

FCC ID: 2A64B-DEX99
IC: 28593- DEX99

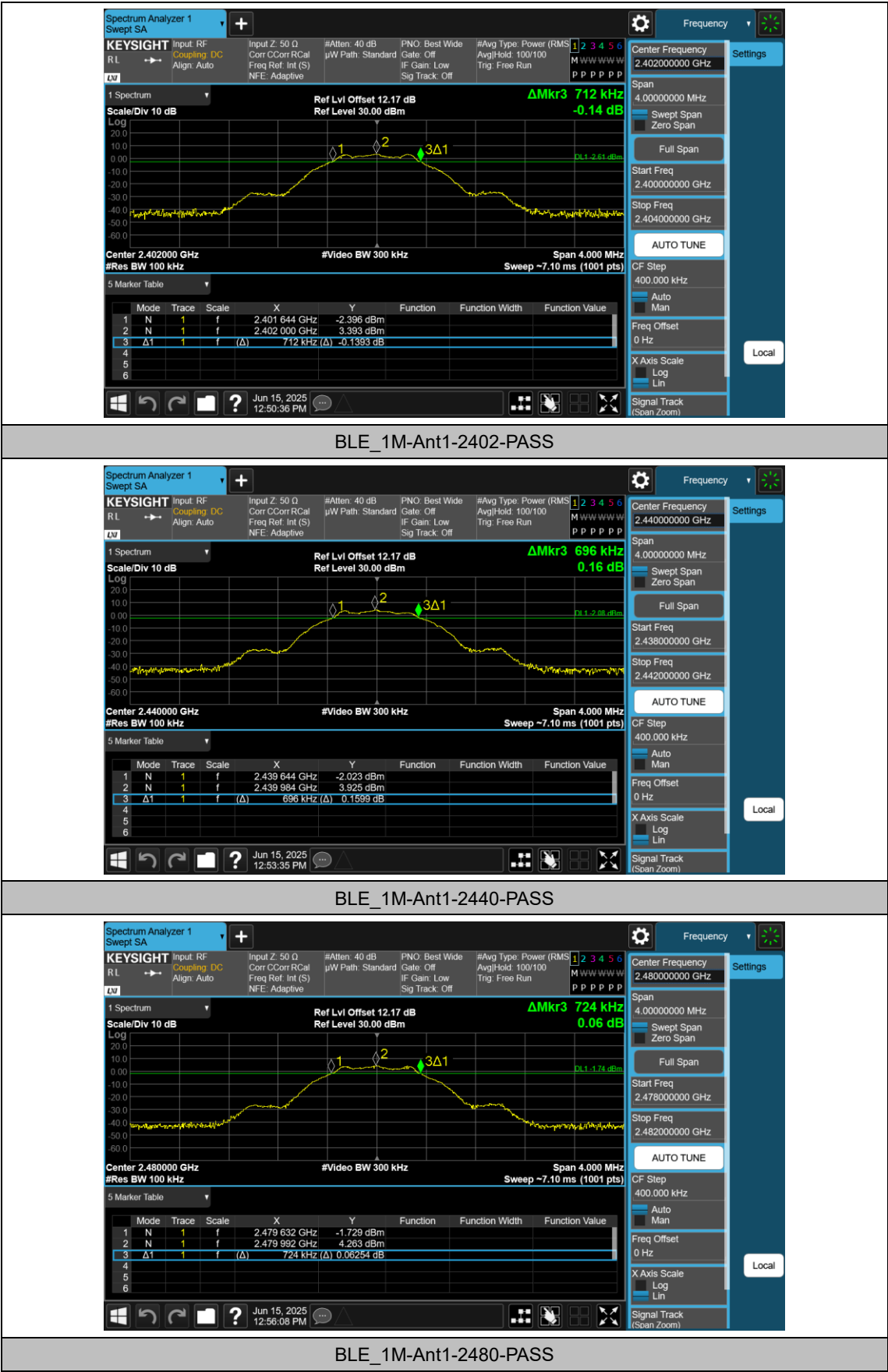
Appendix A of 2506B0615SHA-001

DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.712	2401.644	2402.356	0.5	PASS
BLE_1M	Ant1	2440	0.696	2439.644	2440.340	0.5	PASS
BLE_1M	Ant1	2480	0.724	2479.632	2480.356	0.5	PASS

Test Graphs



Spectrum Analyzer 1

+

KEYSIGHT

Input RF: Coupling DC

Input Z: 50 Ω

#Atten: 40 dB

PNO: Best Wide

#Avg Type: Power (RMS)

1 2 3 4 5 6

RL

Align: Auto

Corr C: Corr R: Cal

μ W Path: Standard

Gate: Off

Avg/Hold: 100/100

M W W W W W

NFE: Adaptive

Freq Ref: Int (S)

IF Gain: Low

Trig: Free Run

P P P P P P

1 Spectrum

Scale/Div 10 dB

Log

Ref Lvl Offset 12.17 dB

Ref Level 30.00 dBm

Δ Mkr3 696 kHz

0.16 dB

2.440000 GHz

#Video BW 300 kHz

Span 4.000 MHz

#Res BW 100 kHz

Sweep ~7.10 ms (1001 pts)

5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.439 644 GHz	-2.023 dBm			
2	N	1	f	2.439 984 GHz	3.925 dBm			
3	Δ 1	1	f (Δ)	696 kHz (Δ)	0.1599 dB			
4								
5								
6								

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Frequency

Settings

Center Frequency 2.440000000 GHz

Span 4.00000000 MHz

Sweep Span Zero Span

Full Span

Start Freq 2.438000000 GHz

Stop Freq 2.442000000 GHz

AUTO TUNE

CF Step 400.000 kHz

Auto Man

Freq Offset 0 Hz

X Axis Scale Log Lin

Signal Track (Span Zoom)

Local

BLE_1M-Ant1-2440-PASS

Spectrum Analyzer 1

+

KEYSIGHT

Input RF: Coupling DC

Input Z: 50 Ω

#Atten: 40 dB

PNO: Best Wide

#Avg Type: Power (RMS)

1 2 3 4 5 6

RL

Align: Auto

Corr C: Corr R: Cal

μ W Path: Standard

Gate: Off

Avg/Hold: 100/100

M W W W W W

NFE: Adaptive

Freq Ref: Int (S)

IF Gain: Low

Trig: Free Run

P P P P P P

1 Spectrum

Scale/Div 10 dB

Log

Ref Lvl Offset 12.17 dB

Ref Level 30.00 dBm

Δ Mkr3 724 kHz

0.06 dB

2.480000 GHz

#Video BW 300 kHz

Span 4.000 MHz

#Res BW 100 kHz

Sweep ~7.10 ms (1001 pts)

5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.479 632 GHz	-1.729 dBm			
2	N	1	f	2.479 992 GHz	4.263 dBm			
3	Δ 1	1	f (Δ)	724 kHz (Δ)	0.06254 dB			
4								
5								
6								

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Frequency

Settings

Center Frequency 2.480000000 GHz

Span 4.00000000 MHz

Sweep Span Zero Span

Full Span

Start Freq 2.478000000 GHz

Stop Freq 2.482000000 GHz

AUTO TUNE

CF Step 400.000 kHz

Auto Man

Freq Offset 0 Hz

X Axis Scale Log Lin

Signal Track (Span Zoom)

Local

BLE_1M-Ant1-2480-PASS

FCC ID:2A64B-DEX99

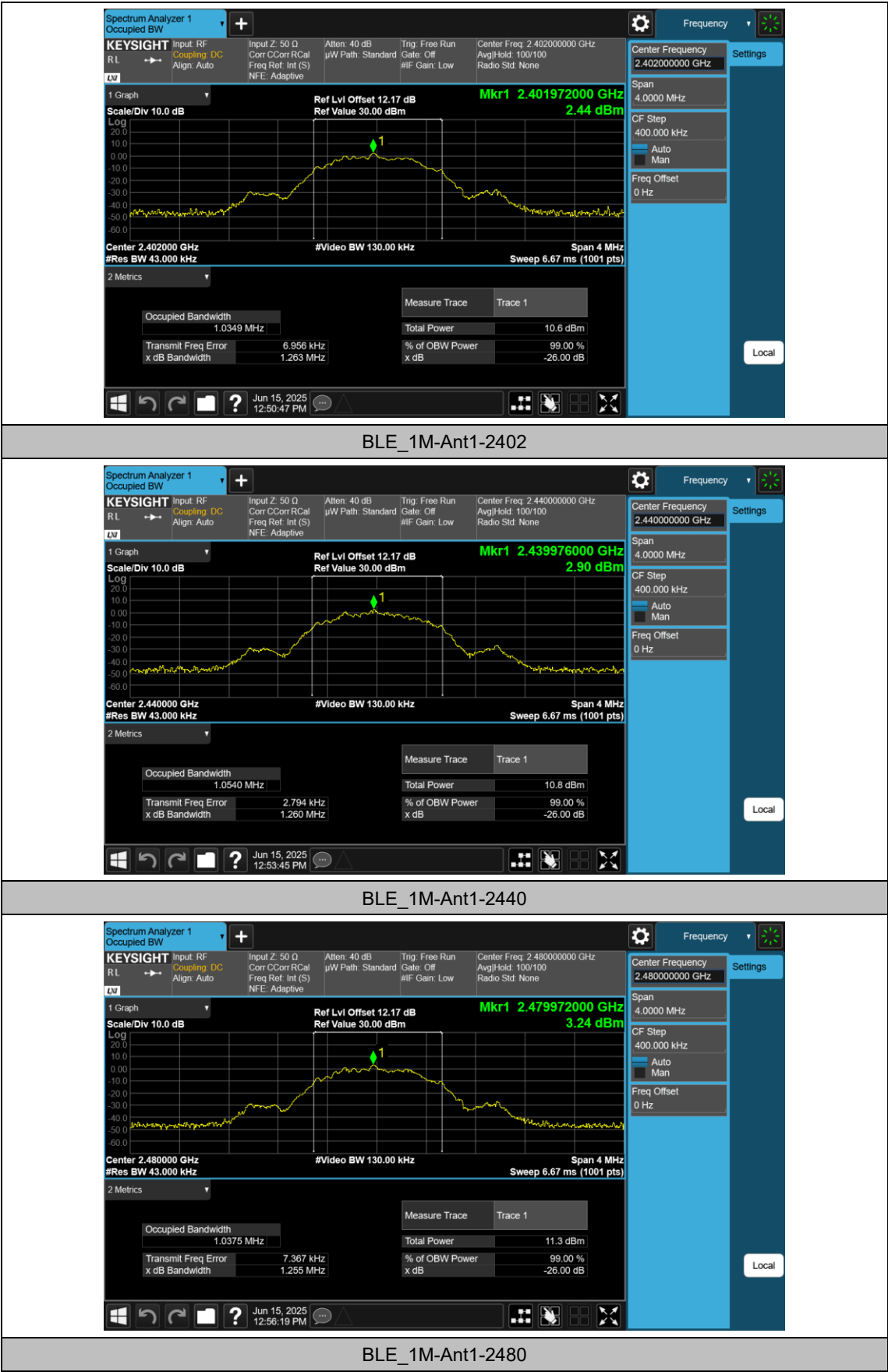
IC:28593- DEX99

Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0349	2401.4895	2402.5244	---	---
BLE_1M	Ant1	2440	1.0540	2439.4758	2440.5298	---	---
BLE_1M	Ant1	2480	1.0375	2479.4886	2480.5261	---	---

Test Graphs

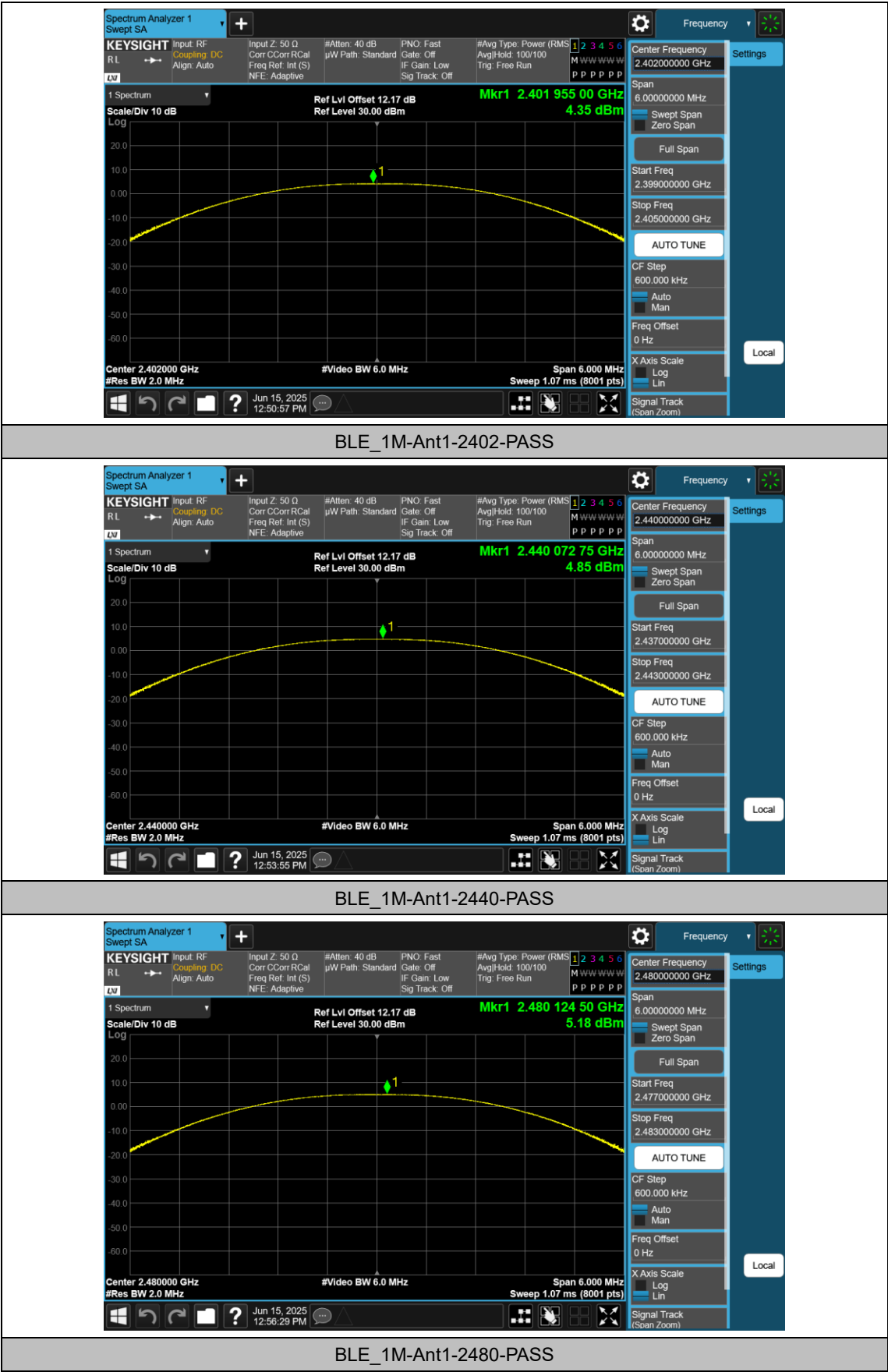


Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	4.35	≤30	5.15	≤36	PASS
BLE_1M	Ant1	2440	4.85	≤30	5.65	≤36	PASS
BLE_1M	Ant1	2480	5.18	≤30	5.98	≤36	PASS

Test Graphs Peak



1 Spectrum

Scale/Div 10 dB

Log

Ref Lvl Offset 12.17 dB

Ref Level 30.00 dBm

Mkr1 2.401955 00 GHz

4.35 dBm

Center 2.402000 GHz

#Res BW 2.0 MHz

#Video BW 6.0 MHz

Span 6.000 MHz

Sweep 1.07 ms (8001 pts)

Jun 15, 2025 12:50:57 PM

BLE_1M-Ant1-2402-PASS

Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr C: Corr

R: RCal

Freq Ref: Int (S)

NFE: Adaptive

#Atten: 40 dB

μ W Path: Standard

PNO: Fast

Gate: Off

IF Gain: Low

Sig Track: Off

#Avg Type: Power (RMS)

Avg/Hold: 100/100

Trig: Free Run

1 2 3 4 5 6

M W W W W W

P P P P P P

Center Frequency

2.440000000 GHz

Span

6.000000000 MHz

Sweep Span

Zero Span

Full Span

Start Freq

2.437000000 GHz

Stop Freq

2.443000000 GHz

AUTO TUNE

CF Step

600.000 kHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Span Zoom)

Local

1 Spectrum

Scale/Div 10 dB

Log

Ref Lvl Offset 12.17 dB

Ref Level 30.00 dBm

Mkr1 2.440072 75 GHz

4.85 dBm

Center 2.440000 GHz

#Res BW 2.0 MHz

#Video BW 6.0 MHz

Span 6.000 MHz

Sweep 1.07 ms (8001 pts)

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BLE_1M-Ant1-2440-PASS

Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr C: Corr

R: RCal

Freq Ref: Int (S)

NFE: Adaptive

#Atten: 40 dB

μ W Path: Standard

PNO: Fast

Gate: Off

IF Gain: Low

Sig Track: Off

#Avg Type: Power (RMS)

Avg/Hold: 100/100

Trig: Free Run

1 2 3 4 5 6

M W W W W W

P P P P P P

Center Frequency

2.480000000 GHz

Span

6.000000000 MHz

Sweep Span

Zero Span

Full Span

Start Freq

2.477000000 GHz

Stop Freq

2.483000000 GHz

AUTO TUNE

CF Step

600.000 kHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Span Zoom)

Local

1 Spectrum

Scale/Div 10 dB

Log

Ref Lvl Offset 12.17 dB

Ref Level 30.00 dBm

Mkr1 2.480124 50 GHz

5.18 dBm

Center 2.480000 GHz

#Res BW 2.0 MHz

#Video BW 6.0 MHz

Span 6.000 MHz

Sweep 1.07 ms (8001 pts)

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BLE_1M-Ant1-2480-PASS

FCC ID:2A64B-DEX99

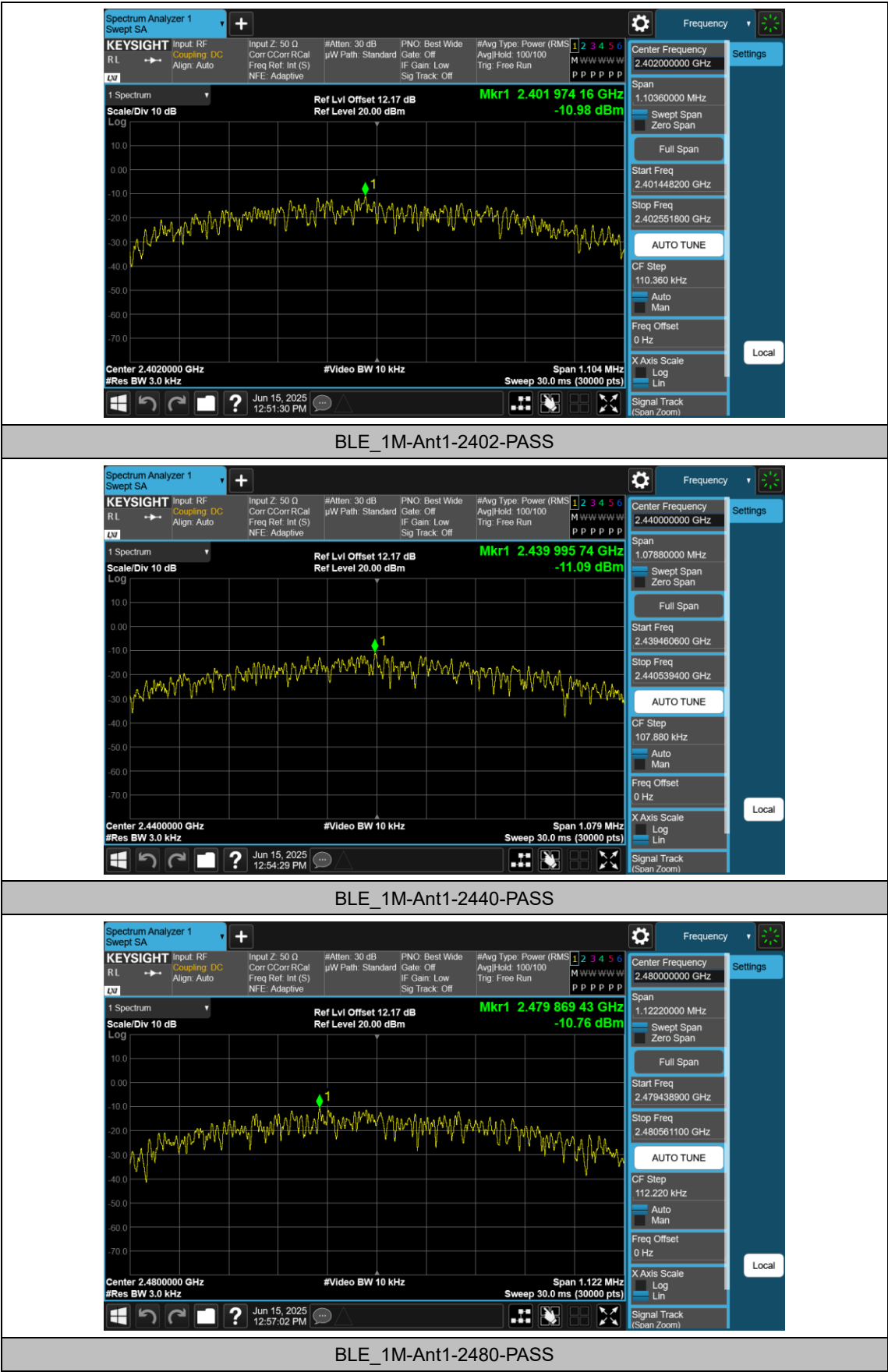
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Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-10.98	≤8.00	PASS
BLE_1M	Ant1	2440	-11.09	≤8.00	PASS
BLE_1M	Ant1	2480	-10.76	≤8.00	PASS

Test Graphs



Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.52	-49.52	≤-16.48	PASS
BLE_1M	Ant1	High	2480	3.82	-48.48	≤-16.18	PASS

Test Graphs



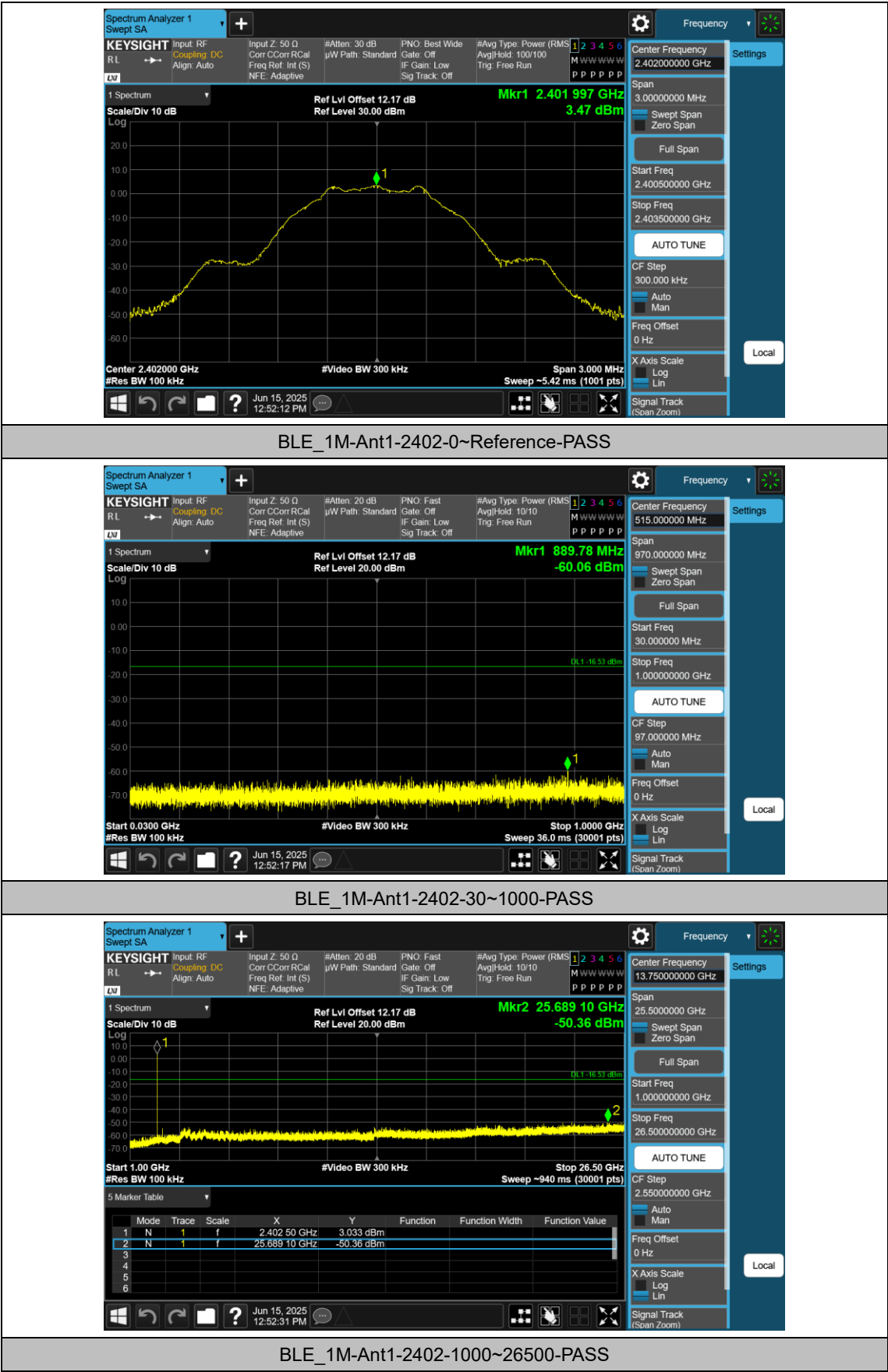
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IC: 28593- DEX99

Conducted Spurious Emission

Test Result

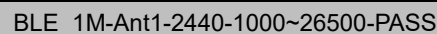
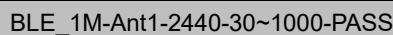
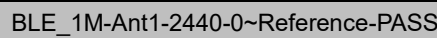
TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	3.47	3.47	---	PASS
BLE_1M	Ant1	2402	30~1000	3.47	-60.06	≤-16.53	PASS
BLE_1M	Ant1	2402	1000~26500	3.47	-50.36	≤-16.53	PASS
BLE_1M	Ant1	2440	0~Reference	3.85	3.85	---	PASS
BLE_1M	Ant1	2440	30~1000	3.85	-60.5	≤-16.15	PASS
BLE_1M	Ant1	2440	1000~26500	3.85	-49.94	≤-16.15	PASS
BLE_1M	Ant1	2480	0~Reference	4.31	4.31	---	PASS
BLE_1M	Ant1	2480	30~1000	4.31	-61.1	≤-15.69	PASS
BLE_1M	Ant1	2480	1000~26500	4.31	-48.96	≤-15.69	PASS

Test Graphs



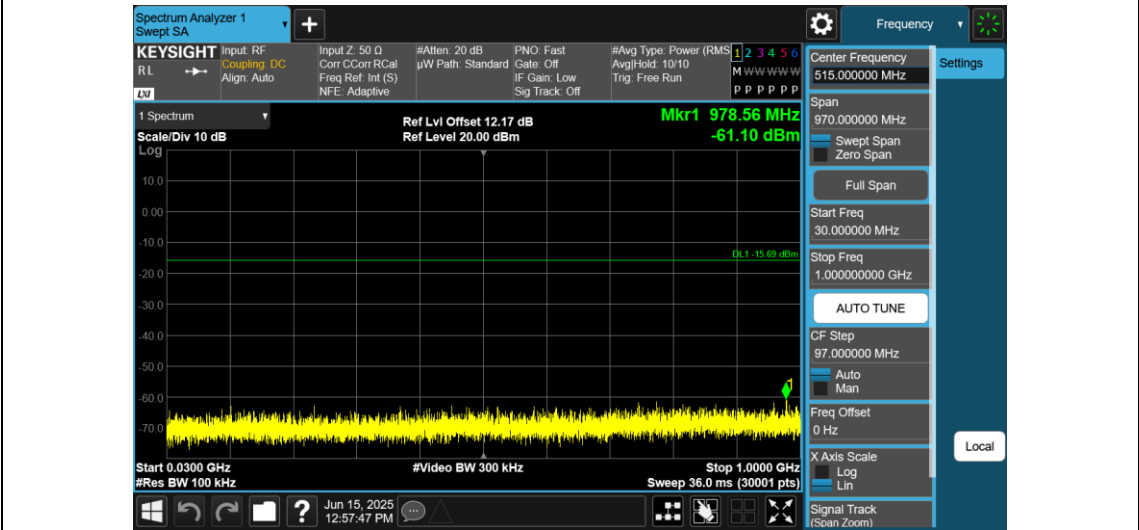
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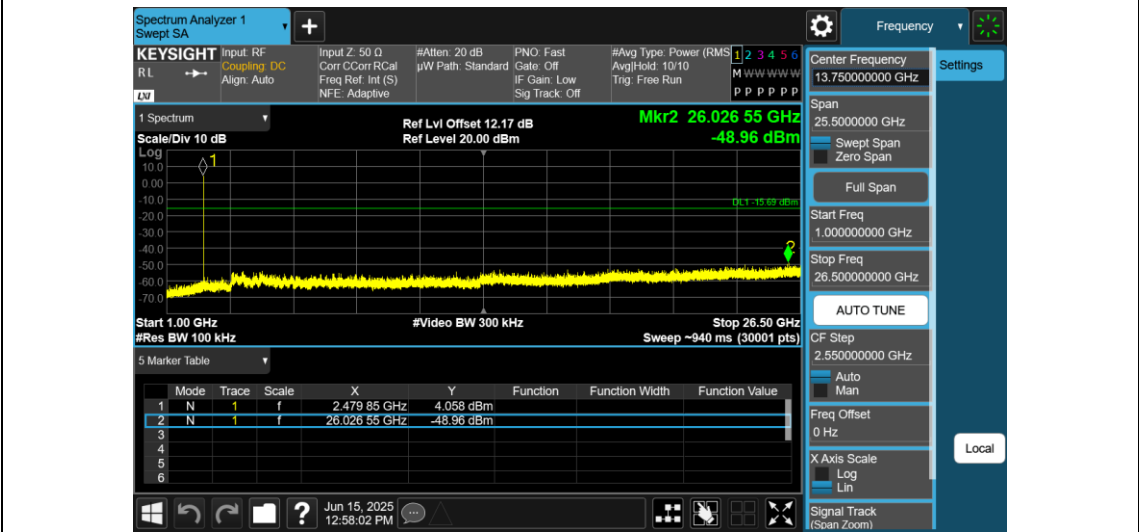




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS