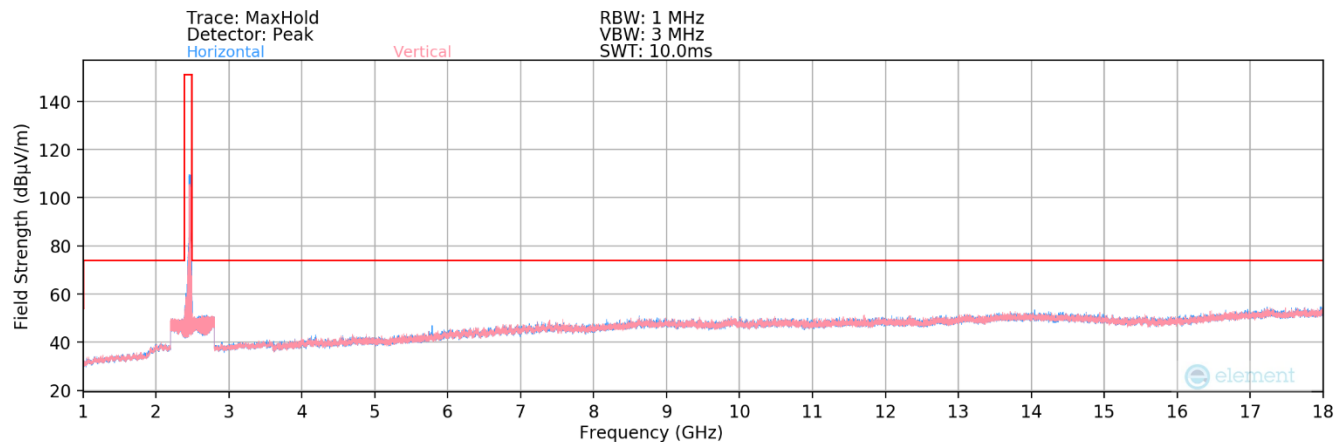
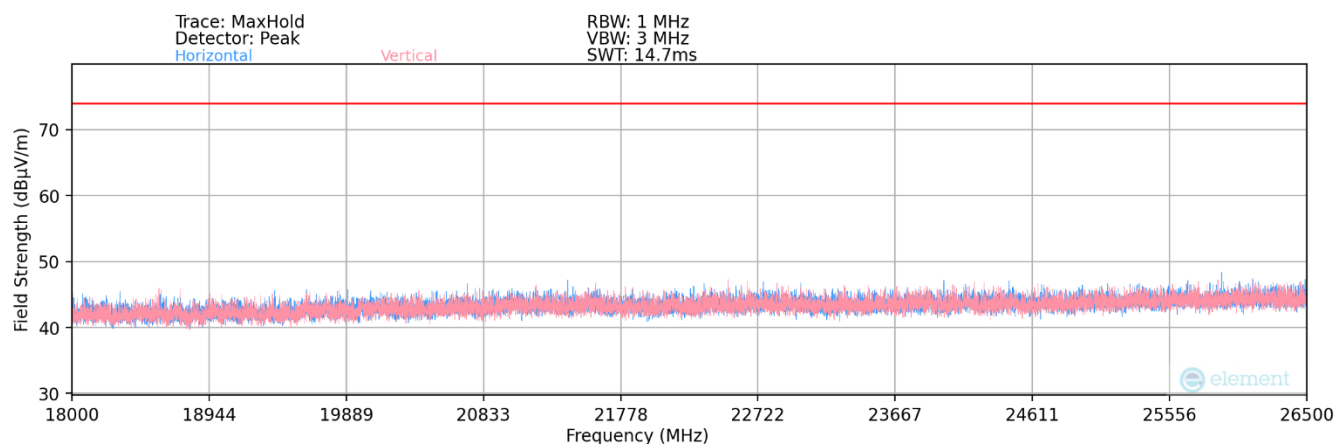




Plot 7-69. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 242 Tones – Ch. 11)



Plot 7-70. Radiated Spurious Plot above 18GHz MIMO (802.11ax OFDMA – 242 Tones)

FCC ID: A3LSMF966U IC: 649E-SMF966W	MEASUREMENT REPORT		Approved by: Technical Manager
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MIMO Radiated Spurious Emission Measurements

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	4
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4824.00	Avg	V	-	-	-77.99	2.60	31.61	53.98	-22.37
4824.00	Peak	V	-	-	-65.66	2.60	43.94	73.98	-30.04
12060.00	Avg	V	-	-	-80.65	12.87	39.22	53.98	-14.76
12060.00	Peak	V	-	-	-68.49	12.87	51.38	73.98	-22.60

Table 7-12. Radiated Measurements MIMO (26 Tones)

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	4
Distance of Measurements:	3 Meters
Operating Frequency:	2437MHz
Channel:	6

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	V	303	19	-77.26	3.08	32.82	53.98	-21.16
4874.00	Peak	V	303	19	-63.97	3.08	46.11	73.98	-27.87
7311.00	Avg	V	-	-	-78.84	9.38	37.54	53.98	-16.44
7311.00	Peak	V	-	-	-65.92	9.38	50.46	73.98	-23.52
12185.00	Avg	V	-	-	-81.42	13.11	38.69	53.98	-15.28
12185.00	Peak	V	-	-	-69.35	13.11	50.76	73.98	-23.21

Table 7-13. Radiated Measurements MIMO (26 Tones)

FCC ID: A3LSMF966U IC: 649E-SMF966W	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502210015-19.A3L	Test Dates: 02/24/2025 - 04/11/2025	EUT Type: Portable Handset	Page 63 of 70

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	Avg	V	252	319	-77.15	2.81	32.66	53.98	-21.32
4924.00	Peak	V	252	319	-64.49	2.81	45.32	73.98	-28.66
7386.00	Avg	V	245	320	-76.83	9.17	39.34	53.98	-14.64
7386.00	Peak	V	245	320	-63.34	9.17	52.83	73.98	-21.15
12310.00	Avg	V	-	-	-80.97	13.44	39.47	53.98	-14.51
12310.00	Peak	V	-	-	-69.01	13.44	51.43	73.98	-22.55

Table 7-14. Radiated Measurements MIMO (26 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4824.00	Avg	V	-	-	-78.23	2.60	31.37	53.98	-22.61
4824.00	Peak	V	-	-	-66.24	2.60	43.36	73.98	-30.62
12060.00	Avg	V	-	-	-80.65	12.87	39.22	53.98	-14.76
12060.00	Peak	V	-	-	-68.29	12.87	51.58	73.98	-22.40

Table 7-15. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMF966U IC: 649E-SMF966W	MEASUREMENT REPORT		Approved by: Technical Manager
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Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 6

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	V	-	-	-78.21	3.08	31.87	53.98	-22.11
4874.00	Peak	V	-	-	-66.07	3.08	44.01	73.98	-29.97
7311.00	Avg	V	-	-	-78.83	9.38	37.55	53.98	-16.43
7311.00	Peak	V	-	-	-66.76	9.38	49.62	73.98	-24.36
12185.00	Avg	V	-	-	-81.43	13.11	38.68	53.98	-15.29
12185.00	Peak	V	-	-	-69.21	13.11	50.90	73.98	-23.07

Table 7-16. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	Avg	V	-	-	-77.54	2.81	32.27	53.98	-21.71
4924.00	Peak	V	-	-	-65.25	2.81	44.56	73.98	-29.42
7386.00	Avg	V	-	-	-77.81	9.17	38.36	53.98	-15.62
7386.00	Peak	V	-	-	-65.14	9.17	51.03	73.98	-22.95
12310.00	Avg	V	-	-	-80.87	13.44	39.57	53.98	-14.41
12310.00	Peak	V	-	-	-68.97	13.44	51.47	73.98	-22.51

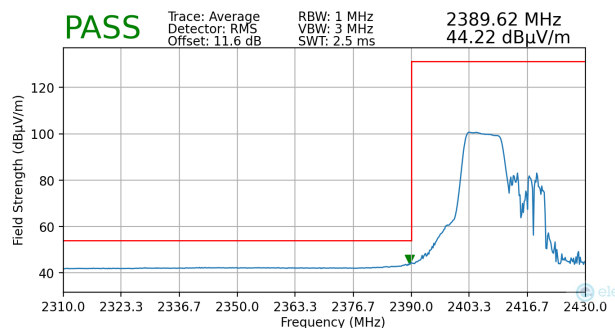
Table 7-17. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMF966U IC: 649E-SMF966W	MEASUREMENT REPORT		Approved by: Technical Manager
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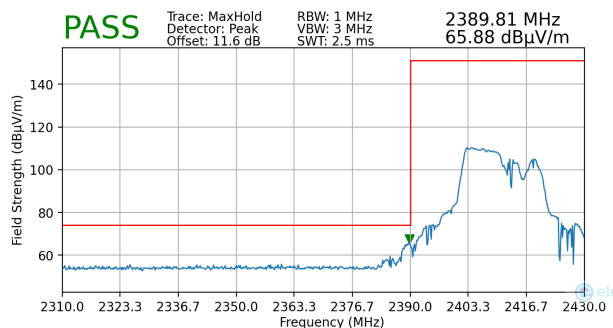
7.7.3 MIMO Radiated Restricted Band Edge Measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode:	802.11be OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1

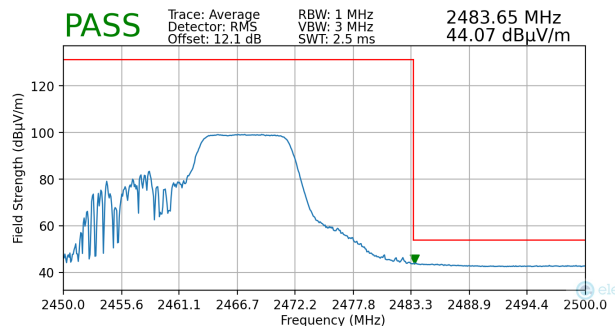


Plot 7-71. Radiated Restricted Lower Band Edge Measurement MIMO (Average – 106 Tones)

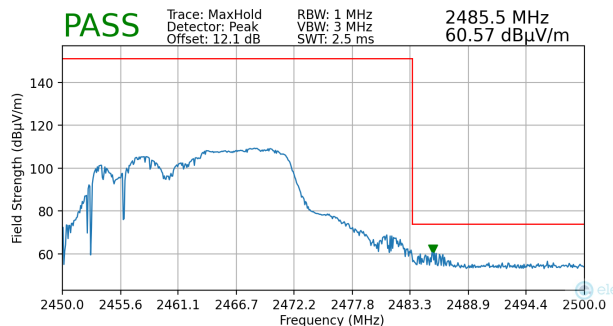


Plot 7-72. Radiated Restricted Lower Band Edge Measurement MIMO (Peak – 106 Tones)

Worst Case Mode:	802.11be OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	54
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11



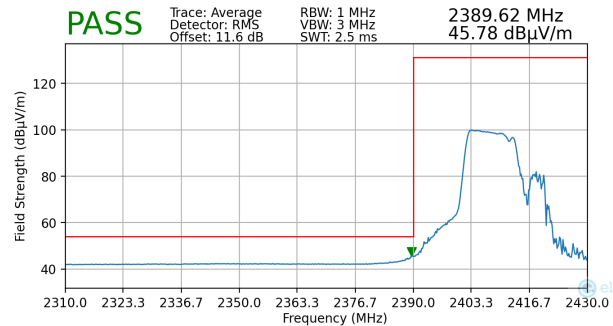
Plot 7-73. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 106 Tones)



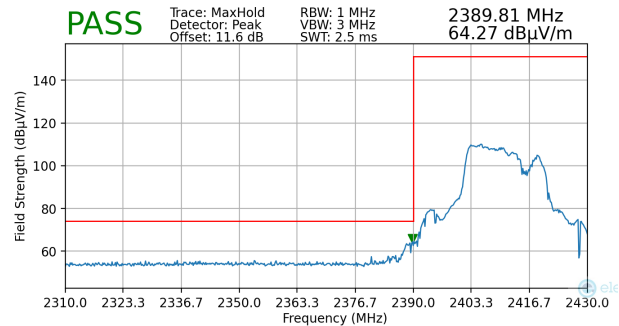
Plot 7-74. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 106 Tones)

FCC ID: A3LSMF966U IC: 649E-SMF966W	MEASUREMENT REPORT		Approved by: Technical Manager
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Worst Case Mode: 802.11be OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 82
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1

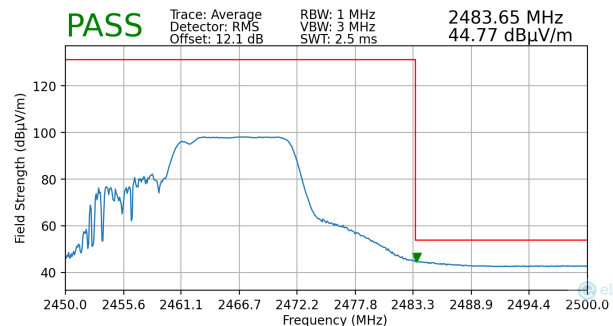


Plot 7-75. Radiated Restricted Lower Band Edge Measurement MIMO (Average – 106+26 Tones)

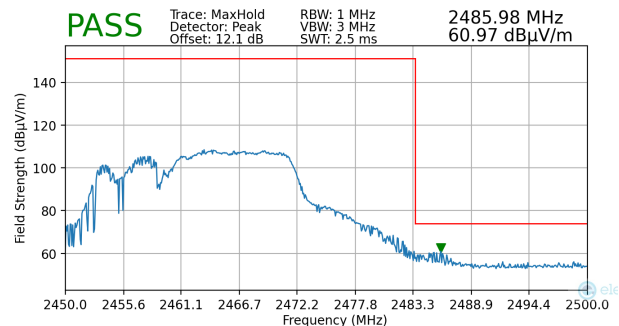


Plot 7-76. Radiated Restricted Lower Band Edge Measurement MIMO (Peak – 106+26 Tones)

Worst Case Mode: 802.11be OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 83
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



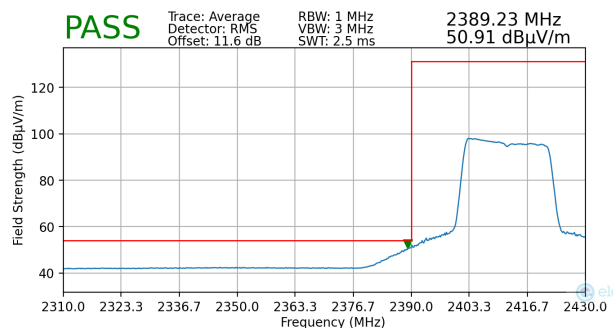
Plot 7-77. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 106+26 Tones)



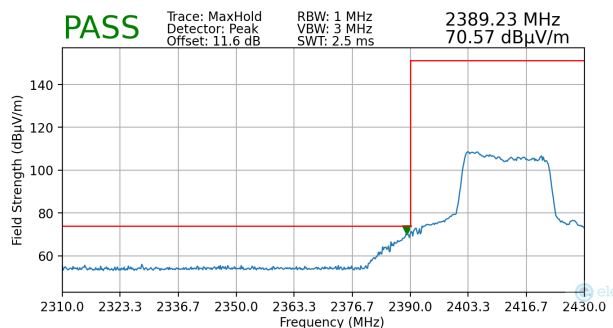
Plot 7-78. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 106+26 Tones)

FCC ID: A3LSMF966U IC: 649E-SMF966W	MEASUREMENT REPORT		Approved by: Technical Manager
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Worst Case Mode:	802.11be OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1

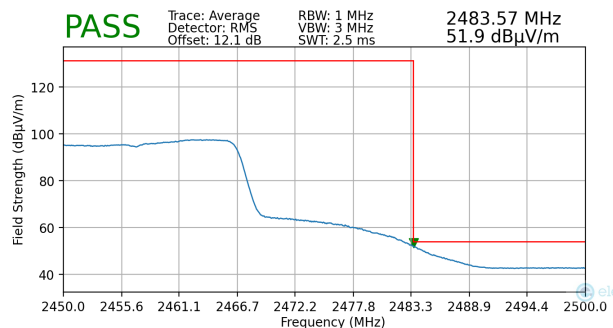


Plot 7-79. Radiated Restricted Lower Band Edge Measurement MIMO (Average – 242 Tones)

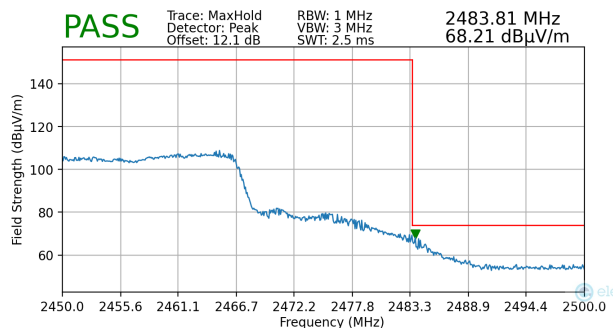


Plot 7-80. Radiated Restricted Lower Band Edge Measurement MIMO (Peak – 242 Tones)

Worst Case Mode:	802.11be OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2457MHz
Channel:	10



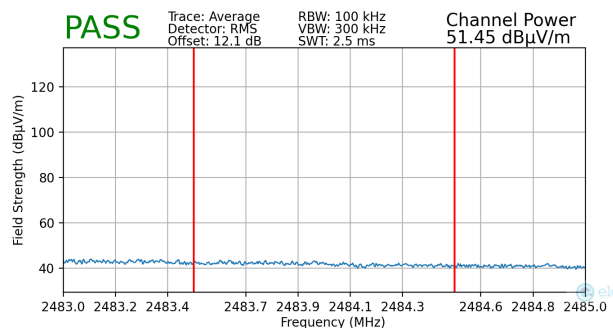
Plot 7-81. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 242 Tones)



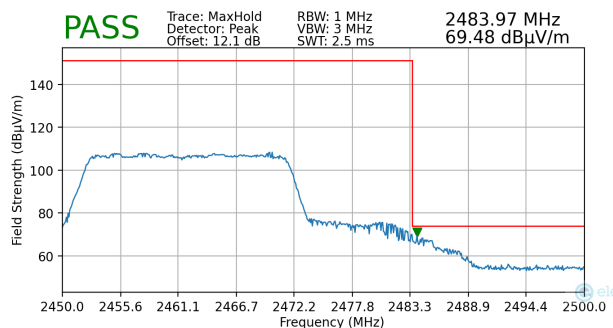
Plot 7-82. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 242 Tones)

FCC ID: A3LSMF966U IC: 649E-SMF966W	MEASUREMENT REPORT		Approved by: Technical Manager
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Worst Case Mode:	802.11be OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11



Plot 7-83. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 242 Tones)



Plot 7-84. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 242 Tones)

FCC ID: A3LSMF966U IC: 649E-SMF966W	MEASUREMENT REPORT		Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMF966U** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and with RSS-247 of the ISED Canada rules.

FCC ID: A3LSMF966U IC: 649E-SMF966W	MEASUREMENT REPORT		Approved by: Technical Manager
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