td>37.50 kHz</td><td>15.00 MHz</td><td>100.0 kHz</td><td>-32.60</td><td>(-19.60)</td><td>-37.50 k</td><td>-43.92</td><td>(-30.92)</td><td>1.789 M</td></tr><tr><td>4.000 MHz</td><td>6.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>0.0 Hz</td><td>1.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>1.000 MHz</td><td>5.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>5.000 MHz</td><td>6.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>6.000 MHz</td><td>100.0 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr></table> Mid channel	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	37.50 kHz	300.0 Hz	-46.06	(-26.06)	-18.00 k	-56.25	(-36.25)	9.900 k	37.50 kHz	15.00 MHz	100.0 kHz	-32.60	(-19.60)	-37.50 k	-43.92	(-30.92)	1.789 M	4.000 MHz	6.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---	0.0 Hz	1.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---	1.000 MHz	5.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---	5.000 MHz	6.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---	6.000 MHz	100.0 MHz	1.000 MHz	---	(---)	---	---	(---)	---
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																																	
0.0 Hz	37.50 kHz	300.0 Hz	-46.06	(-26.06)	-18.00 k	-56.25	(-36.25)	9.900 k																																																																	
37.50 kHz	15.00 MHz	100.0 kHz	-32.60	(-19.60)	-37.50 k	-43.92	(-30.92)	1.789 M																																																																	
4.000 MHz	6.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---																																																																	
0.0 Hz	1.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---																																																																	
1.000 MHz	5.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---																																																																	
5.000 MHz	6.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---																																																																	
6.000 MHz	100.0 MHz	1.000 MHz	---	(---)	---	---	(---)	---																																																																	
15 MHz 16QAM FRB	 Center Freq 821.500000 MHz Total Power Ref 22.15 dBm / 15 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>37.50 kHz</td><td>300.0 Hz</td><td>-45.41</td><td>(-25.41)</td><td>-21.00 k</td><td>-60.43</td><td>(-40.43)</td><td>30.00 k</td></tr><tr><td>37.50 kHz</td><td>15.00 MHz</td><td>100.0 kHz</td><td>-33.41</td><td>(-20.41)</td><td>-37.50 k</td><td>-44.59</td><td>(-31.59)</td><td>2.840 M</td></tr><tr><td>4.000 MHz</td><td>6.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>0.0 Hz</td><td>1.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>1.000 MHz</td><td>5.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>5.000 MHz</td><td>6.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>6.000 MHz</td><td>100.0 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr></table> Mid channel	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	37.50 kHz	300.0 Hz	-45.41	(-25.41)	-21.00 k	-60.43	(-40.43)	30.00 k	37.50 kHz	15.00 MHz	100.0 kHz	-33.41	(-20.41)	-37.50 k	-44.59	(-31.59)	2.840 M	4.000 MHz	6.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---	0.0 Hz	1.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---	1.000 MHz	5.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---	5.000 MHz	6.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---	6.000 MHz	100.0 MHz	1.000 MHz	---	(---)	---	---	(---)	---
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																																	
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4.000 MHz	6.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---																																																																	
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1.000 MHz	5.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---																																																																	
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6.000 MHz	100.0 MHz	1.000 MHz	---	(---)	---	---	(---)	---																																																																	

10 MHz QPSK FRB	Keyight Spectrum Analyzer - 33375 SENSE: TWT REF: 1.50 dB DC CORRECT ALGN: AUTO 68-27-52 AM Mar 20, 2025 Center Freq: 819.000000 MHz Center Freq: 819.000000 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low BitRate: 30 dB Radio Device: BTS 10 dB/Hz (Reference) Ref 30.0 dBm Log 30.0 20.0 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 30.00 MHz 10.00 MHz 0.00 MHz -10.00 MHz -20.00 MHz -30.00 MHz -40.00 MHz -50.00 MHz -60.00 MHz Center 819.00 MHz Span 30.00 MHz Total Power Ref 23.30 dBm / 10 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>← Peak →</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>37.50 kHz</td><td>300.0 Hz</td><td>-41.01</td><td>(-21.01)</td><td>-10.05 k</td><td>-51.38</td><td>(-31.38)</td><td>28.95 k</td></tr><tr><td>37.50 kHz</td><td>10.00 MHz</td><td>100.0 kHz</td><td>-27.65</td><td>(-14.65)</td><td>-37.50 k</td><td>-37.24</td><td>(-24.24)</td><td>37.50 k</td></tr><tr><td>4.000 MHz</td><td>6.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(--)</td><td>---</td><td>---</td><td>(--)</td><td>---</td></tr><tr><td>0.0 Hz</td><td>1.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(--)</td><td>---</td><td>---</td><td>(--)</td><td>---</td></tr><tr><td>1.000 MHz</td><td>5.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(--)</td><td>---</td><td>---</td><td>(--)</td><td>---</td></tr><tr><td>5.000 MHz</td><td>6.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(--)</td><td>---</td><td>---</td><td>(--)</td><td>---</td></tr><tr><td>6.000 MHz</td><td>100.0 MHz</td><td>1.000 MHz</td><td>---</td><td>(--)</td><td>---</td><td>---</td><td>(--)</td><td>---</td></tr></table> STATUS Mid channel	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	← Peak →	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	37.50 kHz	300.0 Hz	-41.01	(-21.01)	-10.05 k	-51.38	(-31.38)	28.95 k	37.50 kHz	10.00 MHz	100.0 kHz	-27.65	(-14.65)	-37.50 k	-37.24	(-24.24)	37.50 k	4.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---	0.0 Hz	1.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---	1.000 MHz	5.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---	5.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---	6.000 MHz	100.0 MHz	1.000 MHz	---	(--)	---	---	(--)	---
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	← Peak →	Upper ΔLim(dB)	Freq (Hz)																																																																	
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4.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---																																																																	
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6.000 MHz	100.0 MHz	1.000 MHz	---	(--)	---	---	(--)	---																																																																	
10 MHz 16QAM FRB	Keyight Spectrum Analyzer - 33375 SENSE: TWT REF: 1.50 dB DC CORRECT ALGN: AUTO 68-27-52 AM Mar 20, 2025 Center Freq: 819.000000 MHz Center Freq: 819.000000 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low BitRate: 30 dB Radio Device: BTS 10 dB/Hz (Reference) Ref 30.0 dBm Log 30.0 20.0 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 30.00 MHz 10.00 MHz 0.00 MHz -10.00 MHz -20.00 MHz -30.00 MHz -40.00 MHz -50.00 MHz -60.00 MHz Center 819.00 MHz Span 30.00 MHz Total Power Ref 22.23 dBm / 10 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>← Peak →</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>37.50 kHz</td><td>300.0 Hz</td><td>-43.57</td><td>(-23.57)</td><td>-9.000 k</td><td>-56.31</td><td>(-36.31)</td><td>17.85 k</td></tr><tr><td>37.50 kHz</td><td>10.00 MHz</td><td>100.0 kHz</td><td>-30.23</td><td>(-17.23)</td><td>-37.50 k</td><td>-38.97</td><td>(-25.97)</td><td>37.50 k</td></tr><tr><td>4.000 MHz</td><td>6.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(--)</td><td>---</td><td>---</td><td>(--)</td><td>---</td></tr><tr><td>0.0 Hz</td><td>1.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(--)</td><td>---</td><td>---</td><td>(--)</td><td>---</td></tr><tr><td>1.000 MHz</td><td>5.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(--)</td><td>---</td><td>---</td><td>(--)</td><td>---</td></tr><tr><td>5.000 MHz</td><td>6.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(--)</td><td>---</td><td>---</td><td>(--)</td><td>---</td></tr><tr><td>6.000 MHz</td><td>100.0 MHz</td><td>1.000 MHz</td><td>---</td><td>(--)</td><td>---</td><td>---</td><td>(--)</td><td>---</td></tr></table> STATUS Mid channel	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	← Peak →	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	37.50 kHz	300.0 Hz	-43.57	(-23.57)	-9.000 k	-56.31	(-36.31)	17.85 k	37.50 kHz	10.00 MHz	100.0 kHz	-30.23	(-17.23)	-37.50 k	-38.97	(-25.97)	37.50 k	4.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---	0.0 Hz	1.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---	1.000 MHz	5.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---	5.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---	6.000 MHz	100.0 MHz	1.000 MHz	---	(--)	---	---	(--)	---
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	← Peak →	Upper ΔLim(dB)	Freq (Hz)																																																																	
0.0 Hz	37.50 kHz	300.0 Hz	-43.57	(-23.57)	-9.000 k	-56.31	(-36.31)	17.85 k																																																																	
37.50 kHz	10.00 MHz	100.0 kHz	-30.23	(-17.23)	-37.50 k	-38.97	(-25.97)	37.50 k																																																																	
4.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---																																																																	
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6.000 MHz	100.0 MHz	1.000 MHz	---	(--)	---	---	(--)	---																																																																	

5 MHz
QPSK
FRB

Keysight Spectrum Analyzer - D3370

Center Freq: 816.500000 MHz
Span: 15.00 MHz
Total Power Ref: 23.36 dBm / 5 MHz



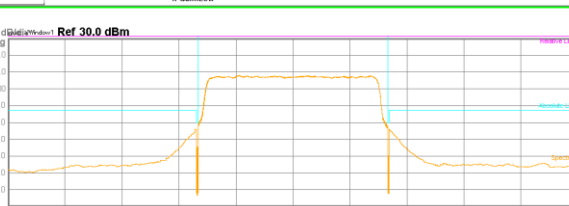
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	← Peak → dBm	Upper ΔLim(dB)	Freq (Hz)
0.0 Hz	37.50 kHz	300.0 Hz	-41.00	(-21.00)	-26.10 k	-36.38	(-16.38)	30.90 k
37.50 kHz	5.000 MHz	100.0 kHz	-24.68	(-11.68)	-37.50 k	-21.90	(-8.90)	37.50 k
4.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
0.0 Hz	1.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
1.000 MHz	5.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
5.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
6.000 MHz	100.0 MHz	1.000 MHz	---	(--)	---	---	(--)	---

Radio Device: BTS

Low channel

Keysight Spectrum Analyzer - D3370

Center Freq: 821.500000 MHz
Span: 15.00 MHz
Total Power Ref: 23.28 dBm / 5 MHz



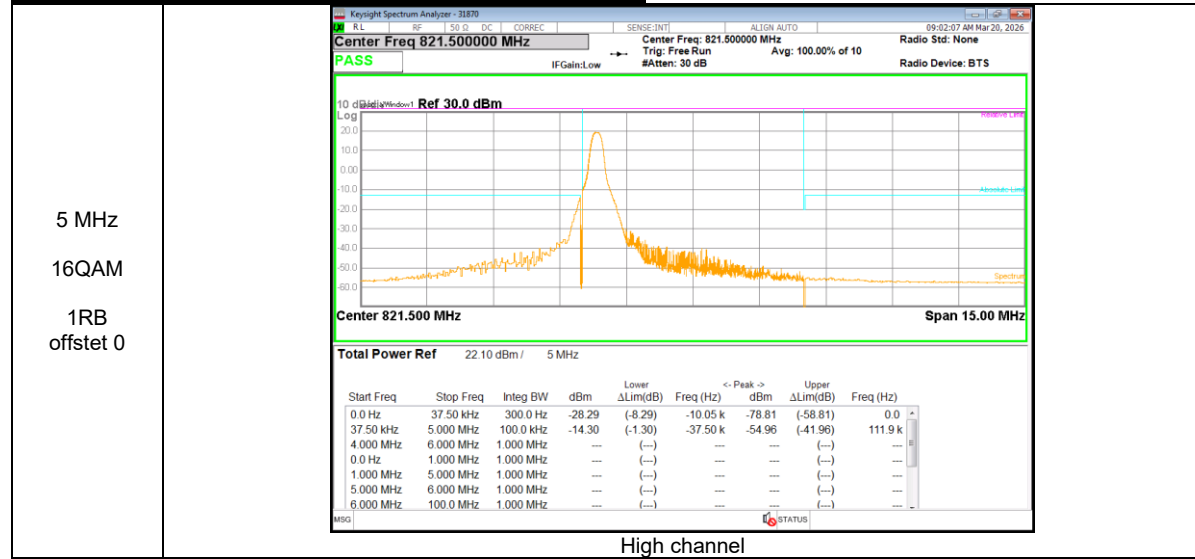
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	← Peak → dBm	Upper ΔLim(dB)	Freq (Hz)
0.0 Hz	37.50 kHz	300.0 Hz	-34.33	(-14.33)	-8.100 k	-37.79	(-17.79)	24.90 k
37.50 kHz	5.000 MHz	100.0 kHz	-23.85	(-10.85)	-62.31 k	-24.02	(-11.02)	37.50 k
4.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
0.0 Hz	1.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
1.000 MHz	5.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
5.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---
6.000 MHz	100.0 MHz	1.000 MHz	---	(--)	---	---	(--)	---

Radio Device: BTS

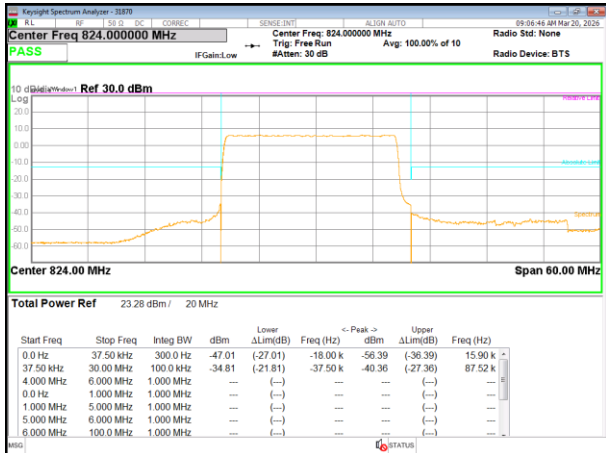
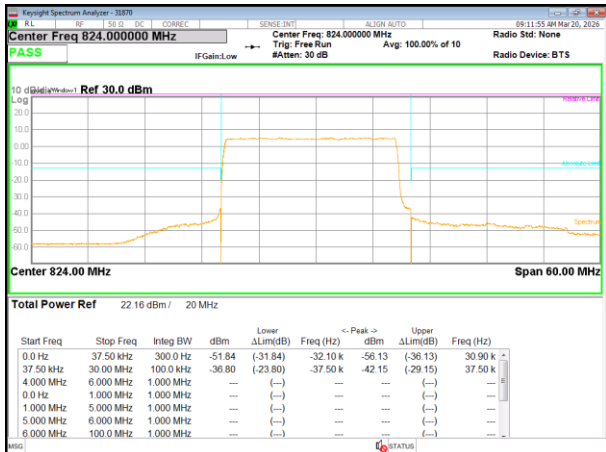
High channel



NR Band n26 (Part 90) 1 RB (Worst Case) (ANT A)



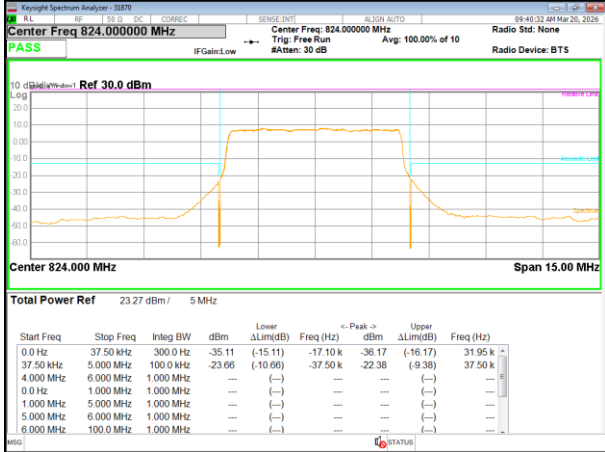
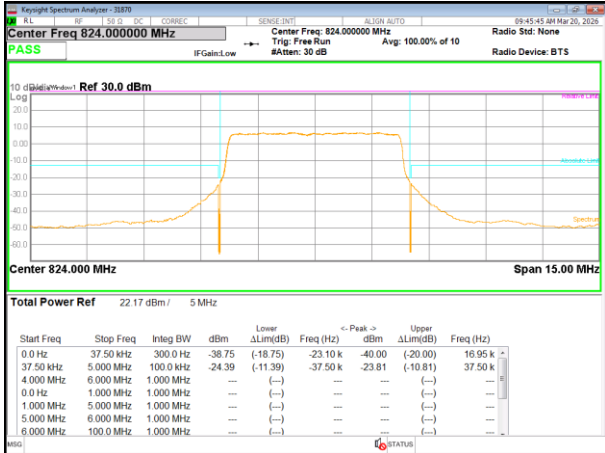
NR Band n26 (Straddle) Full RB (ANT A)

20 MHz QPSK FRB	 Center Freq 824.00 MHz Span 60.00 MHz Total Power Ref 23.28 dBm / 20 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>- Peak -> dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>37.50 kHz</td><td>300.0 Hz</td><td>-47.01</td><td>(-27.01)</td><td>-18.00 k</td><td>-56.39</td><td>(-36.39)</td><td>15.90 k</td></tr><tr><td>37.50 kHz</td><td>30.00 MHz</td><td>100.0 kHz</td><td>-34.81</td><td>(-21.81)</td><td>-37.50 k</td><td>-40.36</td><td>(-27.36)</td><td>87.52 k</td></tr><tr><td>4.000 MHz</td><td>6.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(--)</td><td>---</td><td>---</td><td>(--)</td><td>---</td></tr><tr><td>0.0 Hz</td><td>1.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(--)</td><td>---</td><td>---</td><td>(--)</td><td>---</td></tr><tr><td>1.000 MHz</td><td>5.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(--)</td><td>---</td><td>---</td><td>(--)</td><td>---</td></tr><tr><td>5.000 MHz</td><td>6.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(--)</td><td>---</td><td>---</td><td>(--)</td><td>---</td></tr><tr><td>6.000 MHz</td><td>100.0 MHz</td><td>1.000 MHz</td><td>---</td><td>(--)</td><td>---</td><td>---</td><td>(--)</td><td>---</td></tr></table> Straddle channel	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	- Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	37.50 kHz	300.0 Hz	-47.01	(-27.01)	-18.00 k	-56.39	(-36.39)	15.90 k	37.50 kHz	30.00 MHz	100.0 kHz	-34.81	(-21.81)	-37.50 k	-40.36	(-27.36)	87.52 k	4.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---	0.0 Hz	1.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---	1.000 MHz	5.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---	5.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---	6.000 MHz	100.0 MHz	1.000 MHz	---	(--)	---	---	(--)	---
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	- Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)																																																																	
0.0 Hz	37.50 kHz	300.0 Hz	-47.01	(-27.01)	-18.00 k	-56.39	(-36.39)	15.90 k																																																																	
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4.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---																																																																	
0.0 Hz	1.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---																																																																	
1.000 MHz	5.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---																																																																	
5.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---																																																																	
6.000 MHz	100.0 MHz	1.000 MHz	---	(--)	---	---	(--)	---																																																																	
20 MHz 16QAM FRB	 Center Freq 824.00 MHz Span 60.00 MHz Total Power Ref 22.16 dBm / 20 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>- Peak -> dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>37.50 kHz</td><td>300.0 Hz</td><td>-51.84</td><td>(-31.84)</td><td>-32.10 k</td><td>-56.13</td><td>(-36.13)</td><td>30.90 k</td></tr><tr><td>37.50 kHz</td><td>30.00 MHz</td><td>100.0 kHz</td><td>-36.80</td><td>(-23.80)</td><td>-37.50 k</td><td>-42.15</td><td>(-29.15)</td><td>37.50 k</td></tr><tr><td>4.000 MHz</td><td>6.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(--)</td><td>---</td><td>---</td><td>(--)</td><td>---</td></tr><tr><td>0.0 Hz</td><td>1.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(--)</td><td>---</td><td>---</td><td>(--)</td><td>---</td></tr><tr><td>1.000 MHz</td><td>5.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(--)</td><td>---</td><td>---</td><td>(--)</td><td>---</td></tr><tr><td>5.000 MHz</td><td>6.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(--)</td><td>---</td><td>---</td><td>(--)</td><td>---</td></tr><tr><td>6.000 MHz</td><td>100.0 MHz</td><td>1.000 MHz</td><td>---</td><td>(--)</td><td>---</td><td>---</td><td>(--)</td><td>---</td></tr></table> Straddle channel	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	- Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	37.50 kHz	300.0 Hz	-51.84	(-31.84)	-32.10 k	-56.13	(-36.13)	30.90 k	37.50 kHz	30.00 MHz	100.0 kHz	-36.80	(-23.80)	-37.50 k	-42.15	(-29.15)	37.50 k	4.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---	0.0 Hz	1.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---	1.000 MHz	5.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---	5.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---	6.000 MHz	100.0 MHz	1.000 MHz	---	(--)	---	---	(--)	---
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	- Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)																																																																	
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1.000 MHz	5.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---																																																																	
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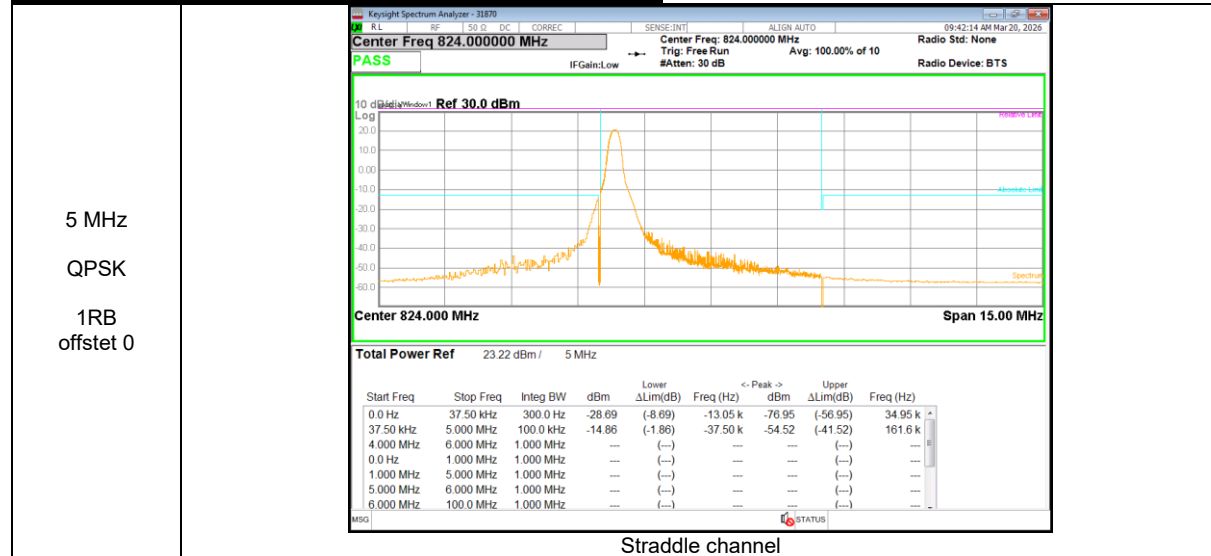
15 MHz QPSK FRB	KeySight Spectrum Analyzer - 33375 RF SENSE: 100T DC CORRECT ALGN: AUTO 69:17:54 AM Mar 20, 2025 Center Freq: 824.000000 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low Radio Device: BTS 10 dBm/Hz Ref 30.0 dBm Log 30.0 20.0 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 Center 824.00 MHz Span 45.00 MHz Total Power Ref 23.28 dBm / 15 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>37.50 kHz</td><td>300.0 Hz</td><td>-48.71</td><td>(-28.71)</td><td>-20.10 k</td><td>-57.68</td><td>(-37.68)</td><td>24.90 k</td></tr><tr><td>37.50 kHz</td><td>15.00 MHz</td><td>100.0 kHz</td><td>-33.25</td><td>(-20.25)</td><td>-37.50 k</td><td>-43.44</td><td>(-30.44)</td><td>37.50 k</td></tr><tr><td>4.000 MHz</td><td>6.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>0.0 Hz</td><td>1.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>1.000 MHz</td><td>5.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>5.000 MHz</td><td>6.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>6.000 MHz</td><td>100.0 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr></table> Straddle channel	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	37.50 kHz	300.0 Hz	-48.71	(-28.71)	-20.10 k	-57.68	(-37.68)	24.90 k	37.50 kHz	15.00 MHz	100.0 kHz	-33.25	(-20.25)	-37.50 k	-43.44	(-30.44)	37.50 k	4.000 MHz	6.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---	0.0 Hz	1.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---	1.000 MHz	5.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---	5.000 MHz	6.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---	6.000 MHz	100.0 MHz	1.000 MHz	---	(---)	---	---	(---)	---
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15 MHz 16QAM FRB	KeySight Spectrum Analyzer - 33375 RF SENSE: 100T DC CORRECT ALGN: AUTO 69:23:09 AM Mar 20, 2025 Center Freq: 824.000000 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low Radio Device: BTS 10 dBm/Hz Ref 30.0 dBm Log 30.0 20.0 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 Center 824.00 MHz Span 45.00 MHz Total Power Ref 22.12 dBm / 15 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>37.50 kHz</td><td>300.0 Hz</td><td>-49.60</td><td>(-29.60)</td><td>-10.05 k</td><td>-59.14</td><td>(-39.14)</td><td>36.00 k</td></tr><tr><td>37.50 kHz</td><td>15.00 MHz</td><td>100.0 kHz</td><td>-33.90</td><td>(-20.90)</td><td>-37.50 k</td><td>-44.94</td><td>(-31.94)</td><td>87.54 k</td></tr><tr><td>4.000 MHz</td><td>6.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>0.0 Hz</td><td>1.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>1.000 MHz</td><td>5.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>5.000 MHz</td><td>6.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>6.000 MHz</td><td>100.0 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr></table> Straddle channel	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	37.50 kHz	300.0 Hz	-49.60	(-29.60)	-10.05 k	-59.14	(-39.14)	36.00 k	37.50 kHz	15.00 MHz	100.0 kHz	-33.90	(-20.90)	-37.50 k	-44.94	(-31.94)	87.54 k	4.000 MHz	6.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---	0.0 Hz	1.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---	1.000 MHz	5.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---	5.000 MHz	6.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---	6.000 MHz	100.0 MHz	1.000 MHz	---	(---)	---	---	(---)	---
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10 MHz QPSK FRB	Keyight Spectrum Analyzer - 10.070 RF SENSE: 100T IF Gain: Low Center Freq: 824.000000 MHz Span: 30.00 MHz Radio Std: None Radio Device: BTS Trig: Free Run Avg: 100.00% of 10 dBm: 30.00 dB 10 dBm/Hz Ref 30.0 dBm Log 30.0 20.0 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 30.00 MHz Center 824.00 MHz Total Power Ref 23.27 dBm / 10 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>37.50 kHz</td><td>300.0 Hz</td><td>-42.38</td><td>(-22.38)</td><td>-8.100 k</td><td>-54.04</td><td>(-34.04)</td><td>900.0</td></tr><tr><td>37.50 kHz</td><td>10.00 MHz</td><td>100.0 kHz</td><td>-28.39</td><td>(-15.39)</td><td>-37.50 k</td><td>-37.14</td><td>(-24.14)</td><td>37.50 k</td></tr><tr><td>4.000 MHz</td><td>6.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(--)</td><td>---</td><td>---</td><td>(--)</td><td>---</td></tr><tr><td>0.0 Hz</td><td>1.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(--)</td><td>---</td><td>---</td><td>(--)</td><td>---</td></tr><tr><td>1.000 MHz</td><td>5.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(--)</td><td>---</td><td>---</td><td>(--)</td><td>---</td></tr><tr><td>5.000 MHz</td><td>6.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(--)</td><td>---</td><td>---</td><td>(--)</td><td>---</td></tr><tr><td>6.000 MHz</td><td>100.0 MHz</td><td>1.000 MHz</td><td>---</td><td>(--)</td><td>---</td><td>---</td><td>(--)</td><td>---</td></tr></tbody></table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	37.50 kHz	300.0 Hz	-42.38	(-22.38)	-8.100 k	-54.04	(-34.04)	900.0	37.50 kHz	10.00 MHz	100.0 kHz	-28.39	(-15.39)	-37.50 k	-37.14	(-24.14)	37.50 k	4.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---	0.0 Hz	1.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---	1.000 MHz	5.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---	5.000 MHz	6.000 MHz	1.000 MHz	---	(--)	---	---	(--)	---	6.000 MHz	100.0 MHz	1.000 MHz	---	(--)	---	---	(--)	---
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5 MHz QPSK FRB	 Straddle channel
5 MHz 16QAM FRB	 Straddle channel

NR Band n26 (Straddle) 1 RB (Worst Case) (ANT A)



8.5. CONDUCTED SPURIOUS EMISSIONS

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §90.543 and §90.691.

LIMITS

§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.

§90.543:

(e) For operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the 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, in accordance with the following:

(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.

§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.

(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. (NOTE : Use 100kHz reference bandwidth)

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v03r01

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

- a) Set the RBW = 100 kHz for emission below 1 GHz
(Tests were performed 1MHz [Worst case], to sweep 1 time for all frequency range)
- b) Set VBW $\geq 3 \times$ RBW;
- c) Set span ≥ 1.5 times the OBW;
- d) Sweep time = auto couple;
- e) Detector = rms;
- f) Ensure that the number of measurement points = Max (40001);
- g) Trace mode = average;
- h) Add duty cycle correction factor 9 dB(GSM only);

NOTE1

GSM : It was tested at GPRS as worst case (the highest output power and density).

UMTS: It was tested at REL 99 as worst case (the highest output power and density).

LTE: It was tested at 1RB QPSK as worst case (the highest output power and density).

5G NR: All Waveforms (CP-OFDM vs DFT-s_OFDM) and modulations ($\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

NOTE2

Please refer to section 5.4 for bandwidth and RB setting about LTE, 5G NR bands.

RESULTS

See the following pages.

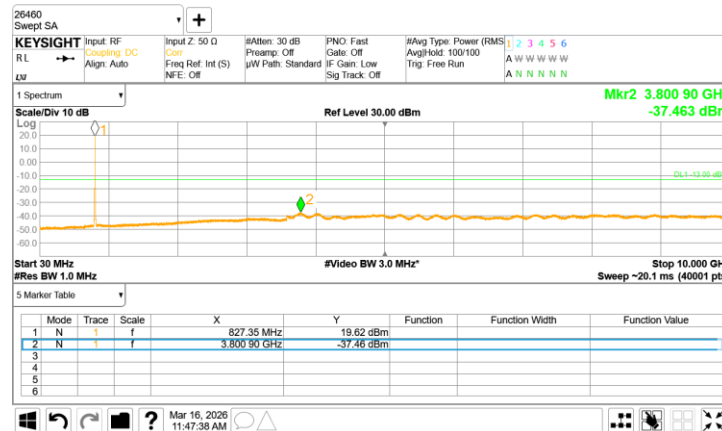
8.5.1. OUT OF BAND EMISSIONS RESULT

GSM 850 (ANT A)

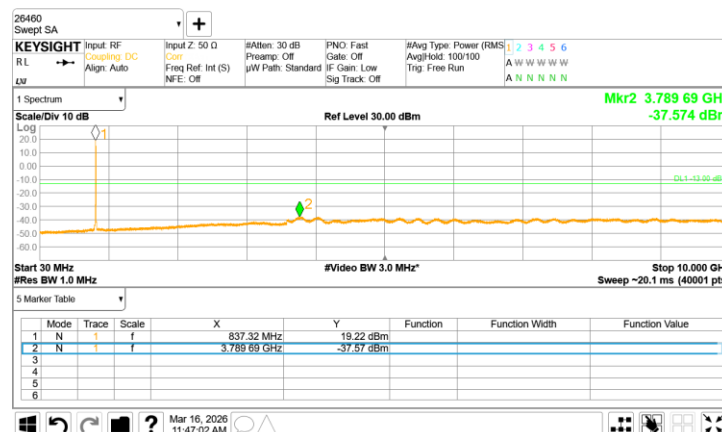


WCDMA Band 5 (ANT A)

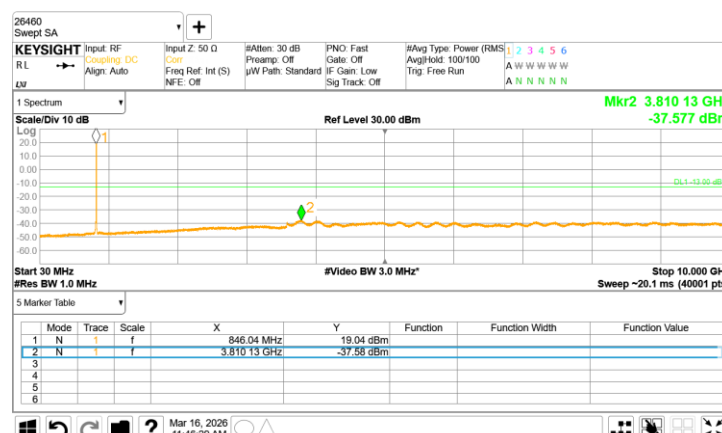
REL99



Low channel



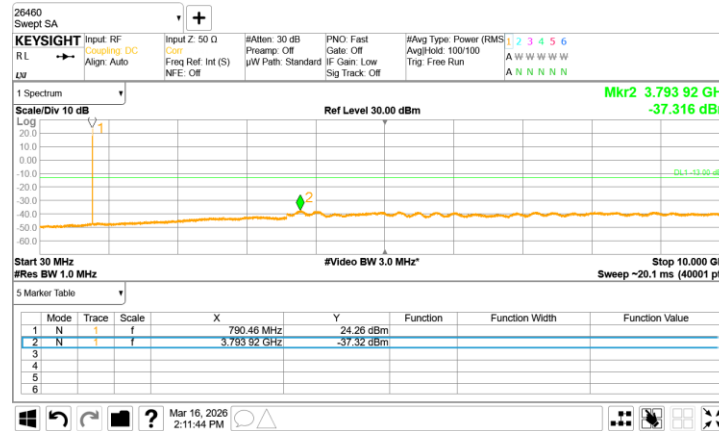
Mid channel



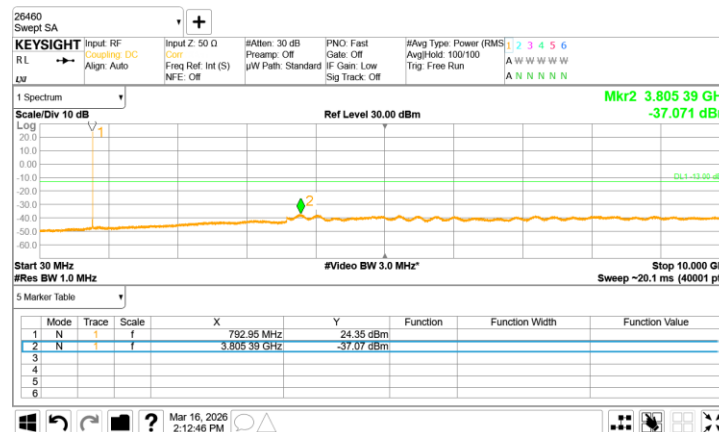
High channel

LTE Band 14 (ANT A)

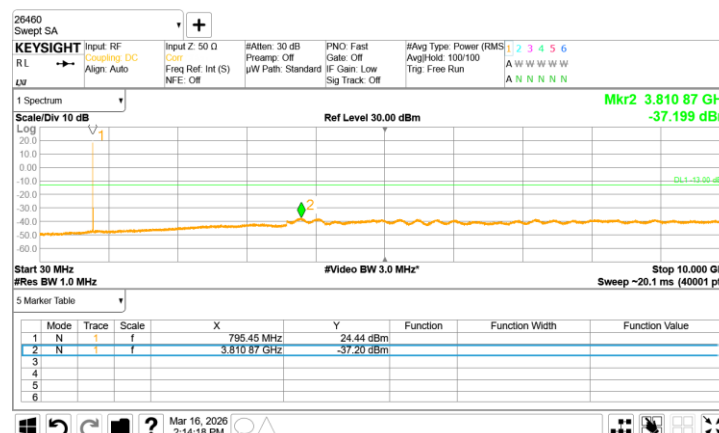
5 MHz QPSK



Low channel



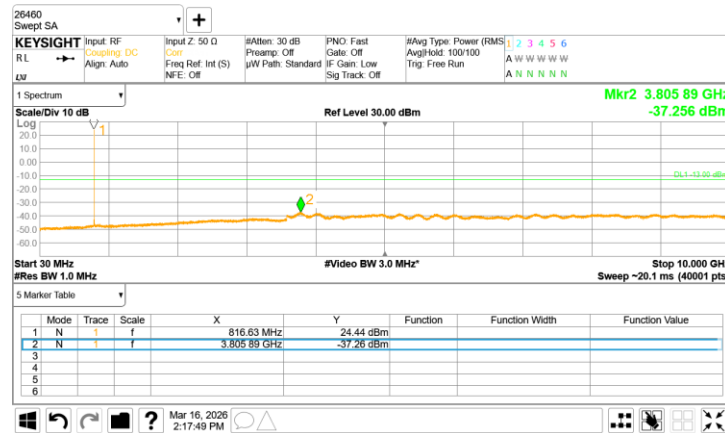
Mid channel



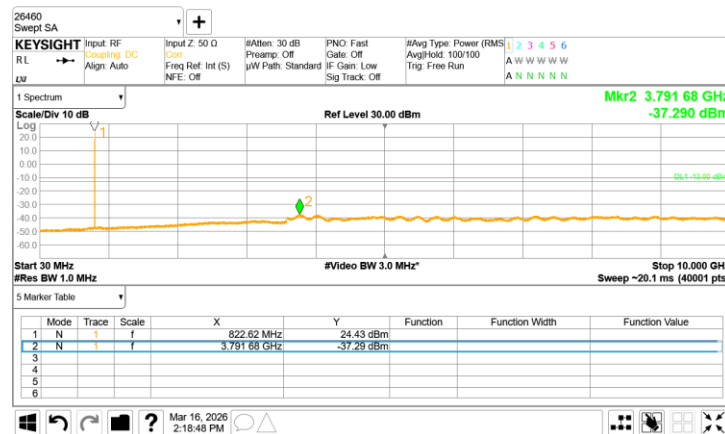
High channel

LTE Band 26 (Part 90) (ANT A)

3 MHz QPSK



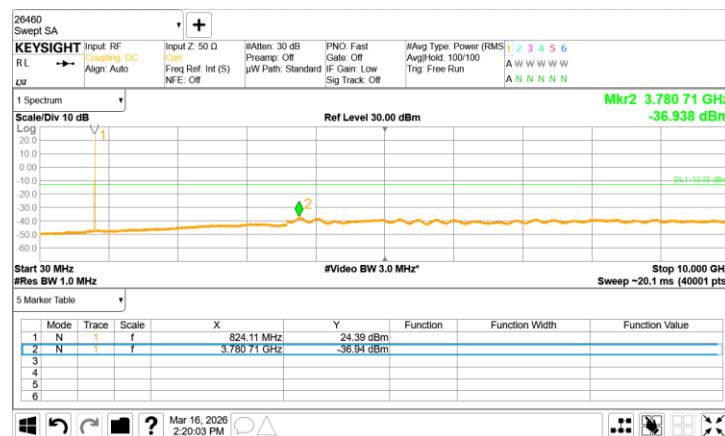
Low channel



Mid channel

LTE Band 26 (Straddle) (ANT A)

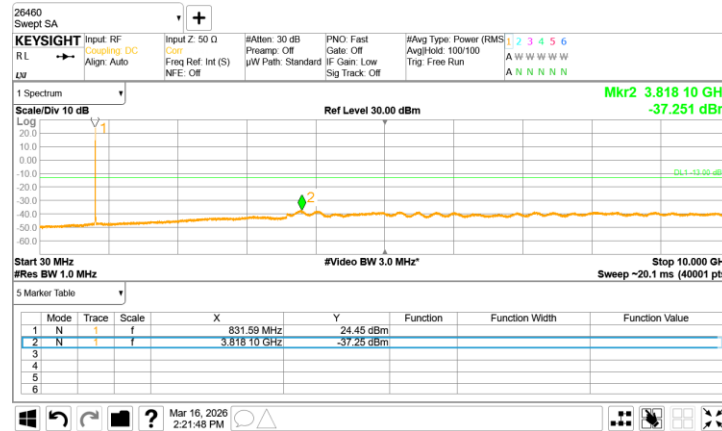
10 MHz QPSK



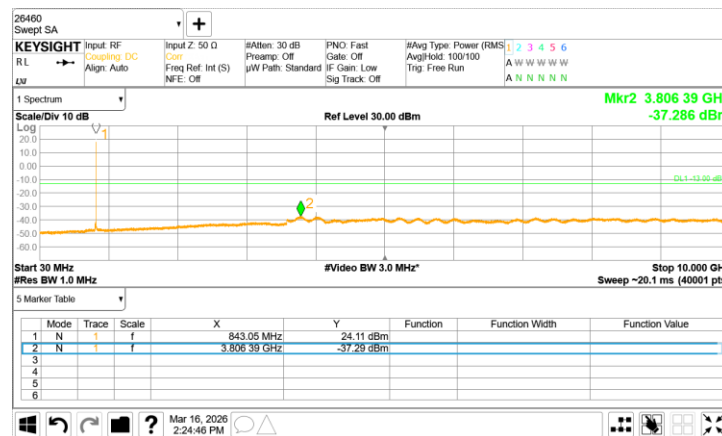
Straddle channel

LTE Band 26 (Part 22) (ANT A)

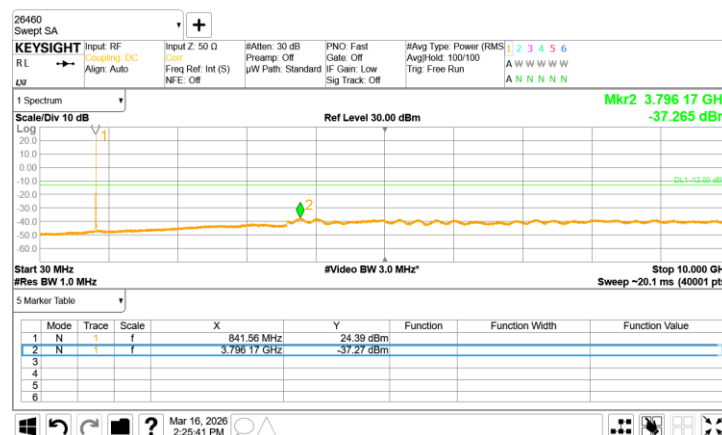
15 MHz QPSK



Low channel



Mid channel



High channel

NR Band n14 (ANT A)

