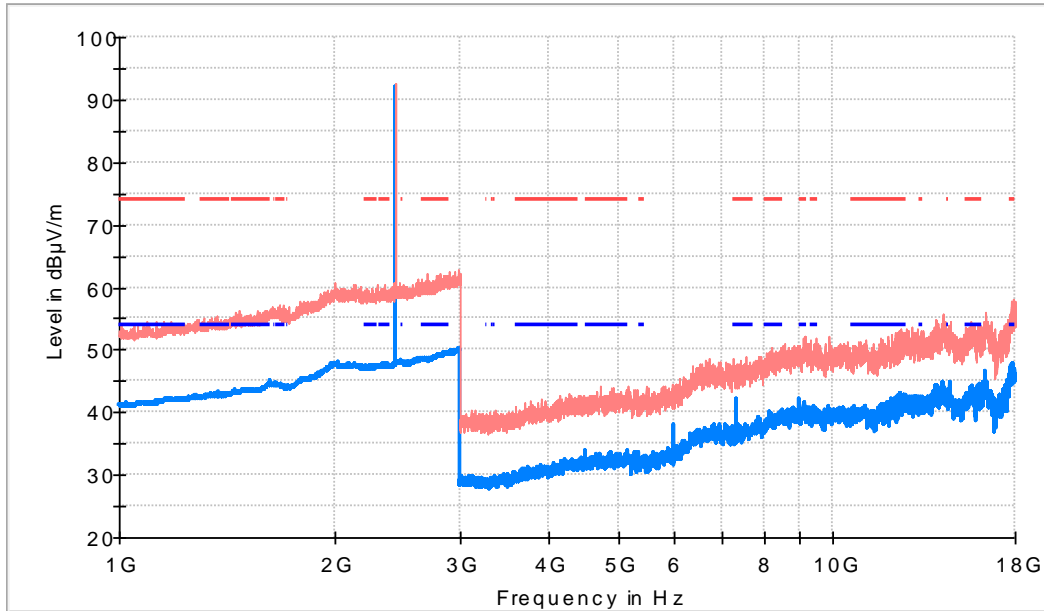


TEST RESULTS (Cont.)

CHANNEL: Middle (2440 MHz).



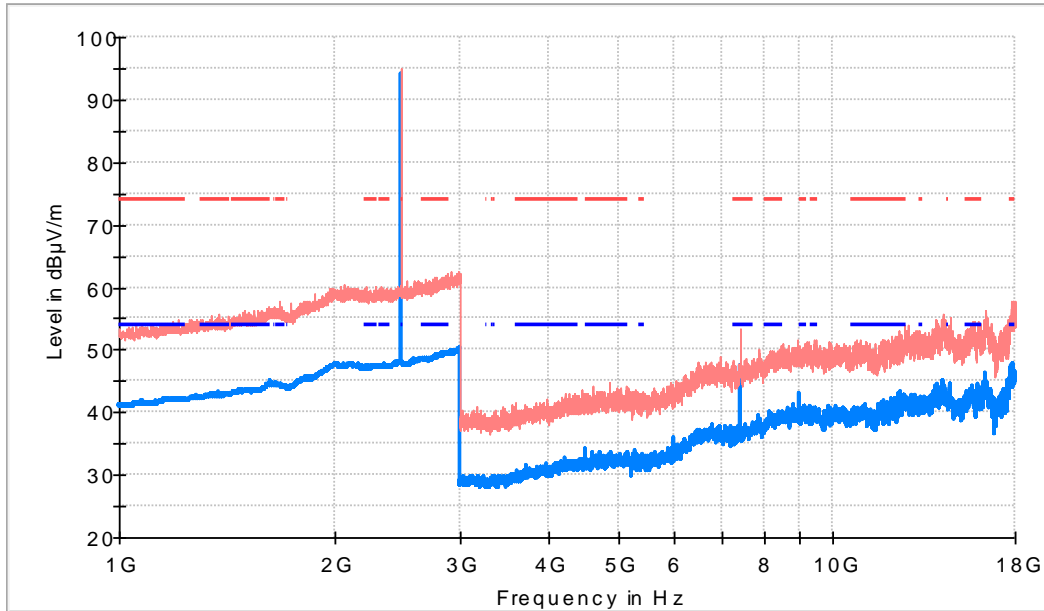
- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit

Maximizations

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
2441.000000	92.7	92.0	H	---	---	Fundamental
7323.000000	47.8	42.1	H	11.9	54.0	

TEST RESULTS (Cont.)

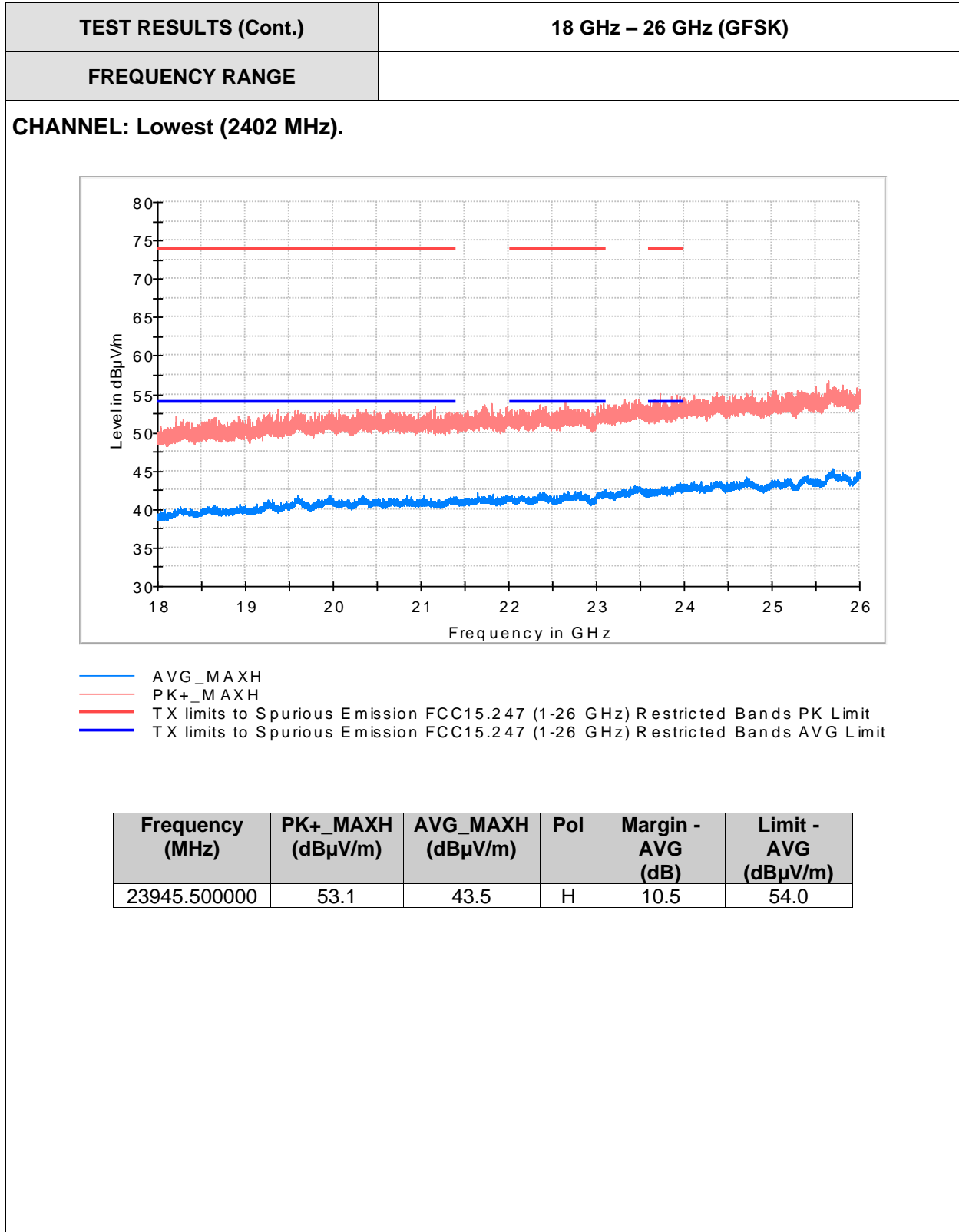
CHANNEL: Highest (2480 MHz).



- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit

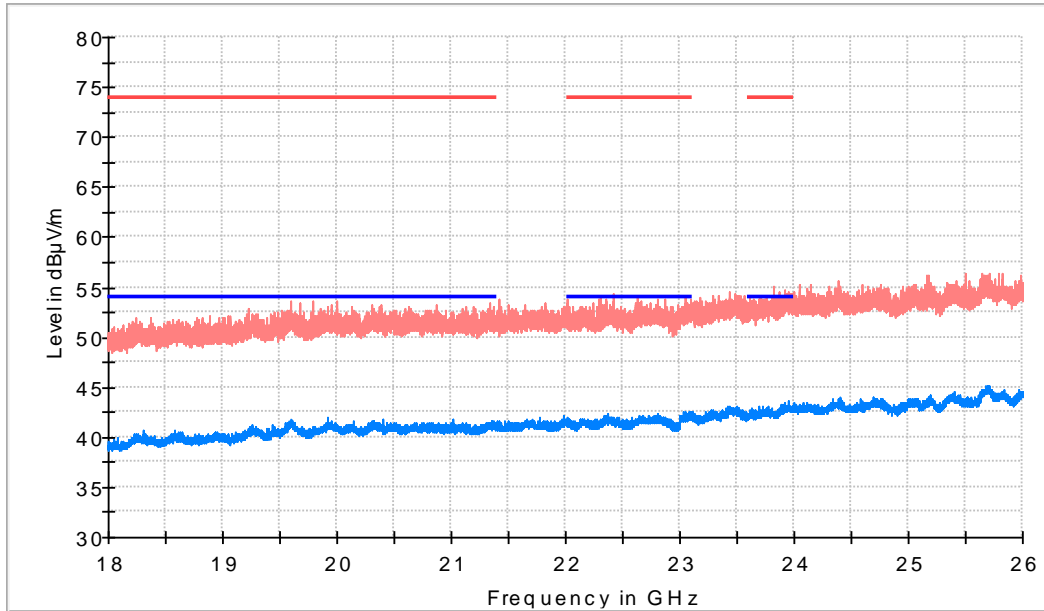
Maximizations

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
2480.000000	94.8	94.2	H	---	---	Fundamental
7439.500000	53.4	47.5	H	6.5	54.0	



TEST RESULTS (Cont.)

CHANNEL: Middle (2440 MHz).

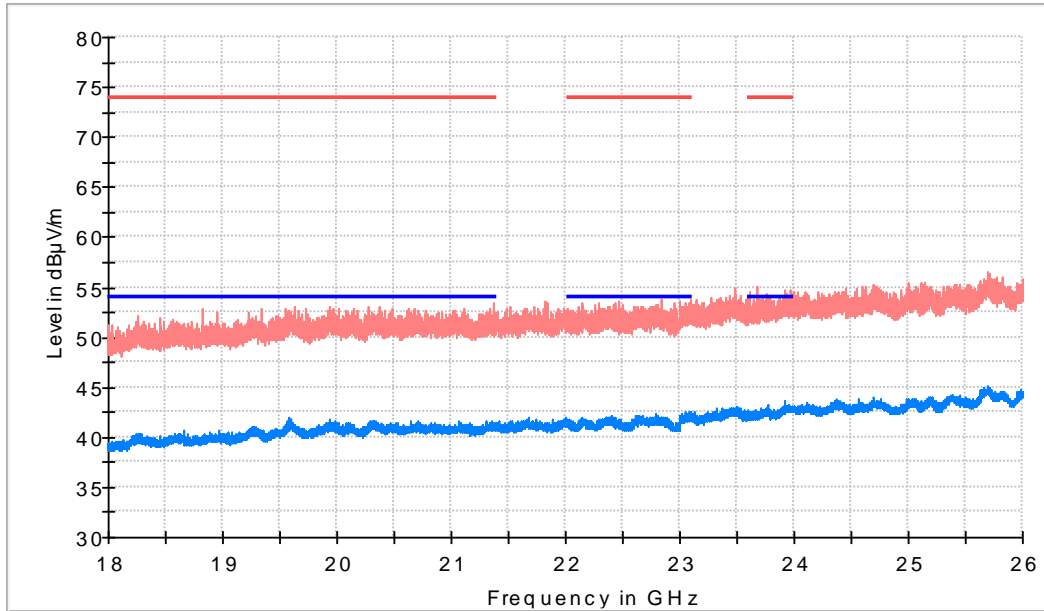


- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
23950.500000	54.0	43.6	V	10.4	54.0

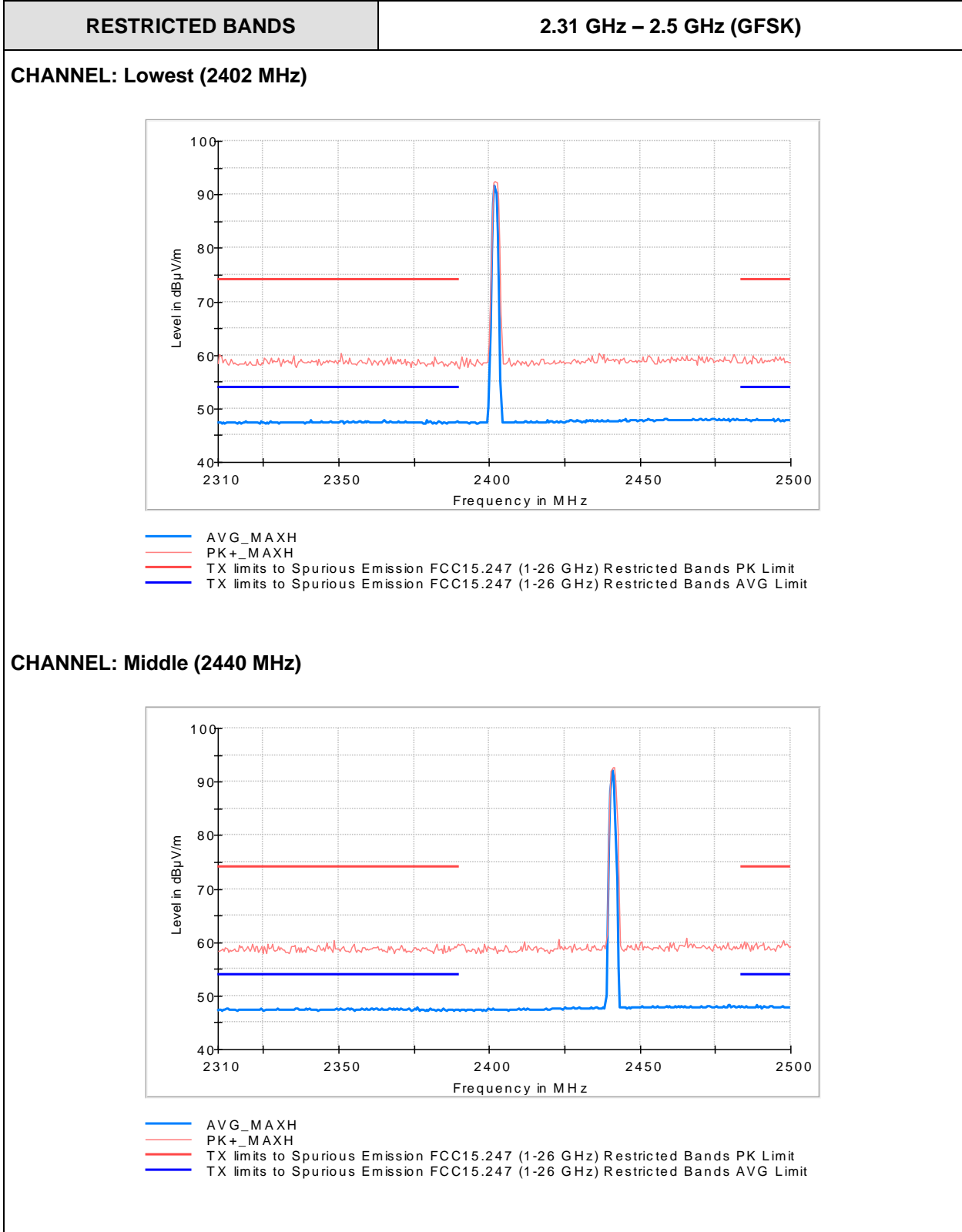
TEST RESULTS (Cont.)

CHANNEL: Highest (2480 MHz).



- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit

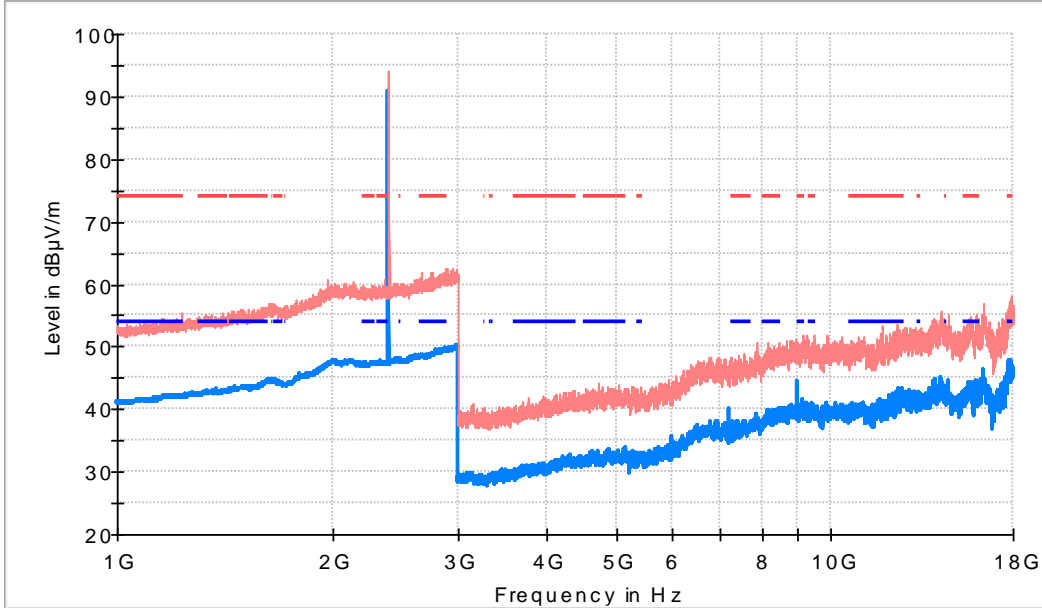
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
23913.000000	53.2	43.6	H	10.4	54.0



TEST RESULTS (Cont.)	
<p>CHANNEL: Highest (2480 MHz)</p> <div style="text-align: center;"> </div> <p> — AVG_MAXH — PK+_MAXH — TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit — TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit </p>	
TESTED SAMPLES:	S/02
TESTED CONDITIONS MODES:	TC#02 ($\pi/4$ -DQPSK)
TEST RESULTS:	PASS
<p>Frequency range 30 MHz – 1000 MHz</p> <p>The spurious emissions below 1 GHz do not depend on the operating channel selected in the EUT.</p> <p>The results for the worst case selected GFSK Modulation are shown below.</p> <p>Frequency range 1 GHz – 26 GHz</p> <p>The results in the following plots and tables show the maximum measured levels in the 1-26 GHz range including the restricted bands 2.31-2.5 GHz.</p>	

TEST RESULTS (Cont.) **1 GHz – 18 GHz (π/4-DQPSK)**

CHANNEL: Lowest (2402 MHz).



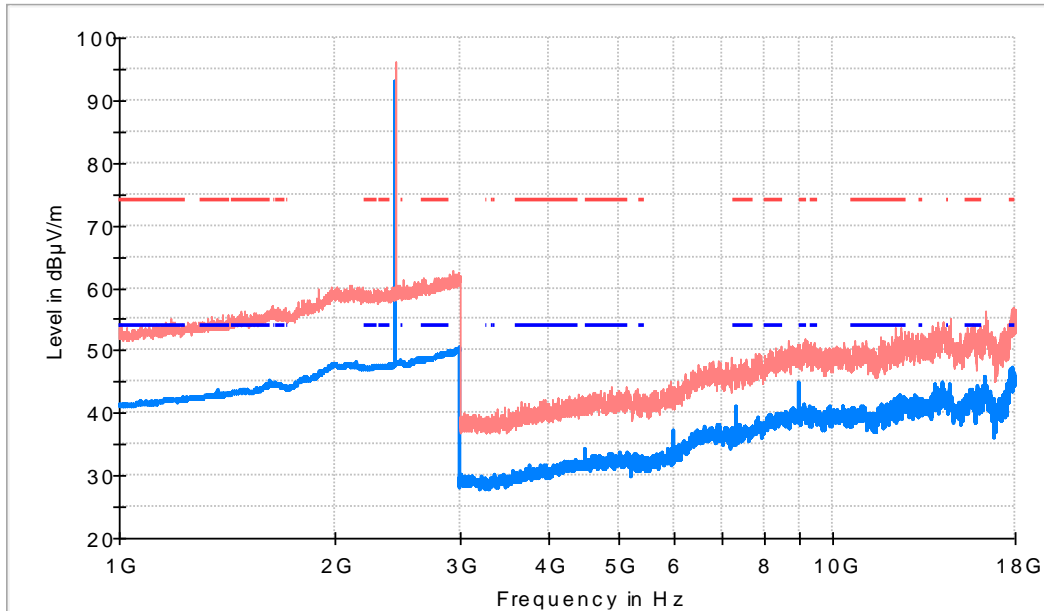
- AVG_MAXH
- PK+_MAXH
- - - TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit
- - - TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit

.Maximizations

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
2402.000000	94.2	90.8	H	---	---	Fundamental
9000.000000	50.2	44.6	V	9.4	54.0	

TEST RESULTS (Cont.)

CHANNEL: Middle (2440 MHz).



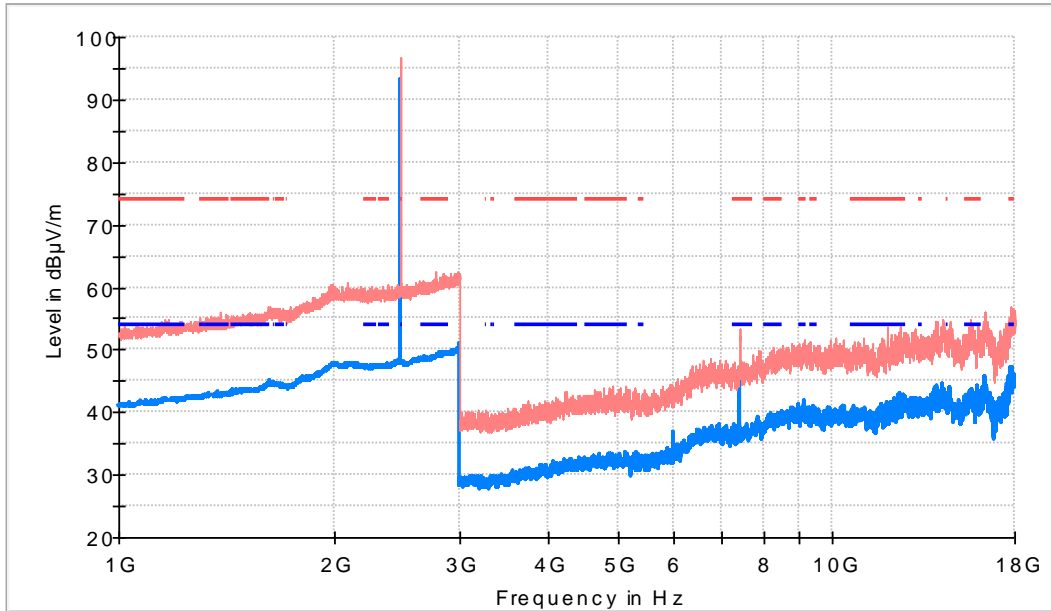
- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit

Maximizations

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
2441.000000	96.1	92.8	H	---	---	Fundamental
4500.000000	41.8	34.2	V	19.8	54.0	
7323.000000	47.0	40.9	H	13.1	54.0	

TEST RESULTS (Cont.)

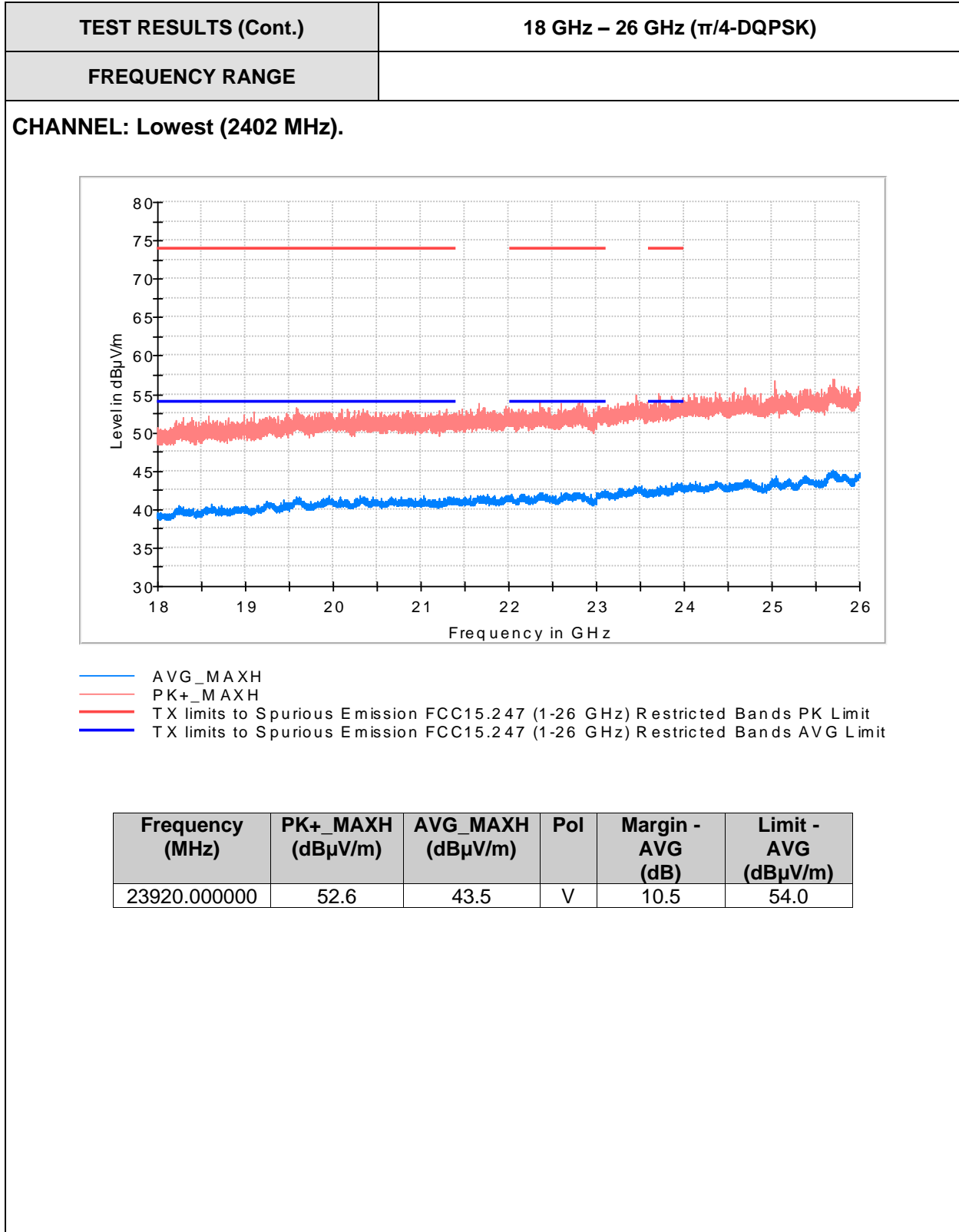
CHANNEL: Highest (2480 MHz)



- AVG_MAXH
- PK+_MAXH
- - - TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit
- - - TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit

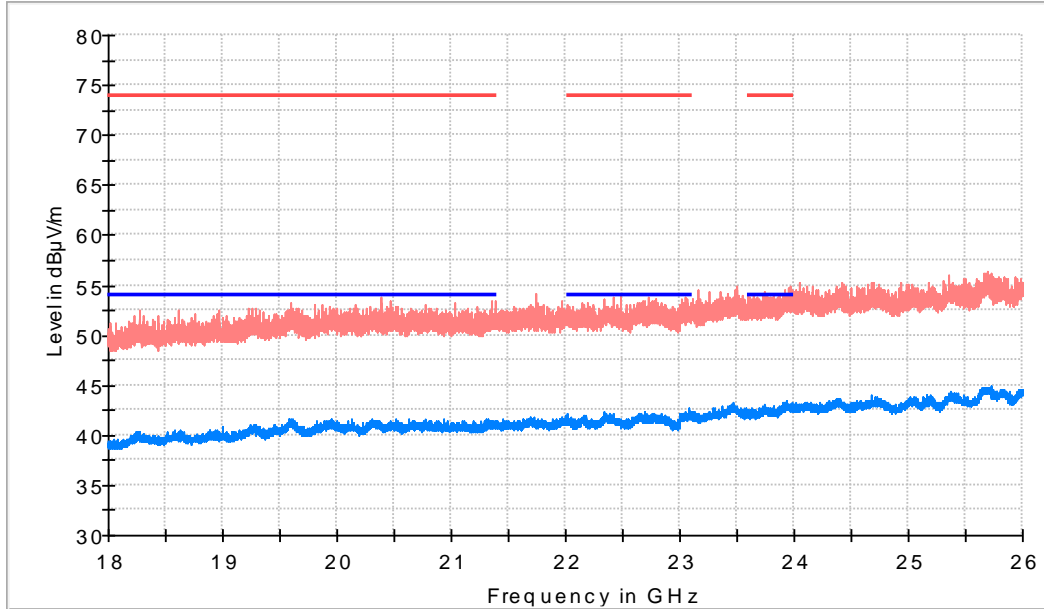
Maximizations

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
2480.000000	96.7	93.2	H	---	---	Fundamental
7440.000000	51.5	46.6	H	7.4	54.0	



TEST RESULTS (Cont.)

CHANNEL: Middle (2440 MHz).

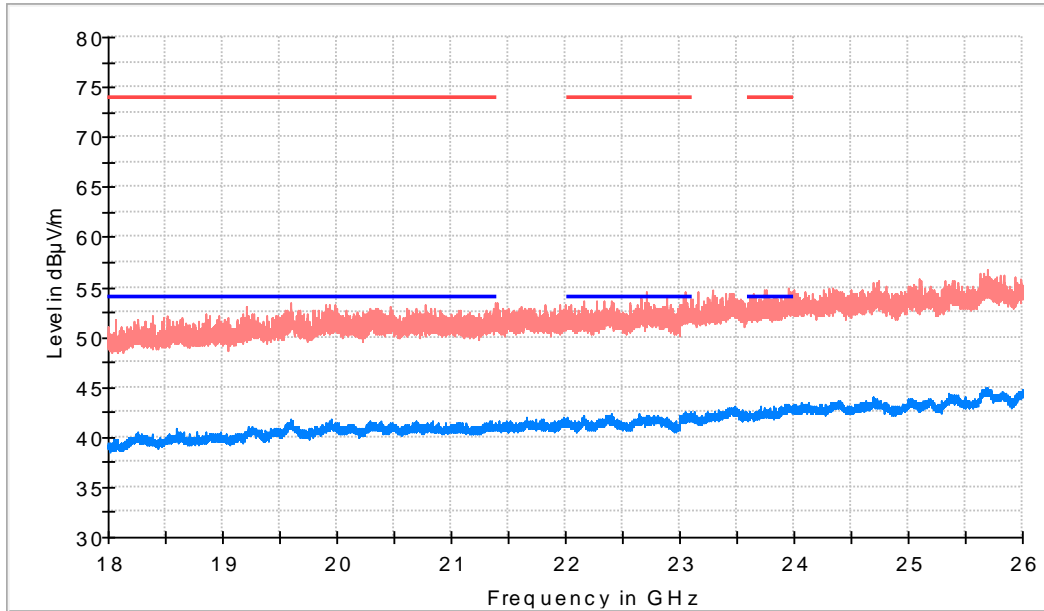


- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
23936.500000	52.8	43.5	H	10.5	54.0

TEST RESULTS (Cont.)

CHANNEL: Highest (2480 MHz).

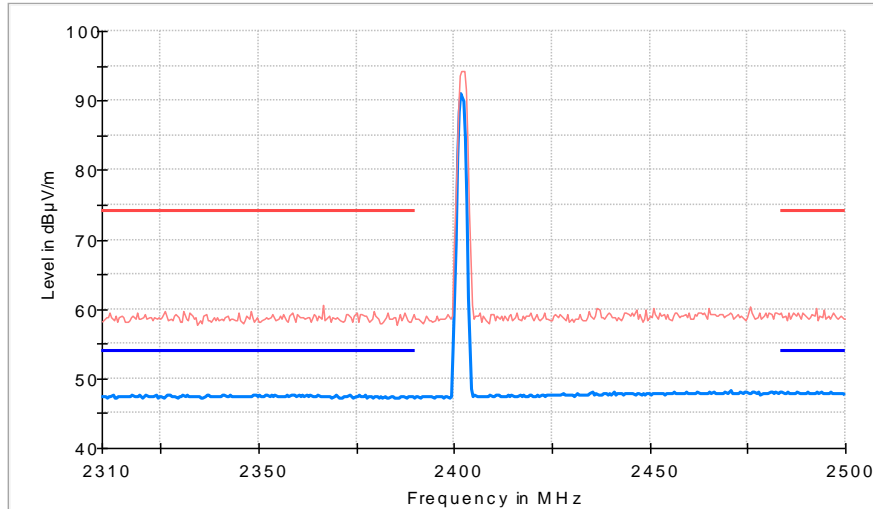


- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
23914.000000	53.6	43.3	V	10.7	54.0

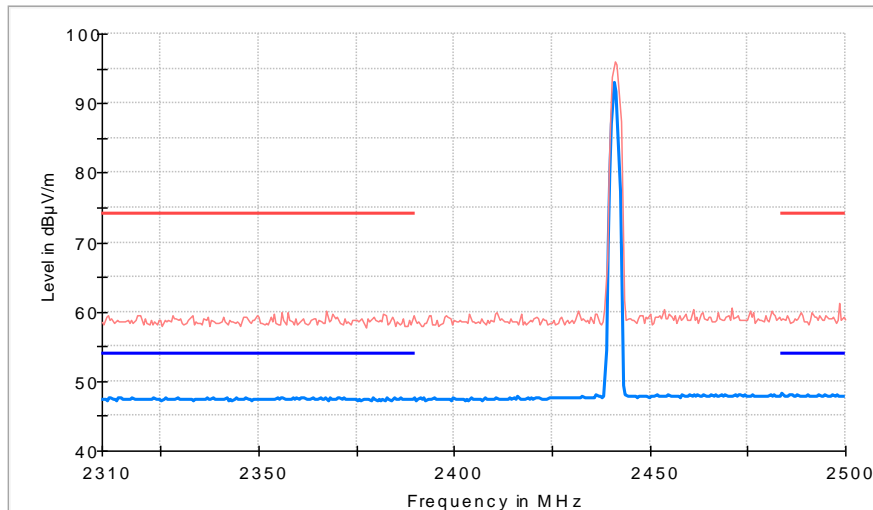
TEST RESULTS (Cont.):	RESTRICTED BAND 2.31 GHz – 2.5 GHz ($\pi/4$-DQPSK)
------------------------------	--

CHANNEL: Lowest (2402 MHz)



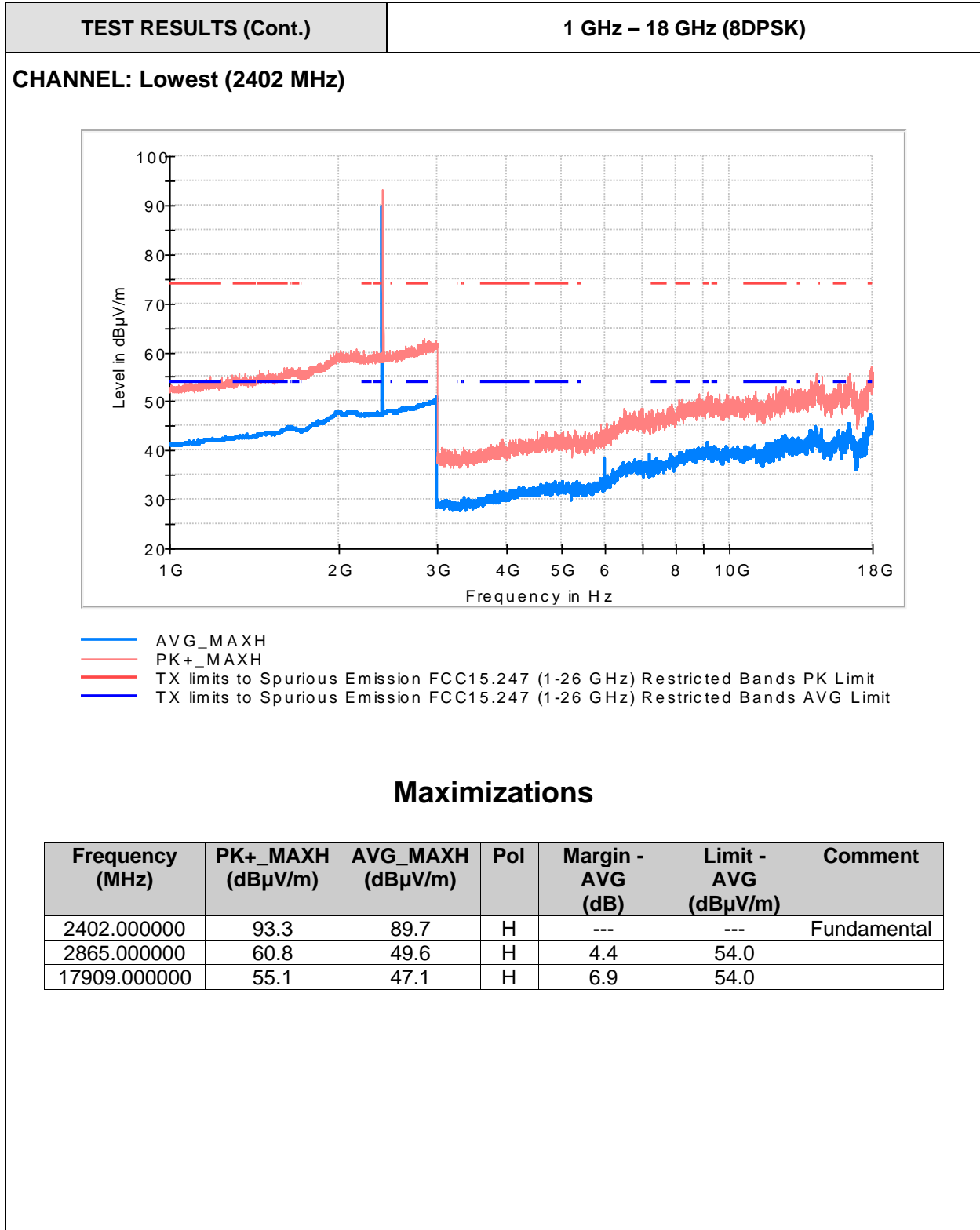
- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit

CHANNEL: Middle (2440 MHz)



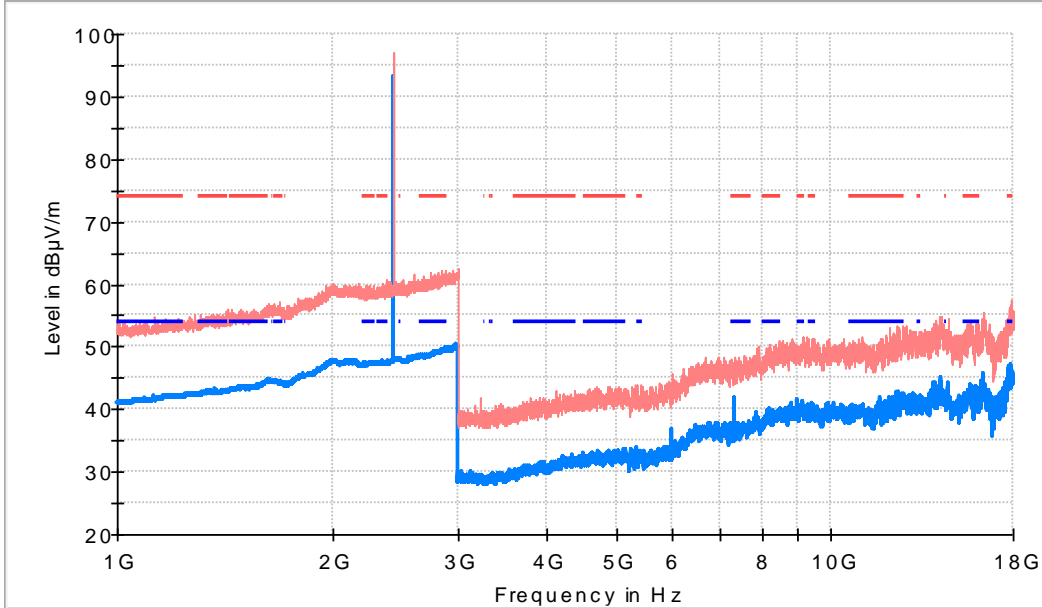
- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit

TEST RESULTS (Cont.)	
<p>CHANNEL: Highest (2480 MHz)</p> <div style="text-align: center;"> </div> <p> — AVG_MAXH — PK+_MAXH — TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit — TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit </p>	
TESTED SAMPLES:	S/02
TESTED CONDITIONS MODES:	TC#03 (8DPSK)
TEST RESULTS:	PASS
<p>Frequency range 30 MHz – 1000 MHz</p> <p>The spurious emissions below 1 GHz do not depend on the operating channel selected in the EUT.</p> <p>The results for the worst case selected GFSK Modulation are shown below.</p>	
<p>Frequency range 1 GHz – 26 GHz</p> <p>The results in the following plots and tables show the maximum measured levels in the 1-26 GHz range including the restricted bands 2.31-2.5 GHz.</p>	



TEST RESULTS (Cont.)

CHANNEL: Middle (2440 MHz)



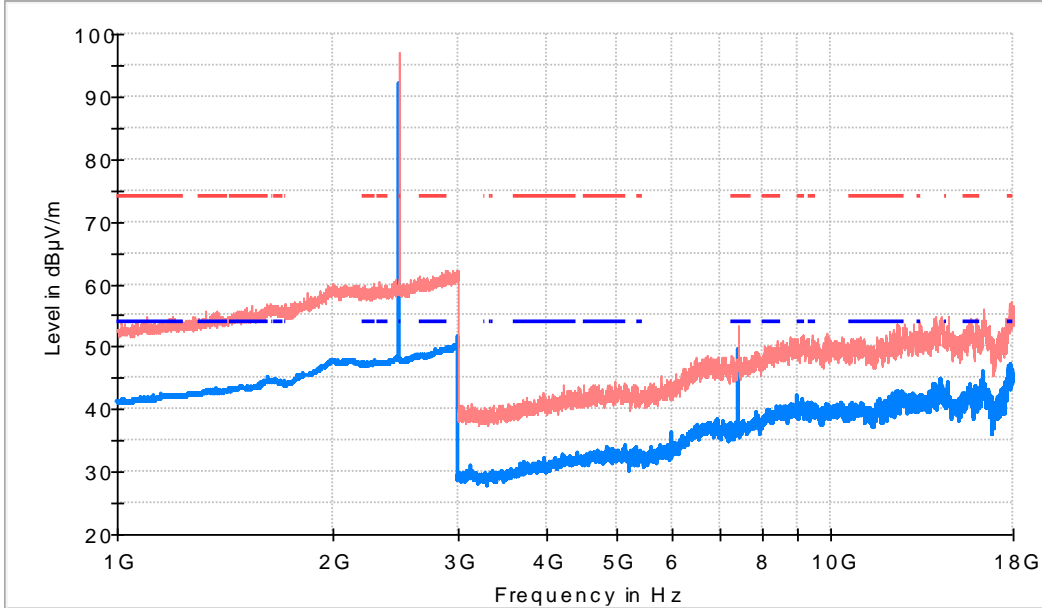
- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit

Maximizations

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
2441.000000	97.0	93.2	H	---	---	Fundamental
7322.500000	48.1	41.1	V	12.9	54.0	

TEST RESULTS (Cont.)

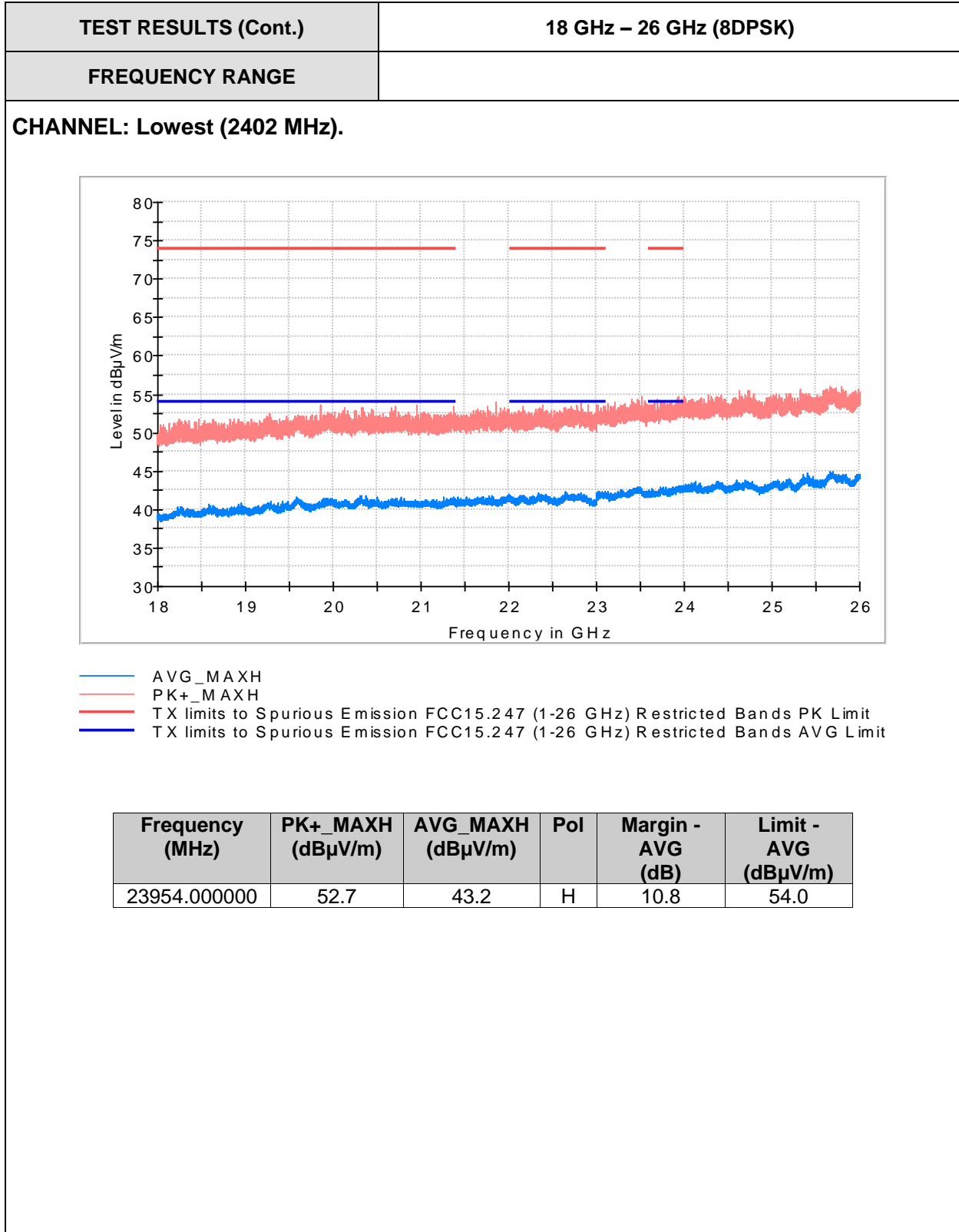
CHANNEL: Highest (2480 MHz)



- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit

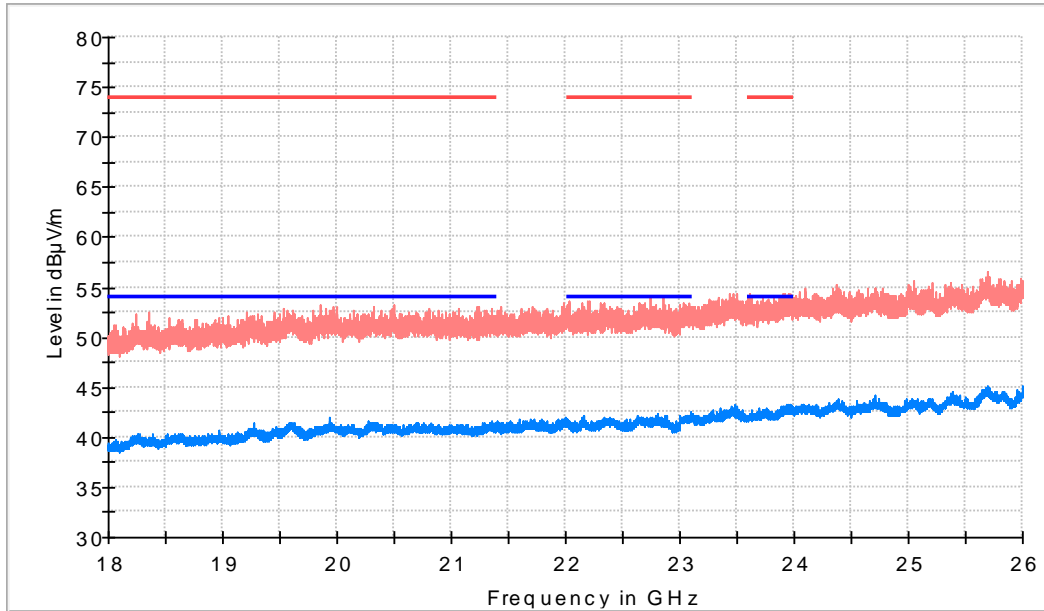
Maximizations

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
2480.000000	97.0	91.9	H	---	---	Fundamental
7440.000000	53.4	49.4	H	4.6	54.0	



TEST RESULTS (Cont.)

CHANNEL: Middle (2440 MHz).

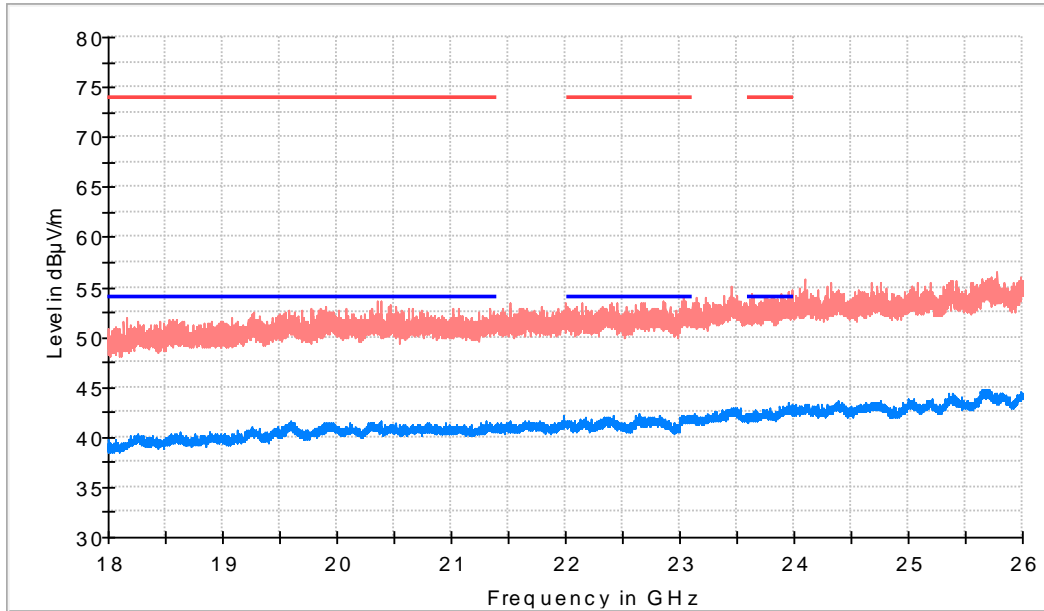


- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
23941.000000	53.1	43.3	V	10.7	54.0

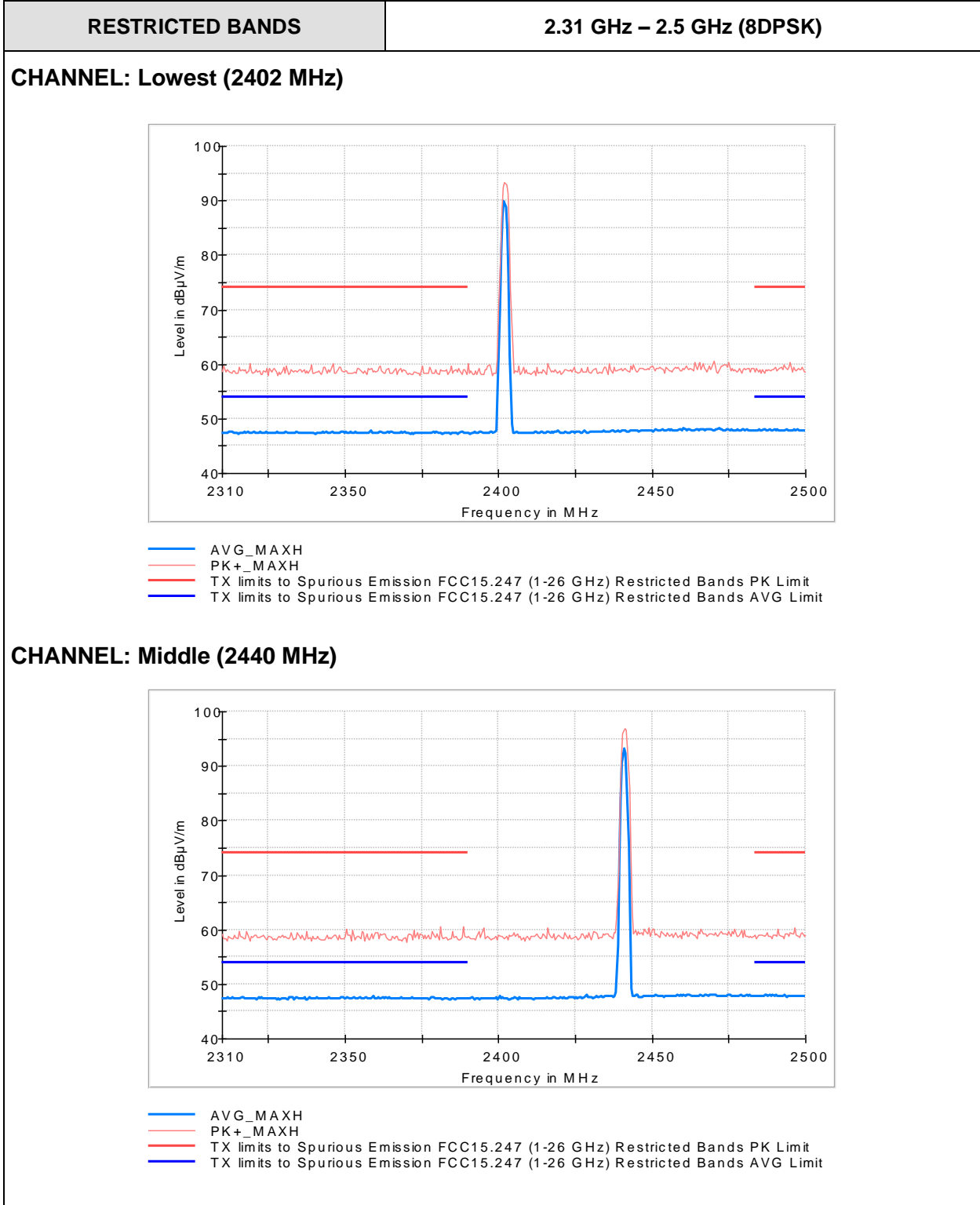
TEST RESULTS (Cont.)

CHANNEL: Highest (2480 MHz).



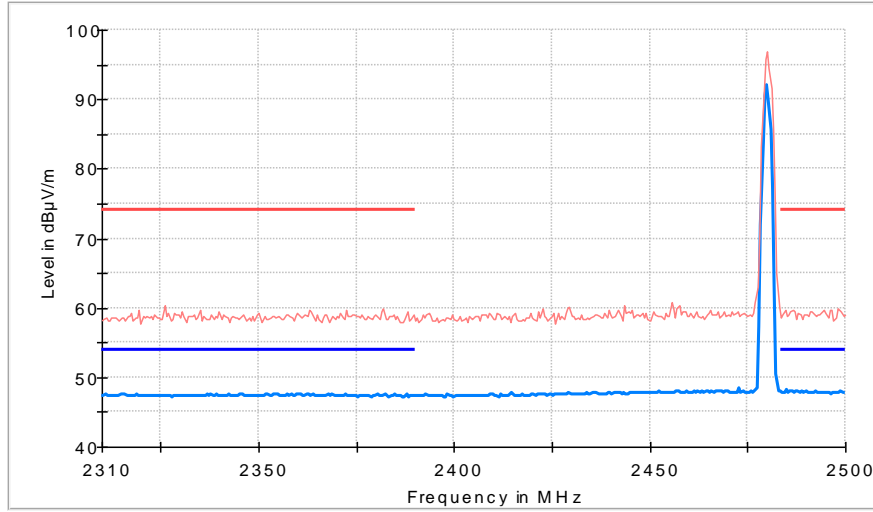
- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
23955.500000	53.5	43.5	H	10.5	54.0



TEST RESULTS (Cont.)

CHANNEL: Highest (2480 MHz)



- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit

Appendix C: Test results (Wi-Fi 2.4GHz)

Appendix C Content

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PRODUCT INFORMATION

The following information is provided by the supplier, in accordance with clause 5.4.1:

Information	Description
Modulation	Other forms of modulation
Maximum RF Output Power	Adaptive Equipment without the possibility to switch to a non- adaptive mode.
Operation mode	
- Operating Frequency Range	2400 – 2483.5 MHz
- Nominal Channel Bandwidth	20 MHz 40 MHz
Extreme operating conditions	
- Temperature range	-40 °C to +65 °C
Antenna type	
Antenna gain	-2.5 dBi
Nominal Voltage	
- Supply Voltage	12 Vdc
- Type of power source	DC voltage
Equipment type	Wi-Fi 2.4 GHz b/g/n20/n40/ax20/ax40
Geo-location capability	No

DESCRIPTION OF TEST CONDITIONS

During transmitter test the EUT was being controlled by the SW tool to operate in a continuous transmit mode on the test channel as required and in each of the different modulation modes.

TEST CONDITIONS	DESCRIPTION
TC#01 ⁽¹⁾ (b mode)	<p><u>Power supply (V):</u> $V_{\text{nominal}} = 12 \text{ Vdc}$</p> <p><u>Channel Bandwidth:</u> 20 MHz</p> <p><u>Test Frequencies for Conducted/Radiated tests (Radio B SISO, Radio A SISO, Radio B & Radio A MIMO):</u></p> <p>Lowest channel: 2412 MHz Middle channel: 2437 MHz Highest channel: 2462 MHz</p>
TC#02 ⁽¹⁾ (g mode)	<p><u>Power supply (V):</u> $V_{\text{nominal}} = 12 \text{ Vdc}$</p> <p><u>Channel Bandwidth:</u> 20 MHz</p> <p><u>Test Frequencies for Conducted/Radiated tests (Radio B SISO, Radio A SISO, Radio B & Radio A MIMO):</u></p> <p>Lowest channel: 2412 MHz Middle channel: 2437 MHz Highest channel: 2462 MHz</p>

TEST CONDITIONS	DESCRIPTION
<p>TC#03⁽¹⁾ (n mode)</p>	<p><u>Power supply (V):</u> $V_{\text{nominal}} = 12 \text{ Vdc}$</p> <p><u>Channel Bandwidth:</u> 20 MHz</p> <p><u>Test Frequencies for Conducted/Radiated tests (Radio A SISO, Radio B SISO , Radio A + B MIMO):</u></p> <p>Lowest channel: 2412 MHz Middle channel: 2437 MHz Highest channel: 2462 MHz</p> <p><u>Channel Bandwidth:</u> 40 MHz</p> <p><u>Test Frequencies for Conducted/Radiated tests (Radio A SISO, Radio B SISO , Radio A + B MIMO):</u></p> <p>Lowest channel: 2422 MHz Middle channel: 2437 MHz Highest channel: 2452 MHz</p>
<p>TC#04⁽¹⁾ (ax mode non-beam forming)</p>	<p><u>Power supply (V):</u> $V_{\text{nominal}} = 12 \text{ Vdc}$</p> <p><u>Channel Bandwidth:</u> 20 MHz</p> <p><u>Test Frequencies for Conducted/Radiated tests (Radio A SISO, Radio B SISO , Radio A + B MIMO):</u></p> <p>Lowest channel: 2412 MHz Middle channel: 2437 MHz Highest channel: 2462 MHz</p>

	<p><u>Channel Bandwidth: 40 MHz</u></p> <p><u>Test Frequencies for Conducted/Radiated tests (Radio A SISO, Radio B SISO , Radio A + B MIMO):</u></p> <p>Lowest channel: 2422 MHz Middle channel: 2437 MHz Highest channel: 2452 MHz</p>
<p>TC#05⁽¹⁾ (ax mode Beam forming)</p>	<p><u>Power supply (V):</u> $V_{\text{nominal}} = 12 \text{ Vdc}$</p> <p><u>Channel Bandwidth: 20 MHz</u></p> <p><u>Test Frequencies for Conducted/Radiated tests (Radio A SISO, Radio B SISO , Radio A + B MIMO):</u></p> <p>Lowest channel: 2412 MHz Middle channel: 2437 MHz Highest channel: 2462 MHz</p> <p><u>Channel Bandwidth: 40 MHz</u></p> <p><u>Test Frequencies for Conducted/Radiated tests (Radio A SISO, Radio B SISO , Radio A + B MIMO):</u></p> <p>Lowest channel: 2422 MHz Middle channel: 2437 MHz Highest channel: 2452 MHz</p>

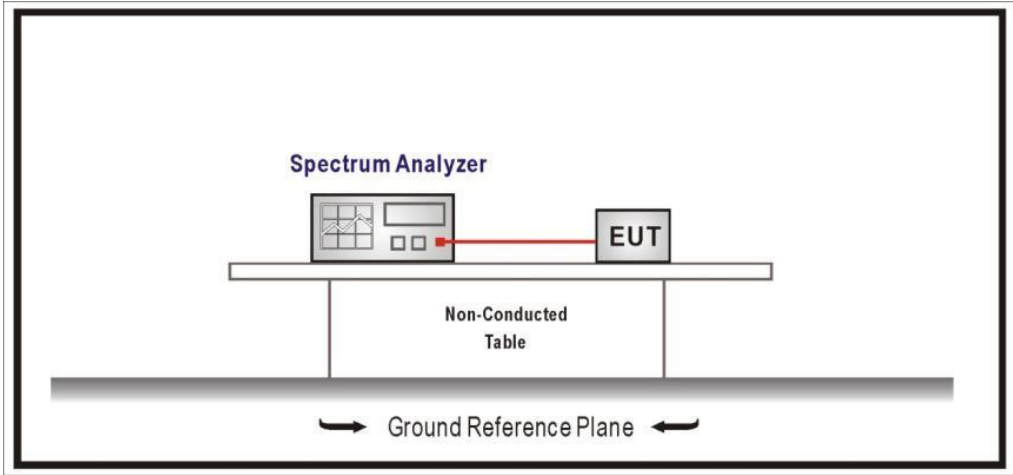
Note (1): For spurious emissions for OFDM modes 802.11g, 802.11n20, 802.11n40, 802.11ax20 and 802.11ax40 a preliminary scan was performed to determine the worst case. The following tables and plots show the results for the worst case in DSSS modulation (802.11b) and OFDM modulation (802.11n). The data rates of 11Mb/s for 802.11b, 54Mb/s for 802.11g, MCS7 for 802.11n and MCS 8 for 802.11 ax were selected based on preliminary testing that identified those rates corresponding to the worst cases.

TEST C.1: 99% OCCUPIED BANDWIDTH AND 6DB BANDWIDTH

LIMITS:	Product standard:	Part 15 Subpart C §15.247 and RSS-247
	Test standard:	§2.1049, Part 15 Subpart C §15.247(a)(2) and RSS-247 5.2(a)

LIMITS
 Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 KHz.

TEST SETUP



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (b mode SISO)
TEST RESULTS:	PASS

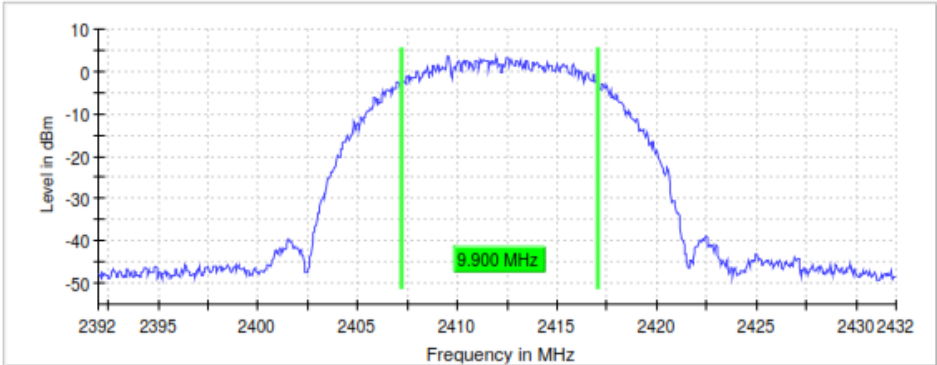
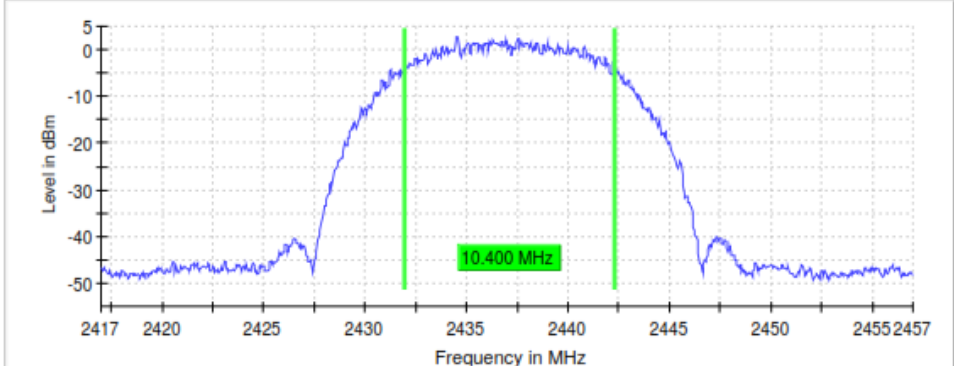
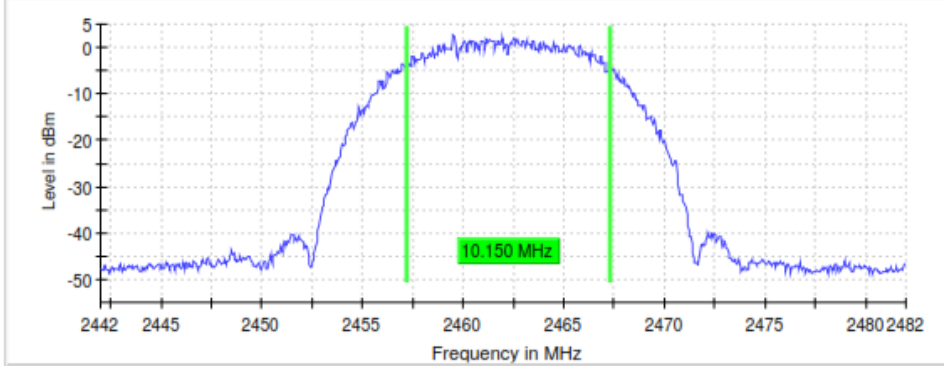
Type of equipment: Non-adaptive Equipment.

Radio A (SISO)

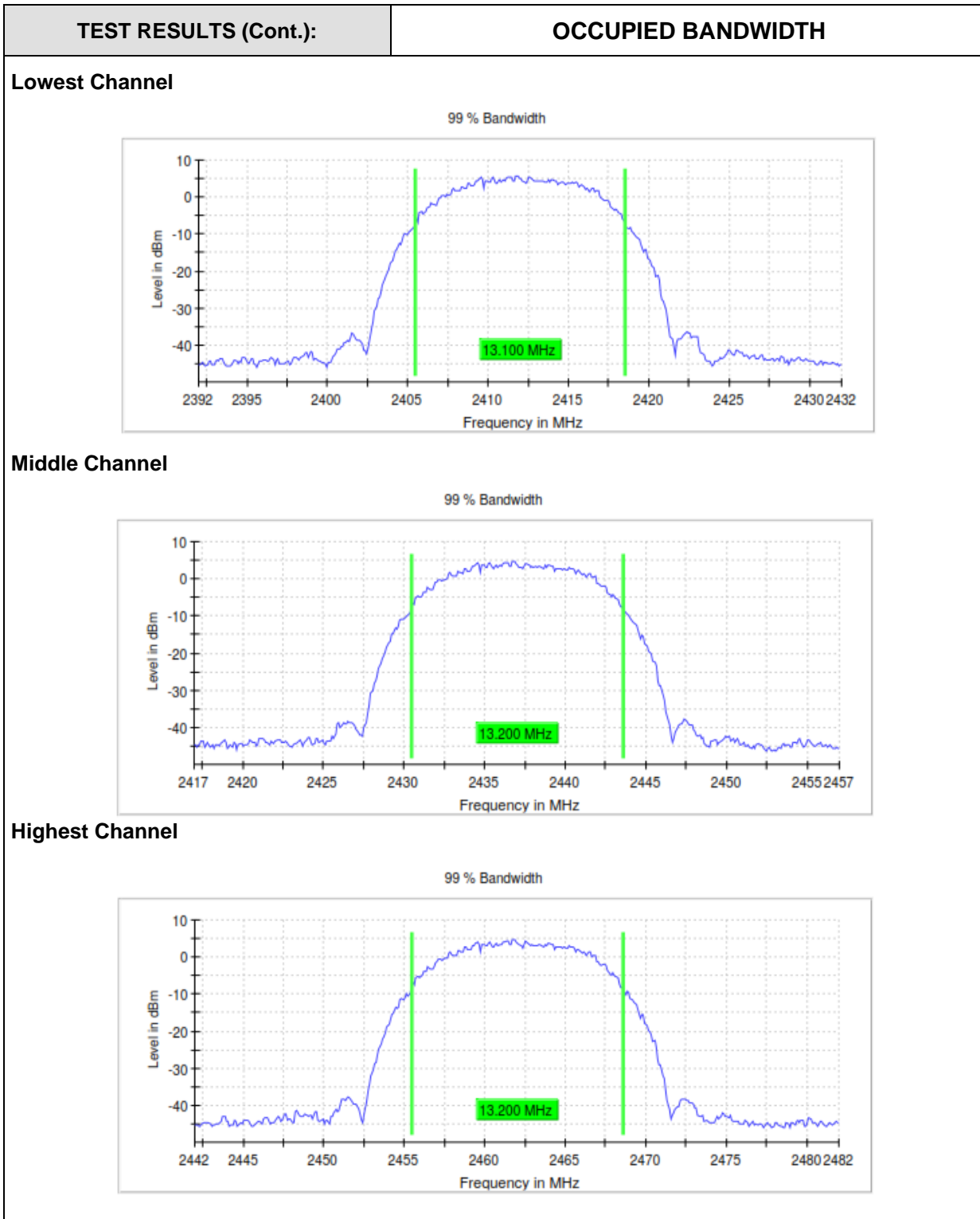
	Lowest frequency 2412 MHz	Middle frequency 2437 MHz	Highest frequency 2462 MHz
6dB Bandwidth (MHz)	9.90	10.40	10.15
Occupied bandwidth (MHz)	13.10	13.20	13.20

6dB Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	100.000 kHz	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz	300.000 kHz
Sweep Points	800	800	800
Sweep time	56.836 us	56.836 us	56.836 us
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
Sweep Count	100	100	100
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	FFT	FFT	FFT
Preamplifier	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.50 dB	0.50 dB	0.50 dB
Run	15 / max. 150	20 / max. 150	29 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable	0.33 dB	0.27 dB	0.04 dB

TEST RESULTS (Cont.):	6 dB BANDWIDTH
Lowest Channel	<p>6 dB Bandwidth</p> 
Middle Channel	<p>6 dB Bandwidth</p> 
Highest Channel	<p>6 dB Bandwidth</p> 

TEST RESULTS (Cont.):			
OBW Measurement			
Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	200.000 kHz	200.000 kHz	200.000 kHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
Sweep Points	400	400	400
Sweep time	28.447 us	28.447 us	28.447 us
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
Sweep Count	100	100	100
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	FFT	FFT	FFT
Preamp	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.30 dB	0.30 dB	0.30 dB
Run	15 / max. 150	16 / max. 150	16 / max. 150
Stable	3 / 3	3 / 3	3 / 3
Max Stable	0.04 dB	0.04 dB	0.27 dB



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (b mode SISO)
TEST RESULTS:	PASS

Type of equipment: Non-adaptive Equipment.

Radio B (SISO)

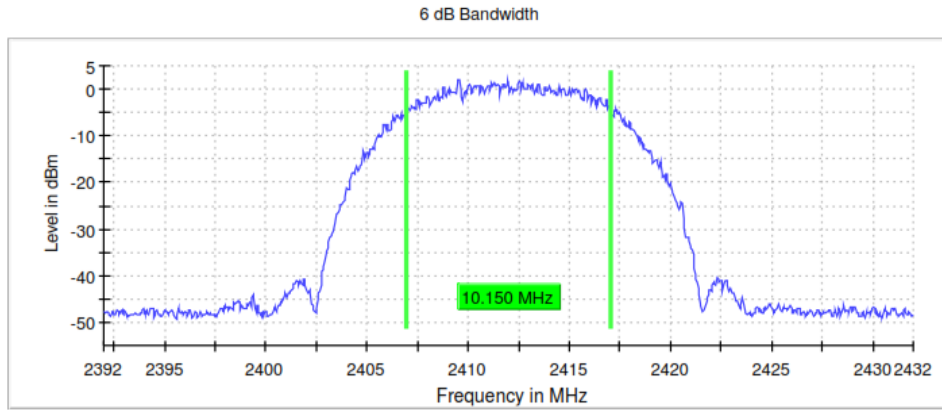
	Lowest frequency 2412 MHz	Middle frequency 2437 MHz	Highest frequency 2462 MHz
6dB Bandwidth (MHz)	10.15	9.75	9.5
Occupied bandwidth (MHz)	13.10	13.20	13.10

6dB Measurement

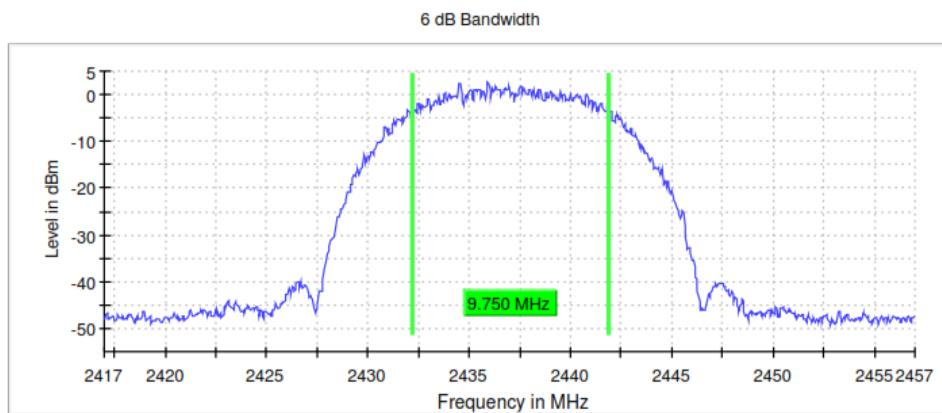
Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	100.000 kHz	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz	300.000 kHz
Sweep Points	800	800	800
Sweep time	56.836 us	56.836 us	56.836 us
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
Sweep Count	100	100	100
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	FFT	FFT	FFT
Preamp	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.50 dB	0.50 dB	0.50 dB
Run	30 / max. 150	20 / max. 150	24 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable	0.06 dB	0.05 dB	0.05 dB

TEST RESULTS (Cont.):	6 dB BANDWIDTH
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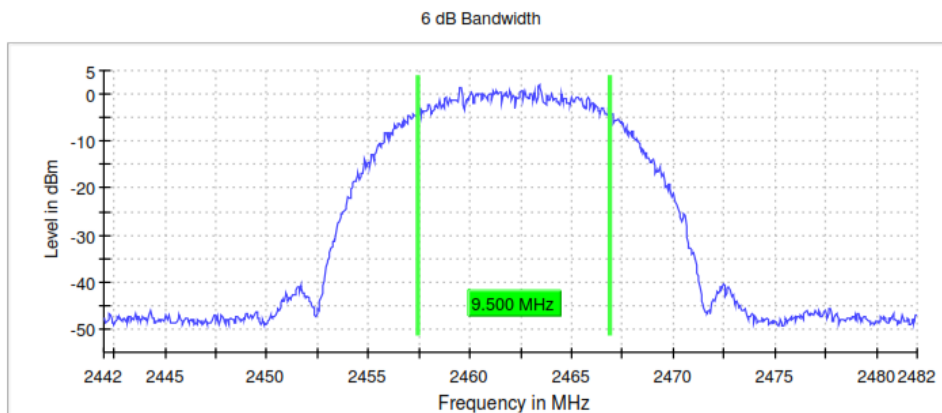
Lowest Channel



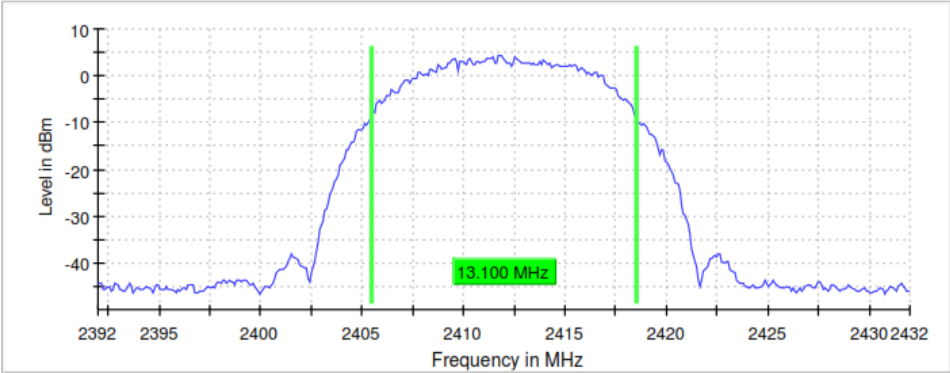
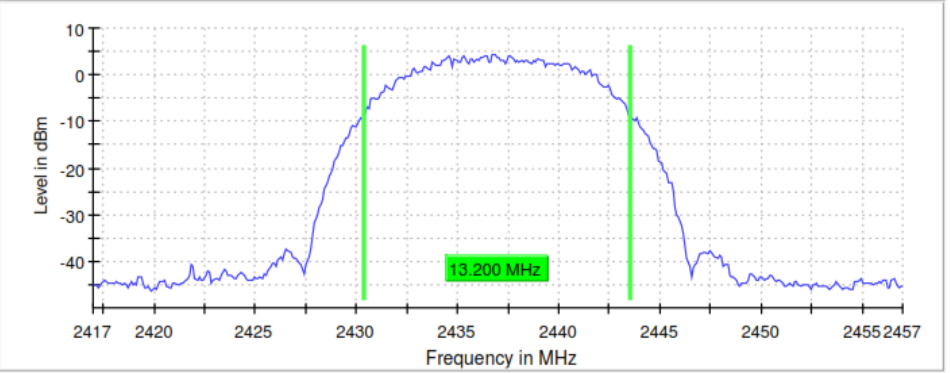
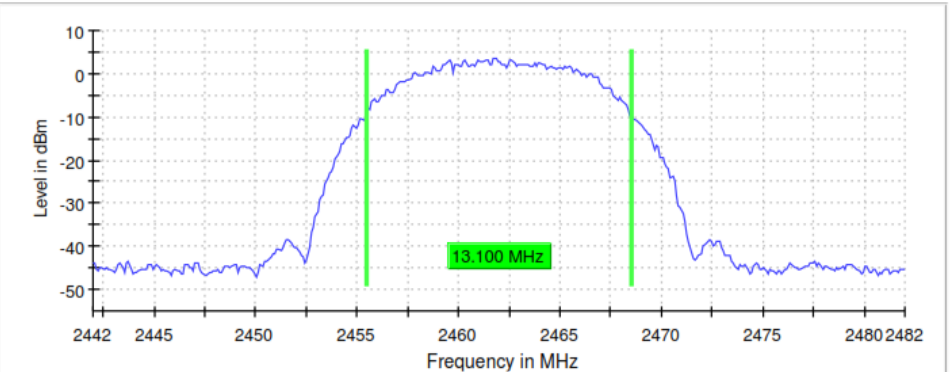
Middle Channel



Highest Channel



TEST RESULTS (Cont.):			
OBW Measurement			
Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	200.000 kHz	200.000 kHz	200.000 kHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
Sweep Points	400	400	400
Sweep time	28.447 us	28.447 us	28.477 us
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
Sweep Count	100	100	100
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	FFT	FFT	FFT
Preamplifier	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.30 dB	0.30 dB	0.30 dB
Run	13 / max. 150	19 / max. 150	15 / max. 150
Stable	3 / 3	3 / 3	3 / 3
Max Stable	0.12 dB	0.16 dB	0.29 dB

TEST RESULTS (Cont.):	OCCUPIED BANDWIDTH
<p>Lowest Channel</p> 	<p>Middle Channel</p> 
	<p>Highest Channel</p> 

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (b mode MIMO)
TEST RESULTS:	PASS

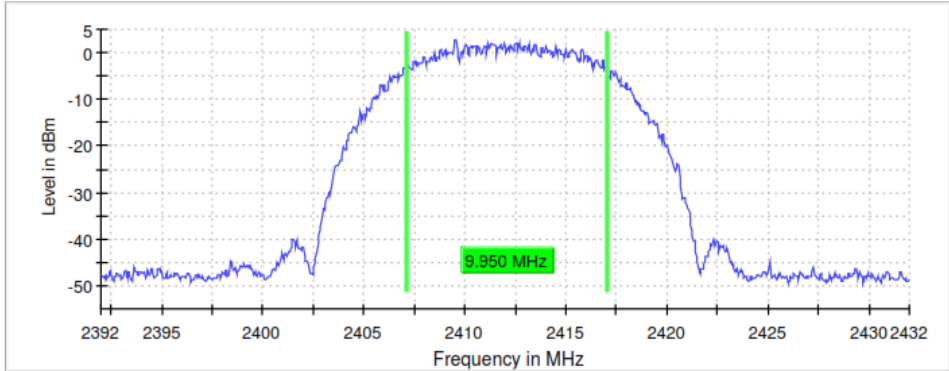
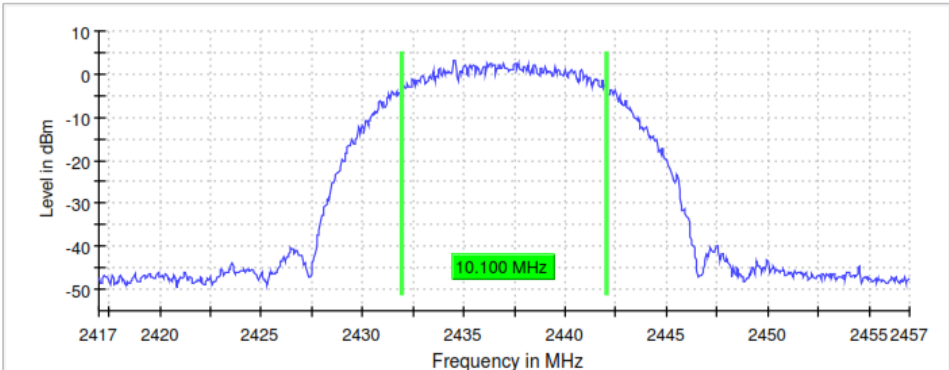
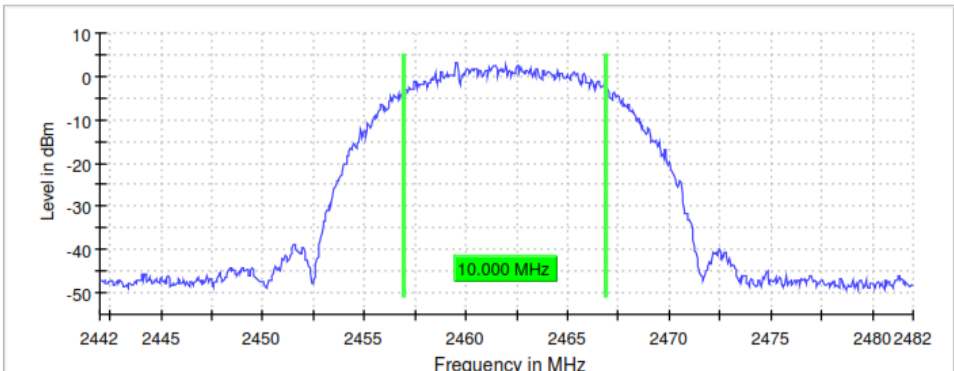
Type of equipment: Non-adaptive Equipment.

Radio A + B (MIMO)

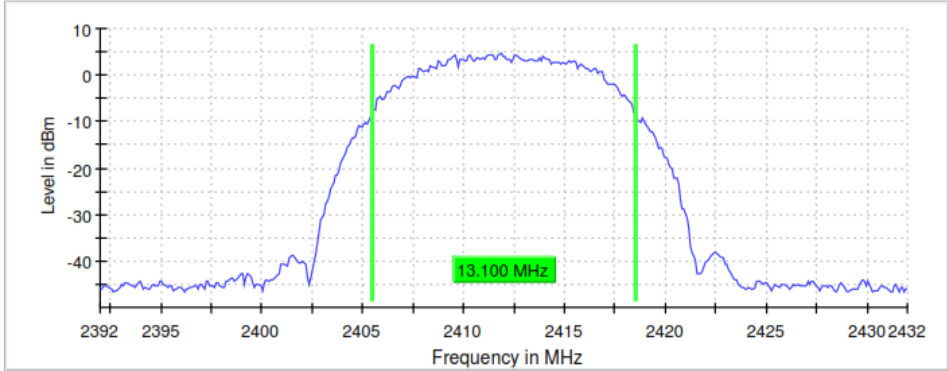
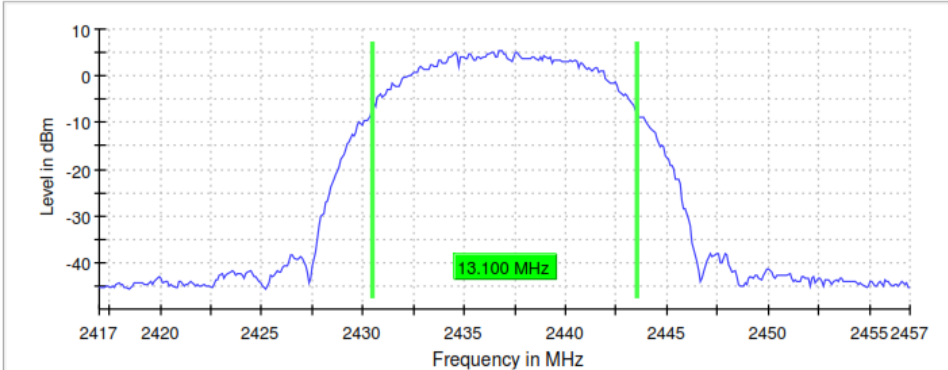
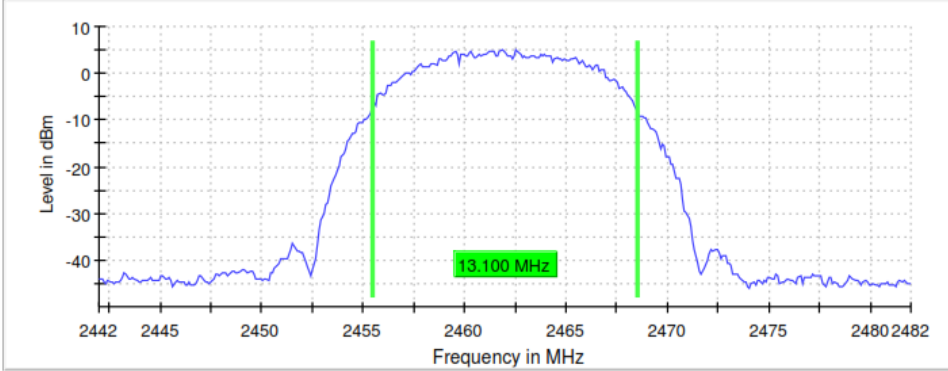
	Lowest frequency 2412 MHz	Middle frequency 2437 MHz	Highest frequency 2462 MHz
6dB Bandwidth (MHz)	9.95	10.10	10.00
Occupied bandwidth (MHz)	13.10	13.10	13.10

6dB Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	100.000 kHz	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz	300.000 kHz
Sweep Points	800	800	800
Sweep time	56.836 us	56.836 us	56.836 us
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
Sweep Count	100	100	100
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	FFT	FFT	FFT
Preamplifier	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.50 dB	0.50 dB	0.50 dB
Run	24 / max. 150	24 / max. 150	23 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable	0.29 dB	0.23 dB	0.16 dB

TEST RESULTS (Cont.):	6 dB BANDWIDTH
<p>Lowest Channel</p> 	<p>Middle Channel</p> 
	<p>Highest Channel</p> 

TEST RESULTS (Cont.):			
OBW Measurement			
Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	200.000 kHz	200.000 kHz	200.000 kHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
Sweep Points	400	400	400
Sweep time	28.477 us	28.477 us	28.477 us
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
Sweep Count	100	100	100
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	FFT	FFT	FFT
Preamplifier	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.30 dB	0.30 dB	0.30 dB
Run	11 / max. 150	20 / max. 150	26 / max. 150
Stable	3 / 3	3 / 3	3 / 3
Max Stable	0.09 dB	0.17 dB	0.09 dB

TEST RESULTS (Cont.):	OCCUPIED BANDWIDTH
Lowest Channel	<p>99 % Bandwidth</p>  <p>Level in dBm</p> <p>Frequency in MHz</p> <p>13.100 MHz</p>
Middle Channel	<p>99 % Bandwidth</p>  <p>Level in dBm</p> <p>Frequency in MHz</p> <p>13.100 MHz</p>
Highest Channel	<p>99 % Bandwidth</p>  <p>Level in dBm</p> <p>Frequency in MHz</p> <p>13.100 MHz</p>

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 (g mode SISO)
TEST RESULTS:	PASS

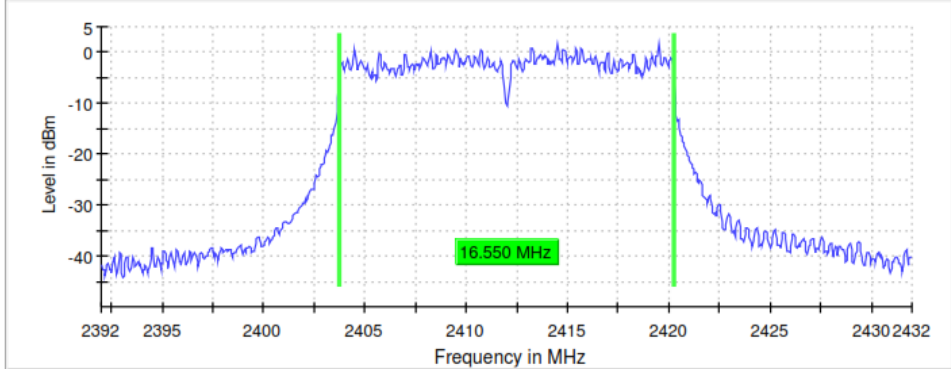
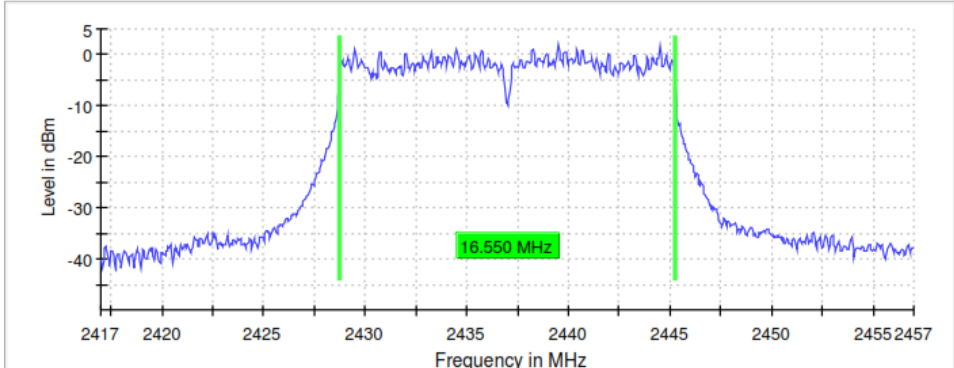
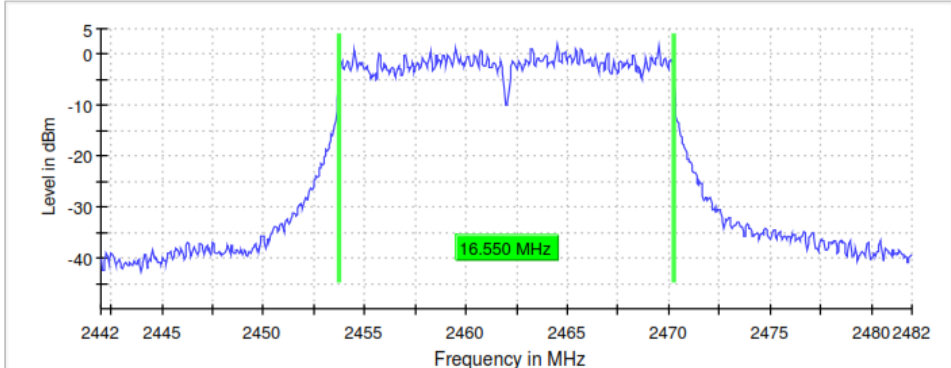
Type of equipment: Non-adaptive Equipment.

Radio A (SISO)

	Lowest frequency 2412 MHz	Middle frequency 2437 MHz	Highest frequency 2462 MHz
6dB bandwidth (MHz)	16.55	16.55	16.55
Occupied bandwidth (MHz)	16.60	16.50	16.50

6dB Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	100.000 kHz	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz	300.000 kHz
Sweep Points	800	800	800
Sweep time	56.836 us	56.836 us	56.836 us
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
Sweep Count	100	100	100
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	FFT	FFT	FFT
Preamplifier	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.50 dB	0.50 dB	0.50 dB
Run	49 / max. 150	47 / max. 150	53 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable	0.27 dB	0.31 dB	0.00 dB

TEST RESULTS (Cont.):	6 dB BANDWIDTH
Lowest Channel	<p>6 dB Bandwidth</p> 
Middle Channel	<p>6 dB Bandwidth</p> 
Highest Channel	<p>6 dB Bandwidth</p> 

TEST RESULTS (Cont.):			
OBW Measurement			
Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	200.000 kHz	200.000 kHz	200.000 kHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
Sweep Points	400	400	400
Sweep time	28.477 us	28.477 us	28.477 us
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
Sweep Count	100	100	100
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	FFT	FFT	FFT
Preamplifier	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.30 dB	0.30 dB	0.30 dB
Run	68 / max. 150	30 / max. 150	42 / max. 150
Stable	3 / 3	3 / 3	3 / 3
Max Stable	0.26 dB	0.23 dB	0.00 dB

TEST RESULTS (Cont.):	OCCUPIED BANDWIDTH
Lowest Channel	<p style="text-align: center;">99 % Bandwidth</p>
Middle Channel	<p style="text-align: center;">99 % Bandwidth</p>
Highest Channel	<p style="text-align: center;">99 % Bandwidth</p>

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 (g mode SISO)
TEST RESULTS:	PASS

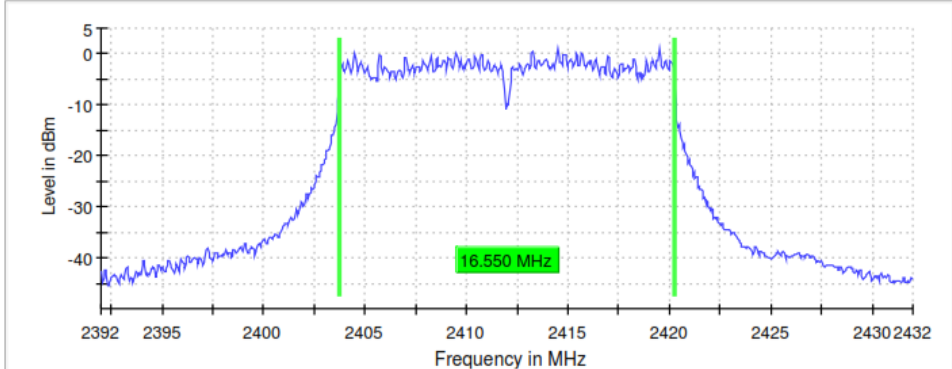
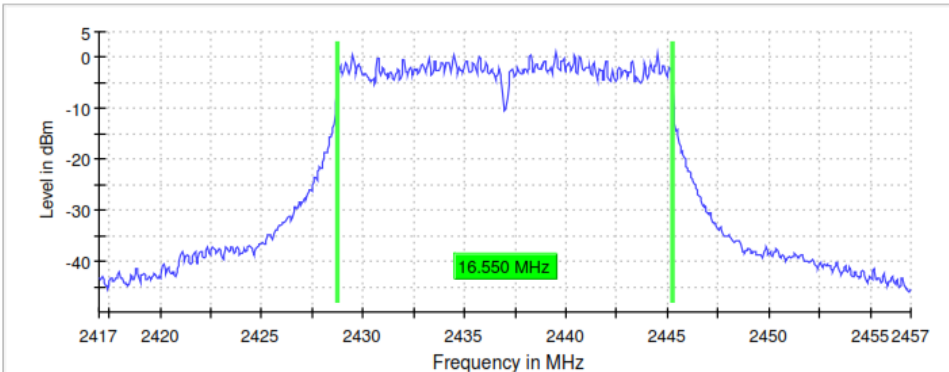
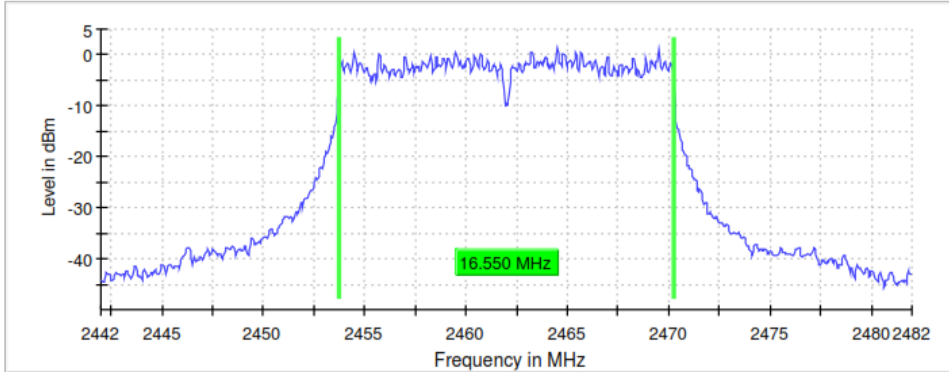
Type of equipment: Non-adaptive Equipment.

Radio B (SISO)

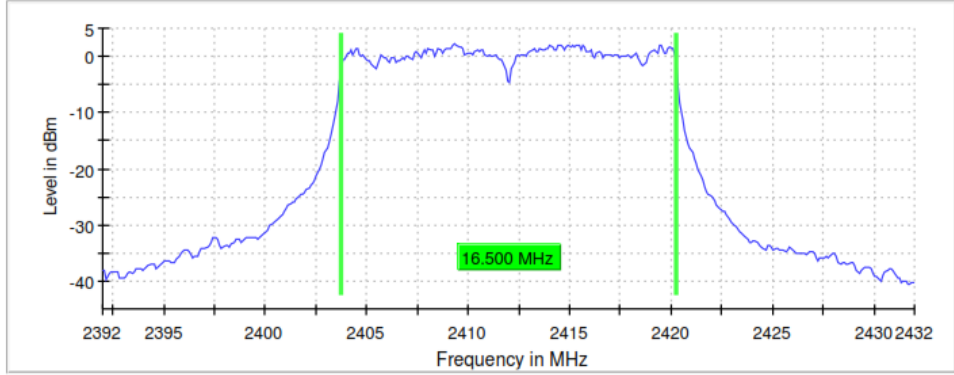
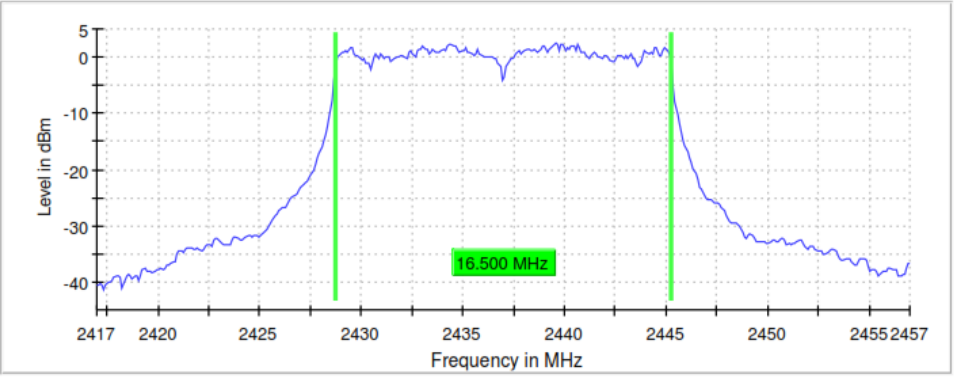
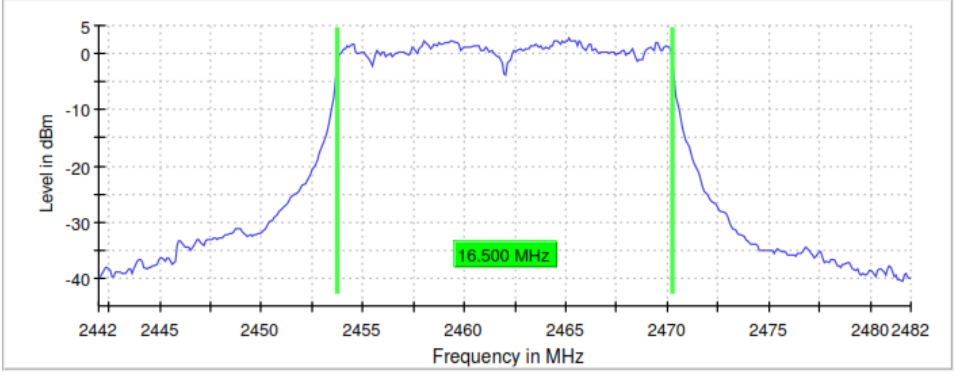
	Lowest frequency 2412 MHz	Middle frequency 2437 MHz	Highest frequency 2462 MHz
6dB bandwidth (MHz)	16.55	16.55	16.55
Occupied bandwidth (MHz)	16.50	16.50	16.50

6dB Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	100.000 kHz	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz	300.000 kHz
Sweep Points	800	800	800
Sweep time	56.836 us	56.836 us	56.836 us
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
Sweep Count	100	100	100
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	FFT	FFT	FFT
Preamplifier	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.50 dB	0.50 dB	0.50 dB
Run	71 / max. 150	37 / max. 150	59 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable	0.08 dB	0.19 dB	0.25 dB

TEST RESULTS (Cont.):	6 dB BANDWIDTH
Lowest Channel	<p data-bbox="747 378 876 409">6 dB Bandwidth</p>  <p data-bbox="373 441 406 630">Level in dBm</p> <p data-bbox="763 756 909 787">Frequency in MHz</p> <p data-bbox="787 661 885 693">16.550 MHz</p>
Middle Channel	<p data-bbox="747 850 876 882">6 dB Bandwidth</p>  <p data-bbox="370 913 402 1102">Level in dBm</p> <p data-bbox="763 1228 909 1260">Frequency in MHz</p> <p data-bbox="787 1134 885 1165">16.550 MHz</p>
Highest Channel	<p data-bbox="747 1291 876 1323">6 dB Bandwidth</p>  <p data-bbox="370 1354 402 1543">Level in dBm</p> <p data-bbox="763 1669 909 1701">Frequency in MHz</p> <p data-bbox="787 1575 885 1606">16.550 MHz</p>

TEST RESULTS (Cont.):			
OBW Measurement			
Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	200.000 kHz	200.000 kHz	200.000 kHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
Sweep Points	400	200	200
Sweep time	28.477 us	28.477 us	28.477 us
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
Sweep Count	100	100	100
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	FFT	FFT	FFT
Preamplifier	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.30 dB	0.30 dB	0.30 dB
Run	43 / max. 150	53 / max. 150	54 / max. 150
Stable	3 / 3	3 / 3	3 / 3
Max Stable	0.23 dB	0.16 dB	0.00 dB

TEST RESULTS (Cont.):	OCCUPIED BANDWIDTH
Lowest Channel	<p>99 % Bandwidth</p> 
Middle Channel	<p>99 % Bandwidth</p> 
Highest Channel	<p>99 % Bandwidth</p> 

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 (g mode MIMO)
TEST RESULTS:	PASS

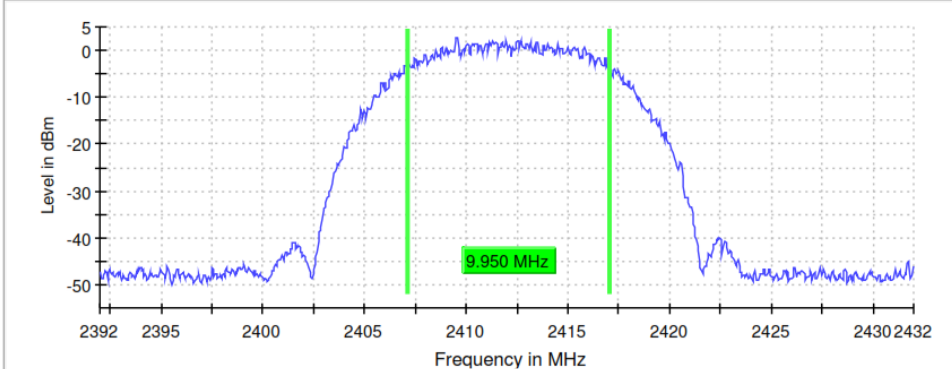
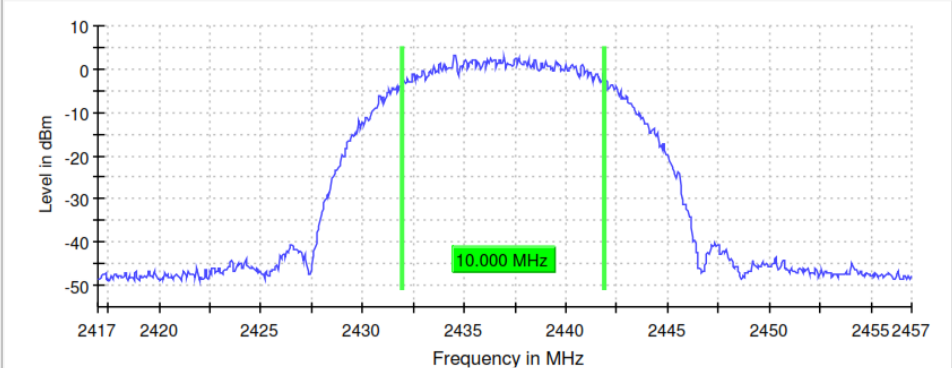
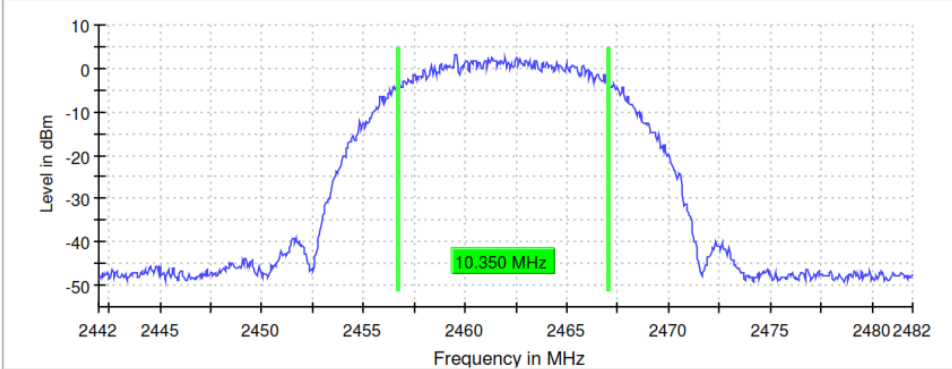
Type of equipment: Non-adaptive Equipment.

Radio A + B (MIMO)

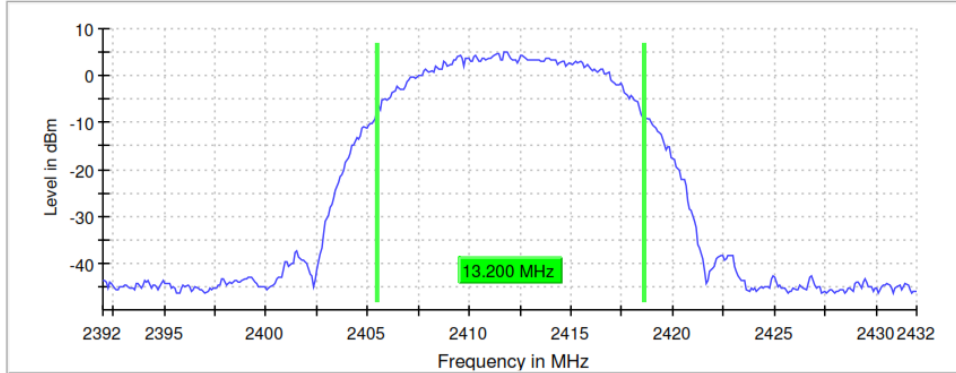
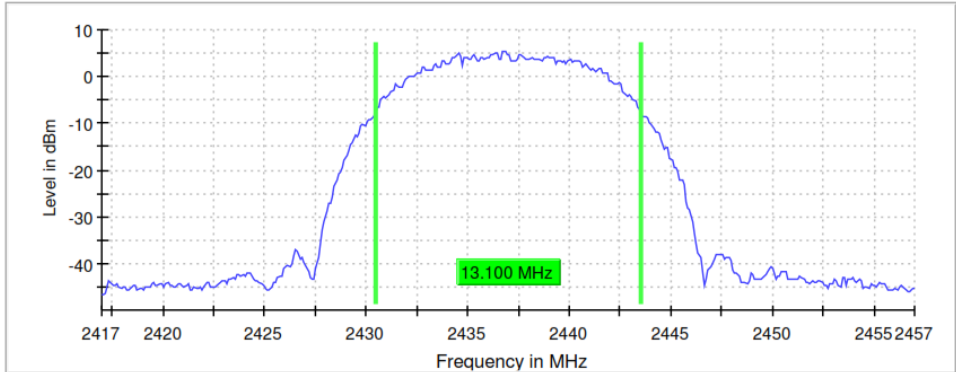
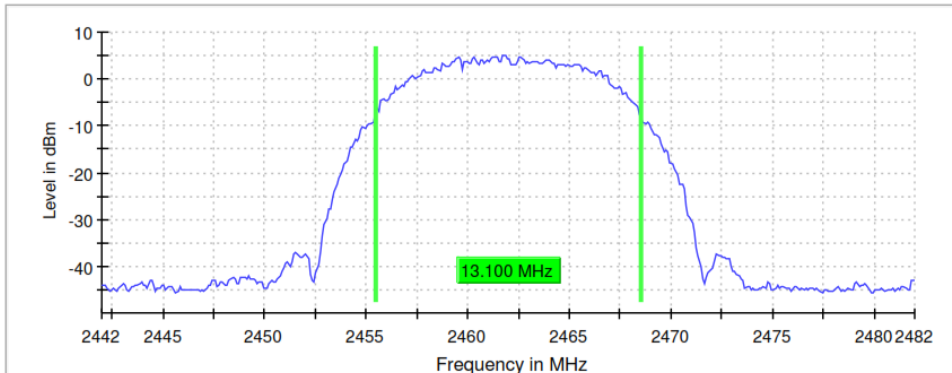
	Lowest frequency 2412 MHz	Middle frequency 2437 MHz	Highest frequency 2462 MHz
6dB bandwidth (MHz)	9.95	10.00	10.35
Occupied bandwidth (MHz)	13.20	13.10	13.10

6dB Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	100.000 kHz	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz	300.000 kHz
Sweep Points	800	800	800
Sweep time	56.836 us	56.836 us	56.836 us
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
Sweep Count	100	100	100
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	FFT	FFT	FFT
Preamplifier	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.50 dB	0.50 dB	0.50 dB
Run	13 / max. 150	21 / max. 150	18 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable	0.46 dB	0.08 dB	0.08 dB

TEST RESULTS (Cont.):	6 dB BANDWIDTH
Lowest Channel	<p data-bbox="755 378 868 399">6 dB Bandwidth</p>  <p data-bbox="803 661 885 682">9.950 MHz</p>
Middle Channel	<p data-bbox="755 850 868 871">6 dB Bandwidth</p>  <p data-bbox="803 1134 885 1155">10.000 MHz</p>
Highest Channel	<p data-bbox="755 1323 868 1344">6 dB Bandwidth</p>  <p data-bbox="803 1606 885 1627">10.350 MHz</p>

TEST RESULTS (Cont.):			
OBW Measurement			
Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	200.000 kHz	200.000 kHz	200.000 kHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
Sweep Points	400	400	400
Sweep time	28.477 us	28.477 us	28.477 us
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
Sweep Count	100	100	100
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	FFT	FFT	FFT
Preamp	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.30 dB	0.30 dB	0.30 dB
Run	15 / max. 150	16 / max. 150	24 / max. 150
Stable	3 / 3	3 / 3	3 / 3
Max Stable	0.08 dB	0.10 dB	0.16 dB

TEST RESULTS (Cont.):	OCCUPIED BANDWIDTH
Lowest Channel	<p>99 % Bandwidth</p>  <p>13.200 MHz</p>
Middle Channel	<p>99 % Bandwidth</p>  <p>13.100 MHz</p>
Highest Channel	<p>99 % Bandwidth</p>  <p>13.100 MHz</p>

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (n20 mode SISO)
TEST RESULTS:	PASS

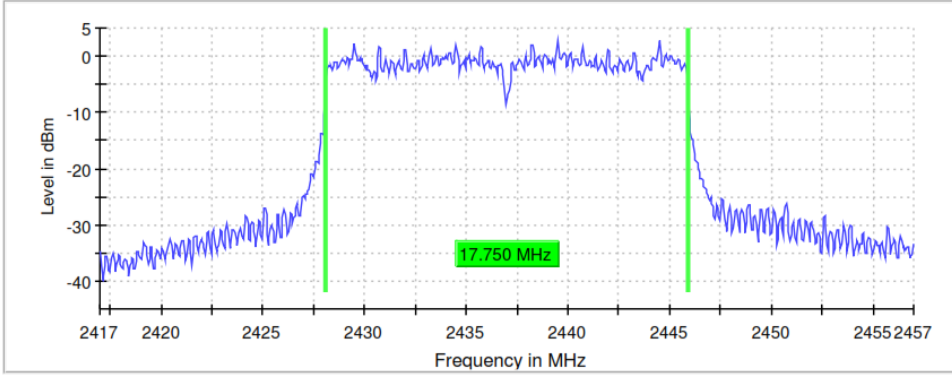
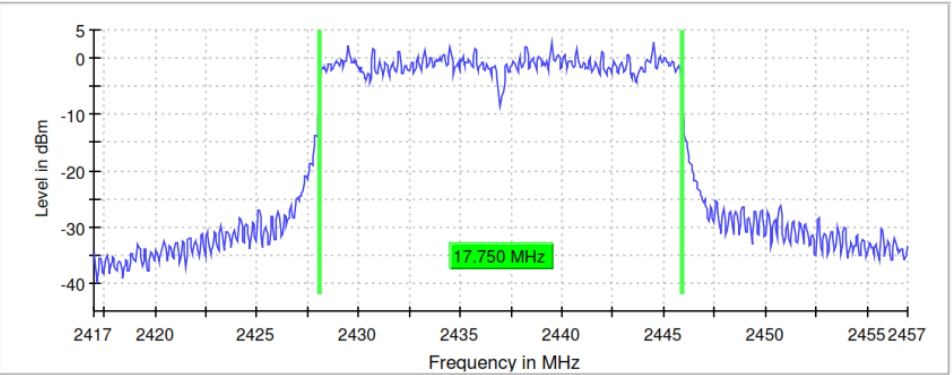
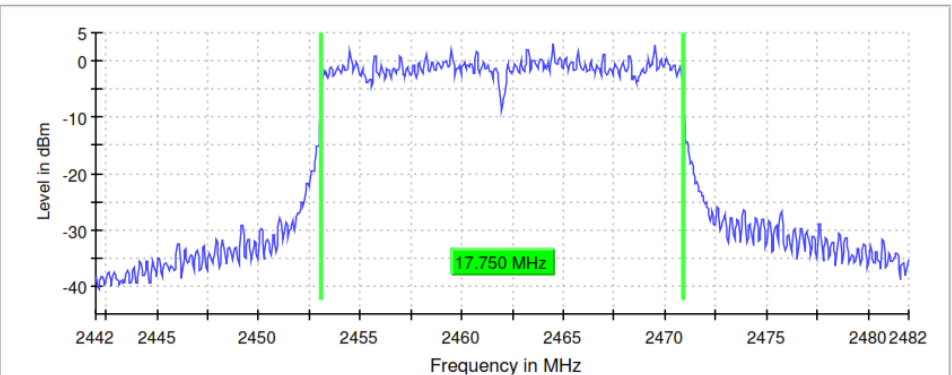
Type of equipment: Non-adaptive Equipment.

Radio A (SISO)

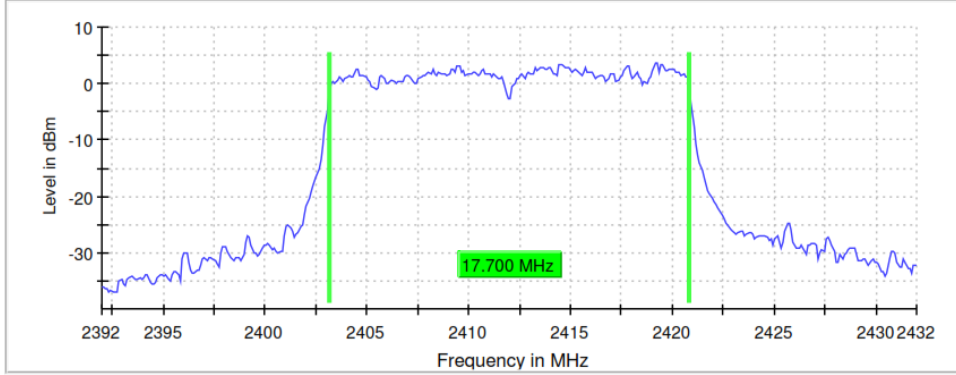
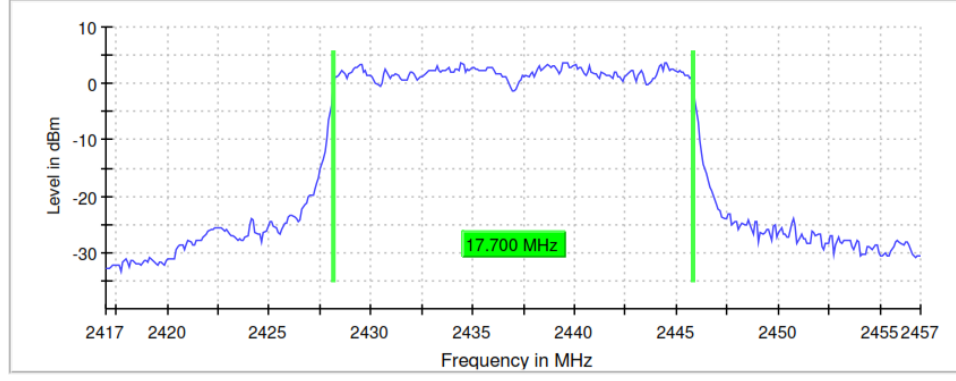
	Lowest frequency 2412 MHz	Middle frequency 2437 MHz	Highest frequency 2462 MHz
6dB bandwidth (MHz)	17.75	17.75	17.75
Occupied bandwidth (MHz)	17.70	17.70	17.70

6dB Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	100.000 kHz	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz	300.000 kHz
Sweep Points	800	800	800
Sweep time	56.836 μ s	56.836 μ s	56.836 μ s
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
Sweep Count	100	100	100
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	FFT	FFT	FFT
Preamplifier	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.50 dB	0.50 dB	0.50 dB
Run	52 / max. 150	57 / max. 150	66 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable	0.11 dB	0.30 dB	0.20 dB

TEST RESULTS (Cont.):	6 dB BANDWIDTH
Lowest Channel	<p data-bbox="747 378 876 409">6 dB Bandwidth</p>  <p data-bbox="373 430 406 630">Level in dBm</p> <p data-bbox="763 756 909 787">Frequency in MHz</p> <p data-bbox="787 651 885 682">17.750 MHz</p>
Middle Channel	<p data-bbox="747 850 876 882">6 dB Bandwidth</p>  <p data-bbox="373 903 406 1102">Level in dBm</p> <p data-bbox="763 1228 909 1260">Frequency in MHz</p> <p data-bbox="787 1123 885 1155">17.750 MHz</p>
Highest Channel	<p data-bbox="747 1323 876 1354">6 dB Bandwidth</p>  <p data-bbox="373 1369 406 1568">Level in dBm</p> <p data-bbox="763 1701 909 1732">Frequency in MHz</p> <p data-bbox="787 1596 885 1627">17.750 MHz</p>

TEST RESULTS (Cont.):			
OBW Measurement			
Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	200.000 kHz	200.000 kHz	200.000 kHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
Sweep Points	400	400	400
Sweep time	28.477 us	28.477 us	28.477 us
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
Sweep Count	100	100	100
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	FFT	FFT	FFT
Preamp	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.30 dB	0.30 dB	0.30 dB
Run	58 / max. 150	65 / max. 150	59 / max. 150
Stable	3 / 3	3 / 3	3 / 3
Max Stable	0.26 dB	0.30 dB	0.00 dB

TEST RESULTS (Cont.):	OCCUPIED BANDWIDTH
Lowest Channel	
<p style="text-align: center;">99 % Bandwidth</p> 	
Middle Channel	
<p style="text-align: center;">99 % Bandwidth</p> 	
Highest Channel	
<p style="text-align: center;">99 % Bandwidth</p> 