

• **n38A + LTE Band 38:**

A preliminary scan determined the worst case:

1) n38A (Module NAD2):

n38A: Pi/2 BPSK, BW=20 MHz, SCS=15 kHz, RB=1, Offset=0.

2) LTE Band 38 (Module NAD1):

38: QPSK, BW=5 MHz, RB=1, Offset=0.

The following results are the ones of the worst case.

- LOW CHANNEL:

Frequency range 30 MHz - 1 GHz:

No spurious frequencies at less than 20 dB below the limit.

Frequency range 1 - 26 GHz:

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (GHz)	E.I.R.P (dBm)	Polarization	Detector	Measurement Uncertainty (dB)
5.18075	-40	V	RMS	<± 5.13
7.77125	-32.2	V	RMS	<± 5.13

Frequency range 2490.5 - 2496 MHz:

No spurious frequencies at less than 20 dB below the limit.

- MIDDLE CHANNEL:

Frequency range 30 MHz - 1 GHz:

No spurious frequencies at less than 20 dB below the limit.

Frequency range 1 - 26 GHz:

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (GHz)	E.I.R.P (dBm)	Polarization	Detector	Measurement Uncertainty (dB)
5.21125	-41.03	V	RMS	<± 5.13
7.81625	-32.9	V	RMS	<± 5.13

Frequency range 2490.5 - 2496 MHz:

No spurious frequencies at less than 20 dB below the limit.

- HIGH CHANNEL:

Frequency range 30 MHz - 1 GHz:

No spurious frequencies at less than 20 dB below the limit.

Frequency range 1 - 26 GHz:

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (GHz)	E.I.R.P (dBm)	Polarization	Detector	Measurement Uncertainty (dB)
5.17575	-42.36	V	RMS	<± 5.13
7.76375	-33.49	V	RMS	<± 5.13

Frequency range 2490.5 - 2496 MHz:

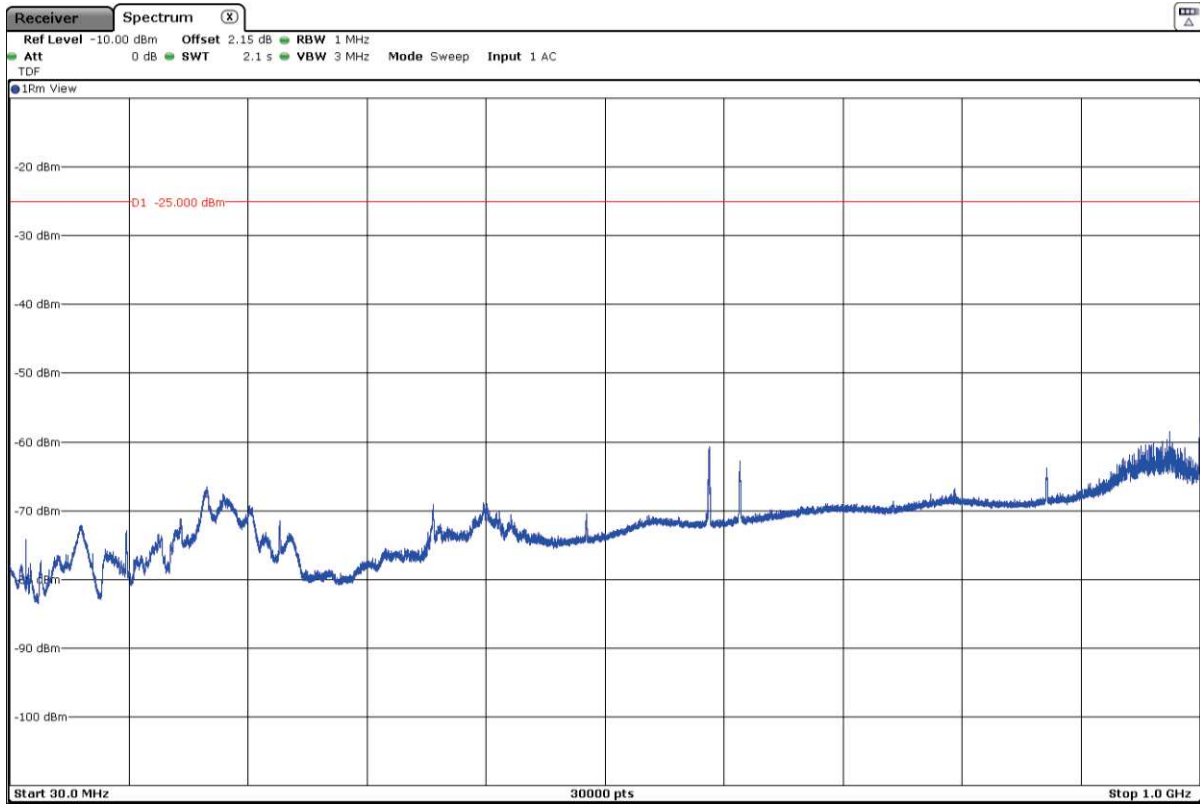
No spurious frequencies at less than 20 dB below the limit.

Measurement Uncertainty (dB)	<± 5.08 for f < 1 GHz <± 5.13 for f ≥ 1 GHz up to 17 GHz <± 4.82 for f ≥ 17 GHz up to 26.5 GHz <± 5.14 for f ≥ 26.5 GHz up to 27 GHz
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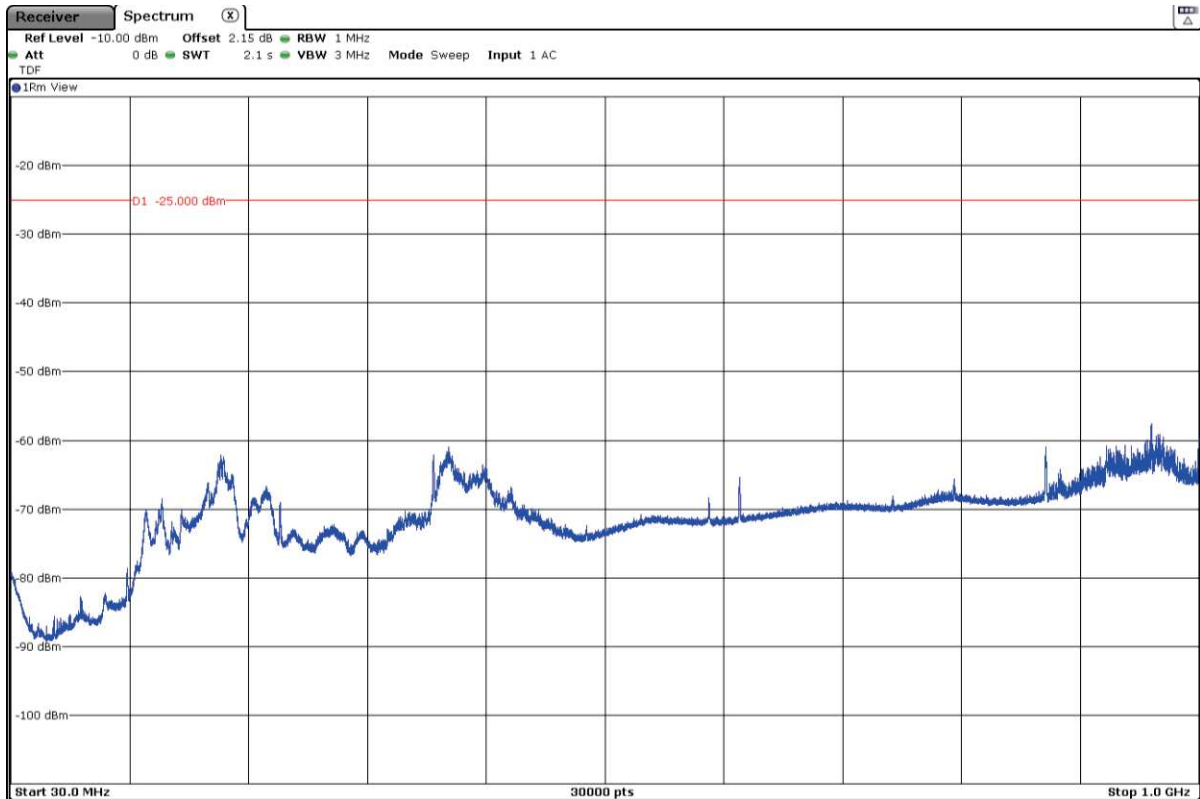
Verdict: PASS

FREQUENCY RANGE 30 MHz - 1 GHz (worst case):

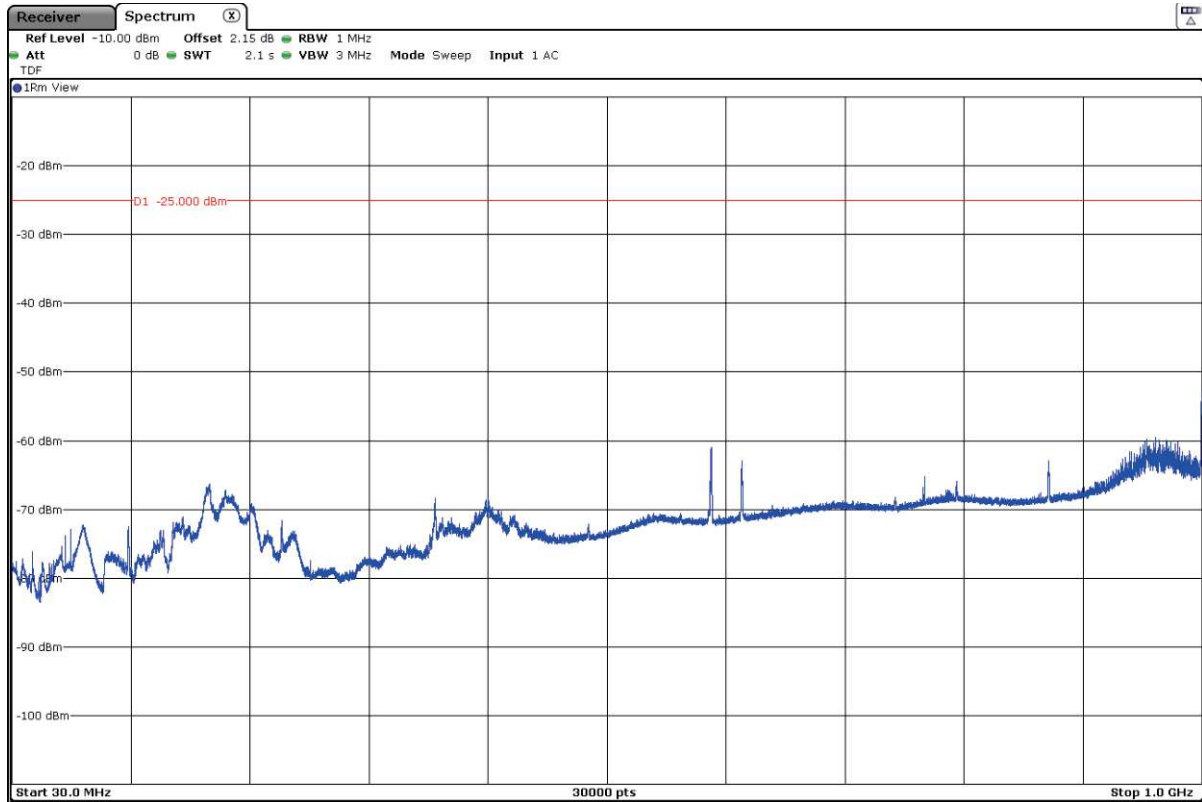
- Low Channel:



- Middle Channel:

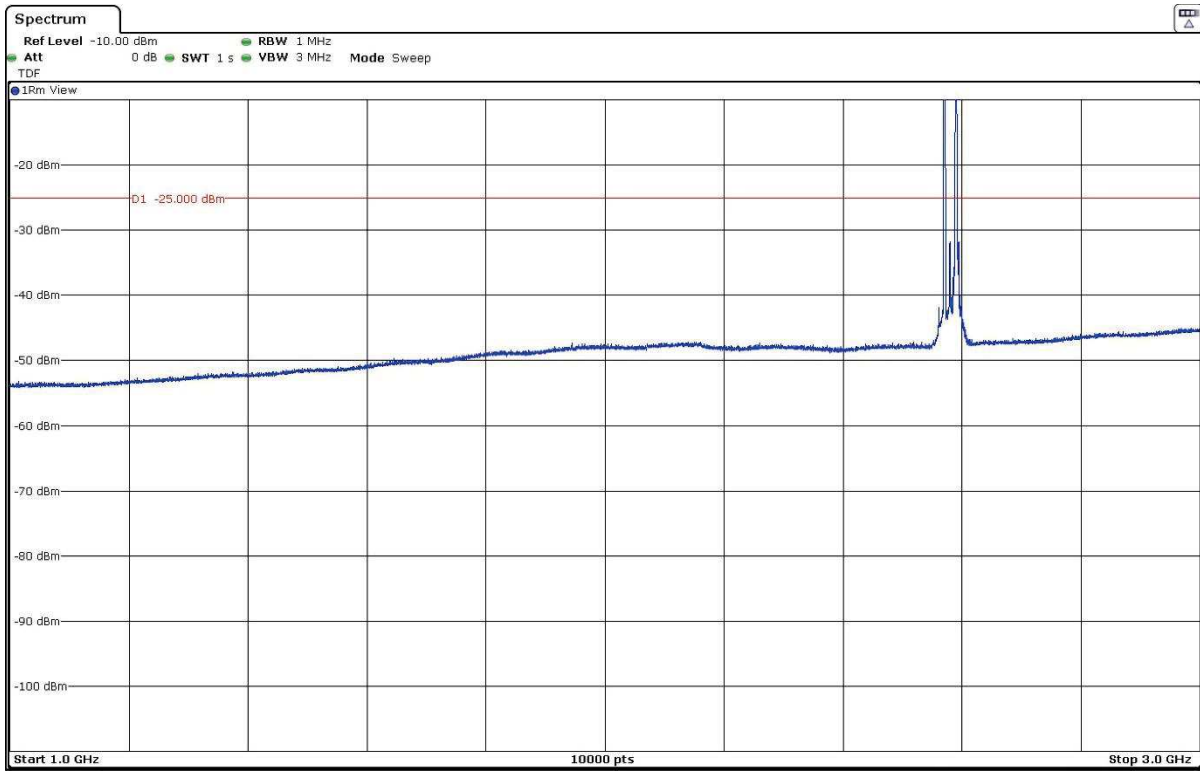


- High Channel:



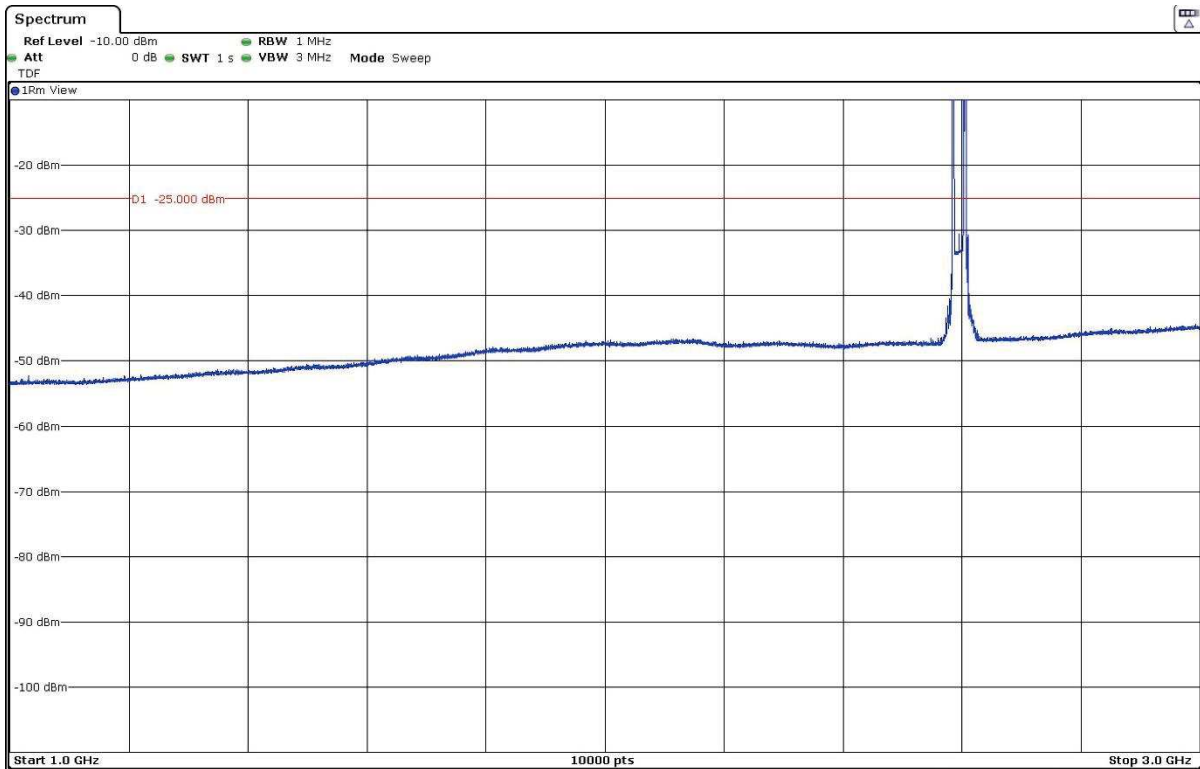
FREQUENCY RANGE 1 - 3 GHz (worst case):

- Low Channel:



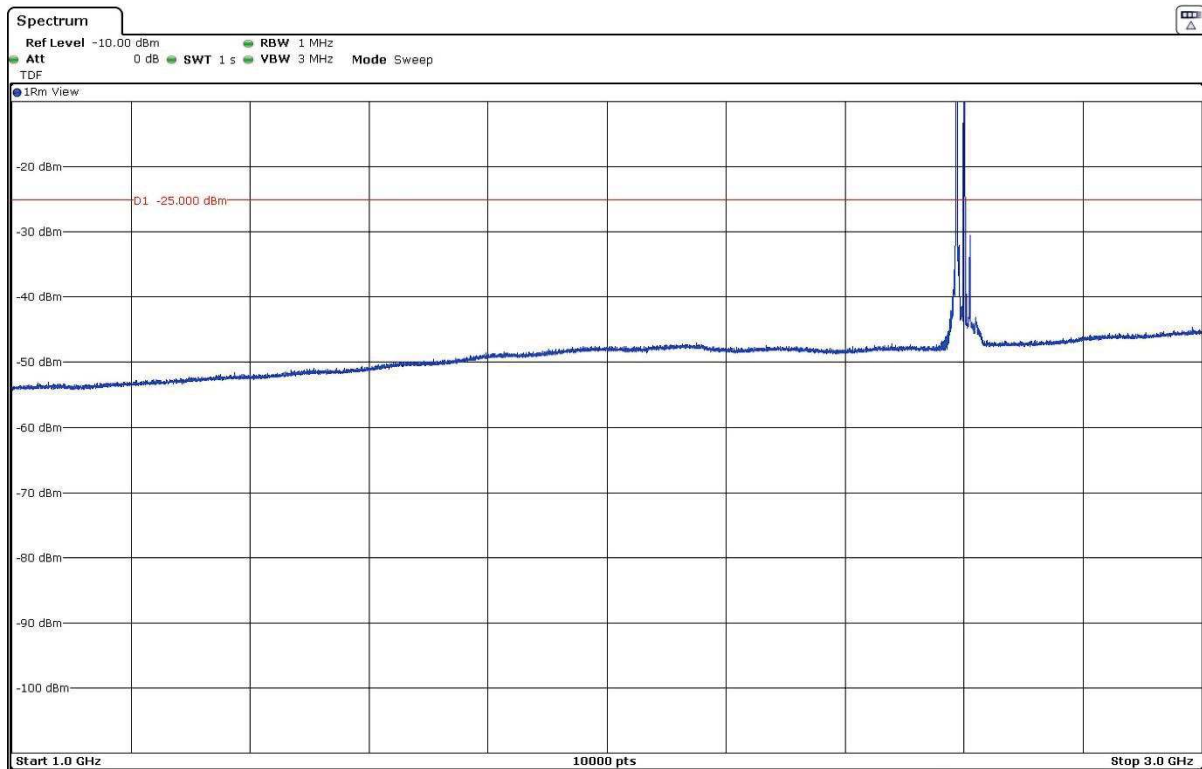
The peak above the limit are the carrier frequencies.

- Middle Channel:



The peak above the limit are the carrier frequencies.

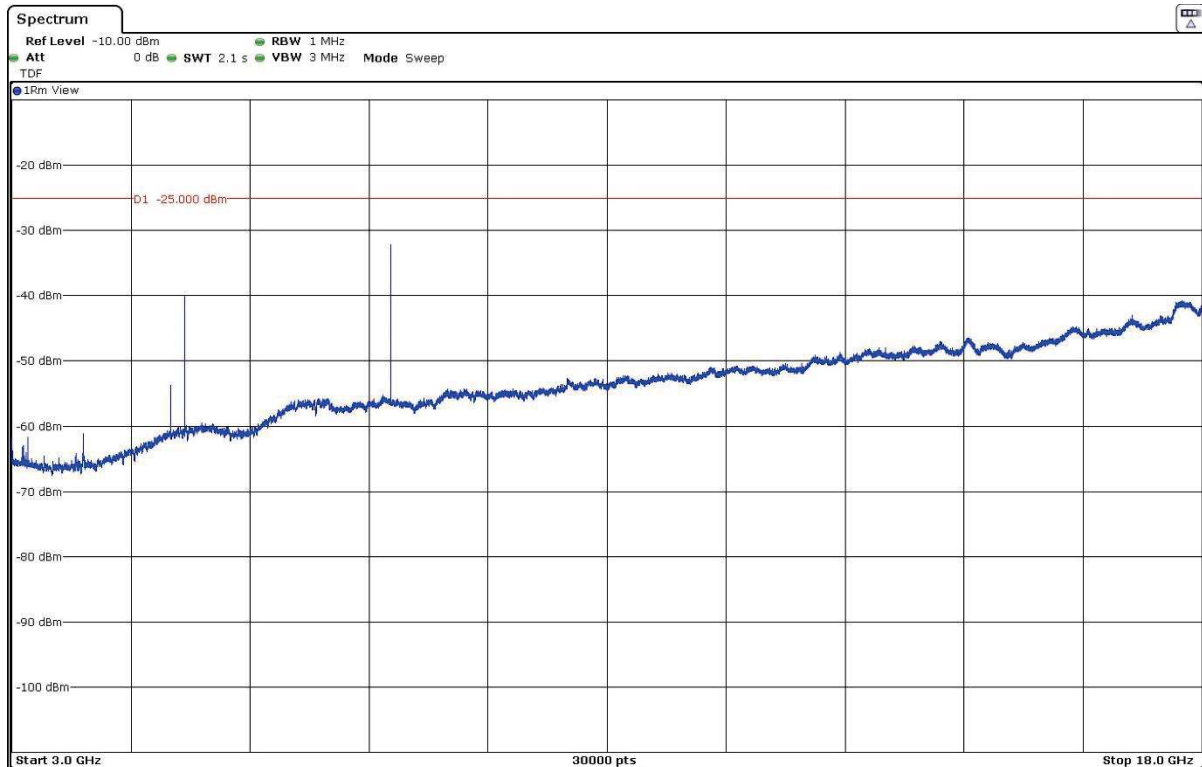
- High Channel:



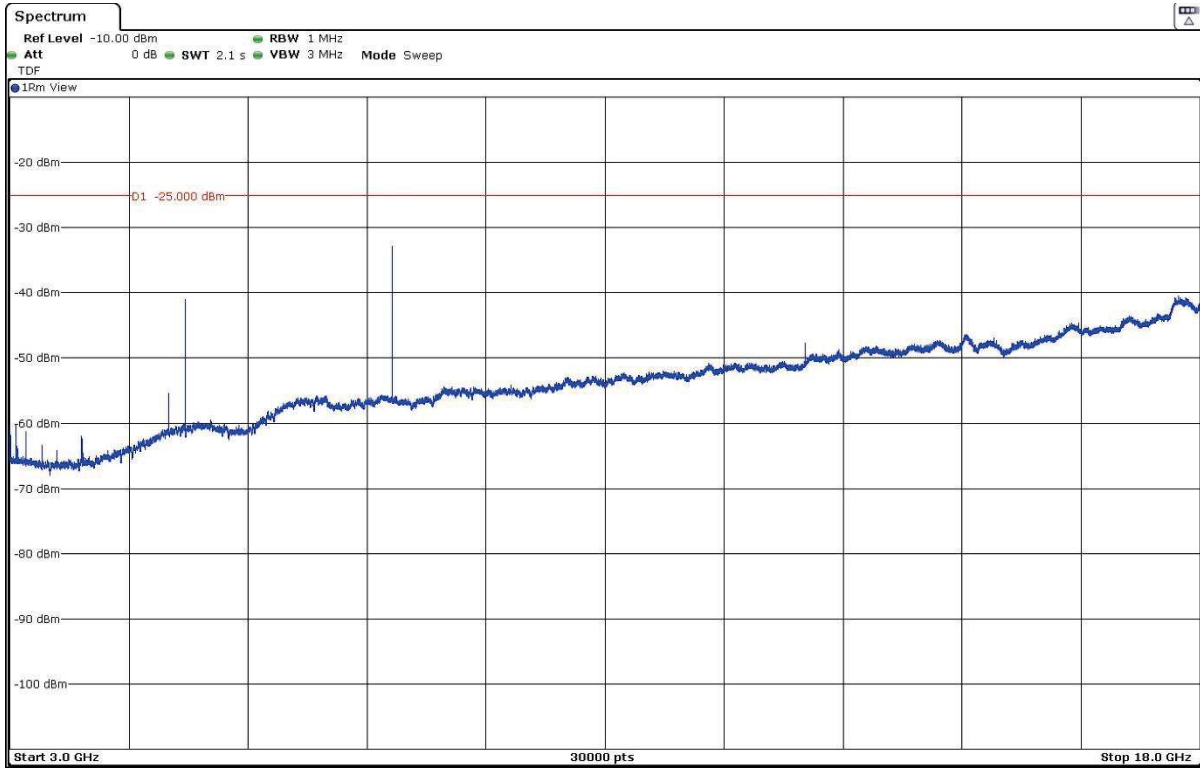
The peak above the limit are the carrier frequencies.

FREQUENCY RANGE 3 - 18 GHz (worst case):

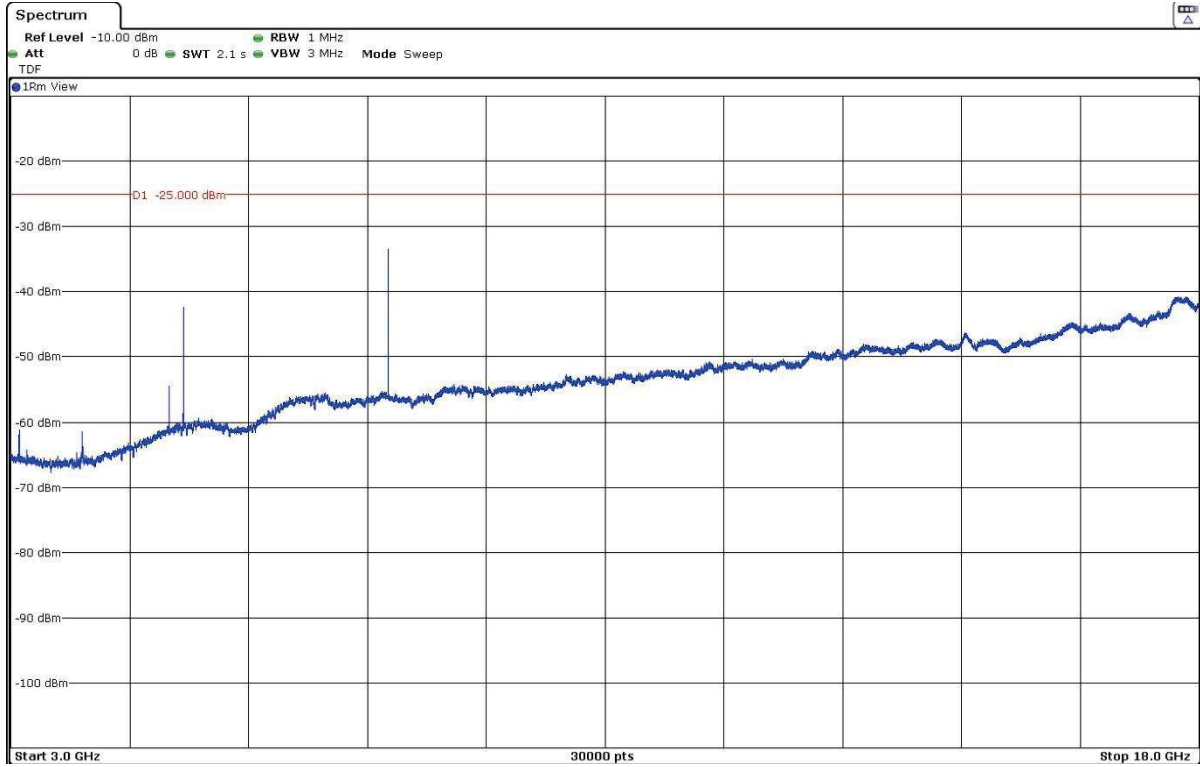
- Low Channel:



- Middle Channel:

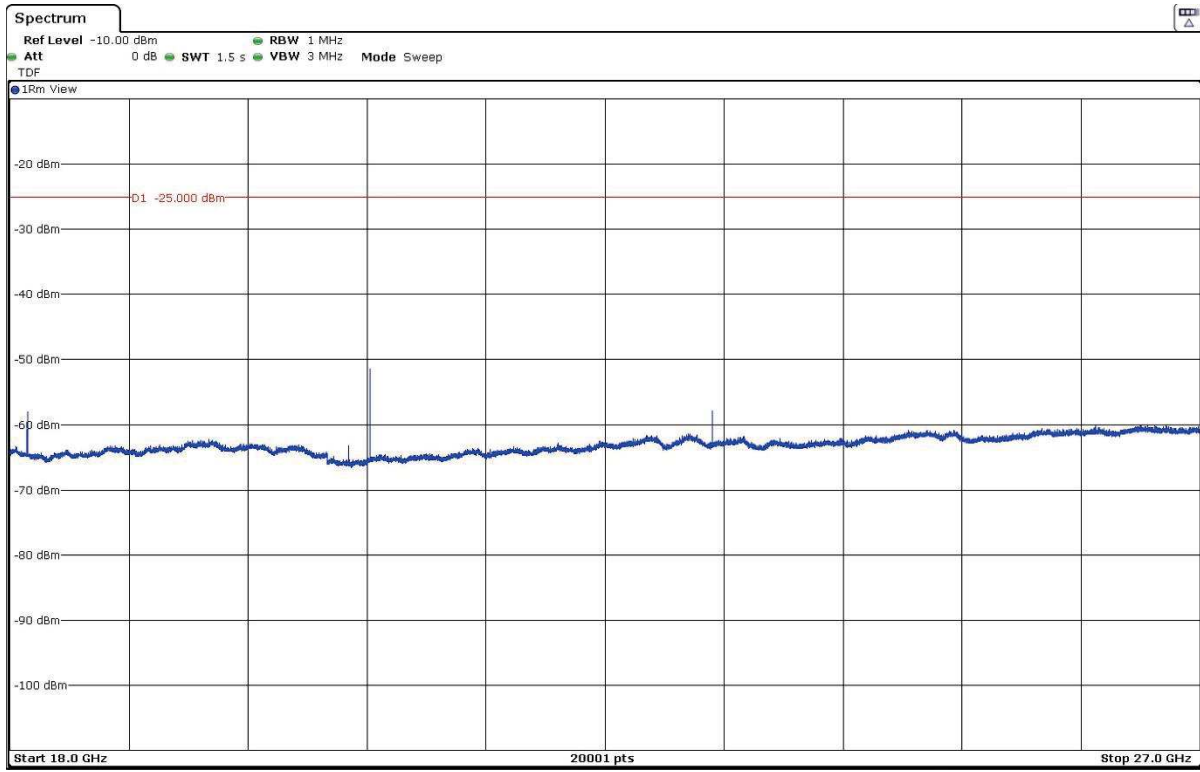


- High Channel:

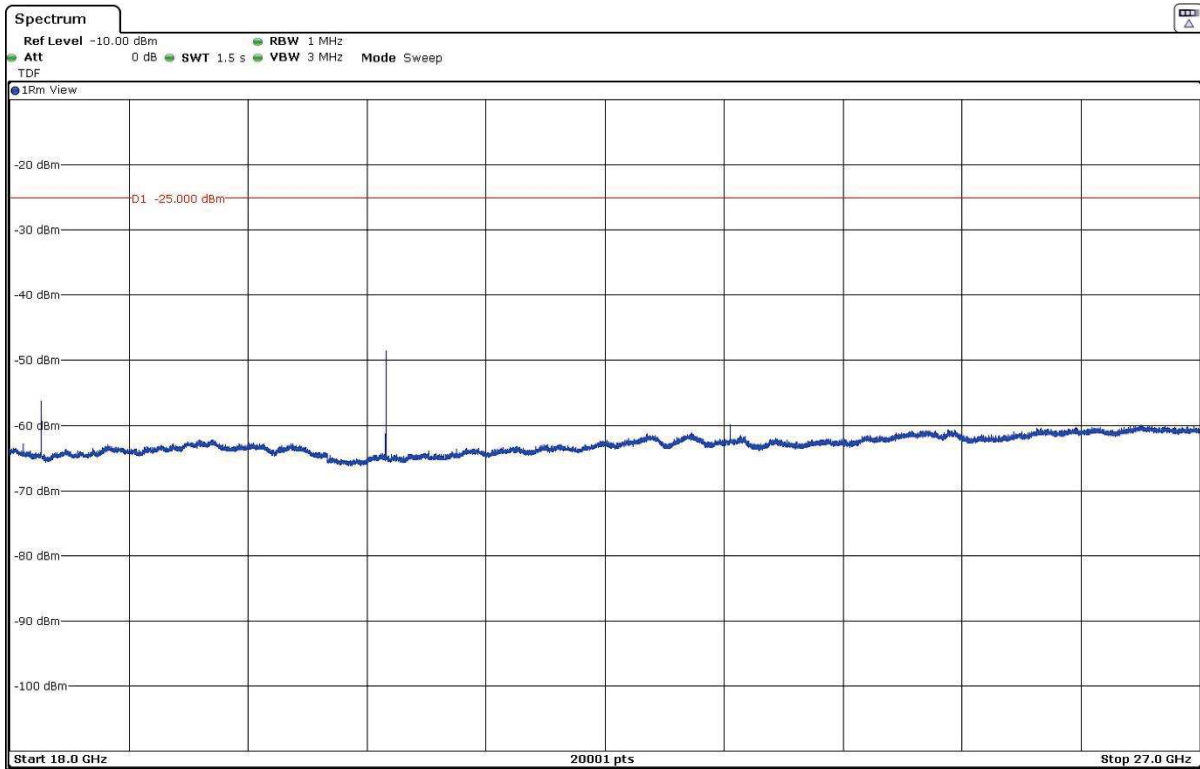


FREQUENCY RANGE 18 - 27 GHz (worst case):

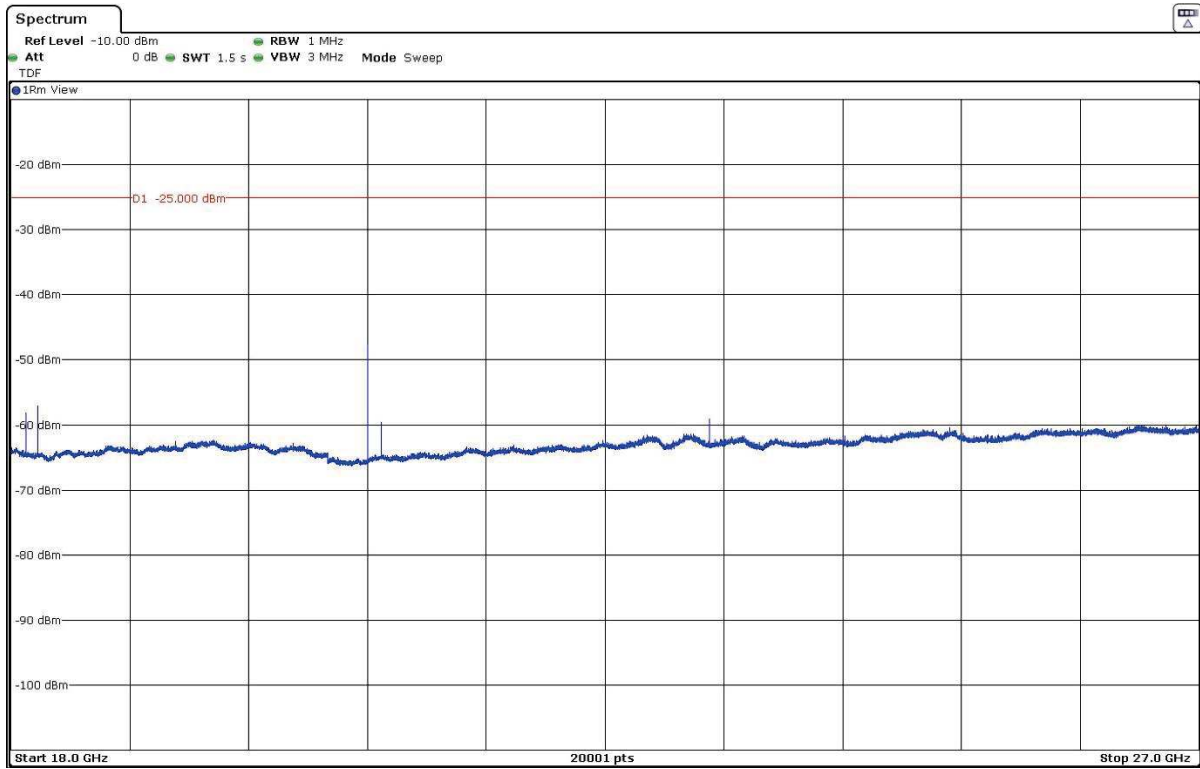
- Low Channel:



- Middle Channel:



- High Channel:

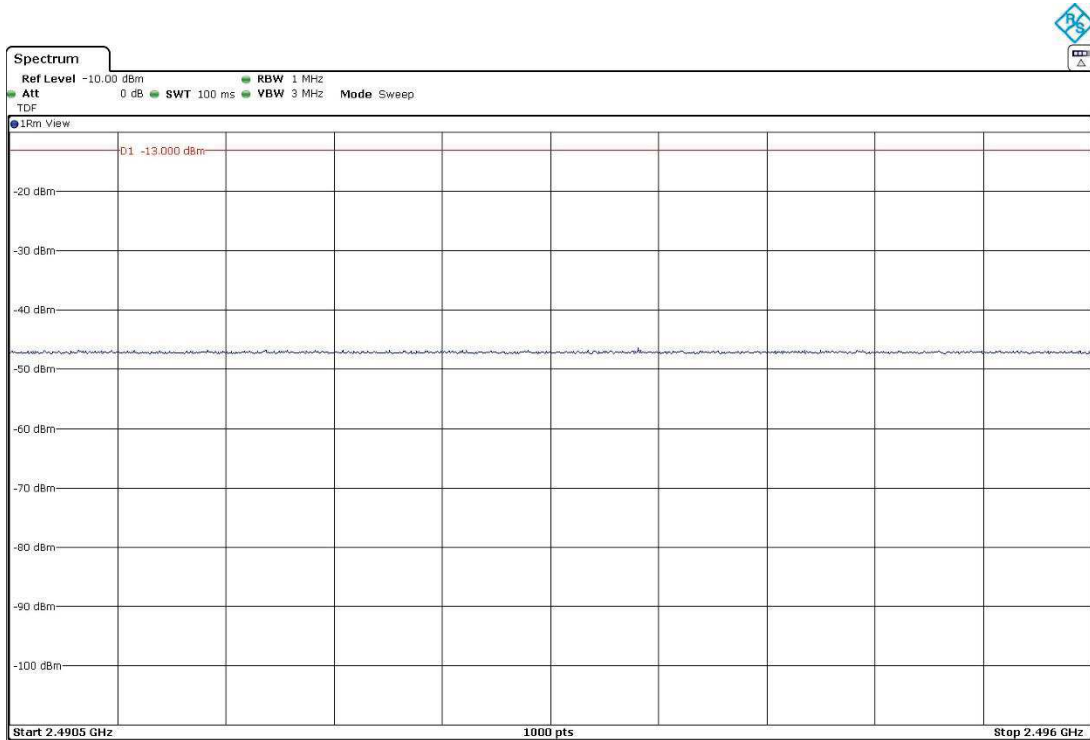


FREQUENCY RANGE 2490.5 - 2496 MHz (worst case):

- Low Channel:



- Middle Channel:



- High Channel:



• **n41A + LTE Band 41:**

A preliminary scan determined the worst case:

1) n41A (Module NAD2):

n41A: Pi/2 BPSK, BW=100 MHz, SCS=30 kHz, RB=136, Offset=0.

2) LTE Band 41 (Module NAD1):

41: QPSK, BW=20 MHz, RB=1, Offset=50.

- LOW CHANNEL:

Frequency range 30 MHz - 1 GHz:

No spurious frequencies at less than 20 dB below the limit.

Frequency range 1 - 27 GHz:

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (GHz)	E.I.R.P (dBm)	Polarization	Detector	Measurement Uncertainty (dB)
7.81875	-42.72	V	RMS	<± 5.13

Frequency range 2490.5 - 2496 MHz:

Spurious frequency (GHz)	E.I.R.P (dBm)	Polarization	Detector	Measurement Uncertainty (dB)
2.49599	-19.94	H	RMS	<± 5.13

- MIDDLE CHANNEL:

Frequency range 30 MHz - 1 GHz:

No spurious frequencies at less than 20 dB below the limit.

Frequency range 1 - 27 GHz:

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (GHz)	E.I.R.P (dBm)	Polarization	Detector	Measurement Uncertainty (dB)
7.95925	-41.94	V	RMS	<± 5.13

Frequency range 2490.5 - 2496 MHz:

No spurious frequencies at less than 20 dB below the limit.

- HIGH CHANNEL:

Frequency range 30 MHz - 1 GHz:

No spurious frequencies at less than 20 dB below the limit.

Frequency range 1 - 27 GHz:

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (GHz)	E.I.R.P (dBm)	Polarization	Detector	Measurement Uncertainty (dB)
7.71375	-41.82	V	RMS	<± 5.13

Frequency range 2490.5 - 2496 MHz:

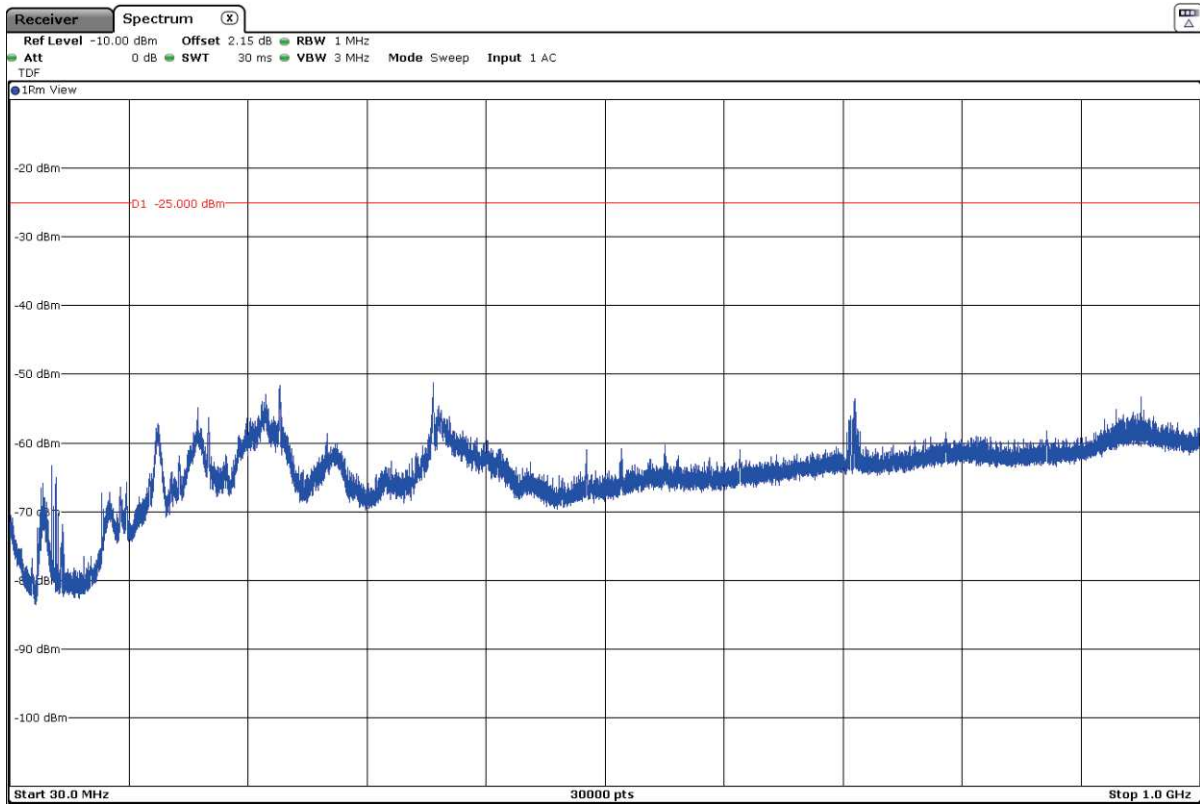
No spurious frequencies at less than 20 dB below the limit.

Measurement Uncertainty (dB)	<± 5.08 for f < 1 GHz <± 5.13 for f ≥ 1 GHz up to 17 GHz <± 4.82 for f ≥ 17 GHz up to 26 GHz
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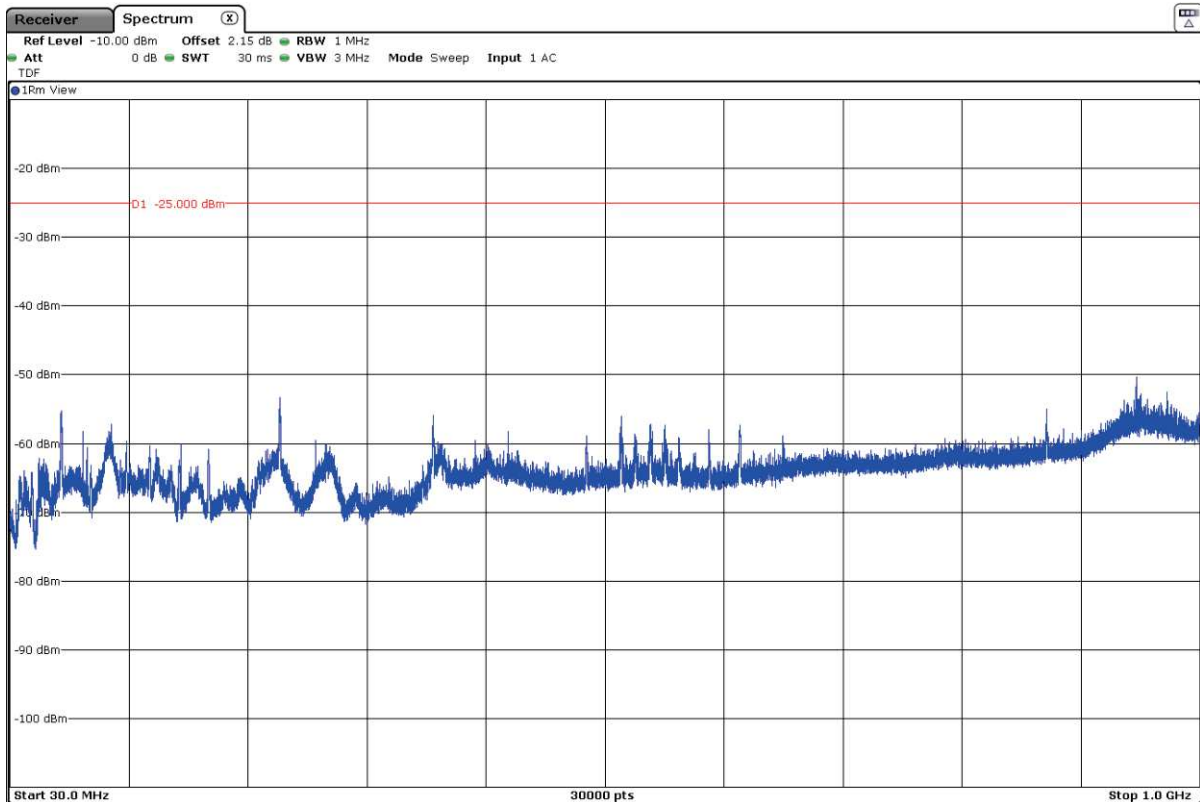
Verdict: PASS

FREQUENCY RANGE 30 MHz - 1 GHz (worst case):

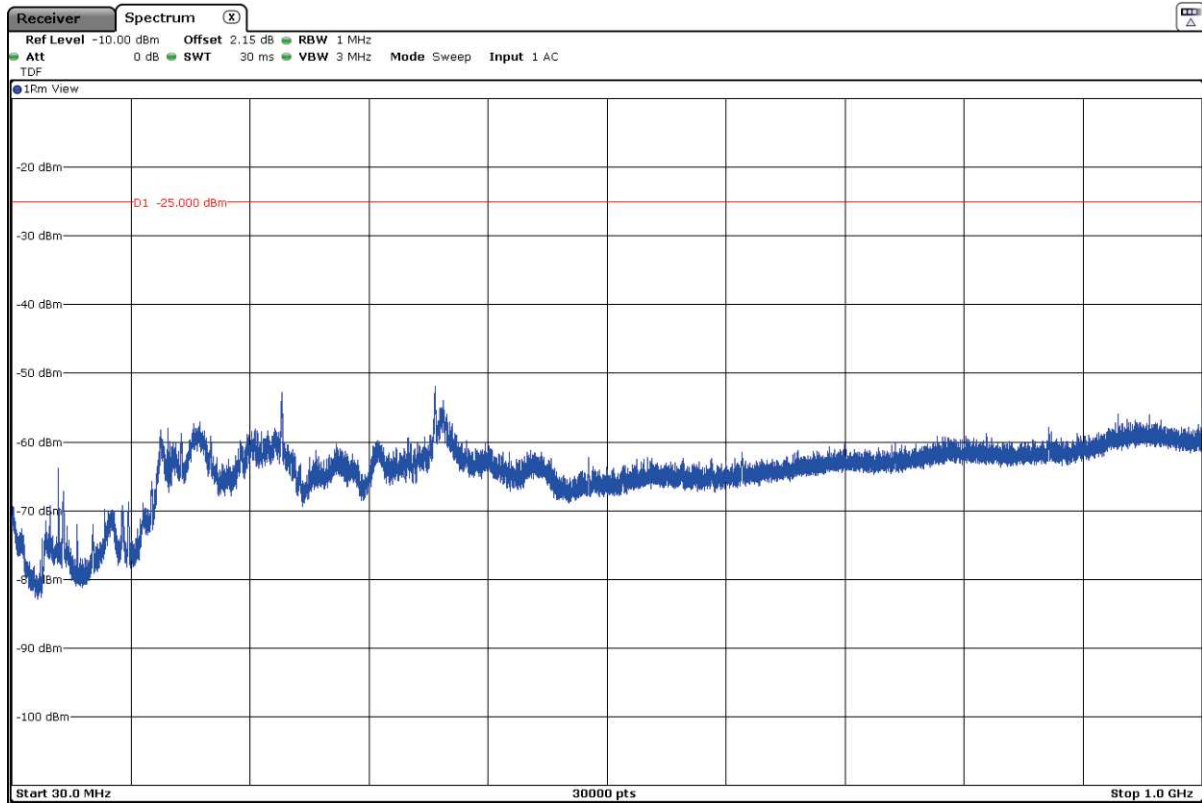
- Low Channel:



- Middle Channel:

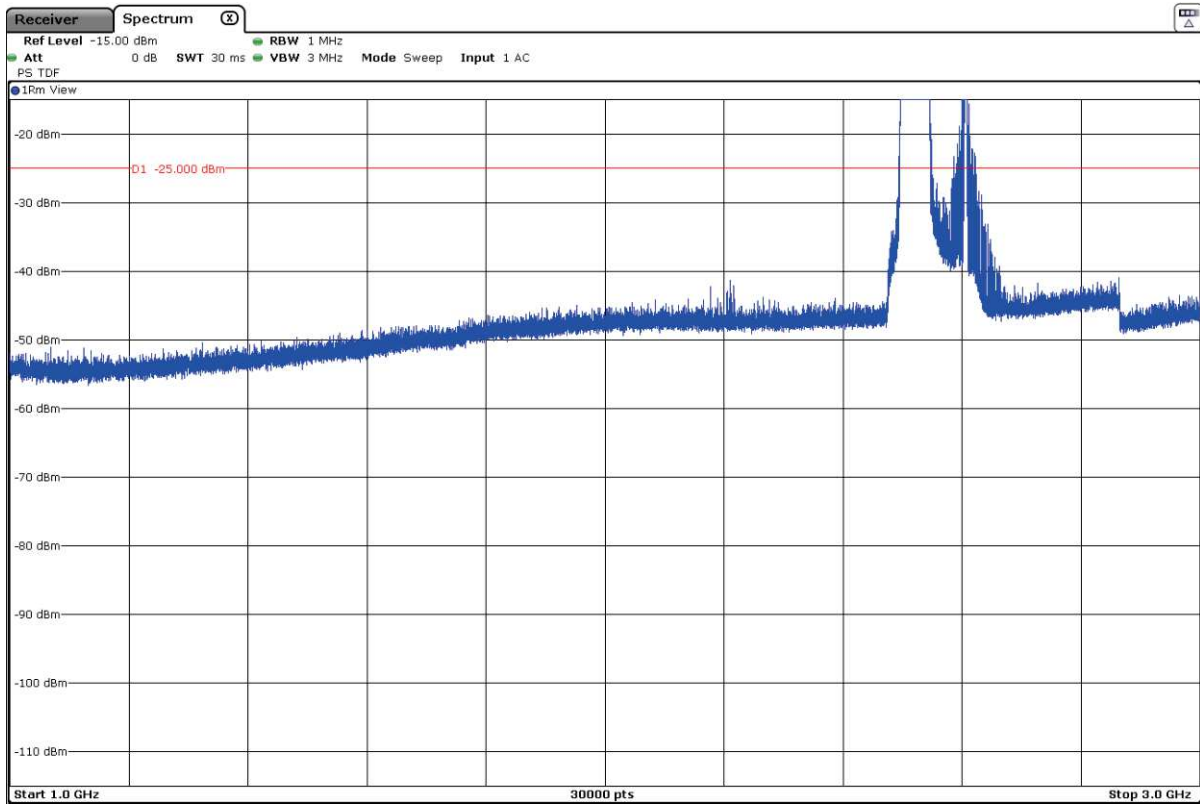


- High Channel:



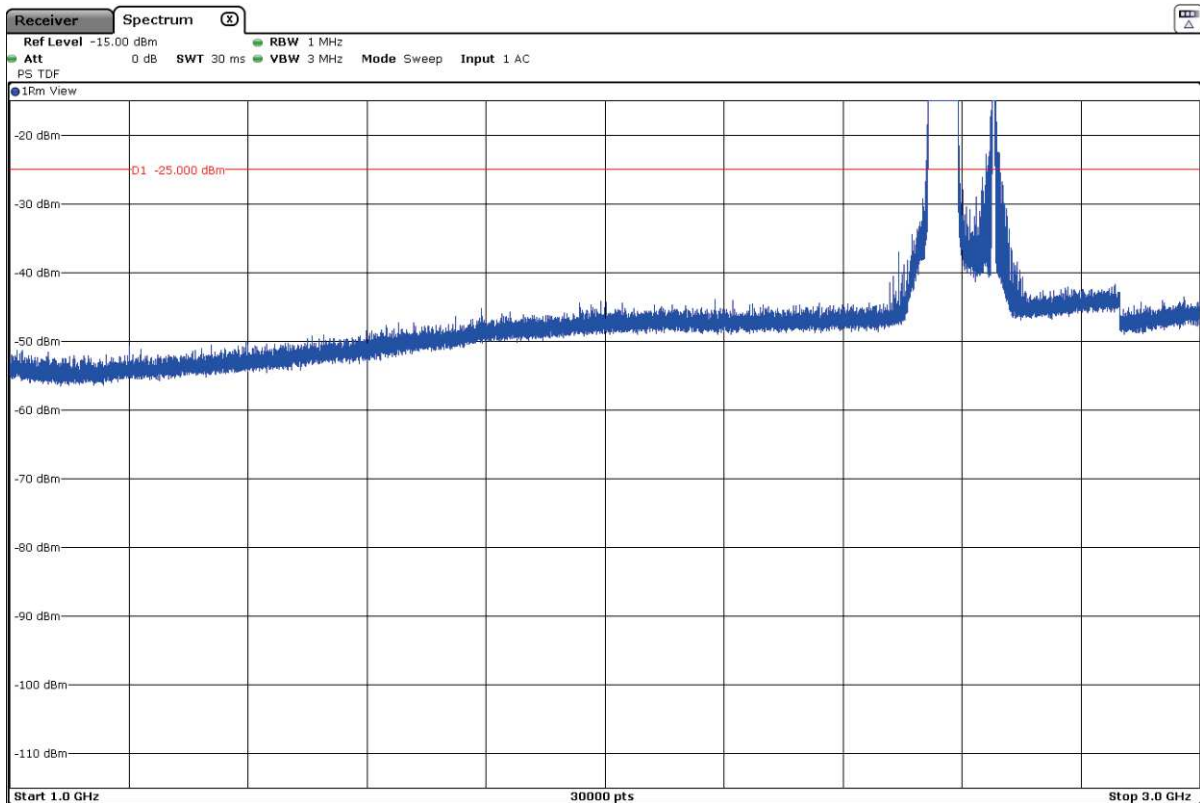
FREQUENCY RANGE 1 - 3 GHz (worst case):

- Low Channel:



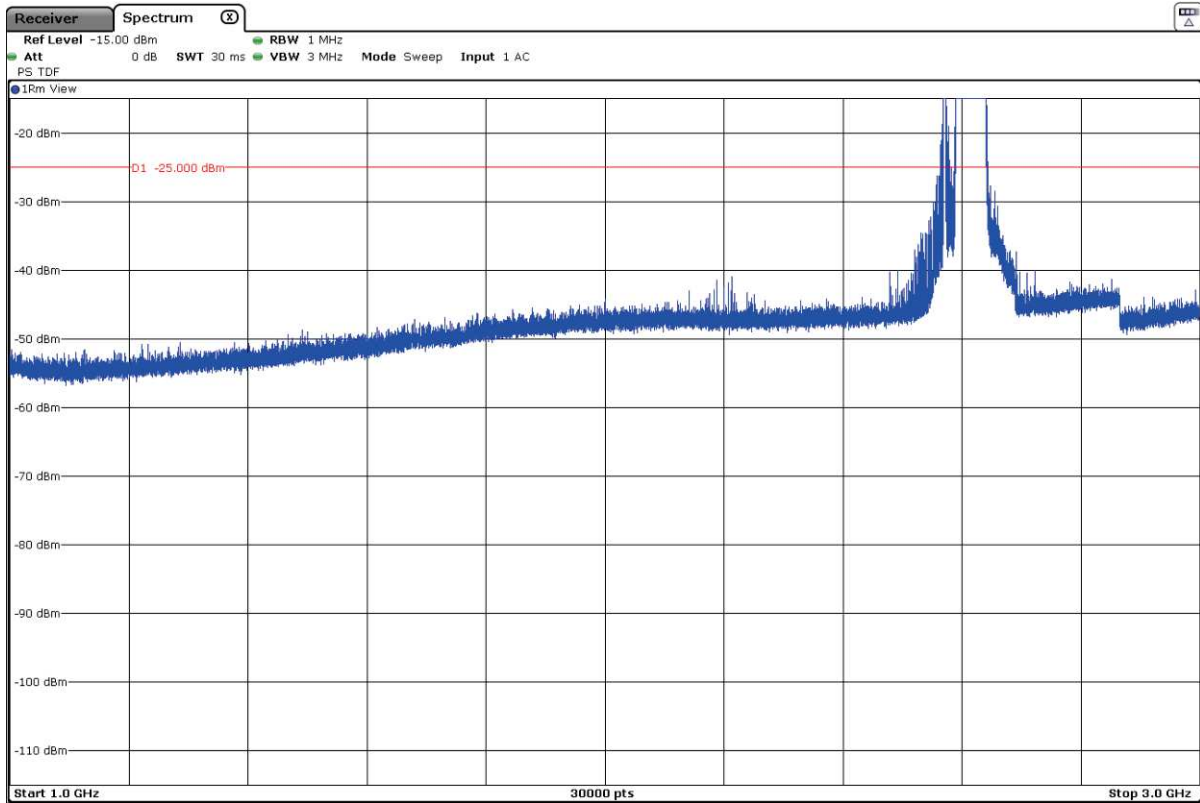
The peaks above the limit are the carrier frequencies.

- Middle Channel:



The peaks above the limit are the carrier frequencies.

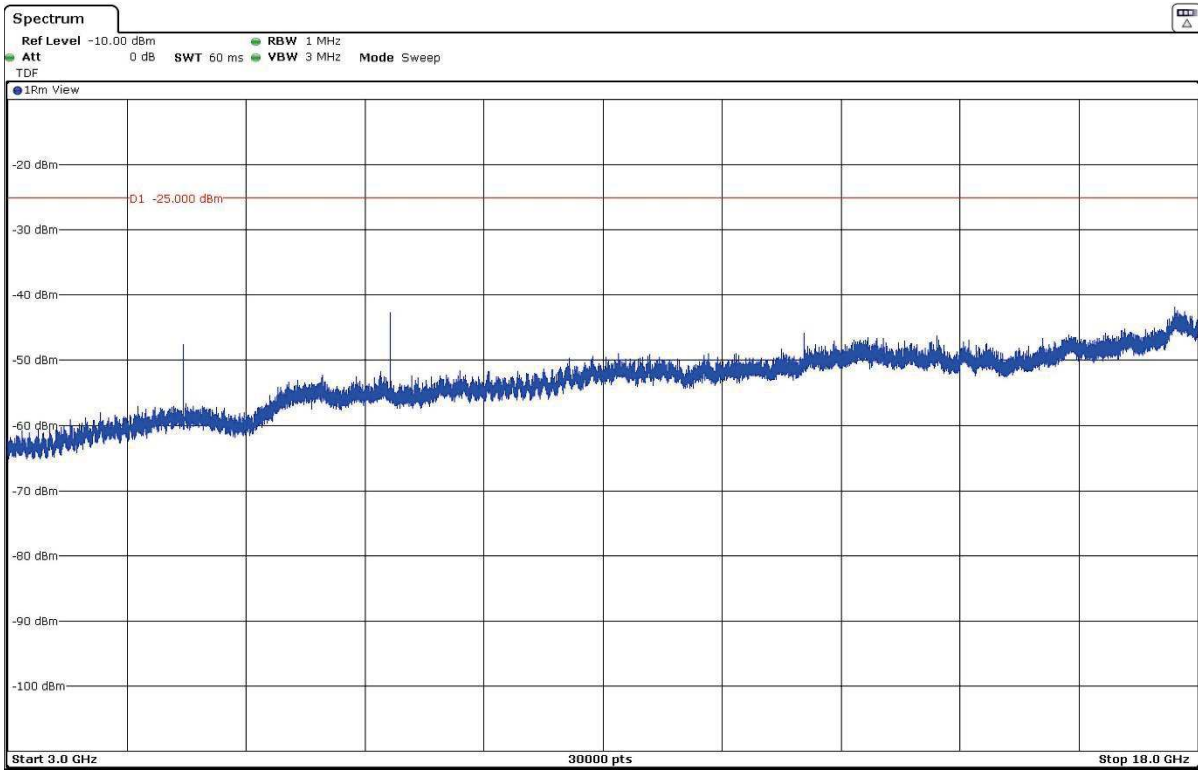
- High Channel:



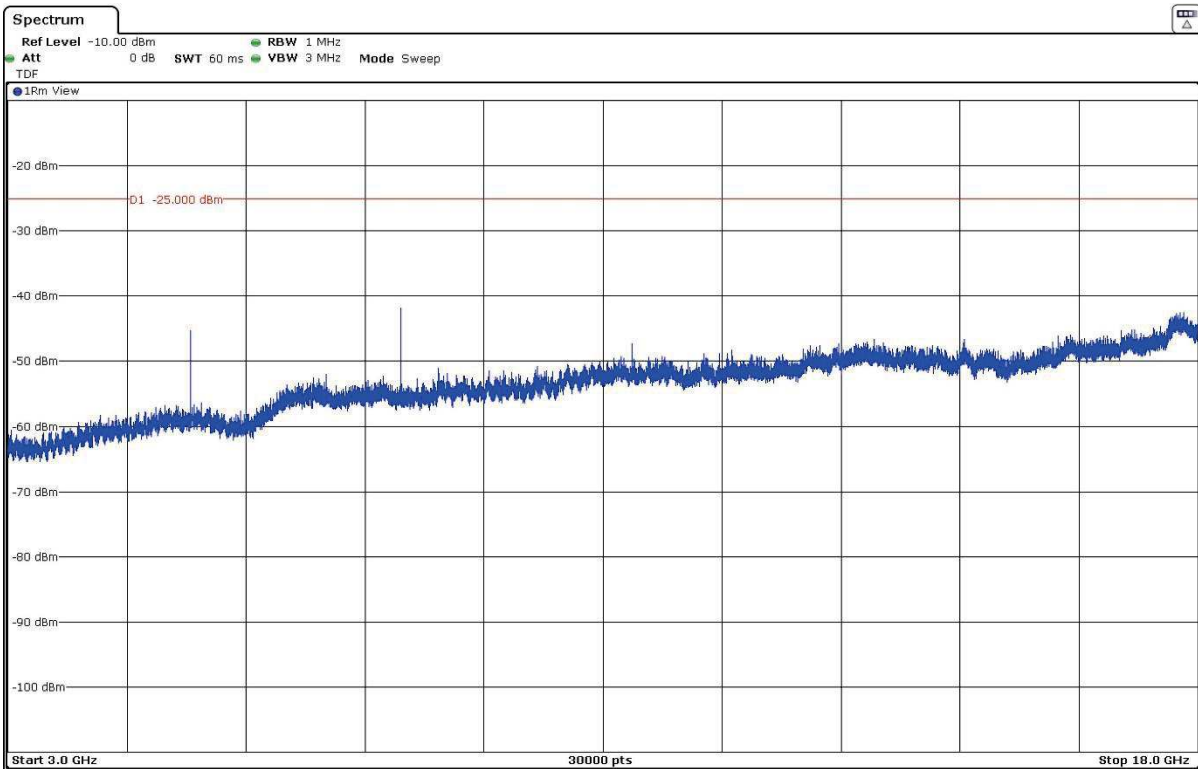
The peaks above the limit are the carrier frequencies.

FREQUENCY RANGE 3 - 18 GHz (worst case):

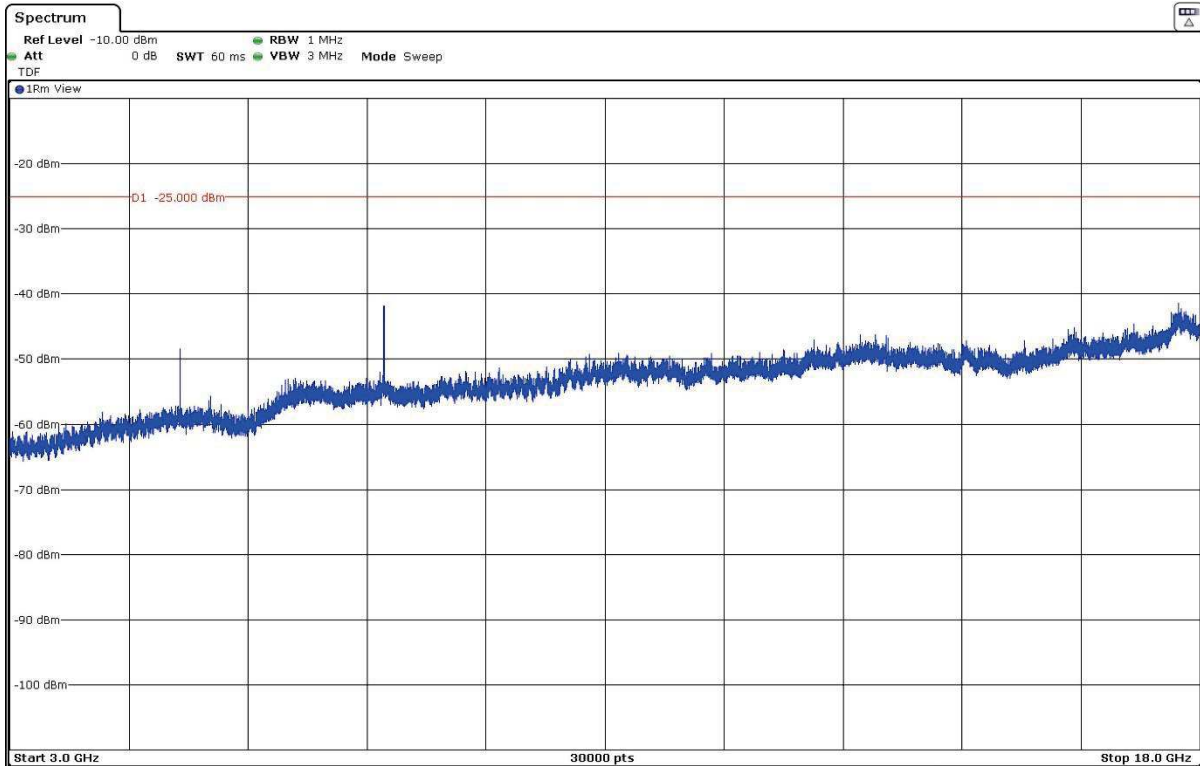
- Low Channel:



- Middle Channel:

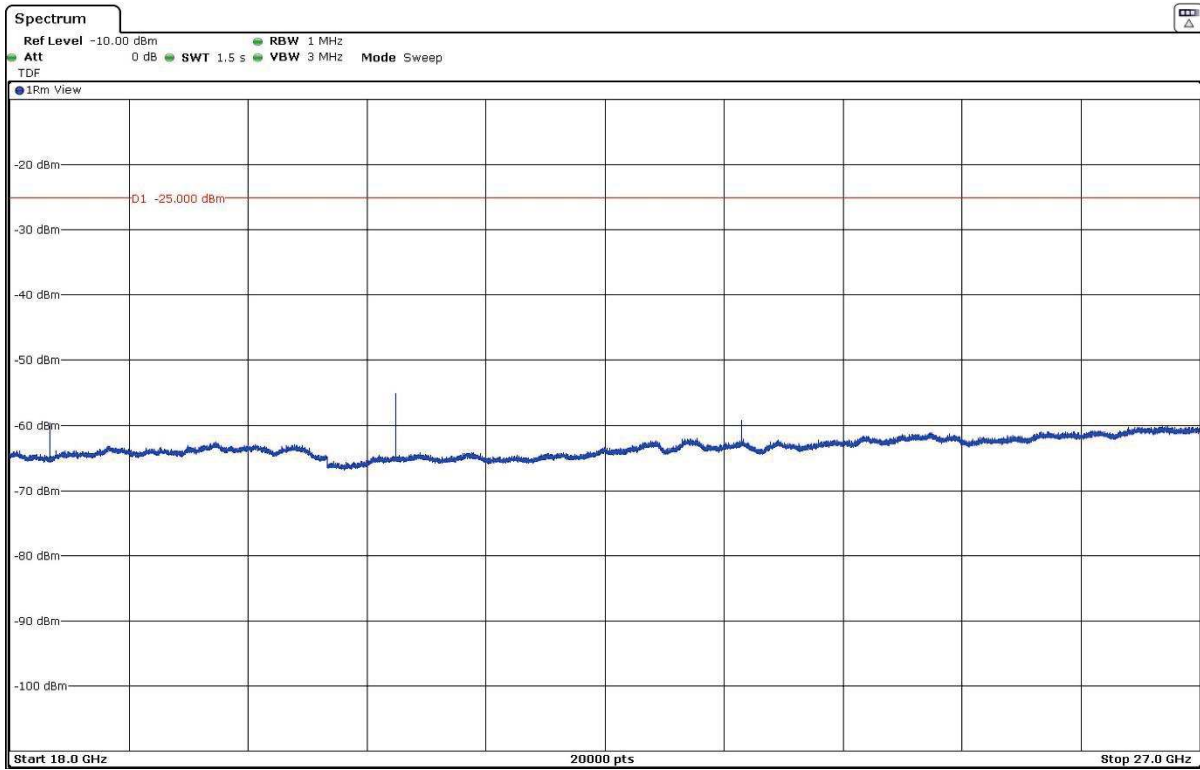


- High Channel:

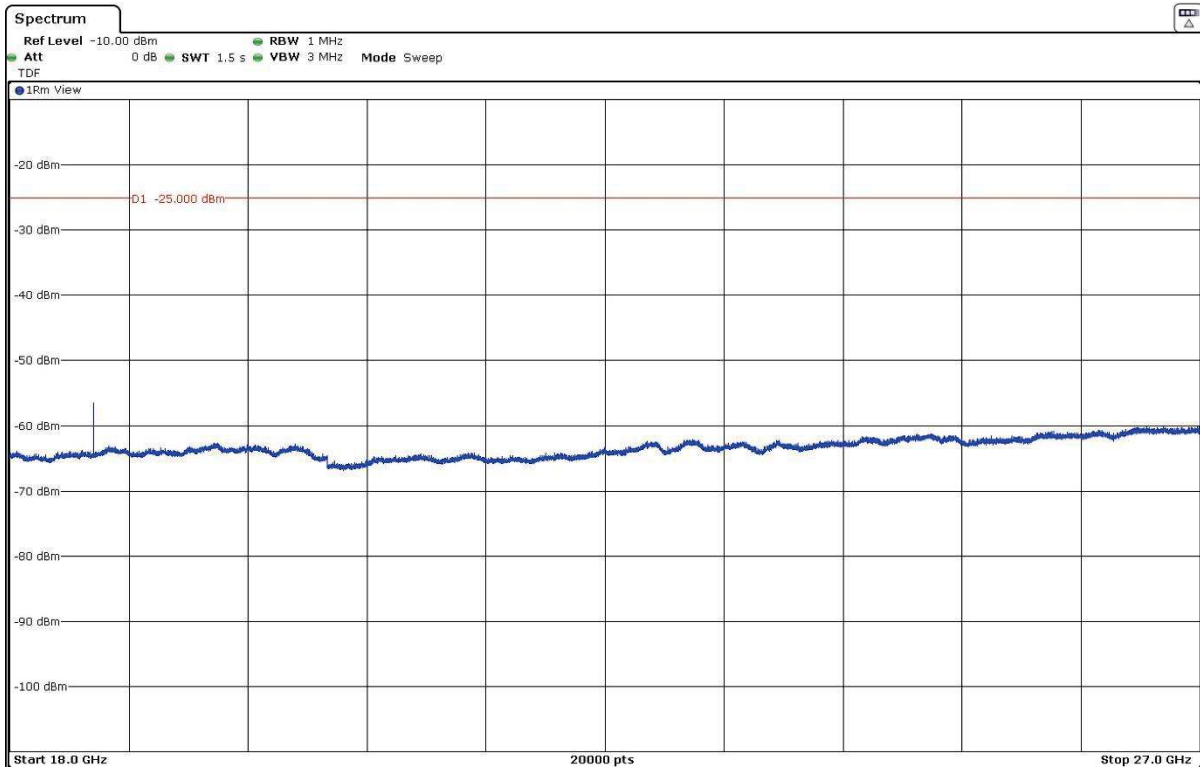


FREQUENCY RANGE 18 - 27 GHz (worst case):

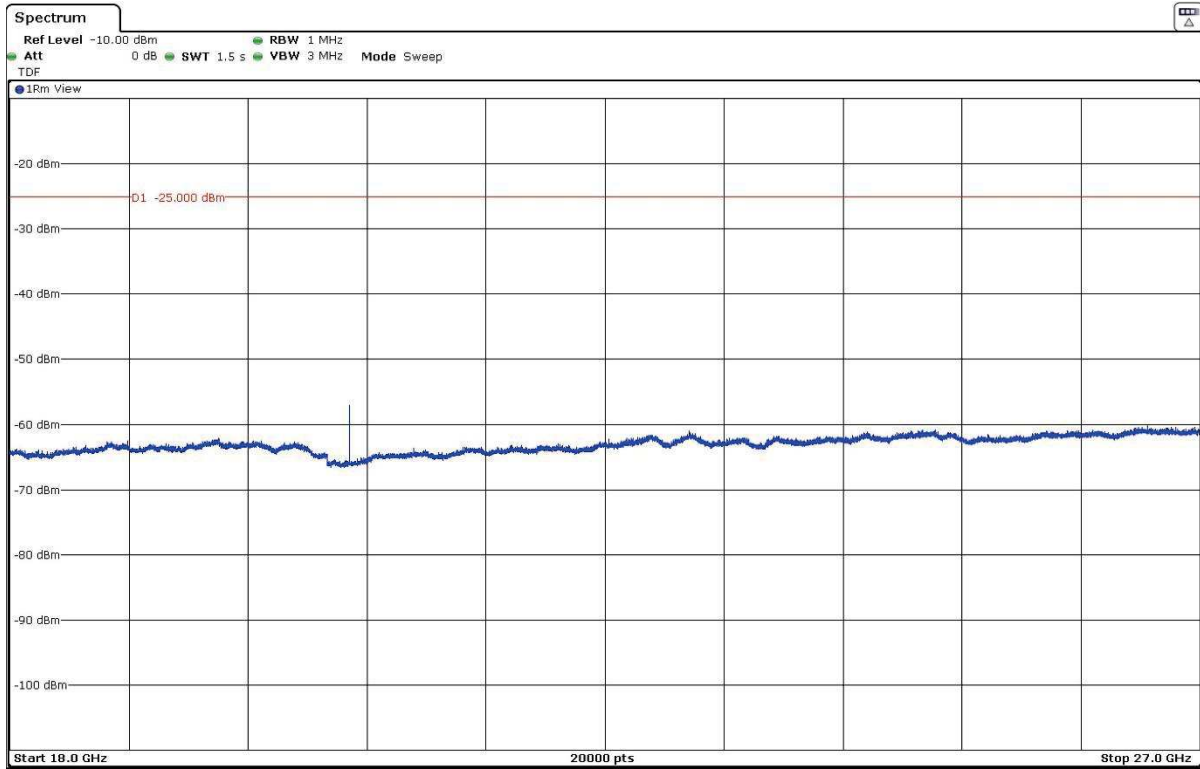
- Low Channel:



- Middle Channel:

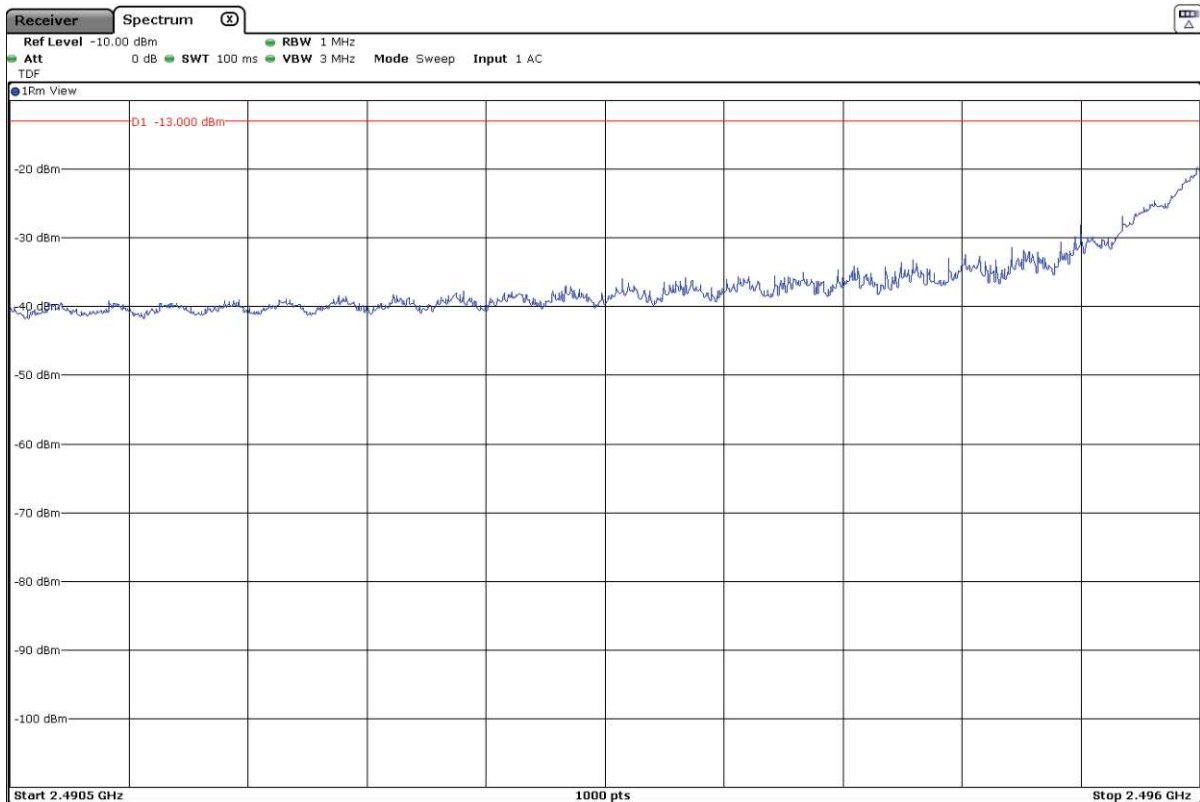


- High Channel:

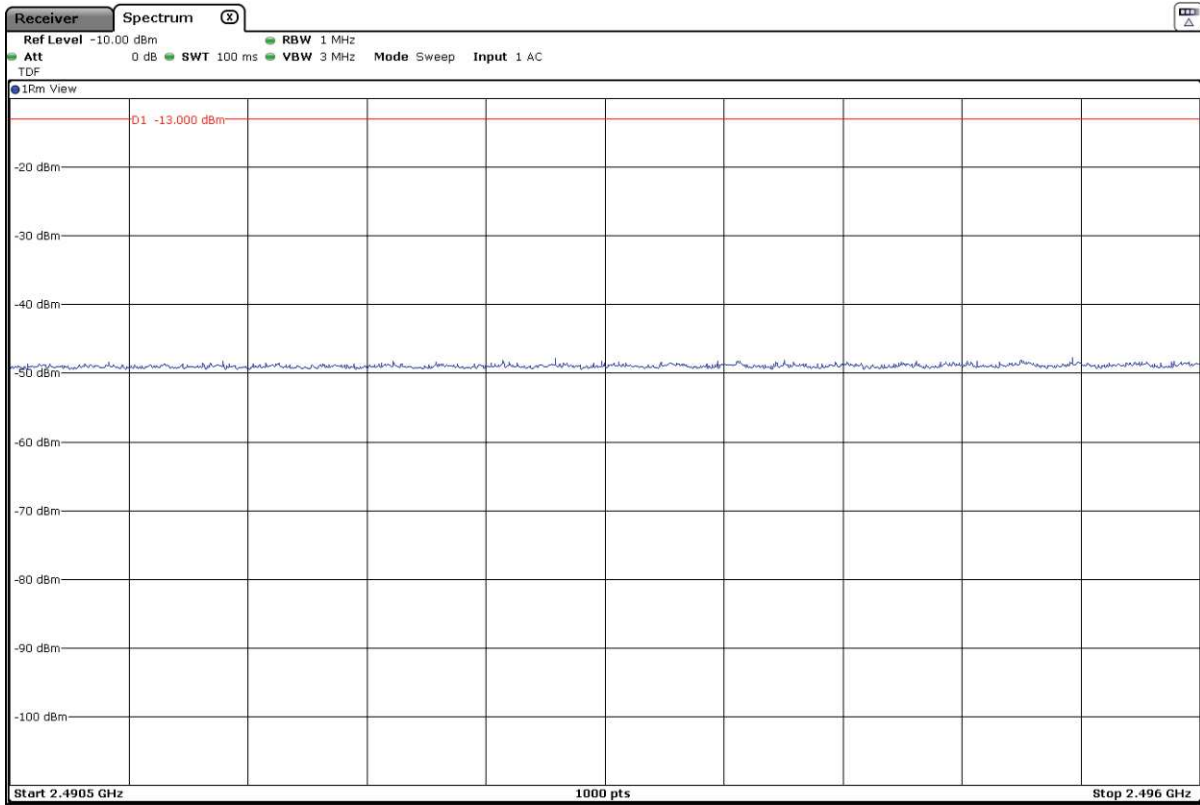


FREQUENCY RANGE 2490.5 - 2496 MHz (worst case):

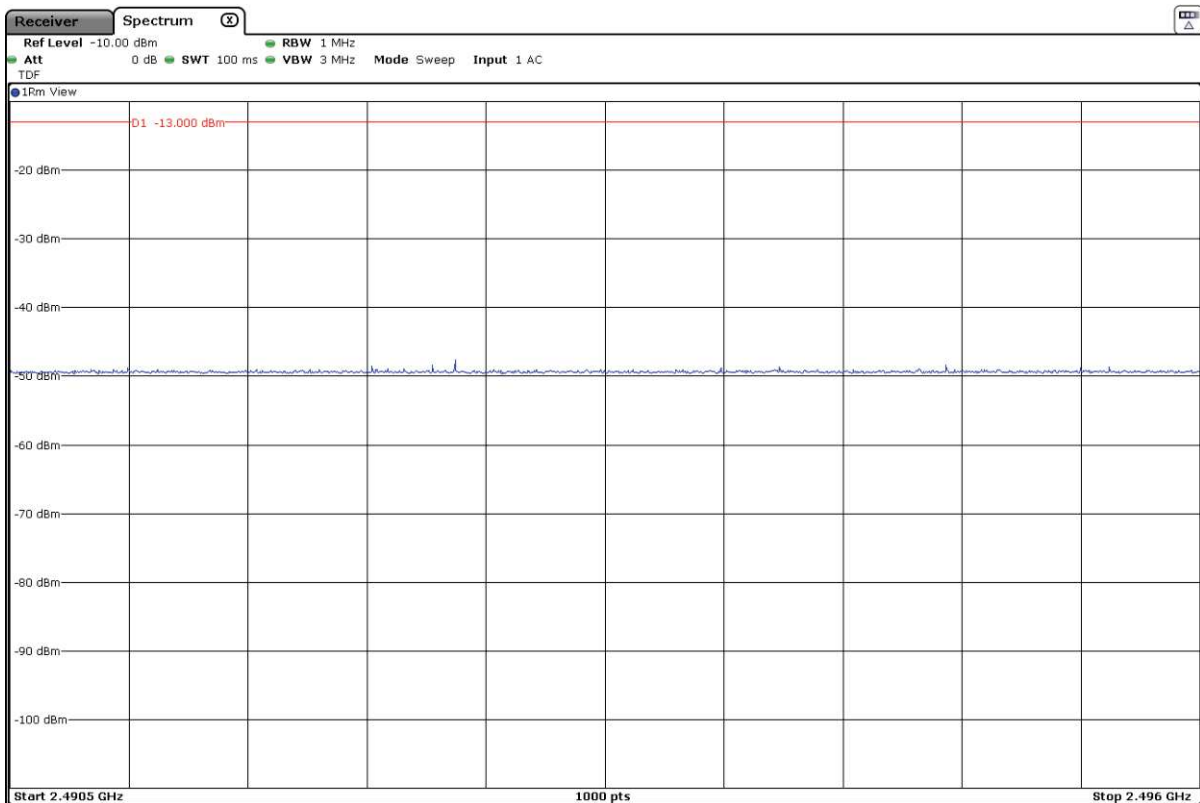
- Low Channel:



- Middle Channel:



- High Channel:



• **n66A + LTE Band 66:**

A preliminary scan determined the worst case:

1) n66A (Module NAD2):

n66A: Pi/2 BPSK, BW=40 MHz, SCS=15 kHz, RB=1, Offset=215.

2) LTE Band 66 (Module NAD1):

66: QPSK, BW=3 MHz, RB=1, Offset=0.

- LOW CHANNEL:

Frequency range 30 MHz - 1 GHz:

No spurious frequencies at less than 20 dB below the limit.

Frequency range 1 - 18 GHz:

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (GHz)	E.I.R.P (dBm)	Polarization	Detector	Measurement Uncertainty (dB)
1.7881	-24.37	V	Peak	<± 5.13
3.50025	-26.84	V	Peak	<± 5.13
5.25025	-28.85	V	Peak	<± 5.13

- MIDDLE CHANNEL:

Frequency range 30 MHz - 1 GHz:

No spurious frequencies at less than 20 dB below the limit.

Frequency range 1 - 18 GHz:

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (GHz)	E.I.R.P (dBm)	Polarization	Detector	Measurement Uncertainty (dB)
3.53075	-28.43	V	Peak	<± 5.13
17.64325	-25	V	Peak	<± 4.82

- HIGH CHANNEL:

Frequency range 30 MHz - 1 GHz:

No spurious frequencies at less than 20 dB below the limit.

Frequency range 1 - 18 GHz:

Spurious frequencies at less than 20 dB below the limit:

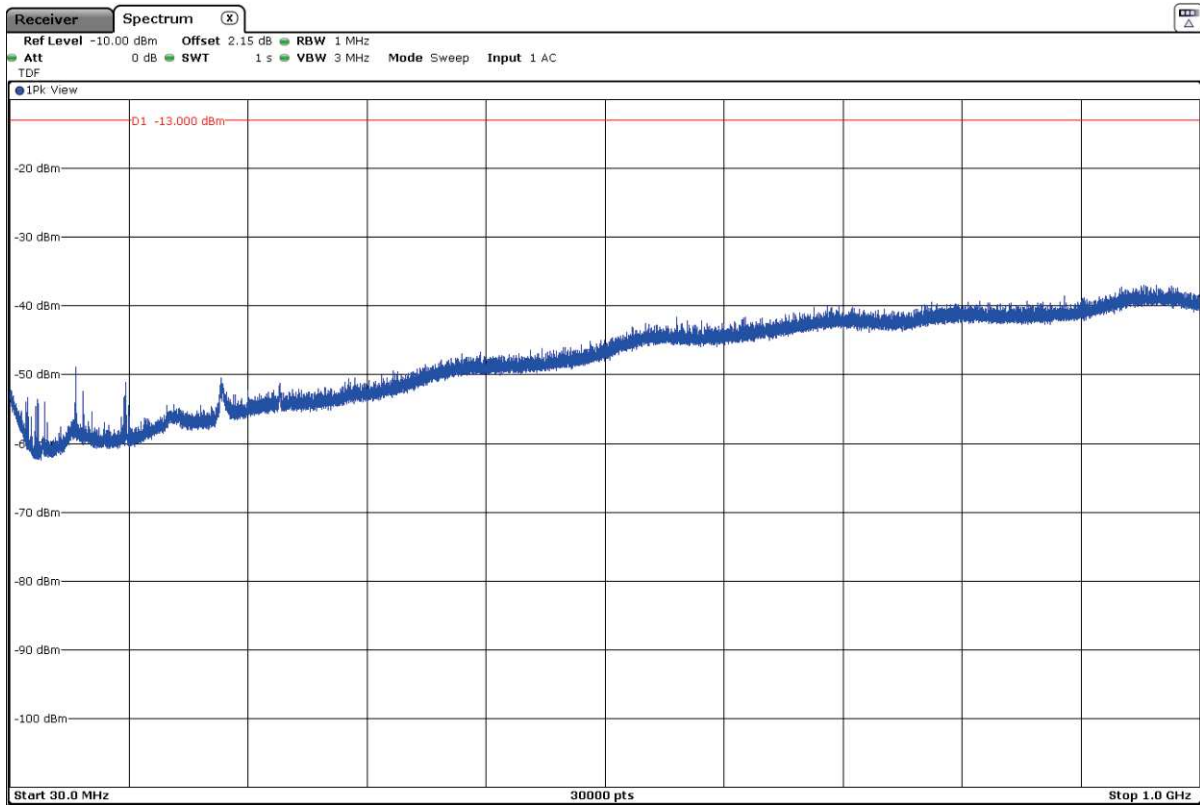
Spurious frequency (GHz)	E.I.R.P (dBm)	Polarization	Detector	Measurement Uncertainty (dB)
1.702033	-26.31	V	Peak	<± 5.13
3.47475	-27.37	V	Peak	<± 5.13
5.21175	-29.32	V	Peak	<± 5.13
17.79325	-23.73	V	Peak	<± 4.82

Measurement Uncertainty (dB)	<± 5.08 for $f < 1$ GHz <± 5.13 for $f \geq 1$ GHz up to 17 GHz <± 4.82 for $f \geq 17$ GHz up to 18 GHz
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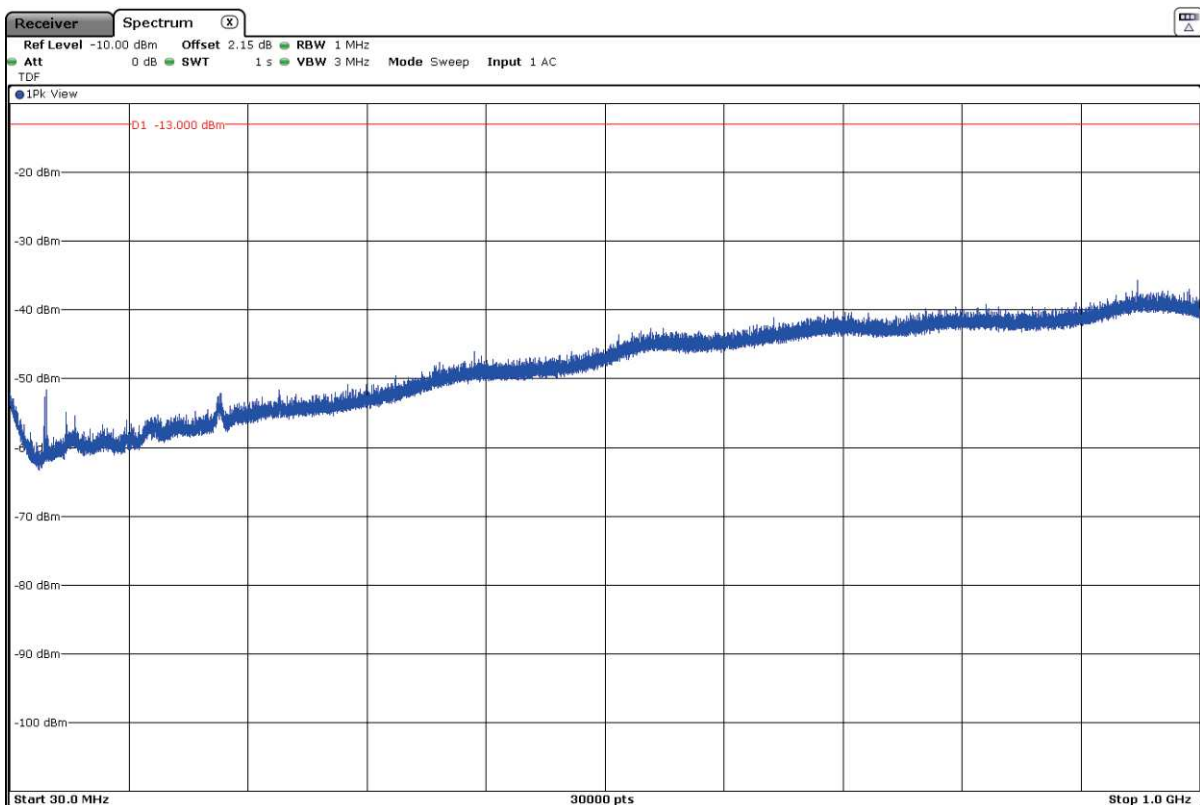
Verdict: PASS

FREQUENCY RANGE 30 MHz - 1 GHz (worst mode):

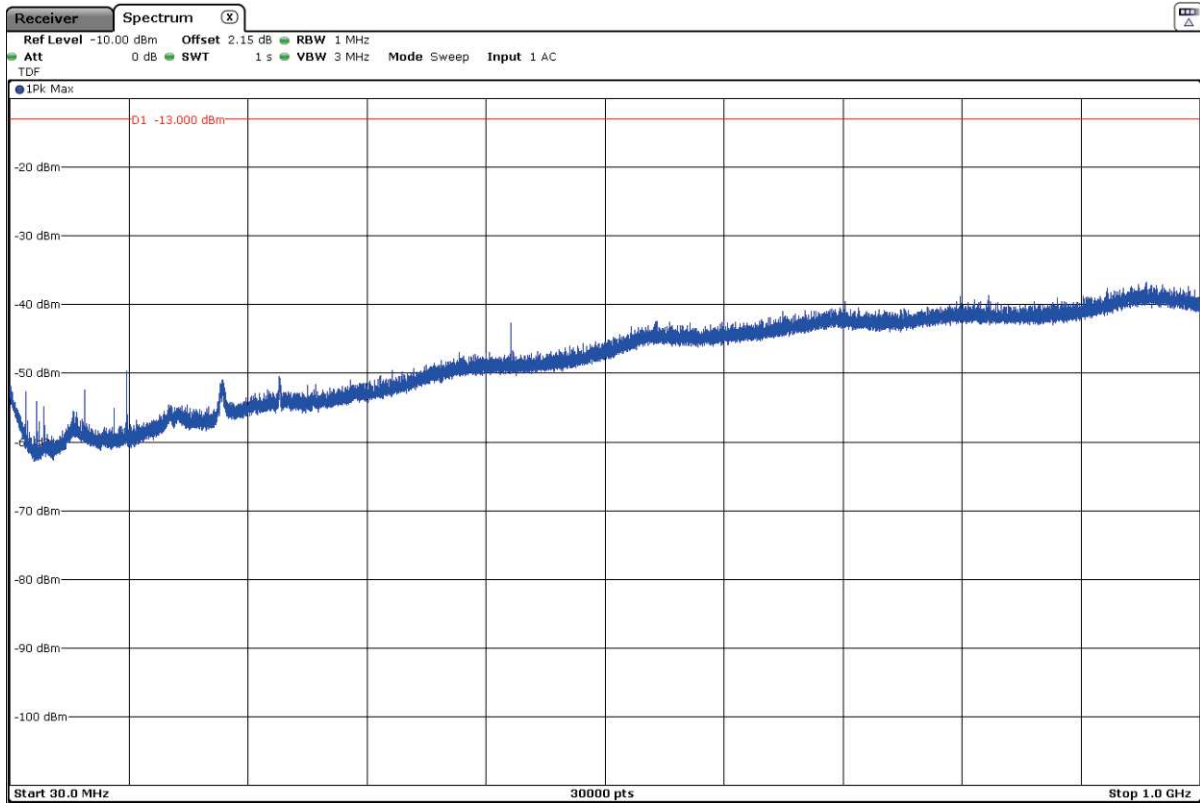
- Low Channel:



- Middle Channel:

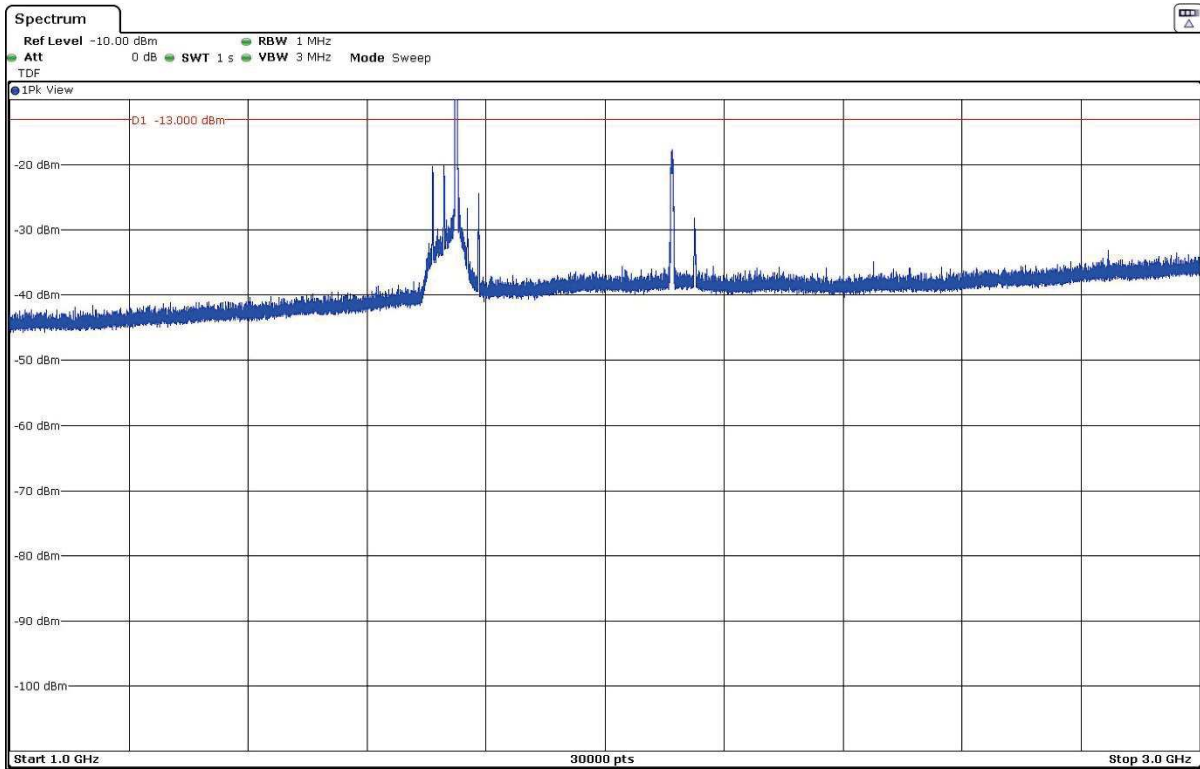


- High Channel:



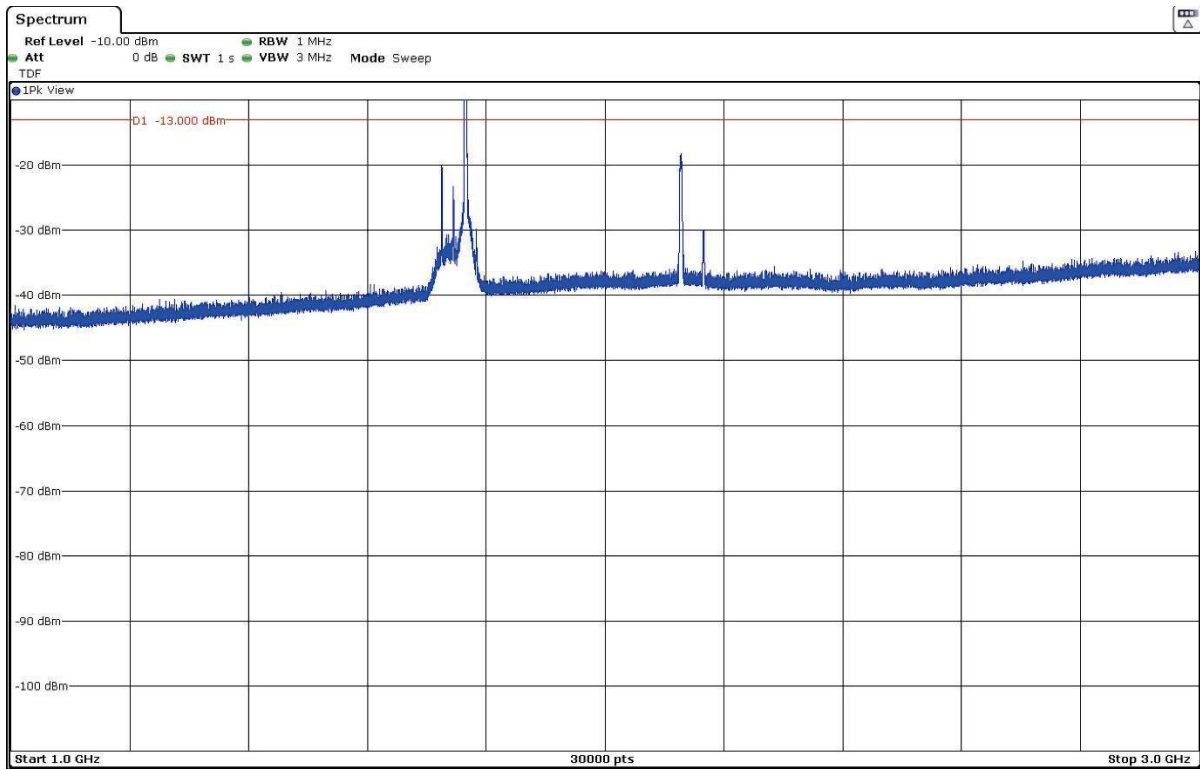
FREQUENCY RANGE 1 - 3 GHz (worst mode):

- Low Channel:



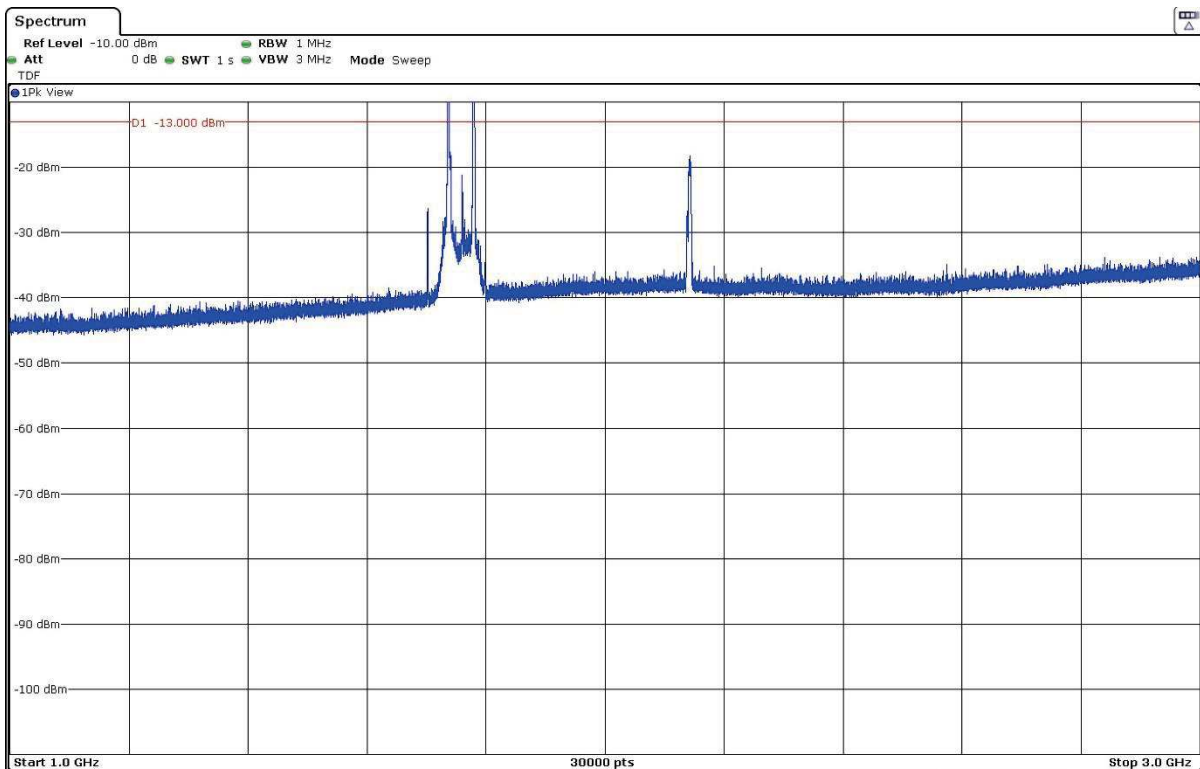
The peaks above the limit are the carrier frequencies. The peaks at 2130MHz and 2151MHz correspond to the downlink signals.

- Middle Channel:



The peaks above the limit are the carrier frequencies. The peaks at 2145MHz and 2166.5MHz correspond to the downlink signals.

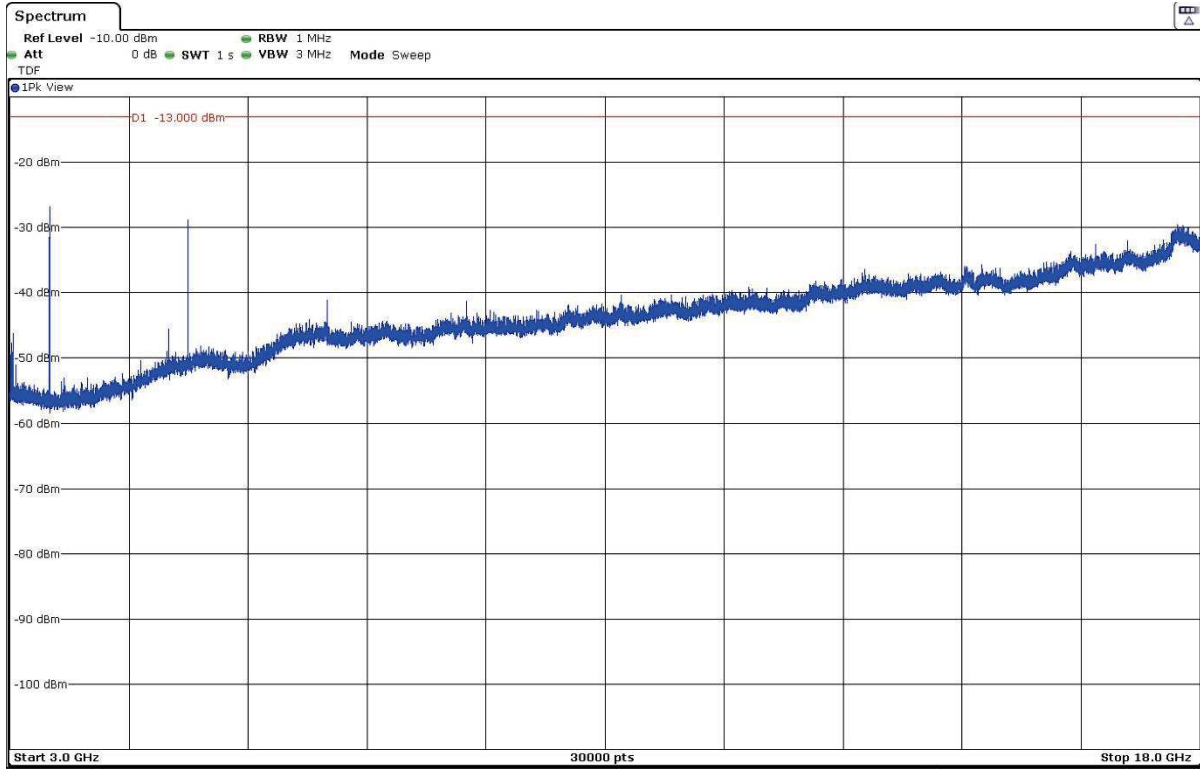
- High Channel:



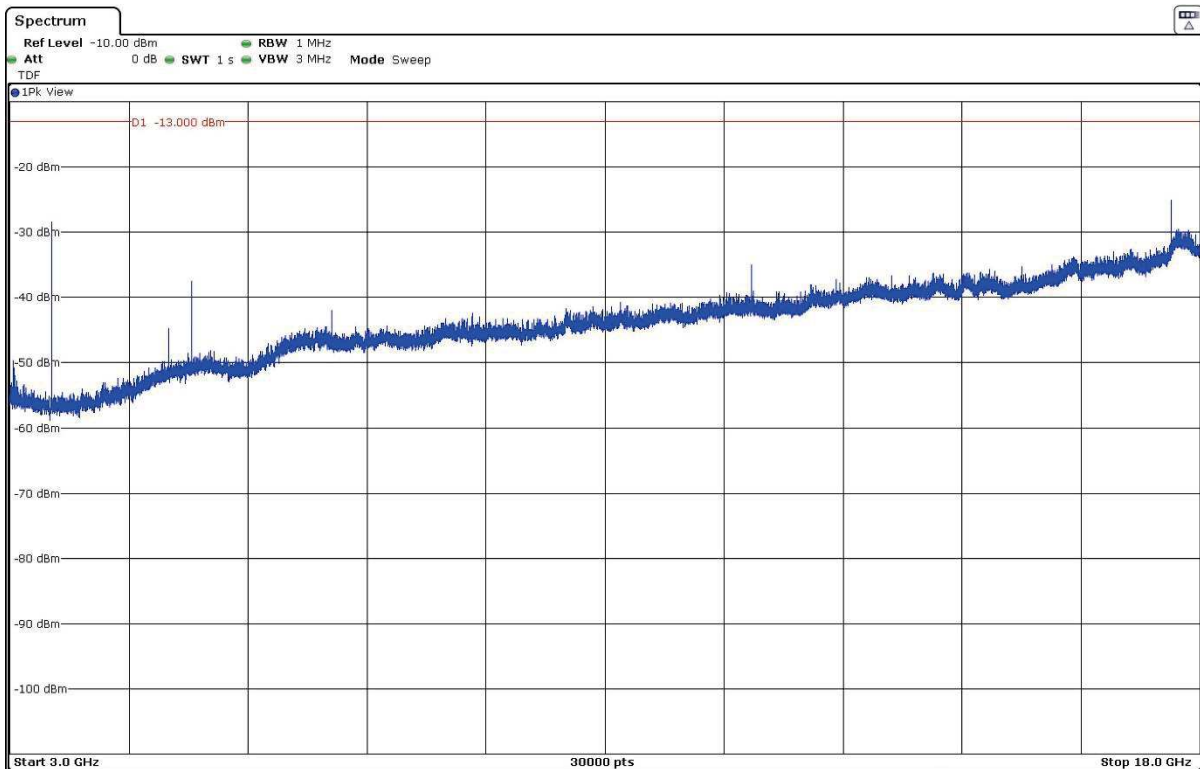
The peaks above the limit are the carrier frequencies. The peak at 2138.5MHz corresponds to the downlink signal.

FREQUENCY RANGE 3 - 18 GHz (worst mode):

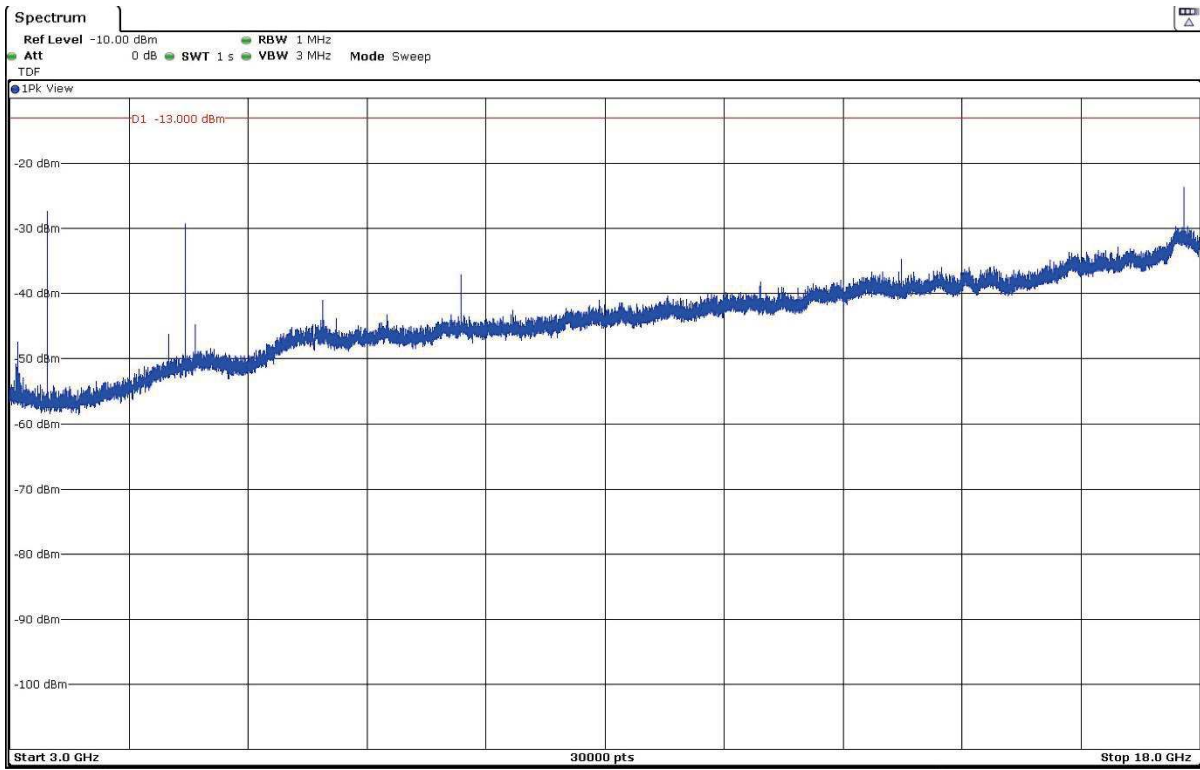
- Low Channel:



- Middle Channel:



- High Channel:



- **n71A + LTE Band 71:**

A preliminary scan determined the worst case:

1) n71A (Module NAD2):

n71A: Pi/2 BPSK, BW=15 MHz, SCS=15 kHz, RB=1, Offset=0.

2) LTE Band 71 (Module NAD1):

71: QPSK, BW=10 MHz, RB=1, Offset=0.

- LOW CHANNEL:

Frequency range 30 MHz - 1 GHz:

No spurious frequencies at less than 20 dB below the limit.

Frequency range 1 - 8 GHz:

No spurious frequencies at less than 20 dB below the limit.

- MIDDLE CHANNEL:

Frequency range 30 MHz - 1 GHz:

No spurious frequencies at less than 20 dB below the limit.

Frequency range 1 - 8 GHz:

No spurious frequencies at less than 20 dB below the limit.

- HIGH CHANNEL:

Frequency range 30 MHz - 1 GHz:

No spurious frequencies at less than 20 dB below the limit.

Frequency range 1 - 8 GHz:

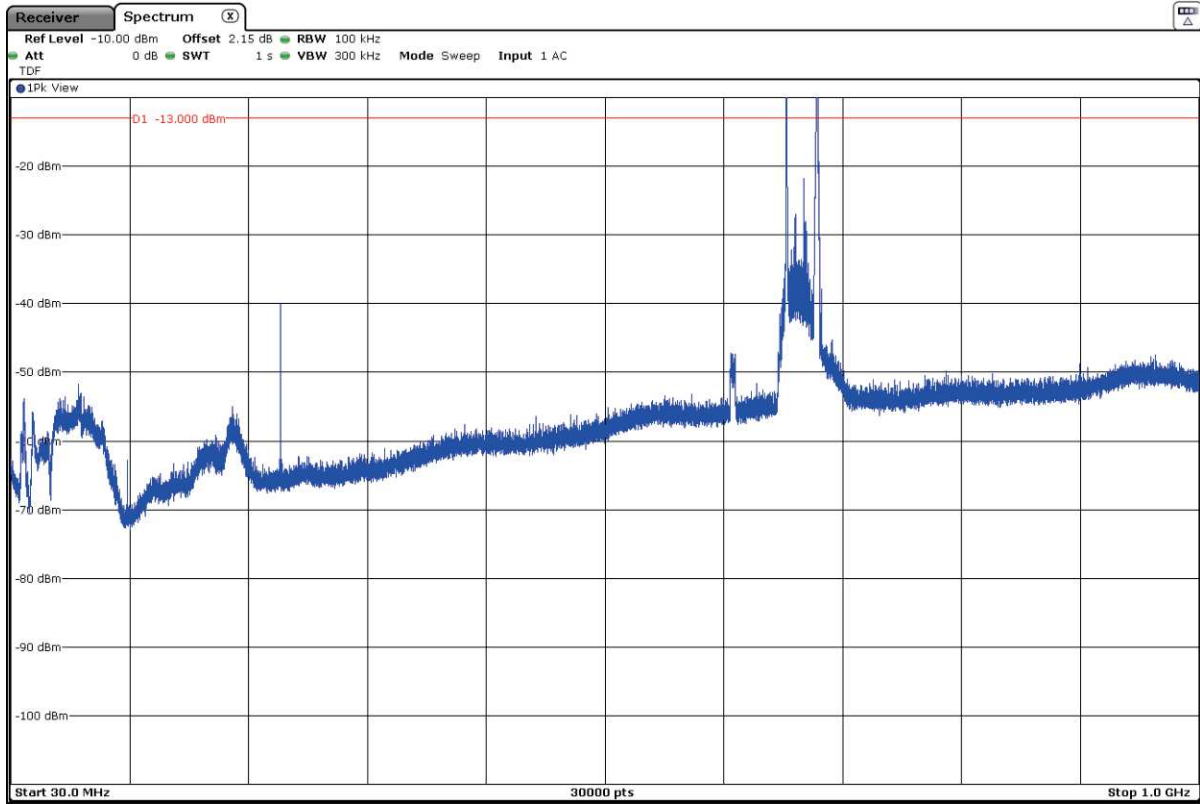
No spurious frequencies at less than 20 dB below the limit.

Measurement Uncertainty (dB)	<± 5.08 for f < 1 GHz <± 5.13 for f ≥ 1 GHz up to 8 GHz
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Verdict: PASS

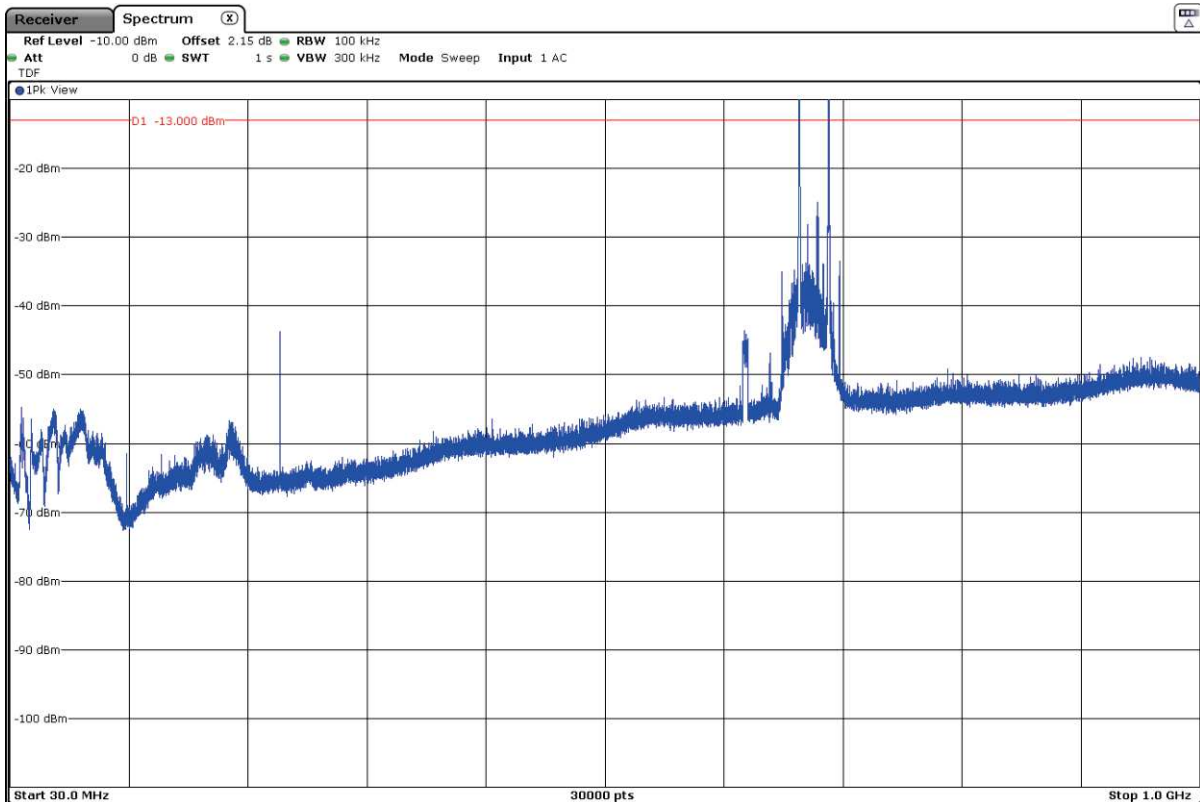
FREQUENCY RANGE 30 MHz - 1 GHz (worst mode):

- Low Channel:



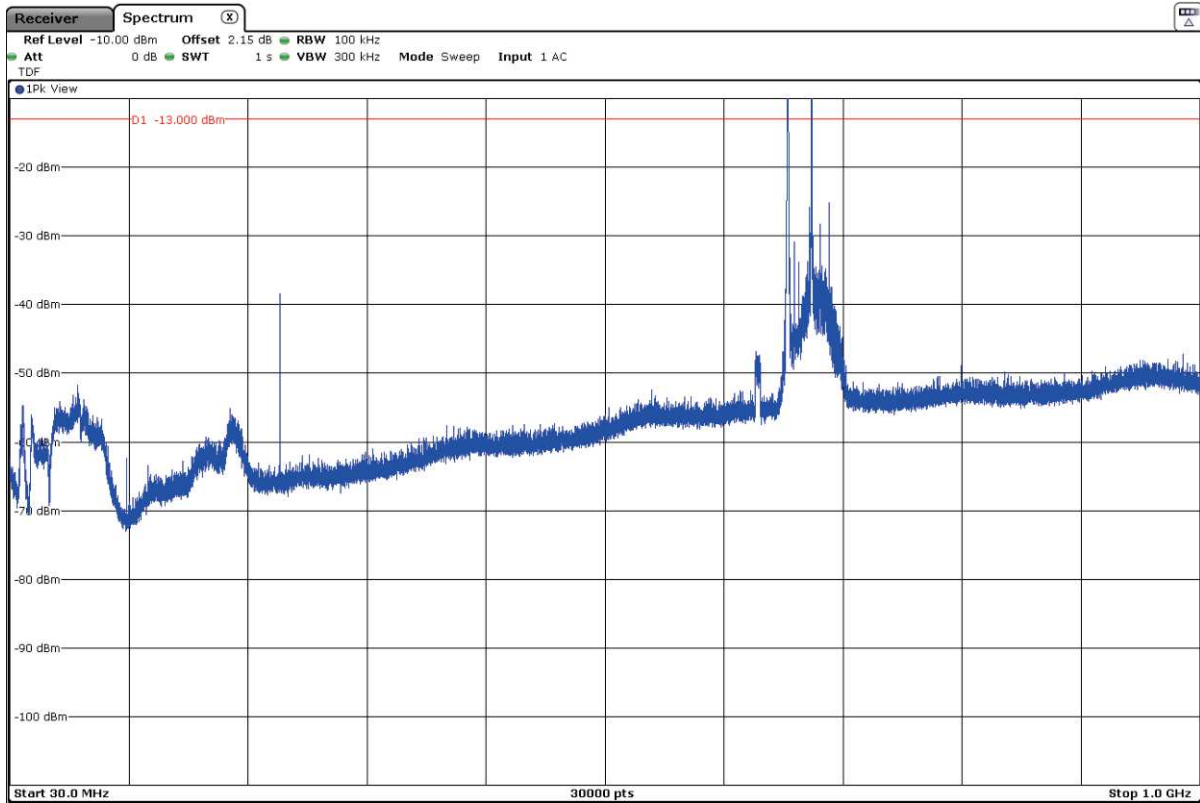
The peaks above the limit are the carrier frequencies and the downlink signals.

- Middle Channel:



The peaks above the limit are the carrier frequencies and the downlink signals.

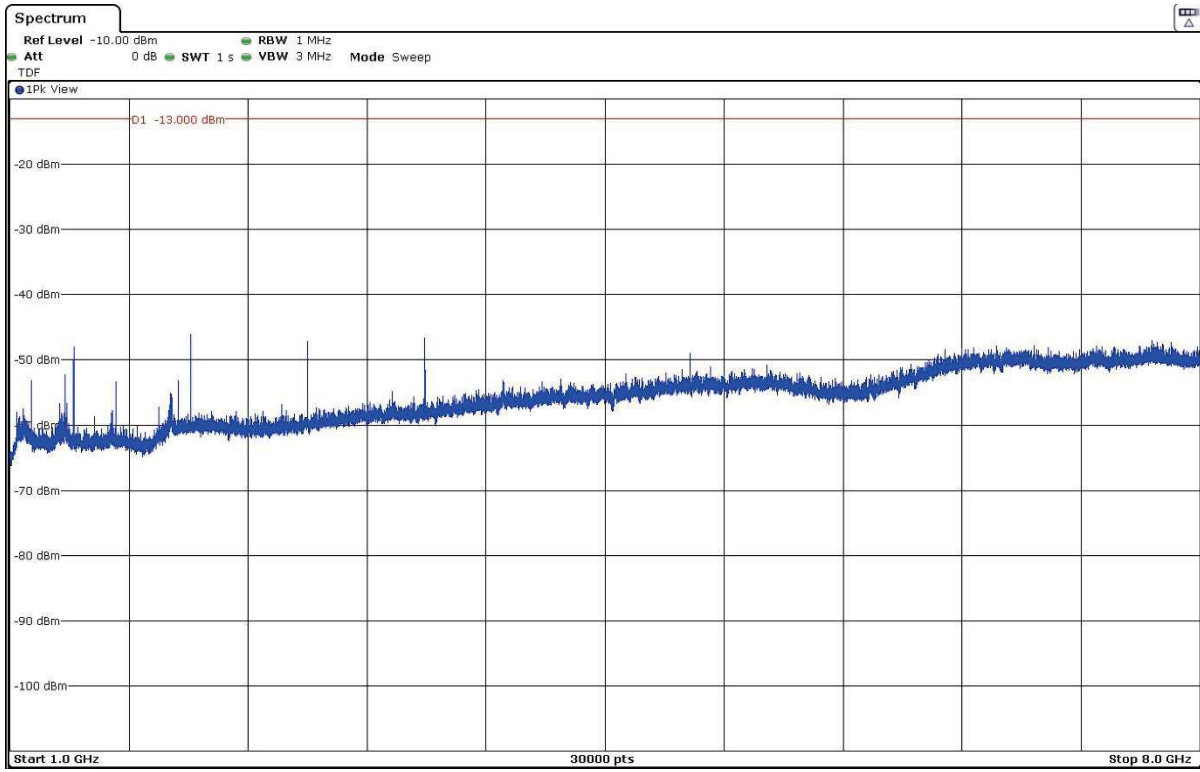
- High Channel:



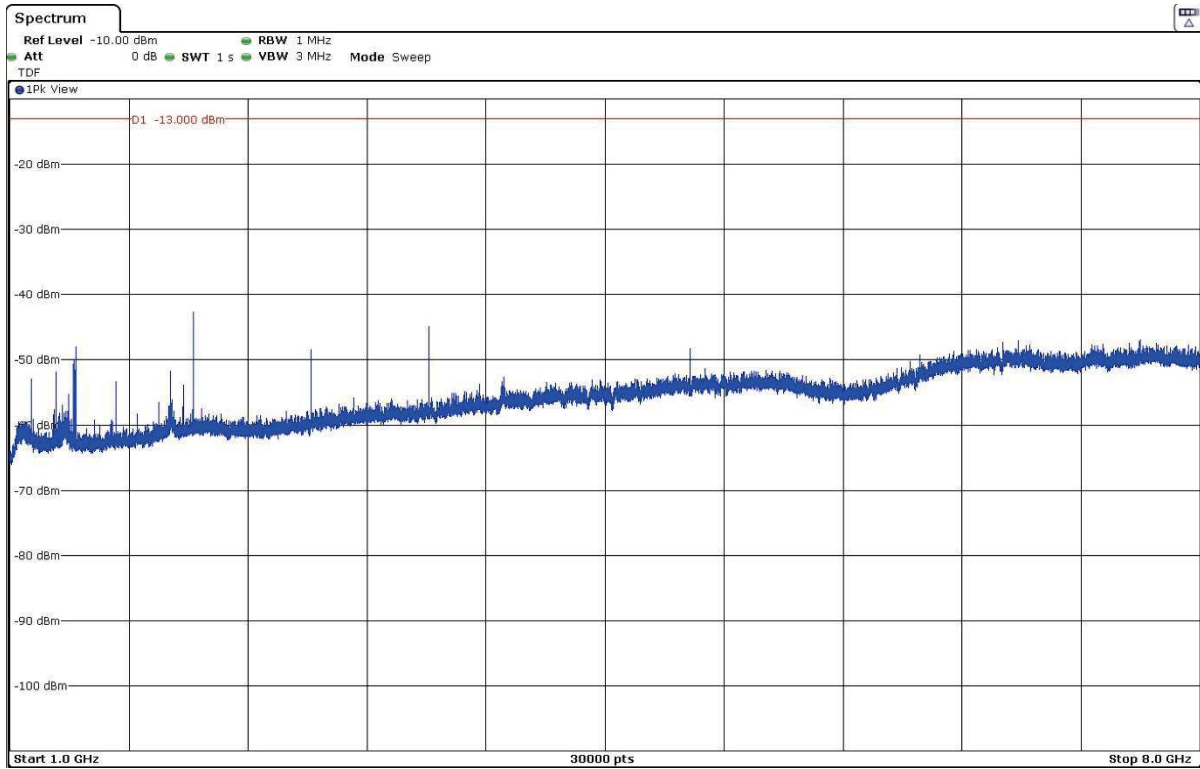
The peaks above the limit are the carrier frequencies and the downlink signals.

FREQUENCY RANGE 1 - 8 GHz (worst mode):

- Low Channel:



- Middle Channel:



- High Channel:

