

Informe de ensayo nº:  
 Test report No:

**NIE: 48081RRF.002**

**Test report**

**USA FCC Part 15.247, 15.209  
 CANADA RSS-247, RSS-Gen**

Radio Frequency Devices. Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and 5725 - 5850 MHz.

Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices.

General Requirements and Information for the Certification of Radio Apparatus.

<b>Identificación del objeto ensayado.....:</b> Identification of item tested	ISM band radio transceiver
<b>Marca .....</b> Trademark	N52 Series
<b>Modelo y/o referencia tipo .....</b> Model and /or type reference	N52832
<b>Other identification of the product .....</b>	s/n: nRF52FP1_CC06
<b>Final HW version .....</b>	N52832 QFAA, PCA 70028 r2.2.0
<b>Final SW version .....</b>	nDTM_r15008
<b>Características .....</b> Features	DTM 2-wire UART
<b>Fabricante .....</b> Manufacturer	Nordic Semiconductor ASA Otto Niensens veg 12, N-7052 Trondheim, Norway
<b>Método de ensayo solicitado, norma.....:</b> Test method requested, standard	USA FCC Part 15.247 10-1-14 Edition: Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and 5725 - 5850 MHz. USA FCC Part 15.209 10-1-14 Edition: Radiated emission limits; general requirements. CANADA RSS-247 Issue 1 (May 2015). CANADA RSS-Gen Issue 4 (November 2014). Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 558074 D01 DTS Meas Guidance v03r03 dated 06/09/2015. ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.
<b>Resultado.....:</b> Summary	IN COMPLIANCE

<b>Aprobado por (nombre / cargo y firma) .....</b> Approved by (name / position & signature)	A. Llamas RF Lab. Manager
<b>Fecha de realización .....</b> Date of issue	2016-01-18
<b>Formato de informe No. ....</b> Report template No	FDT08_17

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## Competences and guarantees

AT4 wireless is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, AT4 wireless has a calibration and maintenance program for its measurement equipment.

AT4 wireless guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at AT4 wireless at the time of performance of the test.

AT4 wireless is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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## General conditions

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of AT4 wireless.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of AT4 wireless and the Accreditation Bodies.

## Uncertainty

Uncertainty (factor  $k=2$ ) was calculated according to the AT4 wireless internal document PODT000.

## Usage of samples

Samples undergoing test have been selected by: **the client**

Sample S/01 is composed of the following elements:

Control N°	Description	Model	Serial N°	Date of reception
48081/001	Test Board (Bluetooth low energy transceiver ) with antenna connector	N52832	nRF52FP1_CC06	2015-12-02
48081/002	Antenna	ANT-2.4-CW-RAH	---	2015-12-02
48081/003	USB cable	---	---	2015-12-02

1. Sample S/01 has undergone following test(s).  
All radiated tests indicated in appendix A.

Sample S/02 is composed of the following elements:

Control N°	Description	Model	Serial N°	Date of reception
48081/001	Test Board (Bluetooth low energy transceiver ) with antenna connector	N52832	nRF52FP1_CC06	2015-12-02
48081/003	USB cable	---	---	2015-12-02

- Sample S/02 has undergone following test(s).  
 All conducted tests indicated in appendix A.

## Test sample description

The test sample consists of a Bluetooth low energy transceiver

## Identification of the client

NORDIC SEMICONDUCTOR ASA  
 Otto Nielsens veg 12, N-7052 Trondheim, Norway

## Testing period

The performed test started on 2015-12-15 and finished on 2015-12-19.  
 The tests have been performed at AT4 wireless.

## Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

<b>Temperature</b>	Min. = 15 °C Max. = 35 °C
<b>Relative humidity</b>	Min. = 20 % Max. = 75 %
<b>Shielding effectiveness</b>	> 100 dB
<b>Electric insulation</b>	> 10 kΩ
<b>Reference resistance to earth</b>	< 1 Ω

In the semianechoic chamber, the following limits were not exceeded during the test.

<b>Temperature</b>	Min. = 15 °C Max. = 35 °C
<b>Relative humidity</b>	Min. = 20 % Max. = 75 %
<b>Air pressure</b>	Min. = 860 mbar Max. = 1060 mbar
<b>Shielding effectiveness</b>	> 100 dB
<b>Electric insulation</b>	> 10 kΩ
<b>Reference resistance to earth</b>	< 1 Ω
<b>Normal site attenuation (NSA)</b>	< ±4 dB at 10 m distance between item under test and receiver antenna, (30 MHz to 1000 MHz)
<b>Field homogeneity</b>	More than 75% of illuminated surface is between 0 and 6 dB (26 MHz to 1000 MHz).

In the chamber for conducted measurements, the following limits were not exceeded during the test:

<b>Temperature</b>	Min. = 15 °C Max. = 35 °C
<b>Relative humidity</b>	Min. = 20 % Max. = 75 %
<b>Air pressure</b>	Min. = 860 mbar Max. = 1060 mbar
<b>Shielding effectiveness</b>	> 100 dB
<b>Electric insulation</b>	> 10 kΩ
<b>Reference resistance to earth</b>	< 1 Ω

## Remarks and comments

1: Test not requested.

2: Used instrumentation:

### Conducted Measurements

	Last Cal. date	Cal. due date
1. Spectrum Analyzer Agilent E4440A	2014/05	2016/05
2. DC power supply R&S NGPE 40/40	2014/11	2017/11

### Radiated Measurements

	Last Cal. date	Cal. due date
1. Semianechoic Absorber Lined Chamber ETS FACT3 200STP	N.A.	N.A.
2. BiconicalLog antenna ETS LINDGREN 3142E	2014/03	2017/03
3. Multi Device Controller EMCO 2090	N.A.	N.A.
4. Double-ridge Guide Horn antenna 1-18 GHz SCHWARZBECK BBHA 9120 D	2013/11	2016/11
5. Broadband Horn antenna 18-40 GHz SCHWARZBECK BBHA 9170	2014/03	2017/03
6. EMI Test Receiver R&S ESU 40	2014/02	2016/02
7. EMI Test Receiver R&S ESU 26	2015/11	2017/11
8. RF pre-amplifier 10 MHz-6 GHz SCHWARZBECK BBV9743	2015/03	2016/03
9. RF pre-amplifier 1-18 GHz Bonn Elektronik BLMA 0118-3A	2015/05	2016/05
10. RF pre-amplifier 12-26 GHz Miteq JS4-12002600-30-5A	2015/10	2017/10
11. DC power supply R&S NGPE 40/40	2014/11	2017/11

## Testing verdicts

<b>Not applicable</b> .....	N/A
<b>Pass</b> .....	P
<b>Fail</b> .....	F
<b>Not measured</b> .....	N/M

FCC PART 15 PARAGRAPH / RSS-247		VERDICT			
		NA	P	F	NM
Section 15.247 Subclause (a) (2) / RSS-247 5.2. (1)	6 dB Bandwidth	P			
Section 15.247 Subclause (b) / RSS-247 5.4. (4)	Maximum output power and antenna gain	P			
Section 15.247 Subclause (d) / RSS-247 5.5 ....	Emission limitations conducted (Transmitter)	P			
Section 15.247 Subclause (d) / RSS-247 5.5. ..	Band-edge emissions compliance (Transmitter)	P			
Section 15.247 Subclause (e) / RSS-247 5.2. (2)	Power spectral density	NM <sup>2</sup>			
Section 15.247 Subclause (d) / RSS-247 5.5. ...	Emission limitations radiated (Transmitter)	P			

1: See Remarks and Comments.

## Appendix A – Test result



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## TEST CONDITIONS

Power supply (V):

$$V_{\text{nominal}} = 3 \text{ Vdc}$$

Type of power supply = DC voltage from external power supply.

Type of antenna: External attachable antenna

Maximum declared antenna gain: 1.6 dBi

### TEST FREQUENCIES:

Lowest channel: 2402 MHz

Middle channel: 2440 MHz

Highest channel: 2480 MHz

### CONDUCTED MEASUREMENTS

The equipment under test was set up in a shielded room and it is directly connected to the spectrum analyzer.



### RADIATED MEASUREMENTS

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at a distance of 3 m for the frequency range 30 MHz-1000 MHz (30 MHz-1000 MHz Bilog antenna) and at a distance of 1m for the frequency range 1 GHz-25 GHz (1 GHz-18 GHz Double ridge horn antenna and 18 GHz-40 GHz horn antenna).

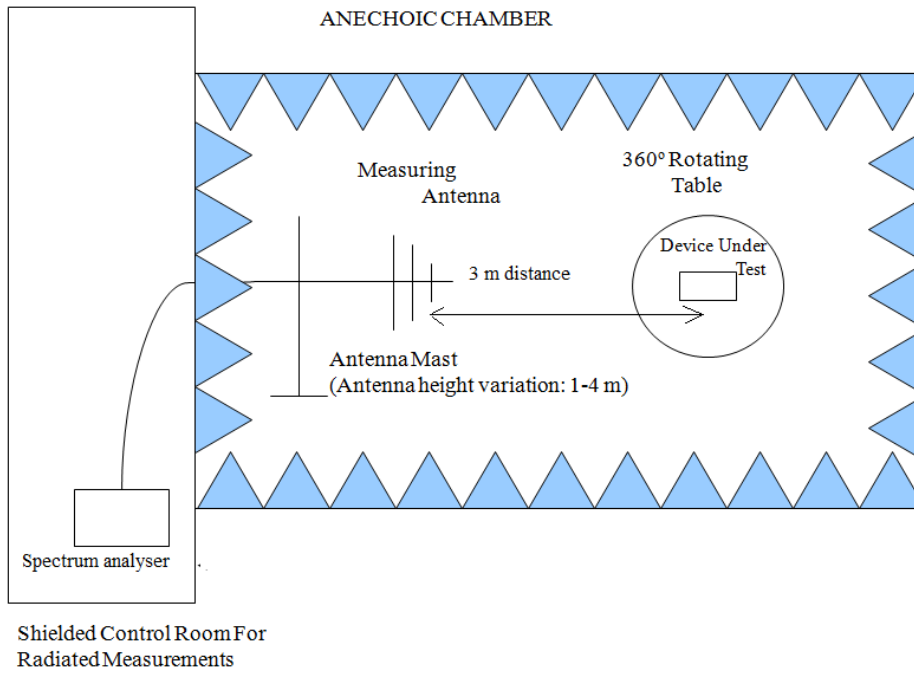
For radiated emissions in the range 1 GHz-25 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

The equipment under test was set up on a non-conductive (wooden) platform one meter above the ground plane and the situation and orientation was varied to find the maximum radiated emission.

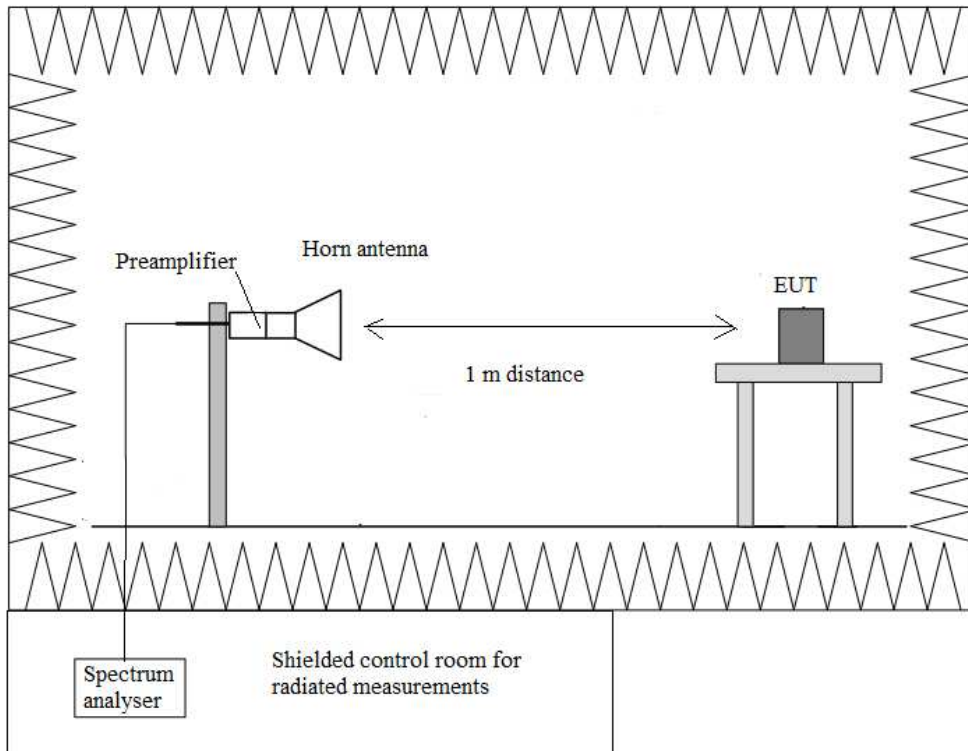
It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

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

### Radiated measurements setup $f < 1$ GHz



### Radiated measurements setup $f > 1$ GHz



**Section 15.247 Subclause (a) (2) / RSS-247 5.2. (1). 6 dB Bandwidth**

SPECIFICATION

The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

6 dB Bandwidth (see next plots).

**Power target: 4 dBm (BLE BitRate: 1Mbs DCC:ON)**

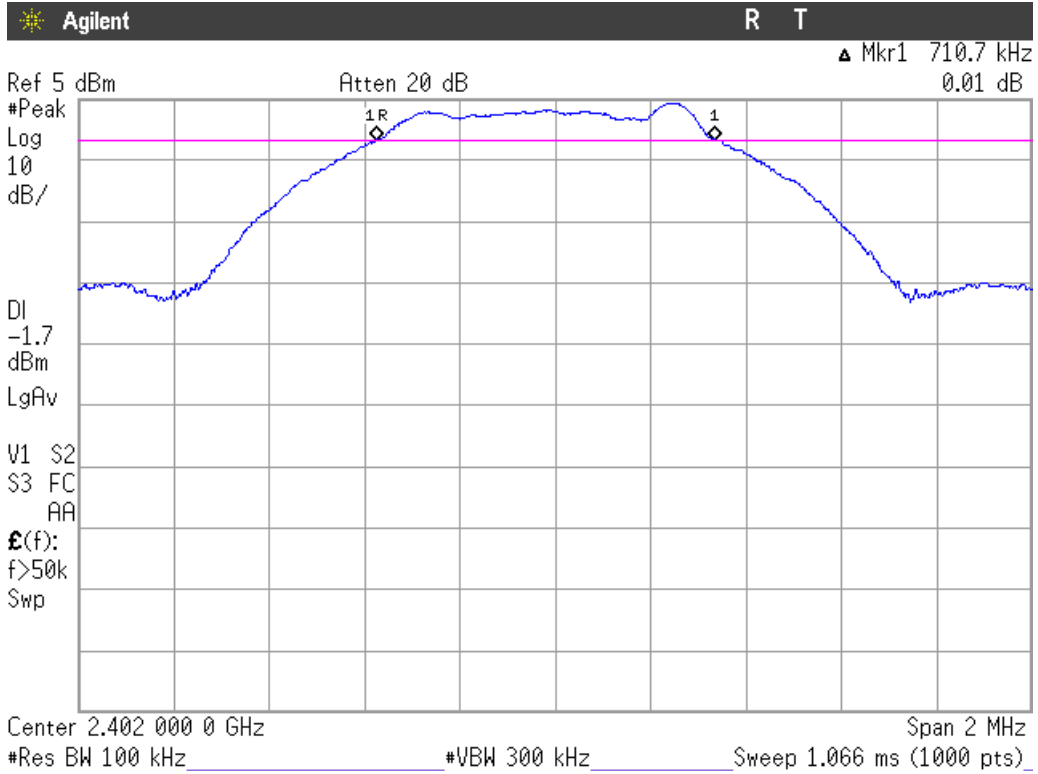
	Lowest frequency 2402 MHz	Middle frequency 2440 MHz	Highest frequency 2480 MHz
6 dB Spectrum bandwidth (kHz)	710.7	706.7	718.7
Measurement uncertainty (kHz)	<±11.0		

Verdict: PASS

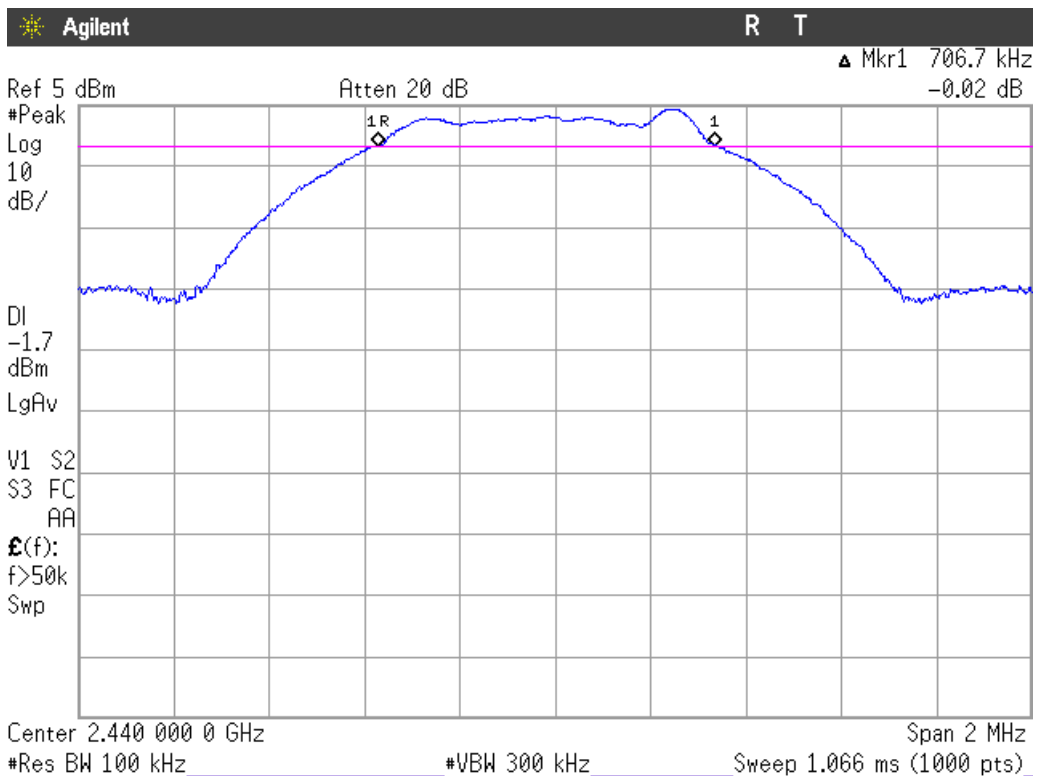
6 dB BANDWIDTH.

**Power target: 4 dBm (BLE BitRate: 1Mbps DCC:ON)**

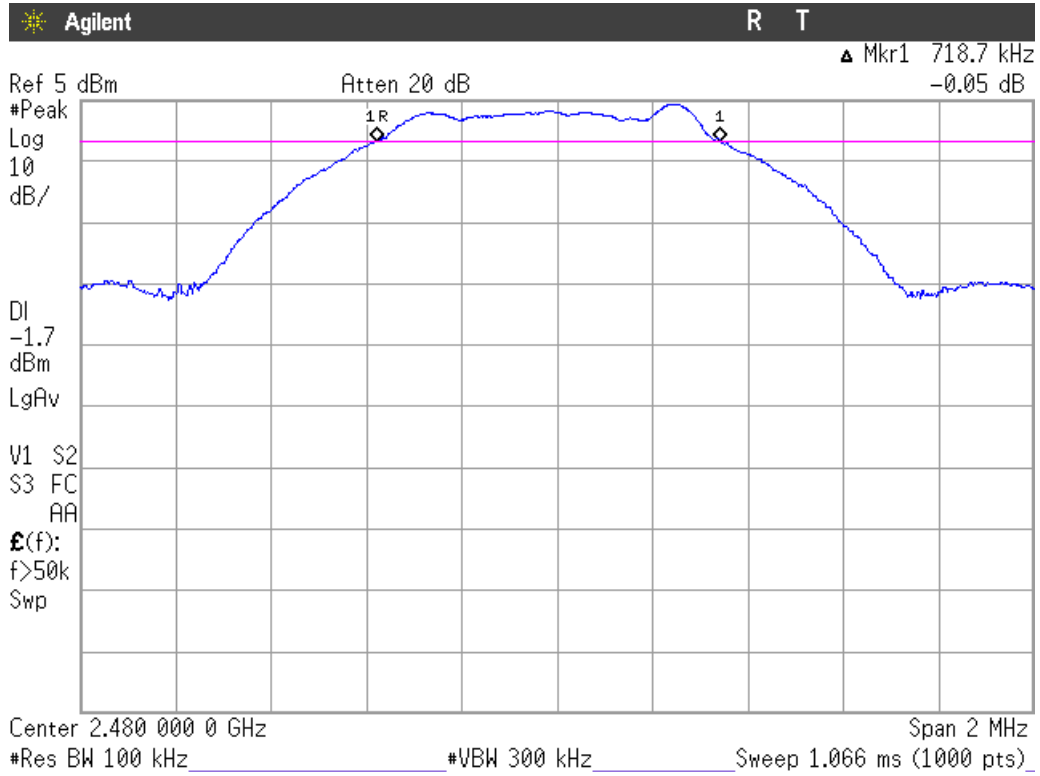
Lowest Channel



Middle Channel



### Highest Channel



**Section 15.247 Subclause (b) / RSS-247 5.4. (4). Maximum output power and antenna gain**

SPECIFICATION

For systems using digital modulation in the 2400-2483.5 MHz band: 1 watt (30 dBm).  
 The e.i.r.p. shall not exceed 4 W (36 dBm) (Canada).

RESULTS

The maximum peak conducted output power was measured using the method according to point 9.1.1. of Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 558074 D01 DTS Meas Guidance v03r03 dated 06/09/2015.

The EIRP power (dBm) is calculated by adding the declared maximum antenna gain to the measured conducted power.

MAXIMUM OUTPUT POWER. See next plots.

Maximum declared antenna gain: 1.6 dBi.

**Power target: 4 dBm (BLE BitRate:1Mbs DCC:OFF)**

	Lowest frequency 2402 MHz	Middle frequency 2440 MHz	Highest frequency 2480 MHz
Maximum conducted power (dBm)	4.26	4.27	4.27
Maximum EIRP power (dBm)	5.86	5.87	5.87
Measurement uncertainty (dB)	<±0.78		

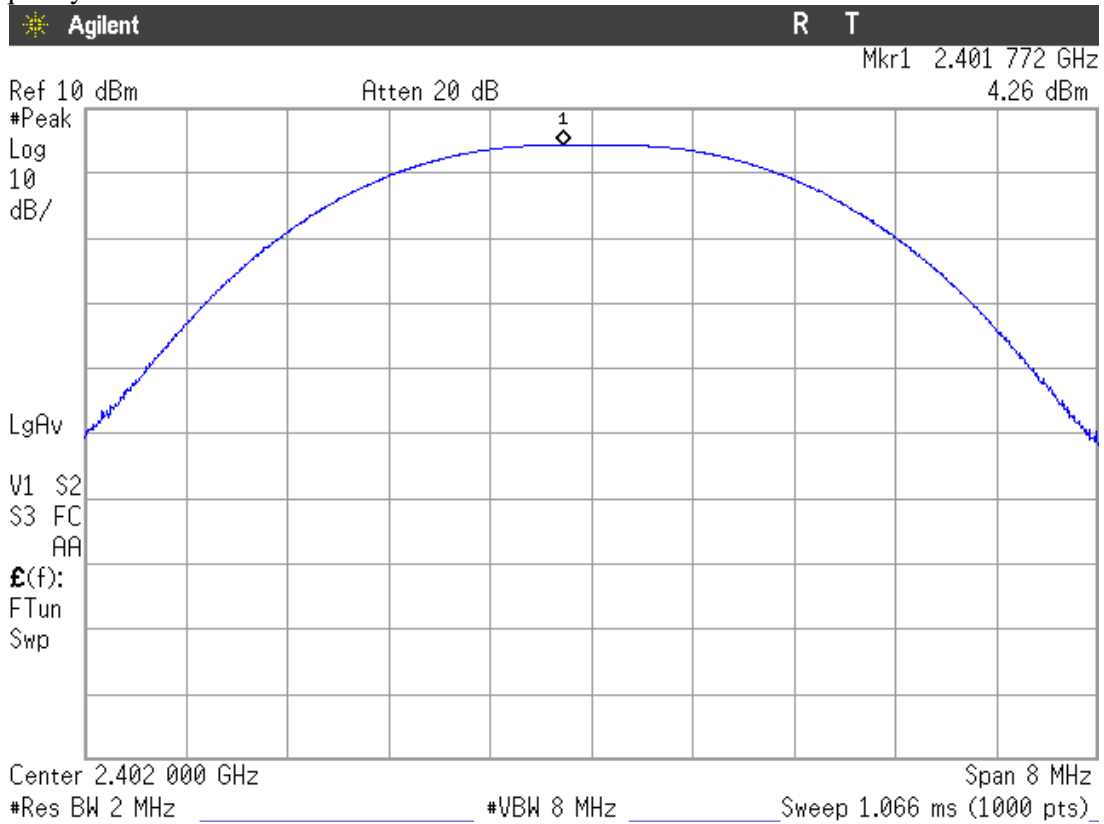
The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

Verdict: PASS

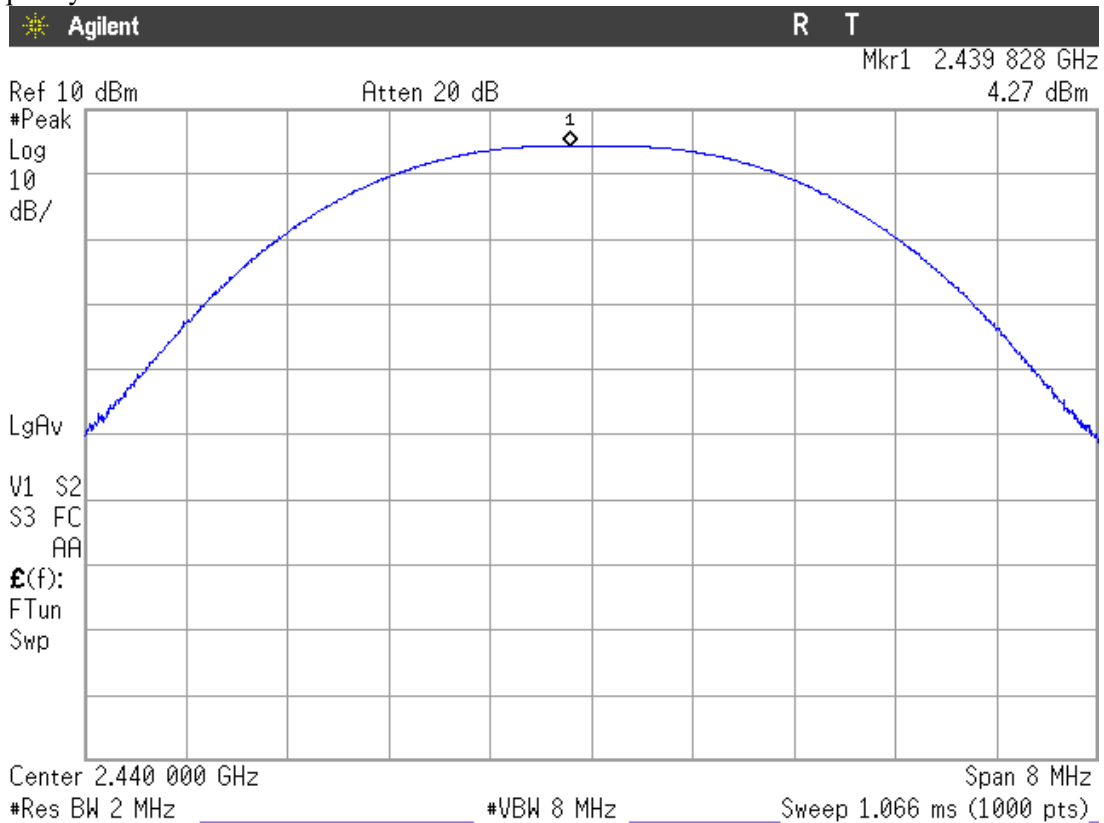
CONDUCTED PEAK POWER.

Power target: 4 dBm (BLE BitRate:1Mbs DCC:OFF)

Lowest frequency

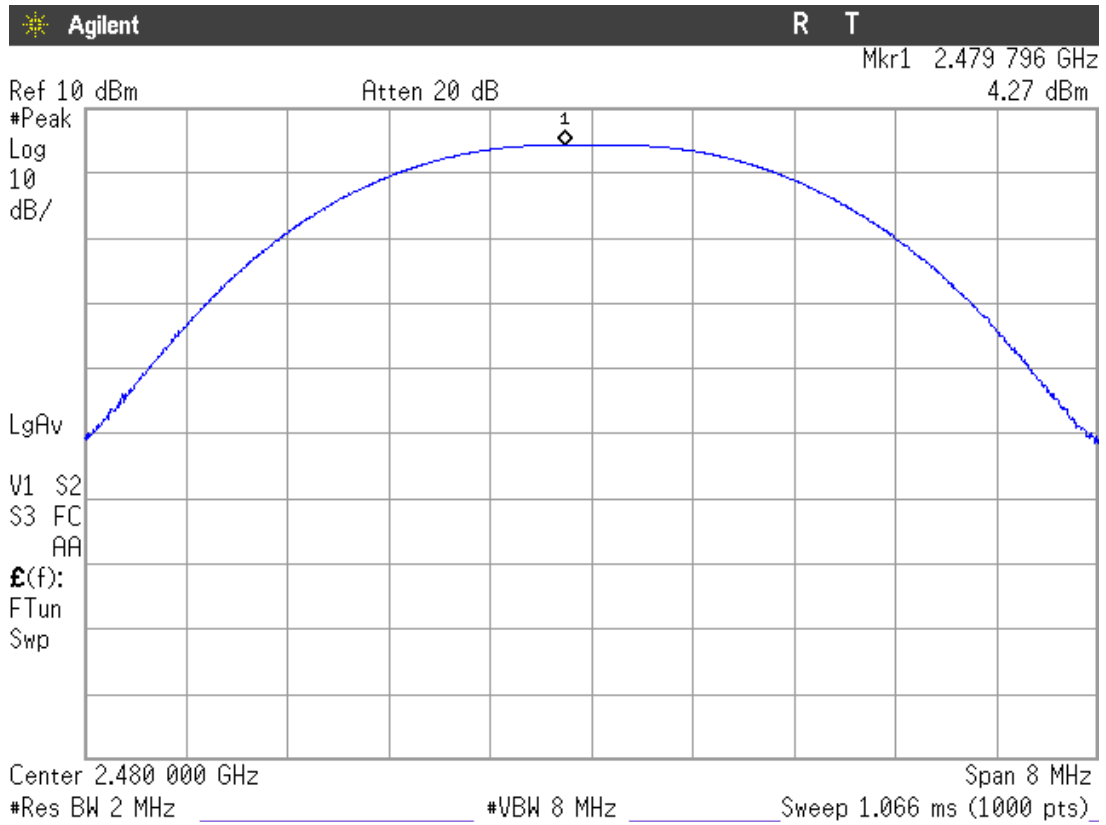


Middle frequency





Highest frequency



**Section 15.247 Subclause (d) / RSS-247 5.5. Emission limitations conducted (Transmitter)**

SPECIFICATION

In any 100 kHz bandwidth outside the frequency band in which the digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB instead of 20 dB.

RESULTS:

Reference Level Measurement

**Power target: 4 dBm (BLE BitRate:1Mbs DCC:OFF)**

	Lowest frequency 2402 MHz	Middle frequency 2440 MHz	Highest frequency 2480 MHz
Reference Level Measurement (dBm)	4.22	4.23	4.24
Measurement uncertainty (dB)	<±1.20		

Lowest frequency 2402 MHz

All peaks are more than 20 dB below the limit.

Middle frequency 2440 MHz

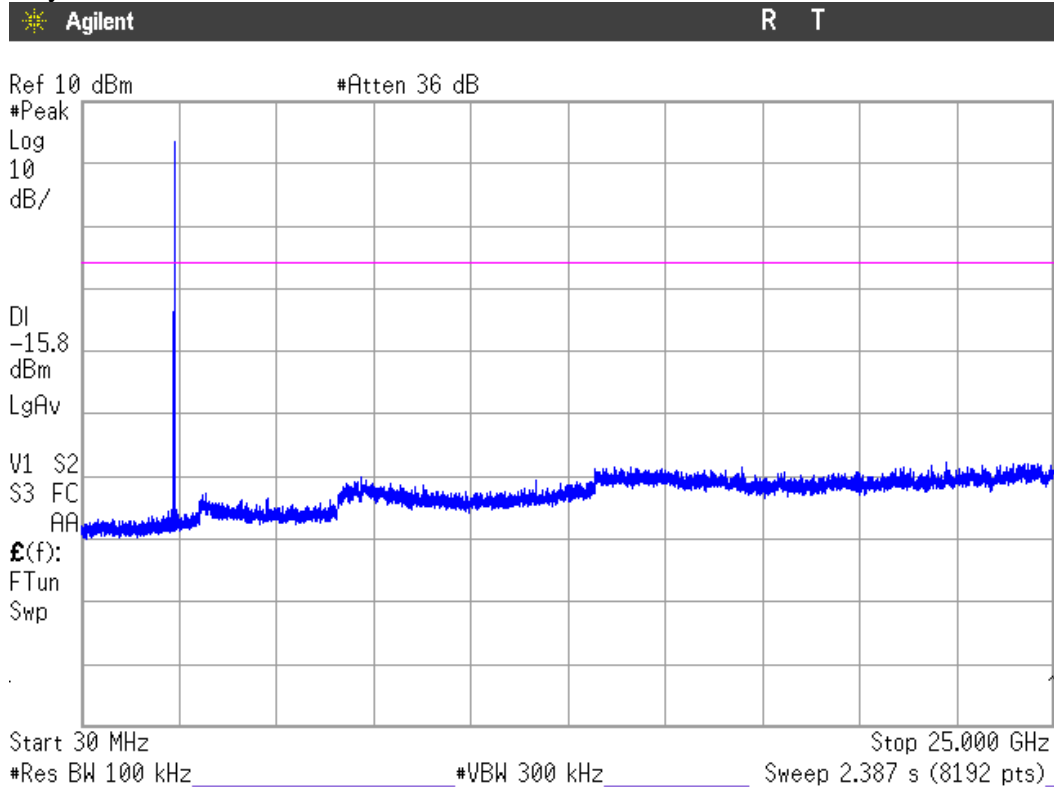
All peaks are more than 20 dB below the limit.

Highest frequency 2480 MHz

All peaks are more than 20 dB below the limit.

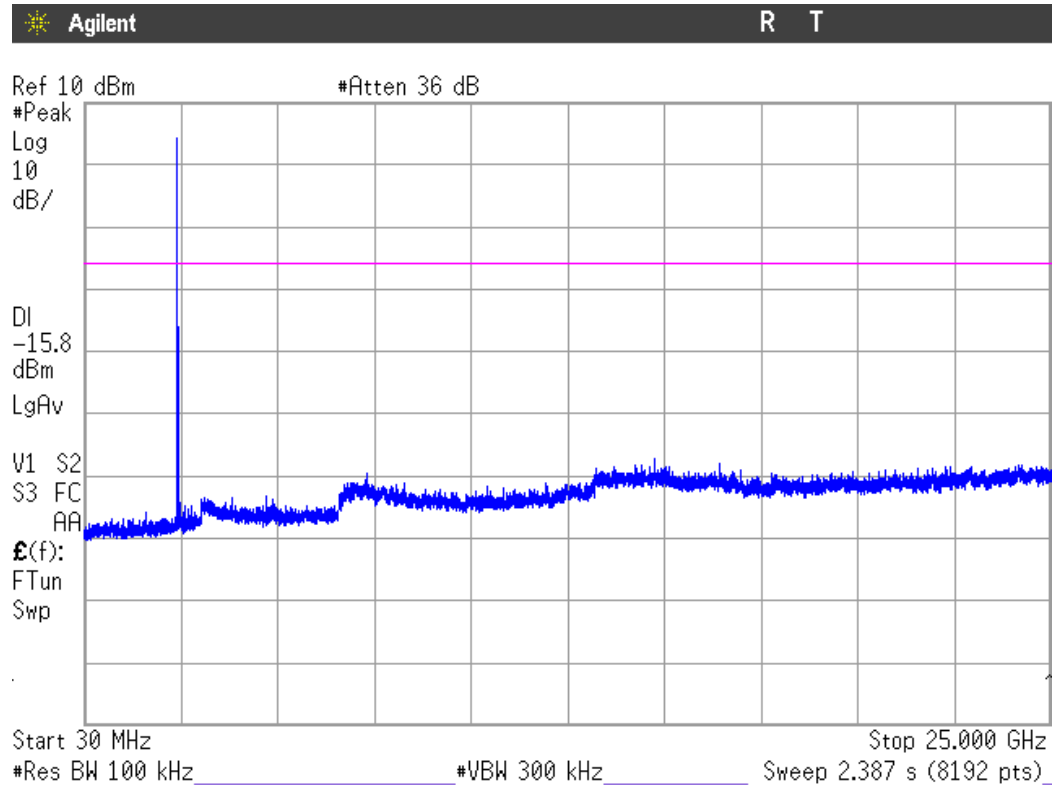
Verdict: PASS

Lowest frequency



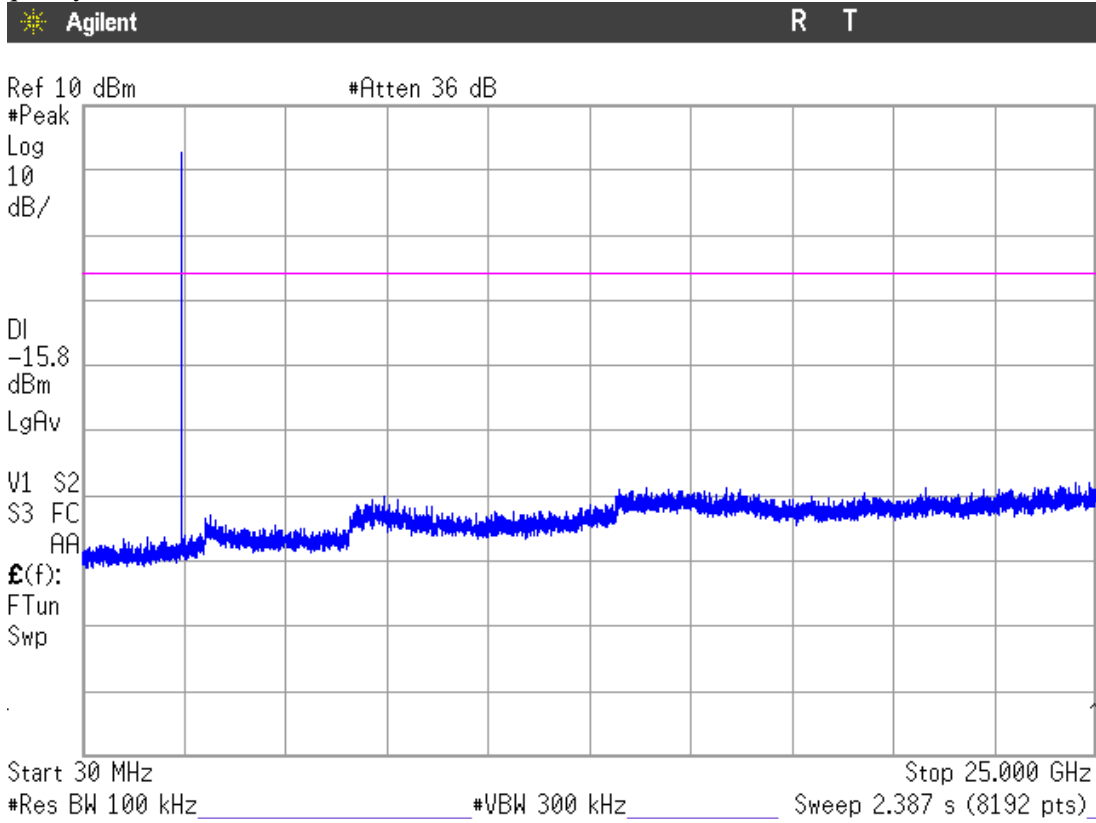
Note: The peak shown in the plot above the limit is the carrier frequency.

Middle frequency



Note: The peak shown in the plot above the limit is the carrier frequency.

Highest frequency



Note: The peak shown in the plot above the limit is the carrier frequency.

**Section 15.247 Subclause (d) / RSS-247 5.5. Band-edge emissions compliance (Transmitter)**

SPECIFICATION

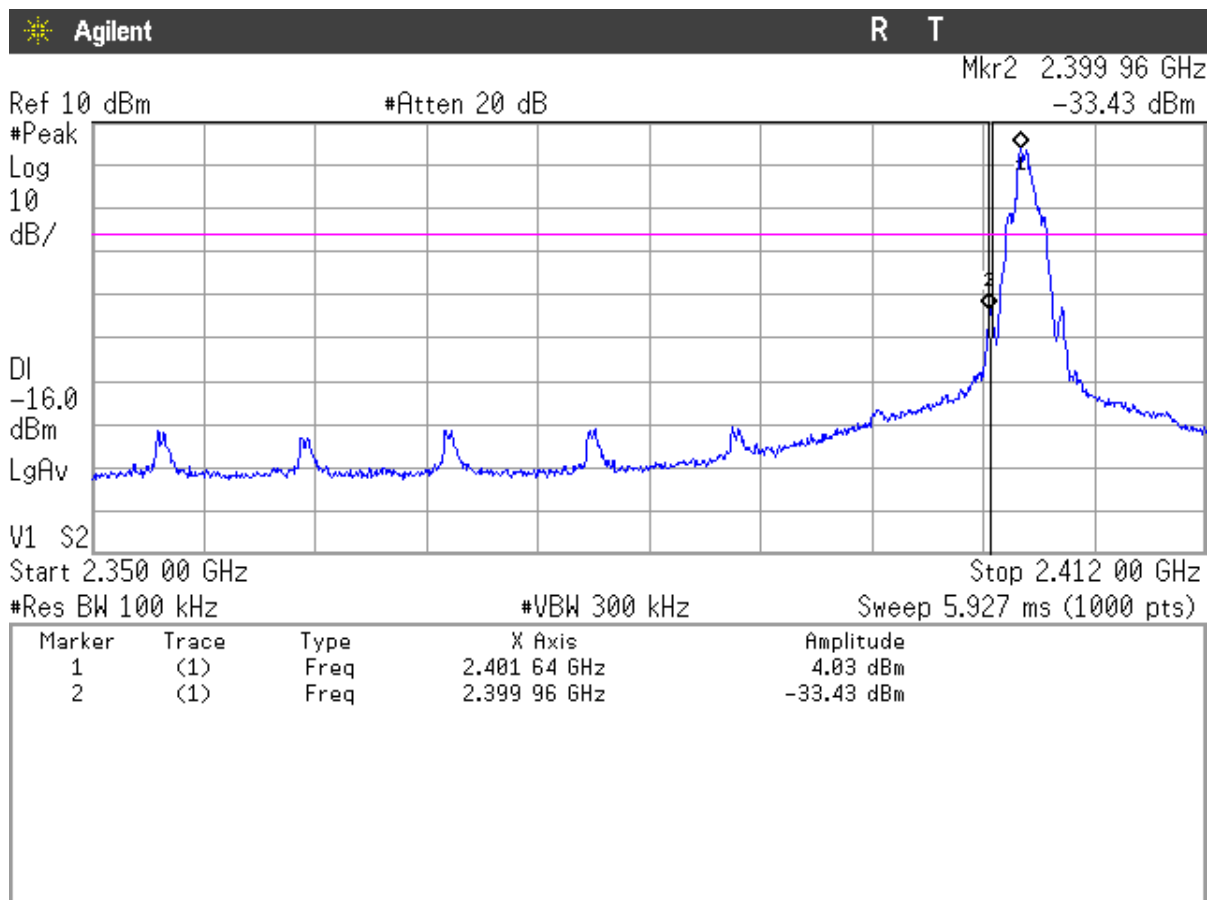
In any 100 kHz bandwidth outside the frequency band in which the digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB instead of 20 dB.

RESULTS:

**Power target: 4 dBm (nRF BitRate:2Mbs DCC:ON)**

1. LOW FREQUENCY SECTION. CONDUCTED.

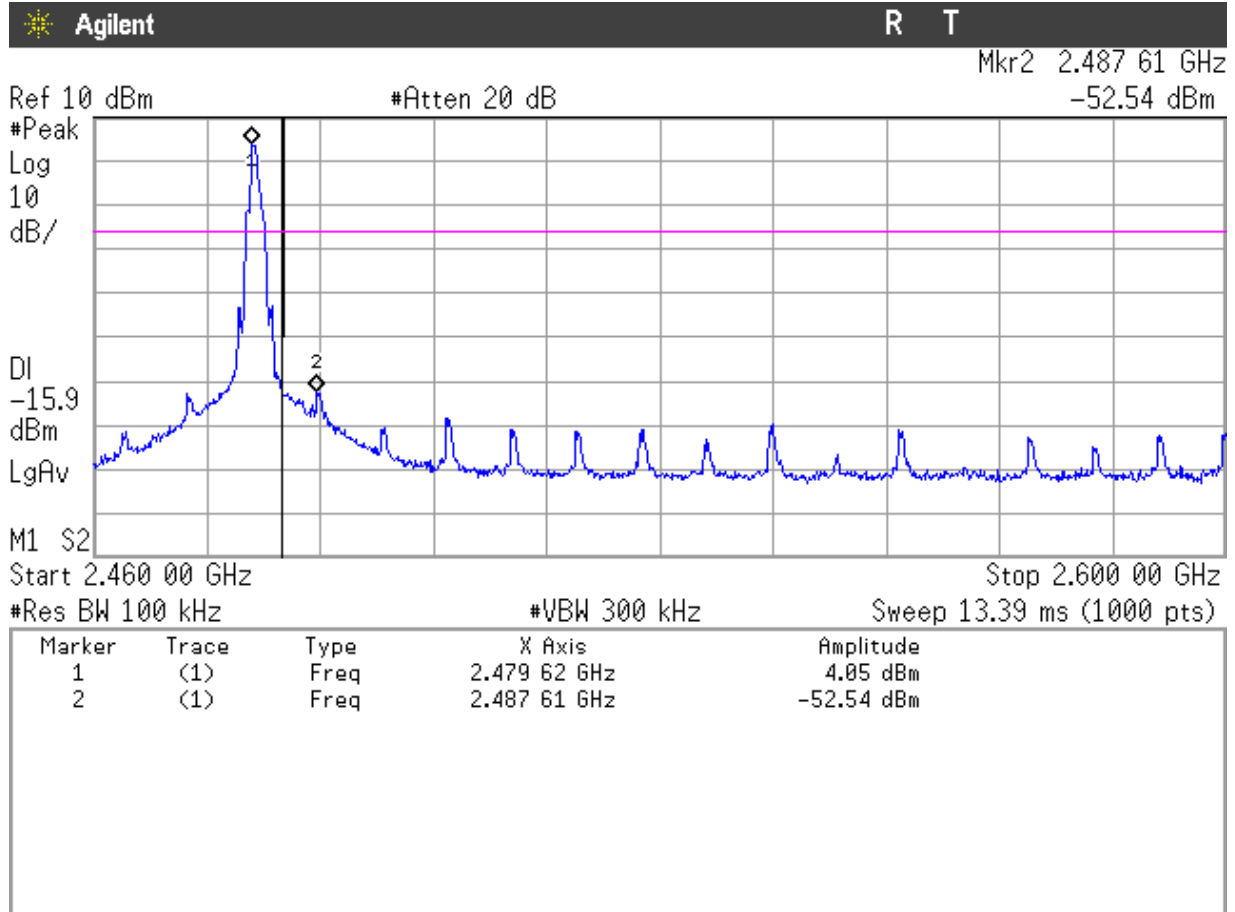
See next plot.



Verdict: PASS

2. HIGH FREQUENCY SECTION. CONDUCTED.

See next plot.



Verdict: PASS

**Section 15.247 Subclause (d) / RSS-247 5.5. 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)) / RSS-Gen 8.9.:

Frequency Range (MHz)	Field strength (µV/m)	Field strength (dBµV/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
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 situation and orientation 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 analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

**1. Frequency range 30 MHz-1000 MHz.**

**Power target: 4 dBm (BLE BitRate:1Mbs DCC:OFF)**

The spurious signals detected do not depend on the operating channel.

Spurious signals closest to limit:

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
111.383	PV	Quasi-Peak	18.50	± 3.88
925.407	PH	Quasi-Peak	24.79	± 3.88

**Power target: 4 dBm (BLE BitRate:1Mbs DCC:ON)**

The spurious signals detected do not depend on the operating channel.

Spurious signals closest to limit:

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
113.420	PV	Quasi-Peak	17.53	± 3.88
744.017	PH	Quasi-Peak	27.50	± 3.88
751.971	PV	Quasi-Peak	28.81	± 3.88
760.022	PH	Quasi-Peak	29.18	± 3.88
767.976	PH	Quasi-Peak	28.92	± 3.88
776.027	PV	Quasi-Peak	27.99	± 3.88
792.032	PV	Quasi-Peak	28.09	± 3.88

**2. Frequency range 1 GHz-25 GHz**

Spurious signals with peak levels above the average limit (54 dBµV/m at 3 m) are measured with average detector for checking compliance with the average limit.

**Power target: 4 dBm (BLE BitRate:1Mbs DCC:OFF)**

The results in the next tables show the maximum measured spurious levels in the 1-25 GHz range.

1. CHANNEL: LOWEST (2402 MHz).

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
4.8045	V	Peak	43.03	± 4.69
7.2055	V	Peak	42.86	± 4.69



2. CHANNEL: MIDDLE (2440 MHz).

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBμV/m)	Measurement Uncertainty (dB)
4.8800	V	Peak	41.08	± 4.69
7.3195	V	Peak	45.46	± 4.69

3. CHANNEL: HIGHEST (2480 MHz).

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBμV/m)	Measurement Uncertainty (dB)
4.9605	V	Peak	41.80	± 4.69
7.4405	V	Peak	43.10	± 4.69

Verdict: PASS

**Power target: 4 dBm (BLE BitRate:1Mbs DCC:ON)**

The results in the next tables show the maximum measured spurious levels in the 1-25 GHz range.

1. CHANNEL: LOWEST (2402 MHz).

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBμV/m)	Measurement Uncertainty (dB)
4.8035	V	Peak	42.69	± 4.69
7.2050	V	Peak	43.92	± 4.69

2. CHANNEL: MIDDLE (2440 MHz).

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBμV/m)	Measurement Uncertainty (dB)
4.8800	V	Peak	42.16	± 4.69
7.3190	V	Peak	44.61	± 4.69

3. CHANNEL: HIGHEST (2480 MHz).

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBμV/m)	Measurement Uncertainty (dB)
4.9595	V	Peak	42.32	± 4.69
7.4405	V	Peak	44.40	± 4.69

Verdict: PASS

**Power target: 4 dBm (nRF BitRate:2Mbs DCC:ON)**

The results in the next tables show the maximum measured levels in the restricted bands 2.31-2.39 GHz and 2.4835-2.5 GHz (see next plots).

1. CHANNEL: LOWEST (2402 MHz).

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBμV/m)	Measurement Uncertainty (dB)
2.385016	V	Peak	52.67	± 4.69
2.483737	V	Peak	54.23	± 4.69
		AVG	40.51	

2. CHANNEL: MIDDLE (2440 MHz).

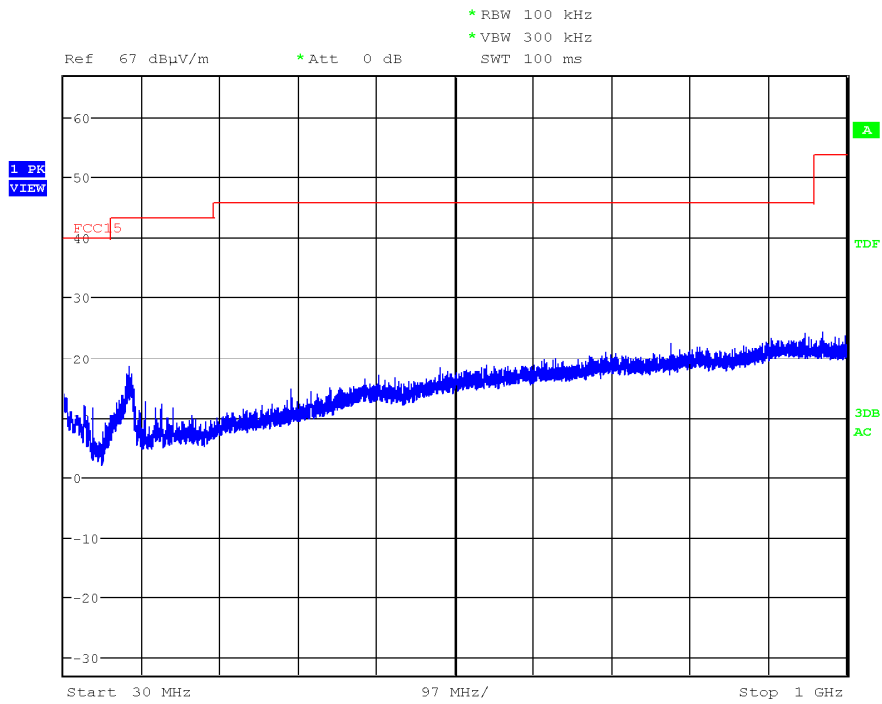
Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBμV/m)	Measurement Uncertainty (dB)
2.379088	V	Peak	52.89	± 4.69
2.491299	V	Peak	54.54	± 4.69
		AVG	40.96	

3. CHANNEL: HIGHEST (2480 MHz).

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBμV/m)	Measurement Uncertainty (dB)
2.384312	V	Peak	52.59	± 4.69
2.483501	H	Peak	58.62	± 4.69
		AVG	50.18	

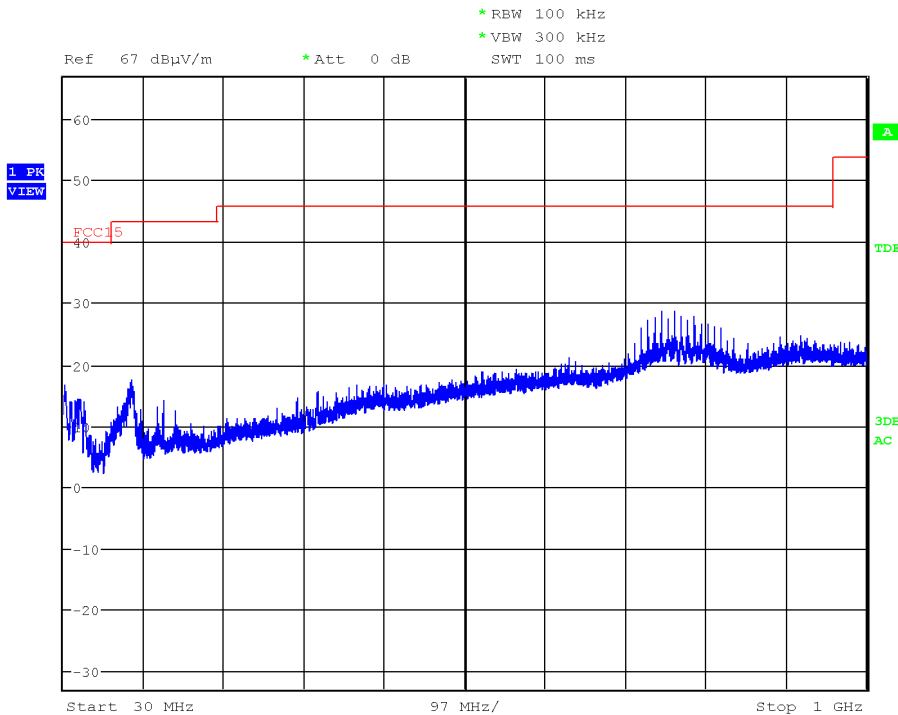
FREQUENCY RANGE 30 MHz-1000 MHz.

**Power target: 4 dBm (BLE BitRate:1Mbs DCC:OFF)**



(This plot is valid for all three channels).

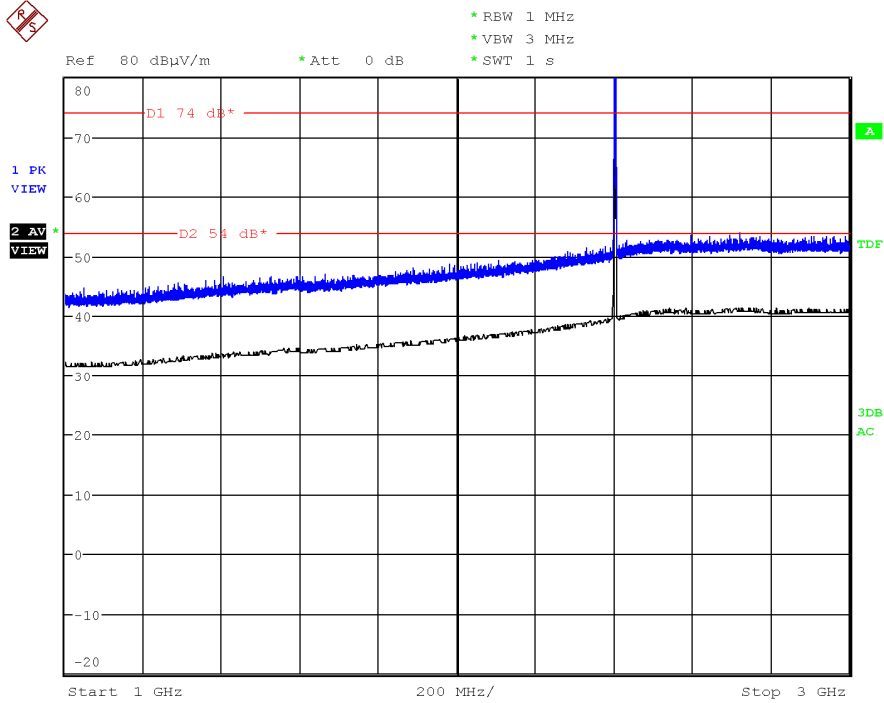
**Power target: 4 dBm (BLE BitRate:1Mbs DCC:ON)**



(This plot is valid for all three channels).

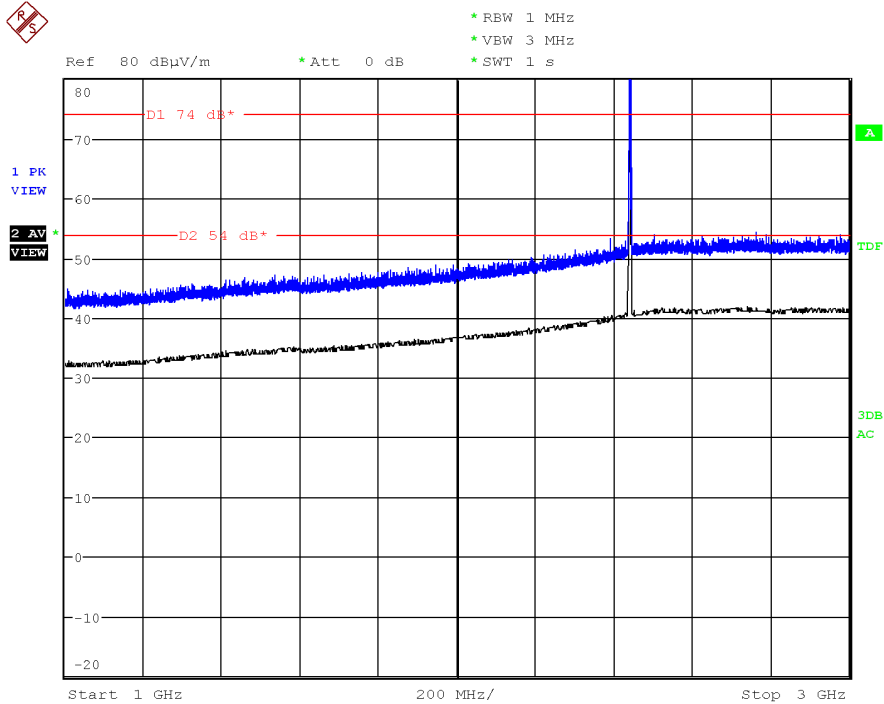
**Power target: 4 dBm (BLE BitRate:1Mbs DCC:OFF)**

FREQUENCY RANGE 1 GHz to 3 GHz.  
 CHANNEL: Lowest (2402 MHz).



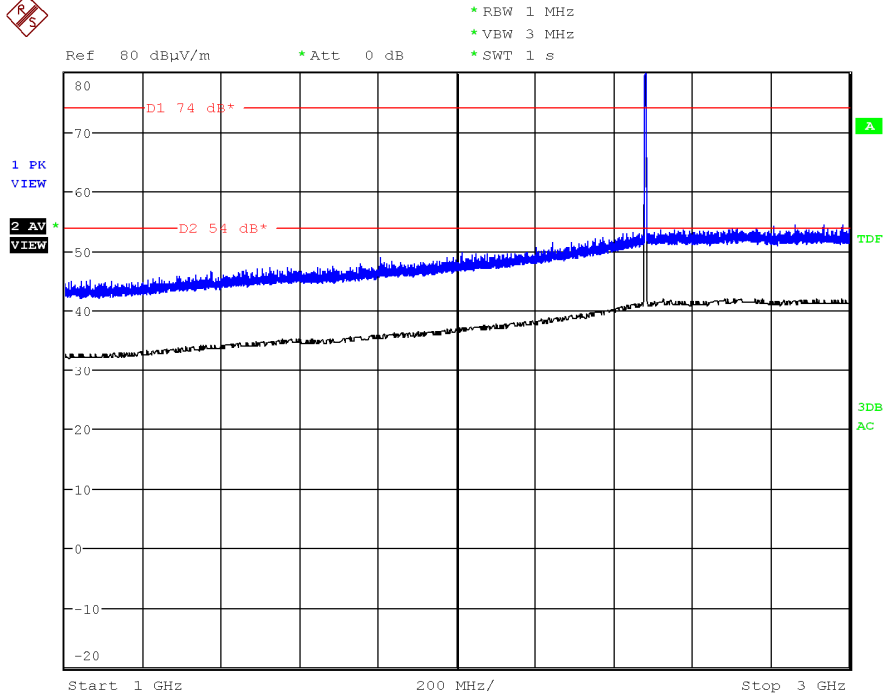
Note: The peak shown in the plot above the limit is the carrier frequency.

**CHANNEL: Middle (2440 MHz).**



Note: The peak shown in the plot above the limit is the carrier frequency.

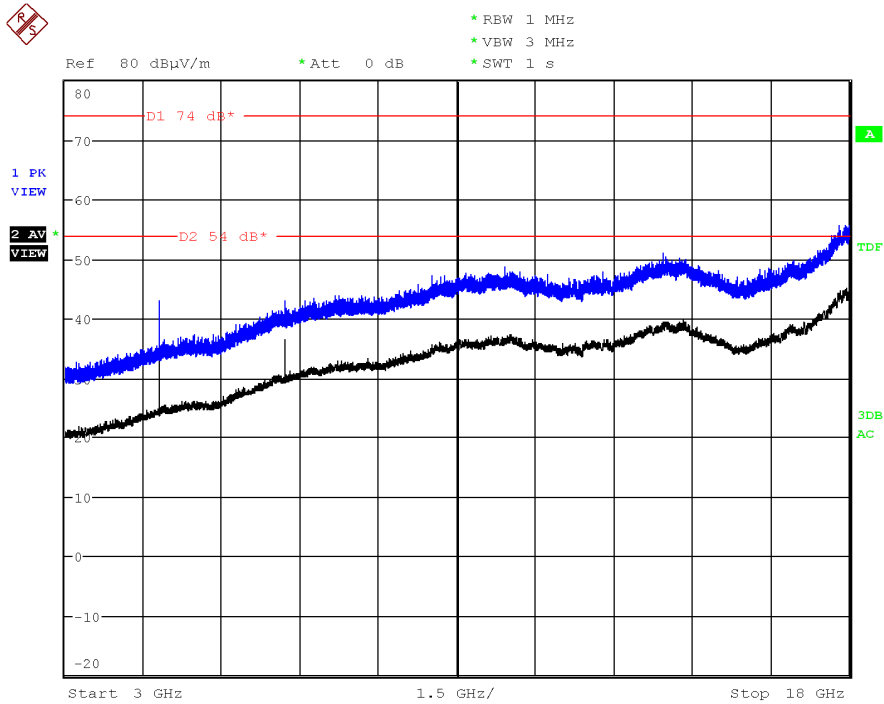
**CHANNEL: Highest (2480 MHz).**



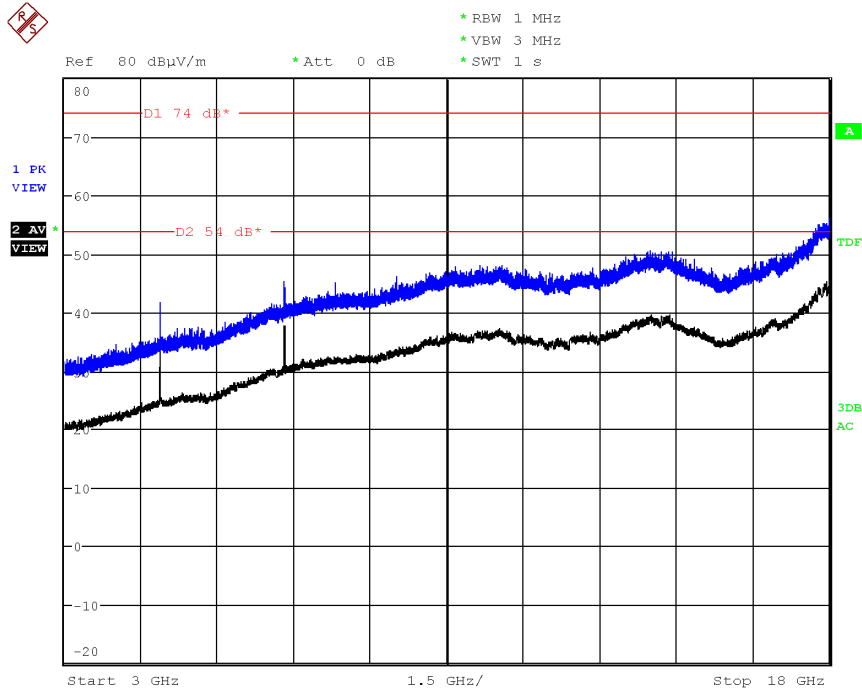
Note: The peak shown in the plot above the limit is the carrier frequency.

FREQUENCY RANGE 3 GHz to 18 GHz.

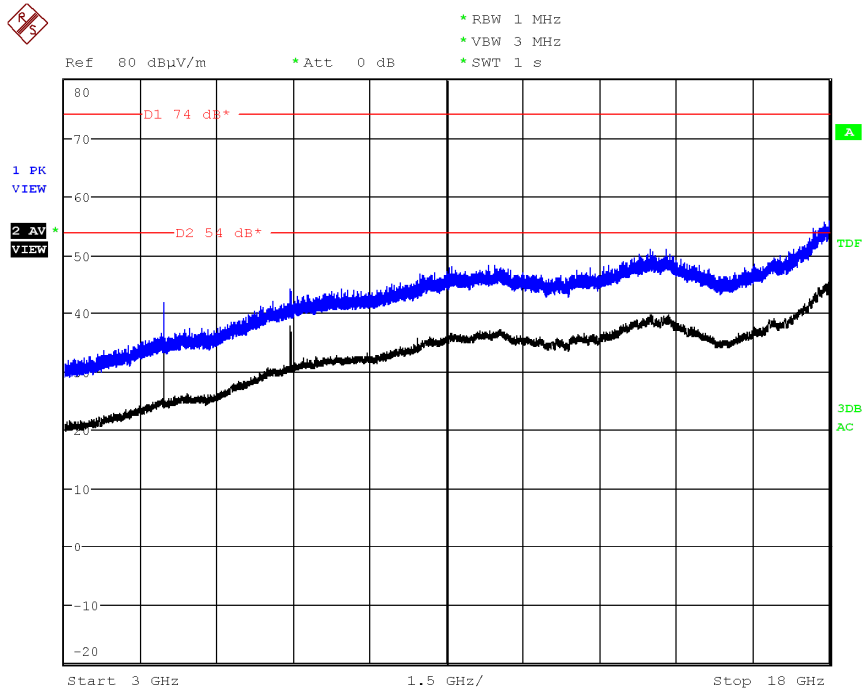
**CHANNEL: Lowest (2402 MHz).**



**CHANNEL: Middle (2440 MHz).**

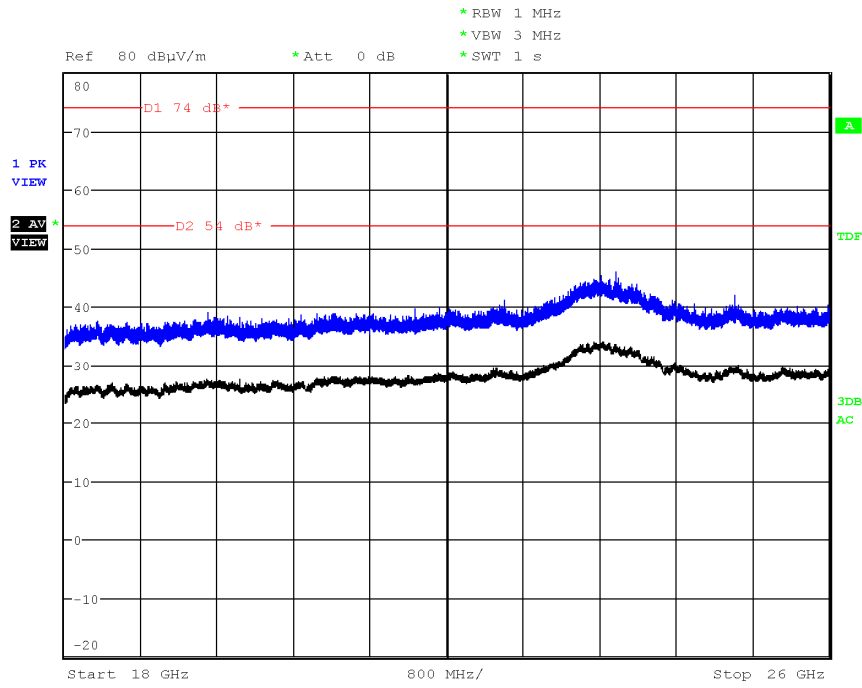


**CHANNEL: Highest (2480 MHz).**



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FREQUENCY RANGE 18 GHz to 26 GHz.

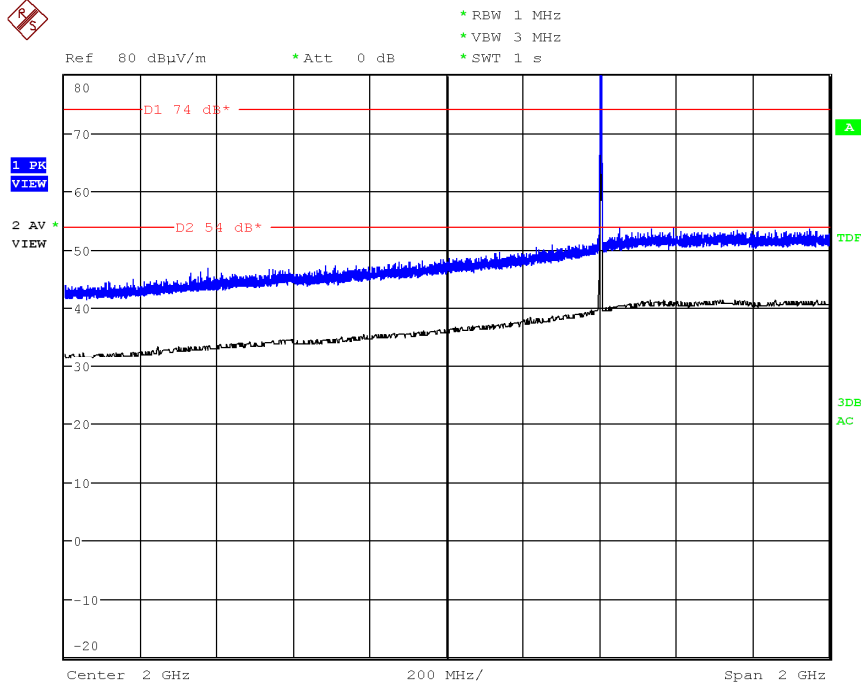


(This plot is valid for all three channels).

**Power target: 4 dBm (BLE BitRate:1Mbs DCC:ON)**

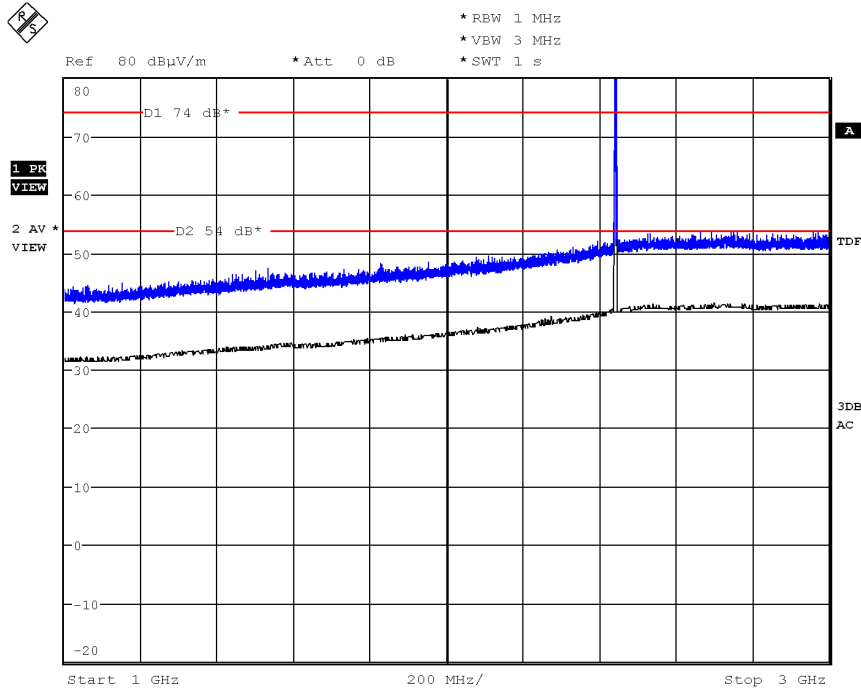
FREQUENCY RANGE 1 GHz to 3 GHz.

**CHANNEL: Lowest (2402 MHz).**



Note: The peak shown in the plot above the limit is the carrier frequency.

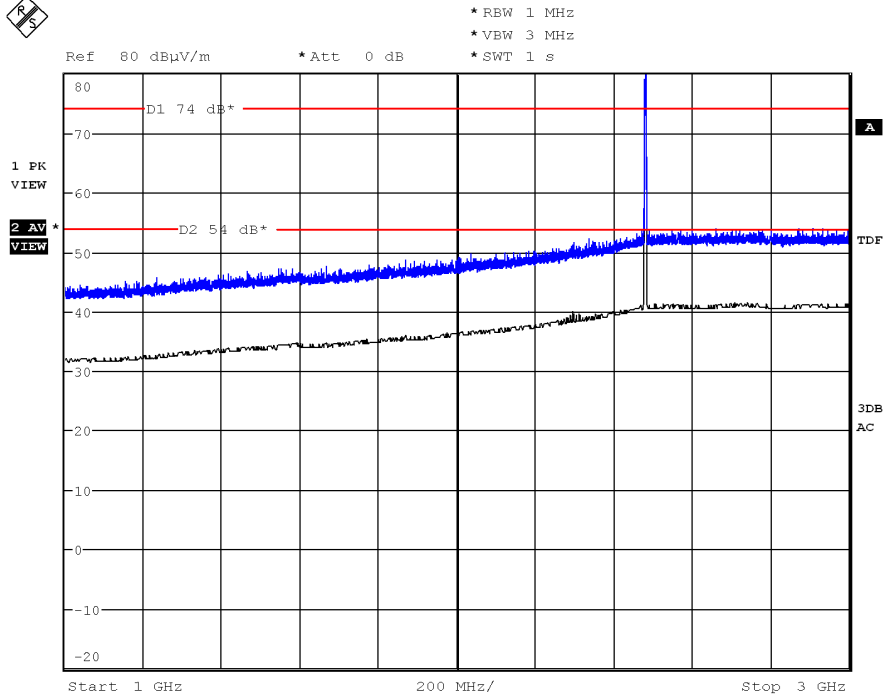
**CHANNEL: Middle (2440 MHz).**



Note: The peak shown in the plot above the limit is the carrier frequency.



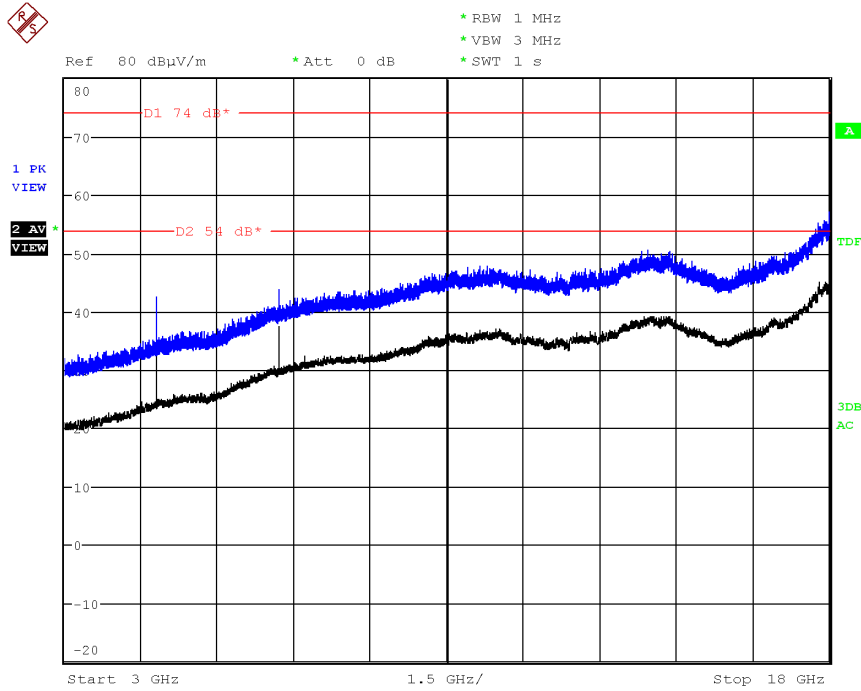
**CHANNEL: Highest (2480 MHz).**



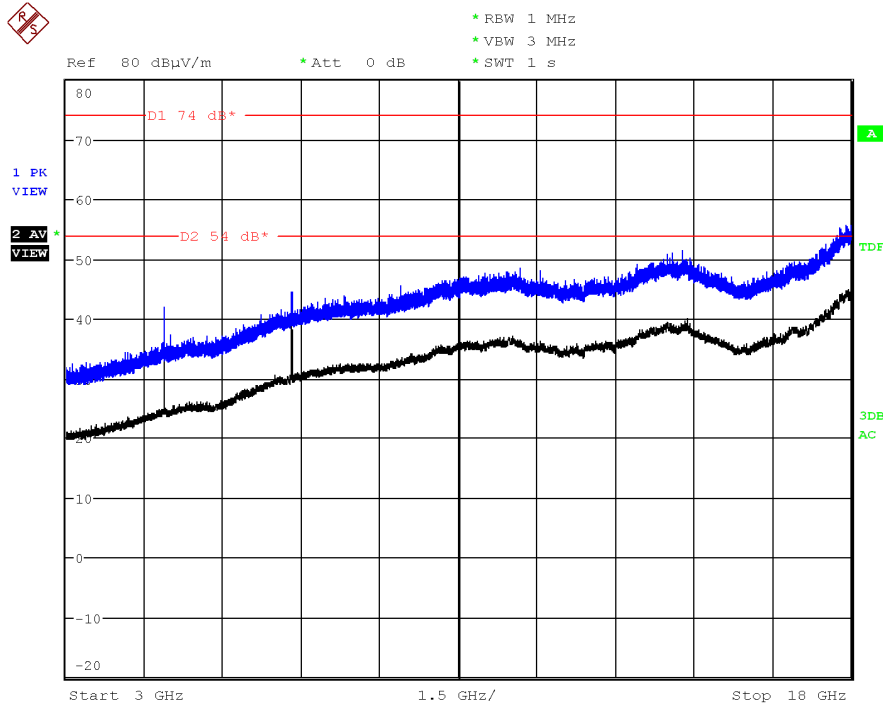
Note: The peak shown in the plot above the limit is the carrier frequency.

**FREQUENCY RANGE 3 GHz to 18 GHz.**

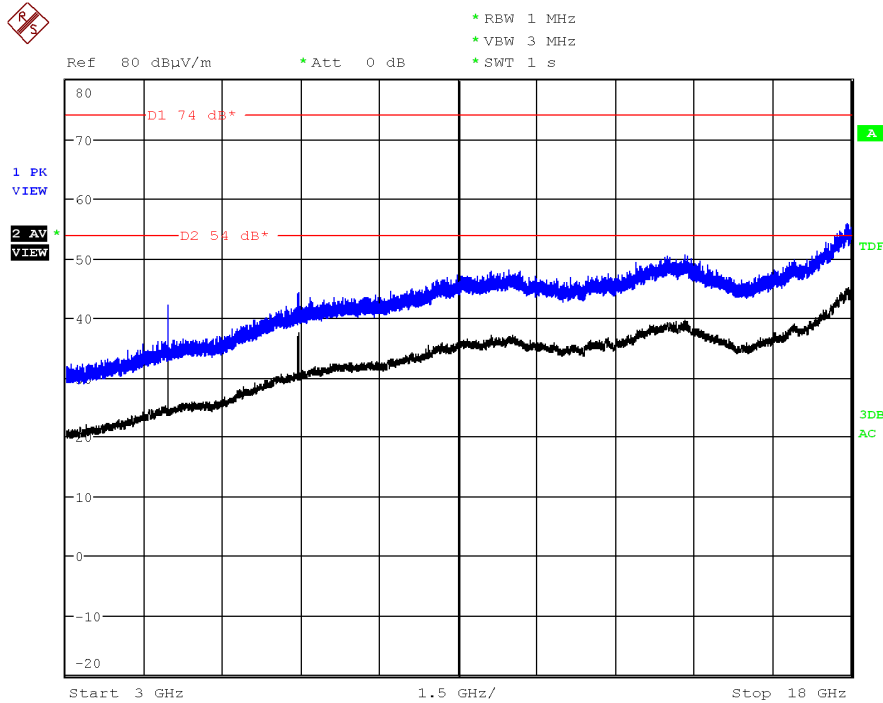
**CHANNEL: Lowest (2402 MHz).**



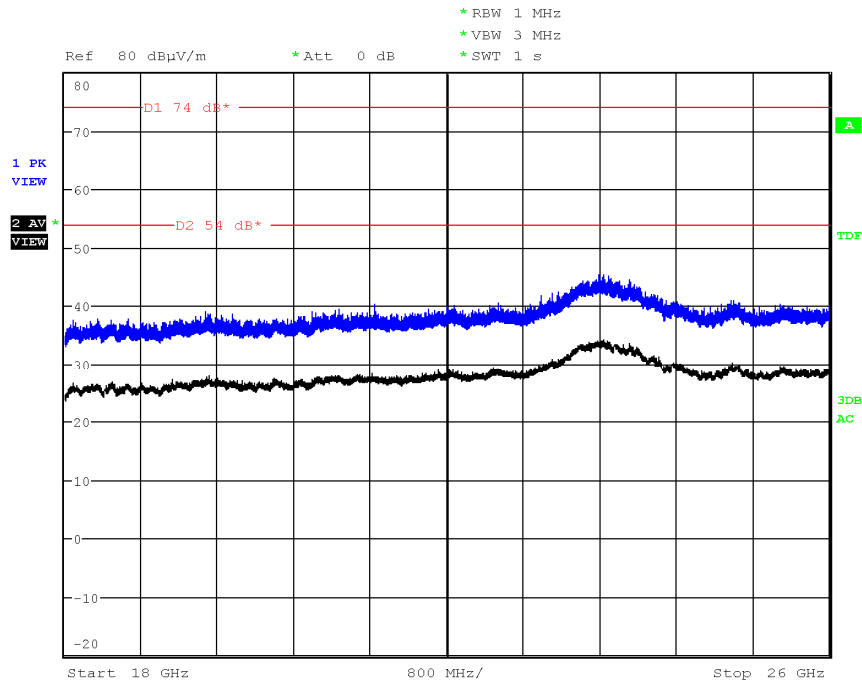
**CHANNEL: Middle (2440 MHz).**



**CHANNEL: Highest (2480 MHz).**



FREQUENCY RANGE 18 GHz to 26 GHz.

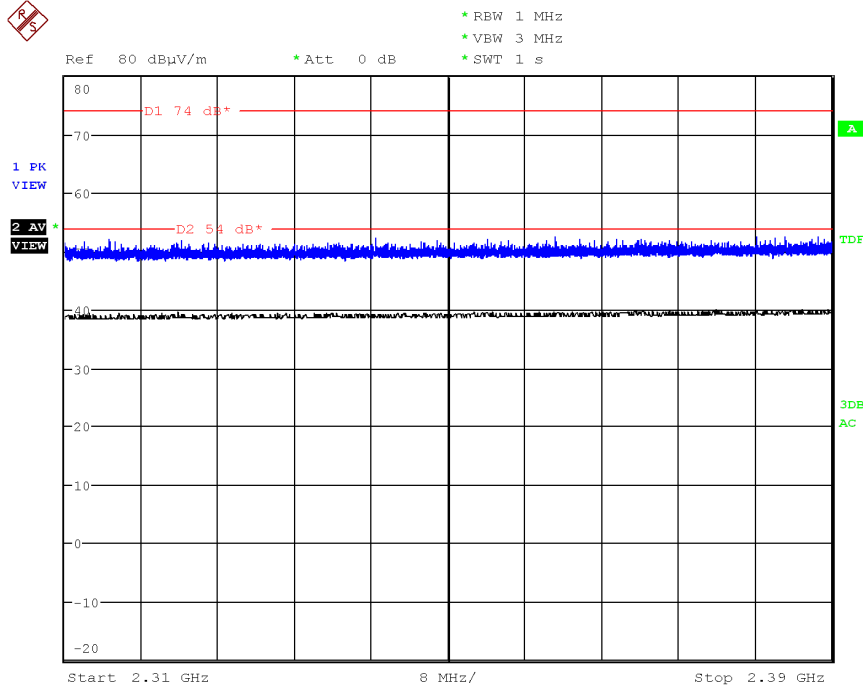


(This plot is valid for all three channels).

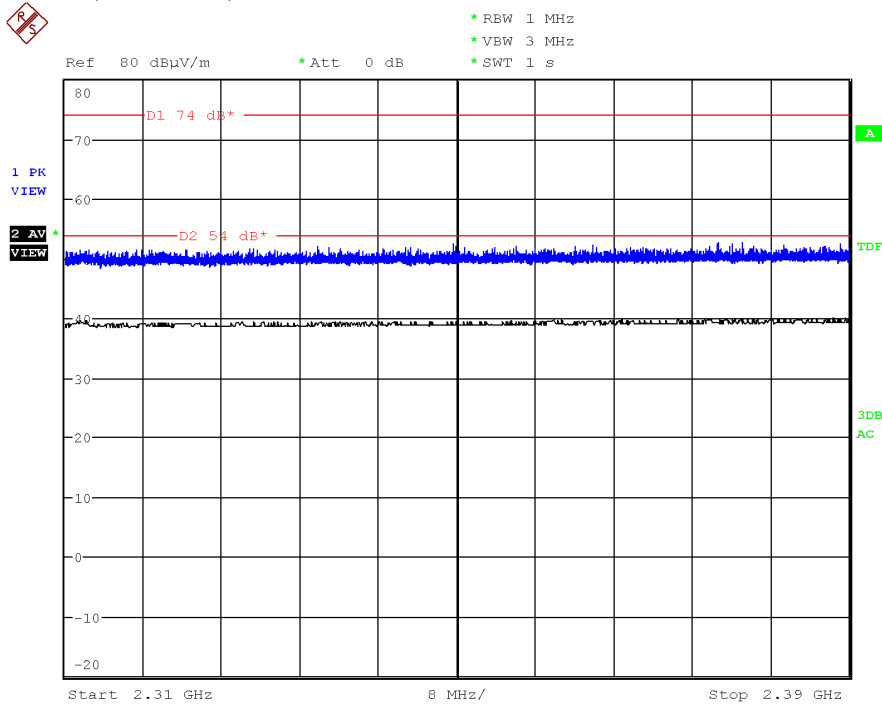
**Power target: 4 dBm (nRF BitRate:2Mbs DCC:ON)**

**FREQUENCY RANGE 2.31 GHz to 2.39 GHz. (RESTRICTED BAND)**

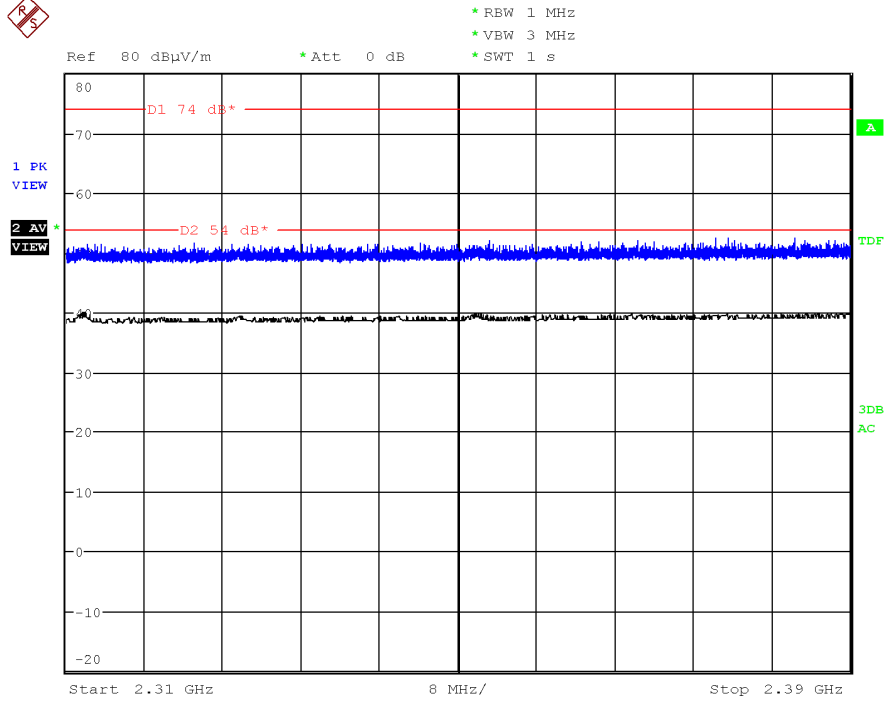
**CHANNEL: Lowest (2402 MHz).**



**CHANNEL: Middle (2440 MHz).**

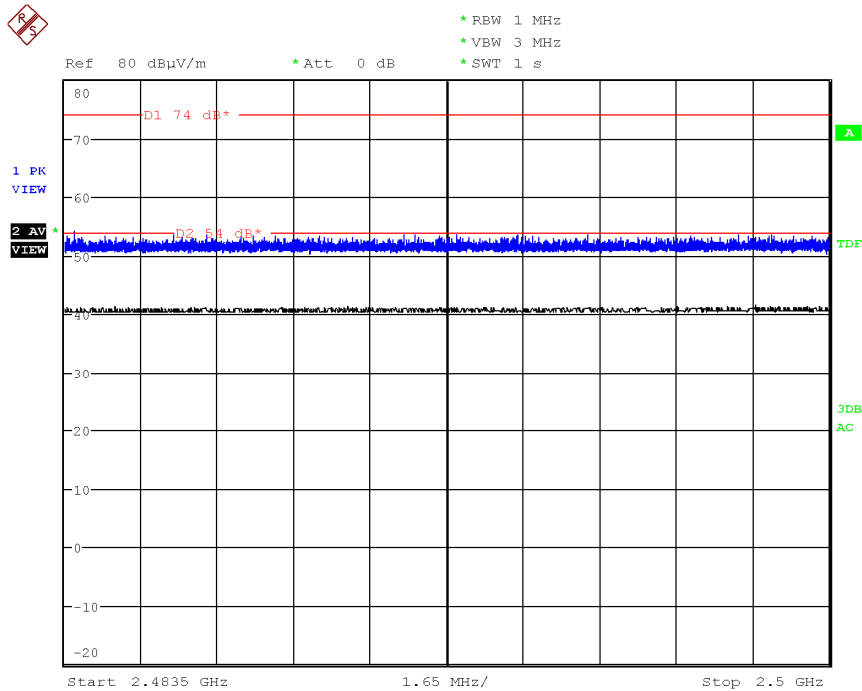


**CHANNEL: Highest (2480 MHz).**

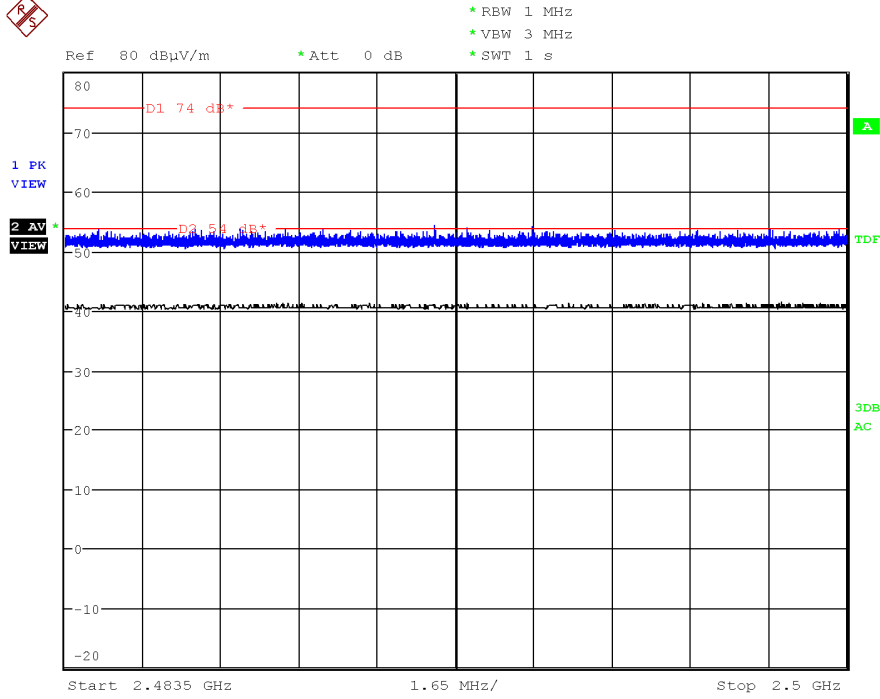


**FREQUENCY RANGE 2.4835 GHz to 2.5 GHz. (RESTRICTED BAND)**

**CHANNEL: Lowest (2402 MHz).**



**CHANNEL: Middle (2440 MHz).**



**CHANNEL: Highest (2480 MHz).**

