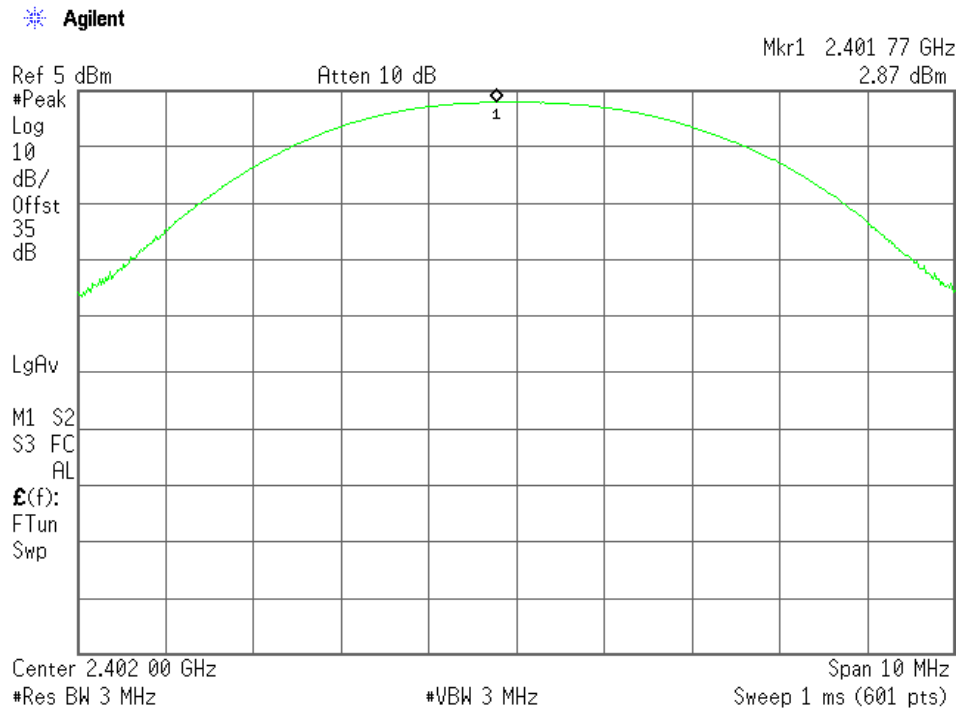


PEAK OUTPUT POWER (RADIATED).

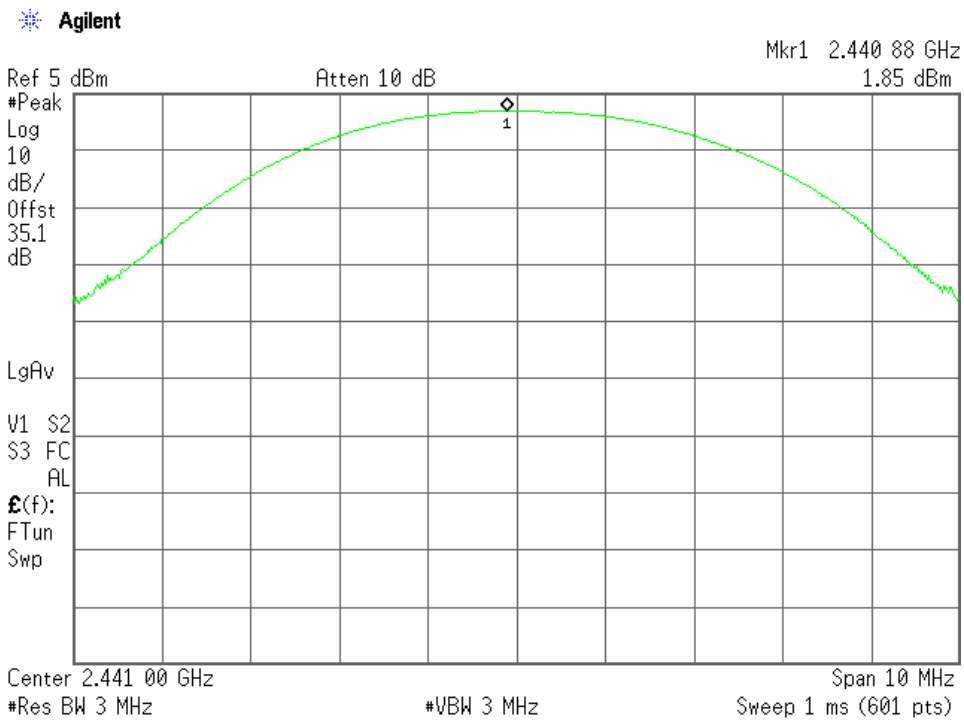
Modulation: GFSK

Lowest Channel: 2402 MHz.



Modulation: GFSK

Middle Channel: 2441 MHz.



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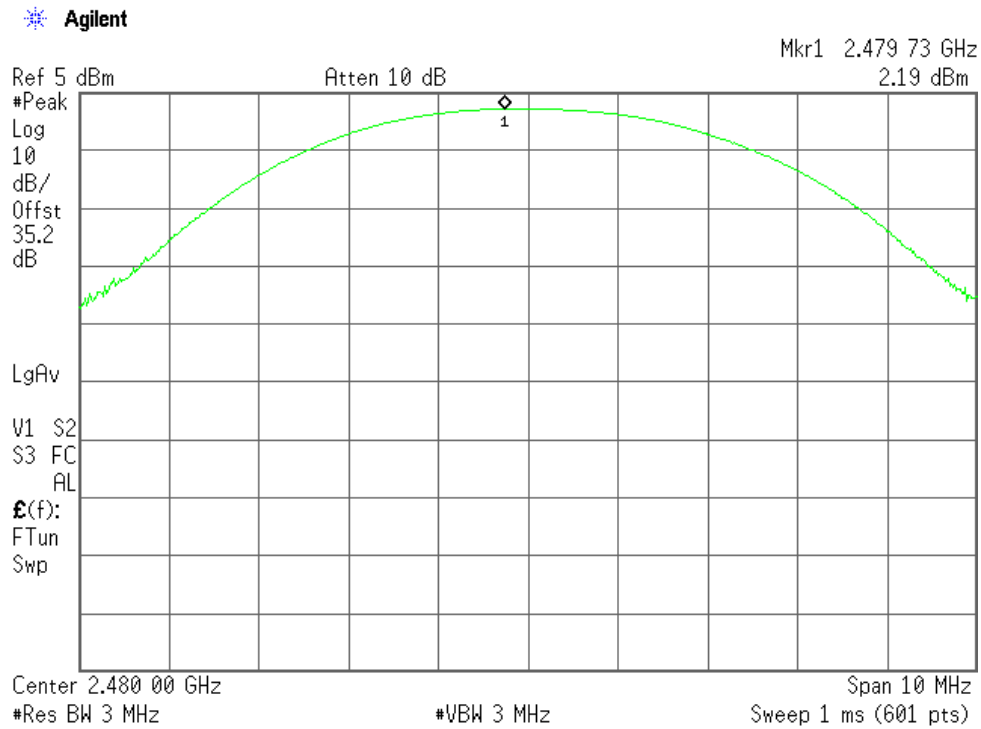
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PEAK OUTPUT POWER (RADIATED).

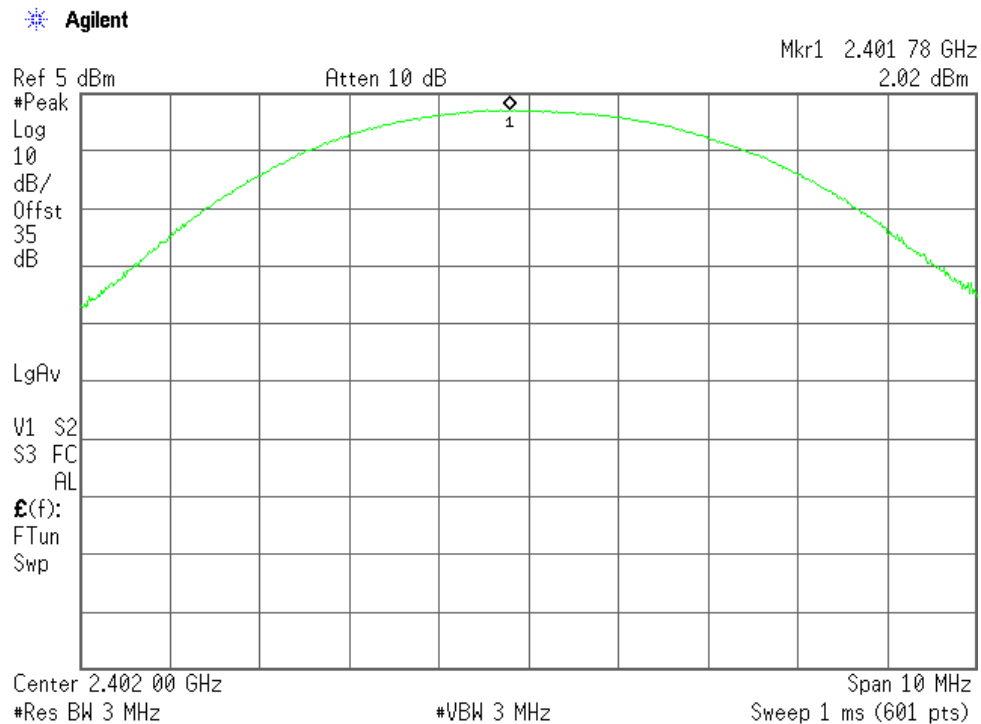
Modulation: GFSK

Highest Channel: 2480 MHz.



Modulation: $\Pi/4$ -DQPSK

Lowest Channel: 2402 MHz.



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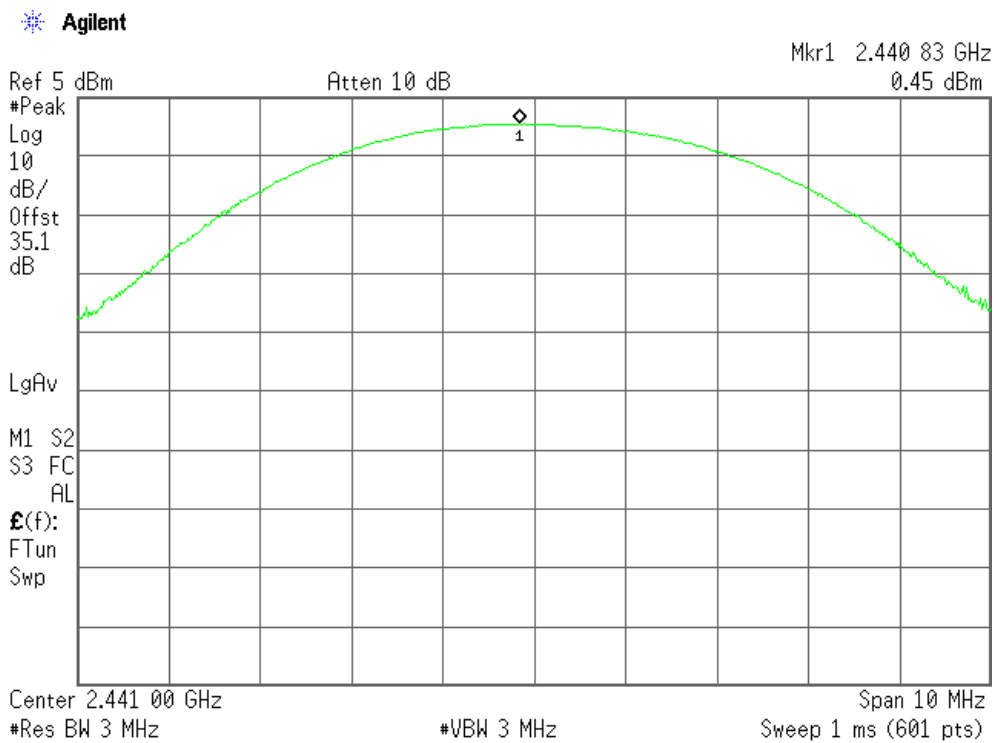
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PEAK OUTPUT POWER (RADIATED).

Modulation: $\Pi/4$ -DQPSK

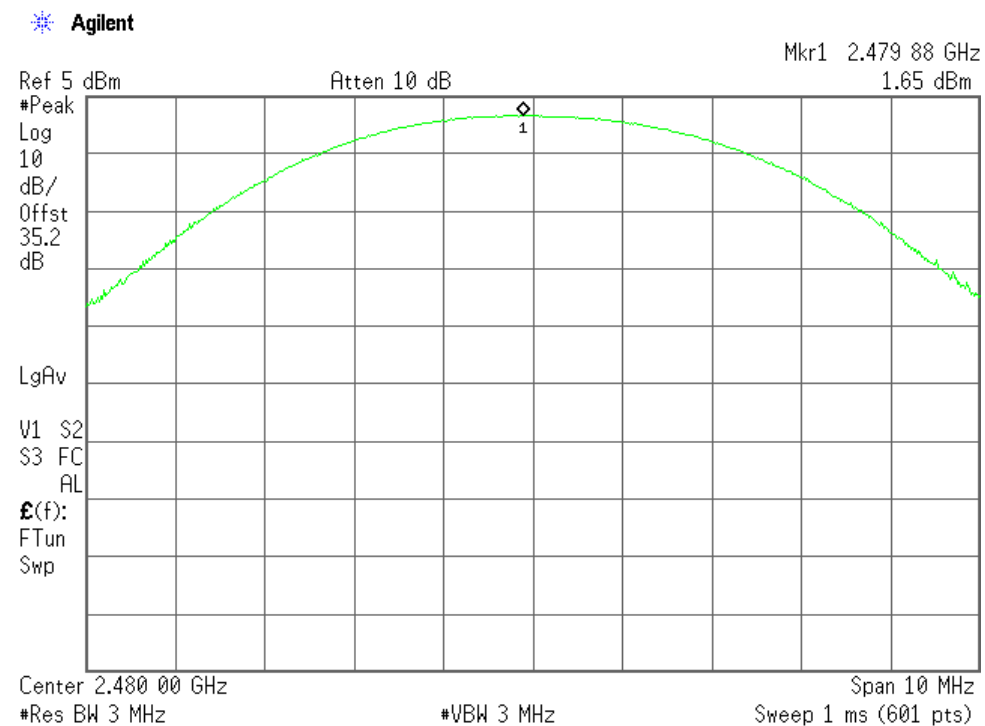
Middle Channel: 2441 MHz.



PEAK OUTPUT POWER (RADIATED).

Modulation: $\Pi/4$ -DQPSK

Highest Channel: 2480 MHz.



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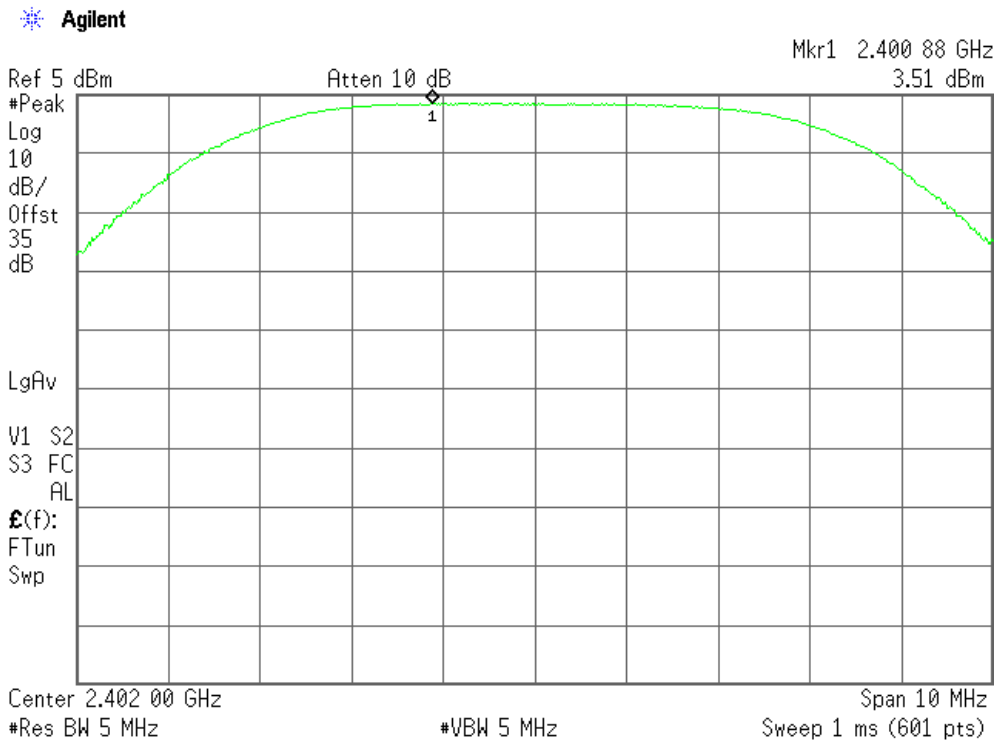
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PEAK OUTPUT POWER (RADIATED).

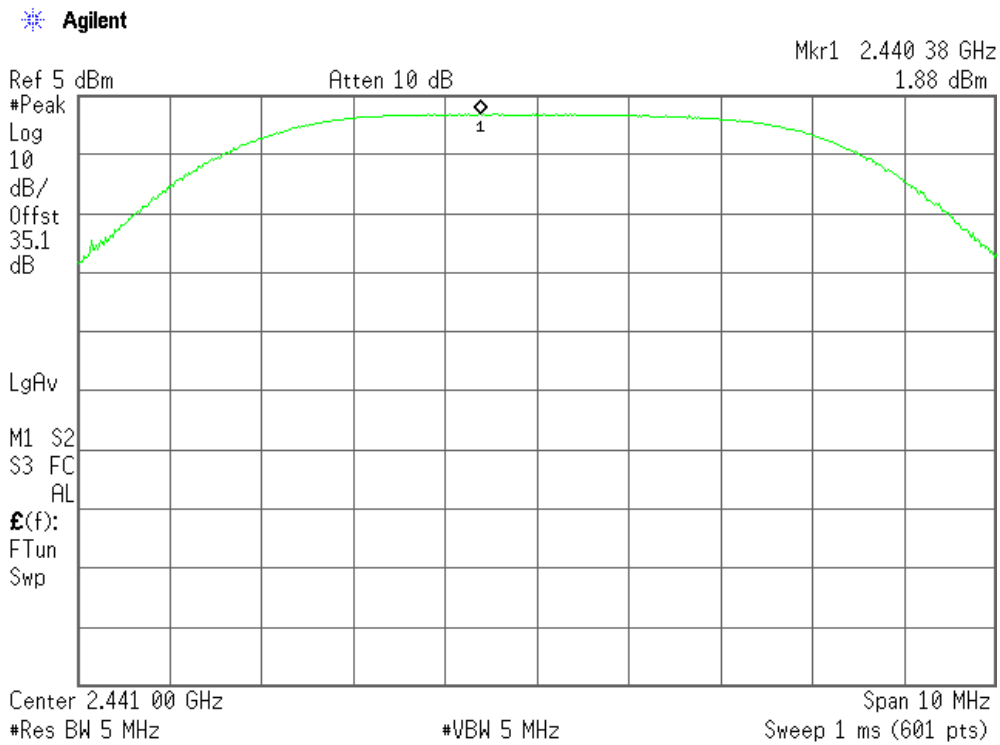
Modulation: 8-DPSK

Lowest Channel: 2402 MHz.



Modulation: 8-DPSK

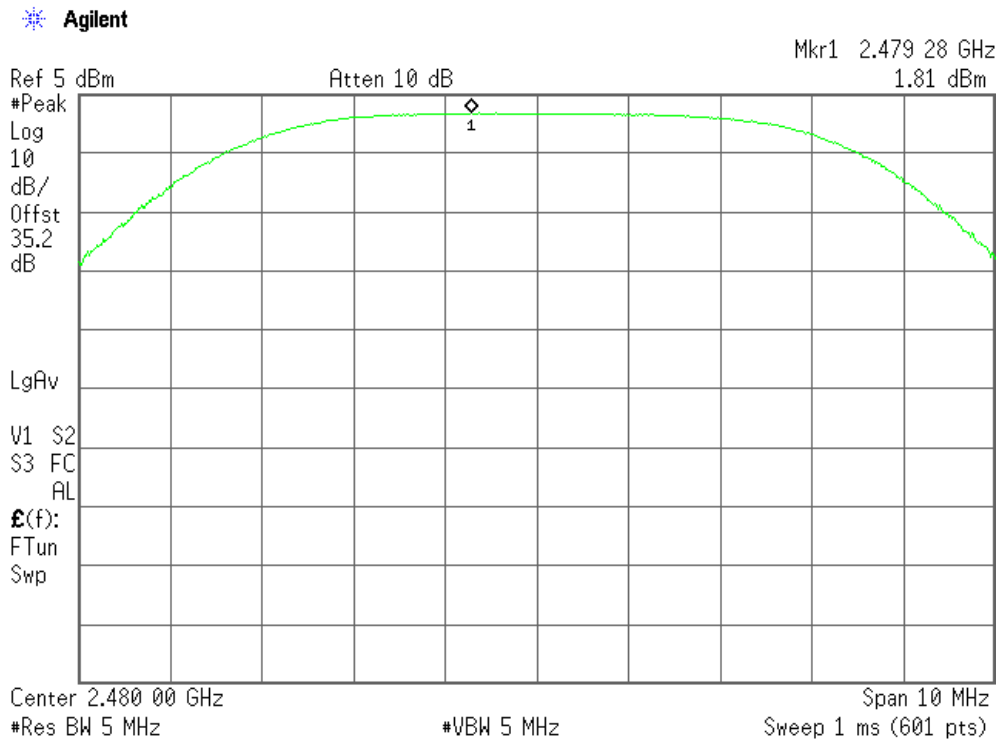
Middle Channel: 2441 MHz.



PEAK OUTPUT POWER (RADIATED).

Modulation: 8-DPSK

Highest Channel: 2480 MHz.



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Section 15.247 Subclause (d). Band-edge of conducted emissions (Transmitter)

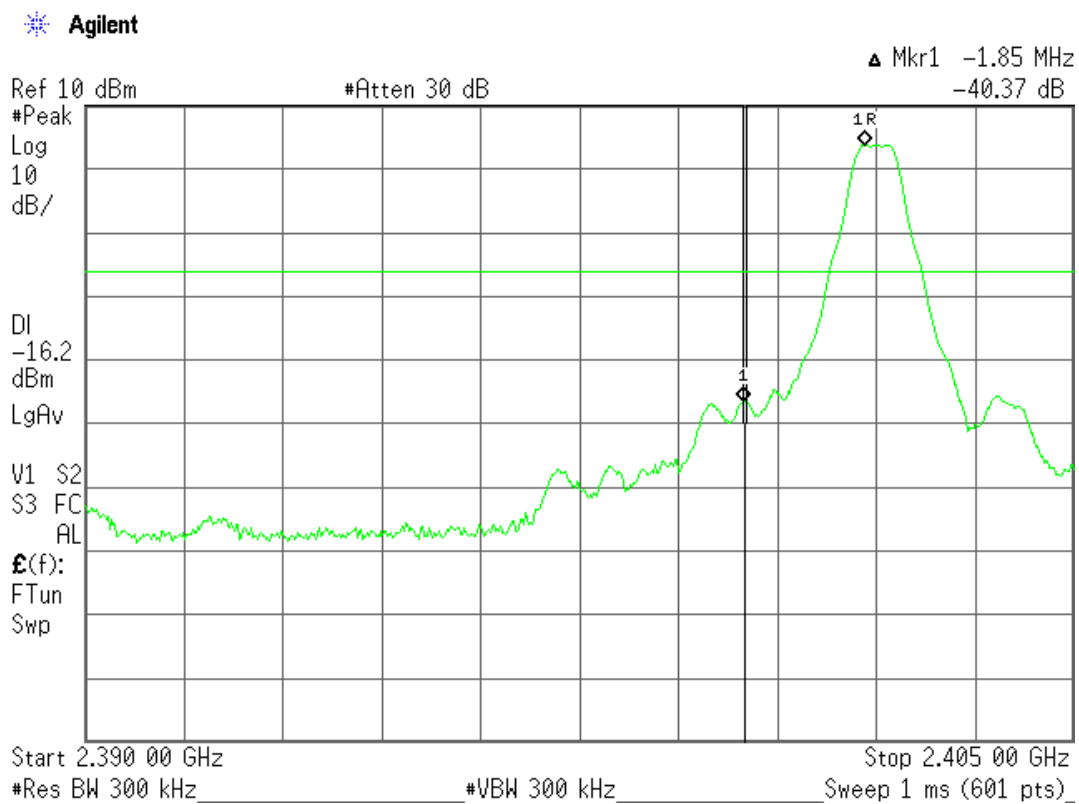
SPECIFICATION

Emissions outside the frequency band in which the intentional radiator is operating shall be at least 20dB below the highest level of the desired power.

RESULTS:

Modulation: GFSK

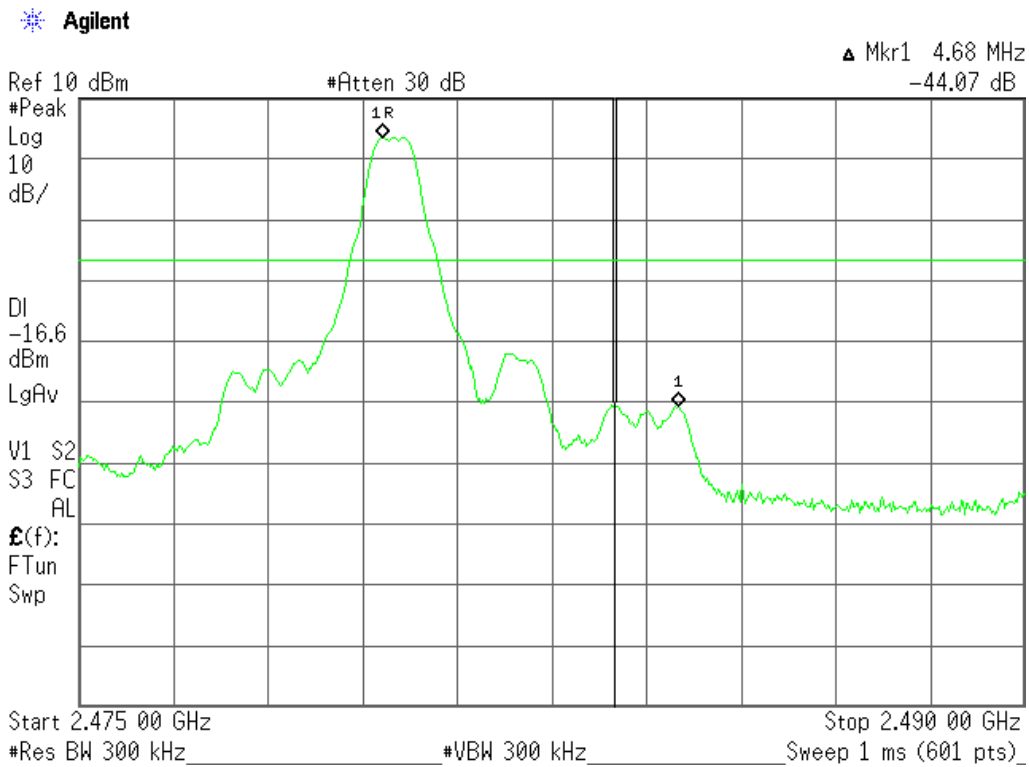
1. LOW FREQUENCY SECTION 2402 MHz (HOPPING OFF). See next plot.



Verdict: PASS

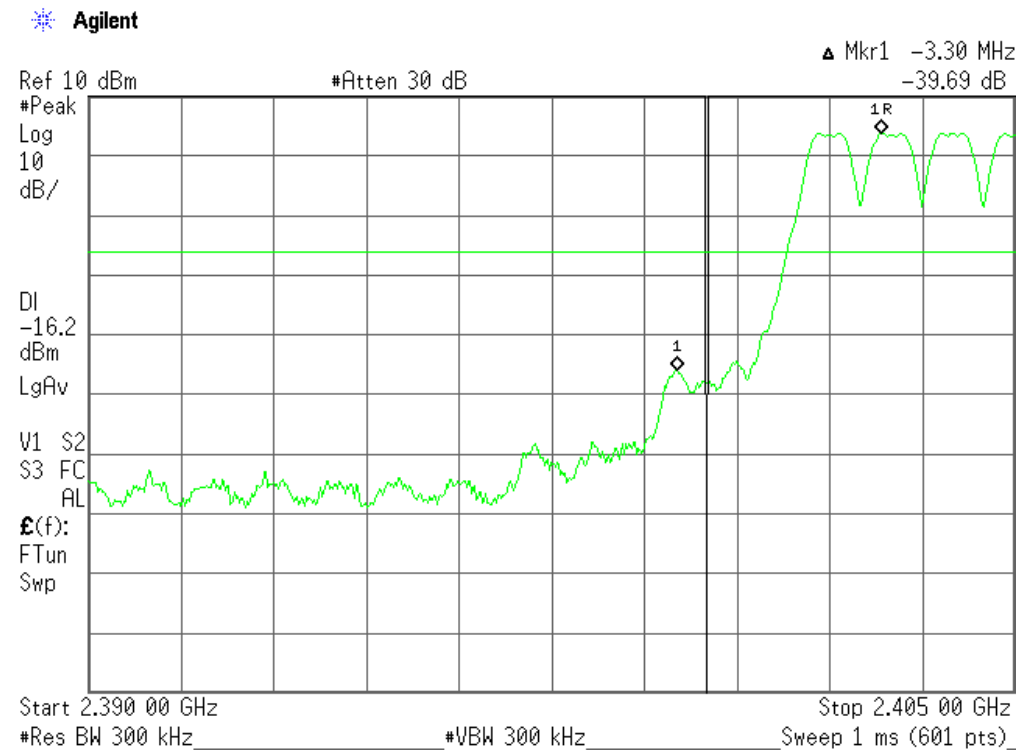
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2. HIGH FREQUENCY SECTION 2480 MHz (HOPPING OFF). See next plot.



Verdict: PASS

3. LOW FREQUENCY SECTION (HOPPING ON). See next plot.



Verdict: PASS

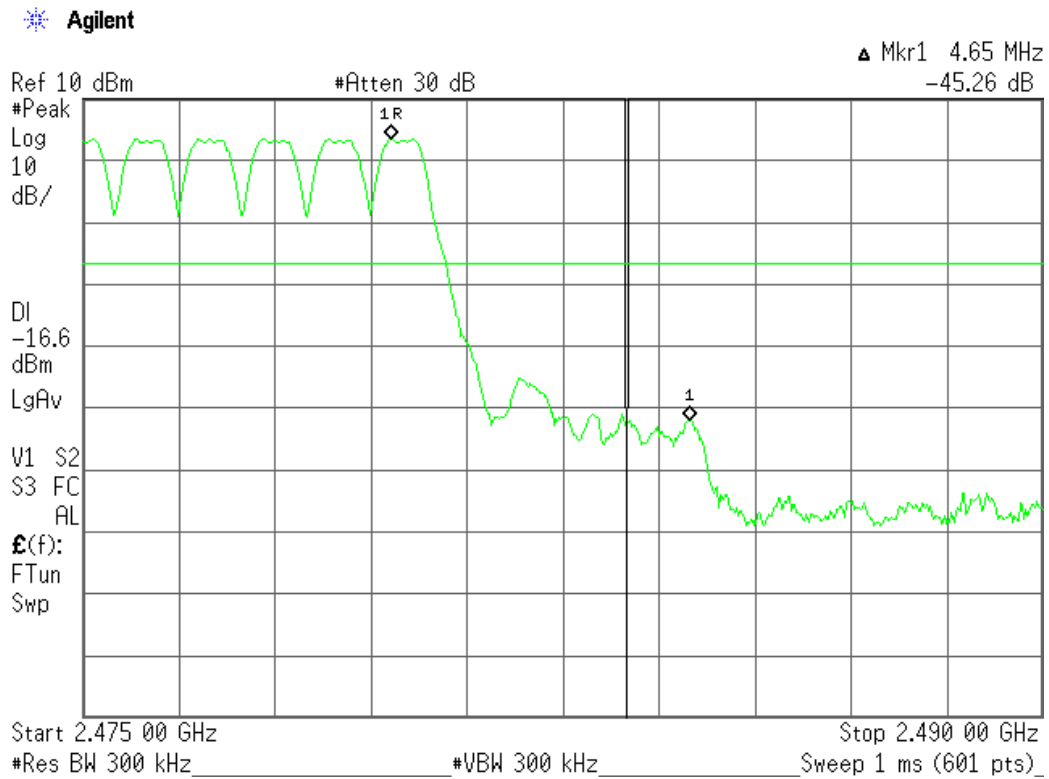
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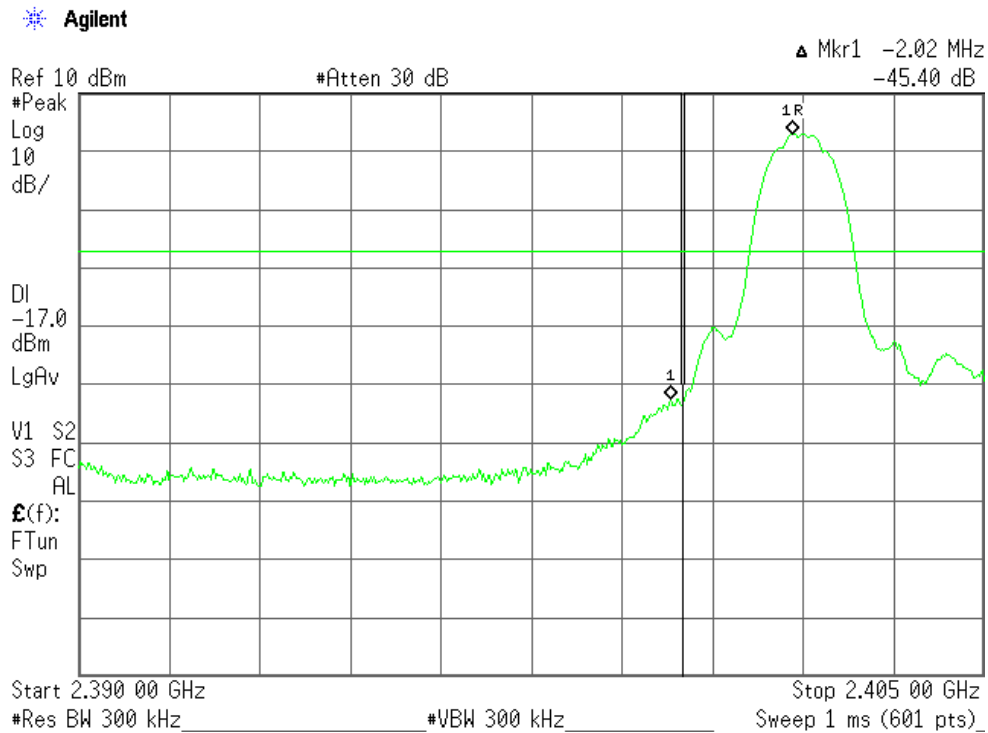
4. HIGH FREQUENCY SECTION (HOPPING ON). See next plot.



Verdict: PASS

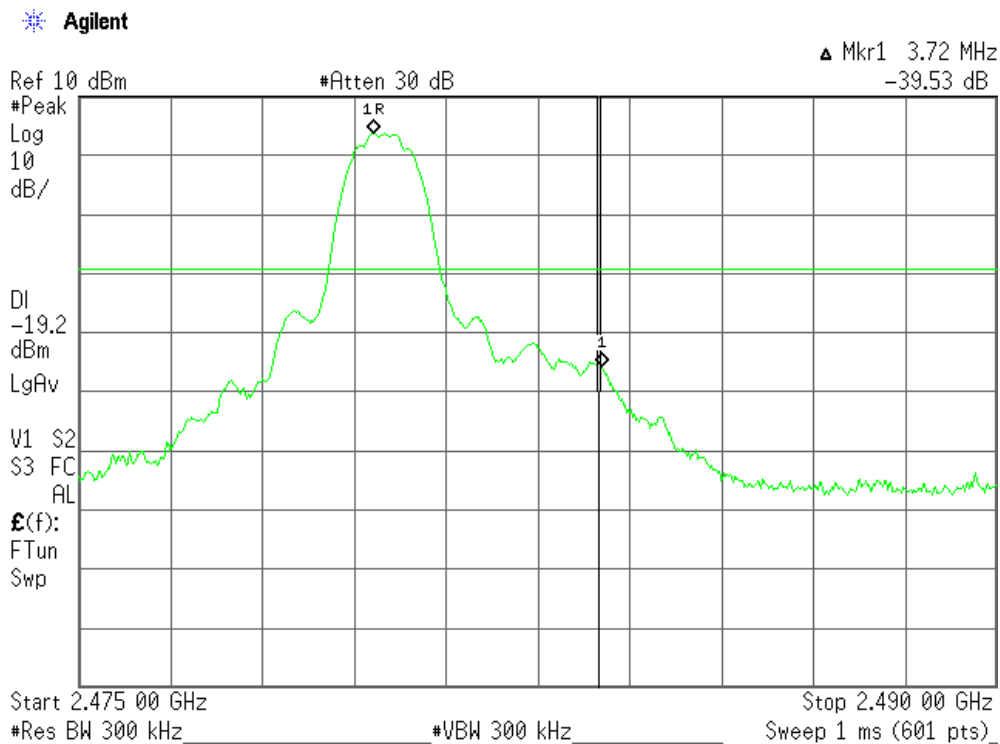
Modulation: $\Pi/4$ -DQPSK

1. LOW FREQUENCY SECTION 2402 MHz (HOPPING OFF). See next plot.



Verdict: PASS

2. HIGH FREQUENCY SECTION 2480 MHz (HOPPING OFF). See next plot.



Verdict: PASS

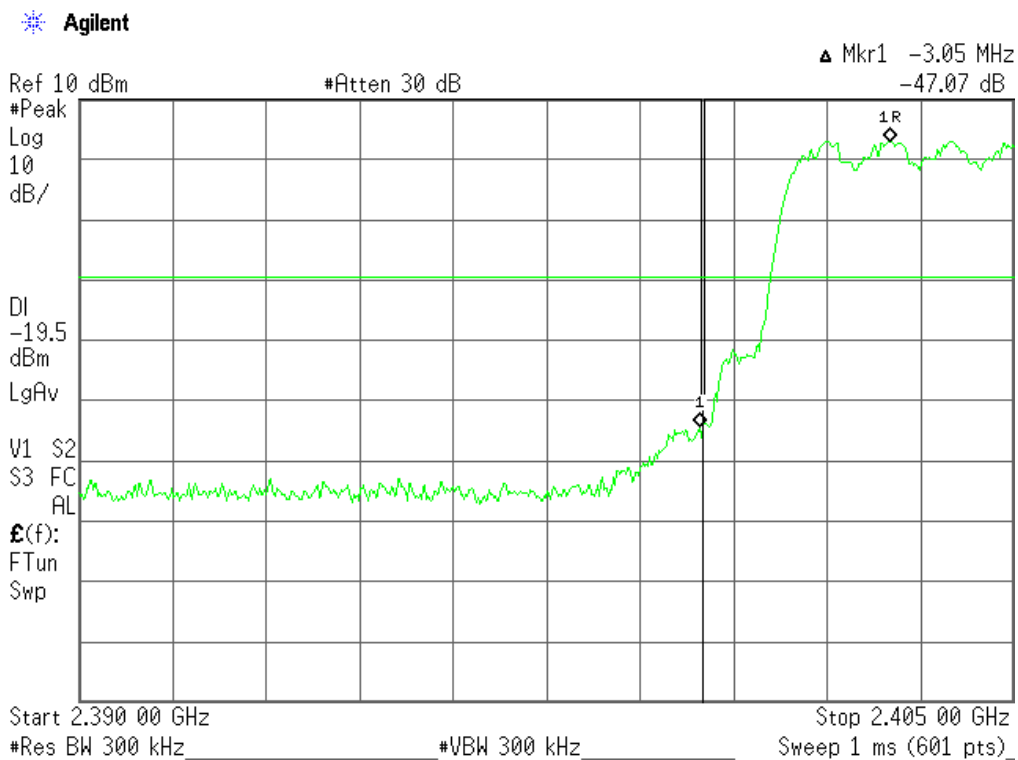
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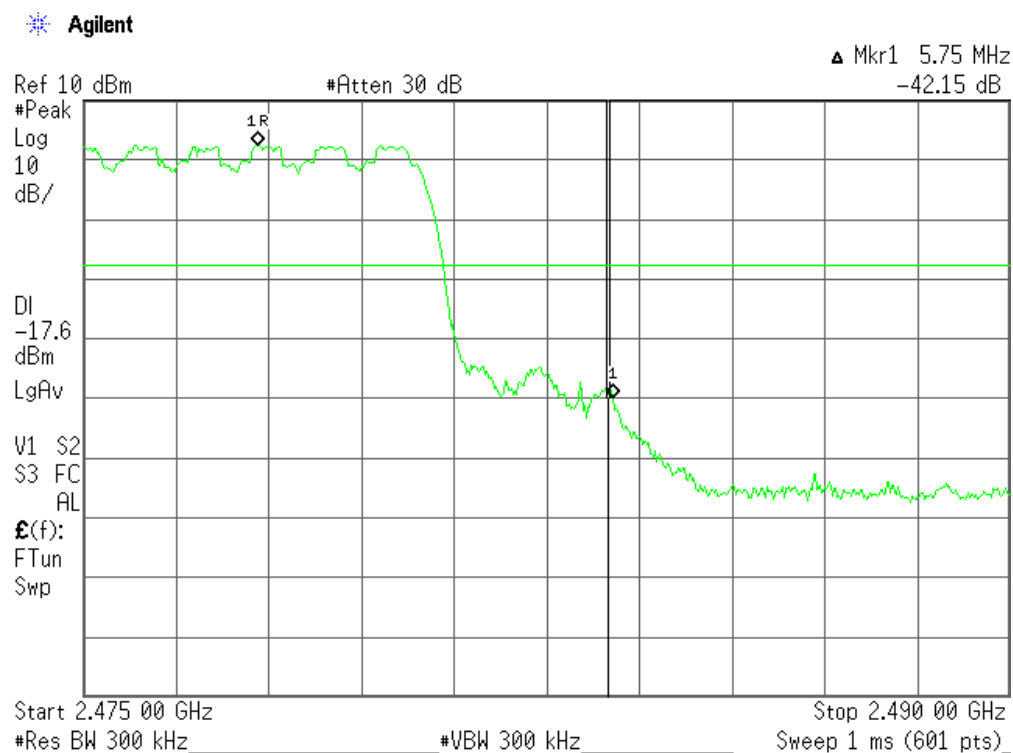
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3. LOW FREQUENCY SECTION (HOPPING ON). See next plot.



Verdict: PASS

4. HIGH FREQUENCY SECTION (HOPPING ON). See next plot.

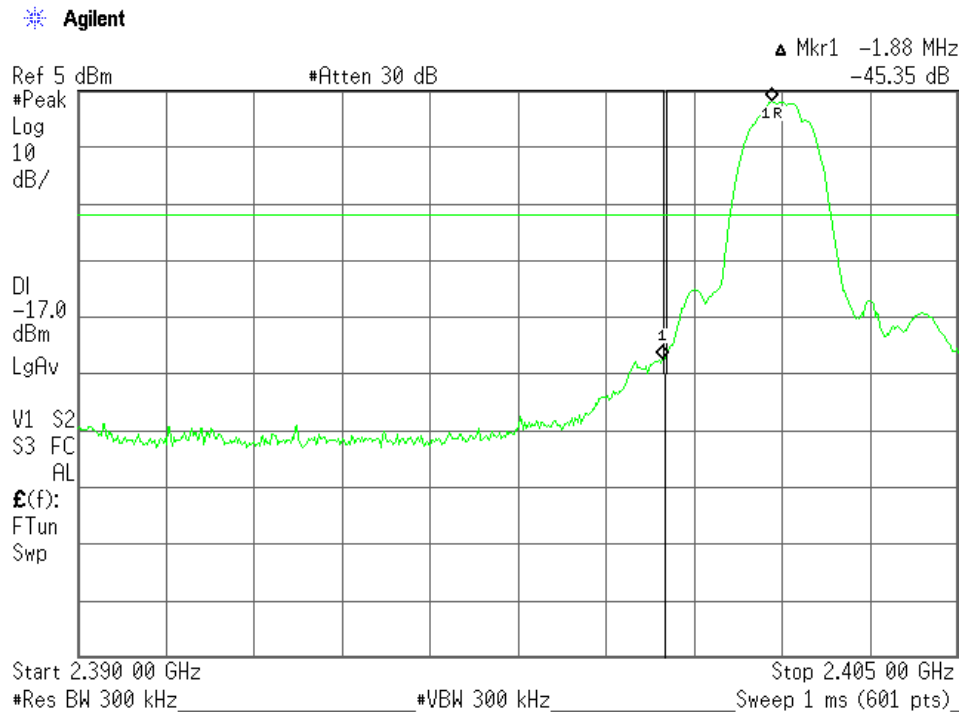


Verdict: PASS

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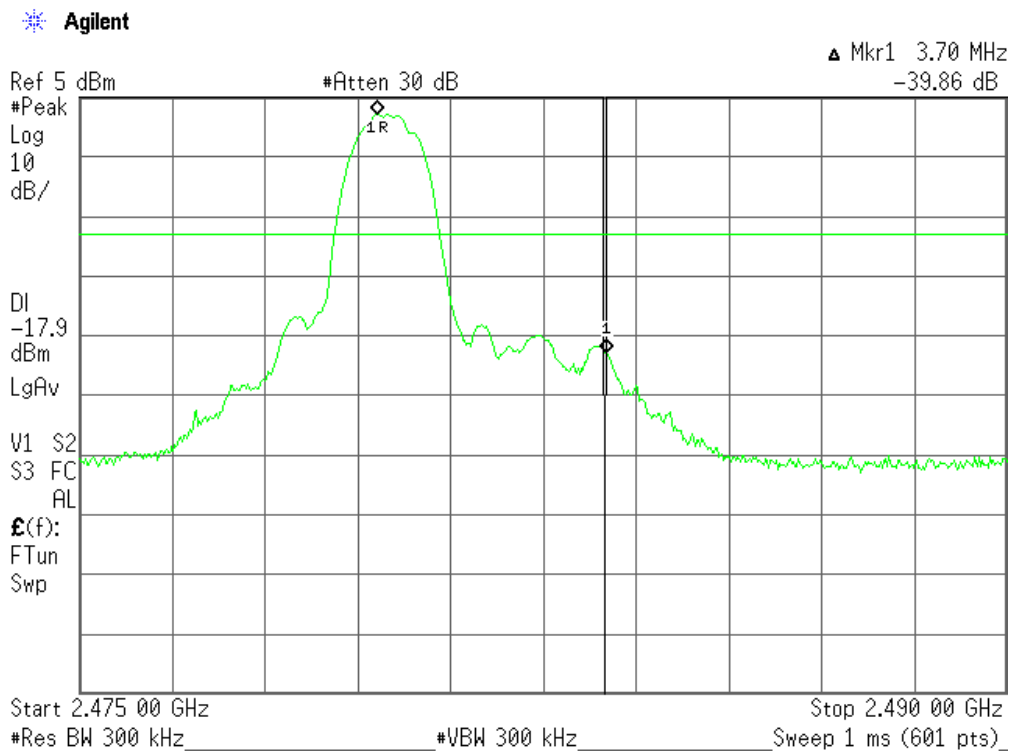
Modulation: 8-DPSK

1. LOW FREQUENCY SECTION 2402 MHz (HOPPING OFF). See next plot.



Verdict: PASS

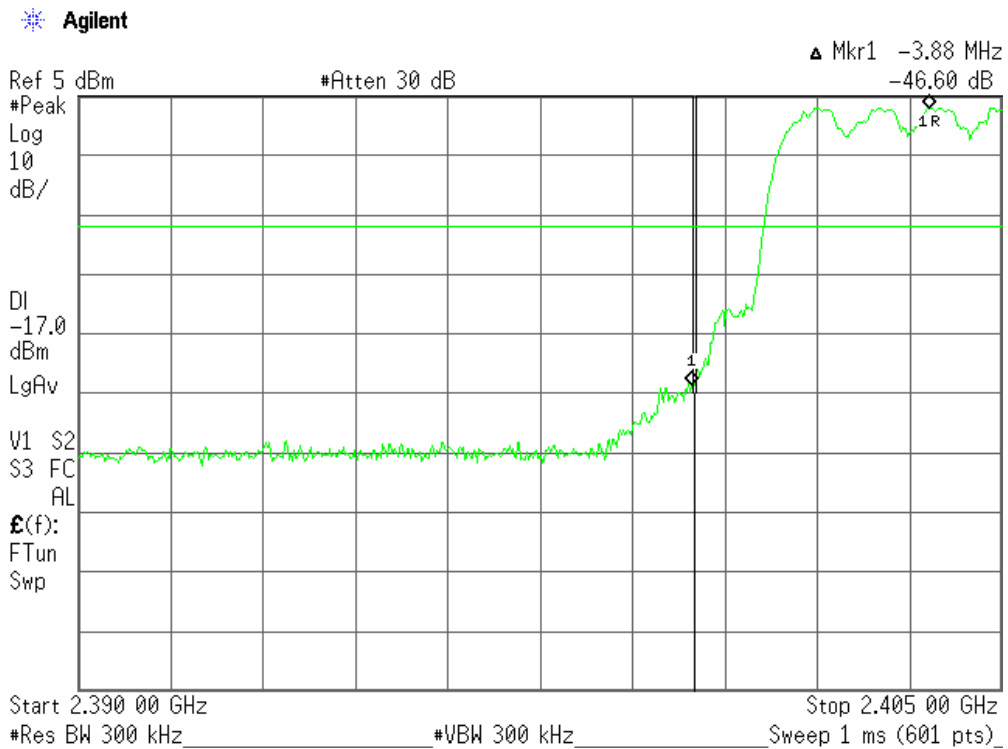
2. HIGH FREQUENCY SECTION 2480 MHz (HOPPING OFF). See next plot.



Verdict: PASS

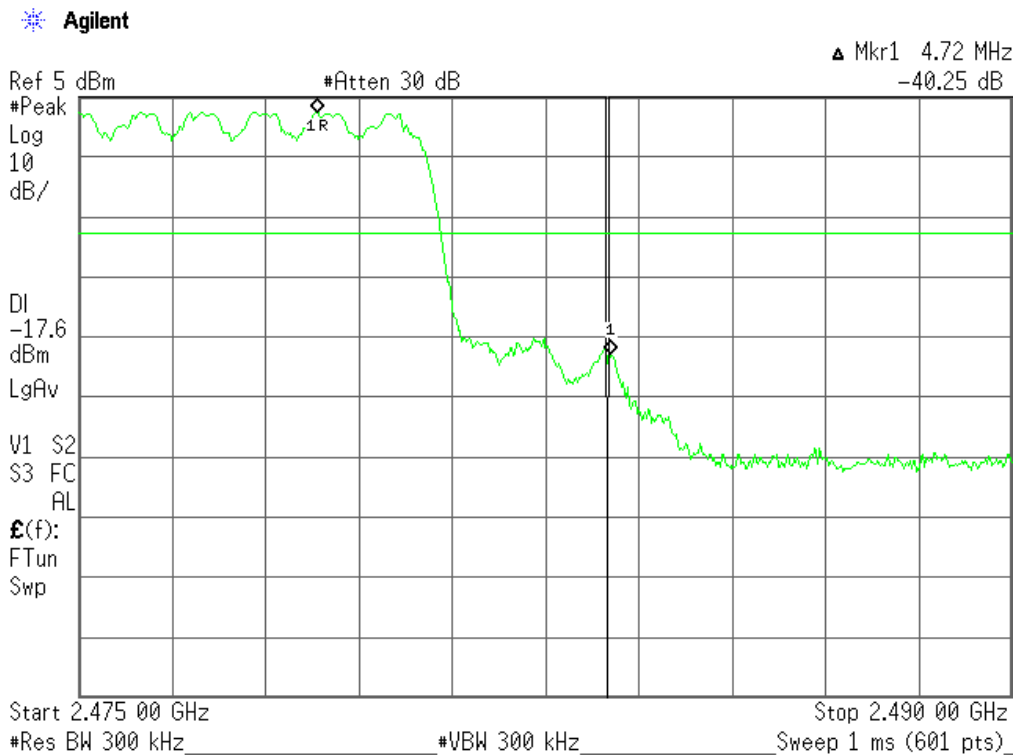
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3. LOW FREQUENCY SECTION (HOPPING ON). See next plot.



Verdict: PASS

4. HIGH FREQUENCY SECTION (HOPPING ON). See next plot.



Verdict: PASS

Section 15.247 Subclause (d). Emission limitations conducted (Transmitter)

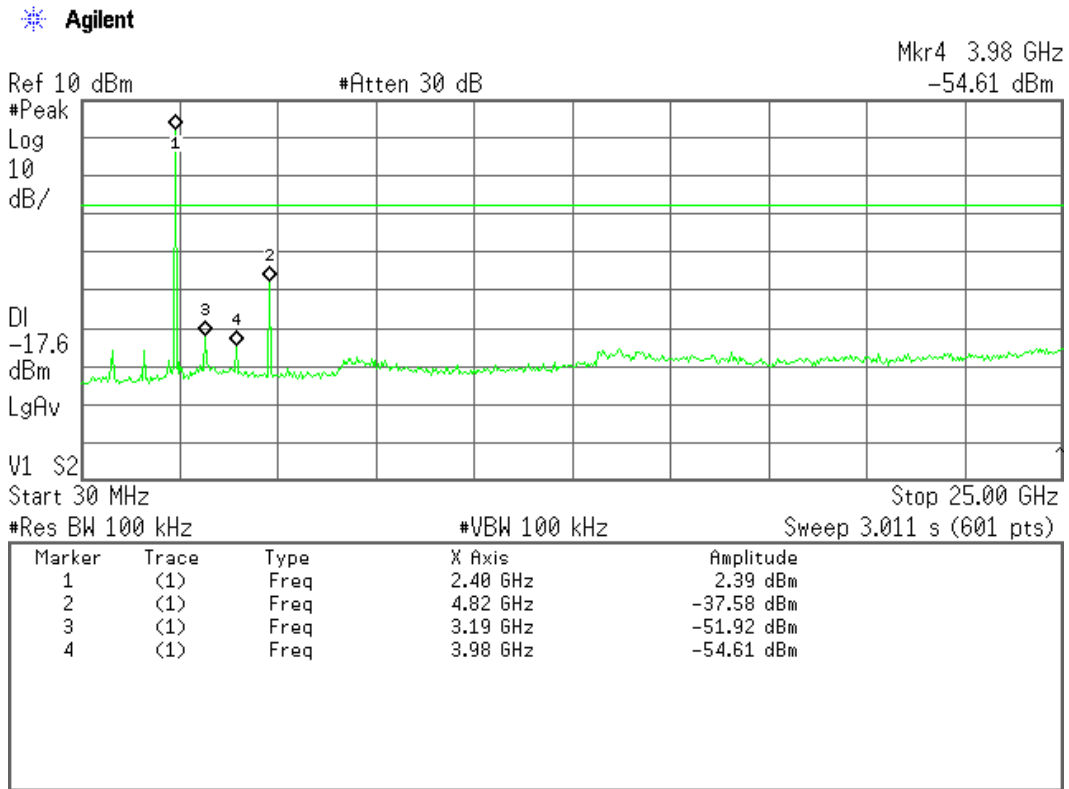
SPECIFICATION

In any 100 kHz bandwidths outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

RESULTS:

Modulation: GFSK

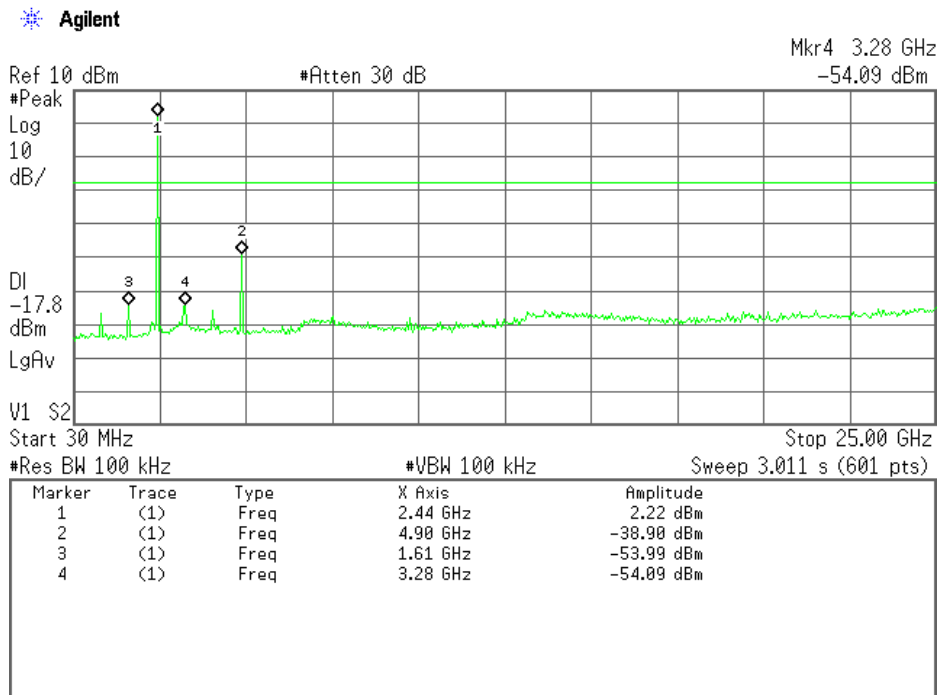
1. LOWEST CHANNEL (2402 MHz): 30 MHz-25 GHz (see next plot).



Note: The peak above the limit is the carrier frequency.

Verdict: PASS

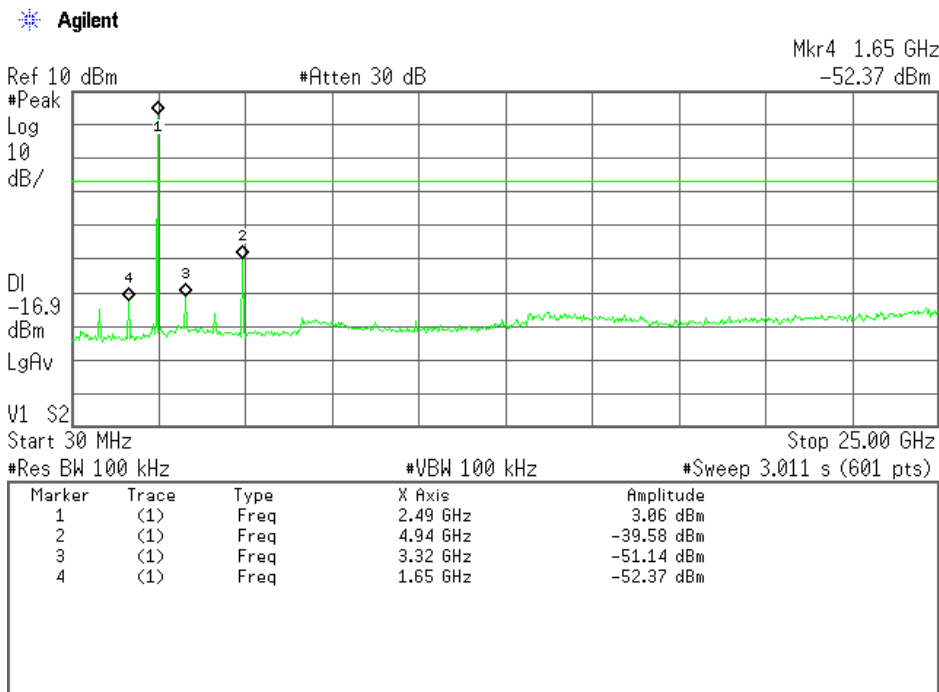
2. MIDDLE CHANNEL (2441 MHz): 30 MHz-25 GHz (see next plot).



Note: The peak above the limits is the carrier frequency.

Verdict: PASS

3. HIGH CHANNEL (2480 MHz): 30 MHz-25 GHz (see next plot).



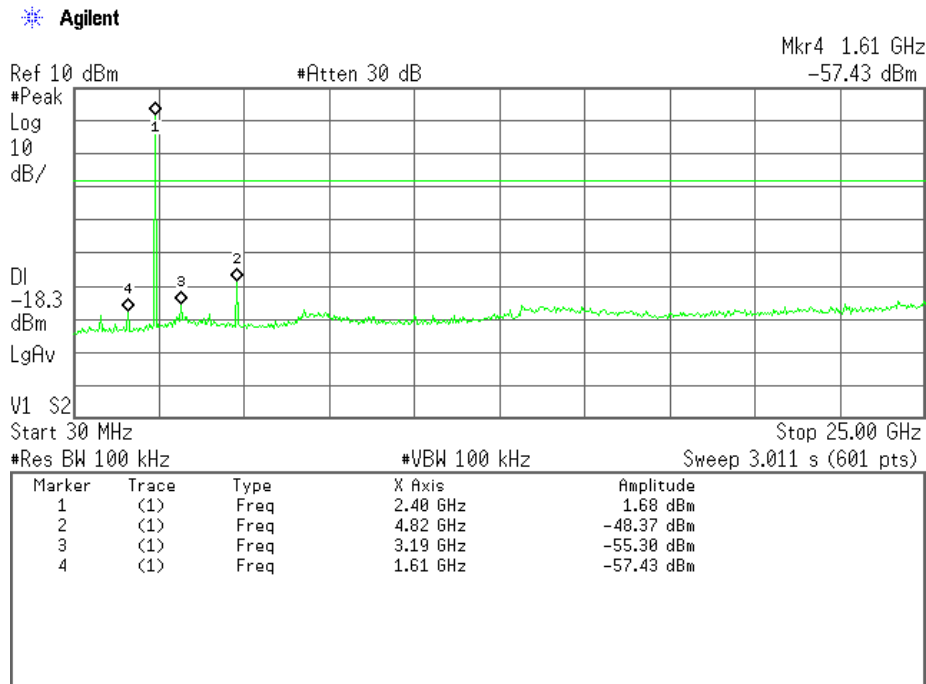
Note: The peak above the limits is the carrier frequency.

Verdict: PASS

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Modulation: $\Pi/4$ -DQPSK

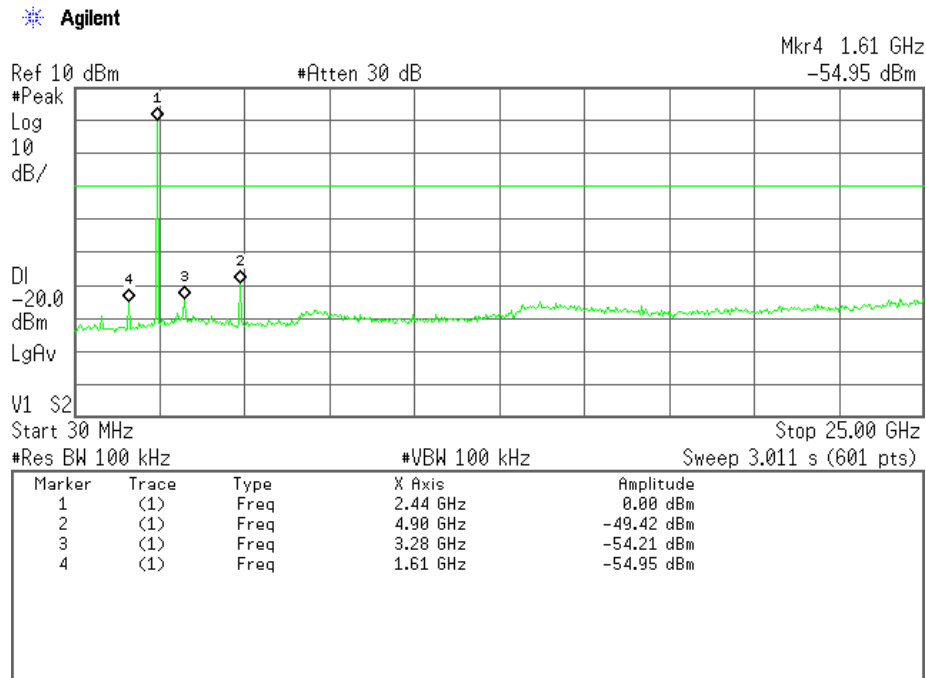
1. LOWEST CHANNEL (2402 MHz): 30 MHz-25 GHz (see next plot).



Note: The peak above the limits is the carrier frequency.

Verdict: PASS

2. MIDDLE CHANNEL (2441 MHz): 30 MHz-25 GHz (see next plot).

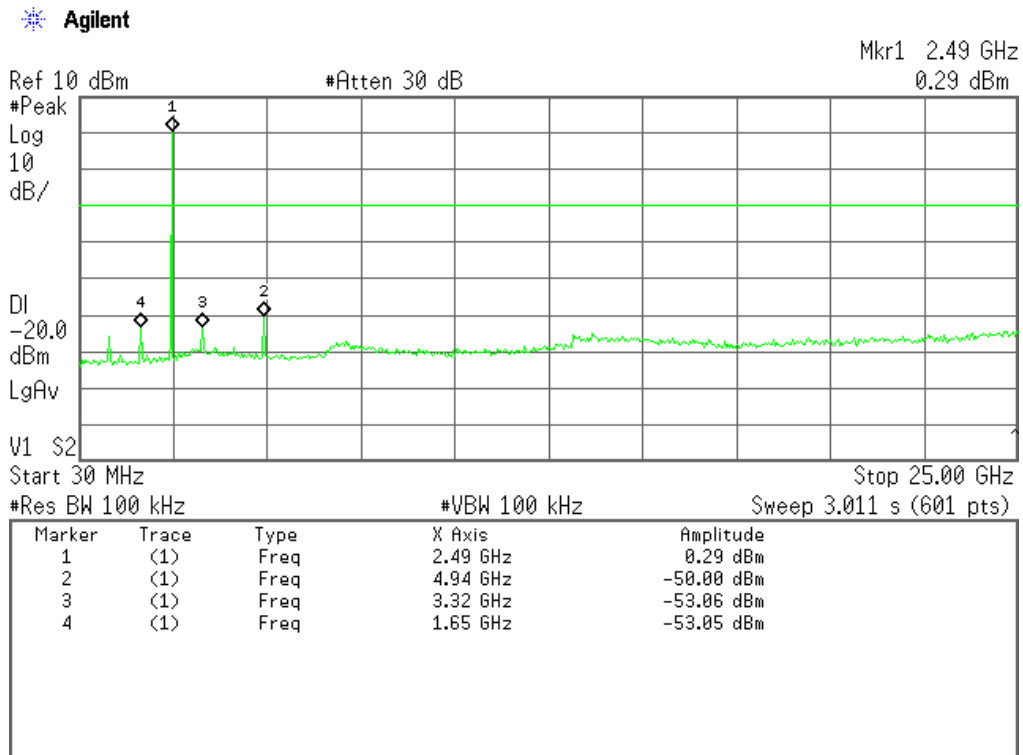


Note: The peaks above the limits are the carrier frequencies.

Verdict: PASS

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3. HIGH CHANNEL (2480 MHz): 30 MHz-25 GHz (see next plot).

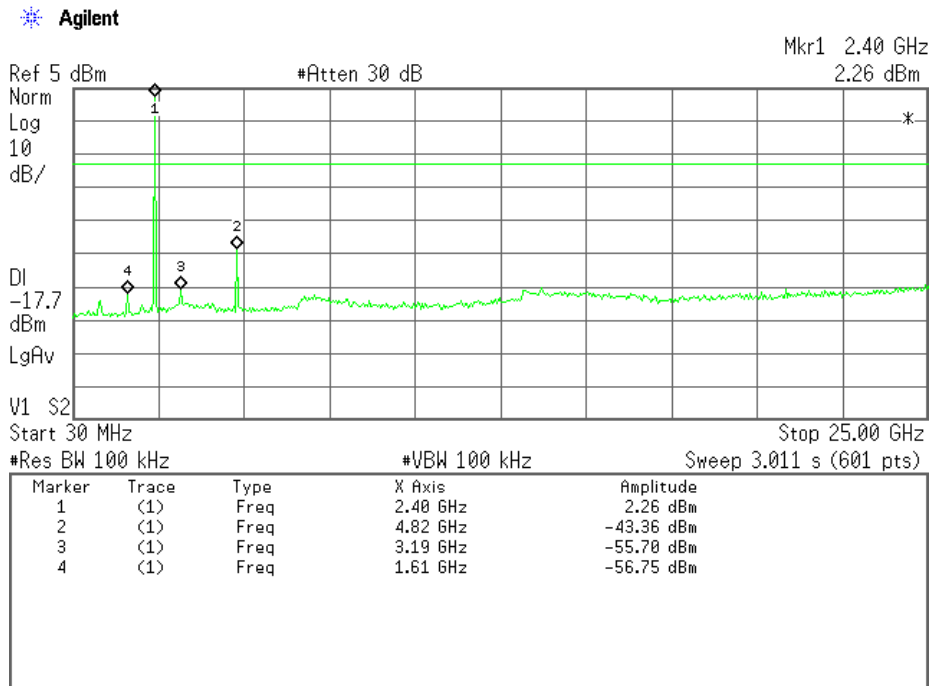


Note: The peak above the limit is the carrier frequency.

Verdict: PASS

Modulation: 8-DPSK

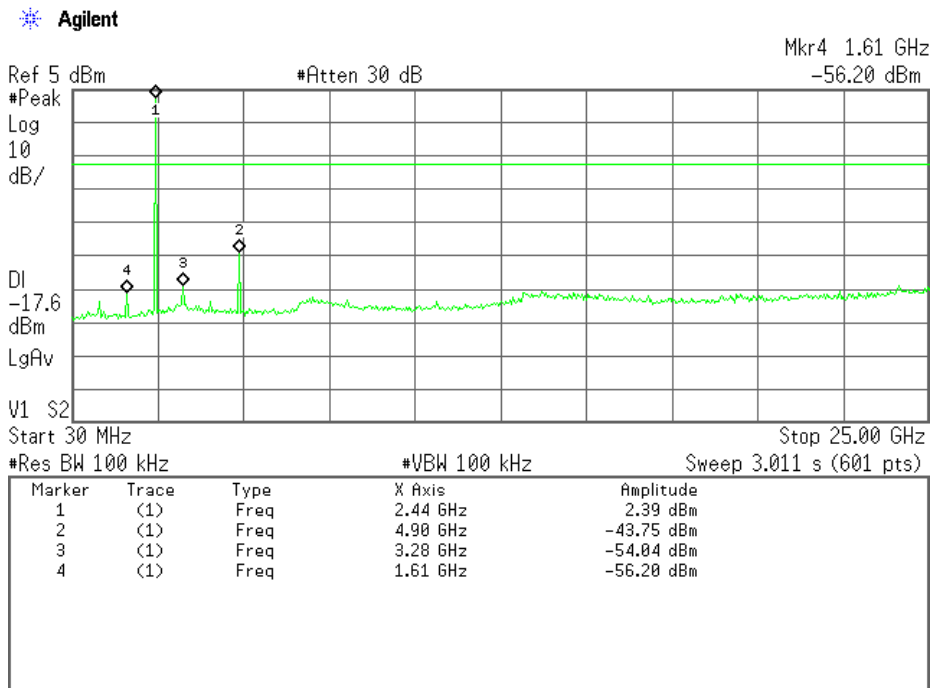
1. LOWEST CHANNEL (2402 MHz): 30 MHz-25 GHz (see next plot).



Note: The peak above the limits is the carrier frequency.

Verdict: PASS

2. MIDDLE CHANNEL (2441 MHz): 30 MHz-25 GHz (see next plot).

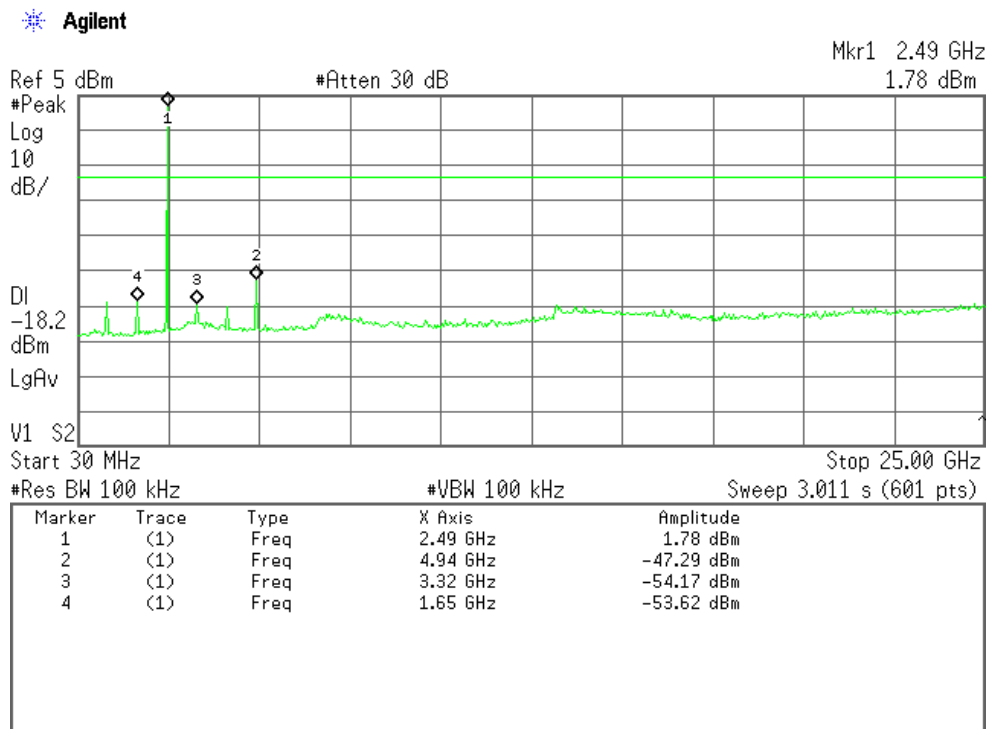


Note: The peaks above the limit are the carrier frequencies.

Verdict: PASS

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3. HIGH CHANNEL (2480 MHz): 30 MHz-25 GHz (see next plot).



Note: The peak above the limit is the carrier frequency.

Verdict: PASS

Section 15.247 Subclause (d). Emission limitations radiated (Transmitter)

SPECIFICATION

Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)):

Frequency Range (MHz)	Field strength ($\mu\text{V/m}$)	Field strength ($\text{dB}\mu\text{V/m}$)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	300
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 25000	500	54	3

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

RESULTS:

The orientation of the equipment under test was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

All tests were performed in a semi-anechoic chamber at a distance of 3 m for the frequency range 30 MHz-1000 MHz and at distance of 1m for the frequency range 1 GHz-25 GHz.

The field strength is calculated by adding correction factor to the measured level from the spectrum analyser. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

The equipment transmits continuously in the selected channel so it is not necessary a duty cycle correction factor.

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Frequency range 30 MHz-1000 MHz.

No spurious signals found in all the range for all modulation modes.

Frequency range 1 GHz-25 GHz.

A preliminary scan determines the modulation GFSK as the worst case. Measurements are made in GFSK modulation mode.

1. CHANNEL: LOWEST (2402 MHz).

Spurious levels (radiated).

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dB μ V/m)	Measurement Uncertainty (dB)
4803.633	V	Peak	52.04	± 4.0
4803.633	V	Average	50.15	± 4.0

Additionally, no spurious signals were found inside the restricted bands 2310-2390 MHz and 2483.5-2500 MHz.

2. CHANNEL: MIDDLE (2441 MHz).

Spurious levels (radiated).

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dB μ V/m)	Measurement Uncertainty (dB)
4881.782	V	Peak	52.44	± 4.0
4881.782	V	Average	50.66	± 4.0

Additionally, no spurious signals were found inside the restricted bands 2310-2390 MHz and 2483.5-2500 MHz.

3. CHANNEL: HIGHEST (2480 MHz).

Spurious levels (radiated).

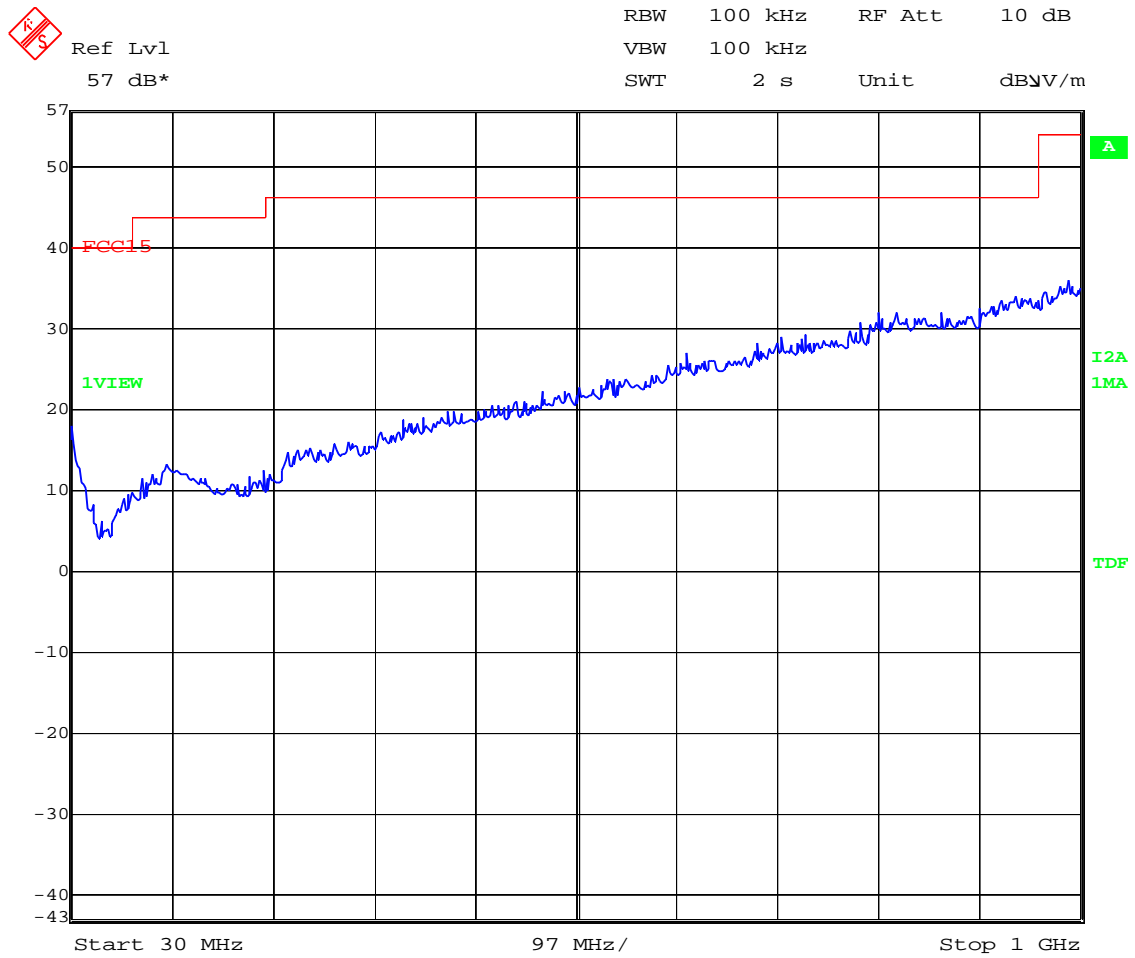
Spurious frequency (MHz)	Polarization	Detector	Emission Level (dB μ V/m)	Measurement Uncertainty (dB)
4959.658	V	Peak	51.38	± 4.0
4959.658	V	Average	49.77	± 4.0

Additionally, no spurious signals were found inside the restricted bands 2310-2390 MHz and 2483.5-2500 MHz.

Verdict: PASS

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FREQUENCY RANGE 30 MHz-1000 MHz.



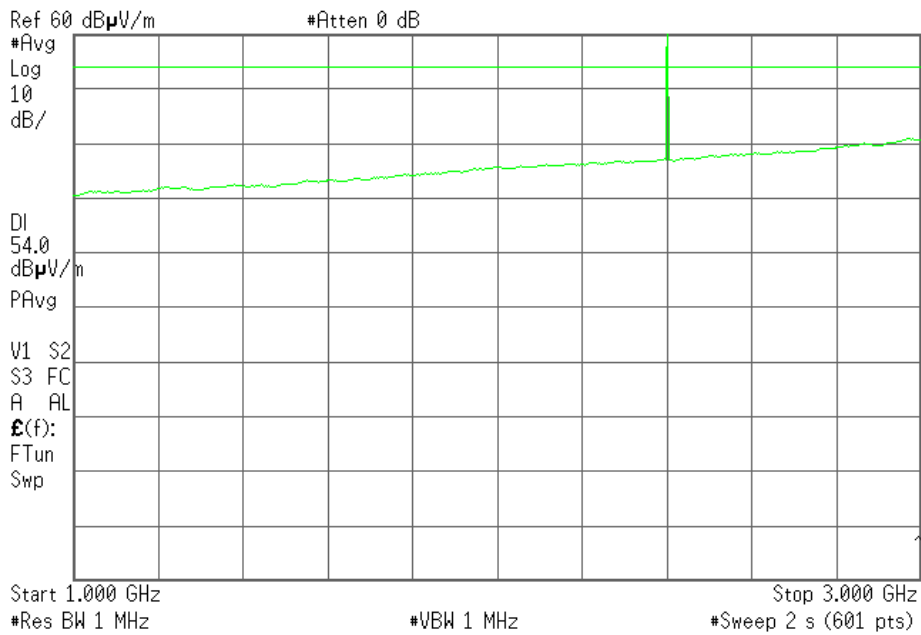
Date: 18.SEP.2007 11:42:08

(This plot is valid for all three channels).

FREQUENCY RANGE 1 GHz to 3 GHz.

CHANNEL: Lowest (2402 MHz).

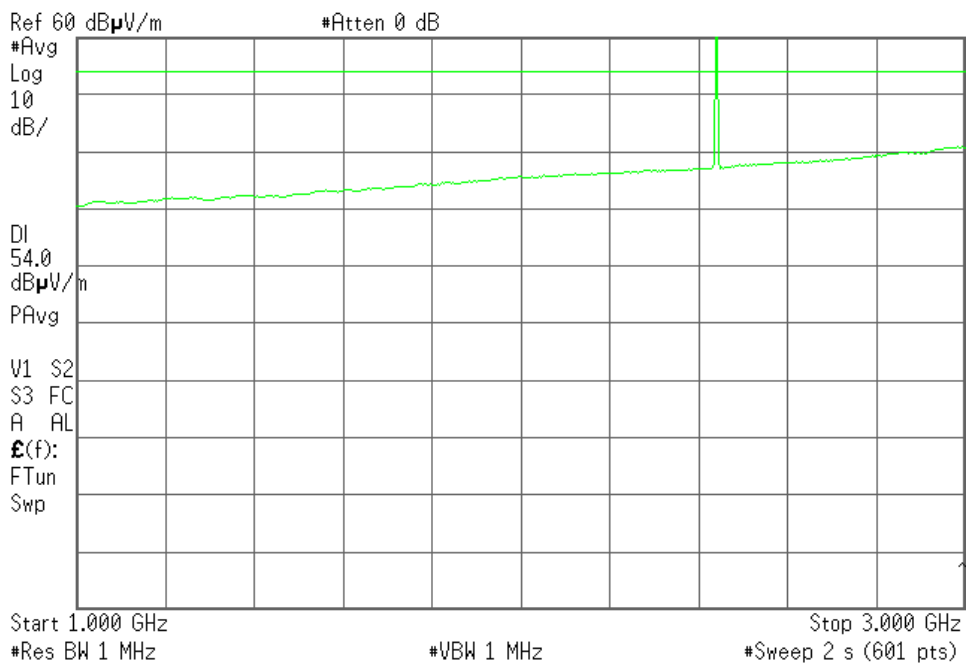
Agilent



Note: The peak above the limit is the carrier frequency.

CHANNEL: Middle (2441 MHz).

Agilent



Note: The peak above the limit is the carrier frequency.

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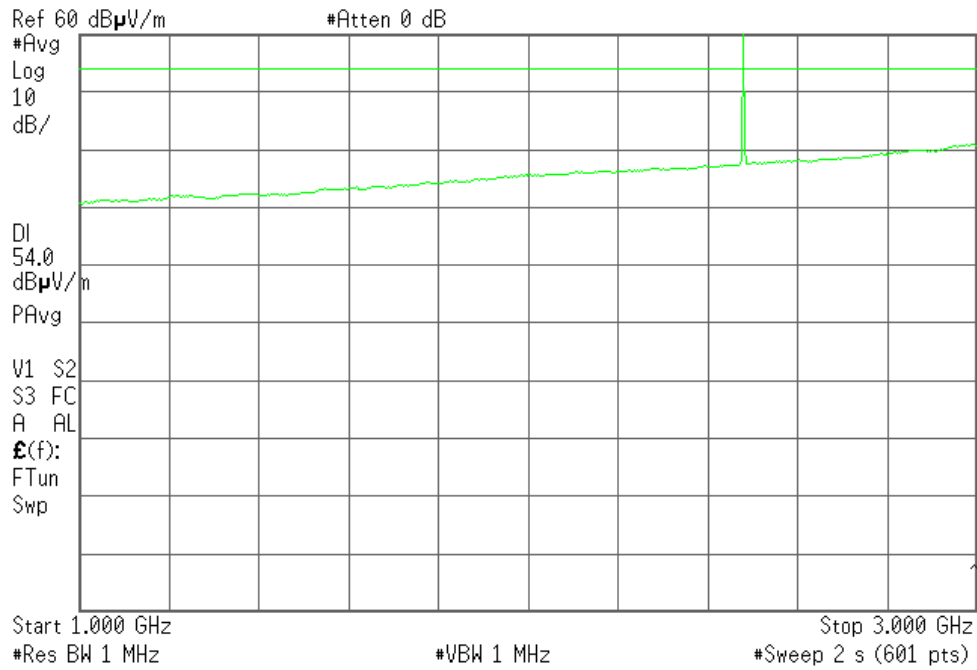
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CHANNEL: Highest (2480 MHz).

* Agilent



Note: The peak above the limit is the carrier frequency.

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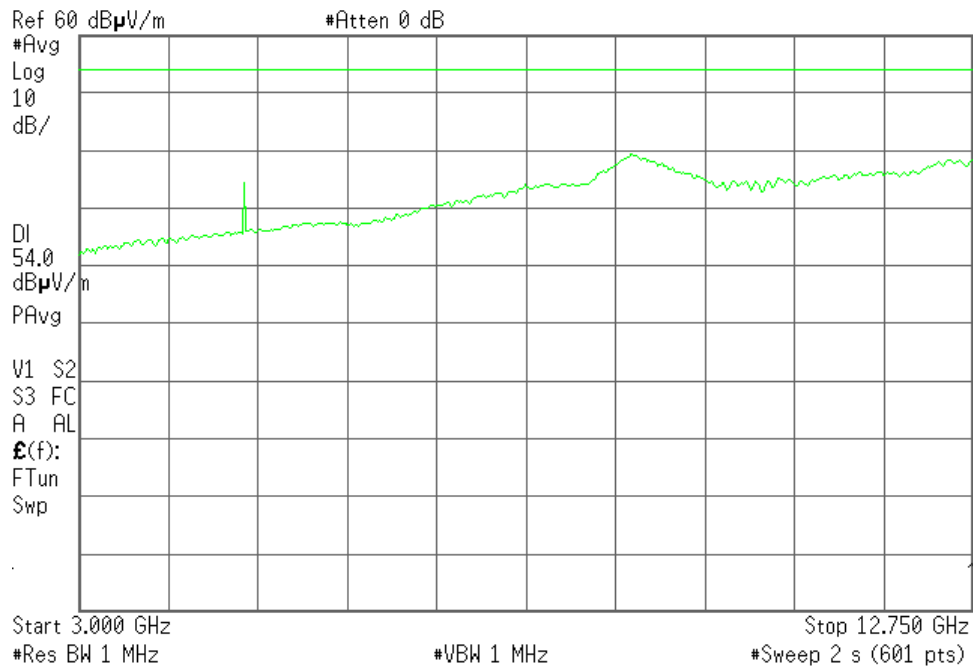
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FREQUENCY RANGE 3 GHz to 12.75 GHz.

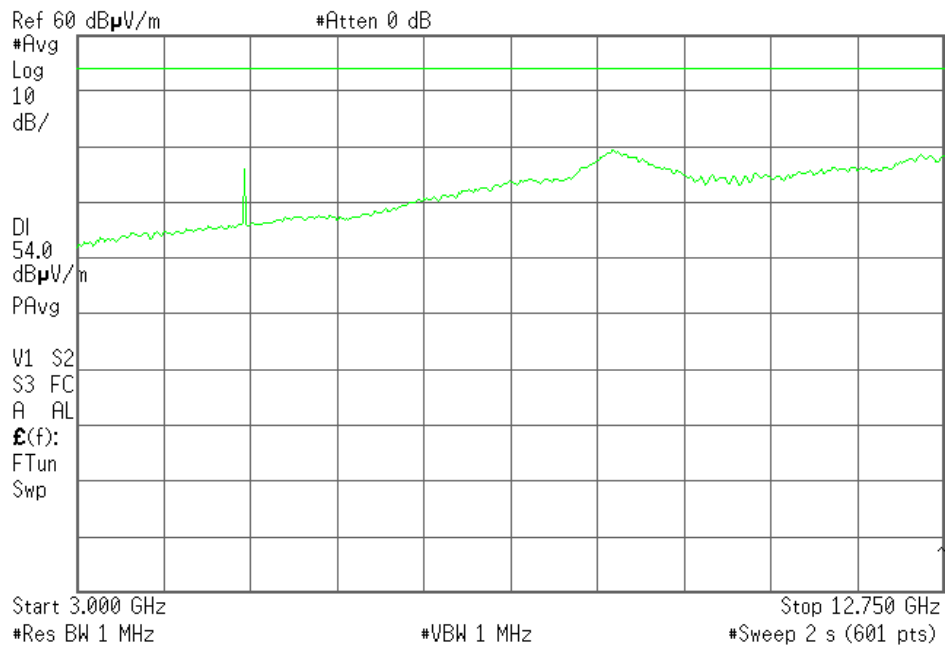
CHANNEL: Lowest (2402 MHz).

 Agilent

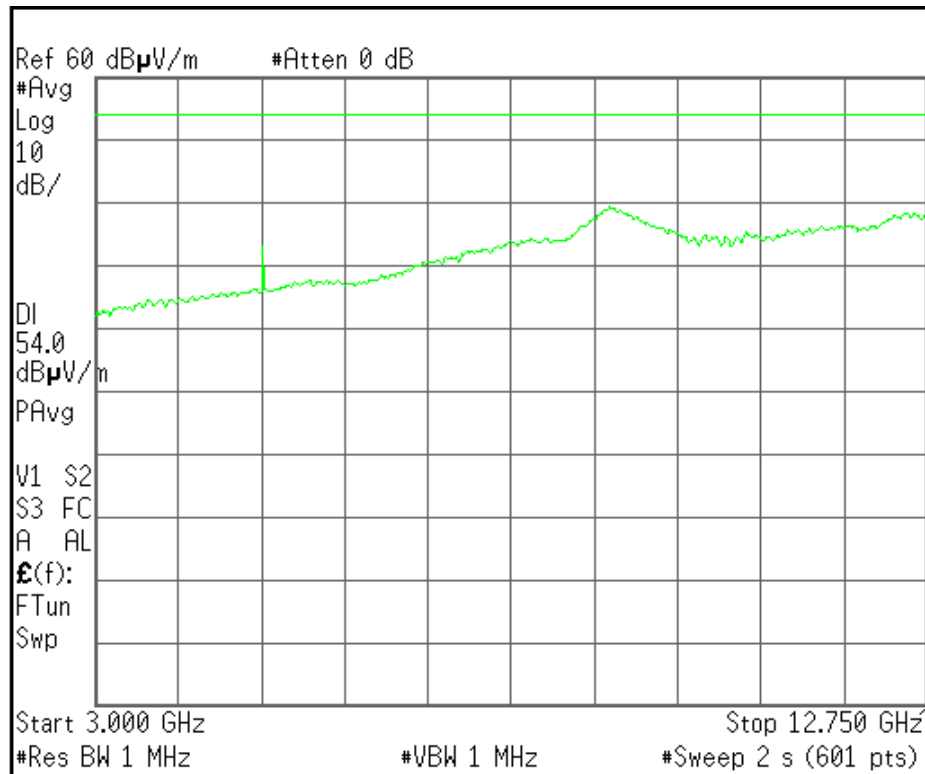


CHANNEL: Middle (2441 MHz).

 Agilent



CHANNEL: Highest (2480 MHz).



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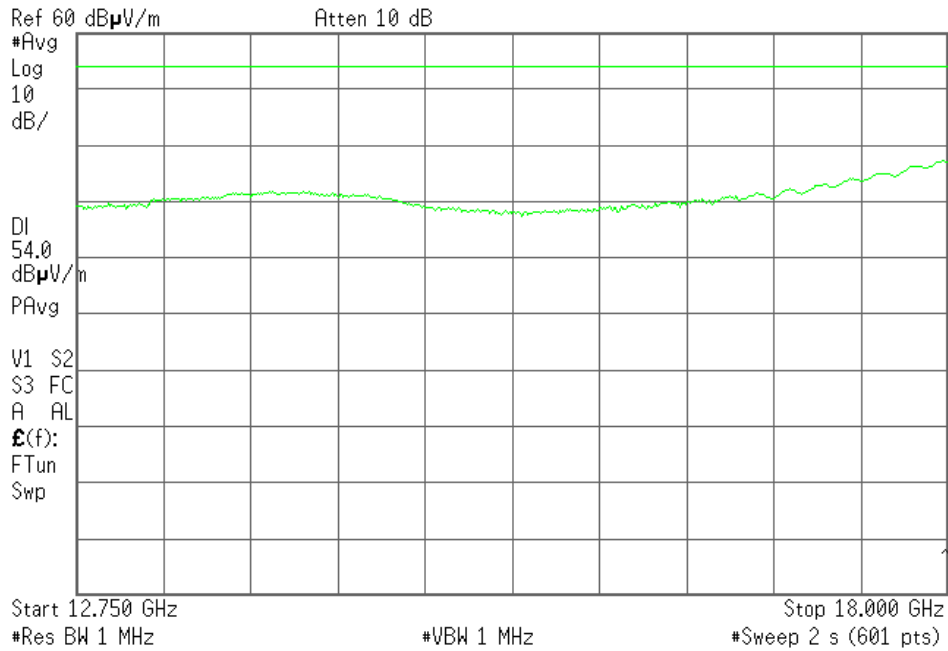
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FREQUENCY RANGE 12.75 GHz to 18 GHz.

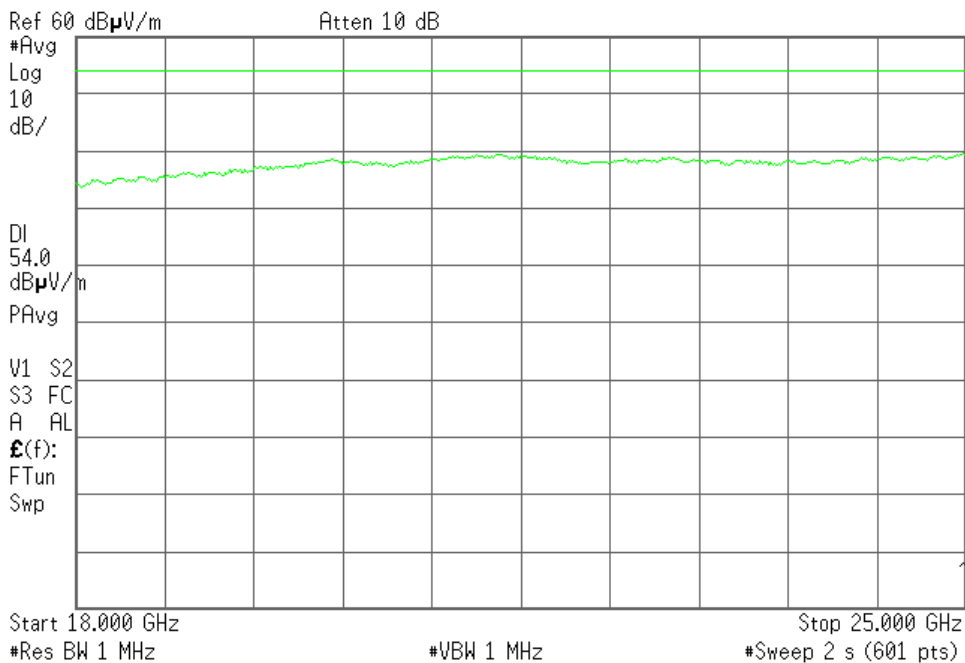
Agilent



(This plot is valid for all three channels).

FREQUENCY RANGE 18 GHz to 25 GHz.

Agilent



(This plot is valid for all three channels).

Section 15.109. Receiver spurious radiation

SPECIFICATION

The field strength shall not exceed the following values:

Frequency Range (MHz)	Field strength ($\mu\text{V/m}$)	Field strength ($\text{dB}\mu\text{V/m}$)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	300
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 25000	500	54	3

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

RESULTS:

The orientation of the equipment under test was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

All tests were performed in a semi-anechoic chamber at a distance of 3 m for the frequency range 30 MHz-1000 MHz and at distance of 1m for the frequency range 1 GHz-25 GHz.

The field strength is calculated by adding correction factor to the measured level from the spectrum analyser. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

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Frequency range 30 MHz-1000 MHz.

No spurious signals found.

Frequency range 1 GHz-25 GHz.

1. CHANNEL: LOWEST (2402 MHz).

Spurious levels (radiated).

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dB μ V/m)	Measurement Uncertainty (dB)
1600.392	H	Peak	38.10	± 4.0
1600.392	H	Average	33.06	± 4.0

Additionally, no spurious signals were found inside the restricted bands 2310-2390 MHz and 2483.5-2500 MHz.

2. CHANNEL: MIDDLE (2441 MHz).

Spurious levels (radiated).

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dB μ V/m)	Measurement Uncertainty (dB)
1626.292	H	Peak	39.83	± 4.0
1626.292	H	Average	36.08	± 4.0

Additionally, no spurious signals were found inside the restricted bands 2310-2390 MHz and 2483.5-2500 MHz.

3. CHANNEL: HIGHEST (2480 MHz).

Spurious levels (radiated).

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dB μ V/m)	Measurement Uncertainty (dB)
1652.342	H	Peak	40.18	± 4.0
1652.342	H	Average	37.46	± 4.0

Additionally, no spurious signals were found inside the restricted bands 2310-2390 MHz and 2483.5-2500 MHz.

Verdict: PASS.

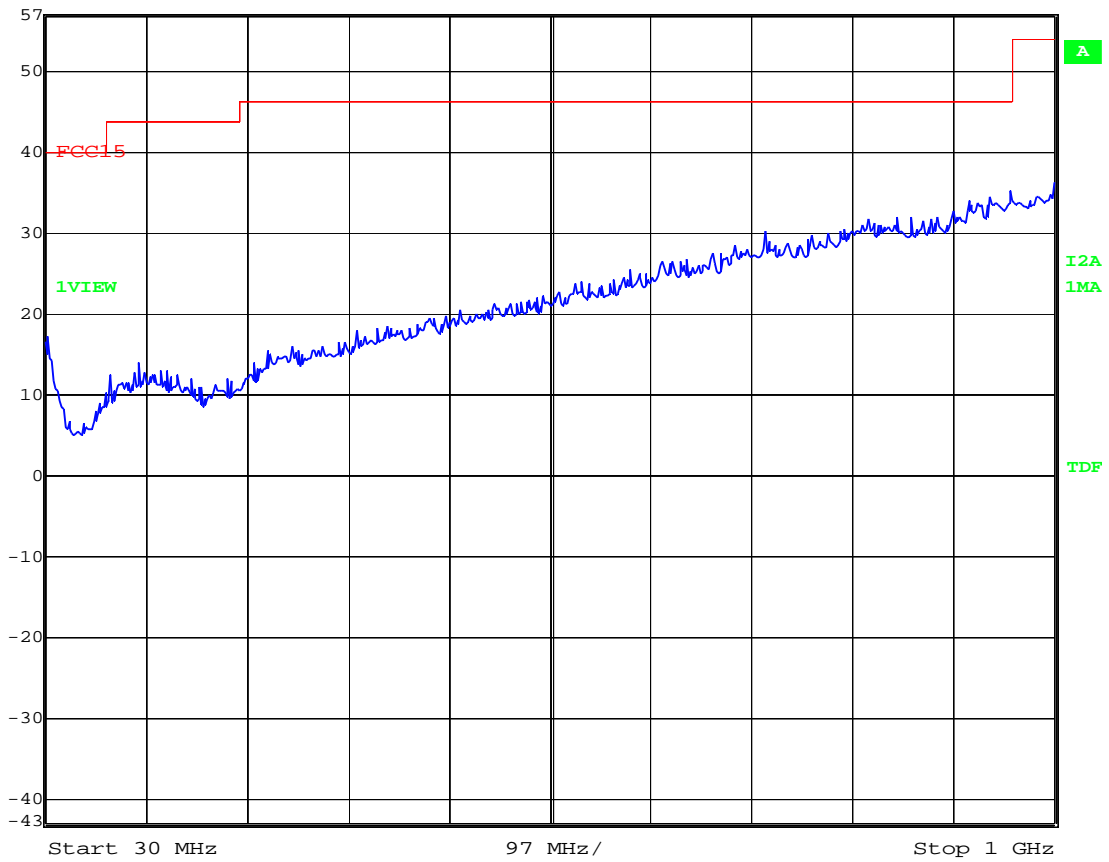
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FREQUENCY RANGE 30 MHz-1000 MHz.



Ref Lvl
57 dB*

RBW 100 kHz RF Att 10 dB
VBW 100 kHz
SWT 2 s Unit dBµV/m



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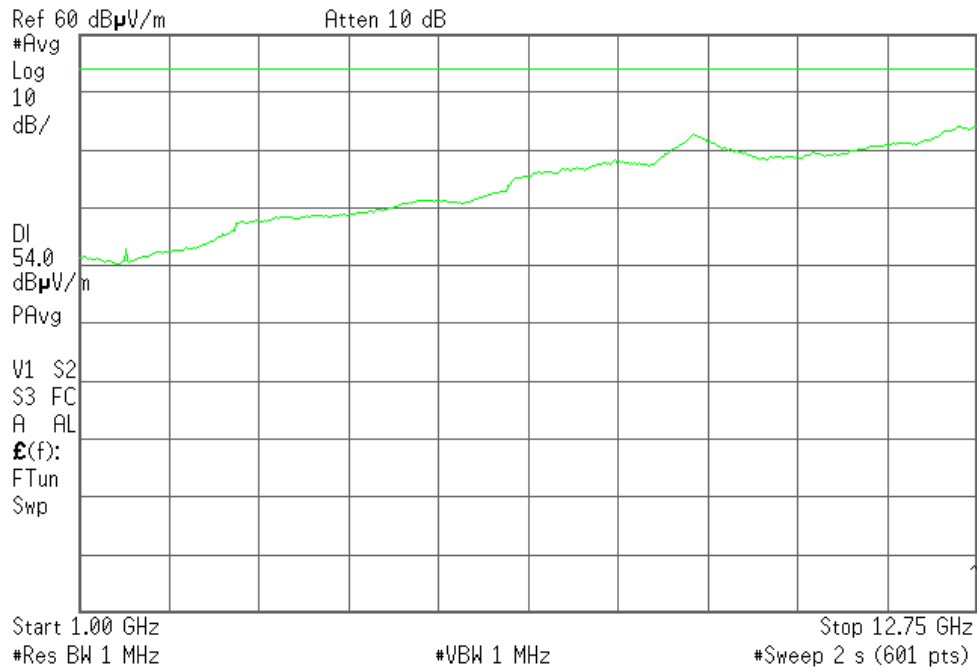
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FREQUENCY RANGE 1 GHz-12.75 GHz.

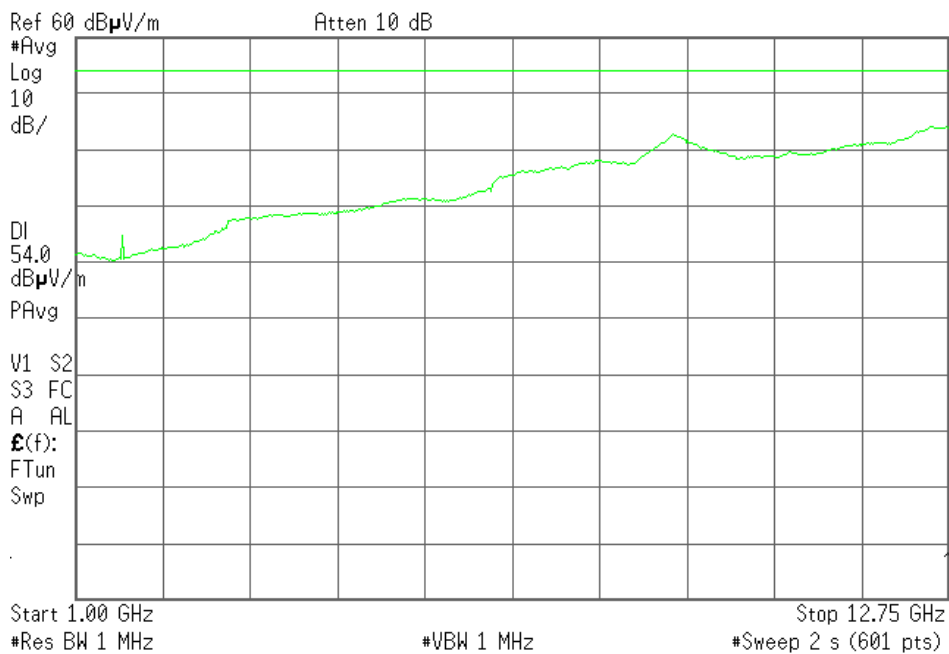
CHANNEL: Lowest (2402 MHz).

✱ Agilent



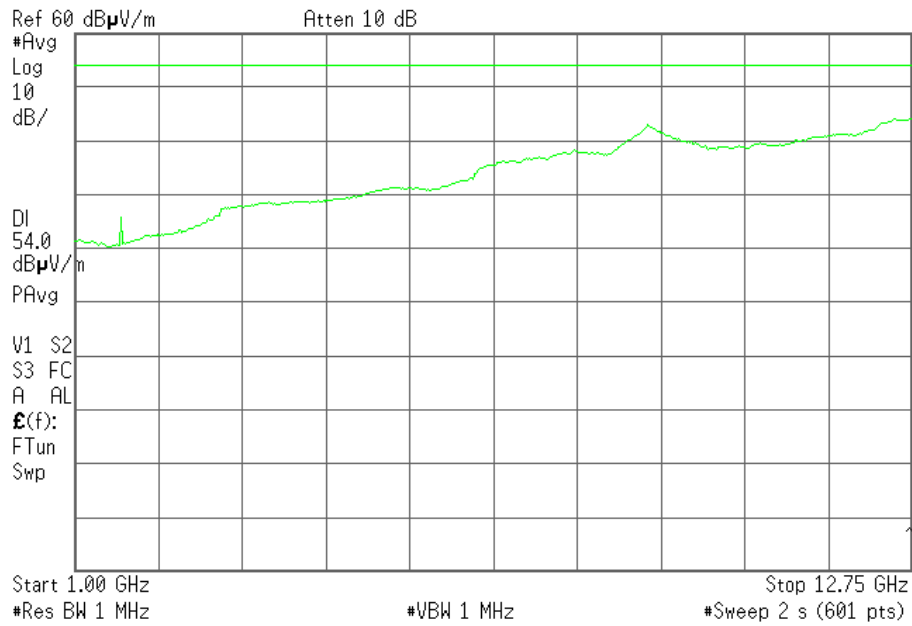
CHANNEL: Middle (2441 MHz).

✱ Agilent



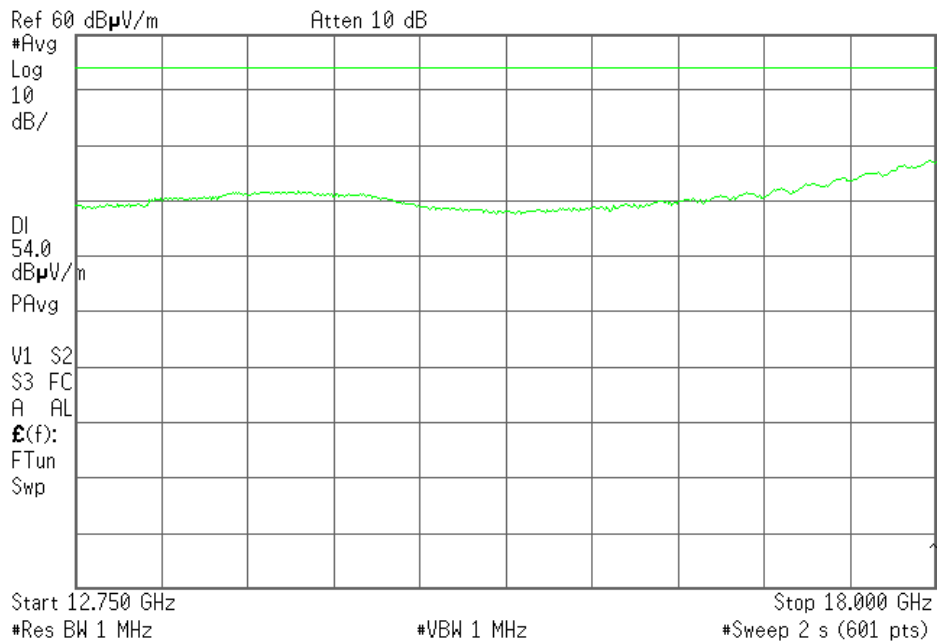
CHANNEL: Highest (2480 MHz).

* Agilent



FREQUENCY RANGE 12.75 GHz-18 GHz.

* Agilent



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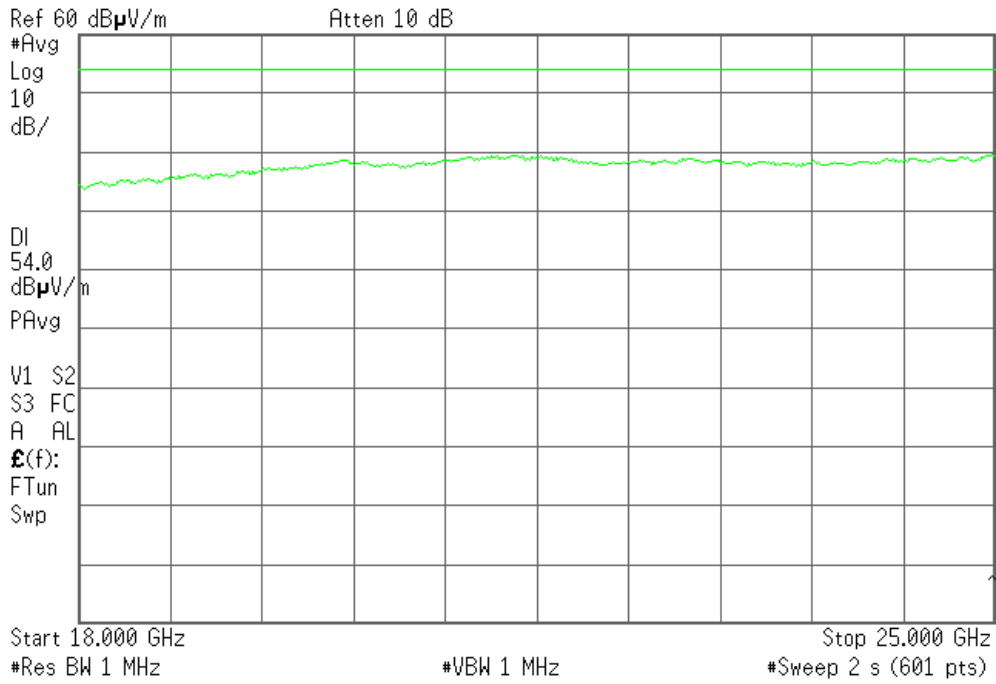
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FREQUENCY RANGE 18 GHz-25 GHz.

Agilent



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ANNEX B

PHOTOGRAPHS **(Number of photographs: 7)**

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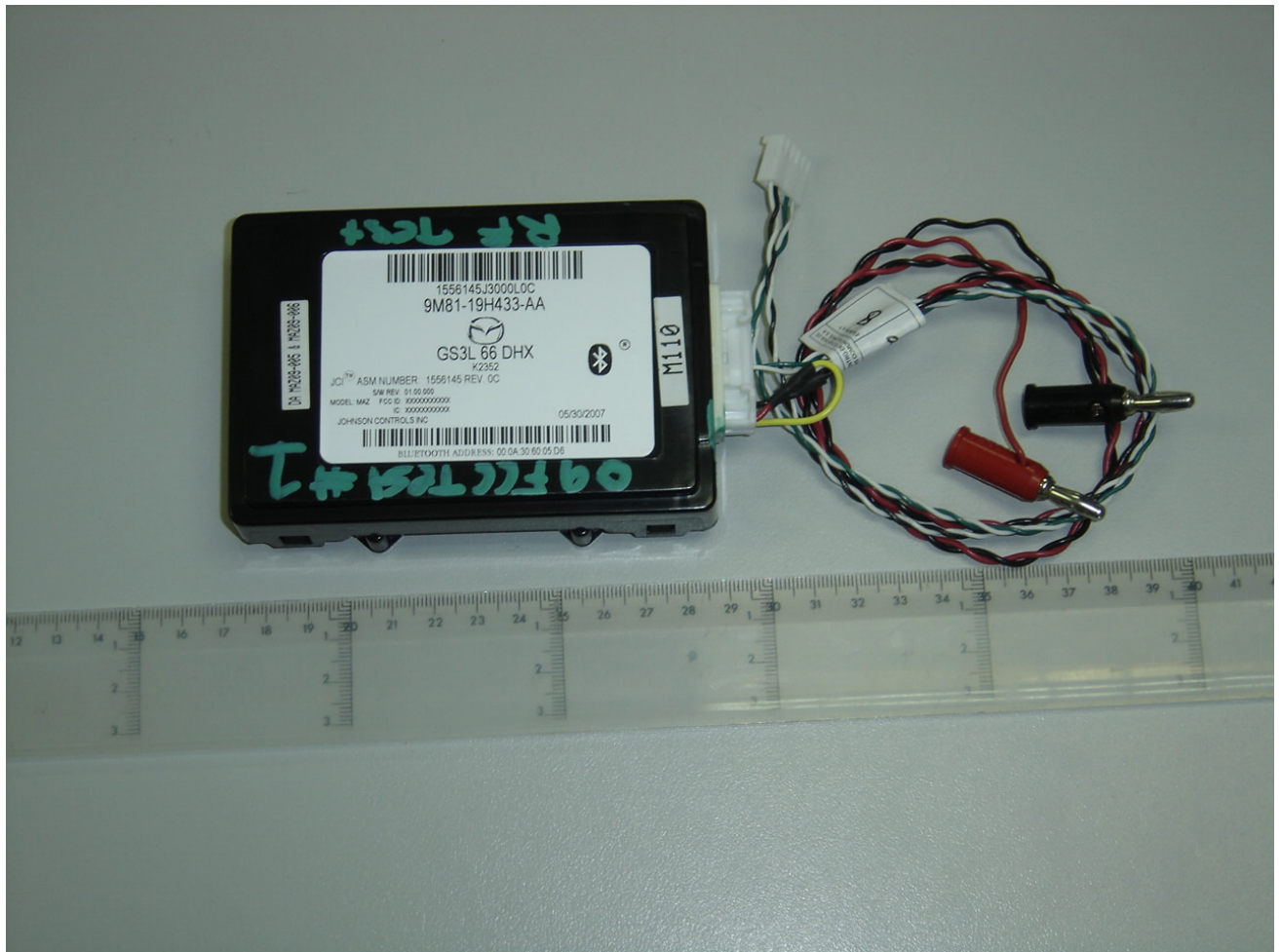
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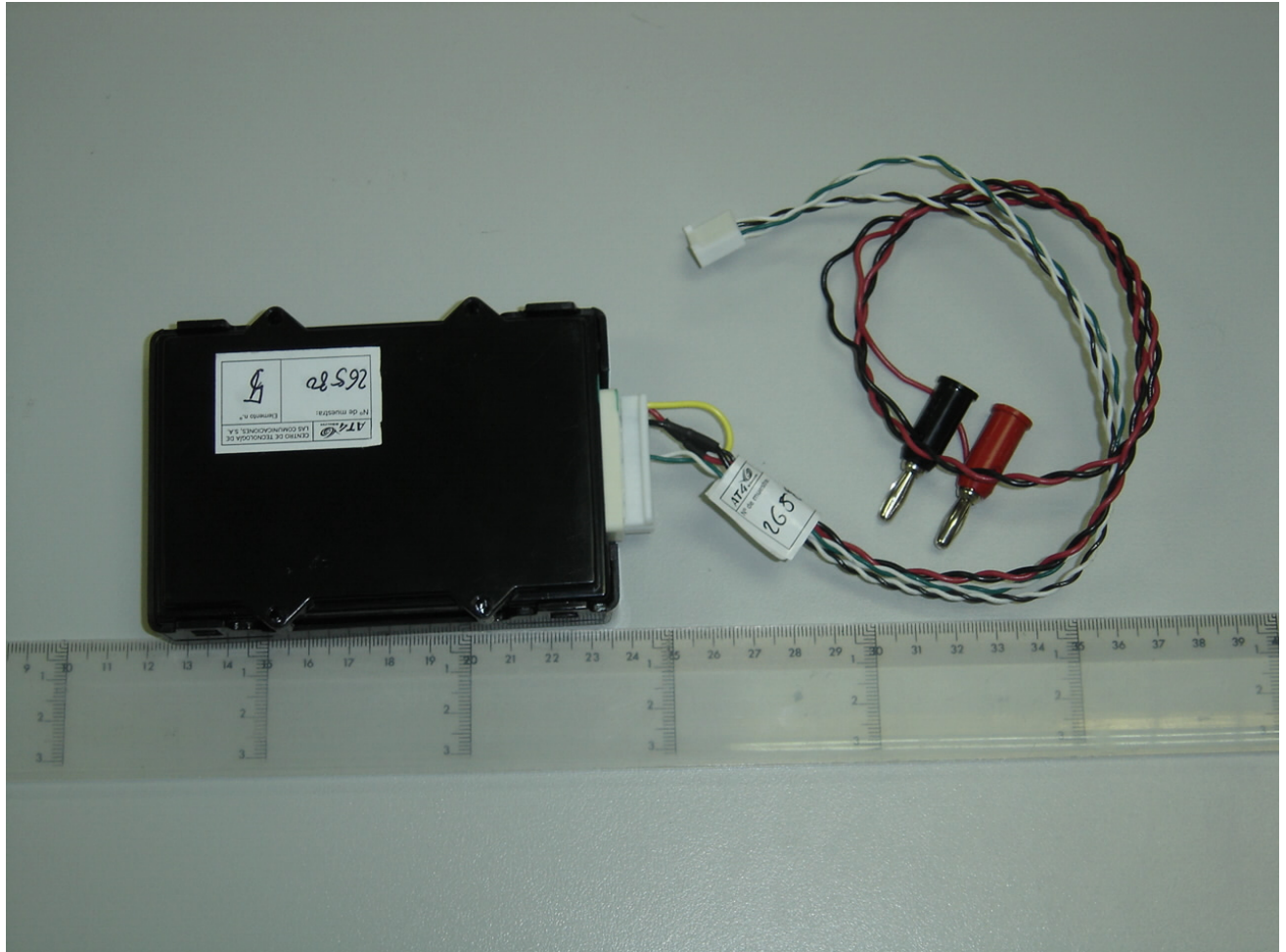
Annex B

1. Equipment for radiated measurements (front view)



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2. Equipment for radiated measurements (back view)



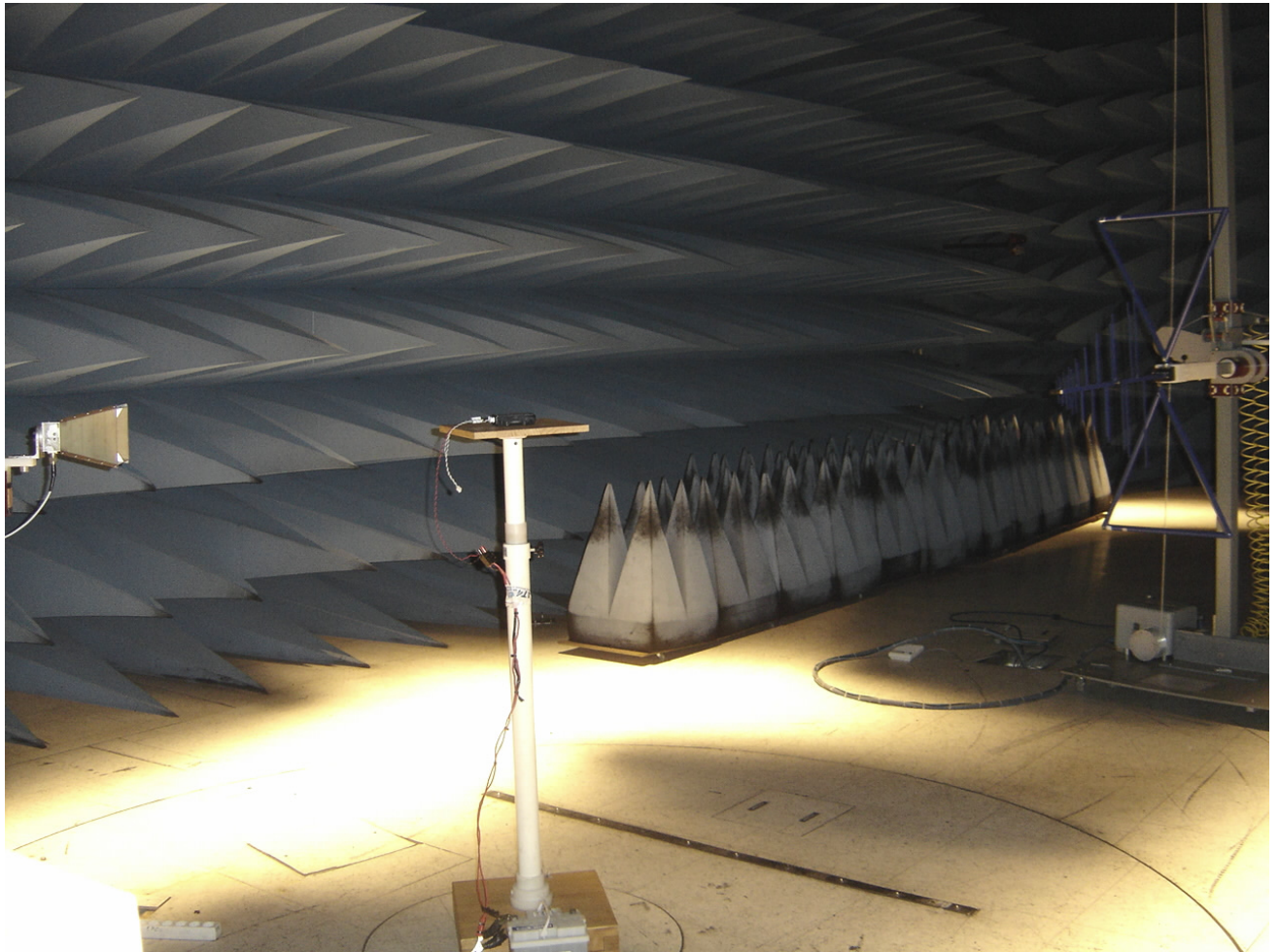
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3. Equipment for conducted measurements



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4. General test set-up for radiated measurements.



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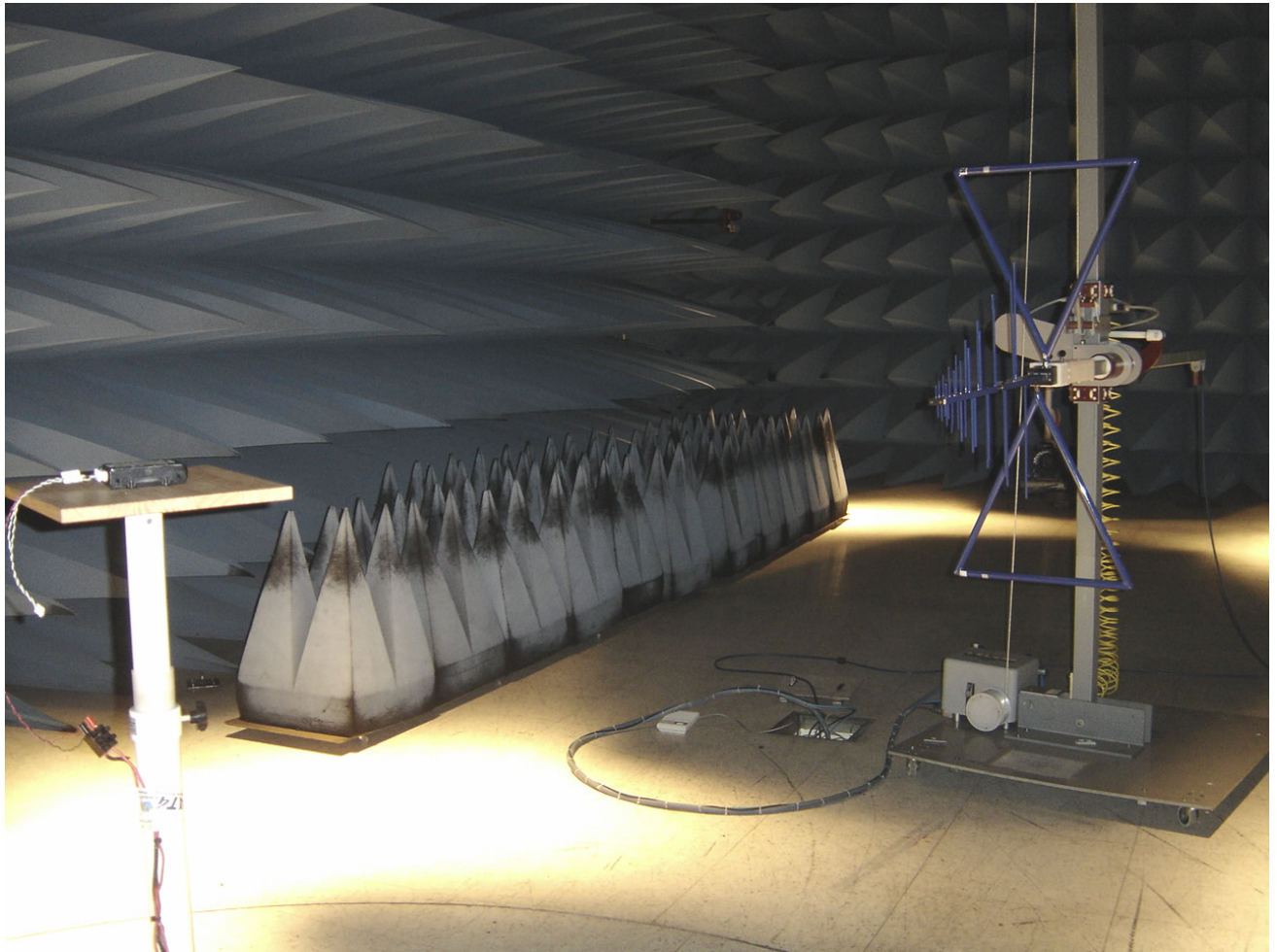
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5. Test set-up for radiated measurements below 1 GHz.



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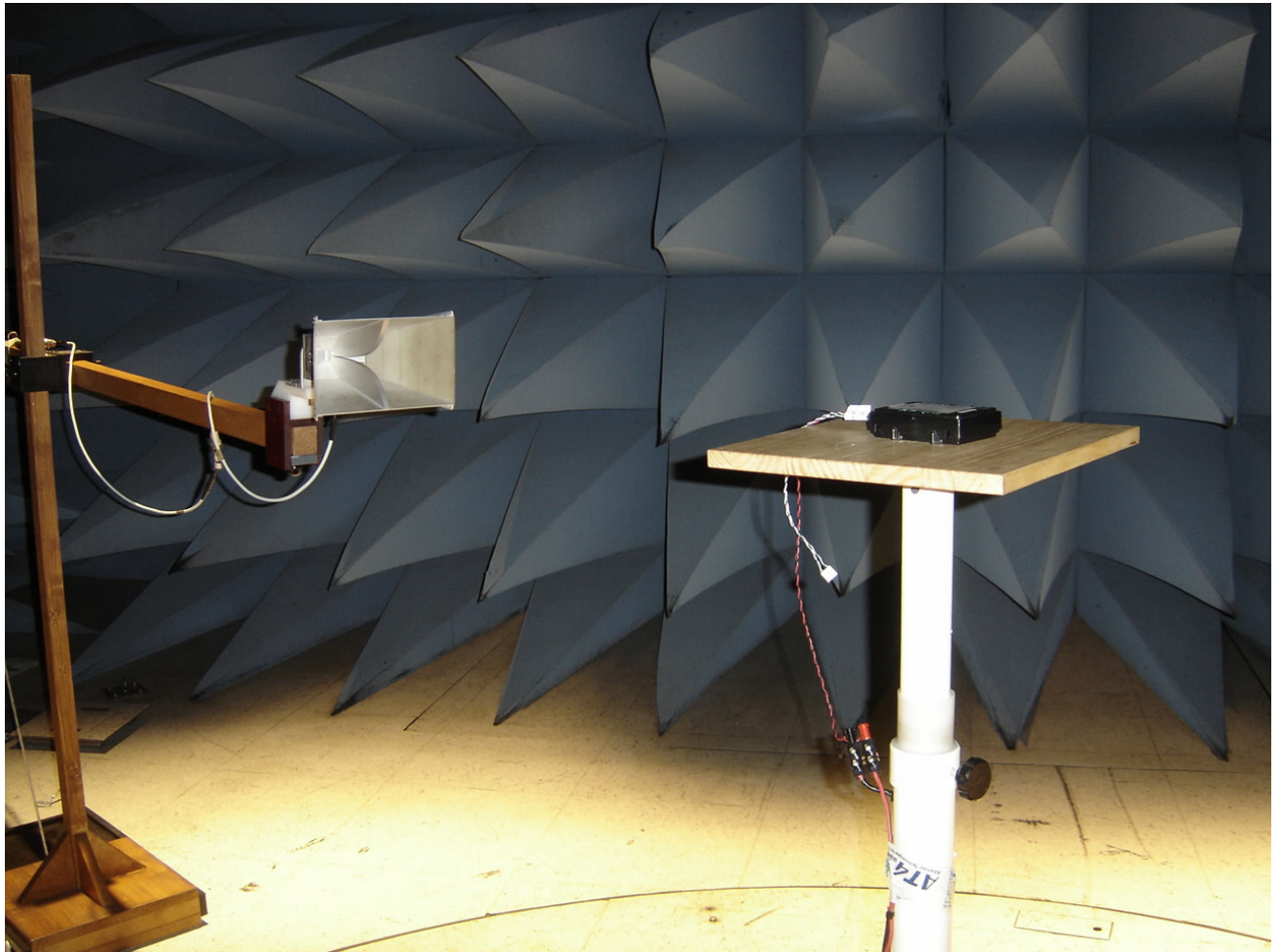
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6. Test set-up for radiated measurements above 1 GHz.



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7. Test set-up for RF conducted measurements.



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