Test data, continued

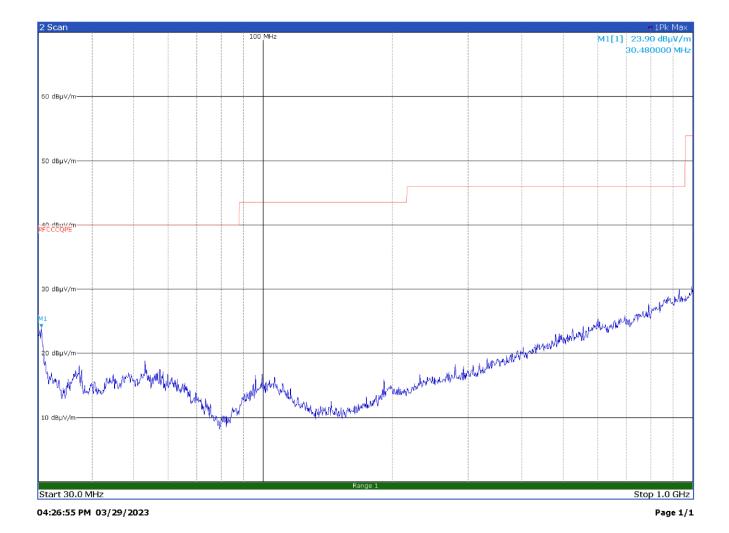
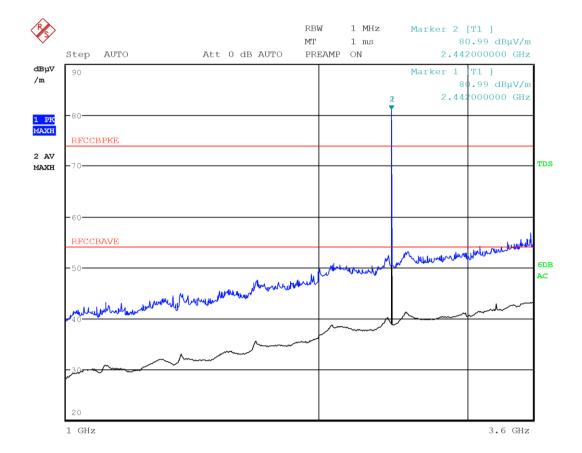


Figure 8.5-34: Radiated spurious emissions on mid channel with EUT in vertical position - antenna in vertical polarization 8dpsk

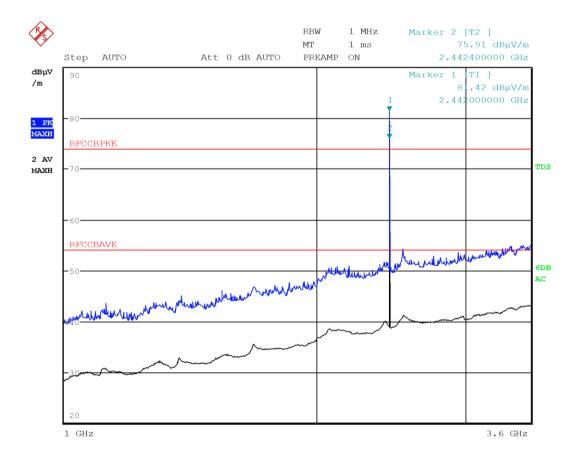
Frequency	Level	Limit	Margin	Detector
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	



Date: 24.MAR.2023 17:09:37

Figure 8.5-35: Radiated spurious emissions on mid channel with EUT in vertical position - antenna in horizontal polarization 8DPSK

Limit exceeded by the carrier



Date: 24.MAR.2023 17:11:07

Figure 8.5-36: Radiated spurious emissions on mid channel with EUT in vertical position - antenna in vertical polarization 8DPSK

Limit exceeded by the carrier

Testing data

Spurious (out-of-band) unwanted emissions

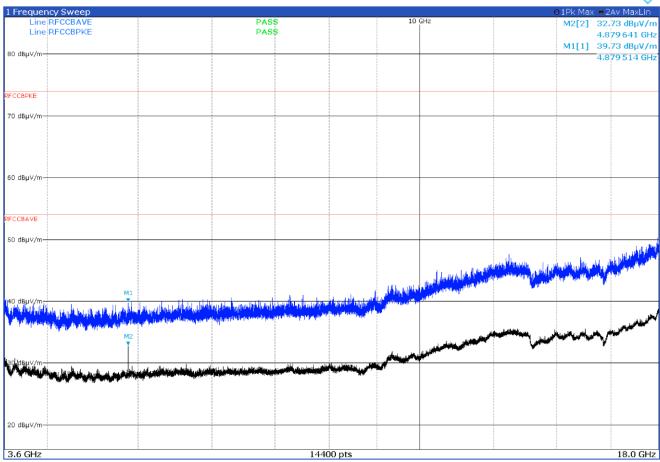
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Test data, continued

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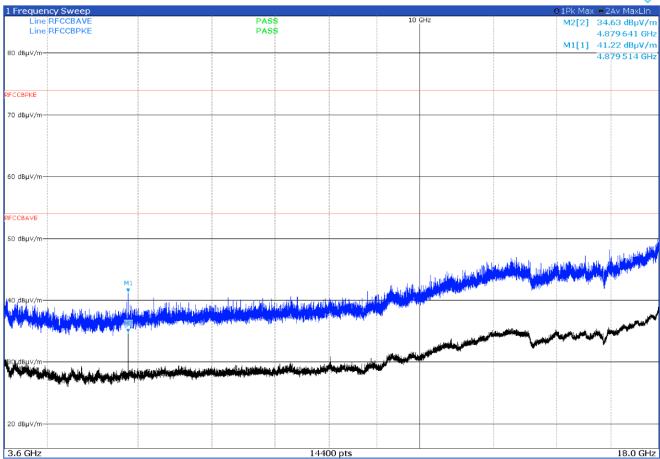
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Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector

Figure 8.5-37: Radiated spurious emissions on mid channel with EUT in vertical position - antenna in horizontal polarization 8DPSK





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Figure 8.5-38: Radiated spurious emissions on mid channel with EUT in vertical position - antenna in vertical polarization 8DPSK

Frequency	Level	Limit	Margin	Detector
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	

Spurious (out-of-band) unwanted emissions RSS-247, Issue 2

Test data, continued

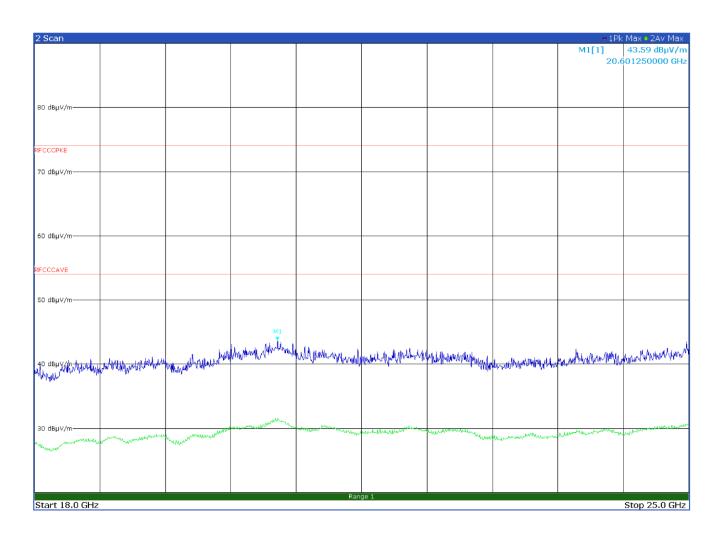


Figure 8.5-39: Radiated spurious emissions on mid channel with EUT in vertical position - antenna in horizontal polarization 8DPSK

No spurious emissions found

Spurious (out-of-band) unwanted emissions RSS-247, Issue 2

Test data, continued

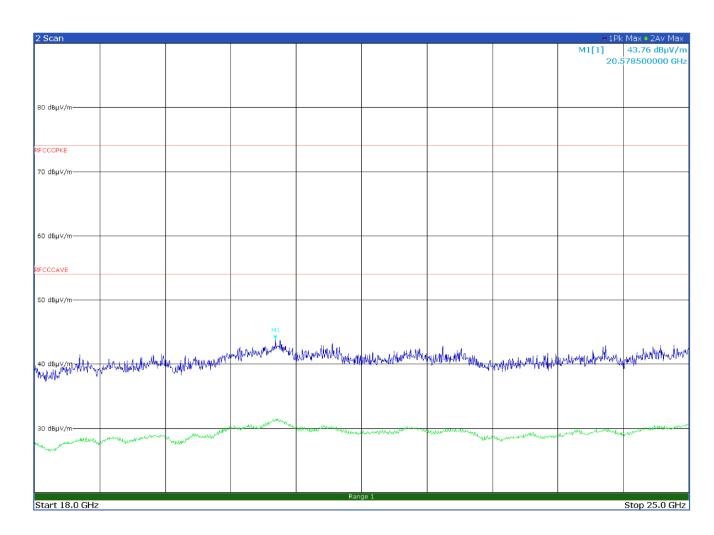
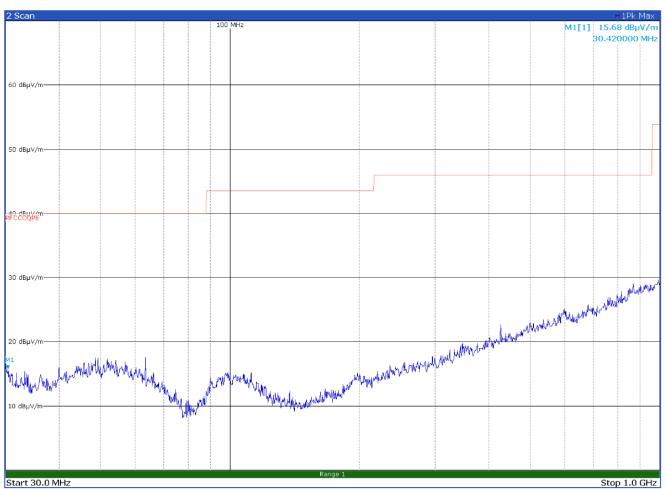


Figure 8.5-40: Radiated spurious emissions on mid channel with EUT in vertical position - antenna in vertical polarization 8DPSK

No spurious emissions found

Spurious (out-of-band) unwanted emissions

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Figure 8.5-41: Radiated spurious emissions on high channel with EUT in vertical position - antenna in horizontal polarization 8DPSK

Frequency	Level	Limit	Margin	Detector
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	

Testing data

Spurious (out-of-band) unwanted emissions RSS-247, Issue 2

Test data, continued

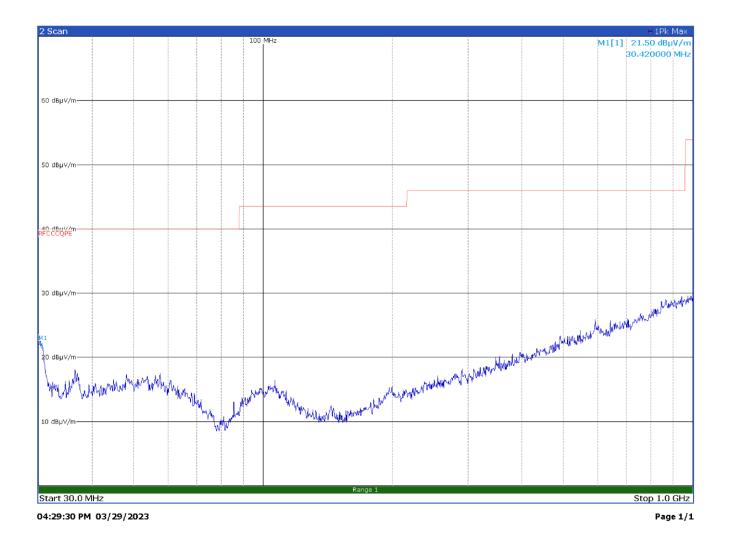
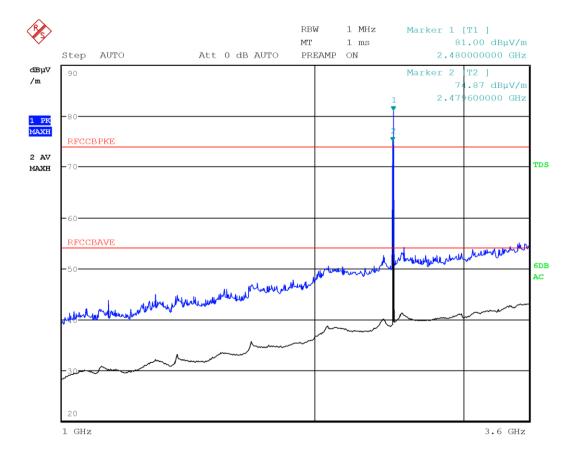


Figure 8.5-42: Radiated spurious emissions on high channel with EUT in vertical position - antenna in vertical polarization 8DPSK

Frequency	Level	Limit	Margin	Detector
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	

Test data, continued



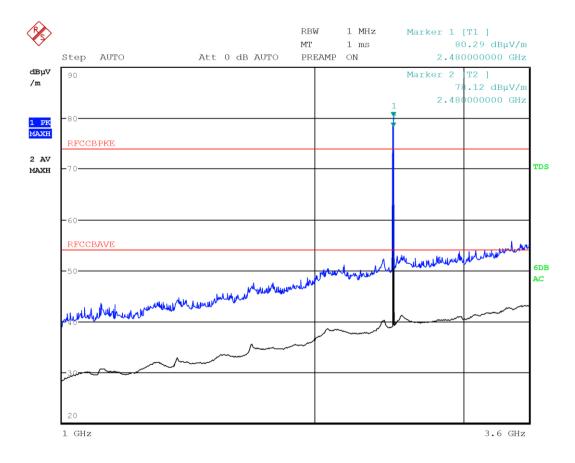
Date: 24.MAR.2023 17:14:36

Figure 8.5-43: Radiated spurious emissions on high channel with EUT in vertical position - antenna in horizontal polarization 8DPSK

Limit exceeded by the carrier

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Test data, continued



Date: 24.MAR.2023 17:13:15

Figure 8.5-44: Radiated spurious emissions on high channel with EUT in vertical position - antenna in vertical polarization 8DPSK

Limit exceeded by the carrier

Testing data

Spurious (out-of-band) unwanted emissions RSS-247, Issue 2

Test data, continued

16:12:41 28.03.2023



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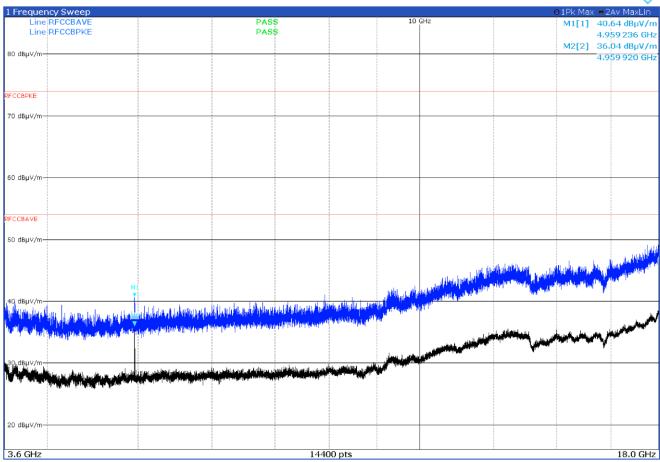
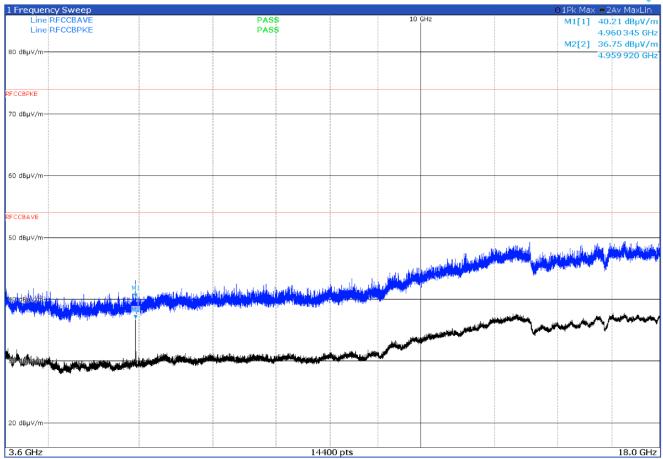


Figure 8.5-45: Radiated spurious emissions on high channel with EUT in vertical position - antenna in horizontal polarization 8DPSK

Frequency	Level	Limit	Margin	Detector
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	





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Figure 8.5-46: Radiated spurious emissions on high channel with EUT in vertical position - antenna in vertical polarization 8DPSK

Frequency	Level	Limit	Margin	Detector
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	

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Test data, continued

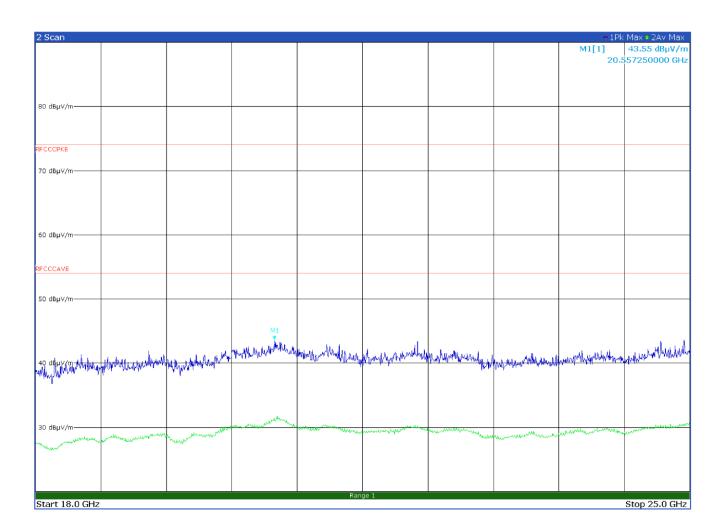


Figure 8.5-47: Radiated spurious emissions on high channel with EUT in vertical position - antenna in horizontal polarization 8DPSK

No spurious emissions found

Testing data

Spurious (out-of-band) unwanted emissions RSS-247, Issue 2

Test data, continued

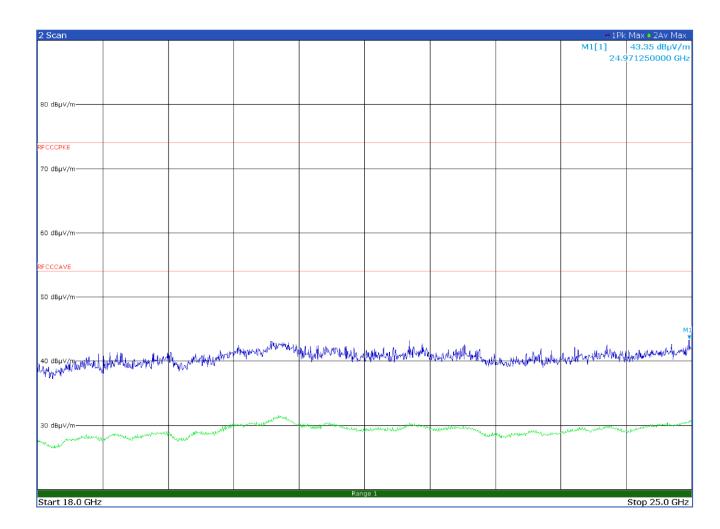


Figure 8.5-48: Radiated spurious emissions on high channel with EUT in vertical position - antenna in vertical polarization 8DPSK

No spurious emissions found

Testing data Spurious (out-of-band) unwanted emissions

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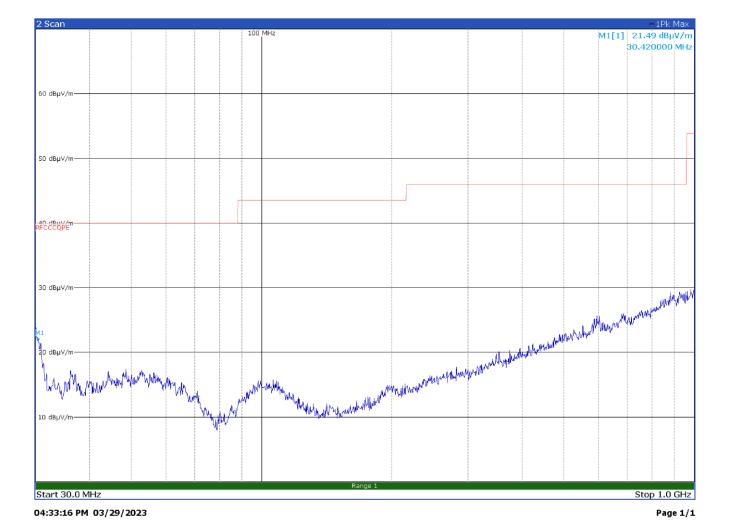
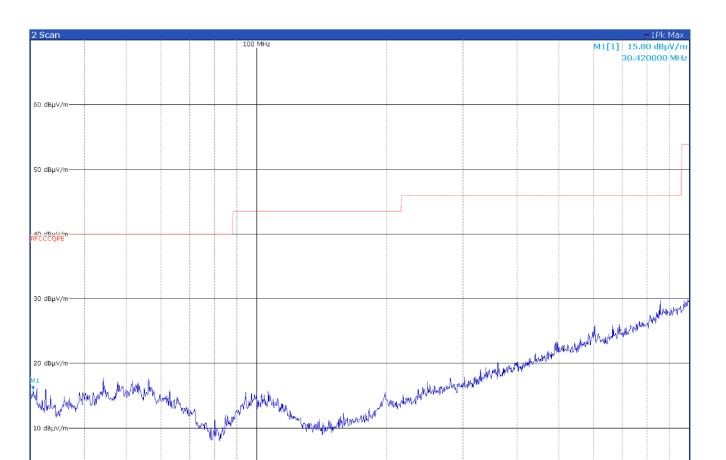


Figure 8.5-45: Radiated spurious emissions on low channel with EUT in vertical position - antenna in vertical polarization $\pi/4$ -DQPSK

Start 30.0 MHz

Testing data Spurious (out-of-band) unwanted emissions

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Stop 1.0 GHz

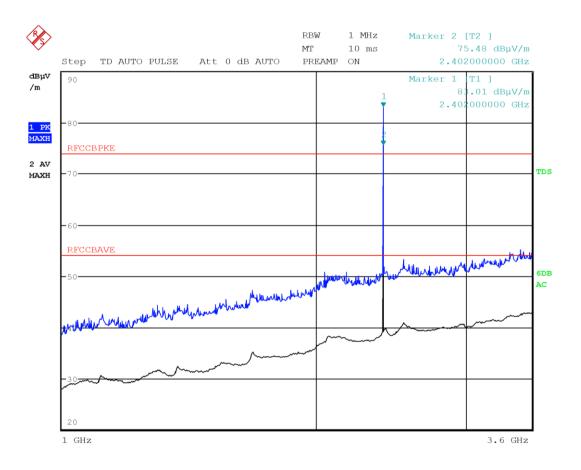
Figure 8.5-45: Radiated spurious emissions on low channel with EUT in vertical position - antenna in horizontal polarization $\pi/4$ -DQPSK



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Spurious (out-of-band) unwanted emissions

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Figure 8.5-45: Radiated spurious emissions on low channel with EUT in vertical position - antenna in vertical polarization $\pi/4$ -DQPSK

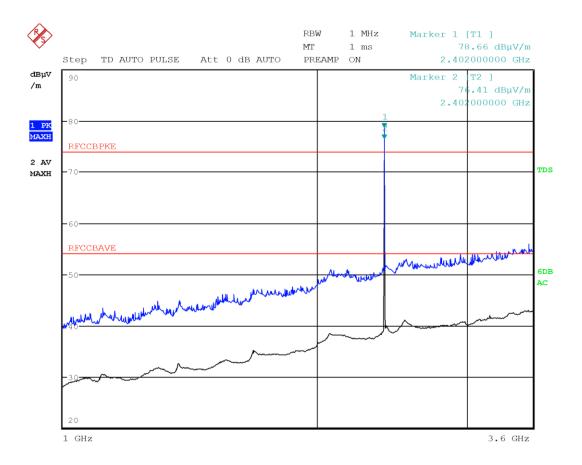
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name Spurious (out-of-band) unwanted emissions

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Figure 8.5 46: Radiated spurious emissions on low channel with EUT in vertical position - antenna in horizontal polarization $\pi/4$ -DQPSK

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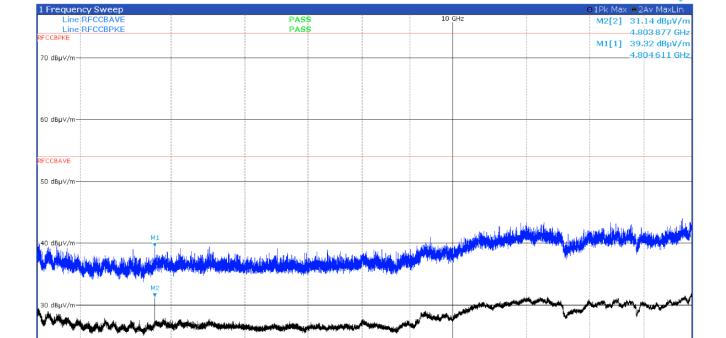


20 dBμV/m-

10 dBµV/m 3.6 GHz Section 8 Test name Specification Testing data

Spurious (out-of-band) unwanted emissions

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14400 pts 15:37:55 28.03.2023 Page 1/1

18.0 GHz

Figure 8.5-49: Radiated spurious emissions on low channel with EUT in vertical position - antenna in vertical polarization $\pi/4$ -DQPSK

Frequency	Level	Limit	Margin	Detector
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	



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Spurious (out-of-band) unwanted emissions

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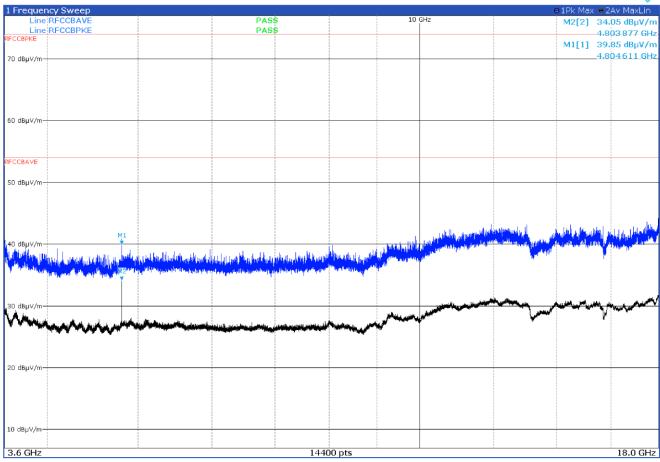


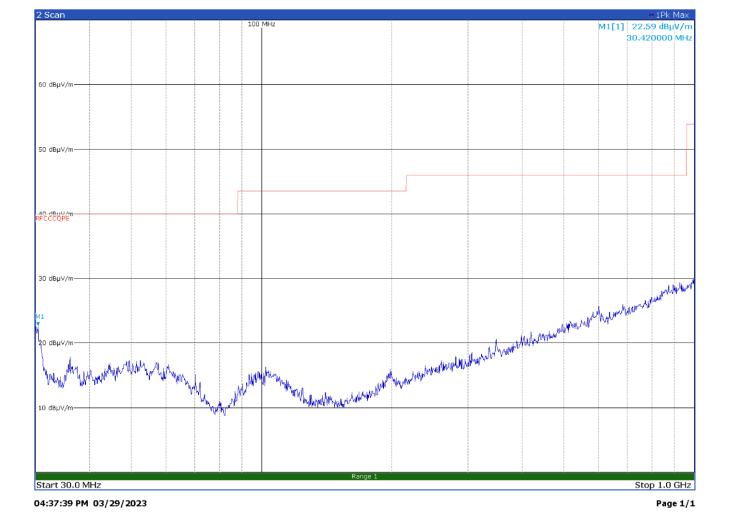
Figure 8.5-50: Radiated spurious emissions on low channel with EUT in vertical position - antenna in horizontal polarization $\pi/4$ -DQPSK

Frequency	Level	Limit	Margin	Detector
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	



Testing data
Spurious (out-of-hand)

Spurious (out-of-band) unwanted emissions RSS-247, Issue 2



 $Figure~8.5-45: Radiated~spurious~emissions~on~mid~channel~with~EUT~in~vertical~position~-~antenna~in~vertical~polarization~\pi/4-DQPSK~in~vertical~polarizat$

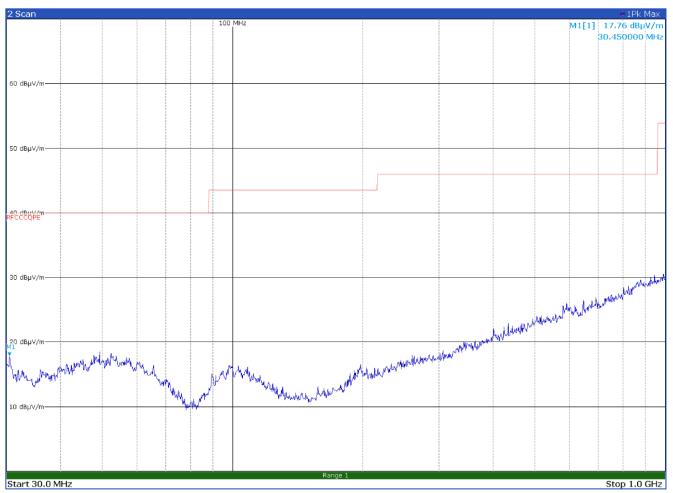
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Testing data

Spurious (out-of-band) unwanted emissions

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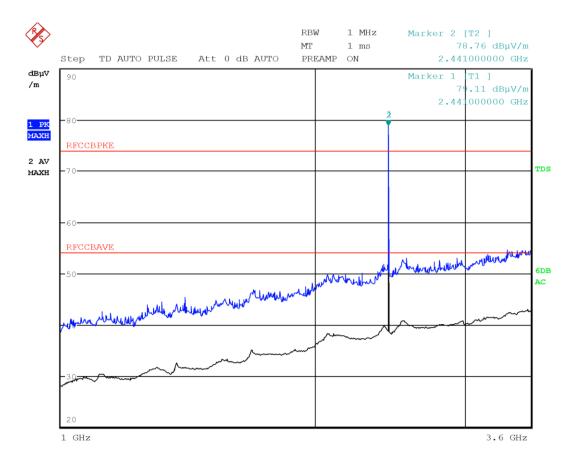
04:36:52 PM 03/29/2023 Page 1/1

 $Figure~8.5-45: Radiated~spurious~emissions~on~mid~channel~with~EUT~in~vertical~position~-~antenna~in~horizontal~polarization~\pi/4-DQPSK~in~vertical~position~-~antenna~in~horizontal~polarization~\pi/4-DQPSK~in~vertical~position~-~antenna~in~horizontal~polarization~\pi/4-DQPSK~in~vertical~position~-~antenna~in~horizontal~polarization~\pi/4-DQPSK~in~vertical~position~-~antenna~in~horizontal~polarization~\pi/4-DQPSK~in~vertical~position~-~antenna~in~horizontal~polarization~\pi/4-DQPSK~in~vertical~position~-~antenna~in~horizontal~polarization~\pi/4-DQPSK~in~vertical~position~-~antenna~in~horizontal~polarization~\pi/4-DQPSK~in~vertical~position~-~antenna~in~horizontal~polarization~\pi/4-DQPSK~in~vertical~position~-~antenna~in~horizontal~polarization~\pi/4-DQPSK~in~vertical~position~-~antenna~in~horizontal~polarization~\pi/4-DQPSK~in~vertical~position~-~antenna~in~vertical~position$

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Spurious (out-of-band) unwanted emissions Specification

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Figure 8.5 47: Radiated spurious emissions on mid channel with EUT in vertical position - antenna in horizontal polarization $\pi/4$ -DQPSK

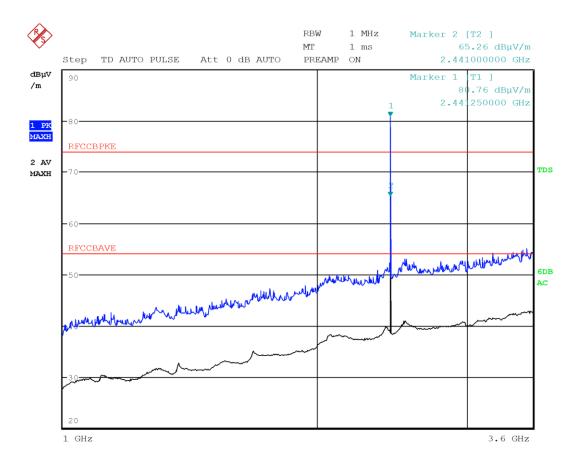
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Figure 8.5 48: Radiated spurious emissions on mid channel with EUT in vertical position - antenna in vertical polarization $\pi/4$ -DQPSK

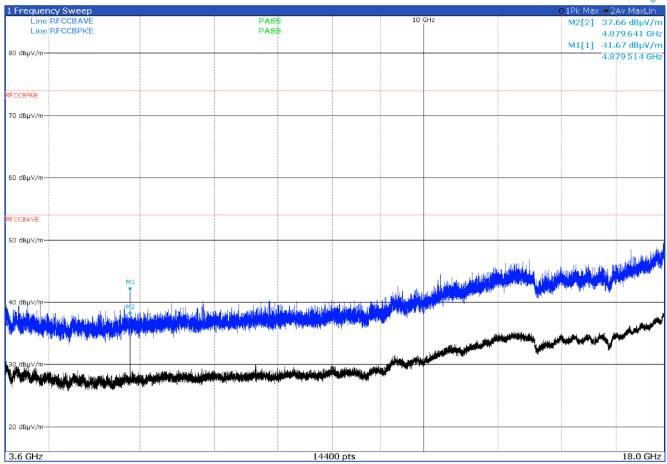
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Testing data

Spurious (out-of-band) unwanted emissions RSS-247, Issue 2





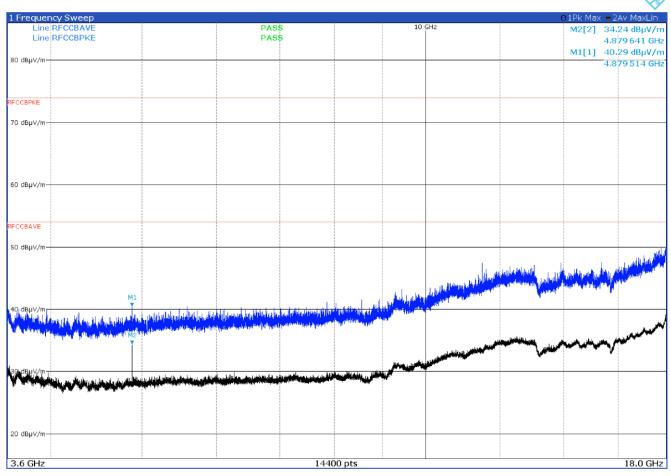
15:53:51 28.03.2023 Page 1/1

Figure 8.5 48: Radiated spurious emissions on mid channel with EUT in vertical position - antenna in vertical polarization $\pi/4$ -DQPSK



Testing data

Spurious (out-of-band) unwanted emissions RSS-247, Issue 2



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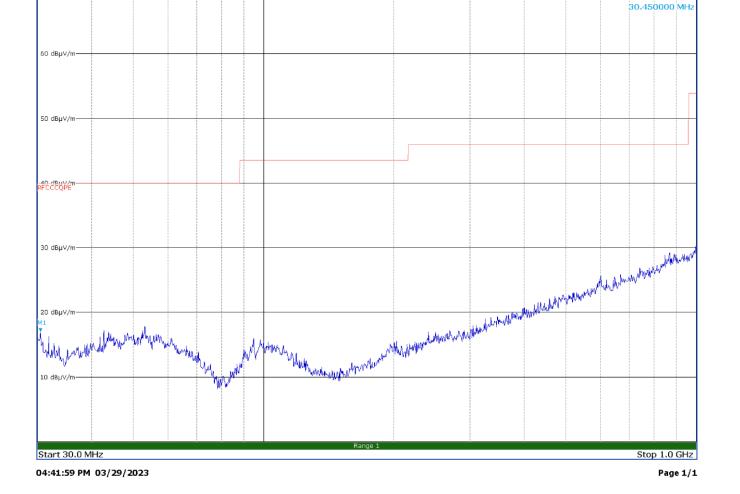
Figure 8.5 48: Radiated spurious emissions on mid channel with EUT in vertical position - antenna in horizontal polarization $\pi/4$ -DQPSK



Testing data

Spurious (out-of-band) unwanted emissions

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M1[1] 16.86 dBμV/m

Figure 8.5-45: Radiated spurious emissions on high channel with EUT in vertical position - antenna in horizontal polarization $\pi/4$ -DQPSK

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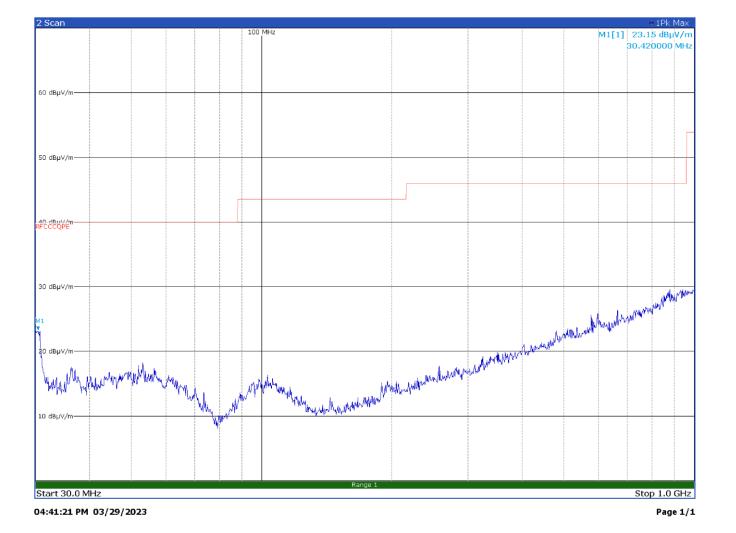


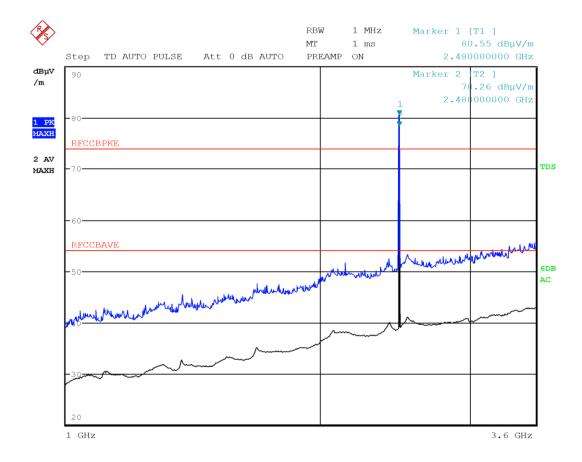
Figure 8.5-45: Radiated spurious emissions on high channel with EUT in vertical position - antenna in vertical polarization $\pi/4$ -DQPSK



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Spurious (out-of-band) unwanted emissions

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Date: 24.MAR.2023 17:44:55

Figure 8.5 49: Radiated spurious emissions on high channel with EUT in vertical position - antenna in horizontal polarization $\pi/4$ -DQPSK

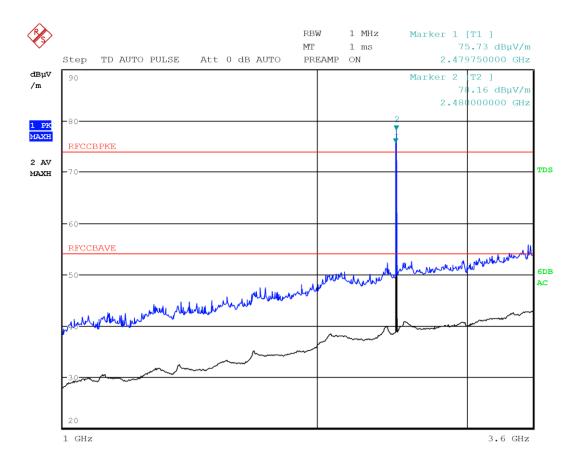
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Date: 24.MAR.2023 17:46:04

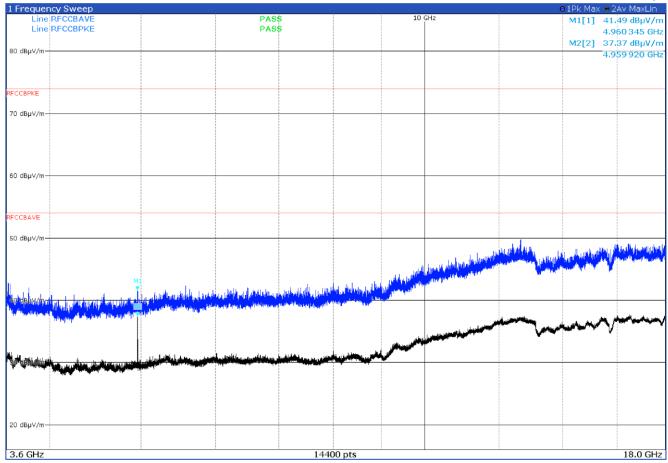
Figure 8.5 50: Radiated spurious emissions on high channel with EUT in vertical position - antenna in vertical polarization $\pi/4$ -DQPSK

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Testing data Spurious (out-of-band) unwanted emissions RSS-247, Issue 2





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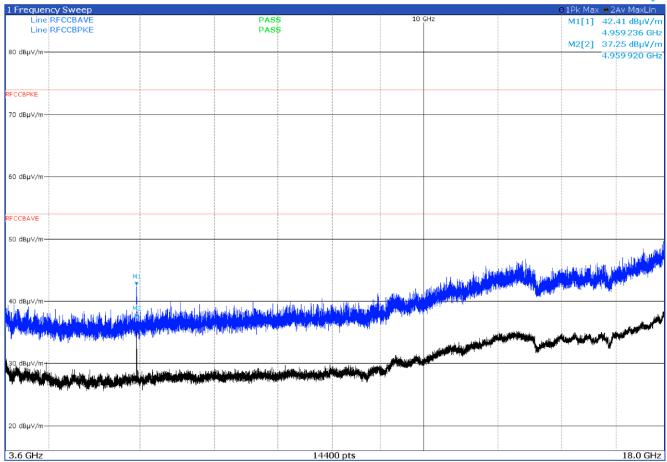
Figure 8.5 50: Radiated spurious emissions on high channel with EUT in vertical position - antenna in vertical polarization $\pi/4$ -DQPSK



Testing data Spurious (out-of-band) unwanted emissions

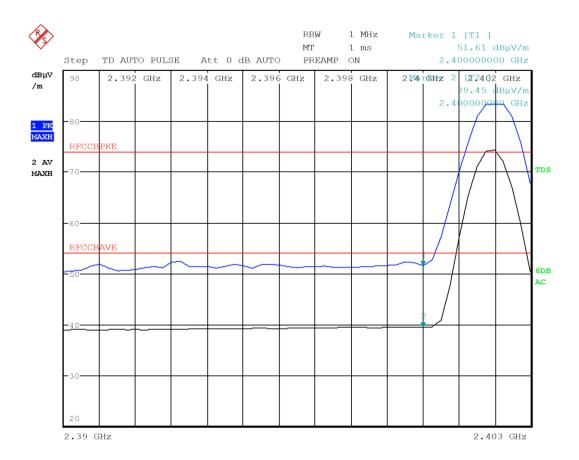
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Figure 8.5 50: Radiated spurious emissions on high channel with EUT in vertical position - antenna in horizontal polarization $\pi/4$ -DQPSK



Date: 24.MAR.2023 17:55:02

Figure 8.5-51: Band edge spurious emissions at 2400 MHz for GFSK modulation

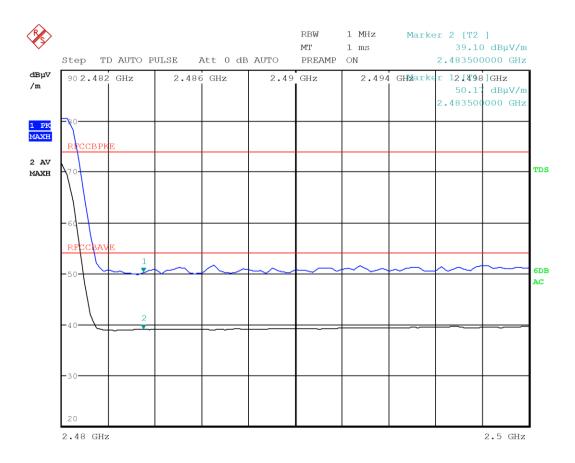
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Testing data

Spurious (out-of-band) unwanted emissions

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Test data, continued



Date: 24.MAR.2023 17:50:03

Figure 8.5-52: Band edge spurious emissions at 2483.5 MHz for GFSK modulation

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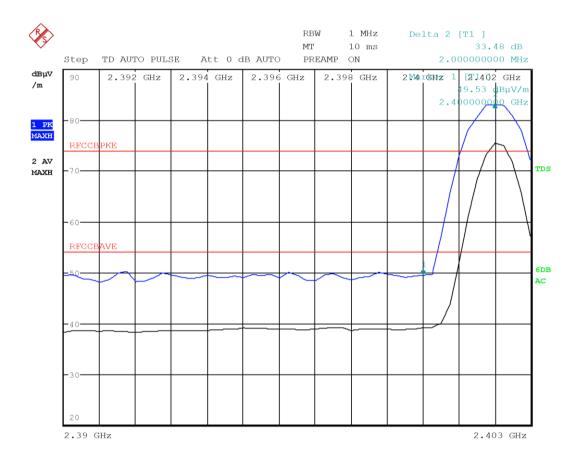


Testing data

Spurious (out-of-band) unwanted emissions

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Test data, continued

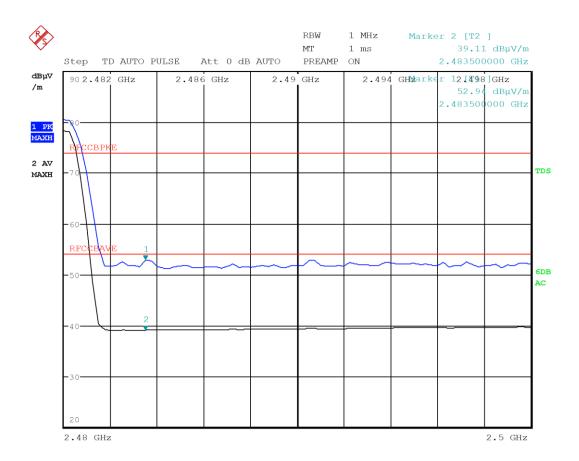


Date: 24.MAR.2023 17:26:03

Figure 8.5-53: Band edge spurious emissions at 2400 MHz for $\pi/4$ -DQPSK modulation

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Test data, continued

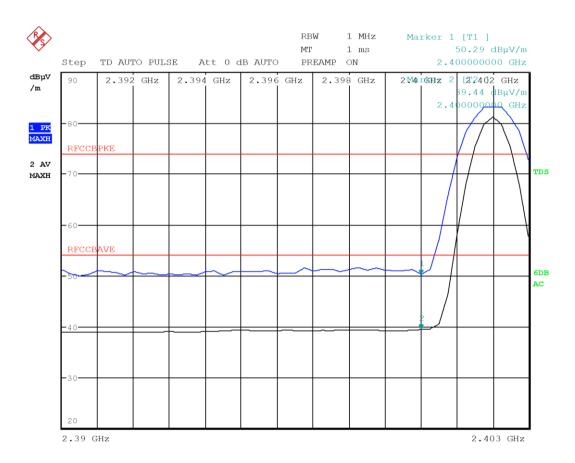


Date: 24.MAR.2023 17:42:33

Figure 8.5-54: Band edge spurious emissions at 2483.5 MHz for $\pi/4$ -DQPSK modulation

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Test data, continued

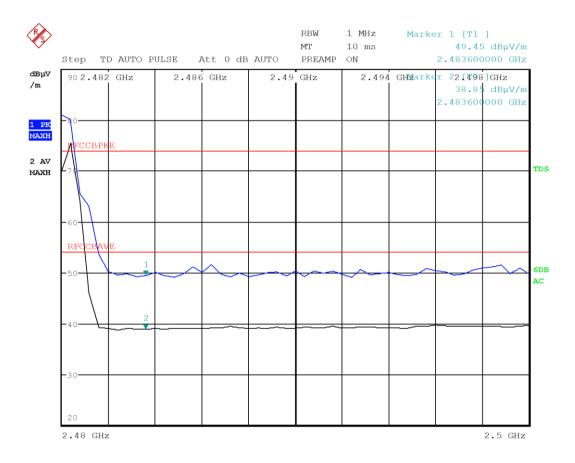


Date: 24.MAR.2023 17:56:54

Figure 8.5-55: Band edge spurious emissions at 2400 MHz for 8-DPSK modulation

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Test data, continued



Date: 24.MAR.2023 17:17:27

Figure 8.5-56: Band edge spurious emissions at 2483.5 MHz for 8-DPSK modulation

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Section 9 EUT photos

9.1 Set-up photos



Figure 9.1-1: Radiated emissions set-up for frequencies below 1 GHz



Figure 9.1-2: Radiated emissions set-up for frequencies above 1 GHz



9.2 External photos



Figure 9.2-1: Front view photo







Figure 9.2-2: Rear view photo





Figure 9.2-3: Inside view photo

End of the test report